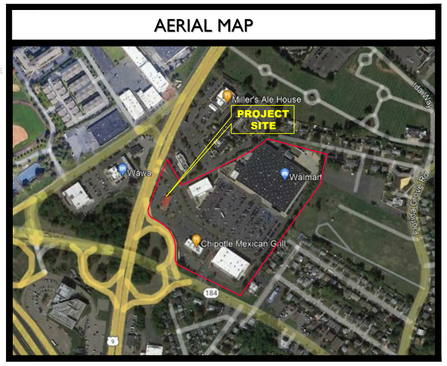
BID SET

FOR

TAX MAP NO. 22

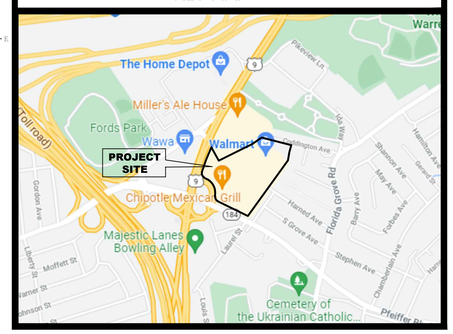
BLOCK 201, LOTS 11-14
TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY, NEW JERSEY

AERIAL MAP



SCALE: 1"=500' (APPROXIMATE)

KEY MAP



SCALE: 1"=1,000' (APPROXIMATE)

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2019\19003093A\Civil Set\Planning Documents\Woodbridge\dwg\19003093A-CVR.dwg, C 1111 SHEET, By:PJC14, 1/07

GENERAL NOTES

1. THE SUBJECT PROPERTY IS KNOWN AS LOTS 11-14, BLOCK 201 LOCATED IN THE TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY.
2. THIS BID SET WAS PREPARED THE LANDLORD SET OF PLANS ENTITLED "PRELIMINARY AND FINAL MAJOR SITE PLANS FOR CHICK-FIL-A WOODBRIDGE BLOCK 201 LOTS 11-14 LOCATED IN THE TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY" PREPARED BY MENLO ENGINEERING ASSOCIATES DATED MARCH 30, 2020 AND REVISED THROUGH MAY 20, 2021.
3. THE HORIZONTAL DATUM IS RELATIVE TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM AND ADJUSTED TO NAD1983. THE VERTICAL DATUM IS RELATIVE TO NAVD 1988.
4. THIS SET OF PLANS IS NOT DEPICTING ENVIRONMENTAL CONDITIONS OR A CERTIFICATION/WARRANTY REGARDING THE PRESENCE OR ABSENCE OF ENVIRONMENTALLY IMPACTED SITE CONDITIONS, COLLIER ENGINEERING & DESIGN HAS PERFORMED NO EXPLORATORY OR TESTING SERVICES, INTERPRETATIONS, CONCLUSIONS OR OTHER SITE ENVIRONMENTAL SERVICES RELATED TO THE DETERMINATION OF THE POTENTIAL FOR CHEMICAL, TOXIC, RADIOACTIVE OR OTHER TYPE OF CONTAMINANTS AFFECTING THE PROPERTY AND THE UNDERSIGNED PROFESSIONAL IS NOT QUALIFIED TO DETERMINE THE EXISTENCE OF SAME. SHOULD ENVIRONMENTAL CONTAMINATION OR WASTE BE DISCOVERED, THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LAWS AND REGULATIONS.
5. THIS IS A BID SET AND UNLESS SPECIFICALLY NOTED ELSEWHERE HEREON, IS NOT A SURVEY NOR SHALL IT BE USED FOR CONSTRUCTION.
6. DO NOT SCALE DRAWINGS AS THEY PERTAIN TO ADJACENT AND SURROUNDING PHYSICAL CONDITIONS, BUILDINGS, STRUCTURES, ETC. THEY ARE SCHEMATIC ONLY, EXCEPT WHERE DIMENSIONS ARE SHOWN THERETO.
7. THE CONTRACTOR IS RESPONSIBLE FOR PROJECT SAFETY, INCLUDING PROVISION OF ALL APPROPRIATE SAFETY DEVICES AND TRAINING REQUIRED.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY PRE-CONSTRUCTION MEETING AND INSPECTIONS.
9. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CALL 811 TO REQUEST A UTILITY MARKOUT.

SITE NOTES

1. BUILDING FOOTPRINT AND CANOPY DIMENSIONS SHOWN HEREON ARE APPROXIMATE. FINAL BUILDING FOOTPRINT AND CANOPY DIMENSIONS SHALL BE FURNISHED ON THE INDIVIDUAL ARCHITECTURAL PLANS AT THE TIME OF APPLICATION FOR A BUILDING PERMIT. ALL STRUCTURES SHALL CONFORM TO THE APPROVED BULK ZONING REQUIREMENTS.
2. CURB RAMPS ARE TO BE CONSTRUCTED FLUSH WITH THE FINISHED PAVEMENT SURFACE. ACCESSIBLE CURB RAMPS INSTALLED WITHIN THE PUBLIC RIGHT OF WAY ARE TO HAVE DETECTABLE WARNING SURFACES COMPLIANT WITH FEDERAL ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT OF WAY.
3. TRAFFIC SIGNAGE AND STRIPING SHALL CORRESPOND TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
4. REFUSE AND RECYCLABLES SHALL BE STORED WITHIN WITHIN OUTSIDE SCREENED TRASH ENCLOSURE AS NOTED ON THE PLANS, AND PICKED UP BY PRIVATE WASTE DISPOSAL HAULER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL WASTE MATERIALS IN ACCORDANCE WITH GOVERNING REGULATIONS AND AGENCIES.
6. THERE SHALL BE NO ON-SITE BURIAL OF CONSTRUCTION MATERIALS, TREE BRANCHES, STUMPS, OR OTHER DELETERIOUS MATERIALS.
7. MATERIALS, WORKMANSHIP, AND CONSTRUCTION FOR THE SITE IMPROVEMENTS SHOWN HEREON SHALL BE IN ACCORDANCE WITH:
   - A. NEW JERSEY DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", 2019, AS SUPPLEMENTED.
   - B. CURRENT PREVAILING MUNICIPAL, COUNTY, AND/OR STATE AGENCY SPECIFICATIONS, STANDARDS, CONDITIONS, AND REQUIREMENTS.
   - C. CURRENT PREVAILING UTILITY COMPANY/AUTHORITY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.
   - D. CURRENT MANUFACTURER SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.

UTILITY NOTES

1. EXISTING UTILITY INFORMATION SHOWN HEREON HAS BEEN COLLECTED FROM VARIOUS SOURCES AND IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO EXCAVATION. WHERE EXISTING UTILITIES ARE TO BE CROSSED BY PROPOSED CONSTRUCTIONS, TEST PITS SHALL BE DUG BY THE CONTRACTOR PRIOR TO CONSTRUCTION TO ASCERTAIN EXISTING INVERTS, MATERIALS AND SIZES. TEST PIT INFORMATION SHALL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS. THE CONTRACTOR SHALL NOTIFY THE UNDER SIGNED PROFESSIONAL IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER MATERIALLY FROM THOSE REPRESENTED HEREON. SUCH CONDITIONS COULD RENDER THE DESIGNS HEREON INAPPROPRIATE OR INEFFECTIVE.
2. UTILITY RELOCATIONS SHOWN HEREON, IF ANY, ARE FOR INFORMATIONAL PURPOSES ONLY AND MAY NOT REPRESENT ALL REQUIRED UTILITY RELOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING AND/OR COORDINATING ALL REQUIRED UTILITY RELOCATIONS IN COOPERATION WITH THE RESPECTIVE UTILITY COMPANY/AUTHORITIES.
3. STORM SEWERS SHALL BE CLASS III (OR HIGHER IF NOTED) REINFORCED CONCRETE PIPE (RCP) WITH "O" RING GASKETS OR INTERNALLY PRELUBRICATED GASKET (TYLOX SUPERSEAL OR EQUIVALENT, ADS N-12 HIGH DENSITY POLYETHYLENE PIPE (HDPEP), AS NOTED ON THE PLAN, OR APPROVED EQUAL. PROPER PIPE COVERAGE SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION. PIPE LENGTHS SHOWN HEREON ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
4. CONTRACTOR IS RESPONSIBLE TO DETERMINE WHEN SPECIAL OR OVERSIZED DRAINAGE STRUCTURES ARE REQUIRED. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL SPECIAL (OVERSIZED) DRAINAGE STRUCTURES TO THE TOWNSHIP ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
5. WATER SERVICE TO BE PROVIDED FROM THE EXISTING WATER MAIN LINE WITHIN AN INTERNAL DRIVE AISLE. CONTRACTOR TO VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION. PIPE MATERIALS SHALL BE CEMENT LINED DUCTILE IRON PIPE, CLASS 52, WITH ASPHALTIC EPOXY TYPE COATING OR HIGH DENSITY POLYETHYLENE (HDPE) SDR-11 PIPE AS NOTED ON THE PLANS. WATER MAINS SHALL BE INSTALLED TO PROVIDE A MINIMUM 4 FEET OF COVER FROM THE TOP OF PIPE TO THE PROPOSED GRADE.
6. SANITARY SEWER SERVICE SHALL BE PROVIDED BY GRAVITY CONNECTION TO AN EXISTING LATERAL CURRENTLY SERVICING THE EXISTING BUILDING. CONTRACTOR TO FIELD LOCATE LOCATION AND SUPPLY ALIGNMENT AND DEPTH TO ENGINEER OF RECORD PRIOR TO CONSTRUCTION. PIPE MATERIALS SHALL BE PVC SDR-35, EXCEPT AS NOTED OTHERWISE ON THE PLANS. EXCEPT WHERE SHALLOWER DEPTHS ARE PERMITTED BY THE MUNICIPALITY OR UTILITY AUTHORITY, SEWER LINES, INCLUDING FORCE MAINS AND LATERALS, SHALL BE INSTALLED TO PROVIDE A MINIMUM 3 FEET OF COVER FROM THE TOP OF PIPE TO PROPOSED GRADE.
7. ALL WATER MAINS SHOULD BE SEPARATED FROM SANITARY SEWER AND INDUSTRIAL DISCHARGE LINES BY A MINIMUM HORIZONTAL DISTANCE OF 10 FEET. IF SUCH HORIZONTAL SEPARATION IS NOT POSSIBLE, THE WATER AND SEWER LINES SHALL BE IN SEPARATE TRENCHES (STEP TRENCHES ARE PROHIBITED) WITH THE TOP OF THE SEWER LINE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN OR WITH SUCH SEPARATION EXPRESSLY APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
8. AT THE CROSSINGS OF SEWER LINES AND WATER MAINS, THE TOP OF THE SEWER LINES SHALL BE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN (SEWER SERVICE LATERALS ARE NOT SUBJECT TO THIS REQUIREMENT). IF SUCH VERTICAL SEPARATION IS NOT POSSIBLE, THE SEWER LINE SHALL BE OF WATERTIGHT CONSTRUCTION (THAT IS DUCTILE IRON PIPE WITH MECHANICAL RESTRAINT JOINTS), WITH WATERTIGHT JOINTS THAT IS A MINIMUM OF 10 FEET FROM THE WATER MAIN. CONTRACTOR SHALL USE TRANSITION COUPLING, POWER SEAL MODEL #3501-OR EQUIVALENT AT DIP/PVC JOINTS.
9. GAS, ELECTRIC, LIGHTING, CABLE TELEVISION, AND ELECTRICAL SERVICE PLANS, IF REQUIRED, SHALL BE PREPARED BY THE RESPECTIVE UTILITY COMPANIES THAT SERVICE THE AREA PRIOR TO SITE CONSTRUCTION AND SHALL BE INSTALLED PER ORDINANCE OR LOCAL UTILITY COMPANIES REQUIREMENTS.
10. TELEPHONE, ELECTRIC, AND GAS LINES WILL BE INSTALLED UNDERGROUND. CROSSINGS OF PROPOSED PAVEMENTS WILL BE INSTALLED PRIOR TO THE CONSTRUCTION OF PAVEMENT BASE COURSE.

THESE GENERAL NOTES SHALL APPLY TO ALL SHEETS IN THIS SET.

ADA INSTRUCTIONS TO CONTRACTOR:

1. CONTRACTOR SHALL EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ADA (HANDICAPPED) ACCESSIBLE COMPONENTS FOR THE SITE. THESE COMPONENTS, AS CONSTRUCTED, MUST COMPLY WITH THE LATEST ADA STANDARDS FOR ACCESSIBLE DESIGN. FINISHED SURFACES ALONG THE ACCESSIBLE ROUTE OF TRAVEL FROM PARKING SPACE, PUBLIC TRANSPORTATION, PEDESTRIAN ACCESS, INTER-BUILDING ACCESS, TO POINTS OF ACCESSIBLE BUILDING ENTRANCE/EGRESS, SHALL COMPLY WITH THESE ADA CODE REQUIREMENTS. THESE INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

   (NOTE: THIS LIST IS NOT INTENDED TO CAPTURE EVERY APPLICABLE FEDERAL, STATE AND LOCAL RULE AND REGULATION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE LAW, WHETHER OR NOT STATED SPECIFICALLY HEREIN):

   - A. PARKING SPACES AND PARKING AISLES - SLOPE SHALL NOT EXCEED 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY DIRECTION.
   - B. CURB RAMPS- SLOPES SHALL NOT EXCEED 1:12 (8.3%).
   - C. LANDINGS -SHALL BE PROVIDED AT EACH END OF RAMPS, SHALL PROVIDE POSITIVE DRAINAGE AND SHALL NOT EXCEED 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY DIRECTION.
   - D. PATH OF TRAVEL ALONG ACCESSIBLE ROUTE - SHALL PROVIDE A 36 INCH OR GREATER UNOBSTRUCTED WIDTH OF TRAVEL, (CAR OVERHANGS CANNOT REDUCE THIS MINIMUM WIDTH), THE SLOPE SHALL BE NO GREATER THAN 1 :20 (5.0%) IN THE DIRECTION OF TRAVEL, AND SHALL NOT EXCEED 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%) IN CROSS SLOPE.
   - E. WHERE PATH OF TRAVEL WILL BE GREATER THAN 1:20 (5.0%), AN ADA RAMP WITH A MAXIMUM SLOPE OF 1:12 (8.3%), FOR A MAXIMUM DISTANCE OF 30 FEET, SHALL BE PROVIDED. THE RAMP SHALL HAVE ADA HAND RAILS AND "LEVEL" LANDINGS ON EACH END THAT ARE SLOPED NO MORE THAN 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%) FOR POSITIVE DRAINAGE.
   - F. DOORWAYS - SHALL HAVE A "LEVEL" LANDING AREA ON THE EXTERIOR SIDE OF THE DOOR THAT IS SLOPED NO MORE THAN 1:48 (1/4" PER FOOT OR NORMALLY 2.0%) FOR POSITIVE DRAINAGE. THIS LANDING AREA SHALL BE NO LESS THAN 60 INCHES (5 FEET) LONG, EXCEPT WHERE OTHER WISE PERMITTED BY ADA STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS (SEE APPLICABLE CODE SECTIONS).
2. IT IS RECOMMENDED THAT THE CONTRACTOR REVIEW THE INTENDED CONSTRUCTION WITH THE LOCAL BUILDING CODE OFFICIAL PRIOR TO COMMENCING WORK.

INFORMATION SHOWN HEREON IS TAKEN FROM A PLAN SET ENTITLED "CHICK-FIL-A, TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY BLOCK 201, LOTS 11-14 TAX MAP 22, 17.89± ACRES" DATED MARCH 30, 2020 AND REVISED THROUGH MAY 20, 2021, PREPARED BY GREGORY S. OMAN PE #43441 OF NEW JERSEY OF MENLO ENGINEERING ASSOCIATES.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998
Telephone 404-765-8000

REV	DATE	DESCRIPTION	DRAWN BY

Seal

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STORE #04591

BLOCK 201
LOTS LINE 11-14
TOWNSHIP OF
WOODBRIDGE
MIDDLESEX COUNTY
NEW JERSEY

BID SET

TITLE SHEET

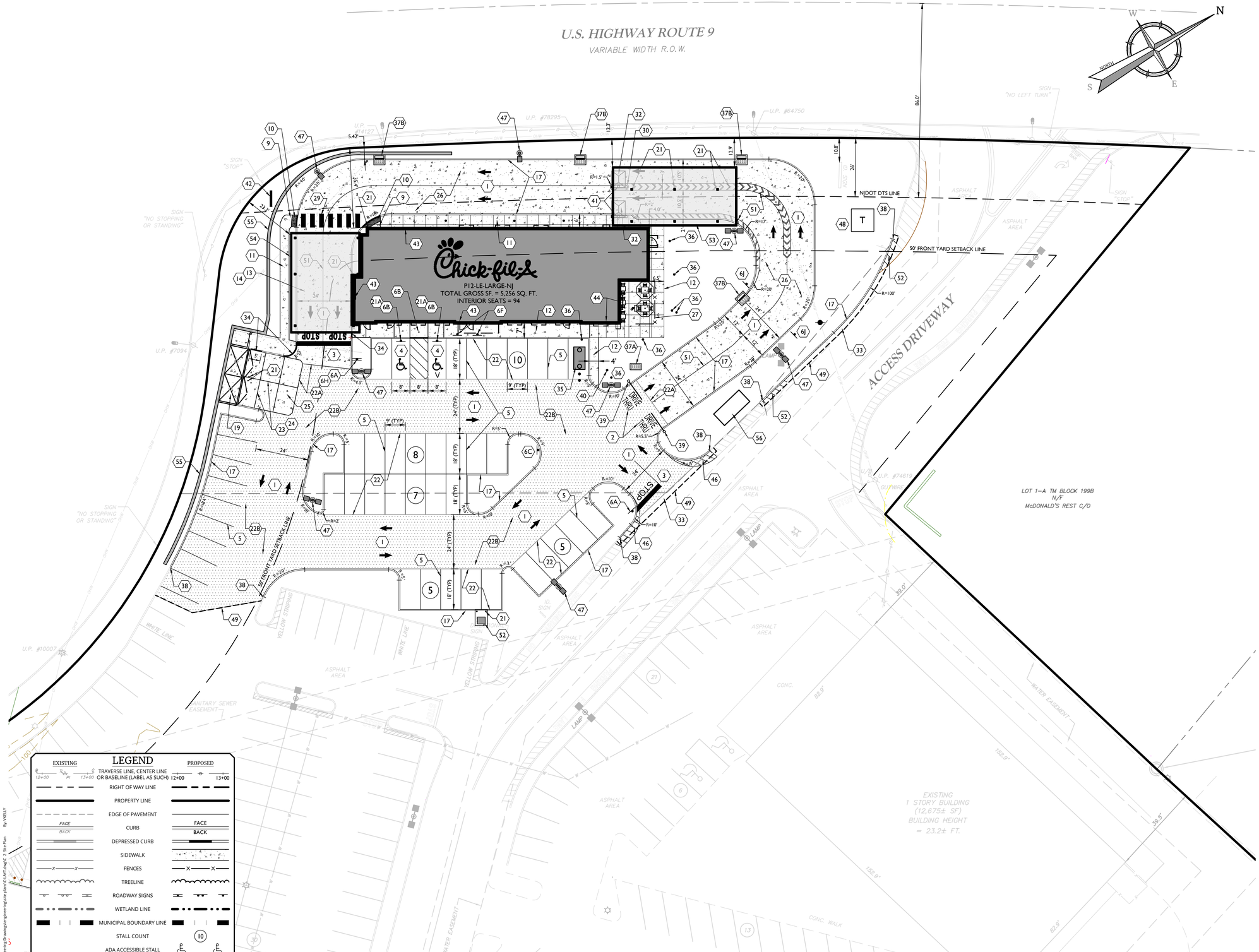
DWG EDITION 2.0

- ■ Preliminary
- □ 80% Submittal
- □ For Construction

File No.: 19003093A
Store : 04591
Date : 01/10/22
Drawn By: PJC
Checked By: VDK

Sheet

C 0



LEGEND

EXISTING		PROPOSED
12+00 PI 13+00	TRAVERSE LINE, CENTER LINE OR BASELINE (LABEL AS SUCH)	12+00 PI 13+00
	RIGHT OF WAY LINE	
	PROPERTY LINE	
	EDGE OF PAVEMENT	
FACE / BACK	CURB	FACE / BACK
	DEPRESSED CURB	
	SIDEWALK	
X X	FENCES	X X
	TREELINE	
	ROADWAY SIGNS	
	WETLAND LINE	
	MUNICIPAL BOUNDARY LINE	
	STALL COUNT	(10)
	ADA ACCESSIBLE STALL	V
	DEPRESSED CURB AND ADA RAMP	HC
	DIRECTION OF TRAFFIC FLOW	

SITE PLAN LEGEND

(1)	DIRECTIONAL ARROW (TYP.)	
(2)	DRIVE-THRU GRAPHICS	
(2A)	DRIVE-THRU MULTI-LANE MERGE STRIPING	(NOT USED)
(3)	STOP LINE GRAPHICS	
(4)	PAINTED HANDICAP PARKING SYMBOL (TYP)	
(5)	STANDARD PARKING STALL (TYP.)	
(6)	DIRECTIONAL SIGNAGE	
	ALL SIGNS TO CONFORM TO MUTCD LATEST VERSION	
(6A)	STOP SIGN	
(6B)	HANDICAP W/PENALTY (TYP.)	
(6C)	DRIVE THRU SIGN	(NOT USED)
(6D)	RIGHT TURN ONLY SIGN	(NOT USED)
(6E)	ONE WAY SIGN	(NOT USED)
(6F)	CURBSIDE ORDER SIGN	
(6G)	PEDESTRIAN CROSSING SIGN	(NOT USED)
(6H)	DO NOT ENTER SIGN	
(6I)	NO BYPASS LANE AHEAD	
(7)	CHICK-FIL-A MAIN ENTRY HANDICAP RAMP	
(8)	HANDICAP RAMP w/FLARED SIDES	(NOT USED)
(9)	RETURNED CURB HANDICAP RAMP	
(10)	TRUNCATED DOMES	
(11)	TYPICAL SIDEWALK DETAIL - PICTURE FRAME PATTERN	
(12)	TYPICAL SIDEWALK WITH CURB	
(13)	DRIVE THRU PLAN VIEW	
(14)	DRIVE THRU ISOMETRIC VIEW	
(15)	PLASTIC WHEEL STOP (TYP.)	(NOT USED)
(16)	LANDSCAPE/IRRIGATION PROTECTOR	(NOT USED)
(17)	18" CONCRETE CURB	
(18)	ROLLOVER/MOUNTABLE CURB	(NOT USED)
(19)	TRASH ENCLOSURE FOUNDATION PLAN	
(19A)	ALT. TRASH ENCLOSURE FOUNDATION PLAN	(NOT USED)
(20)	ALT. TRASH ENCLOSURE DRAINAGE PLAN	(NOT USED)
(21)	BOLLARD	
(21A)	BOLLARD W/ SIGN	
(22)	TYPICAL ASPHALT PAVEMENT SECTION	
(22A)	PAVEMENT EDGE AT CONCRETE	
(22B)	HEAVY DUTY PAVEMENT	
(23)	CONTRACTION JOINTS	
(24)	SECTION THRU CONCRETE PAVEMENT	
(25)	CONSTRUCTION JOINTS AT DUMPSTER	
(26)	6" CONCRETE PAVEMENT SECTION AT DRIVE-THRU	
(27)	FENCE	
(28)	HANDRAIL AND RAMP	(NOT USED)
(29)	CROSS WALK DETAIL	
(30)	DRIVE THRU ORDER POINT ISLAND CURB	
(31)	MULTI ORDER POINT MOUNTABLE CURB	(NOT USED)
(32)	MENU BOARD LOOP DETECTION SYSTEM	
(33)	PAVEMENT REPAIR STRIP	
(34)	CURB CUT (FLUSH CURB)	
(35)	GREASE INTERCEPTOR	
(36)	EXTERIOR CLEANOUT (TYP.)	
(37)	INLET DETAILS	
(37A)	TYPE "A"	
(37B)	TYPE "B"	
(37C)	TYPE "DOUBLE-E"	(NOT USED)
(38)	MEET EXISTING CURB	
(39)	CLEARANCE BAR	
(40)	FLAG POLE	
(41)	DRIVE-THRU MENU BOARD	
(42)	MAIN ID SIGN (75 SF)	
(43)	WALL SIGN (58.75 SF)	
(44)	WALL ICON SIGN (36 SF)	
(45)	CURB TRANSITION FROM FLUSH TO FULL HEIGHT	
(46)	4" WIDE YELLOW STRIPE	
(47)	LIGHT POLE (SEE LIGHTING PLAN FOR DETAILS)	
(48)	TRANSFORMER & PAD	
(49)	SAW CUT LIMIT (TYP.)	
(50)	DOGHOUSE SANITARY MANHOLE	(NOT USED)
(51)	DRIVE-THRU STRIPING	
(52)	EV CHARGING UNIT	
(53)	FACE TO FACE ORDER CANOPY	
(54)	MEAL DELIVERY CANOPY	
(55)	MODULAR BLOCK RETAINING WALL	
(56)	HEATED ENCLOSURE FOR WATER METERS	

SCALE : 1" = 20'

Know what's below. Call before you dig. 811

1-800-272-1000

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2019\19003093A\Bid Set\Engineering\Drawings\engineering\site plans\CLANT.dwg|C 2 Site Plan By: VKELLY

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5200 Buffington Road
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30349-2998
Telephone 404-765-8000

REV	DATE	DESCRIPTION	DRAWN BY
3	1/31/23	REVISED PER ADDITION OF EV CHARGING UNIT	TL
2	2/17/22	REV. PER TRANSFORMER DETAILS, LA ADD DETL SHT	VDK
1	2/8/22	REV. PER PSEG SITE MEETING	VDK

Seal

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STORE #04591

BLOCK 201
LOTS LINE 11-14
TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY
NEW JERSEY

BID SET

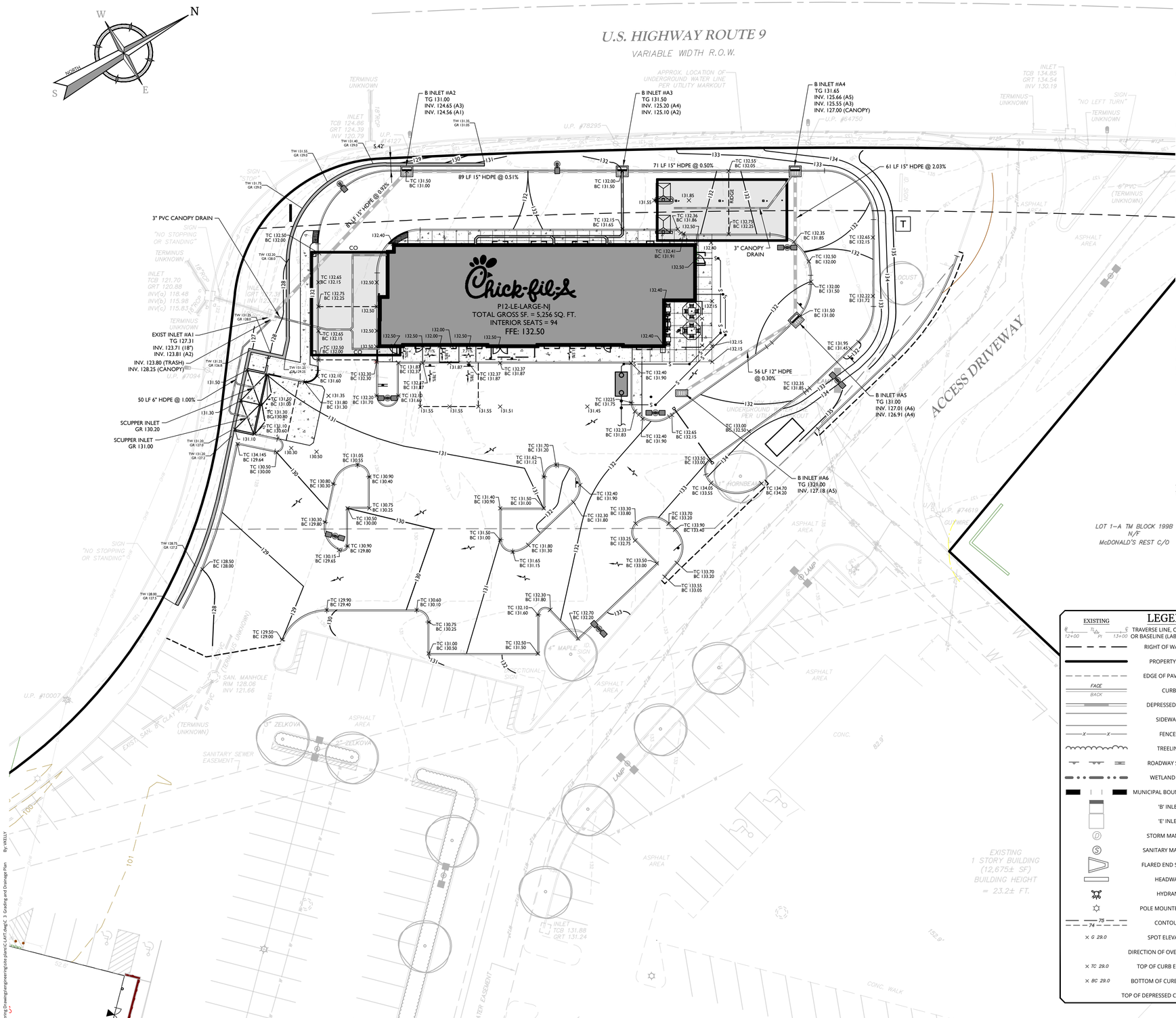
SITE PLAN

DWG EDITION 2.0

- Preliminary
- 80% Submittal
- For Construction

File No.: 19003093A
Store : 04591
Date : 01/21/22
Drawn By: PJC
Checked By: VDK

Sheet
C 2



EARTHWORK PERFORMANCE CRITERIA

Landlord agrees to perform Landlord's Work in accordance with the standards in this Exhibit B-1 and Landlord's Geotechnical Report issued by Whitestone Associates, Bnc. and dated September 23, 2019.

1. Existing Conditions, Site Preparation & Grading

Initial site preparation includes, if applicable, complete removal and proper disposal of the following:

(a) All improvements and remnants of previous construction, including underground; this includes all buildings, foundations, floor slabs, septic tanks, underground utilities which are not reused, trash, and other debris, and materials.
(b) All vegetation, stumps, root balls, topsoil, topsoil fill, root mat, muck, mulch and other organics.
(c)N/A.
(d) All unsuitable or environmentally impacted soils and other materials.
(e) All asphaltic concrete pavements; however, these pavements should remain in place as long as possible to serve as a construction entrance and to protect the underlying moisture-sensitive soil.

Unstable areas must be:

- over-excavated to a stable subgrade,
- scarified, moisture conditioned and re-compacted,
- stabilized with coarse aggregate or geotextile, or
- stabilized with chemical admixture such as cement, fly-ash, or hydrated lime.

All excavations must be performed under engineering controlled conditions under the supervision of a licensed/registered geotechnical engineer.
Disposal of all material and debris must be in accordance with local, state and federal regulations for the material type.

2. Structural Fill

The Land must be graded with Structural Fill selected, placed, and compacted as outlined in this Exhibit.
All new fill within the areas of the Land that may be used for support of structures, signs, utilities, pavements, walks, walls, etc. must meet the standards of **"Structural Fill"** as set out in this Exhibit. Structural Fill must be comprised of clean soil or aggregate, free of organics, deleterious materials, ice, snow, and waste of any kind. The fill work must be observed and documented by a licensed/registered geotechnical engineer, and the Structural Fill must be compacted to the standards in this Exhibit.
Structural Fill must be compacted in uniform lifts not exceeding ten inches (10") loose thickness, to at least 95% of Modified Proctor Maximum Dry Density (ASTM D1557). All fill slopes to remain must be placed and compacted beyond the final lines and grades, then cut back to ensure proper compaction at the finish slope face. All existing slopes steeper than 5I:1V must be "benched" at least eight feet (8') into the slope face, to ensure new fills are placed and compacted in generally uniform, horizontal lifts, eliminating weakened planes within the new fills. The top lift must be compacted to 95% Modified Proctor Maximum Dry density (ASTM D1557).

3. Utility backfill

All underground utilities must be backfilled and compacted with materials that meet the requirements of Structural Fill and compacted to 95% Modified Proctor Maximum Dry density (ASTM D1557), and unsuitable spoils must be disposed of off the Land.

4. Subgrade

The original subgrade, and each successive lift of Structural Fill including the final lift, must be stable under the weight of a loaded biaxial dump truck. **"Stable"** is defined as a firm, unyielding surface, and allowing no yielding, rutting, fanning, pumping, or otherwise deflecting in excess of one inch (1").
In addition, the final subgrade must meet the following parameters:

- Building Foundations:
  (1)In accordance with recommendations of the Tenant's Geotechnical Report for foundations' minimum allowable net bearing pressure.
- Building slab, Exterior Slabs, and Rigid Pavement areas:
  (1)Modulus of Subgrade Reaction (k) z 150 pci.
- Flexible Pavement areas:
- California Bearing Ratio (CBR) z 5; and
- Resilient Modulus (MR) z 2,000.

5. Drainage

During excavations, all perched or hydrostatic groundwater must be diverted to a suitable dewatering sump or other facility, and discharged to a suitable outlet, in accordance with applicable regulations.
During grading, positive drainage must be maintained toward a lined swale, catch basin, detention area or other suitable storm water collection area to minimize ponding and retention of water. All subgrades must be compacted with a smooth drum roller in preparation of any anticipated precipitation or periods of site inactivity in excess of forty-eight (48) hours. Sub-drains, French drains or other suitable structure(s) must be installed to relieve trapped water due to shallow bedrock, springs, and seepage, and to divert water to an appropriate structure or outlet. Surface water must be diverted away from slopes and retaining walls to prevent erosion and hydrostatic pressures.
Shallow groundwater, perched water, trapped water, and or artesian conditions (springs, etc.) must be remediated with the installation of a French drain, burrito drain, or other subsurface drainage system designed to effectively control water from weakening the subgrade, allowing capillary rise to building and pavement subgrades, or otherwise impacting the development of the Land. The drainage system must divert water to a legal, approved discharge point which must not allow back- flushing and must effectively filter soil particles from entering the drain.

6. Final Grading

The final lift must be graded to within one-tenth foot (0.1') of design grades as shown on the Approved Plans for Landlord's Work, Tenant's Preliminary Plans will indicate top-of-pavement elevations as well as asphalt and slab section thicknesses so that Landlord can grade to proper subgrade elevations.

7. Erosion Control

Sediment and erosion control features must be maintained in accordance with the Approved Plans for Landlord's Work, all municipal, county, state and federal regulations, and the more stringent of local standards and codes or the 2012 Construction General Permit issued by the United States Environmental Protection Agency, regardless of whether the construction site is greater than or less than one (1) acre.

8. QA/QC Documentation

A testing agency must be retained under the direction of a licensed/registered geotechnical engineer to monitor and test all fill soils placed to confirm and document satisfactory compliance with these criteria. The documentation must include all test locations, elevations and testing results, and must be submitted to Tenant along with a certification from the licensed/registered geotechnical engineer summarizing his services and stating that these criteria have been met.

9. Modification of Information

The information contained in this Exhibit is subject to modification pending completion of site specific geotechnical engineering exploration and analysis by Tenant. Modifications will be communicated by Tenant to Landlord for incorporation into the Approved Plans for Landlord's Work.

INFORMATION SHOWN HEREON IS TAKEN FROM A PLAN SET ENTITLED "CHICK-FIL-A, TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY BLOCK 201, LOTS 11-14 TAX MAP 22, 17.89± ACRES" DATED MARCH 30, 2020 AND REVISED THROUGH MAY 20, 2021, PREPARED BY GREGORY S. OMAN PE #43441 OF NEW JERSEY OF MENLO ENGINEERING ASSOCIATES.

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STORE #04591

BLOCK 201
LOTS LINE 11-14
TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY
NEW JERSEY

BID SET

GRADING AND DRAINAGE PLAN

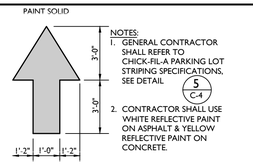
DWG EDITION 2.0

- [x] Preliminary
- [ ] 80% Submittal
- [ ] For Construction

File No.: 19003093A
Store : 04591
Date : 01/21/22
Drawn By: PJC
Checked By: VDK

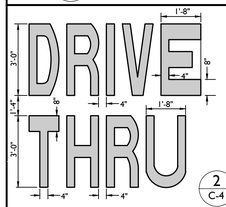
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C 3

2019\19003093A\Bid Set\Engineering Drawings\engineering\site plan\CLIANT.dwg|C 3 Grading and Drainage Plan By:VKELLY



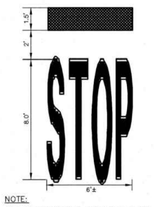
NOTES:
1. GENERAL CONTRACTOR SHALL REFER TO CHICK-FIL-A PARKING LOT STRIPING SPECIFICATIONS, SEE DETAIL 5 / C-4
2. CONTRACTOR SHALL USE WHITE REFLECTIVE PAINT ON ASPHALT & YELLOW REFLECTIVE PAINT ON CONCRETE.

1 / C-4 DIRECTIONAL ARROW
NOT TO SCALE



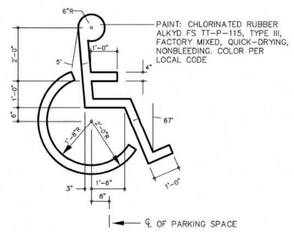
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2. CONTRACTOR SHALL USE WHITE REFLECTIVE PAINT ON ASPHALT & YELLOW REFLECTIVE PAINT ON CONCRETE.

2 / C-4 DRIVE-THRU GRAPHICS
NOT TO SCALE

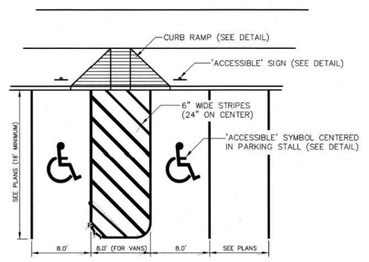


NOTE:
FOR PROPORTIONS SEE "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS," FHWA

3 / C-4 STOP LINE GRAPHIC
NOT TO SCALE

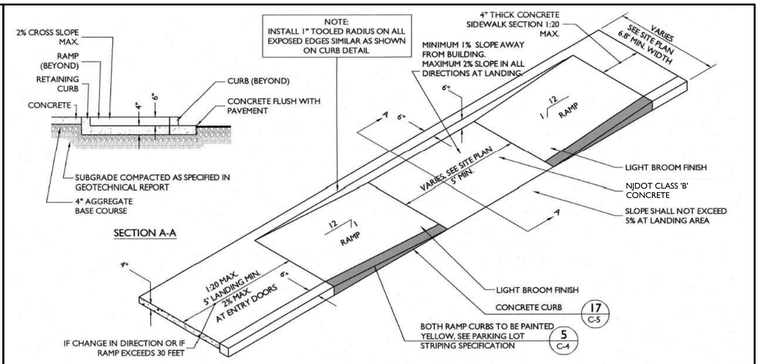


4 / C-4 PAINTED ACCESSIBILITY SYMBOL
NOT TO SCALE

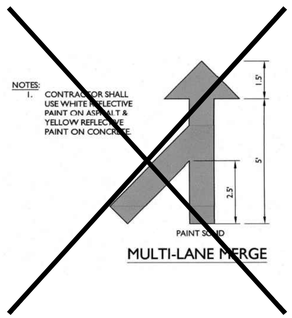


(ABUTTING CURB / VAN SPACE)

5 / C-4 PAINTED ACCESSIBILITY SYMBOL
NOT TO SCALE

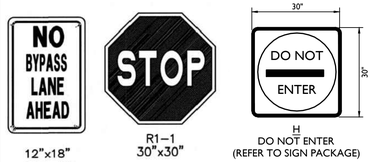


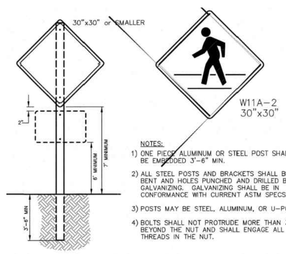
7 / C-4 SIDEWALK ACCESSIBLE RAMP
NOT TO SCALE



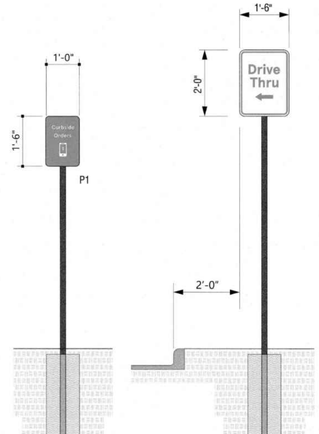
MULTI-LANE MERGE

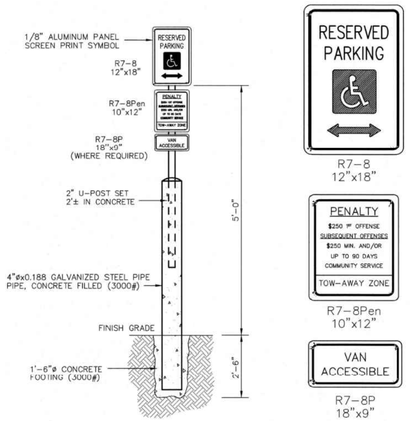
2A / C-4 MULTI-LANE DIRECTIONAL GRAPHICS
NOT TO SCALE



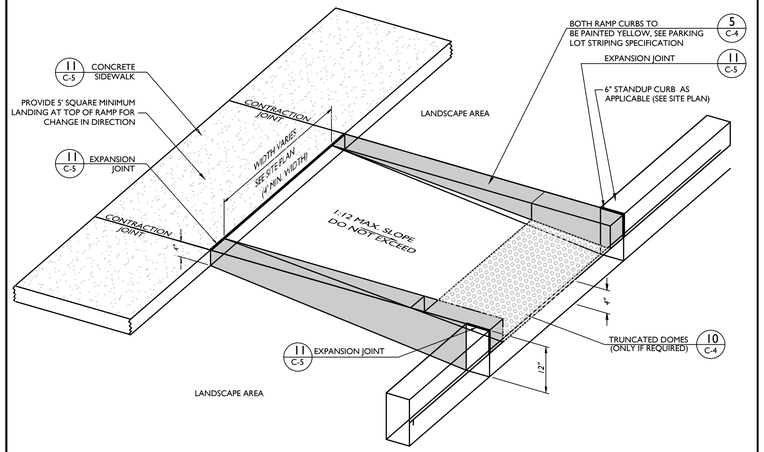


TRAFFIC SIGN DETAIL
N.T.S.

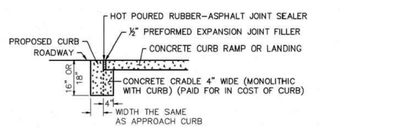




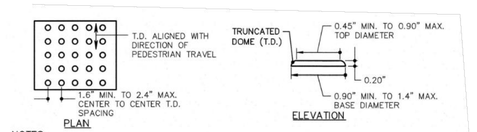
ACCESSIBLE SIGN DETAIL W/BOLLARD
N.T.S.



RETURNED CURB ACCESSIBLE RAMP
NOT TO SCALE

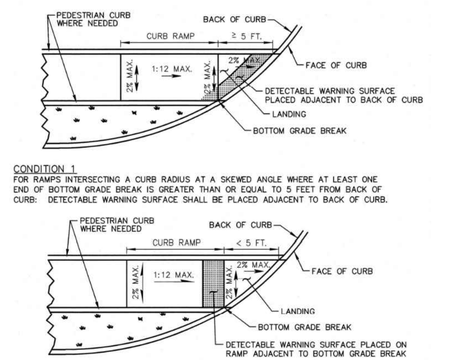


DROPPED CURB AND CRADLE



NOTES:
1. DETECTABLE WARNING SURFACE (DWS) SHALL EXTEND FULL WIDTH OF CURB RAMP (EXCLUSIVE OF FLARES) OR FULL WIDTH OF LANDING/TURNING SPACE.
2. DWS SHALL EXTEND 2 FEET MINIMUM IN THE DIRECTION OF PEDESTRIAN TRAVEL.
3. DWS SHOULD BE COLORED AS FOLLOWS:
   a. WITHIN TOWNSHIP/COUNTY RIGHT OF WAY, COLOR SHALL CONTRAST VISUALLY WITH ADJACENT SURFACES, EITHER LIGHT ON DARK OR DARK ON LIGHT, OR AS PER SPECIFIED REQUIREMENTS.
   b. WITHIN STATE RIGHT OF WAY, USE A SURFACE OR A COATING MATERIAL THAT IS SAFETY RED IN COLOR ACCORDING TO FED-STD-595B COLOR CHIP NO. 31350 AND HAS A 35 BPM MINIMUM SLIP RESISTANCE WHEN TESTED ACCORDING TO ASTM F 303. ENSURE THAT THE FINISHED PRODUCT IS STABILIZED AGAINST UV DEGRADATION AND ADHERES TO THE SUBSTRATE WITHOUT PEELING OR BLISTERING.
4. TYPICALLY, DWS SHALL BE PLACED ADJACENT TO BACK OF CURB. SEE "PLACEMENT OF DETECTABLE WARNING SURFACE ON CURB RADIUS" FOR EXCEPTIONS.

10 / C-4 TRUNCATED DOMES
NOT TO SCALE



CONDITION 1
FOR RAMPS INTERSECTING A CURB RADIUS AT A SKEWED ANGLE WHERE AT LEAST ONE END OF BOTTOM GRADE BREAK IS GREATER THAN OR EQUAL TO 5 FEET FROM BACK OF CURB: DETECTABLE WARNING SURFACE SHALL BE PLACED ADJACENT TO BACK OF CURB.

CONDITION 2
FOR RAMPS INTERSECTING A CURB RADIUS AT A SKEWED ANGLE WHERE BOTH ENDS OF BOTTOM GRADE BREAK ARE LESS THAN 5 FEET FROM BACK OF CURB: DETECTABLE WARNING SURFACE SHALL BE PLACED ON THE RAMP ADJACENT TO BOTTOM GRADE BREAK.

PLACEMENT OF DETECTABLE WARNING SURFACE ON CURB RADIUS

1. PEDESTRIAN CURBS
   - PEDESTRIAN CURBS ARE PERMITTED WHEN ADJACENT TO NON-WALK AREAS OR ELEVATION DIFFERENCES WHICH CANNOT BE ACCOMMODATED BY FLARES OR GRADING.
2. CROSSWALKS
   - FOR CURB RAMPS THAT LEAD TO A SINGLE CROSSWALK, THE RAMP (EXCLUDING FLARES) TO BE FULLY INSIDE OF MARKED CROSSWALK LINES.
   - SHOULD BE PLACED A MINIMUM DISTANCE OF 4'-0" FROM STOP AND YIELD LINES.
   - FOR UN-SIGNALIZED AREAS, CROSSWALKS SHOULD BE PLACED A MINIMUM DISTANCE OF 20'-0" AWAY FROM ON ROAD PARKING ZONES. FOR SIGNALIZED AREAS, CROSSWALKS SHOULD BE PLACED A MINIMUM DISTANCE OF 30'-0" FROM ON ROAD PARKING ZONES.
   - PEDESTRIAN CROSSWALKS ARE 6'-0" MINIMUM MEASURED FROM INSIDE THE PAINTED EDGE TO INSIDE PAINTED EDGE AND THE INSIDE LINES MUST BE OUTSIDE THE PROJECTED CURB LINES.
   - AVOID USING THE PARALLEL LINE CROSSWALK DESIGN. INSTEAD USE THE LONGITUDINAL, LADDER-STYLE, LINES AT 6'-0" LONG AND 1'-2" WIDE WITH A SPACING OF 1'-2" APART. SPACING SHOULD BE DESIGNED SO THE PAINTED AREAS AVOID THE WHEEL PATHS.
3. CURB RAMPS
   - CONSTRUCT CURB RAMPS WITH A MINIMUM 4'-0" X 4'-0" CLEAR SPACE BEFORE THE CURB FACE, WITHIN THE WIDTH OF THE CROSSWALK.
   - SLOPES THAT EXCEED 8.00%, OR CONTRACT DOCUMENTS AS APPLICABLE, WILL NOT BE ACCEPTED AND WILL BE RECONSTRUCTED.
   - PROVIDE SLIP RESISTANT TEXTURE ON CURB RAMP BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP. EXTEND TEXTURE THE FULL WIDTH AND LENGTH OF THE CURB RAMP INCLUDING FLARED SIDE RAMPS.
   - TO AVOID CHASING GRADE INDEFINITELY WHEN TRAVERSING THE HEIGHT OF CURB, RAMP LENGTH NOT TO EXCEED 15'-0". ADJUST RAMP SLOPE AS NEEDED TO PROVIDE ACCESS TO THE MAXIMUM EXTENT FEASIBLE.
   - FOR NEW CONSTRUCTION AND ALTERATIONS, CONSTRUCT CURB RAMP AND FLARE SLOPES WITH THE FLATTEST SLOPE POSSIBLE.
   - FOR NEW CONSTRUCTION, ATTEMPT TO KEEP THE CROSS SLOPE AS FLAT AS POSSIBLE. DO NOT EXCEED 2.00% CROSS SLOPE ON THE CURB RAMP OR PEDESTRIAN ACCESSIBLE ROUTE (MEASURED PERPENDICULAR TO THE DIRECTION OF TRAVEL).
   - CURB RAMP AND SIDE FLARE LENGTHS ARE VARIABLE AND BASED ON CURB HEIGHT AND THE SIDEWALK SLOPE.
   - CURB RAMP WIDTH IS 4'-0" MINIMUM.
   - AVOID CURB RAMP DESIGNS WHERE THE WIDTH OF THE CROSSWALK WILL NEED TO BE GREATER THAN 10'-0" WIDE.
   - ALL SLOPES ARE MEASURED WITH RESPECT TO A LEVEL PLANE. THEREFORE, THE LENGTH OF RAMP IS NOT SOLELY DEPENDANT ON THE HEIGHT OF CURB. (FOR EXAMPLE, A 6" CURB DOES NOT NECESSARILY MEAN A RAMP LENGTH OF 6'-0" FOR A 12:1 SLOPE.
   - THE CHANGE IN GRADE AT THE BOTTOM OF THE CURB RAMP AND ADJOINING ROAD SURFACE IS NOT TO EXCEED AN ALGEBRAIC DIFFERENCE OF 11.00%. THE COUNTER SLOPE OF THE GUTTER OR ROAD AT THE FOOT OF A CURB RAMP, LANDING OR BLENDED TRANSITION IS NOT TO EXCEED 8.00% AND IT IS NOT NECESSARY TO HAVE THE LENGTH GREATER THAN 15'-0".
   - WHEN TWO CROSSWALKS LEAD TO A SINGLE CURB RAMP, THE MAXIMUM RUNNING SLOPE IS 5% WITH A MAXIMUM 2% CROSS SLOPE. THESE TYPES OF RAMPS REQUIRE THE ENGINEERING DEPARTMENT'S APPROVAL AS THEY ARE NOT PREFERRED.
4. DEPRESSED CURBS
   - CONSTRUCT TOP OF PLAIN CEMENT CONCRETE DEPRESSED CURB TO BE FLUSH WITH ADJACENT SURFACES (RAMPS, SIDEWALKS, FLARES).
   - CONSTRUCT DEPRESSED CURB FOR CURB RAMPS FLUSH TO ADJACENT ROADWAY. GRADE EDGE OF ROAD ELEVATIONS AT THE FLOW LINE TO ENSURE POSITIVE DRAINAGE AND PREVENT PONDING. FOR LEVEL LANDINGS BEHIND DEPRESSED CURB, ADJUST SLOPES TO PROVIDE POSITIVE DRAINAGE. THE VERTICAL ALIGNMENT OF A CURB RAMP, EXCLUDING FLARES, SHALL BE PLANAR. GRADE BREAKS SHALL BE FLUSH AND PERPENDICULAR TO THE DIRECTION OF THE RAMP RUN. RAMP TRANSITIONS BETWEEN WALKS, GUTTERS, LANDINGS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT VERTICAL CHANGES (1/4" MAXIMUM).
   - WHEN TWO CROSSWALKS LEAD TO A SINGLE CURB RAMP, THE DEPRESSED CURB MUST EXTEND FROM THE OUTER MOST EDGE OF EACH CROSSWALK.
5. DETECTABLE WARNING SURFACES
   - NO SEPARATION BETWEEN DETECTABLE WARNING SURFACES FOR MEDIANS LESS THAN 4'-0" BETWEEN BACK OF CURBS.
   - PROVIDE DETECTABLE WARNING SURFACES (DWS) 24" MINIMUM (IN THE DIRECTION OF PEDESTRIAN TRAVEL) ACROSS FULL WIDTH OF RAMP AT THE GRADE BREAK NEAR STREET EDGE. PROVIDE DWS THAT CONTRAST VISUALLY WITH ADJACENT WALKWAY SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT FOR THE FULL WIDTH OF RAMP.
   - ALIGN DETECTABLE WARNING SURFACE TRUNCATED DOMES ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF THE RAMP AND PERPENDICULAR TO CURB WHEN APPROPRIATE.
   - DETECTABLE WARNING SURFACES SHALL BE SAFETY RED COLOR, EXCEPT IF THE MUNICIPALITIES HAVE ESTABLISHED AN ALTERNATIVE COLOR SCHEME.
   - FOR TWO CROSSWALKS LEADING TO A SINGLE CURB RAMP, THE DETECTABLE WARNING SURFACE MUST BE PLACED ALONG THE ENTIRE DEPRESSED CURB AND THE DOMES MUST BE PLACED IN SUCH A WAY THAT THE DIRECTION OF TRAVEL IS ORIENTED INTO THE CROSSWALK.
6. DRIVEWAYS
   - 5.00% MAXIMUM SLOPE FOR THE DRIVEWAY APRON.
   - 1 1/2" MAXIMUM VERTICAL CHANGE IN HEIGHT BETWEEN THE ROAD SURFACE AND THE DEPRESSED CURB AT THE DRIVEWAY APRON.
7. JOINTS
   - PROVIDE EXPANSION JOINT MATERIAL 1/2" THICK WHERE CURB RAMP ADJOINS ANY RIGID PAVEMENT, SIDEWALK OR STRUCTURE WITH THE TOP OF JOINT FILLER FLUSH WITH ADJACENT CONCRETE SURFACE.
   - SEAL JOINTS WITH AN APPROVED SEALING MATERIAL.
8. LANDINGS (AKA TURNING SPACE)
   - LANDING AREA, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP SHALL BE KEPT CLEAR OF OBSTRUCTIONS, UNLESS AN EXCEPTION IS GRANTED.
   - DO NOT EXCEED 2.00% SLOPE IN ALL DIRECTIONS.
   - LANDING AREA SHOULD BE 4'-0" X 4'-0" MINIMUM CLEAR SPACE. IF THE TURNING SPACE IS CONSTRAINED ON 2 OR MORE SIDES, IT MUST BE 4'x5' WITH THE 5' LENGTH ALONG THE UNOBSTRUCTED SIDE. FOR TWO CROSSWALKS LEADING TO A SINGLE CURB, THE LANDING AREA MUST HAVE A MINIMUM OF A 5'-0" DEPTH (INCLUDING THE DETECTABLE WARNING SURFACE) ALONG THE DEPRESSED CURB/ROADWAY.
   - ENGINEERING DEPARTMENT APPROVAL IS REQUIRED IF LANDING FOR TURNING MANEUVER IS NOT ON THE SIDEWALK, I.E. IF THE LANDING AREA "CLEAR SPACE" IS IN THE ROADWAY.
   - 4'x4' LANDINGS ARE REQUIRED AT EVERY ACCESSIBLE PEDESTRIAN SIGNAL/PUSHBUTTON LOCATION.
9. NON-WALK SURFACES
   - NON-WALK AREA IS AN OBSTRUCTION OR GRASS/NON-PAVED AREA ADJACENT TO THE PEDESTRIAN ACCESS ROUTE THAT IS NOT USED BY THE PEDESTRIAN FOR ACCESS.
10. PEDESTRIAN PUSHBUTTONS
    - THE DETAILS DEPICT PEDESTRIAN PUSHBUTTON POLES TO ILLUSTRATE THE RECOMMENDED PLACEMENT OF PEDESTRIAN PUSHBUTTONS. FOR ALTERATION PROJECTS, PROVIDE ACCESS TO EXISTING PEDESTRIAN PUSHBUTTONS TO THE MAXIMUM EXTENT FEASIBLE. INSTALL PEDESTRIAN PUSHBUTTON STUB POLES, WHERE APPLICABLE, SO AS NOT TO CREATE PEDESTRIAN OBSTRUCTIONS.
    - NEW CONSTRUCTION MUST COMPLY WITH RECOMMENDED LOCATIONS FOR ALTERATION PROJECTS LOCATE PEDESTRIAN PUSHBUTTONS, TO THE MAXIMUM EXTENT FEASIBLE (SEE 2009 MUTCD FIG 4E-3)
    - ADJACENT TO A LEVEL NON-SLIP SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS A NON-SLIP WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP
    - WITHIN 5'-0" OF THE CROSSWALK EXTENDED
    - BETWEEN 1'-6" AND 10'-0" OF THE EDGE OF CURB, SHOULDER OR PAVEMENT
    - PARALLEL TO THE CROSSWALK TO BE USED
    - MOUNT PEDESTRIAN PUSHBUTTON 42" ABOVE THE SIDEWALK OR FINISHED GRADE TO THE CENTER OF THE PUSHBUTTON AND 10" MAXIMUM LATERALLY FROM LANDING.
11. SIDE FLARES
    - ALL SLOPES ARE MEASURED WITH RESPECT TO A LEVEL PLANE. THEREFORE, THE LENGTH OF RAMP IS NOT SOLELY DEPENDANT ON THE HEIGHT OF CURB. (FOR EXAMPLE, A 6" CURB DOES NOT NECESSARILY MEAN A RAMP LENGTH OF 6'-0" FOR A 12:1 SLOPE.
    - SIDE FLARES 10.00% MAXIMUM SLOPE WHERE THE PEDESTRIAN PATH CROSSES THE CURB RAMP
    - SIDE FLARES MUST BE PARALLEL TO THE CURB LINE
    - CURB RAMP AND SIDE FLARE LENGTHS ARE VARIABLE AND BASED ON CURB HEIGHT AND THE SIDEWALK SLOPE
    - GRADE GRASS AREAS OR OTHER NON-WALK AREAS AT 3:1 (1:3) MAXIMUM. DO NOT INSTALL CHEEK WALLS THAT INTERSECT THE PEDESTRIAN ACCESS ROUTE
    - SIDE FLARE WIDTH IS TYPICALLY 24" AND A MINIMUM OF 12".
12. SIDEWALKS
    - NOTE THE AREA CONSIDERED TO BE THE "PEDESTRIAN ACCESSIBLE ROUTE"
    - THE MAXIMUM SIDEWALK CROSS SLOPE IS 2.00% (MEASURED PERPENDICULAR TO THE DIRECTION OF TRAVEL). THE MAXIMUM DETAILS TO SLOPE IS 5.00%. FOR SIDEWALKS ALONG STREETS; HOWEVER, THE LONGITUDINAL GRADE OF THE SIDEWALK SHOULD BE CONSISTENT WITH THE GRADE OF THE ADJACENT ROADWAY. IF THE 5.00% GRADE IS NOT FEASIBLE DUE TO TOPOGRAPHY AND OTHER PHYSICAL CONSTRAINTS, THE LOWEST PRACTICAL GRADE GREATER THAN 5.00% SHOULD BE USED
    - SIDEWALK WIDTH MAY BE REDUCED TO 4'-0", WHEN PASSING AREAS 5'-0" X 5'-0" ARE PROVIDED EVERY 200'.
13. TRAVEL LANES
    - THE TRAVEL LANE IS DEFINED BY THE OUTSIDE EDGE OF THE WHITE PAVEMENT MARKING LINE. IF A WHITE PAVEMENT MARKING LINE DOES NOT EXIST, THE TRAVEL LANE IS DEFINED BY THE CONTRACT DOCUMENTS.
14. MODIFY CONSTRUCTION DETAILS TO ADAPT DIMENSIONS TO EXISTING CURB HEIGHTS WHERE THE CURB IS LESS OR MORE THAN THE STANDARD 6" HEIGHT.
15. CONSTRUCTION MUST MEET THE STANDARDS CONTAINED HEREIN UNLESS OTHERWISE NOTED OR DIRECTED.
16. PREFERRED AND ALTERNATE TREATMENTS SHOULD NOT BE INTERMIXED WITHIN THE SAME INTERSECTION.
17. ALL HANDICAP RAMPS CONSTRUCTED IN THIS CONTRACT SHALL MEET ACCESSIBILITY REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
18. THE CONTRACTOR IS REQUIRED TO CONTACT THE TRAFFIC ENGINEERING DEPARTMENT ABOUT THE CONSTRUCTION OF ALL HANDICAP CURB RAMPS AT SIGNALIZED INTERSECTIONS AND VERIFY THE STRIPING PLAN IS IN ACCORDANCE WITH THE MOST RECENT NO PASSING ZONE PLAN.
19. GRADE BREAKS
    - GRADE BREAKS AT THE TOP AND BOTTOM OF THE CURB RAMP SHALL BE PERPENDICULAR TO THE DIRECTION OF THE RAMP RUN.
    - GRADE BREAKS ARE NOT PERMITTED ON THE SURFACE OF RAMP RUNS OR LANDING AREAS.
    - SURFACE SLOPES THAT MEET AT THE GRADE BREAKS SHALL BE FLUSH.
20. FOR NEW CONSTRUCTION AND ALTERATIONS, CONSTRUCT CURB RAMP AND FLARE SLOPES WITH THE FLATTEST SLOPE POSSIBLE.
21. ALL VERTICAL SURFACE DISCONTINUITIES SHALL NOT EXCEED 1/4" IN HEIGHT. ANY VERTICAL SURFACE DISCONTINUITY BETWEEN 1/4" AND 1/2" SHALL BE BEVELED AT A SLOPE NO GREATER THAN 50% ACROSS THE ENTIRE DISCONTINUITY.
22. HORIZONTAL OPENINGS IN GRATES AND JOINTS SHALL NOT EXCEED 1/2" IN DIAMETER AND THE GRATES SHALL BE PLACED SO THE LONG DIMENSION IS PERPENDICULAR TO THE DIRECTION OF TRAVEL.

GENERAL ADA NOTES

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STORE #04591

BLOCK 201
LOTS LINE 11-14
TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY
NEW JERSEY

BID SET

CONSTRUCTION DETAILS

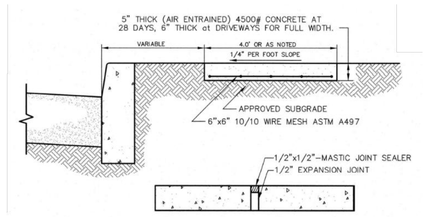
DWG EDITION 2.0

- ■ Preliminary
- ☐ 80% Submittal
- ☐ For Construction

File No.: 19003093A
Store : 04591
Date : 01/10/22
Drawn By: PJC
Checked By: VDK

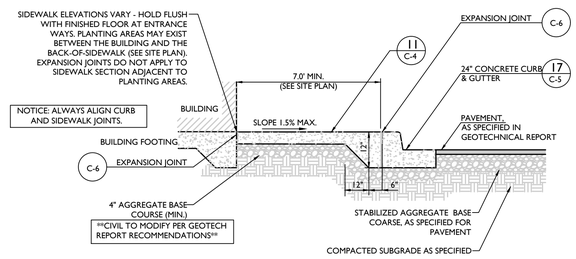
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2019\19003093A\Bid Set\Engineering Drawings\engineering\site plans\C-DTLS.dwg\C-4 Construction Details By: PCPICHLOW

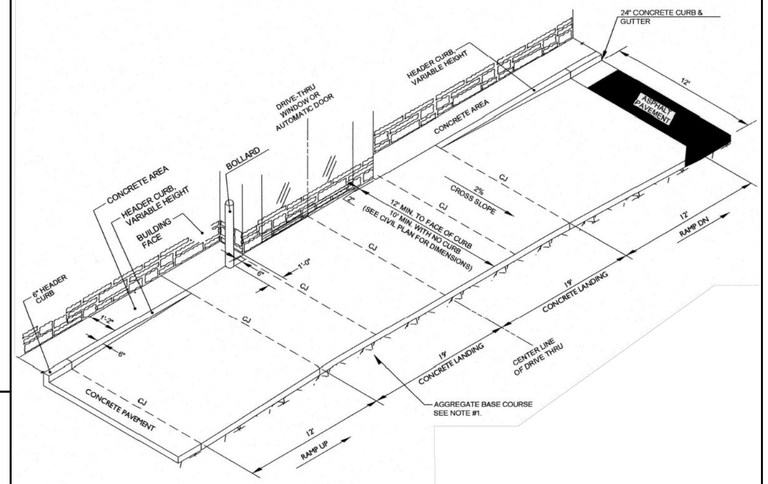


NOTES:
1) EXPANSION JOINTS TO BE LOCATED AT MAXIMUM OF 20' O.C.; AT ALL STRUCTURES; AND WHERE SIDEWALK ABUTS THE CURB.
2) EXPANSION MATERIALS TO BE 1/2" PREMOLDED, ASPHALT IMPREGNATED, JOINT FILLER.
3) TOOLED JOINTS TO BE SPACED EQUAL TO THE SIDEWALK WIDTH (6' MAX).
4) ALL MATERIALS AND METHODS TO BE IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS.

11 C-5 TYPICAL CONCRETE SIDEWALK
NOT TO SCALE

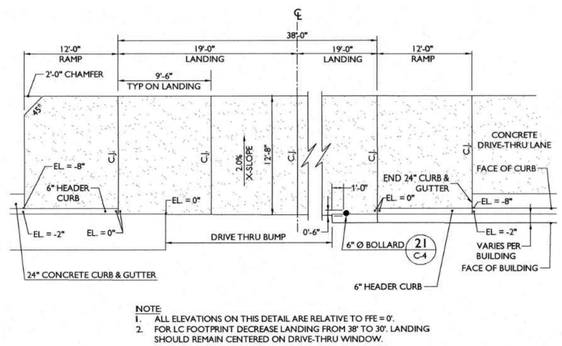


12 C-5 SIDEWALK WITH CURB SECTION
NOT TO SCALE



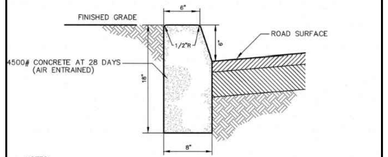
NOTE:
1. GENERAL CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT FOR PAVEMENT SECTION REQUIREMENTS.
2. FOR LC FOOTPRINT DECREASE LANDING FROM 38' TO 30'. LANDING SHOULD REMAIN CENTERED ON DRIVE-THRU WINDOW.

14 C-5 DRIVE-THRU ISOMETRIC
NOT TO SCALE



NOTE
1. ALL ELEVATIONS ON THIS DETAIL ARE RELATIVE TO FFE = 0'.
2. FOR LC FOOTPRINT DECREASE LANDING FROM 38' TO 30'. LANDING SHOULD REMAIN CENTERED ON DRIVE-THRU WINDOW.

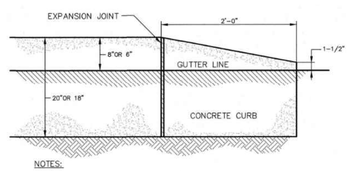
13 C-5 DRIVE-THRU PLAN
NOT TO SCALE



NOTES:
1) EXPANSION JOINTS TO BE 1/2" PREMOLDED, ASPHALT IMPREGNATED, JOINT FILLER MATERIAL, CUT TO FIT CROSS SECTION, RECESSED 1/4" FROM EXPOSED FACES AND ARE TO BE PLACED IN TRAVERSE JOINTS 20' O.C. MAX. BETWEEN CURB AND CONCRETE SIDEWALK OR PAVEMENT, AT ALL STRUCTURES, AND AT THE END OF EACH WORK DAY.
2) ALL MATERIALS AND METHODS TO BE IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS.

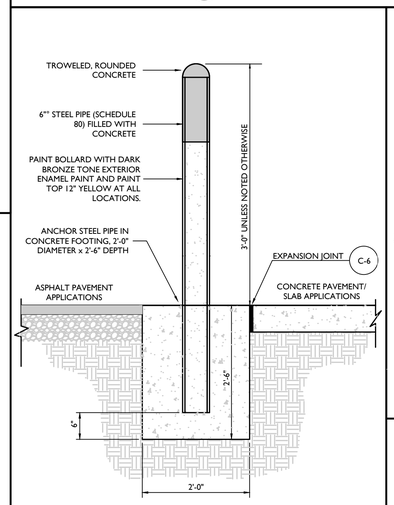
(8"WIDE / 6"REVEAL)

17 C-5 18" CONCRETE CURB
NOT TO SCALE



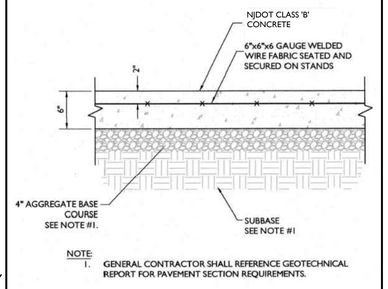
NOTES:
1) EXPANSION MATERIALS TO BE 1/2" PREMOLDED, ASPHALT IMPREGNATED, JOINT FILLER.
2) ALL MATERIALS AND METHODS TO BE IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS.

DEPRESSED NOSE DETAIL
NOT TO SCALE



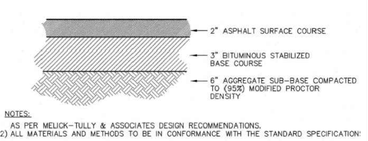
NOTE: BOLLARD HEIGHT SHALL BE 5'-0" AT DRIVE-THRU WINDOW

21 C-5 CONCRETE BOLLARD
NOT TO SCALE



NOTE:
1. GENERAL CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT FOR PAVEMENT SECTION REQUIREMENTS.

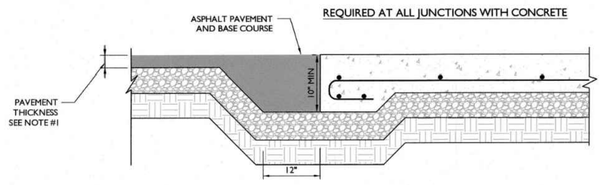
CONCRETE PAVING DRIVE-THRU LANE
26 C-5
NOT TO SCALE



NOTES:
AS PER MELICK-TULLY & ASSOCIATES DESIGN RECOMMENDATIONS.
2) ALL MATERIALS AND METHODS TO BE IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS

(3 LAYER)

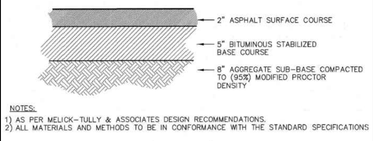
22 C-5 TYPICAL PAVEMENT SECTION
NOT TO SCALE



NOTE:
1. GENERAL CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT FOR PAVEMENT SECTION REQUIREMENTS.

22A C-6 PAVEMENT EDGE DETAIL
NOT TO SCALE

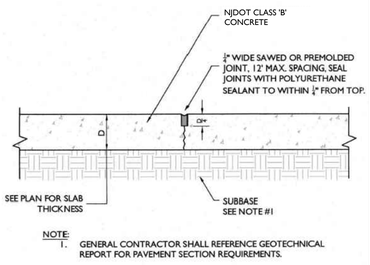
22A C-6 PAVEMENT EDGE DETAIL
NOT TO SCALE



NOTES:
1) AS PER MELICK-TULLY & ASSOCIATES DESIGN RECOMMENDATIONS.
2) ALL MATERIALS AND METHODS TO BE IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS

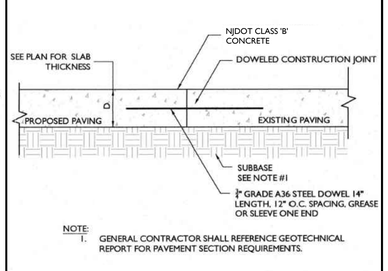
(3 LAYER)

23B C-5 HEAVY DUTY PAVEMENT SECTION
NOT TO SCALE



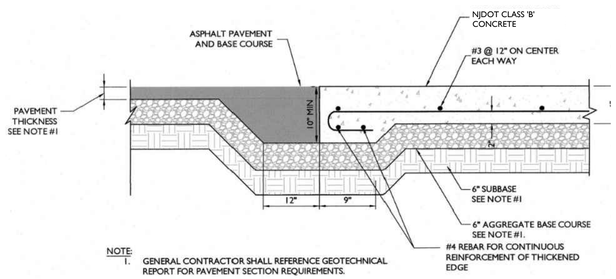
NOTE:
1. GENERAL CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT FOR PAVEMENT SECTION REQUIREMENTS.

TRANSVERSE AND LONGITUDINAL CONTRACTION JOINT
23 C-5
NOT TO SCALE



NOTE:
1. GENERAL CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT FOR PAVEMENT SECTION REQUIREMENTS.

TRANSVERSE AND LONGITUDINAL DOWELED CONSTRUCTION JOINT
24 C-5
NOT TO SCALE



NOTE:
1. GENERAL CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT FOR PAVEMENT SECTION REQUIREMENTS.

25 C-5 CONCRETE APRON @ TRASH ENCLOSURE
NOT TO SCALE

INFORMATION SHOWN HEREON IS TAKEN FROM A PLAN SET ENTITLED "CHICK-FIL-A, TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY BLOCK 201, LOTS 11-14 TAX MAP 22, 17.89± ACRES" DATED MARCH 30, 2020 AND REVISED THROUGH MAY 20, 2021, PREPARED BY GREGORY S. OMAN PE #43441 OF NEW JERSEY OF MENLO ENGINEERING ASSOCIATES.

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5200 Buffington Road
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30349-2998
Telephone 404-765-8000

REV	DATE	DESCRIPTION	DRAWN BY

Seal

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Phone: 732-383-1950

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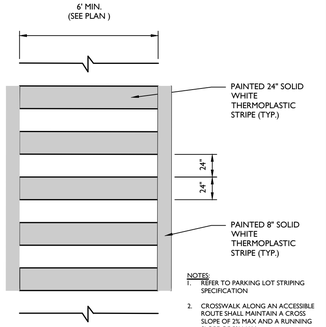
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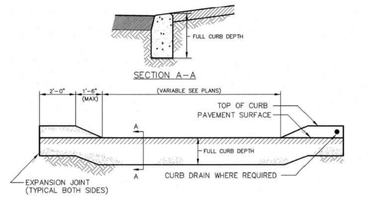
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Sheet
C 5

2019\19003093A\Bid Set\Engineering Drawings\engineering\xcite plans\C015.dwg\C 5 Construction Details By: PCRICHLOW

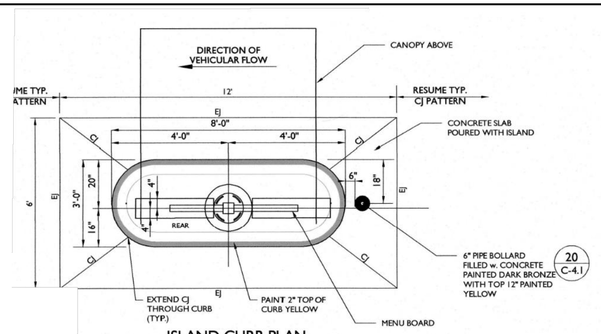


29 C-6 PAINTED CROSS WALK
NOT TO SCALE



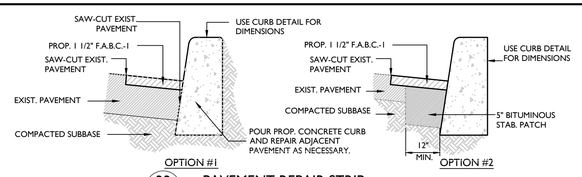
NOTES:
1) ALL MATERIALS AND METHODS TO BE IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS.

34 C-6 CURB CUT FLUSH CURB
NOT TO SCALE

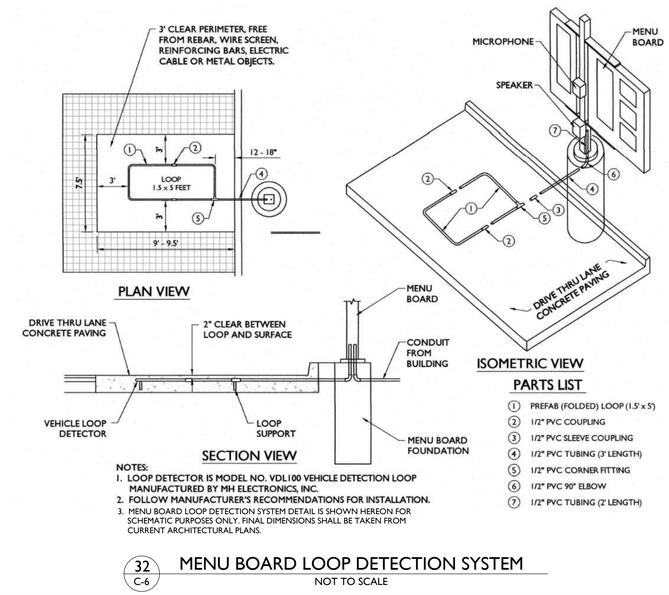


NOTES:
1. DRIVE-THRU ORDER MENU BOARD WITHIN CURBED ISLAND DETAIL IS SHOWN HEREON FOR SCHEMATIC PURPOSES ONLY. FINAL DIMENSIONS SHALL BE TAKEN FROM CURRENT ARCHITECTURAL PLANS.

30 C-6 DRIVE THRU ORDER POINT ISLAND CURB
NOT TO SCALE



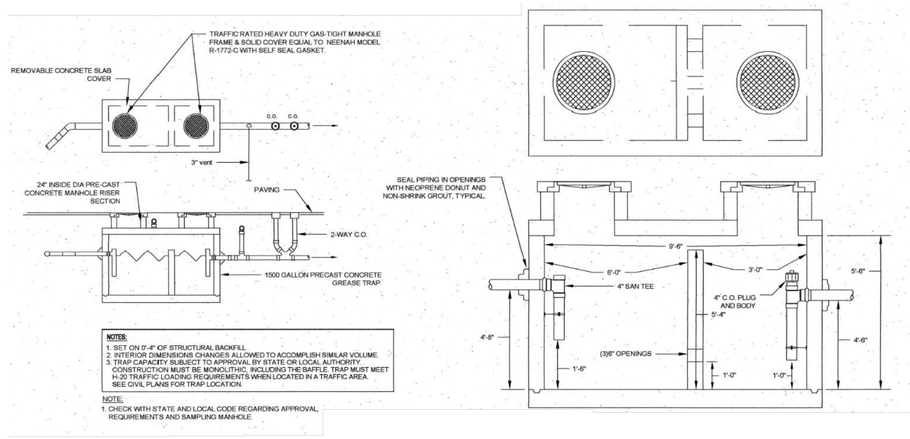
33 C-6 PAVEMENT REPAIR STRIP
NOT TO SCALE



PARTS LIST
1. PREFAB (FOLDED) LOOP (1.5' x 5')
2. 1/2" PVC COUPLING
3. 1/2" PVC SLEEVE COUPLING
4. 1/2" PVC TUBING (3' LENGTH)
5. 1/2" PVC CORNER FITTING
6. 1/2" PVC 90° ELBOW
7. 1/2" PVC TUBING (2' LENGTH)

NOTES:
1. LOOP DETECTOR IS MODEL NO. VDL100 VEHICLE DETECTION LOOP MANUFACTURED BY MH ELECTRONICS, INC.
2. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.
3. MENU BOARD LOOP DETECTION SYSTEM DETAIL IS SHOWN HEREON FOR SCHEMATIC PURPOSES ONLY. FINAL DIMENSIONS SHALL BE TAKEN FROM CURRENT ARCHITECTURAL PLANS.

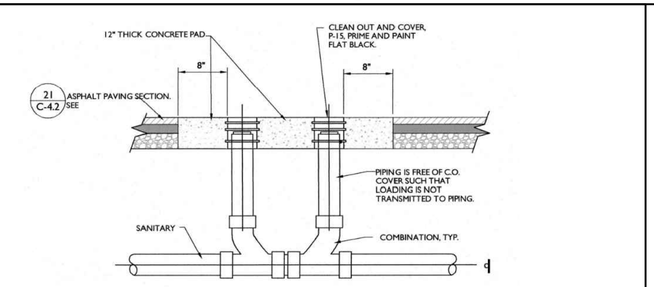
32 C-6 MENU BOARD LOOP DETECTION SYSTEM
NOT TO SCALE



NOTE:
1. SET ON 0'-4" OF STRUCTURAL BACKFILL.
2. INTERIOR DIMENSIONS CHANGES ALLOWED TO ACCOMPLISH SIMILAR VOLUME.
3. TRAP CAPACITY SUBJECT TO APPROVAL BY STATE OR LOCAL AUTHORITY. CONSTRUCTION MUST BE MONOLITHIC, INCLUDING THE BAFFLE. TRAP MUST MEET H-20 TRAFFIC LOADING REQUIREMENTS WHEN LOCATED IN A TRAFFIC AREA. SEE CIVIL PLANS FOR TRAP LOCATION.

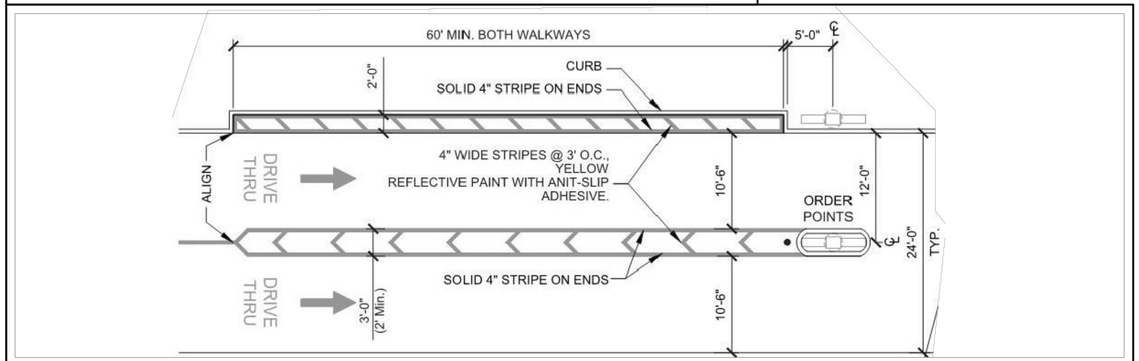
NOTE:
1. CHECK WITH STATE AND LOCAL CODE REGARDING APPROVAL REQUIREMENTS AND SAMPLING MANHOLE.

35 C-6 GREASE INTERCEPTOR
NOT TO SCALE



NOTES:
1. SEE PLUMBING PLANS FOR GREASE TRAP DETAIL
2. CLEAN OUT COVERS SHALL BE PROVIDED ON ALL CLEANOUTS REGARDLESS OF LOCATION.
3. CONCRETE COLLAR ALSO REQUIRED FOR SINGLE CLEANOUTS IN PAVEMENT

36 C-6 SAN. C.O. OUTSIDE BUILDING
NOT TO SCALE



51 C-6 DRIVE-THRU STRIPING
NOT TO SCALE

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Atlanta, Georgia
30349-2998
Telephone 404-765-8000

DRAWN BY | DESCRIPTION | DATE | REV

Seal

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NEW JERSEY

BID SET

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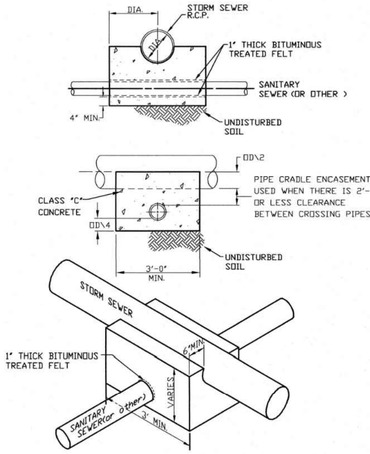
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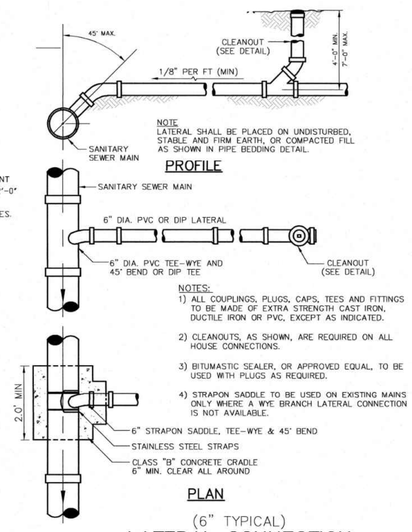
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2019\19003093A\Bid Set\Engineering Drawings\engineering plans\C-DTLS.dwg|C 6 Construction Details By: PCRICH.CW



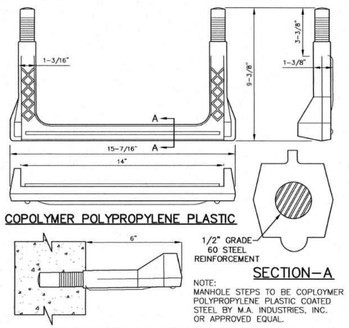
CONCRETE CRADLE ENCASEMENT

N.T.S.



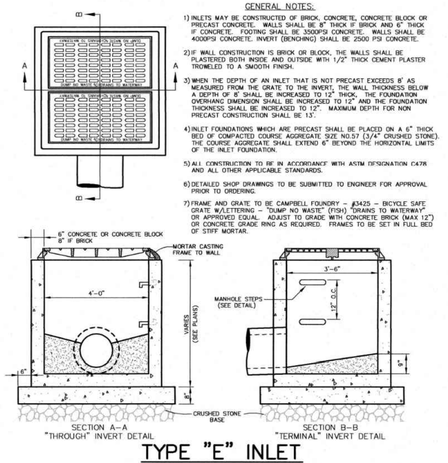
(6" TYPICAL) LATERAL CONNECTION

N.T.S.



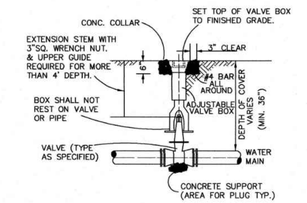
MANHOLE STEP DETAIL

N.T.S.



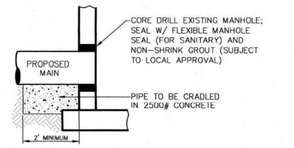
TYPE "E" INLET

N.T.S.



VALVE AND VALVE BOX DETAIL

N.T.S.



CONNECTION TO EXISTING MANHOLE

N.T.S.

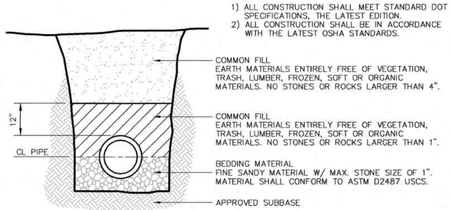
DIAMETER OF PIPE (d)	22 1/2° ELBOW	45° ELBOW	90° ELBOW	TEE CONNECTION	45° OWYE	PLUG
	A	A	A	A	A	A
4"	0.5	1.4	2.6	1.8	2.2	2.0
6"	1.5	3.0	6.0	4.0	4.5	4.5
8"	2.5	5.0	9.5	6.5	9.5	8.0
10"	4.1	8.0	13.0	9.5	12.5	12.5
12"	5.5	11.5	19.0	13.5	16.0	18.0
16"	9.0	18.0	33.0	23.0	27.0	32.0
20"	14.0	28.0	51.0	36.0	42.0	50.5

A–CONTACT BEARING AREA OF BLOCK WITH EARTH, SQUARE FEET

NOTES:
1. BEARING AREAS ARE BASED ON UNDISTURBED SOIL WITH A BEARING CAPACITY OF 1,000 POUNDS PER SQUARE FOOT FOR A LESSER SOIL BEARING CAPACITY THESE AREAS SHALL BE INCREASED ACCORDINGLY.
2. ALL CONCRETE THRUST BLOCKS SHALL BE CLASS "B" CONCRETE.
3. THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED EARTH.
4. NO JOINT SHALL BE COVERED WITH CONCRETE.
5. APPROVED MECHANICAL JOINT RESTRAINTS ARE REQUIRED AT ALL VERTICAL BENDS AND MAY BE USED IN LIEU OF THRUST BLOCKS AT HORIZONTAL BENDS AT THE OPENING OF THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.
6. A BITUMASTIC COATING SHALL BE APPLIED TO ALL BOLTS, NUTS, WASHERS, RODS, THRUST RESTRAINT BOLTS AND ALL UNCOATED HARDWARE.
7. 6 MIL. POLY SHEATHING SHALL BE PLACED BETWEEN FITTINGS AND CONCRETE THRUST BLOCKS.

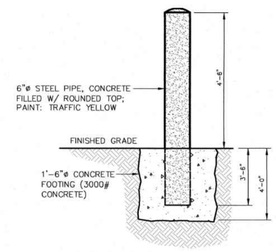
TABLE OF THRUST BLOCKS

N.T.S.



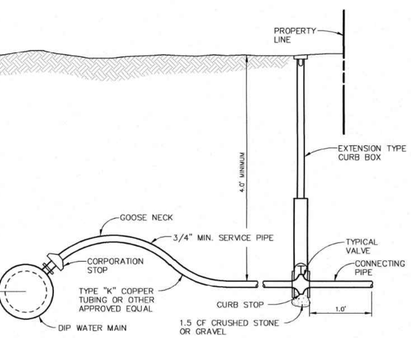
(WATER MAIN)
TRENCH DETAIL

N.T.S.



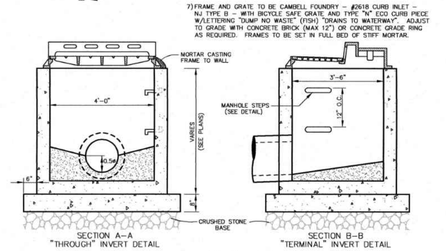
PIPE BOLLARD

N.T.S.



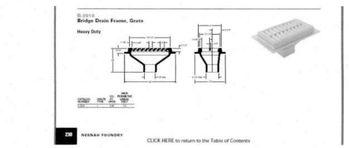
MANHOLE FRAME AND COVER

N.T.S.



TYPE "B" INLET

N.T.S.



SCUPPER DRAIN INLET

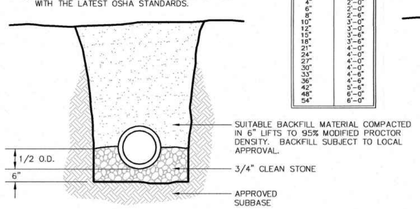
N.T.S.

HOUSE SERVICE CONNECTION

N.T.S.

GENERAL NOTES:
1) ALL CONSTRUCTION SHALL MEET STANDARD DOT SPECIFICATIONS, THE LATEST EDITION.
2) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST OSHA STANDARDS.

PIPE DIAMETER	TRENCH WIDTH
4"	2'-0"
6"	2'-0"
8"	2'-0"
10"	2'-0"
12"	2'-0"
15"	2'-0"
18"	2'-6"
21"	2'-6"
24"	3'-0"
27"	3'-0"
30"	3'-6"
36"	4'-0"
42"	4'-6"
48"	5'-0"
54"	6'-0"

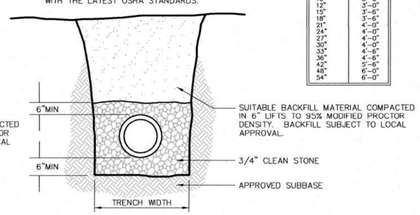


(STORM SEWER)
TRENCH DETAIL 'A'

N.T.S.

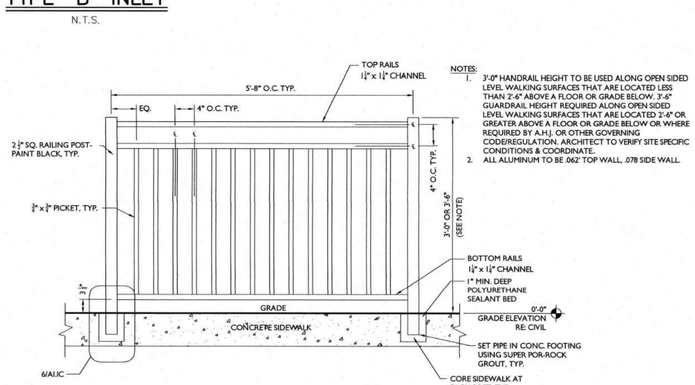
GENERAL NOTES:
1) ALL CONSTRUCTION SHALL MEET STANDARD DOT SPECIFICATIONS, THE LATEST EDITION.
2) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST OSHA STANDARDS.

PIPE DIAMETER	TRENCH WIDTH
6"	2'-0"
8"	2'-0"
10"	2'-0"
12"	2'-0"
15"	2'-0"
18"	2'-6"
21"	3'-0"
24"	3'-0"
27"	3'-0"
30"	3'-6"
36"	4'-0"
42"	4'-6"
48"	5'-0"
54"	6'-0"



(SANITARY SEWER)
TRENCH DETAIL 'A'

N.T.S.



NOTES:
1. 3'-0" HANDRAIL HEIGHT TO BE USED ALONG OPEN SIDED LEVEL WALKING SURFACES THAT ARE LOCATED LESS THAN 2'-6" ABOVE A FLOOR OR GRADE BELOW. 3'-6" GUARDRAIL HEIGHT REQUIRED ALONG OPEN SIDED LEVEL WALKING SURFACES THAT ARE LOCATED 2'-6" OR GREATER ABOVE A FLOOR OR GRADE BELOW OR WHERE REQUIRED BY A.H.J. OR OTHER GOVERNING CODE/REGULATION. ARCHITECT TO VERIFY SITE SPECIFIC CONDITIONS & COORDINATE.
2. ALL ALUMINUM TO BE .062" TOP WALL, .078 SIDE WALL.

27 / C-6 TYPICAL HANDRAIL

INFORMATION SHOWN HEREON IS TAKEN FROM A PLAN SET ENTITLED "CHICK-FIL-A, TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY BLOCK 201, LOTS 11-14 TAX MAP 22, 17.89± ACRES" DATED MARCH 30, 2020 AND REVISED THROUGH MAY 20, 2021, PREPARED BY GREGORY S. OMAN PE #43441 OF NEW JERSEY OF MENLO ENGINEERING ASSOCIATES.

2019\19003093A\Bid Set\Engineering Drawings\engineering\site plans\C-07(LS.dwg)C 7 Construction Details By: PCB\CHLOW

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998
Telephone 404-765-8000

REV	DATE	DESCRIPTION	DRAWN BY

Seal

Colliers Engineering & Design
www.colliersengineering.com
Doing Business as MASER
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331 Newman Springs Road,
Suite 203
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STORE #04591

BLOCK 201
LOTS LINE 11-14
TOWNSHIP OF
WOODBRIDGE
MIDDLESEX COUNTY
NEW JERSEY

BID SET

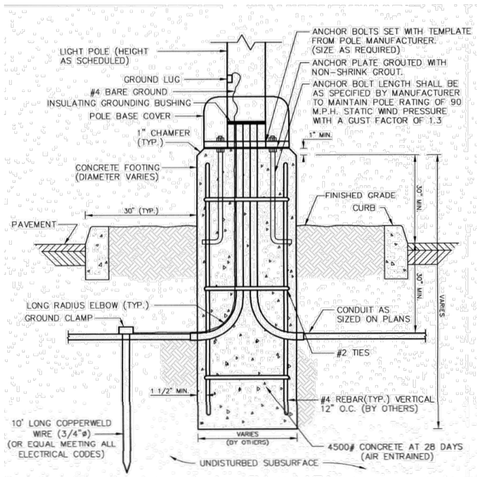
CONSTRUCTION DETAILS

DWG EDITION 2.0

- ■ Preliminary
- □ 80% Submittal
- □ For Construction

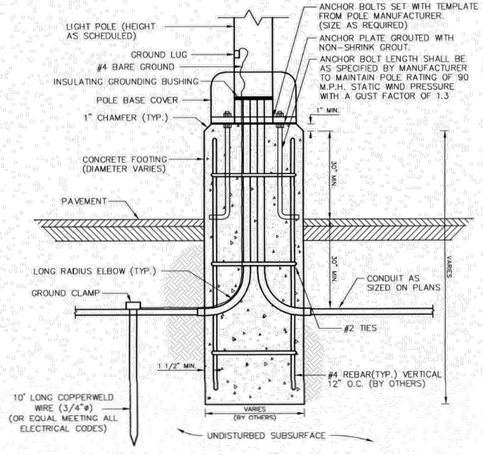
File No.: 19003093A
Store : 04591
Date : 01/10/22
Drawn By: PJC
Checked By: VDK

Sheet
C 7



SITE LIGHTING FIXTURE POLE BASE DETAIL (IN GRASSED ISLANDS)

N.T.S.



SITE LIGHTING FIXTURE POLE BASE DETAIL (IN PAVED AREAS)

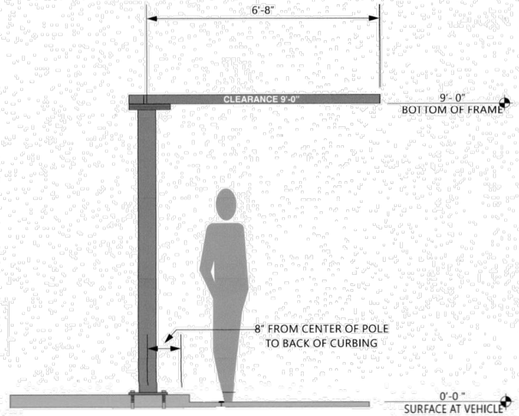
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SPECIFICATIONS

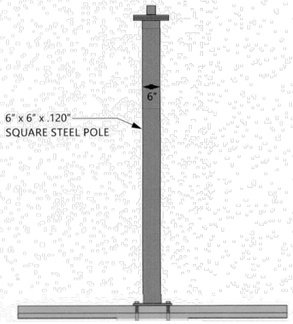
SUPPORT POLE
POLE HAS 13" x 13" x 3/4" THICK STEEL PLATE WITH FOUR(4) 1" DIA. HOLES IN EACH CORNER 2" FROM EACH END AND FOUR (4) ANCHOR BOLTS

METAL SURFACES
DARK BRONZE

GRAPHICS
WHITE HIGH PERFORMANCE VINYL FILM GRAPHICS



ELEVATION
SCALE - 1/2" = 1'- 0"



END VIEW
SCALE - 1/2" = 1'- 0"

CLAYTON Signs 50 YEARS
5198 North Lake Drive
Lake City, GA 30260
404.361.3800
www.claytonsigns.com

DRIVE-THRU CLEARANCE BAR

DRAWING FILE - CTA - EDISON, NJ SIGNAGE.CDR

ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED

DRAWN BY	Ben Holliday
ACCOUNT REP.	Ben Holliday
DRAWING DATE	August 22, 2018
REVISION DATE	

STORE NUMBER: L04148

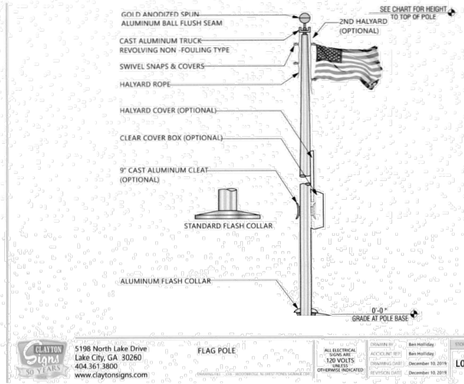
STORE ADDRESS: Chick-fil-A at Edison, NJ; US Highway 1; Edison, NJ

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LOCATION: CB

CHICK-FIL-A DRIVE-THRU CLEARANCE BAR DETAIL

N.T.S.



FLAG SIZES

POLE	A	B	MATERIAL
20'	3'0"	5'0"	POLYESTER
25'	4'0"	6'0"	POLYESTER
30'	5'0"	8'0"	POLYESTER
35'	6'0"	10'0"	POLYESTER
40'	8'0"	12'0"	POLYESTER
45'	8'0"	12'0"	POLYESTER
50'	12'0"	18'0"	POLYESTER

CLAYTON Signs 50 YEARS
5198 North Lake Drive
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404.361.3800
www.claytonsigns.com

FLAG POLE

ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED

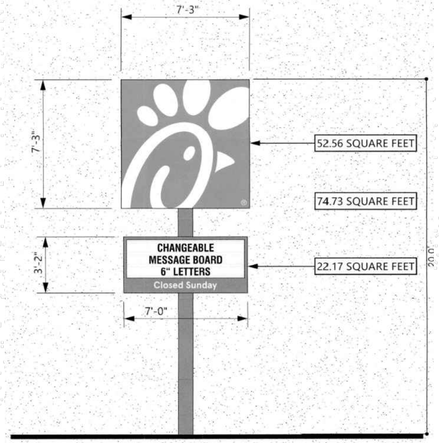
DRAWN BY	Ben Holliday
ACCOUNT REP.	Ben Holliday
DRAWING DATE	December 10, 2019
REVISION DATE	December 10, 2019

STORE NUMBER: L04591

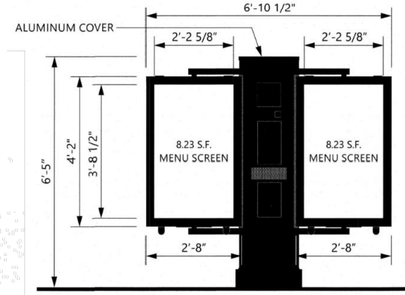
STORE ADDRESS: Chick-fil-A Woodbridge, NJ; West Road; Woodbridge, NJ 07095

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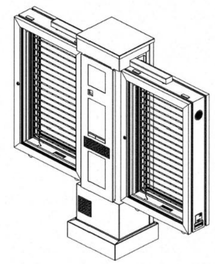
LOCATION: FP



ELEVATION



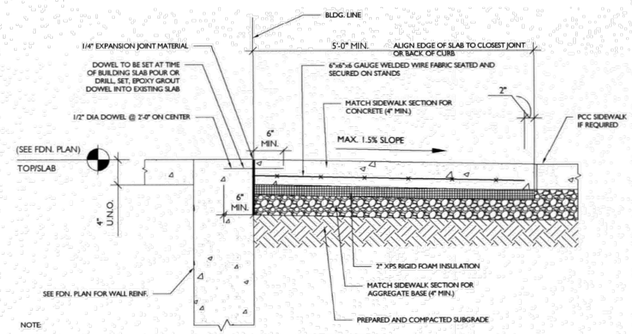
ELEVATION



END VIEW

CHICK-FIL-A DRIVE-THRU MENU BOARD DETAILS

N.T.S.



NOTE:
1. CONTRACTOR HAS THE OPTION TO DRILL SET AND EPOXY GROUT DOWEL IF NOT INSTALLED WHEN THE BUILDING SLAB WAS POURED.
2. REFER TO ARCHITECTURAL DRAWINGS FOR DOOR LOCATIONS. DOOR STOOP SHALL EXTEND 12" PAST EACH SIDE OF DOOR MIN. STOOP IS TO BE SEPARATED ON ALL SIDES WITH 1/4" EXPANSION JOINT MATERIAL, TOPPED WITH SEALANT.
3. USE A 10'X5' SLAB MINIMUM AT A DOUBLE DOOR ENTRY.
4. USE A 5'X5' SLAB MINIMUM AT A SINGLE DOOR ENTRY.
5. DOWELS TO BE INSTALLED INTO THE BUILDING FOUNDATION ONLY. THE REMAINING THREE SIDES OF THE SLAB DO NOT GET TIED TO THE SURROUNDING SIDEWALK.

ENTRY DOOR FROST SLAB DETAIL

NOT TO SCALE

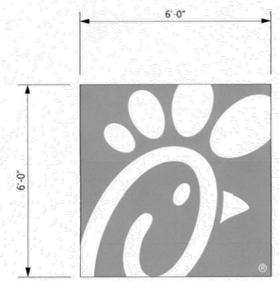
SPECIFICATIONS

CABINET
ALUMINUM CABINET HAS EXTRUDED ALUMINUM

FACES
FLEX FACES DECORATED WITH TRANSLUCENT VINYL FILM ON SURFACE OF ACRYLIC. FACES ARE BACKLIT BY HIGH OUTPUT FLUORESCENT LAMPS SPACED EVENLY ON 8" CENTERS.

FACES
230-53 CARDINAL RED
TRANSLUCENT VINYL FILM
CABINET
GRIPGARD #503 RED GLOSS

WHITE FLEX SUBSTRATE



ELEVATION
SCALE - 1/2" = 1'- 0"

CHICK-FIL-A ICON WALL SIGN DETAIL

N.T.S.

NOTES:
1. ALL SIGNAGE SHOWN HEREON HAS BEEN SHOWN FOR SCHEMATIC PURPOSES ONLY. ALL CONSTRUCTION RELATED DETAILS SHALL BE TAKEN FROM THE INDIVIDUAL SIGNAGE PLANS APPROVED FROM THE MUNICIPALITY.

SPECIFICATIONS

CHICK-FIL-A SCRIPT LETTERS
LETTERS ARE LED-ILLUMINATED CHANNEL LETTERS MOUNTED ON ALUMINUM SURFACE OF BUILDING WITH TRANSFORMERS REMOTELY LOCATED BEHIND THE WALL IN UL APPROVED TRANSFORMER BOXES.
FACES ARE 3/16" ACRYLIC
RETURNS ARE .063 ALUMINUM
BACKS ARE .080 ALUMINUM
ALL RETURNS ARE ARC-WELDED TO LETTER BACKS

CHANNEL LETTER FACES
2793 RED ACRYLIC
TRIMCAP RETAINER-
1" RED JEWELITE TRIMCAP

ALUMINUM RETURNS
PAINTED TO MATCH
SHERWIN WILLIAMS
SW6108 LATTE



ELEVATION
SCALE - 1/2" = 1'- 0"

CHICK-FIL-A SCRIPT SET WALL SIGN DETAIL

N.T.S.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998
Telephone 404-765-8000

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Seal

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Doing Business as MASER CONSULTING
RED BANK (Headquarters)
331 Newman Springs Road, Suite 203
Red Bank, NJ 07701
Phone: 732.383.1950

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STORE #04591

BLOCK 201
LOTS LINE 11-14
TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY
NEW JERSEY

BID SET

CONSTRUCTION DETAILS

DWG EDITION 2.0

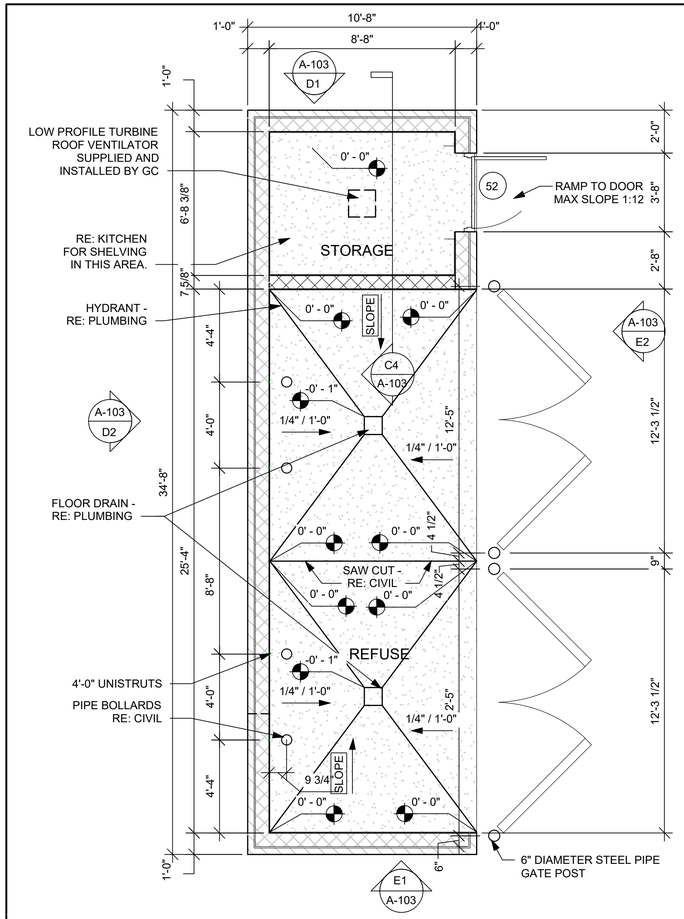
- ■ Preliminary
- ☐ 80% Submittal
- ☐ For Construction

File No.: 19003093A
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Date : 01/10/22
Drawn By: PJC
Checked By: VDK

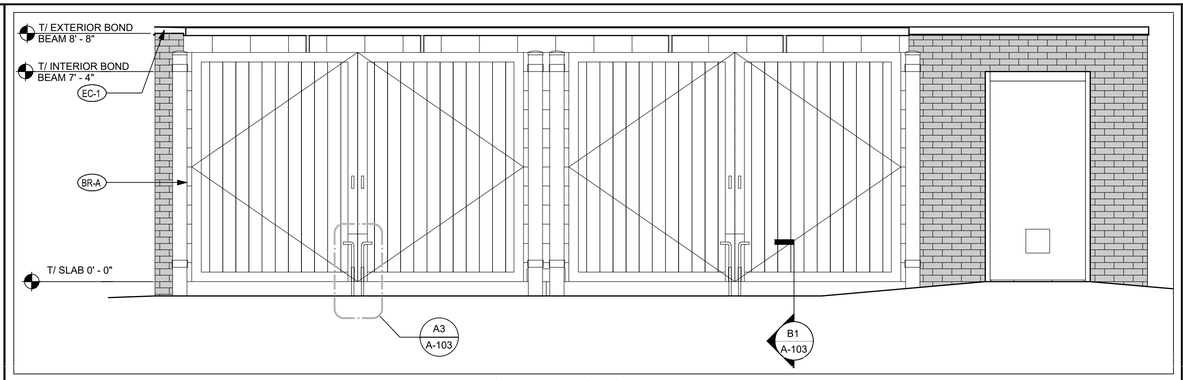
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C 8

2019\19003093A\Bid Set\Engineering\Drawings\engineering\site plans\C-DTLS.dwg|C 8 Construction Details By: PJCRICHLOW

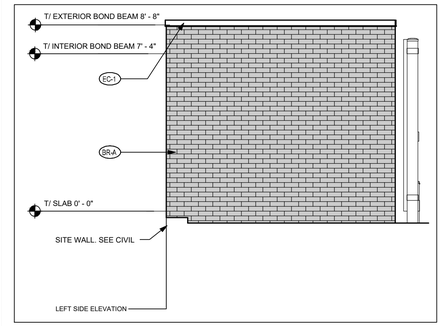
INFORMATION SHOWN HEREON IS TAKEN FROM A PLAN SET ENTITLED "CHICK-FIL-A, TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY BLOCK 201, LOTS 11-14 TAX MAP 22, 17.89± ACRES" DATED MARCH 30, 2020 AND REVISED THROUGH MAY 20, 2021, PREPARED BY GREGORY S. OMAN PE #43441 OF NEW JERSEY OF MENLO ENGINEERING ASSOCIATES.



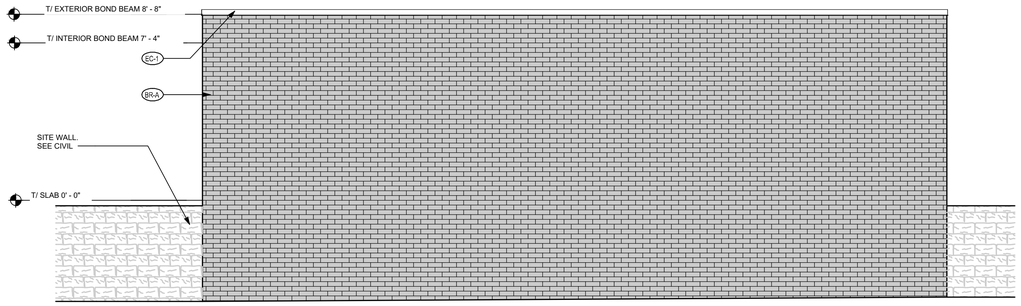
D3 REFUSE ENCLOSURE PLAN
NOT TO SCALE



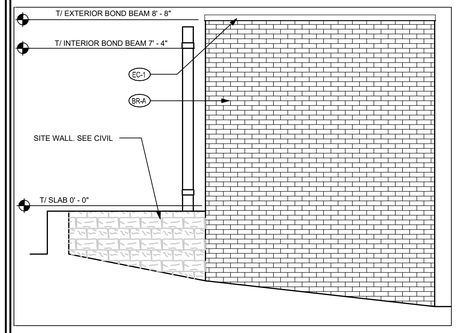
E2 FRONT ELEVATION
NOT TO SCALE



E1 LEFT SIDE ELEVATION
NOT TO SCALE



C2 REAR ELEVATION
NOT TO SCALE



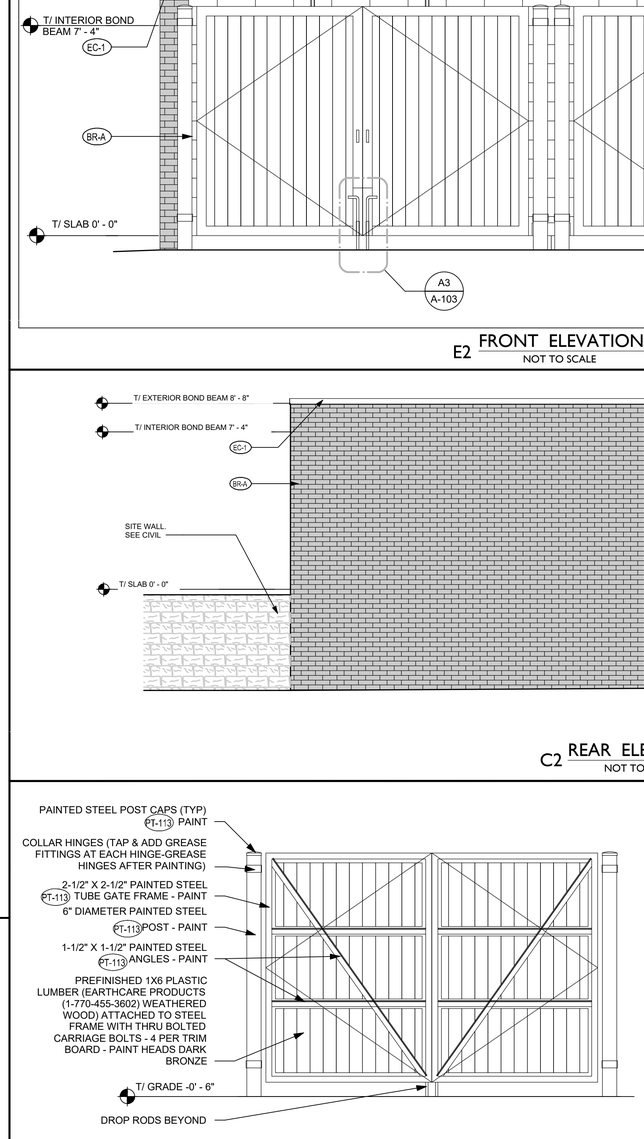
D1 RIGHT SIDE ELEVATION
NOT TO SCALE

A4 REFUSE ENCLOSURE DROP ROD 3-D DETAIL
NOT TO SCALE

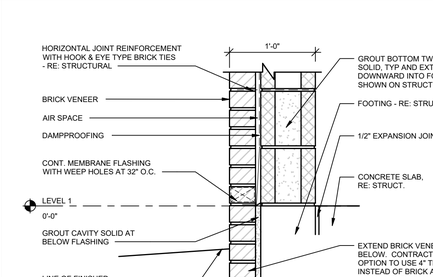
A3 REFUSE ENCLOSURE DROP ROD 3-D DETAIL
NOT TO SCALE

C3 REFUSE ENCLOSURE DOOR HEAD DETAIL
NOT TO SCALE

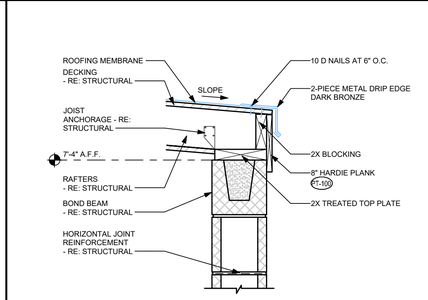
B2 REFUSE ENCLOSURE DOOR JAMB DETAIL
NOT TO SCALE



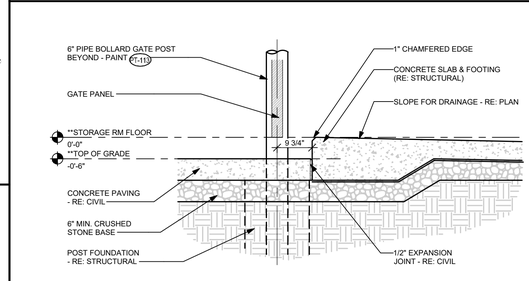
A2 REFUSE ENCLOSURE GATE REAR ELEVATION
NOT TO SCALE



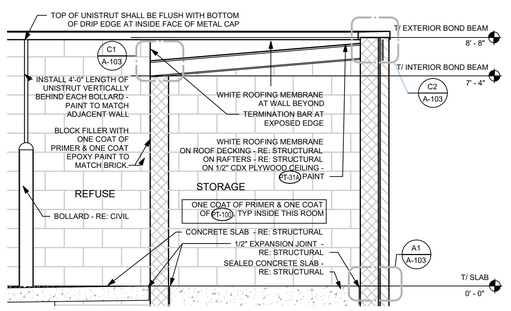
A1 REFUSE ENCLOSURE BASE DETAIL
NOT TO SCALE



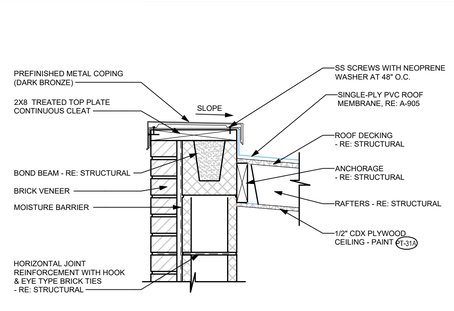
C1 REFUSE ENCLOSURE DRIP EDGE
NOT TO SCALE



B1 REFUSE PAD AT CONCRETE PAVING DETAIL
NOT TO SCALE



C4 REFUSE ENCLOSURE SECTION
NOT TO SCALE



C2 REFUSE ENCLOSURE ROOF EDGE DETAIL
NOT TO SCALE

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Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998
Telephone 404-765-8000

REV	DATE	DESCRIPTION	DRAWN BY

Seal

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STORE #04591

BLOCK 201
LOTS LINE 11-14
TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY
NEW JERSEY

BID SET

REFUSE ENCLOSURE DETAIL

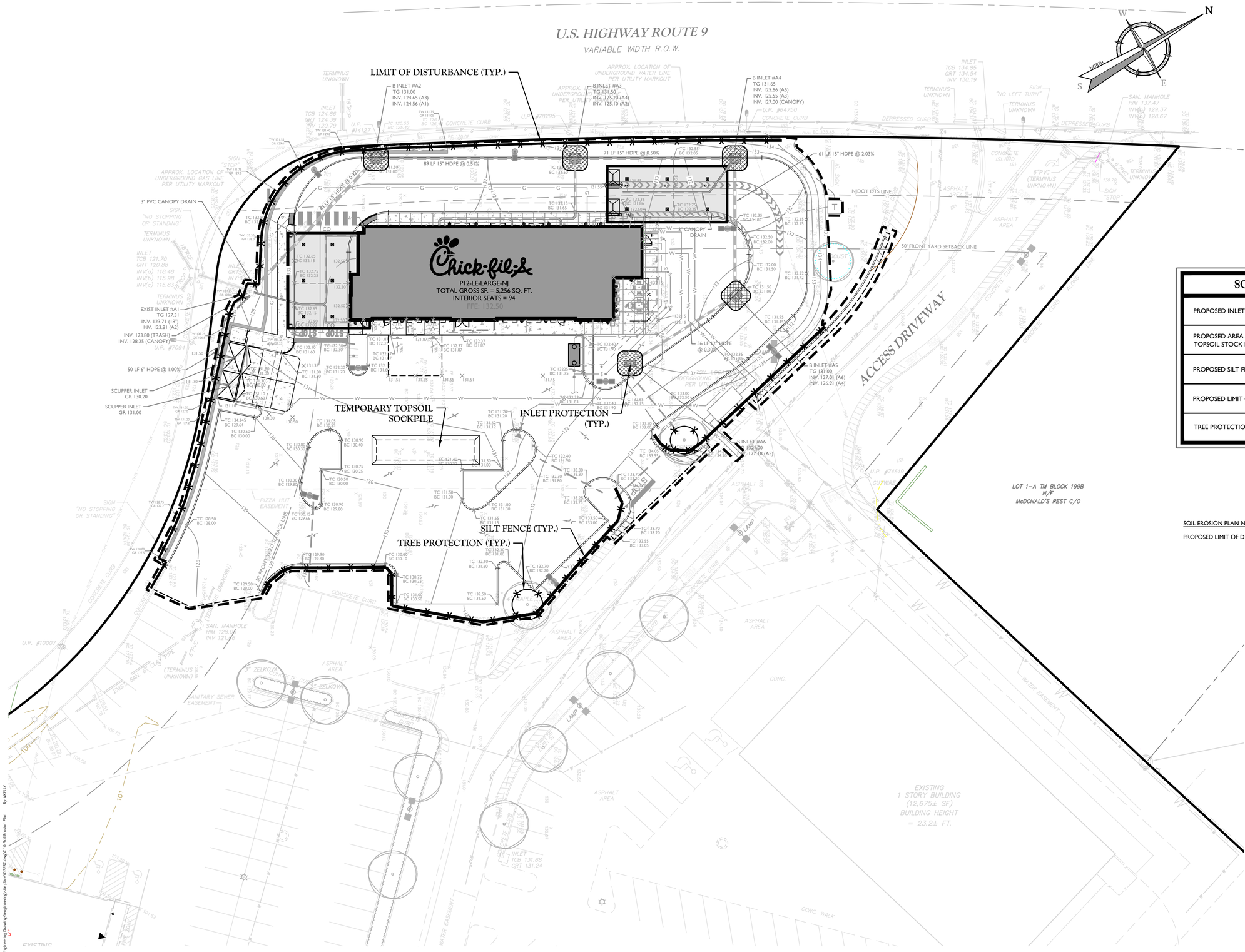
DWG EDITION 2.0

- ■ Preliminary
- □ 80% Submittal
- □ For Construction

File No.: 19003093A
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Date : 01/21/22
Drawn By: PJC
Checked By: VDK

Sheet
C 9

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SOIL EROSION LEGEND

PROPOSED INLET FILTER	
PROPOSED AREA OF TEMPORARY TOPSOIL STOCK PILE	
PROPOSED SILT FENCE	
PROPOSED LIMIT OF DISTURBANCE	
TREE PROTECTION FENCE	

SOIL EROSION PLAN NOTE:

PROPOSED LIMIT OF DISTURBANCE = 48,875 SF (1.12 AC.)

SCALE : 1" = 20'

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2019\19003093A\Bid Set\Engineering\Drawings\engineering\site plans\C-SESC.dwg|C 10 Soil Erosion Plan By:MKELLY

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STORE #04591

BLOCK 201
LOTS LINE 11-14
TOWNSHIP OF
WOODBRIDGE
MIDDLESEX COUNTY
NEW JERSEY

BID SET

SOIL EROSION PLAN

DWG EDITION 2.0

- [x] Preliminary
- [ ] 80% Submittal
- [ ] For Construction

File No.: 19003093A
Store : 04591
Date : 01/21/22
Drawn By: PJC
Checked By: VDK

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STANDARD FOR PERMANENT VEGETATIVE COVER

1. SITE PREPARATION

A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING.

B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING.

C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING.

D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.

2. SEEDBED PREPARATION

A. UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS BEEN SPREAD AND FIRMED, ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES (HTTP://NJAES.RUTGERS.EDU/COUNTY/). FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED, APPLY ONE-HALF THE RATE DESCRIBED ABOVE DURING SEEDBED PREPARATION AND REPEAT ANOTHER ONE-HALF RATE APPLICATION OF THE SAME FERTILIZER WITHIN 3 TO 5 WEEKS AFTER SEEDING.

B. WORK LIME AND FERTILIZER INTO THE TOPSOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING-TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL ARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.

C. HIGH ACID PRODUCING SOIL: SOILS HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR MORE BEFORE INITIATING SEEDBED REPARATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID-PRODUCING SOILS FOR SPECIFIC REQUIREMENTS.

3. SEEDING

A. SELECT A MIXTURE FROM TABLE 4–2 OR USE A MIXTURE RECOMMENDED BY RUTGERS COOPERATIVE EXTENSION OR NATURAL RESOURCES CONSERVATION SERVICE WHICH IS APPROVED BY THE SOIL CONSERVATION DISTRICT. SEED GERMINATION SHALL HAVE BEEN TESTED WITHIN 12 MONTHS OF THE PLANTING DATE. NO SEED SHALL BE ACCEPTED WITH A GERMINATION TEST DATE MORE THAN 12 MONTHS OLD UNLESS RETESTED.

1. SEEDING RATES SPECIFIED ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UP TO 50% REDUCTION IN RATES MAY BE USED WHEN PERMANENT VEGETATION IS ESTABLISHED PRIOR TO A REPORT OF COMPLIANCE INSPECTION. THESE RATES APPLY TO ALL METHODS OF SEEDING. ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATIVE COVERAGE WITH THE SPECIFIED SEED MIXTURE FOR THE SEEDED AREA AND MOWED ONCE.

2. WARM–SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT HIGH TEMPERATURES, GENERALLY 85°F AND ABOVE. SEE TABLE 4–2 MIXTURES 1 TO 7. PLANTING RATES FOR WARM–SEASON GRASSES SHALL BE THE AMOUNT OF PURE LIVE SEED (PLS) AS DETERMINED BY GERMINATION TESTING RESULTS.

3. COOL–SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT TEMPERATURES BELOW 85°F. MANY GRASSES BECOME ACTIVE AT 65OF. SEE TABLE 4–2, MIXTURES 8–20. ADJUSTMENT OF PLANTING RATES TO COMPENSATE FOR THE AMOUNT OF PLS IS NOT REQUIRED FOR COOL SEASON GRASSES.

B. CONVENTIONAL SEEDING IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE–TEXTURED SOIL.

C. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED–TO–SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.

D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK, OR TRAILER–MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT– FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4–MULCHING BELOW). HYDROSEEDING IS NOT A REFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS, THERE IS A REDUCED SEED GERMINATION AND GROWTH.

4. MULCHING

MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL PROTECT AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT.

A. STRAW OR HAY. UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, TO BE APPLIED AT THE RATE OF 1–1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH–BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER–BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.

APPLICATION – SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT AT LEAST 85% OF THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND–SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.

ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS.

1. PEG AND TWINE. DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS–CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.

2. MULCH NETTINGS – STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.

3. CRIMPER (MULCH ANCHORING COULTER TOOL) – A TRACTOR–DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.

4. LIQUID MULCH–BINDERS – MAY BE USED TO ANCHOR SALT HAY, HAY OR STRAW MULCH.

(a) APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND MAY CATCH THE MULCH, IN VALLEYS, AND AT CRESTS OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE.

(b) USE ONE OF THE FOLLOWING:

(1) ORGANIC AND VEGETABLE BASED BINDERS – NATURALLY OCCURRING, POWDER–BASED, HYDROPHILIC MATERIALS WHEN MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOTOXIC EFFECT OR IMPEDE GROWTH OF TURF GRASS. USE AT RATES AND WEATHER CONDITIONS AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH MATERIALS. MANY NEW PRODUCTS ARE AVAILABLE; SOME OF WHICH MAY NEED FURTHER EVALUATION FOR USE IN THIS STATE.

(2) SYNTHETIC BINDERS – HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN DILUTED AND, FOLLOWING APPLICATION OF MULCH, DRYING AND CURING, SHALL NO LONGER BE SOLUBLE OR DISPERSIBLE IN WATER. BINDER SHALL BE APPLIED AT RATES RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS.

NOTE: ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A RECOMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS.

B. WOOD–FIBER OR PAPER–FIBER MULCH – SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS AND IS USED AT THE RATE OF 1,500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PRODUCT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.

C. PELLETIZED MULCH – COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO–POLYMERS, TACKIFIERS, FERTILIZERS, AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60–75 LBS/1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS, SEEDED AREAS WHERE WEED–SEED FREE MULCH IS DESIRED, OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE. APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE.

APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE.

5. IRRIGATION (WHERE FEASIBLE)

IF SOIL MOISTURE IS DEFICIENT SUPPLY NEW SEEDING WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH APPLIED UP TO TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE IN ABNORMALLY DRY OR HOT WEATHER OR ON DROUGHTY SITES.

6. TOPDRESSING

SINCE SOIL ORGANIC MATTER CONTENT AND SLOW RELEASE NITROGEN FERTILIZER (WATER INSOLUBLE) ARE PRESCRIBED IN SECTION 2A – SEEDBED PREPARATION IN THIS STANDARD, NO FOLLOW–UP OF TOPDRESSING IS MANDATORY. AN EXCEPTION MAY BE MADE WHERE GROSS NITROGEN DEFICIENCY EXISTS IN THE SOIL TO THE EXTENT THAT TURF FAILURE MAY DEVELOP. IN THAT INSTANCE, TOPDRESS WITH 10–10–10 OR EQUIVALENT AT 300 POUNDS PER ACRE OR 7 POUNDS PER 1,000 SQUARE FEET EVERY 3 TO 5 WEEKS UNTIL THE GROSS NITROGEN DEFICIENCY IN THE TURF IS AMELIORATED.

7. ESTABLISHING PERMANENT VEGETATIVE STABILIZATION

THE QUALITY OF PERMANENT VEGETATION RESTS WITH THE CONTRACTOR. THE TIMING OF SEEDING, PREPARING THE SEEDBED, APPLYING NUTRIENTS, MULCH AND OTHER MANAGEMENT ARE ESSENTIAL. THE SEED APPLICATION RATES IN TABLE 4–2 ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UP TO 50% REDUCTION IN APPLICATION RATES MAY BE USED WHEN PERMANENT VEGETATION IS ESTABLISHED PRIOR TO REQUESTING A REPORT OF COMPLIANCE FROM THE DISTRICT. THESE RATES APPLY TO ALL METHODS OF SEEDING. ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATIVE COVER (OF THE SEEDED SPECIES) AND MOWED ONCE. NOTE: THIS DESIGNATION OF MOWED ONCE DOES NOT GUARANTEE THE PERMANENCY OF THE TURF SHOULD OTHER MAINTENANCE FACTORS BE NEGLECTED OR OTHERWISE MISMANAGED.

CONSTRUCTION SEQUENCE

CONSTRUCTION COMMENCEMENT DATE: FALL 2020

1.	INSTALLATION OF SILT FENCE ALONG LIMIT OF DISTURBANCE LINE AT SECTION DELINEATED ON "SOIL EROSION CONTROL PLANS" – INSTALLATION OF STONE AT CONSTRUCTION ENTRANCES –	2 DAY(S) 1 DAY(S)
2.	CLEARING AND GRUBBING –	2 DAY(S)
3.	ROUGH GRADING AND TEMPORARY SEEDING –	2 WEEK(S)
4.	INSTALLATION OF UTILITIES AND FOUNDATIONS WITH EROSION CONTROL DEVICES (TEMPORARY SEEDING, INLET PROTECTION AND TEMPORARY STABILIZATION). –	4 WEEK(S)
5.	CURBING –	2 WEEK(S)
6.	PAVEMENT SUB–BASE –	3 WEEK(S)
7.	FINISHED GRADING AND LIGHTING –	3 WEEK(S)
8.	FINAL PAVEMENT –	1 WEEK
9.	LANDSCAPING WITH PERMANENT SEEDING –	3 WEEK(S)

NOTE: AS C.O.'S FOR INDIVIDUAL BUILDING ARE APPLIED FOR, ALL SITE WORK AROUND THE BUILDING TO BE COMPLETED (No. 10 SUBJECT TO WEATHER CONDITIONS AND TO BE COMPLETED WITHIN 6 MONTHS).

THE ABOVE SCHEDULE SUBJECT TO WEATHER CONDITIONS AND MATERIAL AVAILABILITY.

STANDARD FOR TEMPORARY VEGETATIVE COVER

1. SITE PREPARATION

A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING, PG. 19–1.

B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.

C. IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).

2. SEEDBED PREPARATION

A. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO–OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10–20–10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES.

B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.

C. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED IN ACCORDANCE WITH THE ABOVE.

D. SOILS HIGH IN SULFIDES OR HAVING A PH OF 4 OR LESS REFER TO STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, PG. 1–1.

3. SEEDING

A. SELECT SEED FROM RECOMMENDATIONS IN TABLE 7–2.

B. CONVENTIONAL SEEDING. APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL, TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL.

C. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT–FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4 MULCHING BELOW). HYDROSEEDING IS NOT A REFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS, THERE IS A REDUCED SEED GERMINATION AND GROWTH HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC.

D. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED–TO–SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.

4. MULCHING

MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT.

A. STRAW OR HAY. UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, APPLIED AT THE RATE OF 1–1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH–BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER–BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.

APPLICATION. SPREAD MULCH UNIFORMLY. BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 95% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND–SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.

ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS:

1. PEG AND TWINE. DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS–CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.

2. MULCH NETTINGS – STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.

3. CRIMPER (MULCH ANCHORING COULTER TOOL) – A TRACTOR–DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.

4. LIQUID MULCH–BINDERS – MAY BE USED TO ANCHOR SALT HAY, HAY OR STRAW MULCH.

(a) APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND MAY CATCH THE MULCH, IN VALLEYS, AND AT CRESTS OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE.

(b) USE ONE OF THE FOLLOWING:

(1) ORGANIC AND VEGETABLE BASED BINDERS – NATURALLY OCCURRING, POWDER–BASED, HYDROPHILIC MATERIALS WHEN MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOTOXIC EFFECT OR IMPEDE GROWTH OF TURF GRASS. USE AT RATES AND WEATHER CONDITIONS AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH MATERIALS. MANY NEW PRODUCTS ARE AVAILABLE; SOME OF WHICH MAY NEED FURTHER EVALUATION FOR USE IN THIS STATE.

(2) SYNTHETIC BINDERS – HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN DILUTED AND, FOLLOWING APPLICATION OF MULCH, DRYING AND CURING, SHALL NO LONGER BE SOLUBLE OR DISPERSIBLE IN WATER. BINDER SHALL BE APPLIED AT RATES RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS.

NOTE: ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A RECOMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS.

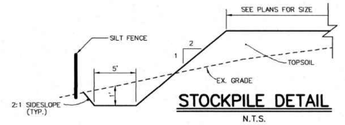
B. WOOD–FIBER OR PAPER–FIBER MULCH – SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS AND IS USED AT THE RATE OF 1,500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PRODUCT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.

C. PELLETIZED MULCH – COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO–POLYMERS, TACKIFIERS, FERTILIZERS, AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60–75 LBS/1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS, SEEDED AREAS WHERE WEED–SEED FREE MULCH IS DESIRED, OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE. APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE.

TABLE 7–2

TEMPORARY VEGETATIVE STABILIZATION GRASSES, SEEDING RATES, DATES AND DEPTH.

SEED SELECTIONS	SEEDING RATE (pounds)		OPTIMUM SEEDING DATE Based on Plant Hardiness Zone 3			OPTIMUM SEED DEPTH [4] (inches)
	Per Acre	Per 1000 Sq. Ft.	ZONE 5b, 6a	ZONE 6b	ZONE 7a, b	
COOL SEASON GRASSES						
1. PERENNIAL RYEGRASS	100	1.0	3/15– 6/1 8/1– 9/15	3/1– 5/15 8/15– 10/1	2/15– 5/1 8/15– 10/15	0.5
2. SPRING OATS	86	2.0	3/15– 6/1 8/1– 9/15	3/1– 5/15 8/15– 10/1	2/15– 5/1 8/15– 10/15	1.0
3. WINTER BARLEY	96	2.2	8/1– 9/15	8/15– 10/1	8/15– 10/15	1.0
4. ANNUAL RYEGRASS	100	1.0	3/15– 6/1 8/1– 9/15	3/15– 6/1 8/1– 9/15	2/15– 5/1 8/15– 10/15	0.5
5. WINTER CEREAL RYE	112	2.8	8/1– 11/1	8/15– 11/15	8/15– 12/15	1.0
WARM SEASON GRASSES						
6. PEARL MILLET	20	0.5	6/1– 8/1	5/15– 8/15	5/1– 9/1	1.0
7. MILLET (GERMAN OR HUNGARIAN)	30	0.7	6/1– 8/1	5/15– 8/15	5/1– 9/1	1.0

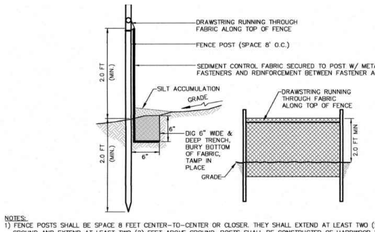


STOCKPILE DETAIL

N.T.S.

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. THE FREEHOLD SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED FORTY–EIGHT (48) HOURS IN ADVANCE OF ANY SOIL DISTURBING ACTIVITY.
2. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
3. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RE–CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS.
4. N.J.S.A 4:24–39 ET. SEQ. REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THE DISTRICT DETERMINES THAT A PROJECT OR PORTION THEREOF IS IN FULL COMPLIANCE WITH THE CERTIFIED PLAN AND STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN THE NEW JERSEY AND A REPORT OF COMPLIANCE HAS BEEN ISSUED. UPON WRITTEN REQUEST FROM THE APPLICANT, THE DISTRICT MAY ISSUE A REPORT OF COMPLIANCE WITH CONDITIONS ON A LOT–BY–LOT OR SECTION–BY–SECTION BASIS, PROVIDED THAT THE PROPOSED LOT OR PORTION THEREOF IS IN SATISFACTORY COMPLIANCE WITH THE SEQUENCE OF DEVELOPMENT AND TEMPORARY MEASURES FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN IMPLEMENTED, INCLUDING PROVISIONS FOR STABILIZATION AND SITE WORK.
5. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN SIXTY (60) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF 2 TO 2 ½ TONS PER ACRE, ACCORDING TO THE STANDARD FOR STABILIZATION WITH MULCH ONLY.



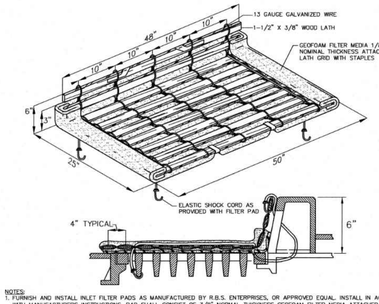
NOTES:
1) FENCE POSTS SHALL BE SPACE 8 FEET CENTER-TO-CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST TWO (2) FEET INTO THE GROUND AND EXTEND AT LEAST TWO (2) FEET ABOVE GROUND. POSTS SHALL BE CONSTRUCTED OF HARDWOOD WITH A MINIMUM DIAMETER THICKNESS OF 1½ INCHES.

2) A METAL FENCE WITH 6-INCH OR SMALLER OPENINGS AND AT LEAST TWO (2) FEET HIGH MAY BE UTILIZED, FASTENED TO THE FENCE POSTS, TO PROVIDE REINFORCEMENT AND SUPPORT TO THE GEO-TEXTILE FABRIC WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT LOADING IS EXPECTED.

3) A GEO-TEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6-INCHES DEEP IN THE GROUND. THE FABRIC SHALL EXTEND AT LEAST TWO (2) FEET ABOVE THE GROUND. THE FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING OF METAL FASTENERS (NAILS OR STAPLES) AND A HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, GROMMETS, WASHERS ETC.) PLACED BETWEEN THE FASTENER AND THE GEO-TEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL INCORPORATE A DRAWSTRING IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH.

SILT FENCE

N.T.S.



NOTES:
1. FURNISH AND INSTALL INLET FILTER PADS AS MANUFACTURED BY R.B.S. ENTERPRISES, OR APPROVED EQUAL. INSTALL IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. PAD SHALL CONSIST OF 3/8" NOMINAL THICKNESS GEOFOAM FILTER MEDIA ATTACHED TO FRAMEWORK. FRAMEWORK SHALL BE COMPRISED ON 1-1/2" x 3/8" x 48" WOOD LATH ON 4" CENTERS FOR A 5 WIRE GRID. FOAM SHALL BE ATTACHED TO LATH GRID WITH STAPLES. PAD SHALL BE ATTACHED TO GRATE WITH THE ELASTIC SHOCK CORD AND HOOKS.

2. THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 YEAR, 24 HOUR STORM EVENT AND SHALL SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM.

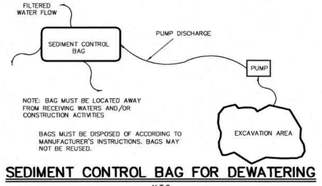
INLET PROTECTION DETAIL

N.T.S.

1. SILT CONTROL BAGS ARE CONTAINERS THROUGH WHICH SEDIMENT LADEN WATER IS PUMPED TO TRAP AND RETAIN THE SEDIMENT. A SILT CONTROL BAG IS TO BE USED ON SITES WERE EXCAVATIONS ARE DEEP, AND SPACES IS LIMITED AND WHERE DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO STREAM AND STORM DRAINAGE SYSTEM IS TO BE AVOIDED.

2. CONTAINERS (BAGS) SHALL BE LOCATED FOR EASE OF CLEAN-OUT AND DISPOSAL OF THE TRAPPED SEDIMENT AND TO MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND PEDESTRIAN TRAFFIC. BAGS SHALL NOT BE PLACED DIRECTLY INTO RECEIVING WATERS.

3. SEDIMENT CONTROL BAGS MUST BE LOCATED AWAY FROM RECEIVING WATERS AND DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS.



SEDIMENT CONTROL BAG FOR DEWATERING

N.T.S.

SEEDING RATES

SEEDBED PREPARATION: FERTILIZER (10-10-10) 500 LB/AC
LIMESTONE 6,000 LB/AC

TEMPORARY SEEDING (NOT FOR ACIDIC SOILS HAVING A PH OF 4 OR LESS)

SEED MIX: PERENNIAL RYEGRASS 200 LB/AC

PERMANENT SEEDING (NOT FOR ACIDIC SOILS HAVING A PH OF 4 OR LESS)

SEEDING DATES:
(OPTIMAL) ZONE 5b,6a (8/1-10/1); ZONE 6b (8/15-10/15); ZONE 7a,7b (8/15-10/30)
(SEE TABLE 4-2 OF THE SCS STANDARDS FOR ADDITIONAL PLANTING DATES)

SCS SEED MIX #14		
	TURF-TYPE TALL FESCUE (3 CULTIVAR BLEND)	350 LB/AC
	KENTUCKY BLUEGRASS (BLEND)	30 LB/AC
	PERENNIAL RYEGRASS (BLEND)	30 LB/AC

MULCHING:
UNROTTED SALT HAY OR APPROVED EQUAL 1 1/2 to 2 TONS/AC

MULCH ANCHORING:
HYDROMULCH OR APPROVED EQUAL (USE RATES AS RECOMMENDED BY MANUFACTURER)

NOTES:
1) FOR ADDITIONAL REQUIREMENTS REFER TO THE SCS STANDARD FOR PERMANENT VEGETATIVE COVER.
2) THE FERTILIZER AND LIMESTONE RATES REPRESENT THE UNTESTED SCS REQUIRED RATES. FINAL RATES SUBJECT TO SOIL FERTILITY, pH ANALYSIS AND LAB RECOMMENDATIONS.

CONDITION OF ACCEPTANCE:
1) NO EROSION SHALL EXIST.
2) BARE OR THIN SPOTS IN EXCESS OF 5 PERCENT OF ANY AREA WILL NOT BE ACCEPTABLE.
3) ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATED COVER (OF THE SEEDED SPECIES) AND MOWED ONCE.

STANDARD FOR TOPSOILING

DEFINITION

TOPSOILING ENTAILS THE DISTRIBUTION OF SUITABLE QUALITY SOIL ON AREAS TO BE VEGETATED.

PURPOSE

TO IMPROVE THE SOIL MEDIUM FOR PLANT ESTABLISHMENT AND MAINTENANCE.

WATER QUALITY ENHANCEMENT

GROWTH AND ESTABLISHMENT OF A VIGOROUS VEGETATIVE COVER IS FACILITATED BY TOPSOIL, PREVENTING SOIL LOSS BY WIND AND RAIN OFFSITE AND INTO STREAMS AND OTHER STORMWATER CONVEYANCES.

WHERE APPLICABLE

TOPSOIL SHALL BE USED WHERE SOILS ARE TO BE DISTURBED AND WILL BE REVEGETATED.

METHODS AND MATERIALS

1. MATERIALS

A. TOPSOIL SHOULD BE FRIABLE[1], LOAMY[2], FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCE OR ADVERSE CHEMICAL OR PHYSICAL CONDITION THAT MAY BE HARMFUL TO PLANT GROWTH. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 0.5 MILLIMHOS PER CENTIMETER. MORE THAN 0.5 MILLIMHOS MAY DESICCATE SEEDLINGS AND ADVERSELY IMPACT GROWTH). IMPORTED TOPSOIL SHALL HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCENT. ORGANIC MATTER CONTENT MAY BE RAISED BY ADDITIVES.

B. TOPSOIL SUBSTITUTE IS A SOIL MATERIAL WHICH MAY HAVE BEEN AMENDED WITH SAND, SILT, CLAY, ORGANIC MATTER, FERTILIZER OR LIME AND HAS THE APPEARANCE OF TOPSOIL. TOPSOIL SUBSTITUTES MAY BE UTILIZED ON SITES WITH INSUFFICIENT TOPSOIL FOR ESTABLISHING PERMANENT VEGETATION. ALL TOPSOIL SUBSTITUTE MATERIALS SHALL MEET THE REQUIREMENTS OF TOPSOIL NOTED ABOVE. SOIL TESTS SHALL BE PERFORMED TO DETERMINE THE COMPONENTS OF SAND, SILT, CLAY, ORGANIC MATTER, SOLUBLE SALTS AND PH LEVEL.

2. STRIPPING AND STOCKPILING

A. FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING.

B. STRIPPING SHALL BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA.

C. WHERE FEASIBLE, LIME MAY BE APPLIED BEFORE STRIPPING AT A RATE DETERMINED BY SOIL TESTS TO BRING THE SOIL PH TO APPROXIMATELY 6.5.

D. A 4-6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL.

E. STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.

F. STOCKPILES SHOULD BE VEGETATED IN ACCORDANCE WITH STANDARDS PREVIOUSLY DESCRIBED HEREIN; SEE STANDARDS FOR PERMANENT (PG. 4-1) OR TEMPORARY (PG. 7-1) VEGETATIVE COVER FOR SOIL STABILIZATION. WEEDS SHOULD NOT BE ALLOWED TO GROW ON STOCKPILES.

3. SITE PREPARATION

A. GRADE AT THE ONSET OF THE OPTIMAL SEEDING PERIOD SO AS TO MINIMIZE THE DURATION AND AREA OF EXPOSURE OF DISTURBED SOIL TO EROSION. IMMEDIATELY PROCEED TO ESTABLISH VEGETATIVE COVER IN ACCORDANCE WITH THE SPECIFIED SEED MIXTURE. TIME IS OF THE ESSENCE

B. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE. SEE THE STANDARD FOR LAND GRADING, PG. 19-1.

C. AS GUIDANCE FOR IDEAL CONDITIONS, SUBSOIL SHOULD BE TESTED FOR LIME REQUIREMENT. LIMESTONE, IF NEEDED, SHOULD BE APPLIED TO BRING SOIL TO A PH OF APPROXIMATELY 6.5 AND INCORPORATED INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES.

D. PRIOR TO TOPSOILING, THE SUBSOIL SHALL BE IN COMPLIANCE WITH THE STANDARD FOR LAND GRADING, PG. 19-1.

E. EMPLOY NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENTATION BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.

4. APPLYING TOPSOIL

A. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE; I.E., LESS THAN FIELD CAPACITY (SEE GLOSSARY).

B. A UNIFORM APPLICATION TO AN AVERAGE DEPTH OF 5.0 INCHES, MINIMUM OF 4 INCHES, FIRMED IN PLACE IS REQUIRED. ALTERNATIVE DEPTHS MAY BE CONSIDERED WHERE SPECIAL REGULATORY AND/OR INDUSTRY DESIGN STANDARDS ARE APPROPRIATE SUCH AS ON GOLF COURSES, SPORTS FIELDS, LANDFILL CAPPING, ETC., SOILS WITH A PH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM DEPTH OF 12 INCHES OF SOIL HAVING A PH OF 5.0 OR MORE, IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOIL (PC. 1-1).

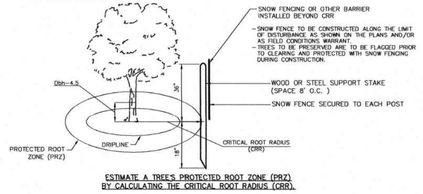
C. PURSUANT TO THE REQUIREMENTS IN SECTION 7 OF THE STANDARD FOR PERMANENT VEGETATIVE STABILIZATION, THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT PERMANENT VEGETATIVE COVER BECOMES ESTABLISHED ON AT LEAST 80% OF THE SOILS TO BE STABILIZED WITH VEGETATION. FAILURE TO ACHIEVE THE MINIMUM COVERAGE MAY REQUIRE ADDITIONAL WORK TO BE PERFORMED BY THE CONTRACTOR TO INCLUDE SOME OR ALL OF THE FOLLOWING: SUPPLEMENTAL SEEDING, RE-APPLICATION OF LIME AND FERTILIZERS, AND/OR THE ADDITION OF ORGANIC MATTER (I.E. COMPOST) AS A TOP DRESSING. SUCH ADDITIONAL MEASURES SHALL BE BASED ON SOIL TESTS SUCH AS THOSE OFFERED BY RUTGERS COOPERATIVE EXTENSION SERVICE OR OTHER APPROVED LABORATORY FACILITIES QUALIFIED TO TEST SOIL SAMPLES FOR AGRONOMIC PROPERTIES.

[1] FRIABLE MEANS EASILY CRUMBLES IN THE FINGERS, AS DEFINED IN MOST SOILS TEXTS.
[2] LOAMY MEANS TEXTURE GROUPS CONSISTING OF COARSE LOAMY SANDS, SANDY LOAM, FINE AND VERY FINE SANDY LOAM, LOAM, SILT LOAM, CLAY LOAM, SANDY CLAY LOAM AND SILTY CLAY LOAM TEXTURES AND HAVING LESS THAN 35% COARSE FRAGMENTS (PARTICLES LESS THAN 2MM IN SIZE) AS DEFINED IN THE GLOSSARY OF SOIL SCIENCE TERMS, 1996, SOIL SCIENCE SOCIETY OF AMERICA.

CRITERIA FOR PROTECTING REMAINING TREES:

1. GENERAL MECHANICAL DAMAGE - SEE BELOW FOR CORRECT ROOT ZONE CALCULATION AND PLACEMENT OF TREE PROTECTION.
2. BOX TREES WITHIN 25 FEET OF A BUILDING SITE TO PREVENT MECHANICAL INJURY. FENCING OR OTHER BARRIER SHOULD BE INSTALLED BEYOND THE CRITICAL ROOT RADIUS. TREE ROOT SYSTEMS COMMONLY EXTEND WELL BEYOND THE DRIP LINE.
3. BOARDS WILL NOT BE NAILED TO TREES DURING BUILDING OPERATIONS.
4. FEEDER ROOTS SHOULD NOT BE CUT IN AN AREA INSIDE THE PROTECTED ROOT ZONE (PRZ).
5. DAMAGED TRUNKS OR EXPOSED ROOTS SHOULD HAVE DAMAGED BARK REMOVED IMMEDIATELY AND NO PAINT SHALL BE APPLIED. EXPOSED ROOTS SHOULD BE COVERED WITH TOPSOIL IMMEDIATELY AFTER EXCAVATION IS COMPLETE. ROOTS SHALL BE PRUNED TO GIVE A CLEAN, SHARP SURFACE AMENABLE TO HEALING. ROOTS EXPOSED DURING HOT WEATHER SHOULD BE IRRIGATED TO PREVENT PERMANENT TREE INJURY. CARE FOR SERIOUS INJURY SHOULD BE PRESCRIBED BY A PROFESSIONAL FORESTER OR LICENSED TREE EXPERT.

NOTE: FOR MORE SPECIFIC TREE CHARACTERISTICS AND TREE LIMB REMOVAL, SEE THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY PUBLISHED BY THE NEW JERSEY DEPARTMENT OF AGRICULTURE-STATE SOIL CONSERVATION COMMITTEE OR CONSULT WITH A LICENSED PROFESSIONAL TREE EXPERT, SOIL CONSERVATION DISTRICT OR RUTGERS COOPERATIVE EXTENSION.



ESTIMATE A TREE'S PROTECTED ROOT ZONE (PRZ) BY CALCULATING THE CRITICAL ROOT RADIUS (CRR).

1. MEASURE THE DBH (DIAMETER OF TREE AT BREAST HEIGHT, 4.5 FEET ABOVE GROUND ON THE UPHILL SIDE OF TREE) IN INCHES.
2. MULTIPLY MEASURED DBH BY 1.5 OR 1.0. EXPRESS THE RESULT IN FEET.

DBH X 1.5: CRITICAL ROOT RADIUS FOR OLDER, UNHEALTHY, OR SENSITIVE SPECIES.

DBH X 1.0: CRITICAL ROOT RADIUS FOR YOUNGER, HEALTHY OR TOLERANT SPECIES

TREE PROTECTION

STANDARD FOR PERMANENT STABILIZATION WITH SOD

DEFINITION

ESTABLISHING PERMANENT VEGETATION USING SOD.

PURPOSE

TO PERMANENTLY STABILIZE TOPSOIL WITH AN IMMEDIATE AESTHETIC COVERING, THUS ASSURING CONSERVATION OF SOIL AND WATER, AND TO ENHANCE THE ENVIRONMENT.

WATER QUALITY ENHANCEMENT

PROVIDES AN IMMEDIATE, PERMANENT VEGETATIVE COVER TO THE SOIL FROM THE IMPACTS OF WIND OR RAIN AND PREVENTS SOIL AND NUTRIENT LOSSES TO STREAMS AND OTHER STORMWATER CONVEYANCES FROM STORMWATER RUNOFF.

WHERE APPLICABLE

ON EXPOSED SOILS THAT HAVE A POTENTIAL FOR CAUSING OFF-SITE ENVIRONMENTAL DAMAGE WHERE AN IMMEDIATE, PERMANENT, VEGETATIVE COVER IS DESIRED. WATER (RAIN OR IRRIGATION) IS REQUIRED FOR SUCCESS; ACCESS TO IRRIGATION IS ESSENTIAL DURING DROUGHT.

METHODS AND MATERIALS

1. HIGH QUALITY CULTIVATED SOD IS PREFERRED OVER NATIVE OR PASTURE SOD.

2. SOD SHOULD BE FREE OF BROADLEAF WEEDS AND UNDESIRABLE COARSE AND FINE WEED GRASSES.

3. SOD SHOULD BE OF UNIFORM THICKNESS, TYPICALLY 5/8 INCH, PLUS OR MINUS 1/4 INCH, AT TIME OF CUTTING (EXCLUDES TOP GROWTH.).

4. SOD SHOULD BE VIGOROUS AND DENSE AND BE ABLE TO RETAIN ITS OWN SHAPE AND WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP FROM THE UPPER 10 PERCENT OF THE STRIP. BROKEN PADS AND ROLLS OR TORN AND UNEVEN ENDS WILL NOT BE ACCEPTABLE.

5. FOR DROUGHTY SITES, A SOD OF TURF-TYPE TALL FESCUE OR TURF-TYPE TALL FESCUE MIXED WITH KENTUCKY BLUEGRASS IS PREFERRED OVER A 100% KENTUCKY BLUEGRASS SOD. ALTHOUGH NOT WIDELY AVAILABLE, A SOD OF FINE FESCUE IS ALSO ACCEPTABLE FOR DROUGHTY SITES.

6. ONLY MOIST, FRESH, UNHEATED SOD SHOULD BE USED. SOD SHOULD BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 24 HOURS OR LESS DURING SUMMER MONTHS.

1. SITE PREPARATION

A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR LIMING, FERTILIZING, INCORPORATION OF ORGANIC MATTER, AND OTHER SOIL PREPARATION PROCEDURES. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING.

B. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES.

SEE THE STANDARD FOR TOPSOILING FOR TOPSOIL AND AMENDMENT REQUIREMENTS.

C. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS

2. SOIL PREPARATION

A. UNIFORMLY APPLY GROUND LIMESTONE, AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES (HTTP://NJAES.RUTGERS.EDU/COUNTY/). FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET USING 10-10-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED, APPLY ½ THE RATE DESCRIBED ABOVE DURING SEEDBED PREPARATION AND REPEAT ANOTHER ½ RATE APPLICATION OF THE SAME FERTILIZER WITHIN 3 TO 5 WEEKS AFTER SEEDING. APPLY LIMESTONE AT THE RATE OF 2 TONS/ACRE UNLESS SOIL TESTING INDICATES OTHERWISE. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES.

B. WORK LIME, AND FERTILIZER INTO THE TOPSOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED.

C. REMOVE FROM THE SURFACE ALL OBJECTS THAT WOULD PREVENT GOOD SOD TO TOPSOIL CONTACT AND REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS, OR OTHER UNSUITABLE MATERIAL.

D. INSPECT SITE JUST BEFORE SODDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED IN ACCORDANCE WITH THE ABOVE.

3. SOD PLACEMENT

A. SOD STRIPS SHOULD BE LAID ON THE CONTOUR, NEVER UP AND DOWN THE SLOPE, STARTING AT THE BOTTOM OF THE SLOPE AND WORKING UP. ON STEEP SLOPES, THE USE OF LADDERS WILL FACILITATE THE WORK AND PREVENT DAMAGE TO THE SOD. DURING PERIODS OF HIGH TEMPERATURE, LIGHTLY IRRIGATE THE SOIL IMMEDIATELY PRIOR TO LAYING THE SOD.

B. PLACE SOD STRIPS WITH SNUG, EVEN JOINTS (SEAMS) THAT ARE STAGGERED. OPEN SPACES INVITE EROSION.

C. LIGHTLY ROLL OR TAMP SOD IMMEDIATELY FOLLOWING PLACEMENT TO INSURE SOLID CONTACT OF ROOT MAT AND SOIL SURFACE. DO NOT OVERLAP SOD. ALL JOINTS SHOULD BE BUTTED TIGHTLY TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS AND INVASION OF WEEDS.

D. ON SLOPES GREATER THAN 3 TO 1, SECURE SOD TO SURFACE SOIL WITH WOOD PEGS, WIRE STAPLES BIODEGRADABLE PLASTIC SPIKES, OR SPLIT SHINGLES (8 TO 10 INCHES LONG BY 3/4 INCH WIDE).

E. SURFACE WATER CANNOT ALWAYS BE DIVERTED FROM FLOWING OVER THE FACE OF THE SLOPE, BUT A CAPPING STRIP OF HEAVY JUTE OR PLASTIC NETTING, PROPERLY SECURED, ALONG THE CROWN OF THE SLOPE AND EDGES WILL PROVIDE EXTRA PROTECTION AGAINST LIFTING AND UNDERCUTTING OF SOD. THE SAME TECHNIQUE CAN BE USED TO ANCHOR SOD IN WATER-CARRYING CHANNELS AND OTHER CRITICAL AREAS. WIRE STAPLES MUST BE USED TO ANCHOR NETTING IN CHANNEL WORK.

F. IMMEDIATELY FOLLOWING INSTALLATION, SOD SHOULD BE WATERED UNTIL WATER PENETRATES THE SOIL LAYER BENEATH SOD TO A DEPTH OF 1 INCH. MAINTAIN OPTIMUM WATER FOR AT LEAST TWO WEEKS.

4. TOPDRESSING - SINCE SOIL ORGANIC MATTER AND SLOW RELEASE NITROGEN FERTILIZER (WATER INSOLUBLE) ARE PRESCRIBED IN SECTIONS 1 AND 2IN THIS STANDARD, A FOLLOW-UP TOPDRESSING IS NOT MANDATORY, EXCEPT WHERE GROSS NITROGEN DEFICIENCY EXISTS IN THE SOIL TO THE EXTENT THAT TURF FAILURE MAY DEVELOP. TOPDRESSING SHALL THEN BE APPLIED. TOPDRESS WITH 10-0-10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 7 POUNDS PER 1,000 SQUARE FEET EVERY 3 TO 5 WEEKS UNTIL THE GROSS NITROGEN DEFICIENCY IN THE TURF IS AMELIORATED.

FOR CLARIFICATIONS AND ADDITIONAL INFORMATION SEE THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, 7TH EDITION, JANUARY 2014, REVISED JULY 2017

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BLOCK 201
LOTS LINE 11-14
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MIDDLESEX COUNTY
NEW JERSEY

BID SET

SOIL EROSION NOTES & DETAILS

DWG EDITION 2.0

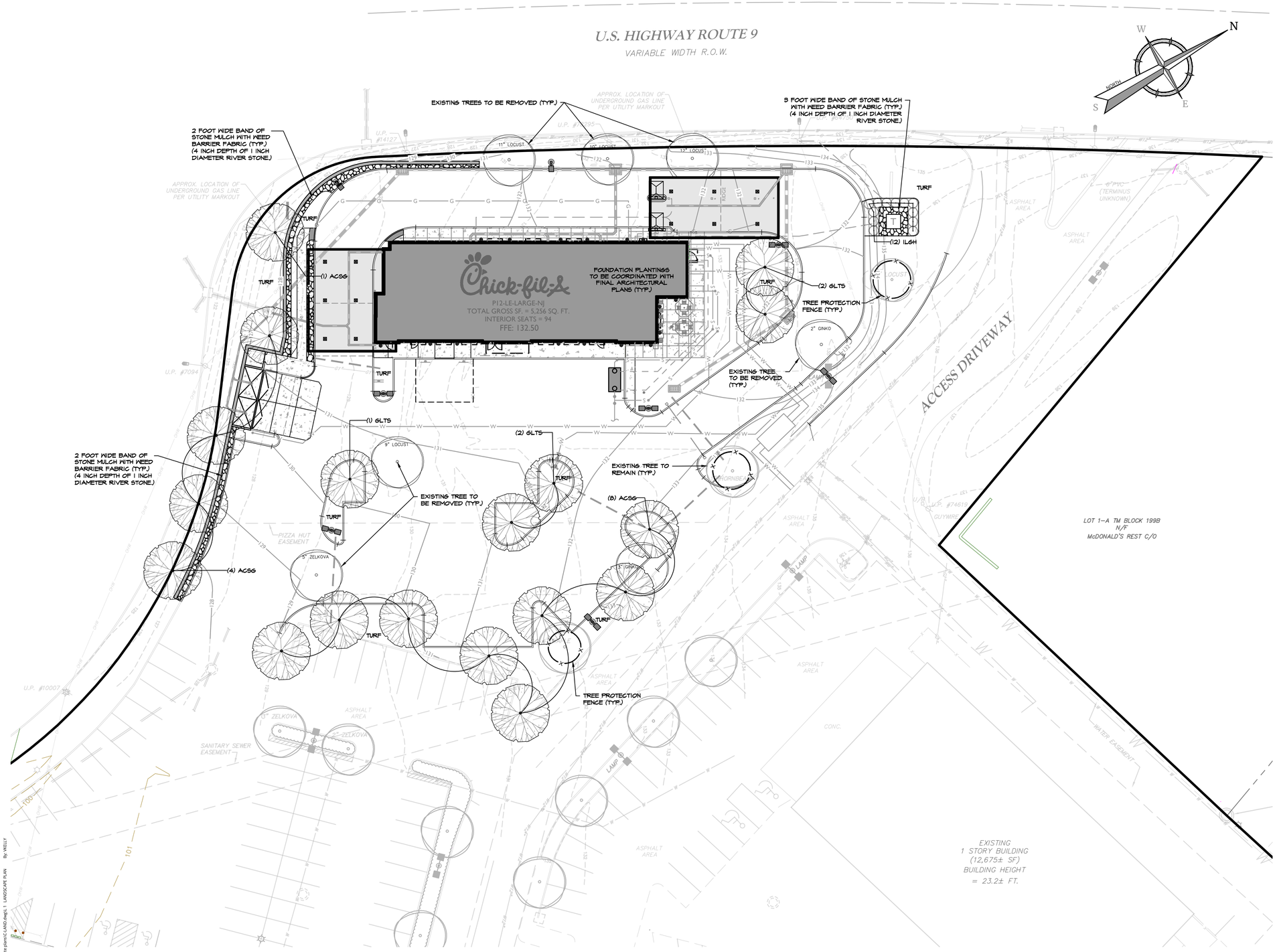
- ■ Preliminary
- ☐ 80% Submittal
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GENERAL LANDSCAPE NOTES:

1. NO SUBSTITUTIONS IN THE PLANT LIST IS TO BE MADE UNLESS AUTHORIZED BY THE LANDSCAPE ARCHITECT AND APPROVED BY THE OWNER AND THE TOWNSHIP.

2. ALL DISTURBED AND PERMANENT TURF AREAS SHALL BE SEEDED WITH A GENERAL PURPOSE MIXTURE SIMILAR TO THE FOLLOWING; SCS SEED MIX #14 (TALL TURF FESCUE, KENTUCKY BLUEGRASS, PERENNIAL RYEGRASS) OR APPROVED EQUAL. SEE SCS DETAIL SHEETS FOR SEEDING SPECIFICATIONS.

3. ALL PLANTING BEDS TO BE MULCHED WITH (3) INCH MINIMUM MULCH (SEE PLANTING NOTE #20). MULCH VOLCANOES (MOUNDS) AROUND TREES ARE PROHIBITED.

4. TOPSOIL PROTECTION: NO TOPSOIL SHALL BE REMOVED FROM THE SITE OR USED AS SPOIL. ALL TOPSOIL MOVED DURING THE COURSE OF CONSTRUCTION SHALL BE REDISTRIBUTED ON ALL REGRADED SURFACES SO AS TO PROVIDE AN EVEN COVER AND SHALL BE STABILIZED BY SEEDING OR PLANTING. ALL REGRADED TURF AREAS SHALL BE COVERED BY A SIX (6) INCH MINIMUM THICKNESS OF TOPSOIL. IF SUFFICIENT TOPSOIL IS NOT AVAILABLE ON THE SITE, TOPSOIL, MEETING OR EXCEEDING THE MINIMUM REQUIREMENTS OF THE NJDOT SPECIFICATIONS, SHALL BE PROVIDED TO RESULT IN A SIX (6) INCH MINIMUM THICKNESS. ANY IMPORTED TOPSOIL OR SUBSOIL SHALL BE NJDEP CERTIFIED FREE OF ANY TOXINS OR HARMFUL CHEMICALS.

5. LAWN AREAS SHALL MAINTAIN A MINIMUM SLOPE OF 2% AND A MAXIMUM OF (3) FEET HORIZONTAL TO (1) FOOT VERTICAL AND COMPACTED AREAS SHALL BE TILLED TO A DEPTH OF EIGHTEEN (18) INCHES.

6. UNACCEPTABLE PLANT MATERIALS: MATERIALS WHICH HAVE DAMAGED OR CROOKED LEADERS, DEFORMED GROWTH HABIT, ABRASIONS OF THE BARK, SUNSCALDS, WINDBURN, DISFIGURING KNOTS, OR FRESH CUTS OF LIMBS OVER 3/4 IN. WHICH HAVE NOT COMPLETELY CALLUSED WILL BE REJECTED. IN ADDITION, TREES HAVING THEIR CENTRAL LEADERS HEADED BACK WILL ALSO BE REJECTED.

7. SHRUB PLANTING ISLANDS, PARKING AREA ISLANDS AND FOUNDATION PLANTING BEDS SHALL RECEIVE A MINIMUM OF (2) FEET OF TOPSOIL MIXTURE MEETING OR EXCEEDING THE MINIMUM NJDOT SPECIFICATIONS.

8. ALL PLANT MATERIALS LOCATED WITHIN SIGHT TRIANGLES SHALL BE MAINTAINED NOT TO EXCEED A MAXIMUM OF (36) INCHES ABOVE PAVEMENT AND TREES SHALL BE LIMBED TO MAINTAIN A MINIMUM CLEARANCE OF (7) FEET ABOVE THE TOP OF CURB OR SIDEWALK FOR SIGHT VISIBILITY.

9. THE CONTRACT DRAWINGS INDICATE THE APPROXIMATE LOCATION OF EXISTING SUBSURFACE UTILITIES IN THE VICINITY OF THE PROJECT AND ARE NOT GUARANTEED FOR ACCURACY AND/OR COMPLETENESS. CONTRACTOR TO VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. (1-800-272-1000). ANY CONFLICTS WITH PROPOSED CONSTRUCTION ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND THE LANDSCAPE ARCHITECT. ALL EXISTING UTILITIES THAT ARE TO BE RELOCATED OR ALTERED IN ANY MANNER SHALL BE DONE IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANIES STANDARDS. ALL EXISTING UTILITIES EXPOSED DURING CONSTRUCTION SHALL BE SUPPORTED UNTIL BACKFILL IS IN PLACE.

10. IRRIGATION SHALL BE PROVIDED FOR PLANT MATERIAL IF INDICATED ON THE PLAN OR AT THE OWNER'S DIRECTION. DESIGN TO BE PROVIDED BY IRRIGATION PROFESSIONAL.

11. SEE DETAIL SHEETS FOR ADDITIONAL PLANTING NOTES AND DETAILS.

12. ALL SHADE TREES, EVERGREENS, AND FLOWERING TREES SHALL BE PROVIDED WITH "GATOR BAGS" tm OR EQUAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING WATER TO ALL PLANTINGS AND LAWN AREAS UNTIL FINAL ACCEPTANCE.

13. PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL, SEEDING OR SODDING OF LAWN AREAS, THE CONTRACTOR SHALL OBTAIN PHYSICAL, CHEMICAL AND SOIL FERTILITY TESTING AT AN APPROVED LAB TO DETERMINE SOIL COMPOSITION AND SUITABILITY. THE TESTING SHALL BE A RATE OF EITHER ONE TEST PER 500 CUBIC YARDS OF PLANTING MIX OR ONE TEST PER 15,000 SF OF LANDSCAPE SURFACE AREA THE SOILS SHALL BE AMENDED IN ACCORDANCE WITH THE TEST RESULTS FOR OPTIMAL PLANT AND LAWN GROWTH. THE RESULTS OF ALL TESTING SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW.

TREE PLANTING REQUIREMENTS:

SHADE TREE REQUIREMENTS OF THE TOWNSHIP OF WOODBRIDGE LAND USE ORDINANCE REQUIRES THE FOLLOWING TREE PLANTINGS:

SECTION 150-20.2.(I)1(a)
- ONE (1) STREET TREE / 50 LF OF STREET FRONTAGE.
- 464 LF / 50 LF = (10) STREET TREES REQUIRED.

SECTION 150-20.2.(I)1(b)
- ONE (1) SHADE TREE / 50 LF OF PARKING PERIMETER.
- 378 LF / 50 LF = (8) SHADE TREES REQUIRED.

TREE REPLACEMENT REQUIREMENTS:

- INVENTORY OF TREES 4" AND GREATER TO BE REMOVED HAVE BEEN PROVIDED. (SEE LIST.)

SECTION 150-20.2.(H)
- REPLACEMENT TREES OF THE TOWNSHIP OF WOODBRIDGE LAND USE ORDINANCE REQUIRES THE FOLLOWING TREE REPLACEMENT:
  a. TREES WITH A DBH BETWEEN 4"-15" CALIPER - (6) TREES ARE IN FAIR CONDITION. (55% REMOVAL REQUIRES 40% REPLACEMENT)
  - REPLACEMENT TREES REQUIRED = (3) REPLACEMENT TREES.

- TOTAL TREE PLANTING AND REPLACEMENT TREES REQUIRED = (21) TREES.
- THE LANDSCAPE PLAN PROVIDES (18) SHADE TREES @ 2 1/2 INCH CALIPER.
- (3) EXISTING SHADE TREES LOCATED ON SITE ARE TO REMAIN.

EXISTING TREE INVENTORY:

KEY	TYPE	CONDITION	STATUS
#1	12" LOCUST	FAIR	TO BE REMOVED
#2	10" LOCUST	FAIR	TO BE REMOVED
#3	11" LOCUST	FAIR	TO BE REMOVED
#4	10" LOCUST	FAIR	TO BE REMOVED
#5	9" LOCUST	FAIR	TO BE REMOVED
#6	5" ZELKOVA	FAIR	TO BE REMOVED
#7	3" GINKO	FAIR	TO BE REMOVED
#8	2" GINKO	FAIR	TO BE REMOVED

PLANT SCHEDULE

DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	MATURE SPREAD	MATURE HT.	CALIPER	PLANTING HT.	TYPE	REMARKS
ACSS	19	ACER SACCHARUM 'GREEN MOUNTAIN' TM	'GREEN MOUNTAIN' SUGAR MAPLE	50'	70'	2.5"-3"	12'-14'	B&B	STRAIGHT, SYMMETRICAL, FULL CROWN, HEAD TO T'
GLTS	5	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER' TM	SHADEMASTER THORNLESS LOCUST	40'	50'	2.5"-3"	12'-14'	B&B	STRAIGHT, SYMMETRICAL, FULL CROWN, HEAD TO T'
SHRUBS	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**WIDTH**	**HEIGHT**	**PLANTING WIDTH**	**PLANTING HT.**	**TYPE**	**REMARKS**
ILGH	12	ILEX GLABRA 'CHAMZIN' TM	NODIC HOLLY	4'	4'		3-3.5'	#5 CAN	WELL FURNISHED, DENSE, LOW BRANCHED, SPACE EVENLY

20 0 20 40
SCALE : 1" = 20'

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NEW JERSEY

BID SET

LANDSCAPE PLAN

DWG EDITION 2.0

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PLANTING NOTES

THE FOLLOWING RECOMMENDED PLANTING PERIODS SHOULD BE ADHERED TO WHENEVER POSSIBLE: 1) BROADLEAF AND CONIFEROUS EVERGREEN TREES, SHRUBS, VINES AND GROUND COVERS SHALL BE PLANTED BETWEEN AUGUST 15th AND SEPTEMBER 15th AND BETWEEN APRIL 15th AND MAY 15th. DECIDUOUS TREES, SHRUBS, VINES, GROUND COVERS AND PERENNIALS SHALL BE PLANTED BETWEEN OCTOBER 15th AND NOVEMBER 15th AND BETWEEN MARCH 15th AND MAY 15th. THESE PLANTING SEASONS MAY BE EXTENDED OR SHORTENED ACCORDING TO PREVAILING WEATHER CONDITIONS, SOIL CONDITIONS, AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE.

2) THE PLANTING OPERATION INCLUDES ALL LABOR, MATERIALS, PLANTS, EQUIPMENT, SHIPPING, INCIDENTALS AND CLEAN-UP BY THE CONTRACTOR FOR THE INSTALLATION OF THE ENTIRE LANDSCAPE PLAN.

3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT.

4) THE CONTRACTOR WILL EXAMINE ALL FIELD CONDITIONS FOR EXACT LOCATIONS OF UTILITIES, DRAINAGE SYSTEMS AND IRRIGATION SYSTEMS AND ADJUST PROPOSED PLANTINGS ACCORDINGLY. THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER DEPTH OF TOPSOIL IN ALL AREAS AND THE PROVISION OF POSITIVE DRAINAGE. THE CONTRACTOR SHALL NOTIFY THE CLIENT, ENGINEER, AND/OR LANDSCAPE ARCHITECT OF ANY DETRIMENTAL DRAINAGE HAZARD, INCLUDING BUT NOT LIMITED TO INSUFFICIENT TOPSOIL, ETC. PRIOR TO THE INSTALLATION OF ANY MATERIALS, INCLUDING LAWN AREAS.

5) THE CONTRACTOR WILL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF ALL SOIL OR DRAINAGE CONDITIONS WHICH THE CONTRACTOR CONSIDERS DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL. STATE CONDITION AND SUBMIT A PROPOSAL FOR CORRECTION IF FEASIBLE.

6) PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS; WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE FROM DEFECTS AND INJURIES. QUALITY AND SIZE OF PLANTS, SPREAD OR ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH THE MOST RECENT AND 760 "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.

7) PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES. PLANTS SHALL BE HANDLED FROM THE BOTTOM OF THE BALL ONLY.

8) GUARANTEE OF PLANT GROWTH: ALL PLANTS AND TREES SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. PROVISION SHALL BE MADE FOR A GROWTH GUARANTEE OF AT LEAST ONE (1) YEAR FOR TREES AND SHRUBS FROM THE DATE OF FINAL ACCEPTANCE OR AS REQUIRED BY TOWNSHIP. REPLACEMENTS SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THE ABOVE STATED.

9) INSOFAR AS IT IS PRACTICAL, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE (3) DAY PERIOD AFTER DELIVERY.

10) IF PLANT AVAILABILITY IS RESTRICTED, SUBSTITUTIONS MAY BE MADE WITHIN PLANT TYPE TO MAINTAIN SIMILAR GROWTH AND ORNAMENTAL QUALITIES UPON NOTIFICATION AND APPROVAL BY THE LANDSCAPE ARCHITECT.

11) PLANT LOCATIONS SHOWN ARE DIAGRAMMATIC. ALL PLANTS SHOWN SEMI-MATURE SIZE ON PLANS. THE STAKING LAYOUT OF ALL PLANTINGS WILL BE INSPECTED BY THE LANDSCAPE ARCHITECT PRIOR INSTALLATION AS REQUESTED BY OWNER.

12) AREAS DISTURBED BY LANDSCAPE OPERATIONS SHALL BE GRADED TO MATCH EXISTING. TOPSOIL AND SEED OR SOD AS REQUIRED.

13) NO PLANT, EXCEPT GROUND COVERS AND FOUNDATIONS PLANTS SHALL BE PLANTED LESS THAN TWO (2) FEET FROM EXISTING STRUCTURES AND SIDEWALKS.

14) ALL PLANTS SHALL BE PLANTED IN TOPSOIL THAT IS THOROUGHLY WATERED AND TAMPED AS BACKFILLING PROGRESSES. NOTHING BUT SUITABLE TOPSOIL FREE OF DRY SOD, STIFF CLAY, LITTER, STONES IN EXCESS OF 1"ø, ETC., SHALL BE USED FOR PLANTING.

15) SET ALL PLANTS PLUMB AND STRAIGHT. SET AT SUCH LEVEL THAT, AFTER SETTLEMENT, A NORMAL OR NATURAL RELATIONSHIP TO THE CROWN OF THE PLANT WITH THE GROUND SURFACE WILL BE ESTABLISHED. LOCATE PLANT THE CENTER OF THE PIT.

16) IT IS ADVISABLE TO PRUNE APPROXIMATELY 1/3 OF THE GROWTH OF LARGE TREES (2" CALIPER AND OVER) BY THE REMOVAL OF SUPERFLUOUS BRANCHES, THOSE WHICH CROSS, THOSE WHICH RUN PARALLEL, ETC. MAIN LEADER TO TREES MUST NOT BE CUT BACK. LONG SIDE BRANCHES, HOWEVER, MUST BE SHORTENED. TREES WITH THE CENTRAL LEADER PRUNED WILL BE REJECTED.

17) EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE TO PRESERVE NATURAL CHARACTER OF PLANT. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS.

18) ALL TREES SHALL BE SUPPORTED IMMEDIATELY AFTER PLANTING. ALL TREES SIX (6) INCHES AND OVER IN CALIPER SHALL BE TIED, WHILE SMALLER TREES SHALL BE STAKED. ARBOR TREE TIES AND STAKES SHALL BE INSTALLED AS INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ARBOR TREE TIES ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE.

19) THE TRUNKS OF ALL TREES SHALL BE WRAPPED AS SOON AS POSSIBLE AFTER PLANTING ACCORDING TO STANDARD PROCEDURES AND IF REQUIRED BY TOWNSHIP.

20) MULCH FOR PLANTING BEDS SHALL BE DOUBLE SHREDDED HARDWOOD BARK MULCH UNLESS OTHERWISE SPECIFIED ON THE PLANS AND SHALL HAVE NO LEAVES, YOUNG GREEN GROWTH, BRANCHES, TWIGS GREATER IN DIAMETER OF 1/2"‥WEEDS, SHAVINGS OR FOREIGN MATERIAL SUCH AS STONES, ETC. SHALL BE MIXED WITH THE MULCH. ALL SHRUB MASSES SHALL BE PLANTED IN CONTINUOUS MULCHED BEDS WITH A COMPACTED DEPTH OF 3". NO MULCH SHALL BE PLACED AGAINST PLANT STEMS.

21) WATER APPLIED TO SEEDED OR SODDED AREAS, PLANTS OR PLANTED AREAS SHALL BE FREE FROM IMPURITIES INJURIOUS TO VEGETATION AND APPLIED AT A RATE OF FIVE GALLONS OF WATER PER SQUARE YARD OF PLANT PIT.

22) FALL PLANTING HAZARDS:
IT IS VERY RISKY TO TRANSPLANT THE FOLLOWING LIST OF TREES BARE ROOT OR B&B IN THE FALL:

PLATANUS ACERIFOLIA	BETULA VARIETIES
PRUNUS-ALL STONE FRUITS	PYRUS-ALL PEARS
CARPINUS VARIETIES	QUERCUS-ALL OAKS
CORNUS FLORIDA & VARS	SALIX-WEEPING VARS
CRATAEGUS VARIETIES	STYRAX JAPONICA
HALESIA	TILIA TOMENTOSA
KOELREUTERIA	ZELKOVA VARIETIES
LIQUIDAMBAR STYRACIFLUA	LIRIODENDRON TULIPIFERA

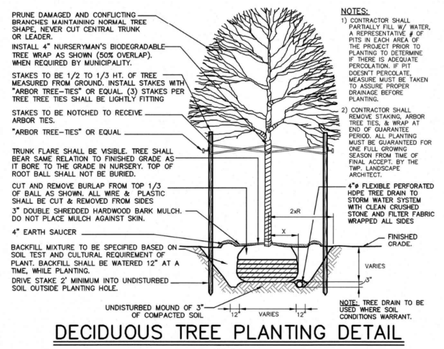
THE CONTRACTOR ASSUMES RESPONSIBILITY FOR PLANT SURVIVAL OF THESE MATERIALS IF MOVED DURING THE FALL SEASON.

23) TREES TO REMAIN ON-SITE TO BE SELECTIVELY THINNED AND PRUNED REMOVING ALL DEAD AND DISEASED LIMBS WHILE PROTECTED BY FENCING DURING CONSTRUCTION (SEE DETAIL). FENCE TO BE MAINTAINED DURING CONSTRUCTION BY CONTRACTOR.

24) THE PLANTING PLAN SHALL TAKE PRECEDENCE OVER THE PLANT SCHEDULE SHOULD ANY PLANT QUANTITY DISCREPANCIES OCCUR.

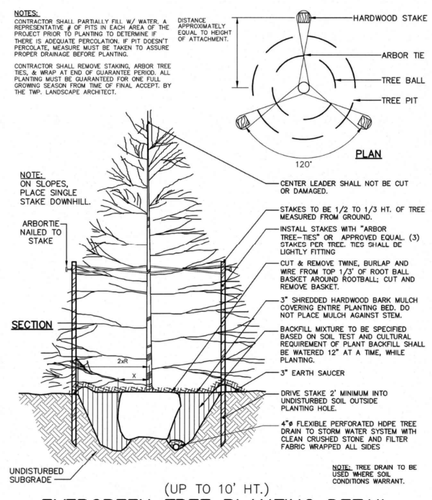
25) ALL STREET TREES AND SHADE TREES PLANTED NEAR PEDESTRIAN OR VEHICULAR ACCESS SHOULD NOT BE BRANCHED LOWER THAN 7'-0" ABOVE GRADE. ALL PLANT MATERIAL LOCATED WITHIN ANY SIGHT TRIANGLE EASEMENTS SHALL NOT EXCEED A MATURE HEIGHT OF 30" ABOVE THE ELEVATION OF THE ADJACENT CURB. ALL STREET TREES PLANTED IN ANY SIGHT TRIANGLE SHALL BE PRUNED AS MENTIONED ABOVE.

26) SEE DETAIL DRAWINGS FOR TYPICAL PLANTING DETAILS.



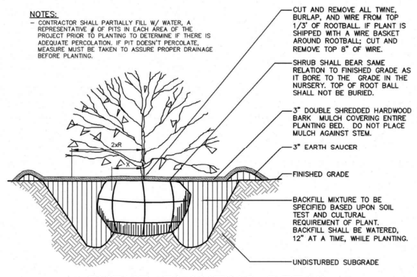
DECIDUOUS TREE PLANTING DETAIL

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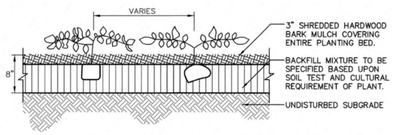
(UP TO 10' HT.) EVERGREEN TREE PLANTING DETAIL

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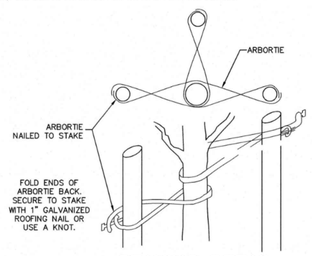
SHRUB PLANTING DETAIL

N.T.S.



GROUNDCOVER PLANTING DETAIL

N.T.S.



STAKING DETAIL

N.T.S.

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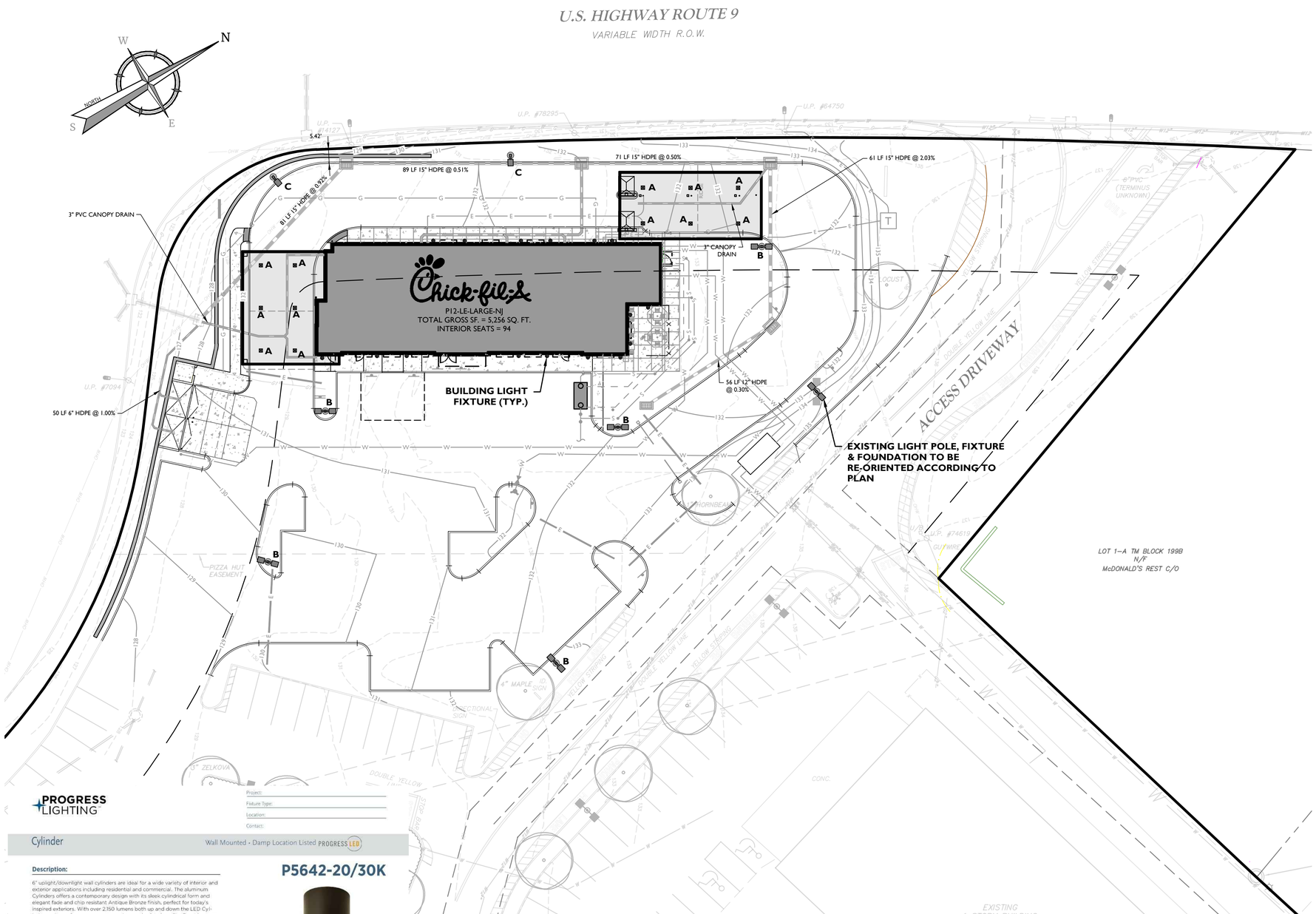
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Sheet

L 2

2019\19003093A\Bid Set\Engineering Drawings\engineering\site plans\CLAND.dwg\L 2 LANDSCAPE NOTES & DETAILS By: PCRICH.LOW



LED SURFACE MOUNT - LEGACY™ (CRUS SM)



US & Int'l. patents pending.

HOUSING – One-piece, die-formed, aluminum housing with powder coated finish. One conduit knockout and four mounting holes. .062 housing is formed from zinc-coated steel.

LEDS – Features an array of select, mid-power, high brightness, high efficiency LED chips; 5000K color temperature, 70 CRI.

DRIVE CURRENT – Choice of Very Low Wattage (LV), Low Wattage (LW), Super Saver (SS), High Output (HO) or Very High Output (VHO).

OPTICS / DISTRIBUTION – Symmetrical, which directs light through a glass lens to provide a uniform distribution of light to vertical and horizontal surfaces.

OPTICAL UNIT – Features an ultra-slim 7/8" profile die-cast housing, with a standard flat clear or diffused glass lens. Unit is water-resisted, sealed to an IP67 rating. Integral designed heat-sink does not trap dirt and grime, ensuring cool-running performance over the life of the fixture.

PRESSURE STABILIZING VENT – Luminaire assembly incorporates a pressure stabilizing vent breather to prevent seal fatigue and failure.

DRIVER – State-of-the-art driver technology superior energy-efficiency and optimum light output. Driver components are fully encased in potting for moisture resistance. Complies with IEC and FCC standards. 0-10 V dimming supplied standard with all drive currents.

ADAPTOR PANEL – Die formed galvanized steel, with powder coat finish.

OPERATING TEMPERATURE – -40°C to 50°C (-40°F to +122°F)

ELECTRICAL – Universal voltage power supply, 120-277 VAC, 50/60 HZ input. Drivers feature two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE/IEC 61 2.5VDC, Scenario 1, Location Category G.

FINISH – Standard color is white and is finished with LSI's DuraGrip polyester powder coat process. DuraGrip withstands extreme weather changes without cracking or peeling.

INSTALLATION – Pre-assembled optical unit and mounting panel attaches to fixture housing via 4 fasteners. Driver is pre-mounted to back of optical assembly.

SHIPPING WEIGHT – 20 pounds.

EXPECTED LIFE – Minimum 60,000 to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web-site for specific guidance.

WARRANTY – Limited 5-year warranty.

PHOTOMETRICS – Applications layouts are available upon request. Contact LSI Petroleum Lighting or petroleum.appslibi@lsi-industries.com

LISTING – UL listed to UL 1598, UL 8750 and other U.S. and International safety standards. Suitable for wet locations. For a list of the specific products in this series that are DLC-listed, please consult the LED Lighting section of our website or the Design Lights website at www.designlights.org.

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.

IP67

FIXTURE 'A'

OSQ Series

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Medium

Rev. Date: V28 04/21/2021

Product Description

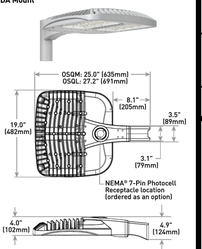
The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. The 'B' Input power designator is a suitable upgrade for HID applications up to 250 Watt, and the 'K' Input power designator is a suitable upgrade for HID applications up to 400 Watt.
Applications: Parking lots, walkways, campuses, car dealerships, office complexes, tunnels, underpasses, and internal roadways

Performance Summary

- Utilizes Cree TrueWhite® Technology on 5000K Luminaires
- NanoOptic® Precision Delivery Grid™ optic
- Assembled in the U.S.A. of U.S. and imported parts
- **Initial Delivered Lumens:** Up to 17,291
- **Efficacy:** Up to 136 LPW
- **CRI:** Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)
- **CCT:** 3000K, 4000K, 5000K, 5700K
- **Limited Warranty[1]:** 10 years on luminaire; 10 years on Colorfast DeltaGuard® finish; up to 5 years for Synapse® accessories; 1 year on luminaire accessories

[1] See http://creelighting.com/warranty for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

DA Mount



Weight
28.9 lbs. (13.1kg)

Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:
Example: **Mount:** OSQ-B-AASV + **Luminaire:** OSQ-A-NM-2ME-B-40K-UL-SV

Mount (Luminaire must be ordered separately)*		
OSQ-		
OSQ-B-AA Adjustable Arm **OSQ-DA** Direct Arm **OSQ-M-TSP** Transportation Mount (stainless steel; do not specify color) **OSQ-TM** Trunnion Mount	**Color Options:**	**SV** Silver **BZ** Bronze **BK** Black **WH** White

* Reference EPA and pole configuration suitability data beginning on page 10

Luminaire (Mount must be ordered separately)

OSQ	A	NM							
Product	Version	Mounting	Optic	Input Power Designator	CCT	Voltage	Color Options	Options	
OSQ	A	NM No Mount	**Asymmetric** **2ME*** Type II Medium **3ME*** Type III Medium **4ME*** Type IV Medium **Symmetric** **5ME** Type V Medium **5SH** Type V Short **5SQ** Type V Square **WSH** Wide Sign **15D** 15° Flood **25D** 25° Flood **40D** 40° Flood **60D** 60° Flood **120D** 120° Flood	**B** 86W **K** 130W **Z** 53W	**30K** 3000K, 70 CRI **40K** 4000K, 70 CRI **50K** 5000K, 90 CRI **57K** 5700K, 70 CRI	**UL** Universal 120-277V or Universal 347-480V - Available with B & K Input Power Designators only	**BK** Black **BZ** Bronze **SV** Silver **WH** White	**F** **Fuse** - Compatible only with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - Refer to PML spec sheet for availability with PML options - When code dictates fusing, use time delay fuse **PML Programmable Multi-Level, up to 40' Mounting Height** - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt **PML2 Programmable Multi-Level, 10-20' Mounting Height** - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt **QY/DA/DS/DJ/DL/D2/D2/DT/** **Field Adjustable Output** - Must select DY, DA, DS, D4, Q3, D2, or D1 - Offers full range adjustability - Refer to pages 12-13 for power and lumen values - Available with B & K Input Power Designators only - Not available with PML or PML2 options	**R** **NEMA® 7-Pin Photocell Receptacle** - 7-pin receptacle per ANSI C136.41 - Intended for downlight applications with maximum 40' tilt - Factory connected 0-10V dim leads - 18" (457mm) seven-conductor cord exits luminaire - Requires photocell or shorting cap by others **RL** **Rotate Left** - LED and optic are rotated to the left - Refer to RR/RL configuration diagram on page 14 for optic directionality - Not for use with symmetric optics **RR** **Rotate Right** - LED and optic are rotated to the right - Refer to RR/RL configuration diagram on page 14 for optic directionality - Not for use with symmetric optics

* Available with Backlight Shield when ordered with field-installed accessory (see table above)

US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

FIXTURES 'B' & 'C'

LIGHTING NOTES:

1. A CONCRETE FOOTING BELOW FINISHED GRADE, SHALL BE INSTALLED FOR EACH FIXTURE. SIZE AND DEPTH TO BE DESIGNED BY STRUCTURAL ENGINEER.

2. A MINIMUM OF (1.0) FOOTCANDLES, WITH AN AVERAGE OF (2.25) FOOTCANDLES AND AN AVERAGE TO MINIMUM UNIFORMITY RATIO OF (2.25:1) ARE PROVIDED WITHIN PARKING AREAS AND ACCESS AISLES.

3. PARKING AREA POLES TO BE STEEL, STRAIGHT, ROUND TO MATCH FIXTURE.

4. LIGHT FIXTURES AND POLES TO BE INSTALLED AS PER MANUFACTURERS' SPECIFICATIONS.

5. PARKING AREA LIGHTING CONTROLS SHALL BE PHOTOCELL OPERATED TIMER DEACTIVATED DURING HOURS OF OPERATION.

6. LIGHT STANDARDS LOCATED IN PLANTING AREAS AND TURF AREAS SHALL BE A MINIMUM OF 30" OFF PAVEMENT CURB FACE. FOOTINGS WITHIN PARKING AREAS SHALL BE 30" ABOVE ADJACENT PAVEMENT GRADE. ALL FOUNDATIONS SHALL BE CYLINDRICAL. POLE HEIGHTS SHALL BE ADJUSTED FOR APPROPRIATE FOUNDATIONS USED WHILE MAINTAINING LUMINAIRE MOUNTING HEIGHT.

7. ALL CIRCUIT DIAGRAMS AND ELECTRICAL PLANS FOR EXTERIOR LIGHTING TO SERVICE PANEL SHALL BE DESIGNED BY INTERIOR LIGHTING CONTRACTOR/ENGINEER.

8. INSTALLATION OF ALL SITE LIGHTING ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STANDARDS, CODES, AND LAWS.

9. THIS PLAN WAS PRODUCED USING LIGHTING ANALYSIS AGI PROGRAM WITH THE APPROPRIATE PHOTOMETRIC FILES SUPPLIED BY CREE LIGHTING, (CREELIGHTING.COM) AND LSI LIGHTING, (LSI-INDUSTRIES.COM) CINCINNATI, OHIO.

10. THE CONTRACTOR SHALL FIELD VERIFY EXISTING OVERHEAD WIRES FOR CLEARANCE REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT/ENGINEER FOR ANY CONFLICTS PRIOR TO ORDERING LIGHTING EQUIPMENT.

11. THE CONTRACT DRAWINGS INDICATE THE APPROXIMATE LOCATION OF EXISTING SUBSURFACE UTILITIES IN THE VICINITY OF THE PROJECT AND ARE NOT GUARANTEED FOR ACCURACY AND/OR COMPLETENESS. CONTRACTOR TO VERIFY THE DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. (1-800-272-1000). ANY CONFLICTS WITH PROPOSED CONSTRUCTION ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER, AND LANDSCAPE ARCHITECT. ALL EXISTING UTILITIES THAT ARE TO BE RELOCATED OR ALTERED IN ANY MANNER SHALL BE DONE IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANIES STANDARDS. ALL EXISTING UTILITIES EXPOSED DURING CONSTRUCTION ARE TO BE SUPPORTED UNTIL BACKFILL IS IN PLACE.

12. ANY LIGHT FIXTURE SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE ACCOMPANIED BY A POINT BY POINT CALCULATION VERIFYING THE SUBSTITUTED FIXTURES PERFORMANCE AND DEMONSTRATING THAT THE REVISED LIGHT LEVELS MATCH THE APPROVED PLANS. MENLO ENGINEERING WILL NOT PERFORM REVISED LIGHTING CALCULATIONS UNLESS AUTHORIZED BY THE OWNER. THE REVISED LIGHT LEVELS MUST BE RESUBMITTED TO THE MUNICIPAL REVIEWING ENGINEER FOR APPROVAL.

LIGHTING SCHEDULE

SYMBOL	LABEL	QUANTITY	TYPE OF MOUNT	WATTAGE / COLOR	MOUNTING HEIGHT*	POLE HEIGHT	DISTRIBUTION	CATALOG NUMBER	POLE CATALOG NUMBER
⊠	A	12	CANOPY MOUNTED	78 WATTS LED / 4,000 K	9.67'	N/A	TYPE VS	LSI LIGHTING CRUS-SC-LED-VLW-50 (OR APPROVED EQUAL)	N/A
⊂⊃	B	5	TWIN ROUND POLE	86 WATTS LED / 3,000 K	20.0'	17.5'	TYPE 5ME	CREE LIGHTING-OSQ SERIES (OSQ-DA) OSQ-A-NM-5ME -B-40K-_-BK (TWIN) (OR APPROVED EQUAL)	CREE LIGHTING-SRS SERIES S-R-S-S-11-17.5-SW-BS-2D90-C-BK (OR APPROVED EQUAL)
◉	C	2	SINGLE ROUND POLE	86 WATTS LED / 3,000 K	20.0'	17.5'	TYPE 3ME WITH BLS	CREE LIGHTING-OSQ SERIES (OSQ-DA) OSQ-A-NM-3ME -B-40K-_-BK (OSQ-BLSMF) (OR APPROVED EQUAL)	CREE LIGHTING-SRS SERIES S-R-S-S-11-17.5-SW-BS-1D-C-BK (OR APPROVED EQUAL)
⊕	B	16	BUILDING	5" 17W LED/3,000 K	8.0"	NA	AREA	P5675-3130K	NA

* ABOVE PAVEMENT
(CONTACT MANUFACTURER FOR EXACT LIGHT FIXTURE AND LIGHT POLE SPECIFICATIONS.)

INFORMATION SHOWN HEREON IS TAKEN FROM A PLAN SET ENTITLED "CHICK-FIL-A, TOWNSHIP OF WOODBRIDGE, MIDDLESEX COUNTY, NEW JERSEY BLOCK 201, LOTS 11-14 TAX MAP 22, 17.89± ACRES" DATED MARCH 30, 2020 AND REVISED THROUGH MAY 20, 2021, PREPARED BY GREGORY S. OMAN PE #43441 OF NEW JERSEY OF MENLO ENGINEERING ASSOCIATES.

PROGRESS LIGHTING

Project:
Fixture Type:
Location:
Contact:

Cylinder — Wall Mounted - Damp Location Listed PROGRESS LED

P5642-20/30K



Description:

6" uplight/downlight wall cylinders are ideal for a wide variety of interior and exterior applications including residential and commercial. The aluminum Cylinders offers a contemporary design with its sleek cylindrical form and elegant facle and chip resistant Antique Bronze finish, perfect for today's inspired exteriors. With over 2,150 lumens both up and down the LED Cylinders unite performance, energy savings and safety benefits. Provides even illumination up and down. Specify P8600046 top cover lens for use in wet locations.

Specifications:

- Antique Bronze finish.
- Powder coat finish.
- Die-cast aluminum construction with durable powder coated finish
- 2,150 lumens 30 lumens/watt per module (delivered)
- 3000K color temperature, 90+ CRI
- Meets California Title 24 high efficacy requirements for outdoor use only.
- Dimmable to 10% with many ELV dimmers
- Dimmable to 10% brightness (See Dimming Notes)
- Back plate covers a standard 4" recessed outlet box: 4.5 in W., 4.5 in ht., 2.94 in depth
- Mounting strap for outlet box included
- 6 in of wire supplied

Performance:

Number of Modules	2
Input Power	29 W
Input Voltage	120 V
Input Frequency	60 Hz
Lumens/LPW (Down-Source)	1262/44 (LM-82) per module
Lumens/LPW (Up-Source)	1300/44 (LM-82) per module
Lumens/LPW (Delivered)	2,150/30 (LM-79)
CCT	3000 K
CRI	90 CRI
Life (hours)	60000 (L70/TM-21)
EMI/RFI	FCC Title 47, Part 15, Class B
Max. Operating Temp	30 °C
Warranty	5 year Limited Warranty
Labels	cCSAus Damp Location Listed

Dimensions:

Width: 6 in
Height: 18 in
Depth: 8-7/8 in
H/CTR: 8 in

FIXTURE 'D'

CREE LIGHTING

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998
Telephone 404-765-8000

REV	DATE	DESCRIPTION	DRAWN BY

Seal

Colliers Engineering & Design
www.colliersengineering.com
Doing Business as MASER
RED BANK (Headquarters)
331 Newman Springs Road, Suite 203
Red Bank, NJ 07701
Phone: 732.383.1950

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STORE #04591

BLOCK 201
LOTS LINE 11-14
TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY
NEW JERSEY

BID SET

LIGHTING PLAN

DWG EDITION 2.0

- ☐ Preliminary
- ☐ 80% Submittal
- ☐ For Construction

File No.: 19003093A
Store : 04591
Date : 01/21/22
Drawn By: PJC
Checked By: VDK

Sheet

ES 1

20191900930\Bid Set\Engineering Drawings\engineering\site plans\CC-LIGHT.dwgES 1 Lighting Plan By: VKELLY

U.S. HIGHWAY ROUTE 9
VARIABLE WIDTH R.O.W.

P12-LE-LARGE-NJ
TOTAL GROSS SF. = 5,256 SQ. FT.
INTERIOR SEATS = 94

NJDOT DTS LINE
50' FRONT YARD SETBACK LINE
ACCESS DRIVEWAY
LOT 1-A TM BLOCK 199B
N/F
McDONALD'S REST C/O
EXISTING 1 STORY BUILDING (12,675± SF) BUILDING HEIGHT = 23.2± FT.

UTILITIES PLAN LEGEND

1. PROPOSED 4" PVC SDR 35 SAN LATERAL @ 2% MIN SLOPE
2. PROPOSED CLEAN-OUT (TYP.)
3. PROPOSED EXTERIOR 1,500 GAL. GREASE TRAP
4. CONNECT TO EXIST SANITARY LINE (SEE NOTE #1)
5. PROPOSED UNDERGROUND PRIMARY ELECTRIC/ TELEPHONE SERVICE
6. CONNECT TO EXISTING ELEC/TELE SERVICE
7. PROPOSED 2" TYPE K COPPER DOMESTIC LINE
8. PROPOSED 6" DIP FIRE LINE
9. PROPOSED 3/4" CW TO DUMPSTER POST HYDRANT
10. PROPOSED GAS LINE
11. PROPOSED GAS METER
12. CONNECT TO EXISTING GAS LINE (SEE NOTE #3)
13. PROPOSED 4" SCH 40 PVC CONDUIT
14. PROP. 4" PVC SDR 35 KITCHEN WASTE LINE @ 2% MIN
15. PROP. 4" PVC SDR 35 RESTROOM WASTE LINE@ 2% MIN
16. PROPOSED 8" HDPE @ 1.0 % ROOF DRAIN (TYP.)
17. PROPOSED 3" VENT LINE
18. PROPOSED TWO-WAY CLEAN-OUT (TYP.)
19. CONNECT TO EXISTING WATER SERVICE (SEE NOTE #2)
20. PROPOSED TRANSFORMER
21. PROPOSED ELECTRIC PANEL
22. FOUR (4) 4" PVC CONDUITS WITH PULL STRING FOR SECONDARY ELECTRIC SERVICE.
    TWO (2) 4" PVC CONDUITS WITH PULL STRINGS FOR TELEPHONE SERVICE.
    ONE (1) 3" PVC CONDUIT WITH PULL STRING FOR CABLE SERVICE.
23. PROPOSED CANOPY GAS LINE
24. PROPOSED CANOPY ELECTRIC LINE
25. PROPOSED ELECTRIC PANEL
26. PROPOSED 3" PVC CANOPY DRAIN @ 1% (TYP.)
27. PROPOSED FIRE HYDRANT W/VALVE
28. PROPOSED ELECTRIC RISER POLE
29. PROPOSED EV CHARGING UNIT

NOTES:

1. CONTRACTOR TO FIELD LOCATE THE EXISTING 6" PVC SANITARY SEWER LATERAL AND SUPPLY LOCATION, ALIGNMENT AND DEPTH TO THE ENGINEER OF RECORD FOR CONNECTION TO THE BUILDING. PROPOSED CONNECTION TYPE SHALL BE VERIFIED BY THE GOVERNING UTILITY AUTHORITY.
2. PROPOSED 2" DOMESTIC AND 6" FIRE SERVICES TO BE CONNECTED TO EXISTING 12" WATER MAIN. CONTRACTOR VERIFY LOCATION AND SIZE OF EXISTING WATER MAIN PRIOR TO CONSTRUCTION.
3. PROPOSED RELOCATED GAS SERVICE TO CONNECT TO EXISTING SERVICE. PROPOSED RELOCATION/CONNECTION TO BE VERIFIED BY GOVERNING UTILITY AUTHORITY.
4. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES FOR PROPOSED CONNECTION.
5. PROPOSED GAS AND ELECTRIC SERVICE FOR THE MEAL DELIVERY CANOPY SHALL BE RUN FROM THE ROOF LINE.
6. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS.

LEGEND

EXISTING		PROPOSED
12+00 TL PI 13+00	TRAVERSE LINE, CENTER LINE OR BASELINE (LABEL AS SUCH)	12+00 13+00
	RIGHT OF WAY LINE	
	PROPERTY LINE	
	EDGE OF PAVEMENT	
FACE / BACK	CURB	FACE / BACK
	DEPRESSED CURB	
	SIDEWALK	
X X	FENCES	X X
	TREELINE	
	ROADWAY SIGNS	
	WETLAND LINE	
	MUNICIPAL BOUNDARY LINE	
	'B' INLET	
	'E' INLET	
D	STORM MANHOLE	D
S	SANITARY MANHOLE	S
	FLARED END SECTION	
	HEADWALL	
	HYDRANT	
	POLE MOUNTED LIGHT	
CATV	CABLE TV CONDUIT	CATV
W	WATER MAIN	W
G	GAS MAIN	G
T	TELEPHONE CONDUIT	T
E	ELECTRIC CONDUIT	E
	SANITARY PIPE	
	STORM PIPE	

20 0 20 40
SCALE : 1" = 20'

Know what's below. Call before you dig. 811
1-800-272-1000

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Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998
Telephone 404-765-8000

REV	DATE	DESCRIPTION	DRAWN BY
3	1/31/23	REVISED PER ADDITION OF EV CHARGING UNIT	TL
2	2/17/22	REV. PER TRANSFORMER DETAILS, LA ADD DET'L SHT	VDK
1	2/8/22	REV. PER PSEG SITE MEETING	VDK

Seal

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STORE #04591

BLOCK 201
LOTS LINE 11-14
TOWNSHIP OF WOODBRIDGE
MIDDLESEX COUNTY
NEW JERSEY

BID SET

UTILITY PLAN

DWG EDITION 2.0

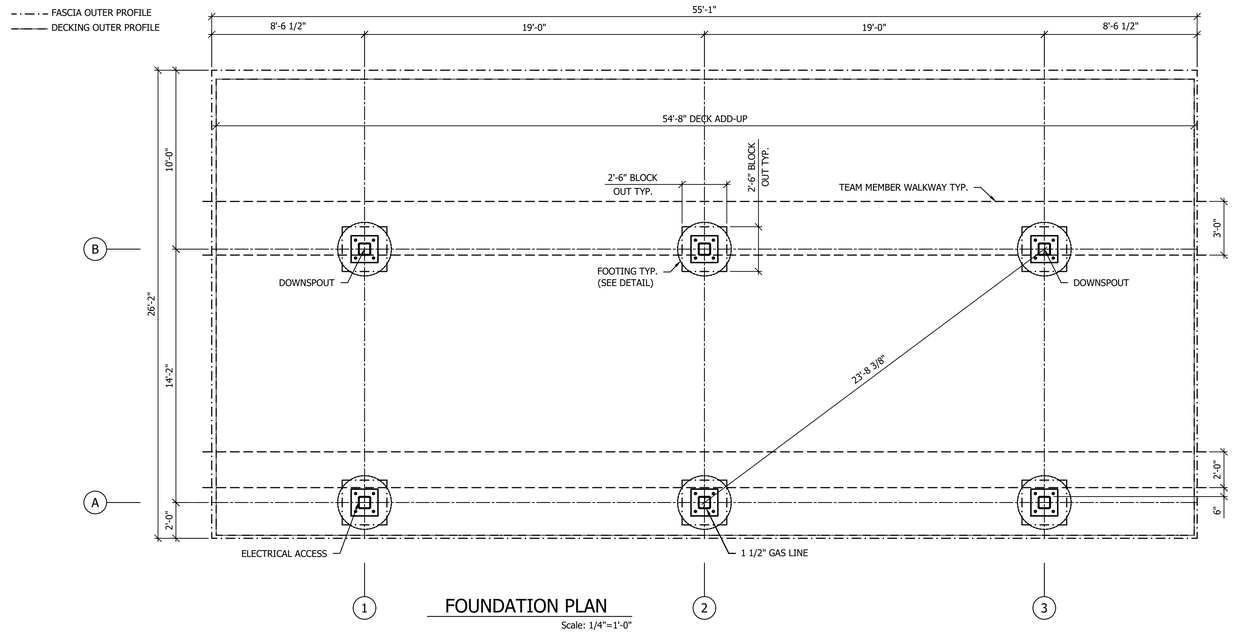
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Sheet

PS 1

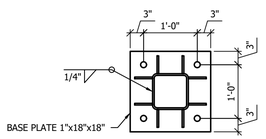
2019\19003093A\Mdl Set\Engineering Drawings\engineering\site plans\C.LAYT.dwg\PS 1 Utility Plan By: VKELLY

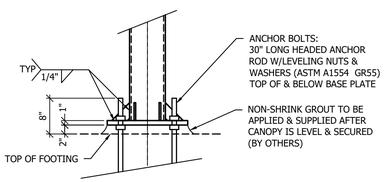


FOUNDATION PLAN

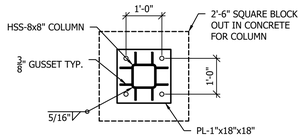
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NOTE:
NEW CANOPY FOOTINGS SHALL NOT IMPACT OR INTERFERE WITH THE EXISTING BUILDING FOOTINGS. THE GENERAL CONTRACTOR SHALL NOTIFY THE CANOPY DESIGNER, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD OF ANY CONFLICTS BETWEEN THE NEW FOOTINGS AS SHOWN AND THE EXISTING BUILDING STRUCTURE PRIOR TO PLACEMENT OF CONCRETE TO ALLOW FOR MODIFICATION OF DESIGN FOR UNFORESEEN FIELD CONDITIONS.

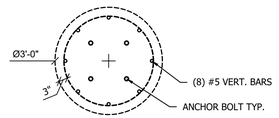




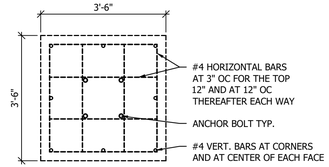
BASE PLATE DETAIL



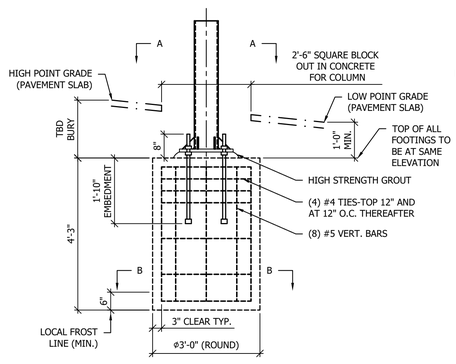
SECTION A-A



SECTION B-B



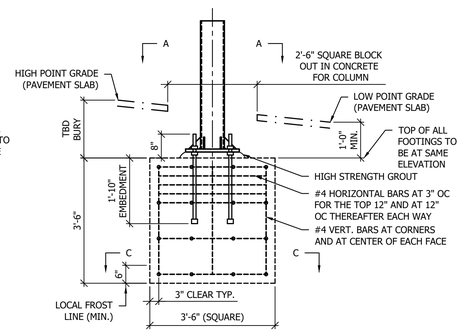
SECTION C-C



A
CA1

ROUND FOUNDATION DETAIL

Scale:



B
CA1

SQUARE FOUNDATION DETAIL

FOOTING NOTES
1. OWNER / GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FOOTING AND ANCHOR BOLT INSTALLATION.
2. ALL FOOTINGS SHALL BE CAST ON LEVEL UNDISTURBED SOIL, ROCK OR PROPERLY COMPACTED SUBGRADE. FOOTING SIZE BASED ON MAXIMUM 3000 PSF SOIL BEARING AT BASE AND 200 PSF PER FOOT OF DEPTH LATERAL BEARING CAPACITY. A GEOTECHNICAL INVESTIGATION REPORT WAS NOT PROVIDED BY THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL SOIL PARAMETERS AND FOLLOWING APPLICABLE SOIL PREPARATION RECOMMENDATIONS.
3. FOOTING CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
4. FOOTING DESIGN BASED ON AN ASSUMED 1'-6" BURY OF THE COLUMNS FROM THE BOTTOM OF BASEPLATE TO FINISHED GRADE. ANY AMOUNT OF BURY LESS THAN 1'-0" WILL RESULT IN A LARGER FOOTING SIZE.
5. TOPS OF ALL FOOTINGS ARE ASSUMED TO BE AT SAME ELEVATION. OWNER / GENERAL CONTRACTOR SHALL PROVIDE BURIAL DEPTH FROM HIGH GRADE UNDER CANOPY. WHERE TOPS OF FOOTINGS ARE AT DIFFERENT ELEVATIONS, THE OWNER / GENERAL CONTRACTOR SHALL PROVIDE THE CANOPY MANUFACTURER WITH ALL FOOTING AND GRADE ELEVATIONS PRIOR TO CANOPY FABRICATION. VARIATIONS FROM DESIGN ELEVATIONS MAY RESULT IN INADEQUATE CLEARANCE AND UNDER SIZED FOOTINGS.
6. OWNER / GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING NON-SHRINK GROUT UNDER ALL COLUMN BASES AFTER CANOPY IS LEVELED AND SECURED.
7. FOOTING REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 DEFORMED BILLET STEEL BARS WITH SPACING AS SHOWN ON DRAWING.
8. FOOTINGS ARE ASSUMED TO BE CONSTRAINED BY DRIVE MAT CONCRETE. WHERE THIS CONDITION DOES NOT EXIST, THE OWNER SHALL NOTIFY CANOPY MANUFACTURER.
9. ANCHOR BOLTS SHALL BE PLACED IN ACCORDANCE WITH THIS DRAWING. TEMPLATES SHALL BE USED TO ENSURE PROPER PLACEMENT OF ANCHOR BOLTS. ANCHOR BOLTS ARE TO BE INSTALLED SUCH THAT A MINIMUM OF 8" OF THREAD IS EXPOSED ABOVE TOP OF FOOTING. BOTTOM OF THREADS SHALL NOT END MORE THAN 3/4" ABOVE TOP OF FOOTER.
10. ANY DISCREPANCIES BETWEEN THE ABOVE NOTES AND LOCAL BUILDING CODE REQUIREMENTS SHALL BE REPORTED TO THE CANOPY MANUFACTURER IMMEDIATELY. COMMENCEMENT OF FOOTING INSTALLATION SHALL INDICATE THAT THE ABOVE NOTE MEETS LOCAL BUILDING CODE REQUIREMENTS.

REQUIRED VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
INSPECTION OF FABRICATORS			
STEEL CONSTRUCTION			
MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS AND WASHERS	–	X	AISC 360, SECTION A3.3
INSPECTION OF HIGH STRENGTH BOLTING	–	X	AISC, SECTION M2.5
INSPECTION OF WELDING–VISUAL SINGLE PASS WELDS 5/16" AND LESS	–	X	AWS D1.1
ROOF DECK	–	X	APPLICABLE ASTM MATERIAL STANDARDS
CONCRETE CONSTRUCTION			
REINFORCING STEEL, INCLUDING PLACEMENT	–	X	ACI 318: Ch. 20, 25.2, 25.3, 26.5.1–26.5.3
INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE	–	X	ACI 318: 3.8.6, 8.1.3, 21.2.8
VERIFYING USE OF REQUIRED DESIGN MIX	–	X	ACI 318: Ch. 19, 26.4.3, 26.4.4
CONCRETE SAMPLING FOR STRENGTH, SLUMP, TEMPERATURE AND AIR CONTENT	X	–	ASTM C172, ASTM C31, ACI 318: 26.4.5, 26.12
INSPECTION OF FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF MEMBERS BEING FORMED	–	X	ACI 318: 26.10.1(b)
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	X	–	ACI 318: 26.4.7–26.4.9
INSPECT CONCRETE FOR PROPER APPLICATION TECHNIQUES	X	–	ACI 318: 26.4.5
SOIL			
VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY	–	X	
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	–	X	
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	X	–	
PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVED SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	–	X	

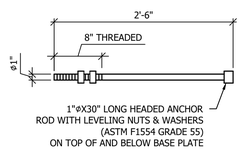
The Owner shall employ one or more special inspectors to provide inspections during construction on the types of work listed in the Schedule of Special Inspections. The special inspector shall be a qualified person certified by the NJ Department of Community Affairs who shall demonstrate competence to the satisfaction of the Building Official, and be approved by the Structural Engineer of Record, for inspection of the particular type of construction or operation requiring special inspection.

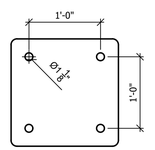
The contractor shall be responsible to notify and coordinate all required special inspections with the special inspection agency prior to performing any work that requires special inspections. The contractor shall notify the special inspection agency at least 24 hours in advance to performing any work that requires special inspections.

Job safety is solely the responsibility of the contractor. Materials and activities to be inspected are not to include the contractor's equipment and methods used to erect or install the materials listed.

The Special Inspectors shall keep records of all inspections and shall furnish inspection reports to the Construction Official and to the Structural Engineer of Record. All discrepancies shall be brought to the immediate attention of the contractor for correction. If the discrepancies are not corrected, the discrepancies shall be immediately brought by the Special Inspector to the attention of the Code Official and the Structural Engineer of Record.

The special inspection agency shall submit a final report signed and sealed by a New Jersey PE that is in charge of the inspections. This final report shall document all required special inspections, test or structural observations and any discrepancies noted in these inspections.





(24) ABT18S 1"ø x 30" ANCHOR BOLTS
(6) CFA-ABT WOOD TEMPLATES

FOR ANCHOR BOLT SHIPMENT

IMAGE RESOURCE GROUP

REVISION HISTORY

REV.	DATE	BY	DESCRIPTION

01/11/2022

STATE OF NEW JERSEY · ANGELOSH PAUL · No. 046381 · LICENSED PROFESSIONAL ENGINEER

EXP 04-30-2022

Fashion

1019 E. North Street
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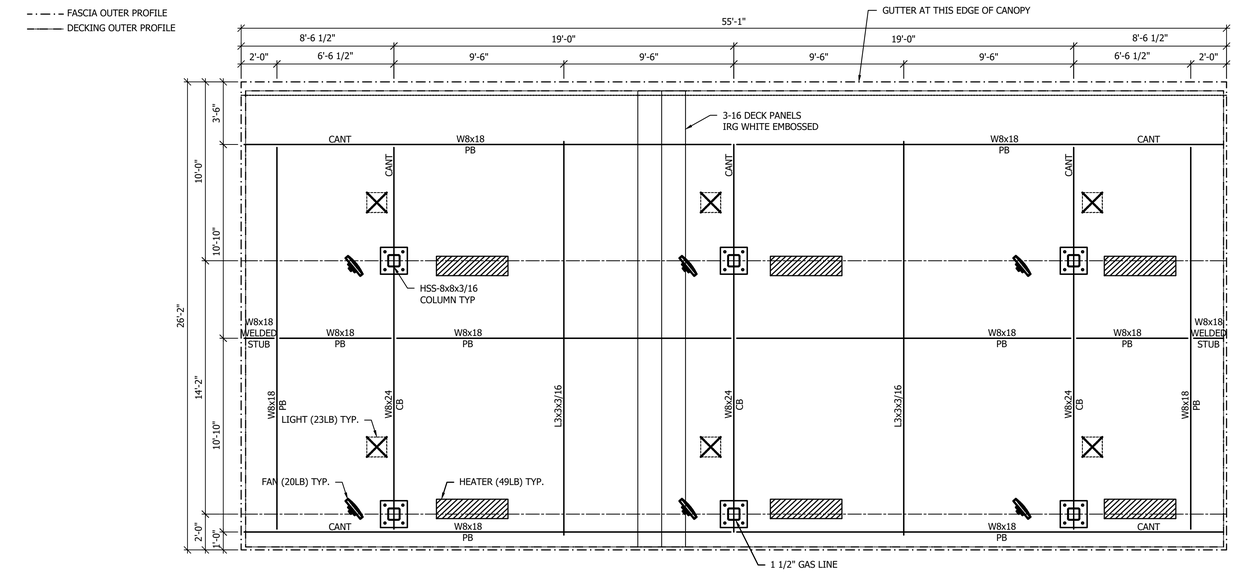
(6) COLUMN CANOPY
F2F CANOPY

SCALE:	DRAWN BY:	CHECKED BY:
AS SHOWN	JDG	AP

JOB NUMBER: 64591

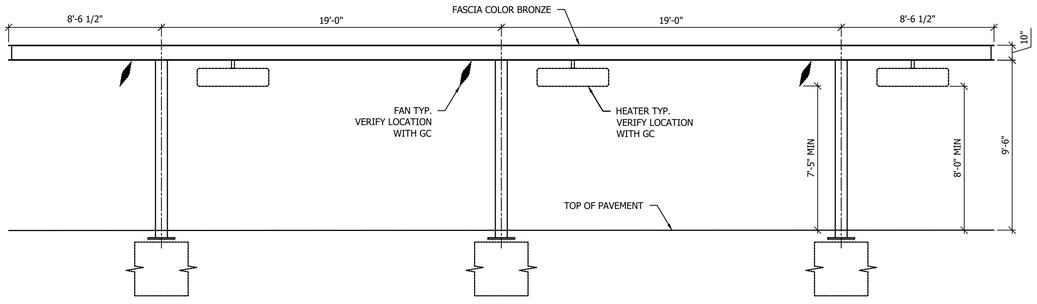
SHEET TITLE: FOUNDATION PLAN

SHEET NUMBER: CA1



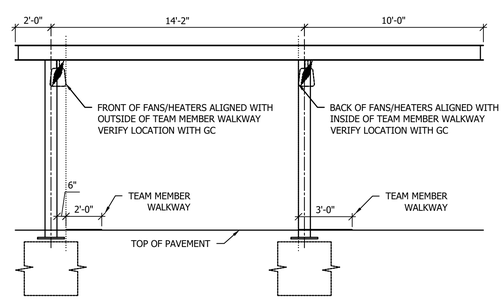
FRAMING PLAN

Scale: 1/4"=1'-0"



SIDE ELEVATION

Scale: 1/4"=1'-0"



END ELEVATION

Scale: 1/4"=1'-0"

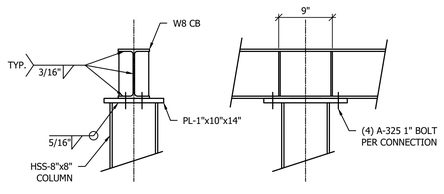
STEEL NOTES
1. DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST AISC SPECIFICATIONS. DESIGN, FABRICATION AND ERECTION OF COLD FORMED STEEL SECTIONS SHALL CONFORM TO THE LATEST AISI SPECIFICATIONS.
2. STRUCTURAL MATERIALS:
WIDE FLANGE SECTIONS - ASTM A992 OR A572 GRADE 50 (Fy = 50 KSI)
ANGLES / CHANNELS - ASTM A36 (Fy = 36 KSI)
HOLLOW STRUCTURAL SECTIONS (TUBE) - ASTM A500 GRADE B (Fy = 46 KSI)
PIPE SECTIONS - ASTM A53, GRADE B (Fy = 35 KSI)
PLATE - ASTM A36 (Fy = 36 KSI)
ROOF DECK - ASTM A653, GRADE 50 (Fy = 50 KSI), GALVANIZED (G60) WITH BAKED ENAMEL FINISH
STEEL OUTRIGGERS - ASTM A653 GR. CS (Fy = 25 KSI), GALVANIZED (G90) PER ASTM 924
STRUCTURAL BOLTS - ASTM A325
ANCHOR BOLTS - ASTM F1554 GR. 36
3. WELDING OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH LATEST ANSI / AWS D1.1
4. FIELD CONNECTIONS SHALL BE BOLTED CONNECTIONS UNLESS SPECIFIED ON DRAWING.
5. ALL STRUCTURAL BOLTED CONNECTIONS SHALL USE ASTM A325 BOLTS. BOLTED JOINTS SHALL BE TIGHTENED TO SNUG TIGHT PER LATEST RCSC SPECIFICATION.
6. STRUCTURAL STEEL SHALL BE SHOP COATED WITH A RED-OXIDE RUST INHIBITIVE PRIMER. FIELD TOUCH-UP, FINISH PAINTING, AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE OWNER (UNLESS OTHERWISE SPECIFIED).
7. DESIGN LOADS PER 2018 INTERNATIONAL BUILDING CODE WITH NJ AMENDMENTS AND LOCAL REQUIREMENTS:

ROOF LIVE LOAD =	20 PSF
FLAT ROOF SNOW LOAD =	21 PSF + DRIFT @ ADJACENT BUILDING
BASED ON GROUND SNOW LOAD=	25 PSF

WIND LOADS:
LATERAL = 41.0 PSF (ULTIMATE)
UPLIFT = 18.8 PSF (ULTIMATE)
BASED ON 115 MPH 3 SECOND GUST WIND SPEED AND EXPOSURE 'B' PER ASCE 7-16.
RISK CATEGORY II

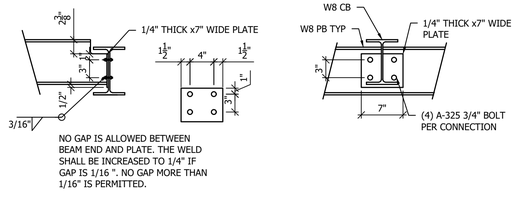
SEISMIC LOADS:
SEISMIC RISK CATEGORY II, SITE CLASS "D" ASSUMED, SEISMIC DESIGN CATEGORY "B"
Sds = 0.285g (Ss = 0.177g, Fa = 1.6), Sd1 = 0.092g (S1 = 0.057g, FV = 2.4)
SEISMIC FORCE RESISTING SYSTEM IS INVERTED PENDULUM - CANTILEVERED COLUMN, R = 1.25
Cs = 0.228

DEAD LOADS:
DECK / GUTTER / LIGHTS - 4.5 PSF
FASCIA - 4.5 PSF (PER DESIGN)
STRUCTURAL STEEL - SELF WT
CONCRETE - 150 PCF



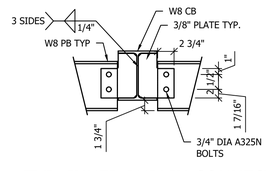
TYP. COLUMN / CROSSBEAM CONNECTION

Scale: 1" = 1'-0"



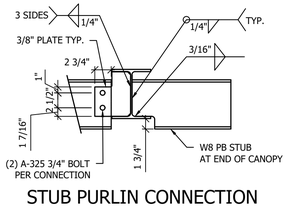
TYP. CONTINUOUS PURLIN CONNECTION

Scale: 1" = 1'-0"



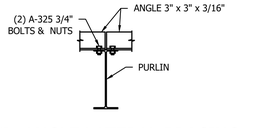
TYP. INNER PURLIN CONNECTION

Scale: 1" = 1'-0"



STUB PURLIN CONNECTION

Scale: 1" = 1'-0"



TYP. ANGLE LATERAL BRACING

Scale: 1" = 1'-0"

IMAGE RESOURCE GROUP

REVISION HISTORY

REV.	DATE	BY	DESCRIPTION

01/11/2022



EXP 04-30-2022

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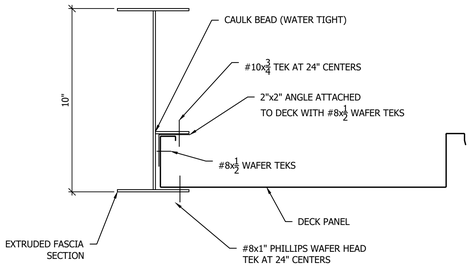
(6) COLUMN CANOPY
F2F CANOPY

SCALE:	DRAWN BY:	CHECKED BY:
AS SHOWN	JDG	AP

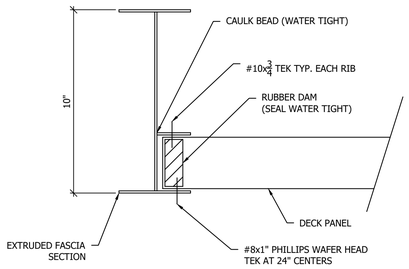
JOB NUMBER: 64591

SHEET TITLE: FRAMING PLAN

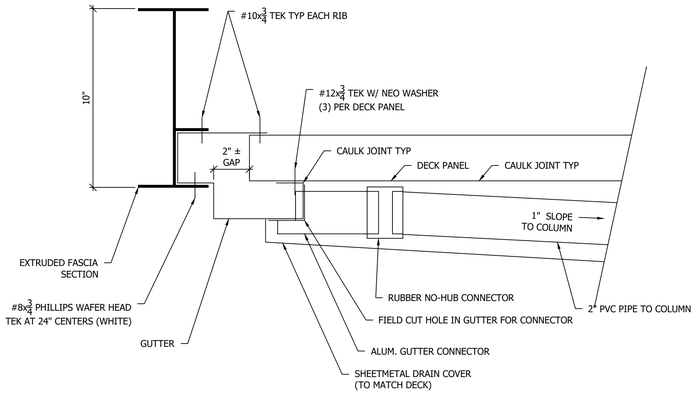
SHEET NUMBER: CA2



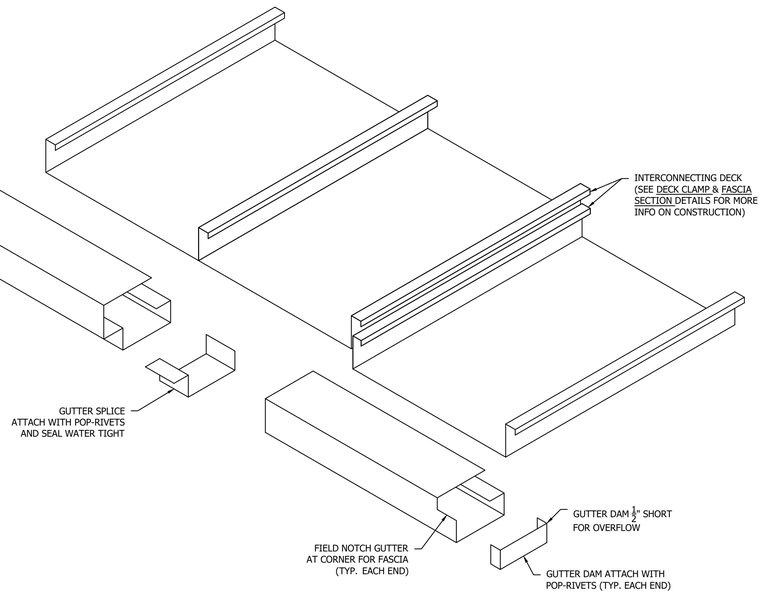
FASCIA SECTION (ENDS)

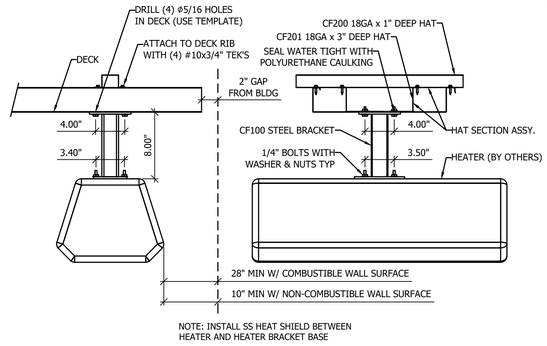


FASCIA SECTION (SIDE WITHOUT GUTTER)

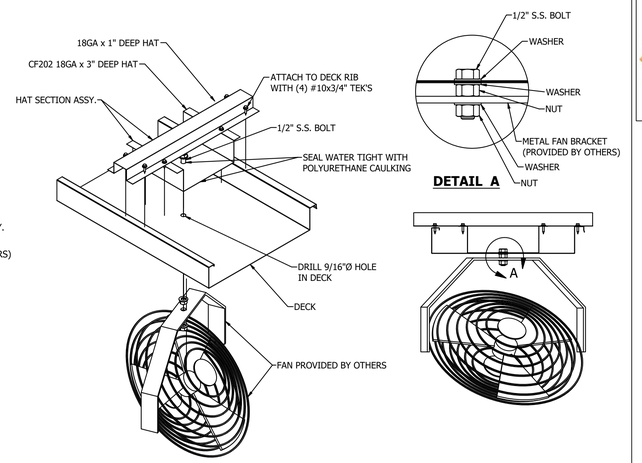


FASCIA / GUTTER SECTION W/ UNDERGROUND DRAINAGE

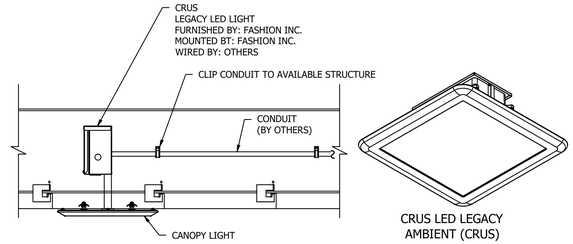




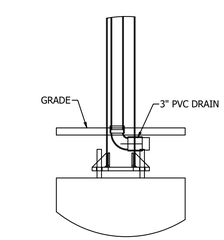
HEATER BRACKET DETAIL



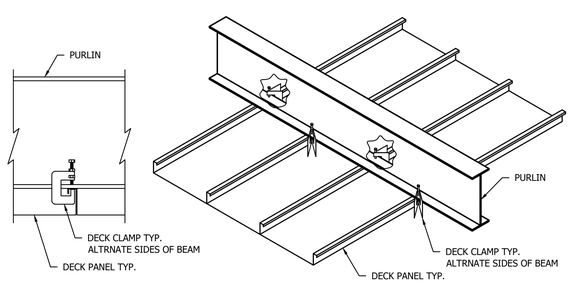
FAN BRACKET DETAIL



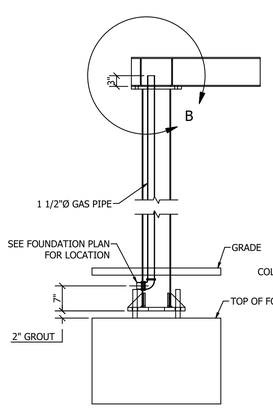
CANOPY LIGHT DETAIL



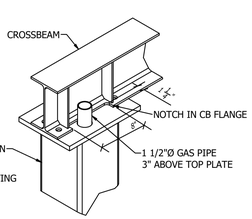
BELOW GRADE DRAINAGE



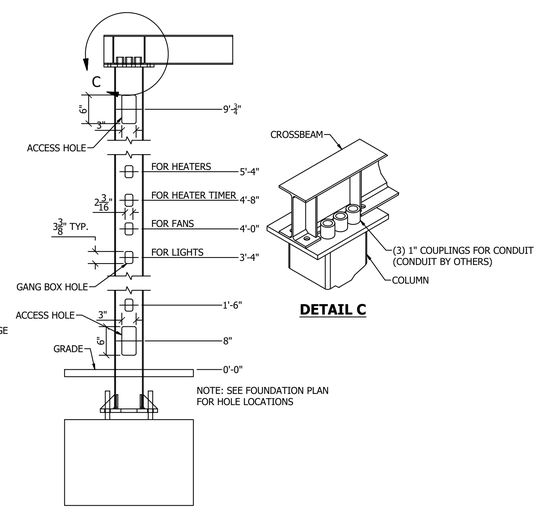
DECK CLAMP DETAIL



GAS PIPE DETAIL



DETAIL B



DETAIL C

ACCESS HOLE / GANG BOX HOLE DETAIL

IMAGE RESOURCE GROUP

REV.	DATE	BY	DESCRIPTION

REVISION HISTORY

01/11/2022

STATE OF NEW JERSEY
ASHLEY M. FASCIA
No. 046381
LICENSED
PROFESSIONAL ENGINEER
EXP 04-30-2022

Fashion

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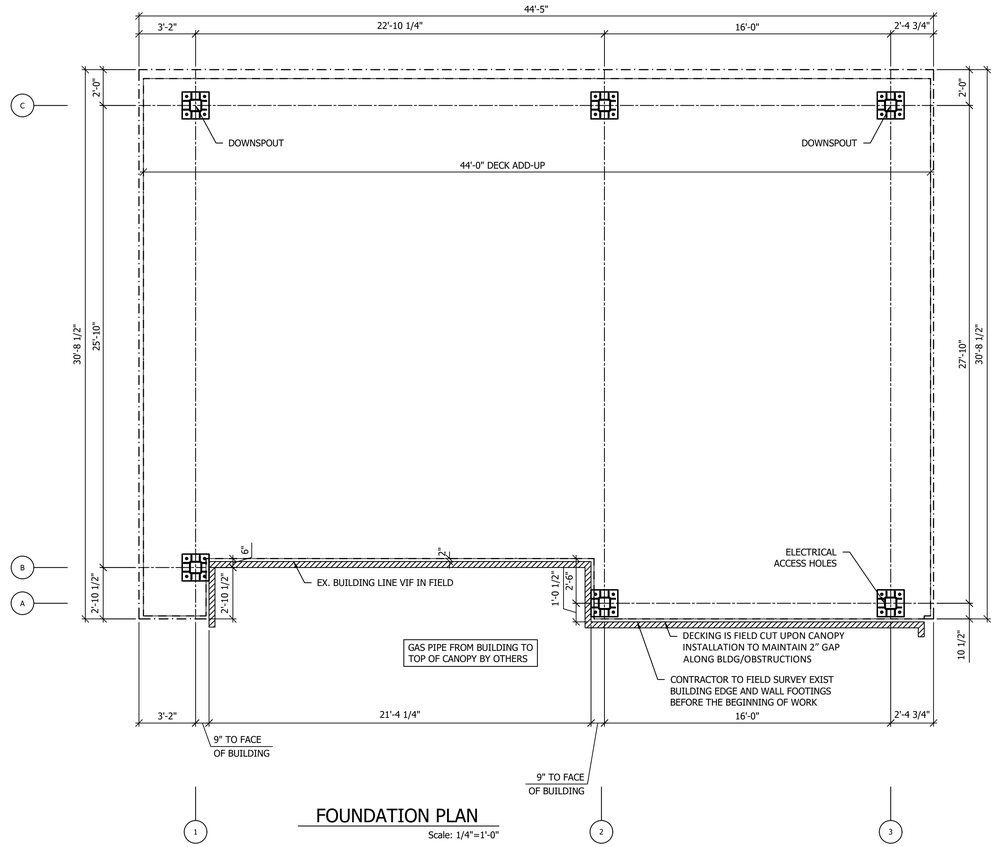
(6) COLUMN CANOPY
F2F CANOPY

SCALE:	DRAWN BY:	CHECKED BY:
AS SHOWN	JDG	AP

JOB NUMBER: 64591

SHEET TITLE: STANDARD DETAILS

SHEET NUMBER: CA3



FOUNDATION PLAN

Scale: 1/4"=1'-0"

FOOTING NOTES

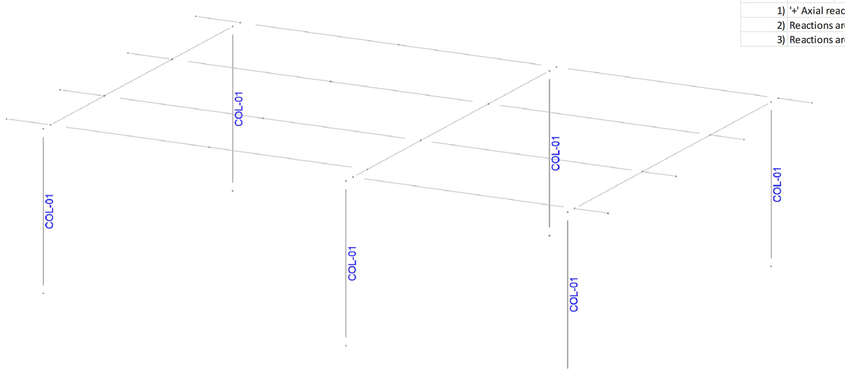
1. OWNER / GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FOOTING AND ANCHOR BOLT INSTALLATION.
2. FOOTING DESIGN BY OTHERS. FOUNDATION ENGINEER TO PROVIDE ANCHOR REINFORCEMENT AS REQUIRED PER REACTIONS PROVIDED
3. TOPS OF ALL FOOTINGS ARE ASSUMED TO BE AT SAME ELEVATION. OWNER / GENERAL CONTRACTOR SHALL PROVIDE BURIAL DEPTH FROM HIGH GRADE UNDER CANOPY. WHERE TOPS OF FOOTINGS ARE AT DIFFERENT ELEVATIONS, THE OWNER / GENERAL CONTRACTOR SHALL PROVIDE THE CANOPY MANUFACTURER WITH ALL FOOTING AND GRADE ELEVATIONS PRIOR TO CANOPY FABRICATION. VARIATIONS FROM DESIGN ELEVATIONS MAY RESULT IN INADEQUATE CLEARANCE AND UNDER SIZED FOOTINGS.
4. OWNER / GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING NON-SHRINK GROUT UNDER ALL COLUMN BASES AFTER CANOPY IS LEVELED AND SECURED.
5. ANCHOR BOLTS SHALL BE PLACED IN ACCORDANCE WITH THIS DRAWING. TEMPLATES SHALL BE USED TO ENSURE PROPER PLACEMENT OF ANCHOR BOLTS. ANCHOR BOLTS ARE TO BE INSTALLED SUCH THAT A MINIMUM OF 8" OF THREAD IS EXPOSED ABOVE TOP OF FOOTING. BOTTOM OF THREADS SHALL NOT END MORE THAN 3/4" ABOVE TOP OF FOOTER.
6. ANY DISCREPANCIES BETWEEN THE ABOVE NOTES AND LOCAL BUILDING CODE REQUIREMENTS SHALL BE REPORTED TO THE CANOPY MANUFACTURER IMMEDIATELY. COMMENCEMENT OF FOOTING INSTALLATION SHALL INDICATE THAT THE ABOVE NOTE MEETS LOCAL BUILDING CODE REQUIREMENTS.
7. ANCHOR BOLTS OKAY FOR A SQUARE FOUNDATION OF DIMENSION 5'0"x5'0"x2'-2" WITH F'c=2500 PSI. A BEARING PRESSURE OF 3000PSF IS ASSUMED FOR THE SOIL.
8. ANCHOR BOLTS REQUIRE ADDITIONAL TENSION REINFORCMENT AS PER ACI FOR A ROUND FOUNDATION OF 3'-0" DIAMETER AND 5'6" DEPTH WITH F'c=2500 PSI. A 3'-6" DIAMETER ROUND FOOTING WOULD BE OKAY WITHOUT THE ADDITIONAL ANCHOR REINFORCEMENT AND DEPTH OF 5'-3". A BEARING PRESSURE OF 3000PSF IS ASSUMED FOR THE SOIL.

COLUMN-01:	FORCE (KIP)			MOMENTS (KIP-FT)	
LOAD CASE	Shear, Vx	Axial	Shear, Vz	Mx	Mz
Dead Load:	0.0	3.60	±1.20	4.44	0.0
Snow Load:	0.0	8.04	±3.00	10.92	0.0
Roof Live Load:	0.0	8.52	±3.12	12.00	0.0
Wind Load in X-direction (Ultimate):	±0.54	0.0	±0.00	0.0	±4.50
Wind Load in Z-direction (Ultimate):	0.0	±7.80	±3.00	±10.80	±0.00

COLUMN-02:	FORCE (KIP)			MOMENTS (KIP-FT)	
LOAD CASE	Shear, Vx	Axial	Shear, Vz	Mx	Mz
Dead Load:	0.0	±0.70	±0.00	0.00	0.3
Snow Load:	0.0	±0.40	±0.00	0.00	0.5
Roof Live Load:	0.0	±0.40	±0.00	0.00	0.5
Wind Load in X-direction (Ultimate):	±0.48	±0.00	±0.00	0.0	±4.04
Wind Load in Z-direction (Ultimate):	0.0	±0.62	±0.34	±2.53	±2.53

NOTES:

1) '+' Axial reaction denotes downward reaction and '-' denotes uplift.
2) Reactions are given 1 foot below finished grade.
3) Reactions are increased by 20% conservatively.



REQUIRED VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
INSPECTION OF FABRICATORS			
STEEL CONSTRUCTION			
MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS AND WASHERS	–	X	AISC 360, SECTION A3.3
INSPECTION OF HIGH STRENGTH BOLTING	–	X	AISC, SECTION M2.5
INSPECTION OF WELDING–VISUAL SINGLE PASS WELDS 5/16" AND LESS	–	X	AWS D1.1
ROOF DECK	–	X	APPLICABLE ASTM MATERIAL STANDARDS
CONCRETE CONSTRUCTION			
REINFORCING STEEL, INCLUDING PLACEMENT	–	X	ACI 318: Ch. 20, 25.2, 25.3, 26.5.1–26.5.3
INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE	–	X	ACI 318: 3.8.6, 8.1.3, 21.2.8
VERIFYING USE OF REQUIRED DESIGN MIX	–	X	ACI 318: Ch. 19, 26.4.3, 26.4.4
CONCRETE SAMPLING FOR STRENGTH, SLUMP, TEMPERATURE AND AIR CONTENT	X	–	ASTM C172, ASTM C31, ACI 318: 26.4.5, 26.12
INSPECTION OF FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF MEMBERS BEING FORMED	–	X	ACI 318: 26.10.1(b)
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	X	–	ACI 318: 26.4.7–26.4.9
INSPECT CONCRETE FOR PROPER APPLICATION TECHNIQUES	X	–	ACI 318: 26.4.5
SOIL			
VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY	–	X	
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	–	X	
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	X	–	
PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVED SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	–	X	

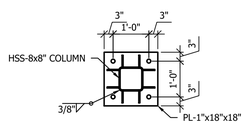
The Owner shall employ one or more special inspectors to provide inspections during construction on the types of work listed in the Schedule of Special Inspections. The special inspector shall be a qualified person certified by the NJ Department of Community Affairs who shall demonstrate competence to the satisfaction of the Building Official, and be approved by the Structural Engineer of Record, for inspection of the particular type of construction or operation requiring special inspection.

The contractor shall be responsible to notify and coordinate all required special inspections with the special inspection agency prior to performing any work that requires special inspections. The contractor shall notify the special inspection agency at least 24 hours in advance to performing any work that requires special inspections.

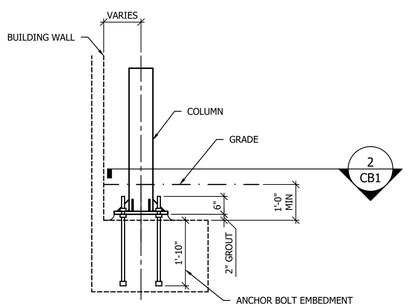
Job safety is solely the responsibility of the contractor. Materials and activities to be inspected are not to include the contractor's equipment and methods used to erect or install the materials listed.

The Special Inspectors shall keep records of all inspections and shall furnish inspection reports to the Construction Official and to the Structural Engineer of Record. All discrepancies shall be brought to the immediate attention of the contractor for correction. If the discrepancies are not corrected, the discrepancies shall be immediately brought by the Special Inspector to the attention of the Code Official and the Structural Engineer of Record.

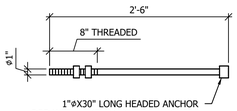
The special inspection agency shall submit a final report signed and sealed by a New Jersey PE that is in charge of the inspections. This final report shall document all required special inspections, test or structural observations and any discrepancies noted in these inspections.



2 CB1 BASE PLATE

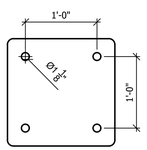


1 CB1 SECTION COLUMN AT WALL



ANCHOR BOLTS

(4) REQ'D PER FOOTING



(28) ABT18S 1"ø x 30" ANCHOR BOLTS
(7) CFA-ABT WOOD TEMPLATES

FOR ANCHOR BOLT SHIPMENT

IMAGE RESOURCE GROUP

REVISION HISTORY

REV.	DATE	BY	DESCRIPTION
3	8/11/22	MAS	DESIGN NOTES

08-26-2022

STATE OF NEW JERSEY · ANGELOSH PATEL · No. 046381 · LICENSED PROFESSIONAL ENGINEER

EXP 04-30-2024

Fashion

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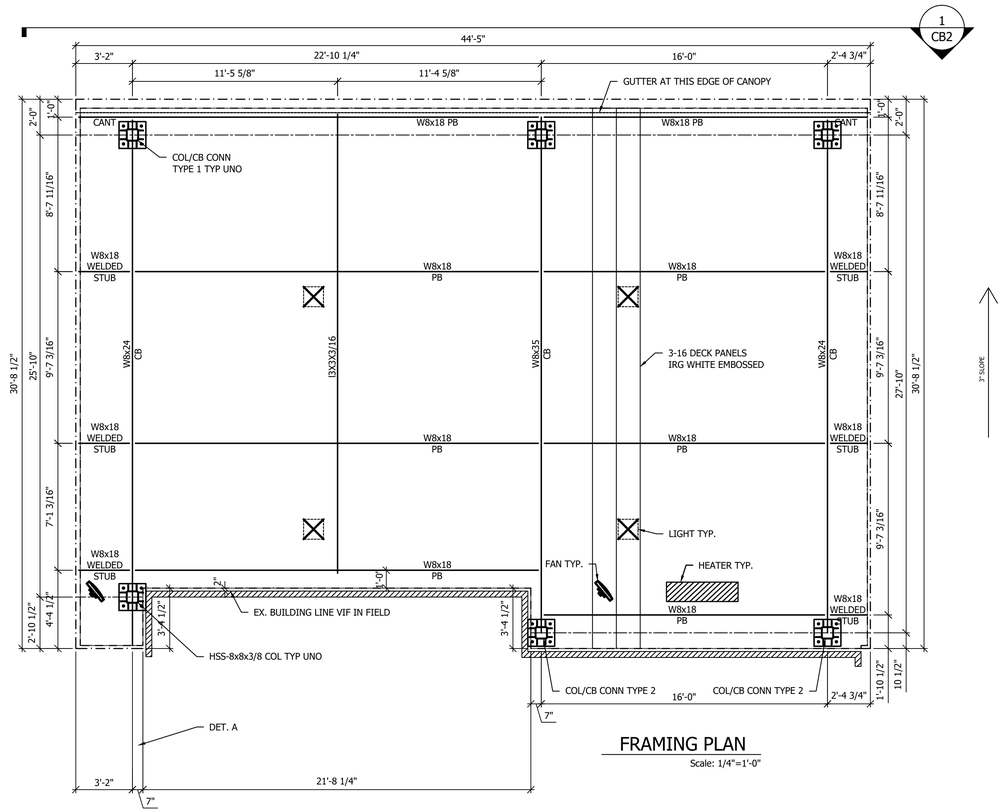
(7) COLUMN CANOPY
OMD CANOPY

SCALE:	DRAWN BY:	CHECKED BY:
AS SHOWN	MAS	AP

JOB NUMBER: 64591.1

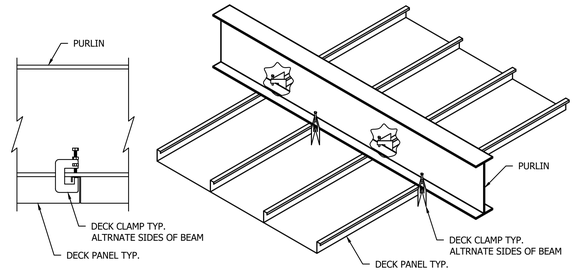
SHEET TITLE: FOUNDATION PLAN

SHEET NUMBER: CB1

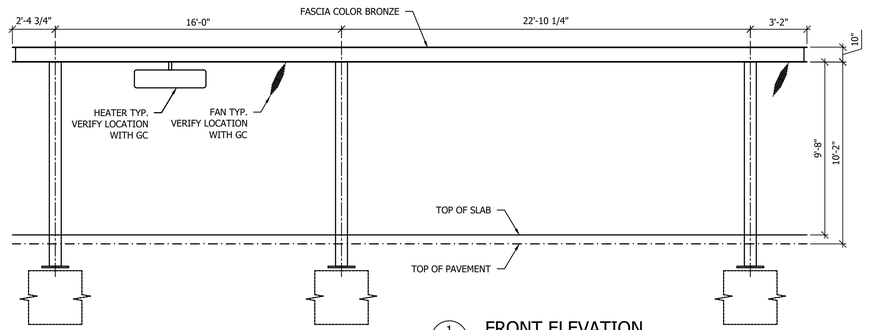


FRAMING PLAN

Scale: 1/4"=1'-0"

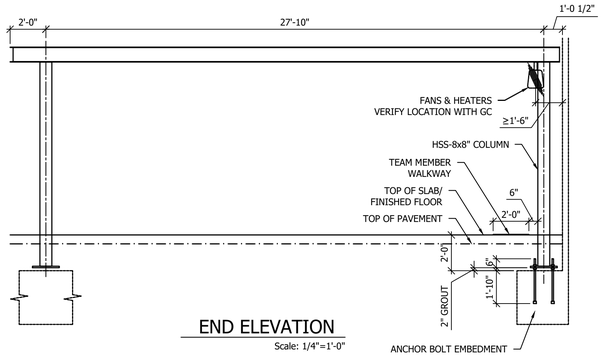


DECK CLAMP DETAIL



1 / CB2 FRONT ELEVATION

Scale: 1/4"=1'-0"



END ELEVATION

Scale: 1/4"=1'-0"

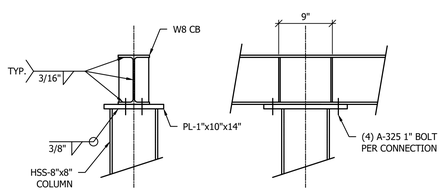
STEEL NOTES
1. DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST AISC SPECIFICATIONS. DESIGN, FABRICATION AND ERECTION OF COLD FORMED STEEL SECTIONS SHALL CONFORM TO THE LATEST AISI SPECIFICATIONS.
2. STRUCTURAL MATERIALS:
WIDE FLANGE SECTIONS - ASTM A992 OR A572 GRADE 50 (Fy = 50 KSI)
ANGLES / CHANNELS - ASTM A36 (Fy = 36 KSI)
HOLLOW STRUCTURAL SECTIONS (TUBE) - ASTM A500 GRADE B (Fy = 46 KSI)
PIPE SECTIONS - ASTM A53, GRADE B (Fy = 35 KSI)
PLATE - ASTM A36 (Fy = 36 KSI)
ROOF DECK - ASTM A653, GRADE 50 (Fy = 50 KSI), GALVANIZED (G60) WITH BAKED ENAMEL FINISH
STEEL OUTRIGGERS - ASTM A653 GR. CS (Fy = 25 KSI), GALVANIZED (G90) PER ASTM 924
STRUCTURAL BOLTS - ASTM A325
ANCHOR BOLTS - ASTM F1554 GR. 36
3. WELDING OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH LATEST ANSI / AWS D1.1
4. FIELD CONNECTIONS SHALL BE BOLTED CONNECTIONS UNLESS SPECIFIED ON DRAWING.
5. ALL STRUCTURAL BOLTED CONNECTIONS SHALL USE ASTM A325 BOLTS. BOLTED JOINTS SHALL BE TIGHTENED TO SNUG TIGHT PER LATEST RCSC SPECIFICATION.
6. STRUCTURAL STEEL SHALL BE SHOP COATED WITH A RED-OXIDE RUST INHIBITIVE PRIMER. FIELD TOUCH-UP, FINISH PAINTING, AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE OWNER (UNLESS OTHERWISE SPECIFIED).
7. DESIGN LOADS PER 2018 INTERNATIONAL BUILDING CODE WITH NJ AMENDMENTS AND LOCAL REQUIREMENTS:

ROOF LIVE LOAD = 20 PSF
FLAT ROOF SNOW LOAD = 21 PSF + DRIFT @ ADJACENT BUILDING
BASED ON GROUND SNOW LOAD= 25 PSF

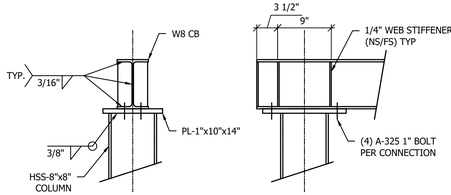
WIND LOADS:
LATERAL = 41.0 PSF (ULTIMATE)
UPLIFT = 18.8 PSF (ULTIMATE)
BASED ON 115 MPH 3 SECOND GUST WIND SPEED AND EXPOSURE 'B' PER ASCE 7-16.
RISK CATEGORY II

SEISMIC LOADS:
SEISMIC RISK CATEGORY II, SITE CLASS "D" ASSUMED, SEISMIC DESIGN CATEGORY "B"
Sds = 0.285g (Ss = 0.177g, Fa = 1.6), Sd1 = 0.092g (S1 = 0.057g, FV = 2.4)
SEISMIC FORCE RESISTING SYSTEM IS INVERTED PENDULUM - CANTILEVERED COLUMN, R = 1.25
Cs = 0.228

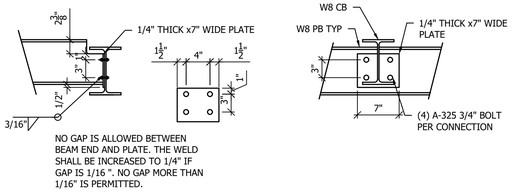
DEAD LOADS:
DECK / GUTTER / LIGHTS - 4.5 PSF
FASCIA - 4.5 PSF (PER DESIGN)
STRUCTURAL STEEL - SELF WT
CONCRETE - 150 PCF



COLUMN / CROSSBEAM CONNECTION TYPE 1

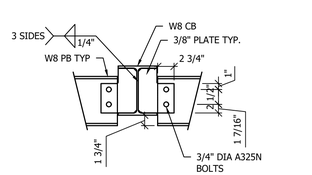


COLUMN / CROSSBEAM CONNECTION TYPE 2



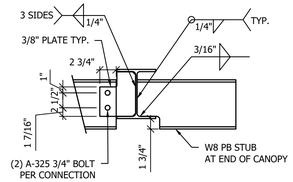
TYP. CONTINUOUS PURLIN CONNECTION

Scale: 1" = 1'-0"



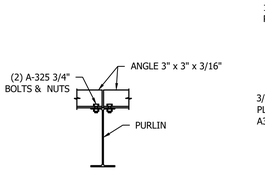
TYP. INNER PURLIN CONNECTION

Scale: 1" = 1'-0"



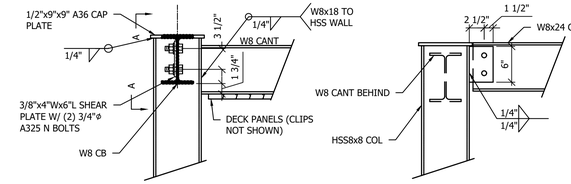
STUB PURLIN CONNECTION

Scale: 1" = 1'-0"



TYP. ANGLE LATERAL BRACING

Scale: 1" = 1'-0"



DET. A - TYP. COLUMN / CB / PB CONNECTION

Scale: 1" = 1'-0"

REV.	DATE	BY	DESCRIPTION
3	8/11/22	MAS	DESIGN NOTES

REVISION HISTORY

08-26-2022

STATE OF NEW JERSEY · JOSHUA J. PAZDA · No. 046381 · LICENSED PROFESSIONAL ENGINEER

EXP 04-30-2024

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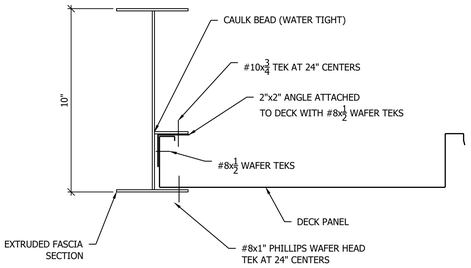
(7) COLUMN CANOPY
OMD CANOPY

SCALE:	DRAWN BY:	CHECKED BY:
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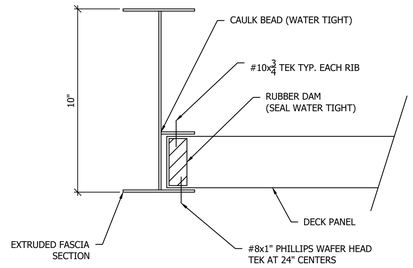
JOB NUMBER: 64591.1

SHEET TITLE: FRAMING PLAN

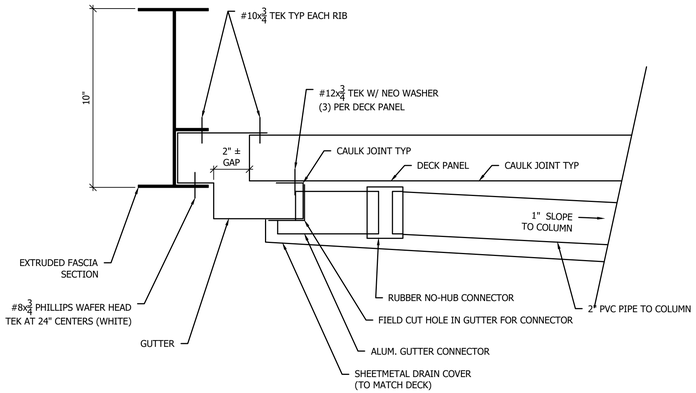
SHEET NUMBER: CB2



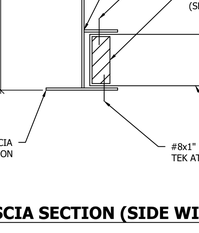
FASCIA SECTION (ENDS)



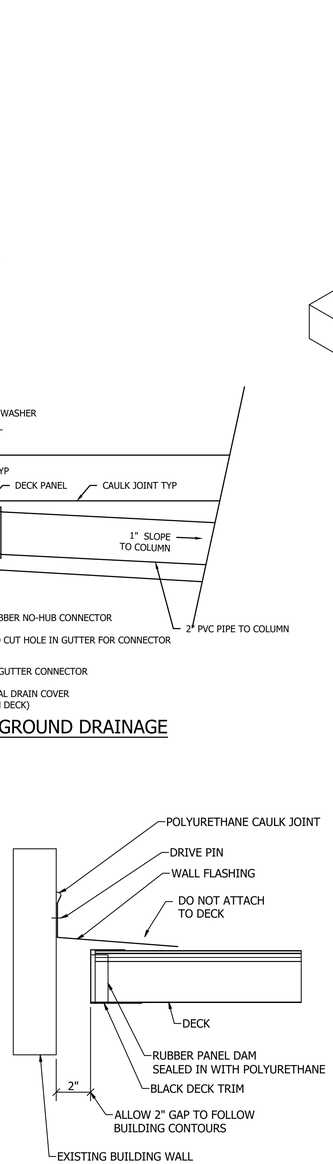
FASCIA SECTION (SIDE WITHOUT GUTTER)

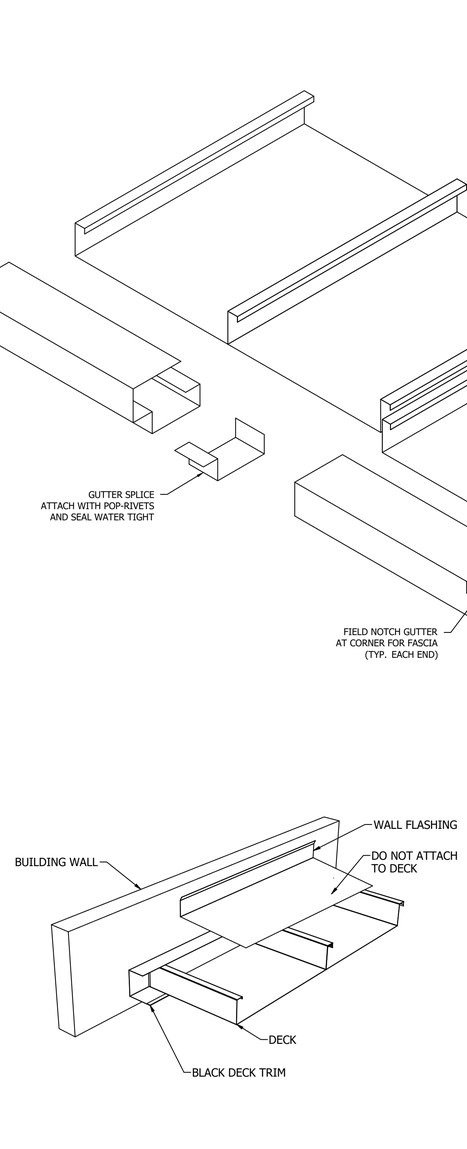


FASCIA / GUTTER SECTION W/ UNDERGROUND DRAINAGE

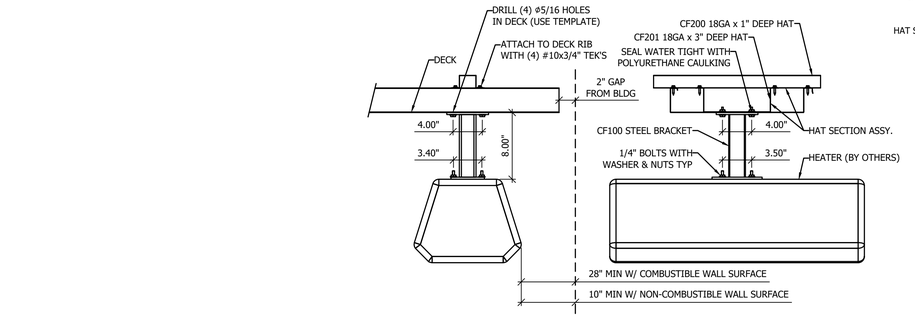


BELOW GRADE DRAINAGE

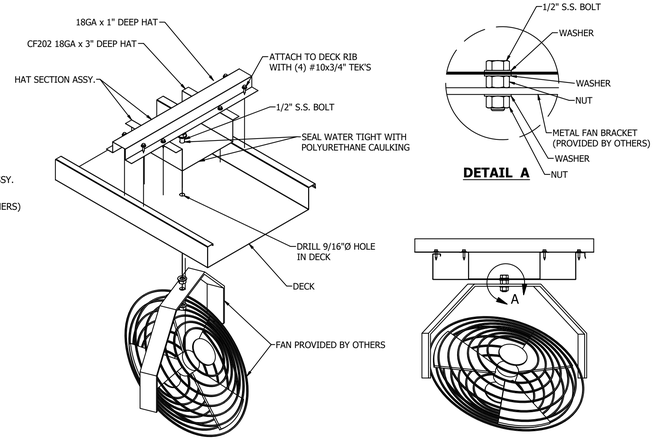




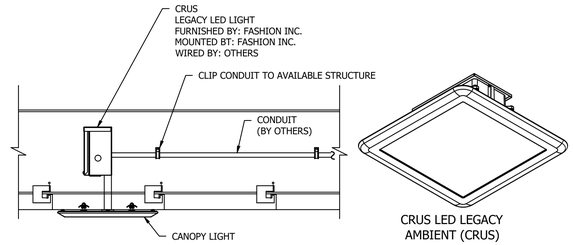
BUILDING FLASHING DETAIL



HEATER BRACKET DETAIL

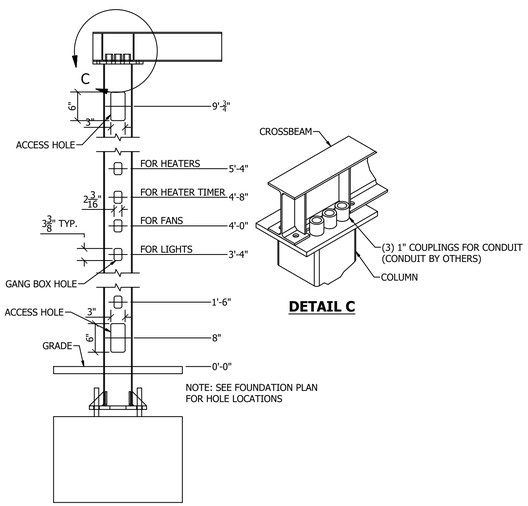


FAN BRACKET DETAIL



CRUS LED LEGACY AMBIENT (CRUS)

CANOPY LIGHT DETAIL



DETAIL C

ACCESS HOLE / GANG BOX HOLE DETAIL

IMAGE RESOURCE GROUP

REV.	DATE	BY	DESCRIPTION
3	8/11/22	MAS	DESIGN NOTES

REVISION HISTORY

08-26-2022

STATE OF NEW JERSEY · JOSHUA PAGEL · No. 046381 · LICENSED PROFESSIONAL ENGINEER

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(7) COLUMN CANOPY
OMD CANOPY

SCALE:	DRAWN BY:	CHECKED BY:
AS SHOWN	MAS	AP

JOB NUMBER: 64591.1

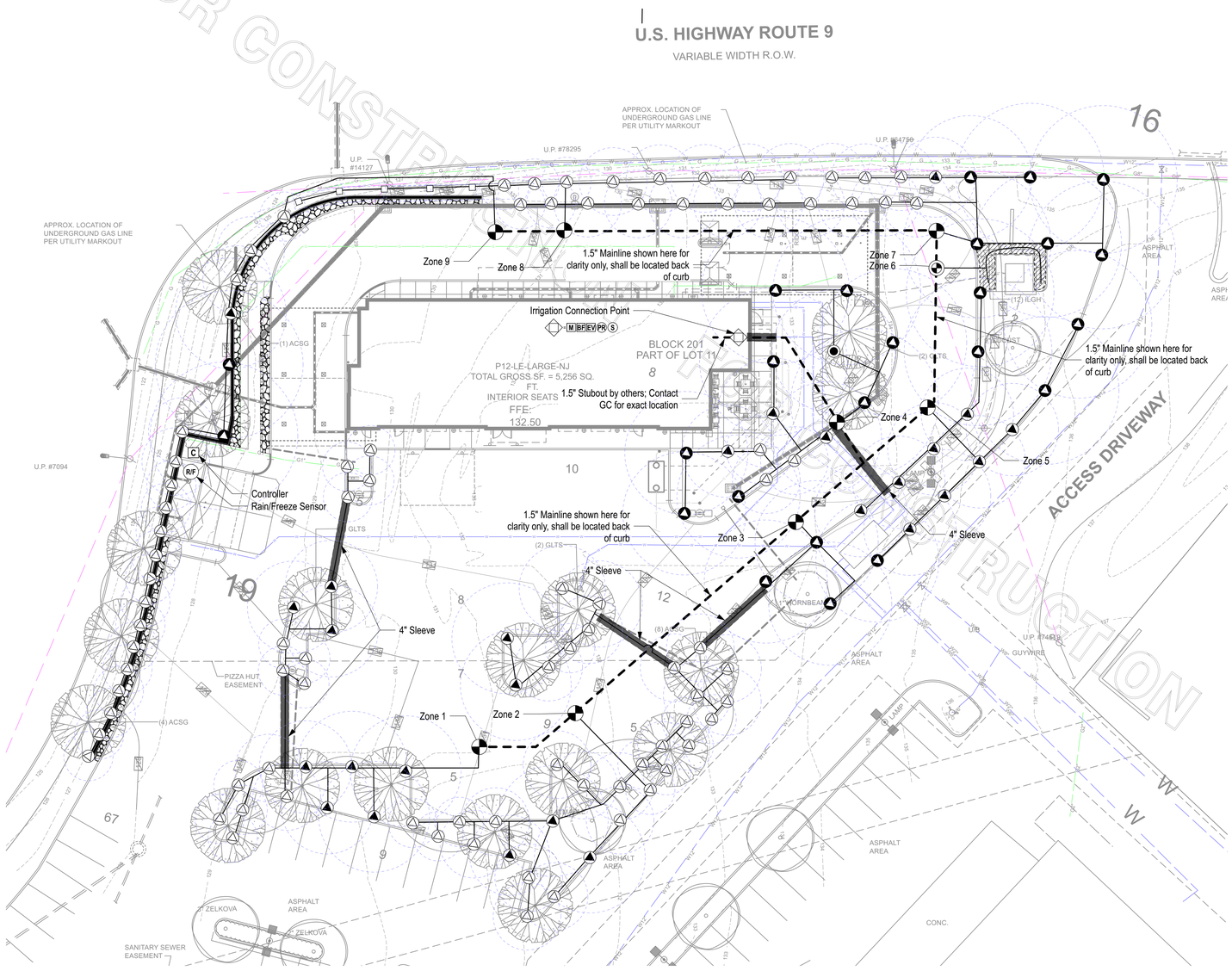
SHEET TITLE: STANDARD DETAILS

SHEET NUMBER: CB3

IRRIGATION ZONES

SMART CONTROLLER

1	14.75	GPM	6	DRIP	
2	13.44	GPM	7	12.56	GPM
3	13.19	GPM	8	12.48	GPM
4	19.32	GPM	9	14.87	GPM
5	15.64	GPM			



0 20 40 FT

NOTE: Any Mainline or Lateral Line within the critical root zone shall be hand dug.

IRRIGATION LEGEND - RAINBIRD PRODUCTS ONLY

M	1" IRRIGATION METER	PROVIDED BY THE GENERAL CONTRACTOR
S	1" MANUAL SHUTOFF VALVE	1 REQUIRED
BF	BACKFLOW PREVENTER	AS REQUIRED BY CITY
PR	1" PRESSURE REGULATOR	AS REQUIRED
EV	1" ELECTRICAL MASTER VALVE	1 REQUIRED
	LANDSCAPE DRIPLINE	RAINBIRD XFD-09-18
	ROTARY SIDE STRIP NOZZLE	RAINBIRD RD1800-S-P45-RVANLCS or (RCS)
	45-270 ADJUSTABLE ARC ROTARY NOZZLE - 8'-14' RADIUS	RAINBIRD RD1800-S-P45-R-VAN14
	45-270 ADJUSTABLE ARC ROTARY NOZZLE - 13'-18' RADIUS	RAINBIRD RD1800-S-P45-R-VAN18
	360 ROTARY NOZZLE - 17'-24' RADIUS	RAINBIRD RD1800-S-P45-R-VAN24-360
	45-270 ADJUSTABLE ARC ROTARY NOZZLE - 17'-24' RADIUS	RAINBIRD RD1800-S-P45-R-VAN24
	1" ELECTRIC VALVE	RAINBIRD 100-PGA
	1" DRIP CONTROL ZONE VALVE	RAINBIRD XCZ-100-PRB-COM
C	AUTOMATIC CONTROLLER	RAINBIRD ESP-ME3 (120V required); expansion modules as needed
R/F	RAIN/FREEZE SENSOR	RAINBIRD WR2-RFC
	1" LATERAL LINE	CLASS 200 PVC IRRIGATION PIPE AND FITTINGS - 1" LATERAL LINES
	1.5" MAINLINE	CLASS 200 PVC IRRIGATION PIPE AND FITTINGS - 1.5" MAINLINE
	IRRIGATION SLEEVE - 4" SCH 40 PVC	4" SCH 40 PVC SLEEVE UNDER PAVEMENT installation of sleeves by contractor in location as shown on plan.

IRRIGATION NOTES

1. Irrigation contractor is responsible for locating and protecting all underground utilities prior to trenching.
2. Pressure regulator required by local code if static water pressure at point of connection for site is greater than 80 psi.
3. Irrigation meter and backflow preventor to be provided by the general contractor.

4. All valves to be located in valve box with cover at grade; Locate box in grass area when possible.
5. Automatic controller to be located in the storage room. Rain/freeze sensor shall be located on the trash enclosure respectively; Rain/freeze Sensor to be located free from obstructions and exposed to the weather.
6. All pipes, automatic valves, backflow preventor, manual valve and meter to be located within property lines. Shown outside on drawing for clarity only.
7. 45 psi required per rotor station, 30 psi required per spray station, 40 psi required per drip station. All spray and rotor bodies to have PRS (In-stem pressure regulation) as indicated in the legend.
8. Pop-up height of spray heads to be as follows: 4" in Turf Zones, 12" in Shrub Zones, and 12" in Seasonal/color beds. Rotor height to be 4". MPR Rotor Nozzle size is indicated on drawing for each rotor.
9. 4" SCH 40 PVC sleeves to be located as shown on drawing. Extend sleeve 18" beyond back of curb or pavement. Sleeves to be located and exposed by the general contractor prior to start of irrigation installation.
10. All 1.5" mainlines (class 200 PVC pipe) to have a minimum of 18" cover.
11. All lateral and sub-main pipe (class 200 PVC pipe) to have a minimum of 12" and a maximum of 18" cover.
12. No rocks, boulders, or other extraneous materials to be used in backfilling trenches.
13. All threaded joints to be coated with Teflon Tape or Liquid Teflon.
14. All lines to be thoroughly flushed before installation of sprinkler heads.
15. Must use products specified on this drawing, unless otherwise approved by the Landscape Architect. Refer to the Irrigation Legend for product specs.

16. Irrigation is to be installed as designed, unless otherwise approved by the Landscape Architect.
17. All pipe, valves, drip, spray heads, rotors, controllers, and sensors are to be installed as per manufacturers specifications. For any RainBird products or installation questions call Donn Mann (520)-904-1146.
18. Irrigation contractor shall provide an Irrigation As-Built drawing to the landscape architect; this drawing shall be overnighted within 24 hours of completion of installation.
19. Irrigation Contractor to perform a walk-thru inspection with the Store Operator of the functioning system prior to opening but no later than one week after opening.

SEE SHEET L-201 FOR IRRIGATION DETAILS
SEE SHEET L-202 FOR IRRIGATION SPECIFICATIONS

FOR CONSTRUCTION
FOR CONSTRUCTION

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WEST POND FSU
320 U.S. 9 N.
Woodbridge, NJ 07095

FSU# 04591

REVISION SCHEDULE

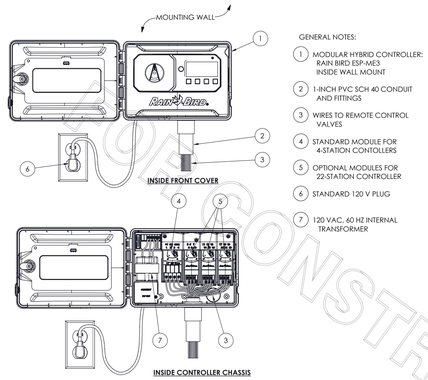
NO.	DATE	DESCRIPTION
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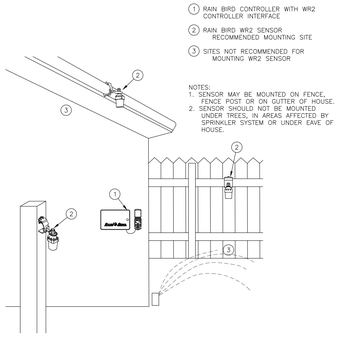
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SHEET
Irrigation Plan

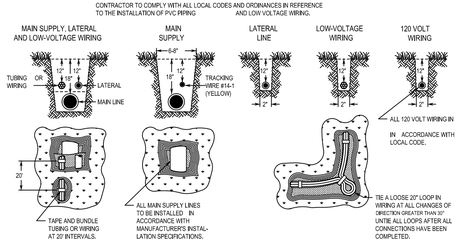
SHEET NUMBER
L-200



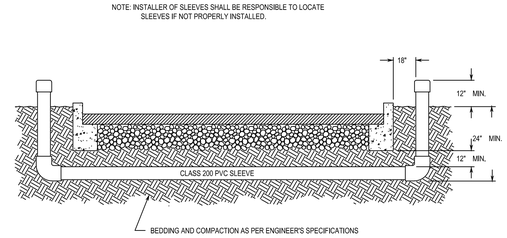
1 IRRIGATION CONTROLLER: ESP-ME3
SCALE: NTS (LOCATE IN STORAGE ROOM)



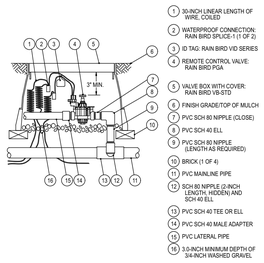
2 WR2 WIRELESS RAIN/FREEZE SENSOR
SCALE: NTS (LOCATE AT DUMPSTER WALL)



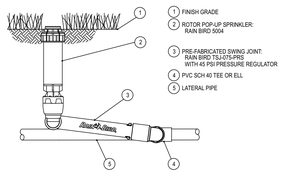
3 IRRIGATION TRENCHING AND PIPE DEPTH
SCALE: NTS



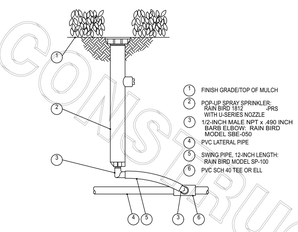
4 IRRIGATION SLEEVING
SCALE: NTS



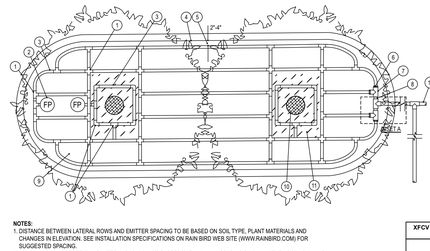
5 IRRIGATION VAVLE: 100-PGA
SCALE: NTS



6 POP-UP ROTOR: 5000 SERIES W/T MPR NOZZLE
SCALE: NTS



7 POP-UP SPRAY: 1800 SERIES
SCALE: NTS

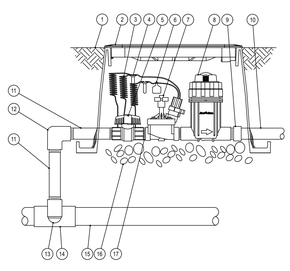


NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEB SITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.
3. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
4. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.
5. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

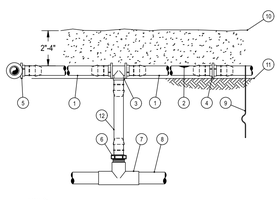
XFCV Dripline Maximum Lateral Lengths (Feet)

Inlet Pressure psi	12" Spacing		18" Spacing	
	Nominal Flow (GPH)		Nominal Flow (GPH)	
	0.6	0.9	0.6	0.9
20	192	136	254	215
30	269	205	402	337
40	350	248	498	416
50	397	281	573	477
60	436	309	637	529

8 DRIP: SYSTEM LAYOUT AND INSTALLATION OVERVIEW
SCALE: NTS

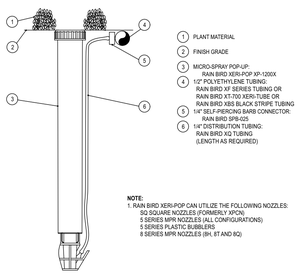


9 DRIP VALVE: XCZ-PRB-100-COM
SCALE: NTS



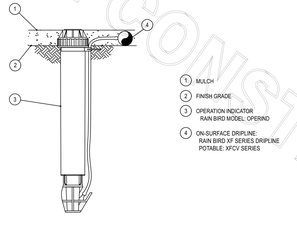
NOTES:
1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.
3. SAVE YOUR HANDS. USE THE RAIN BIRD FITTINS-TOOL XF INSERTION TOOL FOR FITTING ASSEMBLY.

10 DRIP: ON-SURFACE RISER ASSEMBLY
SCALE: NTS



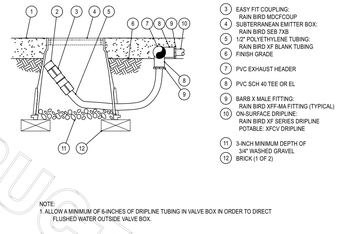
NOTE:
1. RAIN BIRD XERI-POP CAN UTILIZE THE FOLLOWING NOZZLES: SQ SQUARE NOZZLES (FORMERLY XPCN) 5 SERIES MPR NOZZLES (ALL CONFIGURATIONS) 5 SERIES PLASTIC BUBBLERS 8 SERIES MPR NOZZLES (8H, 8T AND 8Q)

11 DRIP: XERI-POP MICRO SPRAY
SCALE: NTS



NOTE:
1. USE XERIMAN TOOL XM-TOOL TO INSERT BARB TRANSFER FITTING DIRECTLY INTO DRIPLINE TUBING.
2. VAN NOZZLE MAY BE SET TO CLOSED, OR IF IT IS DESIRED TO SEE SPRAY FROM THE NOZZLE, SET THE ARC TO 360 PATTERN. THE FLOW FROM THE NOZZLE, 0.3 GPM, SHOULD BE ACCOUNTED FOR IN THE SYSTEM DESIGN.

12 DRIP: OPERATION INDICATOR
SCALE: NTS



NOTE:
1. ALLOW A MINIMUM OF 6-INCHES OF DRIPLINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

13 DRIP: DRIPLINE FLUSH POINT
SCALE: NTS

100% CONSTRUCTION FOR CONSTRUCTION

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FSU# 04591

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1.	2.11.22	For Construction

FOR CONSTRUCTION

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SHEET
Irrigation Details

SHEET NUMBER
L-201

IRRIGATION COMPONENTS AND/OR SYSTEMS

PART 1 – GENERAL

SECTION INCLUDES

Work to be performed under this Section shall consist of furnishing all labor and materials necessary to construct a complete working and tested sprinkler irrigation system as per all drawings and specifications.

REFERENCES

A. ANSI – American National Standards Institute
B. ASIC – American Society of Irrigation Consultants: ASIC Grounding Guideline.
C. ASSE – American Society of Sanitary Engineering: ASSE 1013, 1015: Backflow Preventers, Pressure Reducers.
D. ASTM – American Society of Testing and Materials
E. IA – The Irrigation Association: Main BMP Document.
F. NFPA – National Fire Protection Association: NFPA 70 National Electrical Code.
G. UL – Underwriters Laboratories: UL Wires and Cables.

PERFORMANCE REQUIREMENTS

A. All work to be performed to current standards of SEI and of the local governing municipality.
B. PVC Pipe: Must be stamped with certified NFS.
C. Contractor shall be responsible to obtain all necessary permits and to comply with electrical company requirements.
D. No substitutions of materials are allowed unless approved by Landscape Architect.

QUALITY ASSURANCE

A. Contractor shall have considerable experience and demonstrate ability in the installation of irrigation system(s) of specified type(s) in a neat, orderly, and responsible manner in accordance with recognized standards of workmanship.
B. All work shall be performed in accordance with the best standards of practice relating to the trade.
C. Contractor shall provide an irrigation as-built drawing to the designer responsible for the irrigation plan. **This drawing shall be overnighted to the respective party within 24 hours of installation completion.**

WARRANTY

A. Contractor shall provide a one year warranty that covers all workmanship and labor.
B. Contractor shall provide a five year warranty that covers all materials.

PART 2 - PRODUCTS

PIPE AND FITTINGS

A. Material: PVC
B. Pressure Pipe: Class 200.
C. Lateral Pipe: Class 200, Polyethylene for Northeastern Climate.
D. Fittings: Schedule 40, solvent welded or threaded.
E. Risers: Schedule 80, threaded.
F. Sleeves: Schedule 40, minimum 4".

AUTOMATIC CONTROLLER

A. Irrigation controller specifications include but are not limited to:
   1. The controller shall be of a hybrid type that is microelectronic circuitry capable of fully automatic or manual operation.
   2. All stations shall have the capability of independently obeying or ignoring the weather sensor as well as using or not using the master valve.
   3. The controller shall have the capability of shutting off the system on rainy days.
B. Control zone kit for drip zones with flows from 3 to 15 gpm (11.4 to 56.8 l/m), including control valve (CV) and pressure-regulating filter (PRF).
   1. Control Valve (CV) component specifications include:
      a. Valve body and bonnet constructed of high impact, weather-resistant plastic, stainless steel and other chemical/ultra-violet resistant materials.
      b. One unit diaphragm constructed of durable Buna-N rubber with a clog resistant metering orifice.
      c. Inlet pressure rating of 15 to 150 psi (1.0 to 10.3 bar).
   2. Pressure Regulating Filter (PRF) component specifications include:
      a. Compact "Y" filter body and cap configuration constructed of glass-filled, ultra-violet resistant polypropylene, with 150 psi (10.3 bar) operating pressure rating.
      b. 200 mesh (75 micron) filter screen constructed of stainless steel.
      c. Normally-open pressure regulating device with preset outlet pressure of 40 psi (2.8 bar).
   3. Regulated pressure of 40 psi (2.8 bar).
C. Low flow control zone kit for drip zones with flows from 0.2 to 5.0 gpm (0.8 to 18.9 l/m), including Low Flow Valve (LFV) and Pressure-Regulating Filter (PRF).
   1. Low flow valve (LFV) component specifications include:
      a. Valve body and bonnet constructed of high impact, weather-resistant plastic, stainless steel and other chemical/ultra-violet resistant materials.
      b. One unit diaphragm constructed of durable Buna-N rubber material with a clog resistant metering orifice.
      c. Inlet pressure rating of 15 to 150 psi (1.0 to 10.3 bar).
   2. Pressure regulating filter (PRF) component specifications include:
      a. Compact "Y" filter body and cap configuration constructed of glass-filled, ultra-violet resistant polypropylene, with 150 psi (10.3 bar) operating pressure rating.
      b. 200 mesh (75 micron) filter screen constructed of stainless steel.
      c. Normally-open pressure regulating device with preset outlet pressure of 30 psi (2.1 bar).
   3. Regulated pressure of 30 psi (2.1 bar).

POP-UP SPRINKLERS

A. Irrigation spray body for small turf areas (2.5-24 feet (0.8-7.3m) with a 30 psi (2.0 bar) pressure regulating device specifications include but are not limited to:
   1. Parts and components to withstand harsh operating conditions using chemically treated recycled water (reclaimed/non-potable), dirty water containing grit, debris, and other particulates, high operating pressures common in commercial irrigation and resistant to ultra-violet light.
   2. Pressure-activated, co-molded soft elastomer wiper seal composed of three wipers and a base seal to ensure a positive seal without excess "flow-by" which enables more heads to be installed on the same valve.
   3. Recessed debris pockets located in the base of the spray body to prevent recirculation of harmful debris during operation.
   4. Shall include a check valve to prevent low head drainage of up to 14 feet (4.3 m); 6 psi (0.4 bar).
   5. Shall include technology built into the stem to prevent water loss and alert maintenance when a spray nozzle is removed.
   6. Flow by rating of 0 at 15 psi (1.0 bar) or greater, 0.5 gpm (0.1 m3/h; 0.03 l/s) otherwise.
   7. Shall include ½" (15/21) NPT female threaded bottom inlet.
   8. The spray body, stem, nozzle, and screen shall be constructed of heavy-duty and ultra-violet resistant plastic.
B. Irrigation spray body for small turf areas (2.5-24 feet (0.8-7.3m) with a 45 psi (3.1 bar) pressure regulating device specifications include but are not limited to:
   1. Parts and components to withstand harsh operating conditions using chemically treated recycled water (reclaimed/non-potable), dirty water containing grit, debris, and other particulates, high operating pressures common in commercial irrigation and resistant to ultra-violet light.
   2. Pressure-activated, co-molded soft elastomer wiper seal composed of three wipers and a base seal to ensure a positive seal without excess "flow-by" which enables more heads to be installed on the same valve.
   3. Recessed debris pockets located in the base of the spray body to prevent recirculation of harmful debris during operation.
   4. Shall include a check valve to prevent low head drainage of up to 14 feet (4.3 m); 6 psi (0.4 bar).
   5. Shall include technology built into the stem to prevent water loss and alert maintenance when a spray nozzle is removed.
   6. Flow by rating of 0 at 15 psi (1.0 bar) or greater, 0.5 gpm (0.1 m3/h; 0.03 l/s) otherwise.
   7. Shall include ½" (15/21) NPT female threaded bottom inlet.
   8. The spray body, stem, nozzle, and screen shall be constructed of heavy-duty and ultra-violet resistant plastic.

SPRAY NOZZLES

A. Fixed or variable arc matched precipitation rate spray nozzle for small turf areas (3-15 feet (.91-4.6 m), maximum 30 psi (2.1 bar) specifications include but are not limited to:
   1. Shall be constructed of ultra-violet resistant plastic.
   2. Shall contain a stainless steel flow and radius adjustment screw allowing up to 25% radius reduction.
   3. Nozzle shall have a precipitation rate that is matched across sets and patterns of spray nozzles up to 15 feet (4.6 m).
   4. Shall include color coding marking on top of nozzle for easy identification of spray radius.
B. Dual orifice fixed arc nozzle for small turf areas (5-15 feet (1.7-4.6 m), maximum 30 psi (2.1 bar) specifications include but are not limited to:
   1. Shall be constructed of ultra-violet resistant plastic.
   2. Shall contain a stainless steel flow and radius adjustment screw allowing up to 25% radius reduction.
   3. The nozzle shall have dual orifices for both in-close watering and standard pattern watering with a matched precipitation rate between sets and matched flow and with other matched precipitation rate fixed spray nozzles up to 15 feet (4.6 m).
   4. Shall include color coding marking on top of nozzle for easy identification of spray radius.
C. Multi stream rotating nozzle for small turf areas (8-24 feet (2.4-7.4m), maximum 55 psi (3.8 bar) specifications include but are not limited to:
   1. Shall be constructed of ultra-violet resistant plastic.
   2. Shall contain a stainless steel radius adjustment screw allowing reduction to 13 feet (4.0 m).
   3. Shall have a matched precipitation rate of 0.60 in/hr (15.2 mm/hr).
   4. Shall have a color coded radius reduction plug to allow for easy identification of fixed arc pattern.

ROTOR HEADS

A. Pop-up rotor sprinkler for medium turf areas (25-47 feet (7.6-14.3 m), maximum 75 psi (5.2 bar) specifications include but are not limited to:
   1. Shall have adjustable arc rotation of 40 to 360 degrees (0.7 to 6.3 rad) and reversing full circle rotation.
   2. Shall have a flow shut-off device that is integrated into the flow path of the sprinkler.
   3. Shall have a pressure-activated, multi-function wiper seal that protects internals from debris and assures positive pop-up and retraction.
   4. Shall contain additional o-rings and seals for extra protection in "gritty" water.
   5. Operating precipitation rate of 0.20 to 1.01 inches per hour (5 to 26 mm/h).
   6. Operating flow rate of 0.73 to 8.31 gpm (0.17 to 1.85 m3/h).
   7. The body, stem, nozzle, and screen shall be constructed of heavy-duty and ultra-violet resistant plastic.
   8. Shall include a 45 psi (3.1 bar) pressure regulating device to prevent high pressure misting to the nozzle stream.
   9. Shall include an internal check valve to prevent low head drainage of up to 7 feet (2.1 m) to prevent puddling, run-off and erosion.
   10. Shall include a set of twelve interchangeable nozzles, 8 nozzles with 25 degree (0.4 rad) trajectory and 4 low-angle nozzles with 10 degree (0.2 rad) trajectory.

FLEXIBLE SWING PIPE

A. Swing pipe specifications include but are not limited to:
   1. Swing pipe shall be flexible black tubing constructed of linear low density polyethylene material with a wall thickness of 0.098" (0.3 cm) with a nominal inside diameter of 0.49" (1.2 cm).
   2. Pipe shall be capable of a flow up to 8 gpm (0.5 l/s).

DRIPLINE

A. Distribution tubing specifications include but are not limited to:
   1. The blank tubing shall be manufactured from flexible polyethylene material with a wall thickness of 0.049" (1.2 mm), outside diameter of 0.634" (16.1 mm), and inside diameter of 0.536" (13.6 mm).
   2. The tubing shall be dual-layered (brown over black).

INLINE EMITTER DRIPLINE

A. Sub-surface inline emitter tubing specifications include but are not limited to:
   1. The tubing shall be manufactured from flexible polyethylene material with wall thickness of 0.049" (1.2 mm), outside diameter of 0.634" (16 mm), and inside diameter of 0.536" (13.6 mm).
   2. The tubing shall have factory installed pressure-compensating, inline emitters with a copper shield device installed every 12, 18, or 24 inches (30.5, 45.7, 61 cm) as indicated on construction drawings.
   3. Operating pressure range of 8.5 to 60 psi (0.6 to 4.1 bar).
   4. Operating emitter flow rates of 0.6 and 0.9 gph (2.3 l/hr and 3.5 l/hr).

DISTRIBUTION TUBING

A. ¼" distribution tubing for emitters and other devices specifications include but are not limited to:
   1. The blank tubing shall be extruded from ultra-violet resistant polyethylene resin materials with a wall thickness of 0.04" (1 mm), outside diameter of 0.250" (6.3 mm), and inside diameter of 0.170" (4.3 mm).
   2. Operating pressure range from 0 to 60 psi (0 to 4.1 bar).

EMITTERS

A. Point source emission device specifications include but are not limited to:
   1. The emitter shall be constructed of ultra-violet resistant acetyl materials.
   2. Shall have a pressure-compensating design to deliver a uniform flow throughout a pressure range of 15 to 50 psi (1.0 to 3.4 bar).
   3. Flow rates that range from 0.5 to 2 gph (1.89 to 7.57 l/h) at a pressure range of 15 to 50 psi (1.0 to 3.4 bar).

VALVE BOX

A. Valve boxes specifications include but are not limited to:
   1. Shall be made of structural foam HPDE resin that is resistant to ultra-violet light, weather, moisture and chemical action of soils.
   2. Lids shall be clearly marked with the words "IRRIGATION CONTROL VALVE" molded onto the top.
   3. Lid colors are available in black, green and purple designating non-potable water use.

PART 3 - EXECUTION

EXCAVATION

A. Stake pipe and equipment layout for Owner's review and approval. Review does not relieve installer from coverage problems due to improper placement after staking.
B. Excavate trenches for irrigation system pipe to provide minimum cover per plans and details.
C. Barricade trenches that are left open overnight.

INSTALLATION

A. General: Plans are diagrammatic. Proceed with installation in accordance with the following:
   1. Install stop and waste valves, backflow preventers, and other equipment required by local authorities according to laws and regulations in order to make system complete.
      a. Coordinate with the General Contractor the responsible for installing the backflow preventer and other irrigation items at the connection point.
      b. Coordinate with the General Contractor the for exact location of the irrigation connection point.
   2. Thoroughly flush main lines before installing automatic control valves, and laterals before installing sprinklers. Flush supply lines thoroughly before installing backflow preventers or other regulating devices.

B. Piping: Assemble all mainline and lateral lines in accordance with manufacturer's recommendations with no cul-de-sacs. Assure positive drainage.
C. Sleeves: General Contractor shall install sleeves before concrete/paving work.
   1. Sleeves should be a minimum two times the diameter of the pipe passing through them.
   2. General Contractor shall stub-up and flag sleeve locations for the Irrigation Contractors ease of locating.
   3. Sleeve locations shall be approximate to that shown on the Irrigation Plan.
D. Control Valves:
   1. Install one valve per valve box and provide 12 inches of expansion loop slack wire at all connections inside valve box.
E. Manual Drains:
   1. Install per manufacturer's recommendations on upstream and downstream side of backflow preventers and at lowest point along main pressure pipe.

F. Quick-Coupling Valves:
   1. Install using 1 inch PVC nipples and schedule 40 ells as detailed. Location as indicated on plans.
G. Backflow Preventer:
   1. Install assembly complete for irrigation system with 2 drain valves and 2 shut off valves per detail, local laws and regulations, and per manufacturer's specifications.
   2. Install assemblies with drain valves in below grade installations. Provide open box floor with gravel drain sump.
H. Valve Boxes
   1. Install over all remote control valves, manual control valves, zone shutoff valves, gate valves, or globe valves. Size to provide adequate room for maintenance.
   2. Install boxes on level subgrade with proper drainage so that top of boxes are flush with finish grade material (sod, mulch, rock, etc.). Place parallel or perpendicular to adjacent curbs, sidewalks, or driveways.
   3. Place washed gravel aggregate in sump as shown on details.
I. Automatic Controller
   1. Properly ground controller per local laws and regulations. Make all control wire connections to automatic controller. Coordinate controller installation with other electrical work.
   2. Connect remote control valves to controller in numerical sequence as shown on Plans.

J. Wire and Electrical Work
   1. Use electrical control and ground wire suitable for sprinkler control cable.
   2. Provide 120-volt power connection (by others) to automatic controller to conform to local codes, ordinances and authorities having jurisdiction.
   3. Low Voltage Wiring:
      a. Bury control wiring between controller and electric valves in pressure supply line trenches, strung as close as possible to main pipe lines with such wires to be consistently located below and to one side of the pipe, or in separate trenches.
      b. Bundle all 24-volt wires at 10-foot intervals and lay with pressure supply line pipe to one side of trench.
      c. Install control wire for each control valve.
      d. Run 2 spare #14-1 wires from controller pedestal or electric control valve on each and every leg of mainline.
K. Sprinkler Heads, Emitters, Rotators, and Rotors
   1. Flush circuit piping with full head of water and install sprinklers after hydrostatic text is completed.
   2. Adjust nozzles to allow for adequate coverage and to minimize overspray onto walks, roads, driveways, and buildings.
   3. Stake emitter tubing with 1/4" Rainbird® TS-025 tubing stakes.
   4. Adjust heads to be plumb and flush with finish grades, even with top of soil level or top of material level after completion of grading, seeding, sodding, and rolling of grass.
L. Drip Tubing
   1. Install all drip tubing in locations shown on the Irrigation Plan. To be laid out and installed per the irrigation drip details (sheet L-2.1).
   2. Install flush caps as indicated on details.
   3. Install drip indicator on all drip zones.
M. Thrust Blocks and/or Joint Restraints
   1. Install on pipe sized 2" or larger wherever the main pipe line:
      a. Changes any direction at tees, angles, and crosses vertical and horizontal.
      b. Changes at reducers.
      c. Stops at a dead-end.
      d. Valves at which thrust develops when closed.

BACKFILLING

A. Do not begin backfilling operations until system tests and approvals have been completed.
B. Bed all pipe a minimum of 2 inches. Backfill to 6 inches above pipe with soil free of rocks over 1-inch diameter, debris, or organic matter. Backfill remainder of trench with soil of like quality to adjacent areas. Haul away all material not suitable for backfill.
C. Compact backfill in 6-inch lifts thoroughly to prevent settling damage to grades or plant material. Leave trenches slightly mounded to allow for settlement after backfilling is completed. Low areas and damage caused by settling will be repaired by Contractor at no additional cost to the Project or Owner.
D. Prevent soil, rocks, or debris from entering pipes or sleeves.

FLUSHING AND TESTING

A. Flushing: After piping, risers, and valves are in place and connected, but prior to installation of sprinkler heads, thoroughly flush piping system under full head of water pressure from dead end fittings. Maintain flushing for 5 minutes through furthermost valves. Cap risers after flushing.

INSPECTION

A. Arrange for Owner's presence 48 hours in advance of inspection walk-through.
B. Examine areas and conditions under which work of this section is to be performed and ensure a complete and operating installation prior to scheduling a walk-through.
C. Operate each zone in its entirety for Owner at time of walk-through and open all valve boxes as directed.
D. Expose all drip emitters under operations for observation by Owner to demonstrate they are performing and installed as designed prior to placing of mulch material. Schedule separate walk-through as necessary.
E. As necessary Owner will generate a list of items to be corrected prior to Final Acceptance.

RESTORATION AND CLEANING

A. Flush dirt and debris from piping before installing sprinklers and other devices.
B. Adjust automatic control valves to provide flow rate of rated operating pressure required for each sprinkler circuit.
C. Restore all damaged areas to original condition unless otherwise shown on plans at no additional cost to the Project or Owner.

FOR CONSTRUCTION
FOR CONSTRUCTION
FOR CONSTRUCTION

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia 30349-2998

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CHICK-FIL-A
WEST POND FSU
320 U.S. 9 N.
Woodbridge, NJ 07095

FSU# 04591

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1.	2.11.22	For Construction

FOR CONSTRUCTION

MLD PROJECT #	2022029
PRINTED FOR	FOR CONSTRUCTION
DATE	2.11.22
DRAWN BY	MB

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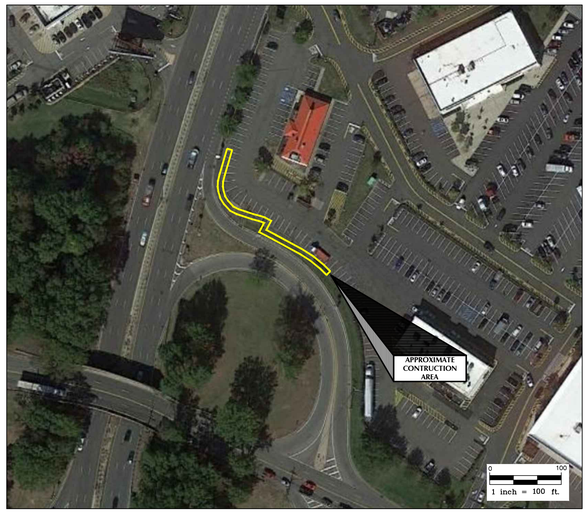
SHEET
Irrigation Specifications

SHEET NUMBER
L-202

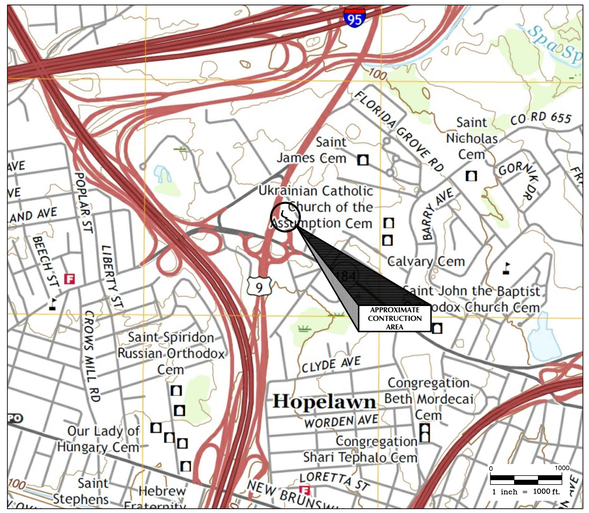
RETAINING WALL DESIGN

FOR

PROPOSED CHICK-FIL-A RESTAURANT 04591
320 U.S. HIGHWAY 9N
MAP 22, BLOCK 201, PORTION OF LOT 11
WOODBRIDGE TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY



AERIAL SITE MAP



TOPOGRAPHIC SITE MAP

SHEET INDEX	
NUMBER	DESCRIPTION
1	COVER SHEET
2	NOTES
3	PLAN
4	ELEVATIONS
5	DETAILS

WHITESTONE ASSOCIATES, INC.
Environmental & Geotechnical Engineers & Consultants
16 OLD FORGE ROAD, SUITE A, ROCKY HILL, CT 06067
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REVISIONS:

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JOB NO.: GM1916880.001
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RETAINING WALL DESIGN
PROPOSED CHICK-FIL-A RESTAURANT 04591
320 U.S. HIGHWAY 9N
MAP 22, BLOCK 201, PORTION OF LOT 11
WOODBRIDGE TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY

FOR

CHICK-FIL-A, INC.
5200 BUFFINGTON ROAD
ATLANTA, GEORGIA 30426

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RYAN R. ROY, P.E.
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. GE47926

SHEET TITLE:

COVER

SHEET NUMBER:

1 OF 4

REVISIONS - 0

GENERAL NOTES AND DESIGN PARAMETERS

SECTION 1: GENERAL

1.1 SCOPE OF WORK

A. FURNISH ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS REQUIRED TO INSTALL A GEOGRID REINFORCED SEGMENTAL RETAINING WALL (SRW) WITH MAGNUMSTONE™ UNITS AS SPECIFIED IN THE CONSTRUCTION DRAWINGS.

SECTION 2: MATERIALS

2.1 DEFINITIONS

A. SEGMENTAL CONCRETE BLOCK UNITS - MAGNUMSTONE, OR APPROVED EQUIVALENT, BLOCK UNITS MADE FROM PORTLAND CEMENT, WATER, AND MINERAL AGGREGATES.

B. CAP UNIT - A MAGNUM STONE, OR APPROVED EQUIVALENT, TOP BLOCK UNIT.

C. WALL LEVELING PAD - A LEVEL MINIMUM 6-INCH THICK LAYEROF CRUSHED STONE UPON WHICH THE FIRST COURSE OF SEGMENTAL CONCRETE FACING UNITS ARE PLACED.

D. WALL DRAINAGE FILL - CRUSHED STONE IMMEDIATELY BEHIND BLOCK UNITS.

E. IMPERVIOUS TOPSOIL - A LOW PERMEABLE TOPSOIL INTENDED TO FORM THE LANDSCAPED SLOPE AT THE TOP OF THE WALL.

F. IMPERMEABLE BACKFILL - A LOW PERMEABLE SOIL INTENDED TO HYDRAULICALLY CUT OFF THE WALL DRAINAGE FILL FROM THE WALL LEVELING PAD.

G. REINFORCED BACKFILL - A WELL-GRADED AND WELL-DRAINED SOIL FOR USED WITHIN AREAS BEHIND WALL CONTAINING GEOGRID.

H. GEOTEXTILE - A SPUN-BOUND NON-WOVEN ENGINEERING FABRIC INTENDED WITH HIGH FILTRATION AND PERMEABILITY CHARACTERISTICS, USED AS A SEPARATION FABRIC.

I. GEOGRID - A GEOSYNTHETIC MATERIAL USED TO REINFORCE SOILS

J. WALL DRAIN - A PERFORATED PIPE PROVIDED FOR INTERNAL DRAINAGE BEHIND THE RETAINING WALL.

K. GEOTECHNICAL ENGINEER - WHITESTONE ASSOCIATES, INC.

2.2 GEOTEXTILES

A. NONWOVEN GEOTEXTILE SEPARATION FABRIC SHALL BE MIRAFI 140N OR EQUIVALENT.

B. WHEN PLACING ADJACENT GEOTEXTILES, GEOTEXTILES SHALL HAVE A MINIMUM 12-INCH LAP.

2.3 GEOGRID

GEOGRID SHALL BE STRATAGRID SG200, OR APPROVED EQUIVALENT.

2.4 SEGMENTAL CONCRETE BLOCK UNITS

A. CONCRETE UNITS SHALL BE MAGNUMSTONE™ UNITS AS MANUFACTURED BY LICENSED PRODUCER IN ACCORDANCE WITH NCMA, ASTM AND/OR AASHTO STANDARDS AND CONFORM TO THE NPCA QUALITY CONTROL MANUAL FOR PRECAST CONCRETE PLANTS OR PER PROJECT ENGINEER SPECIFICATIONS.

B. MAGNUMSTONE™ UNITS SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE OF EQUAL TO 4,000 PSI (28 MPA) (OR GREATER IF SPECIFIED) AND A MAXIMUM ABSORPTION OF 5 PCF (OR LESS IF SPECIFIED) (ASTM C 140). (SUGGESTED AIR CONTENT BETWEEN 5 AND 7%)

C. COLOR FOR THE MAGNUMSTONE™ UNITS SHALL BE DETERMINED BY THE OWNER.

D. ASTM C 1262 SHALL BE STANDARD FOR AREAS SUBJECT TO MANY FREEZE-THAW CYCLES.

E. THE MAXIMUM WATER ABSORPTION SHALL BE LESS THAN 5%. A WATER-CEMENT RATIO OF 0.45 OR LESS IS SUGGESTED.

F. THE HEIGHT SHALL NOT VARY MORE THAN ±3/16TH OF AN INCH (5 MM) FOR EVERY 4 FEET (1.2 M); LENGTH SHALL NOT VARY MORE THAN ±1/2" (13 MM) PER UNIT; AND DEPTH SHALL NOT VARY MORE THAN ±1/4" (6 MM) PER UNIT. ALL OTHER SPECIFICATIONS MUST MEET ASTM C 1372.

G. THE MAGNUMSTONE™ UNITS SHALL BE SOUND AND FREE OF CRACKS, CHIPS OR OTHER DEFECTS THAT MAY PREVENT THE CONTRACTOR FROM PROPERLY INSTALLING THE WALL UNITS OR REDUCE THE LONG-TERM STRENGTH OF THE WALL STRUCTURE.

2.5 WALL LEVELING PAD

A. WALL LEVELING PAD SHALL CONSIST OF CLEAN, UNIFORM, 3/4-INCH CRUSHED STONE.

2.6 REINFORCED BACKFILL

A. REINFORCED BACKFILL SHALL CONSIST OF A WELL-GRADED GRANULAR SOIL WITH A MAXIMUM PARTICLE SIZE OF 2 INCHES AND LESS THAN 10 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.

B. ALL BACKFILL MATERIALS, WHETHER ON-SITE OR IMPORTED, SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.

C. SAMPLES OF ALL PROPOSED BACKFILL MATERIALS, WHETHER ON-SITE OR IMPORTED, SHALL BE SUBMITTED TO THE GEOTECHNICAL ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

2.7 WALL DRAINAGE FILL

A. WALL DRAINAGE FILL SHALL CONSIST OF CLEAN, UNIFORM, 3/4-INCH CRUSHED STONE.

2.8 WALL DRAIN

A. WALL DRAIN SHALL BE 4-INCH DIAMETER MINIMUM SCHEDULE-40 PERFORATED PVC ENCAPSULATED IN ¾-INCH STONE WRAPPED IN A GEOTEXTILE SEPARATION FABRIC, AS SHOWN ON DETAIL.

B. WALL DRAIN SHALL BE PITCHED FOR POSITIVE WATER FLOW TO OUTLET LOCATION.

2.10 IMPERMEABLE BACKFILL

A. IMPERMEABLE BACKFILL SHALL CONSIST OF SOIL BACKFILL WITH A MAXIMUM PARTICLE SIZE OF 1 INCH AND AT LEAST 30 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.

2.11 IMPERVIOUS TOPSOIL

A. TOPSOIL MEETING THE SPECIFICATIONS OF IMPERMEABLE BACKFILL (SEE SECTION 2.9.)

2.12 DELIVERY, STORAGE, AND HANDLING

A. THE CONTRACTOR SHALL INSPECT ALL MATERIALS DELIVERED TO THE SITE TO ENSURE PROPER TYPE AND GRADE OF MATERIALS HAVE BEEN RECEIVED AS PER THE PROJECT SPECIFICATIONS.

B. THE CONTRACTOR SHALL ENSURE PROPER STORAGE, HANDLING, AND PROTECTION FROM DAMAGE OF THE MATERIALS. DAMAGED MATERIALS SHALL NOT BE USED IN THE CONSTRUCTION OF THE SEGMENTAL RETAINING WALL.

C. THE CONTRACTOR SHALL PREVENT EXCESSIVE MUD, WET CONCRETE, OR MATERIALS THAT MAY STAIN OR ADHERE FROM COMING IN CONTACT WITH THE WALL MATERIALS.

D. GEOSYNTHETICS SHALL BE STORED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

E. GEOSYNTHETICS SHALL BE PROTECTED FROM THE WEATHER AND ANY OTHER CONDITIONS THAT COULD DAMAGE THE MATERIAL.

SECTION 3: EXECUTION

3.1 CONSTRUCTION

A. ALL EXCAVATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH OSHA STANDARDS.

B. EXCAVATIONS SHALL BE MADE IN A MANNER THAT WILL NOT DISTURB THE EXISTING OPERATION AT THE SITE OR ACCESS TO THE SCALE. CONTRACTOR SHALL PROVIDE

PROTECTION AND CONSTRUCT THE WALLS IN SUCH A MANNER TO MAINTAIN THE INTEGRITY OF EXISTING IMPROVEMENTS DURING CONSTRUCTION.

C. IN-SITU MATERIALS EXCAVATED FROM THE LOCATION OF THE RETAINING WALL SHALL BE STOCKPILED ON-SITE AT LOCATIONS DESIGNATED BY THE OWNER AND IN LOCATIONS THAT WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK. STOCKPILE MUST BE AT LEAST TWO TIMES THE WALL HEIGHT AWAY FROM THE FACE OF THE WALL.

D. REMOVAL OF SECTIONS OF EXISTING PAVEMENT AND SOME ONSITE SOILS WILL BE REQUIRED TO ACCOMMODATE GEOGRID INSTALLATION.

E. THE UPPER PORTION OF THE EXISTING RETAINING WALL WILL NEED TO BE REMOVED SUCH THAT ANY REMAINING PORTIONS OF THE EXISTING RETAINING WALL ARE A MINIMUM OF 12 INCHES BELOW FINISHED GRADE.

3.2 SUBGRADE PREPARATION

D. SUBGRADE SHALL BE EXCAVATED AS REQUIRED FOR PLACEMENT OF THE WALL LEVELING PAD AND GEOGRID.

E. WALL LEVELING PAD TO BE PLACED OVER SUITABLE SOIL, AS NOTED IN THE GEOTECHNICAL REPORT.

F. SUBGRADE SHALL BE REVIEWED BY WHITESTONE TO CONFIRM THAT THE ACTUAL FOUNDATION CONDITIONS MEET OR EXCEED ASSUMED DESIGN ASSUMPTIONS.

G. PROOFCOMPACTION OF SOIL SUBGRADE SHALL BE COMPLETED PRIOR TO PLACEMENT OF LEVELING PAD AND WALL BACKFILL.

H. WALL LEVELING PAD MATERIALS SHALL BE PLACED AS SHOWN ON THE PLANS TO A MINIMUM DEPTH OF 6 INCHES. SEAT WALL LEVELING PAD MATERIAL WITH MULTIPLE PASSES OF A VIBRATORY COMPACTOR.

I. THE WALL LEVELING PAD SHALL EXTEND LATERALLY AT LEAST A DISTANCE OF 6 INCHES FROM THE TOE AND HEEL OF THE LOWERMOST BLOCK UNIT. WALL LEVELING PAD MATERIALS SHALL BE PLACED IN A MANNER TO PROVIDE A HARD SURFACE ON WHICH TO PLACE THE FIRST COURSE OF BLOCK UNITS AND TO ENSURE COMPLETE CONTACT OF RETAINING WALL UNITS WITH THE BASE.

THE BASE LEVELING PAD SHALL BE LEVEL HORIZONTALLY AND PITCHED FROM BACK TO FRONT 1/2-INCH OVER 2'-0".

3.3 UNIT INSTALLATION

A. THE FIRST COURSE OF MAGNUMSTONE™ UNITS SHALL BE CAREFULLY PLACED ON WALL LEVELING PAD.

B. THE FIRST ROW OF UNITS SHALL BE LEVEL FROM UNIT TO UNIT AND PITCHED FROM BACK TO FRONT 1/2-INCH OVER 2'-0".

C. A STRING LINE CAN BE USED TO ALIGN A STRAIGHT WALL. PVC FLEX PIPES CAN BE USED TO ESTABLISH SMOOTH CONVEX OR CONCAVE CURVED WALLS.

D. THE SMOOTH BACK OF THE UNITS SHALL BE USED FOR ALIGNMENT AND MEASURING TO ENSURE SMOOTH CURVES AND STRAIGHT WALLS.

E. THE SECOND COURSE OF UNITS SHALL HAVE THE CONCRETE CONNECTING LUGS IN THE UNIT VOIDS OF THE FIRST COURSE BELOW, AND PULLED FORWARD RESTING THE LUGS AGAINST THE FRONT EDGE OF THE TWO LOWER UNIT VOIDS.

F. ALL UNITS SHALL BE LAID SNUGLY TOGETHER AND PARALLEL TO THE STRAIGHT OR CURVED LINES.

G. THE MAGNUMSTONE™ UNITS SHALL BE SWEPT CLEAN OF ALL DIRT OR ROCKS BEFORE INSTALLING THE NEXT LAYER OF UNITS OR PLACING THE GEOSYNTHETICS.

H. AFTER LAYING EACH COURSE, PERFORM A VISUAL OR STRING LINE STRAIGHTNESS CHECK.

3.4 GEOSYNTHETIC REINFORCEMENT

A. THE GEOSYNTHETICS SHALL BE CUT TO THE CORRECT LENGTH AND LAID IN THE ORIENTATION AS SPECIFIED BY THE MANUFACTURER.

B. THE MAGNUMSTONE™ UNIT VOIDS AND BACKFILL ZONE SHALL BE FILLED, COMPACTED, AND LEVELED CORRECTLY BEFORE PLACING THE GEOSYNTHETICS.

C. ENSURE THAT THE MATERIALS DIRECTLY BEHIND THE WALL UNITS ARE FLUSH OR SLIGHTLY HIGHER THAN THE TOP OF THE UNITS SO THAT THE GEOSYNTHETICS WILL NOT BE SHEARED ON THE BACK OF THE UNIT'S SHARP EDGE.

D. SHIMMING OF UNITS SHALL NOT BE ALLOWED ON THE GEOSYNTHETIC LAYERS.

E. THE GEOSYNTHETICS SHALL BE PLACED AS FAR FORWARD ON THE MAGNUMSTONE™ UNITS AS POSSIBLE WITHOUT REVEALING MATERIALS ON THE FACE OF THE WALL.

F. LOOSELY LAY GEOSYNTHETICS TOWARD THE BACK OF THE COMPACTED BACKFILL ZONE.

G. GENTLY PULL THE GEOSYNTHETICS TOWARD THE BACK OF THE COMPACTED BACKFILL ZONE AFTER PLACING THE NEXT ROW OF MAGNUMSTONE™ UNITS ON TOP OF THE GEOSYNTHETICS AND ON TOP OF THE LOWER UNITS.

H. USE STAKES OR GRAVEL MATERIALS TO MAINTAIN TENSION ON THE GEOSYNTHETICS. EXCESSIVE TENSION MAY ALTER THE ALIGNMENT OF THE WALL UNITS.

CONTRACTOR SHALL NOT DRIVE EQUIPMENT DIRECTLY ON THE EXPOSED GEOSYNTHETICS

3.5 DRAINAGE COMPONENTS

A. DRAINAGE PIPE AND GEOTEXTILE SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS.

B. ONCE THE MAGNUMSTONE™ UNITS, GEOSYNTHETICS, AND BACKFILL MATERIALS HAVE BEEN PLACED, THE UNIT VOIDS SHALL BE FILLED WITH A FREE-DRAINING GRANULAR MATERIAL, SUCH AS ¾" (19 MM) CLEAR ROCK (CLEAN GRAVEL) OR CONCRETE AS SHOWN ON PLANS.

3.6 BACKFILL

A. BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF A MODIFIED PROCTOR, IN ACCORDANCE WITH ASTM D 1557.

B. BACKFILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 18 INCHES AND SEATED WITH MULTIPLE PASSES OF A SMALL VIBRATORY COMPACTOR.

C. ONLY HAND-OPERATED COMPACTION EQUIPMENT SHALL BE USED WITHIN 2 FEET (0.6 M) OF THE BACK OF THE WALL.

D. THE TOE OF THE WALL SHALL BE FILLED AND COMPACTED AS THE WALL IS BEING CONSTRUCTED.

3.7 WALL AND DRAIN CONSTRUCTION

A. THE WALL DRAIN SHALL BE PLACED WITHIN THE WALL DRAINAGE FILL AS SHOWN ON THE DETAIL.

3.8 SITE DRAINAGE

A. THE CONTRACTOR SHALL NOT ALLOW SURFACE RUNOFF TO ENTER THE WALL CONSTRUCTION AREA.

B. FINISHED GRADING AT THE TOP OF THE WALL SHOULD PROVIDE DRAINAGE AWAY FROM THE RETAINING WALL SYSTEM TO PREVENT INFILTRATION OF WATER INTO RETAINED SOILS WHICH MAY INCREASE LATERAL PRESSURES ON THE STRUCTURE.

SECTION 4: DESIGN PARAMETERS

4.1 RETAINING WALL IS DESIGNED TO MEET THE FOLLOWING FACTORS OF SAFETY:

A. MINIMUM FACTOR OF SAFETY AGAINST BASE SLIDING: 1.5

B. MINIMUM FACTOR OF SAFETY AGAINST OVERTURNING: 1.75

C. MINIMUM FACTOR OF SAFETY GLOBAL STABILITY: 1.5

D. SOIL BEARING CAPACITY BELOW WALL SHALL BE FIELD VERIFIED BY WHITESTONE DURING CONSTRUCTION

E. DESIGN DOES NOT INCLUDE SNOW LOADING OR VEHICULAR IMPACT LOADING.

SECTION 5: QA/QC

5.1 WALL CONSTRUCTION, MATERIAL CERTIFICATIONS, BACKFILLING, AND PLACEMENT OF MATERIALS TO BE REVIEWED BY WHITESTONE DURING CONSTRUCTION TO CONFIRM DESIGN ASSUMPTIONS.

SECTION 6: ADDITIONAL NOTES

6.1 WHITESTONE SHALL REVIEW AND APPROVE ALL WORK.

6.2 ALL WORK SHALL MEET OSHA REQUIREMENTS. STABILITY OF SLOPES OF EXCAVATIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR DURING CONSTRUCTION.

6.3 EQUIPMENT TRACKS OR TIRES SHALL NOT BE OPERATED WITHIN 4 FEET OF THE RETAINING WALL FACES. EQUIPMENT SHALL TRAVEL PARALLEL WITH THE RETAINING WALL FACES TO THE EXTENT PRACTICAL. TURNING OF EQUIPMENT SHALL BE DONE WITH CARE TO AVOID DISTURBANCE TO THE RETAINING WALL AND GEOGRID. IN THE EVENT THAT GEOGRID OR RETAINING WALL MATERIALS ARE DISTURBED OR OTHERWISE AFFECTED BY EQUIPMENT, THESE MATERIALS ARE TO BE REPLACED.

6.4 SPECIAL CONNECTION DETAIL REQUIRED AT THE CONNECTION BETWEEN THE MAGNUMSTONE™ BLOCK WALL AND ADJACENT DUMPSTER CORRAL WALL. 3/4-INCH DIAMETER DOWELS TO BE INSTALLED AT THE MIDPOINT OF THE HEIGHT OF THE MAGNUMSTONE BLOCK AND BE EMBEDDED A MINIMUM OF 6 INCHES INTO BOTH THE MAGNUMSTONE BLOCK AND CONCRETE WALL.

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REVISIONS:

REV:	DATE:	COMMENTS:	BY:

JOB NO.: GM1916880.001
DRAWN BY: JRL
CHECKED BY: RRR
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320 U.S. HIGHWAY 9N
MAP 22, BLOCK 201, PORTION OF LOT 11
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FOR

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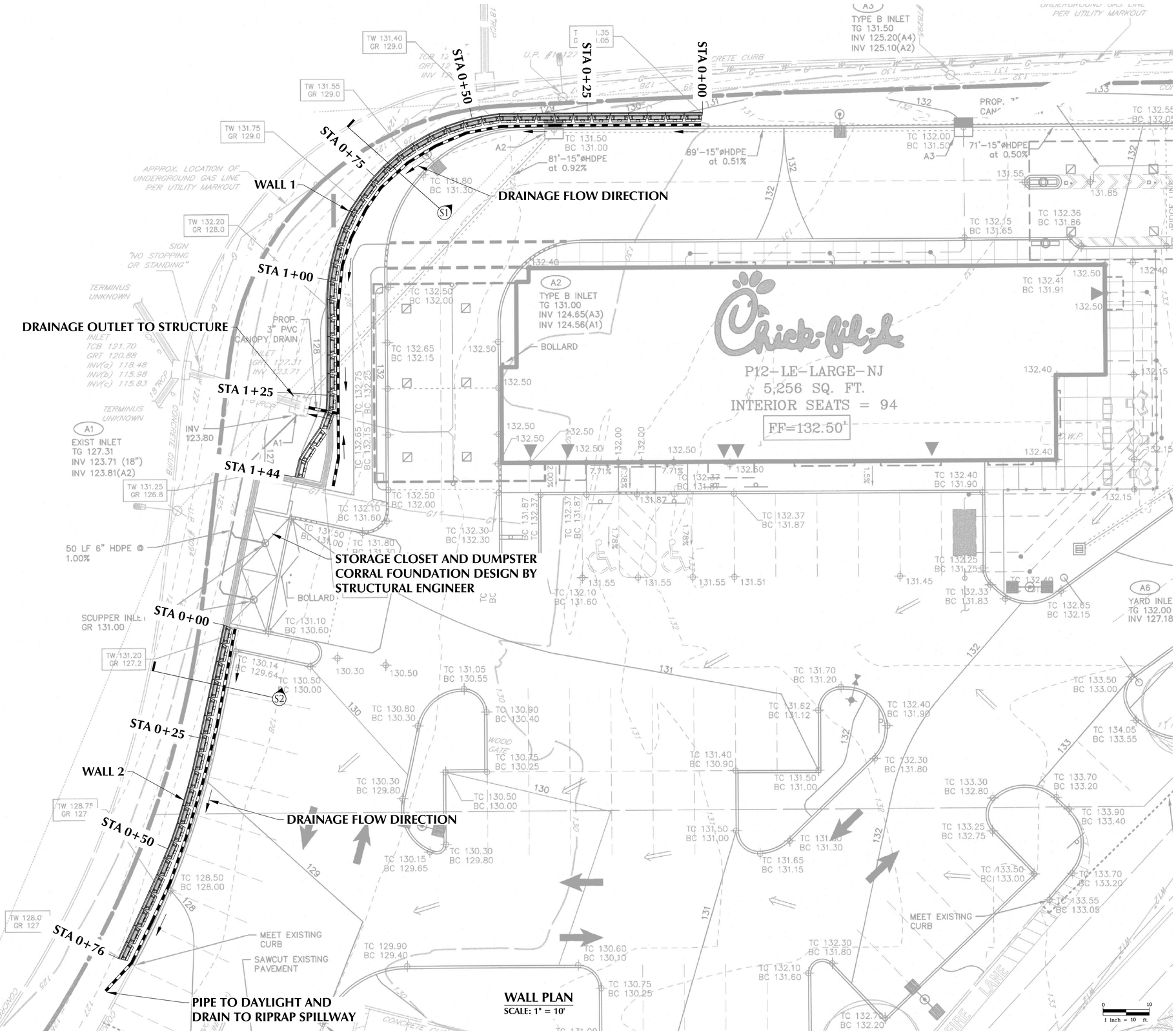


RYAN R. ROY, P.E.
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. GE47926

SHEET TITLE:
NOTES

SHEET NUMBER:
2 OF 5

REVISIONS - 0



WALL PLAN
SCALE: 1" = 10'

0 10
1 inch = 10 ft.

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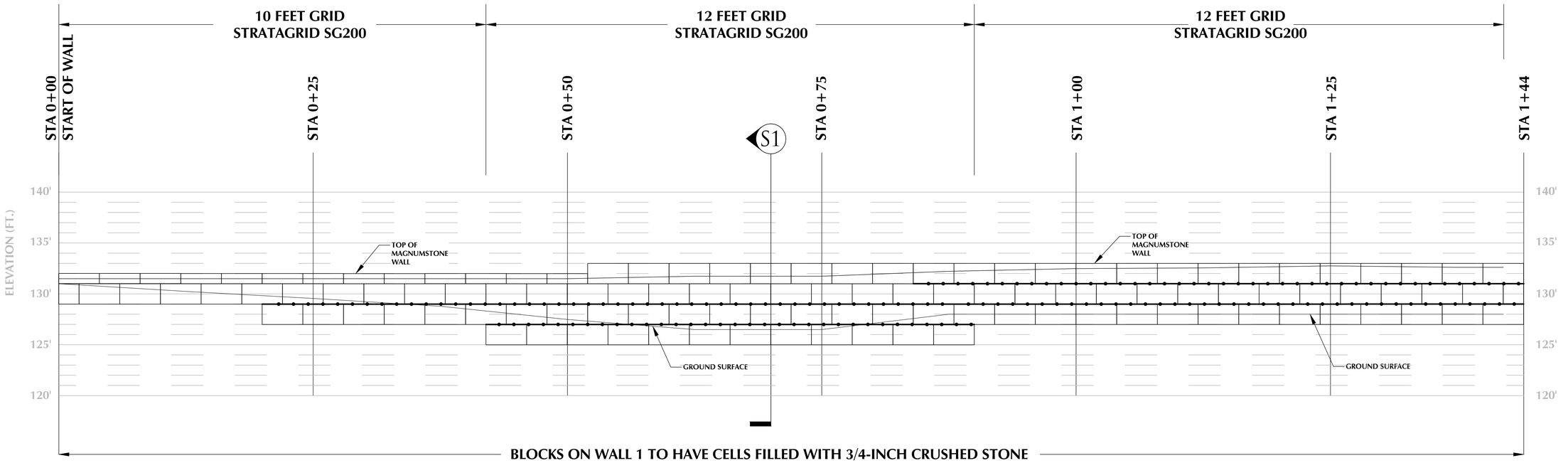
STATE OF NEW JERSEY
RYAN R. ROY
NO. GE47926
LICENSED PROFESSIONAL ENGINEER

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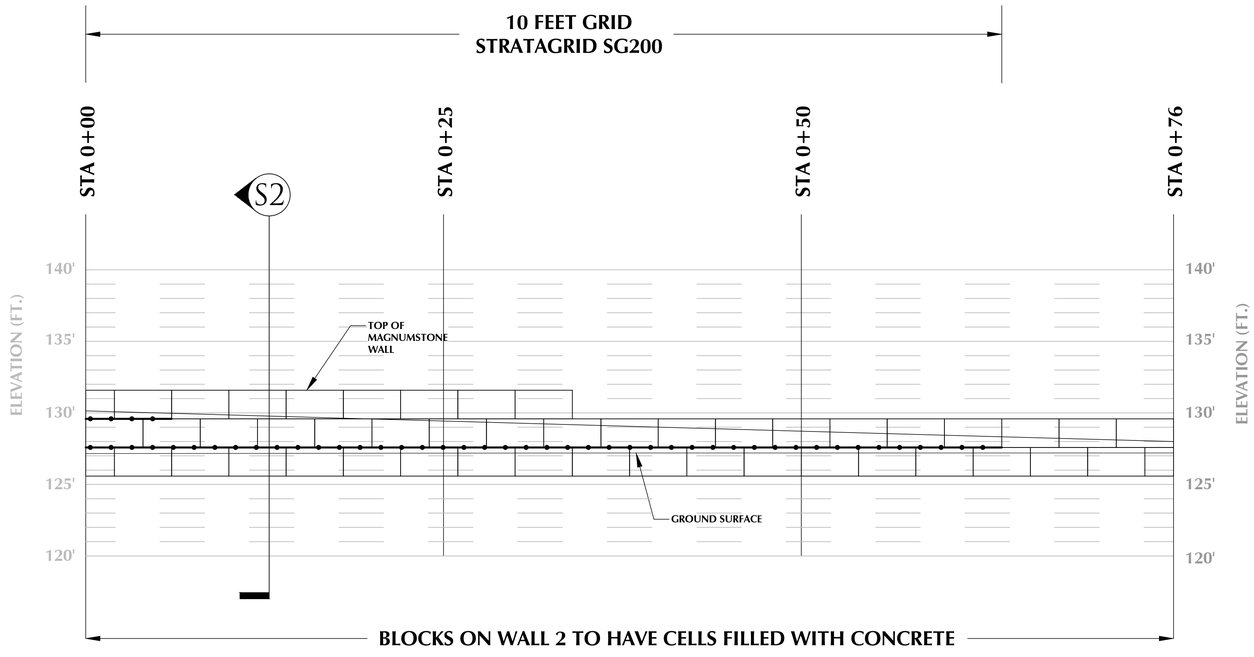
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PLAN

SHEET NUMBER:
3 OF 5

REVISIONS - 0



WALL 1 ELEVATION
SCALE: 1" = 5'



WALL 2 ELEVATION
SCALE: 1" = 5'

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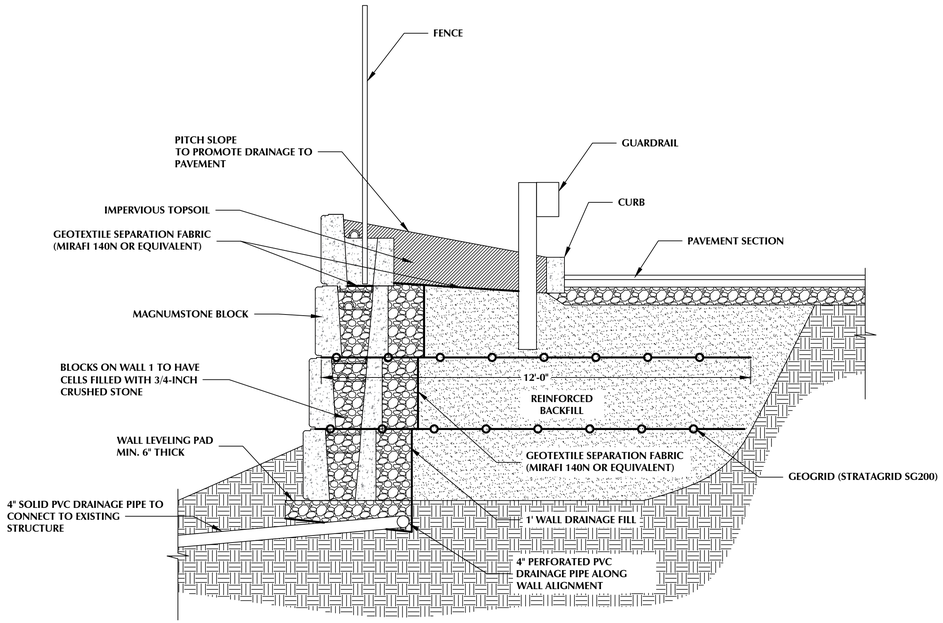
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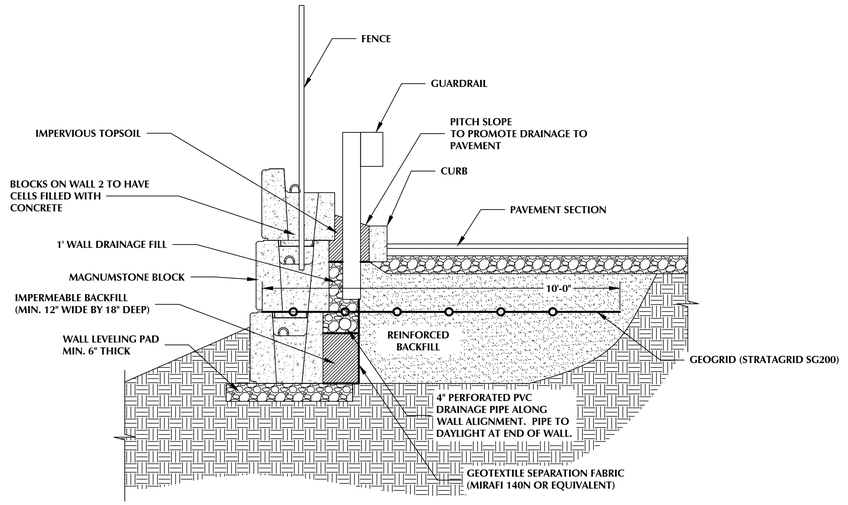
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SHEET NUMBER:
4 OF 5

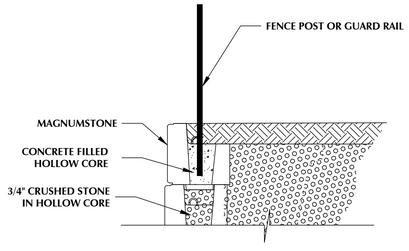
REVISIONS - 0



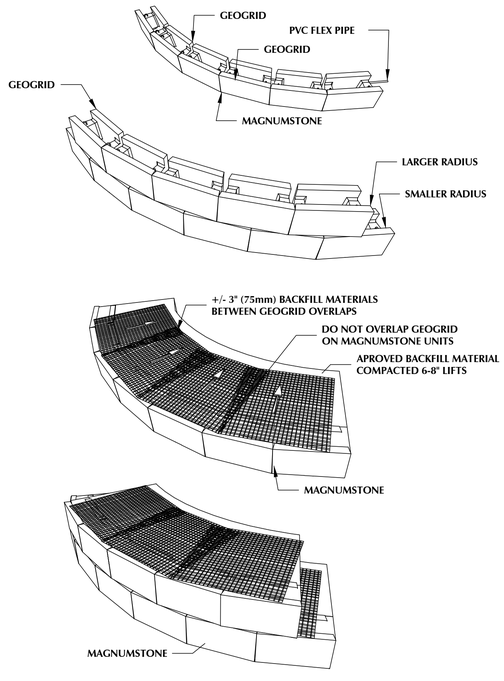
SECTION AT WALL 1
NTS



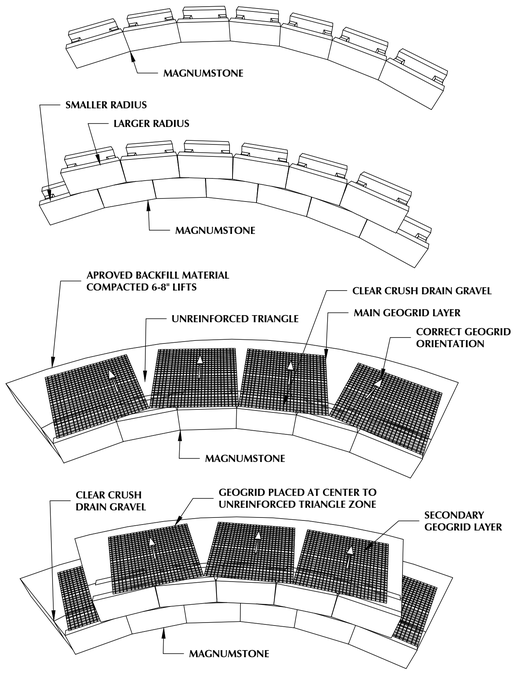
SECTION AT WALL 2
NTS



FENCE POST DETAIL
NTS



OUTSIDE CURVE DETAIL
NTS



INSIDE CURVE DETAIL
NTS

WHITESTONE ASSOCIATES, INC.
Environmental & Geotechnical Engineers & Consultants
16 OLD FORGE ROAD, SUITE A, ROCKY HILL, CT 06067
860.726.7889 WHITESTONEASSOC.COM

REVISIONS:

REV:	DATE:	COMMENTS:	BY:

JOB NO.: GM1916880.001
DRAWN BY: JRL
CHECKED BY: RRR
DATE: 05/12/22
SCALE: AS SHOWN

PROJECT:

RETAINING WALL DESIGN
PROPOSED CHICK-FIL-A RESTAURANT 04591
320 U.S. HIGHWAY 9N
MAP 22, BLOCK 201, PORTION OF LOT 11
WOODBRIDGE TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY

FOR

CHICK-FIL-A, INC.
5200 BUFFINGTON ROAD
ATLANTA, GEORGIA 30426

THE INFORMATION, DESIGN AND CONTENT OF THIS PLAN ARE PROPRIETARY AND SHALL NOT BE COPIED OR USED FOR ANY PURPOSE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM WHITESTONE ASSOCIATES, INC.

STATE OF NEW JERSEY · RYAN R. ROY · NO. GE47026 · LICENSED PROFESSIONAL ENGINEER

RYAN R. ROY, P.E.
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. GE47926

SHEET TITLE:
DETAILS

SHEET NUMBER:
5 OF 5

REVISIONS - 0

GOVERNMENTAL AGENCIES

BUILDING DEPARTMENT

Woodbridge Township Planning Board
1 Main Street
Woodbridge, NJ, 07095
Contact: Mr. Anthony Tortorello
Phone: (732) 602-6434
Email: tony.tortorello@twp.woodbridge.nj.us

FIRE DEPARTMENT

Woodbridge Township Planning Board
1 Main Street
Woodbridge, NJ, 07095
Contact: Keith Repace, Fire Official
Phone: (732) 602-6040
Email: keith.repace@twp.woodbridge.nj.us

HEALTH DEPARTMENT

Middlesex County Department of
Environmental Health
2 George Federick Plaza
Woodbridge, NJ, 07095
Contact: Erica Schneckendorf
Phone: (732) 855-0600 x 5027
Email: Erica.schneckendorf@twp.woodbridge.nj.us

BUILDING DATA

BUILDING CODE:
2018 International Building Code
New Jersey Edition

PLUMBING CODE:
2018 National Standard Plumbing Code

MECHANICAL CODE:
2018 International Mechanical Code
New Jersey Edition

ELECTRICAL CODE:
2017 National Electric Code

FIRE CODE:
2018 International Fire Code
New Jersey Edition

ENERGY CODE:
2018 IECC/2016 ASHRAE 90.1-/ IECC
coordinate with local jurisdiction

ACCESSIBILITY:
2009 ANSI/ICC A117.1

NOTE:
See G-002 for Accessibility notes, Life Safety notes & code summaries.

GENERAL NOTES:

The certifying architect of record identified on these documents has utilized "standard" or "prototypical" construction documents in the development of these documents. The project owner provides the prototype construction documents and a permission letter from the original architect is on file in the certifying architect's office. The services provided by the certifying architect include examination and review of the prototypical documents, modifications for specific site adaptation requirements, research and review with local regulatory agency officials prior to submission of documents for building permit review, and coordination and modficiations of the documents to establish compliance with local regulatory agency requirements. The certifying architect hereby assumes professional responsibility for the adequacy of these documents in most instances. The certifying architect has not been engaged to perform construction period services.

URBAN EDGE PROPERTIES GENERAL NOTES:

1. IN CASE DISCREPANCIES EXIST BETWEEN THE SPECIFICATIONS INDICATED IN THESE PLANS WITH THOSE THAT ARE DEFINED OR PROVIDED IN THE EXECUTED LEASE, THE EXECUTED LEASE, TOGETHER WITH ALL OF ITS EXHIBITS, ATTACHMENTS, AND MODIFICATIONS SHALL PREVAIL.

2. NO PRE-CONSTRUCTION OR ANY TYPE OF CONSTRUCTION IS PERMITTED PRIOR TO LEASE EXECUTION AND ISSUANCE OF REQUIRED GOVERNMENTAL APPROVALS AND/OR PERMITS.

3. LANDLORD'S REVIEW IS FOR CONCEPT ONLY.

4. TENANT'S WORK MUST BE PERFORMED AND COMPLETED IN AN APPROVED MANNER AND MUST BE BASED ON CURRENT CONSTRUCTION STANDARDS AND ACCEPTABLE PRACTICE AND MUST BE OF SOUND, GOOD, AND QUALITY WORKMANSHIP.

5. CONSTRUCTION AND SPECIFICATIONS MUST COMPLY WITH APPLICABLE LOCAL, STATE & FEDERAL LAWS AND CODES & MUST BE FREE FROM UNSAFE OR HAZARDOUS CONDITIONS.

6. SPRINKLER MODIFICATIONS, IF ANY, SHALL CONFORM TO INDUSTRY STANDARDS, REQUIREMENTS & APPLICABLE SECTIONS OF THE JURISDICTION'S APPROVED EDITION OF THE NFPA CODE AND AND STANDARDS.

7. TENANT'S WORK TO BE PERFORMED AT TENANT'S EXPENSE. LANDLORD'S PROPERTY OPERATIONS MANAGER, BOB ALBERT, WITH TEL. NO. (201) 403-5682, MUST BE NOTIFIED PRIOR TO ALL PROPOSED WORKS AND ROOF PENETRATIONS.

8. TENANT'S LEASED PREMISES MUST COMPLY WITH TITLE III OF THE AMERICANS WITH DISABILITIES ACT (ADA). COMPLIANCE WILL INCLUDE, BUT NOT LIMITED TO, THE DESIGN, CONSTRUCTION AND/OR ALTERATION OF THE LEASED PREMISES. UPON COMPLETION OF THE WORK, TENANT OR TENANT'S ARCHITECT MUST SUPPLY LANDLORD WITH A LETTER, SATISFACTORY TO LANDLORD, STATING THAT THE LEASED PREMISES HAVE BEEN DESIGNED AND CONSTRUCTED IN ACCORDANCE AND ARE IN COMPLIANCE WITH THE ADA.

9. TENANT SHALL PROVIDE GREASE GUARDS UNDER ALL KITCHEN ROOF EXHAUST FANS. GC TO CONTACT ROOFTOP SOLUTIONS PER MECH. DRAWINGS.

1

NOTES ON CERTIFICATE OF LIABILITY INSURANCE

1. GENERAL CONTRACTOR (GC) IS TO SUBMIT A CERTIFICATE OF LIABILITY INSURANCE (COI) TO THE LANDLORD (LL) THROUGH THE TENANT (TT) FOR THE LL'S REVIEW AND APPROVAL.

2. GC TO OBTAIN FROM TT DETAILS REGARDING INSURANCE REQUIRED TO PERFORM TT'S WORK WITHIN LL'S PROPERTY.

3. NO WORK IS TO COMMENCE WITHOUT LL'S APPROVAL OF TT'S COMPLETE A&E PLANS AND LL'S ACCEPTANCE OF THE GC'S COI.

4. TT MUST OBTAIN AND SHOW PROOF OF INSURANCE COVERAGE TO LL PRIOR TO PERFORMING OR ALLOWING ANY CONTRACTOR TO PERFORM TT'S WORK.

VICINITY MAP



REGION: NORTHEAST

04591
P13 LE LRG
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095



ITEMS OF IMPORTANCE

INCLUDED IN PROJECT	ITEM NUMBER	ITEM DESCRIPTION
Yes	1	THIS BUILDING WILL BE SPRINKLERED.
Yes	2	AN EMPLOYEE RESTROOM HAS BEEN PROVIDED TO THE BACK OF HOUSE PER THE PLUMBING CODE.
Yes	3	INSULATION REQUIREMENTS ARE SHOWN IN THE SCHEDULE ON SHEET A-201.
Yes	4	THE DRAWINGS HAVE BEEN REVISED WITH DELTA #1, DATED 3-29-22, AND TITLED DESIGN NOTES. SEE REVISION SCHEDULE SHEET G-005 FOR MORE INFO.
Yes	5	THE DRAWINGS HAVE BEEN REVISED WITH DELTA #2, DATED 6-21-22, AND TITLED CODE COMMENTS. SEE REVISION SCHEDULE SHEET G-005 FOR MORE INFO.
Yes	6	THE DRAWINGS HAVE BEEN REVISED WITH DELTA #3, DATED 7-22-22, AND TITLED DESIGN NOTES. SEE REVISION SCHEDULE SHEET G-005 FOR MORE INFO.

ARCHITECT
Edwards + Hotchkiss Architects
750 Old Hickory Blvd, Suite 250
Brentwood, TN 37027
Phone: (615) 467-2902
Fax: (615) 377-0978
Contact Name: Matt Noll
Contact Email: mattn@eandharch.com

STRUCTURAL - DESIGN
Willett Engineering
3528 Habersham at Northlake
Tucker, GA 30084
Phone: (919) 957-5100
Contact Name: Laura Moore
Contact Email:
lmoore@willettengineering.com

MECHANICAL, PLUMBING, ELECTRICAL
Kurzynske and Associates
2900 Lebanon Pike, Suite 201
Nashville, TN 37214
Phone: (615) 255-5206
Contact Name: Mark Kurzynske
Contact Email: mkurzynske@kurzynske.com

KITCHEN
Tri-Mark Strategic
3011 Industrial Parkway East
Knoxville, TN 37921
Phone: (865) 545-5263
Fax: (865) 617-6838
Contact Name: Tequirah Harper
Contact Email: tharper@strategicequipment.com

CIVIL/LANDSCAPE
Colliers Engineering
331 Newman Springs Rd. #203
Red Bank, NJ 07701
Phone: (609) 362-6900
Contact Name: Vincent Kelly
Contact Email:
vincent.kelly@colliersengineering.com

OP/OMD CANOPIES
Fashion
1019 E. North Street
Ottawa, KS 66067
Phone: (785) 242-8111
Fax: (785) 242-2022
Contact Name: Jason Holmes
Contact Email: jholmes@fashioninc.com

FIRE PROTECTION
Strong Systems International, Inc.
3100 Northwoods Pl, Ste B
Peachtree Corners, GA 30071
Phone: (770) 462-2510
Contact Name: Melinda Fierge
Contact Email:
Melinda.fierge@strongsystems.com

FURNITURE
Charter House Innovations
200 N. Franklin Street
Zeeland, MI 49464
Phone: (800) 314-7659
Contact Name: Erin Mills
Contact Email: cfa@charter-house.com

SHEET INDEX

SHEET NUMBER	SHEET NAME	ISSUED FOR BID	ISSUED FOR PERMIT	ISSUED FOR CONSTRUCTION
G-000	COVER SHEET			
G-001	AHJ REQUIRED INFORMATION			
G-002	ACCESSIBILITY SHEET			
G-003	LIFE SAFETY PLAN			
G-004	RESPONSIBILITY AND NATIONAL ACCOUNTS SCHEDULE			
G-005	REVISION SCHEDULE			
C-001	CIVIL SHEET PLACE HOLDER			
L-001	LANDSCAPE SHEET PLACE HOLDER			
VMS-1	VMS - SUBSLAB VENTING SYSTEM			
VMS-2	VMS - ROOF LAYOUT			
VMS-3	VMS - FLOOR PLAN			
VMS-4	VMS - DETAILS			
A-101	PATIO PLANS			
A-103	REFUSE ENCLOSURE			
A-104	ORDER POINT CANOPY			
A-105	OUTSIDE MEAL DELIVERY CANOPY			
A-201	FLOOR PLAN			
A-211	FLOOR FINISH PLAN			
A-221	REFLECTED CEILING PLAN			
A-230	ROOF PLAN			
A-301	EXTERIOR ELEVATIONS			
A-401	WALL SECTIONS			
A-501	EXTERIOR DETAILS			
A-502	EXTERIOR DETAILS			
A-503	EXTERIOR DETAILS			
A-601	KITCHEN ELEVATIONS AND DETAILS			
A-602	KITCHEN ELEVATIONS AND DETAILS			
A-603	KITCHEN ELEVATIONS AND DETAILS			
A-604	KITCHEN AND INTERIOR DETAILS			
A-611	RESTROOM PLAN AND ELEVATIONS			
A-621	DINING ELEVATIONS AND DETAILS			
A-622	DINING ELEVATIONS AND DETAILS			
A-623	DINING ELEVATIONS AND DETAILS			
A-624	DINING ELEVATIONS AND DETAILS			
A-631	TEAM AREA PLAN AND ELEVATIONS			
A-701	MILLWORK PLANS AND ELEVATIONS			
A-801	DOOR AND WINDOW LEGENDS			
A-901	SPECIFICATIONS			
A-902	SPECIFICATIONS			
A-903	SPECIFICATIONS			
A-904	SPECIFICATIONS			
A-905	SPECIFICATIONS			
A-906	SPECIFICATIONS			
A-907	SPECIFICATIONS			
A-908	SPECIFICATIONS			
A-909	SPECIFICATIONS			
A-910	SPECIFICATIONS			
A-911	SPECIFICATIONS			
S-001	STRUCTURAL NOTES			
S-201	FOUNDATION PLAN			
S-211	SLAB & BRICK LEDGE LAYOUT PLAN			
S-231	FRAMING PLAN			
S-241	DROPPED CEILING PLAN			
S-300	CONCRETE DETAILS			
S-301	FOUNDATION DETAILS			
S-302	FOUNDATION DETAILS			
S-401	SECTIONS & DETAILS			
S-402	SECTIONS & DETAILS			
S-403	SECTIONS & DETAILS			
S-404	SECTIONS & DETAILS			
S-405	BRACED FRAME			
S-601	REFUSE ENCLOSURE PLANS AND DETAILS			
S-901	STRUCTURAL SPECIFICATIONS			
S-902	STRUCTURAL SPECIFICATIONS			
M-201	MECHANICAL FLOOR PLAN			
M-250	MECHANICAL ROOF PLAN			
M-301	HOOD DETAILS AND SCHEDULES			
M-401	HVAC DETAILS AND SCHEDULES			
M-501	HVAC CONTROLS			
M-502	HVAC CONTROLS			
M-901	MECHANICAL SPECIFICATIONS			
MH-101	HALTON HOOD SHOP DRAWINGS			
FP1.1	SPRINKLER MONITORING LAYOUT			
FP2.1	FIRE SPRINKLER NOTES AND DETAILS			
FP2.2	FIRE SPRINKLER LAYOUT AND PIPING			
GD1	CO2 MONITORING LAYOUT			
P-101	BELOW SLAB PLUMBING PLAN			
P-201	WATER PIPING PLAN			
P-211	BEVERAGE CONDUIT PLAN			
P-221	SLAB ROUGH-IN PLAN			
P-250	ROOF PLAN AND DETAILS			
P-251	CANOPY PLAN AND DETAILS			
P-301	DWV RISER DIAGRAM			
P-302	WATER RISER DIAGRAM			
P-303	DETAILS AND SCHEDULES			
P-901	PLUMBING SPECIFICATIONS			
E-001	ELECTRICAL SCHEDULES AND DETAILS			
E-002	ELECTRICAL SCHEDULES AND DETAILS			
E-100	ELECTRICAL SITE PLAN			
E-101	ELECTRICAL SITE DETAILS			
E-211L	LIGHTING PLAN			
E-221L	POWER AND SYSTEMS PLAN			
E-250L	ROOF POWER PLAN			
E-301	ENLARGED KITCHEN POWER PLAN			
E-302	ENLARGED SERVING AND BOH POWER PLAN			
E-303	DT ORDERING AREA DETAILS & REFUSE ENCLOSURE PLAN			
E-304	ORDER CANOPY PLAN AND DETAILS			
E-305	CANOPY CONTROL PANEL WIRING DIAGRAM			
E-501L	PANEL SCHEDULES			
E-502	SINGLE LINE DIAGRAM AND NOTES			
E-901	ELECTRICAL SPECIFICATIONS			
E-902	ELECTRICAL SPECIFICATIONS			
K-001	GENERAL NOTES			
K-201	OVERALL EQUIPMENT FLOOR PLAN			
K-211	ENLARGED EQUIPMENT FLOOR PLAN			
K-212	ENLARGED EQUIPMENT FLOOR PLAN			
K-601	ELECTRICAL ROUGH-IN ELEVATIONS			
K-602	ELECTRICAL ROUGH-IN ELEVATIONS			
K-603	ELECTRICAL ROUGH-IN ELEVATIONS			
K-604	ELECTRICAL ROUGH-IN ELEVATIONS			
K-611	PLUMBING ROUGH-IN ELEVATIONS			
K-801	EQUIPMENT SCHEDULE			
K-802	EQUIPMENT SCHEDULE			
K-901	KITCHEN DETAILS			
K-902	KITCHEN DETAILS			
K-903	KITCHEN DETAILS			
F-201	FURNITURE FLOOR PLAN			
F-211	FURNITURE CORE DRILL PLAN			
F-701	DECOR ELEVATIONS			
F-702	FURNITURE PRODUCT DETAILS			
F2F-CA1	FOUNDATION PLAN			
F2F-CA2	FRAMING PLAN			
F2F-CA3	STANDARD DETAILS			
OMD-CB1	FOUNDATION PLAN			
OMD-CB2	FRAMING PLAN			
OMD-CB3	STANDARD DETAILS			

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

ROY A. WILLIAMS ARCHITECT
License No: 21AI02240800
Issue Date: 05/16/2022
Expiration Date: 07/31/2023

750 OLD HICKORY BLVD. SUITE 2-250
BRENTWOOD, TN 37027
PHONE: 615.377.3111
FAX: 615.377.0978
EMAIL: GENMAIL@EANDHARCH.COM

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

CONSTRUCTION

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT
1	03/29/2022	DESIGN NOTES

CONSULTANT PROJECT #	04591
PRINTED FOR	CONSTRUCTION
DATE	1/26/22
DRAWN BY	Author

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SHEET
COVER SHEET

SHEET NUMBER
G-000

9/26/2022 9:54:57 AM
05-LE-04591-G-000-COVER SHEET

COMcheck Software Version 4.1.5.5
Envelope Compliance Certificate

Project Information

Energy Code: 90.1 (2016) Standard
Project Title: Chick-Fil-A - West Pond
Location: Woodbridge, New Jersey
Climate Zone: 4a
Project Type: New Construction
Vertical Glazing / Wall Area: 11%
Performance Sim. Specs: EnergyPlus 8.1.0.009 (EPW: USA_NJ_Newark.Intl.AP.725020_TMY3.epw)

Construction Site:
320 US-9N
Woodbridge Township, NJ 07095

Owner/Agent:
Chick-fil-A
5200 Buffington Road
Atlanta, GA 30349

Designer/Contractor:
Roy Williams
Edwards + Hotchkiss Architects
Brentwood, TN 37027

Building Area	Floor Area
1-Dining: Cafeteria/Fast Food : Nonresidential	5067

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Floor 1: Slab-On-Grade:Unheated Fully insulated (uniform R-value across perimeter + under entire slab), [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (c)	343	---	10.0	0.360	0.520
Roof 1: Insulation Entirely Above Deck, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	4882	---	30.0	0.032	0.032
NORTHEAST					
Exterior Wall - Service Elevation: Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	569	21.0	5.0	0.045	0.064
Window - Type A: Metal Frame:Fixed, Perf. Specs.: Product ID YKK, SHGC 0.28, VT 0.54, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	47	---	---	0.460	0.380
Door #13: Insulated Metal, Swinging, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	31	---	---	0.290	0.370
SOUTHEAST					
Exterior Wall - Main Entry Elevation: Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	1670	21.0	5.0	0.045	0.064
Window - Type A: Metal Frame:Fixed, Perf. Specs.: Product ID YKK, SHGC 0.28, VT 0.54, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	47	---	---	0.460	0.380
Window - Type A: Metal Frame:Fixed, Perf. Specs.: Product ID YKK, SHGC 0.28, VT 0.54, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	47	---	---	0.460	0.380
Window - Type A: Metal Frame:Fixed, Perf. Specs.: Product ID YKK, SHGC 0.28, VT 0.54, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	47	---	---	0.460	0.380
Window - Type A: Metal Frame:Fixed, Perf. Specs.: Product ID YKK, SHGC 0.28, VT 0.54, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	47	---	---	0.460	0.380
Window - Type A: Metal Frame:Fixed, Perf. Specs.: Product ID YKK, SHGC 0.28, VT 0.54, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	47	---	---	0.460	0.380
Window - Type A: Metal Frame:Fixed, Perf. Specs.: Product ID YKK, SHGC 0.28, VT 0.54, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	47	---	---	0.460	0.380

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Window - Type D: Metal Frame:Fixed, Perf. Specs.: Product ID YKK, SHGC 0.28, VT 0.54, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	34	---	---	0.460	0.380
Window - Type E: Metal Frame:Fixed, Perf. Specs.: Product ID YKK, SHGC 0.28, VT 0.54, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	15	---	---	0.460	0.380
Window - Type L: Metal Frame:Fixed, Perf. Specs.: Product ID YKK, SHGC 0.28, VT 0.54, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	8	---	---	0.460	0.380
Door #10: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID YKK, SHGC 0.74, VT 0.66, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	24	---	---	0.860	0.680
Door #20: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID YKK, SHGC 0.74, VT 0.66, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	45	---	---	0.860	0.680
Door #24: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID YKK, SHGC 0.74, VT 0.66, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	24	---	---	0.860	0.680
SOUTHWEST					
Exterior Wall - Drive-Thru Elevation: Steel-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	339	21.0	5.0	0.069	0.064
Exterior Wall - Drive-Thru Elevation: Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	254	21.0	5.0	0.045	0.064
Door #11: Uninsulated Single-Layer Metal, Non-Swinging, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	54	---	---	1.450	0.310
NORTHWEST					
Exterior Wall - Kitchen Elevation: Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	1557	21.0	5.0	0.045	0.064
Window - Type C: Metal Frame:Fixed, Perf. Specs.: Product ID YKK, SHGC 0.28, VT 0.54, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	10	---	---	0.460	0.380
Window - Type C: Metal Frame:Fixed, Perf. Specs.: Product ID YKK, SHGC 0.28, VT 0.54, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	10	---	---	0.460	0.380
Window - Type C: Metal Frame:Fixed, Perf. Specs.: Product ID YKK, SHGC 0.28, VT 0.54, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	10	---	---	0.460	0.380
Exterior Wall - Kitchen Elevation: Steel-Framed, 16" o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	390	21.0	5.0	0.069	0.064
Window - Type F: Metal Frame:Fixed, Perf. Specs.: Product ID YKK, SHGC 0.28, VT 0.54, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	10	---	---	0.460	0.380

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 0.1% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 90.1 (2016) Standard requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Roy Williams, Architect — Name - Title
Signature
10-3-22 — Date

COMcheck Software Version 4.1.5.1
Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2016) Standard
Project Title: Chick-fil-A #04591
Project Type: New Construction

Construction Site:
320 US 9 N
Woodbridge Township, NJ 07095

Owner/Agent:
Chick-fil-A
5200 Buffington Road
Atlanta, GA 30349

Designer/Contractor:
Kurzynske & Associates
2705 Lebanon Pike
Suite One
Nashville, TN 37214
615-255-5203

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Dining: Cafeteria/Fast Food	4954	0.79	3914
		Total Allowed Watts =	3914

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Dining: Cafeteria/Fast Food				
LED: A2/A2E: Kitchen Troffer: Other:	1	49	39	1911
LED: B1: LED Task Light: LED Undercabinet Unit 24W:	1	2	32	64
LED: D3/D3E: LED Downlight: Other:	1	67	21	1407
LED: F: Egg Light: Other:	1	4	12	48
LED: G1: LED Strip Light: Other:	1	1	44	44
LED: N: Lavatory Sconce: Other:	1	4	11	44
LED: P1: Peach Upside Down Pendant: Other:	1	2	22	44
LED: U: Table Pendant: Other:	1	4	8	32
		Total Proposed Watts =		3594

Interior Lighting PASSES: Design 8% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2016) Standard requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Mark T. Kurzynske, PE — Name - Title
Signature
1/24/22 — Date

COMcheck Software Version 4.1.5.1
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2016) Standard
Project Title: Chick-fil-A #04591
Project Type: New Construction
Exterior Lighting Zone: 2 (Neighborhood business district)

Construction Site:
320 US 9 N
Woodbridge Township, NJ 07095

Owner/Agent:
Chick-fil-A
5200 Buffington Road
Atlanta, GA 30349

Designer/Contractor:
Kurzynske & Associates
2705 Lebanon Pike
Suite One
Nashville, TN 37214
615-255-5203

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Illuminated area of facade wall or surface	2150 ft2	0.1	No	215
Pedestrian and vehicular entrances and exits	19 ft of door	14	Yes	266
Parking area	34666 ft2	0.04	Yes	1387
OMD Canopy (Free standing/attached sales canopy)	1262 ft2	0.4	Yes	505
Order Canopy (Free standing/attached sales canopy)	1348 ft2	0.4	Yes	539
		Total Tradable Watts (a) =		2697
		Total Allowed Watts =		2912
		Total Allowed Supplemental Watts (b) =		400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Illuminated area of facade wall or surface (2150 ft2): Non-tradable Wattage				
LED: OA: Wall Sconce: Other:	2	15	24	360
Pedestrian and vehicular entrances and exits (19 ft of door width): Tradable Wattage				
LED: Z1: Integral Canopy Ltg: Other:	1	6	12	72
LED: OA: Wall Sconce: Other:	2	1	24	24
Parking area (34666 ft2): Tradable Wattage				
LED: OD: Site Pole: LED Roadway-Parking Unit 130W:	1	14	86	1204
OMD Canopy (Free standing/attached sales canopy 1262 ft2): Tradable Wattage				
LED: Z2: Integral Canopy Ltg: Other:	1	4	74	296
Order Canopy (Free standing/attached sales canopy 1348 ft2): Tradable Wattage				
LED: Z2: Integral Canopy Ltg: Other:	1	6	74	444
		Total Tradable Proposed Watts =		2040

Exterior Lighting PASSES: Design 31% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2016) Standard requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Mark T. Kurzynske, PE — Name - Title
Signature
1/24/22 — Date

COMcheck Software Version 4.1.5.1
Mechanical Compliance Certificate

Project Information

Energy Code: 90.1 (2016) Standard
Project Title: Chick-fil-A #04591
Location: Woodbridge, New Jersey
Climate Zone: 4a
Project Type: New Construction

Construction Site:
320 US 9 N
Woodbridge Township, NJ 07095

Owner/Agent:
Chick-fil-A
5200 Buffington Road
Atlanta, GA 30349

Designer/Contractor:
Kurzynske & Associates
2705 Lebanon Pike
Suite One
Nashville, TN 37214
615-255-5203

Mechanical Systems List

Quantity — System Type & Description

1 — AC#1 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 320 kBtu/h
Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et
Cooling: 1 each - Single Package DX Unit, Capacity = 282 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 10.60 EER, Required Efficiency: 9.80 EER + 11.4 IEER
Fan System: AC#1 | Kitchen -- Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 1 Supply, Constant Volume, 9500 CFM, 7.5 motor nameplate hp, 91.7 fan efficiency grade

1 — AC#2 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 280 kBtu/h
Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et
Cooling: 1 each - Single Package DX Unit, Capacity = 181 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 11.80 EER, Required Efficiency: 10.80 EER + 12.2 IEER
Fan System: AC#2 | Serving -- Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 3 Supply, Constant Volume, 5600 CFM, 5.0 motor nameplate hp, 84.0 fan efficiency grade

1 — AC#3 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 320 kBtu/h
Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et
Cooling: 1 each - Single Package DX Unit, Capacity = 241 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 9.80 EER + 11.4 IEER, Required Efficiency: 9.80 EER + 11.4 IEER
Fan System: AC#3 | Main Dining -- Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 4 Supply, Constant Volume, 6400 CFM, 5.0 motor nameplate hp, 86.5 fan efficiency grade

7 — GIH (Single Zone):
Heating: 1 each - Radiant Heater, Gas, Capacity = 50 kBtu/h
No minimum efficiency requirement applies
Fan System: None

1 — P-19 (WATER HEATER):
Gas Storage Water Heater, Capacity: 60 gallons, Input Rating: 120 kBtu/h w/ Circulation Pump
Proposed Efficiency: 80.00 % Et, Required Efficiency: 80.00 % Et

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2016) Standard requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Mark T. Kurzynske, PE — Name - Title
Signature
1/24/22 — Date

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

ROY A. WILLIAMS ARCHITECT
License No: 21AI02240800
Issue Date: 05/16/2022
Expiration Date: 07/31/2023

750 OLD HICKORY BLVD. SUITE 2-250
BRENTWOOD, TN 37027
PHONE: 615.377.3111
FAX: 615.377.0978
EMAIL: GENMAIL@EANDHARCH.COM

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT
3	07/22/2022	DESIGN NOTES

CONSTRUCTION

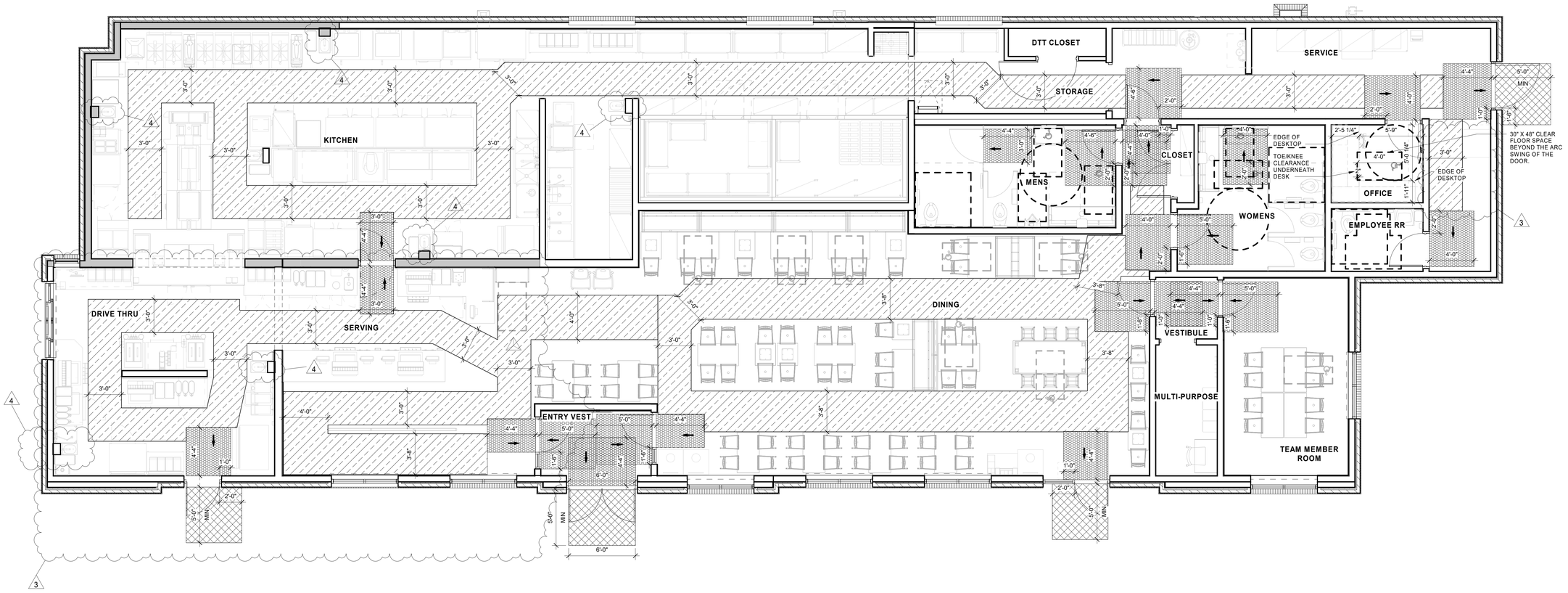
CONSULTANT PROJECT # 04591
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DATE 1/26/22
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SHEET
AHJ REQUIRED INFORMATION

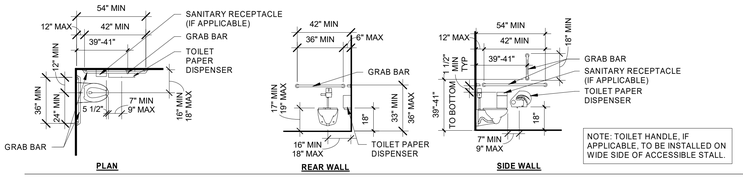
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G-001

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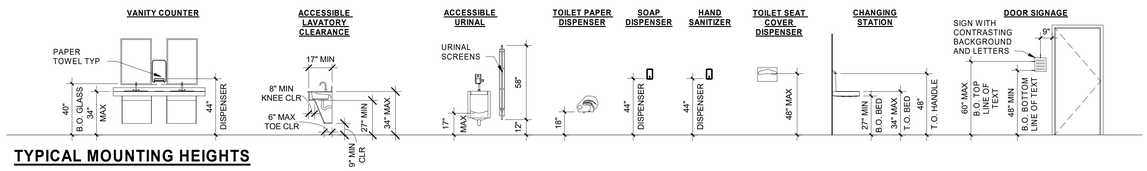
C1 ACCESSIBILITY PLAN
1/4" = 1'-0"

ACCESSIBILITY REQUIREMENTS



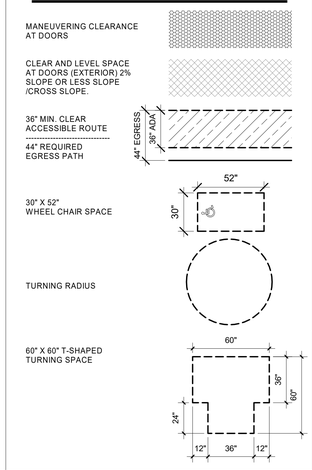
NOTE: TOILET HANDLE, IF APPLICABLE, TO BE INSTALLED ON WIDE SIDE OF ACCESSIBLE STALL.

TYPICAL ACCESSIBLE WATER CLOSET



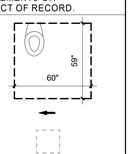
TYPICAL MOUNTING HEIGHTS

ACCESSIBILITY LEGEND



ACCESSIBILITY NOTES

1. ALL CROSS SLOPES THAT ARE A PORTION OF THE ACCESSIBLE ROUTE SHALL BE A MAXIMUM OF 2%
2. IF UMBRELLAS OR AWNINGS ARE USED ON THE SITE, THE BOTTOM FLAPS SHALL BE A MINIMUM OF 6'-8" ABOVE THE FINISHED GRADE.
3. ACCESSIBLE TABLES SHALL BE A MINIMUM OF 27" CLEAR KNEE SPACE A.F.F. AND HAVE A CLEAR AREA OF AT LEAST 19" DEEP. TOP OF TABLE SHALL BE 34" A.F.F.
4. COAT HOOKS IN THE TOILET STALLS SHALL BE MOUNTED TO THE BACKSIDES OF DOORS AT 48" A.F.F. IN ACCESSIBLE STALLS AND 60" IN STANDARD STALLS.
5. FLUSH VALVES ON THE TOILETS SHALL ALWAYS BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL. UTILIZE 5 LBS. OF FORCE OR LESS TO OPERATE.
6. ALL PANIC HARDWARE SHALL BE MOUNTED NO HIGHER THAN 46" A.F.F.
7. ALL FLOOR DRAINS IN KITCHEN SHALL BE LOCATED OUT OF PATH OF TRAVEL SO THAT THE FLOOR DOES NOT HAVE A SLOPE GREATER THAN 2 % ALONG AN ACCESSIBLE ROUTE.
8. ALL THRESHOLDS, FLOOR LEVEL CHANGES, AND FLOOR TRANSITIONS SHALL NOT EXCEED 1/2" IN HEIGHT AND SHALL BE BEVELED WITH A SLOPE NO GREATER THE 1:2.
9. ALL LIGHT SWITCHES, VOLUME CONTROLS, AND THERMOSTATS IN PUBLIC AREAS SHALL BE MOUNTED NO HIGHER THAN 48" A.F.F. U.N.O.
10. FOR CLARIFICATION OF REQUIREMENTS OR QUESTIONS, CALL THE ARCHITECT OF RECORD.



Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

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750 OLD HICKORY BLVD. SUITE 2-250
BRENTWOOD, TN 37027
PHONE: 615.377.3111
FAX: 615.377.0978
EMAIL: GENMAIL@EANDHARCH.COM

CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

CONSTRUCTION

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT
3	07/22/2022	DESIGN NOTES
4	11/2/2022	HEALTH COMMENTS

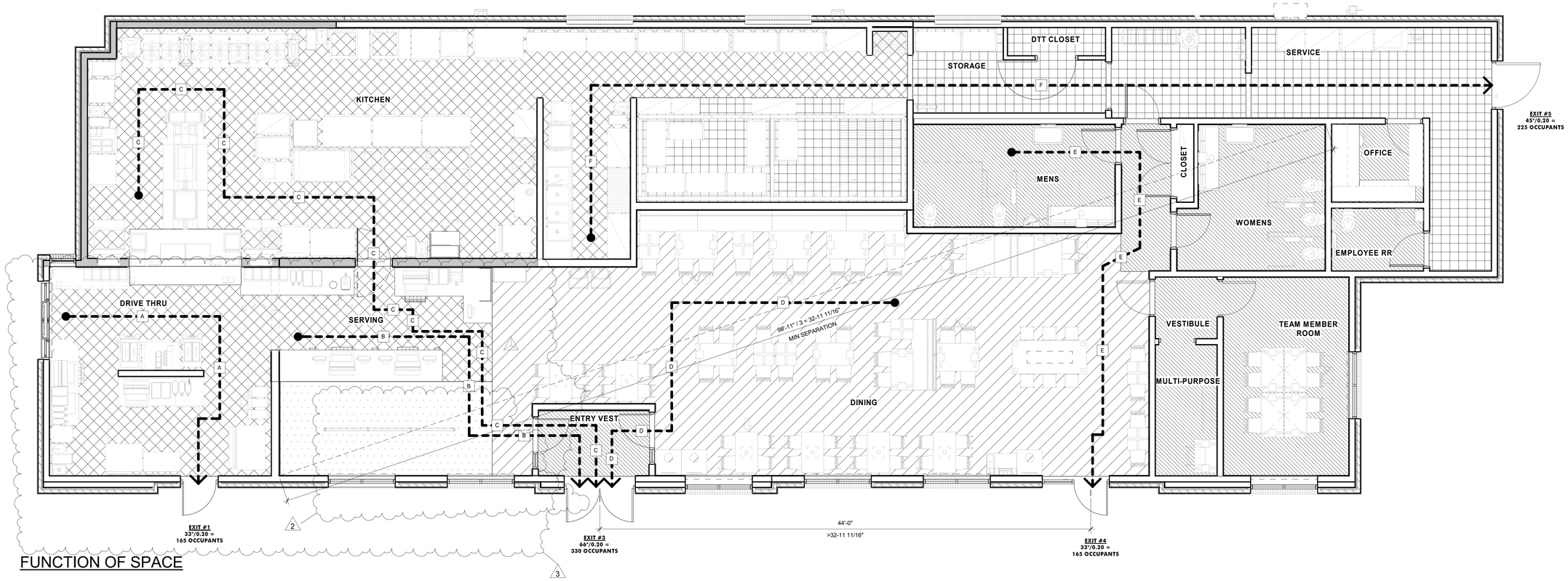
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SHEET
ACCESSIBILITY SHEET

SHEET NUMBER
G-002

11/4/2022 11:54:06 AM
05-LE-04591-G-002-ACCESSIBILITY SHEET



FUNCTION OF SPACE

- ASSEMBLY - STANDING
- ASSEMBLY - UNCONCENTRATED
- BUSINESS
- KITCHEN
- STORAGE

5 LIFE SAFETY PLAN
1/4" = 1'-0"

FIRE CODE NOTES

1. PROVIDE SPRINKLER SYSTEM WHEN REQUIRED BY LOCAL JURISDICTION AND LOCATE RISER AS INDICATED IN ARCH/PLUMB PLANS.
2. PROVIDE HOOD SUPPRESSION SYSTEM AS SHOWN ON MECHANICAL DRAWINGS.
3. PROVIDE FIRE ALARM SYSTEM AS REQUIRED BY CODE OR JURISDICTION.
4. PROVIDE GLASS TYPES AS SHOWN ON ELEVATIONS, DOOR/WINDOW LEGENDS, AND GLAZING SCHEDULE.
5. PROVIDE #10 ABC GENERAL PURPOSE FIRE EXTINGUISHERS THROUGHOUT BUILDING. QUANTITIES AND LOCATIONS PER LOCAL JURISDICTION.
6. PROVIDE CLASS K FIRE EXTINGUISHERS IN KITCHEN AREAS AS REQUIRED BY CODE.

FIRE SPRINKLER

1. PROVIDE A SUPERVISED AUTOMATIC FIRE SPRINKLER SYSTEM WHEN REQUIRED BY INTERNATIONAL BUILDING CODE AND OR LOCAL BUILDING CODE. FIRE SPRINKLER DRAWINGS SHALL BE PREPARED BY FIRE SPRINKLER SUBCONTRACTOR.

BUILDING CODE NOTES

1. PROVIDE FIREBLOCKING WITHIN CONCEALED SPACES PER LOCAL REQUIREMENTS.
2. PROVIDE DRAFTSTOPPING IN ATTIC AS SHOWN ON REFLECTED CEILING PLAN.
3. PROVIDE THERMAL AND SOUND INSULATION WITH FIRE CLASSIFICATIONS AS INDICATED IN SPECS.
4. PROVIDE ROOFING MATERIALS WITH FIRE CLASSIFICATIONS AS INDICATED IN SPECS.
5. PROVIDE CEILING FINISHES WITH FIRE CLASSIFICATIONS AS INDICATED IN SPECS.
6. OCCUPANT LOAD SIGN BY G.C.; PROVIDE 2"X8" BLACK SIGN WITH 1/2" WHITE HELVETICA LETTERS STATING MAXIMUM OCCUPANT LOAD AS INDICATED IN ARCH DRAWINGS.
7. CHICK-FIL-A IS REQUIRING SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.

PLUMBING FIXTURE COUNTS

TOTAL BUILDING OCCUPANT LOAD:	154
LOAD DISTRIBUTION:	50% MALE AND 50% FEMALE
DISTRIBUTION COUNT:	77 MALE AND 77 FEMALE
LAVATORIES PROVIDED REQUIRED (PER TABLE 7.21.1 NSPC):	
MALE LAVATORIES:	51-100 = 2
FEMALE LAVATORIES:	51-100 = 2
LAVATORIES PROVIDED:	
MALE LAVATORIES:	2
FEMALE LAVATORIES:	2
WATER CLOSETS REQUIRED (PER TABLE 7.21.1 NSPC):	
MALE WATER CLOSETS:	51-100 = 2
FEMALE WATER CLOSETS:	51-100 = 2
WATER CLOSETS PROVIDED:	
MALE WATER CLOSETS:	2 WATER CLOSETS 1 URINALS
FEMALE WATER CLOSETS:	3 WATER CLOSETS

EGRESS

1. REQUIRED WIDTH OF EGRESS
   Occupant Load x 0.15 = **22.95"** REQUIRED
2. WIDTH OF EGRESS PROVIDED

EXIT #1 =	**33" (STAFF ONLY)**
EXIT #2 =	**REMOVED**
EXIT #3 =	**66"**
EXIT #4 =	**33"**
EXIT #5 =	**45" (STAFF ONLY)**
TOTAL:	**177" TOTAL**

EGRESS PATH

EGRESS PATH	EGRESS DISTANCE
A	30'-9"
B	86'-6"
C	86'-2"
D	41'-10"
E	44'-6"
F	94'-5"

MAX DISTANCE OF TRAVEL (IBC):
200'-0" (250'-0" SPRINKLERED)

CODE SUMMARY

1.	OCCUPANCY	**A2**
2.	CONSTRUCTION TYPE	**VB**
3.	SPRINKLERED	**YES**
4.	ALLOWABLE AREA	**6000 SF**
	ACTUAL AREA (FOOTPRINT)	**5256 SF**
	FIRE AREA	**4868 SF**
5.	ALLOWABLE HEIGHT	**40'-0"**
	ACTUAL HEIGHT	**21'-1/2"**

OCCUPANT LOAD (LE LRG)

Name	Area	Load Factor	Occupants
ASSEMBLY - STANDING	162 SF	5 SF	33
ASSEMBLY - UNCONCENTRATED	1220 SF	15 SF	82
BUSINESS	872 SF	100 SF	12
KITCHEN	1732 SF	200 SF	9
STORAGE	717 SF	300 SF	4
TOTAL	4703 SF		140
OUTDOOR SEATING:			14
TOTAL OCCUPANT LOAD (PLUMBING):			154

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

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CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

CONSTRUCTION

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT
2	06/21/2022	CODE COMMENTS
3	07/22/2022	DESIGN NOTES

CONSULTANT PROJECT #	04591
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SHEET
LIFE SAFETY PLAN

SHEET NUMBER
G-003

10/10/2022 2:52:16 PM
05-LE-04591-G-003-LIFE SAFETY PLAN

NATIONAL ACCOUNTS

PRODUCT	CSI DIVISION	VENDOR	CONTACT	PHONE	EXT	EMAIL	REMARKS
TERMITE TREATMENT	C02-361	RENTOKIL	JERRY EMMERTON	704-293-1703		JERRY.EMMERTON@RENTOKIL.COM	
IRRIGATION	C02-810	RAINBIRD	DONN MANN	520-904-1146		DMANN@RAINBIRD.COM	
BRICK	C04-810	ACME	MIKE HARBISON	706-984-1446		MHARBISON@BRICK.COM	PLANT LOCATED IN AUSTIN, TX
BRICK	C04-810	GENERAL SHALE	DAVID GILMORE	630-962-4000		DAVID.GILMORE@GENERALSHALE.COM	
BRICK	C04-810	HC MUDDOX	DON SACKETT	720-323-5536		DON.SACKETT@INTERSTATEBRICK.COM	PLANT LOCATED IN SACRAMENTO, CA
BRICK	C04-810	MERIDIAN	JAKE BRADFOR	404-694-8538		JAKE.BRADFOR@MERIDIANBRICK.COM	PLANT LOCATED IN BESSEMER, AL
BRICK	C04-810	MUTUAL MATERIALS	GARY ZAGELOW	800-477-7137		GZAGELOW@MUTUALMATERIALS.COM	PLANT LOCATED IN SPOKAN, WA
BRICK	C04-810	REDLAND BRICK	LUKE OLIVER	412-828-3956		LUKE.OLIVER@GLENGERY.COM	PLANT LOCATED IN PITTSBURG, PA
EXTERIOR METAL	C05-050	EXCEPTIONAL METALS	CHRISTY SHORKEY	866-735-8824	EXT 1095	CSHORKEY@DURO-LAST.COM	METAL PARAPET COPING, FASCIA & SOFFIT AT ROOF TOWER
STRUCTURAL FRAMING	C06-170	RED BUILT	DAVID THOMPSON	877-371-0448		DTHOMPSON@REDBUILT.COM	
WOOD (DECORATIVE)	C06-200	SKYLAR MORGAN	STEPHANIE MORGAN	404-565-0537	EXT. 111	CFAORDERS@SKYLARMORGANFURNITURE.COM	
MILLWORK	C06-220	CLAYTON FIXTURE (CFX)	JASON MOORE	404-460-8043		JASON.MOORE@ACCESSCFA.COM	FOR ASSISTANCE WITH DRAWINGS: ERIC CRANE (404) 684-8781 ALL REGIONS EXCEPT WEST
MILLWORK	C06-220	FCC	MICHELLE GANSKO	800-322-7328	EXT 235	MICHELLE.GANSKO@FCCFURN.COM	WEST REGION
WOOD (WAINSCOTING)	C06-220	CLAYTON FIXTURE (CFX)	JASON MOORE	404-460-8043		JASON.MOORE@ACCESSCFA.COM	FOR ASSISTANCE WITH DRAWINGS: ERIC CRANE (404) 684-8781 NORTHEAST, SOUTHEAST, AND ATLANTIC REGIONS
WOOD (WAINSCOTING)	C06-220	FCC	MICHELLE GANSKO	800-322-7328	EXT 235	MICHELLE.GANSKO@FCCFURN.COM	WEST, SOUTHWEST, AND MIDWEST REGIONS
ROOFING (SINGLE PLY/METAL TRIM)	C07-530	DUROLAST	CHRISTY SHORKEY	866-735-8824	EXT 1095	CSHORKEY@DURO-LAST.COM	
EQUIPMENT STANDS (ROOFTOP)	C07-720	AVCOA	STEVE GILINSON	954-584-6001		STEVE@AVCOAUSA.COM	
FRP FLUSH / CAGE DOORS	C08-110	SPECIAL-LITE W/ ZIGMAN PRODUCTS	RICK ZIEGLER	770-231-8350		ZIGMANPRODUCTS@YAHOO.COM	
STOREFRONT	C08-411	KAWNEER	NORRIS MCELROY	770-235-0240		NORRIS.MCELROY@ARCONIC.COM	ALL REGIONS
STOREFRONT	C08-411	YKK	JAMILLA WALCOTT	678-838-6035		JAMILLAWALCOTT@YKKAP.COM	ALL REGIONS
DRIVE-THRU DOOR	C08-460	TORMAX	DESHARA SOTO	210-494-3551		DSOTO@TORMAXUSA.COM	
DRIVE-THRU WINDOW	C08-580	QUIK SERV	WADE ARNOLD	713-849-5882		WARNOLD@QUIKSERV.COM	
DOORS AND HARDWARE	C08-710	DH PACE	CHARLES GIRTMAN	816-221-0543		CHICKFILADOORS@DHPACE.COM	RE: HARDWARE NOTES ON A-800 - MIDWEST, ATLANTIC, NORTHEAST REGIONS
DOORS AND HARDWARE	C08-710	LOCKNET	ROB OWEN	606-748-2065		ROBO@LOCKNET.COM	RE: HARDWARE NOTES ON A-800 - WEST, SOUTHWEST, SOUTHEAST REGIONS
GROUT	C09-310	CREATIVE MATERIALS CORPORATION	CRAIG LANSLEY	518-713-5372		CLANSLEY@CREATIVEMATERIALSCORP.COM	ALL REGIONS EXCEPT WEST
GROUT	C09-310	DALTILE	TERRIE MILLER	216-409-3153		TERRIE.MILLER@DALTILE.COM	WEST REGION ONLY
TILE	C09-310	CREATIVE MATERIALS CORPORATION	CRAIG LANSLEY	518-713-5372		CLANSLEY@CREATIVEMATERIALSCORP.COM	ALL REGIONS EXCEPT WEST
TILE	C09-310	DALTILE	TERRIE MILLER	216-409-3153		TERRIE.MILLER@DALTILE.COM	WEST REGION ONLY
FLOORING (PLAYGROUND)	C09-330	PROJECT INNOVATIONS, INC.	PETE GRIFFIN	727-938-4422		PROJECT.INNOVATIONSPG@GMAIL.COM	ORDER THROUGH SOFT PLAY
FLOORING (PLAYGROUND)	C09-330	THE PLAYGROUND GUYS	ROB PARENT	772-463-0770		THEPGGUYS@AOL.COM	ORDER THROUGH SOFT PLAY
FRP PANELS (PLAYGROUND)	C09-330	KOROGARD	MARTHA SMITH	404-771-6773		MSMITH@KOROSEAL.COM	
CEILING TILE/GRID	C09-510	CERTAINTEED CORPORATION	BERNIE SHALVEY	704-779-7337		BERNARD.G.SHALVEY@SAINT-GOBAIN.COM	
FRP PANELS (KITCHEN)	C09-770	MARLITE	ANITA CRAIG	330-260-7621		ACRAIG@MARLITE.COM	
PAINT (INTERIOR)	C09-910	SHERWIN WILLIAMS	MATTHEW HEALD	404-323-2263		MATTHEW.J.HEALD@SHERWIN.COM	
CORNER GUARDS	C10-265	KOROGARD	MARTHA SMITH	404-771-6773		MSMITH@KOROSEAL.COM	
EXTERIOR SIGNS	C10-420	ANCHOR SIGN	JOSHUA MUCKELYANEY	843-576-3275		JMUCKELVANEY@ANCHORSIGN.COM	
EXTERIOR SIGNS	C10-420	CHANDLER SIGNS	KRISTEN HAMILTON	678-725-8852		KHAMILTON@CHANDLERSIGNS.COM	SOUTHWEST REGION
EXTERIOR SIGNS	C10-420	CLAYTON SIGNS	TODD WILLIS	404-361-3800	EXT. 426	TODDWILLIS@CLAYTONSIGNS.COM	
EXTERIOR SIGNS	C10-420	NATIONAL SIGN & MARKETING	STEVE ROSENBLOOM	909-287-7369		SROSENBLOOM@NSMC.COM	WEST REGION
BUILDING CANOPY	C10-440	AWNEX INC.	TREY HERNDON	770-704-7140	EXT. 113	TREY@AWNEXINC.COM	MIDWEST AND NORTH EAST REGION
BUILDING CANOPY	C10-440	CHANDLER SIGNS	KRISTEN HAMILTON	678-725-8852		KHAMILTON@CHANDLERSIGNS.COM	SOUTHWEST REGION
BUILDING CANOPY	C10-440	NATIONAL SIGN & MARKETING	STEVE ROSENBLOOM	909-287-7369		SROSENBLOOM@NSMC.COM	WEST REGION
BUILDING CANOPY	C10-440	UNISTRUCTURES, INC.	CAROLYN WARD	678-974-1595		CHICKFILA@UNISTRUCTURES.COM	SOUTHEAST AND ATLANTIC REGION
DRIVE-THRU ORDER AREA CANOPY (FABRIC)	C10-440	SUPERIOR INNOVATION, INC.	BRUCE BARKER	615-410-5463		BRUCE.BARKER@SIIBRANDS.COM	ARID CLIMATES ONLY
DRIVE-THRU ORDER AREA CANOPY (METAL)	C10-440	FASHION, INC.	ALLEN BELL	785-418-4656		ABELL@FASHIONINC.COM	NORTHEAST, ATLANTIC, AND SOUTHEAST REGIONS
DRIVE-THRU ORDER AREA CANOPY (METAL)	C10-440	LANE SUPPLY, INC	LARRY TOLBERT	704-545-7615		LTOLBERT@LANESUPPLYINC.COM	WEST, MIDWEST, AND SOUTHWEST REGIONS
FANS	C10-440	TOM BARROW COMPANY/ TPI	SCOTT GEORGE	404-351-1010		SGEORGE@TOMBARROW.COM	
HEATERS	C10-440	BROMIC HEATING	BLAKE RUSSIE	858-381-4850		BLAKER@BROMIC.COM	
HEATERS	C10-440	TOM BARROW COMPANY/SCHWANK	SCOTT GEORGE	404-351-1010		SGEORGE@TOMBARROW.COM	
ORDER POINT & CLEARANCE BAR	C10-440	CHANDLER SIGNS	KRISTEN HAMILTON	678-725-8852		KHAMILTON@CHANDLERSIGNS.COM	SOUTHWEST REGION
ORDER POINT & CLEARANCE BAR	C10-440	UNISTRUCTURES, INC.	CAROLYN WARD	678-974-1595		CHICKFILA@UNISTRUCTURES.COM	
WALL PARTITIONS (BATH)	C10-810	CLAYTON FIXTURE (CFX)	STEVE SAMUELSON	404-684-8783		CHICKFILA@CLAYTONFIXTURE.COM	FOR ASSISTANCE WITH DRAWINGS: ERIC CRANE (404) 684-8781
WALL PARTITIONS (BATH)	C10-810	DH PACE	CHARLES GIRTMAN	816-221-0543		CHICKFILADOORS@DHPACE.COM	
WALL PARTITIONS (BATH)	C10-810	FCC	MICHELLE GANSKO	800-322-7328	EXT 235	MICHELLE.GANSKO@FCCFURN.COM	
WALL PARTITIONS (BATH)	C10-810	LOCKNET	ROB OWEN	606-748-2065		ROBO@LOCKNET.COM	
PLAYGROUND EQUIPMENT	C10-900	SOFT PLAY	NED O'BRIEN	678-966-9141		N.OBRIEN@COMCAST.NET	ALL REGIONS
EQUIPMENT (KITCHEN)	C11-000	STRATEGIC / TRIMARK	MITCH WELCH	404-765-8985	EXT. 3700	MWELCH@STRATEGICEQUIPMENT.COM	
POS SYSTEMS	C11-020	CHICK-FIL-A IT	SCOTT SKIPPER	404-684-8524			
POS WIRING AND SECURITY	C11-020	STAR ASSET SECURITY	ASHLEY HICKMAN	877-801-1616		CFATEAM@SECURETHINKING.COM	
POS WIRING AND SECURITY	C11-020	STRONG SECURITY	CHRIS VERCH	678-372-5949		CHRIS.VERCH@STRONGSYSTEM.COM	
ROLLER SHADES	C12-500	BB COMMERCIAL	ANGELA CARSWELL	949-404-1140		ANGELA.CARSWELL@GOHFC.COM	
ROLLER SHADES	C12-500	CWC GROUP	RICHARD PELL	366-413-0394		RPELL@COMMERCIALWINDOWCOVERING.COM	
ROLLER SHADES	C12-500	ROLLASHADE	DEANNA MCCOY	951-245-5077	EXT. 116	DEANNA.MCCOY@ROLLASHADE.COM	ADDITIONAL EMAIL : OFFICE@ROLLASHADE.COM
INTERIOR SEATING/ DECOR	C12-540	CHARTER HOUSE INNOVATIONS (CHI)	JULIA WOODWARD	404-784-2960		JULIA.WOODWARD@CHARTER-HOUSE.COM	SOUTHEAST, SOUTHWEST, MIDWEST, ATLANTIC, AND NORTHEAST REGIONS (EXCLUDING DEX COUNTERS)
INTERIOR SEATING/ DECOR	C12-540	FCC COMMERCIAL FURNITURE	MICHELLE GANSKO	800-322-7328	EXT 235	MICHELLE.GANSKO@FCCFURN.COM	WEST REGION (EXCLUDING DEX COUNTERS)
DEX TABLES & COUNTERS (WHEN REQD.)	C12-560	DEX INDUSTRIES	SHANNON PHILLIPS	404-753-0600		CUSTOMERSERVICE@DEXINDUSTRIES.COM	
EXTERIOR SEATING/ UMBRELLAS	C12-570	STRATEGIC / TRIMARK	HAYLEY BOYD	229-903-3678		HAYLEY.BOYD@TRIMARKUSA.COM	
MESSAGING (INTERIOR)	C12-610	CHARTER HOUSE INTERNATIONAL (CHI)	JULIA WOODWARD	404-784-2960		JULIA.WOODWARD@CHARTER-HOUSE.COM	SOUTHEAST, SOUTHWEST, MIDWEST, ATLANTIC, AND NORTHEAST REGIONS
MESSAGING (INTERIOR)	C12-610	FCC COMMERCIAL FURNITURE	MICHELLE GANSKO	800-322-7328	EXT 235	MICHELLE.GANSKO@FCCFURN.COM	WEST REGION
STEEL WALL FABRICATION	C12-610	CHARTER HOUSE INTERNATIONAL (CHI)	JULIA WOODWARD	404-784-2960		JULIA.WOODWARD@CHARTER-HOUSE.COM	SOUTHEAST, SOUTHWEST, MIDWEST, ATLANTIC, AND NORTHEAST REGIONS
STEEL WALL FABRICATION	C12-610	FCC COMMERCIAL FURNITURE	MICHELLE GANSKO	800-322-7328	EXT 235	MICHELLE.GANSKO@FCCFURN.COM	WEST REGION
PLUMBING (RESTROOM FIXTURES)	C15-100	HJC DIST. (TOTO, USA)	BARRY BRYANT	800-459-7099		BARRY.BRYANT@HJINC.COM	TOTO VALVES & FIXTURES
MOP SINK GRATE & TRIM	C15-405	LOWTEMP	ANGIE NORRIS	770-478-8803		ANORRIS@LOWTEMPIND.COM	
AIR DOORS	C15-715	TOM BARROW COMPANY	SCOTT GEORGE	404-351-1010		SGEORGE@TOMBARROW.COM	
HVAC EQUIPMENT	C15-730	TRANE NATIONAL ACCOUNTS	ISAAC LOCKETT	866-986-4822		CFA@TRANE.COM	
AIR DEVICES	C15-836	TOM BARROW COMPANY	SCOTT GEORGE	404-351-1010		SGEORGE@TOMBARROW.COM	
FANS & CURBS (EXHAUST)	C15-836	TOM BARROW COMPANY	SCOTT GEORGE	404-351-1010		SGEORGE@TOMBARROW.COM	
HOODS & PIN & SLEEVE BOXES	C15-836	HALTON USA	PHIL MEREDITH	800-442-5866		PHIL.MEREDITH@HALTON.COM	
JER-AIR START COLLARS	C15-836	TOM BARROW COMPANY	SCOTT GEORGE	404-351-1010		SGEORGE@TOMBARROW.COM	
CONTROLS	C16-200	SUNCOAST ENVIRONMENTAL	JASON COX	877-544-6679		SECONTROLS@AOL.COM	
PANELBOARDS	C16-200	ACCUSERV	BOB HARPRING	877-707-7378		BHARPRING@ACCU-SERV.COM	SOUTHEAST, ATLANTIC, & NORTHEAST REGIONS
PANELBOARDS	C16-200	VILLA LIGHTING	DAVE CHRISTANELL	314-633-0424		DAVE.CHRISTANELL@VILLALIGHTING.COM	MIDWEST, SOUTHWEST, & WEST REGIONS
LIGHTING	C16-500	ACCUSERV	BOB HARPRING	502-961-0096		BHARPRING@ACCU-SERV.COM	SOUTHEAST & ATLANTIC REGIONS
LIGHTING	C16-500	VILLA LIGHTING	DAVE CHRISTANELL	314-633-0424		DAVE.CHRISTANELL@VILLALIGHTING.COM	MIDWEST, NORTHEAST, SOUTHWEST, & WEST REGIONS

RESPONSIBILITY SCHEDULE

DESCRIPTION	DOES NOT APPLY	EXST. TO REMAIN	GC FURN.	GC INSTALL	GC DELIVER/ ASSEMBLE/ LOCATE	OWNER FURN.	OWNER INSTALL	LANDLORD FURN.	LANDLORD INSTALL	LANDLORD DELIVER/ ASSEMBLE/ LOCATE	COMMENTS
FIELD ENGINEERING			O	O	O						
PROJECT PROCEDURES, PROJECT CLOSEOUT			O	O	O						
TEMPORARY POWER / FACILITIES,SERVICES AND CONTROLS			O	O	O						
TEMPORARY BARRICADES			O	O	O						
PERMITS/INSPECTIONS			O	O	O						
PROTECTION OF SITE WORK AND ADJACENT CONSTRUCTION			O	O	O						
UNLOADING OF ALL OWNER SUPPLIED ITEMS					O						
DISPOSAL OF CRATING / PACKING MATERIALS					O						
DEMOLITION WORK			O	O	O						
FLOOR & ROOF PENETRATIONS			O	O	O						
CONCRETE			O	O	O						MAKE SLAB LEVEL, SMOOTH & READY TO ACCEPT INTERIOR FLOOR FIN.
MASONRY			O	O	O						
GRANITE/STONE			O	O	O						
STRUCTURAL FRAMING SYSTEMS/ SUPPORTS			O	O	O						
COURTESY ROOF FRAMING INSPECTION			O								CONTACT REP IN NAT. ACCOUNT SCHED - SEE FRAMING PLAN FOR ADDITIONAL INFO
ROOFING MATERIALS (MEMBRANE, FLASHING, SEALANT, ETC.)			O	O	O						INCLUDES SNOW GUARDS ON METAL ROOFS, WHERE REQUIRED REGIONALLY
STAIRS - COMPLETE SYSTEM (HANDRAILS, NOSING STRIPS ETC.)			O	O	O						
PATIO RAILINGS, TRELLAGE, & RETAINING WALLS			O	O	O						
PATIO TABLES, CHAIRS, UMBRELLAS						O	O				
ROUGH CARPENTRY & ALL BLOCKING			O	O	O						
MILLWORK - CABINETS						O	O				
INSULATION, FIRESTOPPING, SEALANT & BACKER ROD			O	O	O						
VAPOR / AIR BARRIERS / FLASHING			O	O	O						AS REQUIRED
WATERPROOF MEMBRANE			O	O	O						INCL. FLOOR PREP & SEALING. PROVIDE MOISTURE TESTS AT SLAB AS REQ'D. BY FLOORING MANUF. SPECS. TO ENSURE NEW FLOORING IS INSTALLED AS REQ'D.
ELIASON DOOR, DOOR FRAME & HARDWARE			O	O	O						GC TO PLACE ORDER THROUGH DOOR VENDOR LISTED IN NATIONAL ACCOUNTS SCHED.
SPECIALTY DOOR, DOOR FRAME & HARDWARE & SEALS			O	O	O						INCL. REAR KITCHEN DOORS, HARDWARE PROVIDED BY GC. SEE DOOR SCHEDULE
DOORS, DOOR FRAMES, TRIM & HARDWARE & SEALS			O	O	O						SEE NOTE #8
ACCESS PANELS			O	O	O						
STOREFRONT & GLAZING			O	O	O						INCLUDES STOREFRONT ENTRY DOORS & ANY SOLAR SUNSHADE DEVICES
GLASS			O	O	O						
CABINET HARDWARE & ACCESSORIES						O	O				
GYPSUM BOARD ASSEMBLIES			O	O	O						INCLUDES PREPARATION & REPAIR TO DAMAGED WALLS
METAL STUD/GYP BD (INTERIOR)			O	O	O						
PLAYGROUND EQUIPMENT						O	O				
FURNITURE						O	O				GC TO CORE DRILL FOR FURNITURE
DEX TABLES & COUNTERS (WHEN REQ'D.)			O	O	O						PROVIDED BY DEX, ORDERED BY GC. REFER TO PLANS
CEILINGS, SOFFITS, CEILING TILE & GRID			O	O	O						INCLUDES CEILING PREPARATION & SEALING.
PREFABRICATED LAMINATED SOFFITS						O	O				BY SIGN VENDOR, ELECTRICAL TO HOOK-UP (CONNECTION ONLY)
PAINTING			O	O	O						INCLUDES WALL PREPARATION & SEALING.
STAINED / INTEGRAL COLOR CONCRETE & SEALERS			O	O	O						INCLUDES FLOOR PREPARATION & SEALING.
MILLWORK CURBS				O	O						INCLUDES FLOOR PREPARATION & SEALING.
FLOOR TILE & TRIM			O	O	O						INCLUDES FLOOR PREPARATION & SEALING. SEE FINISH PLANS FOR LOCATIONS
TILE, VINYL & WOOD WALL BASES			O	O	O						INCLUDES INSTALLATION OF INTEGRATED OWNER SIGNAGE/GRAPHICS
WALL TILE & TRIM			O	O	O						COORDINATE WITH OWNER FOR PRICING PRIOR TO ORDERING
TILED LOW WALLS			O	O	O						
ALL TILE SETTING MATERIALS, GROUT & ACCESSORIES			O	O	O						GC TO ORDER THRU NA VENDOR
FLOOR TRANSITION STRIPS			O	O	O						
STAINLESS STEEL PANELS & TRIM			O	O	O						INCLUDES WALL PREPARATION & SEALING.
STAINLESS STEEL CORNER GUARDS			O	O	O						INCLUDES ADHESIVES AND/OR MECHANICAL FASTENERS
FRP & TRIM			O	O	O						INCLUDES WALL PREPARATION & SEALING.
WAINSCOT & TRIM (INCLUDES SOLID SURFACE WINDOW SILL)				O	O	O					G.C. TO ORDER MATERIAL FROM CLAYTON FIXTURE. INCLUDES WALL PREP. & SEALING.
WHITE WOOD BOARDS			O	O	O						GC TO ORDER DIRECTLY FROM SKYLAR MORGAN
TRASH DUMPSTERS						O	O				OPERATOR TO COORDINATE WITH LOCAL AUTHORITIES
WOOD COUNTERTOP, SHELVING, & LAMINATE						O	O				MILLWORKER TO STAIN & SEAL AS REQUIRED
SOLID SURFACE COUNTERTOP						O	O				
COMPUTER EQUIPMENT/SYSTEM						O	O				
CABINETS & DISPLAY CASES						O	O				
CAULKING CABINETS & MILLWORK						O	O				
SETTING / LEVELING OF CABINETS & MILLWORK						O	O				
SHELVING						O	O				
LOCKERS						O	O				
DECORATIVE MIRRORS						O	O				
INTERIOR SIGNAGE						O	O				
INTERIOR MENUBOARD						O	O				INSTALLED BY STRATEGIC EQUIPMENT
INTERIOR GRAPHICS / ART WORK						O	O				SEE TILED LOW WALLS
EXTERIOR SIGNAGE						O	O				BY SIGN VENDOR, UNDER SEPARATE PERMIT, ELECT. TO HOOK-UP(CONNECTION ONLY)
EXTERIOR MENU BOARDS/ ORDER POINT						O	O				BY SIGN VENDOR, UNDER SEPARATE PERMIT, ELECT. TO HOOK-UP(CONNECTION ONLY)
EXTERIOR CANOPIES & ATTACHMENT ACCESSORIES						O	O				BY SIGN VENDOR, ELECTRICAL TO HOOK-UP (CONNECTION ONLY)
EXTERIOR WALL ASSEMBLY			O	O	O						
EXTERIOR FINISHES			O	O	O						
ANSUL SYSTEM						O	O				
GREASE INTERCEPTOR			O	O	O						
3-COMPARTMENT SINK AND/OR 4-COMPARTMENT SINK						O	O				CONNECTIONS AND HOOK-UP BY G.C.
HAND SINKS						O	O				CONNECTIONS AND HOOK-UP BY G.C.
MOP BASIN			O	O	O						
HOT WATER HEATER			O	O	O						
KITCHEN HOOD W/ LIGHTS & FILTERS				O	O	O					
ALL KITCHEN/OTHER EQUIPMENT NOT LISTED ON SCHEDULE.				O		O					INSTALL PER DWGS. CONFIRM DELIVERY DATES WITH OWNER
FIRE EXTINGUISHERS			O	O	O						G.C. TO COORD. W/ FIRE MARSHAL COMPLY WITH LOCAL CODE REQU.
AIR CURTAIN			O	O	O						G.C. TO PURCHASE THRU VENDOR
WATER FILTRATION				O	O	O					
WINDOW TREATMENTS			O	O	O						G.C. TO PURCHASE THRU VENDOR
HVAC UNITS			O	O	O						
MAKE UP AIR UNIT			O	O	O						
HVAC DISTRIBUTION / GRILLES, DIFFUSERS & EXTERIOR LOUVERS			O	O	O						
ALL HVAC, INCLUDING BALANCING			O	O	O						PRIOR TO OWNER ACCEPTING OF SPACE FROM GC
ALL GAS			O	O	O						
ALL PLUMBING INCLUDING SEWER			O	O	O						COORDINATE PLBG. HOOK-UP LOCATION WITH UTILITY PROVIDER
WATER SUPPLY DISTRIBUTION			O	O	O						COORDINATE WATER METER REQUIREMENTS WITH UTILITY PROVIDER
SANITARY VENTS			O	O	O						
UTILITIES TO ROOF / BASEMENT			O	O	O						
SPRINKLER SYSTEM DISTRIBUTION INC. DESIGN, HEADS & ACCS.			O	O	O						G.C. TO COORDINATE W/ FIRE SPRINKLER SUB.
WIRING, CONDUIT & J-BOXES FOR FIXTURES & EQUIPMENT			O	O	O						
SERVICE/MAIN/ SUB-PANELS/ TRANSFORMERS			O	O	O						
ADD'L SUB-PANELS DISTR. J-BOXES, WIRING, CONDUIT&OUTLETS			O	O	O						
EXIT SIGN WIRING CONDUIT & TIME CLOCKS			O	O	O						
WIRING, CONDUIT & J-BOX FOR INT. LIGHTING, AND TIMERS			O	O	O						
INTERIOR GENERAL LIGHTING W/LAMPS			O	O	O						
INTERIOR ACCENT LIGHTING W/ LAMPS			O	O	O						COORD. W/ OWNER
EXIT & EMERGENCY LIGHTING			O	O	O						
EXTERIOR LIGHTING			O	O	O						
POWER REQUIREMENTS FOR MECH. EQUIPMENT			O	O	O						
TELEPHONE SERVICE CONDUIT STUB			O	O	O						
ALL PHONE, DATA & SECURITY EQUIPMENT						O	O				
ALL PHONE, DATA & SECURITY WIRING, COVERPLATES						O	O				COORD. W/ OWNER
ALL PHONE, DATA & SECURITY CONDUIT, J-BOXES			O	O	O						
FIRE ALARM SYSTEM						O	O				PAY FOR AND SET UP INITIAL TESTING FOR THE INSPECTOR, UNDER SEPARATE PERMIT.
RESTROOM PLUMBING FIXTURES AND ACCESSORIES			O	O	O	O					SEE RESTROOM SCHEDULE

RESPONSIBILITY NOTES

1. THE RESPONSIBILITY SCHEDULE IS A GENERAL LIST FOR REFERENCE ONLY. ALL ITEMS NOT LISTED OR OTHERWISE NOTED SHALL BE PROVIDED, INSTALLED, DELIVERED, AND ASSEMBLED BY THE G.C.
2. G.C. TO COORDINATE DELIVERY SCHEDULE AND INSTALLATION OF ALL OWNER SUPPLIED ITEMS WITH OWNER/ OWNER'S REP.
3. ALL INSTALLATION AND FINAL HOOK-UP OF EQUIPMENT/ MATERIALS BY G.C. UNLESS OTHERWISE NOTED.
4. G.C. TO REMOVE ALL EQUIPMENT AND MATERIALS BY OWNER FROM TRUCK, PLACE ON SITE AND HOOK-UP, TYP UNLESS OTHERWISE NOTED.
5. G.C. TO COORDINATE LOCATION OF ALL RECEPTACLE, SWITCH, OTHER HEIGHTS WITH COUNTER AND EQUIPMENT HEIGHTS.
6. G.C. TO COORDINATE ALL FACE PLATES, RECEPTACLE COVERS, CEILING PLATES, DIFFUSERS, ETC TO MATCH THE FINAL WALL COLOR AS CLOSELY AS POSSIBLE, U.N.O.
7. G.C. TO PROVIDE ALL CONNECTIONS TO ALL EQUIPMENT, POWER, GAS, WATER, WASTE, ETC.
8. ALL HARDWARE IS PROVIDED BY THE DOOR VENDOR LISTED IN THE NATIONAL ACCOUNTS SCHEDULE, EXCLUDING THE HARDWARE FOR THE FOLLOWING DOORS: EXTERIOR STOREFRONTS, PLAY AREA DOOR, AND BOTH THE EXTERIOR AND INTERIOR SERVICE YARD DOORS.
9. G.C. TO INSTALL OWNER FURNISHED EQUIPMENT SUCH AS SMALL-WARES, MOP RACKS, KNIFE HOLDERS, ETC. COORDINATE LOCATION WITH CONSTRUCTION CONSULTANT AND OPERATOR.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

STEPHEN L. COOPER
ARCHITECT
750 OLD HICKORY BLVD. SUITE 250
BRENTWOOD, TN 37027
PHONE: 615.377.3111
FAX: 615.377.0978
EMAIL: GENMAIL@EANDHARCH.COM

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT
1	03/29/2022	DESIGN NOTES

CONSTRUCTION

CONSULTANT PROJECT # 04591
PRINTED FOR CONSTRUCTION
DATE 1/26/22
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SHEET
RESPONSIBILITY AND NATIONAL ACCOUNTS SCHEDULE
SHEET NUMBER
G-004

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4/19/2022 10:48:12 AM
05-LE-04591-G-004-RESPONSIBILITY AND NATIONAL ACCOUNTS SCHEDULE

REVISION NUMBER	REVISION DATE	ISSUE DESCRIPTION	CHANGE DESCRIPTION	
1	3/29/22	DESIGN NOTES	1. THE PARAPETS WERE RAISED TO HIDE THE TRANE RTU'S. 2. THE TOTAL OCCUPANT LOAD WAS REVISED TO INCLUDE THE PATIO SEATING. 3. VENDOR CONTACTS UPDATED FOR TRANE UNITS AND BROMIC HEATER. 4. LANDLORD NOTES WERE ADDED TO THE COVER SHEET AND THE ROOF PLAN.	G-000, G-003, G-004, A-105, A-230, A-301, A-401
2	6/21/22	CODE COMMENTS	1. EGRESS PATH "C" WAS REMOVED FROM THE LIFE SAFETY PLAN (G-003) PER FIRE INSPECTOR COMMENT. IT WAS REROUTED TO EXIT DOOR #2 AND COMBINED WITH ROUTE "B".	G-003
3	7/22/22	DESIGN NOTES	1. INCORPORATING DESIGN NOTES LISTED IN THE SCHEDULE TO THE RIGHT UNDER REVISION #3. 2. INCORPORATING THE EXPANDED COCKPIT DESIGN NOTE. THE WALL BETWEEN THE DRIVE-THRU AND THE SERVING/ORDER AREAS PUSHES PLAN RIGHT REDUCING THE SIZE OF THE SERVING/ORDER AREA AND EXPANDING THE DRIVE-THRU AREA. 3. DOOR #23 AT THE ORDER AREA WAS REMOVED. DOOR #21 WAS REVERSED AND FLIPPED IN THE DIRECTION OF EGRESS TRAVEL SO THAT THE MAIN ENTRY DOORS #20 CAN COUNT AS AN EXIT. 4. A THIRD PANEL D3 WAS ADDED TO THE BACK OF HOUSE/SERVICE AREA. 5. BRICK ROWLOCK AND SOLDIER BANDING CLARIFIED ON ELEVATIONS B1 AND D3 TO MATCH OTHER ELEVATIONS. 6. RESTROOM EQUIPMENT SCHEDULE QUANTITIES CLARIFIED. 7. REVISIONS HAVE BEEN MADE TO THE STRUCTURAL DRAWINGS BASED ON THE REDBUILT ROOF TRUSS SHOP DRAWING REVIEW: - COORDINATED SIZE AND LOCATION OF FREEZER SLAB: S-201 - REVISED HEADER LOCATION AT DRIVE-THRU ON GRID 4: S-231 - REVISED NOTE 7 OF ROOF FRAMING NOTES FOR RED BUILT: S-231 - REVISED D2 TO SHOW INTERIOR 2X WALL AT MOP SINK: S-300 - DELETED A4 (NO LONGER USED): S-403	G-001, G-002, G-003, A-105, A-201, A-211, A-221, A-301, A-601, A-611, A-621, A-701, A-801, S-201, S-211, S-231, S-241, S-300, S-403, M-201, FP1.1, FP2.2, P-101, P-201, P-211, P-221, P-301, P-302, P-303, P-901, E-002, E-211, E-221, E-301, E-302, E-303, E-501, E-502, K-201, K-211, K-212, K-601, K-603, K-611, K-801, K-802, F-201, F-211, F-701, F-702
4	11/2/22	HEALTH COMMENTS	1. A HAND SINK WAS ADDED TO BOTH THE MAIN KITCHEN AND THE DRIVE-THRU AREAS PER HEALTH REVIEWER. 2. THE ORIGINAL HAND SINKS WERE FURRED OUT BY AN 8" STUD PER HEALTH REVIEWER.	G-002, A-201, A-211, A-221, A-601, A-602, P-101, P-201, P-221, P-301, P-302, K-201, K-211, K-212, K-601, K-602, K-611, K-801, K-802
5	11/14/22	CAPACITY REVISIONS	1. AN ADDITIONAL THAW DOOR #444S WAS ADDED TO THE KITCHEN DUE TO ANTICIPATED INCREASED CAPACITY. SHELVING WAS ADJUSTED.	K-201, K-211, K-212, K-602, K-801, K-802
6	2/6/23	STEEL REVISIONS	1. TOP OF STEEL ELEVATIONS IN BRACE FRAME ELEVATIONS WERE CORRECTED ON THE STRUCTURAL DRAWINGS TO MATCH THE STEEL SHOP DRAWINGS.	S-405

INCLUDED IN PROTOTYPE SET

DESIGN NOTES APPLIED IN CURRENT PROJECT

DESIGN NOTE NUMBER	DESIGN NOTE RELEASE DATE	DESCRIPTION	_CFA Design Note Long Description
2021-021	00/00/00	CAPTURE JET FAN DESIGN CHANGE	Long Description of the Design Note Applied
2021-022	00/00/00	FOURTH OPEN FRYER HOOD CAPACITY	Long Description of the Design Note Applied
2021-023	00/00/00	SRI ADDITION A COORDINATION	Long Description of the Design Note Applied
2021-024	00/00/00	PANELIZED TO STICK BUILT CONVERSION	Long Description of the Design Note Applied
2021-025	00/00/00	REMOVAL OF FUTURE CONDIMENT PODS	Long Description of the Design Note Applied
2021-026	00/00/00	ICE BATH BREADING SYSTEM IMPLEMENTATION	Long Description of the Design Note Applied
2021-028	12/2/21	Lennox to Trane RTU	Replacing the Lennox RTU's with Trane units which will affect curb sizes and control wiring.
2021-028-005R EV2	12/17/21	Menu Board Standard	- Each exterior menu board enclosure shall receive one quad outlet on a dedicated 15A 120v non-controlled (hot all the time) circuit. - Interior menu board outlets shall be located 6" above the center of the bulkhead.
2021-030	12/17/21	Ice Bath Breading and Label Maker Electrical Infrastructure	Adding or modifying electrical to support future ice bath breading equipment as well as new time & temperature label makers.
2021-031	12/17/21	Walk-in Cooler and Freezer Clearances	Updating the following Freezer/Cooler attributes: framing to framing dimensions, finish to finish/critical dimension, 2" min. air space all sides dimension.
2021-032	12/17/21	ADA Stall Sinks Clarity	We are removing the ADA stall sinks from the prototype
2022-001	2/4/22	Drive-Thru Filtered Water Faucet Height	Raising the height of the filtered water faucet in the drive-thru to 4'-0" AFF when it's above a Metro lemon prep table or 4'-9" AFF when it's above a stainless steel beverage counter.

REVISION #1

DESIGN NOTES APPLIED IN CURRENT PROJECT

DESIGN NOTE NUMBER	DESIGN NOTE RELEASE DATE	DESCRIPTION	_CFA Design Note Long Description
2022-002REV2	2/16/22	Bromic Electric Heater	- Adding a 6000W Bromic electric heater above the drive-thru window/door at the Meal Fulfillment Canopy. - Removing the gas Schwank Heater (Tom Barrow) from the Meal Fulfillment Canopy. - Order Point Canopy heaters remain unchanged.
2022-003	2/28/22	New Electrical Panel D3	Adding a 3rd 250 amp electrical panel for the kitchen equipment under the hoods.
2022-003.1-2020-024REV2	2/28/22	DT Cockpit Door and HVAC Updates REV2	Alternate wiring equipment is specified for the Tormax drive-thru door in case there are procurement issues.

REVISION #3

DESIGN NOTES APPLIED IN CURRENT PROJECT

DESIGN NOTE NUMBER	DESIGN NOTE RELEASE DATE	DESCRIPTION	_CFA Design Note Long Description
2022-006REV3	4/20/22	Bromic Electric Heater	- Adding a 6000W Bromic electric heater above the drive-thru window/door at the Meal Fulfillment Canopy. - Removing the gas Schwank Heater (Tom Barrow) from the Meal Fulfillment Canopy. - Order Point Canopy heaters remain unchanged.
2022-007	3/11/22	SCCR Rating of RTU Equipment	Developing process to bring awareness that the calculated site adapt available fault current at the RTU equipment may be larger than the standard SCCR rating of units ordered by Trane and Lennox.
2022-010.55	4/15/22	Outlet at Pass-Thru Opening	Recirculting outlet above the pass-thru from POS panel to B panel.
2022-015	6/3/22	Expanded Digital Cockpit	Updating the Drive-Thru cockpit to provide more space in the Dive-thru cockpit, more efficient cockpit and serving layouts, and additional kitchen equipment in these spaces.
2022-022	8/12/22	Drive-Thru Dump Sink and Hand Sink	- Revising the equipment schedule so that the dump sink (KEQ #360D) will have an indirect connection to the sanitary. - Providing new floor sink "P-13C" specifications.
2022-024	9/2/22	Restroom Mirror Blocking	Revising the mirror blocking detail in all restrooms.
2022-031	9/22/22	Oil Reclamation System	Adding the following infrastructure updates for Darpro oil reclamation: - 3/4" inlet piping with stub-outs. 100' max run (including elbows and drops in the wall from the farthest stub out to collection tank). - 2" exhaust piping with fill port. 100' max run (including elbows and drops in the wall from exhaust port to collection tank). - Piping to be Schedule 40 (Black or Galvanized) Steel with 1 1/2" fiberglass insulation routed to allow as much fall as possible to tank. - Exterior lock box surface mounted on exterior wall. - Placeholder shelving and duplex outlet at future oil collection tank location.

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FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

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CONSTRUCTION

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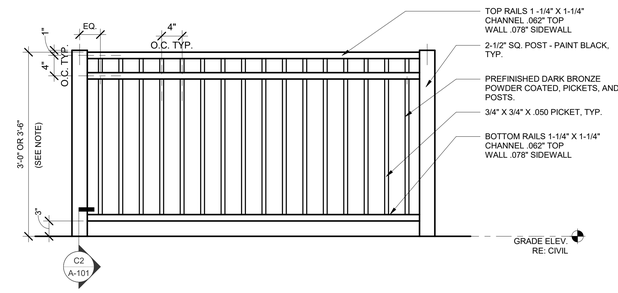
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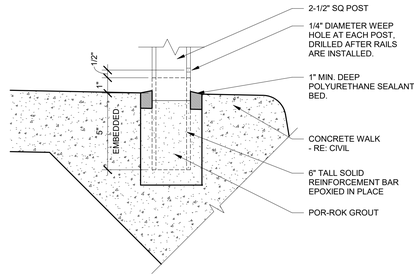
PATIO SEATING SCHEDULE

Mark	Type	Count	Manufacturer	Model	Width	Depth	Height	Material	Finish
1	Patio Chair	14	Benchmark Design Group	WENDOVER CHAIR					
2	Patio Table - 4 Top	1	Benchmark Design Group	TAB3055-3636-AAL-WJ-UH-BDT	3'-0"	3'-0"	2'-5 1/4"	Aluminim - Dark Bronze	RAL 49/66220 (C34 Bronze One Coat)
3	Patio Table - 4 Top - ADA	1	Benchmark Design Group	TAB3055-3644-AAL-WJ-UH-BDT	3'-8"	3'-0"	2'-5 1/4"	Aluminim - Dark Bronze	RAL 49/66220 (C34 Bronze One Coat)
4	Patio Table - 2 Top	3	Benchmark Design Group	TAB3055-2424-AAL-WJ-BDT	2'-0"	2'-0"	2'-5 1/4"	Aluminim - Dark Bronze	RAL 49/66220 (C34 Bronze One Coat)
5	Patio Umbrella	2	Tuuci	OCEAN MASTER PARASOL					
6	FN - OUTSIDE TRASH RECEPTACLE	1	Benchmark Design Group	CFA-AL-2444	2'-0"	2'-0"	3'-11"	Dark Bronze	RAL 49/66220 (C34 Bronze One Coat)

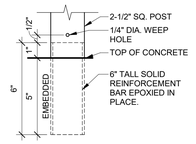


NOTES:
1. 3'-0" HANDRAIL HEIGHT TO BE USED ALONG OPEN SIDED LEVEL WALKING SURFACES THAT ARE LOCATED LESS THAN 2'-6" ABOVE A FLOOR OR GRADE BELOW. 2'-6" GUARDRAIL HEIGHT REQUIRED ALONG OPEN SIDED LEVEL WALKING SURFACES THAT ARE LOCATED 2'6" OR GREATER ABOVE A FLOOR OR GRADE BELOW OR WHERE REQUIRED BY A.H.J. OR OTHER GOVERNING CODE/REGULATION. ARCHITECT TO VERIFY SITE SPECIFIC CONDITIONS & COORDINATE.
2. ALL ALUMINUM TO BE .062" TOP WALL, .078 SIDE WALL
3. USE ONLY COMMERCIAL GRADE ALUMINUM FENCING WITH DARK BRONZE POWDER COAT FINISH.

D1 TYP ALUMINUM RAIL
1" = 1'-0"



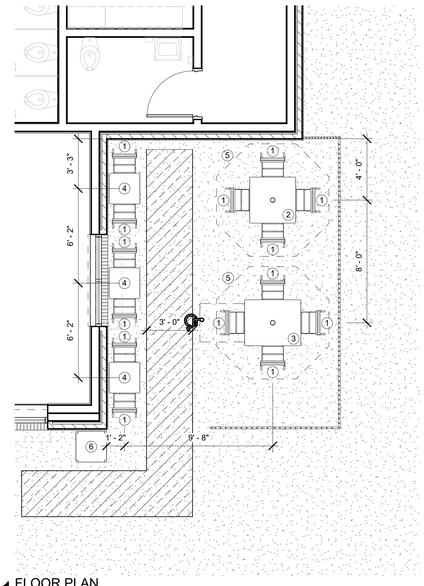
C2 TYP EXTERIOR RAILING FIELD EMBEDMENT DETAIL
3" = 1'-0"



WEEP HOLE NOTE:

ALL POSTS GROUTED INTO CONCRETE MUST HAVE A 1/4" DIAMETER WEEP HOLE LOCATED JUST ABOVE THE MOUNTING SURFACE AND ALONG THE PLANE OF THE RAIL. WEEP HOLES WILL NEED TO BE DRILLED AFTER RAILS HAVE BEEN INSTALLED.

C1 EMBEDDED POST DETAIL
3" = 1'-0"



1 FLOOR PLAN
1/4" = 1'-0"

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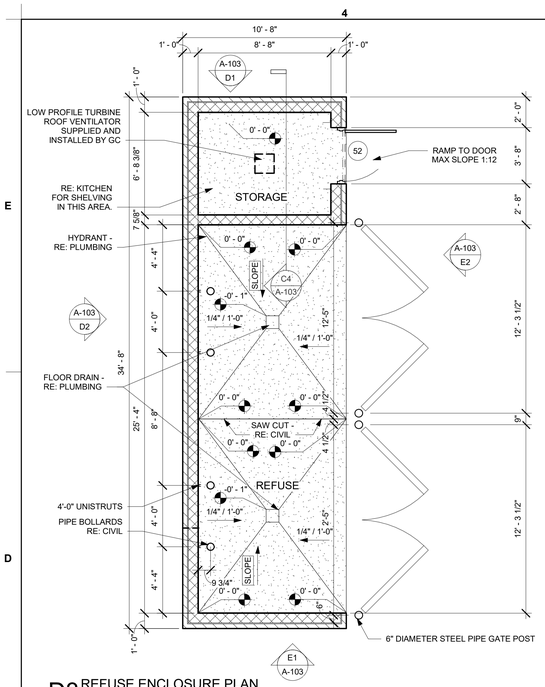
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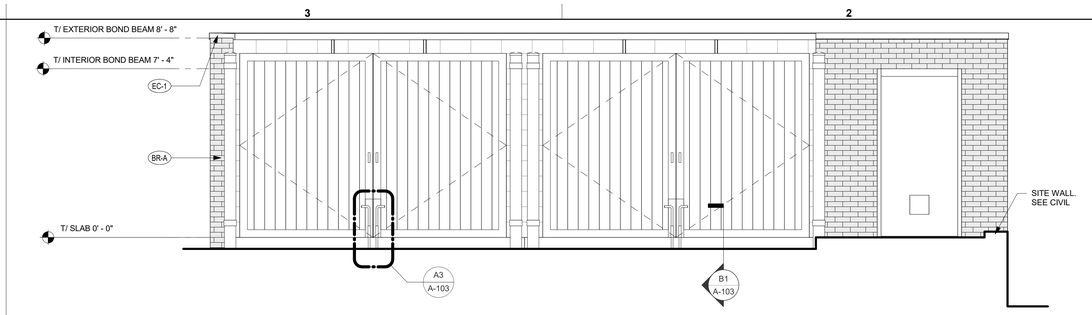
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PATIO PLANS

SHEET NUMBER
A-101

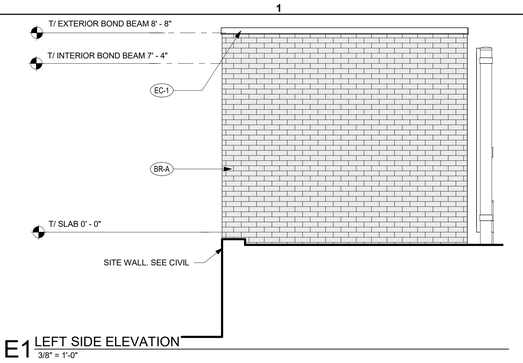
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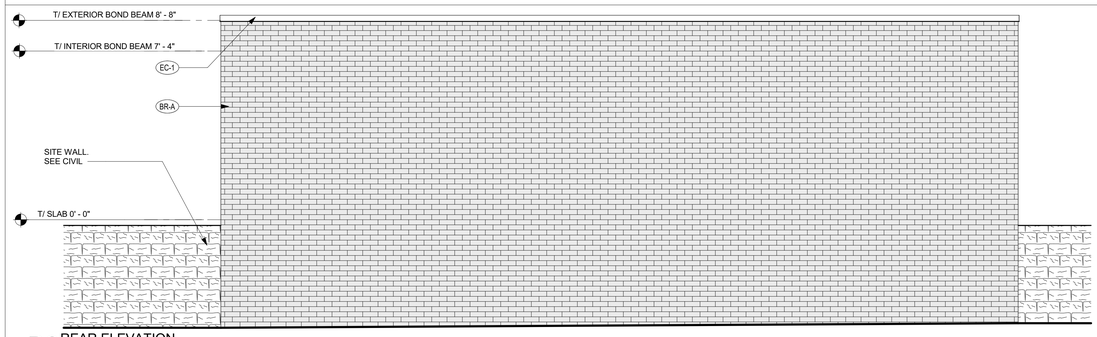
D3 REFUSE ENCLOSURE PLAN
1/4" = 1'-0"



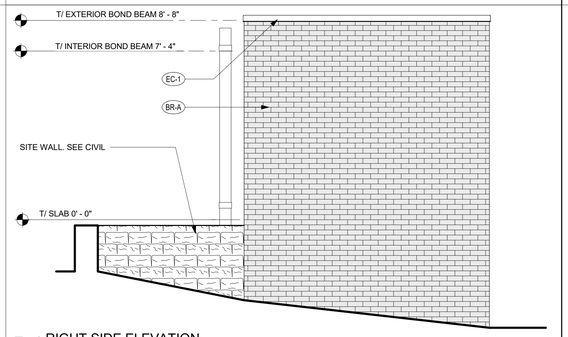
E2 FRONT ELEVATION
3/8" = 1'-0"



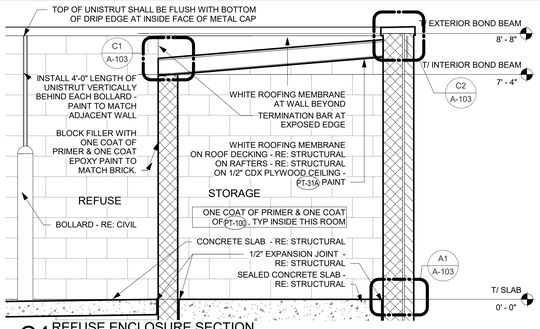
E1 LEFT SIDE ELEVATION
3/8" = 1'-0"



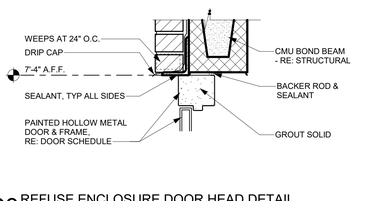
D2 REAR ELEVATION
3/8" = 1'-0"



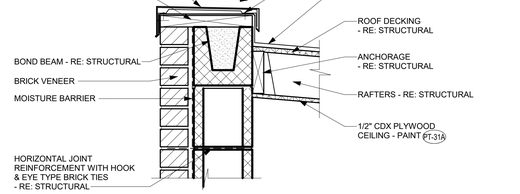
D1 RIGHT SIDE ELEVATION
3/8" = 1'-0"



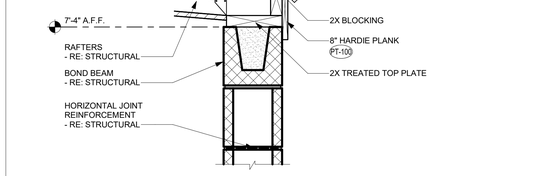
C4 REFUSE ENCLOSURE SECTION
1/2" = 1'-0"



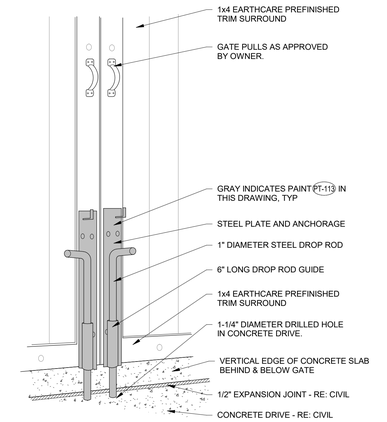
C3 REFUSE ENCLOSURE DOOR HEAD DETAIL
1 1/2" = 1'-0"



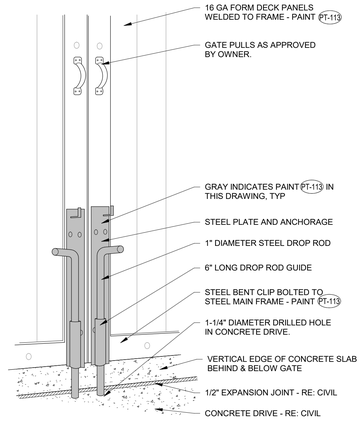
C2 REFUSE ENCLOSURE ROOF EDGE DETAIL
1 1/2" = 1'-0"



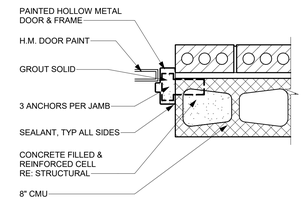
C1 REFUSE ENCLOSURE DRIP EDGE
1 1/2" = 1'-0"



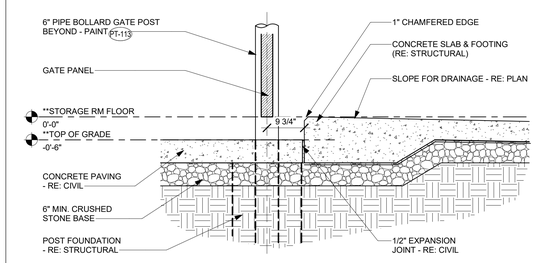
A4 REFUSE ENCLOSURE DROP ROD 3-D DETAIL
1/2" = 1'-0"



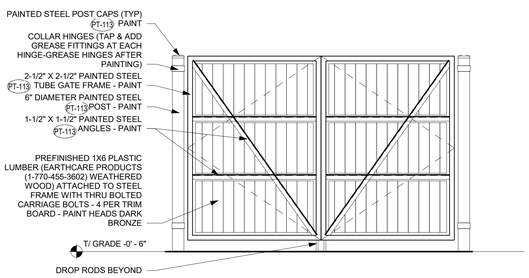
A3 REFUSE ENCLOSURE DROP ROD 3-D DETAIL
1/2" = 1'-0"



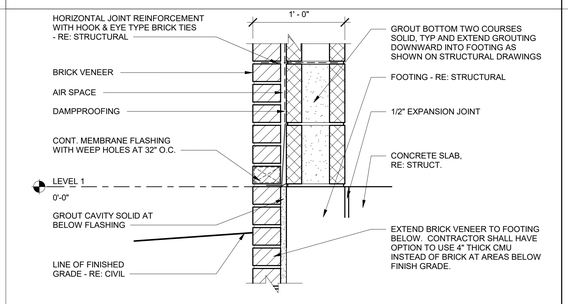
B2 REFUSE ENCLOSURE DOOR JAMB DETAIL
1 1/2" = 1'-0"



B1 REFUSE PAD AT CONCRETE PAVING DETAIL
3/4" = 1'-0"



A2 REFUSE ENCLOSURE GATE REAR ELEVATION
3/8" = 1'-0"



A1 REFUSE ENCLOSURE BASE DETAIL
1 1/2" = 1'-0"

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FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

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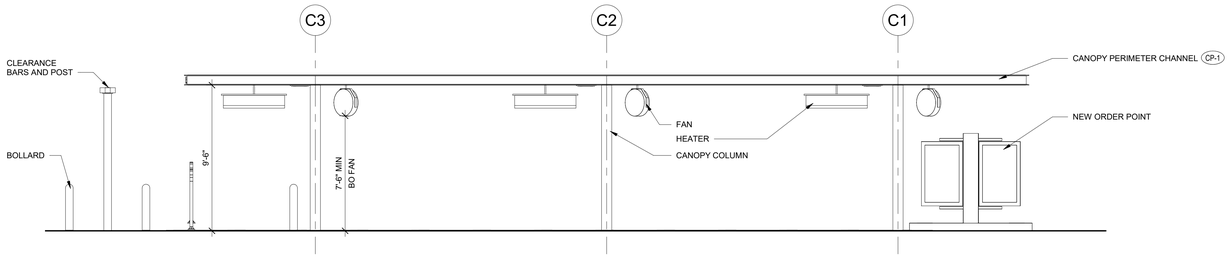
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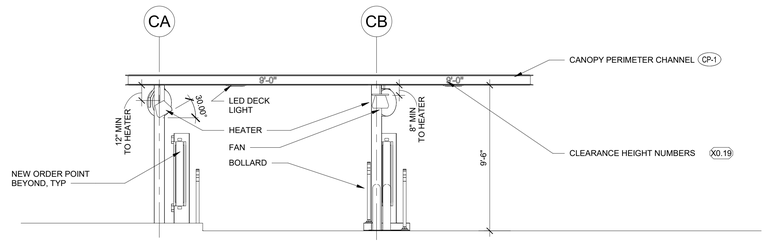
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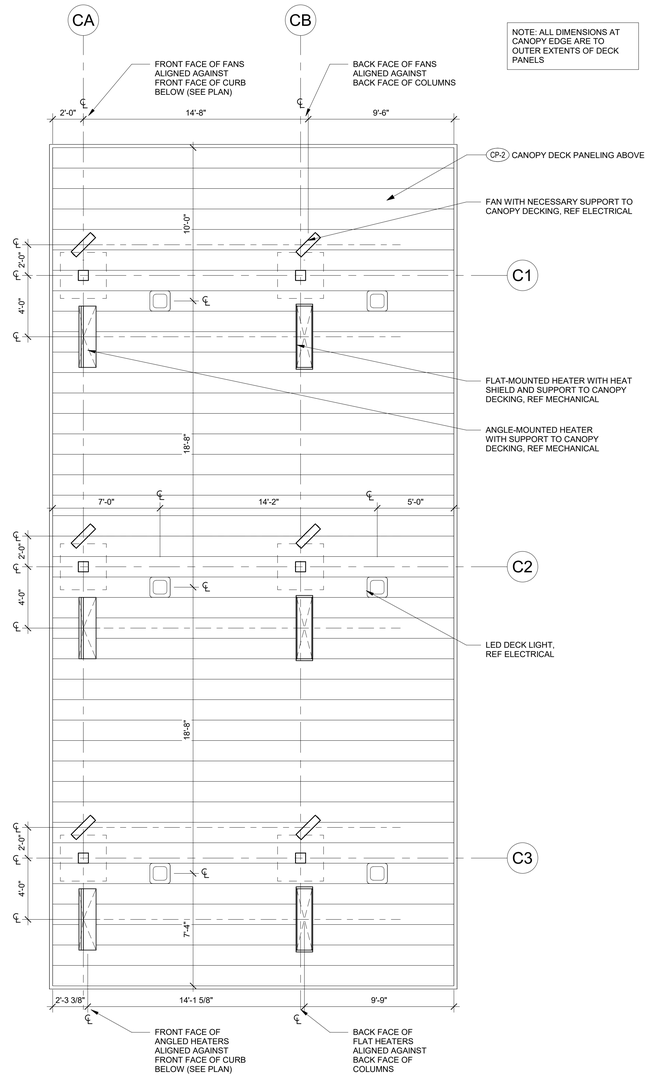
ORDER POINT EQUIPMENT SCHEDULE									
vgvg	EQUIPMENT	APPLICABLE TIER			SUPPLIER	CONTACT	MANUFACTURER	MODEL NUMBER	COMMENTS
		1	2	3					
X0.3	BOLLARD SLEEVE	-	X	X	GC	-	INTERSTATE PRODUCTS OR EQUAL	1736YRS - EAGLE 6"	-
X0.4	C7 ORDER POINT W/O CANOPY	-	X	X	UNISTRUCTURES OR CHANDLER SIGNS	Carolyn Ward (678-974-1759) c.ward@unistructures.com OR Kristen Hamilton, Amy McCann, or Scarlett Quintero (210-349-3804) CFA@chandlersigns.com	UNISTRUCTURES OR CHANDLER SIGNS	-	83" L x 15' W x 77" H; See shop drawings for more information; Dark Bronze textured finish. Route conduit from building to order point as indicated on drawings
X0.6	C7 DOUBLE CLEARANCE BAR	-	BY SITE	BY SITE	UNISTRUCTURES OR CHANDLER SIGNS	SEE X0.4	UNISTRUCTURES OR CHANDLER SIGNS	-	14'-6 1/2" L x 9'-0" H; See shop drawings for more information; Dark Bronze textured finish
X0.19	CLEARANCE TEXT	-	X	X	LANE OR FASHION	Larry Tolbert (705-545-7615) ltolbert@lanesupplyinc.com OR Jason Holmes (785-242-8111) jholmes@fashioninc.com	LANE OR FASHION	-	-



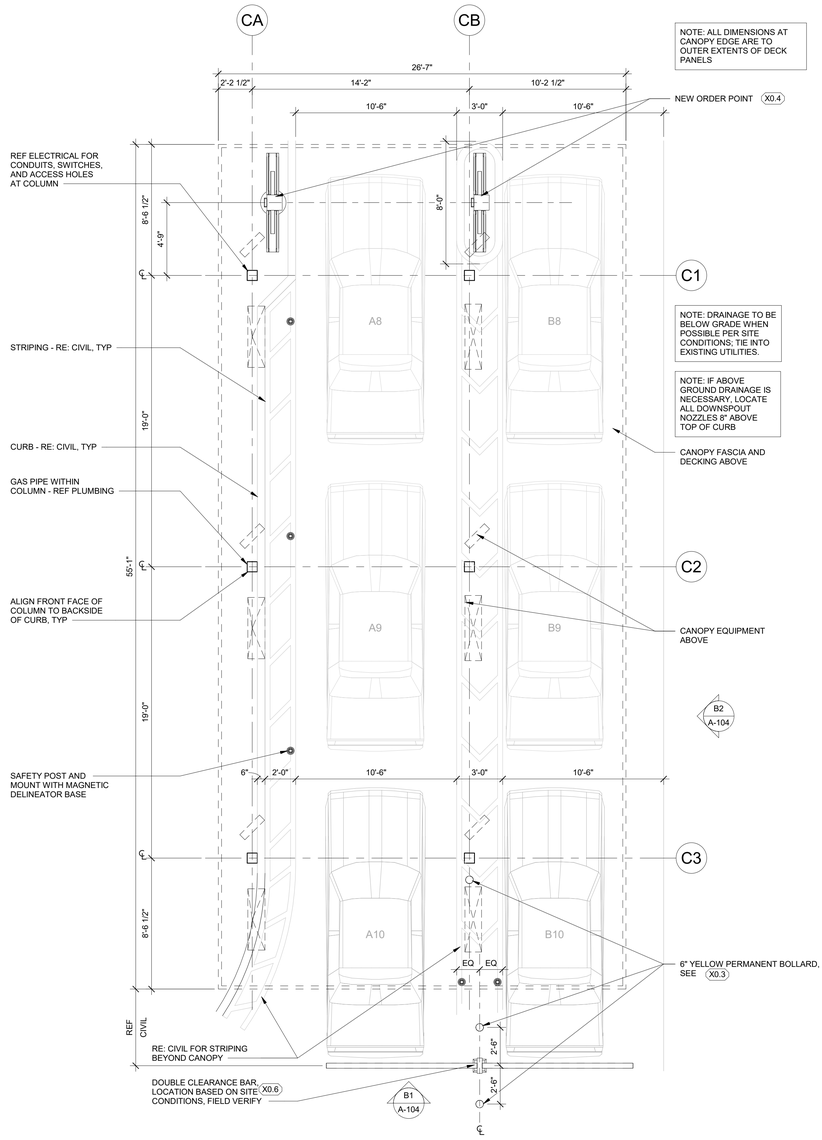
B2 SIDE ELEVATION
1/4" = 1'-0"



B1 ENTRY ELEVATION
1/4" = 1'-0"



A2 ORDER POINT CANOPY REFLECTED CEILING PLAN
1/4" = 1'-0"



A1 ORDER POINT CANOPY PLAN
1/4" = 1'-0"

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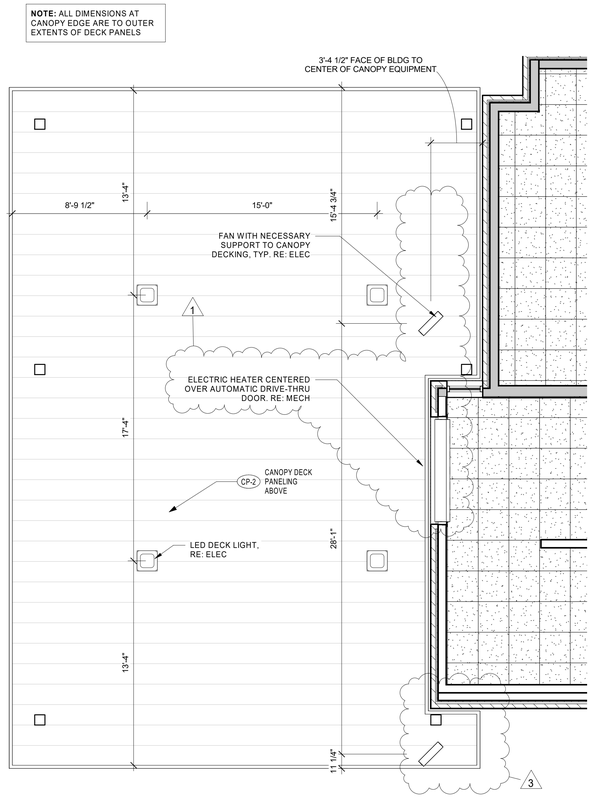
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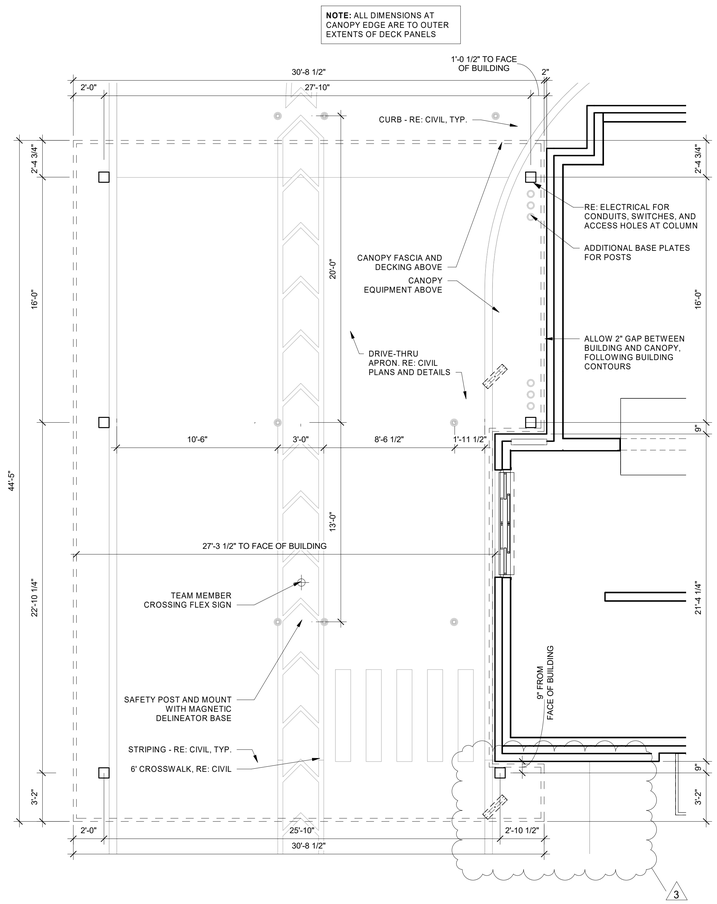
SHEET: ORDER POINT CANOPY

SHEET NUMBER
A-104

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2 OUTSIDE MEAL DELIVERY CANOPY REFLECTED CEILING PLAN
1/4" = 1'-0"



1 OUTSIDE MEAL DELIVERY CANOPY PLAN
1/4" = 1'-0"

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1	03/29/2022	DESIGN NOTES
3	07/22/2022	DESIGN NOTES

CONSTRUCTION

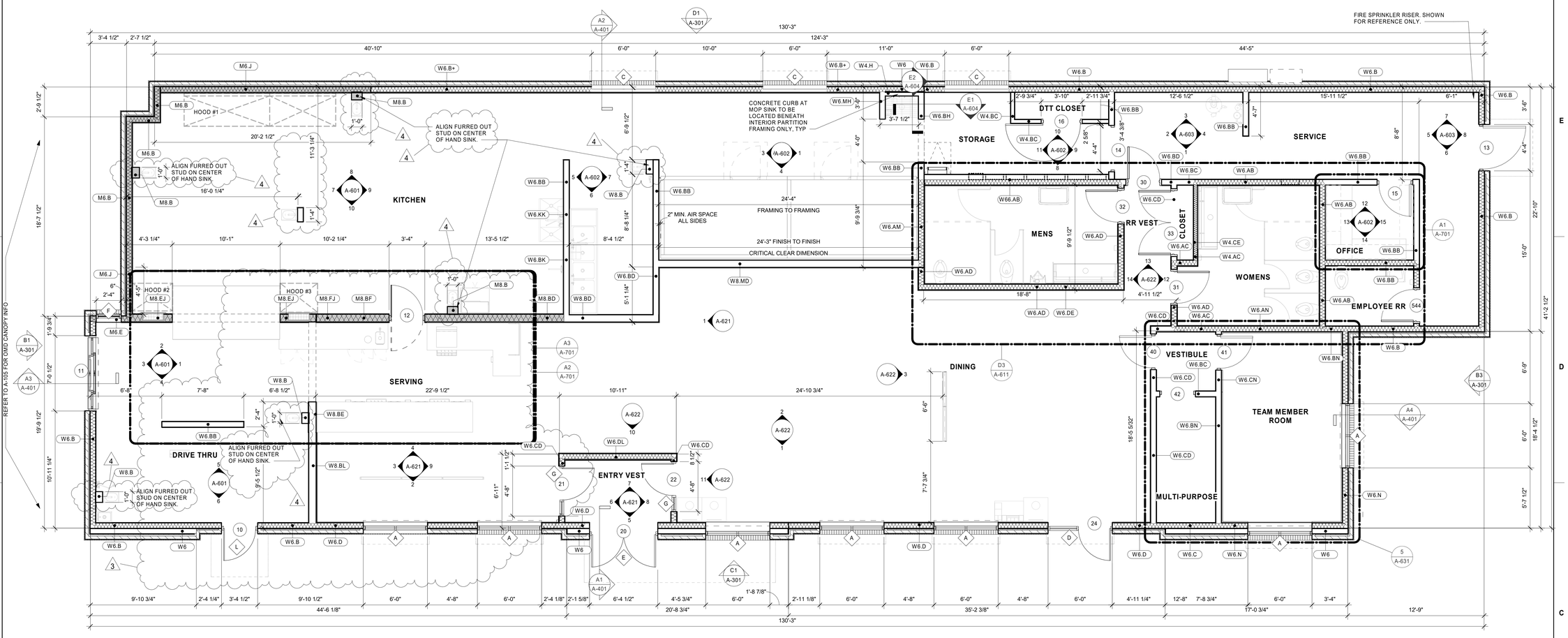
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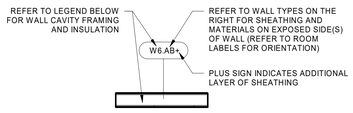
SHEET
OUTSIDE MEAL DELIVERY CANOPY

SHEET NUMBER
A-105

9/26/2022 9:53:42 AM
10-LE-04591-A-105-OUTSIDE MEAL DELIVERY CANOPY



C4 FLOOR PLAN
1/4" = 1'-0"



WOOD STUD WALL	
W4	2x4 WOOD STUDS
W6	2x6 WOOD STUDS
W8	2x8 WOOD STUDS
METAL STUD WALL	
M4	3 5/8" METAL STUDS
M6	6" METAL STUDS
M8	8" METAL STUDS
BATT INSULATION	

NOTE 1: WALL BLOCKING SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. BLOCKING SHALL INCLUDE, BUT IS NOT LIMITED TO: AREAS INDICATED ON INTERIOR ELEVATIONS FOR GRAB BARS, SHELVING BRACKETS, MONITORS, FIXTURES, ETC, AS WELL AS BLOCKING FOR WINDOWS, CANOPIES ROOF FRAMING, ROOF TOP UNITS, ETC.

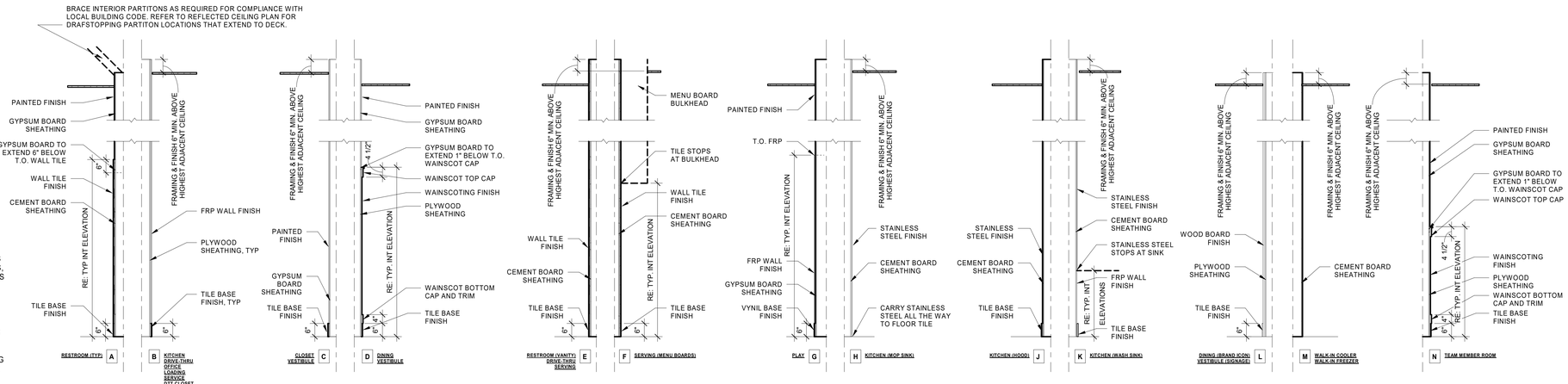
NOTE 2: REFER TO STRUCTURAL DRAWINGS AND WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION.

NOTE 3: REFER TO FINISH PLAN FOR WALL FINISH INFO AND SPECIFICATIONS FOR WALL SHEATHING INFO

NOTE 4: GENERAL CONTRACTOR TO PROVIDE AND/OR VERIFY FIRE BLOCKING AT 10' MAX VERTICAL SPACING AND AT CEILING HEIGHT IN ALL COMBUSTIBLE STUD WALLS, ACCORDING TO LOCAL CODE REQUIREMENTS.

NOTE 5: AIR BARRIER SHALL BE TYVEK COMMERCIAL WRAP OVER EXTERIOR SHEATHING.

WALL TYPES LEGEND
N.T.S.



INSULATION SCHEDULE		
LOCATION	R-VALUE	THICKNESS
ROOF	R-30	5" RIGID
WALL (CONTINUOUS)	R-5	1" RIGID - CONTRACTOR TO VERIFY WITH MANUFACTURER THAT THE BRICK TIES CAN BE INSTALLED OVER INSULATION.
WALL (CAVITY)	R-21	6" BATT
SLAB	R-10	FULLY INSULATED. 2" RIGID RUN HORIZONTALLY UNDERNEATH ENTIRE SLAB EXTENDING VERTICALLY TO TOP OF FOOTING. FILL BRICK AIR SPACE THAT IS TYPICALLY MORTAR FILLED BELOW FFE. SEE SECTIONS A-401 AND DETAIL A4/A-501.

NOTES:
1. REFER TO FLOOR PLAN AND WALL SECTION SHEETS FOR INSULATION EXTENTS AND LOCATIONS.
2. REFER TO SPECIFICATIONS FOR INSULATION PRODUCT INFORMATION.

FLOOR PLAN GENERAL NOTES

A.1 ALL DIMENSIONS SHOWN ARE FRAMING DIMENSIONS (FACE OF STUD/JAMB) UNLESS OTHERWISE NOTED.
A.2 FASTENERS, ANCHORS, CLIPS, STRAPS, ETC WHICH ARE IN CONTACT WITH PRESERVATIVE AND/OR FIRE TREATED WOOD SHALL BE OF G-185 HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, OR AN APPROVED EQUAL.
A.3 REFER TO CIVIL AND LANDSCAPE FOR LOCATIONS OF WALKS, BOLLARDS, LANDSCAPING AREAS, FLAG POLE, AND OTHER SITE ITEMS.
A.4 REFER TO INTERIOR ELEVATIONS FOR LOCATIONS AND TYPES OF CORNER GUARDS.
A.5 CONTRACTOR TO COORDINATE LOCATION OF POLE MOUNTED EXTERIOR CAMERA WITH STRONG SYSTEMS AND INSTALL UNDERGROUND CONDUIT AS REQUIRED. RE: ELECTRICAL
A.6 REFER TO ACCESSIBILITY PLAN AND FURNITURE DRAWINGS FOR SEATING LAYOUT & SPECIFICATIONS. CONTACT: OWNER.
A.7 REFER TO ACCESSIBILITY PLAN AND OWNER DRAWINGS FOR CONDIMENT COUNTERS AND TRASH RECEPTACLES.
A.8 REFER TO IT WALLBOARD USER GUIDE FOR WALLBOARD INSTALLATION, IF APPLICABLE.
A.9 REFER TO MILLWORK PLAN FOR RAISED CONCRETE CURB LOCATIONS.
A.10 FREEZER AND COOLER DOORS AND HARDWARE SUPPLIED BY FREEZER/COOLER MANUFACTURER

FLOOR PLAN LEGEND:

CT CABINET
RE: ELECTRICAL

MDP RE: ELECTRICAL

STEEL WALL BY OWNER RE: OWNER FOR EXACT LOCATIONS

ITEM BY OWNER

SOFFIT OR BULKHEAD ABOVE RE: REFLECTED CEILING PLAN

2-SIDED BRAND ICON
RE: OWNER DRAWINGS

RECESSED PIN AND SLEEVE BOX. RE: A4/A620 & MEP DRAWINGS.

ELECTRICAL PANEL RE: ELECTRICAL

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5200 Buffington Road
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FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

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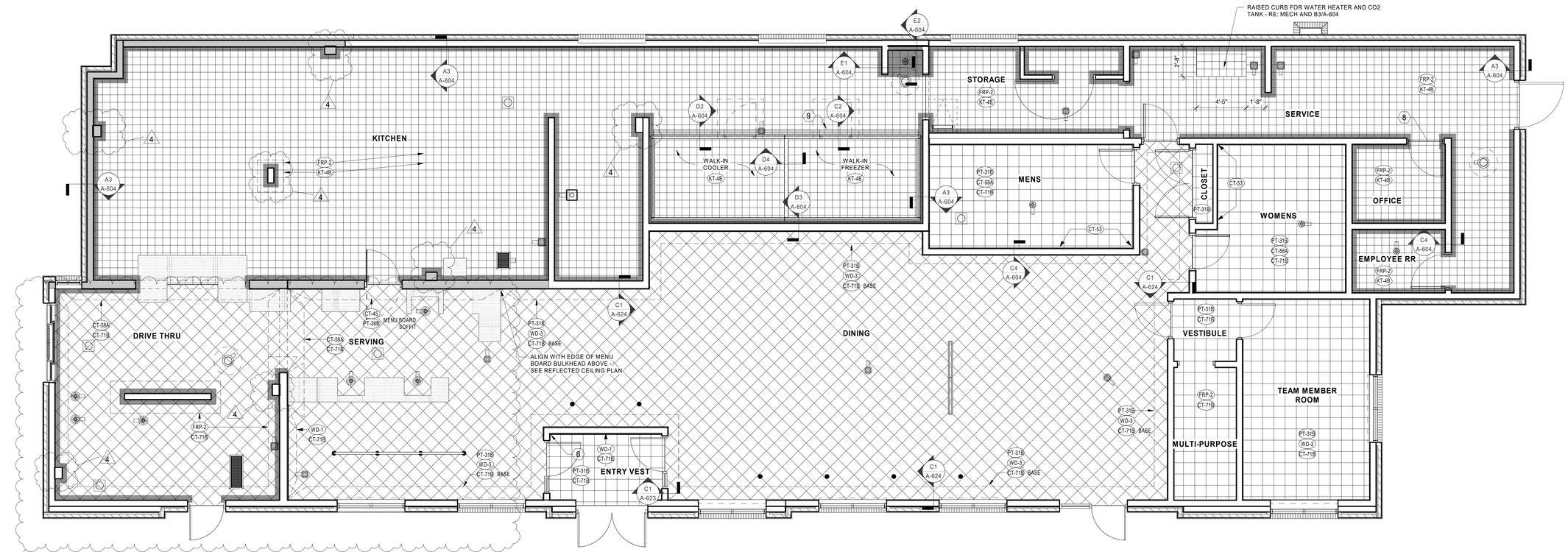
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SHEET
FLOOR PLAN

SHEET NUMBER
A-201

11/4/2022 11:53:20 AM
10-LE-04591-A-201-FLOOR PLAN



C4 FINISH PLAN
1/4" = 1'-0"

FINISH SCHEDULE - INTERIOR

MARK	DESCRIPTION	MANUFACTURER	MODEL NAME	MODEL NUMBER	COLOR	SIZE	NOTE
02_FLOOR FINISHES							
CT-71	PORCELAIN TILE	CREATIVE MATERIALS CORPORATION	LAVA		LIGHT GREY	12" X 12"	JOINT WIDTH: 3/16"
FL-1	PLAYGROUND FLOORING	PROJECT INNOVATIONS INC	PLAY PAD SAFETY SURFACING		50% DARK GRAY, 25% LIGHT GRAY, 25% BLUE	1/2" THICK MIN	SOFT PLAY/ SII PLAYGROUND TO PURCHASE AND INSTALL
G-12	FLOOR TILE GROUT	MAPEI	ULTRA COLOR GROUT		47 / CHARCOAL		USED WITH PORCELAIN TILE
G-16	FLOOR TILE GROUT	MAPEI	KERAPOXY IEG CQ		47 / CHARCOAL		USED WITH QUARRY TILE, GC TO INSTALL WITH STANDARD THINSET MORTAR
KT-4	QUARRY TILE	CREATIVE MATERIALS CORPORATION			RED 308	8" X 8"	JOINT WIDTH: 3/8" W THINSET MORTAR
KT-5	QUARRY TILE	CREATIVE MATERIALS CORPORATION			GRAY 507	8" X 8"	JOINT WIDTH: 3/8" W THINSET MORTAR
04_WALL BASE FINISHES							
CT-71B	PORCELAIN TILE COVE BASE	CREATIVE MATERIALS CORPORATION	LAVA		LIGHT GREY	6" X 12" COVE	JOINT WIDTH: 3/16"
KT-4B	QUARRY TILE COVE BASE	CREATIVE MATERIALS CORPORATION			RED 308	6 " x 8" COVE	JOINT WIDTH: 3/8" WITH THINSET MORTAR
KT-5B	QUARRY TILE COVE BASE	CREATIVE MATERIALS CORPORATION			GRAY 507	6 " x 8" COVE	JOINT WIDTH: 3/8" WITH THINSET MORTAR
VB-1	VINYL WALL BASE @ PLAYGROUND	JOHNSONITE	TRADITIONAL COVE BASE		CB-40, BLACK	6" H	
04_WALL FINISHES							
CG-1	OUTSIDE CORNER GUARD AT PLAYGROUND (FULL HEIGHT, TYPICAL)	KOROGARD	EXTRUDED CORNER GUARDS	G-815	OYSTER	.078 THICK x 1 1/2" x 1 1/2" x 96" H	
CG-2	INSIDE CORNER GUARD AT PLAYGROUND	KOROGUARD	THERMOFORMED CORNER GUARDS WITH SQUARE EDGE PROFILE	F-410	OYSTER	.40" THICK X 1" X 1" X 96"H	
CG-3	CORNER GUARD (KITCHEN ONLY)	MANUFACTURER	STAINLESS STEEL CORNER GUARD AND/OR ENDCAP		STAINLESS STEEL		EXTEND FROM TOP OF BASE TO 8'-0" ABOVE BASE AT WALL CORNERS. AT CASED OPENINGS, CORNER GUARD TO STOP AT HEAD OF OPENING.
CG-4	CORNER GUARD (KITCHEN ONLY)	MARLITE	MARLITE		WHITE		CORNER GUARD AT ALL OUTSIDE FRP CORNERS, U.N.O.
CG-5	CORNER GUARD (RESTROOM ONLY)	SCHLUTER	JOLLY "A60AT"		SATIN NICKEL ANODIZED ALUMINUM	1/4"	
CT-45	STAINLESS STEEL WALL TILE	CREATIVE MATERIALS CORPORATION			VOGUE STAINLESS STEEL	1" X 2" BRICK, 12 X 12 SHEET	GROUT: G-11
CT-53	RED PENNY TILE	CREATIVE MATERIALS CORPORATION	VOGUE RED			3/4" PENNY ROUNDS W/ METAL TRIM (SEE CG-5), 12 X 12 SHEET	GROUT: G-11, REFER TO ELEVATIONS & DETAILS
CT-58A	SUBWAY WALL TILE	CREATIVE MATERIALS CORPORATION			BONE	4-1/4" X 8-1/2"	GROUT: G-11, JOINT WIDTH: 1/8"
CT-58D	SUBWAY WALL TILE - BULLNOSE OUTERCORNER	CREATIVE MATERIALS CORPORATION			BONE	4-1/4" X 4-1/4"	GROUT: G-11, JOINT WIDTH: 1/8"
CT-58E	SUBWAY WALL TILE - BULLNOSE (4" SIDE)	CREATIVE MATERIALS CORPORATION			BONE	4-1/4" X 8-1/2"	GROUT: G-11, JOINT WIDTH: 1/8"
CT-58F	SUBWAY WALL TILE - BULLNOSE (8" SIDE)	CREATIVE MATERIALS CORPORATION			BONE	4-1/4" X 8-1/2"	GROUT: G-11, JOINT WIDTH: 1/8"
FRP-1	FRP WALL PANELS @ PLAYGROUND	KOROGUARD	FRP RIGID VINYL SHEET	W202	OYSTER	.040" THICK X 4 X 8 PANELS	8'-0" A.F.F MAX HEIGHT
FRP-2	FRP WALL PANELS @ KITCHEN	MARLITE	STANDARD FRP	P-199	BRIGHT WHITE	.090" THICK X 4 X 10 PANELS	PROVIDE MARLITE CORNER GUARDS AT ALL OUTSIDE CORNERS IN KITCHEN AREAS, U.N.O.
G-11	WALL TILE GROUT	MAPEI	KERACOLOR U WITH GROUT MAXIMIZER LATEX ADDITIVE	UNSANDED	09/GRAY		
PT-9B	INTERIOR WALL PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7031	MEGA GRIEGE		FINISH: SEMI-GLOSS ON DOOR FRAMES, SATIN ON WALLS
PT-17	INTERIOR WALL PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7013	IVORY LACE		FINISH: SEMI-GLOSS ON DOOR FRAMES, SATIN ON WALLS
PT-31B	PRIMARY INTERIOR WALL PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7011	NATURAL CHOICE		FINISH: EGGSHELL
PT-32	ACCENT INTERIOR WALL PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7514	FOOTHILLS		FINISH: EGGSHELL
PT-35	INTERIOR DOOR FRAME PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7020	BLACK FOX		FINISH: SEMI-GLOSS
PT-36B	ACCENT INTERIOR WALL PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7600	BOLERO		FINISH: EGGSHELL
WD-1	WHITE OAK BOARDS	SKYLAR MORGAN	5" W NATURAL WHITE OAK BOARDS, CUSTOM CHARACTER GRADE				FINISH: OILED OR WATERLOX WITH BLACK EPOXY FILLED KNOTHOLES
WD-3	WAINSCOTING	RE: NATIONAL ACCOUNT SCHED	1/4" PLYWOOD (RED OAK, PLAIN CUT CORE W/ METAL TRIM)		RED OAK STAINED MINWAX DRIFTWOOD		RE: DETAILS AND SHOP DRAWINGS FROM MANUFACTURER
05_MISCELLANEOUS FINISHES							
MT-1	POWDERCOAT METAL FINISH	ALPHA COATING TECHNOLOGIES INC	POWDERCOAT	T1-7060	TRISMOKE		
PL-32	PLASTIC LAMINATE	WILSONART	CONTRACT COLLECTION	4878-38	PEWTER MESH		
PL-40	PLASTIC LAMINATE	WILSONART	CONTRACT COLLECTION	D-96	SHADOW		FINISH: MATTE #60
PNL-1	HARDIE PANEL	JAMES HARDIE BUILDING PRODUCTS, INC.	NON-COMBUSTIBLE FIBER-CEMENT PANELS (SMOOTH NOT WOOD GRAIN)		PT-31B (U.N.O.)		
RS-1	ROLLER SHADE	PHIFER	SHEARWEAVE 4000 U61	5% OPENENESS - NOTCHLESS	ECO/GREYSTONE		4" FASCIA, DARK BRONZE TO MATCH STOREFRONT, ROLLEASE SKYLINE CLUTCH, (HEAT SEALED INTERNAL POCK HEM BAR), 110LB STAIN/STEEL ROLLEASE CHAIN, RE: INTERIOR ELEVATIONS
S-1	STAINLESS STEEL WALL PANELS		18 GAUGE STAINLESS STEEL PANELS, BRUSHED #4 MATTE FINISH	GRADE 430			LOCATED BEHIND KITCHEN EXHAUST HOODS, PREP SINK, WASH SINK, AND MOP SINK. RE: ELEVATIONS
SS-11	SOLID SURFACE	AVONITE	FOUNDATIONS MINERALS COLLECTION	P1-9125	BLACK CORAL		WINDOWS SILLS, REFER TO DRAWINGS
SS-13	SOLID SURFACE	AVONITE	FOUNDATIONS MINERALS COLLECTION	F1-9065	ARTICA		BACK LINE COUNTERTOP, REFER TO DRAWINGS
SS-14	SOLID SURFACE	AVONITE			WHITE		RESTROOM VANITY BOWL, REFER TO DRAWINGS
SS-18	SOLID SURFACE	AVONITE	FOUNDATIONS MINERALS COLLECTION	F1-8901	ALTITUDE		SERVING COUNTERTOP, TROUGH SINK, REFER TO DRAWINGS
SS-19	SOLID SURFACE	DEKTON	INDUSTRIAL COLLECTION		SOKE	2CM THICK	WALK-UP COUNTERTOP, REFER TO DRAWINGS. FINISH: MATTE. GC PROVIDED/INSTALLED
TR-1	TRIM	BLANKE	EDGE PROTECTOR TRIM	300-280-0625	STAINLESS STEEL		

FINISH PLAN GENERAL KEYNOTES

A.1 RE: PLUMBING FOR FLOOR DRAIN/SINK LOCATIONS. RE: STRUCTURAL FOR DRAIN SLOPE INFORMATION.
A.2 PULL FLOOR AND WALL TILE FROM MULTIPLE BOXES TO ENSURE TILE COLOR VARIATION IN PUBLIC AREAS.
A.3 PROVIDE FRACTURE MEMBRANE/ SLIP SHEET AT ALL CONTROL AND EXPANSION JOINTS TO ALLOW TILE TO MOVEMENT.
A.4 ALL DINING AREA DRYWALL TO RECEIVE LEVEL 4 FINISH.
A.5 WRAP ALL EXPOSED PORTIONS OF CONCRETE CURBS WITH TILE BASE TO MATCH TILE BASE SCHEDULED IN RESPECTIVE ROOM/ AREA.
A.6 PROVIDE CG-3 AROUND PERIMETER OF ALL KITCHEN WINDOWS.
A.7 ALL EXTERIOR DOORS TO RECEIVE THRESHOLD SET IN BED OF MASTIC.
A.8 NO FINGER TILES ALLOWED AT CORNERS OF FLOOR TILE BASE

FINISH PLAN KEYNOTES

4	BLANKE TRANSITION STRIP - RE: THRESHOLD DETAIL -/---
6	START WITH FULL LENGTH TILE AT CORNER.
8	RE: OFFICE DOOR THRESHOLD DETAIL B2 / A-604
9	START WITH FULL LENGTH TILE ALIGNED AGAINST WALK-IN FREEZER THRESHOLD

FINISH PLAN LEGEND:

PORCELAIN TILE (CT-71)
KITCHEN TILE (KT-4)
FLOORING BY PLAYGROUND INSTALLER (FL-1)
EXPOSED CONCRETE
CONCRETE MILLWORK CURB
WATERPROOFING MEMBRANE TO EXTEND 12" UP WALL AND 12" FROM WALL ALONG FLOOR.
KERDI FLASHING BY SCHLUTER BENEATH FINISH FLOOR. RE: KEYED DETAIL.
FLOOR DRAINS / FLOOR SINKS RE: PLUMBING
CLEAN OUT RE: PLUMBING
TRENCH DRAINS RE: PLUMBING
STEEL WALLS BY OWNER
CORE DRILL LOCATION RE: FURNITURE PLANS

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CONSTRUCTION

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

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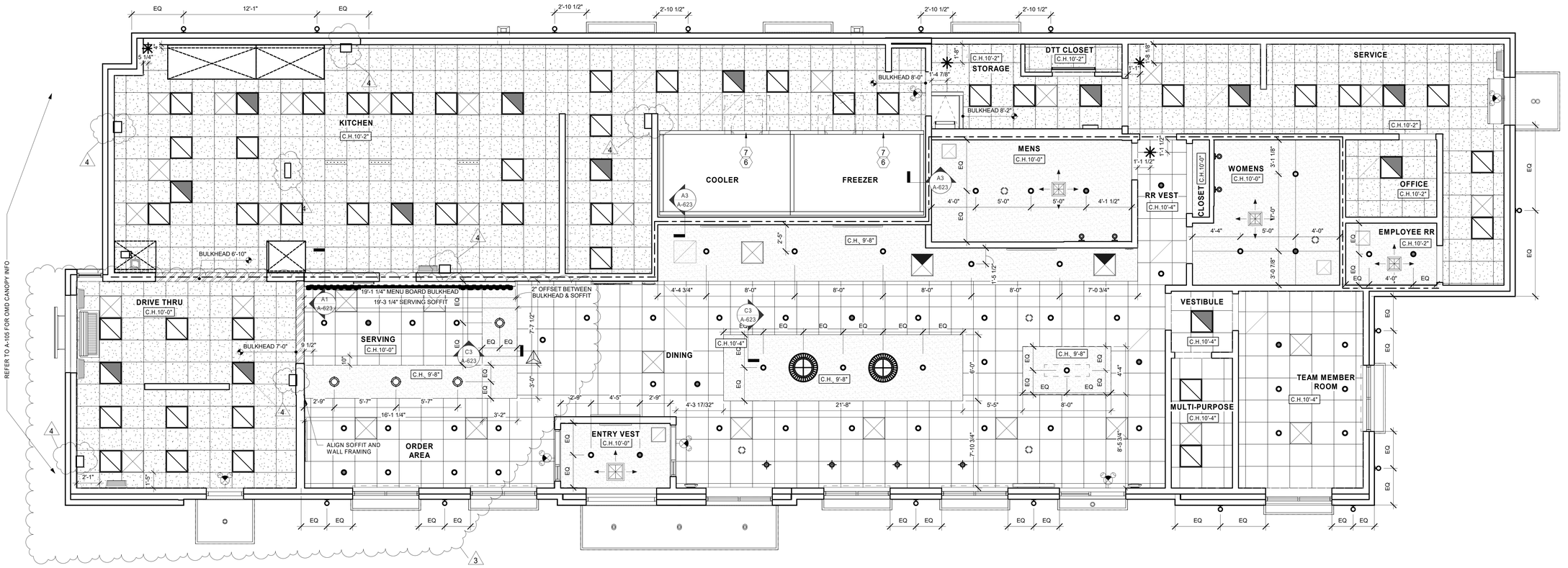
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SHEET
FLOOR FINISH PLAN

SHEET NUMBER
A-211

11/4/2022 11:53:24 AM
10-LE-04591-A-211-FLOOR FINISH PLAN



C4 REFLECTED CEILING PLAN
1/4" = 1'-0"

FINISH SCHEDULE - RCP							
MARK	DESCRIPTION	MANUFACTURER	MODEL NAME	MODEL NUMBER	COLOR	SIZE	NOTE
01_CEILING FINISHES							
ACT-1	ACOUSTICAL CEILING PANEL AND GRID	CERTAINTEED CEILINGS	PERFORMA VINYLROCK	1142-CRF-1	WHITE	24" x 24" x 1/2"	GRID:STANDARD 15/16" SQUARE LAY-IN GRID, WHITE
ACT-2	ACOUSTICAL CEILING PANEL AND GRID	CERTAINTEED CEILINGS	PERFORMA SYMPHONY M	1222BF-IOF-1	WHITE	24' X 24" X 3/4"	GRID: ELITE NARROW REVEAL (CORNER BEVEL) 9/16" GRID, WHITE
PT-9A	INTERIOR CEILING PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7031	MEGA GRIEGE		FINISH: FLAT
PT-31A	PRIMARY INTERIOR CEILING PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7011	NATURAL CHOICE		FINISH: FLAT (SEMI-GLOSS ON HARDIE PANEL)
PT-36A	INTERIOR CEILING PAINT	SHERWIN WILLIAMS	PRO MAR 200 ZERO VOC PAINT	SW-7600	BOLERO		FINISH: FLAT

REFLECTED CEILING PLAN GENERAL NOTES

A.1 REFER TO FINISH SCHEDULE FOR FINISH INFORMATION NOT SHOWN ON THIS SHEET.
A.2 REFER TO MECHANICAL AND ELECTRICAL FOR INFORMATION ON LIGHT FIXTURES AND MECHANICAL FIXTURES.
A.3 ADJUST EXACT LOCATION OF LIGHT FIXTURES TO CLEAR CEILING GRID AND HVAC GRILLES.
A.4 IN GYPSUM BOARD CEILINGS, ALIGN FIXTURES AND GRILLES BETWEEN CEILING JOISTS.
A.5 DIMENSIONS SHOWN ARE TO FACE OF FINISH.
A.6 CEILING SPEAKERS ARE NOT SHOWN HERE. SPEAKERS SHALL BE PROVIDED AND INSTALLED BY OWNER'S SUPPLIER. WHERE SPEAKERS OCCUR IN LAY-IN CEILING, SPEAKERS SHALL BE CENTERED WITHIN CEILING TILES. GC SHALL COORDINATE WITH OWNER'S SPEAKER SUPPLIER AND CUT HOLES IN CEILING AS REQUIRED FOR SPEAKER PLACEMENT.
A.7 HEIGHTS SHOWN AT CEILINGS ARE TO BOTTOM OF FINISH.
A.8 HEIGHTS SHOWN AT LIGHT FIXTURES ARE TO BOTTOM OF FIXTURE.
A.9 GC SHALL COORDINATE WITH CANOPY SHOP DRAWINGS FOR FINAL DIMENSIONS AT DRIVE-THRU CANOPY - INCLUDING BUT NOT LIMITED TO: OVERALL CANOPY DIMENSIONS AND LOCATIONS OF HEATERS, FANS AND LIGHTS.
A.10 SUSPENDED CEILING GRIDS TO BE CENTERED WITHIN ROOMS AS SHOW INRCP,TYP, UNLESS SPECIFIED W/A GRID START POINT.
A.11 HEAVY DASHED LINE INDICATES SMOKE PARTITION REQUIRED FOR NON-SPRINKLERED BUILDINGS. EXTEND WALL FRAMING FROM FINISH CEILING TO ROOF DECK TO FORM CONTINUOUS SMOKE PARTITION SEPERATING CEILING PLENUMINTO TWO DISTINCT VOLUMES. AT "BACK OF HOUSE" OR KITCHEN SIDE OF WALL. EXTEND WALL SHEATHING FROM FLOOR TO ROOF DECK. ON PUBLIC SIDE, EXTEND WALL SHEATHING FROM FLOOR TO 6" ABOVE FINISH CEILING. RE: DRAFTSTOPPING DETAIL A3/A-623.

RCP KEYNOTES

6	FRP CORNER GUARDS & TRIM AT COOLER AND FREEZER SOFFITS.
7	METAL CLOSURE PANELS ABOVE FREEZER AND COOLER. INSTALL AFTER CEILING GRID IS IN PLACE. RE: KITCHEN EQUIPMENT DRAWINGS.

REFLECTED CEILING PLAN LEGEND:

- LAY-IN CEILING TILE (ACT-1)
- LAY-IN CEILING TILE (ACT-2)
- CEILING GRID START POINT
- GYPSUM BOARD (PT-31A) RE: FINISH PLAN FOR FINISHES
- PREFINISHED METAL CANOPY BY CANOPY FABRICATOR
- 2' X 2' RECESSED LED LIGHT FIXTURE (B.O.H.) RE: ELECTRICAL
- 2' X 2' RECESSED EMERGENCY LED LIGHT FIXTURE (B.O.H.) RE: ELECTRICAL
- RECESSED CAN LIGHT FIXTURE RE: ELECTRICAL
- RECESSED EMERGENCY CAN LIGHT FIXTURE - RE: ELECTRICAL
- DOME LIGHT FIXTURE RE: ELECTRICAL
- DINING TABLE PENDANT RE: ELECTRICAL
- LED STRIP LIGHT RE: ELECTRICAL
- PEACH BASKET PENDANT RE: ELECTRICAL
- INTERIOR SCONCE LIGHT FIXTURE RE: ELECTRICAL
- EXTERIOR SCONCE LIGHT FIXTURE RE: ELECTRICAL
- EXIT LIGHT - WALL MOUNTED RE: ELECTRICAL
- COCA-COLA PENDANT FIXTURE
- SUPPLY AIR VENT RE: MECHANICAL
- RETURN AIR VENT RE: MECHANICAL
- WALL DIFFUSER RE: MECHANICAL
- AIR CURTAIN WALL-MOUNTED RE: MECHANICAL
- AIR CURTAIN RECESSED RE: MECHANICAL
- EXHAUST HOOD RE: MECHANICAL
- FLY LIGHT (BOH) RE: KITCHEN
- FLY LIGHT (FOH) RE: KITCHEN
- DROP CORDS RE: ELECTRICAL
- 3-SIDED PICK-UP SIGN MOUNTED TO CEILING GRID, PROVIDED BY OWNER
- MENU BOARDS
- DOWNSPOUT
- ROOF HATCH
- SPEAKER - VENDOR TO VERIFY LOCATIONS W/ GC
- DRAFTSTOPPING PARTITION REQUIRED FOR NON-SPRINKLERED BUILDINGS

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4	11/2/2022	HEALTH COMMENTS

CONSTRUCTION

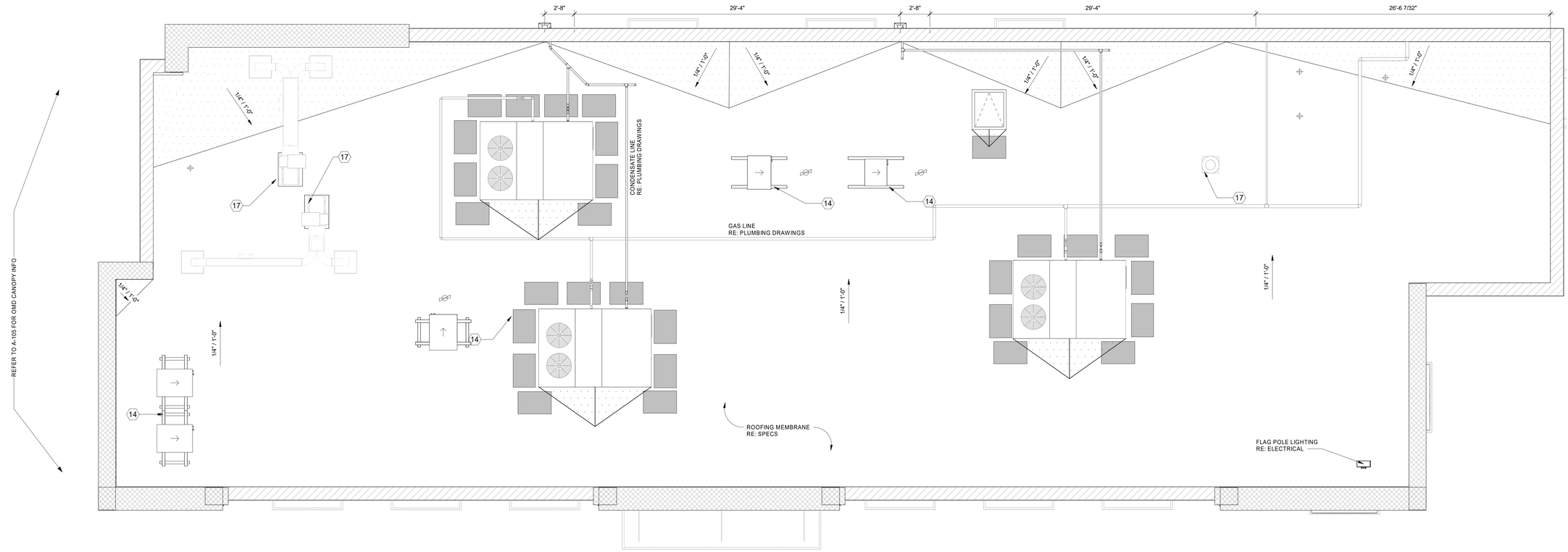
CONSULTANT PROJECT #	04591
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SHEET
REFLECTED CEILING PLAN

SHEET NUMBER
A-221

11/4/2022 11:53:32 AM
10-LE-04591-A-221-REFLECTED CEILING PLAN



C4 ROOF PLAN
1/4" = 1'-0"

ROOF PLAN LEGEND

- WHITE WALK PAD MEMBRANES WITH YELLOW SAFETY STRIPES, TYP.
- 2'-6" X 3'-0" ROOF HATCH. BILCO OR EQUAL.
- REMOTE CONDENSING UNIT. RE: KITCHEN EQUIPMENT SCHEDULE
- AIR FLOW DIRECTION
- RTU. RE: MECHANICAL
- 3/8" X 4 1/2" EYE SCREW ANCHORS (INSTALL 2x SOLID BLOCKING BETWEEN STUDS TO ATTACH ANCHOR). LOCATIONS APPROXIMATE. VERIFY WITH OWNER AND CONSTRUCTION MANAGER. RE: DETAIL D2/A504.
- PIPING PENETRATION. RE: D1/A-504 AND PLUMBING ROOF PLAN FOR PIPE DESCRIPTIONS
- 4"X16" SCUPPER, LEADER HEAD & DOWNSPOUT. RE: A3/A-503 & A2/A-503. RE: A-301 EXTERIOR ELEVATION FOR LOCATION.
- 4"X16" OVERFLOW SCUPPER. RE: A3/A-503 & A2/A-503. INSTALL WITH BOTTOM EDGE 2" ABOVE ROOF SURFACE. GC TO ENSURE SCUPPER IS INSTALLED DURING MAIN ROOFING OPERATION.
- EXTENDED PARAPET
- REGULAR PARAPET
- CRICKET
- FLAG POLE LIGHTING

ROOF PLAN GENERAL NOTES

A.1 R-VALUE OF RIGID INSULATION MAY VARY DEPENDING ON MANUFACTURER. GC SHALL BE RESPONSIBLE FOR VERIFYING APPROPRIATE THICKNESS TO MEET R-VALUE REQUIREMENTS.
A.2 VERTICAL ROOF MEMBRANE SURFACES ON VERTICAL BACK WALLS OF PARAPET AND KICKERS (WHERE USED) SHALL BE TAN. ALL OTHER ROOF MEMBRANES SURFACES SHALL BE WHITE.
A.3 PROVIDE PIPE SUPPORTS (NOT SHOWN HERE) FOR GAS AND CONDENSATE LINES AT 4'-0" O.C. MAX.
A.4 REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING ROOF PLANS FOR INFORMATION NOT SHOW HERE.
A.5 PAINT ALL EXPOSED GAS PIPING ON ROOF DARK BRONZE (2 COATS).
A.6 ALL CONDENSATE LINES SHALL BE INSTALLED TO PROVIDE POSITIVE DRAINAGE. GENERAL CONTRACTOR SHALL PROVIDE BLOCKING AS REQUIRED TO ELIMINATE SAGGING.
A.7 PROVIDE SIDEWALL MOUNTED LIGHT FIXTURE PER E1/A504. COORDINATE LOCATION WITH C.M.
A.8 ROOF PENETRATIONS TO BE INSTALLED PER DETAILS C2/A504 AND D1/A504.

ROOF PLAN KEYNOTES

1	CRICKET CONSTRUCTED OF ROOF MEMBRANE ON RIGID INSULATION - SLOPE AT 1/4" PER FT MIN
12	DISCHARGE CONDENSATE INTO DOWNSPOUT - RE: PLUMBING ROOF DRAWING.
14	ALUMINUM EQUIPMENT STAND SUPPORTS MANUFACTURED BY AVCOA CORPORATION OF FORT LAUDERDALE, FLORIDA OR APPROVED EQUAL. AT WALK-IN CONDENSERS - (2 STANDS) EACH CONSISTING OF (2) 5'-0" LONG RAILS SPACED 31" APART. AT ICE MAKER CONDENSERS - (3 STANDS) EACH CONSISTING OF (2) 5'-0" LONG RAILS SPACED 24" APART WITH (2) SUPPORTS UNDERNEATH. STANDS SHALL PROVIDE 18" MINIMUM CLEARANCE (48" O.C. AT ICE MAKER CONDENSERS) AND SHALL BE SIZED INSTALLED ACCORDING TO THE MANUFACTURER'S LOAD CHARTS AND PRINTED INSTALLATION DETAILS. CONTACT: 800-266-7212.
17	EXHAUST FAN. RE: MECHANICAL.
18	COMBUSTION AIR VENT. RE: MECHANICAL & PLUMBING.
19	TENANT SHALL PROVIDE GREASE GUARDS UNDER ALL KITCHEN ROOF EXHAUST FANS. GC TO CONTACT ROOFTOP SOLUTIONS PER MECH. DRAWINGS.

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EMAIL: GENMAIL@EANDHARCH.COM

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT
1	03/29/2022	DESIGN NOTES

CONSTRUCTION

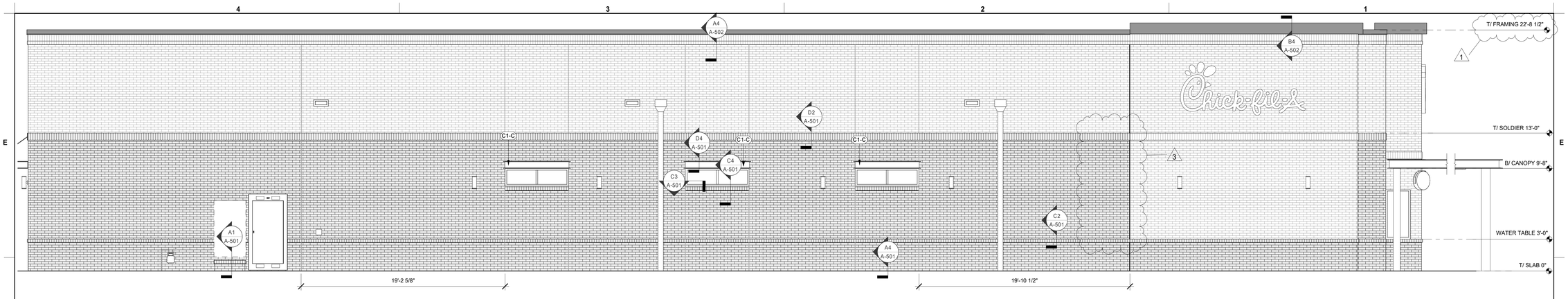
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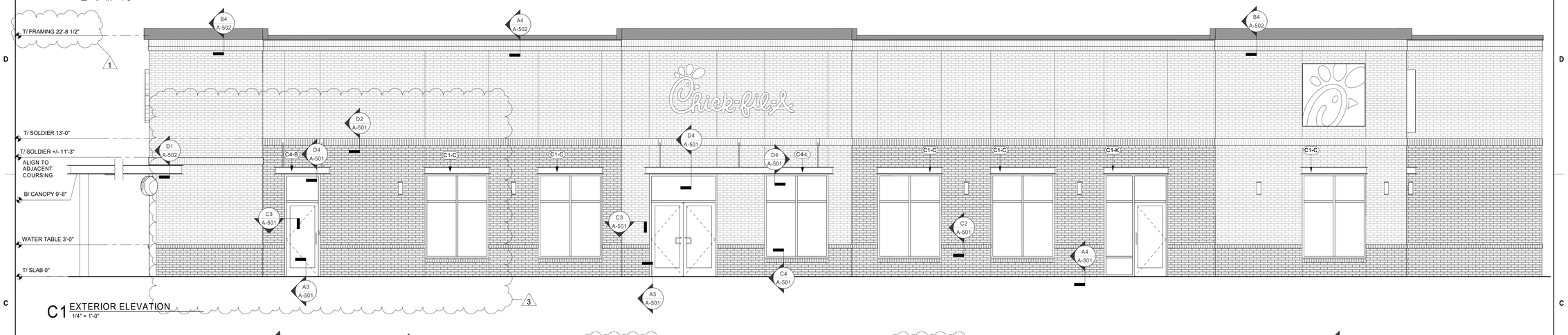
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ROOF PLAN

SHEET NUMBER
A-230

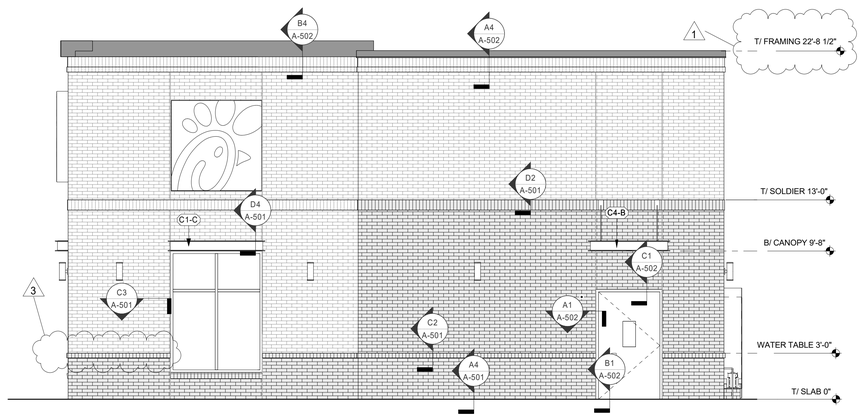
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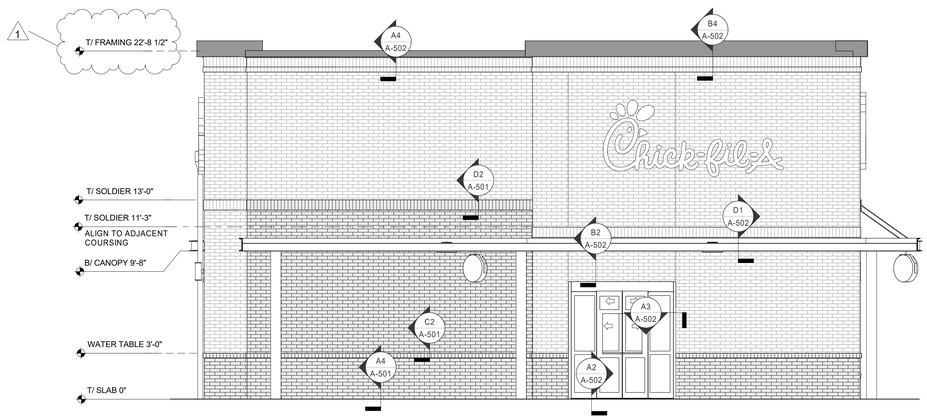
D1 EXTERIOR ELEVATION
1/4" = 1'-0"



C1 EXTERIOR ELEVATION
1/4" = 1'-0"



B3 EXTERIOR ELEVATION
1/4" = 1'-0"



B1 EXTERIOR ELEVATION
1/4" = 1'-0"

FINISH SCHEDULE - EXTERIOR

MARK	DESCRIPTION	MANUFACTURER	MODEL NAME	MODEL NUMBER	COLOR	NOTE
BR-A	BRICK VENEER (PRIMARY)	GLEN-GERY	MODULAR	*	KHAKI MATT	MORTAR: SAN TAN BY ARGOS
BR-B	BRICK VENEER (ACCENT)	GLEN-GERY	MODULAR	*	WHITEHALL	MORTAR: SAN TAN BY ARGOS
CP-1	CANOPY METAL FASCIA		DURA COAT	DC19ST-2703	DARK BRONZE	OIL RUBBED BRONZE METALLIC TEXTURE PVD
CP-2	CANOPY METAL DECK				WHITE	SMOOTH WHITE, HIGH GLOSS
EC-1	PARAPET WALL COPING	DUROLAST / EXCEPTIONAL METALS			MIDNIGHT BRONZE	
PT-100	EXTERIOR PAINT	SHERWIN WILLIAMS	SHER-CRYL HIGH PERFORMANCE ACRYLIC #B66-350	SW 2807	ROOKWOOD	REFUSE ENCLOSURE. FINISH: SEMI-GLOSS ON DOOR FRAMES, SATIN ON WALLS
PT-113	EXTERIOR PAINT	SHERWIN WILLIAMS	SHER-CRYL HIGH PERFORMANCE ACRYLIC #B66-350		DARK BRONZE	FINISH: SEMI-GLOSS
ST-1	STOREFRONT	YKK	YES 45		DARK BRONZE (MATTE)	

ATTACHED CANOPY SCHEDULE

Mark	Description	Count	Overall Width	Overall Depth	Tie Back Mounting (Offset From Top)	Integral Lighting
C1-C	Exterior Canopy	9	6'-4"	1'-0"	0"	No
C1-K	Exterior Canopy	1	6'-4"	1'-0"	0"	Yes
C4-B	Exterior Canopy	2	5'-4"	4'-0"	2'-4"	Yes
C4-L	Exterior Canopy	1	17'-10 1/2"	4'-0"	2'-4"	Yes
Grand total		13				

GENERAL NOTES
1. ALL SIGNAGE PROVIDED BY OTHERS
2. REF FLOOR PLAN AND WINDOW LEGEND FOR STOREFRONT INFORMATION

CANOPY NOTES:

BUILDING MOUNTED CANOPIES
- 8" THICK CANOPY
- KYNAR FINISH OF STRUCTURE, FASCIA, & DECKING TO MATCH (CP-1)

COLUMN MOUNTED CANOPIES
- 10" THICK CANOPY
- FINISH OF STRUCTURE TO BE (CP-1)
- FINISH OF DECKING TO BE (CP-2)

LEGEND

BR-B
BR-A
EC-1

EXPANSION JOINT, SEALANT COLOR TO MATCH MORTAR COLOR
CARD READER BY SECURITY VENDOR - RE: ELEC
SCUPPER - (PT-113) SEE A2 / A-503
DOWNSPOUT - (PT-113) SEE A3 / A-503
MDP - (PT-113) RE: ELECTRICAL
CO2 FILL BOX - RE: KITCHEN
LIGHT FIXTURE - RE: ELECTRICAL
8'-0" TYP
CT CABINET - (PT-113) RE: ELECTRICAL

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ROY A. WILLIAMS ARCHITECT
License No: 21AI02240800
Issue Date: 05/16/2022
Expiration Date: 07/31/2023

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CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

CONSTRUCTION

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

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1	03/29/2022	DESIGN NOTES
3	07/22/2022	DESIGN NOTES

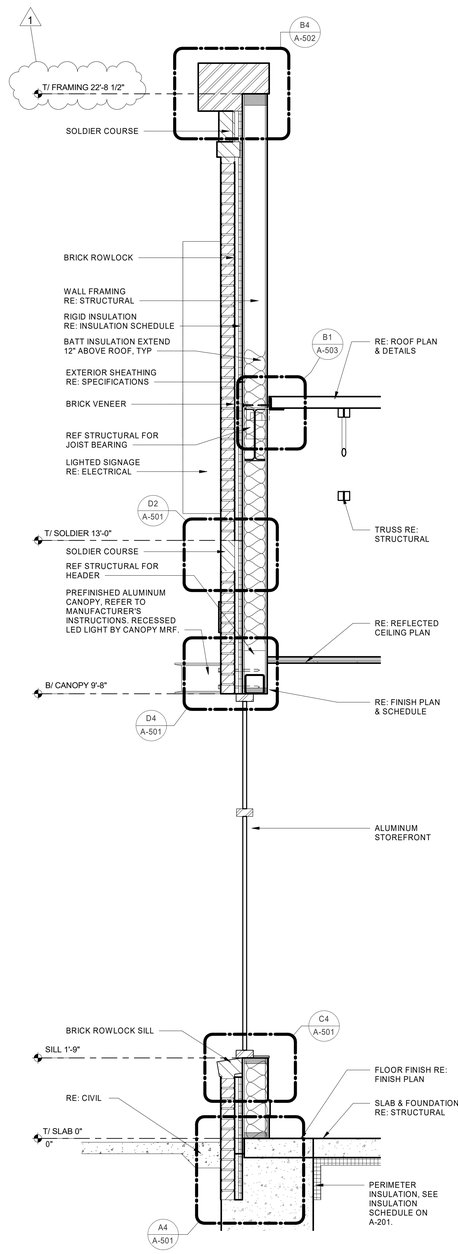
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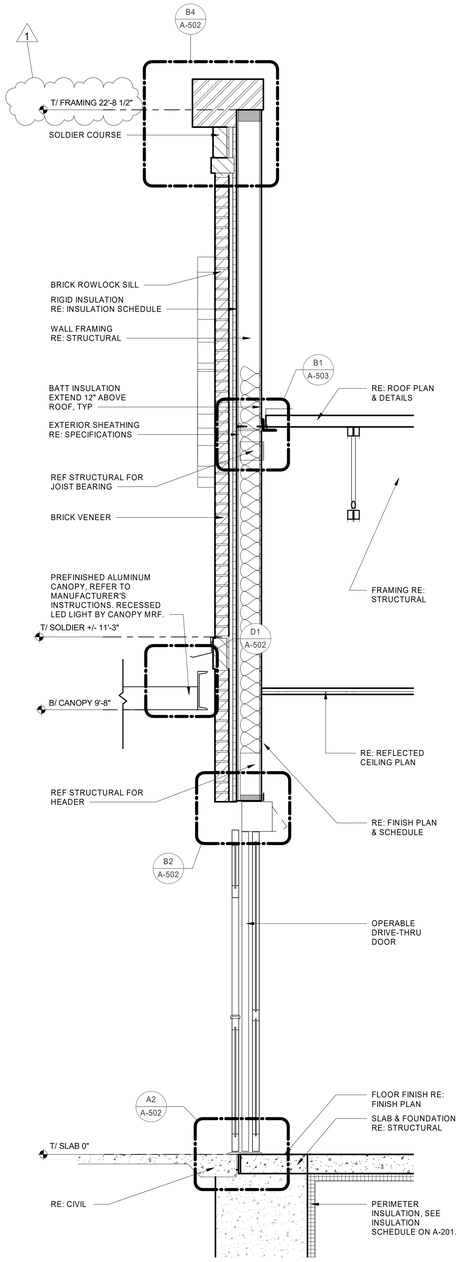
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EXTERIOR ELEVATIONS

SHEET NUMBER
A-301

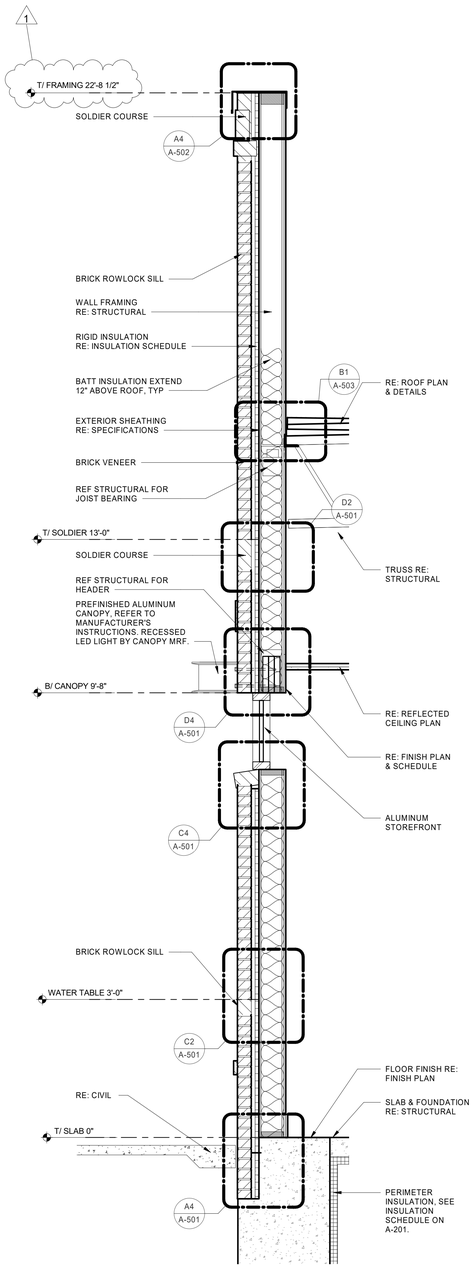
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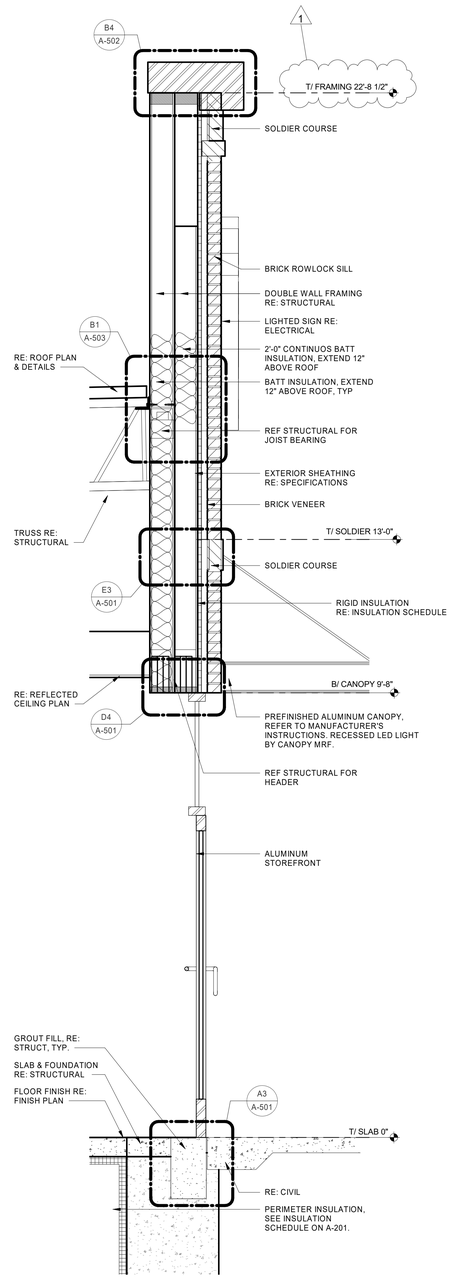
A4 WALL SECTION
3/4" = 1'-0"



A3 WALL SECTION
3/4" = 1'-0"



A2 WALL SECTION
3/4" = 1'-0"



A1 WALL SECTION
3/4" = 1'-0"

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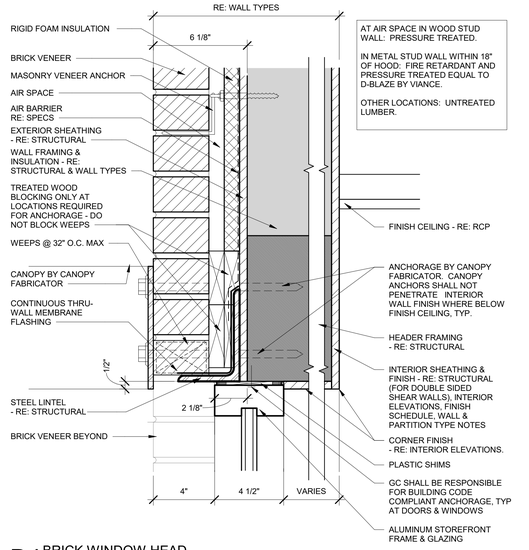
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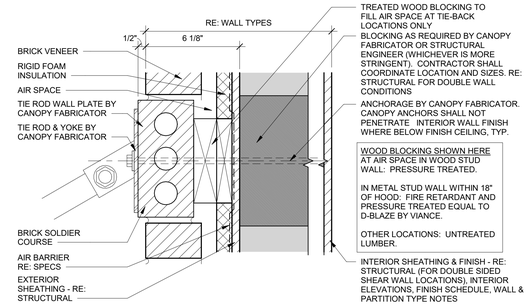
SHEET
WALL SECTIONS

SHEET NUMBER
A-401

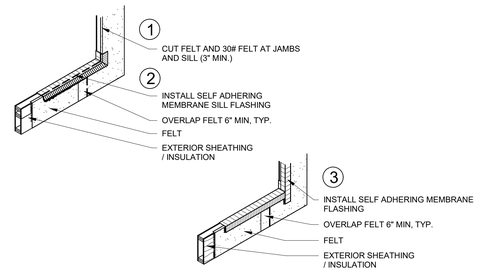
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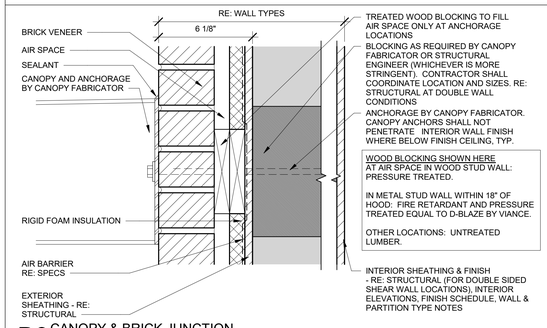
D4 BRICK WINDOW HEAD
3" = 1'-0"



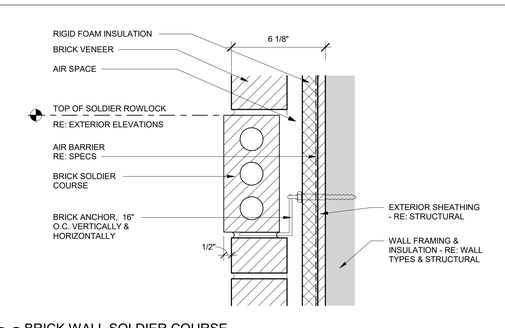
E3 CANOPY TIE-ROD & BRICK JUNCTION
3" = 1'-0"



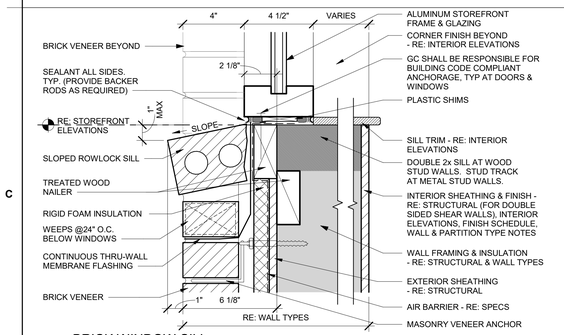
E2 TYPICAL FLASHING AT BRICK JAMBS & SILL
1/4" = 1'-0"



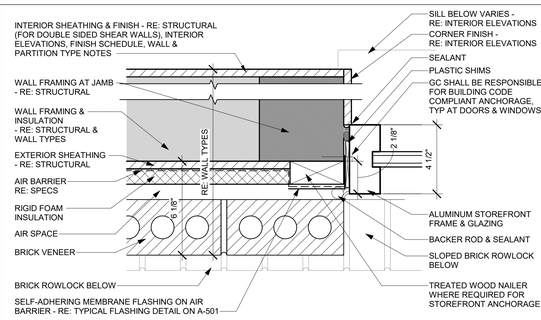
D3 CANOPY & BRICK JUNCTION
3" = 1'-0"



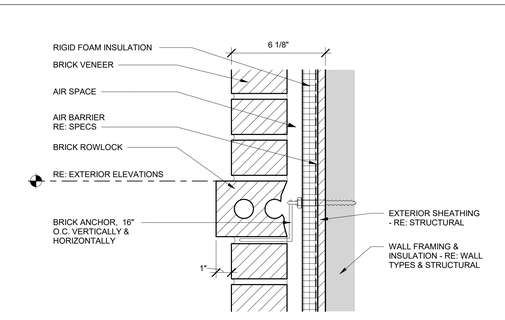
D2 BRICK WALL SOLDIER COURSE
3" = 1'-0"



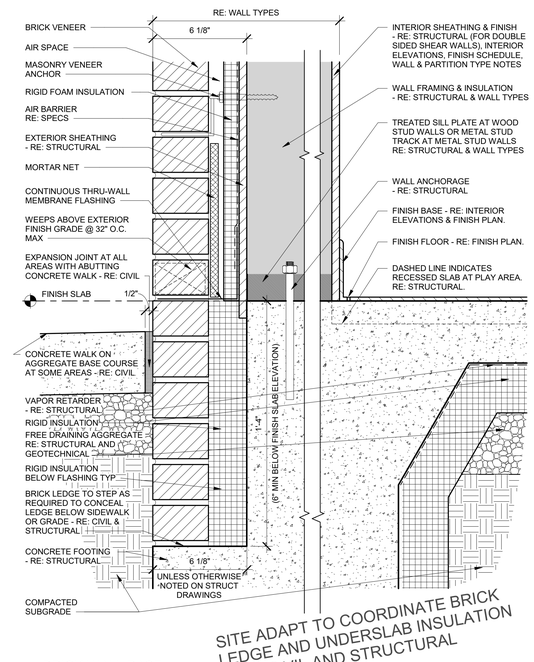
C4 BRICK WINDOW SILL
3" = 1'-0"



C3 WINDOW JAMB AT NON-RECESSED BRICK
3" = 1'-0"

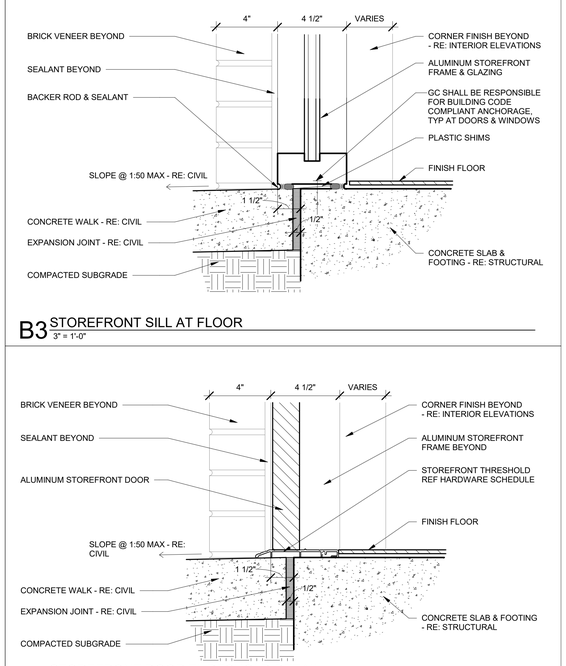


C2 BRICK WALL ROWLOCK SILL
3" = 1'-0"



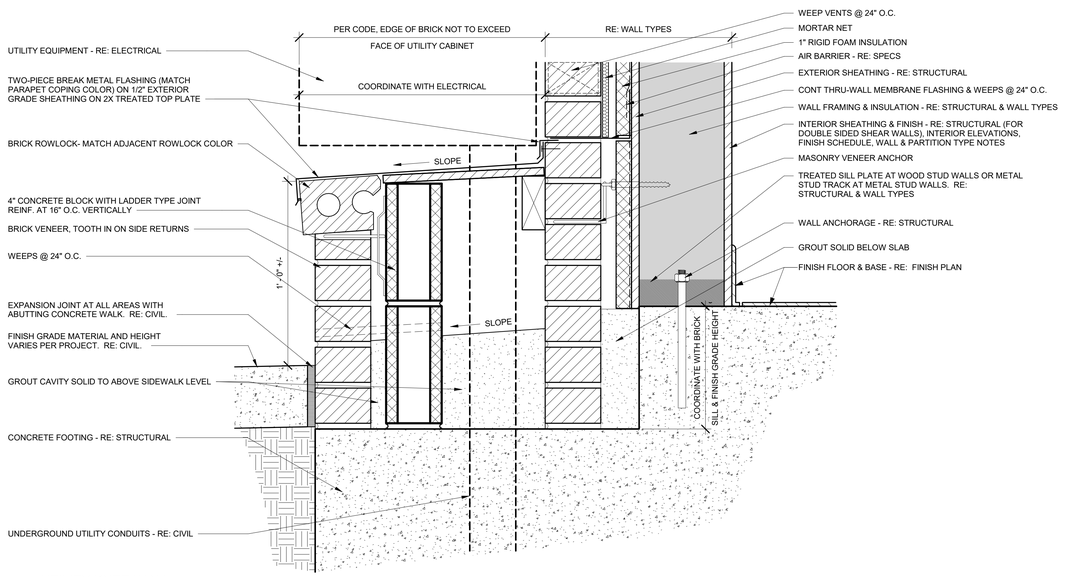
SITE ADAPT TO COORDINATE BRICK LEDGE AND UNDERSLAB INSULATION WITH CIVIL AND STRUCTURAL

A4 BRICK WALL BASE
3" = 1'-0"



B3 STOREFRONT SILL AT FLOOR
3" = 1'-0"

A3 STOREFRONT DOOR THRESHOLD DETAIL
3" = 1'-0"



A1 UTILITY KNEE WALL
3" = 1'-0"

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FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

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	01/26/2022	ISSUED FOR PERMIT

PERMIT

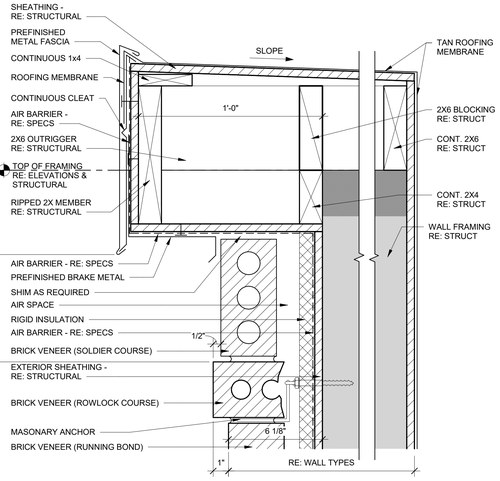
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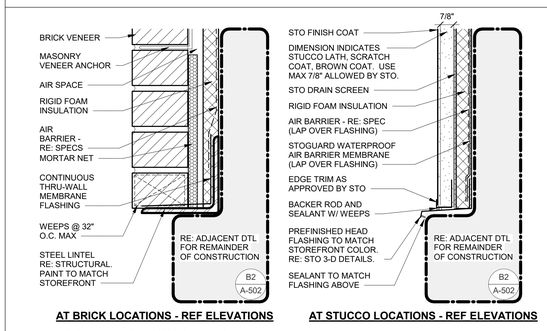
SHEET
EXTERIOR DETAILS

SHEET NUMBER
A-501

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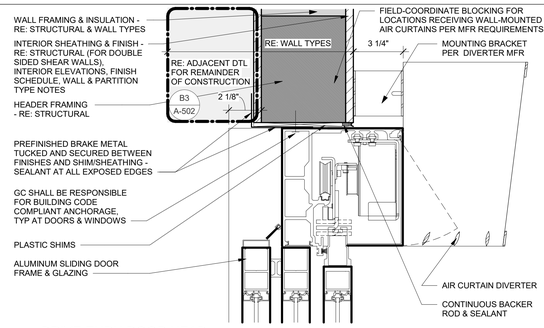


B4 EXTENDED PARAPET DETAIL - BRICK
3" = 1'-0"

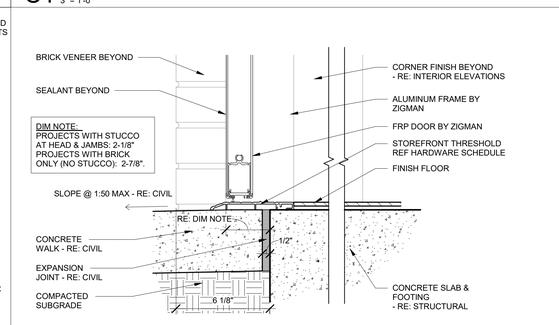


AT BRICK LOCATIONS - REF ELEVATIONS **AT STUCCO LOCATIONS - REF ELEVATIONS**

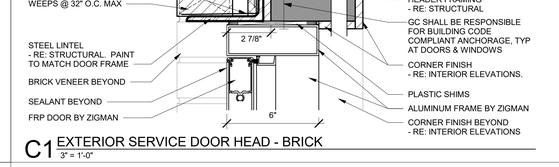
B3 DRIVE-THRU DOOR HEAD - FINISHES
3" = 1'-0"



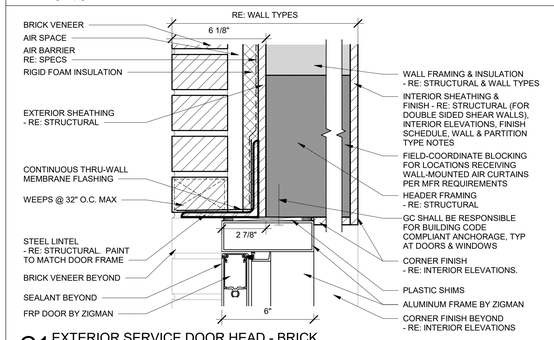
B2 DRIVE-THRU DOOR HEAD
3" = 1'-0"



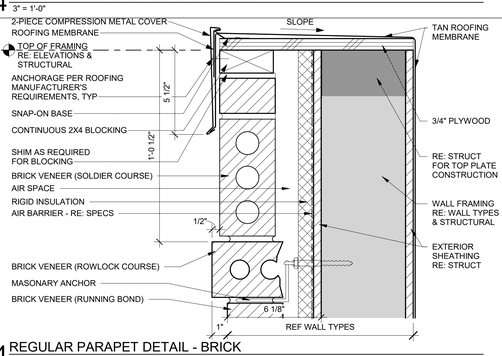
B1 EXTERIOR SERVICE DOOR THRESHOLD
3" = 1'-0"



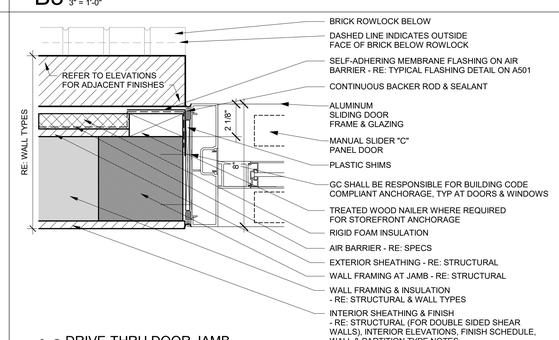
D1 DETACHED CANOPY FLASHING DETAIL
3" = 1'-0"



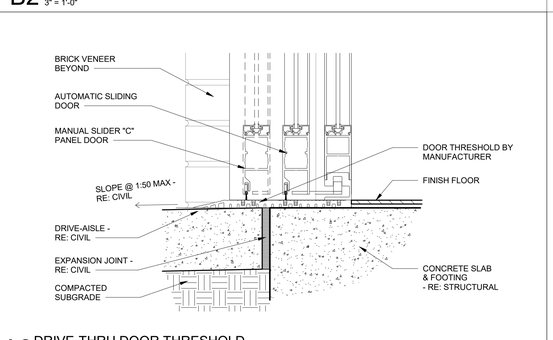
C1 EXTERIOR SERVICE DOOR HEAD - BRICK
3" = 1'-0"



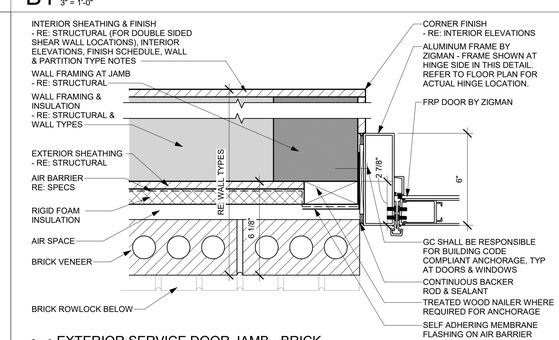
A4 REGULAR PARAPET DETAIL - BRICK
3" = 1'-0"



A3 DRIVE-THRU DOOR JAMB
3" = 1'-0"



A2 DRIVE-THRU DOOR THRESHOLD
3" = 1'-0"



A1 EXTERIOR SERVICE DOOR JAMB - BRICK
3" = 1'-0"

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CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT

PERMIT

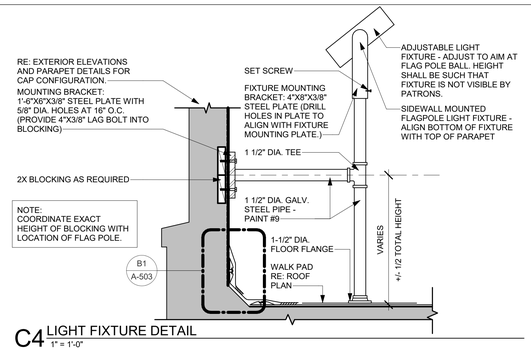
CONSULTANT PROJECT # 04591
PRINTED FOR PERMIT
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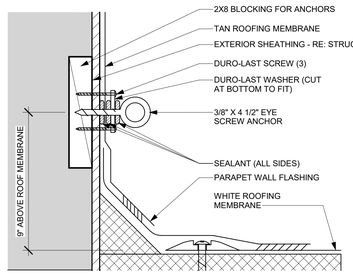
SHEET
EXTERIOR DETAILS

SHEET NUMBER
A-502

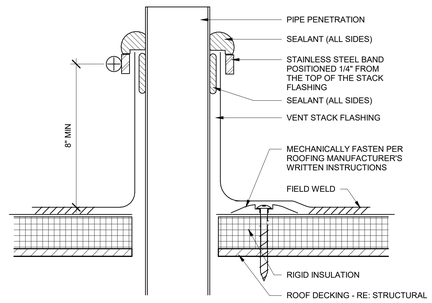
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10-LE-04591-A-502-EXTERIOR DETAILS



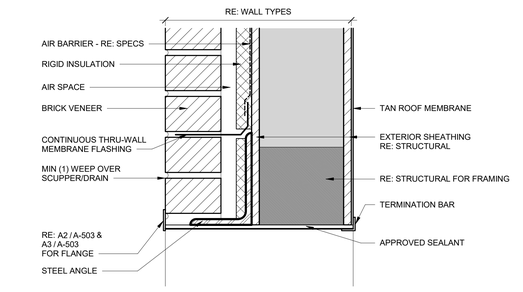
C4 LIGHT FIXTURE DETAIL
1" = 1'-0"



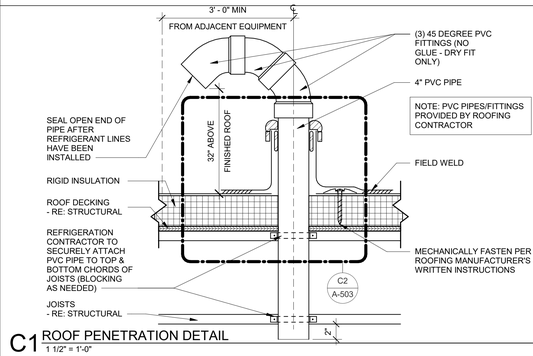
C3 TYP PARAPET ANCHOR DETAIL
3" = 1'-0"



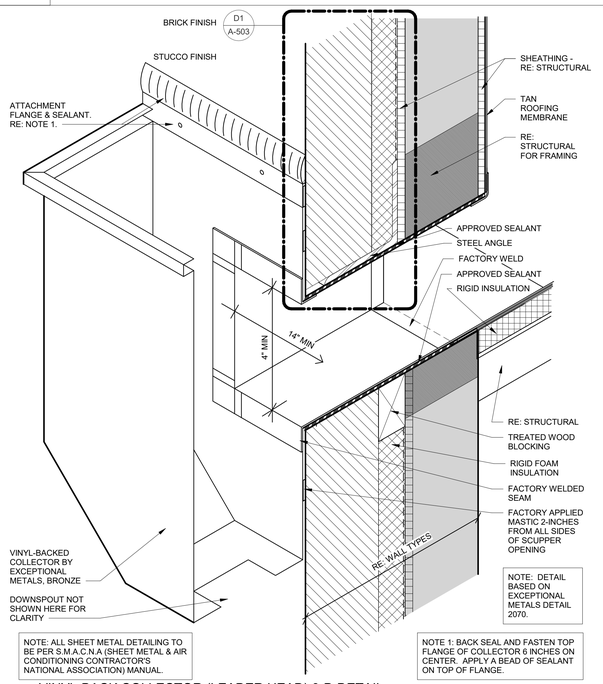
C2 TYP ROOF PENETRATION DETAIL
3" = 1'-0"



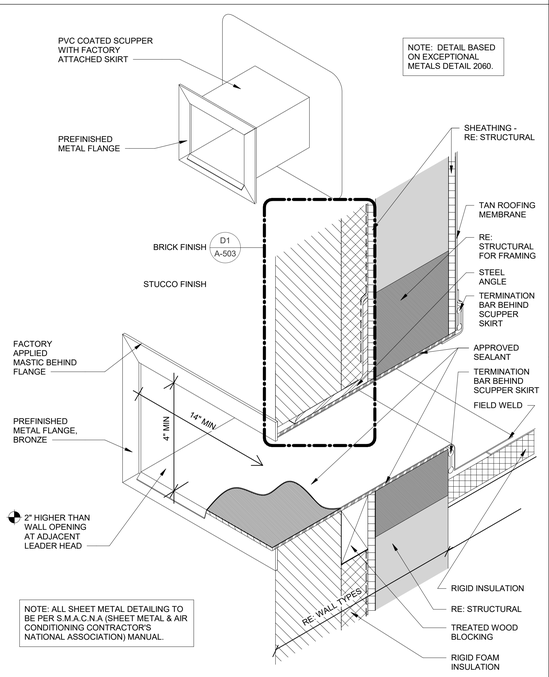
D1 SCUPPER/DRAIN DETAIL - BRICK
3" = 1'-0"



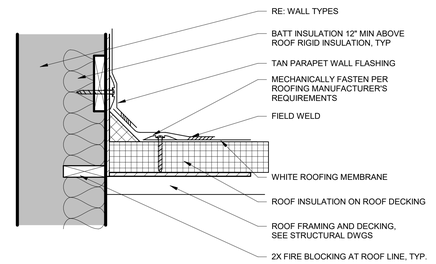
C1 ROOF PENETRATION DETAIL
1 1/2" = 1'-0"



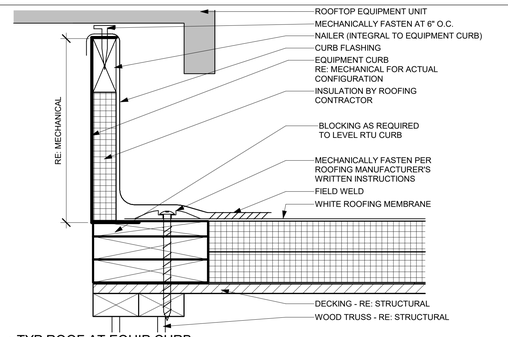
A3 VINYL-BACK COLLECTOR (LEADER HEAD) 3-D DETAIL
3" = 1'-0"



A2 OVERFLOW SCUPPER 3-D DETAIL
3" = 1'-0"



B1 TYP ROOF TO WALL SECTION
1 1/2" = 1'-0"



A1 TYP ROOF AT EQUIP CURB
3" = 1'-0"

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BUILDING TYPE / SIZE: P13 LE LRG
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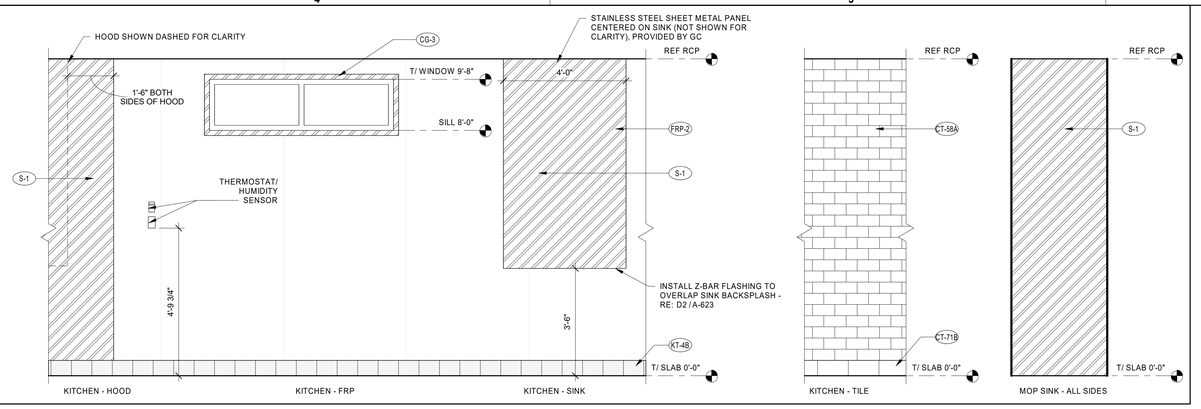
CONSULTANT PROJECT # 04591
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SHEET: EXTERIOR DETAILS

SHEET NUMBER **A-503**

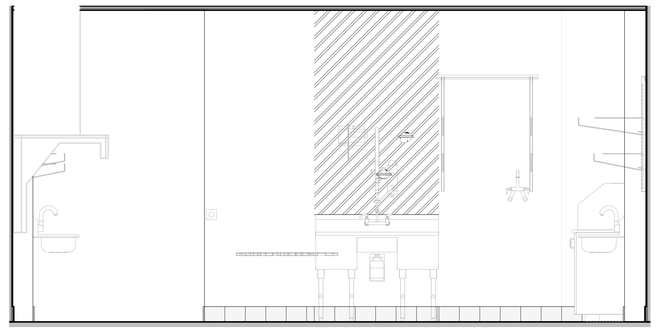
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10-LE-04591-A-503-EXTERIOR DETAILS



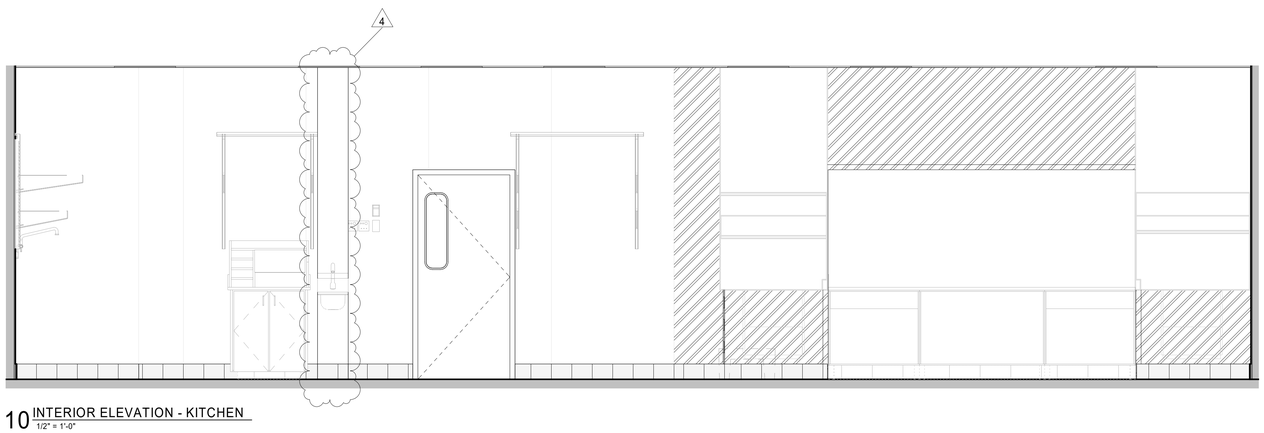
KITCHEN STANDARD ELEVATIONS
1/2" = 1'-0"

INTERIOR ELEVATION GENERAL NOTES

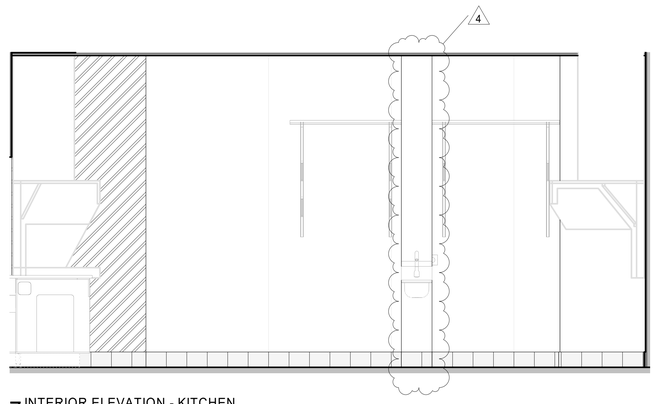
A.1 REFER TO SHEET E3 / A-624 FOR WAINSCOT DETAILS.
A.2 GC TO PROVIDE BLOCKING FOR ALL WALL SHELVING AND EQUIPMENT. REFER TO K SHEETS FOR LOCATIONS. REFER TO A4 / A-623 FOR DETAIL.
A.3. PROVIDE 5" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN DINING ROOM AND VESTIBULE.
A.4 PROVIDE 12" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN KITCHEN.
A.5 PROVIDE CEMENTITIOUS BOARD SUBSTRATE FOR THE FULL HEIGHT OF TILE AT ALL WALLS WITH WALL TILE.
A.6 AT WAINSCOT LOCATIONS, PROVIDE 5" HIGH CEMENTITIOUS BOARD BEHIND TILE BASE, THEN PLYWOOD SUBSTRATE TO TOP OF WAINSCOT, THEN GYPSUM BOARD TO CEILING.
A.7 BRAND ICON DIRECTION: WHEN ENTERING THE STORE FROM THE MAIN ENTRY, THE BEAK SHOULD POINT TO THE RIGHT.
A.8 REFER TO FRN SHEETS FOR SIGNAGE LOCATIONS.
A.9 REFER TO A4 / A-624 FOR DETAIL.
REFER TO C3 / A-604 FOR CORNER GUARD DETAIL, REFER TO PLANS AND ELEVATIONS FOR LOCATIONS.



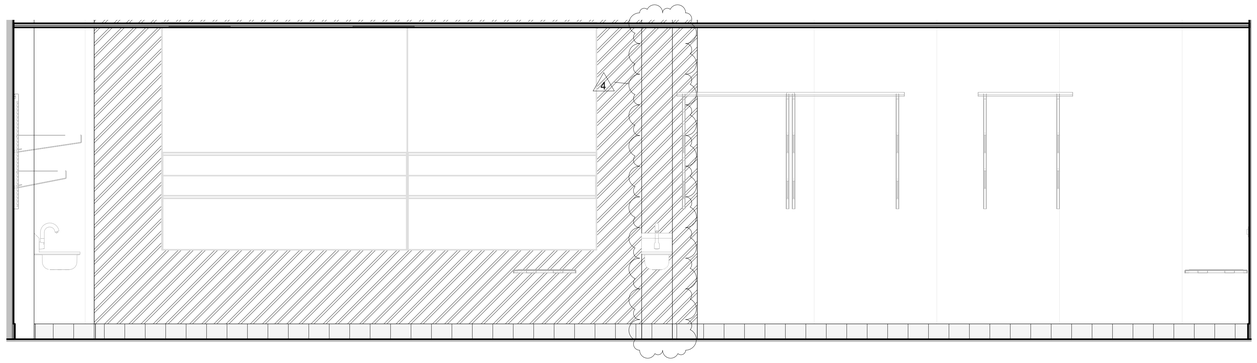
9 INTERIOR ELEVATION - KITCHEN
1/2" = 1'-0"



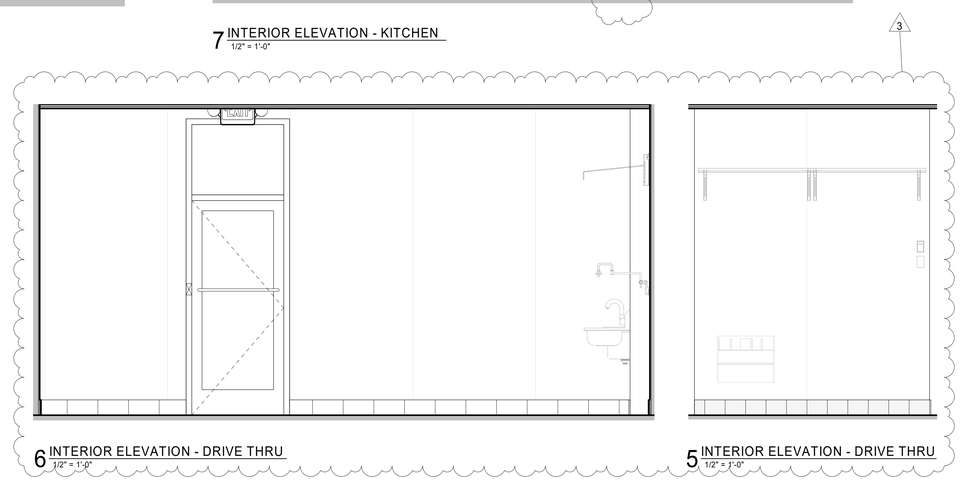
10 INTERIOR ELEVATION - KITCHEN
1/2" = 1'-0"



7 INTERIOR ELEVATION - KITCHEN
1/2" = 1'-0"

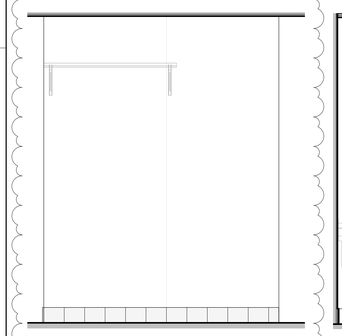


8 INTERIOR ELEVATION - KITCHEN
1/2" = 1'-0"

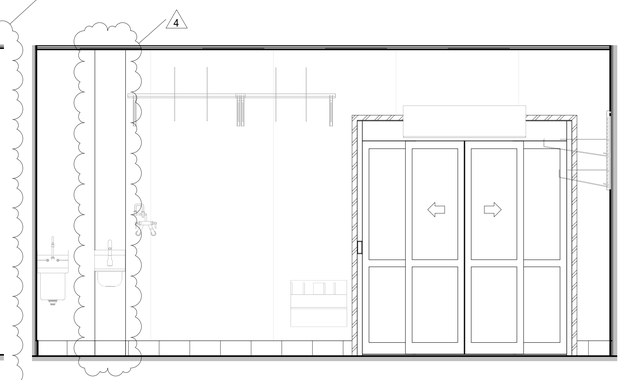


6 INTERIOR ELEVATION - DRIVE THRU
1/2" = 1'-0"

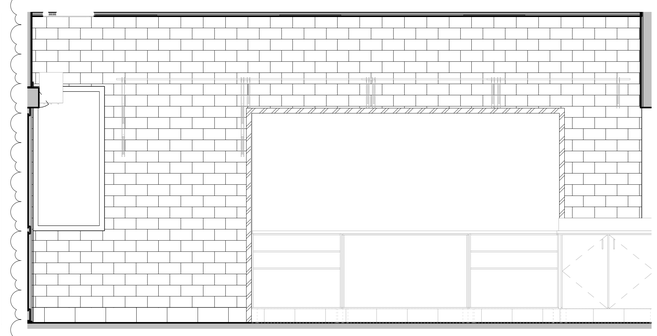
5 INTERIOR ELEVATION - DRIVE THRU
1/2" = 1'-0"



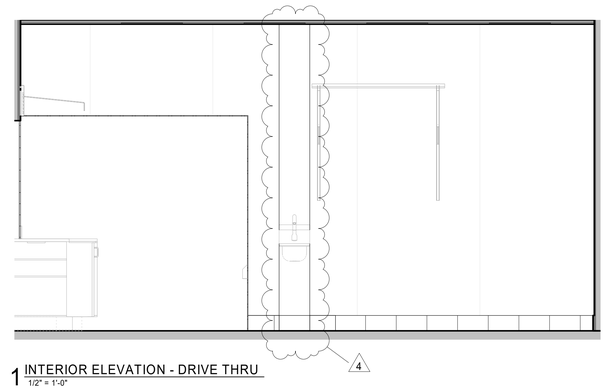
4 INTERIOR ELEVATION - DRIVE THRU
1/2" = 1'-0"



3 INTERIOR ELEVATION - DRIVE THRU
1/2" = 1'-0"



2 INTERIOR ELEVATION - DRIVE THRU
1/2" = 1'-0"



1 INTERIOR ELEVATION - DRIVE THRU
1/2" = 1'-0"

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Issue Date: 05/16/2022
Expiration Date: 07/31/2023

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CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT
3	07/22/2022	DESIGN NOTES
4	11/2/2022	HEALTH COMMENTS

CONSTRUCTION

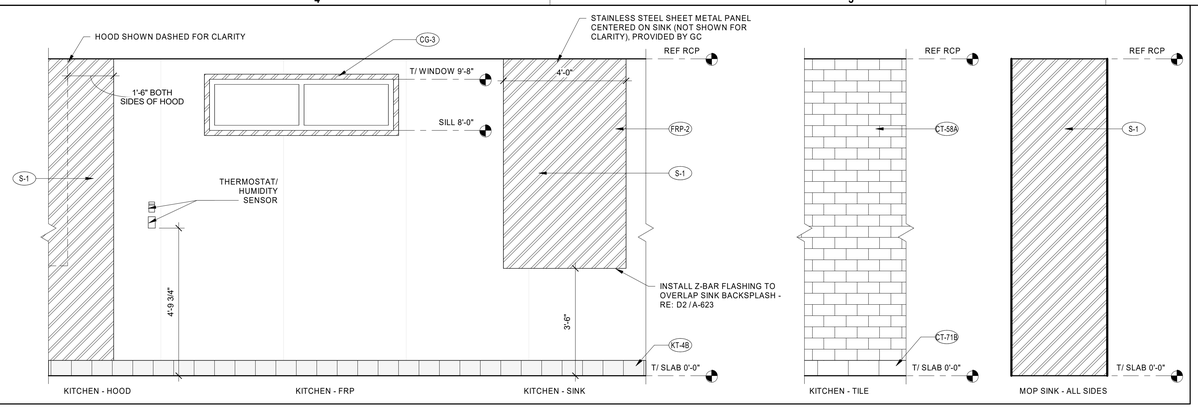
CONSULTANT PROJECT # 04591
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SHEET
KITCHEN ELEVATIONS AND DETAILS

SHEET NUMBER
A-601

11/4/2022 11:53:40 AM
10-LE-04591-A-601-KITCHEN ELEVATIONS AND DETAILS

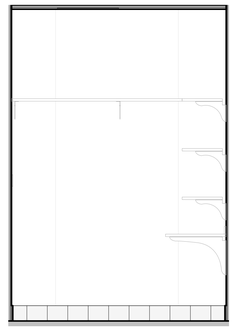


KITCHEN STANDARD ELEVATIONS

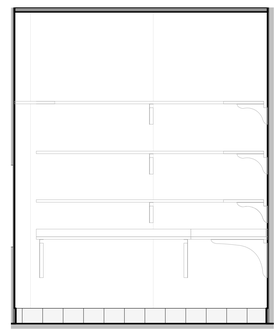
1/2" = 1'-0"

INTERIOR ELEVATION GENERAL NOTES

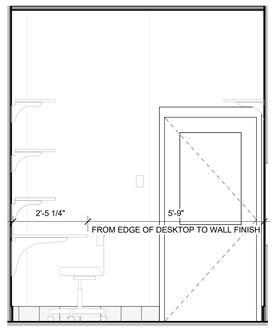
A.1 REFER TO SHEET E3 / A-624 FOR WAINSCOT DETAILS.
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A.9 REFER TO A4 / A-624 FOR DETAIL.
REFER TO CG 3 / A-604 FOR CORNER GUARD DETAIL, REFER TO PLANS AND ELEVATIONS FOR LOCATIONS.



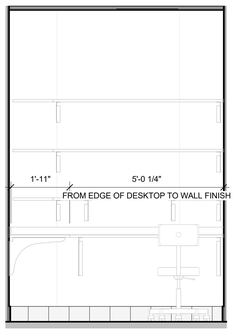
15 INTERIOR ELEVATION - OFFICE
1/2" = 1'-0"



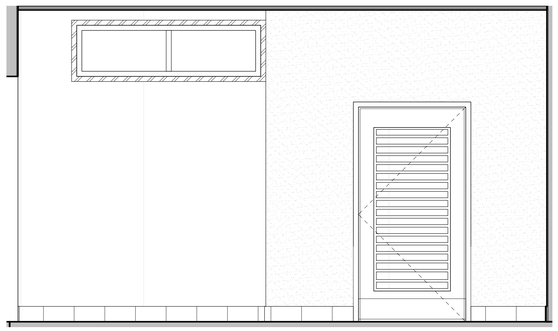
14 INTERIOR ELEVATION - OFFICE
1/2" = 1'-0"



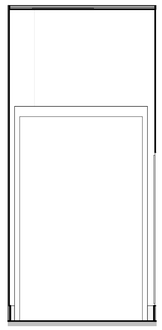
12 INTERIOR ELEVATION - OFFICE
1/2" = 1'-0"



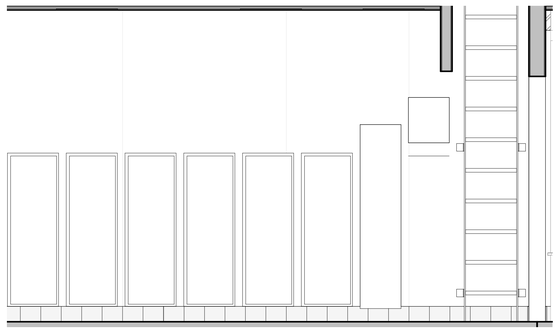
13 INTERIOR ELEVATION - OFFICE
1/2" = 1'-0"



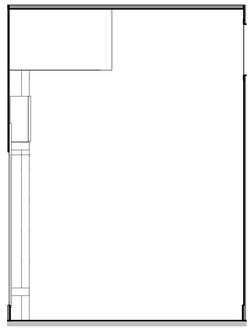
10 INTERIOR ELEVATION - MULTI-PURPOSE
1/2" = 1'-0"



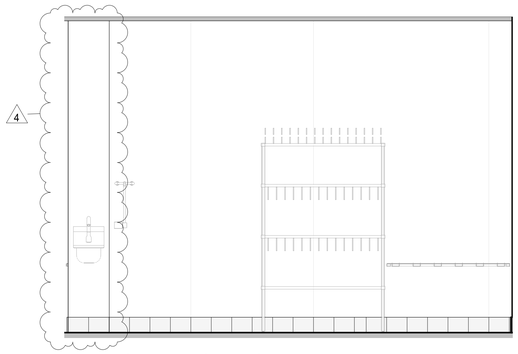
9 INTERIOR ELEVATION - MULTI-PURPOSE
1/2" = 1'-0"



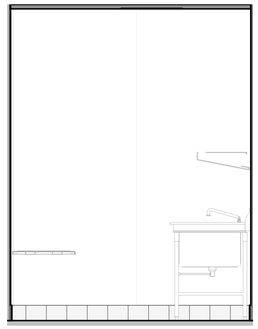
8 INTERIOR ELEVATION - MULTI-PURPOSE
1/2" = 1'-0"



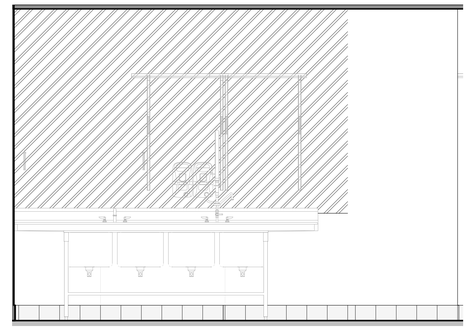
11 INTERIOR ELEVATION - MULTI-PURPOSE
1/2" = 1'-0"



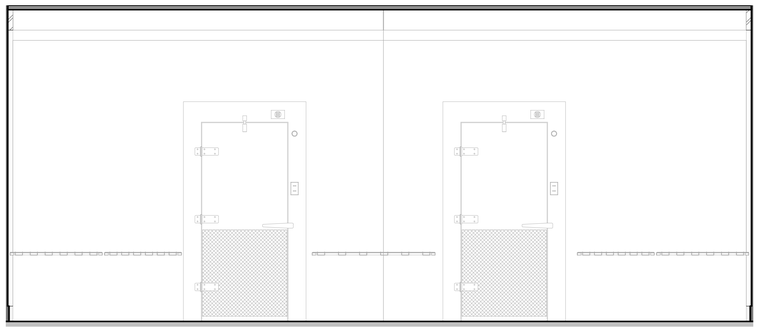
7 INTERIOR ELEVATION - KITCHEN
1/2" = 1'-0"



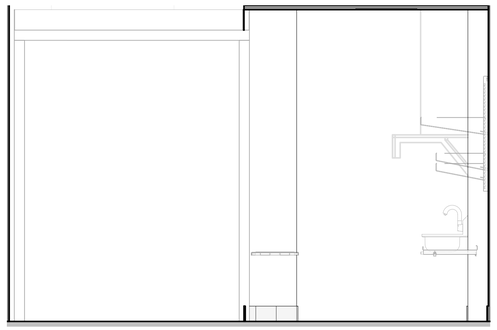
6 INTERIOR ELEVATION - KITCHEN
1/2" = 1'-0"



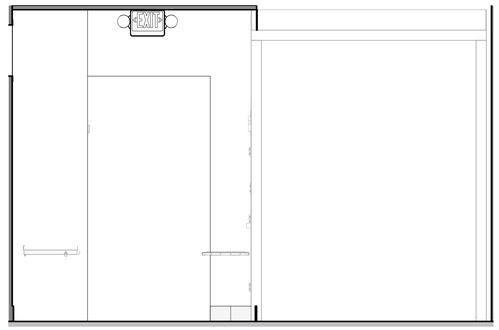
5 INTERIOR ELEVATION - KITCHEN
1/2" = 1'-0"



4 INTERIOR ELEVATION - KITCHEN
1/2" = 1'-0"



3 INTERIOR ELEVATION - KITCHEN
1/2" = 1'-0"



1 INTERIOR ELEVATION - KITCHEN
1/2" = 1'-0"

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CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

CONSTRUCTION

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT
4	11/2/2022	HEALTH COMMENTS

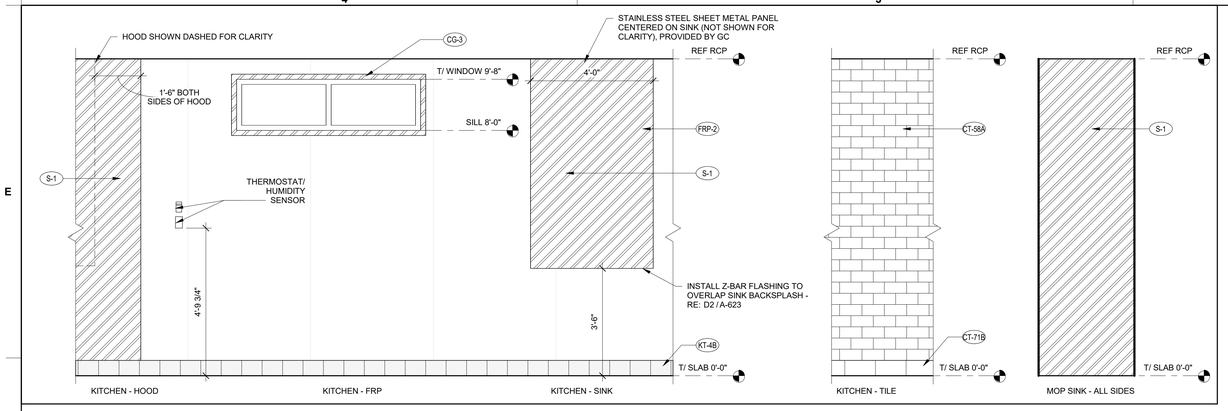
CONSULTANT PROJECT # 04591
PRINTED FOR CONSTRUCTION
DATE 1/26/22
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SHEET
KITCHEN ELEVATIONS AND DETAILS

SHEET NUMBER
A-602

11/4/2022 11:53:51 AM
10-LE-04591-A-602-KITCHEN ELEVATIONS AND DETAILS

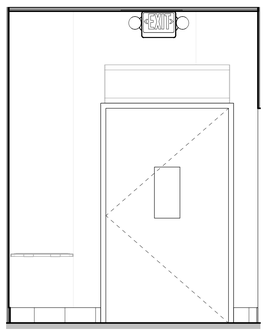


KITCHEN STANDARD ELEVATIONS

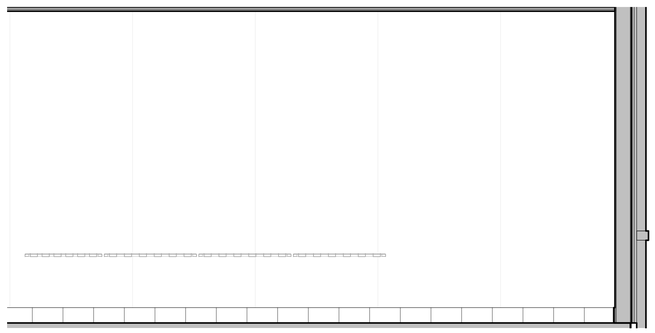
1/2" = 1'-0"

INTERIOR ELEVATION GENERAL NOTES

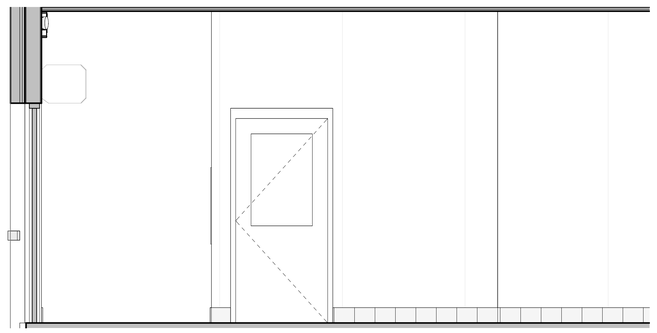
A.1 REFER TO SHEET E3 / A-624 FOR WAINSCOT DETAILS.
A.2 GC TO PROVIDE BLOCKING FOR ALL WALL SHELVING AND EQUIPMENT. REFER TO K SHEETS FOR LOCATIONS. REFER TO A4 / A-623 FOR DETAIL.
A.3. PROVIDE 5" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN DINING ROOM AND VESTIBULE.
A.4 PROVIDE 12" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN KITCHEN.
A.5 PROVIDE CEMENTITIOUS BOARD SUBSTRATE FOR THE FULL HEIGHT OF TILE AT ALL WALLS WITH WALL TILE.
A.6 AT WAINSCOT LOCATIONS, PROVIDE 5" HIGH CEMENTITIOUS BOARD BEHIND TILE BASE, THEN PLYWOOD SUBSTRATE TO TOP OF WAINSCOT, THEN GYPSUM BOARD TO CEILING.
A.7 BRAND ICON DIRECTION: WHEN ENTERING THE STORE FROM THE MAIN ENTRY, THE BEAK SHOULD POINT TO THE RIGHT.
A.8 REFER TO FRN SHEETS FOR SIGNAGE LOCATIONS. REFER TO A4 / A-624 FOR DETAIL.
A.9 REFER TO C3 / A-604 FOR CORNER GUARD DETAIL, REFER TO PLANS AND ELEVATIONS FOR LOCATIONS.



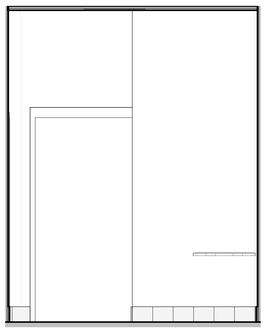
8 INTERIOR ELEVATION - SERVICE
1/2" = 1'-0"



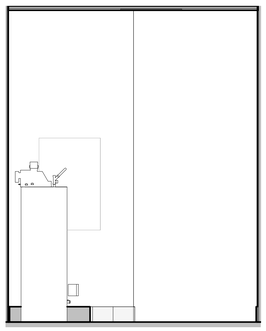
7 INTERIOR ELEVATION - SERVICE
1/2" = 1'-0"



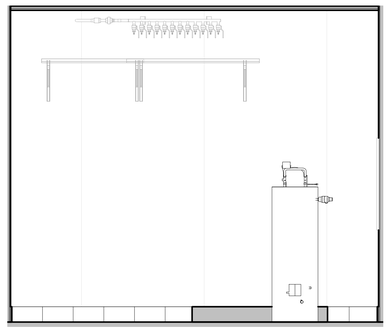
6 INTERIOR ELEVATION - SERVICE
1/2" = 1'-0"



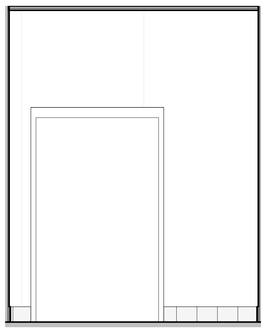
5 INTERIOR ELEVATION - SERVICE
1/2" = 1'-0"



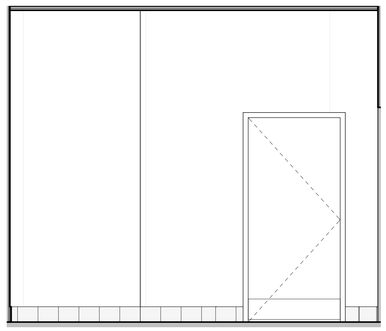
4 INTERIOR ELEVATION - SERVICE
1/2" = 1'-0"



3 INTERIOR ELEVATION - SERVICE
1/2" = 1'-0"



2 INTERIOR ELEVATION - SERVICE
1/2" = 1'-0"



1 INTERIOR ELEVATION - SERVICE
1/2" = 1'-0"

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5200 Buffington Road
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CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

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PERMIT

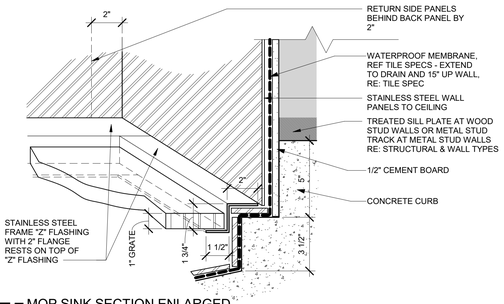
CONSULTANT PROJECT # 04591
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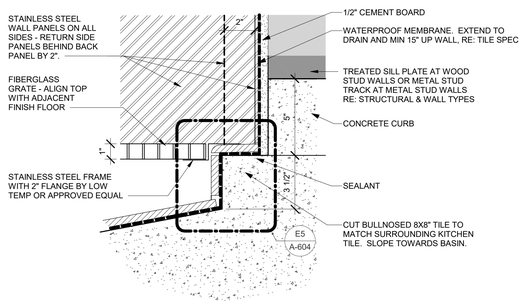
SHEET
KITCHEN ELEVATIONS AND DETAILS

SHEET NUMBER
A-603

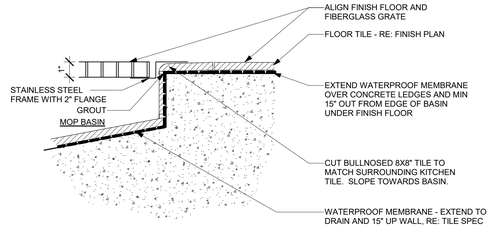
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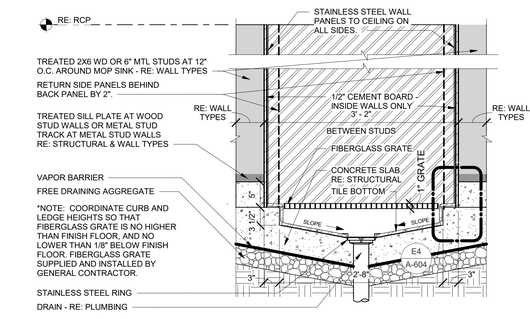
E5 MOP SINK SECTION ENLARGED
3" = 1'-0"



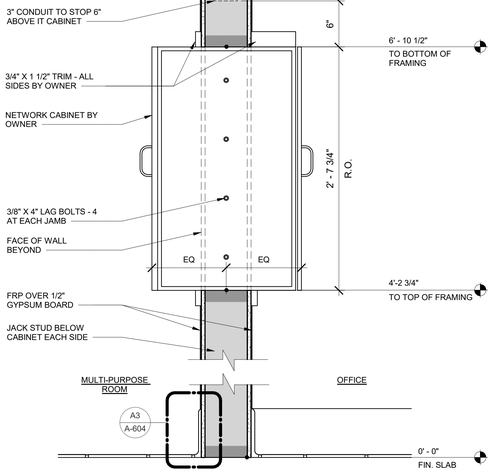
E4 MOP SINK SECTION ENLARGED
3" = 1'-0"



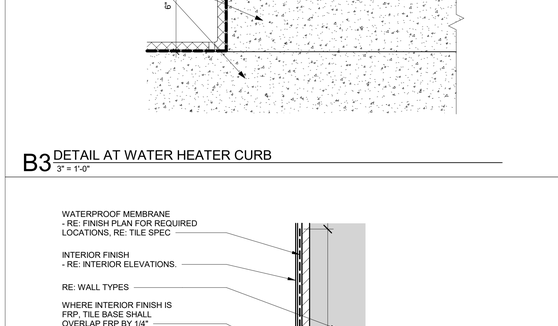
E2 MOP SINK FRONT EDGE
3" = 1'-0"



E1 MOP SINK SECTION @ EXTERIOR WALL
1" = 1'-0"



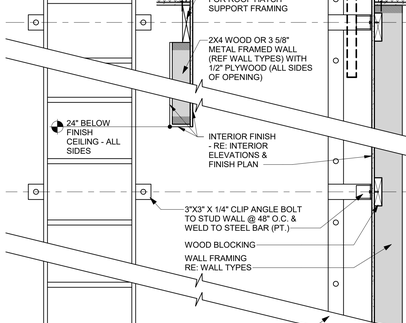
D4 DETAIL AT WALK-IN PARTITION
3" = 1'-0"



D3 DETAIL AT WALK-IN SCREED
3" = 1'-0"



D2 KERDI FLASHING DETAIL
3" = 1'-0"



D1 DETAIL PLAN AT TILE CORNER
6" = 1'-0"

C4 DETAIL AT TILE BASE
6" = 1'-0"

C3 CORNER GUARD
3" = 1'-0"

NOTE:
ENLARGED DETAIL SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. FLOOR TILE TO BUTT UP COMPLETELY AGAINST THRESHOLD ASSEMBLY CHANNEL FROM BOTH SIDES.

C2 DETAIL AT WALK-IN FREEZER DOOR
3" = 1'-0"

C1 END CAP DETAIL
3" = 1'-0"

A4 OFFICE IT CABINET
1 1/2" = 1'-0"

B3 DETAIL AT WATER HEATER CURB
3" = 1'-0"

B2 INTERIOR THRESHOLD @ OFFICE DOOR
3" = 1'-0"

A3 WALL BASE DETAIL @ BACK OF HOUSE.
3" = 1'-0"

A2 PIN & SLEEVE SECTION
3/4" = 1'-0"

NOTE:
STANDARD DUTY CHANNEL RAIL FIXED ACCESS ALUMINUM LADDER (MODEL 500) WITH SERRATED RUNGS - O'KEEFFE'S, INC. TELEPHONE: 415.824.4900 WITH "LADDER UP" SAFETY POST - BILCO LU-1 OR EQUAL.

A1 LADDER DETAILS
1" = 1'-0"

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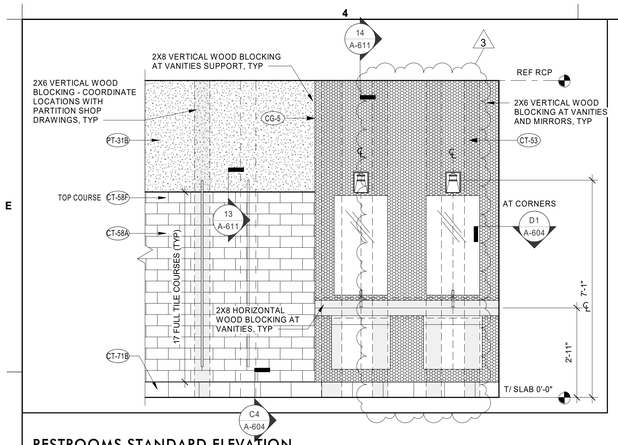
CONSULTANT PROJECT #	04591
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SHEET
KITCHEN AND INTERIOR DETAILS

SHEET NUMBER
A-604

BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_ARC.rvt
1/26/2022 1:44:27 PM
10-LE-04591-A-604-KITCHEN AND INTERIOR DETAILS



RESTROOMS STANDARD ELEVATION

1/2" = 1'-0"

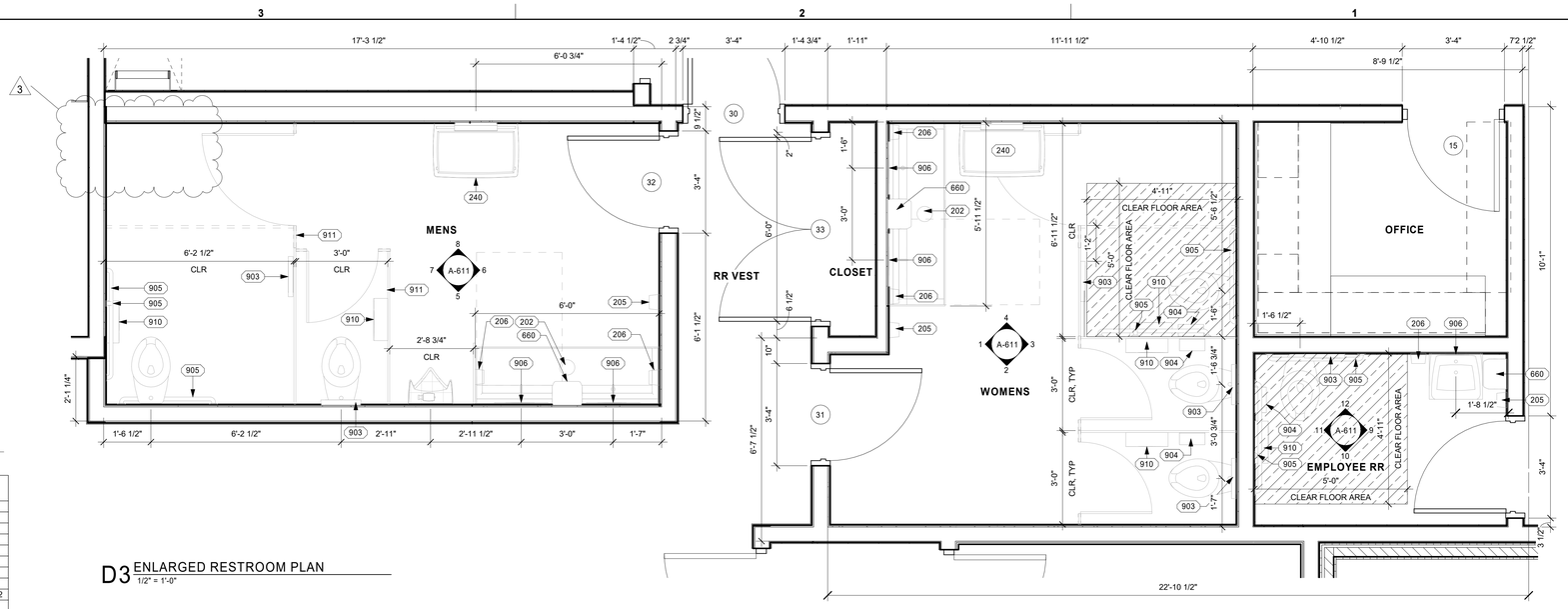
TOILET ACCESSORIES SCHEDULE

	DESCRIPTION	QTY	MANUF'R	FURNISHED BY	INSTALLED BY	MODEL #
202	TRASH RECEPTACLE	2	RUBBERMAID	GENERAL CONTRACTOR	GENERAL CONTRACTOR	RE: K-SHEETS
205	HAND SANITIZER	3	ECO LAB	GENERAL CONTRACTOR	GENERAL CONTRACTOR	92211379
206	SOAP DISPENSER	5	ECO LAB	GENERAL CONTRACTOR	GENERAL CONTRACTOR	92211379
240	BABY CHANGING STATION	2	RUBBERMAID	OWNER	EQUIPMENT INSTALLER	FG781888
660	PAPER TOWEL DISPENSER	3	SAN JAMAR	OWNER	GENERAL CONTRACTOR	T1490TBK
903	TOILET SEAT COVER DISPENSER	6	ASI	GENERAL CONTRACTOR	GENERAL CONTRACTOR	0477-SM
904	SANITARY RECEPTACLE	4	RUBBERMAID	OWNER	GENERAL CONTRACTOR	6140
905	GRAB BAR (HORIZ. & VERT.)	9	ASI	GENERAL CONTRACTOR	GENERAL CONTRACTOR	3801-18, 3801-36, 3801-42
906	MIRROR	5	REF NATIONAL ACCOUNTS SCHEDULE	MANUFACTURER	MANUFACTURER	REHAU MIRROR
910	TOILET PAPER DISPENSER	6	SAN JAMAR	OWNER	GENERAL CONTRACTOR	R3090TBK
911	TOILET PARTITION/URINAL SCREEN	6	REF NATIONAL ACCOUNTS SCHEDULE	GENERAL CONTRACTOR	GENERAL CONTRACTOR	SEE NOTE #2

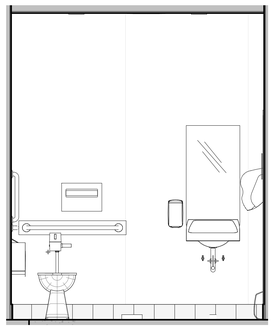
3

GENERAL RESTROOM NOTES

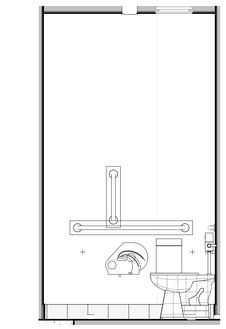
1. ALL UNDER COUNTER PIPING TO BE PROTECTED FROM CONTACT. PROVIDE AND INSTALL INSULATION AT HOT WATER SUPPLY AND DRAIN PIPES. ENSURE THAT ALL OTHER SHARP OR ABRASIVE SURFACES ARE PROPERLY COVERED OR MADE SMOOTH.
2. UREA-FREE PHENOLIC TO MATCH PL-40 (RE: A-211 - FINISH SCHEDULE) AND TO BE FURNISHED AND INSTALLED BY GC. REFERENCE SPECIFICATIONS FOR MORE INFORMATION.
3. OPERATOR TO PURCHASE SMALL WASTE RECEPTACLE FOR WOMEN'S STALLS FOR SANITARY NAPKIN DISPOSAL.
4. CEMENTITIOUS BOARD BEHIND ALL WALL TILE & TO FULL HEIGHT OF TILE.
5. BABY CHANGING STATION - VERIFY PULL DOWN HANDLE TO BE 48" MAXIMUM. OPEN TABLE HEIGHT TO BE BETWEEN 28" - 34".
6. COORDINATE PROPER MIRROR AND VANITY BLOCKING LOCATIONS WITH VENDOR SHOP DRAWINGS. TROUGH SINK TO BE PROVIDED BY MILLWORK VENDOR.
7. REFER TO G-002 ACCESSIBILITY SHEET FOR TYP MOUNTING DIMENSIONS AND MFR DRAWINGS FOR BLOCKING LOCATIONS.
8. DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD (UNLESS OTHERWISE NOTED).
9. ALL ADA STALL DOORS TO BE SELF-CLOSING WITH PULLS ON BOTH SIDES. ALL COAT HOOKS ON STALL DOORS TO BE MOUNTED 48" AFF MAX.
10. SEE A-201 FLOOR PLAN FOR LOCATIONS OF HAND SANITIZERS AT PLAY ROOM AS APPLICABLE.



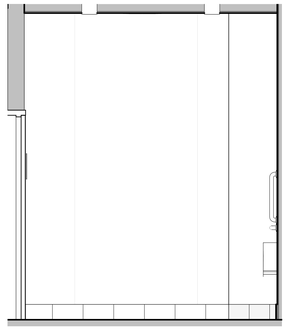
D3 ENLARGED RESTROOM PLAN
1/2" = 1'-0"



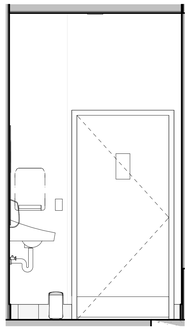
12 ELEVATION - WOMEN'S RESTROOM
1/2" = 1'-0"



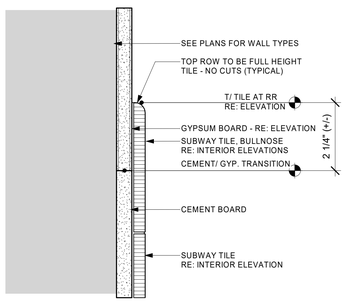
11 ELEVATION - WOMEN'S RESTROOM
1/2" = 1'-0"



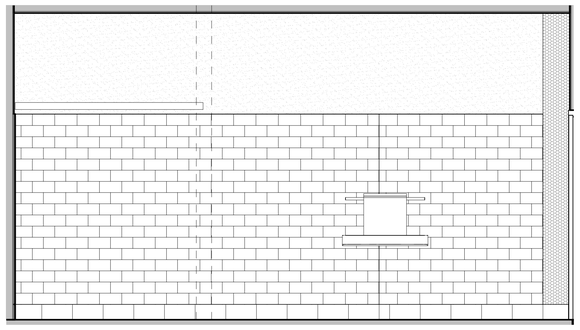
10 ELEVATION - WOMEN'S RESTROOM
1/2" = 1'-0"



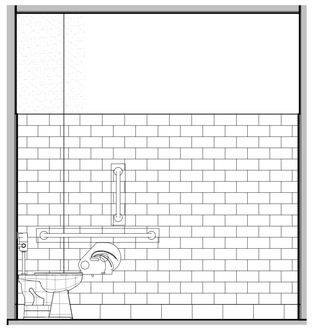
9 ELEVATION - WOMEN'S RESTROOM
1/2" = 1'-0"



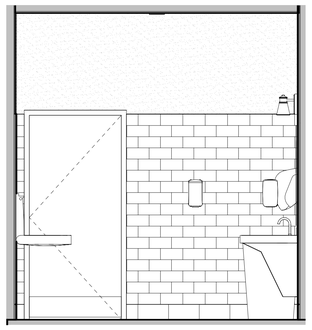
13 TILE TO GYP TRANSITION AT RESTROOM
6" = 1'-0"



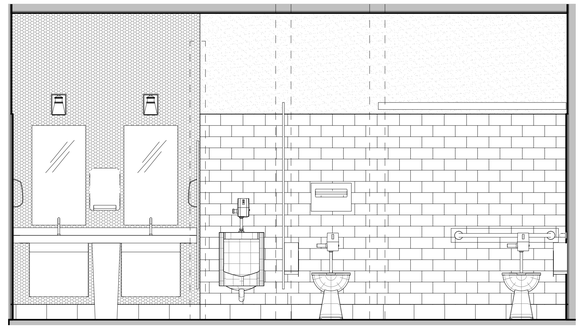
8 ELEVATION - MEN'S RESTROOM
1/2" = 1'-0"



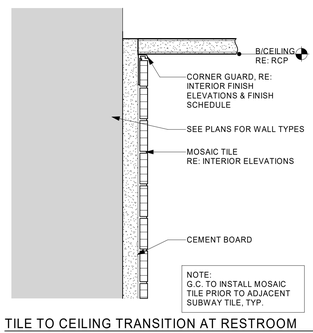
7 ELEVATION - MEN'S RESTROOM
1/2" = 1'-0"



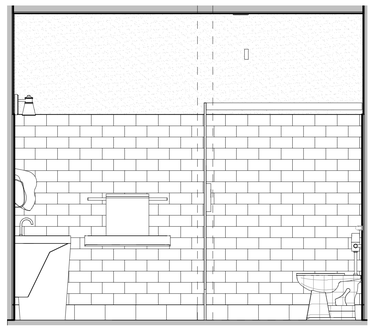
6 ELEVATION - MEN'S RESTROOM
1/2" = 1'-0"



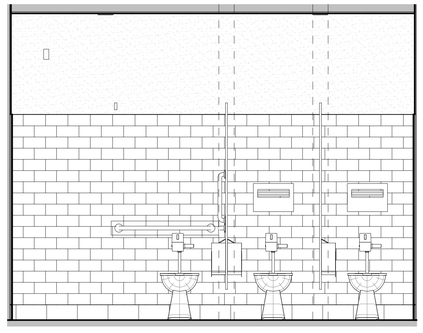
5 ELEVATION - MEN'S RESTROOM
1/2" = 1'-0"



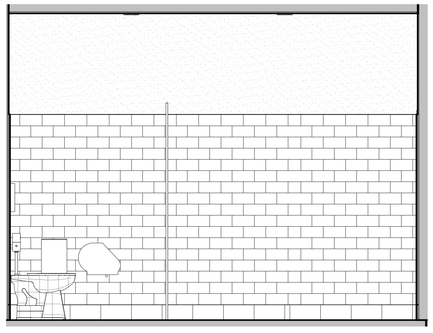
14 TILE TO CEILING TRANSITION AT RESTROOM
6" = 1'-0"



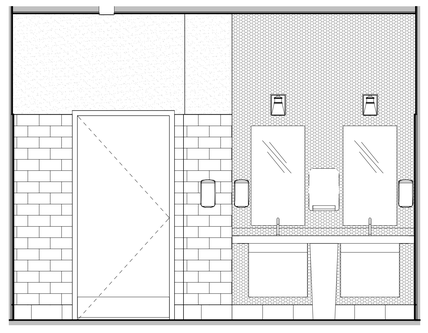
4 ELEVATION - WOMEN'S RESTROOM
1/2" = 1'-0"



3 ELEVATION - WOMEN'S RESTROOM
1/2" = 1'-0"



2 ELEVATION - WOMEN'S RESTROOM
1/2" = 1'-0"



1 ELEVATION - WOMEN'S RESTROOM
1/2" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

ROY A. WILLIAMS ARCHITECT
License No: 21AI02240800
Issue Date: 05/16/2022
Expiration Date: 07/31/2023

750 OLD HICKORY BLVD. SUITE 2-250
BRENTWOOD, TN 37027
PHONE: 615.377.3111
FAX: 615.377.0978
EMAIL: GENMAIL@EANDHARCH.COM

CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

CONSTRUCTION

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

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	01/26/2022	ISSUED FOR PERMIT
3	07/22/2022	DESIGN NOTES

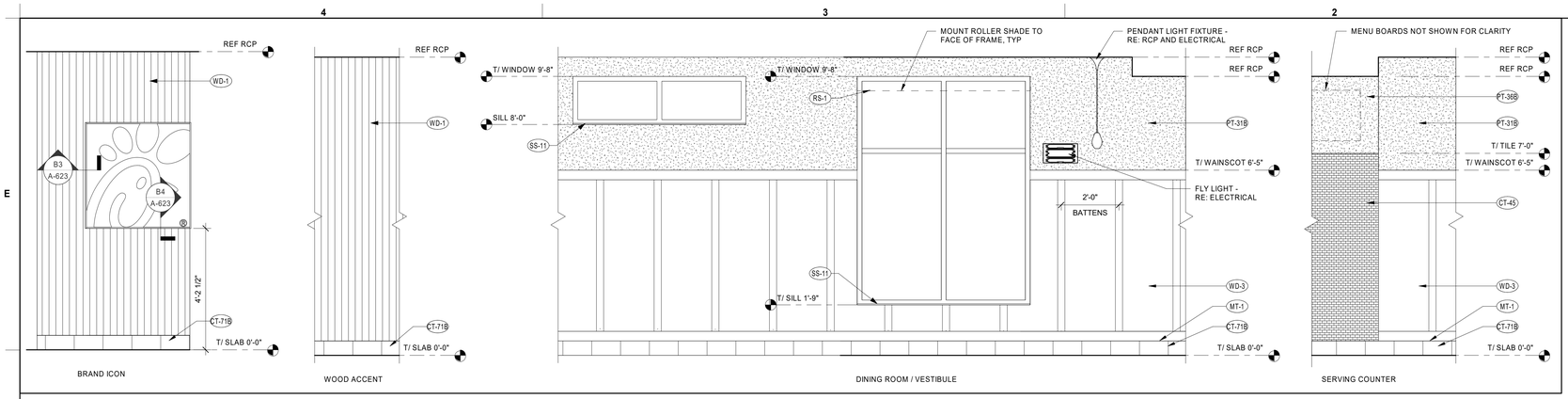
CONSULTANT PROJECT # 04591
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SHEET
RESTROOM PLAN AND ELEVATIONS

SHEET NUMBER
A-611

9/26/2022 10:38:56 AM
10-LE-04591-A-611-RESTROOM PLAN AND ELEVATIONS

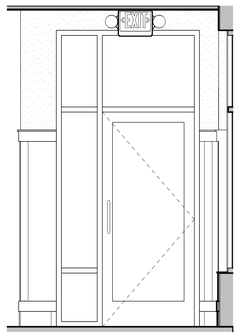


DINING ROOM STANDARD ELEVATIONS

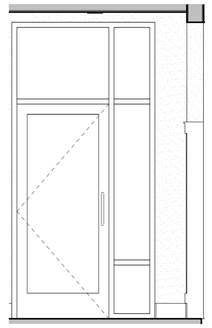
1/2" = 1'-0"

INTERIOR ELEVATION GENERAL NOTES

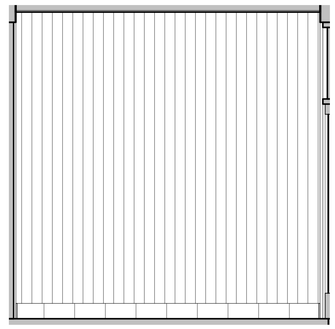
A.1 REFER TO SHEET E3 / A-624 FOR WAINSCOT DETAILS.
A.2 GC TO PROVIDE BLOCKING FOR ALL WALL SHELVING AND EQUIPMENT. REFER TO K SHEETS FOR LOCATIONS. REFER TO A4 / A-623 FOR DETAIL.
A.3. PROVIDE 5" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN DINING ROOM AND VESTIBULE.
A.4 PROVIDE 12" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN KITCHEN.
A.5 PROVIDE CEMENTITIOUS BOARD SUBSTRATE FOR THE FULL HEIGHT OF TILE AT ALL WALLS WITH WALL TILE.
A.6 AT WAINSCOT LOCATIONS, PROVIDE 5" HIGH CEMENTITIOUS BOARD BEHIND TILE BASE, THEN PLYWOOD SUBSTRATE TO TOP OF WAINSCOT, THEN GYPSUM BOARD TO CEILING.
A.7 BRAND ICON DIRECTION: WHEN ENTERING THE STORE FROM THE MAIN ENTRY, THE BEAK SHOULD POINT TO THE RIGHT.
A.8 REFER TO FRN SHEETS FOR SIGNAGE LOCATIONS. REFER TO A4 / A-624 FOR DETAIL.
A.9 REFER TO/C3 / A-604 FOR CORNER GUARD DETAIL, REFER TO PLANS AND ELEVATIONS FOR LOCATIONS.



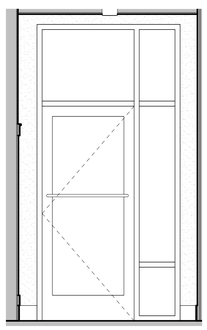
9 INTERIOR ELEVATION - DINING
1/2" = 1'-0"



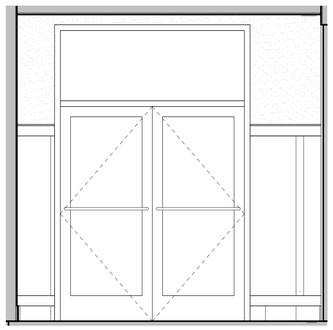
8 INTERIOR ELEVATION - VESTIBULE
1/2" = 1'-0"



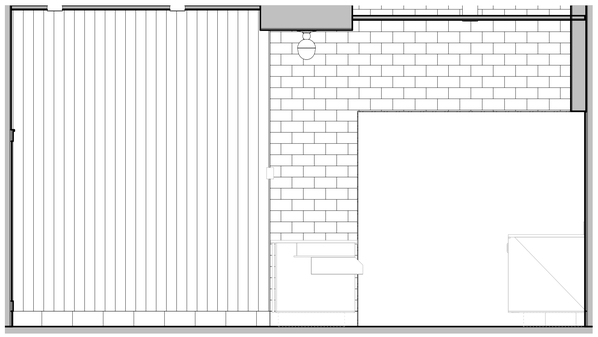
7 INTERIOR ELEVATION - VESTIBULE
1/2" = 1'-0"



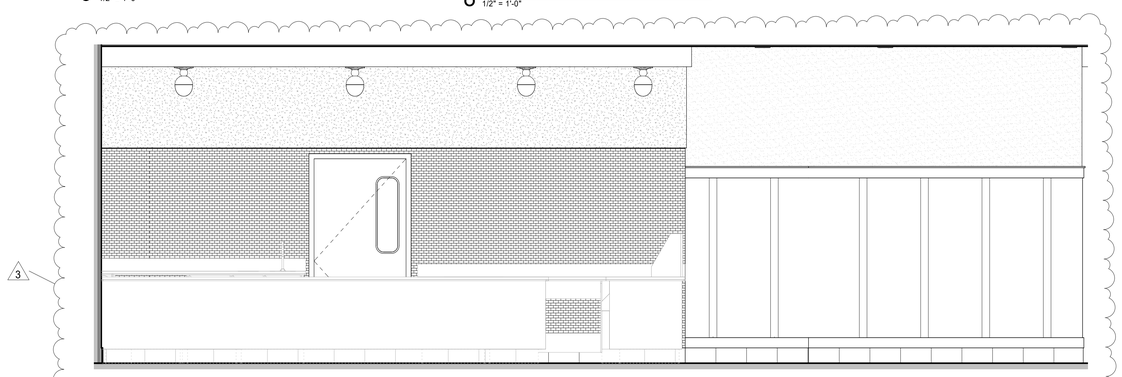
6 INTERIOR ELEVATION - VESTIBULE
1/2" = 1'-0"



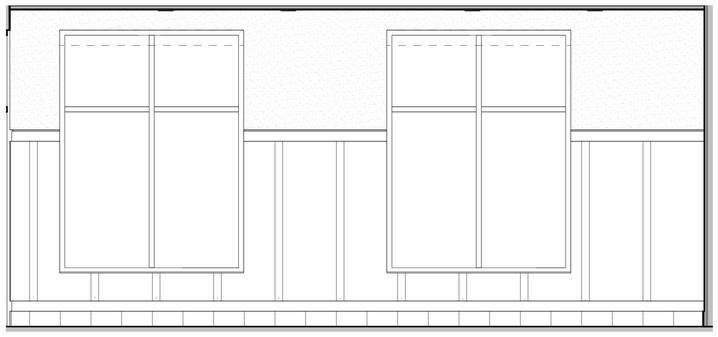
5 INTERIOR ELEVATION - VESTIBULE
1/2" = 1'-0"



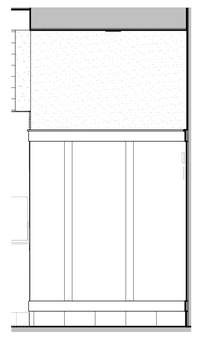
3 INTERIOR ELEVATION - DINING
1/2" = 1'-0"



4 INTERIOR ELEVATION - DINING
1/2" = 1'-0"



2 INTERIOR ELEVATION - DINING
1/2" = 1'-0"



1 INTERIOR ELEVATION - DINING
1/2" = 1'-0"

Chick-fil-A
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Issue Date: 05/16/2022
Expiration Date: 07/31/2023

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EMAIL: GENMAIL@EANDHARCH.COM

CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT
3	07/22/2022	DESIGN NOTES

CONSTRUCTION

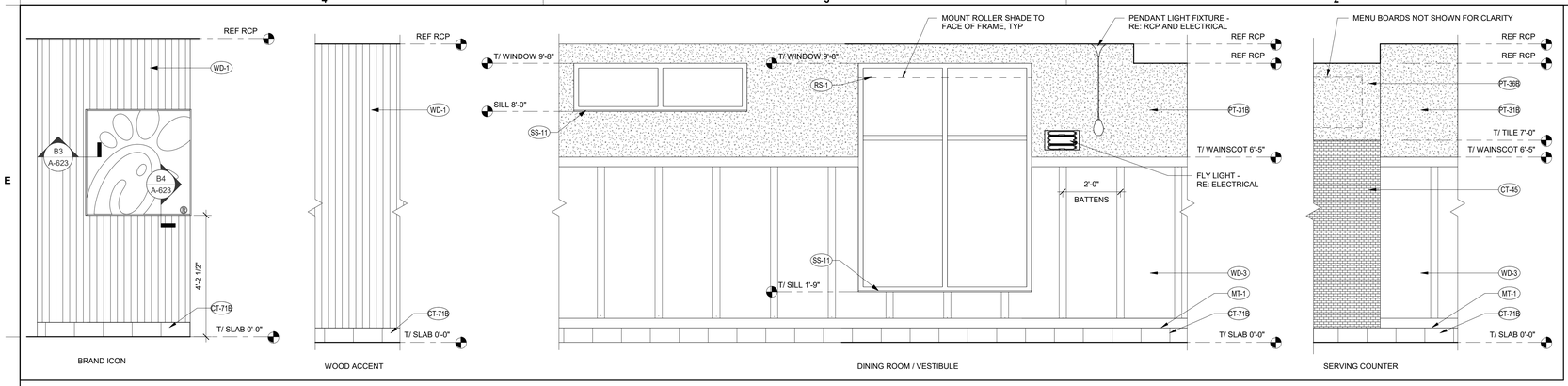
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SHEET
DINING ELEVATIONS AND DETAILS

SHEET NUMBER
A-621

9/26/2022 9:54:45 AM
10-LE-04591-A-621+DINING ELEVATIONS AND DETAILS

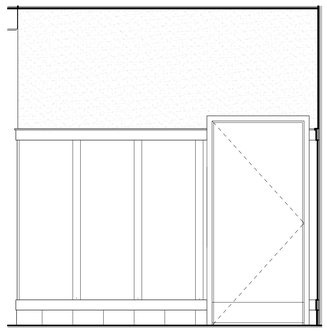


DINING ROOM STANDARD ELEVATIONS

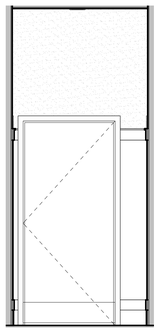
1/2" = 1'-0"

INTERIOR ELEVATION GENERAL NOTES

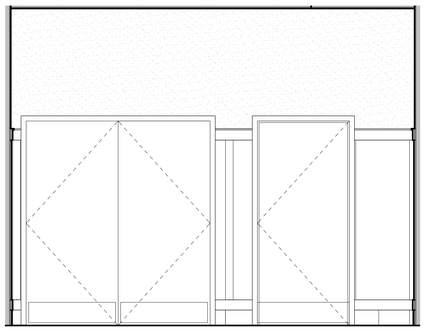
A.1 REFER TO SHEET E3 / A-624 FOR WAINSCOT DETAILS.
A.2 GC TO PROVIDE BLOCKING FOR ALL WALL SHELVING AND EQUIPMENT. REFER TO K SHEETS FOR LOCATIONS. REFER TO A4 / A-623 FOR DETAIL.
A.3. PROVIDE 5" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN DINING ROOM AND VESTIBULE.
A.4 PROVIDE 12" HIGH CEMENTITIOUS BOARD SUBSTRATE AT BASE OF ALL WALLS IN KITCHEN.
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A.9 REFER TO C3 / A-604 FOR CORNER GUARD DETAIL, REFER TO PLANS AND ELEVATIONS FOR LOCATIONS.



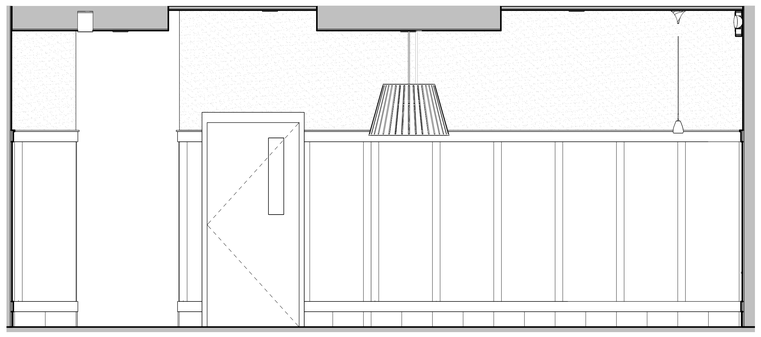
14 ELEVATION -RESTROOM VESTIBULE
1/2" = 1'-0"



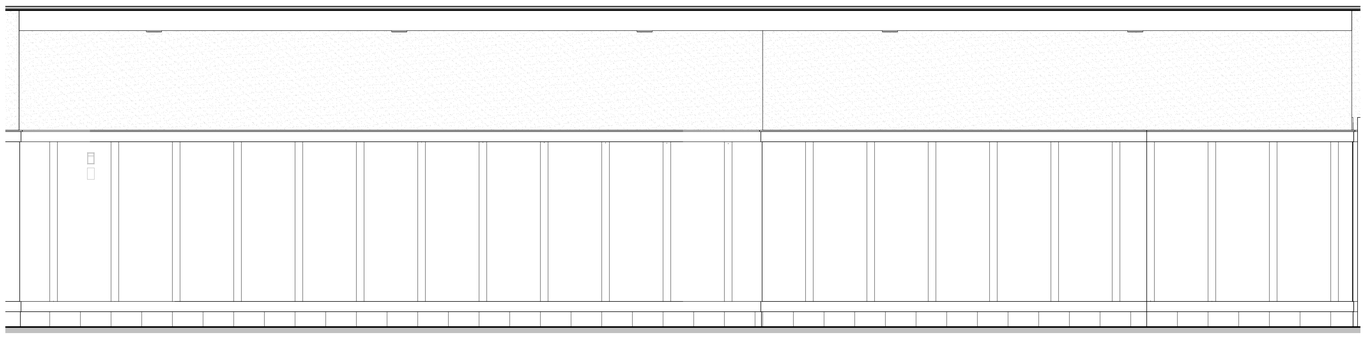
13 ELEVATION - RESTROOM VESTIBULE
1/2" = 1'-0"



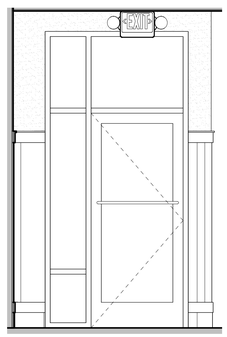
12 ELEVATION - RESTROOM VESTIBULE
1/2" = 1'-0"



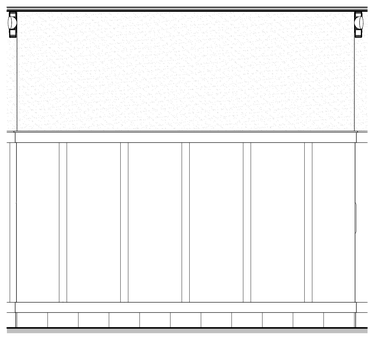
3 INTERIOR ELEVATION - DINING
1/2" = 1'-0"



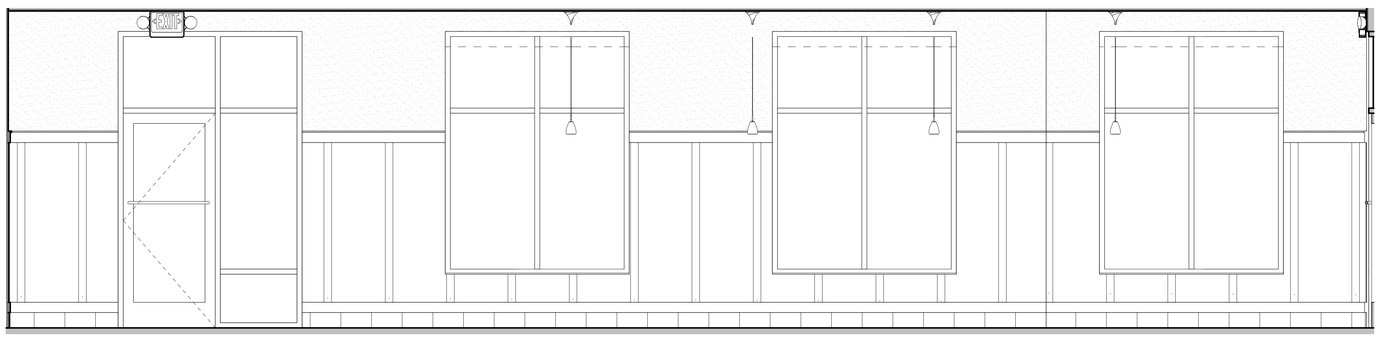
2 INTERIOR ELEVATION - DINING
1/2" = 1'-0"



11 INTERIOR ELEVATION - DINING
1/2" = 1'-0"



10 INTERIOR ELEVATION - DINING
1/2" = 1'-0"



1 INTERIOR ELEVATION - DINING
1/2" = 1'-0"

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WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT

PERMIT

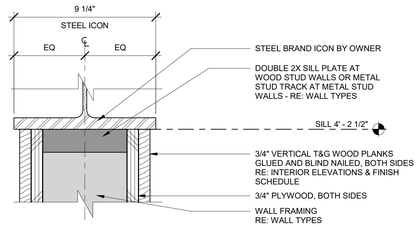
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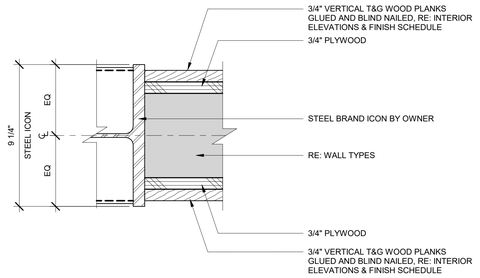
SHEET
DINING ELEVATIONS AND DETAILS

SHEET NUMBER
A-622

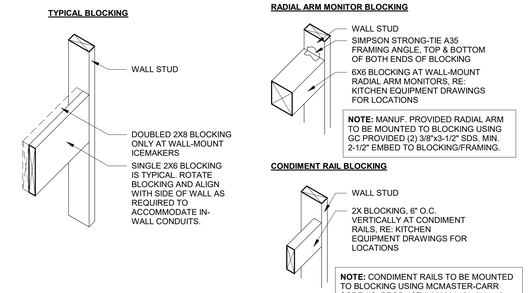
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10-LE-04591-A-622-DINING ELEVATIONS AND DETAILS



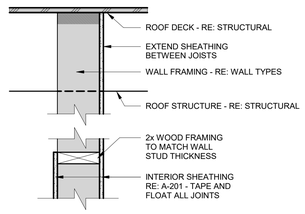
B4 BRAND ICON TWO-SIDED SILL AT WOOD FINISH
3" = 1'-0"



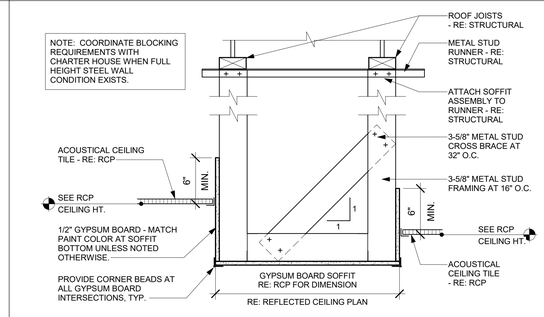
B3 BRAND ICON TWO-SIDED JAMB AT WOOD FINISH
3" = 1'-0"



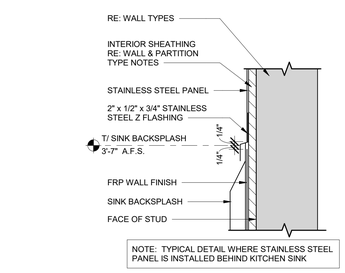
A4 BLOCKING DETAIL
3" = 1'-0"



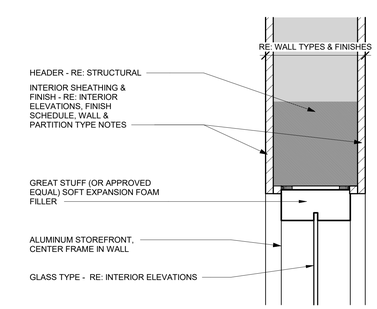
A3 DRAFTSTOPPING DETAIL
1 1/2" = 1'-0"



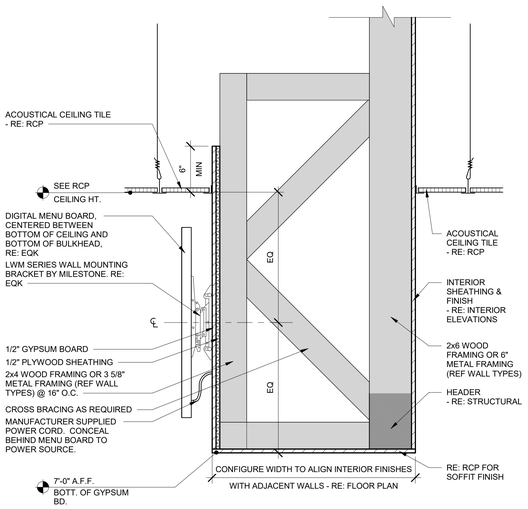
C3 TYP DINING SOFFIT
1 1/2" = 1'-0"



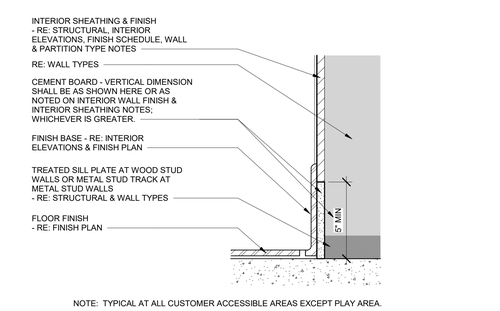
D2 Z FLASHING DETAIL
3" = 1'-0"



C2 TYP INTERIOR STOREFRONT HEAD
3" = 1'-0"

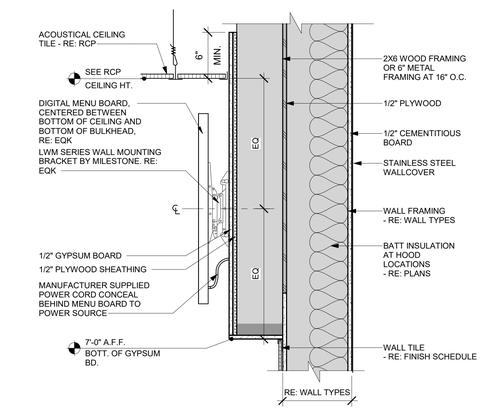


A2 MENU BOARD DETAIL - LC STORE
1 1/2" = 1'-0"



D1 TYP WINDOW SILL DETAIL
3" = 1'-0"

C1 WALL BASE DETAIL
3" = 1'-0"



A1 MENU BOARD DETAIL - NON LC STORE
1 1/2" = 1'-0"

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EMAIL: GENMAIL@EANDHARCH.COM

CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT

PERMIT

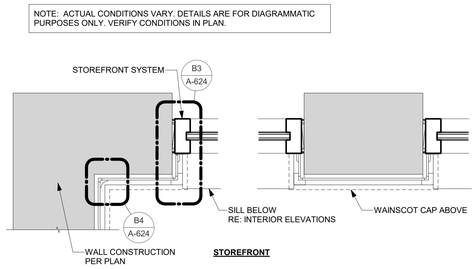
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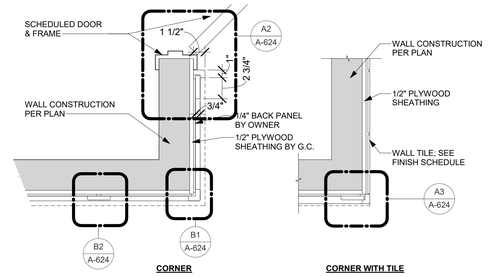
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SHEET
DINING ELEVATIONS AND DETAILS

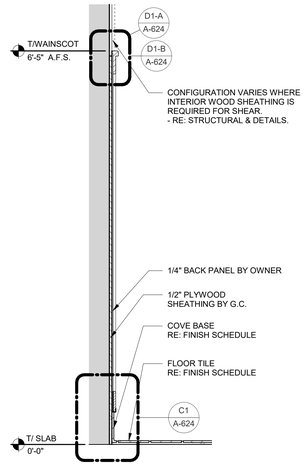
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A-623

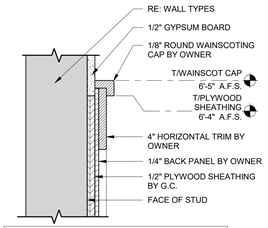
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10-LE-04591-A-623-DINING ELEVATIONS AND DETAILS



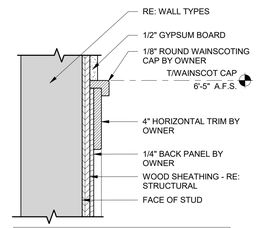


E3 WAINSCOTING PLAN DIAGRAM (FOR SCHEMATIC ONLY)
1 1/2" = 1'-0"

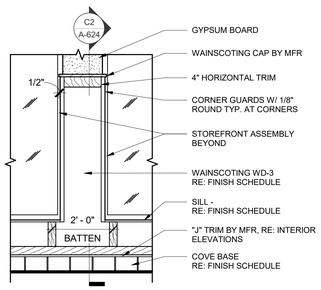




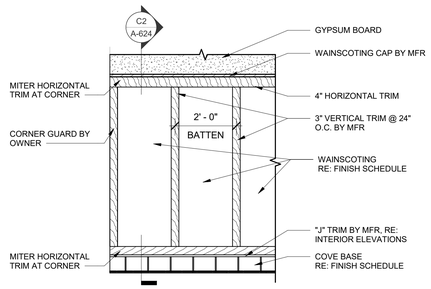
D1-A WAINSCOTING CAP DETAIL
3" = 1'-0"



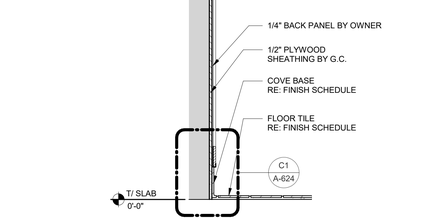
D1-B WAINSCOTING CAP DETAIL
3" = 1'-0"



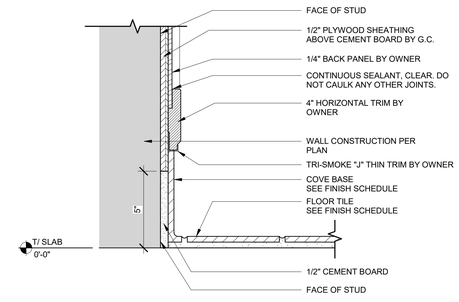
C4 TYP WAINSCOTING ELEVATION AT WINDOW
1/2" = 1'-0"



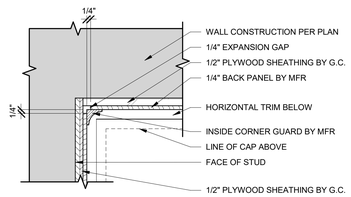
C3 TYP WAINSCOTING ELEVATION
1/2" = 1'-0"



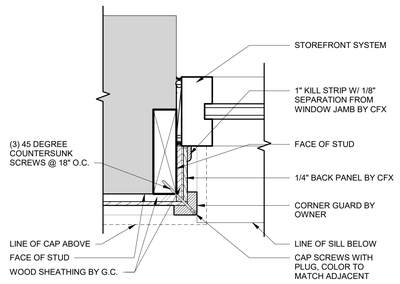
C2 WALL SECTION AT WAINSCOTING
1" = 1'-0"



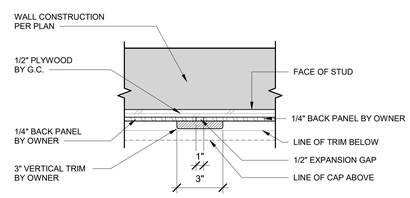
C1 WAINSCOTING BASE DETAIL
3" = 1'-0"



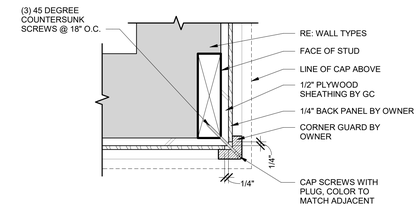
B4 WAINSCOTING INSIDE CORNER DETAIL
3" = 1'-0"



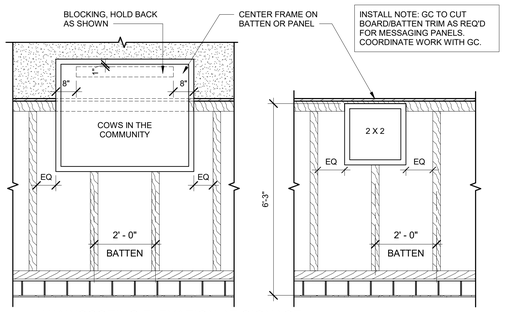
B3 WAINSCOTING AT STOREFRONT
3" = 1'-0"



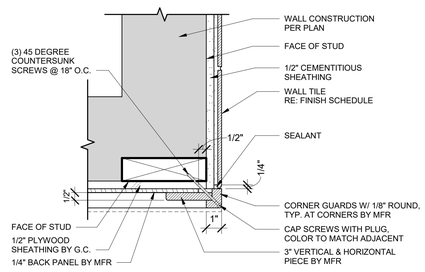
B2 WAINSCOTING TRIM DETAIL
3" = 1'-0"



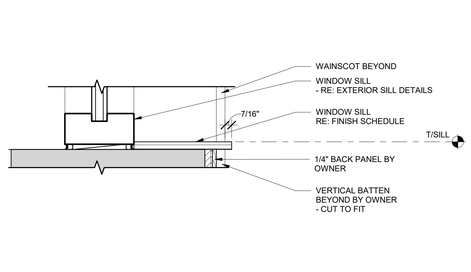
B1 WAINSCOTING OUTSIDE CORNER DETAIL
3" = 1'-0"



A4 WAINSCOTING ELEVATION AT SIGNAGE
1/2" = 1'-0"



A3 WAINSCOTING TO TILE CORNER
3" = 1'-0"



A2 WAINSCOTING AT DOOR JAMB
3" = 1'-0"

A1 WAINSCOTING AT WINDOW SILL
3" = 1'-0"

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CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT

PERMIT

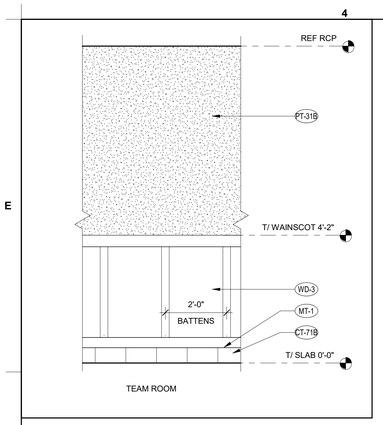
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DATE	1/26/22
DRAWN BY	Author

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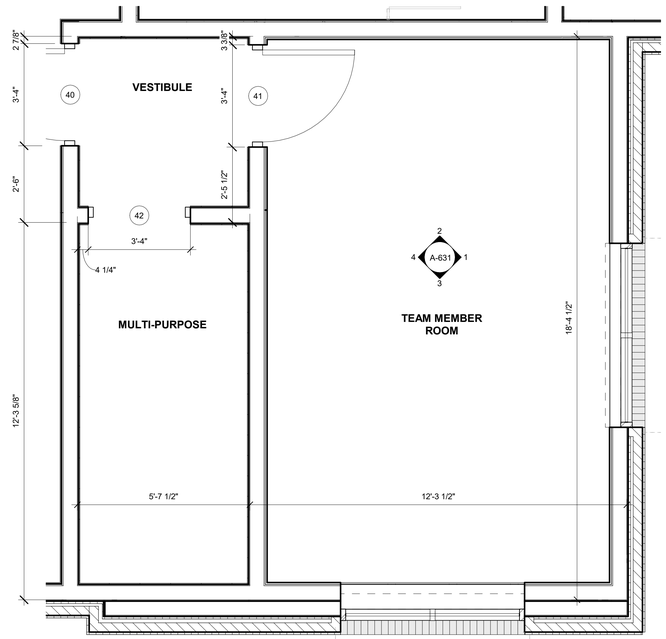
SHEET
DINING ELEVATIONS AND DETAILS

SHEET NUMBER
A-624

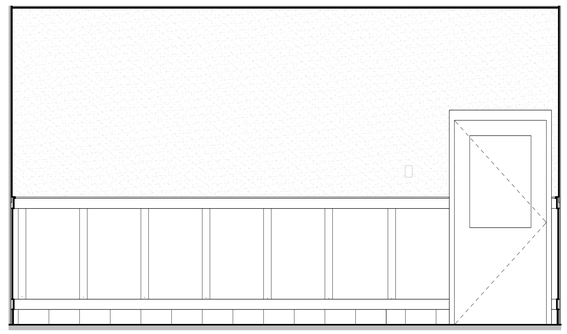
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10-LE-04591-A-624-DINING ELEVATIONS AND DETAILS



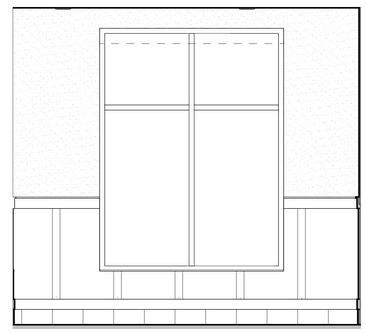
TEAM ROOM STANDARD ELEVATIONS
1/2" = 1'-0"



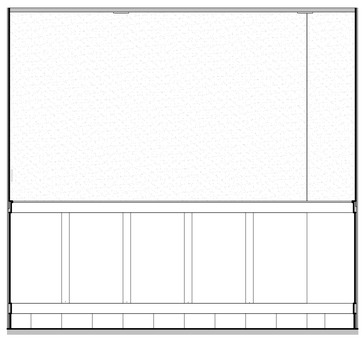
5 TEAM ROOM FLOOR PLAN
1/2" = 1'-0"



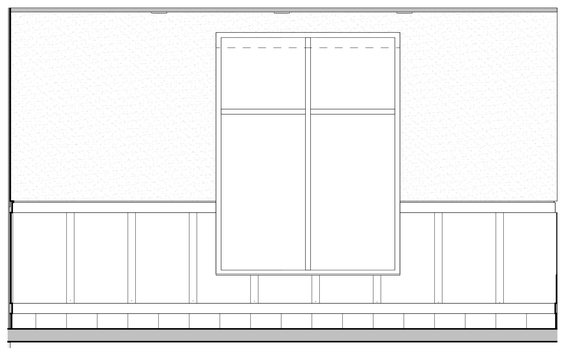
4 INTERIOR ELEVATION - TEAM AREA
1/2" = 1'-0"



3 INTERIOR ELEVATION - TEAM AREA
1/2" = 1'-0"



2 INTERIOR ELEVATION - TEAM AREA
1/2" = 1'-0"



1 INTERIOR ELEVATION - TEAM AREA
1/2" = 1'-0"

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CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT

PERMIT

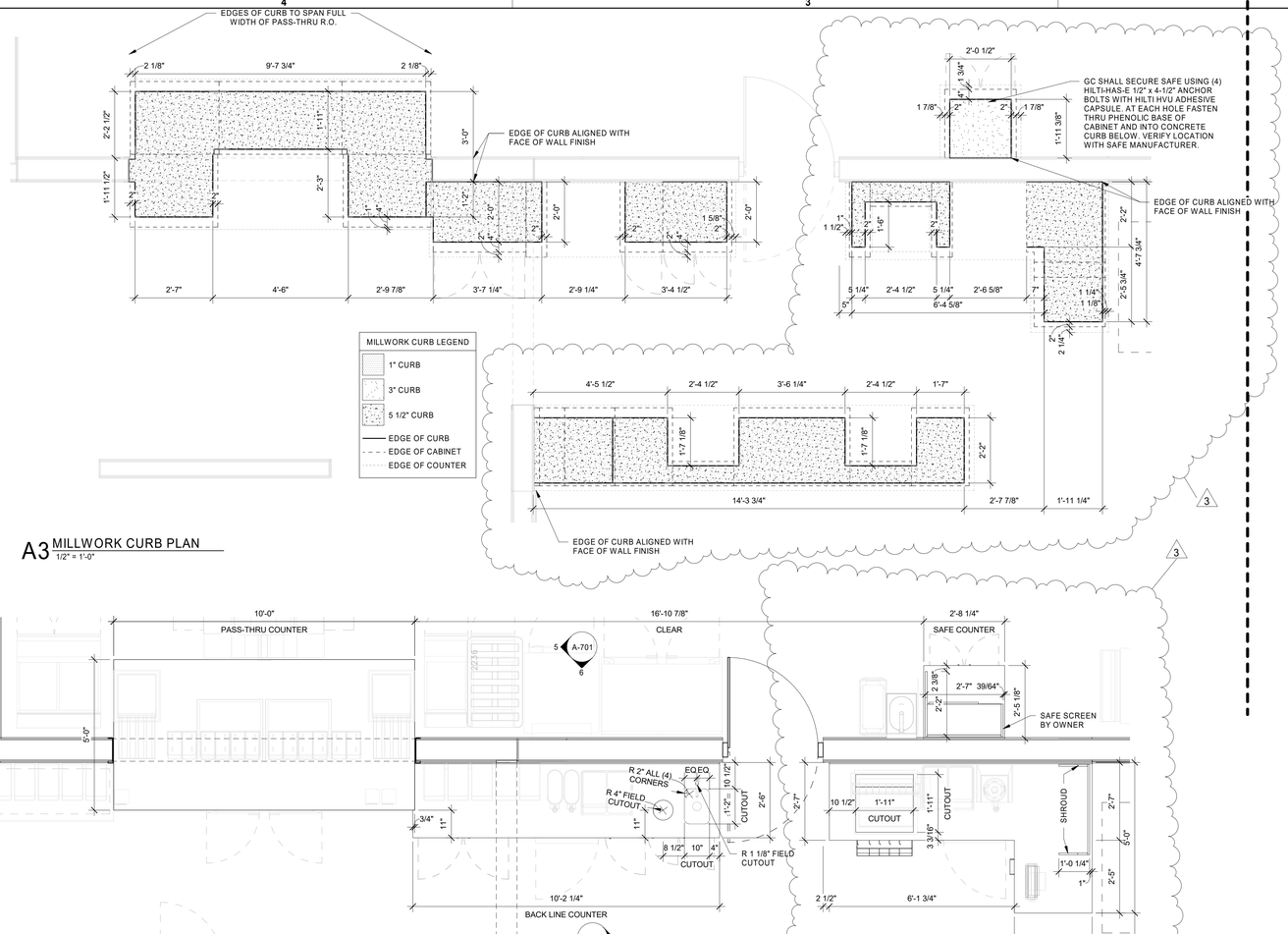
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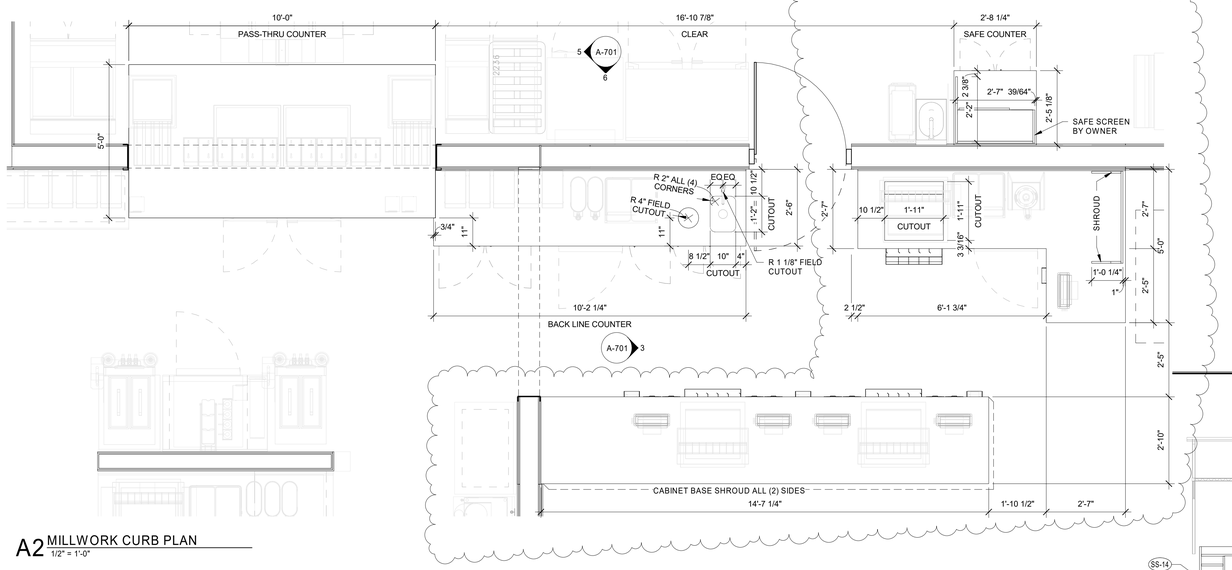
SHEET
TEAM AREA PLAN AND ELEVATIONS

SHEET NUMBER
A-631

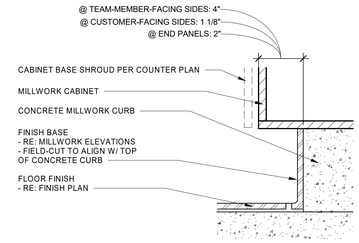
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10-LE-04591-A-631-TEAM AREA PLAN AND ELEVATIONS



A3 MILLWORK CURB PLAN
1/2" = 1'-0"



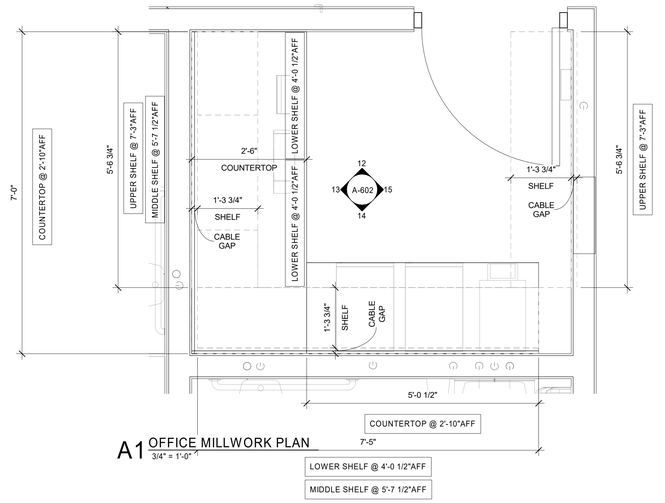
A2 MILLWORK CURB PLAN
1/2" = 1'-0"



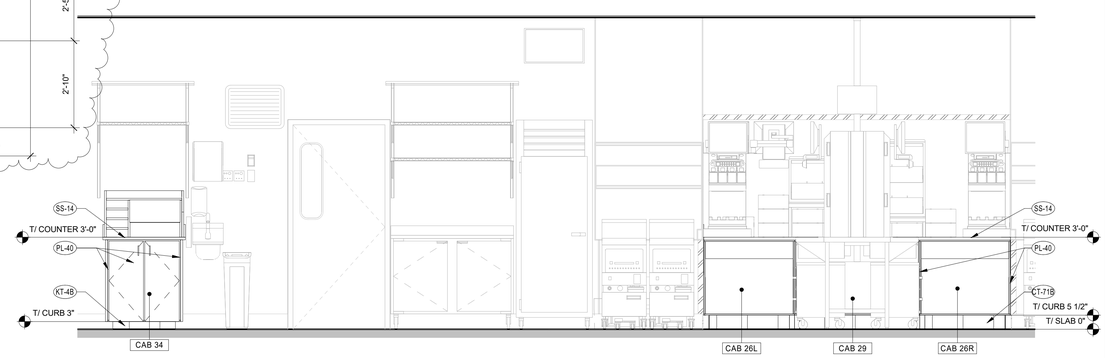
E1 TYP CURB DETAIL
3" = 1'-0"

MILLWORK GENERAL NOTES

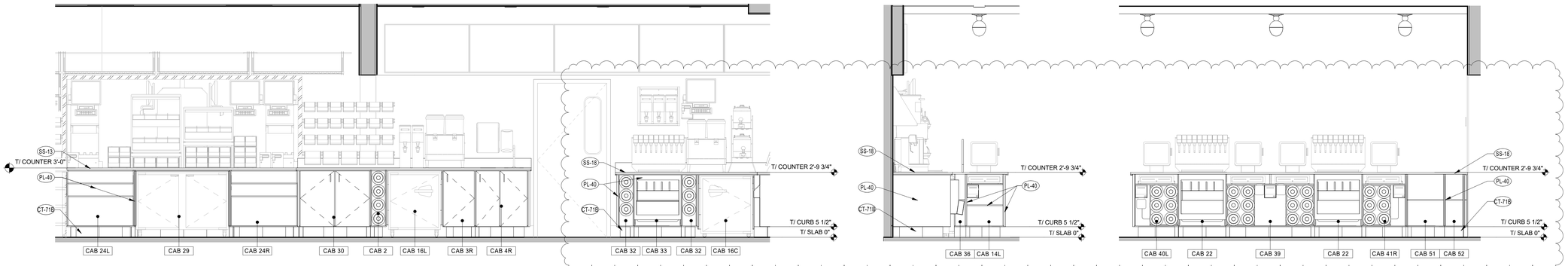
A.1 GC TO CONFIRM ALL INFORMATION ON THIS SHEET W/ MILLWORK VENDOR SHOP DRAWINGS.
A.2 REFER TO PLUMBING, ELECTRICAL, AND KITCHEN DRAWINGS FOR ROUGH-IN, RECEPTACLE, AND EQUIPMENT INFORMATION
A.3 SEAL ALL COUNTER/CABINET EDGES THAT ALIGN AGAINST ADJACENT WALLS
A.4 ALL SIDE AND BACK SPLASHES TO BE INTEGRAL



A1 OFFICE MILLWORK PLAN
3/4" = 1'-0"



6 MILLWORK ELEVATION
1/2" = 1'-0"



4 MILLWORK ELEVATION
1/2" = 1'-0"

3 MILLWORK ELEVATION
1/2" = 1'-0"

2 MILLWORK ELEVATION
1/2" = 1'-0"

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Expiration Date: 07/31/2023

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CHICK-FIL-A
WEST POND FSR

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WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT
3	07/22/2022	DESIGN NOTES

CONSTRUCTION

CONSULTANT PROJECT # 04591
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SHEET
MILLWORK PLANS AND ELEVATIONS

SHEET NUMBER
A-701

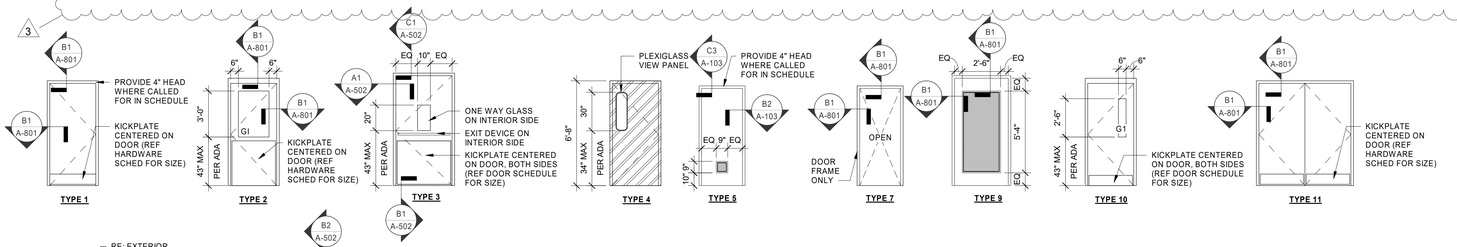
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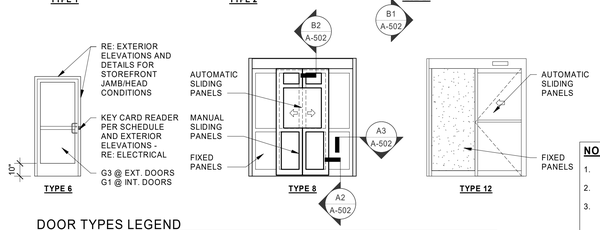
DOOR HARDWARE SCHEDULE

SUPPLIER	QTY.	ITEM	YKK MANUFACTURER	YKK MODEL NUMBER	KAWNEER MANUFACTURER	KAWNEER MODEL NUMBER
SET #01 - ENTRY (PAIR)						
YKK OR KAWNEER	2	PANIC PULL	YKK	H-1541-628	KAWNEER	137730 / Clear Anodized
YKK OR KAWNEER	1 SET	EXIT DEVICE	YKK	P52497	DOM/FALCON	1690
YKK OR KAWNEER	1	RIM CYLINDER	SARGENT	P42741	SARGENT	#63-41-101
YKK OR KAWNEER	2	CLOSER	YKK	H6104	LCN	4041 SMC
YKK OR KAWNEER	2	CONTINUOUS HINGE	YKK	H20100	HAGER	050820-40
YKK OR KAWNEER	1	THRESHOLD	YKK	E90449	KAWNEER	037869
YKK OR KAWNEER	2	DOOR SWEEP	YKK	H7107	KAWNEER	200798
SET #02 - VESTIBULE (SINGLE)						
YKK OR KAWNEER	1	PUSH / PULL	YKK	H-1141-628	KAWNEER	137703 / Clear Anodized
YKK OR KAWNEER	1	DOOR CLOSER	LCN CLOSERS	H6104	LCN CLOSERS	#4041
YKK OR KAWNEER	1 SET	O/S PIVOTS	YKK	#H2101H/H2102LH	KAWNEER	050322, 050326 (RH)
YKK OR KAWNEER	1	FLOOR STOP	ROCKWOOD	P71203626	ROCKWOOD	483X-US32D
SET #03 - DINING ENTRY (SINGLE)						
YKK OR KAWNEER	1	PULL	YKK	H-1541-628	KAWNEER	137730 / Clear Anodized
YKK OR KAWNEER	1	EXIT DEVICE	YKK	P54453	DOM/FALCON	1790
YKK OR KAWNEER	1	DOOR CLOSER	LCN CLOSERS	H6104	LCN CLOSERS	#4041
YKK OR KAWNEER	1	CONTINUOUS HINGE	YKK	H20100	HAGER	050820-40
YKK OR KAWNEER	1	THRESHOLD	YKK	E90449	KAWNEER	037862
YKK OR KAWNEER	1	RIM CYLINDER	SARGENT	P42741	SARGENT	#63-34
YKK OR KAWNEER	1	DOOR SWEEP	YKK	H7107	KAWNEER	200795
YKK OR KAWNEER	1	FLOOR STOP	ROCKWOOD	P71203626	ROCKWOOD	483X-US32D
SET #04 - PLAYROOM						
YKK OR KAWNEER	1	DOOR CLOSER	LCN CLOSERS	4040	LCN CLOSERS	4040
YKK OR KAWNEER	1	TOE GUARD	NATIONAL GUARD	14RDKB - 1 3/4	NATIONAL GUARD	I4RKB X 36"
YKK OR KAWNEER	1	DOOR PUSH	ROCKWOOD	TBF159	BURNS	422
YKK OR KAWNEER	1	DOOR PULL	ROCKWOOD	T118BTB	BURNS	39SP
YKK OR KAWNEER	1	FINGER GUARD	DORMAKABA	H7104	KAWNEER	038365
YKK OR KAWNEER	1	HINGE	HAGER	780-113HD	SELECT	SL71
SET #05 - DINING EXIT-ONLY (SINGLE)						
YKK OR KAWNEER	1	EXIT DEVICE	YKK	P54453	DOM/FALCON	1790
YKK OR KAWNEER	1	DOOR CLOSER	LCN CLOSERS	H6104	LCN CLOSERS	#4041
YKK OR KAWNEER	1	CONTINUOUS HINGE	YKK	H20100	HAGER	050820-40
YKK OR KAWNEER	1	THRESHOLD	YKK	E90449	KAWNEER	037862
YKK OR KAWNEER	1	RIM CYLINDER	SARGENT	P42741	SARGENT	#63-34
YKK OR KAWNEER	1	DOOR SWEEP	YKK	H7107	KAWNEER	200795
YKK OR KAWNEER	1	FLOOR STOP	ROCKWOOD	P71203626	ROCKWOOD	483X-US32D
SET #06 - VESTIBULE (PAIR)						
YKK OR KAWNEER	2	DOOR PUSH / PULL	YKK	H-1141-628	KAWNEER	137703 / Clear Anodized
YKK OR KAWNEER	2	DOOR CLOSER	LCN CLOSERS	H6104	LCN CLOSERS	#4041
YKK OR KAWNEER	2 SETS	O/S PIVOTS	YKK	H2101RH/ H2102LH	KAWNEER	050322, 050323, 035506
YKK OR KAWNEER	2	FLOOR STOP	ROCKWOOD	P71203626	ROCKWOOD	483X-US32D
SET #08 - MULTIPURPOSE						
LOCKNET OR DH PACE	3	STANDARD HINGE	MCKINNEY	TA2314 4-1/2" X 4-1/2" (NRP) US32D		
LOCKNET OR DH PACE	1	KEYPAD CYLINDRICAL LOCK	SARGENT	21 28-KP10G77 LL US26D MK		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	351 CPSH EN		
LOCKNET OR DH PACE	1	KICK PLATE (BACK OF HOUSE)	ROCKWOOD	K1050 36"h X 34"w US32D 4BE		
LOCKNET OR DH PACE	1	KICK PLATE (WHEN FACING DINING AREAS)	ROCKWOOD	K1050 8"h X 36"w US32D 4BE		
LOCKNET OR DH PACE	1	WEATHER STRIPPING	PEMKO	S88 D17		
LOCKNET OR DH PACE	1	WALL DOOR STOP	ROCKWOOD	403 US26D		
SET #09 - OFFICE						
LOCKNET OR DH PACE	3	STANDARD HINGE	MCKINNEY	TA2714 4-1/2" X 4-1/2" (NRP) X US26D		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	351 CPSH EN		
LOCKNET OR DH PACE	1	KICK PLATE	ROCKWOOD	K1050 36"h X 34"w US32D 4BE		
LOCKNET OR DH PACE	3	SILENCER	ROCKWOOD	608		
LOCKNET OR DH PACE	1	WALL DOOR STOP	ROCKWOOD	403 US26D		
LOCKNET OR DH PACE		KEYPAD CYLINDRICAL LOCK	SARGENT	21 28-KP10G77 LL US26D MK		
SET #11 - KITCHEN						
ELIASON	2	DOOR PULL	HAGER COMPANIES	6" ALLUM (US32D) MODEL 3E		
SET #13 - EXTERIOR STORAGE						
LOCKNET OR DH PACE	1	PIANO HINGE	PEMKO	CMF83 HD X ALUM.X TEK		
LOCKNET OR DH PACE	1	LOCKSET	SARGENT	28-1160-10G04 LL US26D MK		
LOCKNET OR DH PACE	1	LOCK GUARD	ROCKWOOD	321 X US32D		
LOCKNET OR DH PACE	1	THRESHOLD	PEMKO	171A		
LOCKNET OR DH PACE	1	DOOR SWEEP	PEMKO	315CN (TKSP8)		
LOCKNET OR DH PACE	1 SET	WEATHER STRIPPING	PEMKO	303AS (TKSP8)		
LOCKNET OR DH PACE	1	DRIP TOP SWEEP	PEMKO	346C (TKSP8)		
LOCKNET OR DH PACE	3	DOOR SILENCER	ROCKWOOD	608		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	351 CPSH EN		
LOCKNET OR DH PACE	1	KICK PLATE	ROCKWOOD	K1050 36"h X 34"w US32D 4BE or K1050 36"h X 38"w US32D 4BE		
SET #17 - CLOSET (SINGLE)						
LOCKNET OR DH PACE	3	STANDARD HINGE	MCKINNEY	MPB79 4-1/2" X 4-1/2" (NRP) X US26D		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	351 CPSH EN		
LOCKNET OR DH PACE	1	KICK PLATE	ROCKWOOD	K1050 8"h X 28"w US32D BEV		
LOCKNET OR DH PACE	3	SILENCER	ROCKWOOD	608		
LOCKNET OR DH PACE	1	LOCKSET	SARGENT	28 60-10G05 LL X US26D		
SET #18 - RESTROOM (MULTI-OCCUPANT)						
LOCKNET OR DH PACE	3	STANDARD HINGE	MCKINNEY	TA2714 4-1/2" X 4-1/2" (NRP) X US26D		
LOCKNET OR DH PACE	1	PUSH PLATE	ROCKWOOD	70E US32DMS		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	(Inswing: 351H)(Outswing: 351 CPSH)		
LOCKNET OR DH PACE	3	SILENCERS	ROCKWOOD	608		
LOCKNET OR DH PACE	1	KICK PLATE	ROCKWOOD	K1050 8"h X 36"w US32D 4BE - PUSH SIDE		
LOCKNET OR DH PACE	1	WALL STOP	ROCKWOOD	403 US26D		
LOCKNET OR DH PACE	1	TRIMCO PULL BAR (IF DOOR SWINGS INSIDE RR)	TRIMCO	PART 1135 BRUSHED STAINLESS		
LOCKNET OR DH PACE	1	PULL PLATE (IF DOOR SWINGS OUTSIDE RR)	ROCKWOOD	BF110 X 70C US32DMS TYPE 1		
SET #20 - RESTROOM (SINGLE-OCCUPANT)						
LOCKNET OR DH PACE	3	STANDARD HINGE	MCKINNEY	TA2714 4-1/2" X 4-1/2" (NRP) X US26D		
LOCKNET OR DH PACE	1	DOOR CLOSER	SARGENT	(Inswing: 351H)(Outswing: 351 CPSH)		
LOCKNET OR DH PACE	3	DOOR SILENCER	ROCKWOOD	608		
LOCKNET OR DH PACE	1	KICK PLATE	ROCKWOOD	K1050 8"h X 36"w US32D 4BE - PUSH SIDE		
LOCKNET OR DH PACE	1	WALL STOP	ROCKWOOD	403 US26D		
LOCKNET OR DH PACE	1	LOCKSET	DORMA	M9048 LRB PRIVACY X WITH DUAL INDICATORS 626		
SET #21 - ENTRY (KEYCARD)						
YKK OR KAWNEER	1	PULL	YKK	H-1541-628	KAWNEER	137730 / Clear Anodized
YKK OR KAWNEER	1	EXIT DEVICE	YKK	P54453	DOM/FALCON	1790
YKK OR KAWNEER	1	DOOR CLOSER	LCN CLOSERS	H6104	LCN CLOSERS	#4041
YKK OR KAWNEER	1	CONTINUOUS HINGE	YKK	H20100	HAGER	050820-40
YKK OR KAWNEER	1	THRESHOLD	YKK	E90449	KAWNEER	037862
YKK OR KAWNEER	1	RIM CYLINDER	SARGENT	P42741	SARGENT	#63-34
YKK OR KAWNEER	1	DOOR SWEEP	YKK	H7107	KAWNEER	200795
YKK OR KAWNEER	1	FLOOR STOP	ROCKWOOD	P71203626	ROCKWOOD	483X-US32D
YKK OR KAWNEER	1	ELECTRIC STRIKE	HES	9400	HES	7089
SET #22 - EXTERIOR STORAGE (FLORIDA)						
LOCKNET OR DH PACE	1	PIANO HINGE	MCKINNEY	MCK-12HD 83" CLEAR FMK-CL		
LOCKNET OR DH PACE	1	LOCKSET	SARGENT	60-LB-8251-LL-US26D STORM MORTISE LOCK W/ DBOLT		
LOCKNET OR DH PACE	1	LOCK GUARD	ROCKWOOD	321 X US32D		
LOCKNET OR DH PACE	1	THRESHOLD	PEMKO	2005AT 40" THRESHOLD		
LOCKNET OR DH PACE	1	DOOR SWEEP	PEMKO	315 CN 40" NEOPRENE		
LOCKNET OR DH PACE	1 SET	WEATHER STRIPPING	PEMKO	303AS-42" X 84"		
LOCKNET OR DH PACE	1	DRIP TOP SWEEP	PEMKO	40" (346C40)		
LOCKNET OR DH PACE	1	CLOSER	SARGENT	351 CPSH EN		
LOCKNET OR DH PACE	1	KICK PLATE	ROCKWOOD	K1050 36"h X 34"w US32D 4BE		
LOCKNET OR DH PACE	1	LOUVER	PEMKO	LV-WSG 12" X 12" WINDSTORM RATED		
SET #23 - DTT CLOSET						
LOCKNET OR DH PACE	3	STANDARD HINGE	MCKINNEY	MPB68 5" x 4 1/2" US26D NRP		
LOCKNET OR DH PACE	1	LOCKSET	SARGENT	28 60-7G04 LL US26D		
LOCKNET OR DH PACE	1	ELECTRIC STRIKE	HES	7000C-12VDC-630- 2005M3		
LOCKNET OR DH PACE	1	WALL DOOR STOP	ROCKWOOD	409 US32D		
LOCKNET OR DH PACE	3	DOOR SILENCER	ROCKWOOD	608-RKW		
LOCKNET OR DH PACE	1	DOOR POSITION SWITCH	SECURITRON	DPS-W-Black		

DOOR SCHEDULE

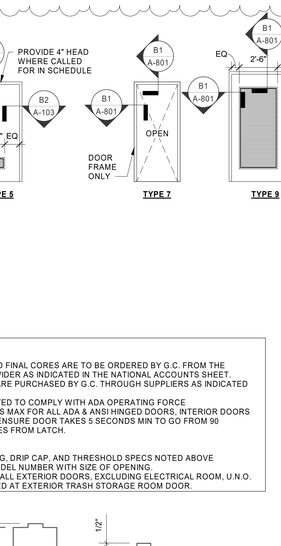
DOOR NUMBER	DESCRIPTION	DOOR SIZE HEIGHT	DOOR SIZE WIDTH	DOOR SIZE THICK	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	HARDWARE	FRAME MATERIAL	FRAME FINISH	REMARKS
10	DRIVE THRU	7'-0"	3'-0"	1 3/4"	6	ALUMINUM W FROSTED GLASS	DARK BRONZE	SET #21	ALUMINUM	DARK BRONZE	ADJUST CLOSER TO OPEN 95 DEGREES, MAX. REFER TO EXTERIOR ELEVATIONS FOR HEADJAMB DETAILS. PROVIDE KEYPAD.
11	DRIVE THRU SLIDING	7'-8"	7'-0"	8"	8	SEE TORMAX SHOPE DWGS	SEE TORMAX SHOP DWGS	(none)	SEE TORMAX SHOP DWGS	SEE TORMAX SHOP DWGS	(none)
12	KITCHEN	6'-8"	3'-0"	3/4"	4	STAINLESS STEEL	BRUSHED	SET #11	STAINLESS STEEL	(none)	(none)
13	LOADING	7'-0"	4'-0"	1 3/4"	3	SEE ZIGMAN PRODUCTS PACKAGE	SEE ZIGMAN PRODUCTS PACKAGE	(none)	SEE ZIGMAN PRODUCTS PACKAGE	PT-113	CONTACT ZIGMAN PRODUCTS CO FOR COMPLETE FRP DOOR ASSEMBLY PACKAGE. (888)-584-1303. PANIC HARDWARE ON INSIDE AND KEY ACCESS ON OUTSIDE. PROVIDE 34" x 44" KICK PLATE ON KITCHEN SIDE. PROVIDE 34" x 46" KICK PLATE ON SERVICE YARD SIDE. PROVIDE ELECTRONIC STRIKE. SIMILAR THRESHOLD AS STOREFRONT DOORS.
14	SERVICE	6'-8"	4'-0"	0"	7	(none)	(none)	(none)	HOLLOW METAL	PT-35	(none)
15	OFFICE	6'-8"	3'-0"	1 3/4"	2	INSULATED METAL	PT-35	SET #09	HOLLOW METAL	PT-17	PROVIDE KICK PLATE ON KITCHEN SIDE. PROVIDE HOLD-OPEN ON CLOSER. PROVIDE KEYPAD.
16	DTT CLOSET	7'-0"	3'-6"	1 5/8"	9	INSULATED METAL	PT-35	SET #23	HOLLOW METAL	PT-17	(none)
20	ENTRY (PAIR)	7'-0"	6'-0"	1 3/4"	6	ALUMINUM W GLASS	DARK BRONZE	SET #01	ALUMINUM	DARK BRONZE	ADJUST CLOSER TO OPEN 95 DEGREES, MAX. REFER TO EXTERIOR ELEVATIONS FOR HEAD/JAMB DETAILS.
21	VESTIBULE	7'-0"	3'-0"	1 3/4"	6	ALUMINUM W GLASS	DARK BRONZE	SET #02	ALUMINUM	DARK BRONZE	NO LOCKING DEVICE. ADJUST CLOSER TO OPEN 95 DEGREES, MAX.
22	VESTIBULE	7'-0"	3'-0"	1 3/4"	6	ALUMINUM W GLASS	DARK BRONZE	SET #02	ALUMINUM	DARK BRONZE	NO LOCKING DEVICE. ADJUST CLOSER TO OPEN 95 DEGREES, MAX.
24	DINING EXIT	7'-0"	3'-0"	1 3/4"	6	ALUMINUM W GLASS	DARK BRONZE	SET #03	ALUMINUM	DARK BRONZE	ADJUST CLOSER TO OPEN 95 DEGREES, MAX. REFER TO EXTERIOR ELEVATIONS FOR HEAD/JAMB DETAILS.
30	RESTROOM VESTIBULE	6'-8"	3'-0"	1 3/4"	1	S.C. WOOD	PL-40	SET #08	HOLLOW METAL	PT-17	UREA FREE. ADJUST THICKNESS TO ACCEPT LAMINATE.
31	RESTROOM	6'-8"	3'-0"	1 5/8"	1	S.C. WOOD	PL-40	SET #18	HOLLOW METAL	PT-35	UREA FREE. ADJUST THICKNESS TO ACCEPT LAMINATE.
32	RESTROOM	6'-8"	3'-0"	1 5/8"	1	S.C. WOOD	PL-40	SET #18	HOLLOW METAL	PT-35	UREA FREE. ADJUST THICKNESS TO ACCEPT LAMINATE.
33	CLOSET	6'-8"	6'-0"	1 5/8"	11	S.C. WOOD	PL-40	SET #24	HOLLOW METAL	PT-35	UREA FREE. ADJUST THICKNESS TO ACCEPT LAMINATE.
40	TEAM MEMBER	6'-8"	3'-0"	1 3/4"	10	S.C. WOOD	PT-35	SET #08	HOLLOW METAL	PT-17	PROVIDE KICK PLATE. PROVIDE HOLD-OPEN ON CLOSER. PROVIDE KEYPAD. PROVIDE ONE-WAY FILM ON GLASS
41	TEAM MEMBER	6'-8"	3'-0"	1 3/4"	2	S.C. WOOD	PT-35	SET #25	HOLLOW METAL	PT-17	PROVIDE KICK PLATE. PROVIDE HOLD-OPEN ON CLOSER.
42	TEAM STORAGE	6'-8"	3'-0"	0"	7	(none)	(none)	(none)	HOLLOW METAL	PT-35	(none)
52	TRASH ENCLOSURE	7'-0"	3'-4"	1 3/4"	5	HOLLOW METAL	PT-113	SET #13	INSULATED METAL	PT-113	LOCATED IN STORAGE ROOM AT REFUSE ENCLOSURE, PROVIDE 4" HEAD FRAME.
544	EMPLOYEE RR	6'-8"	3'-0"	1 5/8"	1	INSULATED METAL	PT-35	SET #20	HOLLOW METAL	PT-17	PROVIDE KICK PLATE ON KITCHEN SIDE. PROVIDE HOLD-OPEN ON CLOSER.

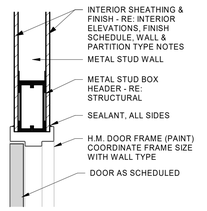




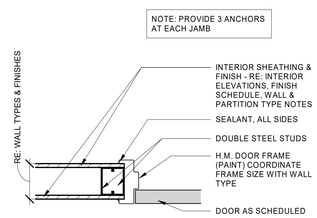
DOOR TYPES LEGEND
N.T.S.

NOTES
1. ALL CONSTRUCTION AND FINAL CORES ARE TO BE ORDERED BY G.C. FROM THE DOOR/HARDWARE PROVIDER AS INDICATED IN THE NATIONAL ACCOUNTS SHEET.
2. ALL DOOR AND HARDWARE PURCHASED BY G.C. THROUGH SUPPLIERS AS INDICATED ABOVE.
3. CLOSERS TO BE ADJUSTED TO COMPLY WITH ADA OPERATING FORCE REQUIREMENTS OF 5 LBS MAX FOR ALL ADA & ANSI HINGED DOORS. INTERIOR DOORS HINGED WITH CLOSER. ENSURE DOOR TAKES 5 SECONDS MIN TO GO FROM 90 DEGREES TO 12 DEGREES FROM LATCH.
4. "NOT USED"
5. "NOT USED"
6. FOR WEATHERSTRIPPING, DRIP CAP, AND THRESHOLD SPECS NOTED ABOVE COORDINATE EXACT MODEL NUMBER WITH SIZE OF OPENING.
7. DRIP CAP REQUIRED AT ALL EXTERIOR DOORS, EXCLUDING ELECTRICAL ROOM, U.N.O.
8. NO SILENCERS REQUIRED AT EXTERIOR TRASH STORAGE ROOM DOOR.

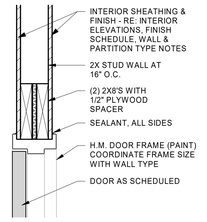




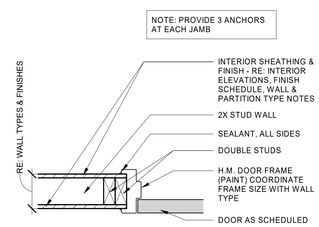
HEAD @ METAL STUD WALL



JAMB @ METAL STUD WALL



HEAD @ WOOD STUD WALL

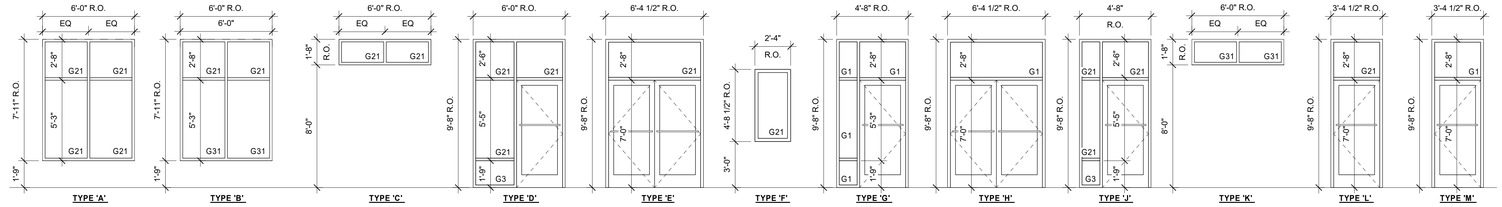


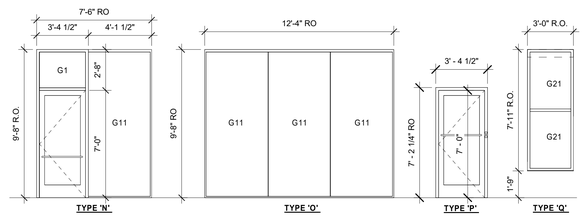
JAMB @ WOOD STUD WALL

NOTE: REFER TO WALL TYPES FOR WALL THICKNESS, INTERIOR ELEVATIONS AND FINISH PLAN FOR WALL FINISHES, AND DOOR SCHEDULE FOR DOOR FRAME MATERIAL.

HOLLOW METAL FRAME PROFILES
N.T.S.

B1 INTERIOR HOLLOW METAL FRAME HEADS & JAMBS
1 1/2" = 1'-0"





WINDOW TYPES LEGEND
N.T.S.

GLAZING SCHEDULE

MARK	THICKNESS	TYPE	TINT	REMARKS
G1	1/4"	TEMPERED	CLEAR	
G3	1/8" (2)	LAMINATED	CLEAR	DUAL LAYER
G11	1/2"	TEMPERED	CLEAR	BUTT GLAZE
G21	1"	TEMPERED	CLEAR - LOW-E	PROVIDE THERMALLY BROKEN AT EXTERIOR LOCATIONS
G31	1"	TEMPERED	ACID ETCHED - LOW-E	PROVIDE THERMALLY BROKEN AT EXTERIOR LOCATIONS

NOTES:
1. PROTOTYPICAL STOREFRONT SYSTEM (MULLIONS & GLAZING COMBINED) U-VALUES: 0.46. SHGC: 0.28 (CLEAR GLASS - TINTED GLASS WILL NOT BE ACCEPTED)

NOTES:
1. STOREFRONT FRAMING FINISH (ST-1) TYP.- REF. EXTERIOR FINISH SCHEDULE
2. REF INTERIOR ELEVATIONS AND FINISH SCHEDULE FOR WINDOW SILL FINISHES
3. REF DOOR SCHEDULE AND TYPES FOR STOREFRONT DOOR INFORMATION

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

ROY A. WILLIAMS ARCHITECT
License No: 21AI02240800
Issue Date: 05/16/2022
Expiration Date: 07/31/2023

750 OLD HICKORY BLVD. SUITE 2-250
BRENTWOOD, TN 37027
PHONE: 615.377.3111
FAX: 615.377.0978
EMAIL: GENMAIL@EANDHARCH.COM

CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT
3	07/22/2022	DESIGN NOTES

CONSTRUCTION

CONSULTANT PROJECT # 04591
PRINTED FOR CONSTRUCTION
DATE 1/26/22
DRAWN BY Author

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SHEET
DOOR AND WINDOW LEGENDS

SHEET NUMBER
A-801

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END OF INDEX

DIVISION 1 - GENERAL REQUIREMENTS

SECTION - C01010: WORK COVERED BY CONTRACT DOCUMENTS

PART I - GENERAL

1.1 INTENT OF DRAWINGS AND SPECIFICATIONS

A. The Contractor shall complete all Work as provided for in Contract Documents including Drawings and Building Specifications. Anything mentioned in the Building Specification, supplemental reports, soil reports, environment reports, and not shown on the Drawings, or shown on the Drawings and not mentioned in the Building Specifications, shall be furnished and installed as if shown and mentioned in both. The Contractor shall furnish all materials or labor required to complete Work shown on the Drawings and called out in the Building Specifications, to include labor and material requirements reasonably inferable therefrom as being necessary to complete the work, whether each and every single item necessary to completion is specified or detailed or not.

1.2 CONTRACTOR RESPONSIBILITY FOR WORK REQUIRED

A. The organization of the Building Specifications into Divisions, Sections and Paragraphs and the arrangement of the Drawings are not intended to control the Contractor in dividing the Work among Subcontractors or to establish the limits and extent of work to be performed by a particular trade. The Contractor alone is responsible for the completion of the entire work as drawn and specified, complete in place and in functional or operating conditions. The division of the Building Specifications into sections and paragraphs is for convenience only and not for the purpose of limiting or restricting the performance of any portion of the Work to any particular trade.

PART II PRODUCTS

Not used

PART III EXECUTION

Not used

END OF SECTION C01010

SECTION - C01020: OWNER FURNISHED ITEMS

PART I - GENERAL

1.1 OWNER'S RIGHT TO INSTALL ITEMS AND/OR EQUIPMENT PURCHASED UNDER SEPARATE CONTRACTS

A. Owner retains the right to place and install, in coordination with Contractor's construction schedule, as many items and/or as much equipment as he may require during the progress of the Work, before completion of the various parts of the Work. This shall not in any way inhibit completion of the Work or any portion thereof, nor shall it signify Owner's acceptance of the Work or any portion thereof.

PART II - PRODUCTS

2.1 CATEGORIES OF ITEMS

A. By Owner: Items shown or noted as "B.O." or "By Owner" on the drawings and/or in the specifications shall be furnished by Owner to Contractor/subcontractor for installation by Contractor/subcontractor as part of the construction contract. SEE RESPONSIBILITY SCHEDULE.

Contractor/subcontractor shall receive, to the extent of unloading at the job site as required, store and be responsible to the extent of carrying necessary insurance to cover items in case of theft, fire, loss, malicious damage and other miscellaneous damage. Included, but not inclusive, in this category are:

B. Not In Contract (NIC): Items shown or noted "(NIC)" on the drawings and/or in the specifications shall be furnished and installed by Owner under separate contract. SEE RESPONSIBILITY SCHEDULE.

PART III - EXECUTION

3.1 RECEIPT OF ITEMS

A. During the course of construction, some deliveries of equipment and miscellaneous items will be made to the job site by common carrier. Contractor shall receive, unload, and inspect items for conformance to delivery ticket(s) and for damage. If during receipt any missing or damaged items are observed, Contractor shall:

1. Make notation of any and all discrepancies on the delivery ticket(s).
2. Call delivery carrier and advise him of the problem.
3. Call the Owner's Purchasing Contact and advise of any problems.

END OF SECTION C01020

SECTION - C01030: ALTERNATE AND SUBSTITUTION PROCEDURES

PART I - GENERAL

1.1 DESCRIPTION

A. Section includes Alternates and Substitution Submittal Process

1.2 ALTERNATE

A. Acceptance: Alternates will be exercised at option of Owner. The contractors are required to use the specified materials. Alternate proposals for specified materials will not be received or reviewed. Exception: If there is a supply issue, contact the Owner immediately.

B. Coordination: Coordinate related work and modify surrounding work as required to complete the Work, including changes under each Alternate, when acceptiance is designated in Owner-Contractor Agreement.

1.3 SUBSTITUTION

A. Acceptance: Substitution of material, article or method will be exercised at the option of the Owner. When material, article, or method is specified using name of proprietary product manufacturer, vendor or method only that item will be allowed unless a "substitution" clause is provided in that section.

1. Cost for redesigns due to substituted items are the responsibly of the Contractor.

B. Bidder represents the following in making their request for substitution(s).

1. Has personally investigated proposed product or method and determined it is equal in all respects that specified.
2. Will furnish same guarantee for substitution as for product or method specified.
3. Will coordinate installation of accepted substitution into Work, making design and construction changes to complete Work in all respects following Contract requirements without additional cost to the Construction.

C. Submittal: For substitutions that do not change design intent, submit three (3) copies of complete data set to permit complete analysis of proposed substitutions.

4. Identification including manufacturer name, address and web site
5. Manufacturer literature
6. Samples where appropriate
7. Data relating to impact on construction schedule by proposed substitution

1.4 ALTERNATE PROPOSALS

NONE

PART II PRODUCTS

Not used

PART III EXECUTION

Not used

END OF SECTION C01030

SECTION C01040 - COORDINATION

PART I GENERAL

1.1 GENERAL INFORMATION

A. The mechanical and electrical drawings are a part of the Contract Documents and shall be followed as closely as actual construction of the building and the work of the other trades will permit.

B. All equipment and materials shall be installed according to the manufacturer's instructions.

1.2 STANDARDS, LAWS AND ORDINANCES

A. This work shall be done in strict accordance with the local building codes, National Fire Protection Association, ASTM, U/L, Inc. and other nationally recognized testing or trade association standards.

1.3 PERMITS AND FEES

A. Obtain and pay all permits, deposits, fees and inspections necessary for each trade's work. The Contractor shall be reimbursed for all non-refundable costs.

B. Make arrangements for any required inspections by local or state authorities in a timely manner so as not to delay occupancy of the building.

1.4 ACCESS PANELS

A. Where control or shut-off valves, heating coils or other equipment which will be required to be operated serviced or adjusted is installed above a non-removable ceiling system or behind furred walls, Mechanical or Electrical Subcontractors shall furnish and deliver access panels as required to the General Contractor.

B. Access panels shall be large enough to make possible the servicing adjustment, operation, removal and/or replacement of concealed equipment, but shall be at least 24" x 24" in ceilings and 16" x 24" in walls.

C. Where required they shall be U/L, Inc. or FM (Factory Mutual) "B" labeled.

1.5 GENERAL REQUIREMENTS FOR PRODUCT DELIVERY, STORAGE AND HANDLING

A. Deliver materials in manufacturer's original sealed containers.

1. Labels legible and intact identifying brand name and contents.
2. Open containers so as not to destroy labels.

B. Storage

1. Store materials inside vendor cover, stack flat or on edge as recommended by
2. Store materials in dry places, protect from leakage.
3. Do not overload floor system.

C. Handling

1. Do not drag any material across other stored material.
2. Handle with care to avoid damage.

D. Specific requirements as applicable will appear in later Sections.

1.6 TEST BORINGS

A. Test borings have been made at various locations within the construction area and the results of such borings are available for inspection at the office of the General Contractor. They are not part of the Contract Documents. Boring logs and reports are made available for information only, and the continuity of conditions represented therein are not guaranteed. All conclusions drawn by the Contractor as to existing conditions shall be the result of his own investigations and studies.

1.7 WEATHER CONDITIONS

A. In the event of temporary suspension of work, during inclement weather, the Contractor shall, and will cause his Subcontractors to protect carefully his and their work and materials against damage or injury from the weather. If, in the opinion of the Architect, any work or materials shall have been damaged or injured by reason of failure on the part of the Contractor or any of his Subcontractors so to protect his work, such materials shall be removed and replaced at the expense of the Contractor.

1.8 TIME FOR COMPLETION

A. It is hereby understood and mutually agreed, by and between the Contractor and the Owner, that the date of beginning and the time for completion as specified in the contract of the work to be done hereunder are ESSENTIAL CONDITIONS of this Contract, and it is further mutually understood and agreed that the work embraced in this contract shall be commenced on a date to be specified in the Notice to Proceed.

B. The Contractor agrees that said work shall be prosecuted regularly, diligently, and uninterruptedly at such a rate of progress as will insure full completion thereof within the time specified in the contract. It is expressly understood and agreed, by and between the Contractor and the Owner, that the time for the completion of work described herein is a reasonable time for the completion of the same, taking into consideration the average climatic range and usual industrial conditions prevailing in this locality.

1.9 GRADES, LINES, LEVELS

A. The general contractor shall employ an experienced, reliable approved surveyor to complete the primary layout work and may utilize a competent field engineer to establish secondary lines and levels. The Contractor may rely upon site survey plot provided by the Owner to be true and accurate.

B. Locate foundations on property as drawings show. Establish and maintain, street lines, curb lines, levels, building lines, column center lines, base lines and bench marks.

C. Lay out partition lines and buck centers on form work and on rough floors for information of all trades.

D. Lines and levels shall be established from existing monuments located near site. Elevations given on drawing shall be established by levels from nearest bench mark. Datum reference is noted on drawings.

E. Should doubt arise as to accuracy of lines, levels or surveys established by surveyor, Architect reserves right to call in another surveyor, verify all previous work and establish additional lines, levels, and surveys as necessary to settle all points in question. Expense of such additional survey work shall be borne by Contractor if Contractor's surveyor was in error.

F. The mechanical trades shall be responsible for the layout of the ductwork and piping based on the reference lines and bench marks established by the Contractor.

1.10 SLEEVES AND HANGERS

A. Any contractor or Subcontractor required to furnish and install conduits, outlets, piping sleeves, boxes inserts or other materials, or equipment necessary to be built into work to be performed by the Contractor shall promptly furnish and set such sleeves or other materials as per requirements of construction program. They shall also furnish data to other trades regarding opening required in floor slabs, walls, metal roof decks, etc.

B. All trades shall cooperate fully in connection with performance of above work, as cutting in new work is neither contemplated nor will it be tolerated.

C. Necessary expenditures incurred for approved boxing out, filling or subsequent drilling or coring shall be borne without extra cost to Owner.

1.11 CUTTING AND PATCHING

A. Except as otherwise specified, each subcontractor shall execute all cutting and patching in his work that may be required by others so that the engagements between the various material will be neat and proper. Cutting of any structural portions of the building shall not be permitted except as approved by the Owner. Each subcontractor shall locate and provide sleeves, suitable to the general contractor, for all holes, chases, openings, or block-outs required for the installation of their work. All such openings shall be straight, true, and of proper size. No excessive cutting will be permitted, nor shall openings be located to alter the installation of any structural member from that indicated on drawings. After the work has been installed, all openings shall be carefully patched and fitted around as directed and to the satisfaction of the Owner.

1.12 BARRICADES AND PROTECTION

A. The Contractor shall provide and maintain at all times during execution of work as required by duly constituted authorities, or as otherwise may be appropriate, to insure safety of workmen, passersby, employees of Owner, and all other persons.

1. Temporary barricades and enclosures, adequately lighted.
2. Barricades and closures for openings as nature of work demands.
3. Barricades, partitions and enclosures, where exposed to public view, shall be of neat design, substantially construction and neatly painted.

B. The Contractor shall have sole responsibility for the erection and proper maintenance at all times, as required by laws and regulations and otherwise by the conditions and progress for the work, of proper safeguards for the protection of property, workmen and the public and shall post signs warning against the dangers created by openings, stairways, falling materials, open excavations and all other hazardous conditions; and the Contractor shall designate a responsible member of his organization on the job whose duties shall include prevention of accidents.

C. Adequate precautions shall be taken by the contractor against fire throughout all the Contractor's and Subcontractors' operations. Flammable materials shall be kept at an absolute minimum, and, if any, shall be properly handled and stored. Except as otherwise expressly provided herein, the Contractor shall not permit fires to be built.

1.13 ACCIDENTS

A. The Contractor shall provide and make available medical supplies and equipment necessary to supply on site first aid to all personal injured in connection with the work.

B. The Contractor shall report any and all accidents in writing to Insurance Company, Owner and Architect within 24 hours of occurrence. The report shall contain the following information and it shall be the responsibility of the Contractor to have an accident report filled out in triplicate and submitted as required above with (1) Name of Person or Persons and Home Address, (2) Location of Occurrence, (3) Time of Day and Date, (4) Description of Occurrence, (5) Statements of Witnesses, and (6) Signature of Contractor's Superintendent.

C. In addition, if death or serious injuries or serious damages are caused, the accident shall be reported by the contractor to the Architect and to the Owner immediately by telephone or messenger. If any claim is made by anyone against the Contractor or any Subcontractor on account of any accident, the Contractor shall promptly report the facts in writing to the Owner, giving full details of the claim.

1.14 TEMPORARY STAIRS, LADDERS, RAMPS

A. This General Contractor shall furnish and maintain temporary stairs, ladders, ramps, scaffolds, runways, chutes, and like, required for proper execution of work by trades. Such apparatus equipment, and construction shall be as per State or Local laws applicable thereto.

1.15 TEMPORARY TOILETS

A. The contractor shall furnish, install and maintain the necessary temporary toilet facilities for all workmen; said toilets shall be placed at the time work starts and maintained until such time as the permanent toilet facilities are put in operating condition. Unless directed otherwise, the temporary toilets shall be of the chemical type and shall be placed and maintained as required. Necessary temporary enclosure shall be provided to accommodate the toilets. The toilets shall be maintained in a sanitary condition and removed together with their contents when directed. These units shall be serviced as required, to include emptying tanks, recharging with a germicidal and deodorizing solution and scrubbing entire interior with a germicidal solution.

1.16 TEMPORARY WATER SERVICE

A. The Contractor shall provide temporary water service. Provide all extensions thereof required for work and remove such extensions at completion of work, restoring water piping to condition existing at start of work. Use care to prevent water waste. Maintain valves, connections, hoses, in good condition.

1.17 TEMPORARY FIELD OFFICE

A. The Contractor shall provide and maintain a temporary office or trailer on the job site. This office shall be equipped with plan table, plan files, and enclosed filing space for shop drawings, meeting notes, and other pertinent information of importance to the job. Office shall be located on site where directed and removed when work is complete. Provide electric light, and heat connected to utility systems. Move temporary office inside new building when space is adequately enclosed.

1.18 TEMPORARY ELECTRIC SERVICE

A. The Contractor shall provide temporary connection to the local lighting and power supply in accordance with the Utility Company's requirements and shall extend lines to central distribution points not more than 100 feet apart on each floor within the building as directed by the Architect. All appurtenances including poles, boxes and anchorage shall be installed by the Contractor.

B. Service furnished by the General Contractor to each distribution plant shall be 110 volts, single phase, 60 cycle for light and 208 volts, 3 phase for power, of capacity for the anticipated connected loads, fused in a convenient box.

C. The General Contractor shall also provide general illumination in all storage areas, corridors, toilets and stairwells.

D. Each Subcontractor requiring additional wiring, varied or increased service wiring for his construction needs etc., shall make his own arrangements for same with the Contractor and shall be required to assume the cost of same.

1.19 TEMPORARY HEATING

A. The Contractor shall provide at his own expense, temporary enclosure, fuel and equipment necessary for heating materials incorporated in his work, for protection of his work before and after building is enclosed, and before permanent heating system can be operated to heat the respective space.

B. After building is enclosed and permanent heating plant is in operation, or when directed, the Owner shall provide, sufficient heating capacity to maintain all enclosed areas at a minimum temperature required to perform the various finishing operations but in no case to be allowed to go below a temperature which would be harmful to previously installed work. Temporary heat will be required when temperature at night falls below 40 degrees F.

C. Use permanent equipment when warranted, before the building is accepted by the Owner. Immediately prior to final acceptance of building, service, repair and rehabilitate all permanent equipment and facilities used for temporary work so that they shall be in perfect condition. The cost of fuel consumed by the permanent plant for temporary heating shall be paid by the Contractor.

1.2 GUARANTEE

A. Neither the final certificate of payment nor any provision in the Contract Documents no partial or entire occupancy of the premises by the Owner shall constitute an acceptance of work not done in accordance with the Contract Documents or relieve the Contractor of liability in respect to any warranties or responsibility for faulty materials or workmanship, and no error or oversight in superintendence, inspection, or issuance of any certificate, or delay in discovery or rejection of defective or improper work or materials by the Owner shall relieve the Contractor of any of its obligations under this Agreement.

B. In addition to specific guarantees required by the Contract for work to be performed, Contractor shall guarantee all work to be performed and all materials to be furnished under contract against defects in materials or workmanship for a period of 1 year from date of substantial completion unless longer guarantees are specified.

C. In case of work performed by Subcontractors and where guarantees are required, the Contractor shall secure warranties from said Subcontractors and shall deliver copies of same to the Owner upon completion of work. Delivery of said guarantees shall not relieve contractor from any obligation assumed under any other provision of the Contract.

D. Should any defects develop in aforesaid work, within specified periods, due to faults in materials and/or workmanship, the Contractor shall make repairs and perform all necessary work to correct defective work, as approved by the Owner. The Contractor shall commence such repairs, corrective work within 5 days after written notice to Contractor by Owner, and the Contractor shall bear all costs in connection herewith. The Owner shall give notice of observed defects with reasonable promptness.

E. In case Contractor fails to do work so ordered, Owner may have work done by others, and the Owner may charge cost thereof against monies retained pursuant to the contract. If said retained monies are insufficient to pay such costs, or if no money is available, Contractor and his sureties shall pay Owner the entire balance of the cost of such work.

1.21 CLEANING

A. The Contractor shall keep premises free from accumulations and waste materials or rubbish. At completion of work, the Contractor shall remove all rubbish and waste materials from and about building and all tools, construction equipment, scaffolding and surplus materials and leave work "broom clean". In case of dispute, Owner may remove rubbish and charge and allocate such cost to several Contractors as Architect shall determine to be just.

B. The Contractor shall repair any damage to streets, pavement, sidewalks, and adjacent premises incurred by reason of his performance to the contract, and restore to operating condition any sewers, drains, and other facilities used by Contractor.

C. Each Mechanical and Electrical trade shall be responsible for keeping their own stock of materials and equipment stored on the premises in a neat and orderly manner. Packing materials, crates, waste and construction debris shall be maintained in compact piles.

D. The words "clean up" are defined as a complete cleaning of the exterior and interior include, but not limited to the following; window and storefront glass and frames, damp cloth wiping of dust from cabinets, countertops, stairways, etc., vacuuming of carpeted areas, and sweeping of all other floor surfaces.

1.22 WORK RESTRICTIONS

A. Nonsmoking Building: Smoking is not permitted within the building or within 25 feet (8m) from entrances, operable windows, or outdoor air intakes.

PART II PRODUCTS

Not used

PART III EXECUTION

Not used

END OF SECTION C01040

SECTION - C01050: FIELD ENGINEERING

PART I - GENERAL

1.1 SECTION INCLUDES

A. Survey and Field Engineering
B. Submittals and Quality Control
C. Project Record Documents

1.2 QUALITY ASSURANCE

A. Surveyor: Employ experienced Civil Engineer or registered Land Surveyor to establish layout, lines, levels and grades, and check Contractor's placement of batter boards, grades stakes, and other controls, and to verify same from time to time during progress of construction of Work. Engineer or Surveyor shall be registered in the state of this project.

B. Measurements: Before ordering materials or doing any work, verify measurements at site and check same against Drawings. No extra charge will be allowed on account of differences between actual dimensions and measurements shown on Drawings. Submit any differences found to Owner for resolution before proceeding with Work.

1.3 EXECUTION

A. Inspection: Verify locations of survey control points prior to starting work. Promptly notify Owner of any discrepancies discovered.

B. Survey Control Points: Protect survey control points prior to starting site work; preserve permanent reference points during construction. Make no changes without prior written notice to Owner. Promptly report to Owner the loss or destruction of any reference point or relocation required because of changes in grades or other reasons. Replace dislocated control points based on original survey control.

C. Survey Requirements:

1. Establish a minimum of two permanent bench marks on site, referenced to established control points. Record locations, with horizontal and vertical data, on Project Record Documents.
2. Establish lines and levels, locate and lay out by instrumentation and similar appropriate means:

a. Site improvements, including pavements; stakes for grading, fill and topsoil placement; and utility locations, slopes, and invert elevations.
b. Grid or axis for structures.
c. Building foundation, column locations, and ground floor elevations.

PART II PRODUCTS

Not used

PART III EXECUTION

Not used

END OF SECTION C01050

SECTION - C01300: SUBMITTALS

PART I - GENERAL

1.1 REQUIREMENTS INCLUDED

A. Procedures
B. Schedule of Values - Part of Contract Proposal
D. Shop Drawings
C. Product Data

1.2 Procedures

A. Refer to the Contractor's Contract for required procedures.

1.3 CONSTRUCTION PROGRESS SCHEDULES

A. Construction Schedules: Refer to the contract regarding required schedules.
B. Sequence of Construction: Show complete sequence of construction by activity, identifying work of separate stages and other logically grouped activities.
C. Percentage of Completion: Show projected percentage of completion for each item of work as of time of each Application for Payment.
D. Progress Reports: The Contractor shall, on Friday of each week, complete and make distribution of a synopsis of job progress by trade category with distribution as directed by Owner. The form shall be completed by the Contractor's job superintendent, complete with a "Remarks" space for written communication of minor job problems and requests which can be made under field conditions.

1.4 SHOP DRAWINGS

A. With few exceptions, shop drawings will not be required by the Architect or Owner. The General Contractor may require them at their discretion. The Owner, however, will require information, data, specifications, or procedures for all material and specifications of procedures for all materials and equipment to be submitted by the G.C. at closeout.

1.5 PRODUCT INFORMATION

A. General: Submit only pages which are pertinent; mark each copy of standard printed data to identify pertinent products, referenced to Project Manual Section and Article number. Show reference standards, performance characteristics, and capacities; wiring and piping diagrams and controls; component parts; finishes; dimensions; and required clearances.

B. Modifications: Modify manufacturer's standard schematic drawings and diagrams to supplement standard information and to provide information specifically applicable to the work. Delete information not applicable.

C. Copies Required: Submit number Contractor requires, plus two copies which will be retained by Owner.

PART II PRODUCTS

Not used

PART III EXECUTION

Not used

END OF SECTION C01300

Chick-fil-A
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Atlanta, Georgia
30349-2998

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CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT

CONSULTANT PROJECT # 04591
PRINTED FOR PERMIT
DATE 1/26/22
DRAWN BY Author

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SHEET
SPECIFICATIONS

SHEET NUMBER
A-901

PERMIT

BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_ARC.rvt
1/26/2022 1:53:22 PM
10-LE-04591-A-901-SPECIFICATIONS

SECTION - C01410: TESTING LABORATORY SERVICES

PART I - GENERAL

1.1 SECTION INCLUDES
- A. Owner supplied third party inspections, coordinated by the General Contractor.
- B. Review and become familiar with "Third Party Inspections" as part of the FSU Super Package under the General Contractor's contract..

1.2 RELATED SECTIONS
- A. General Conditions: Inspections, testing, and approvals required by public authorities
- B. Testing Adjusting and Balancing of Systems
- C. Contract Closeout: Record Documents

1.3 CONTRACTOR RESPONSIBILITIES
- A. Cooperate with laboratory personnel, and provide access to Work.
- B. Provide incidental labor and facilities to provide access to work to be tested, to obtain and handle samples at the site or source of products to be tested, to facilitate tests and inspections, and for storage and curing of test samples.
- C. Notify Owner and laboratory 24-hours prior to expected time for operations requiring inspection and testing services.

PART II - PRODUCTS

Not Used

PART III - EXECUTION

Not Used

END OF SECTION C01410

SECTION - C01510: TEMPORARY UTILITIES

PART I - GENERAL

1.1 SECTION INCLUDES
- A. Temporary Electricity and Lighting
- B. Temporary Heating
- C. Temporary Water
- D. Temporary Sanitary Facilities
- E. Temporary Fire Protection
- F. Payment

1.2 TEMPORARY ELECTRICITY AND LIGHTING
- A. Provide wiring, fuses, disconnect switches, safety devices, junction boxes, panel boxes, ground fault protections, and transformer if required, in connection with use of temporary electrical service for lighting and power during construction. All items and installations are to conform to the requirements of the National Electric Code, and "Occupational Safety and Health Act." Observations by the Owner, his agents, or any recognized agency indicating failure to comply with code requirements shall be cause for immediate suspension of job site operations by the Contractor until the system is in full compliance. No extension to the Contract Time shall be allowed for such suspension of job site operations.

1.3 TEMPORARY HEATING
- A. Requirement: Provide, pay for and maintain, all temporary heating facilities required during the progress of the Work to protect materials, finished work and equipment against injury from dampness and cold. Temporary heat shall be required when the outside temperature is low enough to damage or affect in any way the performance or quality of any product or material being stored in the building, in any temporary storage area, or any material incorporated into the work. Temporary heat shall also be required when the outside temperature is low enough to significantly slow or hamper the effectiveness of workmen on the job.
- B. Use of Permanent Heating System: Permanent heating system may be used for this purpose after completion, provided Contractor obtains written permission from Owner, and agrees to pay all charges for fuel, attendance, maintenance, repair and replacement, if necessary, to the equivalent of new conditions, including replacement of filters and cleaning of grilles and diffusers.

1.4 TEMPORARY WATER
- A. Provide temporary storage tanks, piping, valves, fittings, hose and hose connections as required for use of water during construction and testing.

1.5 TEMPORARY SANITARY FACILITIES
- A. Furnish, install and maintain ample sanitary facilities for use of workmen of all trades engaged in work under the contract. Temporary toilets shall be constructed at time work is commenced and shall be subject to applicable City Ordinances, Health Department requirements and Rules and Regulations of governing authorities by Code or otherwise.

1.6 TEMPORARY FIRE PROTECTION
- A. Observe and enforce compliance by all trades engaged in work under the contract with requirements of City, County, State, Federal and Insurance Underwriter's regulations to minimize fire hazards incidental to the work. Provide operable fire extinguishing devices in well-marked, accessible locations distributed throughout the project in compliance with governing codes and ordinances.

1.7 ARRANGEMENT AND PAYMENT
- A. The Contractor shall make all necessary arrangements and shall pay for water, electric power, gas, and sewage service during the construction of the building as may be required for use of his own forces and those of his subcontractors, and as required by them until acceptance of the work by the Owner.

PART II - PRODUCTS

Not Used

PART III - EXECUTION

Not Used

END OF SECTION C01510

SECTION - C01520: SECURITY

PART I - GENERAL

1.1 WATCHMAN SERVICE
- A. Contractor may employ and pay for watchmen, or a watchmen's service, as he deems necessary to protect his own interests, and he shall be responsible for and pay for losses or damages to the Owner's materials or other property as a result of theft, mysterious disappearances or intrusions by strangers.

PART II - PRODUCTS

Not Used

PART III - EXECUTION

Not Used

END OF SECTION C01520

SECTION - C01530: PROJECT IDENTIFICATION AND SIGNS

PART I - GENERAL

1.1 PROJECT SIGN FRAME
- A. Within seven days of date of notice to proceed, furnish and erect one (1) project identification sign, in a location directed by the Owner: Sign shall consist of 4x4 inch posts supporting a 4'-0" high by 8'-0" wide sheet of 3/4 inch thick exterior A/C plywood. Locate post 1'-0" from ends of plywood; 6'-0" centers. Bottom of plywood shall be at 4'-0" above grade.
- B. Framework shall receive a fabric sign to be furnished by Owner and installed by General Contractor. Installation of sign will be by wrap and staple method; long staples, closely spaced on back side.

1.2 CONTRACTOR SIGNS AND ADVERTISING
- A. Only the General Contractor may have a sign, at Contractor's expense, if so desired. No other free-standing signs or advertising of any kind other than "warning" signs and notices required by law, will be permitted on the site or about the premises.

PART II - PRODUCTS

Not Used

PART III - EXECUTION

Not Used

END OF SECTION C01530

SECTION C01570 - EROSION AND SEDIMENTATION CONTROL

PART I - GENERAL

1.1 NOTICE OF INTENT
- A. Contractor and Owner shall jointly submit an EPA Notice of Intent (NOI) prior to construction.

PART II - PRODUCTS

2.1 PRODUCTS
- A. Grass: Materials for seeding and sodding shall conform to Section 02905.
- B. Fertilizer: Use commercial grade fertilizers to insure germination and growth. Analysis by weight shall be 16-4-8 or 15-5-10 for Nitrogen, Phosphoric Acid and Potash.
- C. Silt Fence: Lundin "Silt Buster", Mirafi "Envirofence" or approved equal.
- D. Straw Bales: Standard rectangular hay bales bound by baling wire
- E. Sediment Traps: Standard manufacture designed to fit the intended inlet.

PART III - EXECUTION

3.1 GENERAL
- A. Contractor shall keep disturbed areas to a minimum required to adequately perform the work. At all times the Contractor shall maintain the site in such a manner that minimizes erosion of the site. The execution of work under this section shall be in conformance with the NPDES rulings and the site Storm Water Pollution Prevention Plan.

3.2 SEEDING
- A. Disturbed portions of the site and stockpile areas shall be seeded within 14 days if the phasing of the construction operations are anticipated to leave those portions of the areas unworked for 21 days or more.
- B. Seeding operations shall be performed in accordance to the state's Standard Specifications, using the materials specified and the season in which the seeding operations are to occur.
- C. Seeded areas shall be maintained until the project is accepted by the Owner. Maintenance shall include but not be limited to watering, fertilizing, reseeding, mowing and erosion repair as may be required. Grass shall be cut when the average height of the grass reaches 6 inches. Clippings may be mulched back into the seeded areas.

3.3 TEMPORARY AND PERMANENT SWALES
- A. Description
  1. Temporary and permanent drainage swales shall be provided as required to carry drainage away from the work area to an approved outfall point.
  2. Unless otherwise shown on the drawings, swales shall be earthen "V" shaped channels graded to a sufficient depth and slope to carry the anticipated runoff, but at least 2 feet deep with a slope of 0.1 percent.
  3. Swales not designated to remain in place at the completion of the contract shall be cleaned of any muck, debris and other unsuitable material and filled with approved fill before final grading operations begin.
  4. Swales shall have erosion control barriers as required.
  5. All permanent swales shall be sodded to a minimum width of 10 feet on either side of the centerline of the swale.
- B. Maintenance
  1. During the course of construction all temporary swales constructed for this contract shall be maintained so as to allow proper drainage from the construction area. Before Contractor leaves the site at the end of construction, all temporary swales to remain shall be placed in good working condition.
  2. Contractor shall work with other contractors at the site in maintaining existing swales and ditches.
  3. Where necessary for access to the work areas, adequately sized culverts shall be installed and maintained to provide the access without disturbing the site drainage.
  4. Care shall be taken not to rut and damage sodded swales. Damaged swales shall be repaired immediately.
  5. Keep sodded swales mowed.

3.4 DRAINAGE DITCHES
- A. Drainage ditches shall be hydromulched immediately upon final grading.
- B. Erosion of the banks of the drainage ditches shall be repaired immediately and re-stabilized.
- C. Sediment barriers shall be placed at intervals along the ditch as shown on the plans and as necessary to help trap sediment on the site. Sediment and other debris trapped by the barriers shall be removed on a daily basis as needed.
- D. Ditch side slopes shall not be steeper than 3 feet horizontal to 1 foot vertical.
- E. Maintenance of the ditches during construction shall include but not be limited to mowing, re-grading, sediment removal, re-hydromulching, bank repair and debris removal.
- F. Sediment removed from the ditches may be respread on the site as directed by the Owner.

3.5 FILL AND CUT SLOPES
- A. Fill slopes in all cases shall be no steeper than 3:1 unless specifically stated on the plans or approved by the Owner's soils engineer.
- B. When cut slopes exceed 2:1 for depths over 3 feet, proper bracing and shoring per OSHA requirements shall be used and maintained.
- C. For permanent slopes, cut or fill, between 2:1 and 10:1, erosion protection shall be provided with hydromulching, sodding, seeding, or other method as approved.

3.6 SEDIMENTATION BASINS
- A. Description
  1. Sedimentation ponds shall be provided where designated on the plans.
  2. All drainage from cleared areas shall be routed through the sedimentation basin.
  3. Contractor will be responsible for the operation and maintenance of the pond during construction.
- B. Maintenance
  1. Contractor shall be responsible for maintaining the pond and the outfall and sediment retarding structure in good working condition throughout the time the pond is to be in operation.
  2. When sediment and debris fill the pond to over 1/3 its designed capacity, the pond shall be cleaned out.

3.7 EROSION CONTROL BARRIERS
- A. Erosion control barriers shall be provided at intervals along swales and ditches as shown on the drawings and as necessary to meet the requirements of the Storm Water Pollution Prevention Plan.
- B. The barriers shall be silt fence or hay bales placed as shown on the drawings and details.
- C. Barriers shall be maintained in good working condition and replaced when damaged.

END OF SECTION C01570

SECTION - C01700: CONTRACT CLOSEOUT

PART I - GENERAL

1.1 REQUIREMENTS
- A. All the operations and/or documents described in this section shall be completed and/or delivered to the project manager prior to acceptance of the work and final payment.

1.2 CLEANING
- A. General: Each Contractor or subcontractor shall remove and dispose of all tools, equipment, surplus material and rubbish pertaining to his work, and cooperate in final cleaning by general contractor.
- B. Final Cleaning: Thoroughly clean the entire project upon completion of the work, including but not necessarily limited to: Power sweeping the parking lot, cleaning construction debris from adjacent exterior areas, polishing all metals, cleaning all plumbing fixtures and accessories, cleaning all stainless steel fixtures and equipment, removing all labels and layout marks, cleaning all windows and mirrors, cleaning all floors, and in general, removing all evidence of the construction process, to leave the entire premises in clean, new operating condition.
- C. Equipment and Systems: The attention of the Contractor is directed to the fact that scale, metal shaving, oil, pipe dope and every impurity will tend to accumulate at restricted points and impede flow. Every precaution shall therefore be observed in the assembly of the systems to remove and exclude foreign matter and upon completion of erection, a thorough cleaning program shall be observed. The cleaning operation shall be accomplished after all parts of the systems are in place but before any are insulated or furred in. Remove all labels, dirt, paint, grease and stains from all exposed devises, equipment and fixtures installed under this contract. Clean and polish all equipment upon completion of the work to present a first class job suitable for occupancy.

1.3 AFFIDAVITS
- A. Provide "Full Waiver Final Lien Release" form, "Affidavit of Completion and Warranty" as required in the contract.

1.4 OPERATING AND MAINTENANCE DATA:
- A. Complete mechanical equipment operating manuals and instructions, specification data, diagrams and charts as specified in Division 15. Include the name, address and 24 hour telephone number of service representatives for the plumbing, HVAC, and electrical systems. Include diagrams and wiring diagrams of contractor-furnished equipment. Provide this information to the on site Operator and CFA Facilities.

1.5 SYSTEMS DEMONSTRATIONS
- A. Each separate system with its various components shall be operated by this contractor or his subcontractors for a responsible length of time to demonstrate the performance of all equipment and piping in accordance with the true intent and purpose of the plans and specifications. All necessary adjustments shall be made to the satisfaction of the Owner.

1.6 GUARANTEES AND WARRANTIES
- A. Certain certificates of warranties and guarantees shall be required. These guarantees and warranties, along with duly executed instruments properly assigning said guarantees and warranties shall be forwarded to the Owner, bound in a single volume, grouped by trade and properly indexed. These items shall be forwarded prior to Request for Final Payment. Contractor is directed to examine all technical sections of the specifications for the required documents. The following list is included for the Contractor's convenience and does not necessarily include all required documents:
  1. General contractor's written guarantee stating that the work in its entirety is guaranteed for a period of one year from the date of substantial completion against all defects in materials and workmanship.
  2. Roofing installer's written guarantee to the Contractor stating that all work performed under said subcontract is guaranteed for a period of one (1) years against all defects in materials and workmanship. In the event the work is performed by the general contractor's own forces, this guarantee shall be from the general contractor to the Owner.
  3. Written termite guarantee stating that soil poisoning treatment is guaranteed for a period of five (5) years, and that said treatment is renewable on a year to year basis by contract with the Owner.
  4. Manufacturer's warranties on new air conditioning units and any other manufacturer's equipment warranties, all duly transferred to the Owner.
  5. All certificates such as Ansul systems, fire protection, certificates of occupancy, etc.

1.7 OPENING DAY CONTRACTOR PERSONNEL
- A. Owner shall notify Contractor in writing of his scheduled "Opening Day" for business. Contractor shall arrange for his job superintendent to be present at the site to assist the Owner from 9:00 a.m. thru 2:00 p.m. on that day. In addition, Contractor shall arrange for his mechanical (HVAC), plumbing and electrical subcontractor's job superintendents to be on call to the project during those same hours.

PART II - PRODUCTS

Not Used

PART III - EXECUTION

Not Used

END OF SECTION C01700

SECTION - C01720: PROJECT RECORD DOCUMENTS

PART I - GENERAL

1.1 DESCRIPTION
- A. Related Drawings, Product Data and Samples

1.2 MAINTENANCE OF DOCUMENTS
- A. Maintain one copy of:
  1. Contract Drawings - As Builts
  2. Specifications
  3. Addenda
  4. Approved Shop Drawings
  5. Supplemental Instructions
  6. Change Orders
  7. Other Modifications of Contract
  8. Field Test Records
  9. Correspondence File
- B. Store documents in approved locations, apart from documents used for construction.
- C. Maintain documents in clean, dry, legible condition.
- D. Do not use record documents for construction purposes.
- E. Make documents available at all times for inspection by Architect/Engineer and Owner.

1.3 MARKING DEVICES
- A. Provide felt marking pen for marking. Make notations in "red."

1.4 RECORDING
- A. Label each document "PROJECT RECORD" in 2 inch high printed letters.
- B. Keep record documents current.
- C. Do not permanently conceal any work until required information has been recorded.
- D. Contract Drawings. Legibly mark to record actual construction:
  1. Factory and field seams in membrane, dimensionally located.
  2. Field changes of dimension and detail.
  3. Changes made by Supplemental Instruction or Change Order.
  4. Details not on original Contract Drawings.
- E. Project Manual and Addenda. Legibly mark-up each section to record:
  1. Manufacturer, trade name, catalog number and supplier of each product and item of equipment actually installed.
  2. Changes made by Supplemental Instruction of Change Order.
  3. Other matters not originally specified
- F. Project Submittals: Maintain as record documents. Legibly mark-up approved shop drawings to show changes made after review.

1.5 SUBMITTAL
- A. At completion of project, deliver record documents to Owner.
- B. Accompany submittal with transmittal letter, in duplicate containing:
  1. Date
  2. Project title and number.
  3. Contractor's name and address.
  4. Title and number of each record document.
  5. Certification that each document as submitted is complete and accurate.
  6. Signature of Contractor, or his authorized representative.
  7. G.C. to provide PVC tube and set of record drawings.

PART II - PRODUCTS

Not Used

PART III - EXECUTION

Not Used

END OF SECTION C01720

DIVISION 02 - EXISTING CONDITIONS

SECTION - C02000: SITE WORK

See Civil drawings for Sitework Specifications.

C02200 DEMOLITION
C02205 UTILITIES - RELOCATE
C02300 CLEARING, EXCAVATION & GRADING
C02500 SITE UTILITIES
C02600 STORM DRAINAGE
C02700 PAVEMENT SURFACES
C02850 MISCELLANEOUS SITE IMPROVEMENT

END OF SECTION C02000

SECTION - C02300: SUBSURFACE INVESTIGATION

PART I - GENERAL

1.1 GENERAL
- A. Geotechnical Investigation (Sub-surface Soils Tests) for the project site has been performed and a report of that investigation has been completed. A copy of the investigation report is part of the required download documents given to the General Contractor.

1.2 SUBSURFACE INFORMATION
- A. Log of borings indicates materials penetrated at specific locations. Owner and/or Architect assume no responsibility for any conclusions or interpretations made by Contractor related to information included in the Report. Should Contractor require additional information concerning sub-surface conditions, he may without cost to Owner, make additional investigations. Should additional investigations produce information different from that in Soil Report, notify Owner in writing.

1.3 REQUIREMENT
- A. Contractor read and otherwise become completely familiar with contents of Soil Report, including but not limited to its recommendations for preparation of subsoil, bases, sub-bases and fill and construction of building foundations, parking and paving. Provide building foundations in compliance with recommendations in Report. Should discrepancy be found between the requirements of Soil Report and the drawings and/or specifications, notify Architect in writing prior to beginning Work.
- B. Structural Engineer to state applicable data for final design from the soil report. Reference drawings for details.

PART II PRODUCTS

Not used

PART III EXECUTION

Not used

END OF SECTION C02300

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

STEPHEN L. COOPER
ARCHITECT

750 OLD HICKORY BLVD. SUITE 250
BRENTWOOD, TN 37027
PHONE: 615.377.3111
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CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT

CONSULTANT PROJECT # 04591
PRINTED FOR PERMIT
DATE 1/26/22
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SHEET SPECIFICATIONS

SHEET NUMBER **A-902**

PERMIT

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SECTION - C02361: TERMITE CONTROL

PART I - GENERAL

1.1 SUMMARY
A. All products and services shall be provided by the Owner's National Account Vendor, refer to National Accounts List.
B. This Section includes the following:
1. Soil treatment with termiticide.
2. Wood treatment with borate.
3. Metal mesh barrier system.

1.2 RELATED SECTIONS
A. Rough Carpentry: SECTION C06100
B. Flexible and Sheet Metal Flashing: SECTION C07600

1.3 SUBMITTALS
A. Product Data: For each type of product indicated. Include the EPA-Registered Label.
B. Product certificates.
C. Soil Treatment Application Report: Include the following:
1. Date and time of application.
2. Moisture content of soil before application.
3. Brand name and manufacturer of termiticide.
4. Quantity of undiluted termiticide used.
5. Dilutions, methods, volumes, and rates of application used.
6. Areas of application.
7. Water source for application.
D. Wood Treatment Application Report: Include the following:
1. Date and time of application.
2. Brand name and manufacturer of borate.
3. Quantity of undiluted borate used.
4. Dilutions, methods, volumes and rates of application used.
5. Areas of application
6. Schedule of inspections for one-year from date of Substantial Completion.

1.4 QUALITY ASSURANCE
A. Installer Qualifications: A specialist who is licensed according to regulations of authorities having jurisdiction to apply termite control treatment and products in jurisdiction where Project is located.
B. Regulatory Requirements: Formulate and apply termiticide according to the EPA-Registered Label.

1.5 WARRANTY
A. Special Warranty: Manufacturer's standard form, signed by Applicator and Contractor certifying that termite control work, consisting of applied soil termiticide treatment, will prevent infestation of subterranean termites. If subterranean termite activity or damage is discovered during warranty period, re-treat soil and repair or replace damage caused by termite infestation.
1. Warranty Period: Five years from date of Substantial Completion.

1.6 MAINTENANCE SERVICE
A. Continuing Service: Beginning at Substantial Completion, provide 12 months' continuing service including monitoring, inspection, and re-treatment for occurrences of termite activity. Provide a standard continuing service agreement. State services, obligations, conditions, and terms for agreement period; and terms for future renewal options.

PART II - PRODUCTS

2.1 TERMITE CONTROL COMPANIES
A. See National Account Schedule

2.2 COMPONENTS
A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Termiticides:
a. Aventis Environmental Science USA LP; Termidor
2. Bayer Corporation; Premise 75
3. Dow AgroSciences LLC; Dursban TC, Equity
b. FMC Corporation, Agricultural Products Group; Talstar, Prevail FT, Torpedo
4. Syngenta; Demon TC
5. Borates:
a. Nisus Corp.; Bora-Care, Jecta.
b. NovaGuard Technologies, Inc.; Armor-Guard, Shell-Guard.
c. U.S. Borax Inc.; Tim-Bor.
6. Metal Mesh Barrier System:
a. TERMI-MESH, Inc.; TERMI-MESH

2.3 SOIL TREATMENT
A. Termiticide: Provide an EPA-registered termiticide complying with requirements of authorities having jurisdiction, in an aqueous solution formulated to prevent termite infestation. Provide quantity required for application at the label volume and rate for the maximum termiticide concentration allowed for each specific use, according to product's EPA-Registered Label.

2.4 WOOD TREATMENT
A. Borate: Provide an EPA-registered borate complying with requirements of authorities having jurisdiction, in an aqueous solution for spray application and a gel solution for pressure injection, formulated to prevent termite infestation in wood. Provide quantity required for application at the label volume and rate for the maximum diffusible borate concentration allowed for each specific use, according to product's EPA-Registered Label.

2.5 METAL MESH BARRIER SYSTEM
A. Product: Subject to compliance with requirements, provide "TERMI-MESH" by TERMI-MESH, Inc.
B. Stainless-Steel Mesh: 0.025-by-0.018-inch (0.64-by-0.45-mm) mesh of 0.08-inch-(2.0-mm-) diameter, stainless-steel wire, Type 316.

PART III - EXECUTION

3.1 PREPARATION
A. General: Remove all extraneous sources of wood cellulose and other edible materials such as wood debris, tree stumps and roots, stakes, formwork, and construction waste wood from soil within and around foundations.
B. Soil Treatment Preparation: Loosen, rake, and level soil to be treated except previously compacted areas under slabs and footings. Termiticides may be applied before placing compacted fill under slabs if recommended in writing by termiticide manufacturer.

3.2 APPLYING SOIL TREATMENT
A. Application: Mix soil treatment termiticide solution to a uniform consistency. Provide quantity required for application at the label volume and rate for the maximum specified concentration of termiticide, according to manufacturer's EPA-Registered Label, to the following so that a continuous horizontal and vertical termiticidal barrier or treated zone is established around and under building construction. Distribute treatment evenly.
1. Slabs-on-Grade and Basement Slabs: Under ground-supported slab construction, including footings, building slabs, and attached slabs as an overall treatment. Treat soil materials before concrete footings and slabs are placed.
2. Foundations: Adjacent soil including soil along the entire inside perimeter of foundation walls, along both sides of interior partition walls, around plumbing pipes and electric conduit penetrating the slab, and around interior column footers, piers, and chimney bases; also along the entire outside perimeter, from grade to bottom of footing. Avoid soil washout around footings.
3. Masonry: Treat voids.
4. Penetrations: At expansion joints, control joints, and areas where slabs will be penetrated.
B. Avoid disturbance of treated soil after application. Keep off treated areas until completely dry.
C. Protect termiticide solution, dispersed in treated soils and fills, from being diluted until ground-supported slabs are installed. Use waterproof barrier according to EPA-Registered Label instructions.
D. Post warning signs in areas of application.
E. Reapply soil treatment solution to areas disturbed by subsequent excavation, grading, landscaping, or other construction activities following application.

3.3 APPLYING BORATE TREATMENT
A. Application: Mix wood treatment borate solution to a uniform consistency. Provide quantity required for application at the label volume and rate for the maximum specified concentration of borate, according to manufacturer's EPA-Registered Label, so that wood framing, sheathing, siding, and structural members subject to infestation receive treatment.
1. Framing : Apply borate solution by spray to bare wood for complete coverage.

3.4 INSTALLING METAL MESH BARRIER SYSTEM
A. Metal Mesh Barrier; Place metal mesh barrier where indicated to provide a continuous barrier to entry of subterranean termites.
1. Fit mesh tightly around pipe or other penetrations, and terminate at slab and foundation perimeters.
2. Install mesh under the perimeter of concrete slab edges and joints after vapor barrier and reinforcing steel are in place, and comply with manufacturer's written installation methods.

END OF SECTION C02361

SECTION - C02831: CHAIN LINK FENCES AND GATES (SECURITY)

PART I - GENERAL

1.1 SUMMARY
A. Provide a 6-foot high chain link fence as may be required by the municipality or required for security reasons.

PART II - PRODUCTS

2.1 BASIC MATERIALS
A. Framework: Schedule 40 steel pipe, standard weight, one piece without joints; ASTM A120.
1. Line Posts: 1.9 inch diameter, length required for 8 feet height.
2. Corner and Terminal Posts: 2.38 inch diameter (min.); size to be determined by use and engineering design. Length as for line posts.
3. Gate Posts: 3.5 inch diameter (min.) for gates 5 feet wide and less and 6.0 inch diameter (min) for gates 5 feet wide and over; size to be determined by use and engineering design. Length as for line posts.
4. Top, Bottom and Brace Rails: 1.66 inch diameter, plain end, sleeve coupled.
5. Gates: 1.66 inch diameter (min.) for gates 5 feet wide and less, and 3 inch diameter (min) for gates 5 feet wide and over, for fittings and truss rod fabrication; size to be determined by engineering design.
B. Fabric: Three inch 9-gauge diamond mesh steel wire, interwoven, top selvage twisted tight, bottom selvage knuckle end closed. Zinc coated; FS RR-F-191 Type I.
C. Fittings: Steel; sleeves, bands, clips, rail ends, tension bars, fasteners and fittings.
D. Concrete: Portland Cement; 2500 psi at 28 days; 3 inch slump; ASTM C94.
E. Caps: Cast steel or malleable iron; sized to post dimension, set screw retained.

PART III - EXECUTION

3.1 INSTALLATION
A. General: Install framework, fabric, accessories and gates in accord with ANSI/ASTM F567 and accepted shop drawings.
B. Framework:
1. Posts: Space line posts at intervals of 10 feet (max.). Set terminal, gate and line posts plumb, in concrete footings with top of footing 6 inches below finish grade. Footing depth below finish grade: ANSI/ASTM F567.
2. Braces and Rails: Provide top rail through line post tops and splice with 7-inch long rail sleeves. Brace each gate and corner post back to adjacent line post with horizontal center brace rail and diagonal truss rods. Install brace rail, one bay from end and gate posts. Install center and bottom brace rail on corner and gate leaves.
C. Fabric: Stretch between terminal posts or at intervals of 100 feet, whichever is less. Position bottom 2 inches above finished grade. Fasten to top rail, line posts, braces, and bottom tension wire with wire ties 15 inches o.c. max. Attach to end, corner, and gate posts with tension bars and tension bar clips. Install continuous bottom rail between terminal posts.
D. Accessories: Install caps and roof fabric support arms and attach fabric; tension and secure. Install slats in service yard gates only.
E. Gates: Install in accord with manufacturer's instructions, including: hardware and concrete work required for locking devices for center of double gate openings.

END OF SECTION C02831

SECTION - C02920: LANDSCAPING

PART I - GENERAL
LANDSCAPING BY OWNER
1.1 SCOPE OF WORK
A. Landscape work, including the furnishing and installation of the irrigation (sprinkler) system, seeding, sodding, and the planting of trees, shrubs and vines.
B. General Contractor shall furnish and install at applicable depth, 6 inch diameter, schedule 40 PVC sleeves as required to provide access to all site planting areas to receive irrigation system and/or controls. Mark site for exact locations.
C. Top soil: Coordinate with landscaper for distribution or 6 inches of top soil.
D. Recommendation: Include a regional materials preference that calls out a preference for landscaping sourced within 500 miles of the project site and include a reference to the Landscape Standard.

1.2 NOTE
A. Landscape contractor shall be responsible for cleaning the sidewalks and parking lot areas of dirt and debris specifically caused by their portion of this work.
B. General Contractor shall coordinate installation of landscaping with owner's schedule.

PART II - PRODUCTS
Not Used

PART III - EXECUTION
Refer to landscape drawings for landscaping specifications

END OF SECTION C02920

DIVISION 03 - CONCRETE

SECTION - C03000: FOOTING / SLAB ON GRADE
Refer to structural drawings for section C03000.

DIVISION 04 -MASONRY

SECTION - C04810: UNIT MASONRY ASSEMBLIES

PART I - GENERAL

1.1 SUMMARY
A. This Section includes unit masonry assemblies consisting of the following:
1. Concrete masonry units (CMUs).
2. Face brick.

1.2 SUBMITTALS
A. Product Data: For each type of product indicated.
B. Mix Designs: For each type of mortar and grout. Include description of type and proportions of ingredients.

1.3 RELATED WORK
A. Structural Steel and Miscellaneous Steel: C05000 (See Structural Drawings)
B. Flexible and Sheet Metal Flashings: C07600

1.4 PROJECT CONDITIONS
A. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen substrates. Remove and replace unit masonry damaged by frost or by freezing conditions. Comply with cold-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602.
B. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602.

PART II - PRODUCTS

2.1 FACE BRICK - C04060
A. Manufactures:
1. See National Account and Exterior Finish schedules
B. Colors, Textures and Patterns:
1. Exposed Masonry Units: As selected from manufacturer's full range.
C. General: Provide shapes indicated and as follows
1. For ends of sills and caps and for similar applications that would otherwise expose unfinished brick surfaces, provide units without cores or frogs and with exposed surfaces finished.
2. Provide special shapes for applications where shapes produced by sawing would result in sawed surfaces being exposed to view.
D. Face Brick: ASTM C 216, Grade SW, Type FBS
1. Unit Compressive Strength: Provide units with minimum average net-area compressive strength of 3000 psi (20.7 MPa).
2. Initial Rate of Absorption: Less than 30 g/30 sq. in. (30 g/194 sq. cm) per minute when tested per ASTM C 67.
3. Efflorescence: Provide brick that has been tested according to ASTM C 67 and is rated "not efflouresced."
4. Size: Modular 2-5/8-inches x 3-5/8-inches x 7-5/8-inches

2.2 CONCRETE MASONRY UNITS (CMUs) - C04220
A. Shapes: Provide special shapes for lintels, corners, jambs, sashes, movement joints, headers, bonding, and other special conditions.
B. Integral Water Repellent: Provide units made with liquid polymeric, integral water-repellent admixture that does not reduce flexural bond strength for exposed units. Required for split-face CMU.
1. Available Products:
a. Addiment Incorporated; Block Plus W-10.
b. Grace Construction Products, a unit of W. R. Grace & Co. - Conn.; Dry-Block.
c. Master Builders, Inc.; Rheopel.
C. Split Face CMU: Split-faced block pre-sealed with a silicone based coating.

2.3 MORTAR AND GROUT MATERIALS
A. General: Do not use admixtures, unless otherwise indicated.
1. Do not use calcium chloride in mortar or grout.
2. Limit cementitious materials in mortar for exterior and reinforced masonry to Portland cement and lime.
B. Portland Cement: ASTM C 150, Manufacturer: Holcim - Type I or II, except Type III may be used for cold-weather construction. Refer to finish schedule for color.
1. Alternate Manufacturer: Brixment
C. Hydrated Lime: ASTM C 207, Type N.
D. Aggregate for Mortar: ASTM C 144.
1. Colored-Mortar Aggregates: Natural sand or crushed stone of color necessary to produce required mortar color.
E. Aggregate for Grout: ASTM C 404.
F. Cold-Weather Admixture: Nonchloride, noncorrosive, accelerating admixture complying with ASTM C 494/C 494M, Type C, and recommended by manufacturer for use in masonry mortar of composition indicated.
1. Add cold-weather admixture (if used) at same rate for all mortar that will be exposed to view, regardless of weather conditions, to ensure that mortar color is consistent.
G. Water: Potable.
H. Mortar for Unit Masonry: Comply with ASTM C 270, Proportion Specification.
I. Mortar for Unit Masonry: Comply with ASTM C 270, Property Specification.
1. For masonry below grade or in contact with earth, use Type M or S.
2. For reinforced masonry, use Type S.
3. For mortar parge coats, use Type S.
4. Any regions where type S is required by code (Seismic Design Categories D, E, F). Refer to Structural Drawings for Seismic Design Category information.
5. For exterior, above-grade, load-bearing and non-load-bearing walls and parapet walls; for interior load-bearing walls; for interior non-load-bearing partitions; and for other applications where another type is not indicated, use Type N.
6. Alternates allowed when cost prohibitive, and when approved by Construction Manager
J. Grout for Unit Masonry: Comply with ASTM C 476.
1. Use grout of type indicated or, if not otherwise indicated, of type (fine or coarse) that will comply with Table 1.15.1 in ACI 530.1/ASCE 6/TMS 602 for dimensions of grout spaces and pour height.
2. Provide grout with a slump of 8 to 11 inches (200 to 280 mm) as measured according to ASTM C 143/C 143M.

2.4 REINFORCEMENT
A. Uncoated Steel Reinforcing Bars: ASTM A 615/A 615M or ASTM A 996/A 996M, Grade 60 (Grade 420).
B. Masonry Joint Reinforcement: ASTM A 951; mill galvanized, carbon-steel wire for interior walls and hot-dip galvanized, carbon-steel wire for exterior walls.
1. Wire Size for Side Rods: W1.7 or 0.150-inch diameter.
2. Wire Size for Cross Rods: W1.7 or 0.150-inch diameter.
3. Wire Size for Veneer Ties: W1.7 or 0.150-inch diameter.
4. Spacing of Cross Rods, Tabs, and Cross Ties: Not more than 16 inches (407 mm) o.c.
5. Single-Wythe Masonry: Either ladder or truss type with single pair of side rods.

2.5 TIES AND ANCHORS
A. Materials:
1. Hot-Dip Galvanized, Carbon-Steel Wire: ASTM A 82; with ASTM A 153/A 153M, Class B-2 coating.
2. Steel Sheet, Galvanized after Fabrication: ASTM A 1008/A 1008M, Commercial Steel, hot-dip galvanized after fabrication to comply with ASTM A 153/A 153M.
3. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M, primed.
B. Corrugated Wall Ties: Provide anchors that are a minimum 22 gauge x7/8-inch wide with a corrugation wave length of between 0.3 to 0.5 inches and an amplitude of 0.06 to 0.1 inches. Installed with screws or ring-shanked nails. The fastener shall be located no more than 1/2-inch from the 90-degree bend in the anchor.
C. Wire Ties: Unless otherwise indicated, size wire ties to extend at least halfway through veneer but with at least 5/8-inch (16-mm) cover on outside face. Outer ends of wires are bent 90 degrees and extend 2 inches (50 mm) parallel to face of veneer.
D. Individual Wire Ties: Rectangular units with closed ends and not less than 4 inches (100 mm) wide. Fabricate from 1/4-inch- (6.4-mm) diameter, hot-dip galvanized steel wire.
E. Partition Top Anchors: 0.097-inch- (2.5-mm) thick metal plate with 3/8-inch-(10-mm-) diameter metal rod 6 inches (150 mm) long welded to plate and with closed-end plastic tube fitted over rod that allows rod to move in and out of tube. Fabricate from steel.
F. Rigid Anchors: Fabricate from steel bars 1-1/2 inches (38 mm) wide by 1/4 inch (6.4 mm) thick by 24 inches (600 mm) long, with ends turned up 2 inches (50 mm) or with cross pins.
G. Adjustable Masonry-Veneer Anchors
1. General: Provide anchors that allow vertical adjustment but resist tension and compression forces perpendicular to plane of wall, for attachment over sheathing to wood or metal studs, and as follows:
a. Structural Performance Characteristics: Capable of withstanding a 100-lbf (445-N) load in both tension and compression without deforming or developing play in excess of 0.05 inch (1.3 mm).
2. Screw-Attached, Masonry-Veneer Anchors: Units consisting of a wire tie and a metal anchor section.
a. Wire Ties: Triangular-, rectangular-, or T-shaped wire ties fabricated from 0.25-inch (6.4-mm) diameter steel wire.
3. Seismic Masonry-Veneer Anchors: Units consisting of a metal anchor section and a connector section designed to engage a continuous wire embedded in the veneer mortar joint.
a. Anchor Section: Rib-stiffened, sheet metal plate with screw holes top and bottom, and slotted holes for inserting connector section.
b. Connector Section: Rib-stiffened, sheet metal bent plate; sheet metal clip; or wire tie and rigid extruded vinyl clip designed to engage continuous wire. Size connector to extend at least halfway through veneer but with at least 5/8-inch (16-mm) cover on outside face.
c. Fabricate sheet metal anchor sections and other sheet metal parts from 0.097-inch- (2.5-mm-) thick, steel sheet.
d. Fabricate wire connector sections from 0.25-inch- (6.4-mm) diameter, carbon-steel wire.

2.6 EMBEDDED FLASHING MATERIALS
A. Metal Flashing: Provide metal flashing, where flashing is exposed or partly exposed and where indicated, complying with Division 7 Section "Sheet Metal Flashing and Trim."
1. Metal Drip Edges: Fabricate from stainless steel. Extend at least 3 inches (75 mm) into wall and 1/2 inch (13 mm) out from wall, with outer edge bent down 30 degrees and hemmed.
2. Metal Flashing Terminations: Fabricate from stainless steel. Extend at least 3 inches (75 mm) into wall and out to exterior face of wall. At exterior face of wall, bend metal back on itself for 3/4 inch (19 mm) and down into joint 3/8 inch (10 mm) to form a stop for retaining sealant backer rod.
3. Metal Expansion-Joint Strips: Fabricate from stainless steel to shapes indicated.

2.7 MISCELLANEOUS MASONRY ACCESSORIES
A. Compressible Filler: Premolded filler strips complying with ASTM D 1056, Grade 2A1; compressible up to 35 percent; formulated from neoprene or PVC.
B. Preformed Control-Joint Gaskets: Made from styrene-butadiene-rubber compound, complying with ASTM D 2000, Designation M2AA-805 and designed to fit standard sash block and to maintain lateral stability in masonry wall.
C. Bond-Breaker Strips: Asphalt-saturated, organic roofing felt complying with ASTM D 226, Type I (No. 15 asphalt felt).
D. Weep/Vent Products: Use the following, unless otherwise indicated:
1. Wicking Material: Absorbent rope made from cotton or UV resistant synthetic fiber, 1/4-inch to 3/8-inch (6 mm to 10 mm) in diameter, in length required to provide 2 inch (50 mm) exposure on exterior and 18-inches (450 mm) in cavity between wythes. Use only for weeps.
E. Cavity Drainage System: As manufactured by Mortar Net.

2.8 MASONRY CLEANERS
A. Proprietary Acidic Cleaner: Manufacturer's standard-strength cleaner designed for removing mortar/grout stains from new masonry without damaging masonry. Use product approved for intended use by cleaner manufacturer and manufacturer of masonry units being cleaned.

PART III - EXECUTION

3.1 INSTALLATION, GENERAL
A. Use full-size units without cutting if possible. If cutting is required, cut units with motor-driven saws; provide clean, sharp, unchipped edges. Allow units to dry before laying unless wetting of units is specified. Install cut units with cut surfaces and, where possible, cut edges concealed.
B. Select and arrange units for exposed unit masonry to produce a uniform blend of colors and textures.
C. Comply with tolerances in ACI 530.1/ASCE 6/TMS 602 and with the following:
1. For conspicuous vertical lines, such as external corners, door jambs, reveals, and expansion and control joints, do not vary from plumb by more than 1/8 inch in 10 feet (3 mm in 3 m), 1/4 inch in 20 feet (6 mm in 6 m), or 1/2 inch (12 mm) maximum.
2. For conspicuous horizontal lines, such as lintels, sills, parapets, and reveals, do not vary from level by more than 1/8 inch in 10 feet (3 mm in 3 m), 1/4 inch in 20 feet (6 mm in 6 m), or 1/2 inch (12 mm) maximum.

3.2 LAYING MASONRY WALLS
A. Lay out walls in advance for accurate spacing of surface bond patterns with uniform joint thicknesses and for accurate location of openings, movement-type joints, returns, and offsets. Avoid using less-than-half-size units, particularly at corners, jambs, and, where possible, at other locations.
B. Bond Pattern for Exposed Masonry: Unless otherwise indicated, lay exposed masonry in running bond; do not use units with less than nominal 4-inch (100-mm) horizontal face dimensions at corners or jambs.
C. Built-in Work: As construction progresses, build in items specified in this and other Sections. Fill in solidly with masonry around built-in items.
D. Fill space between steel frames and masonry solidly with mortar, unless otherwise indicated.
E. Fill cores in hollow concrete masonry units with grout 24 inches (600 mm) under bearing plates, beams, lintels, posts, and similar items, unless otherwise indicated.

3.3 MASONRY JOINT REINFORCEMENT
A. General: Install in mortar with a minimum cover of 5/8 inch (16 mm) on exterior side of walls, 1/2 inch (13 mm) elsewhere. Lap reinforcement a minimum of 6 inches (150 mm).
B. Interrupt joint reinforcement at control and expansion joints, unless otherwise indicated.
C Provide continuity at wall intersections by using prefabricated T-shaped units.
D Provide continuity at corners by using prefabricated L-shaped units.

3.4 ANCHORING SEISMIC MASONRY VENEERS
A. Anchor masonry veneers to wall framing with seismic masonry-veneer anchors to comply with the following requirements:
1. Fasten screw-attached and seismic anchors through sheathing to wall framing with metal fasteners of type indicated. Use two fasteners.
2. Embed tie sections in masonry joints. Provide not less than 2 inches (50 mm) of air space between back of masonry veneer and face of sheathing.
3. Locate anchor sections to allow maximum vertical differential movement of ties up and down.
4 Space anchors as indicated, but not more than 16 inches (406 mm) o.c. vertically and 24 inches (610 mm) o.c. horizontally with not less than 1 anchor for each 2.67 sq. ft. (0.25 sq. m) of wall area. Install additional anchors within 12 inches (305 mm) of openings and at intervals, not exceeding 36 inches (914 mm), around perimeter.

3.5 FLASHING, WEEP HOLES, CAVITY DRAINAGE, AND VENTS
A. General: Install embedded flashing and weep holes in masonry at shelf angles, lintels, ledges, other obstructions to downward flow of water in wall, and where indicated. Install vents at shelf angles, ledges, and other obstructions to upward flow of air in cavities, and where indicated.
B. Install flashing as follows, unless otherwise indicated:
1. Prepare masonry surfaces so they are smooth and free from projections that could puncture flashing. Where flashing is within mortar joint, place through-wall flashing on sloping bed of mortar and cover with mortar. Before covering with mortar, seal penetrations in flashing as recommended by flashing manufacturer.
2. At lintels and shelf angles, extend flashing a minimum of 6 inches (150 mm) into masonry at each end. At heads and sills, extend flashing 6 inches (150 mm) at ends and turn up not less than 2 inches (50 mm) to form end dams.
3. Install metal drip edges beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch (13 mm) back from outside face of wall and adhere flexible flashing to top of metal drip edge.
4. Install metal flashing termination beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch (13 mm) back from outside face of wall and adhere flexible flashing to top of metal flashing termination.
C Install weep holes in head joints in exterior wythes of first course of masonry immediately above embedded flashing and as follows:
1. Use specified weep/vent products to form weep holes.
2. Space weep holes 24 inches (600 mm) o.c., unless otherwise indicated.
3. Cover cavity side of weep holes with plastic insect screening at cavities insulated with loose-fill insulation.
D Place cavity drainage material in cavities to comply with configuration requirements for cavity drainage material in Part 2 "Miscellaneous Masonry Accessories" Article.
E. Install vents in head joints in exterior wythes at spacing indicated. Use specified weep/vent products to form vents.
1. Close cavities off vertically and horizontally with blocking in manner indicated. Install through-wall flashing and weep holes above horizontal blocking.

3.6 REINFORCED UNIT MASONRY INSTALLATION
A. Temporary Formwork and Shores: Construct formwork and shores as needed to support reinforced masonry elements during construction.
1. Construct formwork to provide shape, line, and dimensions of completed masonry as indicated. Make forms sufficiently tight to prevent leakage of mortar and grout. Brace, tie, and support forms to maintain position and shape during construction and curing of reinforced masonry.
2 Do not remove forms and shores until reinforced masonry members have hardened sufficiently to carry their own weight and other temporary loads that may be placed on them during construction.

3.7 FIELD QUALITY CONTROL
A. Inspectors: Owner will engage qualified independent inspectors to perform inspections and prepare reports. Allow inspectors access to scaffolding and work areas, as needed to perform inspections.
1. Place grout only after inspectors have verified compliance of grout spaces and grades, sizes, and locations of reinforcement.
B. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to perform field tests and inspections indicated below and prepare test reports:
C Mortar Test (Property Specification): For each mix provided, per ASTM C 780. Test mortar for mortar air content and compressive strength.

3.8 CLEANING
A. In-Progress Cleaning: Clean unit masonry as work progresses by dry brushing to remove mortar fins and smears before tooling joints.
B. Final Cleaning: After mortar is thoroughly set and cured, clean exposed masonry as follows:
1. Test cleaning methods on sample wall panel; leave one-half of panel uncleaned for comparison purposes.
2. Protect adjacent surfaces from contact with cleaner.
3. Wet wall surfaces with water before applying cleaners; remove cleaners promptly by rinsing surfaces thoroughly with clear water.
4. Bucket-and-brush; hand-cleaning method described in BIA Technical Notes 20.
5. Clean masonry with a proprietary acidic cleaner applied according to manufacturer's written instructions.
6. Clean concrete masonry by cleaning method indicated in NCMA TEK 8-2A applicable to type of stain on exposed surfaces.

END OF SECTION C04810

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FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT

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SHEET SPECIFICATIONS

SHEET NUMBER A-903

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DIVISION 05 - METALS

SECTION - C05000: STRUCTURAL AND MISCELLANEOUS STEEL
Refer to Structural Drawings

SECTION - C05050 BASIC METAL MATERIALS AND METHODS
PART I - GENERAL
A. Refer to Structural Steel drawings

PART II - PRODUCTS
2.1 STRUCTURAL-STEEL MATERIALS
A. Recycled Content of Steel Products: Show preference to products with an average recycled content of steel products so post-consumer recycled content plus one-half of pre-consumer recycled content is not less than 50 percent. Under the condition that there is not a significant increase in price between the products.

2.2 STAINLESS STEEL PANELS
A. Stainless Steel Backsplash at Kitchen Sinks; 18 Gauge, Grade 430 Stainless Steel sheet with No. 4 finish.
1. Install with construction adhesive as shown and at locations shown on Drawings.
2. Minimize joints between sheets.
a. Overalp sheets by 1". Overlapping sheet to have hemmed edge with pre-drilled holes at 12" O.C. Fasten in place with stainless steel 1 1/2" #12 Truss head screws
3. Install T-shaped transition strip to overlap FRP at exposed sheet edge
b. When indicated on drawings, install Z-bar flashing to overlap sink and FRP at bottom edge of panel
c. Provide silicone sealant as specified in Section 07900 at junction of transition strip and flashing at wall

PART III - EXECUTION
B. Refer to Structural Steel drawings

END OF SECTION C05050

SECTION - C05120: STRUCTURAL STEEL
Refer to Structural Drawings

SECTION - C05400: COLD FORMED METAL FRAMING
Refer to Structural Drawings

SECTION - C05514: ALUMINUM LADDERS

PART I - GENERAL

1.1 SECTION INCLUDES
A. Aluminum access ladders.

1.2 RELATED SECTIONS
A. Roof Hatches: SECTION C07720

1.3 REFERENCES
A. AA - Aluminum Association.
B. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
C. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
D. OSHA 1910.27 - Fixed Ladders.

1.4 QUALITY ASSURANCE
A. Product Qualification: Product design shall comply with OSHA 1910.27 minimum standards for ladders.

1.5 WARRANTY
A. Manufacturer has responsibility for an extended Corrective Period for work of this Section for a period of 5 years from date of Substantial Completion against all the conditions indicated below, and when notified in writing from Owner, manufacturer shall promptly and without inconvenience and cost to Owner correct said deficiencies. Defects in materials and workmanship

PART II - PRODUCTS

2.1 MANUFACTURERS
A. Acceptable Manufacturer:
1. O'Keeffe's, Inc.., San Francisco, CA 94124
a. 26% recycled content - pre/post not specified.
2. Alaco Ladder Company, Chino, CA 91710
a. 40-85% post-industrial scrap and 5-15% post-consumer scrap.

2.2 APPLICATIONS/SCOPE
A. Fixed Ladder Design
B. Fixed Ladder Bottom Bracket
C. Bottom floor supported bracket
D. Bottom wall supported bracket
E. Bracket as drawn

2.3 FINISHES
A. Extruded Mill Finish

2.4 FABRICATION
A. Rungs: Not less than 1-1/4 inches (32 mm) in section and 18-3/8 inches (467mm) long, formed from tubular aluminum extrusions. Squared and deeply serrated on all sides.
B. Rungs shall withstand a 1,500 pound (454 kg) load without deformation or failure
C. Channel Side Rails: Not less than 1/8 inch (3 mm) wall thickness by 3 inches (76 mm) wide.
D. Heavy Duty Tubular Side Rails: Assembled from two interlocking aluminum extrusions no less than 1/8 inch (3 mm) wall thickness by 3 inches (76 mm) wide. Construction shall be self-locking stainless steel fasteners, full penetration TIG welds and clean, smooth and burr-free surfaces.

PART III - EXECUTION

3.1 EXAMINATION
A. Coordinate anchorages. Furnish setting drawings, templates, and anchorage structural loads for fastener resistance.

3.2 INSTALLATION
A. Install in accordance with manufacturer's instructions and in proper relationship with adjacent construction.

DIVISION 06 - WOOD AND PLASTICS

SECTION C06000 - CARPENTRY
Refer to Structural Drawings
SECTION C06100 - ROUGH CARPENTRY

Refer to Structural Drawings

SECTION - C06170 WOOD TRUSSES:
Refer to structural drawings.

SECTION - C06200: FINISH CARPENTRY

PART I - GENERAL

1.1 SECTION INCLUDES
A. Interior trim, jambs and millwork
B. Interior architectural wall surfacing.
C. Plastic Laminated casework
D. Factory finishing
E. Hardware, typically furnished by the woodworking manufacturer

1.2 RELATED SECTIONS
A. Rough Carpentry: SECTION C06100
B. Solid Non-Porous Sheet and Shape Products: SECTION C06410
C. Millwork, Cabinetry and Countertops: SECTION C12390

1.3 REFERENCES
A. Minimum standards for work within this section shall be in conformity with the MANUAL OF MILLWORK, latest edition, Standards of the Architectural Millwork Industry as adopted by the WOODWORK INSTITUTE.

1.4 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section to Owner for acceptance prior to fabrication.

1.5 QUALITY ASSURANCE
A. Performance shall be in accordance with Custom GRADE of the WOODWORK INSTITUTE - MANUAL OF MILLWORK, latest edition.
1. If provisions for the Grade specified are in conflict with, or modified by the drawings and/or specifications, the modifications shall govern.

1.6 QUALIFICATIONS
A. Contractors and their personnel engaged in the work shall be able to demonstrate successful experience with work of comparable extent, complexity and quality to that shown and specified.
1. Fabricator shall be a member/licensee in good standing of the WOODWORK INSTITUTE.
2. Installer shall be a member/licensee in good standing of the WOODWORKING INSTITUTE.

1.7 DELIVERY, STORAGE and HANDLING
A. Deliver all materials only when the project is ready for installation and the general contractor has provided a clean storage area as defined in the MANUAL OF MILLWORK.

1.8 SEQUENCING and SCHEDULING
A. Coordinate all fabrication, delivery and installation work with the general contractor and applicable trades.

PART II - PRODUCTS

2.1 MANUFACTURER
A. The drawings were prepared and portions of this specification written on the basis of using the products of a specific manufacturer. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.

2.2 COMPONENTS
A. Made with binder containing no urea formaldehyde resin.
B. Paneling: Hardwood veneer plywood paneling: Manufacturer's stock hardwood plywood panels complying with HPVA HP-1, made without urea formaldehyde adhesives.
C. Shelving: Do not use particleboard or MDF that contains urea formaldehyde.
D. Moisture Content: Trim lumber; 12% maximum at time of delivery.
E. Grading and Marking:
1. Softwood Lumber: FS MM-L-0075lf
2. Hardwood Lumber: FS MM-L-00736a

2.3 MATERIALS
A. General Use:
1. General: Work solid stock to patterns shown. Standard shape materials shall conform to patterns indicated in current grading rules for the species.
2. Interior Wood Trim:
a. General Use (Paint): Contractor's option: "C" Select Grade, Sugar Pine, Idaho White Pine, Magnolia, Birch, Redwood or Fir.
b. Natural Finish (Stain): Clear, plain sawn, Yellow pine, AWI Grade 1.
3. Interior Finish Plywood: 3/4 inch paint grade, lumber core, Birch plywood
4. Shelving: 3/4 inch AB Grade Fir plywood with "C" Select Grade Maple edge trim.
5. Wood Benches/Tables: Clear, plain sawn, Yellow pine, AWI Grade 1. 9. Nails: FS FF-N-103c and FF-N- 105a. Stainless steel for Redwood.
6. Screws: FS FF-S-11 lb.
7. Lag Screws and Bolts: FS FF-B-561, type and grade best suited for purpose used.
8. Toggle Bolts: FS FF-B-588b.
B. Cabinets
1. Doors, Panels, Ends, Etc.: 3/4-inch 4B Grade, Group 3, Ponderosa pine, exposed edges banded.
2. Stiles, Rails, Etc.: 3/4-inch C Select Grade, White pine.
3. Shelving and Dividers: 3/4-inch 4B Grade, Group 3, Ponderosa pine; exposed edges banded.
4. Backs: 1/4-inch tempered hardboard.
5. Framing, Blocking, Nailers, Etc.: Pine
6. Filler Strips: Match face materials
7. Hardware: Knape and Vogt, Garcy, Stanley, Hafele; to suit functions. Standards of quality:
a. Hinges: Continuous stainless steel piano hinge, concealed, complete with guides and template for installation.
b. Catches: "Hafele" pressure catch No. 245.54.710.
c. Shelf standards and brackets: Noted on the drawings.
d. Locks: Noted on the drawings.
C. Office Cabinets and Counters:
1. Doors, Panels, Ends, Etc.: 3/4-inch AB grade clear White Pine plywood, exposed edges banded.
2. Stiles, Rails, Etc.: 3/4-inch "C" select grade solid clear White Pine.
3. Shelving and Dividers: 3/4-inch AB Grade clear White Pine plywood; exposed edges banded.
4. Backs: 1/4-inch tempered hardboard.
5. Framing, Blocking, Nailers, Etc.: Pine
6. Hinges: Continuous concealed piano hinges, concealed, complete with guides and template for installation.
7. Filler Strips: Match face materials.
8. Hardware: Hager, Knape and Vogt, Stanley; to suit functions.
9. Catches: "Hafele" pressure catch No. 245.54.710.
10. Shelf Standards and Brackets: Noted on drawings
11. Locks: Noted on drawings
D. Laminated Plastic Assemblies:
1. NEMA standard LD-1; Class 1, high pressure decorative laminates: Color shown on the drawings:
a. Surface Sheet: 0.05 inch thick
b. Backing Sheet: 0.02 inch thick phenolic backing sheet.
c. Edging: 0.028 inch thick.
d. Adhesive: Fire resistant; Acceptable to laminate manufacturer.
e. Backing: 3/4-inch AB Group 1, exterior grade, APA fir plywood.
E. STANDING AND RUNNING TRIM
1. Multipurpose Construction Adhesive: Formulation complying with ASTM D 3498 that is recommended for indicated use by adhesive manufacturer.

2.4 FABRICATION
A. Fabricate in shop of millwork subcontractor and assemble in single and complete units to the greatest extent that requirements of delivery and installation in building will permit.

PART III - EXECUTION

3.1 EXAMINATION
A. Verify the adequacy and proper location of any required backing or support framing.
B. Verify that mechanical, electrical, plumbing and other building items (supplied by others) effecting work in this section are in place and ready.

3.2 INSTALLATION
A. Install all work in conformance with MANUAL OF MILLWORK Custom GRADE.
B. All work shall be secured in place, square, plumb and level.
C. All work abutting other components shall be properly scribed.
D. Mechanical fasteners at exposed and semi-exposed surfaces, excluding installation attachment screws and screws used for attaching cabinets end-to-end, shall be countersunk.
E. Equipment cut-outs within countertops indicated on plans shall be cut by installer.
F. Method of attachment, including the type, size, frequency, and/or spacing of anchoring devices and fasteners shall comply to MANUAL OF MILLWORK minimum requirements or be as indicated in the plans or specifications.
G. All installations including attachment of casework and countertops shall be in compliance with MANUAL OF MILLWORK minimum requirements.

3.3 ADJUSTING
A. Before completion of the installation, the installer shall adjust all moving or operating parts to function smoothly and correctly.

3.5 CLEANING
A. Upon completion of installation, the installer shall clean all items installed of pencil or ink marks and broom clean the area of operation, depositing debris in containers provided by the general contractor.

END OF SECTION C06200

SECTION - C06410: SOLID NON-POROUS SHEET AND SHAPE PRODUCTS

PART I - GENERAL

1.1 SECTION INCLUDES
A. Solid Surface as provided by Clayton Fixture, see National Account Schedule on drawings.
1. Solid surface countertops
2. Solid surface sinks
3. Solid surface millwork and window sills
4. Adhesives and sealants

1.2 RELATED SECTIONS
A. Rough Carpentry: SECTION C06110
B. Finish Carpentry: SECTION C06200
C. Sealants and Caulking: SECTION C07920
D. Millwork, Cabinetry and Countertops: SECTION C12390
E. Plumbing: DIVISION 15

1.3 SUBMITTALS
A. Submit Shop Drawings per Section - C01300 SUBMITTALS
B. Product Data
1. Submit product data for each specified product. Include manufacturer's technical data sheets and published instructions.
2. Submit Material Data Safety Sheets (MSDS) for adhesives and sealants.
C. Quality Assurance Submittals:
1. Test Reports: Submit certified test reports showing compliance with specified performance characteristics and physical properties, if required.
2. Warranty: Specimen copy of specified warranty.
D. Maintenance Data: Submit manufacturer's published maintenance manual with closeout submittals.

1.4 REGULATORY REQUIREMENTS
A. Accessibility Requirements: Comply with the U.S. Architectural & Transportation Barries Compliance Board ADA-ABA Accessibility Guidelines for Buildings and Facilities.

1.5 QUALITY ASSURANCE
A. Fabricator Qualifications: Minimum of three (3) years documented experience in fabricating solid surfacing countertops similar in scope and complexity to this Project. Currently certified by the manufacturer as an acceptable fabricator.
B. Installer Qualifications: Minimum of three (3) years of documented installation experience for projects similar in scope and complexity to this Project, and currently certified by the manufacturer as an acceptable installer.

1.6 DELIVERY, STORAGE and HANDLING
A. Delivery: Deliver sinks in original containers.
B. Storage and Protection: Store materials protected from exposure to harmful weather conditions, at room temperature and humidity conditions recommended by manufacturer. Store sheet materials flat on pallets or similar rack-type storage to preclude damage.

1.7 PROJECT CONDITIONS
A. Field Measurements: Verify actual measurements and openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.
B. Adhesive: Acclimatize adhesives to occupancy room temperatures with maximum tepeerature not to exceed 75 degrees F.

1.8 WARRANTY
A. Manufacturer's Limited Warranty: Provide manufacturer's standard ten (10) Year Commerical Limited Warranty against defects in solid surface sheet materials.

PART II - PRODUCTS

2.1 MANUFACTURER
A. Basis of Design: Aristech Surfaces LLC - manufacturer of Avonite.

2.2 MATERIALS
A. Composition: Acrylic resins, fire-retardant mineral fillers, and proprietary coloring agents. Through-the-body color for full thickness of sheet material.
B. Sheet Products (vanity countertops): Manufacturer noted on finish schedule in drawings; 1/2 inch thick sheets, continuous length with bull-nose edge with integral back and side splash, and 3/4 inch exterior grade APA Fir plywood backing.
C. Shaped Products: Integral one-piece bowl; manufacturer's standard; if specified in mechanical portions of these specifications.
D. Patterns and Colors: As noted on finish schedule in drawings.

2.3 FABRICATION
A. Fabricate components in shop, to greatest extent practicable, in size and shapes indicated according to approved shop drawings and manufacturer published fabrication requirements.
B. From joint seams between solid surfacing components with specified seam adhisive. Completed joint inconspicuous in appearance and without voids.
C. Provide holes and cutouts indicated on approved shop drawings. Rout cutouts and complete by sanding all edges smooth.

PART III - EXECUTION

3.1 EXAMINATION
A. Examine substrates and conditions that could adversely affect the work of this Section.
B. Substrates must be sound, flat, smooth, and free from dusts or other surface contaminants.
C. Commencement of work will constitute acceptance of substrates and conditions to receive the work.

3.2 COUNTERTOP INSTALLAION
A. Install solid surfacing components plumb, level, and true according to approved shop drawings and manufacturer's published installation instructions. Use woodworking and specialized fabrication tools acceptable to manufacturer.
B. Form joint seams with specified seam adhesive. Seams in locations shown on approved shop drawings and acceptable to manufacturer.
C. Rout sink coutouts to manufacturer's template. Adhere solid surface cast sinks units to countertops with specified construction adhesive.
D. Install backsplashes and endsplashes where indicated on Drawings. Adhere to countertops with specified construction adhesive.

3.3 WINDOW SILL INSTALLATION
A. Install window sills for full length of each window unit, securing to substrates with concealed fasteners and specified adhesive.
B. Provide minimum 1/8-inch expansion gap on both sides of window sills. Fill gap with specified joint sealant.
C. Completed work to be plumb, level and true, with edges eased and sanded smooth.

3.4 REPAIR
A. Minor surface marring for solid surface components may be repaired according to manufacture's published installation instructions.
B. Remove and replace solid surface componets that are damaged and cannot be satisfactorily repaired.

3.5 CLEANING AND PROTECTION
A. Clean solid surface componets accoring to manufacture's published maintenance instructions. Completely remove excess adhesives and sealants from finished surfaces.
B. Protect completed work from damage during remainder of construction period.

END OF SECTION C06410

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BUILDING TYPE / SIZE: P13 LE LRG
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SHEET
SPECIFICATIONS

SHEET NUMBER
A-904

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DIVISION 07 - THERMAL AND MOISTURE PROTECTION

SECTION - C07210: BUILDING INSULATION

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:

1. Perimeter wall insulation (supporting backfill).
2. Concealed building insulation.
3. Vapor retarders.

PART II - PRODUCTS

2.1 FOAM-PLASTIC BOARD INSULATION

A. Extruded-Polystyrene Board Insulation: ASTM C 578, Type IV, 1.60 lb/cu. ft. (26 kg/cu. m), with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively:

1. Available Manufacturers:

a. DiversiFoam Products, Mendota, IL 61342
b. Dow Chemical Company, Midland, MI 48674
c. Owens Corning, Toledo, OH 43659

2.2 GLASS-FIBER BLANKET INSULATION

A. Available Manufacturers:

1. Owens Corning - Eco Touch, Toledo, OH 43659 (preferred)
2. CertainTeed Corporation, Valley Forge, PA 19482
3 Johns Manville, Denver, CO 80202

B. Faced, Glass-Fiber Blanket Insulation: ASTM C 665, Type II, Class C; Category 1 (membrane is a vapor barrier), faced with kraft faced vapor-retarder membrane on one face.

2.3 AIR BARRIER

A. Air Barrier (Building Felt): ASTM D266 one layer of 30 pound (Type II) asphalt saturated roofing felt.

B. Air Barrier (Building Wrap): ASTM E1677 one layer of (Type I) building wrap; flame-spread and smoke-developed indexes of less than 25 and 450, respectively, when tested according to ASTM E84; UV stabilized; and acceptable to authorities having jurisdiction.

C. Air Barrier (Building Wrap Tape): Pressure-sensitive plastic tape recommended by building wrap manufacturer for sealing joints and penetrations in building wrap.

2.4 VAPOR RETARDERS

A. Polyethylene Vapor Retarders: ASTM D 4397, 6 mils (0.15 mm) thick, with maximum permeance rating of 0.13 perm (7.5 ng/Pa x s x sq. m).

B. Vapor-Retarder Tape: Pressure-sensitive tape of type recommended by vapor-retarder manufacturer for sealing joints and penetrations in vapor retarder.

C. Adhesive for Vapor Retarders: Product recommended by vapor-retarder manufacturer and with demonstrated capability to bond vapor retarders securely to substrates indicated.

2.5 AUXILIARY INSULATING MATERIALS

A. Vapor-Retarder Tape: Pressure-sensitive tape of type recommended by insulation manufacturers for sealing joints and penetrations in vapor-retarder facings.

B. Adhesive for Bonding Insulation: Product with demonstrated capability to bond insulation securely to substrates indicated without damaging insulation and substrates.

PART III - EXECUTION

3.1 INSTALLATION, GENERAL

A. Comply with insulation manufacturer's written instructions to products and application indicated.

B. Install insulation that is undamaged, dry, and unsoiled and that has not been left exposed at any time to ice, rain, and snow.

C. Extend insulation in thickness indicated to envelop entire area to be insulated. Cut and fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.

D. Water-Piping Coordination: If water piping is located within insulated exterior walls, coordinate location of piping to ensure that it is placed on warm side of insulation and insulation encapsulates piping.

E. For preformed insulating units, provide sizes to fit applications indicated and selected from manufacturer's standard thicknesses, widths, and lengths. Apply single layer of insulation units to produce thickness indicated unless multiple layers are otherwise shown or required to make up total thickness.

3.2 INSTALLATION OF PERIMETER INSULATION

A. On vertical surfaces, set insulation units in adhesive applied according to manufacturer's written instructions. Use adhesive recommended by insulation manufacturer.

1. If not otherwise indicated, extend insulation a minimum of 24 inches (610 mm) below exterior grade line.

B. Protect below-grade insulation on vertical surfaces from damage during backfilling by applying protection course with joints butted. Set in adhesive according to insulation manufacturer's written instructions.

3.3 INSTALLATION OF GENERAL BUILDING INSULATION

A. Apply insulation units to substrates by method indicated, complying with manufacturer's written instructions. If no specific method is indicated, bond units to substrate with adhesive or use mechanical anchorage to provide permanent placement and support of units.

B. Seal joints between foam-plastic insulation units by applying adhesive, mastic, or sealant to edges of each unit to form a tight seal as units are shoved into place. Fill voids in completed installation with adhesive, mastic, or sealant as recommended by insulation manufacturer.

C. Install mineral-fiber insulation in cavities formed by framing members according to the following requirements:

1. Use insulation widths and lengths that fill the cavities formed by framing members. If more than one length is required to fill cavity, provide lengths that will produce a snug fit between ends.
2. Place insulation in cavities formed by framing members to produce a friction fit between edges of insulation and adjoining framing members.
3. Maintain 3-inch (76-mm) clearance of insulation around recessed lighting fixtures.
4. Install eave ventilation troughs between roof framing members in insulated attic spaces at vented eaves.
5. For wood-framed construction, install mineral-fiber blankets according to ASTM C 1320 and as follows:

a. With faced blankets having stapling flanges, secure insulation by inset, stapling flanges to sides of framing members.

E. Install board insulation on concrete substrates by adhesively attached, spindle-type insulation anchors as follows:

1. Fasten insulation anchors to concrete substrates with insulation anchor adhesive according to anchor manufacturer's written instructions. Space anchors according to insulation manufacturer's written instructions for insulation type, thickness, and application indicated.
2. Apply insulation standoffs to each spindle to create cavity width indicated between concrete substrate and insulation.
3. After adhesive has dried, install board insulation by pressing insulation into position over spindles and securing it tightly in place with insulation-retaining washers, taking care not to compress insulation below indicated thickness.
4. Where insulation will not be covered by other building materials, apply capped washers to tips of spindles.

3.4 INSTALLATION OF AIR BARRIER AND VAPOR RETARDER

A. Air Barrier (Building Felt): Install horizontally; begin by aligning bottom edge with base of wall 24-inches from a corner, print side out. Providing a 6-inch minimum horizontal lap and a 2-inch vertical lap. Work from the bottom up, taping all seams.

B. Air Barrier (Building Wrap): Seal seams, edges, fasteners, and penetrations with tape; Extend into jambs of openings and seal corners with tape; Comply with manufacturer's instructions and recommendations.

C. Vapor Retarders:

1. Batt Insulation: Vapor retarder face shall be installed on the warm side of construction, unless otherwise indicated. Tape joints and ruptures in vapor retarder and seal each continuous area of insulation to surrounding construction to ensure airtight installation.
2. Polyethylene Film: Use a combination of mechanical fasteners and sealant to attach to top plate, bottom plate and stud end. Place film over sealant without tension and press to provide contact. Secure to stud every 24-inches. Overlap edges a minimum 6-iches at vertical and horizontal edges.

a. Extend vapor retarder to extremities of areas to be protected from vapor transmission where batt insulation cannot reach. Secure in place with adhesives or other anchorage system as indicated. Extend vapor retarder to cover miscellaneous voids in insulated substrates, including those filled with loose-fiber insulation.

C. Seal joints caused by pipes, conduits, electrical boxes, and similar items penetrating vapor retarders with vapor-retarder tape to create an airtight seal between penetrating objects and vapor retarder.

D. Repair tears or punctures in vapor retarders immediately before concealment by other work. Cover with vapor-retarder tape or another layer of vapor retarder.

END OF SECTION C07210

SECTION - C07410: ALUMINUM METAL PLATE WALL PANELS

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Aluminum metal plate wall panels

1.02 DEFINITION

A. Metal Plate Wall Panel Assembly: Metal plate wall panels, attachment system components, miscellaneous metal framing, and accessories necessary for a complete weather tight wall system based on AAMA CW-RS-1.

1.03 SUBMITTALS

A. See Section 01300 – Submittals, for submittal procedures.
B. Product Data: Submit for each type of product indicated, include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of metal plate wall panel and accessory.
C. Shop Drawings: Submit fabrication and installation layouts of metal plate wall panels; including details of edge conditions, joints, panel penetrations, anchorages, attachment system, trim, flashings, closures, and accessories; and special details.

1. Provide distinction between factory-assembled, shop-assembled, and field-assembled work.
2. Provide details of following items at full scale.

a. Manufacturer's standard sheet metal trims.
b. Components of wall panel construction, anchorage methods, and hardware.

D. Coordination Drawings: Submit exterior elevations, drawn to scale, that have the following items shown and coordinated with each other, using input from installers of the following items:

1. Metal plate wall panels and attachments.
2. Roof edge flashing, copings, and other roof shelters, louvers, and lighting fixtures.
3. Penetrations of wall by pipes and utilities.

E. Maintenance Data: Submit maintenance data for metal plate wall panels.
F. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.04 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with at least two years of documented experience.
B. Installer: Company specializing in performing work of this section and approved by manufacturer.

1. Install system in strict compliance with manufacturer's installation instructions.

C. Source Limitations: Obtain each type of metal plate wall panel from single source and from single manufacturer.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
B. Storage and Handling: Store materials in clean, dry, interior area in accordance with manufacturer's instructions.
C. Deliver panels, components, and other manufactured items without damage or deformation.
D. Handle and store materials during delivery, storage, handling, and installation from weather, excessive temperatures and construction operations.
E. Handle panels in strict compliance with manufacturer's instructions and recommendations, and in a manner to prevent bending, warping, twisting, and surface damage.

1. Store panels vertically with top of panel down, storage of panels horizontally is not permitted.

F. Store panels covered with suitable weather tight and ventilated covering.
G. Provide storage of panels to ensure dryness, with positive slope for drainage of moisture.
H. Do not store panels in contact with other materials that might cause staining, denting, or other surface damage.
I. Remove strippable protective covering from aluminum panel prior to installation.

1.06 SITE CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of this Work to be performed according to manufacturer's installation instructions and warranty requirements.
B. Field Measurements: Verify locations of structural members and wall opening dimensions by field measurements before panel fabrication and indicate measurements on Shop Drawings.

1. Coordinate with construction schedule.

1.07 WARRANTY

A. See Section 01700 - Closeout Submittals, for additional warranty requirements.
B. Wall System Warranty: Provide wall panel manufacturer warranty, agreeing to correct defects in manufacturing of materials within a one year period after Date of Substantial Completion.

1. Failures include, but are not limited to, the following:

a. Structural failures, including rupturing, cracking, or puncturing.
b. Deterioration: Beyond normal weathering of wall system metals and other materials.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. EN-V – Aluminum Wall Panel System.

1. Address: 12480 Superior Ct., Holland, Michigan 49424.
2. P.O. Box 1299 Holland, Michigan 49423-1299.
3. Phone: (616) 355-2970; Fax: (616) 355-2972; Website: www.en-v.com.

2.02 PERFORMANCE REQUIREMENTS

A. Metal Plate Wall Panel Assemblies: Comply with performance requirements without failure due to defective manufacturing, fabrication, installation, or other construction defects.
B. Design, fabricate, and erect a dry joint, pressure equalized rainscreen aluminum wall panel system without use of sealants, gaskets, or butyl tape, tested as installed in compliance with AAMA 508, and as follows:

1. Cyclic Static Air Pressure Differential: Pass cycled pressure loading at 25 psf in 100 three-second cycles in accordance with ASTM E1233/E1233M.
2. Air Infiltration: Pass when tested at 1.57 psf (25 mph) in accordance with ASTM E283.
3. Water Penetration:

a. Static: Pass water penetration test under 25.0 psf positive static air pressure difference for at least 15 minutes with 5 gallons per sf per hour of water applied in accordance with ASTM E331.
b. Dynamic: Pass water penetration test under 15.0 psf dynamic pressure difference for at least 15 minutes with 5 gallons per sf per hour of water applied in accordance with AAMA 501.1.

4. Structural: Provide systems tested in accordance with ASTM E330/E330M and certified to be without permanent deformation or failure of structural members.

2.03 MATERIALS

A. Aluminum Plate: Alloy and temper as recommended by manufacturer for application and in compliance with manufacturers design requirements.

1. Aluminum Material: Tension-leveled, fluoropolymer PVDF painted finish, 3003-H14 manganese alloy
2. Weight: Less than 2 lbs per sf.
3. Finish: Two-Coat Fluoropolymer

B. Panel Depth: 1-1/4 inch, nominal.
C. Panel Size: As selected from list of standard sizes.

2.04 FABRICATION

A. Fabricate and finish wall panels within manufacturer's facilities and fulfill indicated performance requirements demonstrated by laboratory testing.

1. Comply with indicated profiles and with dimensional and structural requirements.

B. Provide post-finishing of panels, paint aluminum wall panels only after completion of panel fabrication and ensure exposed edges are coated.

2.05 FINISHES

A. Comply with NAAMM's - Metal Finishes Manual for Architectural and Metal Products, for recommendations of designating finishes.
B. Superior Performance Organic Coating System: AAMA 2605 multiple coat, thermally cured polyvinylidene fluoride (PVDF) resin system.

1. Two-Coat Fluoropolymer: AAMA 2605, fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pre-treat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' installation instructions.
2. Two-Coat Mica Fluoropolymer: AAMA 2605, fluoropolymer finish with suspended mica flakes containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pre-treat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' installation instructions.

C. Field Touch-Up Materials: As recommended by coating manufacturer for field application.

2.06 ACCESSORIES

A. Metal Plate Wall Panel Accessories: Provide components required for a complete metal plate wall panel assembly including trim, copings, fascia, mullions, sills, corner units, flashings, and similar items. Match material and finish of panels unless otherwise indicated.
B. Provide integral drainage system and manufacturers standard extrusions at termination of dissimilar materials.
C. Flashing and Trim: Match material, finish, and color of adjacent wall panels.

1. Thickness: At least 0.040 inch.
2. Refer to Section 07920.

D. Panel Fasteners: Designed to withstand design loads, with at least 7/16 inch diameter head and neoprene washer.

1. Aluminum Wall Panel Material: Provide stainless steel fasteners, or coated fastener approved by panel manufacturer or project wall consultant.

E. Sub-Girts: Galvanized, provide size and gage in accordance with project requirements.

1. Furring Channel: Provide Hat, C, U or Z type as recommended by manufacturer.
2. Flat Strap: At least 14 gage, 0.074? inch (1.90 mm) thick.
3. Refer to Section 05400.

F. Substrate Wall Sheathing: Plywood, PS 1, Grade C-D, Exposure I, at least 5/8 inch thick.

1. Refer to Drawings and Section 06100 for requirements.

G. Weather Barriers: Provide climate specific weather barrier with performance characteristics for air penetration, water vapor transmission, and water penetration resistance.

1. Refer to Section 07250 for requirements.

H. Sealants: As recommended by metal panel manufacturer for openings within wall panels and perimeter conditions.

1. Refer to Section 07920 for requirements.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine substrates, and Work areas and conditions with Installer present for compliance with requirements for installation tolerances, wall panel supports, and other conditions affecting performance of the Work.
B. Examine wall framing to verify that girts, angles, channels, studs, and other structural wall panel support members and anchorage have been installed within alignment tolerances required by wall panel manufacturer.
C. Verify that weather barrier has been installed over sheathing or substrate to prevent air infiltration or water penetration.
D. Examine rough-in for components and systems penetrating wall panels to coordinate actual penetration locations relative to wall panel joint locations prior to installation.
E. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Miscellaneous Framing: Install sub-girt, base angles, sills, furring, and other wall panel support members and provide anchorage in accordance with ASTM C754 for gypsum panel type substrates and panel manufacturer's installation instructions.

3.03 INSTALLATION

A. Install wall panels in accordance with manufacturer's installation instructions, including pressure equalized rainscreen installation method and installation guidelines.

1. Wall panels consist of single sheets of metal formed with interlocking gutter and drainage system integral to the panel with single horizontal attachment for dry-joint rainscreen assembly.
2. Use of secondary drainage channels, brackets, support pins, joint sealants or gaskets will not be permitted, unless otherwise indicated on Drawings.
3. Attach wall panels using progressive interlocking method, engaging bottom of panel in top of previous panel working bottom up, and left to right.
4. Install wall panels with single top attachment in pre-punched holes to allow individual panels to move due to thermal expansion.
5. Do not compromise internal gutter.

B. Install wall panels for orientation, sizes, and locations as indicated on Drawings.
C. Install wall panels with proper anchorage and other components for this Work securely in place.
D. Install wall panels with provisions for thermal and structural movement.
E. Install flashing and trim as indicated to ensure weather tightness of wall panels.
F. Install weather tight seals at perimeter of wall panel openings.

1. Test for proper adhesion on small unexposed area of solid surfacing prior to use.
2. Refer to Section 07920.

G. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA - Architectural Sheet Metal Manual.

1. Provide concealed fasteners where possible, and set units true to line and level as indicated.
2. Install work with laps, joints, and seams that will be permanently watertight and weather resistant.
3. Install flashing and trim as wall panel Work proceeds.

H. Install weather tight escutcheons for pipe and conduit penetrating exterior walls.
I. Metal Protection: Where dissimilar metals will contact each other or corrosive substrates, protect against galvanic action as recommended by wall panel manufacturer.
J. Install attachment system to support wall panels and with provisions to provide a complete weather tight wall system, including sub girts, extrusions, flashings and trim.

1. Include attachment to supports and trims at locations using dissimilar materials.
2. Do not apply sealants to joints, unless noted otherwise on Drawings or Shop Drawings.
3. Install starter extrusion at base course and at cut panel locations.

K. Install accessories with positive anchorage to building and weather tight mounting and provisions for thermal expansion, and coordinate installation with flashings and other components.

1. Install components required for a complete wall panel assembly including trim, copings, flashings and other accessory items.

L. Weather Barrier: Install weather barrier behind wall panels and over substrate in accordance with requirements of Section 07210.

3.04 TOLERANCES

A. Bow and align wall panel units with installed tolerances of 1/4 inch in 20 feet, non-cumulative, on level, plumb, and location lines as indicated.

3.05 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified testing agency to perform shop tests and inspections and to prepare test reports.
B. Manufacturer's Field Service: Engage a factory authorized service representative to inspect field assembled components and equipment installation, including connections, and to assist in field testing. Report results in writing.
C. Repair or remove and reinspect components where tests and inspections indicate that they do not comply with specified requirements.
D. Additional Tests: Perform additional tests and inspections, at Contractor's expense, to verify compliance of replaced wall panels or necessary additional work with specified requirements.
E. Prepare test and inspection reports.

3.06 CLEANING

A. Upon completion of wall panel installation, clean finished surfaces as recommended by panel manufacturer.
B. Upon completion of wall panel installation, clear weep holes and drainage channels of obstructions and dirt.

3.07 PROTECTION

A. Protect installed products from damage during subsequent construction.
B. Replace wall panels damaged or deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION C07410

SECTION - C07464 - CEMENTITIOUS PANELS

PART I - GENERAL

SECTION INCLUDES

1.1 A. Fiber cement lap siding, trim, and accessories; James Hardie HZ5 Engineered for Climate Siding.

RELATED SECTIONS

1.2
A. Section 05400 – Light Gage Metal Framing: Wall framing and bracing.
B. Section 06100 – Rough Carpentry: Wood framing and bracing.
C. Section 06100 – Rough Carpentry: Sheathing.
D. Section 07210 – Insulation: Exterior wall insulation

DELIVERY, STORAGE, AND HANDLING

1.3
A. Store products in manufacturer's unopened packaging until ready for installation.
B. Store siding on edge or lay flat on a smooth level surface. Protect edges and corners from chipping. Store sheets under cover and keep dry prior to installing.
C. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

PROJECT CONDITIONS

1.4
A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

WARRANTY

1.5
A. Product Warranty
1. 30-year non-pro-rated product warranty against manufacturing defects.
B. Finish Warranty: Limited product warranty against manufacturing finish defects.
1. 15-year warranty for peeling, cracking, and chipping. Finish warranty includes coverage for labor and material.
C. Workmanship Warranty: Application limited warranty for 2 years.

PART II - PRODUCTS

MANUFACTURERS

2.1
A. James Hardie Building Products, Inc.
B. Substitutions: Not permitted.

SIDING AND TRIM

2.2
A. Artisan HZ5 lap siding requirement for Materials:
1. Fiber-cement siding - complies with ASTM C 1186 Type A Grade II.
2. Fiber-cement siding - complies with ASTM E 136 as a noncombustible material.
3. Fiber-cement Siding - complies with ASTM E 84 Flame Spread Index = 0, Smoke Developed Index = 5
4. ICC-ES evaluation report ESR-2290
5. Intertek Product Listing.
6. CAL-FIRE, Fire Engineering Division Building Materials Listing - Wildland Urban Interface (WUI) Listed Product.
7. Florida State Product Approval FL-13192.
8. Miami Dade County, Florida Notice of Acceptance -15-0122.04.
9. Texas Department of Insurance Product Evaluation EC-55.
10 Manufacturer's Technical Data Sheet.
.
B. Lap Siding: Artisan HZ5 Siding with Lock Joint System as manufactured by James Hardie Building Products, Inc.
1. Type: Bevel Channel 10-1/4 inches with 9 inches exposure.

C. Trim:
1. HardieTrim HZ5 boards as manufactured by James Hardie Building Products, Inc.
a. Product: 4/4 Boards, width as shown on drawings.
b. Texture: Smooth.
c. Length: 12 feet.
d. Thickness: 1 inch.
2. Fiber-cement trim - complies with ASTM C 1186 Type A Grade II.
3. Fiber-cement trim - complies with ASTM E 136 as a noncombustible material.
4. Fiber-cement trim - complies with ASTM E 84 Flame Spread Index = 0, Smoke Developed Index = 5.
5. Intertek Product Listing.

FASTENERS

2.3
A. Wood Framing Fasteners:
1. Wood Framing fasteners shall be corrosion-resistant round head smooth shank siding nails per manufacturer's approved instructions, and long enough to penetrate the wood studs at least 1-inch.
B. Metal Framing:
1. Metal Framing fasteners shall be self-drilling, corrosion-resistant ribbed screws per manufacturer's approved instructions, and long enough to penetrate the metal studs at least three full threads.

FINISHES

2.4
A. Factory Primer: Provide factory applied universal primer.
1. Primer: Factory primed by James Hardie.
2. Topcoat: Refer to Section 09900 and Exterior Finish Schedule.

PART III - EXECUTION

EXAMINATION

3.1
A. Do not begin installation until substrates have been properly prepared.
B. If framing preparation is the responsibility of another installer, notify Owner of unsatisfactory preparation before proceeding.
C. Nominal 2 inch by 4 inch wood framing selected for minimal shrinkage and complying with local building codes, including the use of water-resistive barriers or vapor barriers where required. Minimum 1-1/2 inches face and straight, true, of uniform dimensions and properly aligned.
1. Install water-resistive barriers and claddings to dry surfaces.
2. Repair any punctures or tears in the water-resistive barrier prior to the installation of the siding.
3. Protect siding from other trades.

PREPARATION

3.2
Clean surfaces thoroughly prior to installation.
A. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
B. Install a water-resistive barrier is required in accordance with local building code requirements.
C. The water-resistive barrier must be appropriately installed with penetration and junction flashing in accordance with local building code requirements.
D. Install weather barrier in accordance with local building code requirements and per manufacturer's approved installation instructions.
E. Install seam tape at joint and laps per local building code requirements and per manufacturer's approved installation instructions.
F. Install flashing per local building code requirements and per manufacturer's approved installation instructions.
G.

INSTALLATION - ARTISAN HZ5 LAP SIDING WITH LOCK JOINT SYSTEM

3.3
A. Install materials in strict accordance with manufacturer's installation instructions.
B. Starting: Install a minimum 1/4 inch thick lath starter strip at the bottom course of the wall. Apply planks horizontally with minimum 1-1/4 inches wide laps at the top. The bottom edge of the first plank overlaps the starter strip.
C. Allow minimum vertical clearance between the edge of siding and any other material in strict accordance with the manufacturer's installation instructions.
D. Align vertical joints of the planks over framing members.
E. Butt joints must not fall within 4 inches of a stud. Do not nail within 2 inches of the end of planks.
F. Maintain clearance between siding and adjacent finished grade.
G. Locate splices at least one stud cavity away from window and door openings.
H. For proper fastener selection and fastening schedules for various wind load requirements and framing options, refer to the Technical Data Sheet at www.aspyredesign.com.
I. Blind-nail to sheathing per Artisan Technical Data Sheet.
1. Face nailing is required in high wind zones, when blind nailing capacity is exceeded per Artisan Technical Data Sheet.
J. Locate splices at least 12 inches away from window and door openings.

INSTALLATION - HARDIETRIM HZ5 BOARDS

3.4
Install materials in strict accordance with manufacturer's installation instructions. Install flashing around all wall openings.
A. Fasten through trim into structural framing or code complying sheathing. Fasteners must penetrate minimum 3/4 inch or full thickness of sheathing. Additional fasteners may be required to ensure adequate security.
B. Place fasteners no closer than 3/4 inch and no further than 2 inches from side edge of trim board and no closer than 1 inch from end. Fasten maximum 16 inches on center.
C. Maintain clearance between trim and adjacent finished grade.
D. Trim inside corner with a single board trim both side of corner.
E. Outside Corner Board – Attach Trim on both sides of corner with 16 gage corrosion resistant finish nail 1/2 inch from edge spaced 16 inches apart, weather cut each end spaced minimum 12 inches apart.
F. Allow 1/8 inch gap between trim and siding.
G. Seal gap with high quality, paint-able caulk.
H. Shim fascia board as required to align with corner trim.
I. Fasten through overlapping boards. Do not nail between lap joints.
J. Overlay siding with single board of outside corner board then align second corner board to outside edge of first corner board. Do not fasten HardieTrim boards to HardieTrim boards.
K.

FINISHING

3.5
A. Finish unprimed siding with a minimum one coat high quality, alkali resistant primer and one coat of either, 100 percent acrylic or latex or oil based, exterior grade topcoats or two coats high quality alkali resistant 100 percent acrylic or latex, exterior grade topcoat within 90 days of installation. Follow paint manufacturer's written product recommendation and written application instructions.
B. Finish factory primed siding with a minimum of one coat of high-quality 100 percent acrylic or latex or oil based exterior grade paint within 180 days of installation. Follow paint manufacturer's written product recommendation and written application instructions.

PROTECTION

3.6
A. Protect installed products until completion of project.
B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION C07464

SECTION - C07530: THERMOPLASTIC MEMBRANE ROOFING

PART I - GENERAL

SUMMARY

1.1
A. Contractor shall furnish and install a 50 mil, single ply membrane roofing system that is fabricated of a weft-inserted low shrink, Anti-wicking Polyester Fabric and has a thermoplastic coating laminated to both sides as manufactured by Duro-Last Roofing Inc.
B. Insulation: Refer to drawings for required thickness and R-Value, Polyisocyanurate, mechanically fastened. (Minimum Prototypical R-Value is 17.4 and prototypical thickness is 3"). Site adapt architect to verify & adjust plans per local regional requirements for actual thickness and R-Value required)

RELATED WORK

1.2
C. Flexible and Sheet Metal Flashing: SECTION C07600
D. Roof Sheet Metal and Trim: SECTION C07620
E. Roof Hatches: SECTION C07720

QUALITY ASSURANCE

1.3
A. Installer Qualifications: A qualified installer, approved by manufacturer to install manufacturer's products.
1. Contact: Linday Beuthin, Regional Sales Manager, (800) 248-0280, ext 2110. Installer must be authorized.
B. Source Limitations: Obtain components for membrane roofing system from approved roofing membrane manufacturer.
C. Fire-Test-Response Characteristics: Provide membrane roofing materials with the fire-test-response characteristics indicated as determined by testing identical products per test method below by UL, FMG, or another testing and inspecting agency acceptable to authorities having jurisdiction.
1. Exterior Fire-Test Exposure: Class A; ASTM E 108, for application and roof slopes indicated.

WARRANTY

1.4
A. Special Warranty: Manufacturer's standard form, without monetary limitation, in which manufacturer agrees to repair or replace components of membrane roofing and flashing system that fail in materials or workmanship within 15 years from date of Substantial Completion. Failure includes roof leaks. It is the Owner's intent to secure a system warrantee for the membrane roofing and roof flashing under one manufacturer's warrantee, with one contractor.

PART II - PRODUCTS

PVC ROOFING MEMBRANE

2.1
A. PVC Sheet: ASTM D 4434, Type III, fabric reinforced.
1. Manufacturers:
a. Duro-Last Roofing, Inc., Saginaw, MI 48601 (See National Account)
2. Thickness: 50 mils (3.55 mm), nominal.
3. Exposed Horizontal Face Color: White
4. Exposed Vertical Face Color: Tan

ROOF SHEET METAL FLASHING AND TRIM

2.2
A. See Section 07620 for roof flashing associated with a "Complete System."

AUXILIARY MATERIALS

2.3
A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with membrane roofing.
B. Sheet Flashing: Manufacturer's standard sheet flashing of same material, type, reinforcement, thickness, and color as PVC sheet membrane.
C. Bonding Adhesive: Manufacturer's standard solvent-based bonding adhesive for membrane, and solvent-based bonding adhesive for base flashings.
D. Metal Termination Bars: Manufacturer's standard pre drilled stainless-steel or aluminum bars, approximately 1 by 1/8 inch (25 by 3 mm) thick; with anchors.
E. Metal Battens: Manufacturer's standard aluminum-zinc-alloy-coated or zinc-coated steel sheet, approximately 1 inch (25 mm) wide by 0.05 inch (1.3 mm) thick, pre punched.
F. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening membrane to substrate, and acceptable to membrane roofing system manufacturer.
G Miscellaneous Accessories: Provide pourable sealers, performed .
cone and vent sheet flashings, performed inside and outside corner sheet flashings, T-joint covers, termination reglets, cover strips, slip sheet, and other accessories.

ROOF INSULATION

2.4
A. Polyisocyanurate Board Insulation, see drawings for required thickness and R-Value: ASTM C 1289, Type II, felt or glass-fiber mat facer on both major surfaces, must be approved by Duro-Last.
B. Tapered Insulation: Provide factory-tapered insulation boards fabricated to slope of 1/4 inch per 12 inches (1:48), unless otherwise indicated.
C. Provide performed saddles, crickets, tapered edge strips, and other insulation shapes where indicated for sloping to drain. Fabricate to slopes indicated.

INSULATION ACCESSORIES

2.5
A. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening roof insulation to substrate, and acceptable to roofing system manufacturer.
B. Cold Fluid-Applied Adhesive: Manufacturer's standard cold fluid-applied adhesive formulated to adhere roof insulation to substrate.
C. Cover Board: ASTM C 208, Type II, Grade 2, cellulosic-fiber insulation board, 1/2 inch (13 mm) thick.
D. Cover Board: DOC PS 2, Exposure 1, oriented strand board, 7/16 inch (11 mm) thick.
E. Cover Board: ASTM C 1177/C 1177M, glass-mat, water-resistant gypsum substrate, 1/2 inch (13 mm) thick.

WALKWAYS AND PROTECTION PADS

2.6
A. Flexible Walkways: Extruded factory-formed pad from recycled roof membranes and oriented strand polyester reinforcement.
1. Duro-Last Roofing, Inc., Saginaw, MI 48601 (See National Accounts) "Roof Trak III"

PART III - EXECUTION

SUBSTRATE BOARD INSTALLATION

3.1
A. Install substrate board with long joints in continuous straight lines, perpendicular to roof slopes with end joints staggered between rows. Tightly butt substrate boards together.

INSULATION INSTALLATION

3.2
A. Coordinate installing membrane roofing system components so insulation is not exposed to precipitation or left exposed at the end of the workday.
B. Comply with membrane roofing system manufacturer's written instructions for installing roof insulation.
C. Install tapered insulation under area of roofing to conform to slopes indicated.
D. Mechanically Fastened Insulation: Install each layer of insulation and secure to deck using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to deck type.
1. Fasten insulation to resist uplift pressure at corners, perimeter, and field of roof. Contact Duro-Last Engineering Services to determine fastening requirements.
E. Install cover boards over insulation with long joints in continuous straight lines with end joints staggered between rows. Loosely butt cover boards together and fasten to roof deck.
1. Fasten to resist uplift pressure at corners, perimeter, and field of roof.

MECHANICALLY FASTENED ROOFING MEMBRANE INSTALLATION

3.3
A. Install roofing membrane over area to receive roofing according to roofing system manufacturer's written instructions. Unroll roofing membrane and allow to relax before installing.
1. Install sheet according to ASTM D 5082.
B. Mechanically or adhesively fasten roofing membrane securely at terminations, penetrations, and perimeter of roofing. Contact Duro-Last Engineering Services to determine fastening requirements.
C. Seams: Clean seam areas, overlap roofing membrane, and hot-air weld side and end laps of roofing membrane according to manufacturer's written instructions to ensure a watertight seam installation.
1. Repair tears, voids, and lapped seams in roofing membrane that does not meet requirements.
D. In-Splice Attachment: Secure one edge of roofing membrane using fastening plates or metal battens centered within membrane splice and mechanically fasten roofing membrane to roof deck. Field-splice seam.
E. Through-Membrane Attachment: Secure roofing membrane using fastening plates or metal battens and mechanically fasten roofing membrane to roof deck. Cover battens and fasteners with a continuous cover strip.

BASE FLASHING INSTALLATION

3.4
A. Install sheet flashings and performed flashing accessories and adhere to substrates according to membrane roofing system manufacturer's written instructions.
B. Apply solvent-based bonding adhesive to substrate and underside of sheet flashing at required rate and allow to partially dry. Do not apply bonding adhesive to seam area of flashing.
C. Flash penetrations and field-formed inside and outside corners with sheet flashing.
D. Clean seam areas and overlap and firmly roll sheet flashings into the adhesive. Weld side and end laps to ensure a watertight seam installation.
E. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.

WALKWAY AND PROTECTION PAD INSTALLATION

3.5
A. Flexible Walkways: Install walkway products in locations indicated. Heat-weld (hot air) attachment skirts to roof membrane per manufacturer's written instructions.

FIELD QUALITY CONTROL

3.6
A. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to perform roof tests and inspections and to prepare test reports.
B. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion and submit report to Architect.
C. Repair or remove and replace components of membrane roofing system where test results or inspections indicate that they do not comply with specified requirements.

END OF SECTION C07530

SECTION - C07600: FLEXIBLE AND SHEET METAL FLASHING

PART I - GENERAL

SECTION INCLUDES

1.1
A. Elastomeric flashing for walls, doors and windows.
B. Metal flashings indicated on the drawngs.
C. Mechanical equipment support curb sheetmeal caps and flahsings.
D. Note: The owner preferences a product with a higher pre-consumer and/or post-consumer recycled content under the condition that there is not a significant increase in price between the product options. Under the condition that there is not a significant increase in price between the product options.

RELATED SECTIONS

1.2
A. Unit Masonry Assemblies: SECTION C04810
B. Thermoplastic Membrane Roofing: SECTION C07530
C. Sealants and Caulking: SECTION C07920
D. Roof Sheet metal Flashing and Trim: SECTION C7620

REFERENCES

1.3
A. Publications: Perform sheetmetal work in accord with recommendations in the latest edition of the Architectural Sheet Metal Manual, as published by the Sheet Metal and Air Conditioning National Contractor's Association.

GUARANTEE

1.4
A. In addition to the requirements specified, sheetmetal work shall be completely watertight. The Contractor shall furnish in writing guarantees providing for repairs to sheetmetal work at no additional cost to the Owner. Guarantee shall include repair of all leaks or defects in sheetmetal materials and workmanship appearing within two years of date of acceptance by the Owner.

PART II - PRODUCTS

FLEXIBLE (ELASTOMERIC) FLASHING

2.1
A. Elastomeric Flashing: Flashing and accessories for installation in cavity wall construction. Including but not limited to:
1. Wall bases
2. Heads of openings
3. Window sills
4. Shelf angles and lintels
5. Wall discontinuities in the cavity
B. Provide a water proof EPDM membrane through-wall flashing integrated with the wall assembly's water resistive barrier and cavity drainage system. Provide a EPDM membrane flashing of 0.40 inch (40 mil) thickness consisting of cured, dimensional stable, non-reinforced with talc removed surfaces.
C. Provide accessories as required, including

SECTION - C07620: ROOF SHEET METAL FLASHING AND TRIM

PART I - GENERAL

1.1 SECTION INCLUDES

A. Metal trims, coping, gutters, downspouts and accessories
B. Metal fascia panels
C. Metal soffit panels

1.2 RELATED SECTIONS

A. Thermoplatic Membrane Roofing: SECTION C07530
B. Flexible and Sheetmetal Flashing: SECTION C07600

1.3 REFERENCES

A. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc Aluminum Coated (Galvalume) Steel.
B. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
C. Dade County (Florida) Acceptance, Florida Product Approval (FBC)
D. SMACNA (ASMM) - Architectural Sheet Metal Manual; Sheet Metal and Air Conditioning Contractors National Association; Architectural Sheet Metal Manual 2006 6TH Edition.
E. IBC 2006/12 International Building Code
F. ES 1 compliant to meet with ANSI/SPRI
G. ASCE 7-10

1.4 SUBMITTALS

A. Submit under provisions of Section C01000
B. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.
C. Shop Drawings: Submit shop drawings showing layout, profiles and product components, including anchorage, accessories, finish colors and textures.
D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square representing actual product, color, and patterns.
F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
G. Operation and Maintenance Data: Include methods for maintaining installed products and precautions relating to cleaning materials and methods that might be detrimental to finishes and performance.
H. Close Out: Warranty documents specified herein.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: A qualified installer, approved by manufacturer to install manufacturer's products.
1. Contact: Lindy Beuthin, Regional Sales Manger, (800) 248-0280, ext. 2110. Installer must be authorized.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging with identification labels intact until ready for installation.
B. Store materials protected from exposure to harmful conditions. Store material in a dry, above ground location.
1. Stack pre-finished material to prevent twisting, bending, and abrasion, scratching and denting. Elevate one end of each skid to allow for moisture to run off.
2. Prevent contact with material that may cause corrosion, discoloration or staining.
3. Do not expose to direct sunlight or extreme heat trim material with factory applied strippable film.

1.7 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.8 WARRANTY

A. Manufacturer's Warranty: Provide manufacturer's warranty, inclusive of all sheet metal, edge to edge as detailed in SECTION 07530 roofing section. The system shall be as provided by Duro-Last and made part of the edge to edge warranty.

PART II - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturer: Duro Last/Exceptional Metals, Saginaw, MI 48601 (See National Accounts)
B. Requests for substitutions will be considered in accordance with provisions of Section C01030.
C. Soffit Panels: Exceptional Metals Aluminum Soffit Panels; V-grooved.
1. Type: Smooth Surface
2. Type: 0.040 Aluminum
3. Style: Solid
4. Panel Width: 12 inches (305 mm), center to center.
5. Color: As indicated on the drawings
D. Trim: Manufacturer's standard trim profiles, factory formed; fabricated as recommended in SMACNA Architectural Sheet Metal Manual.
1. Material: 24 gauge, 0.024 inch (0.61 mm) ASTM A 653/A 653M Galvalume steel.
2. Material: 22 gauge, 0.03 inch (0.76 mm) ASTM A 653/A 653M Galvanized Grade 50 steel.
3. Material: 0.040 inch (0.1mm) aluminum, ASTM B 209 3105-H14 alloy.
4. Finish: KYNAR 500/HYLAR 5000 70% PVDF (Polyvinylidene fluoride) paint.
5. Color: As indicated on the drawings
E. Gutters and Downspouts: Manufacturer shall provide gutters and downspouts. Finish and color as indicated on the drawings.
6. Gutter shall consist of 24 gauge Galvalume, Kynar 500/Hylar 5000, Grade 50 steel consisting of 70% PVDF coating.
7. Downspouts shall consist of 24 gauge Galvalume, Kynar 500/Hylar 5000, Grade 50 steel, 70% PVDF coating. All seams for downspouts shall be Pittsburgh seamed not pop riveted, except at the elbows. Pop rivets shall be Stainless Steel and match in color.
F. Two Piece Compression perimeter edge metal:
1. Base leg attached to the perimeter shall consist of 22 gage steel cleat.
2. Compression Edge Metal shall consist of 0.040 Aluminum to match the color as indicated on drawings.
H. Coping Cap:
1. Coping Special design shall be as detailed in the drawings, providing 24 gage cleat, splice plates and coping base on 4-inch face.
I. Scupper Overflow and Through Wall with custom fit Receiver
1. Scupper Overflow: Metal Flange and 2 Skirt Scupper consisting of 24 gauge vinyl coated steel shall be shop fabricated by the manufacturer. The skirt shall be back sealed using the factory supplied mastic behind the flange.
2. Scupper and Collector: Through Wall Scupper and Collector shall be shop fabricated and sized by the manufacturer in one monolithic assembly. The top flange of the collector shall be back sealed and fastened at 6-inch centers. The Receiver/Collector Box shall match color, as indicated on the drawings. The Receiver/Collector shall be 24 gauge steel, Grade 50 steel and the scupper shall be made part of the specified warranty.
3. All Skirts for through wall and for overflow scupper shall be fabricated with White PVC.
J. Fascia Custom and Standard Fascia
1. Custom Fascia shall be of 0.040 aluminum.
2. Standard Fascia shall consist of 24 gauge steel. Use manufacturer provided cleats.

PART III - EXECUTION

3.1 EXAMINATION

A. Verify that substrates are acceptable for roofing installation in accordance with manufacturer's instructions.
B. Do not begin installation until substrates have been properly prepared.
C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 INSTALLATION

A. Install in accordance with manufacturer's written instructions.
B. Coordinate roofing with other work, including but not limited to drainage, flashing and trim, deck substrates, parapets, copings, walls, and other adjoining work.
C. Install roofing, patterns and drainage indicated, in accordance with manufacturer's instructions, and as necessary to achieve specified performance and a leak-free Installation. Allow for structural and thermal movement.
D. Separate dissimilar metals using bituminous coating to prevent galvanic action.
E. Provide uniform, neat seams; provide sealant-type joint where indicated and form joints to conceal sealant.

3.3 FIELD QUALITY CONTROL

A. Post Installation Testing: Owner reserves right to perform post installation testing of installed roofing.
B. Manufacturer's Field Services: Upon Owner's request, provide manufacturer's field service consisting of product use recommendations and periodic site visit for inspection of product installation in accordance with manufacturer's instructions. Field Technician shall be a certified inspector employed by Duro-Last and not a member of the sales staff.

3.4 CLEANING

A. Remove temporary coverings and protection of adjacent work areas.
B. Touch-up, repair or replace damaged products.
C. Clean in accordance with manufacturer's instructions prior to Substantial Completion.
D. Remove construction debris from project site and legally dispose of debris.

3.5 PROTECTION

A. Protect installed products until completion of project.
B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION C07620

SECTION - C07720: ROOFTOP SUPPORT SYSTEMS

PART I - GENERAL

1.1 SECTION INCLUDES

A. The work covered by this specification consists of furnishing all labor, equipment, materials and accessories, and performing all operations required for the correct installation of recycled rubber pipe supports for mechanical piping and elevated platform supports for refrigeration condensers.

1.2 QUALITY ASSURANCE

A. Rooftop Support Systems shall be manufactured under a strict quality control program assuring quality product delivered to the jobsite. Supports that are damaged shall not be installed.
B. Workmanship: All supports to be installed by a qualified contractor and installed in accordance with manufacturer's recommendations.
1. All work shall comply with all applicable federal, state, and local codes and laws having jurisdiction.
2. All work shall conform to accepted industry and trade standards for pipe support installations.

1.3 RELATED SECTIONS

A. Thermoplatic Membrane Roofing: SECTION C07530
B. Flexible and Sheetmetal Flashshing: SECTION C07600

PART II - PRODUCTS

2.1 MANUFACTURERS

A. Pipe Supports:
1. Cooper B-Line, Inc., Highland, IL 62249, "DURA-BLOK"
B. Elevated Equipment Supports:
2. AVCOA Corporation, Fort Lauderdale, FL 33314

2.2 MATERIALS

A. Pipe Support: Curb base shall be made of 100% recycled rubber and polyurethane prepolymer with a uniform load capacity of 500 pounds per linear foot of support. In addition, each base to have a reflective yellow stripe.
1. Steel Frame: Steel, 14 gauge strut galvanized per ASTM A653 or 12 gauge strut galvanized per ASTM A653 for bridge series.
2. Attaching hardware: Zinc-plated threaded rod, nuts and attaching hardware per ASTM B633.
B. Equipment Support: Constructed of 6061-T6 Aluminum alloy. The support system shall consist of rectangular or circular tube legs, with rails (I-beams) and clips and plates. Engineered to withstand high velocity hurricane zone provisions. Wind loads shall be verified with local jurisdiction having authority. Verify minimum clear clear height required.

PART III - EXECUTION

3.1 INSTALLATION

A. Pipe Support:
1. Install in accordance with manufacturer's instructions.
2. Always consult roofing manufacturer for roof membrane compression capacities. If necessary, a compatible sheet of roofing material (rubber pad) may be installed under rooftop support to disperse concentrated loads and add further membrane protection.
3. Gas pipe spacing subject to local gas authorities.
4. Use properly sized clamps to suit pipe sizes.
B. Equipment Elevated Support:
1. Install 2 rails 5 feet each and 2 rails 7 feet with three supports each rail (center middle leg). 5 feet rails to be 31-inches apart at cooler/freezer condensers and 7feet rails to be 27-inches apart at ice machine condensers. Stands shall provide 18-inch minimum clearance and shall be sized and installed according to the manufacturer's load charts and printed installation details.

END OF SECTION C07720

SECTION - C07740: ROOF HATCHES

PART I - GENERAL

1.1 SECTION INCLUDES

A. Furnish labor, materials, services, equipment and appliances required for roof hatch work only when indicated on the Drawings and specified herein.

1.2 RELATED SECTIONS

A. Aluminum Ladders: SECTION C05514
B. Thermoplatic Membrane Roofing: SECTION C07530
C. Flexible and Sheetmetal Flashing: SECTION C07600

1.3 WARRANTY

A. Manufacturer's Standard Warranty: Materials shall be free of defects in material and workmanship for a period of five (5) years from the date of purchase.

1.4 SUBSTITUTIONS

A. Substitutions shall be considered in accordance with provisions of Section C01030.

PART II - PRODUCTS

2.1 MANUFACTURER

A. Bilco Company, New Haven, CT 06505

2.2 ROOF HATCHES

A. Type "S-50-TB"; completely assembled:
1. Curbs: Shall be 12" (305mm) in height and of 11 gauge (2.3mm) aluminum. Interior and exterior surfaces shall be thermally broken to minimize heat transfer and to resist condensation. The curb shall be formed with a 5-1/2" (140mm) flange with 7/16" (11mm) holes provided for securing to the roof deck. The curb shall be equipped with an integral metal capflashing of the same gauge and material as the curb, fully welded at the corners, that features the Bil-Clip® flashing system, including stamped tabs, 6" (153mm) on center, to be bent inward to hold single ply roofing membrane securely in place.
2. Curb Insulation:Shall be 3" (75mm) thick polyisocyanurate with an R-value = 20.3 (U=0.279 W/m2K).
3. Covers: Shall be 11 gauge (2.3mm) aluminum with a 5" (127mm) beaded flange with formed reinforcing members. Interior and exterior surfaces shall be thermally broken to minimize heat transfer and to resist condensation. Cover shall have a heavy extruded EPDM rubber gasket bonded to the cover interior to assure a continuous seal when compressed to the top surface of the curb.
4. Cover Insulation: Shall be 3" (75mm) thick polyisocyanurate with an R-value = 20.3 (U=0.279 W/m2K), fully covered and protected by an 18 gauge (1mm) aluminum liner.
4. Lifting Mechanisms: Manufacturer shall provide compression spring operators enclosed in telescopic tubes to provide, smooth, easy, and controlled cover operation throughout the entire arc of opening and closing. The upper tube shall be the outer tube to prevent accumulation of moisture, grit, and debris inside the lower tube assembly. The lower tube shall interlock with a flanged support shoe welded to the curb assembly.
6. Hardware:
1.Heavy stainless steel pintle hinges shall be provided
2.Cover shall be equipped with a spring latch with interior and exterior turn handles
3.Roof hatch shall be equipped with interior and exterior padlock hasps.
4.The latch strike shall be a stamped component bolted to the curb assembly.
5.Cover shall automatically lock in the open position with a rigid hold open arm equipped with a 1" (25mm) diameter red vinyl grip handle to permit easy release for closing.
6.Compression spring tubes shall be an anti-corrosive composite material and all other hardware shall be zinc plated and chromate sealed. [For installation in highly corrosive environments or when prolonged exposure to hot water or steam is anticipated, specify Type 316 stainless steel hardware].
7.Cover hardware shall be bolted into heavy gauge channel reinforcing welded to the underside of the cover and concealed within the insulation space.
7. Finishes: Factory finish shall be mill finish aluminum.

2.3 FABRICATION

A. Fabricate free of visual distortions and defects. Weld corners and joints. Provide for removal of condensation. Provide weather-tight assembly.

PART III - EXECUTION

3.1 PROTECTION

A. Cover and protect hatches from damage before and after installation. Replace damaged covers at no additional cost to Owner.

3.2 INSTALLATION

A. Install in accord with manufacturer's instructions. Coordinate with installation of roofing system and related flashings. Provide weather-tight installation. Apply bituminous paint on metal surfaces of units in contact with cementitious materials and dissimilar metals.

END OF SECTION C07740

SECTION - C07920: SEALANTS AND CAULKING

PART I - GENERAL

1.1 SECTION INCLUDES

A. Exterior sealing; waterproofing and visual requirements.
B. Interior sealing; painting requirements.
C. Interior mildew-resistant sealant.
D. Fire-resistant joint sealant.
E. Preparing sealant substrate surfaces.
F. Sealant and backing.

1.2 RELATED SECTIONS

A. Concrete Footing/Slab-on-Grade: SECTION C03300
B. Unit Masonry Assemblies: SECTION 04810
C. Finish Carpentry: SECTION C062000
D. Flexible and Sheet Metal Flashing: SECTION C07600
E. Roof Sheet Metal Flashing and Trim: SECTION C07620
F. Aluminum-Framed Entrances and Storefronts: SECTION C08411
G. Pass-Thru Windows: SECTION C08580
H. Gypsum Board: SECTION C09250
I. Reinforced Wall Coverings: SECTION C097700
J. Painting: SECTION C09910
K. Millwork, Cabinetry and Countertops: SECTION C12390

1.3 INTENT

A. Requirements of this Section controls the type and quality of sealing work. Unless specifically directed otherwise in other Sections and/or on the Drawings these Technical Sections shall take precedence.
B. Provide sealant required to close joints that would allow moisture or air to enter structure between fixed materials as shown on the drawings and as herein specified including but not limited to:
1. Sealing of interior perimeter joints of window framing, door frames, and other wall openings.
2. Setting of thresholds in sealant.
3. Sealing of joints between countertops and wall surfaces for a sanitary joint.
4. Sealing of joints of every nature and description that would allow moisture or air penetration.
5. Sealing of joints indicated to be caulked or sealed whether specifically mentioned herein or not.
6. Sealing around all pipe, duct and vent penetrations.

PART II - PRODUCTS

2.1 MANUFACTURER

A. The Drawings were prepared & written on the basis of using the products pre-approved by the Owner. Such is intended to establish minimum quality and LEED standards, not to limit competitive bidding. Products with equal or superior characteristics by other manufacturers are acceptable under conditions of the Section C01030. The use of sealants with low VOC's is preferred.

2.2 SEALANT MATERIALS

A. Exterior Sealant: Compound used at masonry joints.
1. BASF Sonolastic NP2, three-part polyurethane sealant; ASTM-C920, Type M.
2. Color: Match brick mortar
B. Exterior Sealant: Compound used at exterior sidewalks and exposed concrete areas.
1. BASF Sonolastic NP2, three-part polyurethane sealant; ASTM-C920, Type M.
2. Color: Match exposed concrete
C. Interior Sealant: Compound used throughout job in dining, kitchen, restrooms, etc:
1. Dow Corning 790, one-part neutral-cure silicone sealant.
2. Color: Clear
D. Fire-Resistant Joint Sealant: (as required by building codes or authorities)
One part fire-stopping sealant system formulated for use in through-penetration sealing of openings, cables, conduit, pipes, and penetrations through walls and floors.
1. 3M Fire Barrier Sealant CP-25WB+ by Electrical Products Division, 3M Company.
E. Kitchen Exhaust Hoods to Stainless Steel Wall Panels:
1. 3M "Fire Barrier" 2000
2. International Protective Coatings "Flamesafe" FS 1900.

2.3 ACCESSORIES

A. Primer: Non-staining type, recommended by sealant manufacturer, to suit application.
B. Joint Cleaner: Non-corrosive and non-staining; recommended by sealant manufacturer; compatible with joint forming materials.
C. Joint Backing: Where required, non-absorbent and non-staining foam rod, compatible with sealant used. Diameter required to form friction surface at sides of open joint.
D. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.
E. Masking Tape: FS UU-T-106.

PART III - EXECUTION

3.1 GENERAL

A. Do not use interior sealant for exterior conditions. Gun apply compound with nozzle of proper size to fit width of joint indicated; force sealant into joint with sufficient pressure to expel air and fill groove solidly.

3.2 INSPECTION

A. Verify that surfaces and joint openings are ready to receive work and field measurements are as shown on Drawings and recommended by sealant manufacturer. Beginning of installation means installer accepts existing conditions as appropriate for work.

3.3 CONDITIONS

A. Exterior: Apply sealants when temperature is between 40 and 100 degrees F.
B. Interior: Do not install solvent curing sealants in enclosed building spaces. Maintain temperature and humidity recommended by sealant manufacturer during and after installation.

3.4 PREPARATION

A. Perform in accord with ASTM C804 for solvent release and C790 for latex base sealants. Remove loose materials and foreign matter which might impair adhesion of sealant. Clean and prime joints in accord with manufacturer's instructions. Verify that joint backing and release tapes are compatible with sealant. Protect elements surrounding work of this Section from damage or disfiguration.

3.5 INSTALLATION

A. General: Conform to SWI requirements for installation and with manufacturer's instructions. Measure joint dimensions and size materials to achieve required width/depth ratios.
B. Joint Backing: Install to achieve neck dimension no greater than 1/3 joint width.
C. Bond Breaker: Install where joint backing is not used.
D. Masking Tape: Place on finish surface on one or both sides of joint cavity to protect adjacent finish surfaces from compound smears. Remove within 10 minutes after joint has been filled and tooled.
E. Primer: Use in accord with manufacturer's instructions. Test for staining on samples of actual surfaces to be sealed prior to application.

3.6 FINISHING

A. Tool joints slightly concave unless shown otherwise on the Drawings. When tooling white or light color sealant, use dry or water wet tool.

3.7 CLEANING AND REPAIRING

A. Remove masking tapes and clean adjacent soiled surfaces. Repair or replace defaced or disfigured finishes caused by work of this Section.

3.8 PROTECTION OF COMPLETED WORK

A. Protect sealants until cured.

END OF SECTION C07920

DIVISION 8 - DOORS AND WINDOWS

SECTION - C08110: STANDARD STEEL DOORS AND FRAMES

PART I - GENERAL

1.1 SUMMARY

A. All doors and frames in this section are to be supplied and installed by the General Contractor through the Owner's National Account Vendor, refer to National Account list.
B. Section Includes:
1. Pressed steel hollow metal doors and frames.
2. Hollow metal frames for Plastic Laminate doors.
3. Metal louvers in hollow metal doors.
4. Hollow metal frame reinforcing, door reinforcing, door inslulation, closer reinforcements, clips angles and anchorage.
5. Factory prime paint finish.

1.2 RELATED SECTIONS

A. Unit Masonry Assemblies (Grout): Section C04810
B. Plastic Laminate Faced Doors: SECTION C08210
C. Finish Door Hardware: SECTION C08710
D. Glazing: SECTION C08800
E. Painting: SECTION C09910

1.3 QUALITY ASSURANCE

A. Applicable Standards: Specifications and standards of SDI 100-98.
B. Wind Load Performance Requirements: All exterior doors and frames must meet design pressure provided by the Architect/Engineer for this project.
C. Supplier Qualification: Qualified direct distributor of products to be furnished. The distributor shall have in their regular employment an A.H.C./C.D.C. or person of equivalent experience who will be available at reasonable times to consult with the Architect, Contractor and/or Owner regarding any matters affecting the total door and frame openings.
D. Installer Qualification: Experience with installation of similiar materials.

1.3 SUBMITTALS

A. Product Data: Include construction details, material descriptions, core descriptions, label compliance, fire-resistance rating, and finishes for each type of steel door and frame specified.
B. Product test reports.
C. Shop Drawings: Provide a schedule of standard steel doors and frames using same reference numbers for details and openings as those on the drawings.

1.4 PRODUCT HANDLING

A. Deliver hollow metal doors in manufacturer's protective covering. Handle hollow metal with care to prevent damage.
B. Door Storage: Store doors in upright position, under cover. Place doors on 4-inch minimum high wood sills or on floors in manner that will prevent rust and damage. Do not use non-vented plastic or canvas shelters which create humidity chamber and promote rusting. If corrugated wrapper on door becomes wet, or moisture appears, remove wrapping immediately. Provide 1/4-inch space between doors to promote aire circulation.
C. Frame Storage: Store frames under cover on 4-inch minimum wood sills or on floors in manner that will prevent rust and damage. Don not use non-vented plastic or convas shelters which create humidity chamber and promote rusting. Store assembled frames in vertical position, 5 units maximum in stack. Provide 1/4-inch space between frames to promote air circulation.

PART II - PRODUCTS

2.1 MANUFACTURERS

A. HOLLOW METAL SUPPLIER CONTACT INFORMATION:
Locknet,
100 Courchelle Drive
Nickolasville, KY 40356
ATTN: Jeffr Kirkner (856) 887-9119 ext. 131

2.2 HOLLOW METAL

A. Acceptable Manufactures:
1. Steelcraft an Ingersoll-Rand Company, "L-Series"
2. Amweld Building Products, Inc.
3. Ceco Door Products; an ASSA ABLOY Group Company
B. Cold-Rolled Steel Sheet: Commercial quality, streatcher leveled flatness, cold-rolled steel, free from scale, pitting or other surface defects, compying with ASTM A366 and A568 gernerel requirements.
C. Galvanealed Steel Sheets: ASTM A924, A60 zinc coating. Use galvenealed steel sheets for exterior hollow metal doors, door frames and door louvers. Internal reinforcing may be manufactured of hot rolled pickled and oiled steel per ASTM-A569.
D. Coating materials, primer: Use manufacture's standard rust inhibiting primer conforming to ANSI-A224.1-1990.

2.3 RELATED MATERIALS

A. Supports and Anchors: After fabricating, galvanize units to be built into exterior walls according to ASTM A 153/A 153M, Class B.
B. Inserts, Bolts and Anchors: Provide items to be built into exterior walls, hot-dip galvanized according to ASTM A 153/A 153M/
C. Power-Actuated Fasteners in Concrete: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with clips or other accessory devises for attaching standard steel door frames of typ indicated.
D. Bituminous Coating: cold-applied asphalt mastic, SSPC-Paint 12, compounded for 15-mil dry film thickness per coat. Provide inert-type noncorrosive compound free of asbestos fibers, sulfur components, and other deleterious impurities.

2.4 STANDARD STEEL DOORS

A. General: Provide doors of design indicated, not less than thickness indicated; fabricated with smooth surfaces, without visible joints or seams on exposed faces. Comply with ANSI A250.8.
1. Core Construction: Manufacturer's standard polystyrene core that produces doors complying with ANSI A250.8.
2. Vertical Edges for Single-Acting Doors: Beveled edge.
a. Beveled Edge: 1/8 inch in 2 inches (3 mm in 50 mm).
3. Top and Bottom Edges: Closed with flush or inverted 0.042-inch- (1.0-mm-) thick end closures or channels of same material as face sheets.
B. Exterior Doors: Face sheets fabricated from metallic-coated steel sheet. Provide doors complying with requirements indicated below by referencing ANSI A250.8 for level and model and ANSI A250.4 for physical-endurance level:
1. Level 3 and Physical Performance Level A (Extra Heavy Duty), Model 2 (Seamless).
C. Interior Doors: Face sheets fabricated from cold-rolled steel sheet, unless otherwise indicated to comply with exterior door requirements. Provide doors complying with requirements indicated below by referencing ANSI A250.8 for level and model and ANSI A250.4 for physical-endurance level:
1. Level 2 and Physical Performance Level B (Heavy Duty), Model 2 (Seamless).

2.5 STANDARD STEEL FRAMES

A. General: Comply with ANSI A250.8 and with details indicated for type and profile.
B. Exterior Frames: Fabricated from metallic-coated steel sheet.
1. Frames for Level 3 Steel Doors: 14 GA. steel sheet.
C. Interior Frames: Fabricated from cold-rolled steel sheet, unless otherwise indicated to comply with exterior frame requirements.
1. Frames for Level 2 Steel Doors: 16 GA. steel sheet.
2. Frames for Laminate Doors: 0.053-inch (1.3 mm) thick steel sheet.
D. Supports and Anchors: Fabricated from electrolytic zinc-coated or metallic coated steel sheet.
E. Jamb Anchors: Masonry, stud-wall, compression, or postinstalled expansion type; not less than 0.042 inch (1.0 mm) thick.
F. Floor Anchors: Formed from same material as frames, not less than 0.042 inch (1.0 mm) thick.
G. Plaster Guards: Formed from same material as frames, not less than 0.016-inch (0.4-mm) thick.

2.6 FABRICATION

A. General: Fabricate standard steel doors and frames to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and assemble units in manufacturer's plant. To ensure proper assembly at Project site, clearly identify work that cannot be permanently factory assembled before shipment. Reinforce as required to support loads imposed by door operation and for installing hardware.
B. Standard Steel Doors:
1. Exterior Doors: Provide weep-hole openings in bottom of exterior doors to permit moisture to escape. Seal joints in top edges of doors against water penetration.
2. Glazed Lites: Factory cut openings in doors.
C. Standard Steel Frames: Where frames are fabricated in sections due to shipping or handling limitations, provide alignment plates or angles at each joint, fabricated of same thickness metal as frames.
1. Welded Frames: Weld flush face joints continuously; grind, fill, dress, and make smooth, flush, and invisible.
2. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners, unless otherwise indicated.
3. Plaster Guards: Weld guards to frame at back of hardware mortises in frames installed in concrete or masonry.
4. Floor Anchors: Weld anchors to bottom of jambs and mullions with at least four spot welds per anchor.
5. Jamb Anchors: Locate anchors not more than 18 inches (457 mm) from top and bottom of frame. Space anchors not more than 32 inches (813 mm) o.c.
6. Door Silencers: Except on weather-stripped doors, drill stops to receive door silencers as follows. Provide plastic plugs to keep holes clear during construction.
D. Hardware Preparation: Factory prepare standard steel doors and frames to receive templated mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping, according to the Door Hardware Schedule and templates furnished as specified on the drawings.
1. Comply with applicable requirements in ANSI A250.6 and ANSI/DHI A115 Series specifications for door and frame preparation for hardware. Locate hardware as indicated on Shop Drawings or, if not indicated, according to ANSI A250.8.
E. Stops and Moldings: Provide stops and moldings around glazed lites where indicated. Form corners of stops and moldings with butted or mitered hairline joints.
1. Provide fixed stops and moldings welded on secure side of door or frame.
2. Provide loose stops and moldings on inside of doors and frames.

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FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT

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CONSULTANT PROJECT # 04591
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SHEET
SPECIFICATIONS

SHEET NUMBER
A-906

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2.7 FINISHES
A. Steel Finish: Factory priming for field-painted finish.
1. Shop Primer: Manufacturer's standard, fast-curing, lead- and chromate-free primer complying with ANSI A250.10 acceptance criteria.

PART III - EXECUTION

3.1 INSTALLATION
A. Remove welded-in shipping spreaders installed at factory.
B. Provide doors and frames of sizes, thicknesses, and designs indicated. Install standard steel doors and frames plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.
C. Standard Steel Frames: Install standard steel frames for doors and other openings, of size and profile indicated. Comply with SDI 105.
1. Set frames accurately in position; plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is complete, remove temporary braces, leaving surfaces smooth and undamaged.
a. At fire-protection-rated openings, install frames according to NFPA 80.
b. Apply bituminous coating to backs of frames that are filled with mortar, grout, and plaster containing antifreezing agents.
2. Metal-Stud Partitions: Solidly pack mineral-fiber insulation behind frames.
3. Masonry Walls: Coordinate installation of frames to allow for solidly filling space between frames and masonry with mortar as specified in Unit Masonry Assemblies.
4.. Concrete Walls: Solidly fill space between frames and concrete with grout. Install grout in lifts and take precautions, including bracing frames, to ensure that frames are not deformed or damaged by grout forces.
D. Standard Steel Doors: Fit hollow-metal doors accurately in frames. Shim as necessary.
1. Fire-Rated Doors: Install doors with clearances according to NFPA 80.
E. Glazing: Comply with installation requirements and with standard steel door and frame manufacturer's written instructions.
F. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including standard steel doors or frames that are warped, bowed, or otherwise unacceptable.
G. Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air-drying primer.

END OF SECTION C08110

SECTION C08210: PLASTIC LAMINATE FACED DOORS

PART I - GENERAL

1.1 SUMMARY
A. All doors in this section are to be supplied and installed by the General Contractor through the Owner's National Account Vendor, refer to National Account List.
B. Sections Includes:
1. Plastic Laminated Faced Doors

1.2 RELATED SECTIONS
A. Hollow Metal Doors and Frames: SECTION C08110
B. Finish Door Hardware: SECTION C08710

1.3 REFERENCES
A. AWI P-200 - Architectural Woodwork Quality Standards Illustrated; 1997, Seventh Edition, Version 1.0.
B. WDMA NWWDA I.S.1-A - Architectural Wood Flush Doors; 1997.

1.4 SUBMITTALS
A. Submit under provisions of Section 01300.
B. Shop Drawings: Door and frame schedule.
C. Specimen Warranty.

1.5 WARRANTY
A. Provide manufacturer's written warranty that doors will be free of defects for the period specified under normal use. Adhere to manufacturer's requirements to avoid voiding warranty.

PART II - PRODUCTS

2.1 MANUFACTURERS
A. PLASTIC LAMINATE FACED DOOR SUPPLIER CONTACT INFORMATION:
Lockset,
100 Courchelle Drive
Nickolasville, KY 40356
ATTN: Jeff Kirkner (856) 887-9119 ext. 131

2.2 MATERIALS
A. Non-Fire-Rated Solid Core Doors: Flush wood doors faced with NEMA LD 3, Grade HGS (0.050-inch thick) high pressure plastic laminate.
1. Type: Particleboard core type, complying with AWI Type PC-HPDL-3 and WDMA NWWDA I.S.1-A; with average 30 pcf (480 kg/cu m) density core complying with ANSI A208.1 Grade LD-1.
a. Crossbanding: 1/10 inch (2.5 mm) thick 3-ply wood crossbanding.
b. Face Backer: 1/10 inch (2.5 mm) thick hardboard face backer.
2. Facing Color: See drawings.
3. Edge Banding: Matching laminate.
4. Total Thickness: 1-3/4 inches (44 mm).
5. Core Edges: Structural composite lumber.
6. Stiles and Rails: Solid hardwood lumber.
7. Stile Width: 1-3/8 inches (35 mm) before trimming.
8. Top Rail Height: 1-3/8 inches (35 mm) before trimming.
9. Bottom Rail Height: 1-3/8 inches (35 mm) before trimming.
10. Adhesive: Type I, waterproof & urea-free.

2.3 FABRICATION
A. Doors: Factory fit doors to suit frame-opening sizes indicated, with the following uniform clearances and bevels, unless otherwise indicated.
1. Comply with clearance requirement standards for non rated door fitting.
2. Factory machine doors for hardware that is not surface applied.
B. Coordinate measurements of hardware mortises in metal frames to verify dimensions and alignment before factory machining.

2.4 QUALITY CONTROL
A. Face Plane Tolerance (Telegraphing): Variation in surface of face not more than 1/100 inch from true plane in any 3 inch span.
B. Warp Tolerance: Bow, cup, and twist not more than 1/4 inch in any 42 inches wide by 84 inches high area, or less, if door dimensions are smaller; excluding doors less than 1-3/4 inch thick that are over 36 inches wide or 84 inches high and doors with cutouts exceeding manufacturer's specified limits.

PART III - EXECUTION

3.1 PREPARATION
A. Verify that frames comply with indicated requirements for type, size, location, and swing characteristics and have been installed with level heads and plumb jambs.

3.2 INSTALLATION
A. Install all materials in strict accordance with the manufacturer's installation instruction with doors in frame plumb and true, without rack, and so doors do not fall open or closed simply due to gravity.
1. Install door frames with specified.
2. Install door hardware as specified.

3.3 FIELD QUALITY CONTROL
A. Installation Tolerances: Install non fire-rated doors with not more than 1/8-inch clearance at top and sides, 1/4-inch at bottom.

3.4 ADJUSTING, CLEANING AND PROTECTION
A. Operation: Adjust door and frame for free operation without binding, rack, or warp. Re-hand or replace doors that do not swing or operate freely.
B. Clean and remove dust and other foreign matter from panel and framing surfaces. Clean finishes in accordance with manufacturer's instructions.
C. Project installed doors until completion of project.

END OF SECTION C08210

SECTION - C08320: FRP FLUSH DOORS

PART I - GENERAL

1.1 SECTION INCLUDES
A. Fiberglass reinforced polyester (FRP) flush doors with aluminum frames.

1.2 RELATED SECTIONS
A. Standard Steel Door and Frames: SECTION C08110

1.3 PERFORMANCE REQUIREMENTS
A. General: Provide door assemblies that have been designed and fabricated to comply with specified performance requirements, as demonstrated by testing manufacturer's corresponding standard systems.
B. Air Infiltration: For a single door 3'-0" x 7'-0", test specimen shall be tested in accordance with ASTM E 283 at pressure differential of 6.24 psf. Door shall not exceed 0.90 cfm per linear foot of perimeter crack.
C. Water Resistance: For a single door 3'-0" x 7'-0", test specimen shall be tested in accordance with ASTM E 331 at pressure differential of 7.50 psf. Door shall not have water leakage.
D. Thermal Transmission, Exterior Doors, U-Value, AAMA 1503-98: Maximum of 0.29 BTU/hr x sf x degrees F. Minimum of 55 CRF value.
E. Surface Burning Characteristics, FRP Doors and Panels. ASTM E 84:
11. Flame Spread: Maximum of 200, Class C.

1.4 SUBMITTALS
A. Product Data: Submit manufacturer's product data, including description of materials, components, fabrication, finishes, and installation.

1.5 WARRANTY
A. Warrant doors, frames, and factory hardware against failure in materials and workmanship, including excessive deflection, faulty operation, defects in hardware installation, and deterioration of finish or construction in excess of normal weathering.
B. Warranty Period: Ten years starting on date of shipment. In addition, a limited lifetime (while the door is in its specified application in its original installation) warranty covering: failure of corner joinery, core deterioration, delamination or bubbling of door skin.

PART II - PRODUCTS

2.1 MANUFACTURER
A. Special-Lite, Inc., Decatur, Michigan 49045.

2.2 FRP FLUSH DOORS
A. Model: SL-17 Flush Doors with SpecLite3 fiberglass reinforced polyester (FRP) face sheets.
B. Construction:
1. Door Thickness: 1-3/4 inches.
2. Stiles and Rails: Aluminum extrusions made from prime-equivalent billet that is produced from 100% reprocessed 6063-T6 alloy recovered from industrial process, minimum of 2-5/16-inch depth.
3. Corners: Mitered.
4 Provide joinery of 3/8-inch diameter full-width tie rods through extruded splines top and bottom integral to standard tubular shaped stiles and rails reinforced to accept hardware as specified.
5. Securing Internal Door Extrusions: 3/16-inch angle blocks and locking hex nuts for joinery. Welds, glue, or other methods are not acceptable.
6. Furnish extruded stiles and rails with integral reglets to accept face sheets. Lock face sheets into place to permit flush appearance.
7. Rail caps or other face sheet capture methods are not acceptable.
8. Extrude top and bottom rail legs for interlocking continuous weather bar.
9. Meeting Stiles: Pile brush weatherseals. Extrude meeting stile to include integral pocket to accept pile brush weatherseals.
10. Bottom of Door: Install bottom weather bar with nylon brush weatherstripping into extruded interlocking edge of bottom rail.
11. Glue: Use of glue to bond sheet to core or extrusions is not acceptable.
C. Face Sheet:
1. Material: SpecLite3 FRP, 0.120-inch thickness, finish color throughout.
2. Protective Coating: Abuse-resistant engineered surface. Provide FRP with SpecLite3 protective coating, or equal.
3. Texture: Pebble.
4. Adhesion: The use of glue to bond face sheet to foam core is prohibited.
D. Core:
1. Material: Poured-in-place polyurethane foam.
2. Density: Minimum of 5 pounds per cubic foot.
3. R-Value: Minimum of 9.
E. Cutouts:
1. Factory install vision lites, louvers, and panels.
F. Hardware:
1. Premachine doors in accordance with templates from specified hardware manufacturers and hardware schedule. No exceptions will be allowed.

2.3 MATERIALS
A. Aluminum Members:
1. Aluminum extrusions made from prime-equivalent billet that is produced from 100% reprocessed 6063-T6 alloy recovered from industrial processes: ASTM B 221.
2. Sheet and Plate: ASTM B 209.
3. Alloy and Temper: As required by manufacturer for strength, corrosion resistance, application of required finish, and control of color.
B. Components: Door and frame components from same manufacturer.
C. Fasteners:
1. Material: Aluminum, 18-8 stainless steel, or other noncorrosive metal.
2. Compatibility: Compatible with items to be fastened.
3. Exposed Fasteners: Screws with finish matching items to be fastened.

2.4 ALUMINUM DOOR FRAMING SYSTEMS
A. Tubular Framing:
1. Size and Type: As indicated on the Drawings.
2. Materials: Aluminum extrusions made from prime-equivalent billet that is produced from 100% reprocessed 6063-T6 alloy recovered from industrial processes, 1/8-inch minimum wall thickness.
3. Applied Door Stops: 0.625-inch high, with screws and weatherstripping. Door stop shall incorporate pressure gasketing for weather seal. Counterpunch fastener holes in door stop to preserve full metal thickness under fastener head.
4. Frame Members: Box type with 4 enclosed sides. Open-back framing in not acceptable.
5. Caulking: Caulk joints before assembling frame members.
6. Joints:
a. Secure joints with fasteners.
b. Provide hairline butt joint appearance.
7. Field Fabrication: Field fabrication of framing using stick material is not acceptable.
8. Applied Stops: For side, transom, and borrowed lites and panels. Applied stops shall incorporate pressure gasketing for weathering seal. Reinforce with solid bar stock fill for frame hardware attachments.
9. Hardware:
a. Premachine and reinforce frame members for hardware in accordance with manufacturer's standards and hardware schedule.
10 Anchors:
.
a. Anchors appropriate for wall conditions to anchor framing to wall materials.
b. Door Jamb and Header Mounting Holes: Maximum of 24-inch centers.
c. Secure head and sill members of transom, side lites, and similar conditions.
B. Frame Capping:
1. Model: SL-70.
2. Capping: With insert frame as indicated on the Drawings.
3. Finish: Match framing.

2.5 HARDWARE
A. Premachine doors in accordance with templates from specified hardware manufacturers and hardware schedule.

2.6 VISION LITES
A. Factory Glazing: 1/4-inch glass
B. Lites in Exterior Doors: Allow for thermal expansion.

2.7 ALUMINUM FINISHES
A. Anodized Finish: Class I finish, 0.7 mils thick. See Drawings for finish.

PART III - EXECUTION

3.1 INSTALLATION
A. Install doors in accordance with manufacturer's instructions.
B. Install doors plumb, level, square, true to line, and without warp or rack.
C. Anchor frames securely in place.
D. Separate aluminum from other metal surfaces with bituminous coatings or other means approved by Architect.

END OF SECTION C08320

SECTION - C08306: ACCESS PANELS

PART I - GENERAL

1.1 SECTION INCLUDES
A. Flush mounted access panels.

1.2 RELATED SECTIONS
A. Metal Fabrications: SECTION C05500
B. Gypsum Board Systems: SECTION C09250
C. Rough Carpentry: SECTION C06000
D. Painting: SECTION C09910

PART II - PRODUCTS

2.1 MANUFACTURER
A. Interior Access Panels:
1. Larsen Manufacturing Co, Minneapolis, MN 55432
2. MIFBA, Chicago, IL 60643
3. Substitutions are allowed as described in SECTION C01030
B. Exterior Access Panels:
1. JL Industries, Bloomington, MN 55435

2.2 ACCESS PANELS
A. Interior: Access panels shall meet or exceed the following:
1. Size: 16 x 16 or as indicated on the drawings
2. Material:
a. Door: 14 gage galvanized steel, minimum
b. Frame: 16 gage steel, minimum
2. Hardware:
a. Hinges: Concealed.
b. Locks: Flush screw driver operated steel cam.
3. Anchors: Manufacturer's standard for use intended.
4. Finish: Phosphate dipped steel with factory prime coat.
B. Exterior: Model XPA weather resistant flush access panel
1. Material:
a. Door: 2-inch thick insulated .040 aluminum
b. Insulation: Fiberglass
c. Frame: 16 gauge galvanized steel frame with 1-inch hinge
2. Hardware:
a. Hinge: Continuous stainless steel piano hinge
3. Handle: Provide (2) non-locking (H) die-cast zinc handles with chrome plating
4. Gasket: EPDM foam rubber bulb seal
5. Anchors: Manufacturer's standard for use intended.
6. Powdercoat Finish: Bronze (B)
7. Provide spring chain to prevent door swinging more than 110 degrees.

PART III - EXECUTION

3.1 INSTALLATION
A. Protect access panels from damage. Protect work of other trades during installation. Install access panels in locations indicated, complete in all details, securely anchored in place, plumb, level and parallel with building lines. Finally installed access panels shall open and close freely.

3.2 CLEAN-UP
A. Upon completion of work of this Section, remove all debris relating to the conduct of this portion of the work from the premises.

END OF SECTION C08306

SECTION - C08344: TRAFFIC DOORS

PART I - GENERAL

1.1 SUMMARY
A. Light to medium duty traffic doors.

1.2 SUBMITTALS
A. Submit under provisions of SECTION C01300.
B. Product Data: Manufacturer's data sheets on each product to be used, including:
2. Preparation instructions and recommendations.
3. Storage and handling requirements and recommendations.
4. Installation methods.
5. Operation and maintenance data.

1.3 WARRANTY
A. Provide manufacturer's standard two-year warranty that products are free of defects in material and workmanship and guaranteeing to replace (exclusive of freight and labor) parts proven defective within two years after date of shipment purchaser.

PART II - PRODUCTS

2.1 MANUFACTURERS
A. Eliason Corporation, Kalamazoo, MI 49003, (800) 828-3655.
B. Substitutions: Not permitted.

2.2 TRAFFIC DOORS
A. Personnel Doors: 3/4-inch exterior grade solid wood core; 1-inch total thickness; light to medium duty.
1. Facing: Full length stainless steel panels. (Model SCP-3)
a. Full Length Panels: 18 gauge stainless steel both sides; stainless steel top hinge covers.
2. Window Size: 10-inch diameter.
3. Window Molding: Black rubber molding.
4. Glazing: Clear acrylic.
5. Provide jamb guards and base plates as specified in Accessories below.
2.3 HARDWARE AND ACCESSORIES
A. Hinges: Double Action Easy Swing proprietary hinges.
1. Finish: Stainless steel.
B. Jamb Guards: Use in high impact traffic areas to protect the door jamb and bottom pin. Installed at bottom edges of corners.
1. Finish: Stainless steel.
2. Size: 3-inches (76 mm) wide by 9-inches (229 mm) high.

PART III - EXECUTION

3.1 EXAMINATION
A. Do not begin installation until substrates have been properly prepared.
B. Verify jambs plumb and square.

3.2 PREPARATION
A. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION
A. Install in accordance with the manufacturer's instructions.
B. Anchor assembly to wall construction and building framing without distortion or stress.
C. Fit and align door assembly including hardware.
D. Adjust door assembly to smooth operation and in full contact with weatherstripping.

END OF SECTION C08344

SECTION C08411: ALUMINUM-FRAMED ENTRANCES & STOREFRONTS

PART I - GENERAL

1.1 SUMMARY
A. Section Includes: Aluminum Storefront, including:
1. Aluminum storefront with thermally broken frame.
2. Aluminum storefront with non-thermally broken frame for interior applications.
3. Aluminum Entrance System
B. Related Sections:
1. Sealants and Caulks: SECTION C07920
2. Finish Door Hardware: SECTION C08710
3. Glazing: SECTION C08800
C. Note: The owner's preference is for a product with a higher pre-consumer and/or post-consumer recycled content under the condition that there is not a significant increase in price between the product options. Contractor to submit options.

1.2 SYSTEM PERFORMANCE DESCRIPTION
A. Performance Requirements: Provide aluminum storefront systems that comply with performance requirements indicated, as demonstrated by testing manufacturer's assemblies in accordance with test method indicated.
1. Wind Loads: Completed storefront system shall withstand wind pressure loads normal to wall plane indicated:
a. Exterior Walls:
b. Positive Pressure: Refer to project specific requirements
c. Negative Pressure: Refer to project specific requirements
4. Deflection: Maximum allowable deflection in any member when tested in accordance with ASTM E 330 with allowable stress in accordance with AA Specifications for Aluminum Structures.
a. Without Horizontals: L/175 maximum.
b. With Horizontals: L/175 or L/240 + 1/4-inch (6.4mm) for spans greater than 13'-6" (4.1m) but less than 40'-0" (12.2m).
5. Thermal Movement: Provide for thermal movement caused by 180 degrees F. (82.2 degrees C.) surface temperature, without causing buckling stresses on glass, joint seal failure, undue stress on structural elements, damaging loads on fasteners, reduction of performance, or detrimental effects.
6. Air Infiltration: Completed storefront systems shall have 0.06 CFM/FT² (1.10 m³/h·m²) maximum allowable infiltration when tested in accordance with ASTM E 283 at differential static pressure of 6.24 PSF (299 Pa).
7. Water Infiltration: No uncontrolled water when tested in accordance with ASTM E 331 at test pressure differential of 10 PSF (479 Pa) (or when required, field tested in accordance with AAMA 503). Fastener Heads must be seated and sealed against Sill Flashing on any fasteners that penetrate through the Sill Flashing.
8. Thermal Performance: When tested in accordance with AAMA 507, AAMA 1502 and NFRC 100:
a. Condensation Resistance Factor (CRFf): A minimum of 60.
b. Complete System Thermal Transmittance U Value: 0.50 BTU/HR/FT²/°F or less.
9. Acoustical Performance: When tested in accordance with AAMA 1801:
a. Sound Transmission Class (STC) shall not be less than 35.
b. Outdoor-Indoor Transmission Class (OITC) shall not be less than 29.

1.3 SUBMITTALS
A. General: Prepare, review, approve, and submit specified submittals in accordance with "Conditions of the Contract" and Division 1 Submittals Sections. Product data, shop drawings, samples, and similar submittals are defined in "Conditions of the Contract."
B. Closeout Submittals:
1. Warranty: Submit warranty documents specified herein.
2. Project Record Documents: Submit project record documents for installed materials in accordance with Division 1 Project Closeout (Project Record Documents) Section.

1.4 WARRANTY
A Project Warranty: Refer to "Conditions of the Contract" for project warranty provisions.
B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by an authorized company official.
1. Warranty Period: Manufacturer's one (1) year standard warranty commencing on the Substantial date of Completion.

PART II - PRODUCTS

2.1 MANUFACTURERS
A. Acceptable Manufacturers:
1. YKK AP America Inc. (National Account)
2. Kawneer North America. (National Account)
3. Substitutions will not be accpeted.
B. Storefront Framing System: Exterior Applications
1. Storefront System:
a. YKK AP YES / YES 45 TU Center Set Storefront System
b. Kawneer Trifab VG 451T Framing System
2. Description: Center set, exterior flush glazed; jambs and vertical mullions continuous; head, sill, intermediate horizontal attached by screw spline joinery or shear block attachment.
3. Components: Manufacturer's standard extruded aluminum mullions, 90 degree corner posts, entrance door framing, and indicated shapes.
4. Thermal Barriers:
a. YKK - Provide continuous thermal barrier by means of a poured and debridged pocket consisting of a two-part, chemically curing high density polyurethane which is bonded to the aluminum by YKK Therma Bond Plus®. Systems employing non-structural thermal barriers are not acceptable.
b. Kawneer - IsoLock™ Thermal Break with a 1/4" (6.4 mm) separation consisting of a two-part chemically curing, high-density polyurethane, which is mechanically and adhesively joined to aluminum storefront sections.
C. Storefront Framing System: Interior Applications
1. Storefront System:
a. YKK AP YES / YES 45 TU Center Set Storefront System
b. Kawneer Trifab VG 451T Framing System
2. Description: Center set, exterior flush glazed; jambs and vertical mullions continuous; head, sill, intermediate horizontal attached by screw spline joinery or shear block attachment.
3. Components: Manufacturer's standard extruded aluminum mullions, 90 degree corner posts, entrance door framing, and indicated shapes.
4. Thermal Barriers:
a. YKK - Provide continuous thermal barrier by means of a poured and debridged pocket consisting of a two-part, chemically curing high density polyurethane which is bonded to the aluminum by YKK Therma Bond Plus®. Systems employing non-structural thermal barriers are not acceptable.
b. Kawneer - IsoLock™ Thermal Break with a 1/4" (6.4 mm) separation consisting of a two-part chemically curing, high-density polyurethane, which is mechanically and adhesively joined to aluminum storefront sections.
D. Entrance System:
1. Standard:
a. YKK AP Series 20D Narrow Stile
b. Kawneer 190 Narrow Stile
2. Thermal (where required by code):
a. YKK AP Series 35XT Medium Stile
b. Kawneer Insulpour 250T Narrow Stile
2.2 MATERIALS
A. Aluminum Extrusions: ASTM B 221 (ASTM B 221M), 6063-T6 Aluminum Alloy.
B. Aluminum Sheet:
1. Anodized Finish: ASTM B 209 (ASTM B 209M), 5005-H14 Aluminum Alloy, 0.050-inch (1.27 mm) minimum thickness.
2. Painted Finish: ASTM B 209 (ASTM B 209M), 3003-H14 Aluminum Alloy, 0.080-inch (1.95 mm) minimum thickness.

2.3 ACCESSORIES
A. Manufacturer's Standard Accessories:
1. Fasteners: Aluminum, nonmagnetic stainless steel or other materials to be non-corrosive and compatible with aluminum framing members, trim hardware, anchors, and other components
2. Glazing: As secified in Division 08, Section "Glazing".
3. Glazing Gaskets: Glazing gaskets in accordance with ASTM C864.
4. Spacers and Setting Blocks: Setting blocks, edge blocks, and spacers in accordance with ASTM C864, shore durometer hardness as recommended by manufacturer
5. Flashing: 0.050 Aluminum Sill Flashing End Dams must have 3 point attachment.
6. Provide rubber safety gasket in Playground along sills and up full height along sides.
B. Refer to drawings for door hardware requirements.

2.4 FINISHES AND COLORS
A. Colors by Manufacturer
1. YKK - YBSN Dark Bronze Anodized Plus
2. Kawneer - #40 Dark Bronze
3. Verify finish color with drawings.
B. Anodized Finishing by Manufacturer
1. Anodic Coating: Electrolytic color coating shall be a minimum of .7 mils.
C. Top Coat by Manufacturer

PART III - EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS / RECOMMENDATIONS
A. Compliance: Comply with manufacturer's product data, including product technical bulletins, installation instructions, and product carton instructions.
1. The latest YKK installation manual is available at www.ykkap.com
2. The latest Kawneer installation manual is available at www.kawneer.com

3.2 INSTALLATION
A. General: Install system in accordance with manufacturer's published instructions, shop drawings, and within specified tolerances.
B. Provide sill flashing at exterior storefront systems. Extend extruded flashing continuous with splice joints; set in continuous beads of sealant.

3.3 ADJUSTING AND CLEANING
A. Adjusting: Adjust swing doors for operation in accordance with manufacturer's recommendations.
B. Cleaning: The General Contractor shall clean installed products in accordance with manufacturer's instructions prior to owner's acceptance, and remove construction debris from project site. Legally dispose of debris.

END OF SECTION C08411

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Atlanta, Georgia
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CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
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SHEET
SPECIFICATIONS

SHEET NUMBER
A-907

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SECTION - C08460: AUTOMATIC ENTRANCE DOORS

PART I - GENERAL

1.1 SUMMARY

A. Section Includes: Furnishing and installing factory fabricated and finished automatic sliding door system(s).

B. Related Sections:

1. Unit Masonry Assemblies: SECTION C04810
2. Sealants and Caulks: SECTION C07920
3. Glazing: SECTION C08800
4. Electrical Division 16 - See Electrical Drawings

1.2 REFERENCES

A. ANSI/UL 325 – Door, Drapery, Gate Louver and Window Operators and Systems

B. ANSI Z97.1 Safety Glazing Material Used in Buildings – Methods of Test.

C. ASTM B221 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Shapes and Tubes.

D. NFPA 101 Life Safety Code

E. Builders' Hardware Manufacturers Association (BHMA)

F. International Standards Organization (ISO)

G. American Association of Automatic Door Manufacturers (AAADM)

1.3 SUBMITTALS

A. Product Data: Provide manufacturer's product and complete installation data for all materials in this specification

B. Shop drawings: Show profiles, joining method, location of components, anchorage details, adjacent construction interface, and dimensions as well as all necessary wiring and electrical requirements

C. Samples: Sized to adequately represent material

D. Contract Closeout: Submit the Manufacturer's warranty and performance certifications [if applicable]

E. Installation Guide: Provide written installation and operating manuals and/or installation recommendations.

1.4 QUALITY ASSURANCE

A. Automatic sliding door system shall be CERTIFIED by the manufacturer to meet performance design criteria according to the following test standards: [select, if applicable]

1. ANSI A156.10
2. NFPA 101
3. Underwriter's Laboratories (UL) listed.
4. C-UL certified (equivalent to CSA certified)

B. TORMAX iMotion® 2301 Direct Drive System: Shall be manufactured in an ISO 9001 registered manufacturing facility

1.5 PRODUCT HANDLING

A. All materials shall arrive in the manufacturer's original sealed, labeled containers.

B. Store materials in a dry, protected, well-vented area. Report damaged material immediately to the delivering carrier and note such damage on the carrier's freight bill of lading.

C. Remove all protective materials after installation.

1.6 SUBSTITUTIONS

A. Proposals for substitution products will not be accepted.

1.7 JOB CONDITIONS

A. Verify that other trades are complete before installing the automatic sliding door system.

B. Mounting surfaces shall be plumb, straight and secure; substrates shall be of proper dimension and material.

C. Refer to the construction documents, shop drawings and manufacturer's installation instructions.

D. Coordinate installation with the glass, glazing and electrical work.

E. Observe all appropriate OSHA safety guidelines for this work.

1.8 WARRANTY/GUARANTEE

A. Manufacturer's Standard Warranty: Warranted materials shall be free of defects in material and workmanship for one year after installation.

PART II - PRODUCTS

2.1 MANUFACTURER

A. Tormax USA Inc., San Antonio, TX 78247 (See National Accounts); No substitutions

2.2 AUTOMATIC SLIDING DOOR SYSTEMS

A. Automatic Sliding Door System: Shall be TORMAX Series TX9200. The system shall consist of sliding aluminum door(s) and sidelight(s), header, jambs, TORMAX iMotion® 2301 direct drive system, doorway holding beams and TORMAX 7501 Sensors. The system shall be completely engineered, manufactured and assembled by TORMAX. All components shall be factory assembled in the header, adjusted and tested. No field wiring or operator adjustment shall be required other than the connection to job-site power. The TORMAX iMotion® 2301direct drive system shall automatically adjust door speeds to compensate for various door sizes, weights and environmental conditions.

2.3 OPERATING CONDITIONS

A. Climatic Conditions: All automatic sliding door system components shall operate between –30 and +130 degrees F (-34 and +54 degrees C) in all climatic conditions.

PART III - EXECUTION

3.1 INSPECTION

A. Verify that the automatic sliding door system installation will not disrupt other trades. The door installer shall verify that the installation area is dry, clean and free of foreign matter. Check as-built conditions and verify the manufacturer's automatic sliding entrance system details for accuracy to fit the wall assembly prior to fabrication. Report in writing to the Contractor any detrimental conditions to the proper functioning of the automatic sliding door system. Installation shall proceed once the unsatisfactory conditions have been corrected in accordance to the manufacturer's recommendations.

3.2 INSTALLATION OF THE TORMAX TX9200 AUTOMATIC SLIDING ENTRANCE SYSTEMS

A. Installation shall be by an installer approved and trained by the manufacturer in strict accordance with the manufacturer's instructions and fire marshall's listing requirements.

B. Comply with the automatic sliding door system manufacturer's recommendations and/or installation and operating manuals when installing the automatic sliding door system. Set all units plumb, level and true.

C. Provide all fasteners required for installation of the automatic sliding door system.

D. Cleaning: Clean all metal surfaces promptly after installation.

E. Explain and review the Daily Safety Check Procedure.

END OF SECTION C084229

SECTION - C08580: PASS-THRU WINDOWS

PART I - GENERAL

1.1 SUMMARY

A. Section Includes: Aluminum automatic pass-thru service windows.

1.2 RELATED SECTIONS

A. Unit Masonry Assemblies: SECTION C04810

B. Sealants and Caulks: SECTION C07920

C. Glazing: SECTION C08800

Electrical Division 16 - See Electrical Drawings

1.3 REFERENCES

A. American Architectural Manufacturer's Association (AAMA):

1. ANSI/AAMA 101: Voluntary Specs. for Aluminum & Poly Vinyl Chloride Prime Windows & Glass Doors

B. American National Standards Institute (ANSI):

1. ANSI Z97.1: Safety Glazing Materials Used in Buildings - Safety Performance Specs & Methods of Test

1.4 SYSTEM OF DESCRIPTION

A. Performance Requirements: Provide automatic aluminum windows which have been manufactured, fabricated, and installed to maintain performance criteria by manufacturer without defects, damage, or failure.

1.5 SUBMITTALS

A. Product Data: Submit manufacturer's product data and standard details for automatic and manual windows for project closeout.

B. Quality Assurance Submittals and Closeout Submittals: Submit the following:

1. Manufacturer's Installation instructions and Operation and Maintenance Data.
2. Warranty document as specified herein.

1.6 WARRANTIES

A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.

B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document. Manufacturer's warranty is in addition to, and not a limitation of, other rights owner may have under the Contract Documents.

1. Warranty Period: One year warranty shall be provided commencing on Date of Substantial Completion.

C. Distributor's Warranty: The installing distributor shall provide one-year warranty covering the labor and transportation charges for defective parts replacement.

PART II - PRODUCTS

2.1 MANUFACTURERS

A. Quickserv Corp, Houston, TX 40466 (See National Accounts). No substitutions.

1. Model BP-7241E (Bi-Parting Horizontal Sliding Windows Unit):
   a. Service Opening: 29-1/2 inches (w) x 32 inches (h)
   b. Rough Opening: 72-1/2 inches (w) x 41-1/2 inches (h)
   c. Operation Sensor
   1. Thru-Beam Horizontal Eye Bar
   2. Push Button
   d. Glazing: 5/8-inch laminated
   e. Finish: As indicated on the drawings
   f. Meets Performance Requirements of CMSBO, Section 15 50 100, Texts CAWM 301-90, Forced Entry Resistance Test for Windows, and ASTM F588.
   g. Hook Lock: Adam's Rite

2.2 EQUIPMENT

A. Window Unit Components:

1. Header: Aluminum, 4 inch deep by 6 inch high with removable face plate.
2. Track: Aluminum, 1/4 inch wide, nylon covered, replaceable.
3. Rollers: Steel, high quality ball bearing wheels 1-1/4 inch in diameter.
4. Sliding panel(s) and fixed panel(s): Aluminum and glass.
5. Concealed guides: To stabilize bottom of sliding panel.
6. Anti-derailing means: A continuous aluminum extrusion full length of travel slide panel.
7. Mohair weather-strip: On all strike rails as well as on adjoining vertical rails.
8. Jambs: Aluminum, 1-3/4 inch by 4 inch.
9. Glass: Thickness and glazing as per unit type.
10. Hardware:
    a. Manual Locks: Single slide units equipped with Adams Rite® maximum security MS1850 lock, 1-5/32 inch cylinder, 6410 standard thumbturn and keeper.

B. Operator Components/Features for Automatic Units:

1. 1/2 inch threadless shaft constructed of induction hardened steel.
2. Linear travel block utilizing six aircraft quality ball bearings with integral clutch and rod lubrication.
3. 1/8 HP DC permanent magnet motor, 1800 RPM
4. Electronic control module.
5. Fully and independently adjustable open seed and close check
6. Adjustable time delay from 1 to 20 seconds
7. Adjustable reversing circuit enabling operator to reopen window unit if closing path is obstructed.
8. Circuit breaker (.5 Amp) for current overload protection.

2.3 GLASS AND GLAZING

A. General: Glass and glazing provided by manufacturer in thickness and type recommended for particular unit type.

B. Glass Materials (thickness as per unit type):

1. Laminated Glass: ASTM E774, ASTM 1036.90 Dual-Seal.

2.4 FABRICATION

A. Panel Construction: Mortise and tenon type joints, neatly and mechanically secured. Sash consists of snap-in glass stops, snap-in glazing beads and vinyl gaskets.

B. Frame Construction: Butt joints, neatly and mechanically secured by means of screws and formed aluminum corner brackets.

C. Operator for Automatic Units: Electromechanical, modular type construction.

2.5 FINISHES

A. Standard Stock Finishes (for all exposed aluminum surfaces): Verify color with Finish Schedule

1. 313-R1 Dark Bronze: Architectural Class II Anodic Coating with Integral Color, AA- MI2C22A32

PART III - EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

A. Compliance: Comply with factory product data, technical bulletins, and installation and carton instructions.

3.2 INSTALLATION

A. General: Install window units plumb, level, and true to line, without warp or rack of frames or sash with manufacturer's prescribed tolerances. Provide support and anchor in place.

1. Dissimilar Materials: Comply with AAMA 101, Appendix Dissimilar Materials by separating aluminum materials and corrodible surfaces from sources of corrosion or electrolytic action contact points.
2. Weather-tight Construction: Install sill and other members in a bed of sealant or with joint filler or gaskets. Coordinate installation with wall flashings and other components of construction.
3. Electrical (for automatic units): Installer to adjust operator and controls for optimum condition and safety.

3.3 CLEANING, ADJUSTMENT, AND PROTECTION

A. Cleaning: After installation, installer will clean product surfaces and lubricate operating equipment for optimum condition and safety.

B. Adjustment (for automatic units): Installer to adjust operator and controls for optimum condition and safety.

END OF SECTION C08580

SECTION - C08710: FINISH DOOR HARDWARE

PART I - GENERAL

1.1 SUMMARY

A. All door hardware covered in this section is to be provided by the National Accounts Vendor and installed by the General Contractor, unless noted otherwise on the drawings.

1. Provide door gaskets, including weather stripping and seals and thresholds.
2. Provide gate hardware.

1.2 RELATED SECTIONS

A. Standard Steel Doors and Frames: SECTION C08110

B. Plastic Laminate Faced Doors: SECTION C08210

C. Aluminum-Framed Entrances & Storefronts: SECTION C08411

1.3 REFERENCES

A. ANSI/BHMA Certified Product Standards - A156 Series

B. Hardware items shall comply with ANSI specifications and the Americans with Disabilities Act.

1.4 QUALITY ASSURANCE

A. Hardware Supplier: Company specializing in supplying door hardware with three years documented experience approved by manufacturer.

1.5 SUBMITTALS

A. General: Submit per SUBMITTALS Section.

B. Operation and Maintenance Data: Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance. Data shall be submitted as part of contract closeout.

1.6 DELIVERY, STORAGE AND HANDLING

A. Package hardware items individually with necessary fasteners, instructions, and installation templates, when necessary; label and identify each package with door opeing code to match hardware schedule.

1.7 COORDINATION OF WORK

A. Coordinate Work with other directly affected sections involving manufacture or fabrication of internal reinforcement for door hardware and recessed items.

B. Provide templates or actual hardware as required to ensure proper preparation of doors and frames.

C. Sequence installation to accommodate required utility connections.

D. Coordinate Owner's keying requirements during course of Work.

1.8 WARRANTY

A. Furnish manufacturer warranty for lockstes and door closers.

1.9 MAINTENANCE MATERIALS

A. Furnish special wrenches and tools applicable for each different and for eash special hardware component.

B. Furnish maintenance tools and accessories supplied by hardware componet manufacturer.

PART II - PRODUCTS

2.1 MANUFACTURERS

A. HOLLOW METAL SUPPLIER CONTACT INFORMATION:
Locknet
100 Courchelle Drive
Nickolasville, KY 40356
ATTN: Jeff Kirkner (856) 887-9119 ext. 131

2.2 COMPONENTS

A. General Hardware Requirements: Where not specifically indicated, comply with applicable ANSI A156 standard for type of hardware required. Furnish each type of hardware with accessories as required for applications indicated and for complete, finished, operational doors.

1. Templates: Furnish templates or physical hardware items to door and frame manufacturers sufficiently in advance to avoid dealy in Work.
2. Reinforcing Units: Furnished by door and frame manufacturers; coordinated by hardware supplier or hardware manufacturer.
3. Fasteners: Furnish as recommended by hardware manufacturer and as required to secure hardware. Finish to match hardware item being fastended.

B. Hinges: ANSI A156.1, full mortise type, template type, ASNI A156.7, complying with followiong general requirements unless otherwise scheduled.

1. Widths: Sufficient to clear trim projection when door swings 180 degrees.
2. Number: Furnish minimum three hinges to 90-inches height.
   a. Interior Flat Panel Wood Doors: Furnish minimum three hinges.
3. Size and Weight: 4-1/2 inch standard weight typical for 1-3/4 inch doors.
   a. Doors over 40-inch wide, extra heavy weight ball or oilite bearing hinges.
   b. Doors over 48-inch wide, 5-inch extra heavy ball or oilite bearing hinges.
4. Pins: Furnish nonferrous hinges with non-removable pins (NRP) at exterior and loced out swinging doors, non-rishing pines at interior doors.
5. Tips: Flush

C. Locks and Latchsets: Furnish locksets compatible with specified cylinders. Typical 2-3/4 inch backset. Furnish standard strickes with extended lips to protect trim from being marred by latch bolt verify type of cutouts provided in metal frames.

1. Board (Cylindrical) Locksets: ANSI A156.2, Series 4000, Grade 1 unless otherwise indicated.
2. Stainless Steel latchbolt for added strength and wear resistance. Direct 1/2-inch throw is standard.
3. Wear-resistant plates in the chassis to help extned the life of the lockbody and provide smoother lock operation.
4. Lifetime warranted heavy-duty lever return springs prevent lever sag and provide positive return to lever to horizontal position.

D. Cylinders:

1. All cylinders to be as specified in Hardware Schedule.
2. Keying: Keyed as directed by Owner.
3. All locking products to be supplied with black construction cores for use during construction.
4. Keys: Nickel Silver
5. Supply quantity of keys as directed by Owner.

E. Closers: ANSI A156.4 modern type with cover, surface mounted closers; full rack and pinion type with steel spring and non-freezing hydraulic fluid.

1. Adjustability: Funish controls for regulating closing, latching, speeds, and back checking.
2. Arms: Type to suit individual condition; parallel-arm closers at reverse bevel doors where doors swing full 180 degrees.
3. Location: Mount closers on inside of exterior doors, room side of interior doors typical; mount on pull side of other doors.
4. Operating Pressure: Maximum operation pressure as follows:
   a. Inteior Doors: Maximum 5 pounds
   b. Exterior Doors: Maximum 8 pounds

F. Push/Pull, Manual Bolts, Protection Plates, Gaskets, Thresholds and Trim: Furnish as indicated in Schedule, with accessories as required for complete operational door installations.

1. Push/Pulls: ANSI A156.6; push plates minimum 0.050-inch thick. Furnish straight type pulls with bolts to secure from opposite door face; furnish with minium 0.050-inch pull plates unless otherwise indicated.
2. Manual Constant Latching Bolts: ANSI A156.16 Grade 1 top and bottom fush bolts, with dust-proof floor strike, unless otherwise noted.
3. Kick Plates: ANSI A156.6 metal; height indicated in Schedule by 1-inch less than door width; minimum 0.050-inch thick.
4. Weatherstripping: Furnish continuous fire rated gaskets at top and sides of exterior doors.
5. Thresholds: Maximum 1/2-inch height
6. Wall Stops: ANSI A156.1, Grade 1, 2-1/2 inch wall stop, convex pad wall stop with no visible screws.
7. Floor Stops: ANSI A156.1, Grade 1, standard floor type with no visible screws; furnish with accessories as required for applications indicated.

2.3 ACCESSORIES

A. Lock Trim: Furnish levers with rose, escutcheon plate as selected from manufacturer's full range of levers and roses.

B. Through Bolts: Do not permit through bolts and grommet nuts on door faces in occupied areas unless no alternative is possible.

2.4 FINISHES

A. Finishes: ANSI A156.18; furnish following finishes except where otherwise indicated in the Schedule.

2.5 HARDWARE FOR HIGH VELOCITY/HURRICANE ZONES

A. All HVHZ hardware sets to meet NOAA data requirements. Refer to Florida approvals and Notice of Acceptance for approved hardware.

PART III - EXECUTION

3.1 EXAMINATION

A. Verify doors and frames are ready to receive door hardware and dimensions are as indicated on shop drawings.

3.2 INSTALLATION

A. Coordinate mounting heights with door and frame manufacturers. Use templates provided by hardware item manufacturer.

B. Mounting Heights from Finished Floor to Center Line of Hardware Item: Comply with manufacturer recommendations and applicable codes whre not otherwise indicated.

1. ANSI/NFPA 80 and Door Hardware Institute
2. Conform to ANSI A117.1 and ADA for positioning requirements for the handicapped.

C. Do not permit adjacent work to damage hardware or hardware finish.

D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant.

3.3 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.4 CLEANING AND PROTECTION

A. Protect all hardware stored on site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish and provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Owner occupancy.

END OF SECTION C08710

SECTION - C08800: GLAZING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes glazing for the following products and applications, including those specified in other Sections where glazing requirements are specified by reference to this Section:

1. Windows.
2. Doors.
3. Storefront framing.
4. Glazed entrances.

1.2 SUBMITTALS

A. Submit under the provisions of SECTION C01300.

1.3 QUALITY ASSURANCE

A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below, unless more stringent requirements are indicated. Refer to these publications for glazing terms not otherwise defined in this Section or in referenced standards.

1. GANA Publications: GANA's "Laminated Glazing Reference Manual" and GANA's "Glazing Manual."
2. IGMA Publication for Insulating Glass: SIGMA TM-3000, "North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use."

B. Safety Glazing Labeling: Where safety glazing labeling is indicated, permanently mark glazing with certification label of the SGCC or the manufacturer. Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.

C. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of IGCC.

PART 2 - PRODUCTS

2.1 GLASS PRODUCTS, GENERAL

A. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass lites in thicknesses as needed to comply with requirements indicated.

B. Strength: Where float glass is indicated, provide annealed float glass, Kind HS heat-treated float glass, or Kind FT heat-treated float glass. Where heat-strengthened glass is indicated, provide Kind HS heat-treated float glass or Kind FT heat-treated float glass. Where fully tempered glass is indicated, provide Kind FT heat-treated float glass.

C. Windborne-Debris-Impact Resistance: Provide exterior glazing that passes basic-protection testing requirements in ASTM E 1996 for Wind Zone when tested according to ASTM E 1886. Test specimens shall be no smaller in width and length than glazing indicated for use on the Project and shall be installed in same manner as glazing indicated for use on the Project.

1. Large-Missile Test: For glazing located within 30 feet (9.1 m) of grade.
2. Small-Missile Test: For glazing located more than 30 feet (9.1 m) above grade.

D. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:

1. U-Factors: Center-of-glazing values, according to NFRC 100 and based on LBL's WINDOW 5.2 computer program, expressed as Btu/sq. ft. x h x deg F (W/sq. m x K).
2. Solar Heat-Gain Coefficient and Visible Transmittance: Center-of-glazing values, according to NFRC 200 and based on LBL's WINDOW 5.2 computer program.
3. Visible Reflectance: Center-of-glazing values, according to NFRC 300.

2.2 GLASS PRODUCTS

A. Float Glass: ASTM C 1036, Type I, Quality-Q3, Class I (clear) unless otherwise indicated.

B. Heat-Treated Float Glass: ASTM C 1048; Type I; Quality-Q3; Class I (clear) unless otherwise indicated; of kind and condition indicated.

C. Acid Etched Glass: ASTM C 1036, Type II, Class 1 (clear), Form 3; Quality-Q6, Finish F1 (etched one side).

2.3 LAMINATED GLASS

A. Laminated Glass: ASTM C 1172, and complying with testing requirements in 16 CFR 1201 for Category II materials, and with other requirements specified. Use materials that have a proven record of no tendency to bubble, discolor, or lose physical and mechanical properties after fabrication and installation.

1. Construction: Laminate glass with polyvinyl butyral interlayer to comply with interlayer manufacturer's written recommendations.
2. Interlayer Thickness: Provide thickness not less than that indicated and as needed to comply with requirements.
3. Interlayer Color: Clear unless otherwise indicated.

B. Windborne-Debris-Impact-Resistant Laminated Glass: ASTM C 1172, and complying with testing requirements in 16 CFR 1201 for Category II materials, with "Windborne-Debris-Impact Resistance" Paragraph in "Glass Products, General" Article, and with other requirements specified. Use materials that have a proven record of no tendency to bubble, discolor, or lose physical and mechanical properties after fabrication and installation.

1. Construction: Laminate glass with[one of] the following to comply with interlayer manufacturer's written recommendations:
   a. Polyvinyl butyral interlayer.
2. Interlayer Thickness: Provide thickness not less than that indicated and as needed to comply with requirements.
3. Interlayer Color: Clear unless otherwise indicated.

2.4 INSULATING GLASS

A. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified according to ASTM E 2190, and complying with other requirements specified.

1. Sealing System: Dual seal.
2. Spacer: Manufacturer's standard spacer material and construction.

2.5 GLAZING GASKETS

A. Dense Compression Gaskets: Molded or extruded gaskets of profile and hardness required to maintain watertight seal, made from one of the following:

1. Neoprene complying with ASTM C 864.
2. EPDM complying with ASTM C 864.
3. Silicone complying with ASTM C 1115.
4 Thermoplastic polyolefin rubber complying with ASTM C 1115.

2.6 GLAZING SEALANTS

A. General:

1. Compatibility: Provide glazing sealants that are compatible with one another and with other materials they will contact, including glass products, seals of insulating-glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
2. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.
3. Colors of Exposed Glazing Sealants: As indicated by manufacturer's designations.

B. Glazing Sealant: Neutral-curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Class 100/50, Use NT.

2.7 GLAZING TAPES

A. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based, 100 percent solids elastomeric tape; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass manufacturers for application indicated; and complying with ASTM C 1281 and AAMA 800 for products indicated below:

1. AAMA 804.3 tape, where indicated.

B. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; and complying with AAMA 800 for the following types:

1. AAMA 810.1, Type 1, for glazing applications in which tape acts as the primary sealant.
2 AAMA 810.1, Type 2, for glazing applications in which tape is used in combination with a full bead of liquid sealant.

2.8 MISCELLANEOUS GLAZING MATERIALS

A. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.

B. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5.

C. Spacers: Elastomeric blocks or continuous extrusions of hardness required by glass manufacturer to maintain glass lites in place for installation indicated.

D. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side walking).

2.9 MONOLITHIC-GLASS TYPES

A. Glass Type G-1: Clear fully tempered float glass.

1. Thickness: 1/4 inch (6.0 mm).
2. Provide safety glazing labeling.

B. Glass Type G-11: Clear fully tempered float glass.

1. Thickness: 1/2 inch (13.0 mm).
2. Provide safety glazing labeling.

2.10 LAMINATED-GLASS TYPES

A. Glass Type G-3: Clear laminated glass with two plies of fully tempered float glass.

1. Thickness of Each Glass Ply: 1/8 inch (6.0 mm).
2. Interlayer Thickness: 0.030 inch (0.76 mm).
3. Provide safety glazing labeling.

2.11 INSULATING-GLASS TYPES

A. Glass Type GL-21: Low-e-coated, clear insulating glass.

1. Overall Unit Thickness: 1 inch (25 mm).
2. Thickness of Each Glass Lite: 1/4 inch (12.0 mm).
3. Outdoor Lite: Fully tempered float glass.
4. Interspace Content: Air.
5. Indoor Lite: Fully tempered float glass.
6. Low-E Coating: Pyrolytic on second surface.
7. Visible Light Transmittance: 54 percent minimum.
8. Winter Nighttime U-Factor: 0.29 maximum.
9. Summer Daytime U-Factor: 0.27 maximum.
10 Solar Heat Gain Coefficient: 0.28 maximum.
.
11 Provide safety glazing labeling.
.

B. Glass Type GL-31: Low-e-coated, clear insulating glass.

1. Overall Unit Thickness: 1 inch (25 mm).
2. Thickness of Each Glass Lite: 1/4 inch (12.0 mm).
3. Outdoor Lite: Fully tempered float glass.
4. Interspace Content: Air.
5. Indoor Lite: Fully tempered float glass.
6. Low-E Coating: Pyrolytic on second surface.
7. Acid Etching: Opaque on third surface.
8. Visible Light Transmittance: 54 percent minimum.
9. Winter Nighttime U-Factor: 0.29 maximum.
10 Summer Daytime U-Factor: 0.27 maximum.
.
11 Solar Heat Gain Coefficient: 0.28 maximum.
.
12 Provide safety glazing labeling.
.

PART 3 - EXECUTION

3.1 GLAZING, GENERAL

A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.

B. Adjust glazing channel dimensions as required by Project conditions during installation to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.

C. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass is glass with edge damage or other imperfections that, when installed, could weaken glass and impair performance and appearance.

D. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.

E. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.

F. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.

G. Provide spacers for glass lites where length plus width is larger than 50 inches (1270 mm).

H. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.

3.2 TAPE GLAZING

A. Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly above sightline of stops.

B. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.

C. Cover vertical framing joints by applying tapes to heads and sills first and then to jambs. Cover horizontal framing joints by applying tapes to jambs and then to heads and sills.

D. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.

E. Center glass lites in openings on setting blocks and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings.

3.3 GASKET GLAZING (DRY)

A. Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.

B. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.

C. Installation with Drive-in Wedge Gaskets: Center glass lites in openings on setting blocks and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.

D. Installation with Pressure-Glazing Stops: Center glass lites in openings on setting blocks and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.

E. Install gaskets so they protrude past face of glazing stops.

3.4 SEALANT GLAZING (WET)

A. Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.

B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.

C. Tool exposed surfaces of sealants to provide a substantial wash away from glass.

3.5 CLEANING AND PROTECTION

A. Protect exterior glass from damage immediately after installation by attaching crossed streamers to framing held away from glass. Do not apply markers to glass surface. Remove nonpermanent labels and clean surfaces.

B. Protect glass from contact with contaminating substances resulting from construction operations. If, despite such protection, contaminating substances do come into contact with glass, remove substances immediately as recommended in writing by glass manufacturer.

C. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains; remove as recommended in writing by glass manufacturer.

D. Remove and replace glass that is broken, chipped, cracked, or abraded or that is damaged from natural causes, accidents, and vandalism, during construction period.

END OF SECTION 088000

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FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT

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SHEET
SPECIFICATIONS

SHEET NUMBER
A-908

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DIVISION 9 - FINISHES

SECTION - C09111: NON-LOAD-BEARING STEEL FRAMING

PART I - GENERAL

1.1 SUMMARY
A. This Section includes non-load-bearing steel framing members for the following applications:
1. Interior framing systems (e.g., supports for partition walls, framed soffits, furring, etc.).
2. Interior suspension systems (e.g., supports for ceilings, suspended soffits, etc.).
B. This section will be applicable depending on the construction type shown on the drawings.

1.2 QUALITY ASSURANCE
A. Fire-Test-Response Characteristics: Provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by a testing and inspection agency.

PART II - PRODUCTS

2.1 NON-LOAD-BEARING STEEL FRAMING, GENERAL
A. Framing Members, General: Comply with ASTM C 754 for conditions indicated.
1. Steel Sheet Components: Comply with ASTM C 645 requirements for metal, unless otherwise indicated.
2. Protective Coating: ASTM A 653/A 653M, G90 (Z275).

2.2 SUSPENSION SYSTEM COMPONENTS
A. Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.0625-inch-(1.59-mm-) diameter wire, or double strand of 0.0475-inch- (1.21-mm-) diameter wire.
B. Wire Hangers: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.162-inch (4.12-mm) diameter.
C. Grid Suspension System for Ceilings: ASTM C 645, direct-hung system composed of main beams and cross-furring members that interlock.
1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
a. Armstrong World Industries, Inc.; Drywall Grid Systems.
b. Chicago Metallic Corporation; Drywall Furring System.
c. USG Corporation; Drywall Suspension System.

2.3 STEEL FRAMING FOR FRAMED ASSEMBLIES
A. Manufacturers:
1. Dietrick Metal Framing, Chester, OH, 45069
2. Substitutions shall be accepted per SECTION C01030

B. Steel Studs and Runners: ASTM C 645.
1. Minimum Base-Metal Thickness: 0.0312 inch (0.79 mm) As well as, as indicated on drawings.
2. Depth: As indicated on Drawings.
C. Slip-Type Head Joints: Where indicated, provide the following:
1. Deflection Track: Steel sheet top runner manufactured to prevent cracking of finishes applied to interior partition framing resulting from deflection of structure above; in thickness not less than indicated for studs and in width to accommodate depth of studs.

PART III - EXECUTION

3.1 INSTALLATION, GENERAL
A. Installation Standard: ASTM C 754, except comply with framing sizes and spacing indicated.
1. Gypsum Board Assemblies: Also comply with requirements in ASTM C 840 that apply to framing installation.

3.2 INSTALLING SUSPENSION SYSTEMS
A. Isolate suspension systems from building structure where they abut or are penetrated by building structure to prevent transfer of loading imposed by structural movement.
B. Suspend hangers from building structure as follows:
1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structural or suspension system.
a. Splay hangers only where required to miss obstructions and offset resulting horizontal forces by bracing, countersplaying, or other equally effective means.
2. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with locations of hangers required to support standard suspension system members, install supplemental suspension members and hangers in the form of trapezes or equivalent devices.
3. Do not attach hangers to steel roof deck.
4. Do not connect or suspend steel framing from ducts, pipes, or conduit.
5. Do not attach hangers to exhaust hoods.
C. Seismic Bracing: Sway-brace suspension systems with hangers used for support.
D. Grid Suspension Systems: Attach perimeter wall track or angle where grid suspension systems meet vertical surfaces. Mechanically join main beam and cross-furring members to each other and butt-cut to fit into wall track.
E. Installation Tolerances: Install suspension systems that are level to within 1/8 inch in 12 feet (3 mm in 3.6 m) measured lengthwise on each member that will receive finishes and transversely between parallel members that will receive finishes.

3.3 INSTALLING FRAMED ASSEMBLIES
A. Where studs are installed directly against exterior masonry walls or dissimilar metals at exterior walls, install isolation strip between studs and exterior wall.
B. Install studs so flanges within framing system point in same direction.
1. Space studs as follows:
a. As indicated on drawings.
C. Install tracks (runners) at floors and overhead supports. Extend framing full height to structural supports or substrates above suspended ceilings, except where partitions are indicated to terminate at suspended ceilings. Continue framing around ducts penetrating partitions above ceiling.
1. Slip-Type Head Joints: Where framing extends to overhead structural supports, install to produce joints at tops of framing systems that prevent axial loading of finished assemblies.
2. Door Openings: Screw vertical studs at jambs to jamb anchor clips on door frames; install runner track section (for cripple studs) at head and secure to jamb studs.
a. Install two studs at each jamb, unless otherwise indicated.
b. Install cripple studs at head adjacent to each jamb stud, with a minimum 1/2-inch (12.7-mm) clearance from jamb stud to allow for installation of control joint in finished assembly.
c. Extend jamb studs through suspended ceilings and attach to underside of overhead structure.
3. Other Framed Openings: Frame openings other than door openings the same as required for door openings, unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.
4. Fire-Resistance-Rated Partitions: Install framing to comply with fire-resistance-rated assembly indicated and support closures and to make partitions continuous from floor to underside of solid structure.
a. Firestop Track: Where indicated, install to maintain continuity of fire-resistance-rated assembly indicated.
D. Direct Furring:
1. Screw to wood framing.
E. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch (3 mm) from the plane formed by faces of adjacent framing.

END OF SECTION C09111

SECTION - C09250: GYPSUM BOARD

PART I - GENERAL

1.1 SUMMARY
A. This Section includes the following:
1. Interior gypsum board.
2. Tile backing panels.

1.2 RELATED SECTIONS
A. Building Insulation: SECTION C07210

1.3 QUALITY ASSURANCE
A. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by an independent testing agency.

PART II - PRODUCTS

2.1 INTERIOR GYPSUM BOARD
A. General: Complying with ASTM C 36/C 36M or ASTM C 1396/C 1396M, as applicable to type of gypsum board indicated and whichever is more stringent.
1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
a. National Gypsum Company.
b. USG Corporation.
B. Standard Interior:
1. Thickness: 1/2 inch (12 mm), unless otherwise noted.
2. Long Edges: Tapered.
C. Type X:
1. Thickness: 5/8 inch (15.9 mm), unless otherwise noted.
2. Long Edges: Tapered.
D. Flexible Type: Manufactured to bend to fit radii and to be more flexible than standard regular-type gypsum board of same thickness.
1. Thickness: 1/2 inch (12 mm), unless otherwise noted.
2. Long Edges: Tapered.
E. Ceiling Type: Manufactured to have more sag resistance than regular-type gypsum board.
1. Thickness: 5/8 inch (15.9 mm), unless otherwise noted.
2. Long Edges: Tapered.

2.2 TILE BACKING PANELS
A. Water-Resistant Gypsum Backing Board: ASTM C 630/C 630M or ASTM C 1396/C 1396M.
1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
a. National Gypsum Company.
b. USG Corporation.
2. Core: 5/8 inch (15.9 mm), Type X.
B. Cementitious Backer Units: ANSI A118.9.
1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
a. USG Corporation; DUROCK Cement Board.
2. Thickness: 1/2 inch (15.9 mm).

2.3 TRIM ACCESSORIES
A. Interior Trim: ASTM C 1047.
1. Material: Galvanized.
2. Shapes:
a. Cornerbead.
b. LC-Bead: J-shaped; exposed long flange receives joint compound.
c. Curved-Edge Cornerbead: With notched or flexible flanges.

2.4 JOINT TREATMENT MATERIALS
A. General: Comply with ASTM C 475/C 475M.
B. Joint Tape:
1. Interior Gypsum Wallboard: Paper.
2. Tile Backing Panels: As recommended by panel manufacturer.
C. Joint Compound for Interior Gypsum Wallboard: For each coat use formulation that is compatible with other compounds applied on previous or for successive coats.
1. Prefilling: At open joints, rounded or beveled panel edges, and damaged surface areas, use setting-type taping compound.
2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping compound.
3. Fill Coat: For second coat, use drying-type, all-purpose compound.
4. Finish Coat: For third coat, use drying-type, all-purpose compound.
D. Joint Compound for Tile Backing Panels:
1. Water-Resistant Gypsum Backing Board: Use setting-type taping compound and setting-type, sandable topping compound.
2. Cementitious Backer Units: As recommended by backer unit manufacturer.

2.5 AUXILIARY MATERIALS
A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written recommendations.
B. Steel Drill Screws: ASTM C 1002, unless otherwise indicated.
1. Use screws complying with ASTM C 954 for fastening panels to steel members from 0.033 to 0.112 inch (0.84 to 2.84 mm) thick.
2. For fastening cementitious backer units, use screws of type and size recommended by panel manufacturer.
C. Glue: Liquid Nails drywall adhesive or equal, installed per manufacturer instructions.

PART III - EXECUTION

3.1 APPLYING AND FINISHING PANELS, GENERAL
A. Comply with ASTM C 840.
B. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.
C. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments, except floors. Provide 1/4- to 1/2-inch- (6.4- to 12.7-mm-) wide spaces at these locations, and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.
D. Wood Framing: Install gypsum panels over wood framing, with floating internal corner construction. Do not attach gypsum panels across the flat grain of wide-dimension lumber, including floor joists and headers. Float gypsum panels over these members, or provide control joints to counteract wood shrinkage.

3.2 APPLYING INTERIOR GYPSUM BOARD
A. Install interior gypsum board in the following locations:
1. Type X: As indicated on Drawings.
2. Flexible Type: Apply at curved assemblies.
3. Ceiling Type: Ceiling surfaces.
4. Moisture- and Mold-Resistant Type: As indicated on Drawings.

3.3 APPLYING TILE BACKING PANELS
A. Water-Resistant Gypsum Backing Board: Install at sinks, toilets, mop sinks and where indicated. Install with 1/4-inch (6.4-mm) gap where panels abut other construction or penetrations.
B. Cementitious Backer Units: As indicated on drawings.
C. Where tile backing panels abut other types of panels in same plane, shim surfaces to produce a uniform plane across panel surfaces.

3.4 INSTALLING TRIM ACCESSORIES
A. General: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
B. Interior Trim: Install in the following locations:
1. Cornerbead: Use at outside corners, unless otherwise indicated.
2. LC-Bead: Use at exposed panel edges.
3. Curved-Edge Cornerbead: Use at curved openings.

3.5 FINISHING GYPSUM BOARD
A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.
B. Prefill open joints, rounded or beveled edges, and damaged surface areas.
C. Apply joint tape over gypsum board joints, except those with trim having flanges not intended for tape.
D. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C 840:
1. Level 1: Ceiling plenum areas, concealed areas, and where indicated.
2. Level 2: N/A
3. Level 3: Panels that are substrate for tile and FRP, & all other panel locations not indicated in this section.
4. Level 4: At panel surfaces that will be exposed to view in public areas.
E. Cementitious Backer Units: Finish according to manufacturer's written instructions.

3.6 PROTECTION
A. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.
B. Remove and replace panels that are wet, moisture damaged, and mold damaged.
1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION C09250

SECTION - C09310: CERAMIC & GLASS TILE

PART I - GENERAL

1.1 SECTION INCLUDES
A. Ceramic tile for walls.
B. Glass Tile for walls.
C. Subway Tile for walls.
D. Red Penny Tile for walls.
E. Porcelain Tile for floors.
F. Base Tile for walls.
G. Setting adhesives and grout.

1.2 RELATED SECTIONS
A. Cast-In-Place Concrete: SECTION C03300
B. Gypsum Board Systems: SECTION C09250

1.3 REFERENCE PUBLICATIONS
A. Tile Council of America (TCA): Most Current "Handbook for Ceramic Tile Installation"
B. American National Standards Institute (ANSI)

PART II - PRODUCTS

2.1 MANUFACTURER
A. The drawings were prepared and this specification written on the basis of using the products of specific manufacturers.

2.2 MATERIALS
A. Ceramic Tile, Glass Tile, Subway Tile, Porcelain Tile and Base Tile: Refer to Finish Schedule on Drawings for manufacturer, color, size, pattern and grout color. Provide necessary caps, stops, coves, returns, trimmers and other shapes as required for a complete installation.
B. Cementitious Bond Coat (Thin-set):
1. Floors: Mapei, "Ultraflex 2" Polymer-modified thin set mortar. Meets or exceeds ANSI A118.4 and ANSI A118.11.
2. Base and floors: As recommended by TCA for the particular conditions in which the tile is being set. Refer to Interior Finish Schedule, Floor Finish Plan for coordination.
3. For Glass Tile: As recommended by manufacturer.
C. Interior Grout:
1. Latex Portland cement grout conforming to ANSI A118.6; color (pigment additive) - drawings.
2. Floors - Acid resistant grout, color (pigment additive) as shown on drawings.

PART III - EXECUTION

3.1 INSPECTION
A. Examine all surfaces receiving tile for any defects that would impair installation and if any are found, make such corrections. Contractor shall apply leveling coat of dry-set mortar over wall and floor surfaces which vary more than 1/8-inch in 10 feet.
B. Installation constitutes acceptance of the substrate.

3.2 INSTALLATION
A. Standard practice will be expected and accepted; poor or sloppy workmanship will be rejected.
B. Interior: Conform to manufacturer's printed specifications and instructions, and to "thin setting" and "grout joints" instructions and sketches contained in "Handbook for Ceramic Tile Installation" for each condition encountered on the job.

END OF SECTION C09310

SECTION - C09330: QUARRY TILE

PART I - GENERAL

1.1 SECTION INCLUDES
A. Quarry tile floor and base
B. Setting adhesives and grout
C. Waterproofing Membrane

1.2 RELATED SECTIONS
A. Cast-In-Place Concrete: SECTION C03300

1.3 REFERENCE PUBLICATIONS
A. Tile Council of America (TCA): Most current "Handbook for Ceramic Tile Installation"
B. American National Standards Institute (ANSI)

PART II - PRODUCTS

2.1 MANUFACTURER
A. The drawings were prepared and this specification written on the basis of using the products of specific manufacturers.

2.2 MATERIALS
A. Quarry Tile: See Finish Schedule.
B. Cementitious Bond Coat (Thin-Set): Mapei, "Ultraflex 2" Polymer-modified thin set mortar. Meets or exceeds ANSI A118.4 and ANSI A118.11.
C. Grout: Mapei, "Kerapoxy IEG CQ", epoxy grout; conforming to ANSI A118-3. Sanded, see drawings for color.
D. Waterproofing
1. Mapelastic Aquadefense as manufactured by Mapei. 40 mils thickness.

PART III - EXECUTION

3.1 INSPECTIONS
A. Examine all surfaces receiving quarry tile for any defects that would impair installation and if any are found, make such corrections.
B. Installation constitutes acceptance of the substrate.

3.2 INSTALLATION
A. Conform to tile manufacturers' printed specifications and instructions and to "cement mortar" instructions and sketches contained in "Handbook for Ceramic Tile Installation" for each condition encountered on the job. In general, standard practice will be expected and accepted and poor or sloppy workmanship will be rejected. Surface to receive tile must be free of sealers, curing compounds, coatings, oil, dust and must by dry.
B. Waterproofing Membrane: Conform to manufacturer's printed specifications and instructions.

3.3 CLEAN-UP
A. Upon completion of work of this section remove related debris from premises.

END OF SECTION C09330

SECTION - C09510: ACOUSTICAL PANEL CEILINGS

PART I - GENERAL

1.1 SUMMARY
A. This section includes ceilings consisting of acoustical panels and exposed suspension systems.

1.2 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section; Base on details shown on the Drawings. Submit manufacturer's technical data for each type of acoustical ceiling unit and suspension system required.

1.3 RELATED SECTIONS
A. Gypsum Board: SECTION C09250
B. Division 15 - Mechanical Work
C. Division 16 - Electrical Work

1.4 QUALITY ASSURANCE
A. Single-Source: Provide acoustical panel units and grid components by a single manufacturer.
B. Fire Performance: Identify acoustical ceiling components with appropriate markings of applicable testing and inspection organization.
1. Surface Burning Characteristics: Tested per ASTM E 84 and complying with ASTM E 1264 for Class A Products.
a. Flame Spread: 25 or less
b. Smoke Developed: 50 or Less

1.5 DELIVERY, STORAGE AND HANDLING
A. Deliver units to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination and other causes.
B. Before installing units, permit them to reach toom temperature and stabilized moisture content.
C. Handle acoustical ceiling units carefully to avoid chipping edges or damaged units in any way.

PART II - PRODUCTS

2.1 MANUFACTURERS
A. Lay-In Ceiling Tiles (Dining/Serving): CERTAINTEED CORPORATION, P.O. Box 860, Valley Forge PA 19482, (800) 233-8990: Refer to drawings
B. Lay-In Ceiling Tiles (Kitchen/Back-of-House): CERTAINTEED CORPORATION, P.O. Box 860, Valley Forge PA 19482, (800) 233-8990: Refer to drawings.
C. Metal Suspension System: CERTAINTEED CORPORATION, P.O. Box 860, Valley Forge PA 19482, (800) 233-8990: Refer to drawings.
1. Attachment Devices: Size for five times design load indicated in ASTM C 635, Table 1, Direct Hung.
2. Wire Hangers and Ties; ASTM A 641, Class 1 zinc coating, soft temper, pre-stretched, with a yield stress load of at least three times design load, but not less than 12 guage.
3. Edge Molding and Trim: Manufacturer's standard moldings for edge and penetrations.

PART III - EXECUTION

3.1 PREPARATION
A. Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of each ceiling. Avoid use of less than half width units at borders, and comply with reflected ceiling plans. Coordinate panel layout with mechanical and electrical fixtures.

3.2 INSTALLATION
A. Install suspension system and acoustical panel assemblies to comply with written publications from the manufacturer.
B. Suspend main beam from overhead construction with hanger wires plumb and free. Space hangers not more than 48-inches on center along the length of the main runner. Follow appropriate guidelines for earthquake zones.
C. Install edge molding and trim at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical panels.
D. Install acoustical panels with undamaged edges and fitted accurately into suspension system runners and edge moldings. Scribe and cut panels at borders and penetrations to provide a neat, precise fit.

3.3 ADJUSTING AND CLEANING
A. Replace damaged and broken panels.
B. Clean exposed surfaces. Cleaning: Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage. Replace components that cannot be successfully cleaned.

END OF SECTION C09510

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FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

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SHEET
SPECIFICATIONS

SHEET NUMBER
A-909

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SECTION - C09655: VINYL WALL BASE

PART I - GENERAL

1.1 SUMMARY
A. This section includes vinyl wall base and adhesive.

PART II - PRODUCTS

2.1 MANUFACTURER
A. Johnsonite Inc., Chagrin Falls, OH 44023; (800) 899-8916

2.2 Wall Base
A. Coved base complying with FS SS-40, Type 2. Refer to the Finish Schedule.

2.3 ADHESIVES
A. Acrylic Cove Base Adhesive specifically formulated for rubber and vinyl wall base.
1 Johnsonite #960
2. Contributes to LEED Certification (E.Q. 4.1: Low-Emitting Materials: Adhesives and Sealants).
B. Contact Bond Adhesive specifically formulated for wall base at porous floor and non-porous locations.
1. Johnsonite #946
2. Contributes to LEED Certification (E.Q. 4.1: Low-Emitting Materials: Adhesives and Sealants).

PART III - EXECUTION

3.1 GENERAL
A. Install vinyl base according to manufacturer's written installation instructions. Apply base to walls, columns, permanent casework and cabinets. Install base in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned. Tightly adhere wall base to substrate throughout. Install pre-molded outside corners before installing straight pieces.
B. Apply three (3) bead of adhesive for entire length of base. Stay 1/4-inch away from top edge to prevent adhesive oozing. Apply clear silicone sealant to top edge. NO EXCEPTIONS.

END OF SECTION C09655

SECTION - C09770: REINFORCED WALL COVERINGS

PART I - GENERAL

1.1 SUMMARY
A. Section Includes: Prefinished polyester glass reinforced plastic sheets and adhered to unfinished gypsum wallboard. Standard FRP with textured surface.

1.2 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section. Submit sufficient manufacture's data to indicate compliance with these specifications including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

1.3 RELATED SECTIONS
A. Sealants and Caulks: SECTION C07920
B. Gypsum Board: SECTION C09250
C. Quarry Tile: SECTION C09330

1.4 QUALITY ASSURANCE
A. Fire Performance: Identify panel compentes with appropriate markings of applicabe testing and inspection organization.
1. Surface Burning Characteristics: Tested per ASTM E 84 and complying for Class C Products.
a. Flame Spread: 76 or less
b. Smoke Developed: 200 or less
B. Sanitary Standards: System components and finishes to comply with:
1. United States Department of Agricultural (USDA) requirements for food preparation facilities, incidental contact.
2. Food and Drug Administration (FDA) 1999 Food Code 6-101.11

1.5 WARRANTY
A. Furnish one year guarantee against defects in material and workmanship.

PART II - PRODUCTS

2.1 MANUFACTURERS
A. Back-of-House
1. Marlite; Dover, OH 44622
2. Glasteel; Moscow, TN 38057
3. Crane Composites; Channahon, IL 60410
B. Play Area
1. Koroseal; Fairlawn, OH 44333

2.2 PANELS
A. Fiberglass reinforced thermosetting polyester resin panel sheets complying with ASTM D5319. Back surface smooth, imperfections which do not affect functional properties are not cause for rejection.
B. Dimensions: 0.090-inches (thick) x 48-inches (wide) x 120-inches (high)
C. Back-of-House: Fiberglass reinforced thermosetting polyester resin panel sheets complying with ASTM D 5319.
1. Marlite - 'Standard FRP P199', Pebbled, Bright White
2. Stabilit America - 'Glasliiner FRP 1200', Pebbled, White
3. Carne Composites - 'Glasbord FRP', Pebbled, White

2.3 WALLCOVERING
A. Play Area: Rigid high-impact protective wallcovering.
B. Dimensions: 0.040-inches (thick) x 48-inches (wide) x 96-inches (high)
C. Color and Texture as indicated in the Finish Schedule.

2.4 MOLDINGS AND ACCESSORIES
A. Fiberglass Reinforced Panels: Provide extruded PVC Trim Profile, unless otherwise noted, as required for panels including but not limited to:
1. Inside Corner: length as required, color to match panel
2. Division: length as required, color to match panel
3. Edge: length as required, color to match panel
4. Outside Corner: F 560 Stainless Steel, length as required, finish No. 4 Satin
B. Wallcoverings: Accessory moldings by Koroseal to ensure accurate match of colors, dimension, and physical properties.

2.5 ADHESIVES
A. Fiberglass Reinforced Panels Adhesives shall meet or exceed:
1. Marlite C-551 FRP Adhesive. Contributes to LEED Certification (E.Q. 4.1: Low-Emitting Materials: Adhesives and Sealants).
B. Wallcoverings: Use adhesives provided by Koroseal.

PART III - EXECUTION

3.1 PREPARATION
A. Examine backup services to determine that corners are plumb and straight, surfaces are smooth, uniform, clean, and free from foreign matter, nails countersunk, joints and cracks filled flush and smooth with adjoining surface.
1. Verify that stud spacing does not exceed 24-inches on-center.
B. Repair defects prior to installation. Level wall surfaces to panel manufacturer's requirements. Remove protrusions and fill indentations.

3.2 INSTALLATION
A. Comply with manufacturer's recommended procedures and installation sequence.
B. Fiberglass Reinforced Panels:
1. Cut sheets to meet supports allowing 1/8- inch clearance for every 8 foot of panel.
2. Apply panels to board substrate, above base, vertically oriented with seams plumb and pattern aligned with adjoining panels.
3. Apply panel moldings to all panel edges using silicone sealant providing for required clearances.
a. All moldings must provide for a minimum 1/8- inch of panel expansion at joints and edges, to insure proper installation.
b. Apply sealant to all moldings, channels, and joints between the system and different materials to assure watertight installation.
C. Wallcovering:
1. Install wallcoverings per manufacturer's written instructions.
2. Install sheets with texture running in the same direction for a uniform appearance.

3.3 CLEANING
A. Remove excess sealant from panels and moldings. Wipe panel down using a damp cloth and mild soap solution or cleaner.
B. Refer to manufacturer's specific cleaning recommendations. Do not use abrasive cleaners.

END OF SECTION C09770

SECTION - C09910: PAINTING

PART I - GENERAL

1.1 SECTION INCLUDES
A. Painting all exposed exterior and interior surfaces not specifically excluded herein.

1.2 RELATED SECTIONS
A. Finish Schedule as indicated on the Drawings
B. Unit Masonry Assemblies: SECTION C04810
C. Sealants and Caulking: SECTION C07920
D. Standard Steel Doors and Frames: SECTION C08110
E. Gypsum Board: SECTION C09250
F. Division 15 - Mechanical Work
G. Division 16 - Electrical Work

1.3 INTENT
A. Providing Owner selected finishes and colors for exposed surfaces as part of the Construction Contract. Contractor shall be responsible for field painting surfaces, including exposed mechanical and electrical equipment, piping, etc. "Exposed" shall mean visible from: ground level; floors and levels of construction of this contract; and floors and levels of buildings on adjacent properties.

1.4 QUALITY ASSURANCE
A. Qualifications of Workmen: Employ skilled workmen, experienced in the use of the specific product involved. Quality workmanship is required.
B. Approval of Manufacturer: Materials used shall be exactly as specified in quality. No claim by painting subcontractor to unsuitability or unavailability of any material specified, or his unwillingness to use same, or his inability to produce quality work with same, will be entertained.

1.5 SUBMITTALS
A. Paint Schedule: As soon as possible after Contract is signed, prepare and submit to Owner for acceptance an itemized PAINT SCHEDULE, listing the kinds and types of paints proposed for each and every application by name of manufacturer and brand name and color number of the paint for each application. This PAINT SCHEDULE submitted shall be similar in tentative paint listed contained hereinafter with no exceptions.

PART II - PRODUCTS

2.1 MANUFACTURER
A. Interior Painting: The Sherwin Williams Company, Cleveland, OH 44115. See National Accounts on the Drawings.

2.2 MATERIAL NOTICE
A. The use of paint products containing lead is prohibited.

2.3 MATERIALS
A. Paint List: Where any particular application is not mentioned in this list, Contractor shall figure on application of manufacturer's specification for application which is consistent with types and qualities listed herein.
1. Exterior Surfaces
a. Wood Trim
1) Prime Coat: Sherwin Williams All Surface Enamel Latex Primer
2) Intermediate: Sherwin Williams A-100 Exterior Acrylic Latex
3) Finish Coat: Sherwin Williams A-100 Exterior Acrylic Latex
b. Ferrous & Non-Ferrous Metals
1) Surface Prep: Hand Tool Cleaning Sherwin Williams S-W 14
2) Prime Coat: Sherwin Williams Kem Kromik Universal Metal Primer VOC
3) Intermediate: Sherwin Williams DTM Acrylic Gloss Coating
4) Finish Coat: Sherwin Williams DTM Acrylic Gloss Coating
c. Galvanized
1) Surface Prep: Galvanized Metal Sherwin Williams S-W 10
2) Prime Coat: Sherwin Williams Pro-Cryl Universal Acrylic Primer
3) Intermediate: Sherwin Williams DTM Acrylic Gloss Coating
4) Finish Coat: Sherwin Williams DTM Acrylic Gloss Coating
d. Concrete
1) Surface Prep: Sherwin Williams Concrete S-W 5
2) Prime Coat: Sherwin Williams Loxon Exterior Acrylic Masonry Primer
3) Intermediate: Sherwin Williams A-100 Exterior Satin Latex
4) Finish Coat: Sherwin Williams A-100 Exterior Satin Latex
e. Unit Masonry
1) Surface Prep: Block (Cinder and Concrete) Sherwin Williams S-W 3
2) Prime Coat: Sherwin Williams PM BLK FLR
3) Intermediate: Sherwin Williams A-100 Exterior Acrylic Latex
4) Finish Coat: Sherwin Williams A-100 Exterior Acrylic Latex
2. Interior Surfaces:
a. Wood (painted):
1) Surface Prep: Wood - Interior Sherwin Williams S-W 24
2) Prime Coat: Sherwin Williams PrepRite Classic Interior Latex Primer
3) Intermediate: Sherwin Williams ProMar 200 Zero VOC Interior Latex
4) Finish Coat: Sherwin Williams ProMar 200 Zero VOC Interior Latex
b. Gypsum Board:
1) Surface Prep: Gypsum Board - Sherwin Williams Interior & Exterior S-W 8
2) Prime Coat: Sherwin Williams ProMar 200 Zero VOC Interior Latex Wall Primer
3) Intermediate: Sherwin Williams ProMar 200 Zero VOC Interior Latex sheen per Finish Schedule
4) Finish Coat: Sherwin Williams ProMar 200 Zero VOC Interior Latex sheen per Finish Schedule
c. Ferrous Metals (exposed) include ceiling diffusers/grilles
1) Surface Prep: Hand Tool Cleaning Sherwin Williams S-W 14
2) Prime Coat: Sherwin Williams Kem Kromik Universal Metal Primer VOC
3) Intermediate: Sherwin Williams PorMar 200 Zero VOC Interior Latex Egg Shell, UNO
4) Finish Coat: Sherwin Williams ProMar 200 Zero VOC Interior Latex Egg Shell, UNO
d. Open Ceilings (Gypsum Board)
1) Prime Coat: Sherwin Williams ProMar 200 Zero VOC Interior Latex Primer
2) Intermediate: Sherwin Williams 200 Zero VOC Interior Latex Flat
3) Finish Coat: Sherwin Williams 200 Zero VOC Interior Latex Flat
e. Open Ceilings (Wood Trusses)
1) Prime Coat: Sherwin Williams 200 Zero VOC Interior Latex Primer
2) Intermediate: Sherwin Williams 200 Zero VOC Interior Latex Flat
3) Finish Coat: Sherwin Williams 200 Zero VOC Interior Latex Flat
f. Open Ceilings / Galvanized Metal - Steel
1) Surface Prep: Hand Tool Cleaning Sherwin Williams S-W 14
2) Prime Coat: Sherwin Williams Pro-Cryl Universal Acrylic Primer
3) Intermediate: Sherwin Williams 200 Zero VOC Interior Latex Flat
4) Finish Coat: Sherwin Williams 200 Zero VOC Interior Latex Flat
B. Coverage: Coverage coats noted above are minimum requirements. Contractor shall provide additional coats as needed for complete coverage.
C. Colors: Colors (shown on the drawings) have been selected by the Owner, who reserves the right to select colors formulated by manufacturers other than those listed hereinbefore. Paint manufacturer shall match color(s) selected and provide color match sample(s) to Owner for acceptance.
D. General Contractor to provide (1) one extra gallon of paint for each color.

2.4 SCAFFOLDING, DROP CLOTHS, ETC.
A. Provide in place, move as necessary during the course of the work, and finally remove from the premises when work is completed, or when directed, scaffolding, staging, ladders, plastic sheeting or other form of drop cloths, masking tapes, storage lockers for paint materials and mixing equipment as needed for proper and efficient performance of the work.

2.5 MIXES
A. Paint shall be ready-mixed unless otherwise accepted by the Owner, and shall be thinned or reduced only in accordance with manufacturer's instruction.

PART III - EXECUTION

3.1 CONDITIONS
A. Apply water-base paints only when temperature of surfaces to be coated and surrounding air temperatures are between 50 degrees F (10 C), unless otherwise permitted by manufacturer's instructions.
B. Apply solvent-thinned paints only when temperature of surfaces to be painted and surrounding air temperatures are between 45 degrees F (7 C) and 95 degrees F (35 C), unless otherwise permitted by paint manufacturer's printed instructions.
C. Do not apply paint in snow, rain, fog or mist; or when relative humidity exceeds 85% or to damp or wet surfaces; unless otherwise permitted by paint manufacturer's printed instructions.
D. All application of coatings shall be done under adequate illumination.

3.2 PREPARATION
A. Remove dirt, rust, scale, splinters, grease and oil from surfaces to be painted. Prepare surfaces prior to painting as specified by paint material manufacturer. Remove prefinished hardware, electrical devices, etc. before painting. Replace such items after finishes are completely dry. No exterior or interior painting shall be done until surfaces are thoroughly dry. Painting contractor is responsible for defective work from any cause, including unsuitable and improperly prepared surfaces.

3.3 PAINTING
A. General: Apply paint in accord with manufacturer's instructions. Use techniques and applications best suited for type of material being applied. Spread or flow materials on smoothly, with proper film thickness and without runs, sags, skips or other defects. Cut paint in neatly around glass and other edges. Mix, stir, blend, etc. in strict accord with manufacturer's instructions Specific attention is called to stirring time intervals for stains.
B. Wash metal surfaces with mineral spirits to remove dirt, oil or grease before applying primer. Remove rust or scale by wire brushing or sanding cleaning before painting. Marred shop coats of paint shall be cleaned and touched up with primer, prior to finish coats.
C. Galvanized metal surfaces shall be given a crystalline zinc phosphate pre-treatment. Two products for this purpose are Lithoform made by American Chemical Paint Co., Ambler, Pa., and Galvaprep #5, made by Neilson Chemical Co., Detroit, Michigan.
D. Masonry surfaces shall be cleaned of any soil, efflorescence, excess mortar, etc. If wet cleaning is used, allow adequate time for drying to allow for uniform penetration. All cracks shall be pointed or caulked. All voids in masonry joints shall be filled. Neutralize acid washed surfaces. Moisture content of surface shall not exceed 15% in order to apply sealer. Allow new surfaces to age four weeks prior to application of sealer.
E. Interior trim and cabinetry shall be back-primed with wood primer.
F. Remove hardware, hardware accessories, machined surfaces, plates, lighting fixtures, and similar items in place and not to be finish-painted, or provide surface applied protection prior to surface preparation and painting operations. Remove, if necessary, for completing painting of items and adjacent surfaces. Following completion of painting of each space or area, reinstall removed items.
G. Scratches, cracks and abrasions on surfaces to be painted shall be filled with a spackling compound flush with adjoining surface. When dry, sand smooth and seal before application of priming coat.
H. Enamel applied to wood or metal shall be sanded with fine sandpaper and then cleaned between coats to produce an even, smooth finish.
I. Metal door frames shall be made smooth by filling and sanding before finishing. Touch-up factory prime coat before applying first coat.
J. Prepare and stain interior wood siding as scheduled prior to installation.
K. Drying Time: Unless otherwise specified, exterior paints shall dry for 48-hours and interior paints for 24-hours between coats.
L. Sanding: Sand enamels and varnish lightly and dust between coats.
M. Acceptance:
1. Work is subject to acceptance by the Owner and any work not complying with these specifications shall be corrected to the satisfaction of the Owner.
2. Final coat of paint shall have visual evidence of hiding and uniform appearance.
3. Paint shall be evenly spread and smoothly flowed on without runs, sags, curtains or other evidence of poor application.
4. Spot painting will be allowed to correct soiled or damaged paint surfaces only when touch-up spot will blend into surrounding finish and is invisible to normal viewing. Otherwise, re-coat entire section to corners or visible stopping point.

3.4 PROTECTION AND CLEANING
A. Protect work, adjacent work, and materials, by suitable covering. Upon completion of work, remove paint and varnish spots from floors, glass and other surfaces.

3.5 CLEAN-UP
A. Upon completion of work of this section, remove related debris from the premises.

END OF SECTION C09910

DIVISION 10: SPECIALTIES

SECTION - C10155: PLASTIC LAMINATE TOILET COMPARTMENTS:

PART I - GENERAL

1.1 SECTION INCLUDES
A. Overhead braced toilet compartments and urinal screens.

1.2 REFERENCES
A. ASTM D 1037 - Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials; 1996a.
B. NEMA LD 3 - High Pressure Decorative Laminates; 1995.

PART II - PRODUCTS

2.1 MANUFACTURERS
A. Acceptable Manufacturers:
1. See National Accounts Schedule

2.2 MATERIALS
A. Doors, Panels, Horizontal Bracing, and Pilasters: Solid Phenolic core with decorative high pressure resin impregnated paper surface.
1. Color: As shown on drawings.
2. Wear Resistance: At least 400 percent more wear resistance than NEMA LD 3, general purpose type high pressure laminate.
3. Screw Pull-Out Resistance: 648 lb. (293 kg) perpendicular to surface, when tested in accordance with ASTM D 1037.
4. Edges: Black, polished and free of sharp edges.
5. Durability: Manufacturer's 15-year warranty against delamination and other defects.
6. Panel Thickness:
a. Doors and Panels: 3/4 inch (19 mm).
b. Pilasters: 3/4 inch (19 mm).
c. Horizontal Bracing: 3/4 inch (19 mm).
7. Height:
a. Pilasters: 85 inches (2159 mm).
b. Doors and Panels: 58 inches (1473 mm) to top.
c. Horizontal Bracing: 2 3/4 inches (69 mm).
B. Pilaster Mounting: Solid Phenolic core with decorative high pressure resin impregnated paper surface. Stainless steel shoe, 1.3 inch high, anchored to floor with two 3-1/4 inch Stud Anchors.
C. Headrail: Extruded aluminum, bright finish, with anti-grip design and wall mounting brackets.
D. Hardware: All hardware and fasteners shall be stainless steel set in Solid Phenolic core with decorative high pressure resin impregnated paper surface.
1. Panel and Pilaster Brackets: Cast or stamped Type 304 stainless steel brackets, with chrome plated shoulder and barrel nuts of vandal-proof one-way operation; attached to walls with screws and plastic expansion anchors.
2. Hinges: Self-closing heavy-duty stainless steel with nylon cams and pin assembly, and door home position adjustment by adjusting bottom hinge unit.
3. Door Latch: Slide latch, strike, and keeper, meeting ADA requirements with emergency access feature.
4. Door pulls: Accessible door pulls must meet ADA requirements.
5. Coat hook with bumper.

PART III - EXECUTION

3.1 INSTALLATION
A. Install in accordance with manufacturer's instructions.

END OF SECTION C10155

SECTION C10240 - TREILLAGE

PART I - GENERAL

1.1 DESCRIPTION
A. Light weight wall mounted trellis (screening) panels for vine growth and coverage.

1.2 RELATED SECTIONS
A. Unit Masonry Assemblies: SECTION C04810
B. Sealants and Caulking: SECTION C07920

1.3 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section, based on details on the drawings. Submit sufficient manufacturer's data to indicate compliance with these specifications.

1.4 SUBSTITUTIONS
A. Substitutions shall be considered in accordance with provisions of Section C01030.

1.5 QUALITY ASSURANCE
A. Manufacturer: Minimum 5-years experience manufacturing and supplying trellis (screening) structures of the type and style shown on the drawings.

PART II - PRODUCTS

2.1 MANUFACTURER
A. GREENsreen, Los Angeles, CA 90035

2.2 MATERIALS
A. Panels shall be rigid, three-dimensional welded wire grid fabricated 14-guage ASTM A641 galvanized steel wire.
B. Face Grid: Welded wires at each intersection to form a 2x2 inch face grid on both sides of panel.
C. Trusses: Face grids shall be separated by bent wire trusses spaced at 2-inch centers an welded to front and back face grids at each truss apex.
D. Length and Width: As indicated on the drawings
E. Thickness: 3-inches - verify with drawings
F. Tolerance: 1/8-inch in width and 1/4-inch in length
G. Welds: Weld trim to panels, all welds shall be ground smooth and suitable for painting.

2.3 ACCESSORIES
A. Trim: Trim pieces shall be fabricated from 20-guage ASTM A879 galvanized steel.
1. Edge Trim: 2-inch legs x thickness of panel x lengths as required
2. Flat Trim: 1-inch x length as required at center vertical intersections
3. Infill Panels: Support steel as required (by others). Verify locations required at Drive-Thru or where indicated on the drawings.
B. Clips and Fasteners: Provide manufacturer's standard types of clips and straps suitable for mounting conditions. Fabricated from ASTM A879 galvanized steel. Adjustable clips shall have a 1/4-inch diameter 18-8 stainless steel bolt, washer and nut.
C. Fasteners: Fasteners to masonry as shown on the drawings.

2.4 FINISHES
A. Components shall be factory finished after fabrication.
1. Pretreat (clean) components before priming with zinc-rich epoxy powder coat. Topcoat with polyester or polyester-urethane powder coat.
B. Salt Spray Resistance: Finish shall remain rust free with tested 1,680 hours per ASTM B117.
C. Color: As indicated on the drawings

PART III - EXECUTION

3.1 INSTALLATION
A. Install panels to maintain modular grid, plumb and square, centered within area designate.
B. Field cuts shall be at a minimum. Apply touch-up paint to edges when field cutting is required.
C. Fasteners shall meet all manufacturer's written requirements.
D. Repair bent or damaged panels. If panels cannot be repaired to satisfaction of the Architect, the panel shall be removed and replaced with a new panel.

3.2 CLEAN-UP
A. Upon completion of work of this section remove related debris from premises.

END OF SECTION C10240

SECTION - C10265: CORNER GUARDS

PART I - GENERAL

1.1 SECTION INCLUDES
A. Surface adhered corner guards as indicated on the drawings.

1.2 RELATED SECTIONS
A. Sealants and Caulks: SECTION C07920
B. Gypsum Board: SECTION C09250
Ceramic and Glass Tile: SECTION C09310

1.3 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section. Submit sufficient manufacture's data to indicate compliance with these specifications including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

1.4 QUALITY ASSURANCE
A. Fire Performance: Identify panel compentes with appropriate markings of applicabe testing and inspection organization.
1. Surface Burning Characteristics: Tested per ASTM E 84 and complying for Class C Products.
a. Flame Spread: 76 or less
b. Smoke Developed: 200 or less

PART II - PRODUCTS

2.1 MANUFACTURER
A. Korogard, Fairlawn, OH4433

2.2 CORNER GUARDS
A. Koroseal "Koroguard" Series G815: Extruded Corner Guard adhered to substrate corner with glue. Exposed surfaces shall be free of wrinkling, chipping, discoloration, or other imperfections.
1. Dimensions: 1-1/2 inch legs at 90 degree angle
2 Profile: High impact vinyl acrylic extrusion, nominal 0.078-inch thick..
3. Extrusion: Pebble grain finish. Contains EPA registered Micro-Check antimicrobial agent.
4. Adhesion: Loctite PL Paneling and Trim Adhesive.
B. Koroseal "Koroguard" Series GS15 16-guage Stainless Steel Corner Guard adhered to substrate corner. Exposed surfaces shall be free of discoloration or other imperfections.
1. Dimensions: 1-1/2-inch legs at 90 degree angle.
2. Material: Stainless Steel, type 304.
3. Finish: No. 4 Satin.
4. Adhesion: Loctite PL Paneling and Trim Adhesive.

PART III - EXECUTION

3.1 EXAMINATION
A. Verify by examination that wall surfaces are acceptable to receive the specified guard systems. Notify the Architect in writing if wall surfaces are not acceptable. Do not begin installation until unacceptable conditions have been corrected.

3.2 INSTALLATION
A. Install corner guards to wall securely in accordance with manufacturer's written instructions.
B. Install corner guards accurately in location, alignment, and elevation.

END OF SECTION C10265

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CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT

CONSULTANT PROJECT # 04591
PRINTED FOR PERMIT
DATE 1/26/22
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SHEET
SPECIFICATIONS

SHEET NUMBER
A-910

PERMIT

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SECTION C10420 - IDENTIFYING SIGNAGE

PART I - GENERAL

1.1 DESCRIPTION
A. Extent of Signage as indicated on drawings and specified herein.
B. Exterior signage can be found on the site drawings.

1.2 QUALITY ASSURANCE
A. Drawings and specifications are based on one manufacturer's standard products.

1.3 SUBMITTALS
A. Submit shop drawings for directories and door identification signs including large-scale sections of typical numbers. Show reinforcement, anchorages, components and finishes.

PART II - PRODUCTS

2.1 SIGNAGE SUPPLIERS
A. Suppliers
1. Clayton Industries, Lake City, GA 30260 see Owner's Sign Package
2. Anchor Signs, Charleston, SC 29405 see Owner's Sign Package
3. Chandler Signs, Atlanta, GA 30534, see Owner's Sign Package
4. National Signs, Houston, TX 77054, see Owner's Sign Package
5. Thomas Signs & Awning, Clearwater, FL 33762, see Owner's Sign Package

2.2 DOOR IDENTIFICATION SIGNS/PUBLIC AREAS
A. Provide door identification signs that read:
MAN with wheelchair symbol
WOMAN with wheelchair symbol
ELECTRICAL ROOM
MECHANICAL ROOM
EMERGENCY EXIT ONLY (1)
EXIT (3)
1. All signage, exterior and interior, shall be in accordance with state and local authorities including raised letters, Braille and symbols.
B. Materials: See Owner's sign package for materials and sizes.
C. Exterior Signage: See Owner's sign package.

PART III - EXECUTION

3.1 INTERIOR SIGNAGE INSTALLATION
A. Install units plumb and level, in locations as shown. Securely attach to supporting structure by means of foam tape and silicone adhesive, in accordance with manufacturer's installation instructions.

3.2 EXTERIOR SIGNAGE
A. Refer to the Owners sign package.
B. Auger hole for each post, set post plumb and fill to grade with concrete, assemble sign panels in accordance with manufacturer's instructions.

END OF SECTION C10420

SECTION - C10523: PORTABLE FIRE EXTINGUISHERS

PART I - GENERAL

1.1 SECTION INCLUDES
A. Portable fire extinguishers and mounting brackets for fire extinguishers.

1.2 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section. Submit sufficient manufacturer's data to indicate compliance with these specifications including:
1. Fire Extinguishers: Materials description including rating and classifications.
2. Schedules showing each type of extinguisher and mounting information.

1.3 RELATED SECTIONS
A. Fire Protection Drawings
B. Division 15 - Plumbing Work

1.4 QUALITY ASSURANCE
A. Provide fire extinguishers of type approved by UL, State Fire Marshal's Office and local regulatory agencies.
B. Provide fully charged fire extinguishers produced by a single manufacturer.

1.5 WARRANTY
A. Special warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of portable fire extinguishers that fails in materials or workmanship within specified warranty period.
1. Failures include, but are not limited to, the following:
a. Failure of hydrostatic test according to NFPA 10.
b. Faulty operation of valves or release levers.
2. Warranty period: 1 year from date of substantial completion.

PART II - PRODUCTS

2.1 PORTABLE FIRE EXTINGUISHERS
A. Manufacturers:
1. Amerex Corporation, Trussille, AL 35173
2. Ansul Incorporated, Marinette, WI 54143
3. Badger Fire Protection, Charlottesville, VA 22901
4. Buckeye Fire Equipment Company, Kings Mountain, NC 28086
5. Fire End & Croker Corporation, Elmsford, NY 10523
6. General Fire Extinguisher Corporation, Aston, PA 19014
7. JL Industries, Inc., Bloomington, MN 55435
8. Larsen's Manufacturing Company, Minneapolis, MN 55432
B. Multi-Purpose Chemical Type: Extinguisher unit containing a fluidized and siliconized mono ammonium phosphate powder, nonconductive and nontoxic.
1. Construction: Heavy duty steel cylinder with metal valve and siphon tube, O-ring seal replaceable valve stem seal, visual pressure gauge, pull pin and upright squeeze grip.
2. Finish: Factory powder coated, Red.
3. Effectiveness (Rating): Class A, B and C fires
C. Class K Wet chemical Type: Extinguisher unit containing a low "pH" potassium acetate solution.
1. Construction: Stainless steel cylinder with protective nozzle tip orifice seal and nonmetallic nozzle tip finger guard, O-ring seal, replaceable valve stem seal, visual pressure gauge, pull pin, and upright squeeze grip.
2. Effectiveness (Rating): Class K fires.
D. Accessories:
1. Mounting Brackets: Provide manufacturer's standard steel bracket, designed to secure fire extinguisher to wall or structure, of sizes required for types and capacities of fire extinguishers indicated.

PART III - EXECUTION

3.1 INSTALLATION
A. Install in locations and at mounting heights complying with applicable regulations.
B. Apply Wall Signs where shown or directed after field painting has been completed and accepted.
C. Ensure that each extinguisher is fully charged and that inspection of each extinguisher has been performed, as evidenced by the National Association of Fire Equipment Distributors certification tag, just prior to turnover.

3.2 CLEAN-UP
A. Upon completion of work of this section remove related debris from premises.

END OF SECTION C10523

SECTION: C10535 - CANOPIES

PART I - GENERAL

1.1 DESCRIPTION OF WORK
A. Work in this section includes furnishing and installation of extruded aluminum overhead hanger rod style canopies.

1.2 QUALITY ASSURANCE
A. Drawings and specifications are based on one manufacturer's standard products.

1.3 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section; Base on details shown on the Drawings. Submit manufacturer's technical data for each type of acoustical ceiling unit and suspension system required.
2. Canopy must conform to local building codes, provide PE stamped calculations when required.
3. Confirm dimensions prior to preparation of shop drawings when possible.
4. Submit shop drawings showing structural component locations/positions, material dimensions and details of construction and assembly.

PART II - PRODUCTS

2.1 MANUFACTURER
A. Mapes Canopies, Lincoln, NB 68514. Phone: (888) 273-1132
1. Super Lumideck (Covered), HR Hanger Rod Supported
2. SuperShade (Louvered), HR Hanger Rod Supported

2.2 MATERIALS AND FINISHES
A. Decking shall consist of 3-inch extruded flat soffit 0.078 decking.
B. Intermediate framing members shall be extruded aluminum, alloy 6063-T6, in profile and thickness shown in current manufacturer literature.
C. Hanger rods and attachment hardware shall be powder coated.
D. Fascia shall be standard 8-inch extruded "GC" style.
E. Flashings shall be by the manufacturer
F. Finishes: Finish type shall be 2-coat Kynar finish, see drawings for color.

2.3 FABRICATION
A. All canopies are shipped in preassembled sections for ease of installation.
B. All connections shall be mechanically assembled utilizing 3/16-inch fasteners with a minimum shear stress of 350 pounds pre-welded or factory-welded connections are not acceptable.
C. Decking shall be designed with interlocking roll-formed aluminum members.
D. Concealed drainage. Water shall drain from covered surfaces into intermediate trough and be directed to side Scupper near front.

PART III - EXECUTION

3.1 INSPECTION
A. Confirm that surrounding area is ready for the canopy installation.
B. Installer shall confirm dimensions and elevations to be as provided by Mapes Industries.
C. Erection shall be performed by an approved installer and scheduled after all concrete, masonry and roofing in the area is completed

3.2 INSTALLATION
A. Installation shall be in strict accordance with manufacturer's shop drawings. Particular attention should be given to protecting the finish during handling and erection
B. Canopy Installation: Installer provides 1/2-inch stainless steel lag bolts at 18" on center at head locations, 1/2-inch stainless steel thru bolts at all tie back locations, refer to manufacturer's recommendations.

3.3 CLEAN-UP
A. After installation, entire system shall be left in a clean condition.

END OF SECTION C10530

SECTION - C10810: TOILET ACCESSORIES

PART I - GENERAL

1.1 SECTION INCLUDES
A. Toilet Accessories: Provide and install per the schedule on the drawings.
B. All bathroom fixtures and accessories shall comply with all federal, state and local handicap accessibility code requirements.

1.2 RELATED SECTIONS
A. Sealants and Caulking: SECTION C07920
B. Rough Carpentry: SECTION C06000

1.3 SUBMITTALS
A. Submit Shop Drawings per SUBMITTALS Section; Base on details shown on the Drawings. Submit manufacturer's technical data for each accessory required.

PART II - PRODUCTS

2.1 MANUFACTURER
A. Manufacturers: As indicated in the Restroom Legend on the Drawings.

PART III - EXECUTION

3.1 INSPECTION
A. Inspect blocking and plate inserts in framing to determine if material is in proper position for installation of accessories prior to wallboard surfacing being applied. Accessories will be securely attached to framing. Grab bars will be installed to withstand a 250 pound. loading condition; provide necessary concealed anchorage devices to meet load requirements.

3.2 INSTALLATION
A. Blocking: Contractor to provide and install all necessary blocking for the accessories.
B. Install items in accord with manufacturer's instructions, in locations shown on the drawings in cooperation with the work of other trades.
C Remove protective covers at final clean-up of installation.
.

3. CLEAN-UP
3
A. Upon completion of work, remove related debris from the premises.

END OF SECTION C10820

DIVISION 12 - FURNISHINGS

SECTION C12390 - MILLWORK, CABINETRY AND COUNTERTOPS

PART I - GENERAL

1. DESCRIPTION
1
A. Coordinate installation of Owner supplied millwork, cabinetry and countertops.

1. RELATED WORK SPECIFIED ELSEWHERE
2
A. Concrete Footings/Slab on Grade: SECTION C03300
B. Finish Carpentry: SECTION C06410
C Vinyl Base: SECTION C09655
.
D Division 15 - Plumbing Work
.

1. SUBMITTALS
3
A. Submit Shop Drawings per SUBMITTALS Section; Base on details shown on the Drawings.

PART II - PRODUCTS

2. Manufacturer:
1
A. Clayton Fixture or FCC, see National Accounts. Owner's contractor will supply material as shown. Material supplied includes, but is not limited to:
1. Cabinetry
2. Counters
3. Restroom lavatories and mirror
4. Window Sills
5. Wood Trim
6. Wainscoting
7. Shelving

PART III - EXECUTION

3. INSPECTION
1
A. Examine all surfaces to which the cabinets and tops are to be applied. Do not proceed until unsatisfactory conditions are corrected and surfaces are acceptable of the surfaces.

3. INSTALLATION
2
A. Installation of millwork, cabinets, countertops, etc. shall be performed by Manufacturer.
B. Installation of wainscot shall be preformed by General Contractor.
C Installation of concrete curbs for cabinetry shall be provided by the General Contractor.
.

END OF SECTION C12390

SECTION C12500 - WINDOW TREATMENT

PART I - GENERAL

1. DESCRIPTION
1
A. Manually operated sunscreen roller shades, provided and installed by the contractor.

1. RELATED SECTIONS
2
A. Rough Carpentry: SECTION C06000
B. Gypsum Board: SECTION C09250

1. SUBMITTALS
3
A. Submit Shop Drawings per SUBMITTALS Section, based on details on the drawings. Submit sufficient manufacturer's data to indicate compliance with these specifications including:
1. Preparation instructions and recommendations.
2. Styles, dimensions, profiles, finishes and operating instructions.
3. Mounting details and installation methods.

1. QUALITY ASSURANCE
4
A. Single-Source: Provide roller shades units and fabrics by a single manufacturer.
B. Fire Performance: Identify roller shade components with appropriate markings of applicable testing and inspection organization.
1. NFPA 701-99 small and large-scale vertical burn.
C Anti-Microbial Performance: Identify fabric with appropriate markings of applicable testing and inspection organization.
.
1. ASTM E 2180, ASTM G21, AATCC30 Part 3, ASTM D 3273, GREENGUARD Mold and Bacteria Standard ASTM 6329, Microban
D Safety Standard Performance: ANSI/WCMA A100.1-2010
.

1. WARRANTY
5
A. Roller Shade Hardware: Manufacturer's standard twenty-five (25) year limited warranty. Chain to have manufacturer's standard one (1) year warranty.
B. Roller Shade Fabric: Manufacturer's standard ten (10) year limited warranty.

PART II - PRODUCTS

2. MANUFACTURERS
1
A. Roller Shade Hardware:
1. Roll-A-Shade, Elsinore, CA 92502
2. Window Interiors, Altamote Springs, FL 32701
B. Roller Shade Fabric:
1. Phifer Incorporated, Tusaloosa, AL 35401

2. ROLLER SHADE
2
A. Manual operation interior, chain drive, sunscreen roller shades in all windows as shown on the drawings. Fabricate units to completely fill openings from head to sill and jamb to jamb.
1. Construction of shade includes the fabric, the hem weight, hem-pocket and/or bottom rail with end caps, shade roller tube and the attachment of the shade band to the roller tube. Sewn hems and open hem packets are not acceptable.
a. Hem weight shall be continuous inside inside a sealed hem pocket. hem pocket construction and hem weights shall be similar, for all shades within on space.
2. Fascia: Continuous removable extruded aluminum fascia that attaches to shade mounting brackets with out the use of adhesives, magnetic strips or exposed fasteners.
a. Fascia shall be able to be installed across one shade bands in one piece
b. Fascia shall fully conceal brackets, shade roller and fabric on the tube.
c. Provide bracket/fascia end caps as required.
d. Color as indicated on drawings.
3. Manual Operated Chain Drive: Stainless steel No. 10 chain rated to 90 pound breaking strength. Nickel plated chain shall not be accepted.
a. Drive sprocket and brake assembly shall have a minimum of four (4) wrap springs.
b. Assembly shall be fully mounted on steel support bracket which may be removed and reinstalled without effecting the roller shade limit adjustments.
c. Tension device shall be installed using a device that when not installed properly renders the shade partially inoperable.
4. Shade Brackets:
a. Shade hardware shall be constructed of minimum 1/16-inch thick plate steel.
b. Provide hardware allowing for the removal of shade roller tube from brackets without removing hardware from opening.
c. Provide hardware capable for installation of a removable fascia. No exposed fastening devices of any kind.
d. Shade bands shall be adjustable without removing shade roller tube or hardware from window.
e. Brackets shall be fully integrated with all accessories.

2.3 SHADE FABRIC
A. Visually Transparent Single-Fabric Shade Cloth as indicated in the Finish Schedule.

PART III - EXECUTION

3.1 INSTALLATION
A. Install shades level, plumb and true in accordance with manufacturer's instructions including recommended support brackets and fasteners.
B. Install shades with adequate clearance to permit smooth operation of the shades. Demonstrate shades to be in smooth, uniform working order.

END OF SECTION C12492

DIVISION 15
SECTION C15000 - MECHANICAL
See Mechanical Drawings for HVAC Specifications

SECTION C15100 - PLUMBING
See Plumbing Drawings for Plumbing Specifications

DIVISION 16
SECTION C16000 - ELECTRICAL
See Electrical Drawings for Electrical Specifications

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FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT

CONSULTANT PROJECT # 04591
PRINTED FOR PERMIT
DATE 1/26/22
DRAWN BY Author

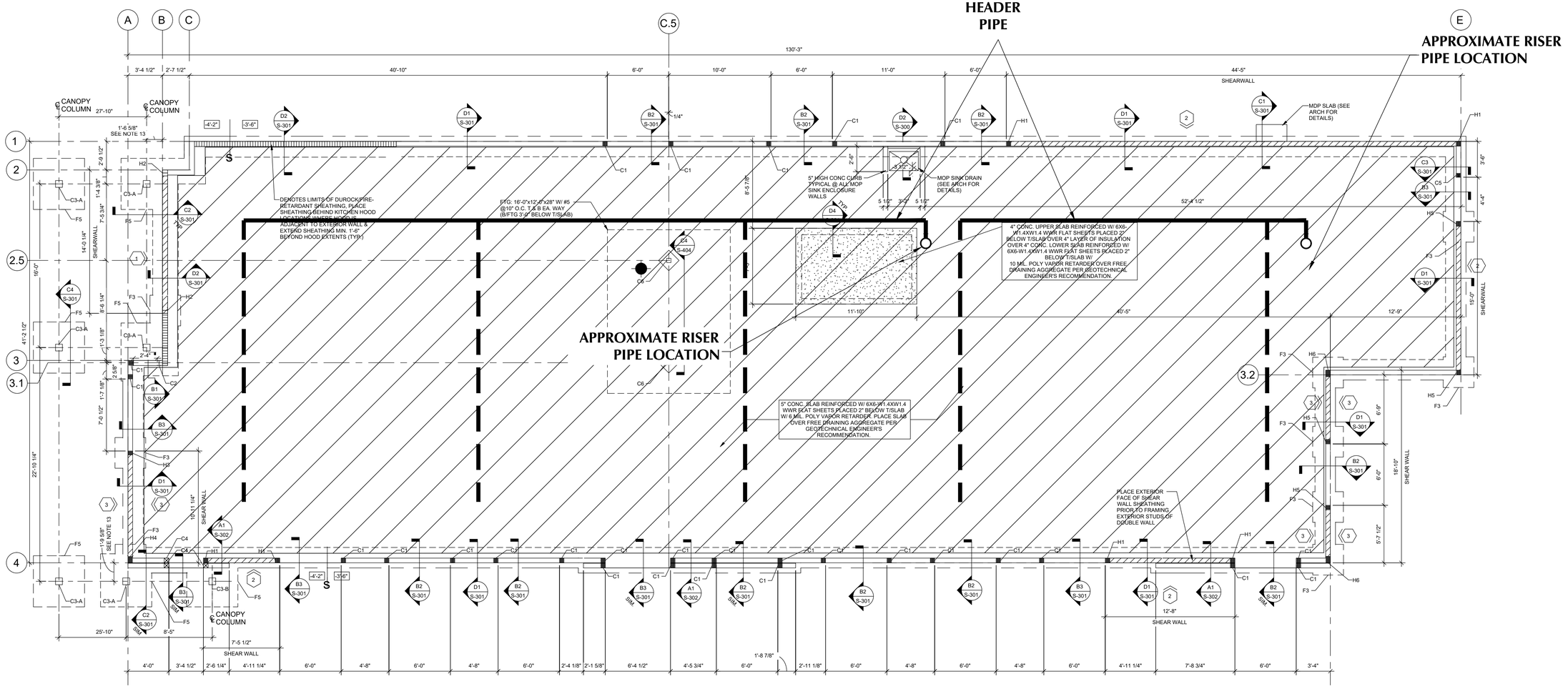
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SHEET
SPECIFICATIONS

SHEET NUMBER
A-911

PERMIT

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FOUNDATION PLAN/LAYOUT

SCALE: 1" = 5'-0"

GENERAL NOTES:

1. THE INFORMATION SHOWN IS SCHEMATIC IN NATURE ONLY. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATIONS AND LAYOUT OF THE VAPOR MITIGATION SYSTEM COMPONENTS IN THE FIELD BASED ON ACTUAL SITE CONDITIONS AND OTHER PROPOSED WORK.
2. THE BUILDING INFORMATION SHOWN IS FOR REFERENCE ONLY. THE PLANS DO NOT SHOW EACH AND EVERY CONDITION AT THE SITE. THE CONTRACTOR SHALL CONFIRM THE EXISTING SITE CONDITIONS, INCLUDING SUB-SLAB UTILITIES AND FOUNDATIONS, PRIOR TO STARTING INSTALLATION OF THE VAPOR MITIGATION SYSTEM COMPONENTS.
3. INSTALLATION OF THE VAPOR MITIGATION SYSTEM SHALL BE COORDINATED WITH THE CONSTRUCTION OF OTHER UTILITIES, STRUCTURAL ELEMENTS, AND ALL OTHER TRADES.
4. NOTIFY WHITESTONE ASSOCIATES, INC. AND THE PROJECT'S LICENSED SITE REMEDIATION PROFESSIONAL (LSRP) IMMEDIATELY OF ANY CONFLICTS BETWEEN THE WORK SHOWN ON THESE PLANS AND ANY OTHER WORK REQUIRED FOR CONSTRUCTION.
5. CONCRETE DELIVERY TRUCKS SHALL NOT CROSS THE SUB-SLAB VAPOR MITIGATION SYSTEM OR VAPOR BARRIER WITHOUT BRIDGING. LASER SCREEDS ARE PERMITTED TO DRIVE ON THE VAPOR BARRIER UPON APPROVAL. ALL VEHICLE MOVEMENT ON THE VAPOR BARRIER SHOULD BE LIMITED TO STRAIGHT LINES ON AND OFF FROM THE VAPOR BARRIER. VEHICLE TURNING SHOULD BE RESTRICTED WHEN ON THE VAPOR BARRIER. THIS MAY AFFECT THE SEQUENCING OR METHOD OF PLACING CONCRETE. COORDINATE WITH VAPOR MITIGATION SYSTEM CONTRACTOR, WHITESTONE ASSOCIATES, INC., THE LSP, AND CONCRETE CONTRACTORS.
6. EXCAVATION MAY BE REQUIRED IN AREAS WHERE OTHER UTILITIES HAVE BEEN INSTALLED OR OTHER CONSTRUCTION HAS BEEN COMPLETED. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND STRUCTURES FROM DAMAGE DURING VAPOR MITIGATION SYSTEM INSTALLATION.
7. SEE ARCHITECTURAL/STRUCTURAL DRAWINGS TO CONFIRM SLAB ELEVATION AND THICKNESS AND BASE MATERIAL.
8. WHITESTONE ASSOCIATES, INC. AND THE LSRP MUST BE ON SITE TO CONDUCT INSPECTIONS DURING THE INSTALLATION OF THE VAPOR MITIGATION SYSTEM. ALL INSTALLATION RELATED ISSUES MUST BE PROVIDED TO WHITESTONE ASSOCIATES, INC. AND THE LSRP FOR REVIEW AND CLARIFICATION.
9. THE SUB-SLAB VAPOR MITIGATION SYSTEM IS PASSIVE AS SHOWN HEREIN; HOWEVER, THE SYSTEM CAN BE CONVERTED TO AN ACTIVE SYSTEM WITH THE ADDITION OF A BLOWER TO THE SECTION OF RISER PIPE SHOWN ON THE RISER PIPE DETAIL ON SHEET 2. AN ELECTRICAL JUNCTION BOX SHOULD BE INSTALLED IN THE VICINITY OF THE RISER PIPE FOR THE POTENTIAL FUTURE BLOWER ADDITION.
10. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS, AND PERFORM ALL OPERATIONS NECESSARY TO FURNISH, DEPLOY, SEAM, AND QC TEST THE SUBSLAB VENT SYSTEM AND GEOMEMBRANE INCLUDING LEAK DETECTION TESTING.
11. MATERIALS SHALL BE DELIVERED TO THE SITE IN ORIGINAL UNBROKEN PACKAGES BEARING THE MANUFACTURER'S LABEL SHOWING BRAND, WEIGHT, VOLUME, AND BATCH NUMBER. STORE MATERIALS IN STRICT COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS. DO NOT ALLOW MATERIALS TO FREEZE.
12. GEOTEXTILES SHALL BE COMPRISED OF POLYMERIC YARNS OF FIBERS OR WELD OR DRAWN STRANDS ORIENTED INTO A STABLE NETWORK WHICH WILL RETAIN ITS STRUCTURE DURING HANDLING, PLACEMENT, AND LOG-TERM SERVICE. GEOTEXTILES SHALL BE CAPABLE OF WITHSTANDING DIRECT EXPOSURE TO THE SUNLIGHT FOR 30 DAYS WITH NO MEASURABLE DETERIORATION.
13. SYNTHETIC FABRICS SHALL BE NON-BIODEGRADABLE. THE CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S RECOMMENDATIONS REGARDING HANDLING AND INSTALLATION OF SUCH MATERIALS.

SUB-SLAB VAPOR MITIGATION SYSTEM (SSVMS):

1. THE SUB-SLAB VAPOR MITIGATION SYSTEM SHALL CONSIST OF A MINIMUM 60-MIL SPRAY-ON ASPHALT EMULSION TYPE CONTAMINANT VAPOR BARRIER, SUCH AS LAND SCIENCE TECHNOLOGIES GEOSEAL®, CETCO® LIQUID BOOT®, OR APPROVED EQUIVALENT, PLACED DIRECTLY BELOW THE CONCRETE SLAB AND OVERLYING A MINIMUM OF 9 INCHES OF ¾-INCH CRUSHED STONE WITHIN WHICH A LAND SCIENCE TECHNOLOGIES GEO-SEAL® VAPOR-VENT, CETCO LIQUID BOOT® GEOVENT, OR APPROVED EQUIVALENT, AND POLYVINYLCHLORIDE (PVC) PIPE NETWORK IS INSTALLED. BENEATH THE CRUSHED STONE LAYER, A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED OVER THE SUBGRADE. POST INSTALLATION QUALITY CONTROL (QC) SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE OF THE ENGINEER AND LSRP.
2. THE VAPOR BARRIER SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. VAPOR BARRIER CONTRACTOR TO PROVIDE CERTIFICATION AND TESTING RESULTS (SMOKE TEST OR EQUAL) FOR VAPOR BARRIER INSTALLATION. SEE "CONTAMINANT VAPOR BARRIER QUALITY CONTROL" ITEM 3 FOR TESTING FREQUENCY.
3. PIPING WITHIN THE OCCUPIED BUILDING SPACE SHALL BE LABELED AT A MAXIMUM SPACING OF 10 FEET; THE LABEL SHALL READ "SUB-SLAB VAPOR MITIGATION SYSTEM".
4. AT ROOF EXIT, A PERMANENT LABEL SHALL BE ATTACHED TO VENT STACK READING "SUB-SLAB VAPOR MITIGATION SYSTEM, DO NOT PLACE AIR INTAKE WITHIN 10 FEET".
5. INSPECT SUBGRADE PRIOR TO INSTALLATION OF VAPOR BARRIER AND REMOVE DEBRIS OR OTHER OBJECTS THAT COULD PUNCTURE, TEAR, OR OTHERWISE DAMAGE THE MEMBRANE.
6. SEAL ALL VAPOR BARRIER TERMINATIONS AT FOOTINGS, COLUMNS, AND PENETRATIONS IN ACCORDANCE WITH THE VAPOR BARRIER MANUFACTURER'S WRITTEN INSTRUCTIONS AND DETAILS ON SHEET 2.
7. CONTRACTOR SHALL PROTECT VAPOR BARRIER FROM PUNCTURE, TEARING, OR OTHER DAMAGE AND THOROUGHLY INSPECT VAPOR BARRIER FOR DAMAGE PRIOR TO PLACING CONCRETE. CONTRACTOR SHALL REPAIR OR REPLACE DAMAGED SECTIONS OF VAPOR BARRIER.
8. DO NOT PUNCTURE VAPOR BARRIER OR OTHER COMPONENTS OF VAPOR MITIGATION SYSTEM WITH FORMWORK STAKES UNLESS PERMITTED BY VAPOR MITIGATION SYSTEM MANUFACTURER. REPAIR DAMAGE AS REQUIRED BY VAPOR MITIGATION MANUFACTURER.
9. DO NOT INSTALL SSVMS IN GROUNDWATER OR OTHER WATER. IF WATER IS PRESENT IN THE TRENCH, CONTACT WHITESTONE ASSOCIATES, INC. FOR DIRECTION.
10. GRANULAR BASE SHALL BE FLAT WITH NO PROTRUDING SHARP EDGES. THIS CAN BE ACCOMPLISHED BY COMPACTING WITH A SMOOTH DRUM ROLLER OR PLATE COMPACTOR TO INTERLOCK STONE PARTICLES.
11. RISER PIPE TO TERMINATE 3'-0" ABOVE ROOF AND/OR PARAPET WALLS.
12. PVC CONNECTIONS TO BE THREADED OR SCREWED. NO GLUES CAN BE USED TO CONNECT PVC COMPONENTS.
13. GEOTEXTILE SHALL CONSIST OF A NON-WOVEN POLYPROPYLENE FABRIC SUCH AS TENCATE MIRAFI 140N, OR APPROVED EQUIVALENT.
14. WHERE THE USE OF ADJACENT SHEETS OF A GEOTEXTILE ARE REQUIRED AND ARE NOT TO BE SEWN, A MINIMUM OVERLAP OF 12 INCHES SHALL BE MAINTAINED.
15. IN APPLICATIONS WHERE GEOTEXTILE SURROUNDS PIPE AND CRUSHED STONE, THE GEOTEXTILE WRAP SHALL BE OVERLAPPED A MINIMUM OF 12 INCHES.
16. SHEETS OF GEOTEXTILE USED ON SLOPED SURFACES SHALL BE SHINGLED SUCH THAT THE UPSLOPE GEOTEXTILE OVERLIES THE ADJACENT DOWNSLOPE SHEET.

PIPING:

1. THE CONTRACTOR SHALL USE 4-INCH DIAMETER PERFORATED PVC PIPE CONFORMING TO ASTM D 1785, SCHEDULE 80 FOR THE SUBSLAB HEADER PIPE.
2. PERFORATED PIPE HEADER SHALL BE CONNECTED TO THE LATERAL VENT NETWORK AND SOLID RISER PIPE EXTENDED TO THE ROOF. THE SYSTEM HEADER SHALL BE PERFORATED WITH 1 SET OF ½-INCH DIAMETER HOLES SPACED 10 FEET APART. THE HEADER SHALL BE PLACED WITH THE SINGLE SET OF PERFORATIONS DOWNWARD (BOTTOM).
3. THE VERTICAL VENT PIPE RISER SHALL BE 4-INCH DIAMETER SOLID (NON-PERFORATED) SCHEDULE 80 PVC OR SCHEDULE 40 GALVANIZED STEEL PIPE. THE RISER MATERIAL MUST BE COMPLIANT WITH LOCAL BUILDING CODES. PRIOR TO CONSTRUCTION, THE LOCATION OF THE RISERS SHALL BE CONFIRMED WITH ARCHITECT/STRUCTURAL ENGINEER.
4. WHERE EXPOSURE TO HIGH TEMPERATURES IS LIKELY, PIPING SHALL BE HEAT RESISTANT OR PROTECTED FROM EXCESS HEAT TO PREVENT DETERIORATION OF THE PIPING OVER TIME.
5. PVC PIPE CONNECTIONS BELOW THE FLOOR SLAB SHALL BE SECURED USING TWO STAINLESS STEEL SET SCREWS PER CONNECTION. PVC PIPE CEMENT SHALL NOT BE USED.
6. PVC PIPE CONNECTIONS ABOVE THE FLOOR SLAB SHALL BE THREADED AND SEALED WITH TEFLON THREAD COMPOUND.
7. GALVANIZED PIPE CONNECTION SHALL BE THREADED AND SEALED WITH TEFLON THREAD COMPOUND.

QUALITY ASSURANCE:

1. CONTAMINANT VAPOR BARRIER INSTALLATION SHALL BE PERFORMED BY AN INSTALLER TRAINED AND APPROVED BY THE MANUFACTURER OF THE SELECTED CONTAMINANT VAPOR BARRIER SYSTEM.
2. THE INSTALLATION CONTRACTOR SHALL HAVE A MINIMUM OF 5 YEARS EXPERIENCE IN THE WORK SPECIFIED HEREIN AND SHALL HAVE SUCCESSFULLY COMPLETED A MINIMUM OF 5 SIMILAR PROJECTS.
3. CONTAMINANT VAPOR BARRIER INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

FIELD MONITORING AND TESTING:

1. FIELD MONITORING OF THE CONTAMINANT VAPOR BARRIER SYSTEM INSTALLATION SHALL BE PERFORMED BY WHITESTONE. POST-INSTALLATION QC SHALL BE PERFORMED BY THE CONTRACTOR TO THE SATISFACTION OF WHITESTONE.
2. CUT SAMPLES FROM THE CONTAMINANT VAPOR BARRIER EVERY 1,000 SQUARE FEET TO A MAXIMUM AREA OF TWO (2) SQUARE INCHES TO CONFIRM SUFFICIENT APPLIED THICKNESS. REPAIR SAMPLE LOCATION.

CONTAMINANT VAPOR BARRIER QUALITY CONTROL:

1. THE INSTALLATION CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING A QC TESTING PROGRAM MEETING, AT A MINIMUM, THE REQUIREMENTS SPECIFIED BY THE ENGINEER AND MANUFACTURER, TO ASSURE THAT MATERIALS AND INSTALLATION METHODS EMPLOYED ARE OF A QUALITY SUITABLE FOR USE IN A SUBSLAB VAPOR BARRIER APPLICATION.
2. QC MEASURES SHALL ENSURE BARRIER INSTALLATION IS COMPLETED IN A GOOD WORKMAN-LIKE MANNER AND IS IN COMPLIANCE WITH THE ENGINEER'S SPECIFICATIONS.
3. QC PROCEDURES SHALL INCLUDE, BUT ARE NOT LIMITED TO:
   a. PROVIDING MANUFACTURER'S MATERIAL QC CERTIFICATIONS;
   b. PROVIDING EXPERIENCED AND COMPETENT FIELD STAFF;
   c. PERFORMING ADEQUATE PERSONNEL TRAINING;
   d. PERFORMING QC TESTING, INCLUDING LEAK DETECTION TESTING TO THE SATISFACTION OF THE OWNER'S ENGINEER. LEAK DETECTION TESTING SHALL BE PERFORMED:
      d.a. IMMEDIATELY AFTER BARRIER INSTALLATION;
      d.b. AFTER PLACEMENT OF REBAR AND IMMEDIATELY BEFORE SLAB POUR; AND,
      d.c. AFTER COMPLETION OF SLAB PLACEMENT; AND,
      d.d. AFTER REPAIRS HAVE BEEN MADE AT THICKNESS TESTING LOCATIONS.
   e. MAINTAINING RECORDS DOCUMENTING QC ITEMS, SUCH AS AS-BUILT PANEL LAYOUT, LOCATIONS AND IDENTIFICATIONS OF ALL REPAIRS, LOCATIONS AND TEST RESULTS OF ALL DESTRUCTIVE AND NONDESTRUCTIVE FIELD TESTS.
4. ALL HOLES AND TEARS IN THE CONTAMINANT VAPOR BARRIER SHALL BE NOTED AND REPAIRED TO THE SATISFACTION OF WHITESTONE AND THE PROJECT'S LSRP.

OPERATION AND MAINTENANCE:

1. FOLLOWING INSTALLATION REGULAR INSPECTION OF THE KEY COMPONENTS OF THE SSVMS SHALL BE PERFORMED, INCLUDING RISER PIPES, ROOFTOP WIND DRIVEN TURBINES, AND SAMPLING PORTS.
2. INDOOR AIR AND VAPOR SAMPLING SHALL BE PERFORMED ON A PERIODIC BASIS. SEE BELOW FOR QUARTERLY SAMPLING REQUIREMENTS.
3. INDOOR AIR SHALL BE SAMPLED APPROXIMATELY 7 DAYS AFTER SYSTEM INSTALLATION AND QUARTERLY WITHIN THE FIRST YEAR WITH TWO ROUNDS CONDUCTED DURING THE HEATING SEASON. FOLLOW-UP TO INCLUDE A COMPLETE YEAR OF QUARTERLY SAMPLING; SAMPLING SHOULD TRANSITION TO ONCE PER YEAR.
4. INSPECTION OF ROOFTOP WIND DRIVEN TURBINES SHOULD BE PERFORMED PERIODICALLY. DURING THE WINTER TURBINES SHOULD BE INSPECTED REGULARLY FOR ICE AND SNOW ACCUMULATION. THIS SHALL BE COMPLETED BY RESTAURANT STAFF.

INSTALLATION RESPONSIBILITIES:

	Responsible Party		
	General Contractor	VMS Installer	Plumbing Contractor
Surface Preparation			
Subgrade Preparation	X		
Placement of geotextile fabric over prepared subgrade	X		
Placement of nine-inch thick layer of crushed stone over geotextile	X		
Vapor Mitigation System			
Placement of VMS pipe network within crushed stone layer below slab (includes riser pipe to a minimum of three feet above slab) and backfill of crushed stone over pipe network.		X	
Application of spray-applied vapor barrier		X	
Installation of riser pipe within interior wall (includes wind turbine above roof)	X		X
Performing smoke testing.		X	
Protection of VMS following installation, prior to slab placement.	X		

LEGEND

- EXTENT OF FLOOR SLAB UNDERLAIN BY VENTING NETWORK AND VAPOR BARRIER
- PROPOSED 4-INCH DIAMETER SCHEDULE 80 PVC SUBSLAB HEADER PIPE
- PROPOSED LIQUID BOOT® GEOVENT LATERAL
- 4-INCH DIAMETER RISER PIPE LOCATION (APPROXIMATE)
- VAPOR MONITORING PORT LOCATION (APPROXIMATE)

REFERENCE

THIS PLAN IS BASED UPON AN ELECTRONIC FOUNDATION PLAN PROVIDED BY WILLETT ENGINEERING.

WHITESTONE ASSOCIATES, INC.
Environmental & Geotechnical Engineers & Consultants
352 TURNPIKE ROAD, SUITE 320, SOUTHBOROUGH, MA 01772
508.485.0755 WHITESTONEASSOC.COM

REVISIONS:

REV:	DATE:	COMMENTS:	BY:
.	.	.	.

APPROVED FOR CONSTRUCTION

JOB NO.:	EM1916879.002
DRAWN BY:	MR
CHECKED BY:	RR
DATE:	03/29/22
SCALE:	AS SHOWN

PROJECT:

CHICK-FIL-A RESTAURANT
320 ROUTE 9
WOODBRIDGE TOWNSHIP,
NEW JERSEY

FOR

CHICK-FIL-A, INC.

5200 BUFFINGTON ROAD
ATLANTA, GEORGIA 30349

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STATE OF NEW JERSEY · BRYAN R. ROSE · NO. GE47926 · LICENSED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE47926

SHEET TITLE:

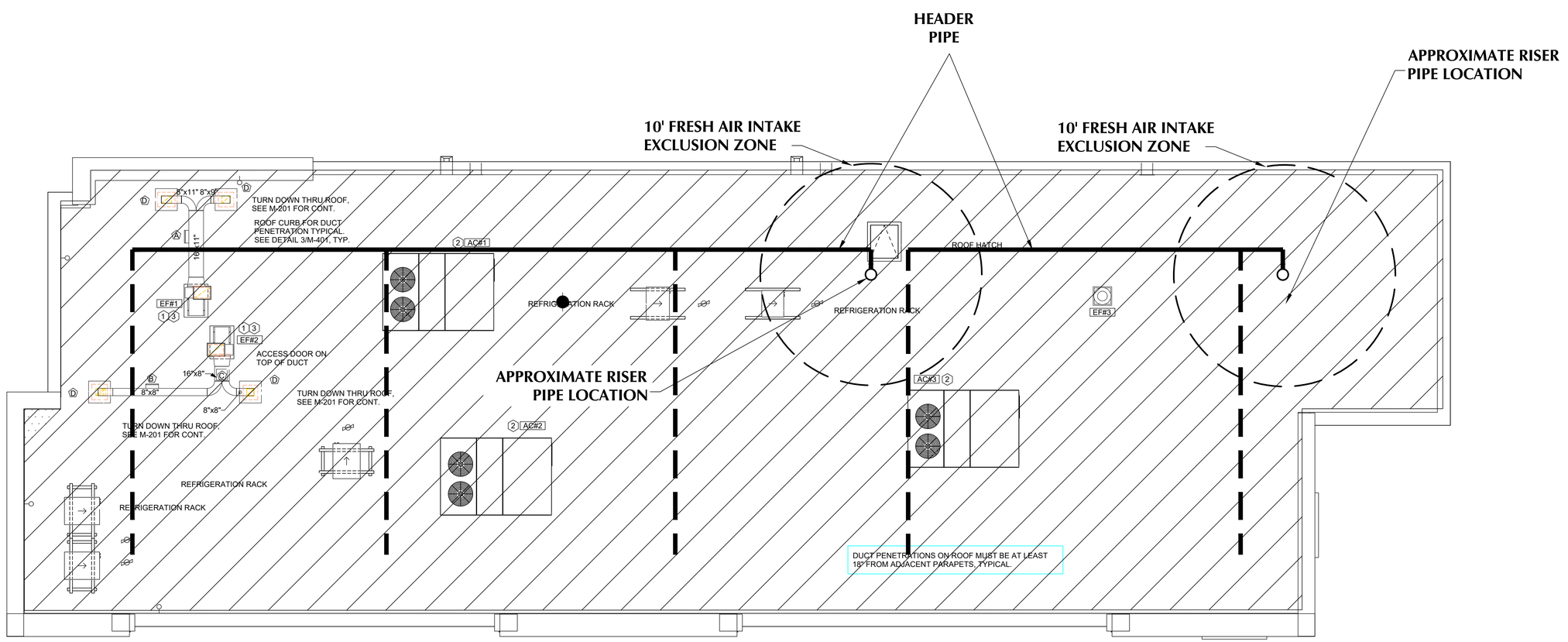
VAPOR MITIGATION PLAN
(SUB-SLAB VENTING SYSTEM
GENERAL ARRANGEMENT)

SHEET NUMBER:

1 OF 4

REVISIONS - 0

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ROOF PLAN/LAYOUT

SCALE: 1" = 5'-0"

LEGEND

- EXTENT OF FLOOR SLAB UNDERLAIN BY VENTING NETWORK AND VAPOR BARRIER
- PROPOSED 4-INCH DIAMETER SCHEDULE 80 PVC SUBSLAB HEADER PIPE
- PROPOSED LIQUID BOOT® GEOVENT LATERAL
- 4-INCH DIAMETER RISER PIPE LOCATION (APPROXIMATE)
- VAPOR MONITORING PORT LOCATION (APPROXIMATE)

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508.485.0755 WHITESTONEASSOC.COM

REVISIONS:

REV:	DATE:	COMMENTS:	BY:
.	.	.	.

APPROVED FOR CONSTRUCTION

JOB NO.:	EM1916879.002
DRAWN BY:	MR
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PROJECT:

CHICK-FIL-A RESTAURANT
320 ROUTE 9
WOODBRIDGE TOWNSHIP,
NEW JERSEY

FOR

CHICK-FIL-A, INC.

5200 BUFFINGTON ROAD
ATLANTA, GEORGIA 30349

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RYAN R. ROSS
NO. GE47926
LICENSED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE47926

SHEET TITLE:

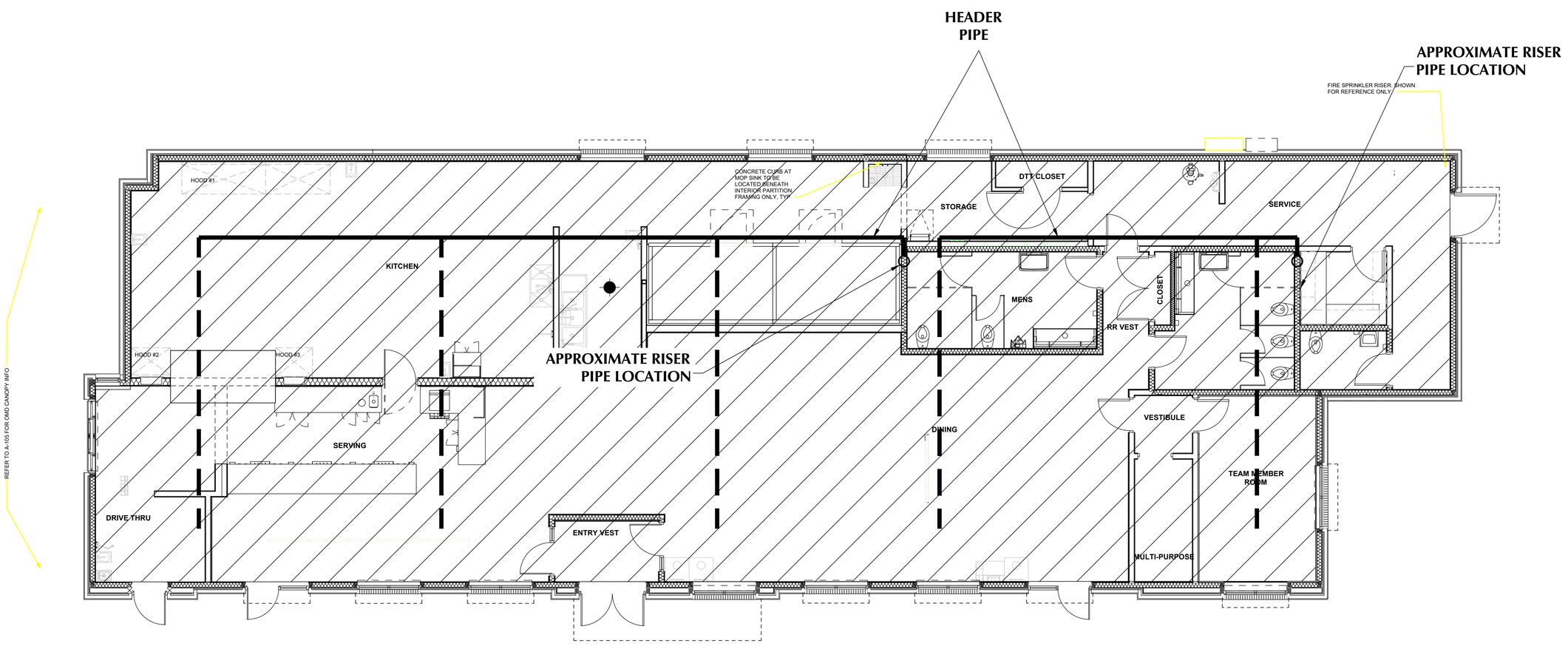
VAPOR MITIGATION PLAN (ROOF LAYOUT)

SHEET NUMBER:

2 OF 4

REVISIONS - 0

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FLOOR PLAN/LAYOUT

SCALE: 1" = 5'-0"

LEGEND

- EXTENT OF FLOOR SLAB UNDERLAIN BY VENTING NETWORK AND VAPOR BARRIER
- PROPOSED 4-INCH DIAMETER SCHEDULE 80 PVC SUBSLAB HEADER PIPE
- PROPOSED LIQUID BOOT® GEOVENT LATERAL
- 4-INCH DIAMETER RISER PIPE LOCATION (APPROXIMATE)
- VAPOR MONITORING PORT LOCATION (APPROXIMATE)

REFERENCE

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WHITESTONE ASSOCIATES, INC.
Environmental & Geotechnical Engineers & Consultants
352 TURNPIKE ROAD, SUITE 320, SOUTHBOROUGH, MA 01772
508.485.0755 WHITESTONEASSOC.COM

REVISIONS:

REV:	DATE:	COMMENTS:	BY:
.	.	.	.

APPROVED FOR CONSTRUCTION

JOB NO.:	EM1916879.002
DRAWN BY:	MR
CHECKED BY:	RR
DATE:	03/29/22
SCALE:	AS SHOWN

PROJECT:
CHICK-FIL-A RESTAURANT
320 ROUTE 9
WOODBRIDGE TOWNSHIP,
NEW JERSEY

FOR

CHICK-FIL-A, INC.

5200 BUFFINGTON ROAD
ATLANTA, GEORGIA 30349

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STATE OF NEW JERSEY
RYAN A. ROSS
NO. GE47926
LICENSED PROFESSIONAL ENGINEER

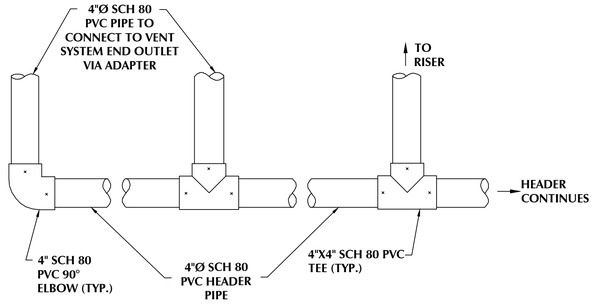
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE47926

SHEET TITLE:
VAPOR MITIGATION PLAN (FLOOR PLAN)

SHEET NUMBER:
3 0F 4

REVISIONS - 0

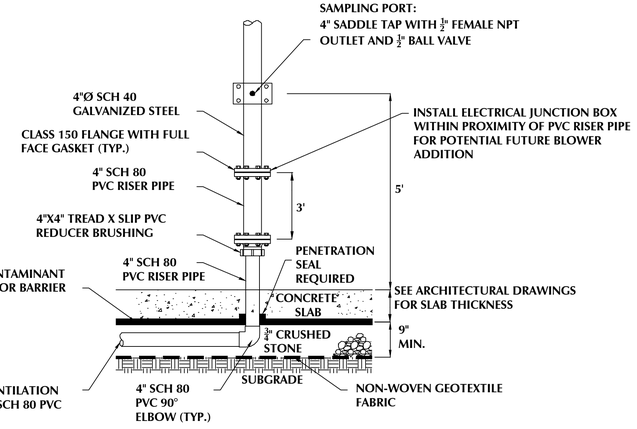
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NOTE:
1) PROVIDE TWO STAINLESS STEEL SET SCREWS PER CONNECTION PVC CEMENT SHALL BE NOT USED

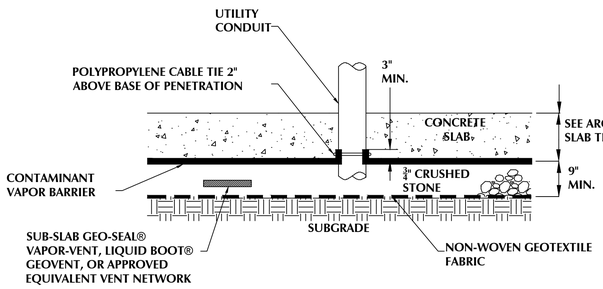
PIPE CONNECTION DETAIL

SCALE: N.T.S.



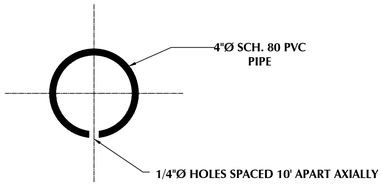
RISER PIPE DETAIL (TYP.)

SCALE: N.T.S.



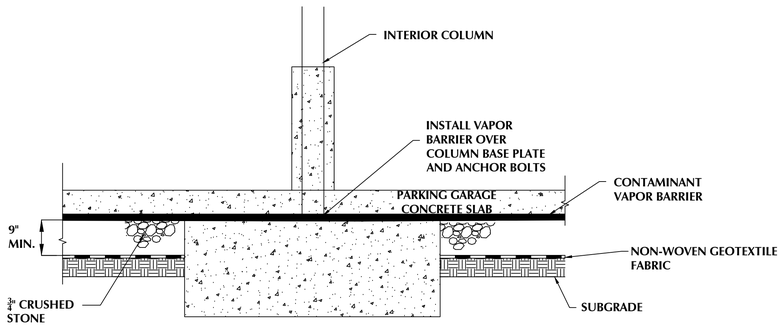
PENETRATION SEAL (TYP.)

SCALE: N.T.S.



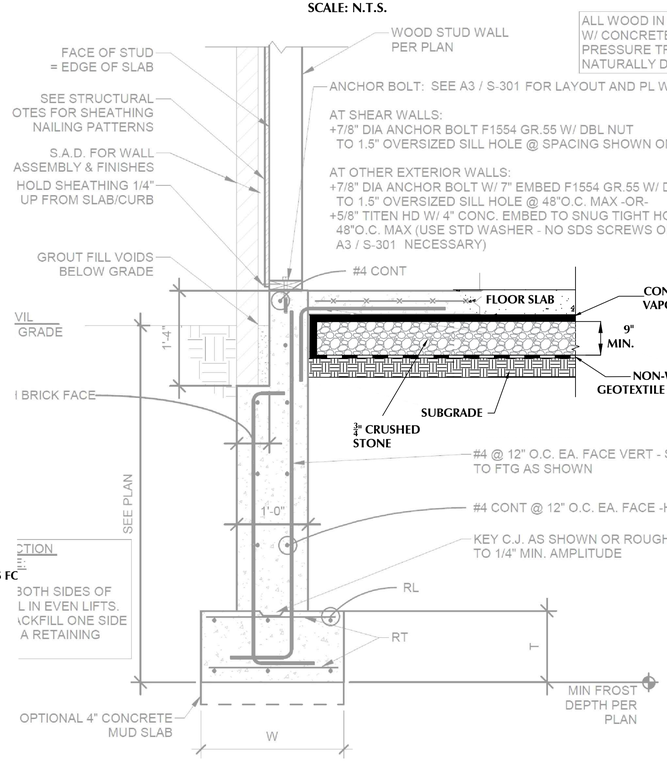
HEADER PIPE DETAIL (TYP.)

SCALE: N.T.S.



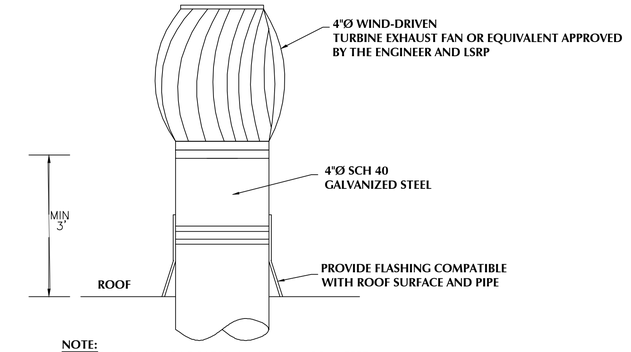
TYPICAL SECTION AT INTERIOR FOOTING

SCALE: N.T.S.



TYPICAL SECTION AT EXTERIOR WALL

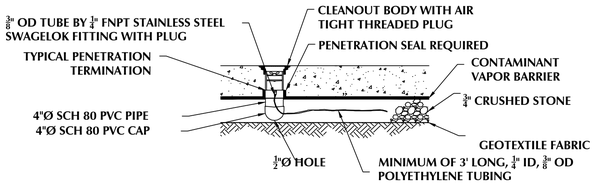
SCALE: N.T.S.



NOTE:
1) RISER SHOULD BE LOCATED A MINIMUM OF 10 FEET FROM ANY FRESH AIR INTAKE

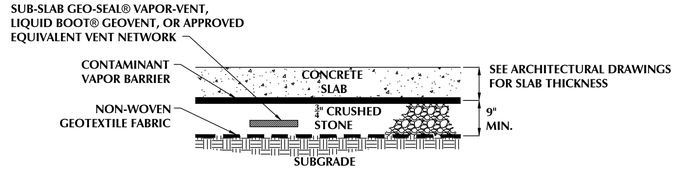
AIR EXHAUST DETAIL

SCALE: N.T.S.



TYPICAL SUB-SLAB VENTILATION CLEANOUT AND SAMPLING LOCATION DETAIL

SCALE: N.T.S.



TYPICAL SECTION THROUGH SUB-SLAB VENT NETWORK

SCALE: N.T.S.

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STATE OF NEW JERSEY
RYAN R. RO
No. GE47926
LICENSED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. GE47926

SHEET TITLE:
VAPOR MITIGATION PLAN (DETAILS)

SHEET NUMBER:
4 0F 4

REVISIONS - 0

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A		
	A.B.	ANCHOR BOLT
	AC.	ALASKA CEDAR (WOOD)
	ABT	ABOUT
	ABV	ABOVE
	ADDL	ADDITIONAL
	ADJ.	ADJACENT
	ALT.	ALTERNATE
	AMP	AMPLITUDE
	AGGR.	AGGREGATE
	APPROX.	APPROXIMATE(LY)
	ARCH.	ARCHITECT(URE)(URAL)
B		
	BD	BOARD
	BF	BRACED FRAME
	B.F.	BOUNDARY FASTENER
	B.L.	BOTTOM LOWER
	BLDG	BUILDING
	BLK	BLOCK
	BLKG	BLOCKING
	BM	BEAM
	B.N.	BOUNDARY NAIL(ING)
	BOT.	BOTTOM
	B.O.	BOTTOM OF
	B.O.C.	BOTTOM OF CONCRETE
	B.O.F.	BOTTOM OF FOOTING
	B.O.S.	BOTTOM OF STEEL
	BRG	BEARING
	B.S.	BOTH SIDES
	BSMT	BASEMENT
	B.U.	BOTTOM UPPER
	BTNN	BETWEEN
C		
	C	CHANNEL (STEEL SHAPE)
	CFS	COLD-FORMED STEEL
	CIDH	CAST-IN-DRILLED HOLE
	C.I.P.	CAST - IN-PLACE
	C.J.	CONSTRUCTION JOINT
	C.J.P.	COMPLETE JOINT PENETRATION (GROOVE WELD)
	CLG	CEILING
	CLR	CLEAR, CLEARANCE
	C.M.U.	CONCRETE MASONRY UNIT
	COL.	COLUMN
	COLL.	COLLECTOR
	CONC.	CONCRETE
	CONN.	CONNECTION
	CONST.	CONSTRUCT (ING)(ION)
	CONT.	CONTINUOUS
	CONTR.	CONTRACT(OR)
	CRVD.	CURVED
	C.P.	COMPLETE PENETRATION (WELD)
	CST.	CONSTRUCTION
	CTR	CENTER, CENTRAL
	CTSK	COUNTERSINK
	CHT.	COUNTERWEIGHT
	CVN	CHARPY V-NOTCH
D		
	d	PENNY HEIGHT (NAIL)
	D2L	NELSON WELDED REBAR
	D.B.A.	DEFORMED BAR ANCHOR
	DBL	DOUBLE
	DEMO.	DEMOLITION
	DTL.	DETAIL
	DF	DOUGLAS FIR (WOOD)
	DIA.	DIAMETER
	DIAG.	DIAGONAL
	DIM.	DIMENSION
	DISCONT.	DISCONTINUOUS
	DN	DOWN
	DO	DITTO
	DP	DEEP
	DSA	CA DIV. OF STATE ARCH.
	DWG	DRAWING
E		
	(E)	EXISTING
	EA.	EACH
	E.F.	EACH FACE
	E.G.	SUCH AS
	EL.	ELEVATION
	ELEC.	ELECTRICAL
	ELEVR	ELEVATOR
	E.J.	EXPANSION JOINT
	EMBED.	EMBEDMENT
	E.N.	EDGE NAIL(ING)
	E.O.	EDGE OF
	E.O.S.	EDGE OF SLAB
	E.P.S.	EXPANDED POLYSTYRENE
	EQ.	EQUAL (EQUIVALENT)
	EQ. SP.	EQUALLY SPACED
	EQUIP.	EQUIPMENT
	E.S.	EACH SIDE
	E.W.	EACH WAY
	E.W.E.F.	EACH WAY, EACH FACE
	E/W	EAST/WEST
	EXP.	EXPANSION
	EXT.	EXTERIOR

F		
	FB	FLAT BAR (STEEL SHAPE)
	F.D.	FLOOR DRAIN
	FDN	FOUNDATION
	F.F.	FAR FACE OR FIELD FASTENER
	FIN.	FINISH(ED)
	FLG.	FLANGE
	FLR	FLOOR
	F.N.	FIELD NAIL
	F.O.	FACE OF
	F.O.C.	FACE OF CONCRETE
	F.O.S.	FACE OF STUD OR FACE OF STEEL
	F.P.	FULL PENETRATION (WELD)
	FPRF.	FIREPROOFING
	FRMG	FRAMING
	F.S.	FAR SIDE
	FT	FEET OR FOOT
	FTG.	FOOTING
G		
	@	GAUGE
	GALV.	GALVANIZED
	GAR.	GARAGE
	GLB.	GRADE BEAM
	G.C.	GENERAL CONTRACTOR
	GEN.	GENERAL
	GLB	GLUED LAMINATED TIMBER BEAM
	GLC	GLUED LAMINATED TIMBER COLUMN
	GR.	GRADE
	GYP.	GYPSUM
H		
	(H), HORIZ.	HORIZONTAL
	H.C.T.	HOLLOW CLAY TILE
	HD	HOLDOWN
	H.D.G.	HOT-DIP GALVANIZED
	HDPE	HIGH-DENSITY POLYETHYLENE
	HDR	HEADER
	HGR	HANGER
	HK	HOOK
	H.S.	HEADED STUD OR HIGH STRENGTH (BOLT)
	HSS	HOLLOW STRUCTURAL SECTION
	HT	HEIGHT
I		
	I.D.	INSIDE DIAMETER
	I.E.	THAT IS, SPECIFICALLY
	I.F.	INSIDE FACE
	IN.	INCH
	INCL.	INCLUDED
	INFO.	INFORMATION
	INSP.	INSPECTION
	INSUL.	INSULATION
	INT.	INTERIOR
	IRREG.	IRREGULAR
J		
	JCT.	JUNCTION
	JST	JOIST
	JT, JNT	JOINT
K		
	K	KIP (1,000 POUNDS)
	K.D.	KILN DRIED
	KSI	KIPS PER SQUARE INCH
	KSF	KIPS PER SQUARE FOOT
L		
	L	ANGLE (STEEL SHAPE)
	LB.	POUND
	LGS	LIGHT-GAUGE STEEL
	L.L.B.B.	LONG LEGS BACK TO BACK
	L.L.H.	LONG LEG HORIZONTAL
	L.L.V.	LONG LEG VERTICAL
	LMBR	LUMBER
	L.S.	LONG SLOTTED (HOLE)
	LSL	LAMINATED STRAND LUMBER
	LSLH	LONG SLOTTED (HOLE) W/ LONG AXIS HORIZ.
	LSLT.	LONG SLOTTED (HOLE)
	LSLV	LONG SLOTTED (HOLE) W/ LONG AXIS VERT.
	LTWT	LIGHTWEIGHT
	LVL	LEVEL OR LAMINATED VENEER LUMBER
	LWC	LIGHTWEIGHT CONCRETE

M		
	MANUF.	MANUFACTURER
	MATL	MATERIAL
	MAX.	MAXIMUM (NO MORE THAN; AT MOST)
	M.B.	MACHINE BOLT
	MC	MISCELLANEOUS CHANNEL (STEEL SHAPE)
	MECH.	MECHANICAL
	MEP	MECHANICAL, ELECTRICAL, PLUMBING
	MEZZ.	MEZZANINE
	MF	MOMENT FRAME
	MFR	MANUFACTURER(R)
	M.I.	MALLEABLE IRON
	MIN.	MINIMUM (NO LESS THAN; AT LEAST)
	MISC.	MISCELLANEOUS
	MOD.	MODIFY)(ICATION)
	MT	MISCELLANEOUS TEE (STEEL SHAPE)
	MTL	METAL
N		
	N	NORTH
	(N)	NEW
	N/A	NOT APPLICABLE
	N.F.	NEAR FACE
	N.I.C.	NOT IN CONTRACT
	NO.	NUMBER
	NOM.	NOMINAL
	N&FS	NEAR & FAR SIDE
	N.T.S.	NOT TO SCALE
	NR	NEAR
	N.S.	NEAR SIDE
	N/S	NORTH/SOUTH
	N.W.	NORMAL WEIGHT
	NWC	NORMAL WEIGHT CONCRETE
O		
	O.C.	ON CENTER
	O.D.	OUTSIDE DIAMETER
	O.F.	OUTSIDE FACE
	OG	OPEN GRAIN (REDWOOD)
	O.H.	OPPOSITE HAND
	OPG	OPENING
	OPNG	OPENING
	OPP.	OPPOSITE
	ORIG.	ORIGINAL
	O.S.	OVERSIZED (HOLE)
P		
	P.A.F.	POWDER ACTUATED FASTENER(S)
	PC, PCS	PIECE, PIECES
	PCF	POUNDS PER CUBIC FOOT
	PCI	POUNDS PER CUBIC INCH
	P.D.	POWDER DRIVEN
	P.D.F.	POWDER DRIVEN FASTENER(S)
	P.E.F.	(PLYWOOD) PANEL EDGE FASTENER
	P.E.N.	(PLYWOOD) PANEL EDGE NAILING
	PERF.	PERFORATED
	PIPE-X	EXTRA STRONG PIPE
	PIPE-XX	DOUBLE EXTRA STRONG PIPE
	P.J.P.	PARTIAL JOINT PENETRATION (GROOVE WELD)
	PL	PLATE
	P.L.	PROPERTY LINE
	PLWD.	PLYWOOD
	PLYWD	PLYWOOD
	P.P.	PARTIAL PENETRATION (WELD)
	PREFAB.	PREFABRICATE(D)
	PRELIM.	PRELIMINARY
	PRESTR.	PRESTRESSED
	PREV.	PREVIOUS(LY)
	PROJ.	PROJECT (ED) (ING) (ION)
	PSF	POUNDS PER SQUARE FOOT
	PSI	POUNDS PER SQUARE INCH
	PSL	PARALLEL STRAND LUMBER
	PT	POINT
	P.T.	POST-TENSION(ED)(ING)
R		
	(R)	REUSED
	RAD.	RADIUS
	RB	ROUND BAR (STEEL SHAPE)
	R.C.	REINFORCED CONCRETE
	REINF.	REINFORC(ED)(ING)
	REBAR	REINFORCING BAR
	REF.	REFERENCE
	REQ'D	REQUIRED
	RET.	RETAINING
	REV.	REVIS(E)(ION)
	RF	ROOF
	RFG	ROOFING
	RND	ROUND
	R.O.	ROUGH OPENING
	RW	REDWOOD

S		
	S.A.D.	SEE ARCHITECTURAL DRAWINGS
	S.B.	SOLID BLOCKING
	S.C.D.	SEE CIVIL DRAWINGS
	SCHED.	SCHEDULE
	SDS	SIMPSON STRONG-DRIVE SCREW, INSTALLED PER ICC ESR-2236
	SECT.	SECTION
	S.E.D.	SEE ELECTRICAL DRAWINGS
	SEOR	STRUCTURAL ENGINEER OF RECORD
	SEP.	SEPARATION
	SFHCS	SOCKET FLAT HEAD CAP SCREW
	SHT	SHEET
	SHTG	SHEATHING
	SIM.	SIMILAR
	S.L.B.B.	SHORT LEGS BACK TO BACK
	S.L.D.	SEE LANDSCAPE DRAWINGS
	SLRS	SEISMIC LOAD RESISTING SYSTEM
	S.M.D.	SEE MECHANICAL DRAWINGS
	S.M.S.	SHEET METAL SCREW
	S.O.G.	SLAB ON GRADE
	SP	SOUTHERN PINE (WOOD)
	SPC.	SPAC (ES)(ING)
	S.P.D.	SEE PLUMBING DRAWINGS
	SPEC(S).	SPECIFICATION(S)
	SQ.	SQUARE
	S.S.	STAINLESS STEEL
	S.S.	SHORT SLOTTED (HOLE)
	SSLT.	SHORT SLOTTED (HOLE)
	ST	AMERICAN STANDARD TEE (STEEL SHAPE)
	STAG.	STAGGER(ED)
	STAGG.	STAGGER(ED)
	STD	STANDARD
	STFNR.	STIFFENER
	STL	STEEL
	STRUC.	STRUCTURAL
	SUP.	SUPPORT
	SUSP.	SUSPENDED
	SYM.,SYMM.	SYMMETRICAL
T		
	T&B	TOP & BOTTOM
	T&G	TONGUE & GROOVE
	T.B.D.	TO BE DETERMINED
	TD	TIE DOWN
	THD	THREADED
	THK	THICK(NESS)
	THRD	THREADED
	THRU	THROUGH
	T.L.	TOP LOWER
	T.N.	TOE NAIL
	T.O.	TOP OF
	T.O.C.	TOP OF CONCRETE ELEVATION
	T.O.F.	TOP OF FOOTING
	T.O.S.	TOP OF STEEL
	TS	TUBE STEEL
	T.U.	TOP UPPER
	TYP.	TYPICAL
U		
	U.O.N.	UNLESS OTHERWISE NOTED
	URM	UNREINFORCED MASONRY
V		
	(V),	VERT.VERTICAL
	VOL.	VOLUME
	V.I.F.	VERIFY IN FIELD
	V.W.M.	VERIFY W/ MANUF.
W		
	W/	WITH
	WD	WOOD
	WF	WIDE FLANGE
	W.H.	WEB HORIZONTAL
	W/IN	WITH IN
	WKG	WORKING
	W.O.	WHERE OCCURS
	W/O	WITHOUT
	W.P.	WORK POINT
	WPFG	WATERPROOFING
	WT	WIDE-FLANGE TEE (STEEL SHAPE)
	WT.	WEIGHT
	W.W.F.	WELDED WIRE FABRIC
X		
	XS	EXTRA STRONG (PIPE)
	XXS DOUBLE	EXTRA STRONG (PIPE)

SPECIAL CHARACTERS

&	AND
∠	ANGLE (MEASUREMENT)
@	AT
℄	CENTER LINE
Ø	DIAMETER OR ROUND
//	PARALLEL
⊥	PERPENDICULAR
ℙ	PROPERTY LINE
#	POUND OR NUMBER
±	TOLERANCE

OTHER ABBREVIATIONS (PRODUCT ABBREVIATIONS):

FOR WOOD FRAMING FASTENER AND CONNECTOR ABBREVIATIONS, SEE SIMPSON STRONG-TIE WOOD CONSTRUCTION CONNECTORS CATALOG (available at www.strongtie.com).

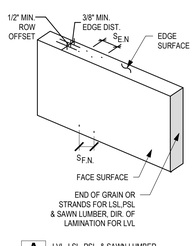
FOR POWDER-DRIVEN FASTENERS AND CONCRETE ANCHOR ABBREVIATIONS, SEE HILTI NORTH AMERICAN PRODUCT TECHNICAL GUIDE (available at www.us.hilti.com) AND SIMPSON STRONG-TIE ANCHOR SYSTEMS CATALOG (available at www.strongtie.com).

FOR LIGHT-GAUGE STEEL CONNECTOR ABBREVIATIONS, SEE STEEL NETWORK LIGHT STEEL FRAMING CONNECTION CATALOG (available at www.steelnetwork.com) AND SIMPSON STRONG-TIE COLD-FORMED STEEL CONNECTORS CATALOG (available at www.strongtie.com).

FOR ENGINEERED WOOD PRODUCT ABBREVIATIONS, SEE iLEVEL CATALOG (available at www.ilevel.com), LP BUILDING PRODUCTS CATALOG (available at www.lpcorp.com), REDBUILT CATALOG (available at www.redbuilt.com), AND STANDARD STRUCTURES, INC., CATALOG (available at www.standardstructures.com)

B4. STRUCTURAL ABBREVIATIONS

MINIMUM NAIL SPACING						
NAIL TYPE	1 1/2" THK. MIN. PSL		1 1/2" THK. MIN. LSL		1 1/2" THK. MIN. SAWN LUMBER	
	$S_{E.N.}$	$S_{F.N.}$	$S_{E.N.}$	$S_{F.N.}$	$S_{E.N.}$	$S_{F.N.}$
8d BOX	3"	2"	3"	2"	2"	4"
8d COMMON	3"	2"	3"	2"	2"	6"
10d BOX	4"	2"	4"	2"	2"	6"
10d COMMON	4"	3"	4"	2 1/2"	2 1/2"	6"
12d BOX	4"	2"	6"	2"	2"	6"
12d COMMON	4"	3"	6"	2 1/2"	2 1/2"	6"
16d BOX	4"	3"	6"	2 1/2"	2 1/2"	6"
16d SINKER	4"	3"	6"	2 1/2"	2 1/2"	6"
16d COMMON	6"	4"	6"	3"	4"	8"



A LVL, LSL, PSL, & SAWN LUMBER

NOTES:

1. LVL, PSL, LSL SEE MFG LITERATURE FOR ADDITIONAL INFO
2. FOR MULTIPLE ROWS, 10d COMMON MAXIMUM SIZE FASTENER @ MINIMUM 3" O.C. STAGGERED & OFFSET ROWS BY MINMUM 1/2"

D2. NAILING SPACING SCHEDULE

STUDS, JOISTS, HEADERS, ETC.

NAILING SCHEDULE		
CONNECTION	FASTENER	NUMBER OR SPACING
BRIDGING TO JOIST TOE NAIL EACH END	8D COMMON	2
JOIST TO SILL OR GIRDER TOE NAIL	8D COMMON	3
1"x6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL	8D COMMON	2
WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST, FACE NAIL	8D COMMON	3
2-INCH SUBFLOOR TO JOIST OR GIRDER, BLIND & FACE NAIL	16D COMMON	2
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16D COMMON	16" O.C.
TOP OR SOLE PLATE TO STUD, END NAILED	16D COMMON	2
STUD TO SOLE PLATE, TOE NAIL	8D COMMON	4
DOUBLED STUDS, FACE NAIL	16D COMMON	24" O.C.
DOUBLED TOP PLATES, FACE NAIL	16D COMMON	16" O.C.
BLOCKING BETWEEN JOISTS TO TOP PLATE, TOE NAIL	8D COMMON	3
RIM JOIST TO TOP PLATE, TOE NAIL	8D COMMON	6" O.C.
TOP PLATES, LAP AND INTERSECTIONS FACE NAIL	16D COMMON	2
CONTINUOUS HEADER, TWO PIECES	16D COMMON	16" O.C. ALONG EACH EDGE
CEILING JOISTS TO PLATES, TOE NAIL	8D COMMON	3
CONTINUOUS HEADER TO STUD, TOE NAIL	8D COMMON	4
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	16D COMMON, MIN	3
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	16D COMMON, MIN	3
RAFTER TO PLATE, TOE NAIL	8D COMMON	3
1-INCH BRACE TO EACH STUD & PLATE, FACE NAIL	8D COMMON	2
1"x8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL	8D COMMON	3
WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL	8D COMMON	3
BUILT-UP CORNER STUDS EACH BEARING, FACE NAIL	16D COMMON	24" O.C.
BUILT-UP GIRDERS & BEAMS, FACE NAIL	20D COMMON	32" O.C. AT TOP & BOTTOM STAGGERED ON OPPOSITE SIDES
2-INCH PLANKS	16D COMMON	AT EACH BEARING
JOIST TO BAND JOIST, FACE NAIL	16D COMMON	3
LEDGER STRIP, FACE NAIL	16D COMMON	3 AT EACH JOIST

B2. NAILING SCHEDULE

SHEATHING @ NON-SHEAR WALL LOCATIONS

PLYWOOD AND O.S.B. BOARD WALL SHEATHING		
THICKNESS	FASTENER	NUMBER OR SPACING
1/2" OR LESS	6D COMMON	6" O.C. EDGES AND 12" O.C. INTERMEDIATE
5/16", 1/2"	16 GA GALVANIZED WIRE STAPLES, 3/8" MINIMUM CROWN	4" O.C. EDGES AND 8" O.C. INTERMEDIATE

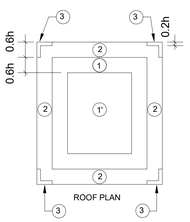
FIBERBOARD AND GYPSUM WALL SHEATHING		
THICKNESS	FASTENER	NUMBER OR SPACING
1/2" FIBERBOARD SHEATHING	1 1/2" GALVANIZED ROOFING NAIL 6D COMMON WALL	3" O.C. AT EDGES / 6" O.C. AT OTHER BEARING
1/2" GYPSUM SHEATHING	11 GA 1 1/2" GALVANIZED 7/16" HEAD	4" O.C. AT EDGES / 8" O.C. AT OTHER BEARING
1/2" GYPSUM WALLBOARD	1 3/8" DRY- WALL NAIL	7" O.C. ON CEILING / 8" O.C. ON WALLS

NOTES:

1. FOR ALL EXTERIOR WOOD STUD WALLS NOT DESIGNATED AS SHEAR WALLS PROVIDE 1/2" THICK STRUCT I PLYWOOD SHEATHING W/ 8d NAILS @ 6" O.C. @ PANEL EDGES, AND @ 12" O.C. @ FIELD AT EXTERIOR FACES (INCLUDING CANOPIES).
2. FOR ALL EXTERIOR METAL STUD WALLS NOT DESIGNATED AS SHEAR WALLS ATTACH PANELS w/ #8 SCREWS @ 6" O.C. @ PANEL EDGES, AND @ 12" O.C. @ FIELD AT EXTERIOR FACES (INCLUDING CANOPIES). SEE ARCH FOR PANEL MATERIAL.
3. PROVIDE 1/2" THICK STRUCT I PLYWOOD SHEATHING W/ 8d NAILS @ 6" O.C. @ PANEL EDGES, AND @ 12" O.C. @ FIELD FOR EAVES AND CANOPY CEILINGS.

A2. NAILING SCHEDULE

COMPONENTS & CLADDING EXTERNAL PRESSURE LOADS (PSF)					
WL = 114 MPH ULT					
EFFECTIVE WIND AREA (FT²)	IBC 2018: LOCATION PER ASCE 7-16: FIGURE 30.3-2A				
	1	1'	2	3	
<10	16.0 -45.5	16.0 -26.2	26.2 -60.1	26.2 -60.1	
20	16.0 -42.5	16.0 -26.2	25.0 -56.2	25.0 -56.2	
50	16.0 -38.6	16.0 -26.2	23.5 -51.1	23.5 -51.1	
100	16.0 -35.6	16.0 -26.2	22.3 -47.2	22.3 -47.2	
250	16.0 -31.6	16.0 -21.3	20.8 -42.1	20.8 -42.1	



NOTES:

1. CONSIDER h = 15.5 FT FOR CALCULATIONS OF ZONE WIDTH.
2. POSITIVE PRESSURE VALUES REFER TO FORCES ACTING TOWARD BUILDING, NEGATIVE PRESSURE VALUES REFER TO FORCES ACTING AWAY FROM BUILDING.
3. EACH COMPONENT MUST BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE FORCES.
4. FOR COMPONENTS HAVING EFFECTIVE AREAS IN BETWEEN TABULATED VALUES, DESIGN LOADS MAY BE INTERPOLATED. OTHERWISE DESIGN LOAD MUST BE TAKEN FROM THE NEXT LOWEST EFFECTIVE AREA.

D1. WIND LOADS

1. CONCRETE CONSTRUCTION:
   A. VERIFY USE OF REQUIRED DESIGN MIX.
   B. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.
   C. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION OF THE CONCRETE.
   D. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.

C1. TESTING

1. THE OWNER SHALL EMPLOY THE SERVICES OF ONE OR MORE SPECIAL INSPECTORS TO PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR THE FOLLOWING:
   A. SHALLOW FOUNDATIONS:
      1. INSPECT SOILS BELOW FOOTINGS FOR ADEQUATE BEARING CAPACITY AND CONSISTENCY WITH GEOTECHNICAL REPORT.
      2. INSPECT REMOVAL OF UNSUITABLE MATERIAL AND PREPARATION OF SUBGRADE PRIOR TO PLACEMENT OF CONTROLLED FILL.
   B. CONTROLLED STRUCTURAL FILL:
      1. PERFORM SIEVE TESTS (ASTM D422 & D1140) AND STANDARD PROCTOR TESTS (ASTM D1557) ON EACH SOURCE OF FILL MATERIAL.
      2. INSPECT PLACEMENT, LIFT THICKNESS & COMPACTION OF CONTROLLED FILL.
      3. TEST DENSITY OF EACH LIFT OF FILL BY NUCLEAR METHODS (ASTM D2922).
      4. VERIFY EXTENT AND SLOPE OF FILL PLACEMENT.
   C. STRUCTURAL STEEL:
      1. REVIEW SHOP FABRICATION AND QUALITY CONTROL PROCEDURES.
      2. REVIEW CERTIFIED MILL TEST REPORTS & IDENTIFICATION MARKINGS ON HSS SHAPES.
      3. INSPECT INSTALLATION AND TIGHTENING OF HIGH-STRENGTH BOLTS. VERIFY THAT SPLINES HAVE SEPARATED FROM TENSION CONTROL BOLTS. VERIFY PROPER TIGHTENING SEQUENCE.
      4. INSPECT STEEL FRAME FOR COMPLIANCE WITH STRUCTURAL DRAWINGS, INCLUDING BRACING, MEMBER CONFIGURATIONS AND CONNECTION DETAILS.
   D. WOOD CONSTRUCTION:
      1. INSPECT SHOP FABRICATION AND QUALITY CONTROL PROCEDURES FOR WOOD TRUSS PLANT.
      2. INSPECT SIZE, CONFIGURATION, BLOCKING AND FASTENING OF SHEARWALLS AND DIAPHRAGMS. VERIFY PANEL GRADE AND THICKNESS.
   E. DRILL & EPOXY BOLTS:
      1. PERIODIC OR CONTINUOUS INSPECTIONS PER THE REQUIREMENTS OF THE ICC-ES
   F. MASONRY:
      1. PERIODIC VERIFICATION OF f'm AND FAAC PRIOR TO CONSTRUCTION.
      2. PERIODIC VERIFICATION OF SITE-MIXED MORTAR AND GROUT.
      3. PERIODIC VERIFICATION OF GRADE, TYPE AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS.
      4. PERIODIC VERIFICATION OF CONSTRUCTION OF MORTAR JOINTS, PLACEMENT OF REINFORCEMENT, GROUT SPACE, PLACEMENT OF GROUT, SIZE AND LOCATION OF MASONRY ELEMENTS.
      5. PERIODIC VERIFICATION OF SIZE, TYPE AND LOCATION OF ANCHORS.
      5. PREPARE GROUT AND MORTAR SPECIMENTS; PERIODICALLY OBSERVE PREPARATION OF PRISMS.
2. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
3. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
   A. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE INSPECTOR MAY NOT ALTER, MODIFY, ENLARGE OR WAIVE ANY OF THE REQUIREMENTS OF THE DOCUMENTS.
   B. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE PROFESSIONAL OF RECORD, AND THE CONTRACTOR. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, SUBMIT A COMPLETE LIST OF ALL OUTSTANDING DISCREPANCIES ON A WEEKLY BASIS TO THE OWNER, THE BUILDING OFFICIAL, AND THE PROFESSIONAL OF RECORD UNTIL ALL CORRECTIONS HAVE BEEN COMPLETED.
   C. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.
4. STRUCTURAL OBSERVATION BY THE SEOR IS NOT REQUIRED.
5. WHERE SPECIAL INSPECTION REQUIREMENTS DUPLICATE THE REQUIREMENTS OF SPECIFIED QUALITY ASSURANCE TESTING, DUPLICATE INSPECTIONS SHALL NOT BE REQUIRED.

B1. SPECIAL INSPECTIONS

1. BUILDING STRUCTURE HAS BEEN DESIGNED TO THE FOLLOWING BUILDING CODES: IBC 2018
2. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE LOCAL BUILDING CODE.
3. VERIFY EXISTING CONDITIONS AND DIMENSIONS AND NOTIFY ARCHITECT OF ANY CONDITIONS WHICH DO NOT COMPLY WITH PLANS AND SPECIFICATIONS. STRUCTURAL DRAWINGS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS BY THE CONTRACTOR.
4. CONTRACT DOCUMENTS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS.
5. THE STRUCTURE IS UNSTABLE UNTIL ALL LOAD BEARING WALLS ARE ERECTED AND STEEL MEMBERS ARE ERECTED, CONNECTIONS ARE COMPLETELY BOLTED AND/OR WELDED AND INSPECTED, THE PLYWOODDECK ATTACHED TO THE WOOD FRAMING (ROOF AND SHEAR WALLS), AND THE CONCRETE FLOORS PLACED AND HAVE ATTAINED 75% OF 28-DAY STRENGTH. UNTIL SUCH TIME, TEMPORARY BRACING IS REQUIRED. THE DESIGN ADEQUACY OF TEMPORARY BRACING AND SHORING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
6. FOR LOCATION OF MISCELLANEOUS ITEMS (OPENINGS, BENT PLATES, INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
7. STRUCTURAL DESIGN LOADS:
   LOCAL REQUIREMENTS: IBC 2018

   ROOF DEAD LOAD: 17 PSF - MAIN ROOF
   ROOF LIVE LOADS: 20 PSF FLAT

   SNOW LOADS:
   GROUND SNOW LOAD: 25 PSF
   C_e= 1.0 C_t = 1.0 I = 1.0
   BALANCED SNOW LOAD = 17.5 PSF

   WIND LOADS:
   3 SECOND GUST WIND SPEED: 114 MPH (ULTIMATE)
   I = 1.0
   EXPOSURE: C
   INTERNAL PRESSURE COEFFICIENT (GCPi): +/- 0.18
   COMPONENTS AND CLADDING PRESSURE: SEE SCHEDULE

   SEISMIC LOADS:
   OCCUPANCY CATEGORY II S_{DS} = 0.270 S_1 = 0.057
   SITE CLASS = D S_{DS} = 0.285 S_{D1} = 0.092
   SEISMIC DESIGN CATEGORY = B
   SEISMIC IMPORTANCE FACTOR = 1.0
   BASIC SEISMIC FORCE RESISTING SYSTEM: BEARING WALLS WITH LIGHT-FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
   RESPONSE MODIFICATION COEFFICIENT, R = 6 1/2
   SEISMIC RESPONSE COEFFICIENT (CS) = 0.044; DESIGN BASE SHEAR = 15.8 K

A1. DESIGN AND CODE INFORMATION

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30349-2998

JOHN M. WILLETT P.E.

3528 Habersham @ Northlake
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1/24/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE ALL
RELEASE: 21.11
PRINTED FOR
PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

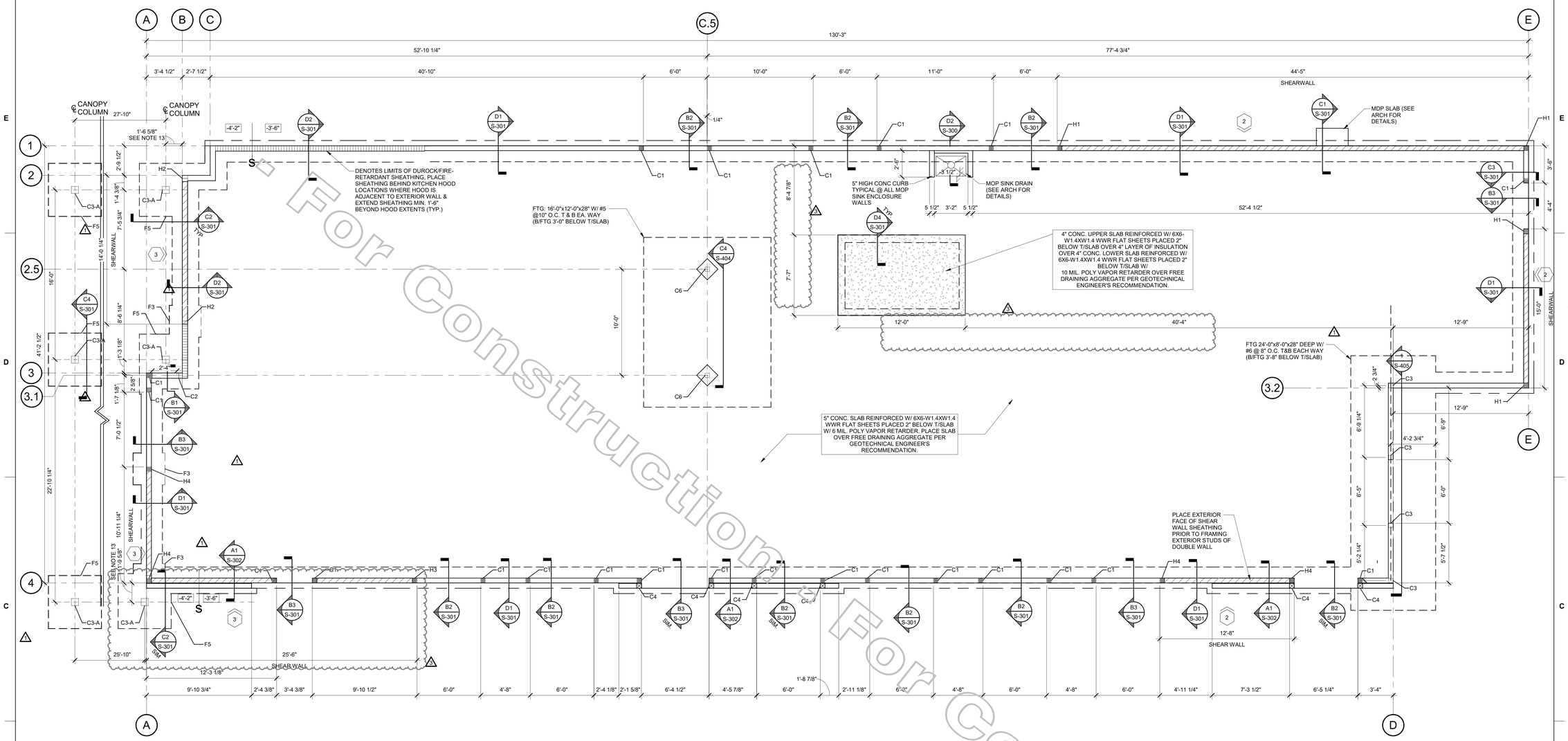
CONSULTANT PROJECT # 222001
DATE 01/24/2022
DRAWN BY JM/LLM

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SHEET
STRUCTURAL NOTES

SHEET NUMBER
S-001

1/25/2022 8:09:33 PM BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_STR_WD_WEC.rvt
20-LE-04591-S-001-STRUCTURAL NOTES



1 FOUNDATION PLAN
1/4" = 1'-0"

SHEARWALL HOLDOWN SCHEDULE		
MARK	END POST	HOLDOWN
H1	5 1/4x5 1/2 LVL	HDU4-SDS2.5
H2	(2)600S350-54 (BACK TO BACK) SEE D1/S-302	S/HDU9
H3	5 1/4x5 1/2 LVL	HDU11-SDS2.5
H4	5 1/4x5 1/2 LVL	HDU8-SDS2.5

2 HOLDOWN SCHEDULE
N.T.S.

SHEAR WALL SCHEDULE								
SYMBOL	PLYWOOD	FASTENER	MINIMUM PENETRATION OF FASTENER	FASTENER SPACING PANEL EDGES	FASTENER SPACING FIELD	FRAMING MEMBER & BLOCKING MEMBER SIZE	ANCHOR BOLT SIZES & SPACING	REFERENCE DETAIL
1	7/16" RATED SHEATHING (OSB)	#10-16 SCREW	N/A	4" O.C.	12" O.C.	600S200-54	HILTI X-U P.A.F. @ 6" O.C. STAGGERED MIN EMBED 1 1/2"	A2/S-300
2	1/2" STRUCT 1 APA RATED, EXT GRADE	10d NAIL	1 1/2"	6" O.C.	12" O.C.	2x6	5/8" DIA A.B. @ 2'-0" O.C. MIN EMBED 7"	A2/S-300
3	1/2" STRUCT 1 APA RATED, EXT GRADE	10d NAIL	1 1/2"	4" O.C.	12" O.C.	2x6	5/8" DIA A.B. @ 16" O.C. MIN EMBED 7"	A2/S-300

NOTES:
1. PROVIDE 4 1/2x4 1/2x0.229" PLATE WASHERS W/ 1-3/4" SLOT & STANDARD CUT WASHERS @ ALL ANCHORS BOLTS.
2. SEE A3, A4, AND AS/S-301 FOR ADDITIONAL SHEARWALL FRAMING REQUIREMENTS

3 SHEAR WALL SCHEDULE
N.T.S.

COLUMN SCHEDULE			
MARK	TYPE	SIZE	COLUMN BASE
C1	Wood-Redbuilt-RedLam ™ LVL	5 1/4x5 1/2	HDU4-SDS2.5
C2	Metal - Light Gauge	(2)600S200-54 BACK-TO-BACK SEE A1/S-302	S/HDU4
C3	Metal - Light Gauge	HSS 5X5X1/4	SEE A4 / S-403
C3-A	CANOPY COLUMN	BY OTHERS	BY OTHERS
C4	SYP	6x6 SYP POST	HDU4-SDS2.5
C6	ASTM A500, GRADE B	HSS5x5x5/16	SEE C4/S-404

NOTES:
1. CANOPY COLUMN LOADS C3-A
   LOAD CASE: (SHEAR VX, AXIAL, SHEAR VZ, MX, MZ)
   DEAD LOAD: (0, 3.60 K, 1.20 K, 4.44 K-FT, 0)
   ROOF LIVE LOAD: (0, 8.52 K, 3.12 K, 12.0 K-FT, 0)
   SNOW LOAD: (0, 8.04 K, 3.0 K, 10.92 K-FT, 0)
   WL-X DIR (ULT): (±0.54 K, 0, 0, 0, ±4.5 K-FT)
   WL-Y DIR (ULT): (0, ±7.80 K, ±3.0 K, +/-10.80 K-FT, 0)

   CANOPY COLUMN LOADS C3-B
   LOAD CASE: (SHEAR VX, AXIAL, SHEAR VZ, MX, MZ)
   DEAD LOAD: (0, 0.70 K, 0, 0, 0.30 K-FT)
   ROOF LIVE LOAD: (0, 0.404 K, 0, 0, 0.5 K-FT)
   SNOW LOAD: (0, 0.40 K, 0, 0, 0.50 K-FT)
   WL-X DIR (ULT): (±0.48 K, 0, 0, 0, ±4.04 K-FT)
   WL-Y DIR (ULT): (0, ±0.62 K, ±0.34 K, +/-2.53 K-FT, +/-2.53 K-FT)
2. '+' AXIAL REACTION DENOTES DOWNWARD REACTION AND '-' DENOTES UPLIFT
3. IF CANOPY COLUMN LOADS DIFFER FROM LISTED VALUES CANOPY MFR SHALL NOTIFY EOR. IF CANOPY COLUMN LOADS DIFFER FROM LISTED VALUES CANOPY SUPPORT FOOTINGS ARE SUBJECT TO CHANGE.

4 COLUMN SCHEDULE
N.T.S.

FOUNDATION SCHEDULE			
MARK	FTR. SIZE	FTG. THICKNESS	REINFORCEMENT
F3	3'-0"x3'-0"	15"	(4) #5 EACH WAY BOTTOM
F5	5'-0"x5'-0"	26"	(6) #5 EACH WAY T&B

5 FOOTING SCHEDULE
N.T.S.

LEGEND:	
	INDICATES SHEAR WALL, SEE SHEAR WALL SCHEDULE
1	SHEAR WALL #, SEE SHEAR WALL SCHEDULE

6 LEGEND
N.T.S.

FOUNDATION NOTES:
1. BOTTOM OF EXTERIOR FTG. = 3'-0" BELOW FINISH GRADE ELEV. U.N.O.
2. SEE ARCH. DWG FOR ANY WALL LOCATIONS AND/OR DIMENSIONS NOT SHOWN.
3. SEE CS/S-300 FOR SLAB CONTROL JOINTS AND 1/S-211 FOR CONTROL JOINT LAYOUT.
4. SEE WALL STUD PLAN ON S-231 FOR STUD SIZE AND SPACING.
5. ALL ANCHORS, CLIPS, STRAPS, ETC. WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, A/O ARE LESS THEN 3/8" THICK, SHALL BE SIMPSON ZMAX (G185), STAINLESS STEEL OR AN ENGINEERED APPROVED EQUAL.
6. ALL FASTENERS WHICH ARE IN CONTACT W ITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8" DIAMETER SHALL BE G185 (A HEAVY COATED GALVANIZED) STAINLESS OR AN ENGINEERED APPROVED EQUAL.
7. FOUNDATION DESIGN IS BASED ON THE WHITESTONE ASSOCIATES GEOTECHNICAL REPORT DATED JAN 10, 2020, PROJECT NO. GM1916880.000. A GEOTECHNICAL ENGINEER SHALL BE EMPLOYED PRIOR TO THE START OF CONSTRUCTION TO INVESTIGATE SUBSURFACE CONDITIONS. IF THE GEOTECHNICAL REPORT INDICATES THAT THESE ASSUMPTIONS LISTED BELOW ARE INCORRECT PLEASE NOTIFY ENGINEER IMMEDIATELY.
8. INDIVIDUAL FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF SUPPORTING 4000 PSF. CONTINUOUS FOOTINGS ARE DESIGNED TO BEAR ON SOIL CAPABLE OF SUPPORTING 4000 PSF. DESIGN ASSUMES DIFFERENTIAL AND TOTAL SETTLEMENT ARE WITHIN ACCEPTED TOLERANCES FOR THE TYPE OF CONSTRUCTION USED. LIGHT POLE FOOTINGS ARE DESIGNED BASED ON A MINIMUM OF 150 PSF/FT SOIL PASSIVE PRESSURE.
9. THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE BUILDING LIMITS BY A REGISTERED GEOTECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 3'-0" MINIMUM BELOW FINISHED GRADE.
10. WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN AND MAY BE EXPOSED TO RAINFALL, THE EXCAVATIONS SHALL BE UNDERCUT AND A 4 INCH THICK MUD MAT OF 2000 PSI CONCRETE SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS PER GEOTECHNICAL ENGINEER RECOMMENDATIONS.
11. ⊕ INDICATES APPROXIMATE LOCATION OF FOOTING STEP. WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS. SEE C1/S-300 FOR DETAIL.
12. [X.X'] INDICATES BOTTOM OF FOOTING ELEVATION FROM F.F.
13. CENTER FOOTINGS BELOW CANOPY COLUMNS. CONTRACTOR TO COORDINATE WITH DIMENSIONS SHOWN IN CANOPY SHOP DRAWINGS. PER GEOTECHNICAL RECOMMENDATIONS, CANOPY INSTALLED WITH SPREAD FOOTINGS WHICH ARE DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF SUPPORTING 4000 PSF.

7 FOUNDATION NOTES
N.T.S.

For Construction

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STATE OF NEW JERSEY
JOHN M. WILLETT
No. CE 045993
LICENSED PROFESSIONAL ENGINEER
7/22/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	03-29-22	DESIGN NOTES
3	07-22-22	DESIGN NOTES

CONSULTANT PROJECT # 222001
DATE 07/22/2022
DRAWN BY JM/LLM

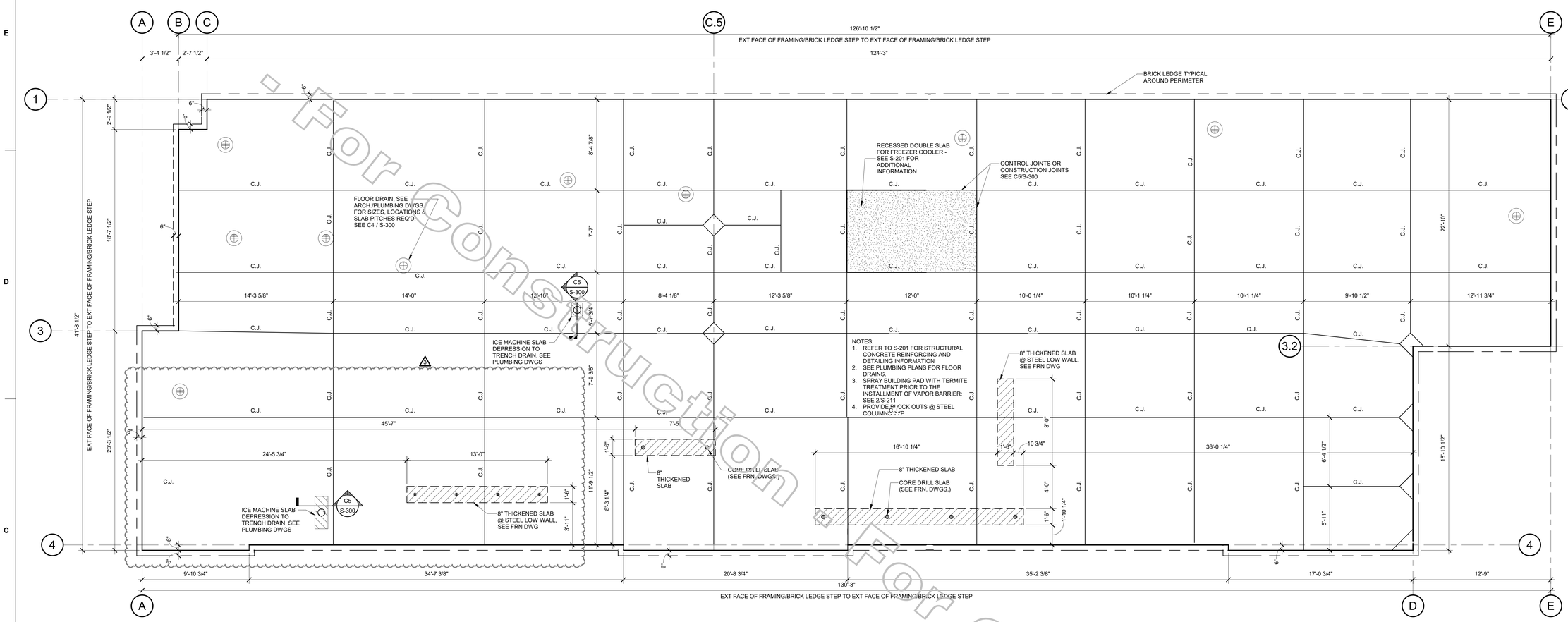
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CONSTRUCTION

SHEET
FOUNDATION PLAN

SHEET NUMBER
S-201

8/31/2022 1:40:21 PM BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_STR_WD_WEC.rvt
20-LE-04591-S-201-FOUNDATION PLAN



1 SLAB & BRICK LEDGE LAYOUT PLAN
1/4" = 1'-0"

SLAB LEGEND	
X'-XX"	SLAB DEPRESSION; SEE FOUNDATION PLAN FOR ADDITIONAL INFO.
	DRAIN W/ SLOPE, SLOPE SLAB TO DRAIN FROM DRAIN PERIMETER PER PLUMBING GUIDELINES; SEE D1/S-300 FOR DETAIL.
	DRAIN W/O SLOPE
	PLUMBING & EQUIPMENT DRAINS (FOR REFERENCE ONLY); SEE PLUMBING DRAWINGS FOR EXACT LOCATIONS.
	CLEANOUT; SEE ARCH DRAWINGS FOR PLACEMENTS.

2 SLAB LEGEND
N.T.S.

THESE SAMPLE INSTALLATION INSTRUCTION RECOMMENDATIONS HAVE BEEN PROVIDED TO THE OWNER BY THE FREEZER MFG AND ARE PROVIDED HERE FOR REFERENCE ONLY. FREEZER MFG MAINTAINS ULTIMATE RESPONSIBILITY FOR INSTALLATION PROCEDURE AND FREEZER FLOOR ASSEMBLY FOR THE CONDITIONS OF THIS PROJECT.

FREEZER SLAB INSTALLATION INSTRUCTIONS:

REQUIRED ITEMS (PROVIDED & INSTALLED BY CONTRACTOR):
(6) 4' X 8' X 2" SLAB INSULATION
(1) ROLL OF DUCT TAPE
(1) ROLL OF 10 MIL VAPOR BARRIER
(1) LOT OF 2X10 TREATED BOARDS RIPPED DOWN TO FIT 8" RECESS

INSTALLATION STEPS:
1. CONCRETE PIT INSPECTION & PREPARATION-
   - ENSURE THAT CONCRETE "INSULATION PIT" IS FLAT AND SQUARE, FREE OF MOISTURE, AND CLEAR OF ALL CONSTRUCTION DEBRIS BEFORE INSTALLING (2) LAYERS OF 10 MIL VAPOR BARRIER SHEETS.
   - BROOM SWEEP OR SHOP VACUUM AS NECESSARY.
   - PROVIDE PHOTO OF CLEAN AND DRY PIT.
2. INSTALL (2) LAYERS OF 10 MIL VAPOR BARRIER SHEETS, APPLY ONE LAYER PERPENDICULAR TO THE OTHER.
   - ALL JOINTS TO BE OVERLAPPED 2" MINIMUM.
   - ALL JOINTS TO BE TAPED.
   - VAPOR BARRIER SHEETS TO BE INSTALLED IN BOTTOM OF PIT AND CONTINUE VERTICALLY TO GRADE LEVEL BEHIND PRESSURE TREATED (PT) MEMBERS.
   - PROVIDE MULTIPLE PHOTOS OF VAPOR BARRIER ASSEMBLY BEFORE INSTALLING PT MEMBERS.
   *NOTE: IT IS EXTREMELY **IMPORTANT** THAT VAPOR BARRIER IS NOT TORN, CUT OR COMPROMISED DURING INSTALLATION. THE GOAL IS TO MAINTAIN A "NON-PERMEABLE" ASSEMBLY.*
3. INSTALL (2) 2" x 10" PRESSURE TREATED (PT) PERIMETER MEMBERS-
   - PTs SHALL BE CUT TO MATCH HEIGHT OF FINISHED CONCRETE SLAB.
   - PTs MUST BE LEVEL WITHIN 1/8" RISE OVER RUN PER 10FT.
   *NOTE: PTs MUST BE **EVEN** WITH FINISHED CONCRETE.*
4. INSTALL TWO 2" THICK FOAMULAR 400 / R-5 PER INCH INSULATED PANELS (4" TOTAL THICKNESS)
   - TAPE ALL BUTT JOINTS.
   - 1ST LAYER OF 2" PANELS, THEN 2ND LAYER OF 2" PANELS TO BE ROTATED 90° TO BOTTOM PANEL. SEE FLOORLESS DETAIL ON COOLER PROVIDER DRAWINGS.
   - TAKE MULTIPLE PHOTOS OF SLAB INSULATION ASSEMBLY.
   - POUR 4" OF CONCRETE AND ALLOW TO CURE. SEE FOUNDATION DETAILS FOR SLAB REINFORCING.
   - ADD TILE AND GROUT PER ARCH. DWGS.

3 FREEZER SLAB INSTALLATION INSTRUCTIONS
N.T.S.

NATIONAL ACCOUNT TO PRE-TREAT SLABS: RENTOKIL
ACCOUNT CONTACT:
EMAIL: CFA@RENTOKIL.COM
PHONE: (877) 764-0007

PROCEDURE:
1. GENERAL CONTRACTOR SHALL CONTACT ACCOUNT REPRESENTATIVE 48-72 HOURS BEFORE THE SLAB IS TO BE PLACED.
2. PROVIDE THE LOCATION NUMBER, FULL PROJECT ADDRESS, CFA STORE NUMBER, SQUARE FOOTAGE OF AREA TO BE TREATED, CONTACT INFO AND BILLING ADDRESS OF THE GENERAL CONTRACTOR.
3. AFTER TREATMENT, RENTOKIL WILL CREATE A REPORT OF SERVICE UNDER THE LOCAL STATE GUIDELINES AND WILL PROVIDE THAT TO THE GENERAL CONTRACTOR THAT SHOULD THEN PROVIDE THE REPORT TO CFA.

4 TERMITE TREATMENT
N.T.S.

For Construction

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

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STATE OF NEW JERSEY
JOHN M. WILLETT
No. CE 045993
LICENSED PROFESSIONAL ENGINEER
7/22/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	07-22-22	DESIGN NOTES

CONSTRUCTION

CONSULTANT PROJECT # 222001
DATE 07/22/2022
DRAWN BY JM/LLM

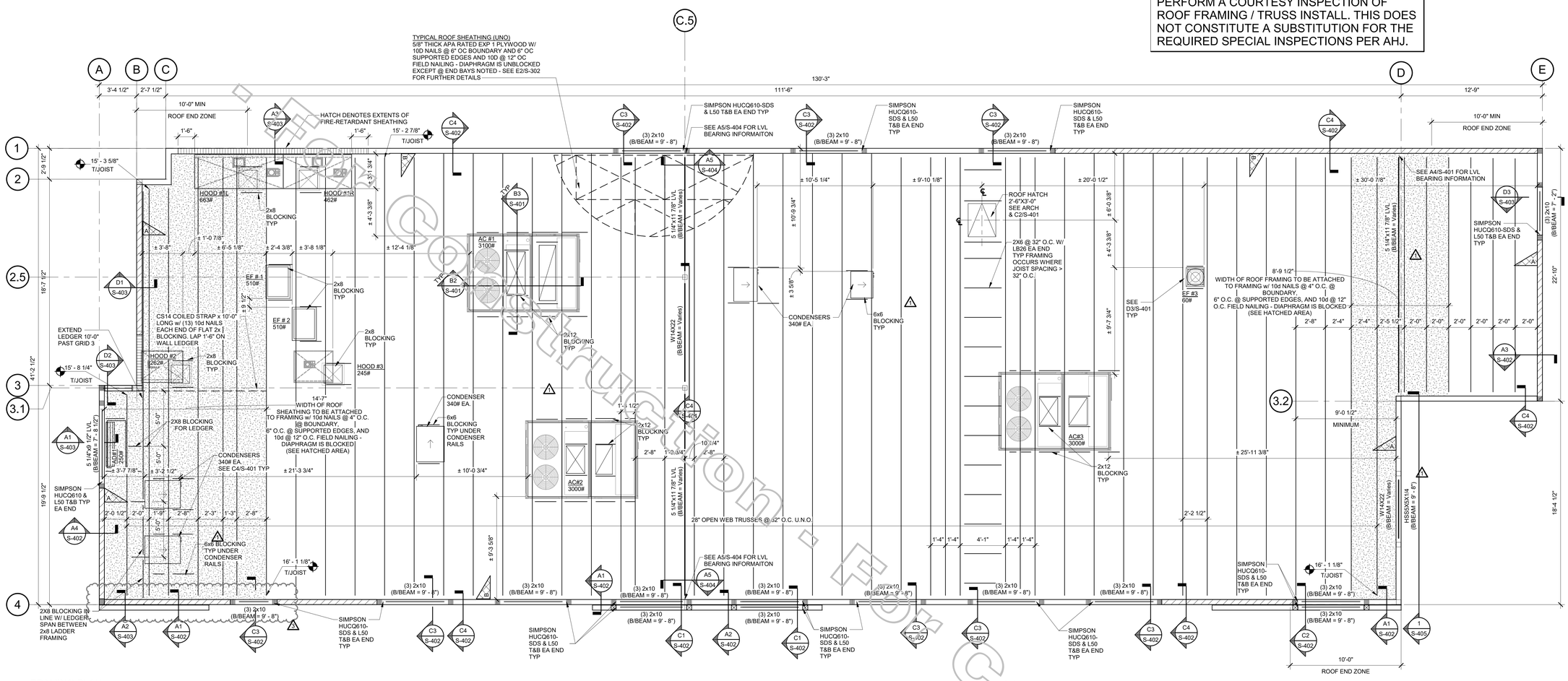
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SHEET
SLAB & BRICK LEDGE LAYOUT PLAN

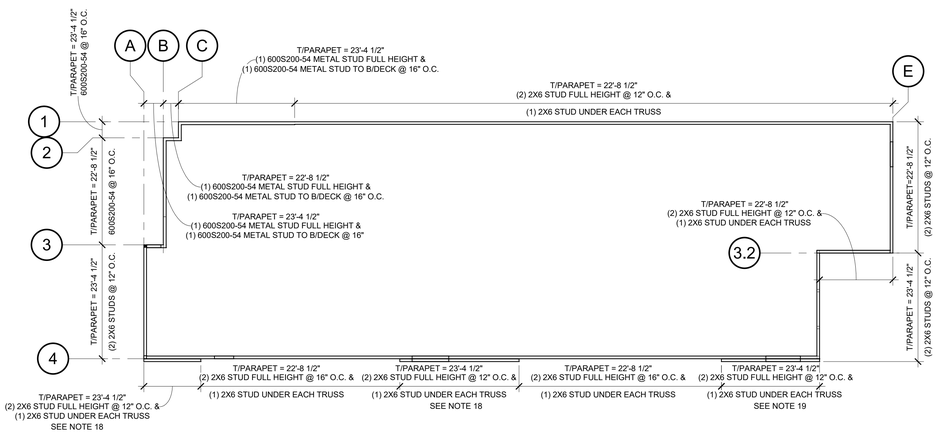
SHEET NUMBER
S-211

8/31/2022 1:40:22 PM BIM 360://NJ_04591 West Pond_2020.11_FSR(04591)_West Pond_STR_WD_WEC.rvt
20-LE-04591-S-211-SLAB & BRICK LEDGE LAYOUT PLAN

GC NOTE:
GENERAL CONTRACTOR SHALL CONTACT ROOF FRAMING PROVIDER, PER CONTACT REPRESENTATIVE ON SHEET G-004, TO PERFORM A COURTESY INSPECTION OF ROOF FRAMING / TRUSS INSTALL. THIS DOES NOT CONSTITUTE A SUBSTITUTION FOR THE REQUIRED SPECIAL INSPECTIONS PER AHJ.



1 FRAMING PLAN
1/4" = 1'-0"



2 WALL STUD FRAMING PLAN
3/32" = 1'-0"

1) (+xx'-x") INDICATES TOP OF JOIST OR TRUSS ELEVATION.

2) AT ALL (3) 2x HEADERS ABOVE WINDOW AND DOOR OPENINGS PROVIDE 1/2" PLYWOOD BETWEEN EA. HEADER. ATTACH TOGETHER WITH GLUE AND SCREWS AT 6" o.c. T&B.

3) SEE DETAIL E2/S302 FOR ROOF NAILING.

4) SEE D4/S401FOR TYP. HANGER DETAILS.

5) TRUSS AND JOIST MANUFACTURER SHALL DESIGN AND PROVIDE ALL JOISTS AND ERECTION, PERMANENT, AND UPLIFT BRIDGING.

6) SPLICE LEDGERS PER DETAIL E4/S302.

7) OPEN WEB TRUSSES, WOOD I-JOISTS, LVL BEAMS, AND HARDWARE ACCESSORIES SHALL BE BY REDBUILT, LLC 740-368-4227 - CONTACT: ADAM STRITENBERGER. CONTRACTOR TO FOLLOW ALL REDBUILT BRACING INSTALLATION DETAILS AND TO STAGE CONSTRUCTION MATERIALS PER REDBUILT SAFETY GUIDELINES. CONTACT REDBUILT FOR TRUSS INSPECTION PRIOR TO SHEATHING INSTALLATION.

8) DIMENSIONS THIS SHEET ARE TO OUTSIDE FACE OF WOOD PARAPET STUD.

9) ROOF TOP UNIT DIMENSIONS ARE TO INSIDE FACE OF CURB/OUTSIDE FACE OF WOOD PARAPET STUD.

10) FOR ADDITIONAL NAILING REQUIREMENTS SEE SCHEDULE ON S-001.

11) ALL ANCHORS, CLIPS, STRAPS & ETC. WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8" THICK, SHALL BE SIMPSON ZMAX (G185), STAINLESS STEEL OR AN ENGINEERED APPROVED EQUAL.

12) ALL FASTENERS WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8" DIAMETER, SHALL BE G185 (A HEAVY COATED GALVANIZED) STAINLESS OR AN ENGINEERED APPROVED EQUAL.

13) ALL DIMENSIONS TO ROOF TOP UNITS ARE APPROXIMATE. THE UNITS AND CURBS MUST BE LOCATED TO ALLOW PENETRATIONS TO AVOID CONFLICTS WITH FRAMING MEMBERS.

14) SIMPSON CONNECTORS APPLIED TO STEEL COLUMNS SHALL BE SHOP WELDED.

15) ALL WELDS SHALL BE SHOP WELDS. NO ON-SITE WELDING.

16) SEE S-001 FOR COMPONENTS AND CLADDING WIND LOADS FOR ROOF DESIGN.

17) AT ALL ROOF DUCTWORK PENETRATIONS, PROVIDE 4" MINIMUM ROOF DECK OPENING AROUND DUCT DROPS TO ACCOMMODATE INSULATION.

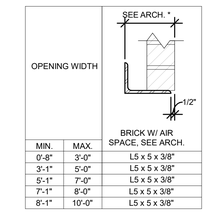
18) AT DOUBLE WALL, WALL STUD SIZE & SPACING SHOWN ON PLAN APPLIES TO THE INTERIOR STUDS. PROVIDE (1) 2X6 FULL HEIGHT STUD AT FURRED WALL. MATCH SPACING PER STUD PLAN. SEE SECTION FOR ADDITIONAL INFORMATION.

3 FRAMING NOTES
N.T.S.

ROOF DESIGN CRITERIA				
DEAD LOADS:			LIVE LOADS: =	20 PSF
ROOFING	=	5.0 PSF		
PLYWOOD	=	2.0 PSF	WIND LOADS: =	SEE
TRUSSES	=	2.0 PSF		S-001 COMPONENTS AND
CEILING	=	2.0 PSF		CLADDING DIAGRAM
INSULATION	=	1.0 PSF		EQUIPMENT LOAD
MISC.	=	1.0 PSF		NOT INCLUDED
SPRINKLERS	=	3.0 PSF		
DEAD LOAD	=	17.0 PSF		

*ADD 6 PSF DL AT DINING ROOM FOR SUSPENDED SOFFIT.

4 ROOF DESIGN CRITERIA
N.T.S.

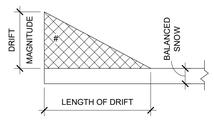


MIN.	MAX.	
0'-8"	3'-0"	L5 x 5 x 3/8"
3'-1"	5'-0"	L5 x 5 x 3/8"
5'-1"	7'-0"	L5 x 5 x 3/8"
7'-1"	8'-0"	L5 x 5 x 3/8"
8'-1"	10'-0"	L5 x 5 x 3/8"

NOTES:
1. 1/2" MAX BRICK OVERHANG.
2. PROVIDE 6" MIN. BEARING AT EACH END OF OPENING, U.N.O.
3. "L" INDICATES ANGLE OR BENT PLATE
4. LOOSE LINTEL SCHEDULE DOES NOT APPLY TO LINTELS WHERE BRICK HEIGHT ABOVE LINTEL IS LESS THAN 1/2 THE SPAN OF THE LOOSE LINTEL.

5 LINTEL SCHEDULE
N.T.S.

SNOW DRIFT INFORMATION: 17.5 PSF BALANCED SNOW LOAD		
SNOW DRIFT	DRIFT MAGNITUDE	LENGTH OF DRIFT
A	49.2 PSF TO 0 PSF	11'-5"
B	27.3 PSF TO 0 PSF	6'-4"



6 SNOW DRIFT
N.T.S.

"Not Construction" - For Construction

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FSR#04591
BUILDING TYPE / SIZE: P13 LE LRG
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PRINTED FOR
CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	03-29-22	DESIGN NOTES
3	07-22-22	DESIGN NOTES

CONSTRUCTION

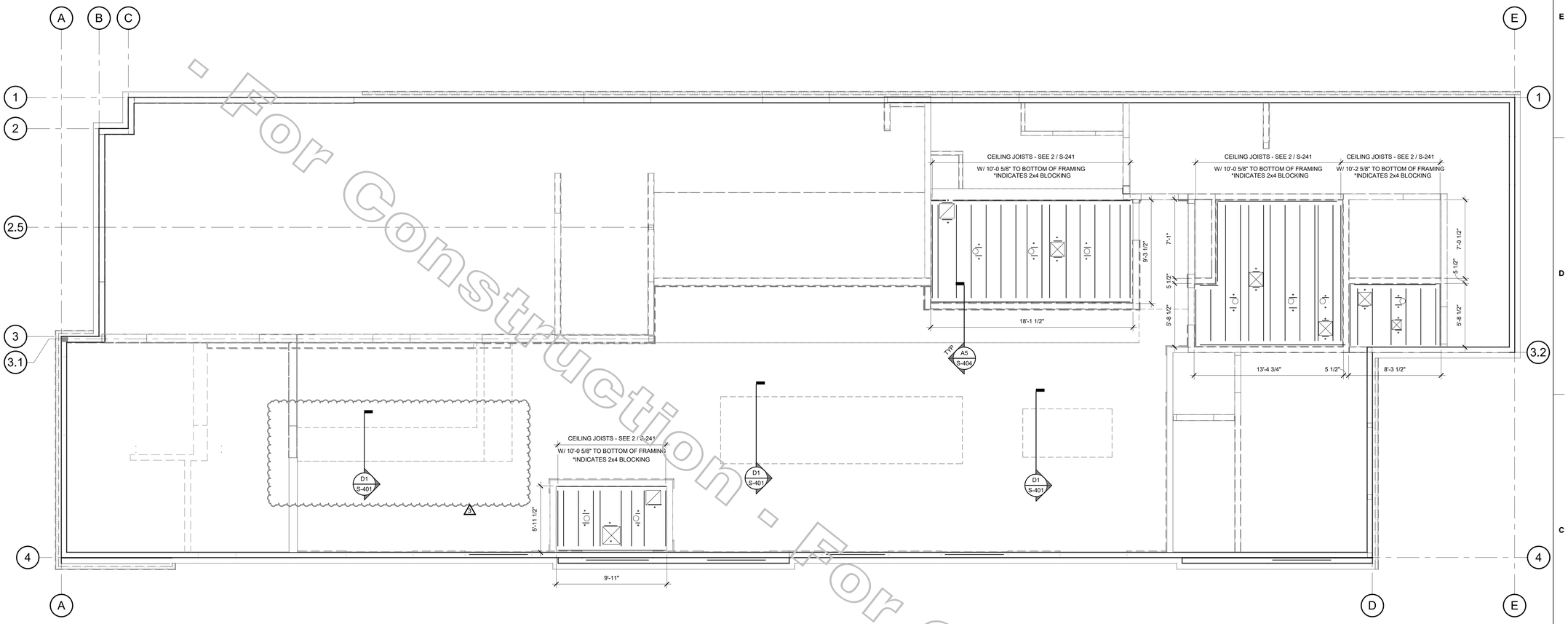
CONSULTANT PROJECT # 222001
DATE 07/22/2022
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SHEET
FRAMING PLAN

SHEET NUMBER
S-231

8/31/2022 1:40:23 PM BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_STR_WD_WEC.rvt
20-LE-04591-S-231-FRAMING PLAN



1 DROPPED CEILING PLAN
1/4" = 1'-0"

CEILING JOIST SCHEDULE					
MIN. SPAN [FT]	MAX SPAN [FT]	JOIST SIZE	SPACING [IN O.C.]	BLOCKING LOCATION	SIMPSON HANGER REQ.
0	8-1/2	2x6	16	N/A	LU26/LUS26
8-1/2	10-1/2	2x6	16	MID SPAN	LU26/LUS26
10-1/2	13	2x8	16	MID SPAN	LU26/LUS26
13	14-1/4	2x8	16	THIRD SPAN	LU26/LUS26
14-1/4	15	2x10	16	MID SPAN	LU28/LUS28
15	16-3/4	2x10	16	THIRD SPAN	LU28/LUS28

NOTES:
1. SEE A5 / S-404 FOR TYPICAL CEILING JOIST TO WALL/HEADER CONNECTION
2. CEILING JOIST DESIGNED AS DFL#2. MAY BE SUBSTITUTED FOR LUMBER W/ S.G.= 0.5 OR GREATER

2 CEILING JOIST SCHEDULE
N.T.S.

LEGEND:	
○	INDICATES LIGHT FIXTURE - SEE ARCH.
⊠	INDICATES SUPPLY DIFFUSER - SEE MECH. COORDINATE WITH MECH SUPPLIER FOR FRAME CLEARANCE
⊘	INDICATES RETURN/EXHAUST GRILLE - SEE MECH. COORDINATE WITH MECH SUPPLIER FOR FRAME CLEARANCE

DROPPED CEILING PLAN LEGEND
N.T.S.

- For Construction -

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CONSTRUCTION

CONSULTANT PROJECT # 222001
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SHEET
DROPPED CEILING PLAN

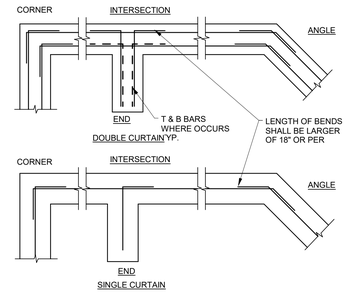
SHEET NUMBER
S-241

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20-LE-04591-S-241-DROPPED CEILING PLAN

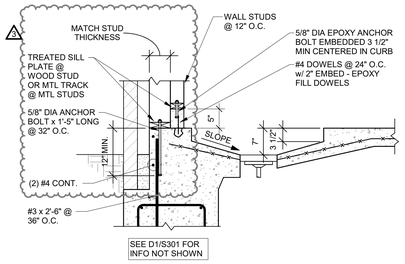
For Construction

	MAIN REINFORCEMENT			STIRRUPS & TIES		
	90° HOOK		180° HOOK	90° HOOK		135° HOOK
BAR SIZE	90° HOOK LENGTH "L"	INSIDE DIA. "D1"	180° HOOK LENGTH "L"	90° HOOK LENGTH "L"	INSIDE DIA. "D2"	135° HOOK LENGTH "L"
#3	4 1/2"	2 1/4"	2 1/2"	3"	1 1/2"	3"
#4	6"	3"	2 1/2"	3"	2"	3"
#5	7 1/2"	3 3/4"	2 1/2"	3 3/4"	2 1/2"	3 3/4"
#6	9"	4 1/2"	3"	9"	4 1/2"	4 1/2"

D4 REBAR STANDARD HOOKS & BENDS
N.T.S.



D3 TYP. REINF. LAYOUT DETAIL
3/4" = 1'-0"



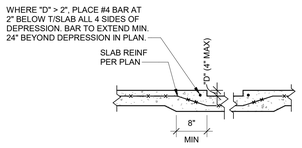
D2 MOP SINK SECTION
3/4" = 1'-0"

CONCRETE STRENGTH	fc = 3000 PSI				fc = 4000 PSI			
CLASS OF LAP SPLICE	CLASS "A"		CLASS "B"		CLASS "A"		CLASS "B"	
BAR SIZE	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	1'-10"	1'-5"	2'-4"	1'-10"	1'-7"	1'-3"	2'-1"	1'-7"
#4	2'-5"	1'-10"	3'-1"	2'-5"	2'-1"	1'-7"	2'-9"	2'-1"
#5	3'-0"	2'-4"	3'-11"	3'-0"	2'-7"	2'-0"	3'-5"	2'-7"
#6	3'-7"	2'-9"	4'-8"	3'-7"	3'-1"	2'-5"	4'-1"	3'-1"

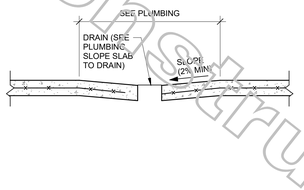


NOTES:
1. UNLESS INDICATED OTHERWISE, USE CLASS "B" LAP SPLICE LENGTHS, MULTIPLIED BY THE APPLICABLE FACTORS(S) LISTED BELOW.
2. WHERE THE CLEAR SPACING OF BARS BEING SPLICED IS LESS THAN 2 BAR DIAMETERS, INCREASE THE LAP LENGTH BY 50%.
3. WHERE THE BAR COVER IS LESS THAN OR EQUAL TO THE BAR DIAMETER, INCREASE THE LAP LENGTH BY 50%
4. A CLASS "A" SPLICE MAY BE USED ONLY WHERE NOTED ON THE DRAWINGS. WHERE DEVELOPMENT LENGTH (Ld) IS REQUIRED OR CALLED OUT ON THE DRAWINGS, USE CLASS "A" LAP SPLICE LENGTH.
5. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
6. LAP SPLICE LENGTHS IN TABLE ARE FOR NORMAL WEIGHT CONCRETE. WHERE LIGHTWEIGHT AGGREGATE CONCRETE IS USED, INCREASE LAP SPLICE LENGTH BY 30%
7. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS SHALL BE STAGGERED.
8. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS CONTAINING TWO CURTAINS OF REINFORCEMENT SHALL NOT OCCUR IN THE SAME LOCATION.

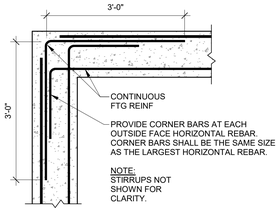
D1 REBAR OFFSET & LAP SPLICE REQUIREMENTS
N.T.S.



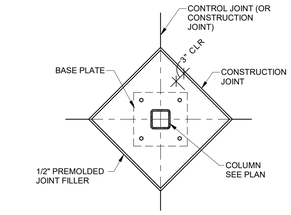
C5 SECTION @ DEPRESSED SLAB
3/4" = 1'-0"



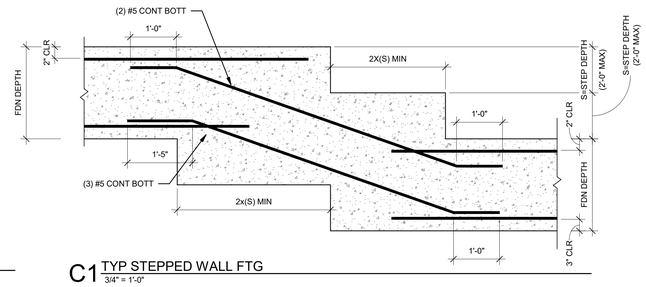
C4 DRAIN DETAIL
3/4" = 1'-0"



C3 TYP CONTINUITY CORNER
3/4" = 1'-0"



C2 COLUMN ISOLATION JOINTS
3/4" = 1'-0"



C1 TYP STEPPED WALL FTG
3/4" = 1'-0"

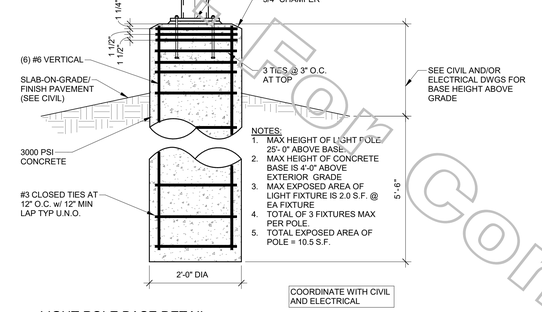
PARALLEL TO FTG

NOTES:
1. WHERE TRENCH OCCURS BELOW "NO DIGGING LINE" (SHOWN AS HEAVY DASHED LINE), LOWERBOTTOM OF FTG WITH CONC FILL TO LOWER NO DIGGING LINE AS REQ'D (SHOWN AS LT DASHED LINE).
2. IN LIEU OF LOWERING BOTT OF FTG WHERE TRENCH OCCURS BELOW NO DIGGING LINE, FILL PORTION OF TRENCH BELOW NO DIGGING LINE W/ CONC FILL - PRIOR TO EXCAVATING FTG. PROVIDE SLEEVE W/ 1" CLR AROUND PIPE ENCASED IN CONC.
3. SEE PIPES PERPENDICULAR TO FOOTING FOR ADDITIONAL NOTES.

PERPENDICULAR TO FTG

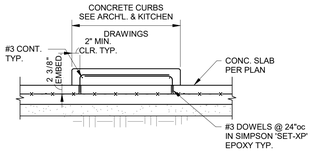
NOTES:
1. CONCRETE FILL SHALL HAVE f'c @ 28 DAYS > 1500 PSI.
2. CONCRETE FILL TO BE SAME WIDTH AS FTG AND FULL WIDTH OF PIPE TRENCH. STEP FTG IF PIPE IS MORE THAN 2'-6" BELOW BOTT OF FTG.
3. NO PIPE SHALL BE PLACED BELOW SPREAD FTGS - TYP.
4. IF PIPE IS IN PLACE PRIOR TO CASTING CONCRETE, WRAP PIPE W/ 1" THICK GLASS WOOL INSULATION IN LIEU OF SLEEVE.
5. PROVIDE 2" CLR MINIMUM, BETWEEN PIPES OR CONDUIT & REINFORCING.
6. NO PIPES UNDER PRESSURE ALLOWED WITHIN FTG IN LONGITUDINAL DIRECTION.
7. CONDUITS WITHIN FTG SHALL BE LOCATED SUCH THAT VERTICAL RISERS DO NOT CROSS ADJACENT HORIZONTAL CONDUIT. MINIMUM COVER SHALL BE 1 1/2" AND 2d MINIMUM SEPARATION.

B4 UNDERGROUND UTILITIES AT FOUNDATIONS
1/2" = 1'-0"



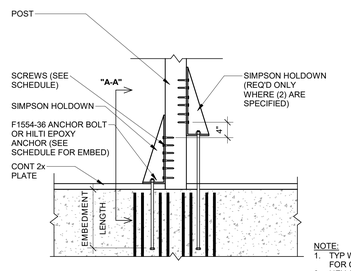
NOTES:
1. MAX HEIGHT OF LIGHT POLE: 25'- 0" ABOVE BASE.
2. MAX HEIGHT OF CONCRETE BASE IS 4'-0" ABOVE EXTERIOR GRADE
3. MAX EXPOSED AREA OF LIGHT FIXTURE IS 2.0 S.F. @ EA FIXTURE
4. TOTAL OF 3 FIXTURES MAX PER POLE.
5. TOTAL EXPOSED AREA OF POLE = 10.5 S.F.

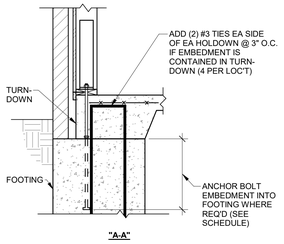
B3 LIGHT POLE BASE DETAIL
3/4" = 1'-0"



B2 CONCRETE CURB DETAIL
3/4" = 1'-0"

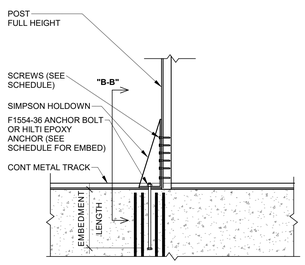
B1 TYP RE-ENTRANT CORNER
3/4" = 1'-0"

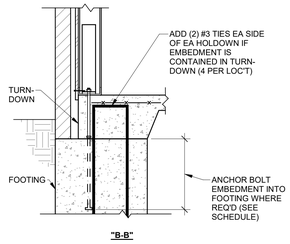




NOTE:
1. TYP WALL REINF NOT SHOWN FOR CLARITY (SEE D1/S301)
2. HEX ANCHOR NUT TYP AT EMBEDED END OF ANCHOR BOLT. HEAVY HEX ANCHOR NUT AT HDU14-SDS2.5

WOOD STUD HOLDOWN DETAIL



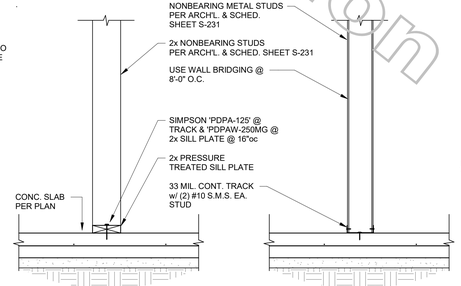


NOTE:
1. TYP WALL REINF NOT SHOWN FOR CLARITY (SEE D2/S-301)
2. HEX ANCHOR NUT TYP AT EMBEDDED END OF ANCHOR BOLT. HEAVY HEX ANCHOR NUT AT S/HDU11.

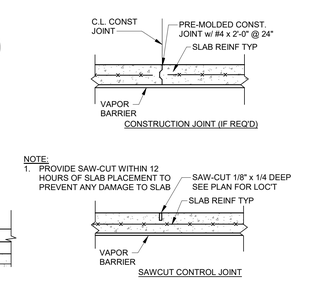
METAL STUD HOLDOWN DETAIL

SIMPSON HOLDOWN	STUD SCREWS	MIN POST DEPTH	ANCHOR BOLT (F1554-36)	APPROVED ALTERNATE HILTI HIT-HY 200 ADHESIVE	MIN EDGE DIST FOR ADHESIVE
HDU4-SDS2.5	(10) SDS 1/4" x 2-1/2"	3"	5/8" DIA x 0'-10" EMBED INTO TURN-DOWN	5/8" DIA x 0'-10" EMBED INTO TURN-DOWN ⚠1	2 3/4" FROM FOOTING EDGE
HDU8-SDS2.5	(20) SDS 1/4" x 2-1/2"	4 1/2"	7/8" DIA x 1'-0" EMBED INTO FOOTING	7/8" DIA x 1'-0" EMBED INTO FOOTING	8 3/4" FROM FOOTING EDGE
HDU11-SDS2.5	(30) SDS 1/4" x 2-1/2"	5 1/2"	1" DIA x 1'-0" EMBED INTO FOOTING	1" DIA x 1'-0" EMBED INTO FOOTING	1'-6" FROM FOOTING EDGE ⚠1
S/HDU4	(6) #14	N/A	3/4" DIA x 0'-10" EMBED INTO TURNDOWN	3/4" DIA x 1'-0" EMBED INTO FOOTING	2 3/4" FROM FOOTING EDGE
S/HDU9	(18) #14	N/A	7/8" DIA x 0'-10" EMBED INTO TURNDOWN	7/8" DIA x 1'-0" EMBED INTO FOOTING	8 1/4" FROM FOOTING EDGE ⚠1

A3 HD DETAIL @ SHEAR WALL & POSTS
3/4" = 1'-0"



A2 TYP NONBEARING PARTITIONS
1" = 1'-0"



NOTE:
1. PROVIDE SAW-CUT WITHIN 12 HOURS OF SLAB PLACEMENT TO PREVENT ANY DAMAGE TO SLAB

A1 SLAB ON GRADE JOINTS
3/4" = 1'-0"

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JOHN M. WILLETT
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LICENSED PROFESSIONAL ENGINEER

7/22/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	03-29-22	DESIGN NOTES
3	07-22-22	DESIGN NOTES

CONSTRUCTION

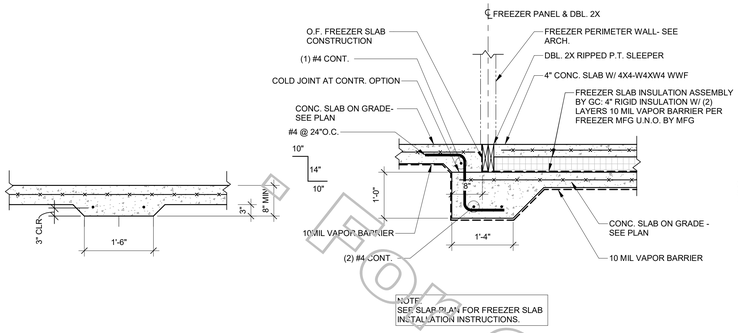
CONSULTANT PROJECT # 222001
DATE 07/22/2022
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SHEET
CONCRETE DETAILS

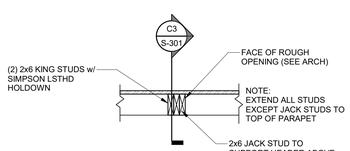
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S-300

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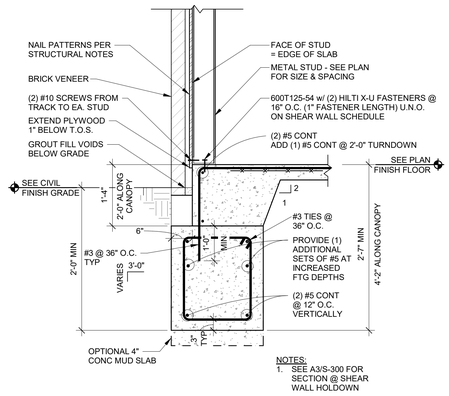


D5 THICKENED SLAB @ CORES
3/4" = 1'-0"

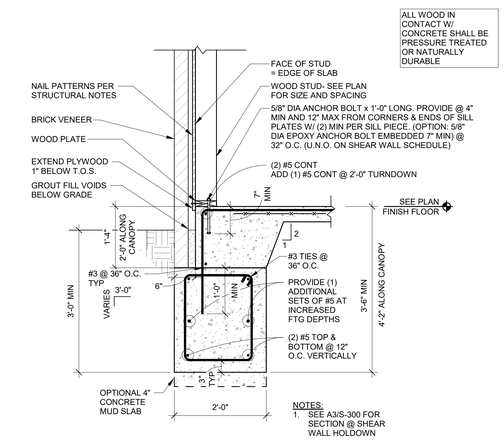
D4 TYP RECESSED FREEZER SLAB DETAIL
3/4" = 1'-0"



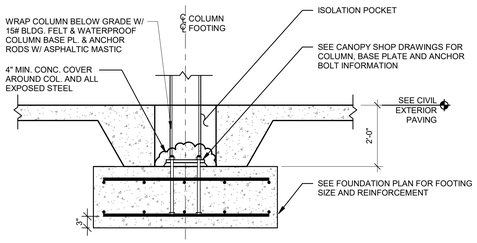
D3 WALL DETAIL @ STUD PACKS
3/4" = 1'-0"



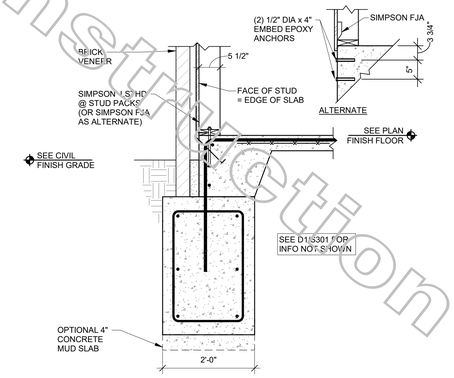
D2 TYP SECTION @ EXT MTL STUD WALL
3/4" = 1'-0"



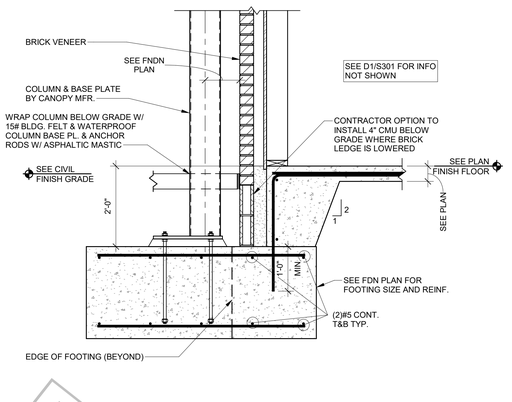
D1 TYP SECTION @ EXT WOOD WALL
3/4" = 1'-0"



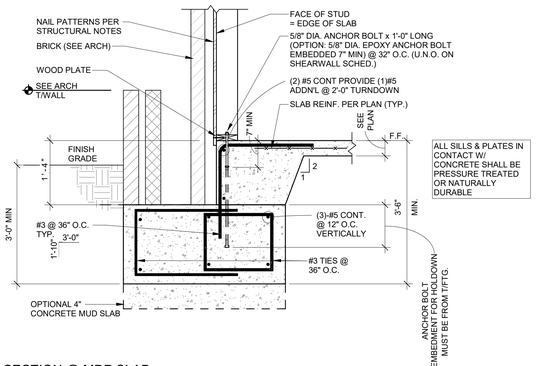
C4 SECTION @ EXTERIOR OMD CANOPY FTGS
3/4" = 1'-0"



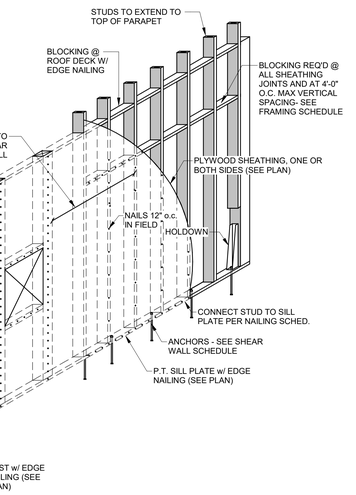
C3 SECTION @ STUD PACKS
3/4" = 1'-0"



C2 TYP. EXTERIOR CANOPY COLUMN FOOTING
3/4" = 1'-0"



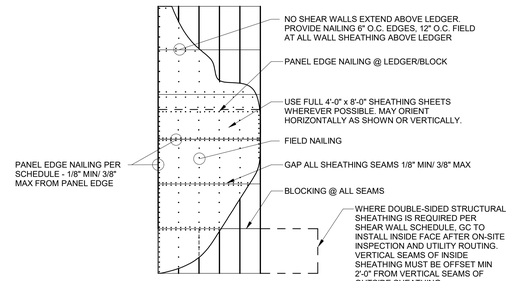
C1 SECTION @ MDP SLAB
3/4" = 1'-0"



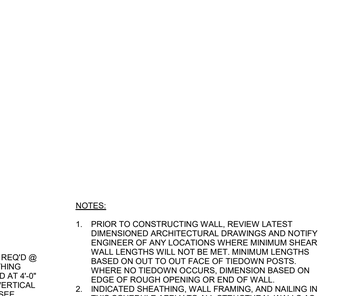
NOTES:

1. PRIOR TO CONSTRUCTING WALL, REVIEW LATEST DIMENSIONED ARCHITECTURAL DRAWINGS AND NOTIFY ENGINEER OF ANY LOCATIONS WHERE MINIMUM SHEAR WALL LENGTHS WILL NOT BE MET. MINIMUM LENGTHS BASED ON OUT TO OUT FACE OF TIEDOWN POSTS. WHERE NO TIEDOWN OCCURS, DIMENSION BASED ON EDGE OF ROUGH OPENING OR END OF WALL.
2. INDICATED SHEATHING, WALL FRAMING, AND NAILING IN THIS SCHEDULE APPLY TO ALL STRUCTURAL WALLS AS DESIGNATED.
3. NAILS AT ALL PANEL EDGES SHALL BE STAGGERED WITH 1/2" OFFSET BETWEEN ADJACENT FASTENERS IN A ROW.
4. 0148" Ø x 2-1/2" MIN LENGTH NAIL MAY BE USED IN LIEU OF 10d COMMON FOR ALL SHEATHING NAILING. NAILS MUST BE DRIVEN FLUSH WITHOUT OVER-DRIVING THROUGH SURFACE OF SHEATHING.
5. PROVIDE 10d @ 12" O.C. FIELD NAILING AT WALL SHEATHING, TYP.
6. SEE PLANS FOR SHEARWALL TIEDOWN SIZE AND LOCATION.
7. PLACE SHEATHING ON SIDE OF WALL WHERE SYMBOL IS SHOWN ON PLAN.
8. FOR TYPICAL WALL FRAMING, SEE SHEET S-401.
9. WHERE WALL HEIGHT DICTATES HORIZONTAL SHEATHING JOINTS AT WALL, PROVIDE BLOCKING PER A2 & A3/S-301
10. SHEATHING THICKNESS IS NOMINAL, ACTUAL THICKNESS EQUIVALENTS ARE: 1/2"= 15/32"; 5/8"= 19/32"; 3/4"=23/32".
11. WALL SCHEDULE IS BASED ON SOUTHERN YELLOW PINE STUDS, SOLE PLATES AND PRESSURE TREATED SILL PLATES. ANY ALTERNATE SPECIES OR MATERIALS MUST BE APPROVED BY ENGINEER.
12. ANCHOR BOLTS SHALL BE 5/8" Ø (MIN.) AT 2x SILL PLATES & 7/8" Ø (MIN) AT 3x SILL PLATES.
13. WALLS DESIGNATED ON THE PLANS FOR A SPECIFIC NAILING PATTERN MAY BE NAILED AT A CLOSER SPACING WITH DBL. 2x STUDS AT PLWD JOINTS AS NOTED. OTHER COMPONENTS OF WALL ASSEMBLY DO NOT HAVE TO BE INCREASED BEYOND THE REQUIREMENTS FOR THE WALL DESIGNATED ON THE PLANS.
14. NO HOLES OR PENETRATIONS ARE PERMITTED IN ANY SHEAR WALL SHEATHING.
15. NAILS INTO P.T. SILL PLATES AND OTHER P.T. LUMBER MUST BE H.D.G.
16. MIN. (4) SILL ANCHOR BOLTS PER SHEAR WALL
17. PROVIDE FULL 4' X 8' SHEETS OF SHEATHING EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING

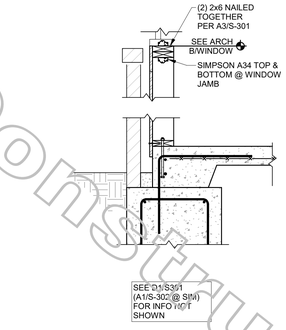
A4 TYP SHEARWALL
N.T.S.



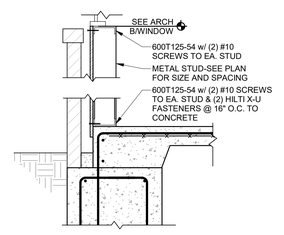
A3 TYP SHEAR WALL SHEATHING
N.T.S.



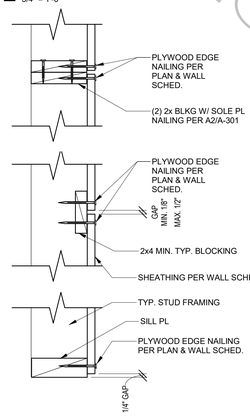
B3 SECTION @ DOOR
3/4" = 1'-0"



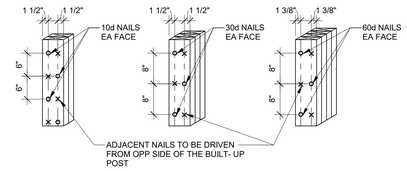
B2 WINDOW SECTION @ WOOD WALL
3/4" = 1'-0"



B1 WINDOW SECTION @ MTL STUD WALL
3/4" = 1'-0"



A2 HORIZONTAL SHEATHING JOINTS
1 1/2" = 1'-0"



A1 BUILT UP POST DETAIL
3/4" = 1'-0"

For Construction - For Construction

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CHICK-FIL-A WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
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CONSTRUCTION

REVISION SCHEDULE

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1	03-29-22	DESIGN NOTES

CONSTRUCTION

CONSULTANT PROJECT # 222001
DATE 03/29/2022
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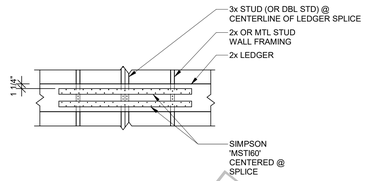
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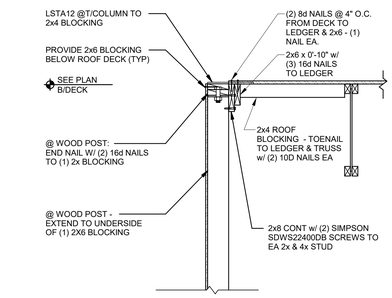
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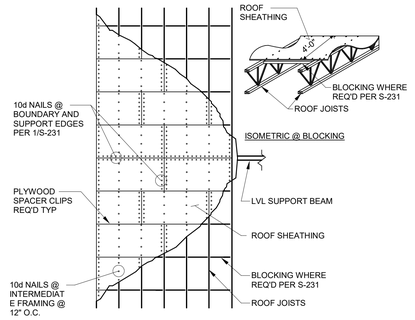
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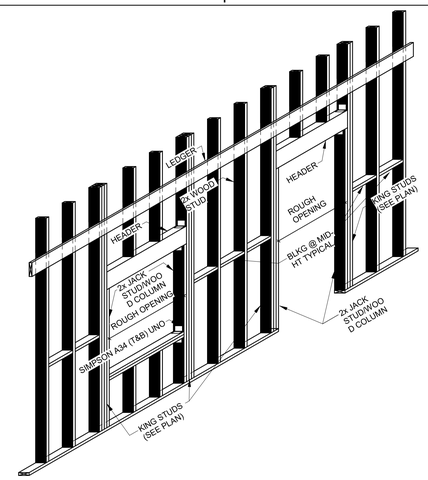
E4 SPLICE DETAIL
3/4" = 1'-0"



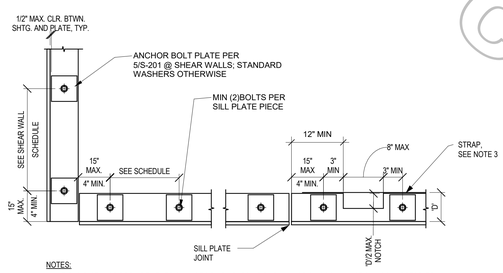
E3 COLUMN TO DECK SECTION
3/4" = 1'-0"



E2 ROOF DIAPHRAGM NAILING
3/4" = 1'-0"

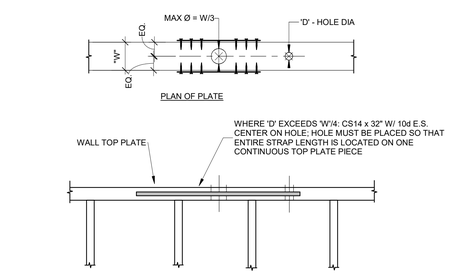


E1 TYP FRAMING ELEVATION
N.T.S.



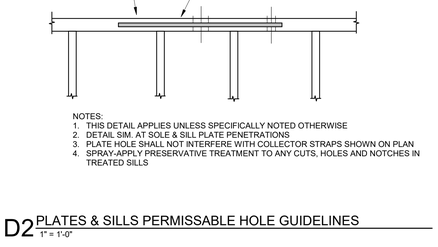
NOTES:
1. IF END DISTANCE REQUIREMENTS CANNOT BE ACHIEVED AS SHOWN, USE SIMPSON LMA6Z SILL CONNECTOR TO SATISFY AT 6x WALLS; (2) MASB TO SATISFY AT 8x WALLS. TOTAL NUMBER OF AB'S FOR SHEAR WALLS AND OTHER LOCATIONS SHALL NOT BE ALTERED.
2. ANCHORAGE SHOWN FOR STRUCTURAL WALLS ONLY. S.A.D. FOR PARTITION ANCHORAGE.
3. PROVIDE REINFORCING STRAP CMSTC16 AT ALL SILL NOTCHES > 'D'/4. EXTEND STRAP MIN 20" PAST EACH END OF NOTCH. USE 50% NAILING AND HDG NAILS TO PT SILL.

D4 TYP SILL BOLTING LAYOUT
1" = 1'-0"



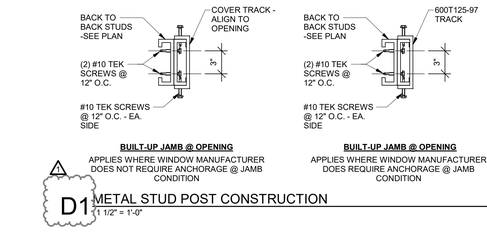
NOTES:
1. NO HOLES OR NOTCHING IN JOISTS WITH D = 4" O/A LESS
2. WALL NOTCHES ARE ONLY PERMITTED ON INTERIOR NON- BEARING WALLS
3. NOTCHES ARE NOT ALLOWED IN MIDDLE THIRD OF BEAM SPAN

D3 SAWN LUMBER PERMISSABLE HOLE GUIDELINES
1" = 1'-0"

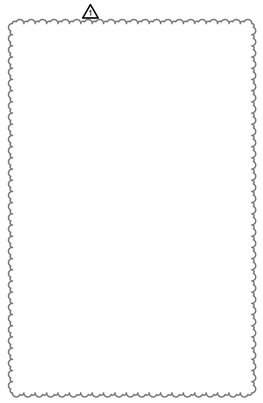


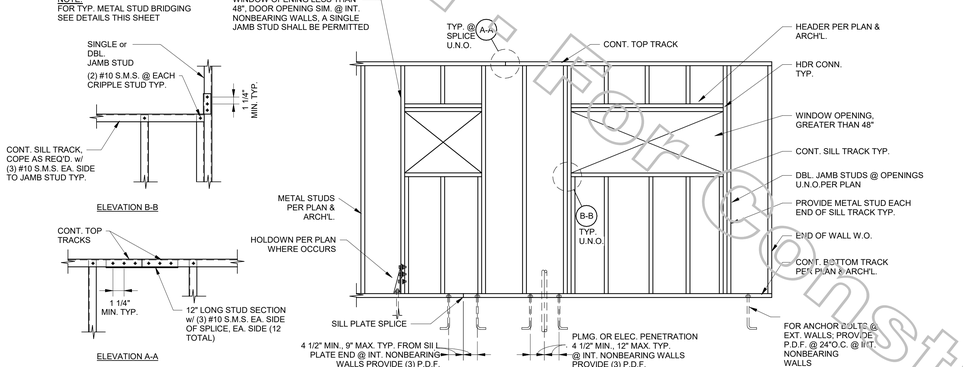
NOTES:
1. THIS DETAIL APPLIES UNLESS SPECIFICALLY NOTED OTHERWISE
2. DETAIL SIM. AT SOLE & SILL PLATE PENETRATIONS
3. PLATE HOLE SHALL NOT INTERFERE WITH COLLECTOR STRAPS SHOWN ON PLAN
4. SPRAY-APPLY PRESERVATIVE TREATMENT TO ANY CUTS, HOLES AND NOTCHES IN TREATED SILLS

D2 PLATES & SILLS PERMISSABLE HOLE GUIDELINES
1" = 1'-0"

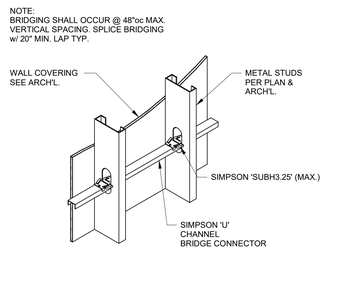


D1 METAL STUD POST CONSTRUCTION
1 1/2" = 1'-0"

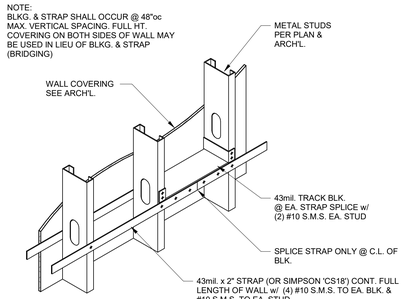




B2 METAL STUD WALL ELEVATION DETAILS
1" = 1'-0"

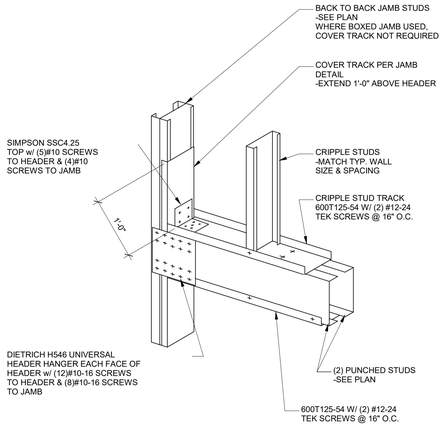


BRIDGING OPTION #1

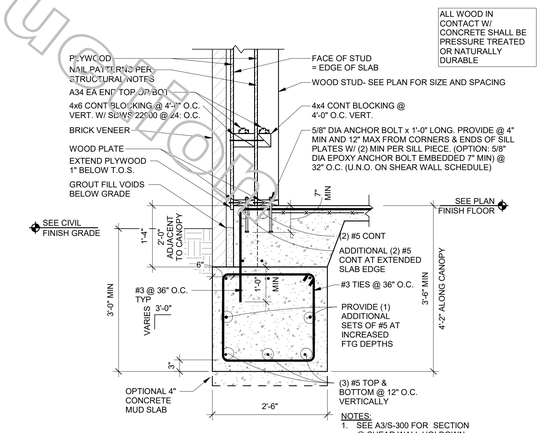


BRIDGING OPTION #2

A4 METAL STUD WALL BRIDGING DETAILS
1" = 1'-0"



A2 METAL STUD WALL OPENING DETAILS
1" = 1'-0"



NOTES:
1. SEE A3/S-300 FOR SECTION @ SHEAR WALL HOLDOWN

A1 TYP SECTION @ EXTERIOR DOUBLE WOOD WALL
3/4" = 1'-0"

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CHICK-FIL-A
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BUILDING TYPE / SIZE: P13 LE LRG
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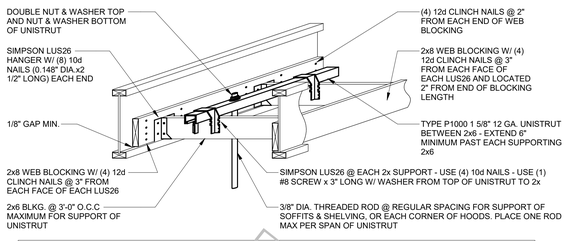
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SHEET
FOUNDATION DETAILS

SHEET NUMBER
S-302

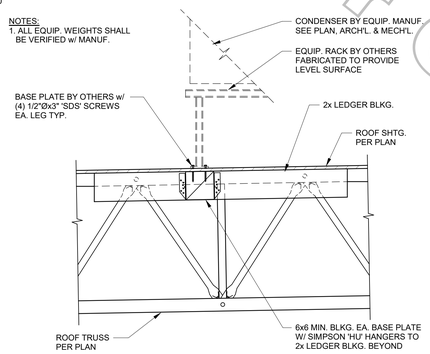
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20-LE-04591-S-302-FOUNDATION DETAILS



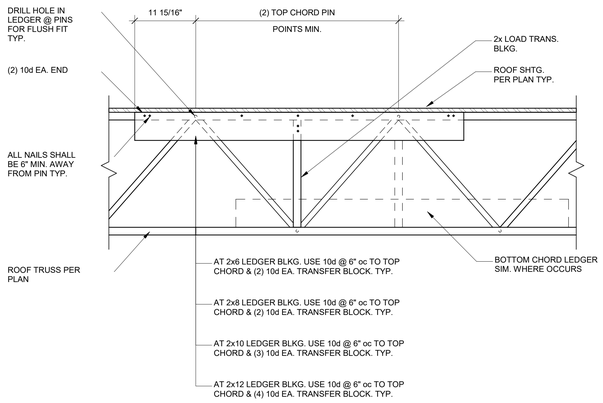
NOTES:
1. GENERAL CONTRACTOR WILL PROVIDE AND INSTALL ALL WEB & WOOD BLOCKING INCLUDING HANGERS.
2. SUBCONTRACTOR /EQUIPMENT INSTALLER WILL PROVED AND INSTALL ALL UNISTRUT WITH REQUIRED CONNECTIONS AND THREADED RODS WITH NUTS AND WASHERS.
3. SEE REDBUILT STANDARD INSTALLATION DETAILS FOR FURTHER CLARIFICATIONS.
4. DO NOT EXCEED CAPACITY OF HANGER (500# EACH.)

FOR USE AT HOODS, SHELVING, & SOFFITS

D3 TYP. HANGER DETAIL
3/4" = 1'-0"

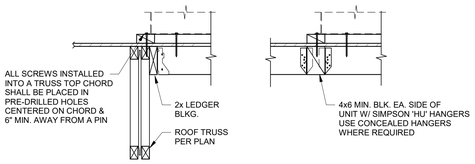


C4 CONDENSING UNIT SUPPORT DETAIL
1" = 1'-0"



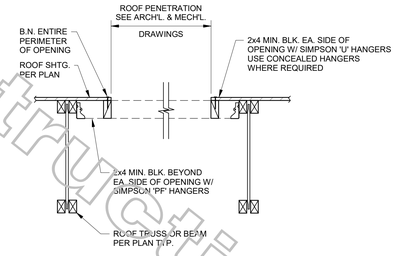
B4 TRUSS LEDGER BLOCKING DETAIL
1" = 1'-0"

NOTES:
1. ALL EQUIP. WEIGHTS SHALL BE VERIFIED w/ MANUF.
2. FAN UNIT BY EQUIP. MANUF. SEE PLAN, ARCH'L. & MECH'L.
3. CONT. SHEATHING WHERE OCCURS
4. 3 1/2" WIDE SOLID BLKG. ENTIRE PERIMETER OF FAN UNIT & RIPPED AS REQUIRED TO PROVIDE LEVEL SURFACE ON SLOPING ROOF. ATTACH CURB & FLAT BLKG. TO CONT BLKG. BELOW ROOF SHTG. w/ 1/4"Ø 'SDS' SCREWS @ 12"oc. PROVIDE (3) SCREWS MIN PER SIDE & SCREW LENGTHS PER SCHEDULE
5. ROOF SHTG. PER PLAN TYP.
6. 4x6 MIN. CONT. BLKG. EA. SIDE OF UNIT W/ SIMPSON 'HU' HANGERS TO 2x LEDGER BLKG. BEYOND
7. 1" MIN. TYP.
8. 1 1/2" MIN. TYP.

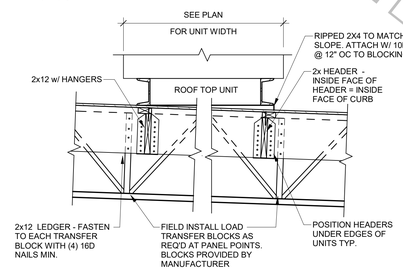


SECTION A-A @ TRUSS — SECTION A-A @ BLKG.

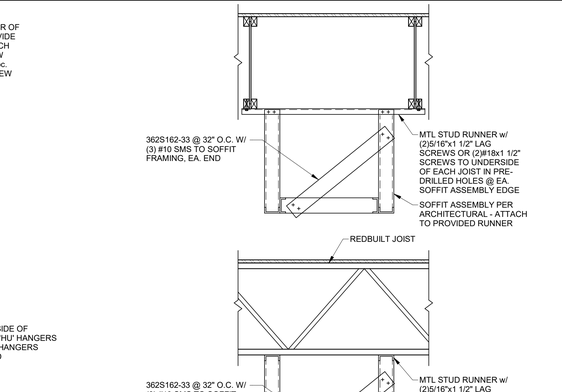
D2 EXHAUST FAN SUPPORT DETAILS
1" = 1'-0"



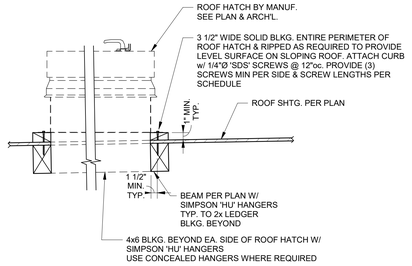
C3 TYP ROOF PENETRATION DETAIL
1" = 1'-0"



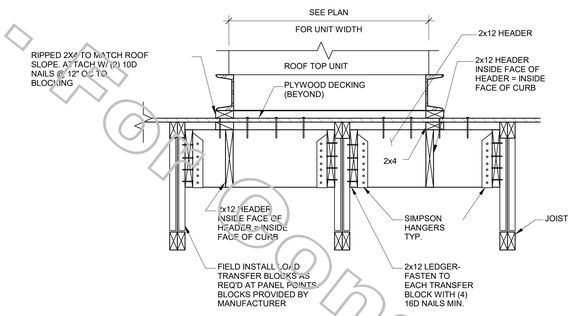
B3 SECTION @ RTU FRAMING
3/4" = 1'-0"



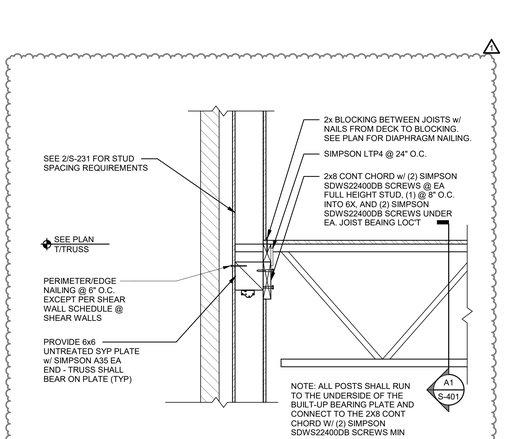
D1 SOFFIT FRAMING
3/4" = 1'-0"



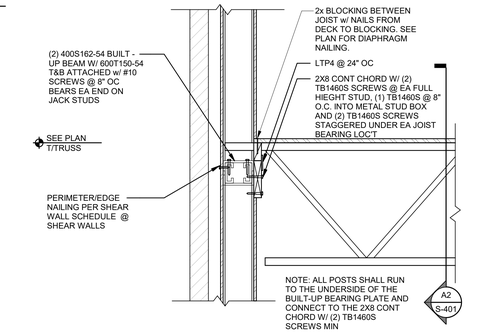
C2 ROOF HATCH FRAMING DETAILS
1" = 1'-0"



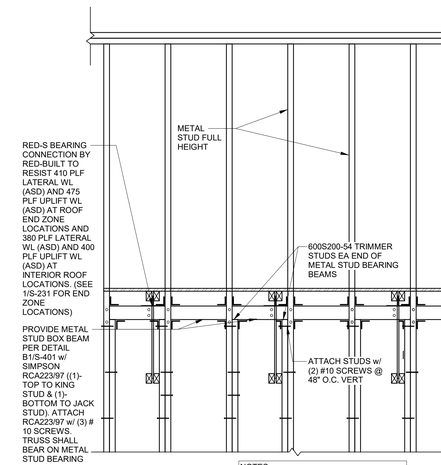
B2 TYP RTU FRAMING SECTION
1" = 1'-0"



C1 TYP WOOD WALL CONNECTION DETAIL (2)2X6
1" = 1'-0"

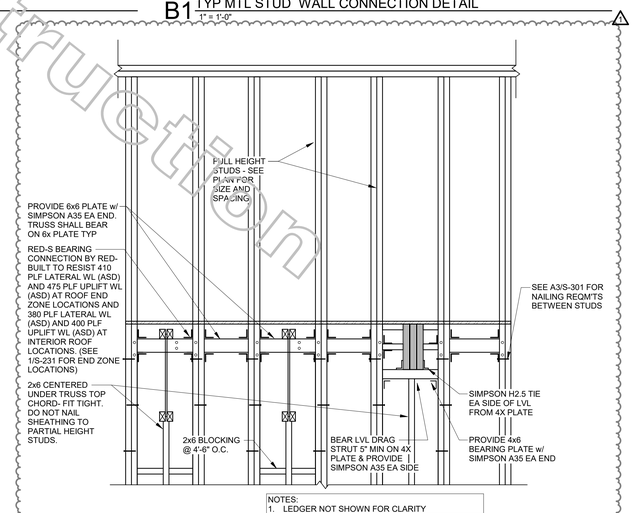


B1 TYP MTL STUD WALL CONNECTION DETAIL
1" = 1'-0"



NOTES:
1. LEDGER NOT SHOWN FOR CLARITY

A2 ELEVATION @ METAL STUD WALL
3/4" = 1'-0"



NOTES:
1. LEDGER NOT SHOWN FOR CLARITY

A1 ELEVATION @ LOAD BEARING WALLS W/ DRAG STRUT BEARING
3/4" = 1'-0"

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30349-2998

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CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	03-29-22	DESIGN NOTES

CONSULTANT PROJECT # 222001
DATE 03/29/2022
DRAWN BY JM/LLM

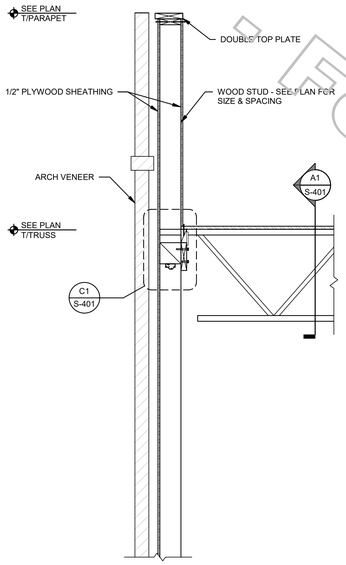
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SHEET
SECTIONS & DETAILS

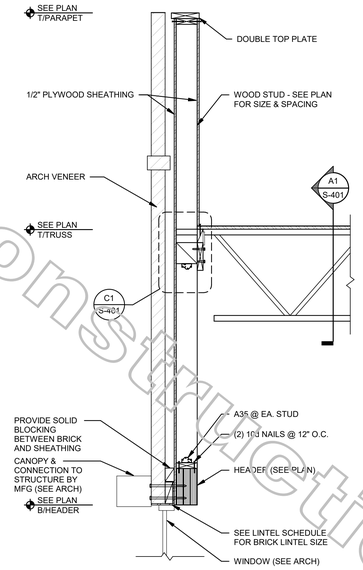
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S-401

CONSTRUCTION

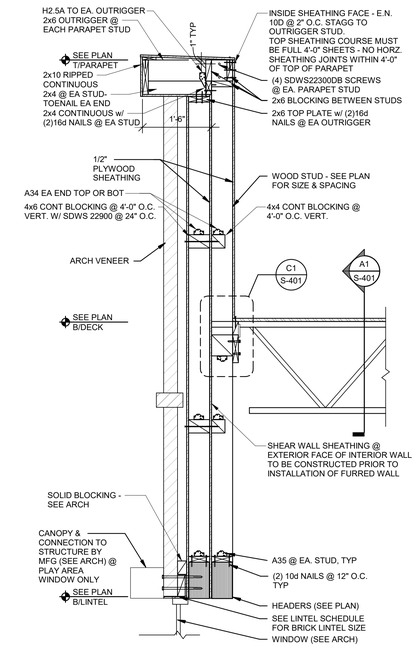
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20-LE-04591-S-401-SECTIONS & DETAILS



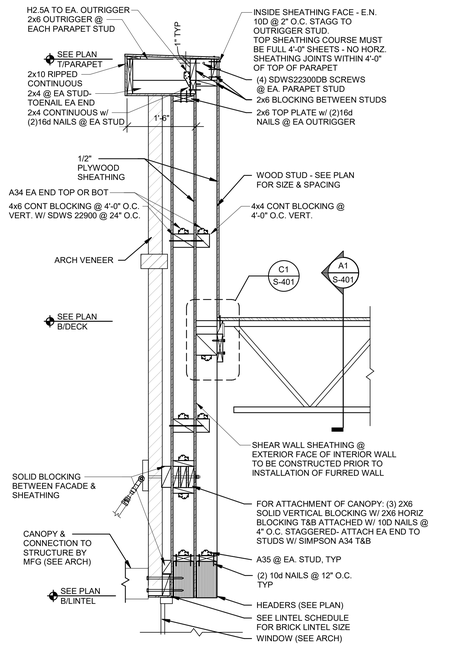
C4 TYP LOAD BEARING WALL SECTION
3/4" = 1'-0"



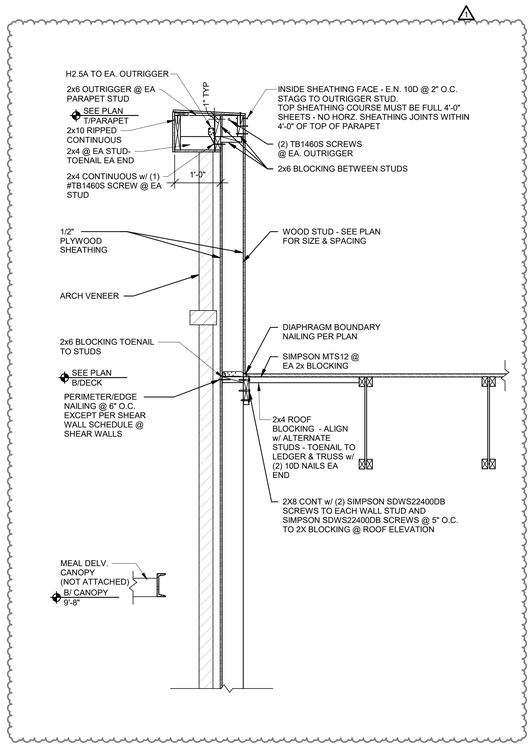
C3 TYP WALL W/ WINDOW
3/4" = 1'-0"



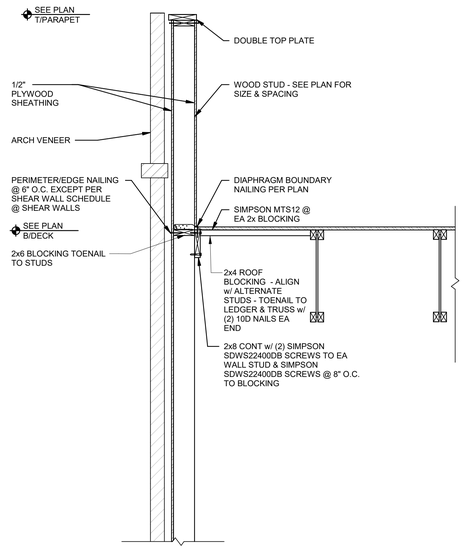
C2 LOAD BEARING DOUBLE WALL SECTION W/ WINDOW
3/4" = 1'-0"



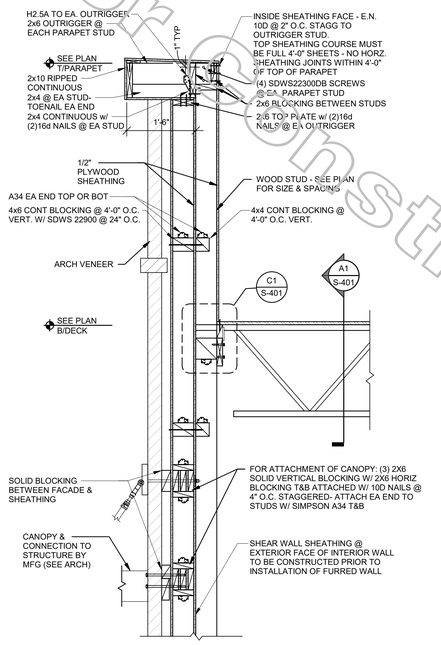
C1 LOAD BEARING DOUBLE WALL SECTION W/ CANOPY & WINDOW
3/4" = 1'-0"



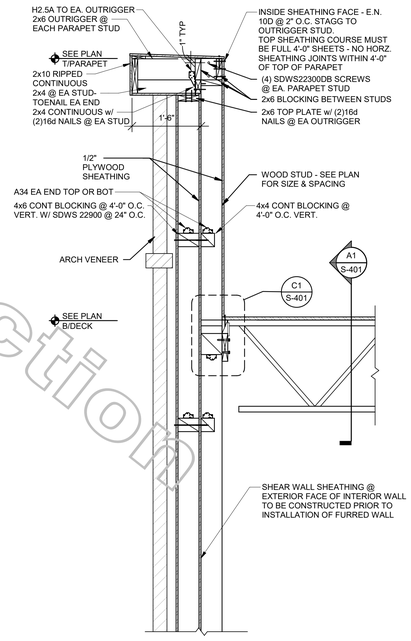
NON-BEARING @ HIGH PARAPET @ MEAL DELIVERY CANOPY
A4 3/4" = 1'-0"



A3 NON-LOAD BEARING WALL SECTION
3/4" = 1'-0"



A2 LOAD BEARING DOUBLE WALL SECTION W/ CANOPY
3/4" = 1'-0"



A1 TYP LOAD BEARING DOUBLE WALL SECTION
3/4" = 1'-0"

For Construction

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CHICK-FIL-A WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	03-29-22	DESIGN NOTES

CONSTRUCTION

CONSULTANT PROJECT # 222001
DATE 03/29/2022
DRAWN BY JM/LLM

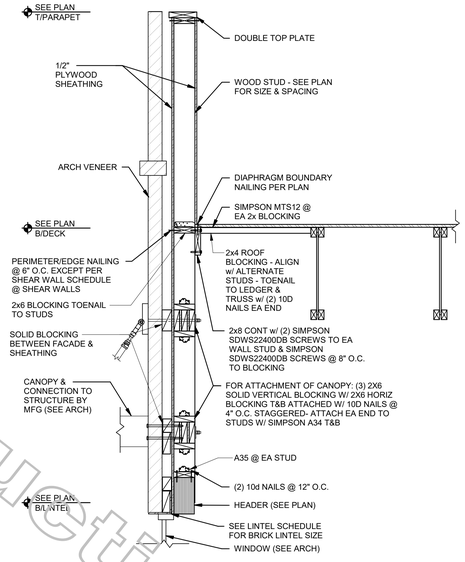
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SHEET
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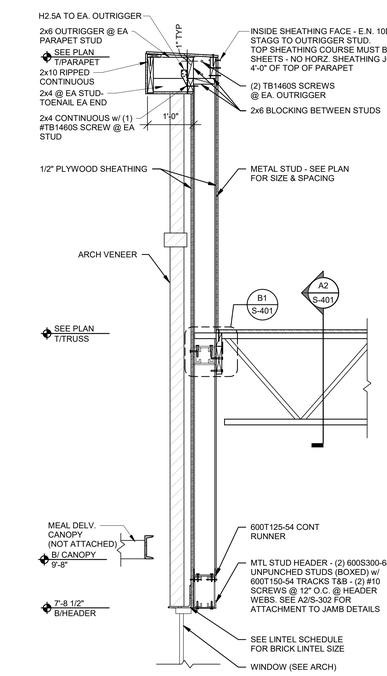
SHEET NUMBER
S-402

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20-LE-04591-S-402-SECTIONS & DETAILS

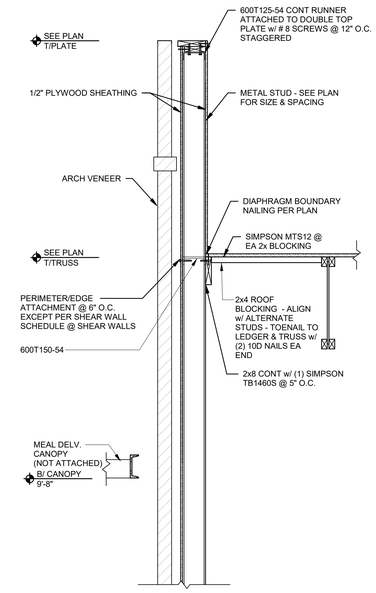
- For Construction -



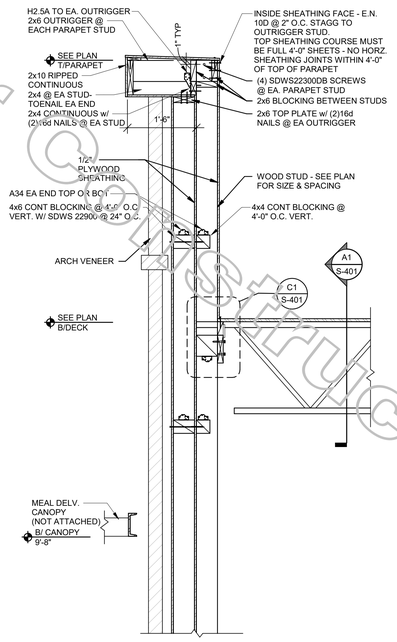
D3 NON-BEARING WALL SECTION @ DOORS AND CANOPY
3/4" = 1'-0"



D2 DRIVE THRU MTL STUD WALL SECTION
3/4" = 1'-0"

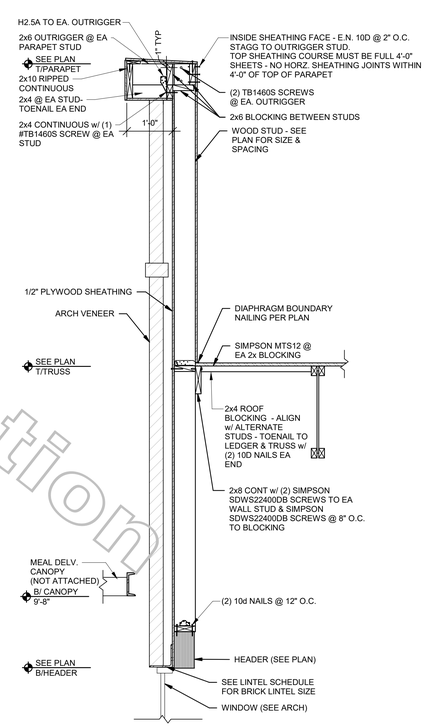


D1 NON-BEARING MTL STUD WALL SECTION
3/4" = 1'-0"



A3 BEARING METAL STUD WALL
3/4" = 1'-0"

TYP LOAD BEARING DOUBLE WALL SECTION @ MEAL DELIVERY CANOPY
A2 3/4" = 1'-0"



A1 DRIVE THRU WALL SECTION
3/4" = 1'-0"

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STATE OF NEW JERSEY
JOHN M. WILLETT
No. CE 045993
LICENSED PROFESSIONAL ENGINEER

7/22/22

CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
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NO.	DATE	DESCRIPTION
1	03-29-22	DESIGN NOTES
3	07-22-22	DESIGN NOTES

CONSTRUCTION

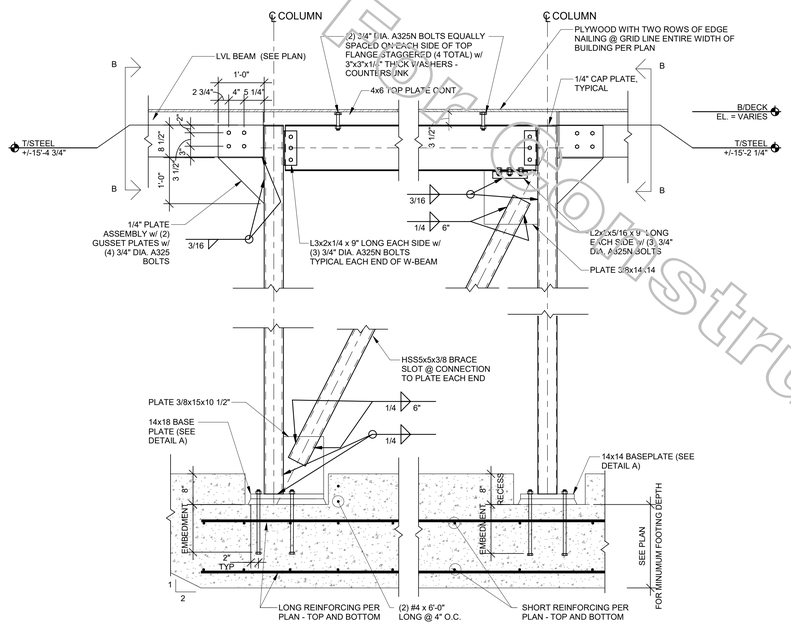
CONSULTANT PROJECT # 222001
DATE 07/22/2022
DRAWN BY JM/LLM

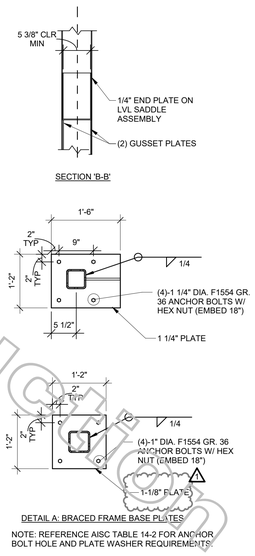
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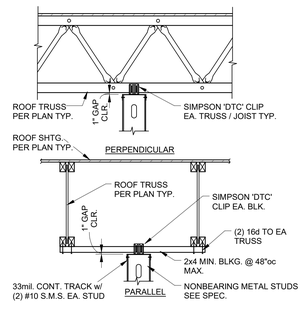
SHEET
SECTIONS & DETAILS

SHEET NUMBER
S-403

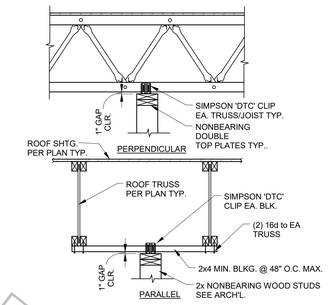
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20-LE-04591-S-403-SECTIONS & DETAILS

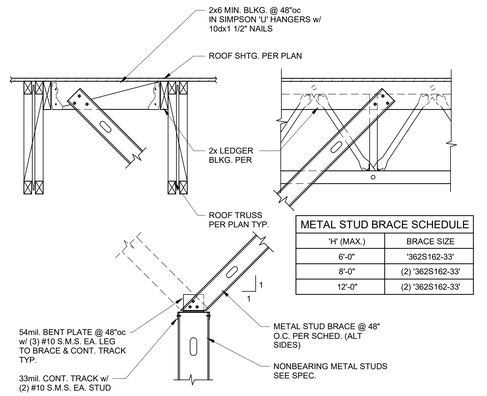






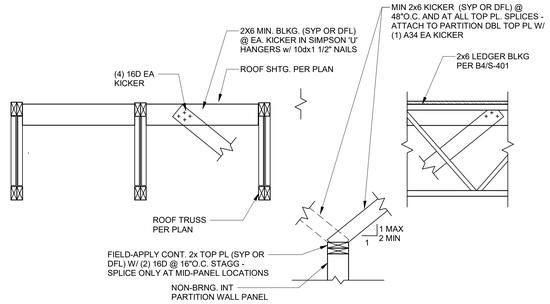
D2 TYP MTL PARTITION WALL BRACING AT TRUSS
3/4" = 1'-0"



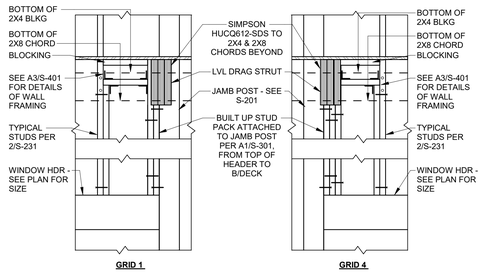


METAL STUD BRACE SCHEDULE	
'H' (MAX.)	BRACE SIZE
6'-0"	'362S162-33'
8'-0"	(2) '362S162-33'
12'-0"	(2) '362S162-33'

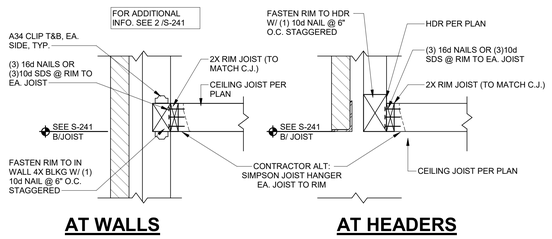
D1 TYP MTL PARTITION WALL BRACING BELOW TRUSS
1" = 1'-0"

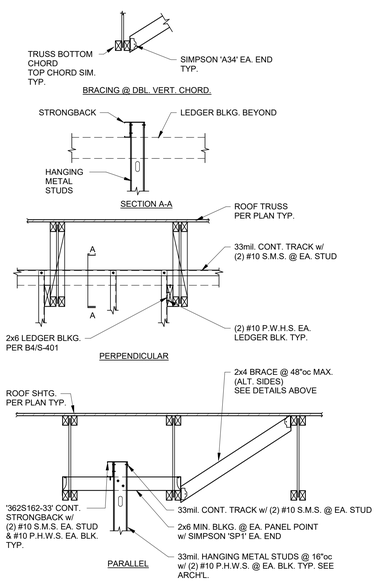


C4 TYP BRACED FRAME
3/4" = 1'-0"

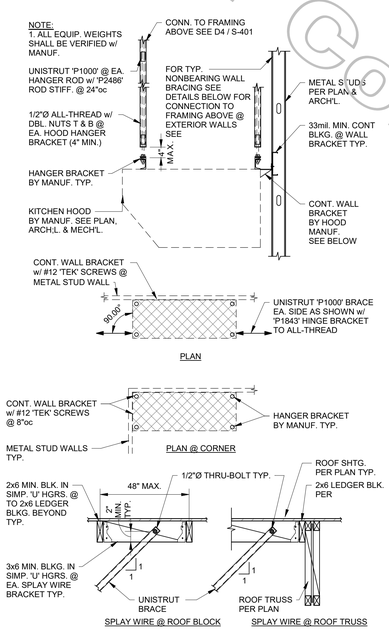


B4 ELEVATION @ DRAG STRUT BEARING
3/4" = 1'-0"

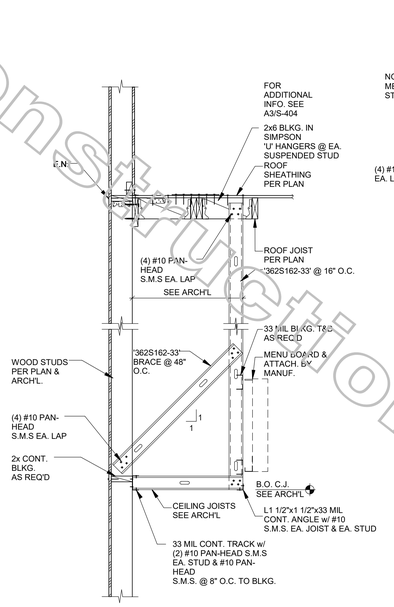


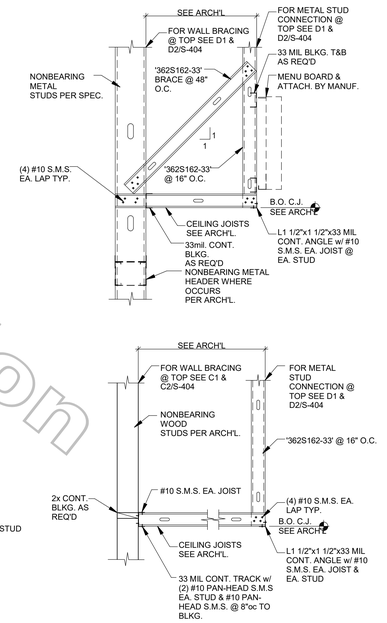


C2 TYP WOOD PARTITION WALL BRACING AT TRUSS
3/4" = 1'-0"



C1 TYP WOOD PARTITION WALL BRACING BELOW TRUSS
3/4" = 1'-0"





A5 TYP CEILING ATTACHMENTS
1" = 1'-0"

A4 TYP HANGING METAL STUD DETAIL
3/4" = 1'-0"

A3 TYP MECH'L HOOD SUPPORT
3/4" = 1'-0"

A2 CEILNG SECTION
3/4" = 1'-0"

A1 CEILING SECTION
3/4" = 1'-0"

For Construction - Engineer's Copy

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3528 Habersham @ Northlake
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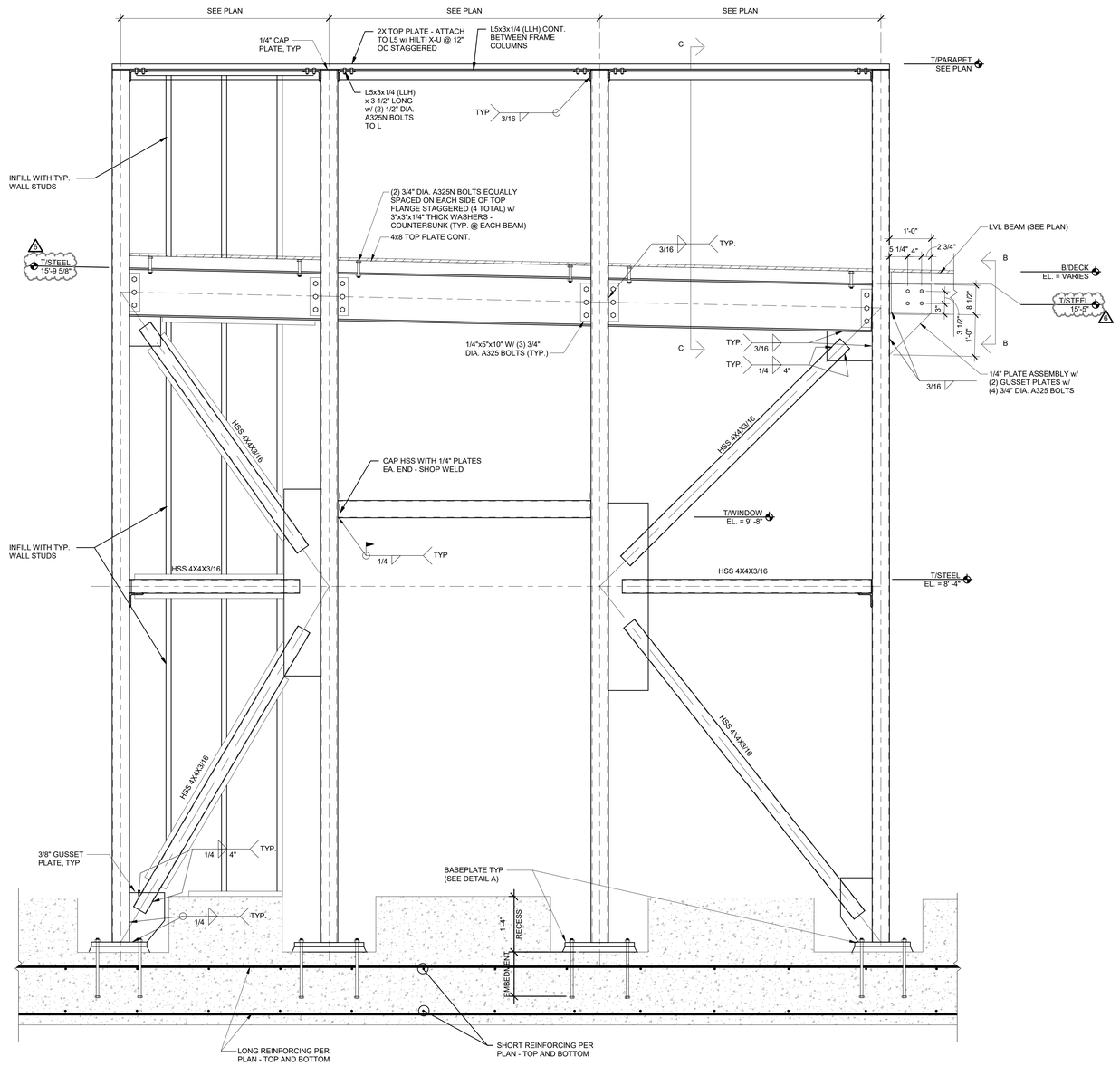
CONSULTANT PROJECT # 222001
DATE 03/29/2022
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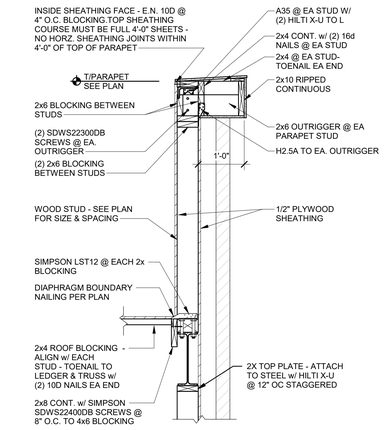
SHEET
SECTIONS & DETAILS

SHEET NUMBER
S-404

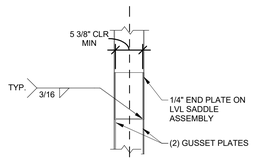
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LE-04591-S-404-SECTIONS & DETAILS



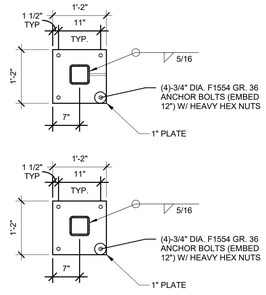
1 TYP BRACED FRAME ALONG GRID D
3/4" = 1'-0"



SECTION 'C-C'



SECTION 'B-B'



DETAIL A:

FRAME BASE PLATES

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

JOHN M. WILLETT P.E.
3528 Habersham @ Northlake
Tucker, Georgia 30084
(770)270-9484

07/22/2022

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	03-29-22	DESIGN NOTES
6	02-06-23	STEEL REVISIONS

CONSULTANT PROJECT # 222001
DATE 07/22/2022
DRAWN BY JM/LLM

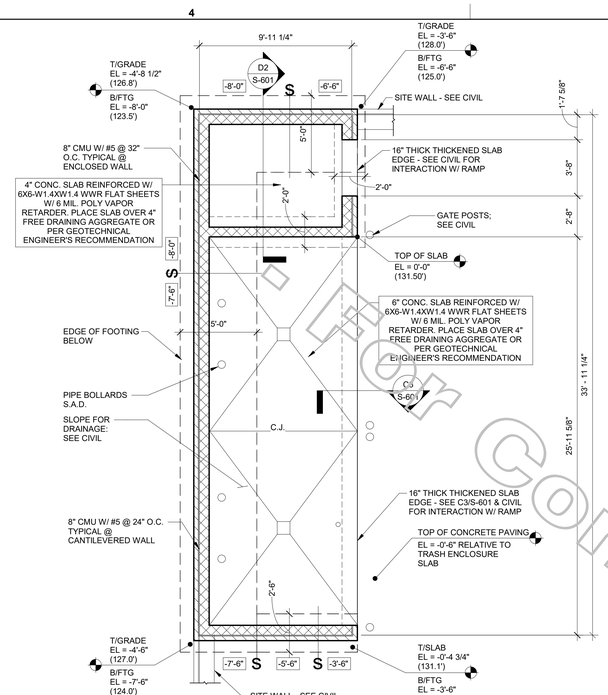
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SHEET
BRACED FRAME

SHEET NUMBER
S-405

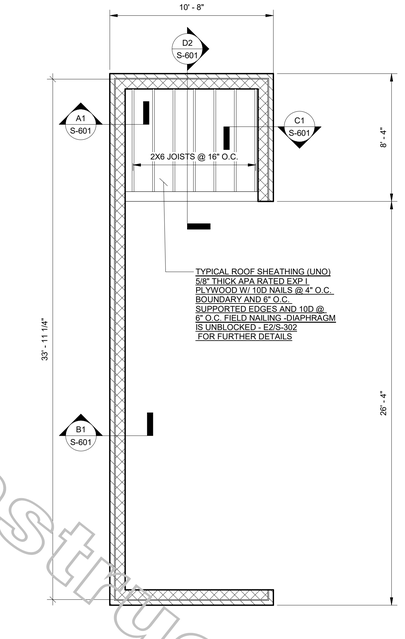
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20-LE-04591-S-405-BRACED FRAME

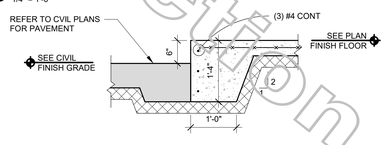


D4 FOUNDATION PLAN
1/4" = 1'-0"

1. BOTTOM OF EXTERIOR FTG = 3'-0" BELOW FINISH GRADE ELEV UNO
2. SEE ARCH DWG FOR ANY WALL LOCATIONS AND OR DIMENSIONS NOT SHOWN.
3. SEE DETAIL D1/S-300 FOR SLAB CONTROL JOINTS.
4. WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.
5. ALL SAW CUT CONTROL JOINTS SHALL BE COMPLETED WITHIN 12 HOURS AFTER FINISHING SLAB WITHOUT DISLODGING AGGREGATE.
6. ALL ANCHORS, CLIPS, STRAPS & ETC WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX AND ARE LESS THAN 3/8" THICK, SHALL BE SIMPSON ZMAX (G185), STAINLESS STEEL OR AN ENGINEERED APPROVED EQUAL.
7. ALL FASTENERS WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8" DIAMETER SHALL BE G185 (A HEAVY COATED GALVANIZED) STAINLESS STEEL OR AN ENGINEERED APPROVED EQUAL.
8. FOUNDATION DESIGN IS BASED ON THE FOLLOWING ASSUMPTIONS. A GEOTECHNICAL ENGINEER SHALL BE EMPLOYED PRIOR TO THE START OF CONSTRUCTION TO INVESTIGATE SUBSURFACE CONDITIONS. IF THE GEOTECHNICAL REPORT INDICATES THAT THESE ASSUMPTIONS LISTED BELOW ARE INCORRECT PLEASE NOTIFY ENGINEER IMMEDIATELY.
9. INDIVIDUAL FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF SUPPORTING 4000 PSF. CONTINUOUS FOOTINGS ARE DESIGNED TO BEAR ON SOIL CAPABLE OF SUPPORTING 4000 PSF. DESIGN ASSUMES DIFFERENTIAL AND TOTAL SETTLEMENT ARE WITHIN ACCEPTED TOLERANCES FOR THE TYPE OF CONSTRUCTION USED.
10. THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE BUILDING LIMITS BY A REGISTERED GEOTECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS, THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 3'-0" MINIMUM BELOW FINISHED GRADE.
11. WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN AND MAY BE EXPOSED TO RAINFALL, THE EXCAVATIONS SHALL BE UNDERCUT AND A 4 INCH THICK MUD MAT OF 2000 PSI CONCRETE SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS PER GEOTECHNICAL ENGINEERS RECOMMENDATIONS.
12. SEE D4/S-601 FOR FOOTING WIDTH. ALL FOOTINGS ARE 13" DEEP & REINFORCED WITH (2) #5 TOP AND BOTTOM CONTINUOUS.
13. ⊕—INDICATES APPROXIMATE LOCATION OF FOOTING STEP. WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS. SEE C1/S-300 FOR DETAIL.
14. XX.X INDICATES BOTTOM OF FOOTING ELEVATION FROM F.F.



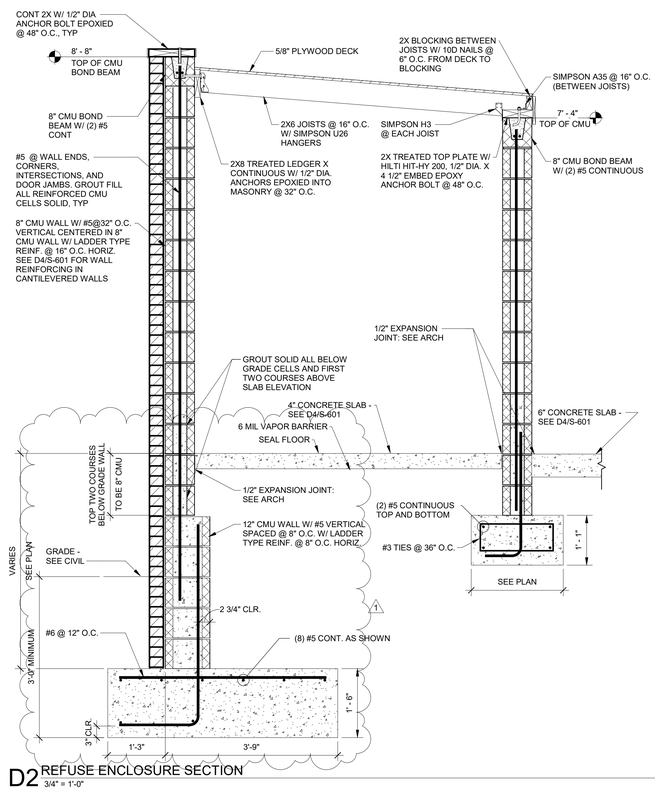
D3 ROOF FRAMING PLAN
1/4" = 1'-0"



C3 SECTION @ REFUSE APRON
3/4" = 1'-0"

1. SEE DETAIL E2/S-302 FOR ROOF NAILING.
2. FOR ADDITIONAL NAILING REQUIREMENTS SEE SCHEDULE ON S-001
3. ALL ANCHORS, CLIPS, STRAPS & ETC WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8" THICK, SHALL BE SIMPSON ZMAX (G185) STAINLESS STEEL OR AN ENGINEERED APPROVED EQUAL
4. ALL FASTENERS WHICH ARE IN CONTACT WITH COPPER BASED TREATED WOOD, SUCH AS ACQ, CBA OR SBX, AND ARE LESS THAN 3/8" DIAMETER, SHALL BE G185 (A HEAVY COATED GALVANIZED) STAINLESS OR AND ENGINEERED APPROVED EQUAL

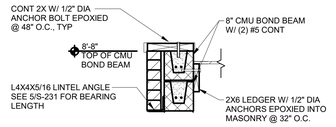
C4 FRAMING NOTES
N.T.S.



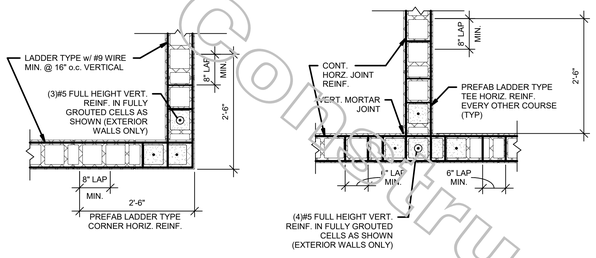
D2 REFUSE ENCLOSURE SECTION
3/4" = 1'-0"

1. ALL CONCRETE MASONRY UNITS SHALL BE LIGHTWEIGHT (DENSITY = 105 pcf) ABOVE FINISHED FLOOR & NORMAL WEIGHT (DENSITY = 135 pcf BELOW GRADE. ALL HOLLOW CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N, TYPE 1 WITH A MINIMUM ULTIMATE COMPRESSIVE PRISM STRENGTH (f'm) OF 1,900 psi FOR THE MASONRY ASSEMBLAGE.
2. MORTAR AT ALL EXTERIOR WALLS SHALL BE TYPE "S" MORTAR. MORTAR AT MASONRY VENEER SHALL BE TYPE "N" MORTAR. ALL MORTAR SHALL CONFORM TO ASTM C270. MASONRY CEMENT SHALL NOT BE USED FOR MORTAR.
3. ALL GROUT SHALL BE READY-MIX CONCRETE & HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,000 psi.
4. ALL CMU BOND BEAM UNITS SHALL BE REINFORCED WITH ONE #4 BAR, UNLESS NOTED OTHERWISE. PROVIDE CORNER BARS AND LAP BOND BEAM REINFORCING 48 BAR DIAMETERS.
5. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
6. ALL BOLTS, ANCHORS, REINFORCEMENT AND EMBEDDED ITEMS SHALL BE GROUTED IN PLACE.
7. ALL REINFORCING BAR SPLICES SHALL BE 48 BAR DIAMETERS, EXCEPT AS NOTED OTHERWISE.
8. MASONRY WALL HORIZONTAL JOINT REINFORCEMENT SHALL BE A MINIMUM 9 GA. HOT-DIP GALVANIZED WELDED STEEL LADDER TYPE WIRE CONFORMING TO ASTM A153. SPACE HORIZONTAL JOINT REINFORCEMENT 16" O.C. VERTICALLY, UNLESS NOTED OTHERWISE.
9. PROVIDE (1) VERTICAL BAR EACH CELL ADJACENT TO CONTROL JOINTS IN WALLS. PROVIDE (1) VERTICAL BAR IN EACH CELL FOR THE FIRST TWO CELLS AT ENDS OF WALLS AND WALL CORNERS. VERTICAL BARS SHALL MATCH REINFORCEMENT FOR REMAINDER OF WALL.
10. PROVIDE CONTROL JOINTS IN CMU WALLS WHERE SHOWN ON ARCHITECTURAL DRAWINGS. PLACE JOINTS FOR EXTERIOR CMU WALLS MAXIMUM ±24'-0" O.C.

C2 CONCRETE MASONRY GENERAL NOTES
N.T.S.

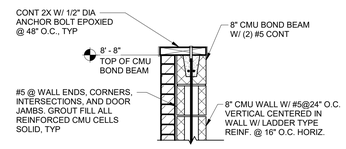


C1 SECTION ABOVE DOOR
3/4" = 1'-0"

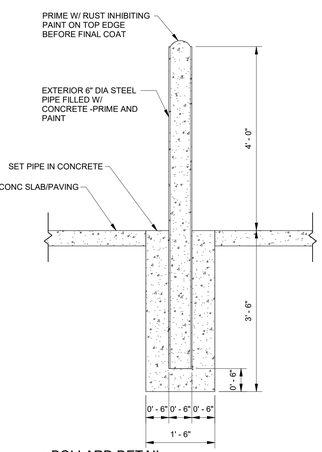


NOTE:
1. CORNER/TEE INTERSECTION REINF. SHALL BE LAPPED WITH THE TYPICAL LADDER TYPE HORIZ. REINF. AND EXTEND A MINIMUM OF 30" IN EACH DIRECTION AT THE INTERSECTION.

B2 CMU CORNER DETAILS
3/4" = 1'-0"



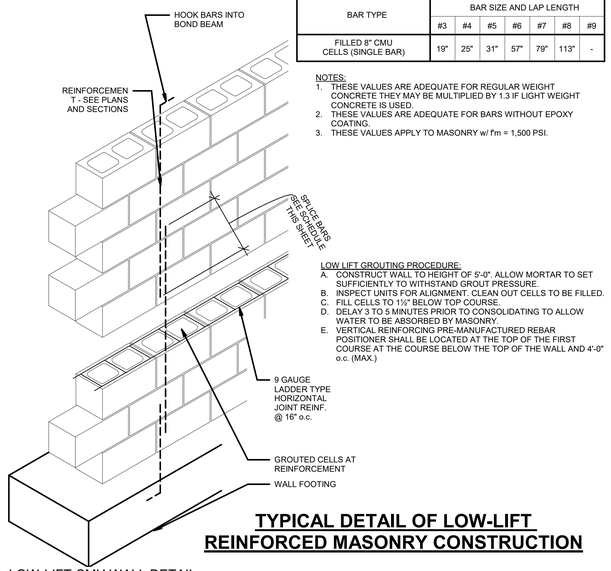
B1 SECTION AT WALL
3/4" = 1'-0"



A4 BOLLARD DETAIL
3/4" = 1'-0"

MINIMUM REINFORCING LAP LENGTH SCHEDULE							
BAR TYPE	BAR SIZE AND LAP LENGTH						
	#3	#4	#5	#6	#7	#8	#9
FILLED 8" CMU CELLS (SINGLE BAR)	19"	25"	31"	57"	79"	113"	-

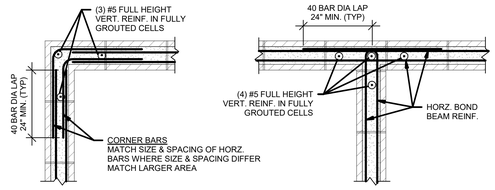
NOTES:
1. THESE VALUES ARE ADEQUATE FOR REGULAR WEIGHT CONCRETE THEY MAY BE MULTIPLIED BY 1.3 IF LIGHT WEIGHT CONCRETE IS USED.
2. THESE VALUES ARE ADEQUATE FOR BARS WITHOUT EPOXY COATING.
3. THESE VALUES APPLY TO MASONRY w/ f'm = 1,500 PSI.



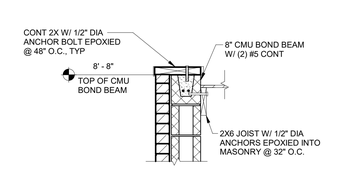
LOW LIFT GROUTING PROCEDURE:
A. CONSTRUCT WALL TO HEIGHT OF 5'-0". ALLOW MORTAR TO SET SUFFICIENTLY TO WITHSTAND GROUT PRESSURE.
B. INSPECT UNITS FOR ALIGNMENT. CLEAN OUT CELLS TO BE FILLED.
C. FILL CELLS TO 1½" BELOW TOP COURSE.
D. DELAY 3 TO 5 MINUTES PRIOR TO CONSOLIDATING TO ALLOW WATER TO BE ABSORBED BY MASONRY.
E. VERTICAL REINFORCING PRE-MANUFACTURED REBAR POSITIONER SHALL BE LOCATED AT THE TOP OF THE FIRST COURSE AT THE COURSE BELOW THE TOP OF THE WALL AND 4'-0" o.c. (MAX.)

TYPICAL DETAIL OF LOW-LIFT REINFORCED MASONRY CONSTRUCTION

A3 LOW-LIFT CMU WALL DETAIL
3/4" = 1'-0"



A2 MASONRY BOND BEAM CORNER DETAILS
3/4" = 1'-0"



A1 SECTION AT ROOF
3/4" = 1'-0"

For Construction - Not for Construction

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
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3528 Habersham @ Northlake
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CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	03-29-22	DESIGN NOTES

CONSTRUCTION

CONSULTANT PROJECT # 222001
DATE 3/29/2022
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SHEET
REFUSE ENCLOSURE PLANS AND DETAILS

SHEET NUMBER
S-601

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20-LE-04591-S-601-REFUSE ENCLOSURE PLANS AND DETAILS

C03300: FOOTINGS/ SLAB ON GRADE

PART 1 - GENERAL

1.1 SUMMARY
A. This Section specifies cast-in place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes.

1.2 SUBMITTALS
A. Product Data: For each type of product indicated.
B. Design Mixtures: For each concrete mixture.
C. Shop Drawings: For steel reinforcement.
D. Material: test reports & certificates.

1.3 QUALITY ASSURANCE
A. Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94/C 94M requirements for production facilities and equipment.
1. Manufacturer certified according to NRMCA's "Certification of Ready Mixed Concrete Production Facilities."
B. ACI Publications: Comply with the following unless modified by requirements in the Contract Documents:
1. ACI 301, "Specification for Structural Concrete," Sections 1 through 5.
C. Preinstallation Conference: Conduct conference at Project site.

PART 2 - PRODUCTS (C03000)

2.1 FORM-FACING MATERIALS
A. Wood Form Materials: At the discretion of the contractor.

2.2 STEEL REINFORCEMENT
A. Reinforcing Bars: ASTM A 615/A 615M, Grade 60 (Grade 420), deformed.
B. Plain-Steel Welded Wire Reinforcement: ASTM A 185, plain, fabricated from as-drawn steel wire into flat sheets.
C. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded wire reinforcement in place. Manufacture bar supports from steel wire, plastic, or precast concrete according to CRSI's "Manual of Standard Practice."

2.3 CONCRETE MATERIALS
A. Cementitious Material: Use the following cementitious materials, of the same type, brand, and source, throughout Project:
1. Portland Cement: ASTM C 150, Type I or II, unless otherwise noted.
B. Normal-Weight Aggregates: ASTM C 33, graded, 3/4-inch (19-mm) nominal maximum coarse-aggregate size.
C. Water: ASTM C 94/C 94M and potable.
D. Air-Entraining Admixture: ASTM C 260.
E. Chemical Admixtures: Provide admixtures certified by manufacturer to be compatible with other admixtures and that will not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.
1. Retarding Admixture: ASTM C 494/C 494M, Type B.
2. Plasticizing and Retarding Admixture: ASTM C 1017/C 1017M, Type II.

2.4 VAPOR RETARDERS
A. Plastic Vapor Barrier: 6 mil polyethylene film.

2.5 CURING MATERIALS
A. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. (305 g/sq. m) when dry.
B. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.
C. Water: Potable.
D. Clear, Waterborne, Membrane-Forming Curing and Sealing Compound: ASTM C 1315, Type 1, Class A

2.6 RELATED MATERIALS
A. Expansion- and Isolation-Joint-Filler Strips: ASTM D 1751, asphalt-saturated cellulosic fiber.

2.7 CONCRETE MIXTURES
A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301.
B. Proportion normal-weight concrete mixture as follows:
1. Minimum Compressive Strength for footings and slab on grade: 3000 psi at 28 days; all other locations, use 4000 psi, unless noted otherwise.
2. Slump Limit: 1 inch (25 mm) - 4 inches (100 mm), 8" (200 mm) if a plasticizer is used.
3. Air Content: 3 - 6 percent for all exterior concrete.

2.8 CONCRETE MIXING
A. Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete according to ASTM C 94/C 94M and ASTM C 1116, and furnish batch ticket information.
1. When air temperature is between 85 and 90 deg F (30 and 32 deg C), reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F (32 deg C), reduce mixing and delivery time to 60 minutes.

PART 3 - EXECUTION

3.1 FORMWORK
A. Design, erect, shore, brace, and maintain formwork according to ACI 301 to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads.
B. Construct formwork so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117.
C. Chamfer exterior corners and edges of permanently exposed concrete.

3.2 EMBEDDED ITEMS
A. Place and secure anchorage devices and other embedded items required for adjoining work that is attached to or supported by cast-in-place concrete. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.

3.3 VAPOR RETARDERS
A. Plastic Vapor Retarders: Place, protect, and repair vapor retarders according to ASTM E 1643 and manufacturer's written instructions.
1. Lap joints 6 inches (150 mm) and seal with manufacturer's recommended tape.

3.4 STEEL REINFORCEMENT
A. General: Comply with CRSI's "Manual of Standard Practice" for placing reinforcement.
1. Do not cut or puncture vapor retarder. Repair damage and reseal vapor retarder before placing concrete.

3.5 JOINTS
A. General: Construct joints true to line with faces perpendicular to surface plane of concrete.
B. Construction Joints: Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Architect.
C. Contraction Joints in Slabs-on-Grade: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of concrete thickness as follows:
1. Grooved Joints: Form contraction joints after initial floating by grooving and finishing each edge of joint to a radius of 1/8 inch (3.2 mm). Repeat grooving of contraction joints after applying surface finishes. Eliminate groover tool marks on concrete surfaces.
2. Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch- (3.2-mm-) wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before concrete develops random contraction cracks.
D. Isolation Joints in Slabs-on-Grade: After removing formwork, install joint-filler strips at slab junctions with vertical surfaces, such as column pedestals, foundation walls, grade beams, and other locations, as indicated.

3.6 CONCRETE PLACEMENT
A. Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections have been performed.
B. Do not add water to concrete during delivery, at the project site or during placement unless approved by the architect / engineer.
C. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete will be placed on concrete that has hardened enough to cause seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as indicated. Deposit concrete to avoid segregation.
1. Consolidate placed concrete with mechanical vibrating equipment according to ACI 301.
D. Cold-Weather Placement: Comply with ACI 306.1.
E. Hot-Weather Placement: Comply with ACI 301.

3.7 FINISHING FORMED SURFACES
A. Rough-Formed Finish: As-cast concrete texture imparted by form-facing material with tie holes and defects repaired and patched. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
1. Apply to concrete surfaces not exposed to public view.
B. Smooth-Formed Finish: As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams. Repair and patch tie holes and defects. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
1. Apply to concrete surfaces exposed to public view.
C. Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces, unless otherwise indicated.

3.8 FINISHING FLOORS AND SLABS
A. General: Comply with ACI 302.1R recommendations for screeding, restraightening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.
B. Wood Float Finish: Areas scheduled to receive quarry or ceramic tile are to be finished to a slightly gritty surface texture with straight continuous strokes with a stiff bristle push broom. do not steel trowel any areas to receive tile.
C. Broom Finish: Apply a broom finish to exterior concrete platforms, steps, and ramps, and elsewhere as indicated.

3.9 CONCRETE PROTECTING AND CURING
A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and ACI 301 for hot-weather protection during curing.
B. Evaporation Retarder: Apply evaporation retarder to unformed concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h (1 kg/sq. m x h) before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.
C. Cure concrete according to ACI 308.1, by one or a combination of the following methods:
1. Moisture Curing: Keep surfaces continuously moist for not less than seven days.
2. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches (300 mm), and sealed by waterproof tape or adhesive. Cure for not less than seven days. Immediately repair any holes or tears during curing period using cover material and waterproof tape.
3. Curing and Sealing Compound: Apply uniformly to floors and slabs indicated in a continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Repeat process 24 hours later and apply a second coat. Maintain continuity of coating and repair damage during curing period

3.10 CONCRETE SURFACE REPAIRS
A. Allow Owner to inspect concrete surfaces immediately upon removal of forms.
B. Defective Concrete: Repair and patch defective areas when approved by Owner.
C. Repair or replacement of defective concrete will be determined by the Owner.
D. Do not patch, fill, touch-up, repair or replace exposed concrete except upon express direction of Owner for each individual area.
E. Honeycomb or embedded debris in concrete is not acceptable. Notify owner upon discovery.

3.11 FIELD QUALITY CONTROL
A. Testing and Inspecting: Owner will engage a qualified independent testing and inspecting agency to perform field tests and inspections and prepare test reports.
1. Testing Services: Tests shall be performed according to ACI 301.

END OF SECTION C03300

C05000: STRUCTURAL AND MISCELLANEOUS STEEL

A: STRUCTURAL STEEL

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes structural steel and grout.

1.2 DEFINITIONS
A. Structural Steel: Elements of structural-steel frame, as classified by AISC 303, "Code of Standard Practice for Steel Buildings and Bridges."
1. All structural steel work shall conform to the AISC Manual of Steel Construction Thirteenth Edition "Allowable Stress Design".

1.3 PERFORMANCE REQUIREMENTS
A. Connections: Provide details of simple shear connections required by the Contract Documents to be selected or completed by structural-steel fabricator to withstand loads indicated and comply with other information and restrictions indicated.
1. Select and complete connections using schematic details indicated and AISC 360.
2. Use ASD; data are given at service-load level.
B. Moment Connections: Type FR, fully restrained.

1.4 ACTION SUBMITTALS
A. Product Data: For each type of product indicated.
B. Shop Drawings: Show fabrication of structural-steel components.
1. Submit Shop Drawings confirming that the connections have been designed in accordance with the AISC Codes specified. The Shop Drawings shall include complete details and schedules for fabrication and assembly of structural steel members. Reproduction of structural drawings for shop drawings is not permitted.

1.5 INFORMATIONAL SUBMITTALS
A. Qualification Data: For qualified Installer, fabricator, and testing agency.
B. Welding certificates.
C. Mill test reports for structural steel, including chemical and physical properties.
D. Source quality-control reports.

1.6 QUALITY ASSURANCE
A. Fabricator Qualifications: A qualified fabricator that participates in the AISC Quality Certification Program and is designated an AISC-Certified Plant, Category STD.
B. Installer Qualifications: 5 years experience with projects of similar complexity.
C. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."
D. Comply with applicable provisions of the following specifications and documents:
1. AISC 303.
2. AISC 360.
3. RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."

PART 2 - PRODUCTS (C05120)

2.1 STRUCTURAL-STEEL MATERIALS
A. W-Shapes: ASTM A 992/A 992M.
B. Channels, Angles, M , S-Shapes: ASTM A 36/A 36M.
C. Plate and Bar: ASTM A 36/A 36M.
D. Cold-Formed Hollow Structural Sections: ASTM A 500, Grade B, structural tubing.
E. Steel Pipe: ASTM A 53/A 53M, Type E or S, Grade B.
F. Welding Electrodes: Comply with AWS requirements.

2.2 BOLTS, CONNECTORS, AND ANCHORS
A. High-Strength Bolts, Nuts, and Washers: ASTM A 325, Type 1, heavy-hex steel structural bolts; ASTM A 563, Grade C, heavy-hex carbon-steel nuts; and ASTM F 436, Type 1, hardened carbon-steel washers; all with plain finish.
1. Direct-Tension Indicators: ASTM F 959, Type 325, compressible-washer type with plain finish.
B. High-Strength Bolts, Nuts, and Washers: ASTM A 490, Type 1, heavy-hex steel structural bolts or tension-control, bolt-nut-washer assemblies with splined ends; ASTM A 563, Grade DH, (ASTM A 563M, Class 10S) heavy-hex carbon-steel nuts; and ASTM F 436 (ASTM F 436M), Type 1, hardened carbon-steel washers with plain finish.
1. Direct-Tension Indicators: ASTM F 959, Type 490, compressible-washer type with plain finish.
C. Headed Anchor Rods: ASTM F 1554, Grade 55, weldable, straight.
1. Finish: Plain.
2. Embed 12 Bolt diameters of 12" minimum.
D. Threaded Rods: ASTM A.
1. Finish: Plain.
2. Embed 12 Bold diameters or 12" minimum.

2.3 PRIMER
A. Low-Emitting Materials: Paints and coatings shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
B. Primer: SSPC-Paint 25, Type II, zinc oxide, alkyd, linseed oil primer.
C. Primer: Fabricator's standard lead- and chromate-free, nonasphaltic, rust-inhibiting primer complying with MPI#79 and compatible with topoat.

2.4 GROUT
A. Nonmetallic, Shrinkage-Resistant Grout: ASTM C 1107, factory-packaged, nonmetallic aggregate grout, noncorrosive and nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.

2.5 FABRICATION
A. Structural Steel: Fabricate and assemble in shop to greatest extent possible. Fabricate according to AISC's "Code of Standard Practice for Steel Buildings and Bridges" and AISC 360.
B. Shear Connectors: Prepare steel surfaces as recommended by manufacturer of shear connectors. Use automatic end welding of headed-stud shear connectors according to AWS D1.1/D1.1M and manufacturer's written instructions (Do not use single fin plate).

2.6 SHOP CONNECTIONS
A. High-Strength Bolts: Shop install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
1. Joint Type: Snug tightened.
2. Minimum diameter of bolts shall be ¾", maximum diameter shall be 1 1/8" unless noted otherwise on drawings.
3. Provide at least (2) two bolts per connection.
B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.

2.7 SHOP PRIMING
A. Shop prime steel surfaces except the following:
1. Surfaces embedded in concrete or mortar. Extend priming of partially embedded members to a depth of 2 inches (50 mm).
2. Surfaces to be field welded.
3. Surfaces to be high-strength bolted with slip-critical connections.
B. Surface Preparation: Clean surfaces to be painted. Remove loose rust and mill scale and spatter, slag, or flux deposits. Prepare surfaces according to the following specifications and standards:
1. SSPC-SP 2, "Hand Tool Cleaning."
2. SSPC-SP 3, "Power Tool Cleaning."
C. Priming: Immediately after surface preparation, apply primer according to manufacturer's written instructions and at rate recommended by SSPC to provide a minimum dry film thickness of 2.5 mils (0.063 mm). Use priming methods that result in full coverage of joints, corners, edges, and exposed surfaces.

2.8 SOURCE QUALITY CONTROL
A. Testing Agency: Owner will engage an independent testing and inspecting agency to perform shop tests and inspections and prepare test reports.
1. Provide testing agency with access to places where structural-steel work is being fabricated or produced to perform tests and inspections.
B. Correct deficiencies in Work that test reports and inspections indicate does not comply with the Contract Documents.
C. Bolted Connections: Shop-bolted connections will be tested and inspected according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."
D. Welded Connections: In addition to visual inspection, shop-welded connections will be tested and inspected according to AWS D1.1/D1.1M and the following inspection procedures, at testing agency's option:
1. Liquid Penetrant Inspection: ASTM E 165.
2. Magnetic Particle Inspection: ASTM E 709; performed on root pass and on finished weld. Cracks or zones of incomplete fusion or penetration will not be accepted.
3. Ultrasonic Inspection: ASTM E 164.
4. Radiographic Inspection: ASTM E 94.

PART 3 - EXECUTION

3.1 EXAMINATION
A. Verify, with steel Erector present, elevations of concrete- and masonry-bearing surfaces and locations of anchor rods, bearing plates, and other embedments for compliance with requirements.
B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 ERECTION
A. Set structural steel accurately in locations and to elevations indicated and according to AISC 303 and AISC 360.
B. Base Bearing and Leveling Plates: Clean concrete- and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.
1. Set plates for structural members on wedges, shims, or setting nuts as required.
2. Weld plate washers to top of baseplate.
3. Snug-tighten typical base plate anchor rods, Pretension anchor rods in moment frames after supported members have been positioned and plumbed. Do not remove wedges or shims but, if protruding, cut off flush with edge of plate before packing with grout.
4. Promptly pack grout solidly between bearing surfaces and plates so no voids remain. Neatly finish exposed surfaces; protect grout and allow to cure. Comply with manufacturer's written installation instructions for shrinkage-resistant grouts.
C. Maintain erection tolerances of structural steel within AISC's "Code of Standard Practice for Steel Buildings and Bridges."

3.3 FIELD CONNECTIONS
A. High-Strength Bolts: Install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
1. Joint Type: Snug tightened.
B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.
1. Comply with AISC 303 and AISC 360 for bearing, alignment, adequacy of temporary connections, and removal of paint on surfaces adjacent to field welds.

3.4 FIELD QUALITY CONTROL
A. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to inspect field welds and high-strength bolted connections.
B. Bolted Connections: Bolted connections will be tested and inspected according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."
C. Welded Connections: Field welds will be visually inspected according to AWS D1.1/D1.1M.
1. In addition to visual inspection, field welds will be tested and inspected according to AWS D1.1/D1.1M and the following inspection procedures, at testing agency's option:
a. Liquid Penetrant Inspection: ASTM E 165.
b. Magnetic Particle Inspection: ASTM E 709; performed on root pass and on finished weld. Cracks or zones of incomplete fusion or penetration will not be accepted.
c. Ultrasonic Inspection: ASTM E 164.
d. Radiographic Inspection: ASTM E 94.

Correct deficiencies in Work that test reports and inspections indicate does not comply with the Contract Documents.

END OF SECTION C05000A

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FSR#04591

BUILDING TYPE / SIZE: P13 LE ALL
RELEASE: 21.11
PRINTED FOR
PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 222001
DATE 01/24/2022
DRAWN BY JM/LLM

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SHEET
STRUCTURAL SPECIFICATIONS

SHEET NUMBER
S-901

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20-LE-04591-S-901-STRUCTURAL SPECIFICATIONS

C05000: STRUCTURAL AND MISCELLANEOUS STEEL
B: COLD-FORMED METAL FRAMING

PART 1 - GENERAL
1.1 SUMMARY
A. Section Includes:
1. Load-bearing wall framing.
2. Exterior non-load-bearing wall framing.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of cold-formed steel framing product and accessory.
B. Product Data for each type of cold-formed metal framing product and accessory indicated.
C. Shop Drawings:
1. Include layout, spacings, sizes, thicknesses, and types of cold-formed steel framing; fabrication; and fastening and anchorage details, including mechanical fasteners.
2. Indicate reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details, and attachment to adjoining work.
3. For cold-formed metal framing indicated to comply with design loads. Include structural analysis data signed and sealed by a qualified professional engineer in the state if the project responsible for their preparation.
1.3 INFORMATIONAL SUBMITTALS
A. Qualification Data: For testing agency.
B. Welding certificates.
C. Product test reports.
D. Research reports.
1.4 QUALITY ASSURANCE
A. Product Tests: Mill certificates or data from a qualified independent testing agency.
B. Welding Qualifications: Qualify procedures and personnel according to AWS D1.3/D1.3M, "Structural Welding Code - Sheet Steel."
C. Comply with AISI S230 "Standard for Cold-Formed Steel Framing."
D. Structural design shall be in accordance with American Iron and Steel Institute specifications for the design of cold-formed steel structural members.

PART 2 - PRODUCTS (C05595)
2.1 MANUFACTURERS
A. Manufacturers: Subject to compliance with requirements
2.2 PERFORMANCE REQUIREMENTS
A. AISI Specifications and Standards: Unless more stringent requirements are indicated, comply with AISI S100 and AISI S200.
2.3 COLD-FORMED STEEL FRAMING, GENERAL
A. Steel Sheet: ASTM A 1003/A 1003M, Structural Grade, Type H, metallic coated, of grade and coating weight as follows:
1. Grade: As required by structural performance.
2. Coating: G60, A60, AZ50, or GF30.
B. Steel Sheet for Vertical Deflection Clips: ASTM A 653/A 653M, structural steel, zinc coated, of grade and coating as follows:
1. Grade: As required by structural performance.
2. Coating: G60 (Z180).
2.4 LOAD-BEARING WALL FRAMING
A. Steel Studs: Manufacturer's standard C-shaped steel studs, of web depths indicated, punched, with stiffened flanges, and as follows:
1. Minimum Base-Metal Thickness: 0.0538 inch.
2. Flange Width: 1-5/8 inches.
3. Section Properties: As required by structural performance and deflection limitations.
a. Exterior: Horizontal deflection l/600
b. Interior: Horizontal deflection l/240
B. Steel Track: Manufacturer's standard U-shaped steel track, of web depths indicated, unpunched, with straight flanges, and matching minimum base-metal thickness of steel studs.
C. Steel Box or Back-to-Back Headers: Manufacturer's standard C-shapes used to form header beams, of web depths indicated, unpunched, with stiffened flanges, and as follows:
1. Minimum Base-Metal Thickness: 0.0538 inch.
2. Flange Width: 1-5/8 inches.
3. Section Properties: As required by structural performance and deflection limitations.
a. Vertical Deflection: l/360
2.5 EXTERIOR/INTERIOR NON-LOAD-BEARING WALL FRAMING
A. Steel Studs: Manufacturer's standard C-shaped steel studs, of web depths indicated, punched, with stiffened flanges, and as follows:
1. Minimum Base-Metal Thickness: 0.0538 inch.
2. Flange Width: 1-5/8 inches.
3. Section Properties: As required by structural performance and deflection limitations.
a. Horizontal Deflection: l/360.
B. Steel Track: Manufacturer's standard U-shaped steel track, of web depths indicated, unpunched, with unstiffened flanges, and matching minimum base-metal thickness of steel studs.
C. Vertical Deflection Clips: Manufacturer's standard head clips, capable of accommodating upward and downward vertical displacement of primary structure through positive mechanical attachment to stud web.
1. Manufacturers: Subject to compliance with requirements:
a. AllSteel & Gypsum Products, Inc.
b. ClarkWestern Building Systems, Inc.
c. Dietrich Metal Framing; a Worthington Industries company.
d. MarinoWARE.
e. SCAFCO Corporation.
f. Steel Network, Inc. (The).
g. Steeler, Inc.
D. Single Deflection Track: Manufacturer's single, deep-leg, U-shaped steel track; unpunched, with unstiffened flanges, of web depth to contain studs while allowing free vertical movement, with flanges designed to support horizontal loads and transfer them to the primary structure.
E. Double Deflection Tracks: Manufacturer's double, deep-leg, U-shaped steel tracks, consisting of nested inner and outer tracks; unpunched, with unstiffened flanges.
F. Drift Clips: Manufacturer's standard bypass or head clips, capable of isolating wall stud from upward and downward vertical displacement and lateral drift of primary structure through positive mechanical attachment to stud web and structure.
2.6 FRAMING ACCESSORIES
A. Fabricate steel-framing accessories from steel sheet, ASTM A 1003/A 1003M, Structural Grade, Type H, metallic coated, of same grade and coating weight used for framing members.
B. Provide accessories of manufacturer's standard thickness and configuration.
2.7 ANCHORS, CLIPS, AND FASTENERS
A. Steel Shapes and Clips: ASTM A 36, zinc coated by hot-dip process according to ASTM A 123.
B. Expansion Anchors: Fabricated from corrosion-resistant materials, with allowable load or strength design capacities calculated according to ICC-ES AC193 and ACI 318 greater than or equal to the design load, as determined by testing per ASTM E 488 conducted by a qualified testing agency.
C. Power-Actuated Anchors: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with allowable load capacities calculated according to ICC-ES AC70, greater than or equal to the design load, as determined by testing per ASTM E 1190 conducted by a qualified testing agency.
D. Mechanical Fasteners: ASTM C 1513, corrosion-resistant-coated, self-drilling, self-tapping, steel drill screws.
1. Head Type: Low-profile head beneath sheathing, manufacturer's standard elsewhere.
2.8 MISCELLANEOUS MATERIALS
A. Galvanizing Repair Paint: SSPC-Paint 20 or MIL-P-21035B.
B. Cement Grout: Portland cement, ASTM C150, Type I; and clean, natural sand, ASTM C 404. Mix at ratio of 1 part cement to 2-1/2 parts sand, by volume, with minimum water required for placement and hydration.
C. Nonmetallic, Nonshrink Grout: Premixed, nonmetallic, noncorrosive, nonstaining grout containing selected silica sands, portland cement, shrinkage-compensating agents, and plasticizing and water-reducing agents, complying with ASTMC 1107/C 1107M, with fluid consistency and 30-minute working time.
D. Shims: Load bearing, high-density multimonomer plastic, and nonleaching; or of cold-formed steel of same grade and coating as framing members supported by shim
E. Sealer Gaskets: Closed-cell neoprene foam, 1/4 inch (6.4 mm) thick, selected from manufacturer's standard widths to match width of bottom track or rim track members.

PART 3 - EXECUTION
3.1 PREPARATION
A. Install load bearing shims or grout between the underside of load-bearing wall bottom track and the top of foundation wall or slab at locations with a gap larger than 1/4 inch (6 mm) to ensure a uniform bearing surface on supporting concrete or masonry construction.
B. Install sealer gaskets at the underside of wall bottom track or rim track and at the top of foundation wall or slab at stud or joist locations.
3.2 INSTALLATION, GENERAL
A. Cold-formed steel framing may be shop or field fabricated for installation, or it may be field assembled.
B. Install cold-formed steel framing according to AISI S200 and to manufacturer's written instructions unless more stringent requirements are indicated.
C. Install cold-formed steel framing and accessories plumb, square, and true to line, and with connections securely fastened.
D. Install framing members in one-piece lengths.
E. Install temporary bracing and supports to secure framing and support loads comparable in intensity to those for which structure was designed. Maintain braces and supports in place, undisturbed, until entire integrated supporting structure has been completed and permanent connections to framing are secured.
F. Care shall be exercised at all times to avoid damage through careless handling during unloading, storing and erection of framing members and sub-assemblies.
G. Joining of framing members shall be made with self-drilling screws or welding.
H. Fasten hole reinforcing plate over web penetrations that exceed size of manufacturer's approved or standard punched openings.
I. Erection Tolerances: Install cold-formed steel framing level, plumb, and true to line to a maximum allowable tolerance variation of 1/8 inch in 10 feet (1:960) and as follows:
1. Space individual framing members no more than plus or minus 1/8 inch (3 mm) from plan location. Cumulative error shall not exceed minimum fastening requirements of sheathing or other finishing materials.
3.3 LOAD-BEARING WALL INSTALLATION
A. Install continuous top and bottom tracks sized to match studs. Align tracks accurately and securely anchor at corners and ends, and at spacings as follows:
1. Anchor Spacing: To match stud spacing unless noted otherwise.
B. Squarely seat studs against top and bottom tracks with gap not exceeding of 1/8 inch (3 mm) between the end of wall framing member and the web of track. Fasten both flanges of studs to top and bottom tracks. Space studs as follows:
1. Stud Spacing: As indicated (1550 psi; E=1,600,000 psi
C. Set studs plumb, except as needed for diagonal bracing or required for nonplumb walls or warped surfaces and similar configurations.
D. Align studs vertically where floor framing interrupts wall-framing continuity. Where studs cannot be aligned, continuously reinforce track to transfer loads.
E. Align floor and roof framing over studs. Where framing cannot be aligned, continuously reinforce track to transfer loads.
F. Anchor studs abutting structural columns or walls, including masonry walls, to supporting structure as indicated.
G. Install headers over wall openings wider than stud spacing. Locate headers above openings as indicated. Fabricate headers of compound shapes indicated or required to transfer load to supporting studs, complete with clip-angle connectors, web stiffeners, or gusset plates.
1. Frame wall openings with not less than a double stud at each jamb of frame as indicated on Shop Drawings. Fasten jamb members together to uniformly distribute loads.
2. Install runner tracks and jack studs above and below wall openings. Anchor tracks to jamb studs with clip angles or by welding, and space jack studs same as full-height wall studs.
H. Install supplementary framing, blocking, and bracing in stud framing indicated to support fixtures, equipment, services, casework, heavy trim, furnishings, and similar work requiring attachment to framing.
1. If type of supplementary support is not indicated, comply with stud manufacturer's written recommendations and industry standards in each case, considering weight or load resulting from item supported.
I. Install horizontal bridging in stud system, spaced vertically 48 inches unless noted otherwise. Fasten at each stud intersection.
1. Bridging: Cold-rolled steel channel, welded or mechanically fastened to webs of punched studs with a minimum of two screws into each flange of the clip angle for framing members up to 6 inches (150 mm) deep.
2. Bridging: Combination of flat, taut, steel sheet straps of width and thickness indicated and stud-track solid blocking of width and thickness to match studs. Fasten flat straps to stud flanges and secure solid blocking to stud webs or flanges.
3. Bridging: Proprietary bridging bars installed according to manufacturer's written instructions.
J. Install steel sheet diagonal bracing straps to both stud flanges, terminate at and fasten to reinforced top and bottom tracks. Fasten clip-angle connectors to multiple studs at ends of bracing and anchor to structure.
K. Install miscellaneous framing and connections, including supplementary framing, web stiffeners, clip angles, continuous angles, anchors, and fasteners, to provide a complete and stable wall-framing system.
3.4 EXTERIOR/INTERIOR NON-LOAD-BEARING WALL INSTALLATION
A. Install continuous tracks sized to match studs. Align tracks accurately and securely anchor to supporting structure as indicated.
B. Fasten both flanges of studs to top and bottom track unless otherwise indicated. Space studs as follows:
1. Stud Spacing: As indicated (16" o/c maximum).
C. Set studs plumb, except as needed for diagonal bracing or required for nonplumb walls or warped surfaces and similar requirements.
D. Isolate non-load-bearing steel framing from building structure to prevent transfer of vertical loads while providing lateral support.
1. Install single deep-leg deflection tracks and anchor to building structure.
2. Install double deep-leg deflection tracks and anchor outer track to building structure.
3. Connect vertical deflection clips to infill studs and anchor to building structure.
4. Connect drift clips to cold-formed metal framing and anchor to building structure.
E. Install horizontal bridging in wall studs, spaced vertically in rows indicated on Shop Drawings but not more than 48 inches (1220 mm) apart. Fasten at each stud intersection.
1. Top Bridging for Single Deflection Track: Install row of horizontal bridging within 12 inches (305 mm) of single deflection track. Install a combination of bridging and stud or stud-track solid blocking of width and thickness matching studs, secured to stud webs or flanges.
a. Install solid blocking at 96-inch centers unless noted otherwise.
2. Bridging: Cold-rolled steel channel, welded or mechanically fastened to webs of punched studs.
3. Bridging: Combination of flat, taut, steel sheet straps of width and thickness indicated and stud-track solid blocking of width and thickness to match studs. Fasten flat straps to stud flanges and secure solid blocking to stud webs or flanges.
4. Bridging: Proprietary bridging bars installed according to manufacturer's written instructions.
F. Install miscellaneous framing and connections, including stud kickers, web stiffeners, clip angles, continuous angles, anchors, and fasteners, to provide a complete and stable wall-framing system.
3.5 FIELD QUALITY CONTROL
A. Testing: Owner will engage a qualified independent testing and inspecting agency to perform field tests and inspections and prepare test reports.
B. Field and shop welds will be subject to testing and inspecting.
C. Testing agency will report test results promptly and in writing to Contractor and Architect.
D. Remove and replace work where test results indicate that it does not comply with specified requirements.
E. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.
3.6 REPAIRS AND PROTECTION
A. Galvanizing Repairs: Prepare and repair damaged galvanized coatings on fabricated and installed cold-formed steel framing with galvanized repair paint according to ASTM A 780 and manufacturer's written instructions.
B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and installer, that ensure that cold-formed steel framing is without damage or deterioration at time of Substantial Completion.
END OF C05000 B

C06000: CARPENTRY
A: ROUGH CARPENTRY

PART 1 - GENERAL
1.1 SUMMARY
A. This Section includes the following:
1. Framing with dimension lumber.
2. Rooftop equipment bases and support curbs.
3. Wood blocking, cants, and nailers.
4. Wood furring and grounds.
5. Wood sleepers.
6. Plywood backing panels.
7. Engineered Wood Products.

PART 2 - PRODUCTS
2.1 WOOD PRODUCTS, GENERAL (C06115)
A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
1. Factory mark each piece of lumber with grade stamp of grading agency.
2. For exposed lumber indicated to receive a stained or natural finish, mark grade stamp on end or back of each piece.
3. Provide dressed lumber, S4S, unless otherwise indicated.
2.2 WOOD-PRESERVATIVE-TREATED LUMBER (C06115)
A. Preservative Treatment by Pressure Process: AWPA C2.
1. Preservative Chemicals: Acceptable to authorities having jurisdiction, and containing no arsenic or chromium.
B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent.
C. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.
D. Application: Treat items indicated on Drawings, and the following:
1. Wood cants, nailers, curbs, equipment support bases, blocking, stripping, and similar members in connection with roofing, flashing, vapor barriers, and waterproofing.
2. Wood sills, sleepers, blocking, furring, stripping, and similar concealed members in contact with masonry or concrete.
3. Wood framing and furring attached directly to the interior of below-grade exterior masonry or concrete walls.
4. Wood framing members that are less than 18 inches (450 mm) above the ground in crawl spaces or unexcavated areas.
5. Wood floor plates that are installed over concrete slabs-on-grade.
2.3 FIRE-RETARDANT-TREATED MATERIALS (C06115)
A. General: Comply with performance requirements in AWPA C20 (lumber) and AWPA C27 (plywood).
B. Identify fire-retardant-treated wood with appropriate classification marking of testing and inspecting agency acceptable to authorities having jurisdiction.
C. Application: Treat items indicated on Drawings.
2.4 DIMENSION LUMBER FRAMING (C06115)
A. Maximum Moisture Content: 19 percent.
B. Non-Load-Bearing Interior Partitions: No. 2 or better.
C. Framing Other Than Non-Load-Bearing Interior Partitions:
1. Southern pine No. 2 grade ; SPIB.
2. Douglas Fir-Larch No. 1 grade; BCLIB, or WWPA.
3. Any other visually graded dimension lumber with the minimum design values of Fb=1200 psi; Ft=725 psi; Fv=175 psi; Fc, perpendicular=565 psi; Fc, parallel=1550 psi; E=1,600,000 psi.
4. All other visually graded dimension lumber must be specifically designed for at the Contractor's request.
D. Exposed Exterior and Interior Framing Indicated to Receive a Stained or Natural Finish: Provide material hand-selected for uniformity of appearance and freedom from characteristics, on exposed surfaces and edges, that would impair finish appearance, including decay, honeycomb, knot-holes, shake, splits, torn grain, and wane.
1. Species and Grade: As indicated above for load-bearing construction of same type.
2. Species and Grade: Southern pine, No. 1 grade; SPIB.
3. Species and Grade: Douglas fir-larch; No. 1 grade; WCLIB, or WWPA.
2.5 MISCELLANEOUS LUMBER (C06495)
A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:
1. Blocking.
2. Nailers.
3. Rooftop equipment bases and support curbs.
4. Cants.
5. Furring.
6. Grounds.
B. For items of dimension lumber size, provide Construction or No. 2 grade lumber with 19 percent maximum moisture content of any species.
2.6 PLYWOOD BACKING PANELS (C06496)
A. Telephone, Kitchen Equipment, and Electrical Equipment Backing Panels: DOC PS 1, Exposure 1, C-D Plugged, fire-retardant treated, in thickness indicated or, if not indicated, not less than 1/2-inch (13-mm) nominal thickness.
2.7 FASTENERS (C06115)
A. General: Provide fasteners of size and type indicated that comply with requirements specified.
1. Where rough carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.
B. Power-Driven Fasteners: NES NER-272.
C. Bolts: Steel bolts complying with ASTM A 307, Grade A (ASTM F 568M, Property Class 4.6); with ASTM A 563 (ASTM A 563M) hex nuts and, where indicated, flat washers, unless noted otherwise on sections and plans.
D. Nails: All nails shall be common type.
2.8 METAL FRAMING ANCHORS (C06115)
A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Simpson Strong-Tie Co., Inc.
B. Allowable Design Loads: Provide products with allowable design loads, as published by manufacturer, that meet or exceed those indicated. Manufacturer's published values shall be determined from empirical data or by rational engineering analysis and demonstrated by comprehensive testing performed by a qualified independent testing agency.
C. Galvanized Steel Sheet: Hot-dip, zinc-coated steel sheet complying with ASTM A 653/A 653M, G60 (Z180) coating designation.
2.9 ENGINEERED WOOD PRODUCTS (C06170)
A. Engineered Wood Products, General: Products shall contain no urea formaldehyde.
B. Laminated-Veneer Lumber: Structural composite lumber made from wood veneers with grain primarily parallel to member lengths, evaluated and monitored according to ASTM D 5456 and manufactured with an exterior-type adhesive complying with ASTM D 2559.
1. Extreme Fiber Stress in Bending, Edgewise: 2900 psi for 12-inch nominal depth members.
2. Modulus of Elasticity, Edgewise: 2,000,000 psi.
C. Wood I-Joists: Prefabricated units, I-shaped in cross section, made with solid or structural composite lumber flanges and wood-based structural panel webs, let into and bonded to flanges. Provide units complying with material requirements of and with structural capacities established and monitored according to ASTM D 5055.
1. Web Material: Either oriented strand board or plywood, complying with DOC PS 1 or DOC PS 2, Exposure 1.
2. Structural Properties: Provide units with depths and design values not less than those indicated.
3. Provide units complying with APA PRI-400, factory marked with APA trademark indicating nominal joist depth, joist class, span ratings, mill identification, and compliance with APA standard.
D. Rim Boards: Product designed to be used as a load-bearing member and to brace wood I-joists at bearing ends, complying with research/evaluation reports for I-joists.
1. Material: Product made from any combination of solid lumber, wood strands and veneers.
2. Thickness: 1-1/4 inches.
3. Provide performance-rated product complying with APA PRR-401 rim board grade, factory marked with APA trademark indicating thickness, grade and compliance with APA standard.

PART 3 - EXECUTION
3.1 INSTALLATION
A. Set rough carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry to other construction; scribe and cope as needed for accurate fit. Locate furring, nailers, blocking, grounds, and similar supports to comply with requirements for attaching other construction.
B. Framing Standard: Comply with AF&PA's "Details for Conventional Wood Frame Construction," unless otherwise indicated.
C. Framing with Engineered Wood Products: Install engineered wood products to comply with manufacturer's written instructions.
D. Metal Framing Anchors: Install metal framing to comply with manufacturer's written instructions.
E. Do not splice structural members between supports, unless otherwise indicated.
F. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.
G. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:
1. NES NER-272 for power-driven fasteners.
2. Table 2304.9.1, "Fastening Schedule," in ICC's International Building Code.
END OF C06000 A

C06000: CARPENTRY
B: HEAVY TIMBER FRAMING

PART 1 - GENERAL
1.1 SUMMARY
A. Section includes framing using timbers.
1.2 DEFINITIONS
A. Timbers: Lumber of 5 inches nominal (114 mm actual) or greater in least dimension.
B. Inspection agencies, and the abbreviations used to reference them, include the following:
1. SPIB: Southern Pine Inspection Bureau (The).
2. WWPA: Western Wood Products Association.

PART 2 - PRODUCTS

2.1 TIMBER (C06115)
A. Comply with DOC PS 20 and with grading rules of lumber-grading agencies certified by ALSC's Board of Review as applicable.
1. Factory mark each item of timber with grade stamp of grading agency.
2. For exposed timber indicated to receive a stained or natural finish, apply grade stamps to surfaces that are not exposed to view, or omit grade stamps and provide certificates of grade compliance issued by grading agency.
B. Timber Species and Grade: Southern pine; No. 2, SPIB.
C. Structural Properties: Provide any species and grade that, for moisture content provided, complies with required structural properties.
1. Allowable Stress Ratings for 12-Inch Nominal (286-mm Actual) Depth: Fb 1500 psi (10.3 MPa) and E 1,500,000 psi (10 340 MPa)
D. Moisture Content: Provide timber with 19 percent maximum moisture content at time of dressing.
E. Dressing: Provide dressed timber (S4S) unless otherwise indicated.

2.2 TIMBER CONNECTORS (C06115)
A. Manufacturers: Subject to compliance with requirements:
B. Basis-of-Design Products: Subject to compliance with requirements.
C. Provide bolts, 3/4 inch (19 mm) unless otherwise indicated, complying with ASTM A 307, Grade A (ASTM F 568M, Property Class 4.6); provide nuts complying with ASTM A 563 (ASTM A 563M); and, where indicated, provide flat washers.
D. Materials: Unless otherwise indicated, fabricate from the following materials:
1. Structural-steel shapes, plates, and flat bars complying with ASTM A 36/A 36M.
2. Round steel bars complying with ASTM A 575, Grade M 1020.
E. Finish steel assemblies and fasteners with rust-inhibitive primer, 2-mil (0.05-mm) dry film thickness.
PART 3 - EXECUTION
3.1 INSTALLATION
A. General: Erect heavy timber framing true and plumb. Provide temporary bracing to maintain lines and levels until permanent supporting members are in place.
B. Fitting: Fit members by cutting and restoring exposed surfaces to match specified surfacing.
1. Predrill for fasteners using timber connectors as templates.
2. Finish exposed surfaces to remove planing or surfacing marks, and to provide a finish equivalent to that produced by machine sanding with No. 120 grit sandpaper.
3. Coat crosscuts with end sealer.
C. Install timber connectors as indicated.
1. Install bolts with orientation as indicated or, if not indicated, as directed by Architect.
3.2 ADJUSTING
A. Repair damaged surfaces and finishes after completing erection. Replace damaged heavy timber framing if repairs are not approved by Architect.
END OF C06000 A

C06000: CARPENTRY
C: SHEATHING
PART 1 - GENERAL
1.1 SUMMARY
A. Section Includes:
1. Wall sheathing.
2. Roof sheathing.
3. Composite nail base insulated roof sheathing.
4. Underlayment.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.
1. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated plywood complies with requirements.
2. Include data for fire-retardant treatment from chemical treatment manufacturer and certification by treating plant that treated plywood complies with requirements.
1.3 INFORMATIONAL SUBMITTALS
A. Evaluation Reports: For following products, from ICC-ES:
1. Preservative-treated plywood.
PART 2 - PRODUCTS
2.1 WOOD PANEL PRODUCTS (C06115)
A. Emissions: Products shall meet the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
B. Plywood, Either DOC PS 1 or DOC PS 2 unless otherwise indicated.
C. Oriented Strand Board: DOC PS 2.
2.2 WALL SHEATHING (C06115)
A. Plywood Wall Sheathing: Exterior, Structural I sheathing.
B. Oriented-Strand-Board Wall Sheathing: Exposure 1, Structural I sheathing.
2.3 ROOF SHEATHING (C06115)
A. Plywood Roof Sheathing: Exposure 1, Structural I sheathing.
B. Oriented-Strand-Board Roof Sheathing: Exposure 1, Structural I sheathing.
2.4 FASTENERS (C06115)
A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.
1. For roof and wall sheathing, provide fasteners with hot-dip zinc coating complying with ASTM A 153.
PART 3 - EXECUTION
3.1 INSTALLATION, GENERAL
A. Do not use materials with defects that impair quality of sheathing or pieces that are too small to use with minimum number of joints or optimum joint arrangement. Arrange joints so that pieces do not span between fewer than three support members.
B. Cut panels at penetrations, edges, and other obstructions of work; fit tightly against abutting construction unless otherwise indicated.
C. Securely attach to substrate by fastening as indicated, complying with the following:
1. NES NER-272 for power-driven fasteners.
2. Table 2304.9.1, "Fastening Schedule," in ICC's "International Building Code."
3. Table R602.3(1), "Fastener Schedule for Structural Members," and Table R602.3(2), "Alternate Attachments," in ICC's "International Residential Code for One- and Two-Family Dwellings."
D. Coordinate wall and roof sheathing installation with flashing and joint-sealant installation so these materials are installed in sequence and manner that prevent exterior moisture from passing through completed assembly.
3.2 WOOD STRUCTURAL PANEL INSTALLATION
A. General: Comply with applicable recommendations in APA Form No. E30, "Engineered Wood Construction Guide," for types of structural-use panels and applications indicated.
B. Fastening Methods: Fasten panels as indicated below:
1. Wall and Roof Sheathing:
a. Nail to wood framing.
b. Screw to cold-formed metal framing.
c. Space panels 1/8 inch (3 mm) apart at edges and ends.

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1/24/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE ALL
RELEASE: 21.11
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REVISION SCHEDULE
NO. DATE DESCRIPTION

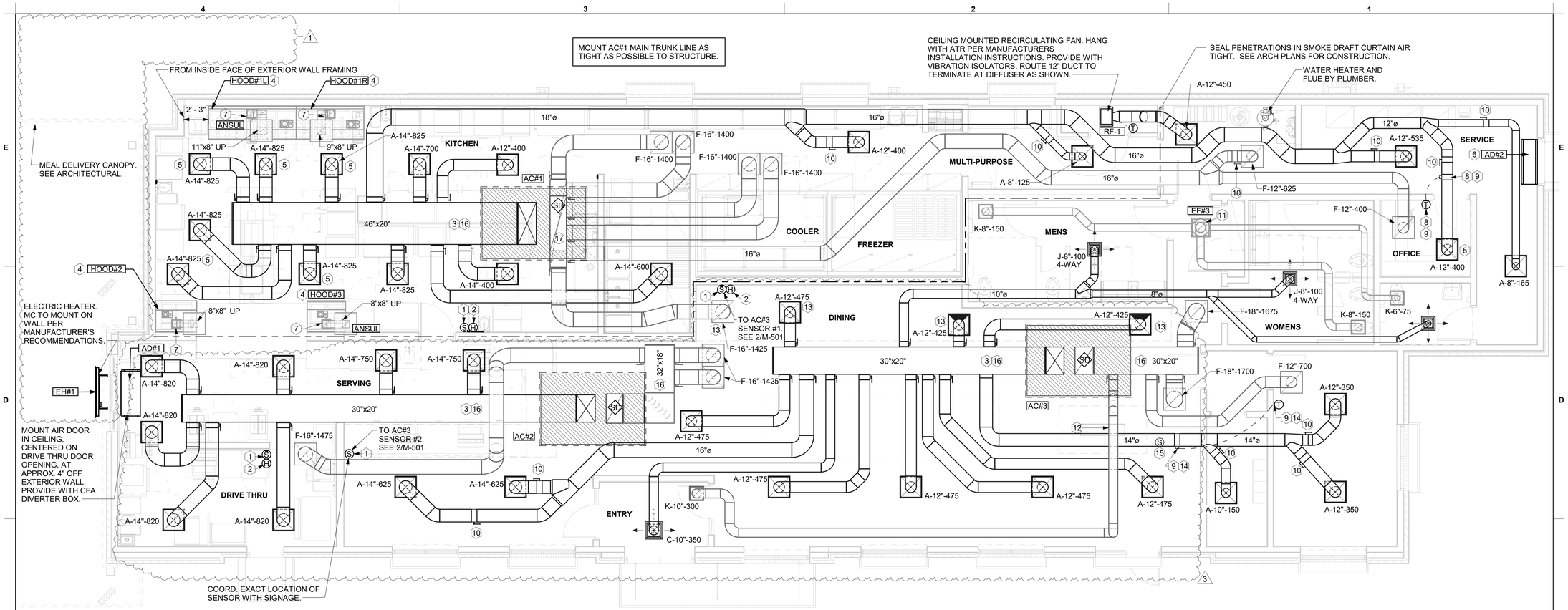
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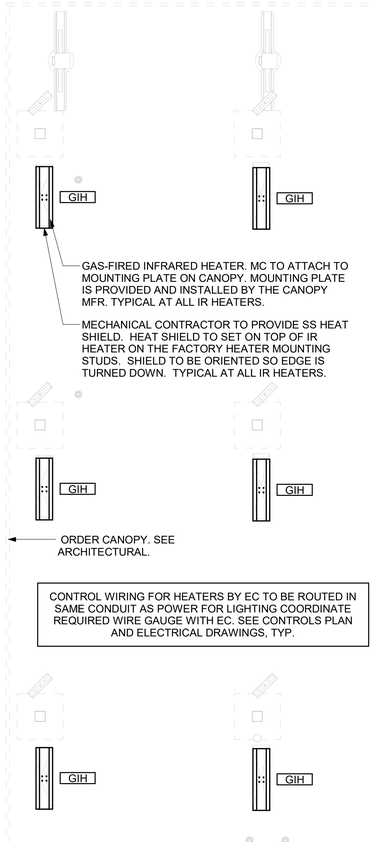
SHEET
STRUCTURAL SPECIFICATIONS

SHEET NUMBER
S-902

1/25/2022 8:10:46 PM BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_STR_WD_WEC.rvt
20-LE-04591-S-902-STRUCTURAL SPECIFICATIONS



1 MECHANICAL FLOOR PLAN
1/4" = 1'-0"



2 MECHANICAL FLOOR PLAN - ORDER CANOPY
1/4" = 1'-0"

SHEET NOTES

1. DUCT SIZES SERVING DIFFUSERS AND GRILLES ARE SAME SIZE AS DIFFUSER OR GRILLE NECK UNLESS NOTED OTHERWISE.
2. FLEXIBLE DUCT NOT SHOWN FOR CLARITY. ALL TAKE-OFFS SHALL INCLUDE FLEXIBLE DUCT. SEE DETAIL 1/M-401 FOR FLEXIBLE DUCT INSTALLATION REQUIREMENTS.
3. FOR SUPPLY AND RETURN OPENINGS, CUT OPENING AROUND DUCT DROPS 4" TO 8" MINIMUM (EXCEPT WHERE STRUCTURE PREVENTS THIS). SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
4. AT EACH PIECE OF ROOF EQUIPMENT, PROVIDE A PLASTIC ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. THE LABEL IS TO HAVE A SELF ADHESIVE BACKING.
5. UNLESS NOTED OTHERWISE, MC TO ADJUST ALL DIFFUSER AIR PATTERN DEFLECTORS TO THROW HORIZONTALLY ALONG THE CEILING.
6. SUPPORT ALL DUCT DROPS AT BASE OF DROP FROM STRUCTURE.

CANOPY GENERAL NOTES

1. COORDINATE NEW WORK WITH EXISTING CONDUIT, STRUCTURE, AND PIPING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
2. COORDINATE LOCATION AND RESPONSIBILITIES FOR UNDERGROUND PIPING AND ASSOCIATED TRENCHING WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.
3. EXPOSED GAS PIPING SHALL BE PAINTED BY GENERAL CONTRACTOR.
4. ACTUAL NUMBER OF GAS INFRARED HEATERS WILL BE DETERMINED BY SITE-SPECIFIC CANOPY LAYOUT AND EQUIPMENT LOCATIONS, AS INDICATED ON ARCHITECTURAL PLANS.
5. CONTROL WIRING FOR HEATERS BY EC. COORDINATE REQUIRED WIRE GAUGE WITH EC. SEE CONTROLS PLAN AND ELECTRICAL DRAWINGS, TYP.

KEY NOTES

1. MOUNT REMOTE SENSOR ON WALL AT 5-0" AFF U.N.O. AND ROUTE WIRING BACK TO SUNCOAST TEMP CONTROL PANEL. FOR SENSOR SERVING AC#1, COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT.
2. MOUNT TRANE REMOTE HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
3. BRANCH TAKE-OFFS ARE NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY OFFSET OR ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.
4. SEE ELEVATIONS ON M-301 FOR CJ FAN DUCTING REQUIREMENTS.
5. MECHANICAL CONTRACTOR TO ADJUST PATTERN DEFLECTORS TO THROW STRAIGHT DOWN.
6. AIR CURTAIN MOUNTED OVER DOOR HEADER AT 7'-2" AFF TO BOTTOM OF UNIT. PROVIDE BLOCKING IN WALL BEHIND AIR CURTAIN. USE FACTORY PRE-PUNCHED MOUNTING HOLES ON BACKSIDE OF AIR CURTAIN ONLY. ATTACH AIR CURTAIN TO WALL USING 3/8" LAG BOLTS, LENGTH AS REQUIRED TO FULLY PENETRATE BLOCKING. LOCATE MAGNETIC CONTACT TYPE MICROSWITCH IN DOOR FRAME ON STRIKE SIDE.
7. HALTON MBD DAMPER AT HOOD COLLAR BY MECHANICAL CONTRACTOR. SEE HOOD ELEVATIONS ON M-301 FOR LOCATION.
8. YOUNG REGULATOR 12" MODEL 2010 ROUND ZONE DAMPER WITH MODEL T-312CE AUTOMATIC CHANGEOVER THERMOSTAT. MOUNT T'STAT AT 4'-0" AFF. POWER OPEN/SPRING CLOSE. ADJUST MECHANICAL LIMIT FOR 50 CFM MINIMUM AIRFLOW. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE ZONE DAMPER. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE ZONE DAMPER DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AND AVAILABILITY. ZONE DAMPERS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
9. PROVIDE 120V/24V 50 VA TRANSFORMER TO SERVE YOUNG REGULATOR ZONE DAMPER ACTUATOR AND THERMOSTAT. POWER TRANSFORMER FROM 120V POWER CIRCUIT THAT REMAINS LIVE 24/7. PROVIDE ALL NECESSARY WIRING AND COMPONENTS TO MAKE CONTROL AND POWER CONNECTIONS TO TRANSFORMER, ZONE DAMPER, AND THERMOSTAT PER MANUFACTURER'S IOM. THERE IS NO INTERLOCKING OR MONITORING BY WAY OF THE S.E.C. CFA-500 PANEL. SEE WIRING DIAGRAMS ON M-501.
10. RUSKIN MDRS25 MVD W/LOCKING QUADRANT HANDLE.
11. 10X10 EXHAUST DUCT DOWN.
12. ROUTE DUCT WITHIN STRUCTURE.
13. SA/RA GRILLE REQUIRES PRICE AMF SURFACE MOUNT ADAPTER FRAME.
14. YOUNG REGULATOR 14" MODEL 4075LMB24 ROUND ZONE DAMPER WITH MODEL T-720A AUTOMATIC CHANGEOVER THERMOSTAT. MOUNT T'STAT AT 4'-0" AFF. POWER OPEN/CLOSE/MODULATING. ADJUST MECHANICAL LIMIT FOR 300 CFM MINIMUM AIRFLOW. ADJUST MAXIMUM LIMIT TO FULLY OPEN POSITION. INITIAL BALANCE TO BE DONE WITH VAV AT THE FULL OPEN POSITION. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE ZONE DAMPER. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE ZONE DAMPER DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AND AVAILABILITY. ZONE DAMPERS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
15. YOUNG REGULATOR FIELD INSTALLED CHANGE OVER SENSOR.
16. CONTRACTOR TO CUT PLENUM CURB OPENING FOR SUPPLY AND RETURN DUCT DROP. CUT OPENING SAME SIZE AS DUCT SHOWN ON MECHANICAL PLAN. FOR SUPPLY DUCTS, PROVIDE ALL ELBOWS WITH TURNING VANES. REFER TO STRUCTURAL DRAWINGS FOR EXACT LOCATION OF DUCT DROPS.
17. 60X18 PLENUM CURB CUT TRANSITION TO 96X18 BELOW ROOF DECK.

LEGEND

A-12-400	TYPE - NECK SIZE - CFM	EF#1	EXHAUST FAN #1 (TYP.)
	SPIN-IN FITTING WITH MANUAL BALANCING DAMPER, WITHOUT SCOOP	AC#1	AIR CONDITIONING UNIT #1 (TYP.)
	SPIN-IN HARD⌀ FLEXIBLE⌀ DIFFUSER		RETURN/EXHAUST (TYP.)
S	REMOTE TEMPERATURE SENSOR		SUPPLY DIFFUSER, SQ FACE (TYP.)
H	HUMIDITY SENSOR	1	PLAN NOTE REFERENCE
SD	SMOKE DETECTOR		MANUAL VOLUME DAMPER
12x18	DUCT SIZE (reverse for elevation views) 1ST NUMBER - HORIZONTAL DIMENSION 2ND NUMBER - VERTICAL DIMENSION		DIRECTION OF THROW ON DIFFUSER
			CLOSED AIR PATTERN DEFLECTOR
SW	AIR DOOR SWITCH	GIH	GAS INFRARED HEATER (TYP.)
EC	ELECTRICAL CONTRACTOR	B/G	BELOW GRADE
MC	MECHANICAL CONTRACTOR	T	THERMOSTAT

AIR BALANCE SCHEDULE

Mark	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	BUILDING POSITIVE PRESSURE
AC#1	9500	8050	1450		
AC#2	5600	4325	1275		
AC#3	6400	4375	2025		
EF#1				1912	
EF#2				1402	
EF#3				375	
	21500	16750	4750	3689	1061

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08/31/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE ALL
RELEASE: v2.18.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	03/29/2022	DESIGN NOTES
3	07/22/22	DESIGN NOTES

CONSTRUCTION

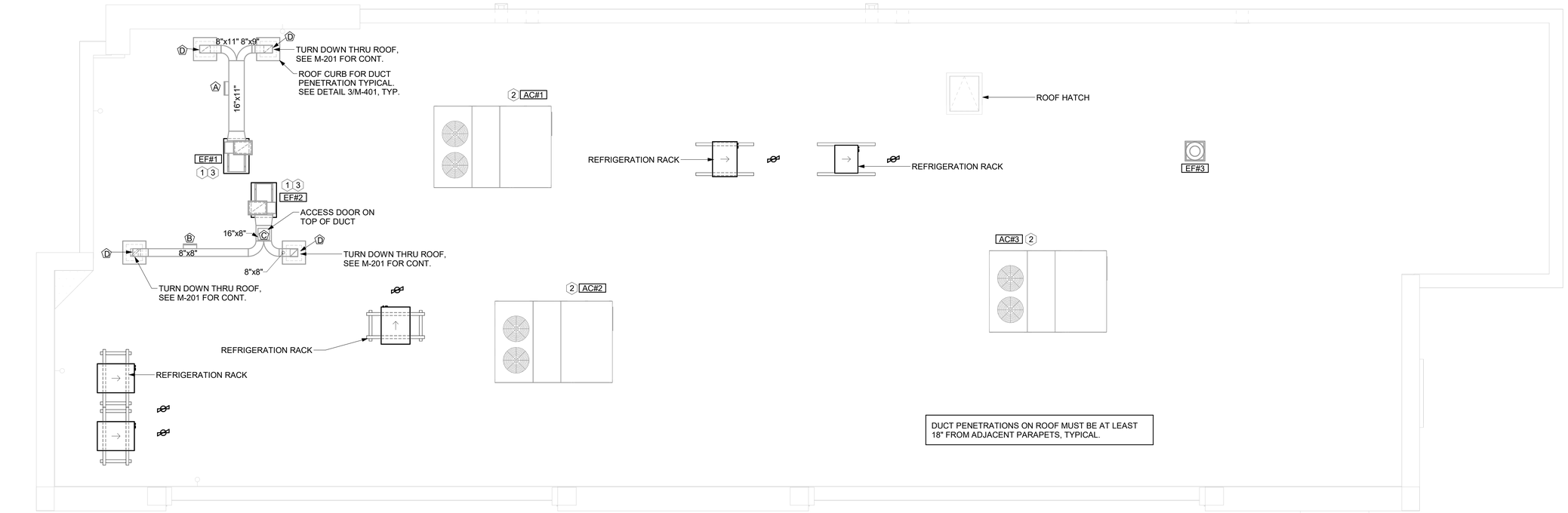
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SHEET
MECHANICAL FLOOR PLAN

SHEET NUMBER
M-201

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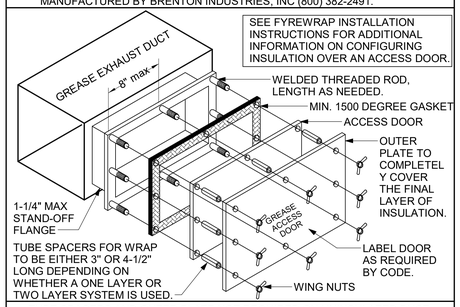
1 MECHANICAL ROOF PLAN

1/4" = 1'-0"

GREASE ACCESS DOOR SCHEDULE

MARK	OPENING SIZE	DOOR SIZE	REMARKS
A	9H X 14W	11H X 16W	1
B	5.5H X 14W	7.5H X 16W	1
C	12H X 12W	14H X 14W	1
D	6H X 14W	8H X 16W	1

1. ACCESS DOORs SHALL BE U.L. 1978 LISTED OR FIELD FABRICATED, REQUIRE NO TOOLS FOR REMOVAL AND MEET THE REQUIREMENTS OF THE CURRENT EDITION OF THE IMC. ACCESS DOOR ASSEMBLY SHALL BE WELDED IN PLACE TO THE GREASE EXHAUST DUCT AND THE ACCESS DOOR SHALL BE SECURED WITH THUMB SCREWS. ACCESS DOORS SHALL BE SEALED WITH A MINIMUM 1500 DEGREE GASKET MATERIAL EQUIVALENT TO THAT MANUFACTURED BY BRENTON INDUSTRIES, INC (800) 382-2491.



TUBE SPACERS AND OUTER PLATE NOT REQUIRED ON UNINSULATED DUCT.

SHEET NOTES

1. ALL DUCTWORK AND UNFINISHED METAL ON ROOF EXCEPT STAINLESS SHALL BE PREPARED WITH TWO COATS OF SHERWIN WILLIAMS B66-200 SERIES DTM WHITE ACRYLIC SEMI-GLOSS INDUSTRIAL MAINTENANCE COATING. DEGREASE AND PRIME BARE METAL SURFACE WITH ONE COAT OF SHERWIN WILLIAMS DTM ACRYLIC PRIMER PRIOR TO PAINTING.
2. AT EACH PIECE OF ROOF EQUIPMENT, PROVIDE A PLASTIC ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. THE LABEL IS TO HAVE A SELF ADHESIVE BACKING.
3. MAINTAIN 18" CLEARANCE FROM GREASE EXHAUST DUCTWORK ABOVE ROOF TO ANY COMBUSTIBLE CONSTRUCTION INCLUDING PARAPET WALLS.

⬡ KEY NOTES

1 FABRICATE DISCHARGE AIR NOZZLE. VERIFY EXHAUST TERMINATION IS A MINIMUM 10-0" FROM PARAPETS AND OUTSIDE AIR INTAKES. SEE DETAIL 3/M-401.

2 MECHANICAL CONTRACTOR TO SEE ARCHITECTURAL ROOF PLAN FOR NOTES REGARDING LEVELING FRAMES FOR RTUS. COORDINATE WITH GENERAL CONTRACTOR EXACT LOCATIONS AND SIZE NEEDED.

3 MECHANICAL CONTRACTOR TO VERIFY THAT GREASE EXHAUST DUCT AT ROOF PENETRATION IS 18" FROM ROOF PARAPETS.

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STATE OF NEW JERSEY MARK T. KURZYNSKE NO. GE44646 LICENSED PROFESSIONAL ENGINEER
01/24/22

CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE ALL
RELEASE: v2.18.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #	22008.EH.S
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DATE	01/24/2022
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SHEET
MECHANICAL ROOF PLAN

SHEET NUMBER
M-250

PERMIT

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30-LE-04591-M-250-MECHANICAL ROOF PLAN

GREASE EXHAUST DUCT CLEARANCE NOTE:
CLEARANCES ABOVE CEILING ARE TIGHT. MECHANICAL CONTRACTOR TO FIELD VERIFY EXACT ROUTING AND CLEARANCES PRIOR TO FABRICATING GREASE EXHAUST DUCT.

CLEANOUT DOOR NOTE:
DUCT WRAP SHALL BE APPLIED TO THE CLEANOUT DOOR PER THE WRAP MFR'S INSTALLATION INSTRUCTIONS, NO EXCEPTIONS. ALSO, THE CLEANOUT DOOR MUST BE REMOVABLE WITHOUT TOOLS AND MUST BE CLEARLY AND PERMANENTLY LABELED.

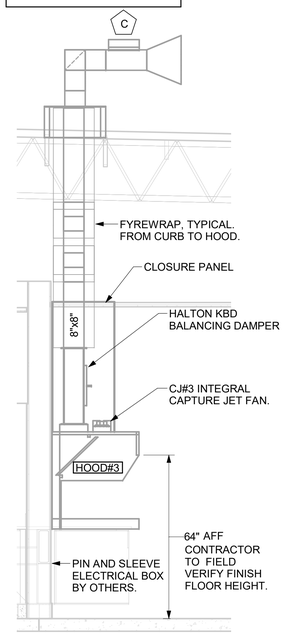
HOOD SCHEDULE

MARK	EXHAUST CFM	SP @ TAB PORT	CAPTURE JET CFM & S.P.	TYPE	COLLAR SIZE	WIDTH	DEPTH	HEIGHT	MANUFACTURER	MODEL	REMARKS
HOOD#1L	1080	0.13"	72 @ 0.30"	BACKSHELF	11"X8"	96"	37"	38"	HALTON	KVL-2	1
HOOD#1R	832	0.12"	55 @ 0.30"	BACKSHELF	9"X8"	74"	37"	38"	HALTON	KVL-2	1
HOOD#2	701	0.30"	30 @ 0.29"	BACKSHELF	8"X8"	45"	34"	38"	HALTON	KVL-C	1
HOOD#3	701	0.30"	30 @ 0.29"	BACKSHELF	8"x8"	42"	34"	38"	HALTON	KVL-C	1
NOTES	DIMENSIONS OF HOODS INCLUDE BACK AND SIDE SPACERS (HEIGHT DOES NOT INCLUDE CLOSURE PANELS).										
REMARKS	1. REFER TO HOOD SHOP DRAWINGS FOR HOOD CONSTRUCTION AND OPTIONS. HOOD SHOP DRAWINGS ARE INCLUDED FOR REFERENCE ON SHEET MH-101.										

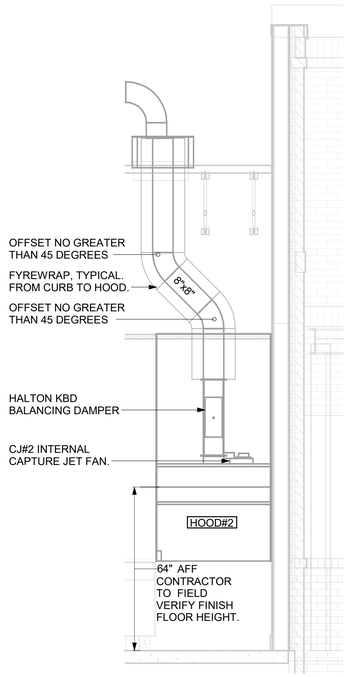
KITCHEN HOOD SYSTEMS NOTES

1. CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT WITH HALTON CO. FOR THE HOODS. CHICK-FIL-A WILL PURCHASE AND PROVIDE THE HOODS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE HOODS. CONTACT HALTON CO. AT 270-237-5600 FOR MORE INFO.
2. THE FIRE SUPPRESSION SYSTEM SHALL CONSIST OF A COMPLETE WET ANSUL SYSTEM FURNISHED BY HALTON. THE HOOD SHALL BE FURNISHED PRE-PIPED BY HALTON.
3. THE R-102 ANSUL FIRE SUPPRESSION SYSTEM EXTERNAL TO THE HOODS SHALL BE INSTALLED IN ACCORDANCE WITH HOOD MANUFACTURER'S SHOP DRAWINGS BY AN AUTHORIZED ANSUL SYSTEM INSTALLER SELECTED AND HIRED BY HALTON. COST FOR ANSUL INSTALLATION INCLUDED IN PRICE OF HOODS TO CFA.
4. HOOD EXHAUST DUCTWORK SHALL BE 16 GA. BLACK STEEL WITH CONTINUOUS LIQUID TIGHT WELD OF JOINTS & SEAMS.
5. TURNS IN GREASE EXHAUST DUCTWORK SHALL BE LONG RADIUS TYPE, WITH A CENTERLINE RADIUS R=3W/2, UNLESS OTHERWISE NOTED. NO MITERED FITTINGS ALLOWED.
6. ALL STAINLESS STEEL CLOSURE PANELS SHALL BE SUPPLIED BY HOOD MANUFACTURER AND INSTALLED BY THE MECHANICAL CONTRACTOR ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
7. SLOPE ALL GREASE EXHAUST DUCT BACK TO HOOD AT 1/4" PER FOOT OF RUN.
8. WRAP NEW GREASE DUCT WITH UNIFRAX FYREWRAP. INSULATION ON ACCESS DOORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS. UNIFRAX FYREWRAP PRODUCT USED SHALL MEET LOCAL CODE REQUIREMENTS.
9. SUPPORT ALL HOODS WITH THREADED ROD AT EACH FACTORY SUPPORT POINT. EACH SUPPORT POINT MUST SUPPORT THE HOOD WEIGHT EQUALLY. ATTACH TO STRUCTURE AS DETAILED ON STRUCTURAL DRAWINGS. ATTACH HOOD TO WALL AT 16" INTERVALS ALONG FULL LENGTH OF HOOD ON TOP AND BOTTOM. ATTACHMENT TO WALL REQUIRES FIELD DRILLING OF SUPPORT ANGLE AT BACK OF HOODS. EACH WALL ATTACHMENT POINT MUST OCCUR AT A WALL STUD. ATTACHMENT HARDWARE TO BE #12-24 HEX HEAD SHEET METAL SCREW EQUAL TO TEXTRON SDS EDT265, LENGTH AS REQUIRED TO FULLY PENETRATE THE STUD.
10. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL SUNCOAST H.E.S. SYSTEM FOR ALL HOODS. SEE HOOD FAN/EQUIPMENT INTERLOCK WIRING DIAGRAM ON M-501 FOR MORE INFORMATION.

SET RIGHT SIDE OF HOOD#3 FLUSH WITH FINISHED EDGE OF PASS THRU OPENING.

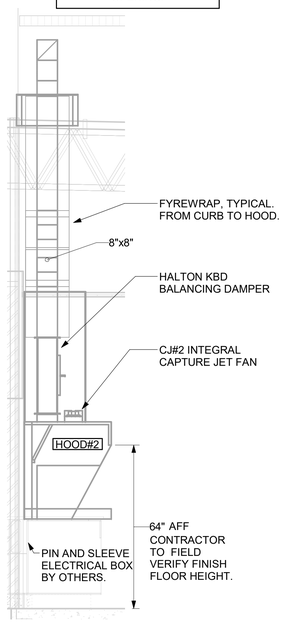


7 HOOD ELEVATION - HOOD#3
NOT TO SCALE

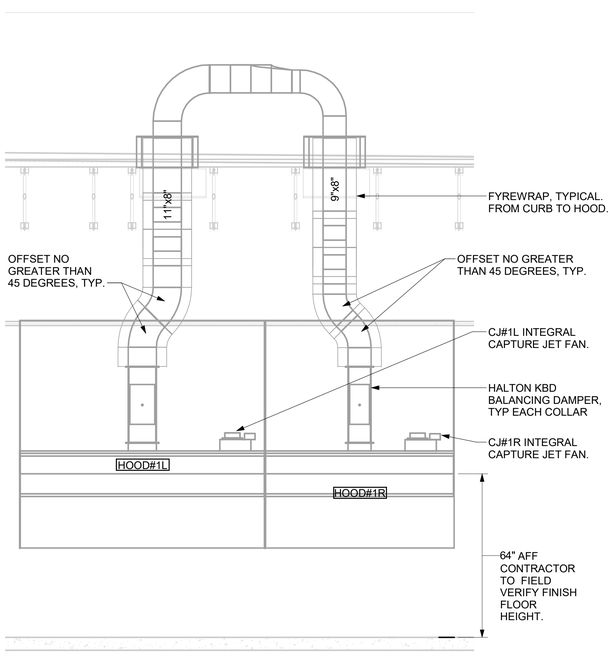


6 HOOD ELEVATION - HOOD#2 - FRONT
NOT TO SCALE

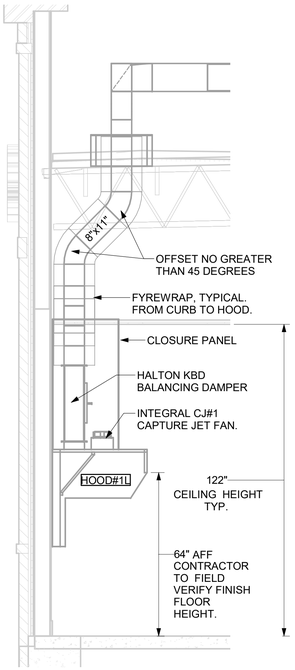
SET LEFT SIDE OF HOOD#2 FLUSH WITH FINISHED EDGE OF PASS THRU OPENING.



5 HOOD ELEVATION - HOOD#2 - SIDE
NOT TO SCALE

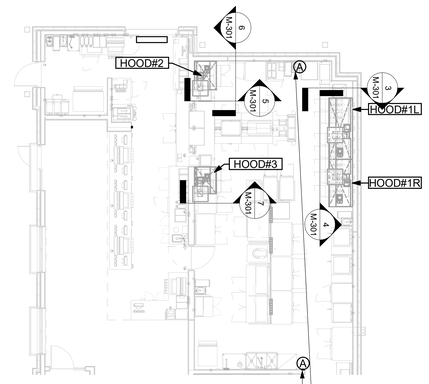


4 HOOD ELEVATION - HOOD#1 - FRONT
NONE



3 HOOD ELEVATION - HOOD#1 - SIDE
NOT TO SCALE

NOTE:
SEE ARCHITECTURAL PLANS FOR HOOD LOCATIONS.



ANSUL PULL STATION SERVING HOOD#1. LOCATE ANSUL PULL STATION BETWEEN 42" AND 48" AFF. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT ELEVATIONS. J-BOX AND CONDUIT ARE BY ELECTRICAL. PROVIDE RED BAKELITE LABEL WITH 1/4" HIGH WHITE LETTERS INDICATING THE HOODS SERVED, I.E.: "MAIN COOKLINE HOOD".

ANSUL PULL STATION SERVING BOTH HOOD#2 AND HOOD#3 ADJACENT TO HANDSINK. LOCATE ANSUL PULL STATION BETWEEN 42" AND 48" AFF. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT ELEVATIONS. J-BOX AND CONDUIT ARE BY ELECTRICAL. PROVIDE RED BAKELITE LABEL WITH 1/4" HIGH WHITE LETTERS INDICATING THE HOODS SERVED, I.E.: "PASS THRU HOODS".

1 HOOD LAYOUT
1/8" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

Kurzynske & Associates
2705 Lebanon Pike - Suite One
Nashville, Tennessee 37214
Telephone: (615) 255-5203

MARK T. KURZYNSKE
NEW JERSEY LICENSE # GE44646
STATE OF NEW JERSEY MARK T. KURZYNSKE NO. GE44646 LICENSED PROFESSIONAL ENGINEER
01/24/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE ALL
RELEASE: v2.18.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

PERMIT

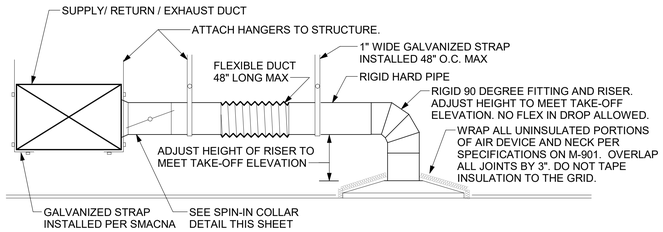
CONSULTANT PROJECT #	22008.EH.S
PRINTED FOR	PERMIT
DATE	01/24/2022
DRAWN BY	JAL

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SHEET
HOOD DETAILS AND SCHEDULES

SHEET NUMBER
M-301

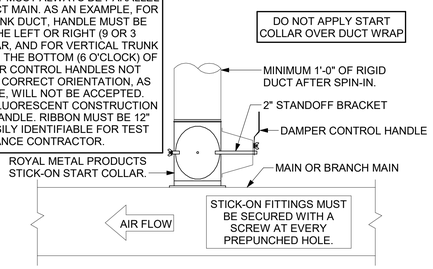
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1/24/2022 11:15:44 AM
30-LE-04591-M-301-HOOD DETAILS AND SCHEDULES



1 SAG/RAG/GRILLE TAKE-OFF
NOT TO SCALE

CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE ROYAL METAL PRODUCTS START COLLARS FOR BOTH WITH AND WITHOUT A MANUAL BALANCING DAMPER. THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE ROYAL METAL PRODUCTS START COLLARS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. ROYAL METAL PRODUCTS START COLLARS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

DAMPER CONTROL HANDLE MUST BE EXPOSED, AND DAMPER SHAFT MUST ALWAYS BE PARALLEL TO AIRFLOW IN DUCT MAIN. AS AN EXAMPLE, FOR HORIZONTAL TRUNK DUCT, HANDLE MUST BE LOCATED ON THE LEFT OR RIGHT (9 OR 3 O'CLOCK) OF COLLAR, AND FOR VERTICAL TRUNK DUCT, LOCATED ON THE BOTTOM (6 O'CLOCK) OF COLLAR. DAMPER CONTROL HANDLES NOT INSTALLED IN THE CORRECT ORIENTATION, AS SPECIFIED ABOVE, WILL NOT BE ACCEPTED. ATTACH YELLOW FLUORESCENT CONSTRUCTION RIBBON TO THE HANDLE. RIBBON MUST BE 12" LONG AND BE EASILY IDENTIFIABLE FOR TEST AND BALANCE CONTRACTOR.



2 START COLLAR
NOT TO SCALE

GAS FIRED ROOFTOP UNIT SCHEDULE

MARK	TOTAL COOLING MBH	SENSIBLE COOLING MBH	HEATING INPUT MBH	HEATING OUTPUT MBH	STAGES	SUPPLY	O.A.	HP	ESP	MODEL R-410A	MFGR	REMARKS
AC#1	281.9	222.7	400	320	2	9500	1450	7.5	0.80	YHD300G3RHD	TRANE	1-13
AC#2	181.3	139.0	350	280	2	5600	1275	5.0	0.65	YHD210G3RHD	TRANE	1-12
AC#3	240.5	156.4	400	320	2	6400	2025	5.0	0.65	YHD240G3RHD	TRANE	1-12

NOTES
- COOLING CAPACITIES ARE GROSS, BASED ON ENTERING: 80FDB/67FWB, OUTDOOR: 95FDB, AND 400 CFM PER TON.
- CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH TRANE. CONTACT TRANE NATIONAL ACCOUNTS AT 630-400-4285 FOR PRICING, ORDERING AND AVAILABILITY.
- MECHANICAL CONTRACTOR TO VERIFY TRANE SUBMITTAL WITH CONSTRUCTION DOCUMENTS.

REMARKS
1. PROVIDE DIFFERENTIAL ENTHALPY ECONOMIZER WITH FIELD INSTALLED POWER EXHAUST.
2. PROVIDE 14" CURBS PLUS PLENUM CURB. CONTRACTOR TO FIELD LOCATE AND CUT OPENINGS IN BOTTOM OF CURB FOR SUPPLY AND RETURN DROPS. REFER TO SHEET M-201 AND STRUCTURAL DRAWINGS FOR LOCATION AND SIZE OF OPENINGS.
3. PROVIDE FACTORY INSTALLED AND UNIT POWERED 115V GFI SERVICE OUTLET.
4. PROVIDE FACTORY INSTALLED RETURN SIDE SMOKE DETECTOR.
5. PROVIDE FACTORY INSTALLED NON-FUSED DISCONNECT.
6. PROVIDE 2" MERV 8 THROW AWAY FILTERS.
7. PROVIDE HINGED PANELS FOR FILTER ACCESS, FAN MOTOR ACCESS, COMPRESSOR ACCESS AND CONTROL COMPARTMENT ACCESS.
8. ADJUST GAS MANIFOLD PRESSURE AT LOCATIONS WHERE ELEVATION EXCEEDS 2000' ABOVE SEA LEVEL AS RECOMMENDED BY MANUFACTURER.
9. PROVIDE FACTORY COIL HAIL GUARD, FIELD INSTALLED.
10. PROVIDE FACTORY INSTALLED CONDENSATE PAN DRAIN OVERFLOW SWITCH.
11. PROVIDE FACTORY HOT GAS REHEAT OPTION AND REMOTE HUMIDITY SENSOR (BAYSENS036A).
12. TRANE TO PROVIDE FRESH AIR TEMPERING KIT FOR FIELD INSTALL BY CONTRACTOR. REFER TO DETAIL ON SHEET M-502.
13. PROVIDE WITH HIGH STATIC DRIVE KIT.

RECIRCULATING FAN SCHEDULE

Mark	Fan CFM	Fan ESP	Fan RPM	Fan HP	Area Served	Model	Manufacturer	Fan Remarks
RF-1	450	0.30	1144	58W	DTT CLOSET	GCVF-500	LOREN COOK	1, 2, 3, 4

REMARKS
1. PROVIDE NEMA 1 PREWIRED DISCONNECT.
2. INTEGRAL POTENTIOMETER ON FAN MOTOR. SET TO FULL SPEED.
3. PROVIDE AIR BALANCE KIT AND SET TO AUTOSCALE.
4. PROVIDE THERMOSTAT / TEMPERATURE CONTROLLER. SET TO 76°F.

BROMIC ELECTRIC HEATER SCHEDULE

MARK	KW	FRAME LENGTH	FRAME WIDTH	FRAME DEPTH	MOUNTING TYPE	MODEL	MANUFACTURER
EH#1	6.0	56"	8.5"	3.5"	BRACKET	BH0420035	Bromic

NOTES
- CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH BROMIC COMPANY FOR THE BROMIC ELECTRIC HEATER PACKAGE. THE MECHANICAL CONTRACTOR SHALL PURCHASE HEATERS DIRECTLY FROM BROMIC COMPANY. CONTACT MR. BLAKE RUSSIE AT 858-381-4850, FOR PRICING AND AVAILABILITY. BROMIC HEATERS NOT PURCHASED THRU BROMIC COMPANY WILL NOT BE ACCEPTED.

REMARKS
1. PROVIDE WITH BLACK HIGH TEMPERATURE COATING.
2. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND.
3. PROVIDE WITH MOUNTING BRACKETS PER MANUFACTURER'S RECOMMENDATIONS.

EXHAUST FAN SCHEDULE

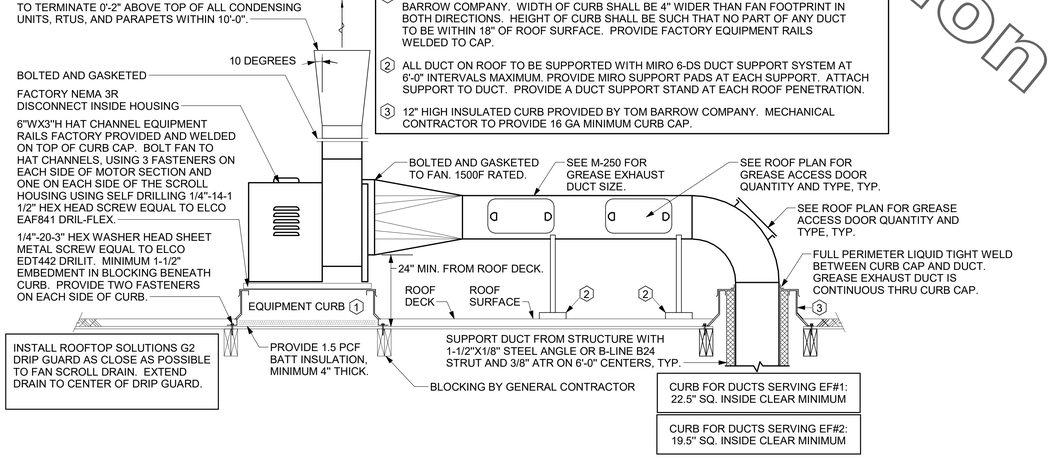
MARK	Fan CFM	ESP	RPM	Tip Speed	HP	Area Served	MODEL	MANUFACTURER	REMARKS
EF#1	1912	0.75	1331	5226	3/4	HOOD#1	150 CPS	LOREN COOK	1,2,3,4,5,6,7,8,9,10,11,17
EF#2	1402	0.95	1199	4708	3/4	HOOD#2 & HOOD#3	150 CPS	LOREN COOK	1,2,3,4,5,6,7,8,9,10,11,17
EF#3	375	0.375	1386	3311	1/8	RESTROOMS	ACED-90C15DH	LOREN COOK	3,11,12,13,14,15,16

NOTES
- GREASE EXHAUST FAN RPM BASED ON 80 DEGREE F AIR AT 1000 FEET ABOVE SEA LEVEL.
- GREASE EXHAUST FANS TO BE U.L. 762 LISTED.
- CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE FAN/CURB PACKAGE. THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FAN/CURB PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. FANS AND CURBS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

REMARKS
1. UPBLAST, ARRANGEMENT 10, CCW ROTATION. SEE PLANS TO CONFIRM CONFIGURATION.
2. PROVIDE FACTORY STEEL FAN WHEEL.
3. PROVIDE FACTORY INSTALLED, PRE-WIRED, NEMA 3 NON-FUSED DISCONNECT.
4. PROVIDE FACTORY STEEL INLET FLANGE AND INLET COMPANION FLANGE.
5. PROVIDE AND INSTALL ROOFTOP SOLUTIONS G2 DRIP GUARD. MECHANICAL CONTRACTOR TO CONTACT ROOFTOP SOLUTIONS AT 800-913-7034.
6. PROVIDE FACTORY WEATHER HOUSING W/ HINGED ACCESS DOOR.
7. PROVIDE FACTORY DRAIN CONNECTION.
8. PROVIDE FACTORY BOLTED ACCESS DOOR ON SCROLL.
9. PROVIDE FACTORY INSTALLED BELT DRIVE WITH ADJUSTABLE MOTOR SHEAVE AND SPARE BELT..
10. PROVIDE FACTORY STEEL OUTLET COMPANION FLANGE.
11. INTEGRAL THERMAL OVERLOAD WITH AUTOMATIC RESET.
12. PROVIDE BIRDSCREEN.
13. BACKDRAFT DAMPER IN DUCT BY MECHANICAL CONTRACTOR AS SHOWN ON 4/M401.
14. STARTER BY ELECTRICAL CONTRACTOR. INTERLOCK WITH LIGHTS BY ELECTRICAL CONTRACTOR.
15. PROVIDE 12" HIGH CURB.
16. PROVIDE FACTORY INSTALLED AND WIRED SPEED CONTROLLER.
17. UTILITY SET FAN CURB AND ASSOCIATED EXHAUST DUCT CURB PROVIDED BY TOM BARROW COMPANY.

ALL DUCTWORK AND UNFINISHED METAL ON ROOF EXCEPT STAINLESS SHALL BE PREPARED WITH TWO COATS OF SHERWIN WILLIAMS B66-200 SERIES DTM WHITE ACRYLIC SEMI-GLOSS INDUSTRIAL MAINTENANCE COATING. DEGREASE AND PRIME BARE METAL SURFACE WITH ONE COAT OF SHERWIN WILLIAMS DTM ACRYLIC PRIMER PRIOR TO PAINTING.

KEYED NOTES:
1. EQUIPMENT CURB WITH REINFORCED BASE AND STEEL CURB CAP PROVIDED BY TOM BARROW COMPANY. WIDTH OF CURB SHALL BE 4" WIDER THAN FAN FOOTPRINT IN BOTH DIRECTIONS. HEIGHT OF CURB SHALL BE SUCH THAT NO PART OF ANY DUCT TO BE WITHIN 18" OF ROOF SURFACE. PROVIDE FACTORY EQUIPMENT RAILS WELDED TO CAP.
2. ALL DUCT ON ROOF TO BE SUPPORTED WITH MIRO 6-DS DUCT SUPPORT SYSTEM AT 6'-0" INTERVALS MAXIMUM. PROVIDE MIRO SUPPORT PADS AT EACH SUPPORT. ATTACH SUPPORT TO DUCT. PROVIDE A DUCT SUPPORT STAND AT EACH ROOF PENETRATION.
3. 12" HIGH INSULATED CURB PROVIDED BY TOM BARROW COMPANY. MECHANICAL CONTRACTOR TO PROVIDE 16 GA MINIMUM CURB CAP.



3 KITCHEN HOOD EXHAUST FANS
NOT TO SCALE

AIR DOOR SCHEDULE

MARK	CFM	VELOCITY	HEATING CAP	HP	AREA SERVED	MODEL	MANUFACTURER	REMARKS
AD#1	1765	2670 FPM	10 kW	3/4 HP	DRIVE THRU	CHA-1-48E	Powered Aire	1,2,3,5
AD#2	3867	4220 FPM	N/A	3/4 HP	REAR DOOR	RBT-1-48	Powered Aire	4

NOTES
- CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE AIR DOORS. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

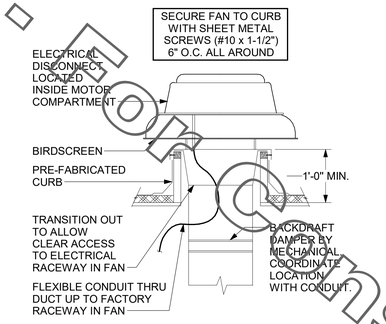
REMARKS
1. FACTORY PROVIDED, WIRED, AND UNIT MOUNTED SPEED CONTROLLER LOCATED ABOVE CEILING.
2. FACTORY WIRED DISCONNECT.
3. FACTORY PROVIDED, FIELD INSTALLED BY MC, REMOTE WALL SWITCHES FOR HEATING ON/OFF AND FAN ON/AUTO SWITCH. SEE DETAIL, AIR CURTAIN WIRING DIAGRAM.
4. FACTORY PROVIDED MAGNETIC DOOR CONTACT WITH FACTORY INSTALLED LOW VOLTAGE CONTROLS LOCATED IN AIR DOOR CABINET.
5. PROVIDE WITH A DIVERTER BOX. PROVIDE WITH MOUNTING BRACKETS PER MANUFACTURER'S RECOMMENDATIONS.

AIR DEVICE SCHEDULE

MARK	DESCRIPTION	LOCATION	NECK SIZE	FACE SIZE	FRAME TYPE	REMARKS
A	PRICE MODEL APDC ALUMINUM SUPPLY AIR DIFFUSER WITH INDIVIDUALLY ADJUSTABLE CURVED AIR PATTERN CONTROLLERS.	DINING/ KITCHEN	VARIES	24"x24"	LAY-IN	1,7
C	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	ENTRY	14"x14"	19"x19"	BEVELLED	1,3,5,6
F	PRICE MODEL 80 EGGCRATE RETURN AIR GRILLE WITH REMOVABLE WHITE CORE, FACTORY FLAT BLACK BACKPAN AND ROUND NECK.	DINING/ OFFICE/ KITCHEN	VARIES	24"x24"	LAY-IN	1,7,8
J	PRICE MODEL SMCD STEEL SUPPLY AIR DIFFUSER FIELD ADJUSTABLE AIR PATTERN CONTROLLERS.	RESTROOMS	10"x10"	15"x15"	BEVELLED	1,2,3,5,6
K	PRICE MODEL APDDR ALUMINUM PERFORATED FACE RETURN AIR GRILLE.	RESTROOMS/ ENTRY	14"x14"	16"x16"	SURFACE	1,4,5,6

NOTES
- CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE AIR DEVICES. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

REMARKS
1. STANDARD OFF WHITE FINISH.
2. PROVIDE MODEL VCS3 NECK DAMPER.
3. SEE DRAWING M-201 FOR THROW.
4. PROVIDE MODEL VCR7 NECK DAMPER ON GRILLES IN RESTROOMS SERVING EXHAUST FAN.
5. PROVIDE BACKPAN. MC TO SEAL JOINTS WITH MASTIC AND INSULATE EXTERNALLY.
6. FIELD INSULATE BACKPAN AS SHOWN ON DETAIL 1/M-401.
7. FACTORY INSULATED R-6 BACKPAN.
8. PRICE AMF SURFACE MOUNT ADAPTER FRAME. SEE 1/M-201 FOR LOCATION AND QUANTITY.



4 RESTROOM EXHAUST FAN
NOT TO SCALE

GAS FIRED INFRARED HEATER SCHEDULE

MARK	INPUT (MBH)	FRAME LENGTH	FRAME WIDTH	FRAME DEPTH	MOUNTING TYPE	MODEL	MANUFACTURER
GIH	50	48-1/4"	13"	10"	Bracket	2352-NG	Schwank

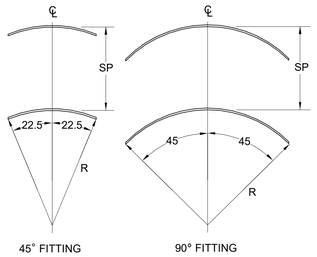
NOTES
- CONFIRM HEATER QUANTITY WITH CANOPY SHOP DRAWINGS.
- CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH TOM BARROW COMPANY FOR THE GAS FIRED INFRARED HEATERS. THE MECHANICAL CONTRACTOR SHALL PURCHASE THE HEATER PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010, FOR PRICING AND AVAILABILITY. HEATERS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

REMARKS
1. STEEL BURNER WITH CERAMIC BURNER TILES.
2. STAINLESS STEEL LENS WITH BLACK EMISSIVE COATING.
3. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO CANOPY DECK, FACING FORWARD, 12" LATERALLY FROM THE LONG SIDE OF THE HEATER.
4. STAINLESS STEEL HEAT SHIELDS PROVIDED BY TOM BARROW COMPANY.

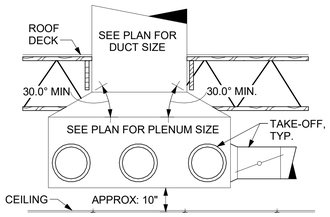
TURNING VANE SCHEDULE

R	SP	GA
2"	1.5"	24

1. NO TRAILING EDGE.
2. SINGLE THICKNESS CONSTRUCTION.

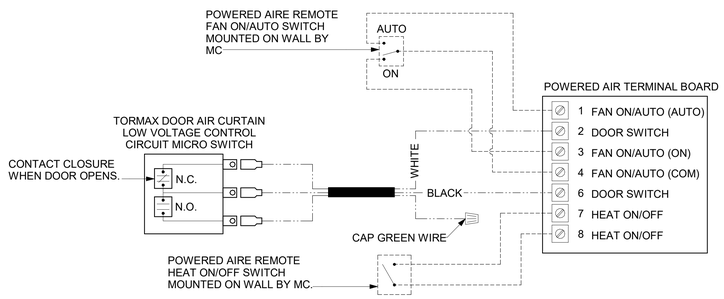


5 TURNING VANES
NOT TO SCALE



6 RETURN DROP GEOMETRY
NOT TO SCALE

LEGEND
- 18 AWG MIN LOW VOLTAGE WIRING BY MC, U.N.O.
- 22 AWG LOW VOLTAGE WIRING PROVIDED BY TORMAX. WIRING INSTALLED BY MC.



7 AIR CURTAIN WIRING DIAGRAM
NOT TO SCALE

C - For Construction - 4/6/2022

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

Kurzynske & Associates
2705 Lebanon Pike - Suite One
Nashville, Tennessee 37214
Telephone: (615) 255-5203

MARK T. KURZYNSKE
NEW JERSEY LICENSE # GE44646
STATE OF NEW JERSEY · MARK THOMAS KURZYNSKE · NO. GE44646 · LICENSED PROFESSIONAL ENGINEER
04/06/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE ALL
RELEASE: v2.18.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	03/29/2022	DESIGN NOTES

CONSTRUCTION

CONSULTANT PROJECT # 22008.EH.S
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SHEET: HVAC DETAILS AND SCHEDULES
SHEET NUMBER: **M-401**

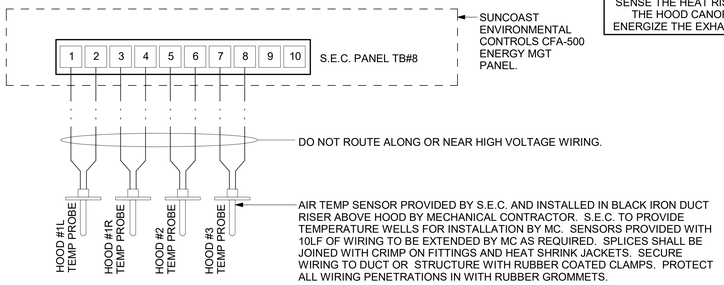
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30-LE-04591-M-401-HVAC DETAILS AND SCHEDULES

LEGEND	
S.E.C.	SUNCOAST ENVIRONMENTAL CONTROLS CFA-500 ENERGY MGT PANEL
M.C.	MECHANICAL CONTRACTOR
— · · —	18 AWG MIN UNSHIELDED LOW VOLTAGE WIRING BY MC, U.N.O.

GENERAL NOTES

1. THE SUNCOAST H.E.S. SYSTEM HAS BEEN INTEGRATED INTO THE SUNCOAST ENVIRONMENTAL CONTROLS CFA-500 ENERGY MGT PANEL.

S.E.C. H.E.S. OPERATION
IN THE EVENT THAT ANY COOKING EQUIPMENT ITEM BENEATH ANY HOOD IS STARTED WITHOUT THE 'STORE SWITCH' BEING IN THE 'OCCUPIED' POSITION, THE H.E.S. CONTROLLER WILL SENSE THE HEAT RISE WITHIN THE HOOD CANOPY AND ENERGIZE THE EXHAUST FANS.

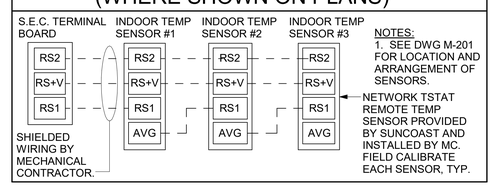


5 HOOD FAN/EQUIPMENT INTERLOCK - 3 Hood (4 Collars) - CFA500 Integrated

1/4" = 1'-0"

PROVIDE A PROFESSIONALLY LAMINATED COPY OF THESE DETAILS TO BE INSTALLED INSIDE THE ROOFTOP UNIT CONTROL CABINENT. USE A SETON CHART FRAME STYLE #68624, TELEPHONE NUMBER 800-243-6624, FOR MOUNTING THE DETAIL. ATTACH THE FRAME TO THE INTERIOR OF THE UNIT IN PLAIN AND EASY VIEW OF THE CONTROLS SECTION. CONTACT ENGINEER OF RECORD FOR A REPRODUCIBLE COPY OF THE DETAIL.

AC#3 AVERAGING SENSORS (WHERE SHOWN ON PLANS)



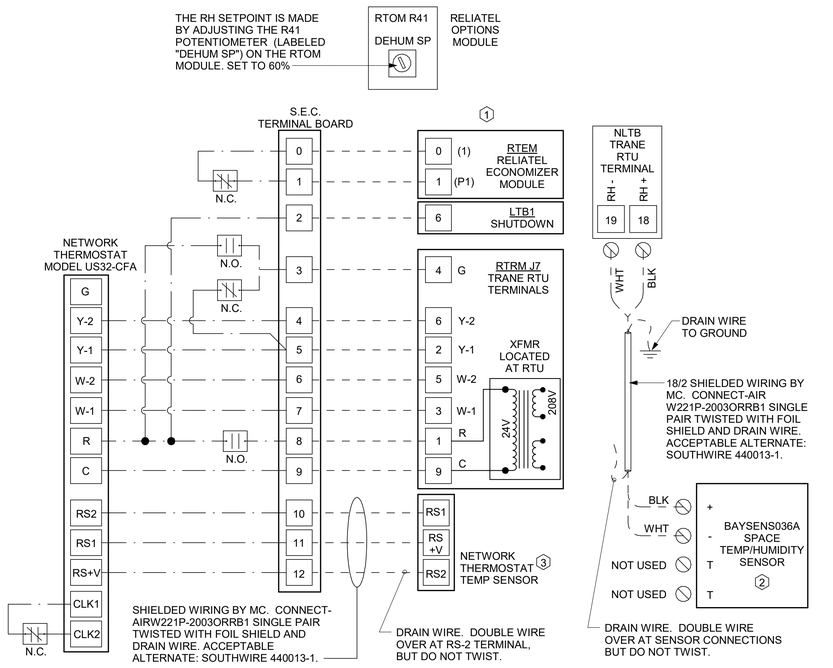
NOTES:

1. MECHANICAL CONTRACTOR SHALL MAKE PLASTIC LAMINATE OF THIS DETAIL AND INSTALL PERMANENTLY ON INSIDE DOOR OF ROOFTOP UNIT CONTROL COMPARTMENT.
2. SEE DETAILS THIS SHEET FOR SMOKE DETECTOR AND ANNUNICIATOR WIRING.
3. SET ALL THERMOSTATS FOR AUTO CHANGEOVER.
4. PROVIDE PLASTIC ENGRAVED LABEL AT ALL NEW SENSORS WITH 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND, I.E. "AC#2 HUMIDITY SENSOR" OR "AC#2 TEMP SENSOR". PLACE LABELS ON WALL ADJACENT TO DEVICE, DO NOT APPLY DIRECTLY TO DEVICE.

KEYED NOTES:

1. LOW VOLTAGE WIRING TO RTU TO BE ROUTED TO UNIT THRU FACTORY WIREWAY.
2. HOT GAS REHEAT UNITS ONLY: WIRING TO HUMIDITY SENSOR TO BE MADE WITH SHIELDED TWISTED PAIR AS SHOWN. TERMINATE SHIELD WIRES AT TB-1, LEAVE OPEN AT SENSOR.
3. NETWORK TSTAT REMOTE TEMP SENSOR PROVIDED BY SUNCOAST AND INSTALLED BY MC. SENSOR IS INTENDED TO BE SURFACE MOUNTED AND DOES NOT REQUIRE A SINGLE GANG BOX OR CONDUIT. FIELD CALIBRATE EACH SENSOR.

LEGEND	
S.E.C.	SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF TEMP/FAN CONTROL PANEL) LOCATED IN KITCHEN
1	KEY NOTE REFERENCE
MC	MECHANICAL CONTRACTOR
- - - -	18 AWG MIN LOW VOLTAGE WIRING BY MC, U.N.O. USE BELDEN OR SOUTHWIRE SINGLE PAIR TWISTED WITH FOIL SHIELD AND DRAIN WIRE FOR TEMPERATURE SENSORS (NOT HUMIDITY SENSORS).
— · —	LOW VOLTAGE WIRING BY S.E.C.
———	LINE VOLTAGE BY ELECTRICIAN OR S.E.C.



2 ROOFTOP UNIT CONTROL WIRING - TRANE v3

NOT TO SCALE

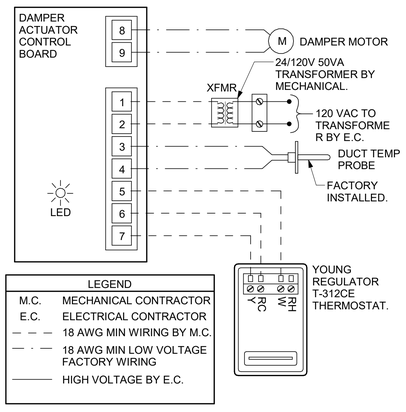
NOTES
1. SEE DWG M-201 FOR COMPONENT MODEL NUMBERS AND ORDERING INFORMATION.
2. 120V POWER FOR TRANSFORMER TO BE NON-SWITCHED AND LIVE 24 HOURS EACH DAY.
3. PROVIDE ALL NECESSARY WIRING AND COMPONENTS TO MAKE CONTROL AND POWER CONNECTIONS TO TRANSFORMER, ZONE DAMPER, AND THERMOSTAT PER MANUFACTURER'S IOM.
4. PROVIDE MYLAR LABEL AT ALL NEW THERMOSTATS WITH 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND, I.E. "PLAY AREA THERMOSTAT". PLACE LABELS ON WALL ADJACENT TO DEVICE. DO NOT APPLY DIRECTLY ON DEVICE.

SEQUENCE OF OPERATION
1. WHEN THE SUPPLY AIR TEMPERATURE IS LESS THAN 72F THE DAMPER WILL MODULATE ON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT.
2. WHEN THE SUPPLY AIR TEMPERATURE IS GREATER THAN 71F THE DAMPER WILL MODULATE ON A FALL IN SPACE TEMPERATURE BELOW THE SETPOINT.

LEGEND	
M.C.	MECHANICAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
- - -	18 AWG MIN WIRING BY M.C.
———	HIGH VOLTAGE BY E.C.

4 VAV DAMPER AND TSTAT - TEAM MEMBER ROOM

NOT TO SCALE



NOTES
1. SEE DWG M-201 FOR COMPONENT MODEL NUMBERS AND ORDERING INFORMATION.
2. 120V POWER FOR TRANSFORMER TO BE NON-SWITCHED AND LIVE 24 HOURS EACH DAY.
3. PROVIDE ALL NECESSARY WIRING AND COMPONENTS TO MAKE CONTROL AND POWER CONNECTIONS TO TRANSFORMER, ZONE DAMPER, AND THERMOSTAT PER MANUFACTURER'S IOM.
4. PROVIDE MYLAR LABEL AT ALL NEW THERMOSTATS WITH 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND, I.E. "OFFICE THERMOSTAT". PLACE LABELS ON WALL ADJACENT TO DEVICE. DO NOT APPLY DIRECTLY ON DEVICE.

SEQUENCE OF OPERATION
1. WHEN THE SUPPLY AIR TEMPERATURE IS LESS THAN 72F THE DAMPER WILL OPEN FULLY ON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT.
2. WHEN THE SUPPLY AIR TEMPERATURE IS GREATER THAN 71F THE DAMPER WILL OPEN FULLY ON A FALL IN SPACE TEMPERATURE BELOW THE SETPOINT.

LEGEND	
M.C.	MECHANICAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
- - -	18 AWG MIN WIRING BY M.C.
- · -	18 AWG MIN LOW VOLTAGE FACTORY WIRING
———	HIGH VOLTAGE BY E.C.

3 VAV DAMPER AND TSTAT - MGRS OFFICE

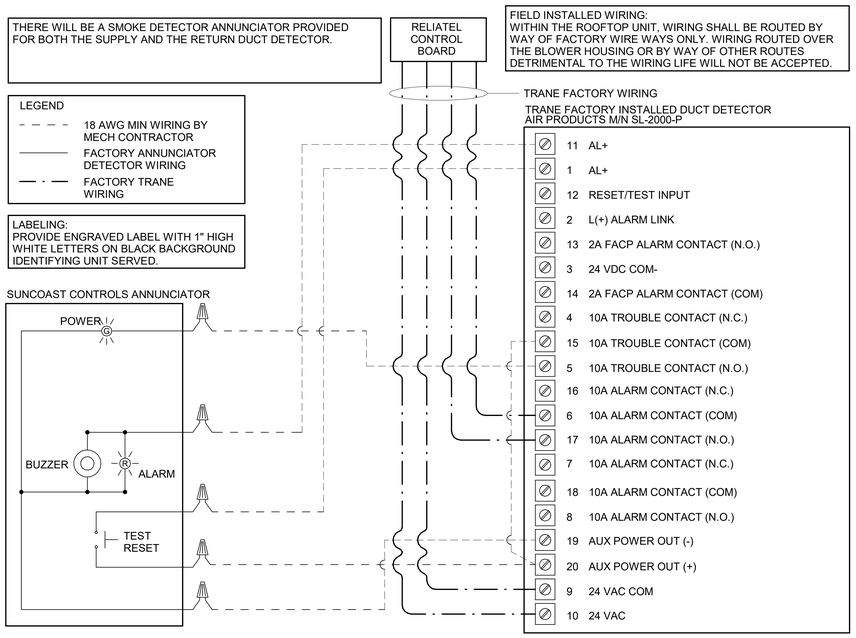
NOT TO SCALE

THERE WILL BE A SMOKE DETECTOR ANNUNCIATOR PROVIDED FOR BOTH THE SUPPLY AND THE RETURN DUCT DETECTOR.

FIELD INSTALLED WIRING:
WITHIN THE ROOFTOP UNIT, WIRING SHALL BE ROUTED BY WAY OF FACTORY WIRE WAYS ONLY. WIRING ROUTED OVER THE BLOWER HOUSING OR BY WAY OF OTHER ROUTES DETRIMENTAL TO THE WIRING LIFE WILL NOT BE ACCEPTED.

LEGEND	
- - - -	18 AWG MIN WIRING BY MECH CONTRACTOR
———	FACTORY ANNUNCIATOR DETECTOR WIRING
— · —	FACTORY TRANE WIRING

LABELING:
PROVIDE ENGRAVED LABEL WITH 1" HIGH WHITE LETTERS ON BLACK BACKGROUND IDENTIFYING UNIT SERVED.



1 SMOKE DETECTOR AND ANNUNCIATOR WIRING DIAGRAM

NOT TO SCALE

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

Kurzynske & Associates
2705 Lebanon Pike - Suite One
Nashville, Tennessee 37214
Telephone: (615) 255-5203

MARK T. KURZYNSKE
NEW JERSEY LICENSE # GE44646
STATE OF NEW JERSEY — MARK THOMAS KURZYNSKE — NO. GE44646 — LICENSED PROFESSIONAL ENGINEER
01/24/22

CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE ALL
RELEASE: v2.18.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #	22008.EH.S
PRINTED FOR	PERMIT
DATE	01/24/2022
DRAWN BY	BLM

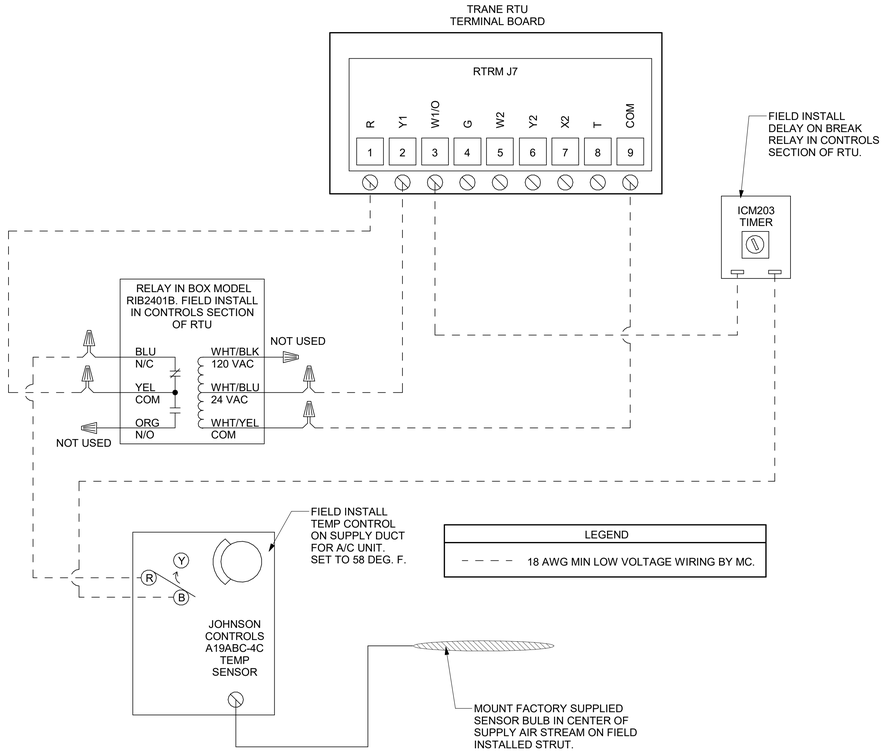
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SHEET: HVAC CONTROLS

SHEET NUMBER: **M-501**

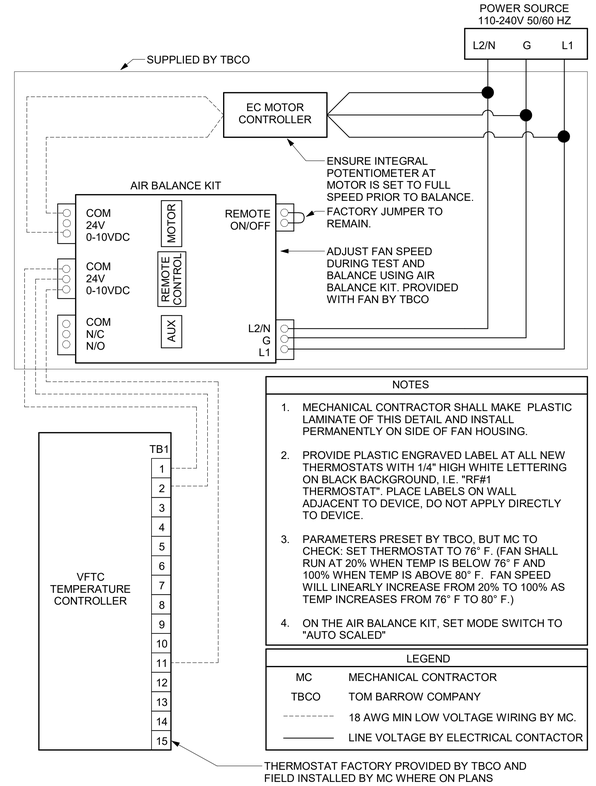
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2 TRANE FRESH AIR TEMPERING DETAIL

NOT TO SCALE



NOTES

1. MECHANICAL CONTRACTOR SHALL MAKE PLASTIC LAMINATE OF THIS DETAIL AND INSTALL PERMANENTLY ON SIDE OF FAN HOUSING.
2. PROVIDE PLASTIC ENGRAVED LABEL AT ALL NEW THERMOSTATS WITH 1/4" HIGH WHITE LETTERING ON BLACK BACKGROUND, I.E. "RF#1 THERMOSTAT". PLACE LABELS ON WALL ADJACENT TO DEVICE, DO NOT APPLY DIRECTLY TO DEVICE.
3. PARAMETERS PRESET BY TBCO, BUT MC TO CHECK: SET THERMOSTAT TO 76° F. (FAN SHALL RUN AT 20% WHEN TEMP IS BELOW 76° F AND 100% WHEN TEMP IS ABOVE 80° F. FAN SPEED WILL LINEARLY INCREASE FROM 20% TO 100% AS TEMP INCREASES FROM 76° F TO 80° F.)
4. ON THE AIR BALANCE KIT, SET MODE SWITCH TO "AUTO SCALED"

LEGEND	
MC	MECHANICAL CONTRACTOR
TBCO	TOM BARROW COMPANY
- - - -	18 AWG MIN LOW VOLTAGE WIRING BY MC.
———	LINE VOLTAGE BY ELECTRICAL CONTACTOR

1 DTT CLOSET CONTROL DIAGRAM - RF#1

NOT TO SCALE

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5200 Buffington Road
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NEW JERSEY LICENSE # GE44646
STATE OF NEW JERSEY
MARK T. KURZYNSKE
NO. GE44646
LICENSED PROFESSIONAL ENGINEER
01/24/22

CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE ALL
RELEASE: v2.18.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT #	22008.EH.S
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DATE	01/24/2022
DRAWN BY	BLM

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SHEET
HVAC CONTROLS

SHEET NUMBER
M-502

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1. SECTION C15000 - MECHANICAL SPECIFICATIONS

PART I - GENERAL

1.01 SCOPE

A. IT IS THE RESPONSIBILITY OF CONTRACTOR TO READ ALL SPECIFICATIONS AND CONSULT ALL DRAWINGS WHICH MAY AFFECT THE INSTALLATION AND COORDINATION OF HIS WORK WITH OTHER TRADES. CONTRACTOR SHALL COORDINATE AND MAKE MINOR ADJUSTMENTS IN LOCATION OF EQUIPMENT AND MATERIALS AS NECESSARY TO SECURE COORDINATION.

B. COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES, INCLUDING BUT NOT LIMITED TO THE LATEST APPROVED EDITIONS OF NFPA-96, NFPA-90A, NFPA-54, SMACNA, ASHRAE 90.1 AND ASHRAE 62.

C. SYSTEM LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY STRUCTURAL CONDITIONS, COORDINATION WITH OTHER TRADES, COORDINATION WITH FINISHES AND OTHER CONDITIONS. STRUCTURAL SUPPORTS SHALL NOT BE CUT OR ALTERED TO ASSURE FIT OF HVAC SYSTEM. TEN FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN OUTSIDE AIR INTAKES AND EXHAUST FANS AND PLUMBING VENT TERMINALS.

D. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER FINAL PAYMENT IS APPROVED. CONTRACTOR SHALL HONOR FACTORY WARRANTIES ON ALL EQUIPMENT PROVIDED AS PART OF THIS SYSTEM.

E. UPON COMPLETION OF PROJECT, ALL SYSTEM EQUIPMENT AND MATERIALS SHALL BE IN NEW, CLEAN CONDITION WITH ALL DAMAGE RESTORED TO CONDITION ACCEPTABLE TO THE OWNERS REPRESENTATIVE. ALL EQUIPMENT, COMPONENTS AND DUCTWORK, AND AIR DEVICES SHALL BE INSPECTED AND THOROUGHLY CLEANED, CLEARED OF DEBRIS, AND READY FOR USE. AT COMPLETION OF JOB, ALL MISCELLANEOUS TOOLS, SCAFFOLDING, SURPLUS MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED BY CONTRACTOR.

F. CONTRACTOR SHALL PROVIDE TWO SETS OF 2" MERV 8 OR HIGHER THROW AWAY TYPE FILTERS. A CLEAN SET SHALL BE PROVIDED PRIOR TO TEST AND BALANCE AND AGAIN PRIOR TO OPENING.

PART II - PRODUCTS

2.01 HEATING AND COOLING EQUIPMENT (C15730)

A. FURNISH AND INSTALL R-410A ROOFTOP SINGLE PACKAGE COMBINATION ELECTRIC COOLING AND NATURAL GAS FIRED HEATING UNITS BY TRANE AS SHOWN ON DRAWINGS. EQUIPMENT SHALL BE ARI CERTIFIED AND A.G.A. AND U.L. LISTED.

B. ACCESSORIES SHALL INCLUDE LOW AND HIGH PRESSURE SAFETIES, CRANK CASE HEATER, OVERCURRENT AND OVERTEMPERATURE SAFETY, COMPRESSOR VIBRATION ISOLATORS, FILTER DRIERS, REFRIGERANT SERVICE VALVES, COIL HAIL GUARDS WHERE SCHEDULED, CONVENIENCE OUTLETS FACTORY INSTALLED ON SCHEDULED UNITS, UNIT MOUNTED NON-FUSED DISCONNECTS, LOW AMBIENT OPERATION DOWN TO 30 DEGREES F AND EVAPORATOR FREEZE STAT.

C. COMPRESSORS SHALL BE FULLY HERMETIC SCROLL TYPE WITH INTERNAL VIBRATION ISOLATORS. COMPRESSORS SHALL BE PROVIDED WITH A MINIMUM FIVE (5) YEAR FULL WARRANTY.

D. THE UNIT HEAT EXCHANGERS SHALL BE STEEL WITH ALUMINIZED STEEL COATING. HEATING CONTROLS SHALL CONSIST OF REDUNDANT GAS VALVES, INTERMITTENT PILOT WITH ELECTRONIC SPARK OR HOT PLATE IGNITION SYSTEM, COMBUSTION/EXHAUST FAN PROTECTED BY CENTRIFUGAL SWITCHES, HEAT LIMIT SWITCHES, TIME-DELAY RELAY, FLAME, AND PILOT SENSORS. ALL UNITS SHALL BE CAPABLE OF TWO STAGES OF HEAT. HEAT EXCHANGES SHALL HAVE A TEN (10) YEAR WARRANTY. BURNERS SHALL BE ALUMINIZED IN-SHOT TYPE. THE DRAFT MOTOR SHALL BE MONITORED BY THE CONTROL SYSTEM.

E. CHICK-FIL-A MAINTAINS A NATIONAL ACCOUNT FOR EQUIPMENT WITH TRANE. PRICING FOR THE EQUIPMENT HAS BEEN ESTABLISHED IN ADVANCE. CONTACT TRANE NATIONAL ACCOUNTS AT 630-400-4285 FOR PRICING, ORDERING AND AVAILABILITY.

2.02 DUCTWORK (C15735) (SEE DWG M-301 FOR ADDITIONAL GREASE DUCT SYSTEM REQ.)

A. ACCEPTABLE MANUFACTURERS OF INSULATION ARE MANVILLE, OWENS CORNING OR KNAUF.

B. ALL DUCTWORK SHALL BE SHEET METAL, UNLESS NOTED OTHERWISE (U.N.O.).

C. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS, U.N.O.

D. CONSTRUCTION OF DUCTWORK SHALL MEET SMACNA 1" W.C. PRESSURE CLASS STANDARD AND RECOMMENDATIONS. SMACNA SHALL BE FOLLOWED WITH RESPECT TO GAGE THICKNESS, JOINTS, REINFORCING, CONSTRUCTION, INSTALLATION AND SUPPORT FOR PRESSURE CLASS STATED. ALL TRANSVERSE JOINTS IN RECTANGULAR AND ROUND DUCT INCLUDING DUCT CONNECTION TO AIR DEVICE COLLAR SHALL BE SEALED PER SMACNA SEAL CLASS C WITH U.L. DUCT MASTIC SEALANT APPROVED FOR INTENDED USE. DUCT TAPE IS NOT AN ACCEPTABLE SUBSTITUTE FOR MASTIC UNLESS EQUAL TO HARDCAST FOIL-GRIP 1402 BUTYL RUBBER ADHESIVE TAPE.

E. DUCT SHALL BE SUPPORTED AT BASE OF DUCT DROPS. CURB DUCT RAILS ARE NOT INTENDED TO AND SHALL NOT SUPPORT THE WEIGHT OF THE DUCT.

F. ALL DUCT INSULATION SHALL MEET MINIMUM R-VALUE REQUIRED BY ASHRAE 90.1 LATEST EDITION. ALL DUCT WRAP SHALL BE MINIMUM 2" THICK, 3/4 PCF AND 6 R-VALUE INSTALLED WITH EITHER A VAPOR BARRIER WITH MAXIMUM PERMEANCE 0.05 OR A MINIMUM 2 MIL ALUMINUM REINFORCED FOIL/KRAFT FACING.

G. ALL DUCT DROPS FROM THE ROOFTOP UNITS SHALL BE EXTERNALLY INSULATED.

H. SUPPLY AND RETURN AIR DUCTWORK SERVING ALL AREAS SHALL BE EXTERNALLY INSULATED.

I. ALL AIR CONVEYANCE COMPONENTS SUCH AS, BUT NOT LIMITED TO DUCT, DUCT PLENUMS, GRILLES/DIFFUSERS, BACK PANS, AND BOOTS SHALL BE INSULATED. INSULATION TYPE IS COVERED ELSEWHERE IN THIS SPECIFICATION.

J. RESTROOM RECTANGULAR EXHAUST AIR DUCTWORK SHALL BE LINED WITH 1" THICK, 1-1/2 PCF INSULATION. RESTROOM ROUND EXHAUST DUCT SHALL BE EXTERNALLY INSULATED PER SECTION 2.02F.

K. TRUNK DUCTS SHALL BE ISOLATED FROM UNIT VIBRATION WITH THE USE OF NFPA AND U.L. APPROVED FLEXIBLE CONNECTORS INSTALLED AT THE TOP OF BOTH SUPPLY AND RETURN DROPS.

L. INSULATED FLEXIBLE DUCT MAY BE UTILIZED FOR RUNOUTS TO GRILLES AND DIFFUSERS ONLY IN THE HORIZONTAL POSITION AND IN MAXIMUM LENGTHS OF 4'-0", NO EXCEPTIONS. SEE TAKE-OFF DETAIL ON DRAWING M-401.

M. CONSTRUCTION OF FLEXIBLE DUCTWORK SHALL INCLUDE SPIRAL METAL HELIX BONDED TO A POLYESTER CORE, FIBERGLASS INSULATION WITH POLYETHYLENE OR MYLAR VAPOR BARRIER. ALL COMPONENTS SHALL HAVE APPROPRIATE U.L. APPROVAL AND SHALL BE EQUIVALENT TO THERMAFLEX MKE.

N. FLEXIBLE DUCT SHALL BE INSTALLED PER THE "ADC FLEXIBLE DUCT PERFORMANCE AND INSTALLATION STANDARDS, 4TH ED" USING FOIL TAPE AND DRAWBAND ON THE INNER CORE AND TAPE OR DRAWBAND ON THE OUTER JACKET.

O. DUCT TAPE SHALL BE EQUAL TO FASSON 181-B FX, 2-1/2" WIDE.

P. SINGLE THICKNESS TURNING VANES SHALL BE INSTALLED AT 90 DEGREE TURNS IN SUPPLY DUCTWORK WHERE ANY ONE DIMENSION IS GREATER THAN 12".

Q. RADIUSED ELBOWS MAY BE SUBSTITUTED FOR 90 DEGREE ELBOWS AT THE DISCRETION OF THE CONTRACTOR. CENTERLINE RADIUS EQUAL TO; R=W PER FIGURE NO. 4-2 IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

R. EXTERNAL INSULATION ON BOTTOM OF DUCTS 24" OR WIDER SHALL BE SUPPORTED WITH STICK PINS ON 18" CENTERS. STICK PIN WASHERS SHALL BE COVERED WITH DUCT TAPE OR MASTIC.

2.03 CONTROLS (C15735)

A. SYSTEMS SHALL BE COMPLETE WITH CONNECTIONS TO CFA-500 TEMPERATURE CONTROL PANEL AS MANUFACTURED BY SUNCOAST ENVIRONMENTAL CONTROLS (S.E.C.) (PH: 877-544-6679). THE PANEL IS PROVIDED AND MOUNTED BY THE ELECTRICAL CONTRACTOR. CONTROL WIRING TERMINATIONS ARE BY THE MECHANICAL CONTRACTOR.

B. THE SMOKE DETECTORS SHALL BE FACTORY INSTALLED AND WIRED BY THE ROOFTOP UNIT MANUFACTURER.

C. A FACTORY INSTALLED SMOKE DETECTOR IN THE RETURN AIR SECTION OF EACH AIR CONDITIONING UNIT SHALL STOP THE INDOOR FAN AND CLOSE THE OUTSIDE AIR DAMPER IN THE EVENT OF EXCESSIVE TEMPERATURE OR SMOKE. SMOKE DETECTOR SHALL BE LOCATED PRIOR TO ANY EXHAUST FROM THE BUILDING OR MIXING WITH FRESH AIR MAKE-UP. UPON DETECTION, THE SYSTEM SHALL NOT RESTART UNTIL THE DEVICE IS MANUALLY RESET. DEVICES SHALL BE LOCATED WHERE THEY CAN BE EASILY ACCESSED AND WHERE CLEAR OF FILTERS.

D. CHICK-FIL-A HAS A NATIONAL ACCOUNT WITH SUNCOAST ENVIRONMENTAL CONTROLS FOR THE SMOKE DETECTOR TEST/RESET ANNUNCIATOR STATIONS. THE TEST/RESET STATIONS WILL BE PURCHASED BY THE ELECTRICAL CONTRACTOR AS A PART OF A NATIONAL ACCOUNT PACKAGE AND TURNED OVER TO THE MECHANICAL CONTRACTOR FOR INSTALLATION.

E. THE REMOTE TEST/RESET ANNUNCIATORS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. INSTALLATION BY MECHANICAL SHALL INCLUDE MOUNTING OF THE ANNUNCIATORS AND ALL WIRING FROM EACH DEVICE TO THE RTU. ELECTRICAL WILL PROVIDE A JUNCTION BOX IN THE WALL WITH 1/2" CONDUIT STUBBED UP ABOVE THE CEILING FOR EACH REMOTE TEST STATION AS SHOWN ON THE ELECTRICAL PLANS. ANNUCIATOR SHALL BE SUNCOAST CONTROLS REMOTE TEST/RESET STATION WITH POWER LED, TROUBLE LED, ALARM LED, 90DB HORN AND TEST/RESET BUTTON.

F. THE RESTROOM FAN SHALL BE INTERLOCKED TO THE LIGHTS SERVING THE MEN AND WOMEN'S RESTROOMS. THE HOOD FANS SHALL BE CONTROLLED VIA THE SUNCOAST CFA-500 CONTROL PANEL. WIRING, RELAYS AND SWITCHES FOR CONTROL OF ALL FANS ARE BY ELECTRICAL CONTRACTOR.

G. TRANE UNITS - THERMOSTATS ARE PROVIDED AND INTEGRATED INTO THE TEMPERATURE CONTROL PANEL BY SUNCOAST ENVIRONMENT CONTROLS. SUNCOAST WILL PROVIDE A NETWORK THERMOSTAT US32-CFA THERMOSTAT PRE-WIRED IN THE TEMPERATURE CONTROL PANEL. A REMOTE TEMPERATURE SENSOR FOR EACH THERMOSTAT IS ALSO PROVIDED. MECHANICAL CONTRACTOR SHALL INSTALL ALL WIRING BETWEEN THE THERMOSTAT, THE REMOTE SENSOR AND THE ROOFTOP UNIT.

H. MECHANICAL CONTRACTOR SHALL INSTALL CONTROL WIRING IN 1/2" CONDUIT WHERE REQUIRED BY CODE. WHERE NOT REQUIRED TO BE IN CONDUIT, ALL WIRING SHALL BE RUN PARALLEL TO STRUCTURAL MEMBERS OR PERPENDICULAR WITH NO DIAGONAL ROUTING. ALL WIRING SHALL BE SECURED TO THE FRAMING TO PREVENT SAGGING IN RUNS. WIRING TO ROOFTOP UNITS SHALL BE ROUTED THROUGH THE FACTORY THRU-BASE FITTING IN THE UNIT BASE. NO SPLICING OF WIRING WILL BE ACCEPTED. ALL WIRING ABOVE THE ROOF SHALL BE INSTALLED IN EXTERIOR GRADE FLEXIBLE CONDUIT. ALL CONTROL WIRING AND CONTROL WIRING CONDUIT SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LATEST EDITION OF NEC. ALL LOW VOLTAGE CONTROL WIRING SHALL BE NO LESS THAN 18 AWG MIN. CONTROL WIRING CONDUCTORS SHALL BE SIZED TO ACCOUNT FOR LOAD AND LENGTH OF RUN TO ALLOW SUFFICIENT VOLTAGE AVAILABLE AT CONTROLLED DEVICE TO OPERATE THE SYSTEM RELIABLY.

PART III - EXECUTION

3.01 SCOPE

A. FURNISH AND INSTALL SYSTEM IN ACCORDANCE WITH REFERENCED STANDARDS, APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED ON DRAWINGS.

B. CONTRACTOR SHALL INSTRUCT THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT THROUGH DEMONSTRATION AND EXPLANATION OF OPERATING & MAINTENANCE MANUALS.

C. CONTRACTOR SHALL PROVIDE A "SAMPLE MAINTENANCE PROPOSAL" TO THE OWNER'S REPRESENTATIVE IN ALL MATTERS PERTAINING TO THE PROPER MAINTENANCE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.

D. CONTRACTOR SHALL COMPLETE A/C EQUIPMENT STARTUP DOCUMENTATION PROVIDED BY OWNER AND/OR MANUFACTURER. THIS SHALL INCLUDE RE-TORQUE OF ALL FIELD AND FACTORY HIGH VOLTAGE CONNECTIONS.

3.02 LEED PROJECTS

A. CONTRACTOR SHALL COMPLETE RECEIPT INSPECTION CHECKLISTS PROVIDED IN THE COMMISSIONING PLAN WITHIN 5 DAYS OF RECEIVING EQUIPMENT ON SITE.

B. CONTRACTOR SHALL COMPLETE PRE-FUNCTIONAL CHECKLISTS PROVIDED IN THE COMMISSIONING PLAN. CHECKLISTS SHALL BE RETURNED AT LEAST 5 DAYS PRIOR TO SCHEDULING FUNCTIONAL PERFORMANCE TESTING.

C. CONTRACTOR SHALL PROVIDE A TECHNICIAN TO ASSIST THE THIRD PARTY COMMISSIONING AUTHORITY WITH FUNCTIONAL TESTING. FUNCTIONAL TESTING SHALL OCCUR AFTER ALL CONTROLS HAVE BEEN INSTALLED AND VERIFIED AND AFTER TEST AND BALANCE IS COMPLETE. THE FUNCTIONAL PERFORMANCE TEST PROCEDURES CAN BE FOUND IN THE COMMISSIONING PLAN.

D. IF THE TOTAL TIME REQUIRED TO CORRECT PROBLEMS DURING TESTING IS GREATER THAT FORTY-FIVE (45) MINUTES (UNLESS EXTENUATING CIRCUMSTANCES EXIST), THE TEST SHALL BE CONSIDERED FAILED AND MUST BE REPEATED IN ITS ENTIRETY.

E. RE-TESTING: DURING THE COURSE OF THE RETEST, IF AT ANY POINT A MAJOR DEFICIENCY IS DISCOVERED, THE TEST WILL BE STOPPED. REPEAT TESTS UNTIL ACCEPTABLE RESULTS ARE ACHIEVED. IF MORE THAN TWO FUNCTIONAL PERFORMANCE TESTS (ONE INITIAL TEST AND ONE RETEST) FOR ANY TYPE OF EQUIPMENT DUE TO ISSUES THAT THE CONTRACTOR HAD DIRECT OR INDIRECT CONTROL OVER ARE REQUIRED, THE COSTS FOR THE CXA TO WITNESS RETESTING OF SIMILAR TYPES OF EQUIPMENT UNTIL SATISFACTORY RESULTS ARE OBTAINED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

3.03 TEST & BALANCE

A. OWNER SHALL TEST AND BALANCE MECHANICAL SYSTEM IN ACCORDANCE WITH NEBB, NBC OR AABC STANDARDS TO ASSURE CONFORMANCE WITH DESIGN. G.C. WILL MAKE MECHANICAL CONTRACTOR AVAILABLE DURING TEST AND BALANCE TO ASSIST TESTING AGENCY AND TO MAKE CORRECTIONS IMMEDIATELY NECESSARY. CONTRACTOR SHALL CORRECT ITEMS ON WRITTEN TEST AND BALANCE REPORT.

B. ALL EQUIPMENT TO BE BALANCED MUST HAVE GONE THRU SUCCESSFUL START-UP PROCEDURE BY THE MECHANICAL CONTRACTOR (MC) PRIOR TO TAB VISIT.

C. THE FLOOR OF THE RESTAURANT SHALL BE CLEARED OF DEBRIS, STAGED CONSTRUCTION MATERIALS, EQUIPMENT, ETC. WHICH MAY, IN THE OPINION OF THE TAB TECHNICIAN, OBSTRUCT ACCESS TO AIR DISTRIBUTION COMPONENTS IN AND ABOVE THE CEILING.

D. EQUIPMENT ACCESS PANELS, DUCT AIR DEVICES SUCH AS BALANCING DAMPERS AND ACTUATORS SHALL BE ACCESSIBLE AND CLEAR OF PIPING, CONDUIT, FRAMING, SUPPORTS ETC...

E. PROVIDE AN 8 FT PORTABLE A-FRAME STYLE LADDER DEDICATED FOR THE TAB TECHNICIAN'S USE DURING THE ENTIRE TAB EFFORT DURATION.

F. THE MC SHALL BE AVAILABLE DURING THE ENTIRE DURATION OF THE TAB EFFORT AND HAVE ON-SITE THE RESOURCES AND TOOLS TO MAKE CORRECTIONS AS NEEDED UNDER THE DIRECTION OF THE TAB TECHNICIAN.

NATIONAL ACCOUNTS

1. TRANE EQUIPMENT - CONTACT TRANE NATIONAL ACCOUNTS AT 630-400-4285 FOR PRICING, ORDERING AND AVAILABILITY. TRANE EQUIPMENT NOT PURCHASED THRU TRANE NATIONAL ACCOUNTS WILL NOT BE ACCEPTED.
2. LOREN COOK FAN AND CURB PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE FAN/CURB PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. FANS AND CURBS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
3. PRICE AIR DEVICES - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DEVICES DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DEVICES NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
4. AIR DOORS - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE AIR DOORS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. AIR DOORS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
5. SUNCOAST ENVIRONMENTAL CONTROLS - THE CFA 500 PANEL AND THE TEST/RESET STATIONS WILL BE PURCHASED AND PROVIDED BY THE electrical CONTRACTOR AS A PART OF A NATIONAL ACCOUNT PACKAGE. SEE PART II PARAGRAPH 3A, 3D, AND 3E OF THE MECHANICAL SPECIFICATIONS FOR MORE INFORMATION.
6. HALTON HOODS - CHICK-FIL-A WILL PURCHASE AND PROVIDE THE HOODS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE HOODS. CONTACT HALTON CO. AT 270-237-5600 FOR MORE INFO.
7. ROYAL METAL PRODUCTS START COLLARS - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE START COLLARS DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. START COLLARS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.
8. SCHWANK INFRARED HEATER PACKAGE - THE MECHANICAL CONTRACTOR IS REQUIRED TO PURCHASE THE HEATER PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. HEATERS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

Kurzynske & Associates
2705 Lebanon Pike - Suite One
Nashville, Tennessee 37214
Telephone: (615) 255-5203

MARK T. KURZYNSKE
NEW JERSEY LICENSE # GE44646
STATE OF NEW JERSEY · KURZYNSKE · MARK · T · NO. GE44646 · LICENSED PROFESSIONAL ENGINEER
01/24/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE ALL
RELEASE: v2.18.08

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

PERMIT

CONSULTANT PROJECT #	22008.EH.S
PRINTED FOR	PERMIT
DATE	01/24/2022
DRAWN BY	JAL

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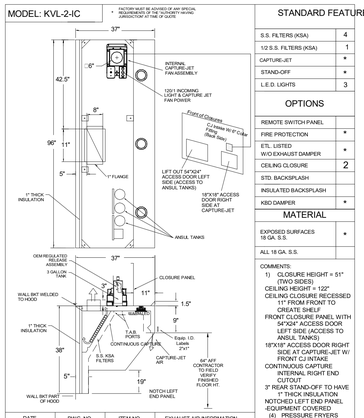
SHEET
MECHANICAL SPECIFICATIONS

SHEET NUMBER
M-901

BIM 360://NJ_04591_West Pond_2020.11_FSR(04591_West Pond_MEC.rvt
1/24/2022 11:15:49 AM
30-LE-04591-M-901-MECHANICAL SPECIFICATIONS

MODEL: KVL-2-IC

- FACTORY MUST BE ADVISED OF ANY SPECIAL CONSTRUCTION REQUIREMENTS HAVING JURISDICTION AT TIME OF QUOTE



STANDARD FEATURES	
S.S. FILTERS (KSA)	4
1/2 S.S. FILTERS (KSA)	1
CAPTURE-JET	*
STAND-OFF	*
L.E.D. LIGHTS	3
OPTIONS	
REMOTE SWITCH PANEL	
FIRE PROTECTION	*
ETL LISTED W/O EXHAUST DAMPER	*
CEILING CLOSURE	2
STD. BACKSPLASH	
INSULATED BACKSPLASH	
KBD DAMPER	*
MATERIAL	
EXPOSED SURFACES 18 GA. S.S.	*
ALL 18 GA. S.S.	

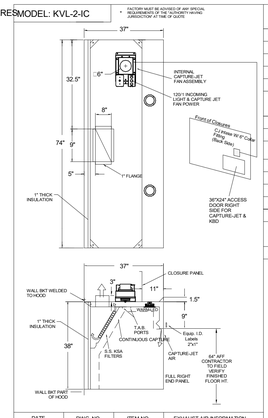
COMMENTS:
1) CLOSURE HEIGHT = 51" (TWO SIDES)
CEILING HEIGHT = 122"
CEILING CLOSURE RECESSED 11" FROM FRONT TO CREATE SHELF
FRONT CLOSURE PANEL WITH 54"X24" ACCESS DOOR LEFT SIDE (ACCESS TO ANSUL TANKS)
18"X18" ACCESS DOOR RIGHT SIDE AT CAPTURE-JET W/ FRONT CJ INTAKE
CONTINUOUS CAPTURE INTERNAL RIGHT END CUTOUT
3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
NOTCHED LEFT END PANEL
-EQUIPMENT COVERED
(4) PRESSURE FRYERS
(1) GRILL
ANSUL WEIGHT = 63 LBS
HOOD WEIGHT= 600 LBS

DATE	DWG. NO.	ITEM NO.	EXHAUST AIR INFORMATION		
07.16.21	U20-011-01	H-1L	CFM	TAB	SP
PROJECT: CHICK-FIL-A P13 LSL/ES/E BUILDING			1080	.13"	.24"
LOCATION: --			CAPTURE AIR INFORMATION		
			CFM		SP
SUBMITTED BY: HALTON CO.			72		.30"

4123

MODEL: KVL-2-IC

- FACTORY MUST BE ADVISED OF ANY SPECIAL CONSTRUCTION REQUIREMENTS HAVING JURISDICTION AT TIME OF QUOTE



STANDARD FEATURES	
S.S. FILTERS (KSA)	3
1/2 S.S. FILTERS (KSA)	1
CAPTURE-JET	*
STAND-OFF	*
L.E.D. LIGHTS	2
OPTIONS	
REMOTE SWITCH PANEL	
FIRE PROTECTION	*
ETL LISTED W/O EXHAUST DAMPER	*
CEILING CLOSURE	2
STD. BACKSPLASH	
INSULATED BACKSPLASH	
KBD DAMPER	*
MATERIAL	
EXPOSED SURFACES 18 GA. S.S.	*
ALL 18 GA. S.S.	

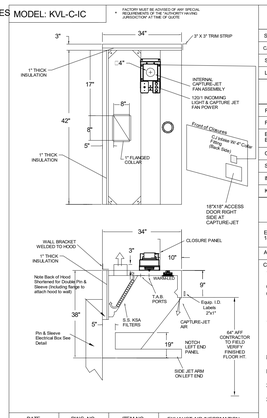
COMMENTS:
1) CLOSURE HEIGHT = 51" (TWO SIDES)
CEILING HEIGHT = 122"
CEILING CLOSURE RECESSED 11" FROM FRONT TO CREATE SHELF
36"x24" ACCESS DOOR RIGHT SIDE FOR ACCESS TO CAPTURE-JET W/ FRONT CJ INTAKE & KBD
CONTINUOUS CAPTURE INTERNAL LEFT END CUTOUT
FULL RIGHT END PANEL
3" REAR STAND-OFF TO HAVE 1" THICK INSULATION
- EQUIPMENT COVERED
(2) PRESSURE FRYERS
(1) GRILL
HOOD WEIGHT = 462 LBS

DATE	DWG. NO.	ITEM NO.	EXHAUST AIR INFORMATION		
07.16.21	U20-011-01	H-1R	CFM	TAB	SP
PROJECT: CHICK-FIL-A P13 LSL/ES/E BUILDING			832	.13"	.23"
LOCATION: --			CAPTURE AIR INFORMATION		
			CFM		SP
SUBMITTED BY: HALTON CO.			55		.30"

4123

MODEL: KVL-C-IC

- FACTORY MUST BE ADVISED OF ANY SPECIAL CONSTRUCTION REQUIREMENTS HAVING JURISDICTION AT TIME OF QUOTE



STANDARD FEATURES	
S.S. FILTERS (KSA)	2
CAPTURE-JET	*
STAND-OFF	*
L.E.D. LIGHTS	1
OPTIONS	
REMOTE SWITCH PANEL	
FIRE PROTECTION	*
ETL LISTED W/O EXHAUST DAMPER	*
CEILING CLOSURE	2
STD. BACKSPLASH	
INSULATED BACKSPLASH	
KBD DAMPER	*
MATERIAL	
EXPOSED SURFACES 18 GA. S.S.	*
ALL 18 GA. S.S.	

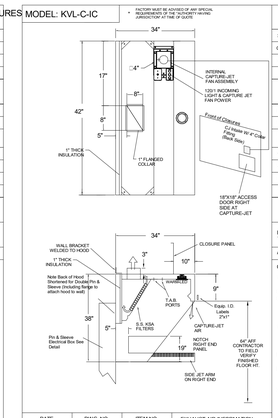
COMMENTS:
1) CLOSURE HEIGHT = 51" (TWO SIDES)
CEILING HEIGHT = 122"
CEILING CLOSURE RECESSED 10" FROM FRONT TO CREATE SHELF
18"X18" ACCESS DOOR CENTERED AT CAPTURE-JET W/ FRONT CJ INTAKE
NOTCHED LEFT END PANEL
DOUBLE RECEPTACLE PIN & SLEEVE
3" X 3" TRIM STRIP FOR STANDOFF ON RIGHT END
3" SIDE & REAR STAND-OFF TO HAVE 1" THICK INSULATION
-EQUIPMENT COVERED
(2) FRYERS
HOOD WEIGHT= 262 LBS

DATE	DWG. NO.	ITEM NO.	EXHAUST AIR INFORMATION		
07.16.21	U20-011-01	H-2	CFM	T.A.B.	SP
PROJECT: CHICK-FIL-A P13 LSL/ES/E BUILDING			701	.30"	.39"
LOCATION: --			CAPTURE AIR INFORMATION		
			CFM		SP
SUBMITTED BY: HALTON CO.			30		.29"

4123

MODEL: KVL-C-IC

- FACTORY MUST BE ADVISED OF ANY SPECIAL CONSTRUCTION REQUIREMENTS HAVING JURISDICTION AT TIME OF QUOTE



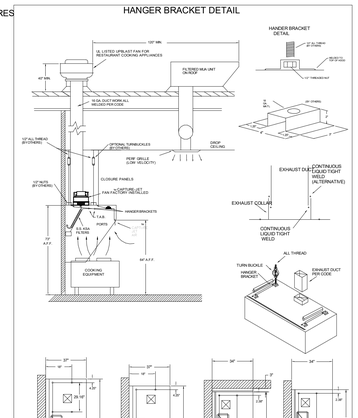
STANDARD FEATURES	
S.S. FILTERS (KSA)	2
CAPTURE-JET	*
STAND-OFF	*
L.E.D. LIGHTS	1
OPTIONS	
REMOTE SWITCH PANEL	
FIRE PROTECTION	*
ETL LISTED W/O EXHAUST DAMPER	*
CEILING CLOSURE	3
STD. BACKSPLASH	
INSULATED BACKSPLASH	*
KBD DAMPER	*
MATERIAL	
EXPOSED SURFACES 18 GA. S.S.	*
ALL 18 GA. S.S.	

COMMENTS:
1) CLOSURE HEIGHT = 51" (THREE SIDES)
CEILING HEIGHT = 122"
CEILING CLOSURE RECESSED 10" FROM FRONT TO CREATE SHELF
18"X18" ACCESS DOOR TO CAPTURE-JET FAN W/ FRONT CJ INTAKE
NOTCHED RIGHT END PANEL
DOUBLE RECEPTACLE PIN & SLEEVE
3" REAR SIDE STAND-OFF TO HAVE 1" THICK INSULATION
-EQUIPMENT COVERED
(2) FRYER
HOOD WEIGHT= 245 LBS

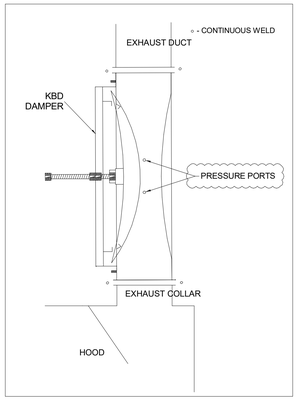
DATE	DWG. NO.	ITEM NO.	EXHAUST AIR INFORMATION		
07.16.21	U20-011-01	H-3	CFM	T.A.B.	SP
PROJECT: CHICK-FIL-A P13 LSL/ES/E BUILDING			701	.30"	.39"
LOCATION: --			CAPTURE AIR INFORMATION		
			CFM		SP
SUBMITTED BY: HALTON CO.			30		.29"

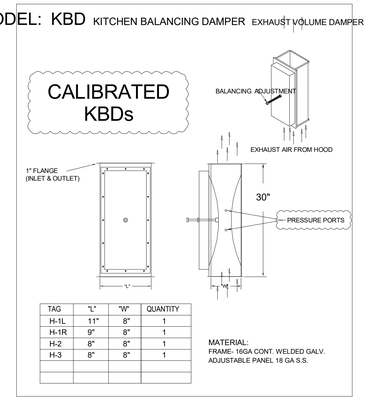
4123

HANGER BRACKET DETAIL



MODEL: KBD KITCHEN BALANCING DAMPER EXHAUST VOLUME DAMPER

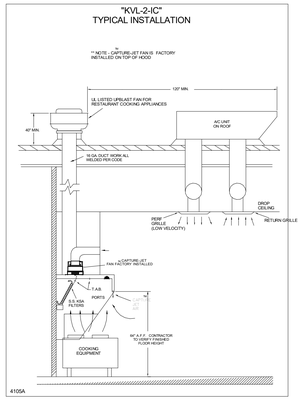




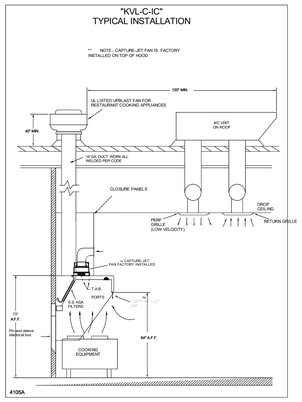
TAG	"L"	"W"	QUANTITY
H-1L	11"	8"	1
H-1R	9"	8"	1
H-2	8"	8"	1
H-3	8"	8"	1

MATERIAL:
FRAME- 16GA CONT. WELDED GALV.
ADJUSTABLE PANEL 18 GA S.S.

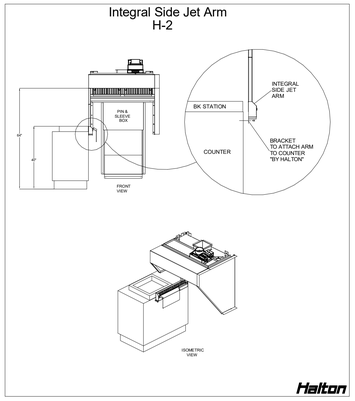
"KVL-2-IC"
TYPICAL INSTALLATION



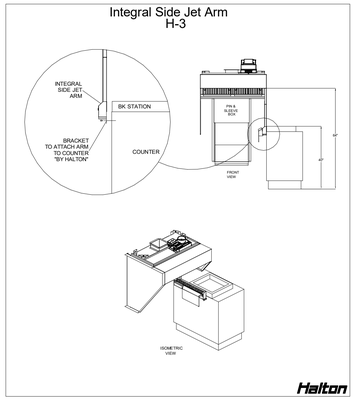
"KVL-C-IC"
TYPICAL INSTALLATION



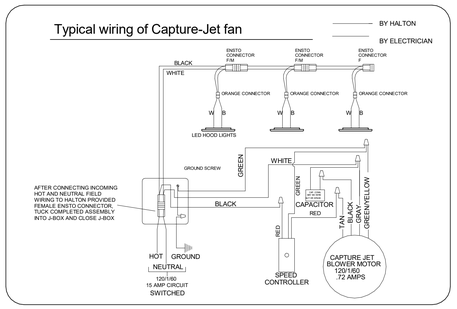
Integral Side Jet Arm
H-2

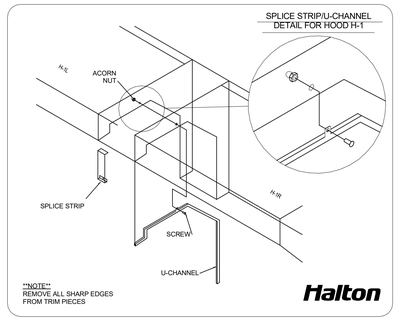


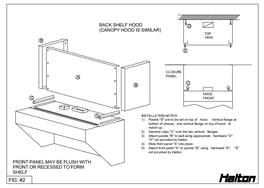
Integral Side Jet Arm
H-3

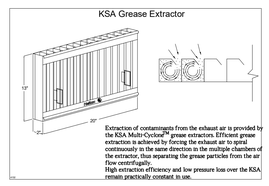


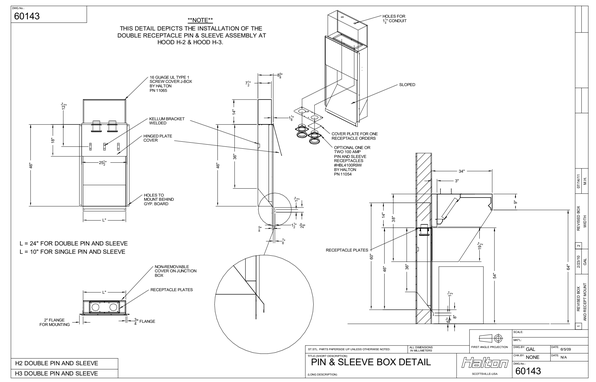
Typical wiring of Capture-Jet fan





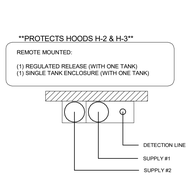


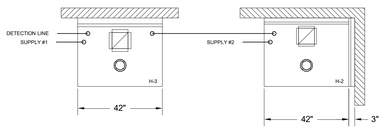




PROTECTS HOODS H-2 & H-3

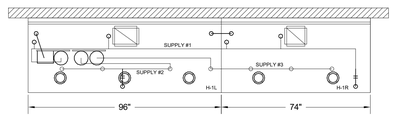
REMOTE MOUNTED:
(1) REGULATED RELEASE (WITH ONE TANK)
(1) SINGLE TANK ENCLOSURE (WITH ONE TANK)





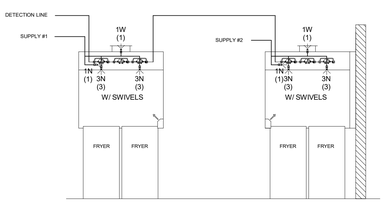
ANSUL R-102 FIRE SYSTEM
A): 6 GALLON SYSTEM (2 TANKS) (REMOTE MOUNTED) (FOR HOOD H-2 & H-3)
B): 3/8" BLACK IRON PIPING W/ 3/8" S.S. APPLIANCE DROPS

(1) REGULATED RELEASE
(2) EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN REG. REL.)
(2) 3 GALLON TANKS

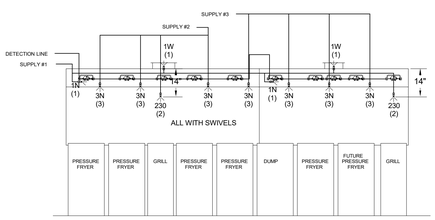


(1) OEM REGULATED RELEASE
(2) EXTRA MICRO SWITCH ASSEMBLIES (MOUNTED IN OEM REG. REL.)
(3) 3 GALLON TANKS

ANSUL R-102 FIRE SYSTEM
A): 9 GALLON SYSTEM (3 TANKS) (MOUNTED ON HOOD H-1L) (FOR HOODS H-1L & H-1R)
B): 3/8" BLACK IRON PIPING W/ 3/8" S.S. APPLIANCE DROPS



ANSUL R-102 FIRE SYSTEM LAYOUT



ANSUL R-102 FIRE SYSTEM LAYOUT

FUSIBLE LINK RATINGS

ITEM	TEMP
OPEN FRYERS	450°
2 BURNER / FLAT TOP	450°
PRESSURE FRYERS	450°
GRILL	450°
EXHAUST COLLARS	450°

ANSUL R-102 FIRE SYSTEM NOTES
THREE TANK SYSTEM MOUNTED ON TOP OF (H-1L)
MAXIMUM FLOW POINTS = 33

ANSUL R-102 FIRE SYSTEM NOTES
TWO TANK SYSTEM REMOTE MOUNTED
MAXIMUM FLOW POINTS = 22

ITEM #	QTY	DESCRIPTION	FLOW PTS (TOTAL)
1W	4	DUCT NOZZLES	4
1N	4	PLENUM NOZZLES	4
230	2	APPLIANCE NOZZLES	4
3N	11	APPLIANCE NOZZLES	33
		TOTAL FLOW POINTS -	45

ITEM #	QTY	DESCRIPTION
#200	14	SERIES DETECTORS W/ FUSIBLE LINKS
#201	2	TERMINAL DETECTOR W/ FUSIBLE LINKS
#202	1	OEM REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH
#202	1	REGULATED RELEASE W/ DOUBLE POLE MICRO SWITCH
#203	5	3 GALLON TANKS
#204	1	SINGLE TANK ENCLOSURE
#205	2	REMOTE PULL STATION

ANSUL R-102 FIRE SYSTEM
UL LISTED PER STD LATEST STD 300

1. FINAL INSTALLATION IS TO BE MADE IN ACCORDANCE WITH ALL APPLICAPBLE CODES
2. ALL ELECTRICAL COMPONENTS FOR EQUIPMENT SHUT DOWN TO BE PROVIDED BY THE ELECTRICIAN.
MICRO-SWITCH INSTALLED IN REGULATED RELEASE BY ANSUL INSTALLER
3. REMOTE PULL STATION LOCATED PER MECHANICAL DRAWINGS

HALTON HOODS
— ETL LISTED PER LATEST 710 STANDARD
— BUILT PER NFPA 96
— NSF LISTED

NSF Halton ETL INTERTEK 5016725 CONFORMS TO UL STD UL STD 710 CERTIFIED TO ULC STD 5946

HALTON COMPANY, 101 INDUSTRIAL DR., SCOTTSVILLE, KY 42164

MODEL NO.	SERIAL NO.	ITEM NO.
KVL-C-IC		

GENERAL REQUIREMENTS

FILTER TYPE EXHAUST HOOD FOR COMMERCIAL AND INSTITUTIONAL KITCHENS

THE FAN CIRCUIT IS RATED FOR 120V, 15A, 60HZ

THE LIGHTING CIRCUIT IS RATED FOR 120V, 15A, 60HZ

THE HOOD HAS BEEN CERTIFIED BY ETL FOR 0 INCH CLEARANCE TO COMBUSTIBLE

MATERIALS (TOP, SIDES, FRONT AND REAR) IN COMPLIANCE WITH (ILTH) WITH CONSIDERATIONS TO NFPA 96.

THE HOOD IS PROVIDED WITH REPLACEABLE KSA FILTERS AND LIGHTING FIXTURES

REPLACE FILTERS ONLY WITH UL CLASSIFIED KSA FILTER TYPE OF THE SAME MODEL AND MANUFACTURER.

SUITABLE FOR USE TO MEDIUM DUTY COOKING APPLIANCES.

DUTY LEVEL	MINIMUM OVERHANG		DISTANCE BETWEEN FRONT EDGE OF APPLIANCE TO HOOD SURFACE, IN.		MIN. EXHUST LENGTH OF HOOD LENGTH
	FRONT, IN.	SIDE, IN.	MIN.	MAX	
MEDIUM	6		24	30	138

JET SUPPLY AIR FLOW SHALL ONLY BE SET AT 5 (E IN H/E)

NSF Halton ETL INTERTEK 5016725 CONFORMS TO UL STD UL STD 710 CERTIFIED TO ULC STD 5946

HALTON COMPANY, 101 INDUSTRIAL DR., SCOTTSVILLE, KY 42164

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KVL-2-IC		

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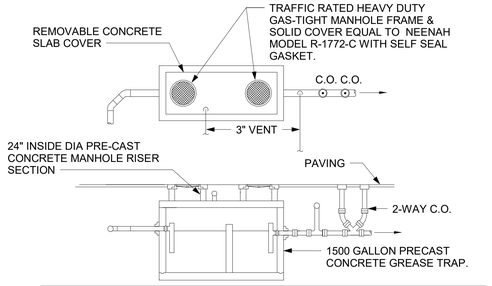
SUITABLE FOR USE TO HEAVY DUTY COOKING APPLIANCES.

DUTY LEVEL	MINIMUM OVERHANG		DISTANCE BETWEEN FRONT EDGE OF APPLIANCE TO HOOD SURFACE, IN.		MIN. EXHUST LENGTH OF HOOD LENGTH
	FRONT, IN.	SIDE, IN.	MIN.	MAX	
MEDIUM	6 in	6	20	30	121
MEDIUM	6	0	20	30	106
MEDIUM	6	0	20	30	133
HEAVY	6	2	20	25	181
HEAVY	6	2	20	30	218

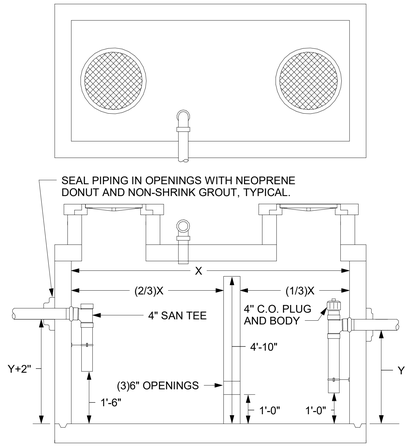
+ - SETBACK/UNDERHANG DISTANCE

JET SUPPLY AIR FLOW SHALL ONLY BE SET AT 5 (E IN H/E)

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW/WEBSITE: WWW.HALTONCOMPANY.COM
HALTON CO. (CANADA) 1021 BREVIK PLACE MISSISSAUGA, ON L4W 3R7 1-905-624-0901
HALTON COMPANY 101 INDUSTRIAL DRIVE SCOTTSVILLE, KY 42164 1-270-237-5600
REVISION DESCRIPTION | BY | DATE
REV: 1 2 3 4 5 6 7
PROJECT: CHICK-FIL-A
LOCATION: WEST POND FSR
DRAWN BY:
SCALE: NTS
DATE: 01/24/2022
SN# 04591
Halton Dwg:
Halton CARE FOR INDOOR AIR
Sheet MH-101

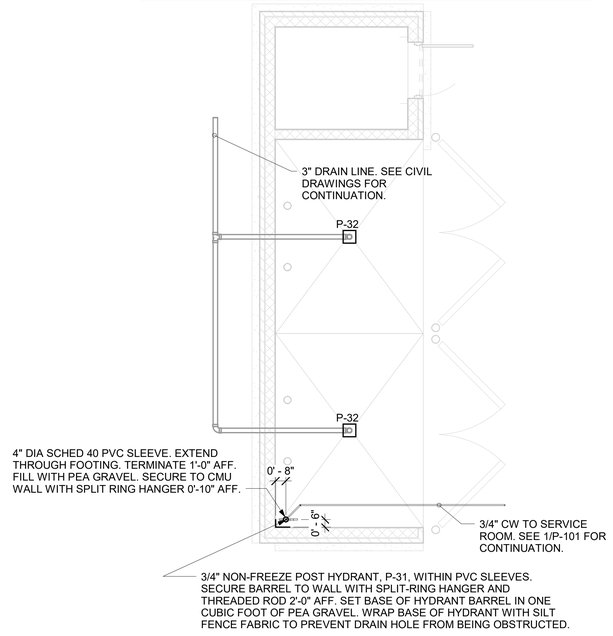


NOTES:
1. SET ON 0'-4" OF STRUCTURAL BACKFILL
2. INTERIOR DIMENSIONS CHANGES ALLOWED TO ACCOMPLISH SIMILAR VOLUME.
3. TRAP CAPACITY SUBJECT TO APPROVAL BY STATE OR LOCAL AUTHORITY. CONSTRUCTION MUST BE MONOLITHIC, INCLUDING THE BAFFLE. TRAP MUST MEET H-20 TRAFFIC LOADING REQUIREMENTS WHEN LOCATED IN A TRAFFIC AREA. SEE CIVIL PLANS FOR TRAP LOCATION.



2 GREASE INTERCEPTOR
NOT TO SCALE

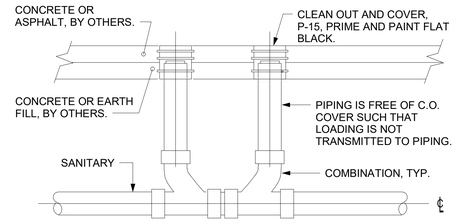
METHOD OF DRAINAGE AT REFUSE PAD -
WHEN AREA DRAIN IS SHOWN ON CIVIL PLANS, SEE FIXTURE P-32 SPECIFICATION ON DRAWING P-901 FOR MAKE AND MODEL OF DRAIN. DRAIN AND PIPING PROVIDED AND INSTALLED BY CHICK-FIL-A SITE CONTRACTOR. WHEN AREA DRAIN IS NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS FOR DESIGN OPTION SHOWING DRAINAGE THROUGH BACK OF DUMPSTER ENCLOSURE.



3 REFUSE PAD PLUMBING PLAN
1/4" = 1'-0"

5. SHEET NOTES

1. COORDINATE INSTALLATION OF SANITARY PIPING WITH FOOTINGS IN THE FIELD. SLEEVE PENETRATIONS IN FOOTINGS WITH PVC.
2. COMBINATION WASTE AND VENT SYSTEM SHOWN HERE. WHERE REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION, PROVIDE SAFE-WASTE SYSTEM OR DEDICATED VENT SYSTEM AS OUTLINED IN STATE AND LOCAL CODE AMENDMENTS.
3. ALL WATER PIPING INSTALLED WITHIN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE INSULATION.
4. ALL VENT PIPING TO BE 2" DIAMETER MIN U.N.O. SEE 1/P-301 FOR VENT LAYOUT.



4 SAN. C.O. OUTSIDE BUILDING
NOT TO SCALE

KEY NOTES

1 4" DOUBLE CO, P-15. SEE DETAIL 4/P-101.
2 PROVIDE TRAP SEAL PROTECTOR P-26A.
3 INSTALL FLOOR DRAIN P-35 AT MOP SINK DEPRESSION WITH TOP OF STRAINER 0'-7" BFF.
4 ROUTE TO GREASE TRAP - REFER TO DETAIL 2/P-101, REFER TO SITE UTILITY PLAN SHEET FOR EXACT LOCATION.

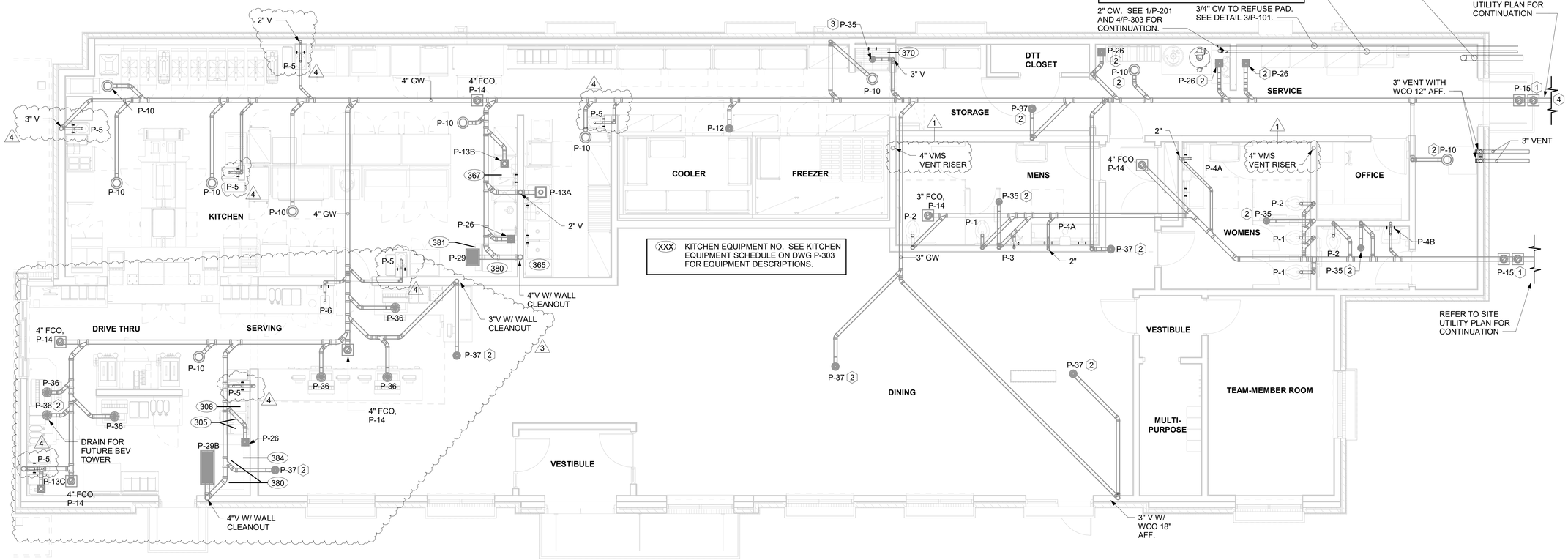
FIRE SPRINKLER LINE. SPRINKLER PIPING SHOWN ONLY FOR REFERENCE AND COORDINATION OF SPRINKLER RISER LOCATION. COORDINATE INSTALLATION WITH FIRE SPRINKLER CONTRACTOR AND SITE UTILITY CONTRACTOR.

MAIN 2" WATER SERVICE TO BUILDING:
REFER TO SITE UTILITY PLAN FOR CONTINUATION. MATERIAL USED FOR WATER SERVICE OUTSIDE BUILDING SHALL BE TYPE K.

2" CW. SEE 1/P-201 AND 4/P-303 FOR CONTINUATION.

3/4" CW TO REFUSE PAD. SEE DETAIL 3/P-101.

REFER TO SITE UTILITY PLAN FOR CONTINUATION



1 BELOW SLAB PLUMBING PLAN
1/4" = 1'-0"

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5200 Buffington Road
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2705 Lebanon Pike - Suite One
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MARK T. KURZYNSKE
NEW JERSEY LICENSE # GE44646
STATE OF NEW JERSEY · MARK T. KURZYNSKE · NO. GE44646 · LICENSED PROFESSIONAL ENGINEER
11/04/22

CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	03/29/2022	DESIGN NOTES
3	07/22/2022	DESIGN NOTES
4	11/02/2022	HEALTH COMMENTS

CONSTRUCTION

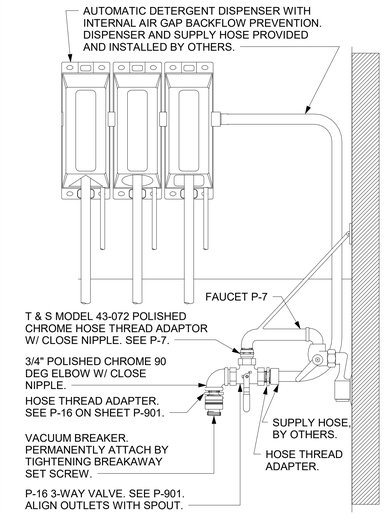
CONSULTANT PROJECT # 22008.EH.S
DATE 11/04/22
DRAWN BY CAC

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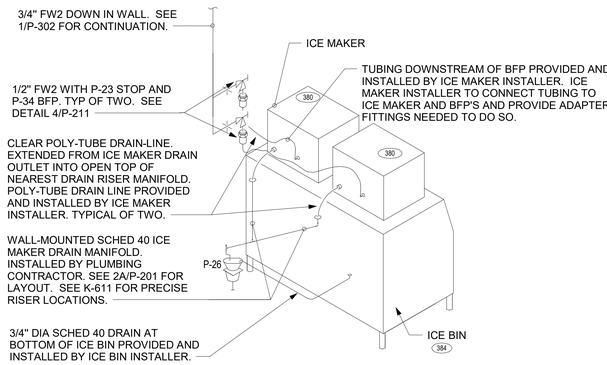
SHEET
BELOW SLAB PLUMBING PLAN

SHEET NUMBER
P-101

BIM 360://NJ_04591_West Pond_2020.11_FSR(04591_West Pond_PLB.rvt
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40-LE-04591-P-101-BELOW SLAB PLUMBING PLAN

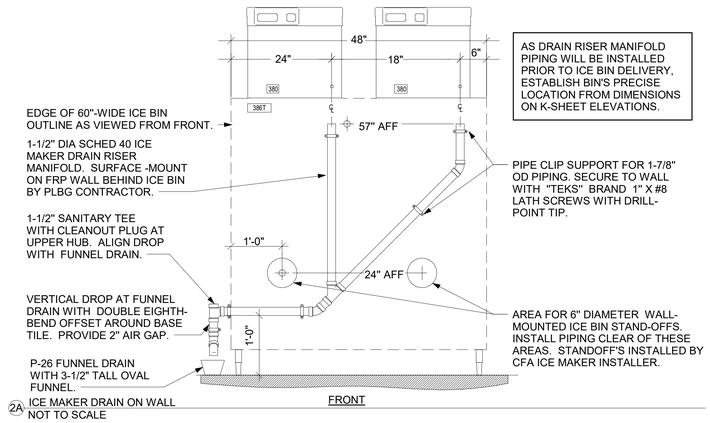


4 3-WAY VALVE AT MOP SINK
NOT TO SCALE



2 ICE MACHINE PIPING
NOT TO SCALE

DRAIN RISER LOCATIONS MEASURED FROM EDGE OF ICE BIN. VERIFY ICE BIN WIDTH AND PRECISE LOCATION FROM DIMENSIONS ON K-SHEET ELEVATIONS.



AS DRAIN RISER MANIFOLD PIPING WILL BE INSTALLED PRIOR TO ICE BIN DELIVERY, ESTABLISH BIN'S PRECISE LOCATION FROM DIMENSIONS ON K-SHEET ELEVATIONS.

2A ICE MAKER DRAIN ON WALL
NOT TO SCALE

3. SHEET NOTES

1. COORDINATE VENT TERMINAL LOCATIONS WITH FRESH AIR HOODS ON ROOFTOP EQUIPMENT SO AS TO MAINTAIN MINIMUM 15'-0" CLEARANCE.
2. HOLD ALL PIPING ABOVE THE CEILING TIGHT TO STRUCTURE. DUCT LOCATIONS TAKE PRIORITY. SEE DRAWING M-201 FOR DUCT LAYOUT. COORDINATE CONFLICTS WITH GC.
3. SEE K-SHEET ELEVATIONS FOR KITCHEN EQUIPMENT WATER PIPING ROUGH-IN LOCATIONS.
4. SEE SHEET P-211 FOR BEVERAGE CONDUIT PIPING.
5. SEE RISER DIAGRAM 1/P-301 FOR VENT PIPING. SEE ROOF PLAN 1/P-250 FOR VENT THRU ROOF (VTR) LOCATION.
6. VERIFY WALL TYPE AND WALL THICKNESS AT EXTERIOR HOSE BIBBS PRIOR TO ORDERING EQUIPMENT.
7. WATER HEATER PIPING IS SHOWN FOR STATE/A.O. SMITH MODELS WITH SIDE INLET/OUTLET CONNECTIONS. ADJUST PIPING AS NEEDED TO ACCOMODATE OTHER CONNECTION POINTS WHEN ALTERNATE MODELS ARE PROVIDED.
8. COORDINATE ABOVE-CEILING PIPING LOCATIONS AND ROUTING WITH HVAC CONTRACTOR AND M-SHEETS PRIOR TO INSTALLATION. ALL MAIN DUCT TRUNK LOCATIONS SHALL TAKE PRIORITY. PIPING MAY REQUIRE REMOVAL AND REINSTALLATION AT PLUMBING CONTRACTOR'S EXPENSE IF PIPING OBSTRUCTS THE M-SHEET DUCT LAYOUT AS SHOWN OR PREVENTS ACCESS TO GREASE DUCT CLEANOUT OPENINGS.

WALK-IN CONDENSATE PIPING NOTES:

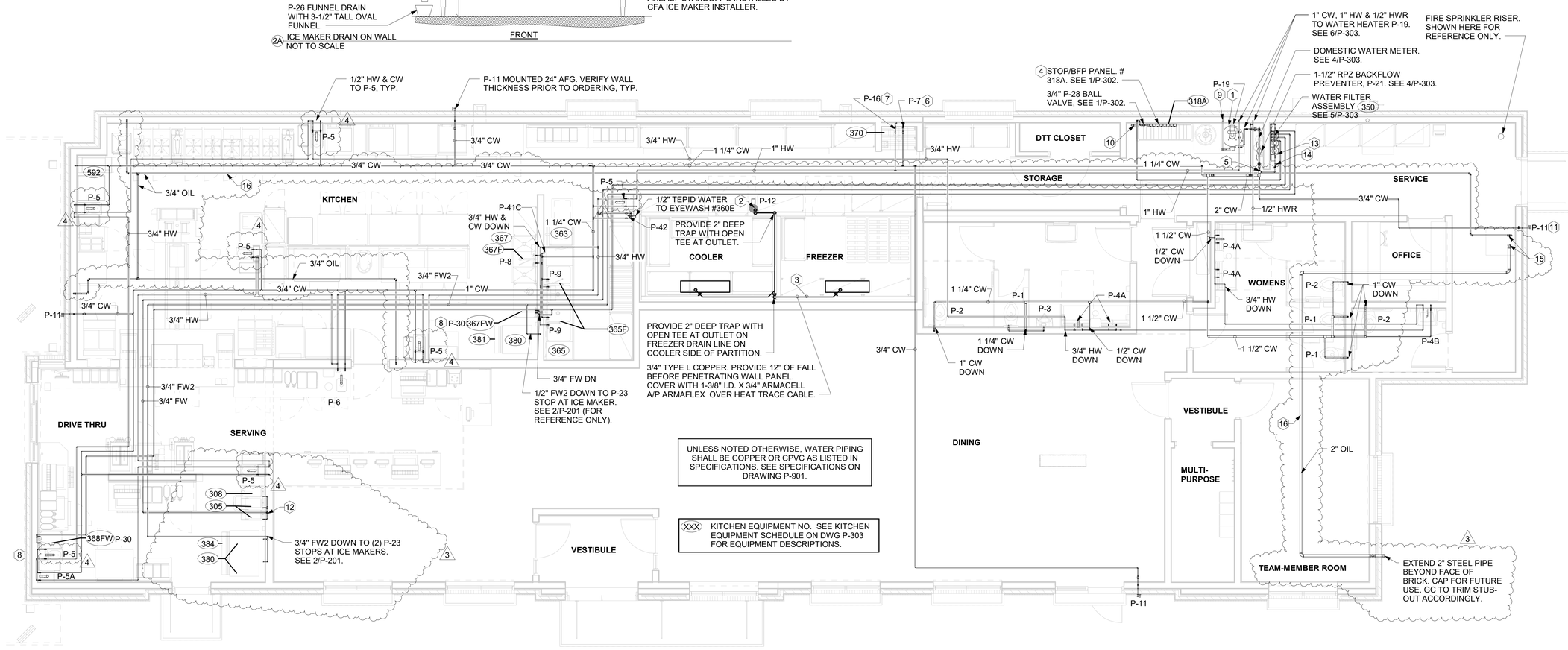
INSTALL PIPING TIGHT TO WALL SO AS NOT TO INTERFERE WITH COOLER AND FREEZER SHELVES. PROVIDE UNION FITTINGS IMMEDIATELY DOWNSTREAM OF CONNECTION TO EVAPORATORS.

NOTE TO WATER HEATER INSTALLER:

POSITION VALVES AND TRIM IN WATER HEATER CLOSET SUCH THAT VISIBLE OBSERVATION OF VALVES AND TRIM IS UNOBSTRUCTED AND SUCH THAT ACCESS FOR OPERATION OR REPAIR IS POSSIBLE WITHOUT USE OF STEP LADDERS OR ANY NEED TO DISASSEMBLE ANY COMPONENTS.

KEY NOTES

1 SEE 6/P-303 FOR P-19 WATER HEATER, AND P-38 HOT WATER CIRCULATING PUMP. COORDINATE WATER AND DWV PIPING IN THIS AREA WITH HVAC DUCT. SEE M-201 FOR DUCT LAYOUT.
2 TURN 3/4" CONDENSATE PIPING OUT OF COOLER AND EXTEND OUTLET TO P-12 FUNNEL DRAIN, SECURE PIPING TO COOLER/FREEZER WALL WITH RUBBER INSULATED PIPE CLAMPS TO PREVENT GALVANIC CORROSION. SEAL ALL PENETRATIONS IN WALLS WITH PERMAGUM CORD. TERMINATE ABOVE FUNNEL WITH ELBOW AND AIR GAP. PROVIDE P-TRAP IN CONDENSATE DRAIN OUTSIDE COOLER WITH OPEN-TOPPED TEE AT TRAP OUTLET.
3 APPLY RAYCHEM XL-TRACE, MODEL 5XL-1, SELF REGULATING HEATING CABLE. USE END SEAL KIT FROM MFR. PROVIDE P-TRAP IN CONDENSATE DRAIN ON COOLER SIDE OF COOLER-FREEZER PANEL WALL WITH OPEN-TOPPED TEE AT TRAP OUTLET. PROVIDE 6" OF FALL IN FREEZER DRAIN LINE PRIOR TO PENETRATING PANEL WALL. EXTEND HEAT TRACE TO P-TRAP OUTLET IN COOLER.
4 OWNER PROVIDED, PLUMBER INSTALLED STOP/BFP PANEL. SEE K-SHEET ELEVATIONS FOR EXACT LOCATION. PROVIDE EXPOSED 3/4" BALL VALVE AT CONNECTION TO PANEL. ROUTE 1" PVC DRAIN FROM FACTORY PANEL DRAIN CONNECTION TO P-26 FUNNEL DRAIN AT END OF BEVERAGE RACK AND TERMINATE WITH ELBOW AND AIR GAP.
5 2" CW. SEE 4/P-303 FOR EXACT ROUTING LOCATIONS OF CW PIPING IN THIS AREA.
6 1/2" HW AND CW DROPS TO MOP SINK FAUCET SET P-7. PROVIDE BALL VALVE FOR EACH ABOVE CEILING WITH P-22 BALL CHECK VALVE IN EACH DROP. SEE RISER DIAGRAM 1/P-302.
7 INSTALL P-16 3-WAY VALVE WITH BACKFLOW PREVENTER ON P-7 FAUCET SPOUT FOR CONNECTION TO ECOLAB DETERGENT DISPENSER. SEE DETAIL 4/P-201.
8 3/4" FW DROP TO TWO-HANDLE FAUCET, P-30. MOUNT FAUCET ON WALL. SEE K-SHEETS FOR EXACT LOCATION. PIPE 1/2" FW TO EACH FAUCET INLET WITH 6" SPREAD. PROVIDE BALL VALVE ABOVE CEILING. SEE RISER DIAGRAM 1/P-302.
9 1" GAS DOWN FROM ROOF FOR P-19. SEE 6/P-303 FOR CONTINUATION. OFFSET DROP WITHIN WALL ABOVE MECH ROOM CEILING.
10 1" DIAMETER PVC DRAIN FROM BACKFLOW PREVENTER PANEL. CONNECT 1" PVC TO FACTORY PROVIDED COUPLING MOUNTED ON BACK PANEL. ROUTE DRAIN TO P-26 FUNNEL DRAIN AT END OF BAG-N-BOX. MOUNT PIPING TIGHT TO WALL WITH STRUT AND CLAMP.
11 P-11 WALL HYDRANT 30" AFF WITH BALL VALVE IN DROP 48" AFF. VERIFY WALL THICKNESS PRIOR TO ORDERING. SEE WATER RISER 1/P-302.
12 1/2" FW TO P-24 & P-34 AT TWO TEA BREWERS AND ONE COFFEE MAKER. SEE 4/P-211 AND 1/P-302.
13 OWNER PROVIDED, PLUMBER INSTALLED WATER FILTERS. SEE DETAIL 5/P-303.
14 FW AND FW2 FROM WATER FILTERS. SEE DETAIL 5/P-303.
15 TURN 3/4" AND 2" SCHEDULE 40 STEEL PIPE DOWN THROUGH CEILING FOR FUTURE DARPRO OIL TANK AND CAP ACCORDINGLY. PROVIDE CHROMED ESCUTCHEONS AT CEILING PENETRATIONS. 3/4" OIL LINE TO BE CAPPED 2" BELOW CEILING.
16 PROVIDE SCHEDULE 40 (BLACK OR GALVANIZED) STEEL PIPING BACK TO FUTURE DARPRO OIL TANK. PIPING TO BE ROUTED TO ALLOW AS MUCH FALL AS POSIBLE TO THE TANK.



1 WATER PIPING PLAN PLUMBING
1/4" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

Kurzynske & Associates
2705 Lebanon Pike - Suite One
Nashville, Tennessee 37214
Telephone: (615) 255-5203

MARK T. KURZYNSKE
NEW JERSEY LICENSE # GE44646
STATE OF NEW JERSEY · MARK T. KURZYNSKE · NO. GE44646 · LICENSED PROFESSIONAL ENGINEER
11/04/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	07/22/2022	DESIGN NOTES
4	11/02/2022	HEALTH COMMENTS

CONSTRUCTION

CONSULTANT PROJECT # 22008.EH.S
DATE 11/04/22
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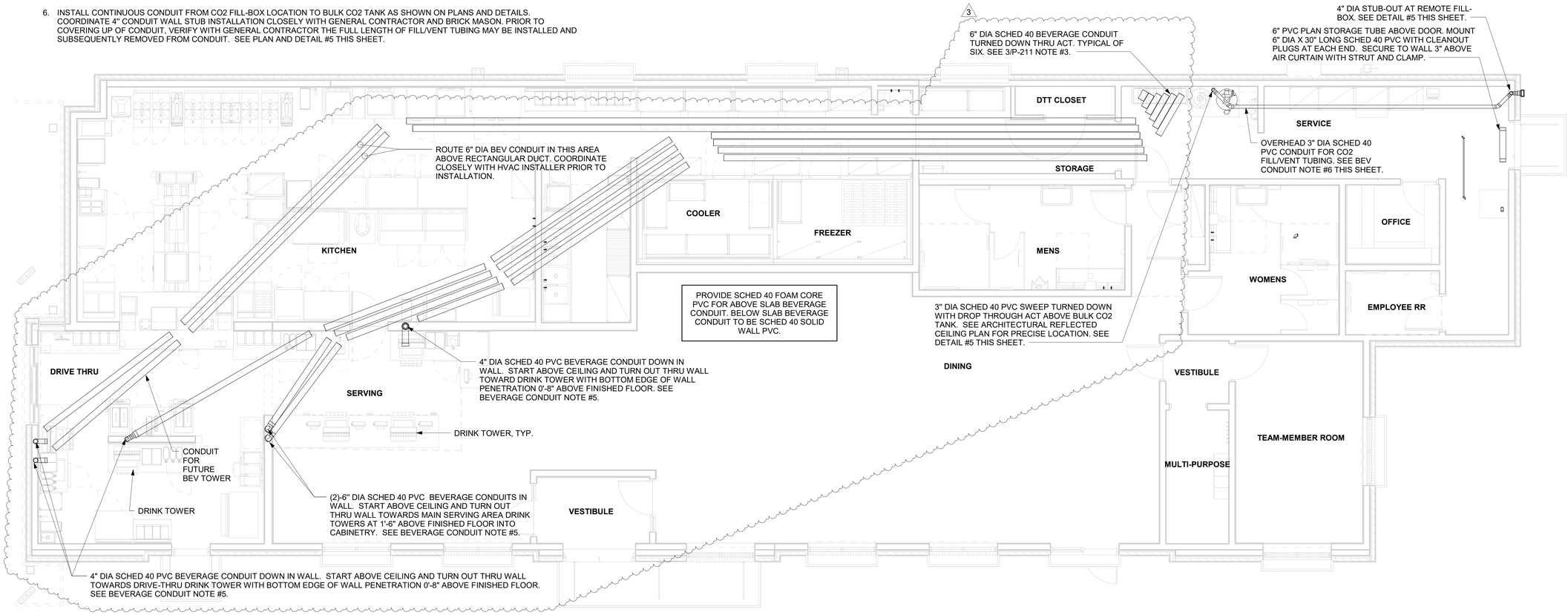
SHEET
WATER PIPING PLAN

SHEET NUMBER
P-201

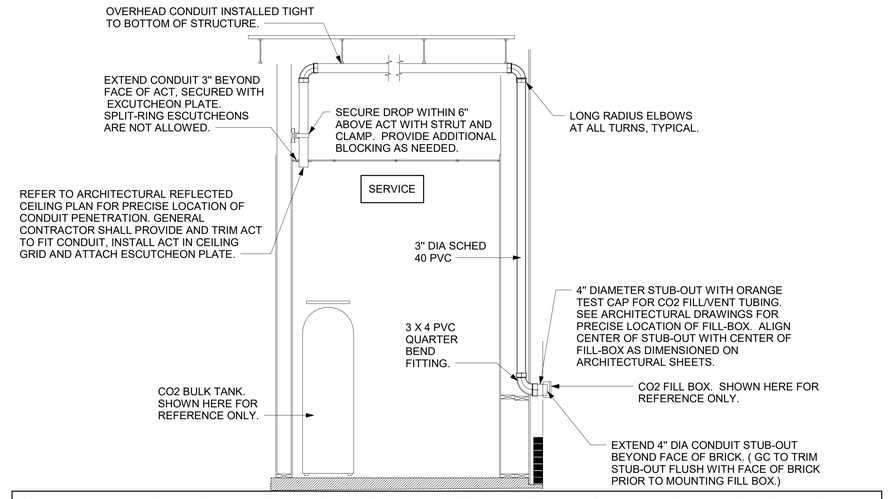
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40-LE-04591-P-201-WATER PIPING PLAN

2. BEVERAGE CONDUIT NOTES

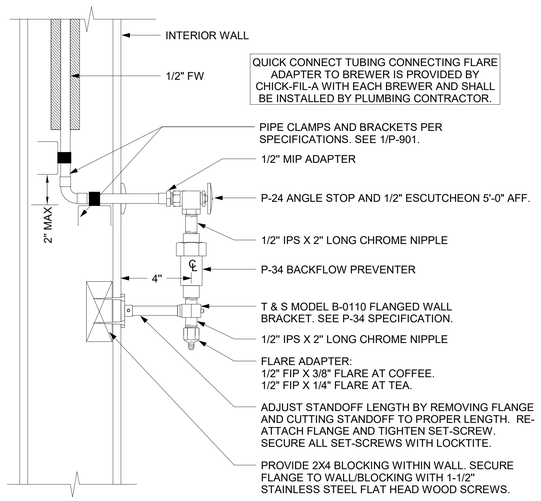
1. ROUTE BEVERAGE SYSTEM PIPING OVERHEAD FROM THE BEVERAGE RACK TO DRINK TOWERS IN SIX (6)-6" DIA SCH 40 PVC DWV CONDUITS. ALL CONDUIT SHALL BE HELD TIGHT TO STRUCTURE AND SUPPORTED WITH THREADED ROD AND CLEVIS HANGERS AT INTERVALS SHOWN IN SPECIFICATIONS FOR HORIZONTAL OVERHEAD PIPING. COORDINATE ROUTING WITH THE GENERAL CONTRACTOR TO AVOID MECHANICAL AND ELECTRICAL SYSTEMS. SEE 1/P-101 AND 1/P-221 FOR BELOW-SLAB BEVERAGE CONDUIT.
2. COORDINATE ROUTING OF ALL CONDUITS WITH HVAC DUCT IN KITCHEN. SEE SHEET M-201 FOR LOCATION OF AC UNITS AND DUCT ROUTING.
3. TURN THE 6" DIA CONDUIT DOWN THROUGH THE CEILING AT THE BEVERAGE RACK AND PROVIDE CHROMED ESCUTCHEONS AT CEILING PENETRATIONS. TERMINATE OPPOSITE END ABOVE CEILING WHERE SHOWN ON PLANS.
4. AT 6" DIA CONDUIT DROP IN DRIVE-THRU, PROVIDE 1/8TH BEND FITTING WITH SHORT PIPE STUB AT BASE OF DROP. CUT STUB AND FITTING FLUSH WITH FINISHED WALL.
5. FOR BEVERAGE CONDUIT DROPS AT WALLS WITH SHEATHING EXTENDED ABOVE THE CEILING, PROVIDE APPROPRIATE FITTING AT UPPER END OF CONDUIT DROP TO EXTEND CONDUIT THROUGH SHEATHING.
6. INSTALL CONTINUOUS CONDUIT FROM CO2 FILL-BOX LOCATION TO BULK CO2 TANK AS SHOWN ON PLANS AND DETAILS. COORDINATE 4" CONDUIT WALL STUB INSTALLATION CLOSELY WITH GENERAL CONTRACTOR AND BRICK MASON. PRIOR TO COVERING UP OF CONDUIT, VERIFY WITH GENERAL CONTRACTOR THE FULL LENGTH OF FILL/VENT TUBING MAY BE INSTALLED AND SUBSEQUENTLY REMOVED FROM CONDUIT. SEE PLAN AND DETAIL #5 THIS SHEET.



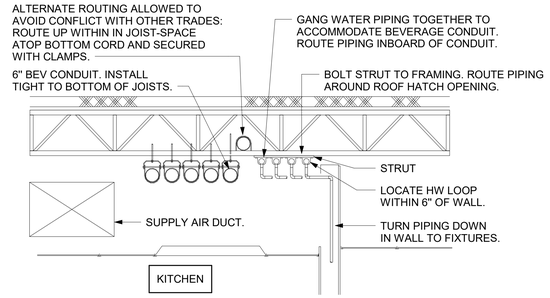
1 BEVERAGE CONDUIT PIPING PLAN
1/4" = 1'-0"



5 CO2 FILL/VENT CONDUIT AND FILL-BOX INSTALLATION
NOT TO SCALE



4 COFFEE & TEA BREWER STOP & BFP
1/4" = 1'-0"



3 SECTION AT WET WALL
NOT TO SCALE

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

Kurzynske & Associates
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Nashville, Tennessee 37214
Telephone: (615) 255-5203

MARK T. KURZYNSKE
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STATE OF NEW JERSEY · MARK T. KURZYNSKE · NO. GE44646 · LICENSED PROFESSIONAL ENGINEER
09/30/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	07/22/2022	DESIGN NOTES

CONSTRUCTION

CONSULTANT PROJECT # 22008.EH.S
DATE 09/30/22
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SHEET
BEVERAGE CONDUIT PLAN

SHEET NUMBER
P-211

BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_PLB.rvt
9/30/2022 11:13:31 AM
40-LE-04591-P-211-BEVERAGE CONDUIT PLAN

NOTE OF SPECIAL IMPORTANCE:

BELOW-SLAB BEVERAGE CONDUIT SHALL BE 6" DIAMETER SCHED 40 DWV SOLID WALL, NO FOAM CORE ALLOWED. USE LONG RADIUS ELBOWS (A.K.A. SWEEPS) ON ALL BEVERAGE CONDUIT. PLEASE NOTE BEVERAGE CONDUIT ROUGH-IN LOCATIONS ARE MEASURED TO THE FRACTION OF AN INCH. CARE MUST BE TAKEN WHEN INSTALLING 6" DIAMETER CONDUIT LOCATED WITHIN A 2X8 WALL. THE MARGIN FOR ERROR IS ONLY 1/16TH INCH.

IMPORTANT NOTE TO INSTALLER

EXERCISE CAUTION WHEN LOCATING ROUGH-INS AT:
-DRIVE THRU AREA
-CUSTOMER WAIT AREA
DO NOT PULL TAPE FROM THE SLAB EDGE AT THESE AREAS WITHOUT COMPENSATING FOR DIFFERENCE IN OFFSETS. NOTE OFFSET AT BACK CORNER OF BUILDING.

FLOOR FIXTURE ELEVATIONS

IMPORTANT: INSTALL THE FLOOR FIXTURE SUCH THAT THE TOP-OF-RIM ELEVATION IS AS FOLLOWS:

FIXTURE	TYPE	RIM ELEVATION
P-10	FLOOR DRAIN	1/2" BFF
P-35	RESTROOM FLOOR DRAIN	1/4" BFF
P-35	MOP SINK DRAIN	7" BFF
P-36	INDIRECT WASTE RECEIVER	1/4" BFF
P-37	FLOOR DRAIN	1/4" BFF

NOTE: FIXTURE RIM/GRATE SHALL SET BE FLUSH WITH ADJACENT FLOOR. SEE ARCHITECTURAL PLANS FOR FLOOR SLOPE AT SLAB DEPRESSION FOR FIXTURES INSTALLED BELOW FINISHED FLOOR ELEVATION. FLOOR FIXTURES NOT LISTED HERE SHALL BE INSTALLED FLAT AND FLUSH WITH FINISHED FLOOR ELEVATION.

MOP SINK NOTE

IMPORTANT: INSTALL FLOOR DRAIN WITH TOP OF DRAIN 0'-7" BFF. COORDINATE WITH GENERAL CONTRACTOR. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.

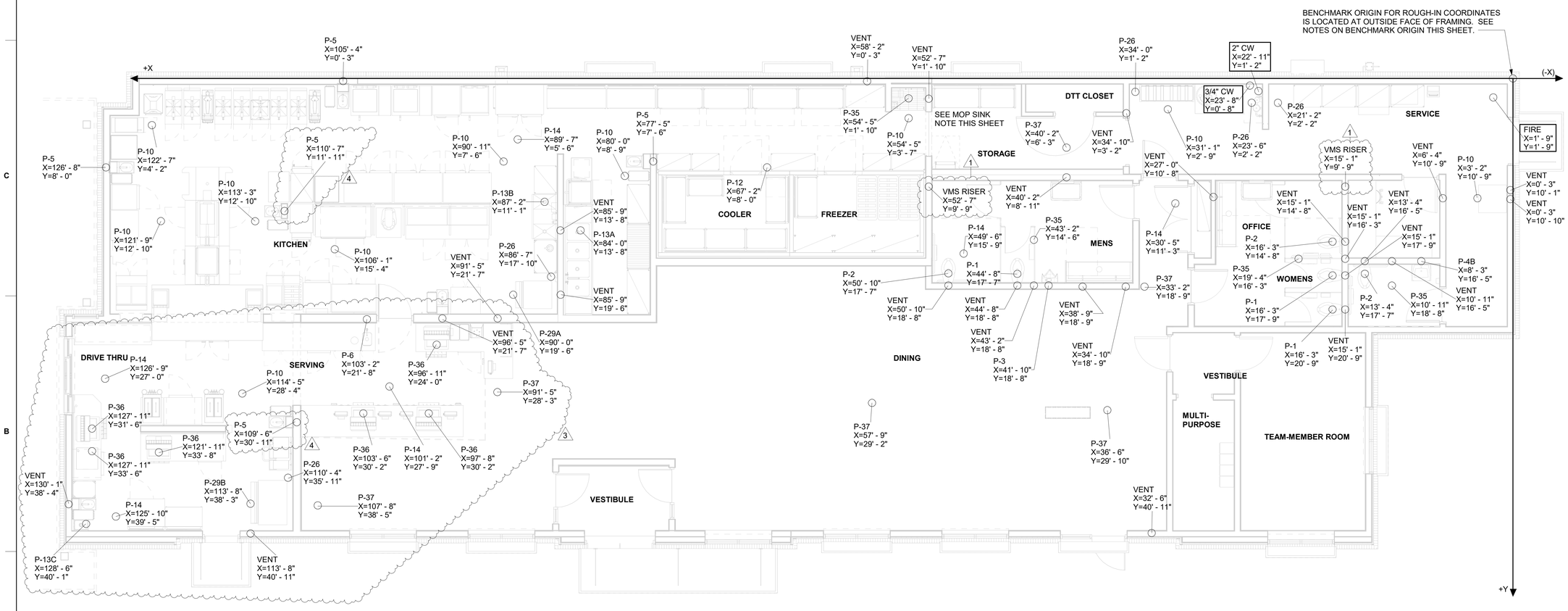
COORDINATE LEGEND

TYPE	EXAMPLE	PIPE COORDINATES
#1	CW X=43'8" Y=14'7"	APPLIES TO WATER PIPING ROUGH-IN PENETRATION ONLY. SEE P-101 FOR CONTINUATION.
#2	VENT X=43'8" Y=14'7"	APPLIES TO DWV PENETRATION ONLY.
#3	6" BEV COND X=43'8" Y=27'3"	APPLIES TO 6" BEVERAGE CONDUIT PENETRATION ONLY.

NOTE: TRAP PRIMER PIPING NOT SHOWN ON THIS PLAN. SEE 1/P-101 FOR TRAP PRIMER LOCATIONS.

NOTES ABOUT (0,0) BENCHMARK ORIGIN

1. THE (X=0, Y=0) BENCHMARK ORIGIN IS LOCATED AT THE OUTSIDE FACE OF FRAMING FOR THE EXTERIOR WALL AT THE CORNER WHERE SHOWN ON THE ADJACENT PLAN.
2. IT IS EXTREMELY IMPORTANT FOR THE PLUMBING INSTALLER TO BECOME COMPLETELY FAMILIAR WITH THE FACE-OF-FRAMING POSITION AND ITS RELATION TO THE FLOOR SLAB CONSTRUCTION PRIOR TO BEGINNING THE UNDERSLAB PLUMBING ROUGH-IN.
3. PLUMBING CONTRACTOR SHALL REVIEW STRUCTURAL DETAIL "TYPICAL SECTION @ EXTERIOR WALL" FOR PRECISE LOCATION OF FACE-OF-FRAMING WITH RESPECT TO THE SLAB INSTALLATION PRIOR TO LOCATING SLAB ROUGH-INS.



1 SLAB ROUGH-IN PLAN
1/4" = 1'-0"

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30349-2998

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Telephone: (615) 255-5203

MARK T. KURZYNSKE
NEW JERSEY LICENSE # GE44646
STATE OF NEW JERSEY · MARK T. KURZYNSKE · NO. GE44646 · LICENSED PROFESSIONAL ENGINEER
11/04/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	03/29/2022	DESIGN NOTES
3	07/22/2022	DESIGN NOTES
4	11/02/2022	HEALTH COMMENTS

CONSTRUCTION

CONSULTANT PROJECT # 22008.EH.S
DATE 11/04/22
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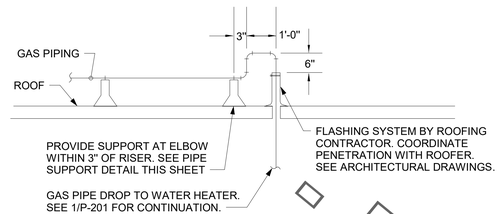
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SHEET
SLAB ROUGH-IN PLAN

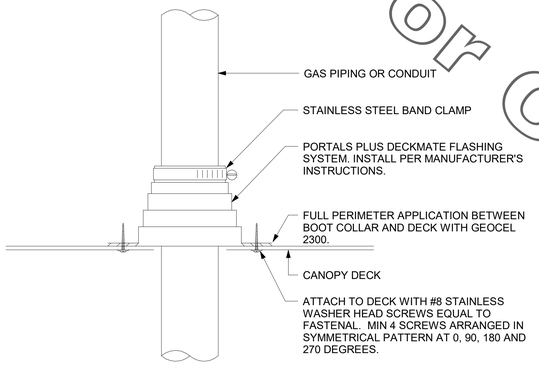
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P-221

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40-LE-04591-P-221-SLAB ROUGH-IN PLAN

OFFSET PIPING A MINIMUM OF 6" ABOVE TOP EDGE OF FLASHING.

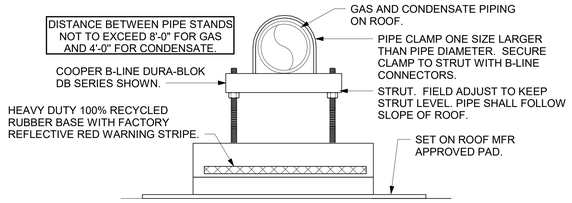


6 GAS PIPE DROP TO WATER HEATER
NOT TO SCALE



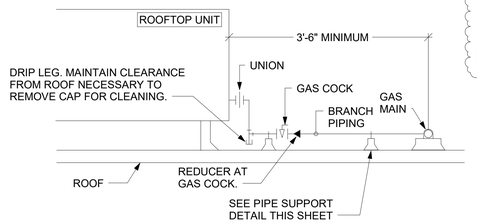
9 WEATHERPROOFING AT CANOPY PENETRATION
NOT TO SCALE

NOTES:
1. NON ADJUSTABLE MODEL DB610 PIPE STAND TO BE USED FOR NON-ELEVATED PIPING INSTALLED FLAT ON ROOF DECK.
2. PROVIDE MODEL DBE 10-8 OR DBE 10-12 OR DBE 10-16 AS NEEDED FOR ELEVATING CONDENSATE PIPING TO MAINTAIN PROPER SLOPE AND FOR GAS PIPING CROSSING OVER CONDENSATE PIPING.
3. ENSURE GAS AND CONDENSATE PIPING DO NOT OBSTRUCT ROOFTOP EQUIPMENT ACCESS OPENINGS. RE-PIPING OF SYSTEMS DUE TO CONFLICTS WITH EQUIPMENT ACCESS OPENINGS SHALL BE DONE AT PLUMBING CONTRACTOR'S EXPENSE.



4 PIPING SUPPORT ON ROOF
NOT TO SCALE

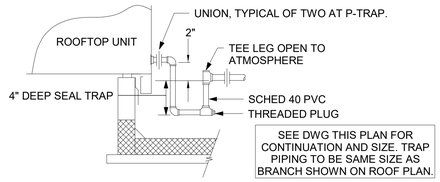
NOTES:
1. INSTALL GAS PIPING SUCH THAT HVAC EQUIPMENT ACCESS PANELS AND/OR DOORS ARE IN NO WAY OBSTRUCTED BY PIPING, VALVES, OR SUPPORTS.
2. TO AVOID CONFLICT WITH AC UNIT ACCESS DOORS, INSTALL GAS PIPING NO CLOSER THAN 3'-6" FROM AC UNIT. (EXCEPT FOR BRANCH LINE CONNECTED TO AC UNIT.)
3. ROUTE BRANCH TAKE-OFF DIRECTLY FROM MAIN TO ROOFTOP UNIT AS SHOWN ON PLAN AND DETAILS WITHOUT LATERAL OFFSETS WHICH MAY OBSTRUCT UNIT ACCESS DOORS.



3 GAS PIPING AT RTU
1/4" = 1'-0"

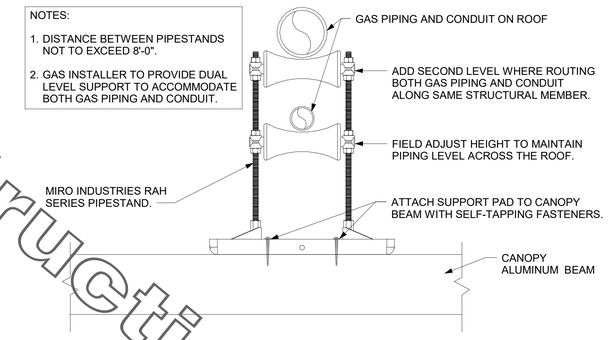
5. GAS CONNECTION SCHEDULE

EQUIPMENT	GAS LOAD
AC#1	400,000 BTUS
AC#2	350,000 BTUS
AC#3	400,000 BTUS
GIH (6 @ 50,000 BTU EA.)	300,000 BTUS
WATER HEATER	125,000 BTUS
TOTAL CONNECTED LOAD	1,575,000 BTUS
REMARKS:	1) EQUIVALENT TO 1,575.0 CFH 2) 7" W.C. DELIVERY PRESSURE 3) DEVELOPED LENGTH: 235 FT (METER TO GIH)



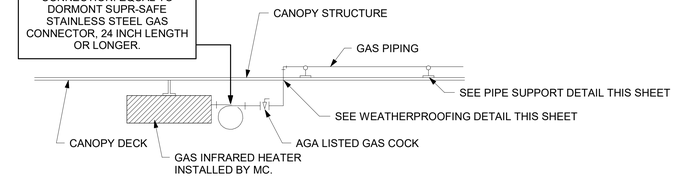
2 CONDENSATE DRAIN PIPING
1/4" = 1'-0"

NOTES:
1. DISTANCE BETWEEN PIPESTANDS NOT TO EXCEED 8'-0".
2. GAS INSTALLER TO PROVIDE DUAL LEVEL SUPPORT TO ACCOMMODATE BOTH GAS PIPING AND CONDUIT.



8 PIPING SUPPORT ON CANOPY
NOT TO SCALE

AGA LISTED FLEXIBLE CSST CONNECTION. EQUAL TO DORMONT SUPR-SAFE STAINLESS STEEL GAS CONNECTOR, 24 INCH LENGTH OR LONGER.



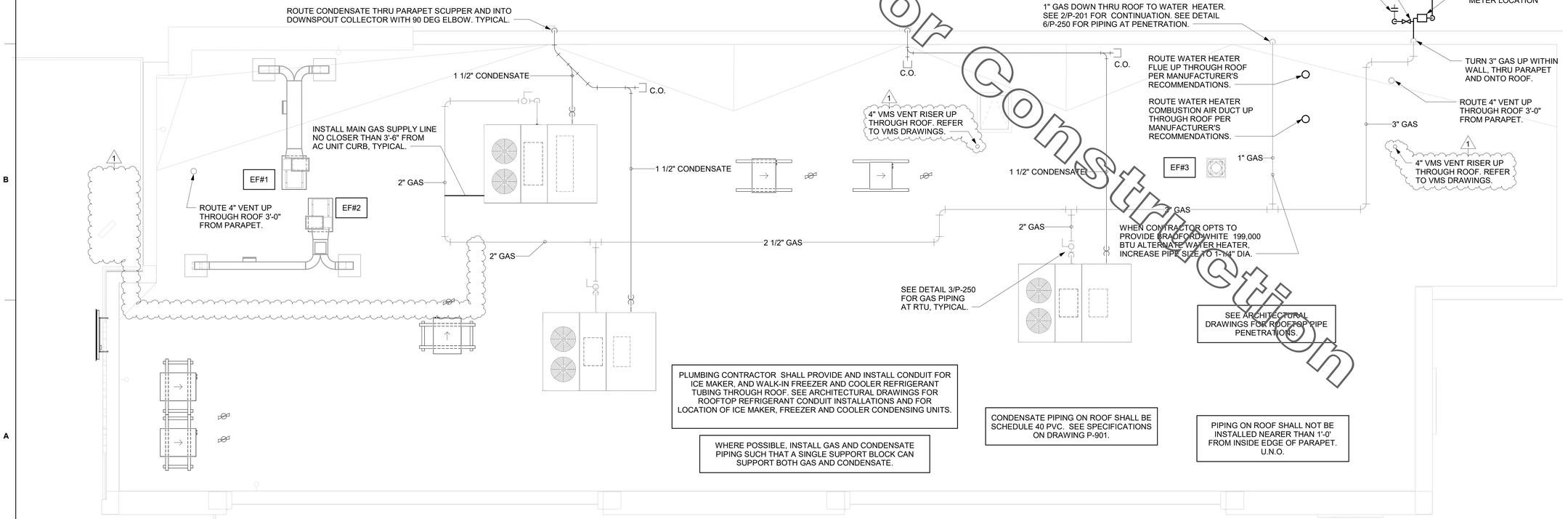
7 GAS CONNECTION AT APPLIANCE
NOT TO SCALE

LEGEND

GIH#1	GAS INFRARED HEATER #1 (TYP.)	B/G	BELOW GRADE
———	NEW GAS PIPING ABOVE GRADE	EC	ELECTRICAL CONTRACTOR
- - -	NEW GAS PIPING BELOW GRADE	MC	MECHANICAL CONTRACTOR

CANOPY GENERAL NOTES

1. COORDINATE NEW WORK WITH EXISTING CONDUIT, STRUCTURE, AND PIPING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
2. COORDINATE LOCATION AND RESPONSIBILITIES FOR UNDERGROUND PIPING AND ASSOCIATED TRENCHING WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.
3. EXPOSED GAS PIPING SHALL BE PAINTED BY GENERAL CONTRACTOR.
4. ACTUAL NUMBER OF GAS INFRARED HEATERS WILL BE DETERMINED BY SITE-SPECIFIC CANOPY LAYOUT AND EQUIPMENT LOCATIONS, AS INDICATED ON ARCHITECTURAL PLANS.



1 ROOF PIPING PLAN
1/4" = 1'-0"

- For Construction

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04/06/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	03/29/22	DESIGN NOTES

CONSULTANT PROJECT # 22008.EH.S
DATE 01/24/22
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SHEET
ROOF PLAN AND DETAILS

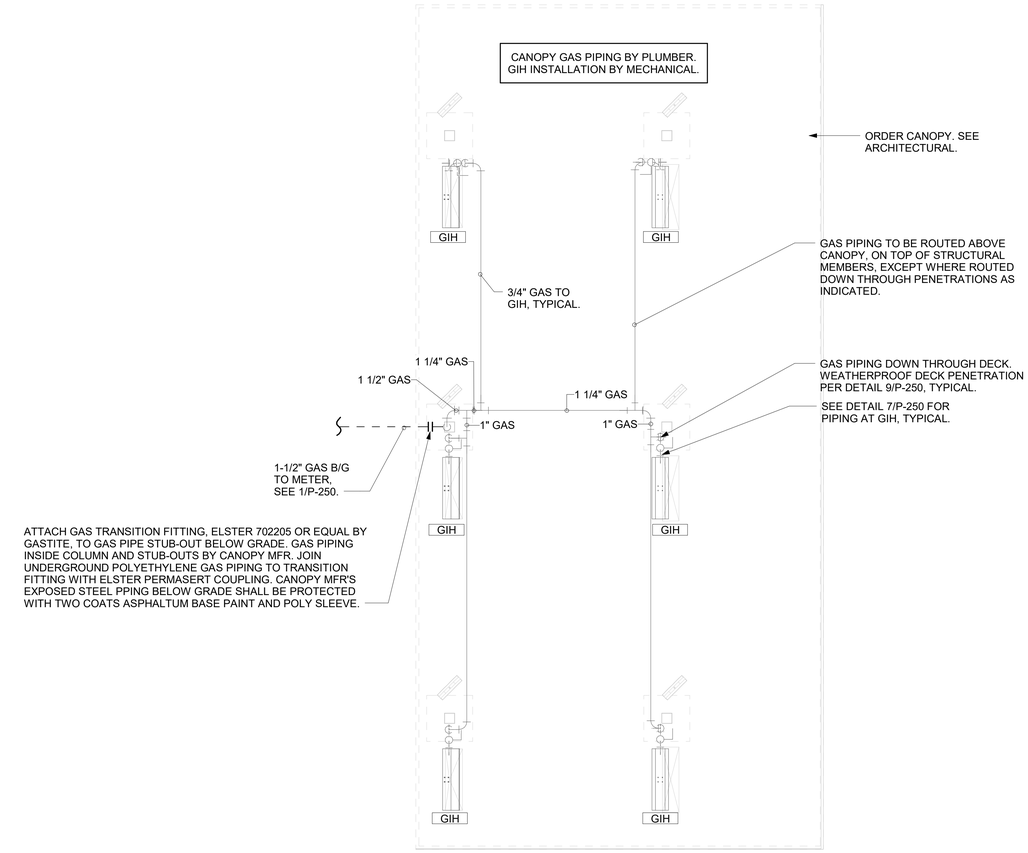
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40-LE-04591-P-250-ROOF PLAN AND DETAILS

LEGEND			
GIH#1	GAS INFRARED HEATER #1 (TYP.)	B/G	BELOW GRADE
———	NEW GAS PIPING ABOVE GRADE	EC	ELECTRICAL CONTRACTOR
— — —	NEW GAS PIPING BELOW GRADE	MC	MECHANICAL CONTRACTOR

CANOPY GENERAL NOTES

1. COORDINATE NEW WORK WITH EXISTING CONDUIT, STRUCTURE, AND PIPING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
2. COORDINATE LOCATION AND RESPONSIBILITIES FOR UNDERGROUND PIPING AND ASSOCIATED TRENCHING WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.
3. EXPOSED GAS PIPING SHALL BE PAINTED BY GENERAL CONTRACTOR.
4. ACTUAL NUMBER OF GAS INFRARED HEATERS WILL BE DETERMINED BY SITE-SPECIFIC CANOPY LAYOUT AND EQUIPMENT LOCATIONS, AS INDICATED ON ARCHITECTURAL PLANS.



1 ORDER CANOPY PIPING PLAN
1/4" = 1'-0"

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01/24/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

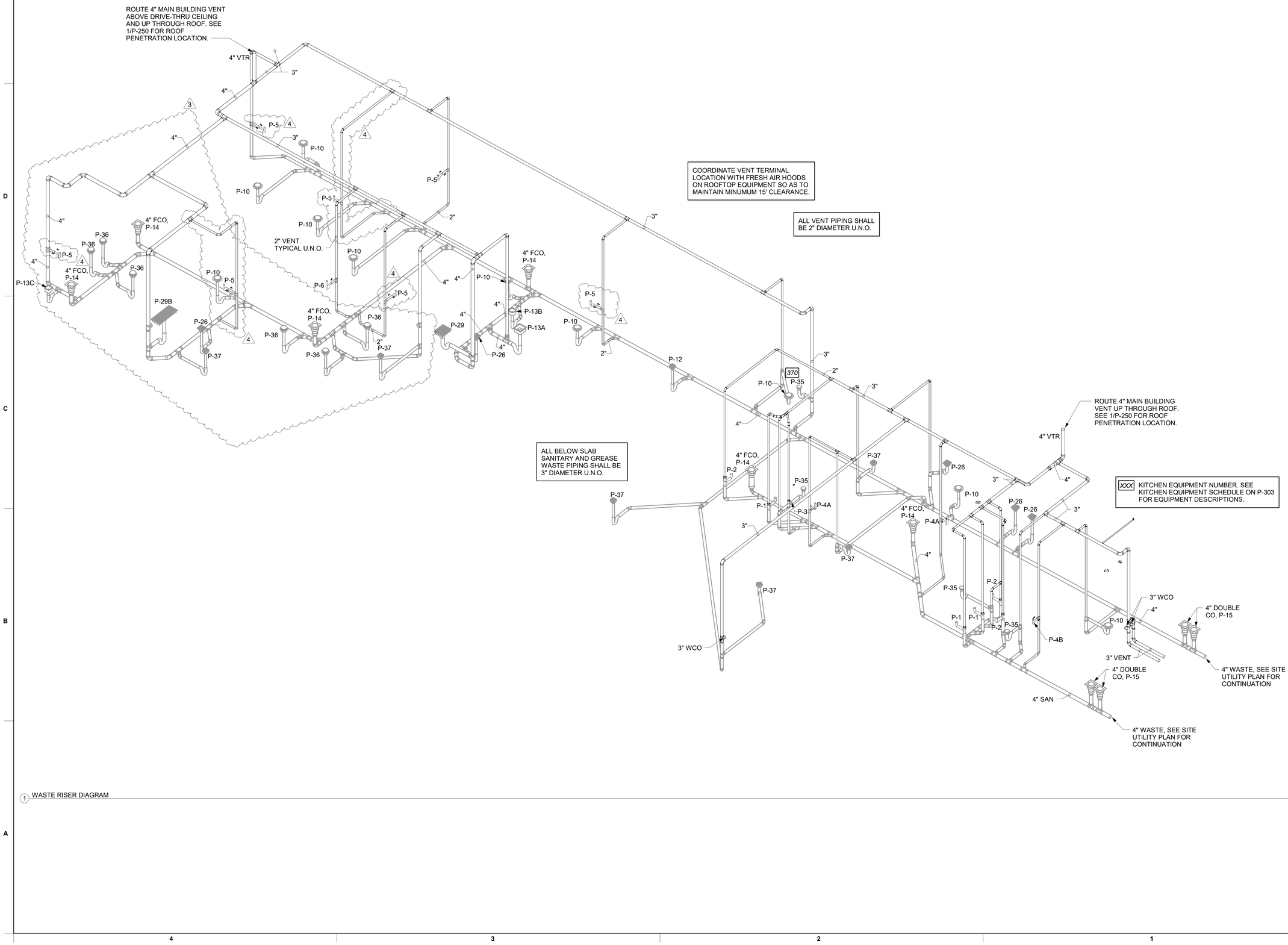
CONSULTANT PROJECT # 22008.EH.S
DATE 01/24/22
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SHEET
CANOPY PLAN AND DETAILS

SHEET NUMBER
P-251

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1/24/2022 11:37:19 AM
40-LE-04591-P-251-CANOPY PLAN AND DETAILS



1 WASTE RISER DIAGRAM

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11/04/22

CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
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NO.	DATE	DESCRIPTION
3	07/22/2022	DESIGN NOTES
4	11/02/2022	HEALTH COMMENTS

CONSTRUCTION

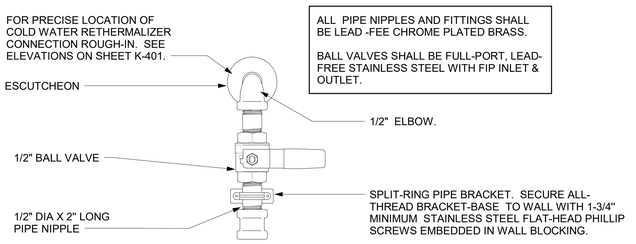
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DATE 11/04/22
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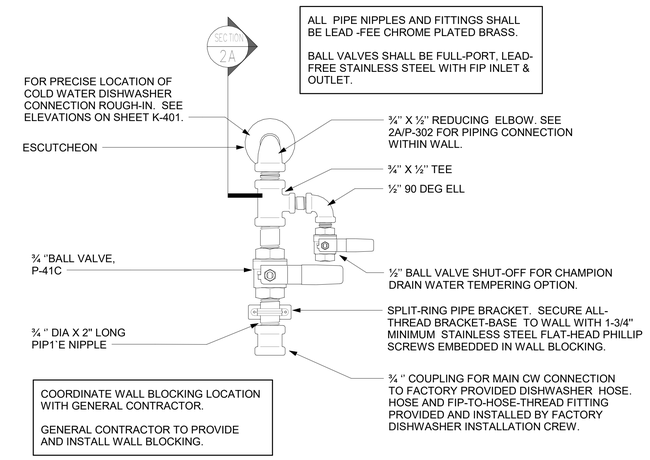
SHEET
DWV RISER DIAGRAM

SHEET NUMBER
P-301

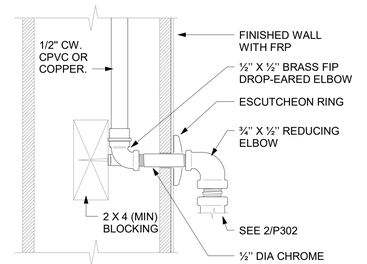
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40-LE-04591-P-301-DWV RISER DIAGRAM



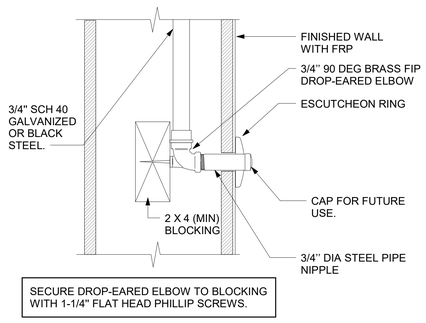
3 RETHERMALIZER SUPPLY VALVE
NOT TO SCALE



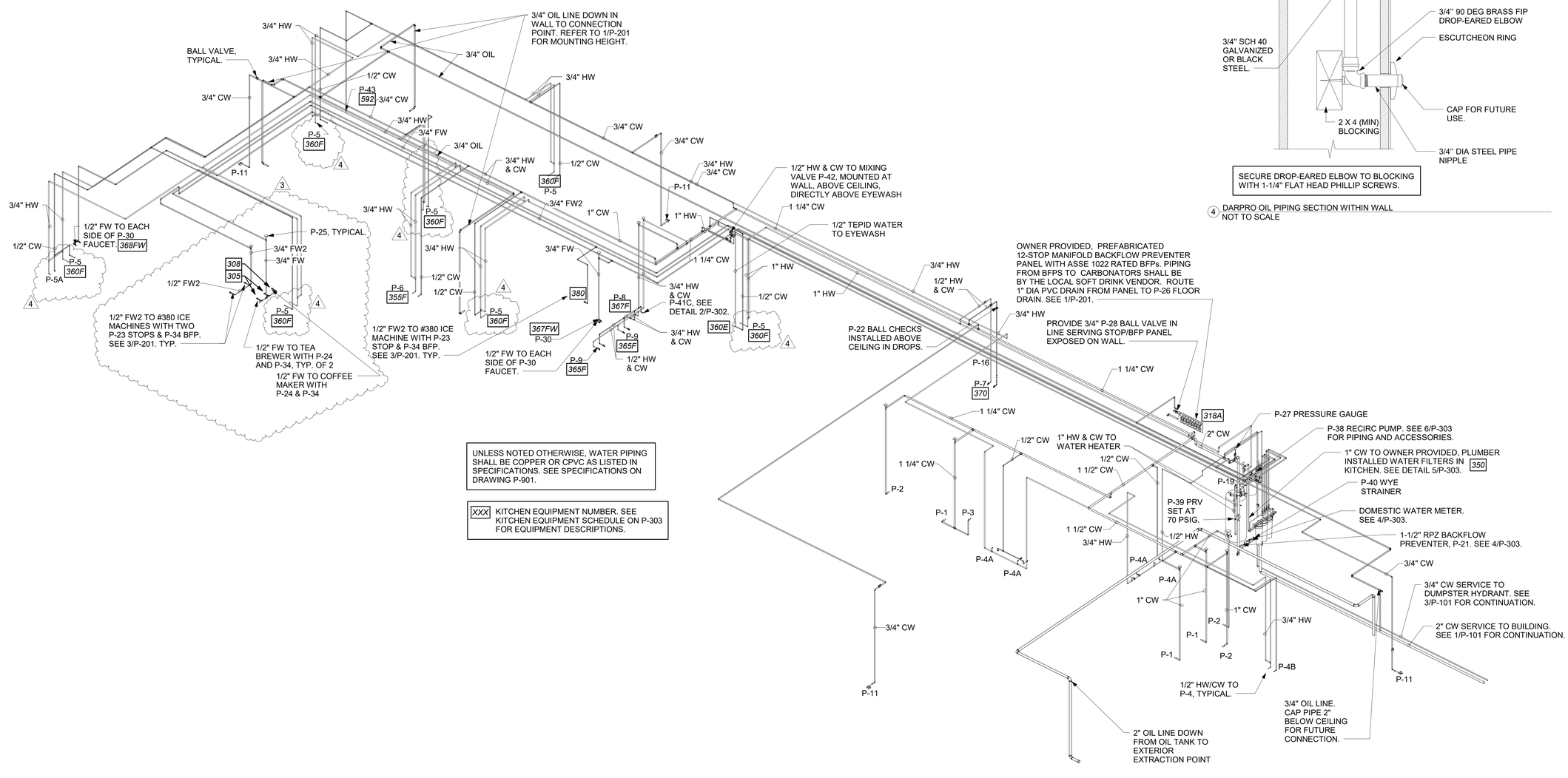
2 DISHWASHER SUPPLY VALVE ASSEMBLY-CHAMPION
NOT TO SCALE



2A SECTION AT PIPNG WITHIN WALL
NOT TO SCALE



4 DARPRO OIL PIPING SECTION WITHIN WALL
NOT TO SCALE



1 WATER RISER DIAGRAM

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Nashville, Tennessee 37214
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11/04/22

CHICK-FIL-A
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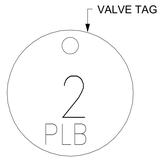
SHEET
WATER RISER DIAGRAM

SHEET NUMBER
P-302

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11/4/2022 9:28:18 AM
40-LE-04591-P-302-WATER RISER DIAGRAM

VALVE TAG LEGEND	
VALVE	VALVE POSITION
① MAIN WATER SHUT-OFF	NORMALLY OPEN
② MAIN DRAIN	NORMALLY CLOSED
③ ACCESSORY SHUT-OFF	NORMALLY OPEN
④ WATER FILTER INLET	NORMALLY OPEN
⑤ RECIRC PUMP ISOLATION VALVE	NORMALLY OPEN
⑥ WATER HEATER INLET	NORMALLY OPEN
⑦ RESTROOM & KITCHEN COLD WATER	NORMALLY OPEN
⑧ POST HYDRANT COLD WATER	NORMALLY OPEN
⑨ GAS TO WATER HEATER	NORMALLY OPEN
⑩ WATER HEATER OUTLET	NORMALLY OPEN
NOTE: HANDLE IN-LINE WITH PIPING = VALVE OPEN	

LAMINATE VALVE TAG LEGEND AND MOUNT PERMANENTLY WHERE SHOWN ON WATER HEATER DETAIL IN AN ALUMINUM FRAME EQUAL TO SETON #68624.



② VALVE TAG SYMBOL AS SHOWN ON DETAIL 6/P-303. PROVIDE 1-1/2" ROUND BRASS VALVE TAG WITH 1/2" HIGH BLACK FILLED LETTERING. EACH TAG SHALL INDICATE VALVE NUMBER AND WILL ALSO HAVE "PLBG" STAMPED ON THE TAG IN 1/4" HIGH BLACK FILLED LETTERING EQUAL TO SETON #M4506. HANG WITH BRASS JACK CHAIN ON VALVE HANDLE.

③ VALVE TAGS AND LEGEND
NOT TO SCALE

2. KITCHEN EQUIPMENT SCHEDULE

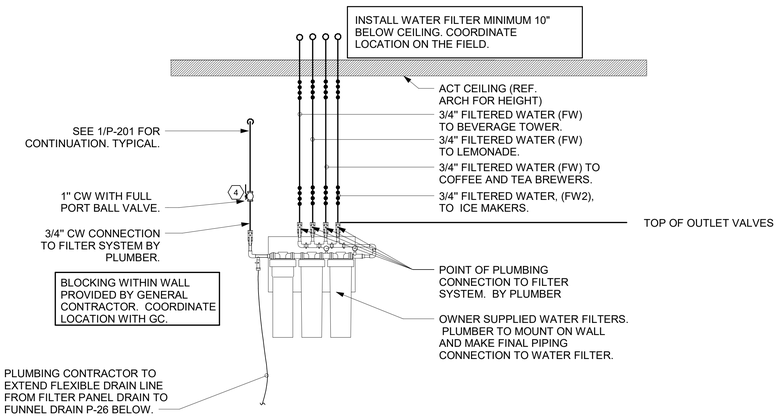
TAG	DESCRIPTION	FW	FW2	CW	HW	WASTE	ROUGH-IN
305	TEA BREWER	1/2"	X	X	X	X	P-24, SEE K-611 & 6/P-211
308	COFFEE MAKER	1/2"	X	X	X	X	P-24, SEE K-611 & 6/P-211
318A	CARBONATOR BFP PANEL	3/4"	X	X	X	X	P-28, SEE K-611
350	WATER FILTER PANEL	(3) 3/4"	3/4"	3/4"	X	X	SEE DET 5/P-303
360E	EMERGENCY EYEWASH STATION	X	X	1/2"*	1/2"*	X	*1/2" TEPID WATER FROM P-42, SEE K-611 & 1/P-201
363	DISHWASHER	X	X	1/2"	X	INDIRECT TO P-13A	P-41, SEE K-611 & 1/P-201
365	POT SINK	X	X	(2) 1/2"	(2) 1/2"	INDIRECT	TWO #365F FAUCETS, P-9 SEE K-611
367	VEGETABLE PREP SINK	X	X	1/2"	1/2"	INDIRECT	#367F FAUCET, P-8 SEE K-611
367FW	FILTERED WATER FAUCET	(2) 1/2"	X	X	X	X	P-30 48" AFF.
368FW	FILTERED WATER FAUCET	(2) 1/2"	X	X	X	X	P-30 48" AFF.
370	MOP SINK	X	X	1/2"	1/2"	3" P-35	P-7 SEE K-611
380	ICE MAKER	X	(2) 1/2"	X	X	INDIRECT	P-23 SEE K-611 & 3/P-201
381	ICE BIN (1 HEAD)	X	1/2"	X	X	INDIRECT	P-23 SEE K-611 & 3/P-201
384	ICE BIN (2 HEAD)	X	1/2"	X	X	INDIRECT	P-23 SEE K-611 & 3/P-201
592	RETHERMALIZER	X	X	1/2"	X	INDIRECT	SEE DET 3/P-302

1. FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE	FW	FW2	CW	HW	WASTE
P-1	WATER CLOSET - FLOOR MOUNT (1.28 GPF)	X	X	1"	X	3"
P-2	WATER CLOSET - ADA FLOOR MOUNT (1.28 GPF)	X	X	1"	X	3"
P-3	URINAL - ADA WALL HUNG (0.125 GPF)	X	X	3/4"	X	2"
P-4A	LAVATORY - ADA COUNTERTOP (0.50 GPM)	X	X	1/2"	1/2"	1-1/4"
P-4B	LAVATORY - ADA WALL-MOUNTED (0.50 GPM)	X	X	1/2"	1/2"	1-1/4"
P-5	KITCHEN HAND SINK - WALL HUNG (1.0 GPM)	X	X	1/2"	1/2"	1-1/2"
P-5A	KITCHEN DUMP SINK - WALL HUNG (1.0 GPM)	X	X	1/2"	1/2"	1-1/2"
P-6	SINGLE COMP SINK - COUNTERTOP (1.0 GPM)	X	X	1/2"	1/2"	1-1/2"
P-7	MOP SINK	X	X	1/2"	1/2"	3"
P-8	VEGETABLE PREP SINK (0.65 GPM SPRAYER)	X	X	1/2"	1/2"	(2) 1-1/2"
P-9	POT SINK (0.65 GPM SPRAYER)	X	X	(2) 1/2"	(2) 1/2"	(4) 1-1/2"
P-10	FLOOR DRAIN (ROUND TOP)	X	X	X	X	3"
P-11	WALL HYDRANT (NON FREEZE)	X	X	3/4"	X	X
P-12	FUNNEL DRAIN (3")	X	X	X	X	3"
P-13A	FLOOR SINK (4") 12" TOP	X	X	X	X	4"
P-13B	FLOOR SINK (3") 8" TOP	X	X	X	X	3"
P-13C	FLOOR SINK (3") 8" TOP	X	X	X	X	3"
P-14	CLEANOUT INSIDE BUILDING	X	X	X	X	SEE PLAN
P-15	CLEANOUT OUTSIDE BUILDING	X	X	X	X	SEE PLAN
P-16	3-WAY VALVE/ VACUUM BREAKER	X	X	3/4"	3/4"	X
P-17	VACUUM RELIEF VALVE	X	X	3/4"	X	X
P-18	EXPANSION TANK	X	X	3/4"	X	X
P-19	WATER HEATER	X	X	1"	1"	X
P-20	THERMOMETER	X	X	X	1/2"	X
P-21	BACKFLOW PREVENTER	X	X	1-1/2"	X	X
P-22	MOP SINK CHECK VALVES	X	X	1/2"	1/2"	X
P-23	UTILITY CONNECTION (ICE MAKER)	X	1/2"	X	X	X
P-24	UTILITY CONNECTION (COFFEE & TEA)	1/2"	X	X	X	X
P-25	SHOCK ABSORBER	1/2"	1/2" & 3/4"	1/2"	1/2"	X
P-26	FUNNEL DRAIN	X	X	X	X	3"
P-26A	TRAP SEAL PROTECTOR	X	X	X	X	3"
P-27	WATER PRESSURE GAUGE	X	X	1/4"	X	X
P-28	BALL VALVE-CARBONATOR STOP/BFP PANEL	3/4"	X	X	X	X
P-29	ICE MACHINE TRENCH DRAIN	X	X	X	X	4"
P-29B	ICE MACHINE TRENCH DRAIN (36")	X	X	X	X	4"
P-30	FILTERED WATER FAUCET	(2) 1/2"	X	X	X	X
P-31	DUMPSTER POST HYDRANT	X	X	3/4"	X	X
P-32	DUMPSTER DRAIN	X	X	X	X	3"
P-33	TRAP PRIMER (MECHANICAL TYPE)	X	X	1/2"	X	X
P-34	DISPENSER BACKFLOW PREVENTER	1/2"	X	X	X	X
P-35	FLOOR DRAIN	X	X	X	X	3"
P-36	BEVERAGE TOWER INDIRECT RECEIVER	X	X	X	X	3"
P-37	FLOOR DRAIN (SQUARE TOP)	X	X	X	X	3"
P-38	HOT WATER CIRCULATING PUMP	X	X	X	1/2"	X
P-39	PRESSURE REDUCING VALVE	X	X	2"	X	X
P-40	WYE STRAINER	X	X	2"	X	X
P-41C	DISHWASHER SUPPLY VALVES - CHAMPION	X	X	3/4"	X	X
P-42	EMERGENCY EYEWASH MIXING VALVE	X	X	1/2"	1/2"	X
P-43	RETHERMALIZER SUPPLY VALVE	X	X	1/2"	X	X

NOTES: ① REFER TO FOOD SERVICE DRAWINGS FOR KITCHEN EQUIPMENT INSTALLATION AND HOOK-UP RESPONSIBILITIES.

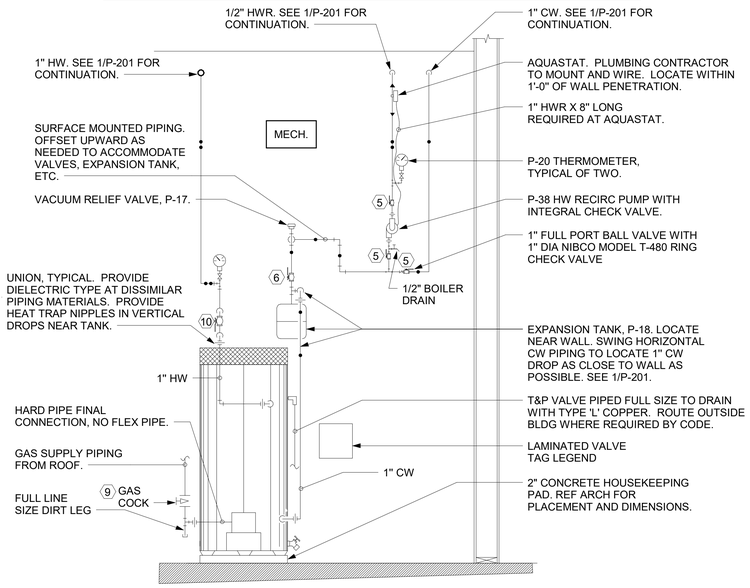
② DO NOT MANIFOLD POT OR PREP SINK DRAINS TOGETHER UNLESS ALLOWED BY LOCAL AUTHORITY.



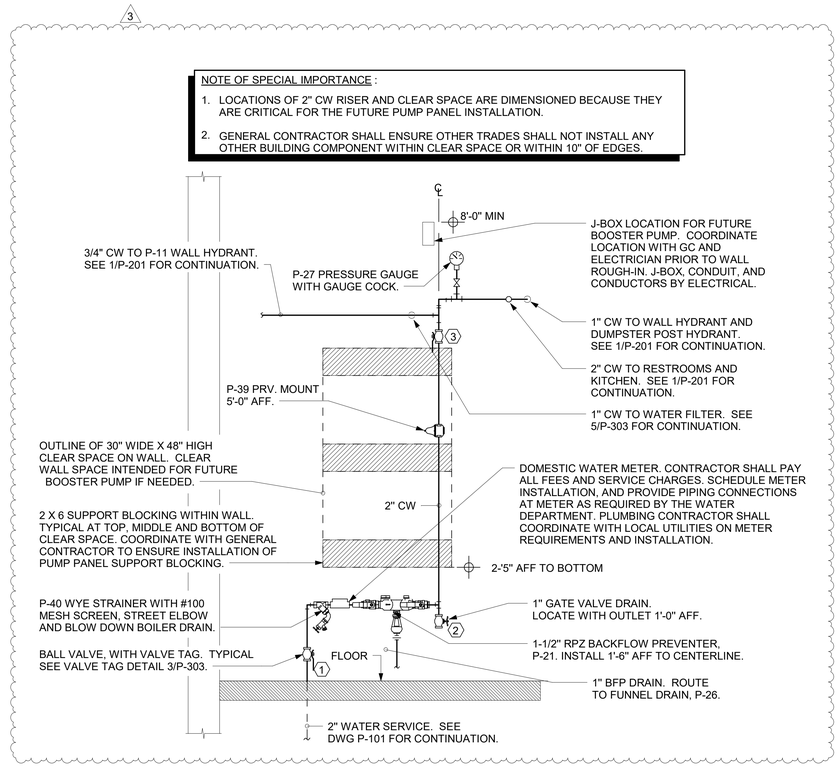
⑤ PIPING AT WATER FILTER
NOT TO SCALE

NOTES TO WATER HEATER INSTALLER:

1. POSITION VALVES AND TRIM IN MECH ROOM SUCH THAT VALVES AND TRIM ARE UNOBSTRUCTED TO VIEW AND SO THAT ACCESS FOR OPERATION OR REPAIR IS POSSIBLE WITHOUT USE OF STEP LADDERS OR NEED TO DISASSEMBLE ANY COMPONENTS.
2. VENT HEATER UP THRU MECH ROOM ROOF AND PROVIDE FRESH AIR PIPING PER MANUFACTURER'S RECOMMENDATIONS.



⑥ PIPING AT WATER HEATER
NOT TO SCALE



④ PIPING AT WATER SERVICE ENTRANCE IN MECHANICAL ROOM
NOT TO SCALE

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

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MARK T. KURZYNSKE
NEW JERSEY LICENSE # GE44646
STATE OF NEW JERSEY · MARK T. KURZYNSKE · NO. GE44646 · LICENSED PROFESSIONAL ENGINEER
09/30/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	07/22/2022	DESIGN NOTES

CONSTRUCTION

CONSULTANT PROJECT # 22008.EH.S
DATE 09/30/22
DRAWN BY CAC

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SHEET
DETAILS AND SCHEDULES

SHEET NUMBER
P-303

BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_PLB.rvt
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1. SECTION C15100 - PLUMBING SPECIFICATIONS

PART I - PRODUCTS (C15100)

1.01 GENERAL REQUIREMENTS

A. THE FOLLOWING SPECIFICATIONS ARE THE MINIMUM REQUIREMENT. WHERE FEDERAL, STATE OR LOCAL REQUIREMENTS DIFFER FROM THIS SPECIFICATION, THE MORE STRINGENT OF THE TWO SHALL BE FOLLOWED.

1.02 SCOPE

A. HOT AND COLD POTABLE WATER PIPING ABOVE SLAB SHALL BE TYPE 'L' HARD DRAWN COPPER OR FLOWGUARD GOLD CPVC AS MANUFACTURED BY NIBCO OR CHARLOTTE PIPE & FOUNDRY AND MEETING ASTM D-2846. FILTERED WATER PIPING SHALL BE FLOWGUARD GOLD CPVC. HOT AND COLD PIPING WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE COPPER.

B. POTABLE WATER PIPING BELOW SLAB AND OUTSIDE BELOW GRADE SHALL BE TYPE "K" SOFT ANNEALED SEAMLESS. NO JOINTS SHALL BE ALLOWED BELOW SLAB. POTABLE WATER PIPING BELOW GRADE SHALL BE SLEEVED FOR ITS ENTIRE LENGTH WITH POLY SLEEVE AS MADE BY IPS WATER-TITE. ALL SLAB PENETRATIONS SHALL BE SLEEVED WITH POLY SLEEVE TO PROTECT PIPING FROM CORROSION BY CONCRETE.

C. COPPER PIPE FITTINGS SHALL BE WROUGHT COPPER SWEEP PATTERN FITTINGS SOLDERED USING 95-5 LEAD-FREE SOLDER MEETING ASTM B-32 OR BRAZED WITH SIL-FOS. SOLDER FLUXES SHALL MEET ASTM B-813 AND SHALL BE LEAD FREE. BRAZING FLUXES SHALL MEET AWS FB3-A OR FB3-C.

D. WATER PIPING DOWNSTREAM OF SOFT DRINK CARBONATORS SHALL BE PROVIDED AND INSTALLED BY LOCAL SOFT DRINK VENDOR.

E. CPVC FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE MEETING ASTM D-2846 WITH CEMENTS MEETING ASTM F-493 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. FOR CPVC PIPING INSTALLATION, WALL STUBS AT FIXTURES AND EQUIPMENT SHALL BE COPPER AND SHALL BE SERIES 630-C. CPVC-TO-COPPER STUB OUT ELBOWS BY SIOUX CHIEF.

F. NIPPLES, ELBOWS, AND OTHER ACCESSORY FITTINGS REQUIRED TO COMPLETE ANY WATER PIPING CONNECTION SHALL BE BRASS OR OF SIMILAR TYPE METAL AS THE FITTING TO WHICH IT IS CONNECTED. GALVANIZED FITTINGS ARE PROHIBITED. (EXCEPTION: GALVANIZED HEAT TRAP WATER HEATER NIPPLES IF INTERNALLY PROTECTED WITH TEFLON OR POLYMER CORROSION-RESISTANT COATING.)

G. ALL HVAC CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-1784, D-1785 AND D-2665.

H. U.N.O., ALL SANITARY WASTE, VENT, STORM DRAINAGE PIPING AND FITTINGS INSIDE THE BUILDING, ABOVE AND BELOW GRADE, AND FOR ROOFTOP CONDENSATE, SHALL BE SOLID WALL SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-2665 AND D-2949. FOAM CORE AND/OR CELLULAR CORE PVC PIPING SHALL NOT BE ALLOWED. PVC PIPING OUTSIDE THE BUILDING, BELOW GRADE, SHALL BE TYPE SDR-35 MEETING ASTM D-3034, U.N.O.

I. DWV PIPE AND FITTINGS WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE SERVICE WEIGHT HUBLESS CAST IRON WITH SLEEVE, SHIELD, AND DRAWBAND JOINTS MEETING ASTM A-888 AND ASTM C-564.

J. PVC-DWV FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE INSIDE AND UNDERSLAB MEETING ASTM D-2665, D-3311 AND F-186. CEMENTS SHALL MEET ASTM D-2564 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. EXTERIOR PIPING JOINTS SHALL BE NEOPRENE PUSH-ON TYPE.

K. PROVIDE 1" THICK PIPE INSULATION FOR ALL ABOVE SLAB HOT AND TEMPERED WATER PIPING. PROVIDE 1/2" THICK INSULATION FOR ALL ABOVE SLAB COLD WATER, FILTERED WATER, CONDENSATE PIPING, AND HORIZONTAL RAIN WATER CONDUCTORS INSIDE THE BUILDING. PIPING INSULATION SHALL BE KNAUF 1000F 25/50 FIBERGLASS PIPE COVERING, WHITE KRAFT PAPER VAPOR BARRIER (.02 PERMS) BONDED TO ALUMINUM FOIL AND REINFORCED WITH GLASS FIBERS. MAXIMUM THERMAL CONDUCTIVITY OF 0.23 AT 75F. LONGITUDINAL LAP SHALL BE SELF SEALING. INSULATION FOR WALK-IN COOLER/FREEZER CONDENSATE PIPING SHALL BE ARMACELL A/P ARMAFLEX WITH MINIMUM 3/4" WALL THICKNESS.

L. PIPE INSULATION AND COVERINGS SHALL HAVE A RATING OF NOT GREATER THAN 25 FLAME SPREAD, NO HIGHER THAN 50 SMOKE DEVELOPED, AND NO MORE THAN 50 FUEL CONTRIBUTED. THE ONLY EXCEPTION SHALL BE ARMAFLEX AP, WHEN SPECIFIED, WHICH SHALL NOT EXCEED 100 SMOKE DEVELOPED.

M. A PVC 25/50 PRE-FORMED COVER SHALL BE PROVIDED AT ALL INSULATED PIPING FITTINGS EQUAL TO PROTO PVC CORP LOSMOKE, 800-875-7768.

N. ALL ABOVE GRADE NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL MEETING ASTM A53 WITH SCREWED OR WELDED FITTINGS AND GASKET TYPE UNIONS AND FLANGES. FOR SCREWED PIPING, PIPING SHALL BE JOINED WITH BLACK 150 POUND MALLEABLE IRON SCREWED FITTINGS AS ALLOWED BY LOCAL AUTHORITY. CONTRACTOR SHALL VERIFY THE NEED FOR WELDED PIPING AS REQUIRED BY THE LOCAL GAS CODE AND/OR APPLICABLE LOCAL ORDINANCES AND AMENDMENTS.

O. ALL BELOW GRADE NATURAL GAS PIPING SHALL BE MEDIUM DENSITY POLYETHYLENE (PE) MEETING ASTM D2513 AS MANUFACTURED BY GASTITE WITH JOINING SYSTEM AS MANUFACTURED BY CON-STAB. TRANSITIONS FROM ABOVE GRADE RIDGID PIPING TO PE BELOW GRADE PIPING SHALL BE MADE WITH ANODE-LESS RISER ASSEMBLY AS MANUFACTURED BY CON-STAB.

P. EXPOSED SUPPORTS AND ATTACHMENTS SHALL BE STAINLESS STEEL, CHROME OR CHROME PLATED. GALVANIZED ATTACHMENTS WILL NOT BE ACCEPTED.

Q. USE MATERIALS SPECIFIED ON THESE PLANS. SUBSTITUTIONS ARE ALLOWED ONLY IF SPECIFIED MATERIALS ARE UNAVAILABLE. PRODUCT SUBSTITUTIONS WILL NOT BE ACCEPTED WITHOUT PRIOR APPROVAL. ALL WATER PIPING, FITTINGS, FIXTURES AND ACCESSORIES SHALL BE CERTIFIED LEAD FREE AS DEFINED IN, AND PER THE INTENT OF, THE "REDUCTION IN LEAD IN DRINKING WATER ACT".

PART II - EXECUTION (C15100)

2.01 TRENCHING (C15100)

A. EXCAVATION, BACKFILLING, AND TRENCH WORK SHALL BE DONE IN ACCORDANCE WITH LATEST O.S.H.A. AND APPLICABLE SAFETY STANDARDS.

B. PROVIDE NECESSARY SHORING AND CLEANING TO KEEP TRENCHES IN GOOD WORKING CONDITION, INCLUDING PUMPING OUT WATER.

C. IN MOSTLY ROCK MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH CRUSHED LIMESTONE. GRAVEL SHALL BE REMOVED FROM UNDER PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.

D. IN MOSTLY EARTH OR SAND MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH FINE SAND OR GRAVEL. TRENCH BOTTOM SHALL BE REMOVED AT PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.

E. BACKFILLING AND TAMPING SHALL BE CAREFULLY DONE BY HAND SIMULTANEOUSLY ALONG BOTH SIDES OF THE PIPE USING ROCK FREE EARTH, CRUSHED STONE OR SAND UNTIL THE PIPE IS COVERED TO A DEPTH OF AT LEAST 12". BACKFILL SHALL BE ACCOMPLISHED IN SUCCESSIVE 6" LAYERS. THE REST OF THE FILL-UP TO THE TOPSOIL LAYER MAY BE GRAVEL OR ROCK FREE EARTH.

F. ACCEPTABLE SOIL MATERIALS FOR BACKFILL AND FILL SHALL BE FREE OF CLAY, ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS AND OTHER DELETERIOUS MATTER HAVING A PLASTICITY INDEX LESS THAN 30. BACKFILL SHALL BE ACCOMPLISHED IN LAYERS OF NOT MORE THAN 6" AND EACH LAYER SHALL BE COMPACTED. THE LAST 12" OF BACKFILL SHALL BE ROCK FREE TOPSOIL.

G. SURFACE SHALL BE RESTORED TO ITS ORIGINAL CONDITION.

2.02 INSTALLATION (C15100)

A. WATER PIPING IN EXTERIOR WALL SHALL BE INSTALLED ON THE HEATED SIDE OF WALL INSULATION.

B. EXPOSED HOT AND COLD WATER TRIM FITTINGS AND ACCESSORIES IN FINISHED AREAS SHALL BE CHROME FINISHED.

C. ACCEPTABLE METHODS OF PIPE SUPPORT WITHIN WALLS SHALL BE THE SUMNER SYSTEM, POSIFIX, STAKFIX, PIPEFIX, HOLDRITE OR CHANNEL.

D. PROVIDE J.R. SMITH OR APPROVED EQUAL SHOCK ABSORBERS #5005 THRU 5050 SIZE AS RECOMMENDED BY MANUFACTURER INSTALLED ON HOT AND COLD WATER BRANCH LINES CONTAINING SINGLE LEVER FAUCETS, FLUSH VALVES OR EQUIPMENT WITH QUICK CLOSING VALVES BETWEEN THE LAST TWO FIXTURES AS SHOWN ON THE CONTRACT DRAWINGS. SHOCK ABSORBERS SERVICING FIXTURES WITH FLUSH VALVES SHALL BE SECURELY ANCHORED IN THEIR VERTICAL POSITION.

E. SANITARY WASTE LINES SHALL BE UNIFORMLY GRADED TO ELEVATIONS SHOWN. IF NO ELEVATIONS ARE GIVEN, SEWERS SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR ALL PIPING 2-1/2" IN DIAMETER AND SMALLER AND 1/8" PER FOOT FOR ALL PIPING 3" IN DIAMETER AND LARGER.

F. STORM PIPING SHALL BE SLOPED AT 1/4" PER FT (2%) UNLESS NOTED OTHERWISE ON PLANS.

G. SUPPORT HORIZONTAL PIPING ACCORDING TO LOCAL PLUMBING CODE. HANGER RODS SHALL BE SIZED AS FOLLOWS:

NOMINAL PIPE SIZE (IN)	MINIMUM HANGER DIAMETER (IN)
1/2	3/8
3/4 TO 1-1/2	3/8
2 TO 2-1/2	3/8
3 TO 6	1/2

H. HANGERS FOR PIPING GREATER THAN 1" SHALL PASS OVER THE INSULATION. PROVIDE SADDLES FOR INSULATED PIPING.

I. INSULATION SHALL BE APPLIED WITH JOINTS TIGHTLY BUTTED. OPEN CRACKS, VOIDS AND DEPRESSIONS SHALL BE FILLED WITH HYDRAULIC SETTING CEMENT. LAPPING MATCHING THE FINISH SHALL BE PASTED NEATLY OVER JOINTS. FITTINGS AND VALVES SHALL BE INSULATED WITH THE SAME TYPE.

J. PROVIDE AND INSTALL A CUT-OFF VALVE, UNION AND FULL SIZE DIRT LEG AT CONNECTION TO EACH GAS-FIRED PIECE OF EQUIPMENT. INSTALL PIPING AT AND AROUND EQUIPMENT SO AS TO NO WAY OBSTRUCT EQUIPMENT ACCESS PANELS AND/OR ACCESS DOORS.

K. COORDINATE ABOVE-CEILING PIPING LOCATIONS AND ROUTING WITH HVAC CONTRACTOR AND M-SHEETS PRIOR TO INSTALLATION. ALL MAIN DUCT TRUNK LOCATIONS SHALL TAKE PRIORITY. PIPING MAY REQUIRE REMOVAL AND REINSTALLATION AT PLUMBING CONTRACTOR'S EXPENSE IF PIPING OBSTRUCTS THE M-SHEET DUCT LAYOUT AS SHOWN OR PREVENTS ACCESS TO GREASE DUCT CLEANOUT OPENINGS.

L. ALL GAS PIPING ABOVE ROOF SHALL BE CLEANED FREE OF RUST AND PAINTED WITH COAT OF ZINC RUST PRIMER AND ONE COAT OF ALUMINUM BASE PAINT. METER AND GAS RISER SHALL BE PRIMED AND PAINTED TO MATCH BUILDING.

2.03 TESTING (C15100)

A. POTABLE WATER PIPING SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

B. THE POTABLE WATER SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY BY OPENING OUTLETS AND FLOWING WATER UNTIL IT RUNS CLEAR. AFTER PIPE CLEANING IS COMPLETED, THE STRAINERS SHALL BE REMOVED, CLEANED, AND REPLACED. THEN THE ENTIRE POTABLE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.

C. THE SANITARY WASTE SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY WITH FLOWING WATER UNTIL IT RUNS CLEAR.

D. THE ENTIRE SANITARY WASTE SYSTEM AND STORM DRAINAGE SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

E. NATURAL GAS PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

PART III - MANUFACTURERS

3.01 PRODUCTS - PIPING SYSTEMS, ETC (C15100)

A. HYDRANTS, CARRIERS, DRAINS, AND SHOCK ABSORBERS: ZURN. ACCEPTABLE ALTERNATES: JAY R. SMITH, JONES STEPHENS CORP, WATTS, OR JOSAM.

B. ALTERNATES TO ZURN (ZRN) FIXTURES: ONLY AS SHOWN ON PLANS. APPROVED JAY R. SMITH (JRS), WATTS (WTS), MODEL NUMBERS LISTED ON FIXTURE SCHEDULE, THIS SHEET.

3.02 PRODUCTS - RESTROOM FIXTURES PORCELAIN & VALVES (C15405)

A. PREFERRED FIXTURES: TOTO. NO EXCEPTION.

B. ALTERNATE FIXTURES: ONLY AS SHOWN ON PLANS.

C. FITTINGS: AS SPECIFIED ON THE PLANS. NO SUBSTITUTIONS ALLOWED.

D. FLUSH VALVES AND LAVATORY FAUCETS: TOTO MANUFACTURING. NO SUBSTITUTIONS ALLOWED.

E. PREFERRED TOILET SEATS: TOTO. ALTERNATE TOILET SEATS: CHURCH, BEMIS, AND BENEKE.

F. FLOOR SINKS: ZURN WITH ALUMINUM SEDIMENT BUCKETS. NO SUBSTITUTIONS ALLOWED.

COORDINATION NOTE

1. CONTRACTOR SHALL THOROUGHLY REVIEW THE KITCHEN EQUIPMENT DRAWINGS TO ENSURE ALL ITEMS REGARDING THE PLUMBING SCOPE ARE FULLY UNDERSTOOD. MOST NOTABLY, ALL FAUCETS ARE REQUIRED TO BE PROVIDED (THROUGH HJC) & INSTALLED BY THE CONTRACTOR AS OUTLINED IN THE KITCHEN EQUIPMENT SCHEDULES.

NATIONAL ACCOUNTS

1. TOTO VALVES AND FIXTURES (NO SUBSTITUTIONS). HAINES, JONES & CADBURY LLC. (HJC DISTRIBUTORS). PLEASE CONTACT HJC-CFA CUSTOMER SERVICE REPRESENTATIVE AT (800) 459-7099 OR VIA E-MAIL AT: **CF@HJCINC.COM** FOR NATIONAL ACCOUNT PRICING AND DELIVERY FOR ALL ITEMS ON PLUMBING FIXTURE SCHEDULE.

2. PLUMBING FIXTURES

RESTROOM FIXTURES (C15405) AND PLUMBING (15100)

P-1 WATER CLOSET: TOTO MODEL CT705UN#01 BOWL WITH 1.28 GPF TET1LA32#CP ECO-POWER FLUSH VALVE AND SC534 SEAT (ALL PROVIDED BY HJC). NO SUBSTITUTIONS. WHITE, FLOOR MOUNTED, FLUSH VALVE TYPE, VITREOUS CHINA, 1-1/2" TOP SPUD, ELONGATED BOWL, ELECTRONIC SENSOR OPERATED HANDS-FREE FLUSH VALVE, WHITE OPEN FRONT SEAT WITH CHECK HINGE. CHICK-FIL-A HAS NATIONAL ACCOUNTS WITH TOTO. PLEASE SEE NATIONAL ACCOUNT INFORMATION ON THIS SHEET FOR PRICING OF TOTO FIXTURES.

P-2 WATER CLOSET (ADA): TOTO MODEL CT705ULN#01 BOWL WITH 1.28 GPF TET1LA32#CP ECO-POWER FLUSH VALVE AND SC534 SEAT (ALL PROVIDED BY HJC). NO SUBSTITUTIONS. H.C. ACCESSIBLE, WHITE, FLOOR MOUNTED, 17-1/2" HIGH, FLUSH VALVE TYPE, VITREOUS CHINA, 1-1/2" TOP SPUD, ELONGATED BOWL, ELECTRONIC SENSOR OPERATED HANDS-FREE FLUSH VALVE, WHITE OPEN FRONT SEAT WITH CHECK HINGE, AND NO OFFSET TOILET FLANGES. CHICK-FIL-A HAS NATIONAL ACCOUNTS WITH TOTO. PLEASE SEE NATIONAL ACCOUNT INFORMATION ON THIS SHEET FOR PRICING OF TOTO FIXTURES.

P-3 URINAL: TOTO MODEL UT445U#01 URINAL WITH TEU1UA12#CP 0.125 GPF SELF SUSTAINED HYDROPOWER SELF-GENERATING ELECTRONIC SENSOR-OPERATED FLUSH VALVE (BOTH PROVIDED BY HJC). NO SUBSTITUTIONS. VITREOUS CHINA, 3/4" TOP SPUD, SENSOR OPERATED WITH MANUAL OVERRIDE BUTTON, INTERNAL VALVE FILTER PROTECTION, PLEASE SEE NATIONAL ACCOUNT INFORMATION ON THIS SHEET FOR PRICING OF TOTO PRODUCTS.

P-4A LAVATORY FAUCET: (BUILT-IN COUNTERTOP LAVATORY PROVIDED BY OWNER) TOTO MODEL TEL 155-D10ET#CP ECO-POWER SENSOR HOT/COLD FAUCET WITH THERMOSTATICALLY CONTROLLED ASSE 1070 MIXING VALVE FAUCET. 0.09 GALLONS PER CYCLE. NO SUBSTITUTIONS. PROVIDE MCGUIRE LF175 SUPPLY WITH STOP, MCGUIRE 155-WC GRID DRAIN WITH OFFSET TAILPIECE. MCGUIRE 8872C POLISHED CHROME P-TRAP. P-TRAP SHALL BE PARALLEL WITH BACK WALL. TRUEBRO INC., HANDI LAV-GUARD INSULATION KITS MODELS 101EZ AND 105EZ. (ALL PROVIDED BY HJC). CHICK-FIL-A HAS NATIONAL ACCOUNTS WITH TOTO. PLEASE SEE NATIONAL ACCOUNT INFORMATION ON THIS SHEET FOR PRICING OF TOTO FIXTURES.

P-4B LAVATORY FAUCET: (LAVATORY PROVIDED BY HJC) TOTO MODEL LT307 ECO-POWER SENSOR HOT/COLD FAUCET MODEL TEL105D10ET#CP WITH THERMOSTATICALLY CONTROLLED ASSE 1070 MIXING VALVE FAUCET. 0.09 GALLONS PER CYCLE. NO SUBSTITUTIONS. MCGUIRE LF175 SUPPLY WITH STOP, MCGUIRE 155-WC GRID DRAIN WITH OFFSET TAILPIECE. MCGUIRE 8872C POLISHED CHROME P-TRAP. P-TRAP SHALL BE PARALLEL WITH BACK WALL. TRUEBRO INC., HANDI LAV-GUARD INSULATION KITS MODELS 101EZ AND 105EZ. (ALL PROVIDED BY HJC). CHICK-FIL-A HAS NATIONAL ACCOUNTS WITH TOTO. PLEASE SEE NATIONAL ACCOUNT INFORMATION ON THIS SHEET FOR PRICING OF TOTO FIXTURES.

P-5 KITCHEN HAND SINK ROUGH IN: SINK BY TMS; FAUCET: TOTO MODEL #TEL165-C20E#CP - PROVIDED BY HJC WITH THP3094 NOZZLE. CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. MCGUIRE LF175 SUPPLIES WITH STOPS AND A MCGUIRE 8912C POLISHED CHROME P-TRAP (PROVIDED BY HJC). ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F (OR HIGHER AS REQUIRED BY LOCAL JURISDICTION).

P-5A KITCHEN DUMP SINK ROUGH IN: (SINK BY TMS; FAUCET: T&S MODEL #B-1146-CFA-VF05 - PROVIDED BY HJC WITH THP3094 NOZZLE) CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. MCGUIRE LF175 SUPPLIES WITH STOPS (PROVIDED BY HJC).

P-6 SERVING COUNTER DROP IN SINK ROUGH IN: (SINK PROVIDED BY CLAYTON FIXTURE; FAUCET-T&S EC-3100-7XF1THG WITH 1.0 GPM AERATOR PROVIDED BY HJC) CONTRACTOR SHALL INSTALL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. MCGUIRE 8912C POLISHED CHROME P-TRAP AND MCGUIRE LF175R20 STOPS WITH 20" CHROME PLATED 3/8" COPPER RISERS (PROVIDED BY HJC). ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F (OR HIGHER AS REQUIRED BY LOCAL JURISDICTION).

P-7 MOP SINK FAUCET: (MOP SINK BASIN BUILT BY GENERAL CONTRACTOR) PROVIDE T&S BRASS MODEL B-2345 FAUCET WITH CERAMA SPRING CHECK VALVE CARTRIDGES, HOSE THREAD SPOUT OUTLET, TOP BRACE, ADJUSTABLE INLET SPREAD FROM 3" TOP 8". INCLUDE T&S BRASS MODEL 43-072 HOSE THREAD X 3/4" FEMALE NPT CHROME ADAPTOR (ALL PROVIDED BY HJC). NO SUBSTITUTIONS. SEE ALSO P-16.

P-8 VEGETABLE PREP SINK ROUGH-IN: (SINK PROVIDED BY TMS; FAUCET T&S B-0152-14-CRBCT WITH 0.65 GPM SPRAY HEAD BY HJC) CONTRACTOR SHALL INSTALL SINK AND MAKE FINAL CONNECTIONS. MCGUIRE LFST08 STOPS AND BRASSCRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC (PROVIDED BY HJC), ASSEMBLE AND MOUNT TWO HANDLE FAUCET WITH PRE-RINSE SPRAY ARM. INSTALL ADD-ON FAUCET WITH SPOUT AT BASE OF PRE-RINSE RISER. SEE K-SHEET ELEVATIONS. PROVIDE 1-1/2" SCHED 80 PVC (PIPE AND FITTINGS) INDIRECT WASTE LINES FROM SINK BASINS TO FLOOR SINK P-13B, NO P-TRAPS REQUIRED. HJC TO PROVIDE FISHER #22209 DRAINS WITH FLAT STRAINERS.

P-9 FOUR COMPARTMENT POT SINK ROUGH-IN: (SINK PROVIDED BY TMS; FAUCETS: T&S B-0152-14CRBCT & B2299-CR WITH 0.65 GPM SPRAY HEAD PROVIDED BY HJC) CONTRACTOR SHALL INSTALL SINK, ASSEMBLE & MOUNT TWO FAUCETS. AND MAKE FINAL CONNECTIONS. MCGUIRE LFST08 STOPS AND BRASSCRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC (PROVIDED BY HJC). ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH PRE-RINSE SPRAY. INSTALL ADD-ON FAUCET WITH SPOUT AT BASE OF PRE-RINSE RISER. ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH DOUBLE JOINT SPOUT ON OPPOSITE SIDE. SEE K-SHEET ELEVATIONS FOR FAUCET LOCATIONS. PROVIDE 1-1/2" SCHED 80 PVC (PIPE AND FITTINGS) INDIRECT WASTE LINES FROM EACH SINK BASIN TO FLOOR SINK P-13A, NO P-TRAPS REQUIRED. HJC TO PROVIDE FISHER #22209 DRAINS WITH FLAT STRAINERS.

P-10 FLOOR DRAIN (3"): ZURN EZ1-PV3-R8 PVC BODY, BRONZE SPUD WITH 8" DIAMETER NICKEL BRONZE STRAINER (PROVIDED BY HJC). ALT: JONES STEPHENS CORP D53-144.

P-11 WALL HYDRANT (NON-FREEZE): WOODFORD MODEL 67C AUTOMATIC DRAINING WALL HYDRANT WITH DUAL CHECK BFP, ASSE 1052 APPROVED, WALL CLAMP, POLISHED BRASS FINISH (PROVIDED BY HJC). "C" STYLE INLET, SEE WALL HYDRANT NOTES ON 1/P-201 FOR WALL THICKNESS AT WALL HYDRANTS. ALT: (WTS) HY-42.

P-12 FUNNEL DRAIN (3"): ZURN MODEL ZN415-3NL-6S-4 FLOOR DRAIN W/FUNNEL. INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL. PROVIDE 6" SQUARE STRAINER WITH 4" ROUND FUNNEL AT WALK-IN COOLER (PROVIDED BY HJC). 4" ROUND FUNNEL (ZURN) ZN328-4.

P-13A FLOOR SINK (POT SINK): ZURN MODEL Z1901-4NL-1-23-KC CAST IRON INDIRECT WASTE RECEIVER WITH 12" SQUARE BODY, FLASHING CLAMP, 8" DEEP, ALUMINUM SEDIMENT BUCKET, AND NO GRATE. NO SUBSTITUTIONS (PROVIDED BY HJC).

P-13B FLOOR SINK (VEGETABLE SINK): ZURN MODEL Z1910-KC-3NL-1-23 CAST IRON INDIRECT WASTE RECEIVER WITH FLASHING CLAMP, 8" SQ. BODY, ALUMINUM SEDIMENT BUCKET, AND NO GRATE (PROVIDED BY HJC). NO SUBSTITUTIONS.

3 P-13C FLOOR SINK (DUMP SINK 3" WASTE CONNECTION): ZURN MODEL Z1910-3NL-KC-2-23 CAST IRON BODY WITH INDIRECT WASTE RECEIVER, NEO-LOC OUTLET, ANCHOR FLANGE WITH SEEPAGE HOLES AND CLAMP COLLAR, WITH HALF GRATE, AND ALUMINUM BUCKET. (PROVIDED BY HJC.) NO SUBSTITUTIONS.

P-14 CLEANOUTS INSIDE BUILDING: ZURN ZN1400-XNL-T-BP CLEANOUT WITH 6" SQUARE NICKEL BRONZE TOP AND TAPER THREAD BRONZE PLUG. SEE PLAN FOR SIZE. (X=PIPE DIA) (PROVIDED BY HJC).

P-15 CLEANOUTS OUTSIDE BUILDING: ZURN Z1474-NX EXTRA HEAVY DUTY CAST IRON CLEANOUT, "C.O." CAST IN COVER, ABS PLUG, NEO-LOOCK OUTLET. (X=PIPE DIA) (PROVIDED BY HJC). ALT: (ZURN) Z1474-X-N.

P-16 3-WAY DIVERTER VALVE ASSEMBLY: WATTS MODEL LFB 6780 ROUGH BRASS LEAD-FREE DIVERTER BALL VALVE WITH 3/4" FIP INLET AND OUTLETS AND QUARTER TURN LEVER HANDLE. PROVIDE WITH TWO (2) FORGED BRASS 3/4" MIP X 3/4" MALE GARDEN HOSE THREAD ADAPTERS (PLUMBEST MODEL G20-103 OR EQUAL). PROVIDE WITH ONE ASSE 1011 APPROVED CHROME PLATED VACUUM BREAKER (WOODFORD MODEL 34H-CH OR EQUAL) (ALL PROVIDED BY HJC). FOR INSTALLATION AT MOP SINK. SEE 4/P-201. PROVIDE ALSO TWO 3/4" CLOSE CHROME PLATED BRASS NIPPLE AND 3/4" POLISHED CHROME 90 DEGREE ELBOW.

P-17 VACUUM RELIEF VALVE: WATTS MODEL #LFN36M1, 3/4" CONNECTION. (PROVIDED BY HJC.)

P-18 EXPANSION TANK: AO SMITH MODEL TW12-5, ACCEPTANCE 2.19 GALLONS (PROVIDED BY HJC) AT 40 PSI PRECHARGE, 3/4" CONNECTION. ALTERNATE MODELS SIZED PER WATER HEATER MANUFACTURER RECOMMENDATIONS ARE ACCEPTABLE.

P-19 WATER HEATER: BRADFORD-WHITE EF-60T-125E-3N STORAGE TYPE GAS FIRED 60 GALLON WATER HEATER, 125MBH INPUT, 145 GPH RECOVERY AT 100F RISE, DIRECT VENT, BLOWER POWERED, CONDENSING TYPE WITH THREE-YEAR WARRANTY (PROVIDED BY HJC). CONTRACTOR TO PROVIDE DIELECTRIC HEAT TRAP NIPPLES. STATE INDUSTRIES SUF-100-199-NE, RHEEM GHE80-130, AND BRADFORD-WHITE EF-60T-199-3N MODELS ARE ACCEPTABLE SUBSTITUTES. (ANY SUBSTITUTIONS PROVIDED ON REQUEST FROM HJC.)

P-20 THERMOMETER: PROVIDE TRERICE MODEL B83404 - 04 3" DIAL TYPE THERMOMETER WITH BOTTOM 1/2" N.P.T. CONNECTION, 4" STEM AND 0 DEG F TO 200 DEG F RANGE. LEAD FREE. (PROVIDED BY HJC.)

P-21 BACKFLOW PREVENTERS: COORDINATE LOCATION WITH CIVIL SITE UTILITY PLAN. BACKFLOW PREVENTER TYPE AND MODEL IS DETERMINED BY CIVIL ENGINEER IF LOCATED OUTSIDE THE BUILDING.

DOUBLE CHECK TYPE:
WATTS NO. LFU007M1QT 1-1/2" DUAL CHECK MODULAR TYPE BACKFLOW PREVENTER MEETING ASSE 1015 AND AWWA C510-92. WHERE REQUIRED BY LOCAL AUTHORITY, USE THE RPZ TYPE BFP SHOWN BELOW. ALT: (ZRN) 112-350XL.

REDUCED PRESSURE ZONE (RPZ) TYPE:
WATTS NO. LFU009M2 1-1/2" MODULAR TYPE WITH TEST PORTS AND INTERMEDIATE RELIEF VALVE MEETING ASSE 1013 AND AWWA C511-89. PROVIDE WATTS NO. 909-AG-C AIR GAP DEVICE. ALT: (ZRN) 112-975XLT2U.
(ANY AND ALL PROVIDED BY HJC.)

P-22 MOP SINK CHECK VALVES: T&S BRASS 1/2" MODEL B-CVV1-2 BALL CHECK. (PROVIDED BY HJC)

P-23 UTILITY CONNECTION (ICEMAKER): PROVIDE A MCGUIRE MODEL LFHST06SB LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET (PROVIDED BY HJC). PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFP P-34. SEE DETAIL 3/P-201 FOR PIPING AT ICE MAKERS.

P-24 UTILITY CONNECTION (COFFEE & TEA BREWERS): PROVIDE A MCGUIRE MODEL LFHST06SB LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET (PROVIDED BY HJC). PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFP P-34.

P-25 SHOCK ABSORBER: ZURN Z1700-100 THRU Z1700-300 AS NEEDED, SIZE AS RECOMMENDED BY MANUFACTURER (PROVIDED BY HJC). ALT: (WTS) SSA + SSB; (JRS 5005 THROUGH 5050)

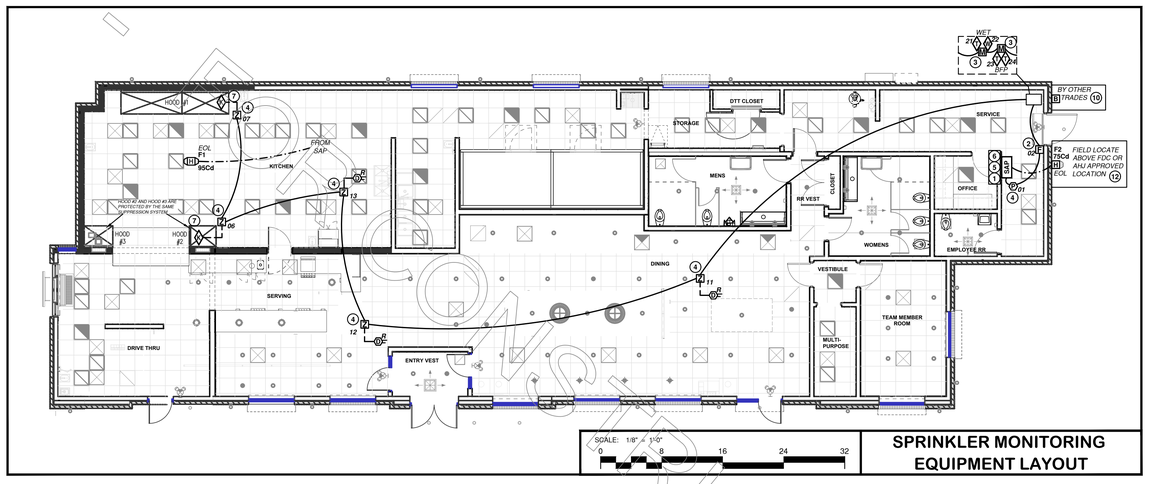
P-26 FUNNEL DRAIN (3"): ZURN ZN415-3NL-8S-OF FLOOR DRAIN W/FUNNEL. INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL. PROVIDE 8"X8" SQUARE STRAINER WITH 3.25"X 8.25" OBLONG FUNNEL (DRAIN AND STRAINER PROVIDED BY HJC). ALT: (JRS) 3510L03-F22NB.

P-26A TRAP SEAL PROTECTOR: PROVENT TRAP GUARD MODEL TG3H 3" TRAP SEAL INSERT FOR INTERIOR INSTALLATION AND REPLACEMENT ACCESS THROUGH STRAINER. PROVIDE AT P-35 FLOOR DRAINS IN RESTROOMS, P-37 FLOOR DRAINS IN DINING ROOM, AND P-10/P-26 DRAINS IN SERVICE ROOM. PROVIDE PROSET MODEL TG33-ZURN WHEN USING ZURN FLOOR FIXTURES.

P-27 WATER PRESSURE GAUGE: TRERICE MODEL 800B, 2-1/2" ROUND, BOTTOM OUTLET WITH 1/4" N.P.T. CONNECTION AND 0 TO 100 PSI RANGE. (PROVIDED BY HJC.)

P-28 ISOLATION BALL VALVE (8-STOP WATER MANIFOLD PANEL): NIBCO MODEL 4660-T, 3/4", WITH IPS INLET AND OUTLET. (PROVIDED BY HJC.)

P-29 ICE MACHINE TRENCH DRAIN: ZURN/STAINLESS DRAINS TR12-CFA-XX STAINLESS STEEL TRENCH DRAIN, 14.5" X XX", STAINLESS STEEL SEDI



SPRINKLER MONITORING EQUIPMENT LAYOUT

EQUIPMENT LIST

TYPE	MANUFACTURER	PART NUMBER	DESCRIPTION	QTY
SAP	FIRE LITE	ES-50X	ADDRESSABLE SPRINKLER ALARM PANEL	1
COMM	FIRE LITE	IPOTS-COM	IPOTS-COM COMMUNICATOR (INCLUDED WITH PANEL)	1
BATTERY	ENERSYS	NP7-12	12 VOLT 7 AMP HOUR STORAGE BATTERY	3
COMM	STARLINK	SLE-LTEVI-CFBPS	INTERNET AND DIGITAL CELLULAR COMMUNICATOR	1
PATCH CABLE	STARLINK	#SS6-4545-8F-XX	RJ PATCH CABLE	1
AS-BUILT	MIER	BW-DOCBOX	AS-BUILT DOCUMENT STORAGE CABINET	1
PHOTO	FIRE LITE	SD365-IV	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR	1
INPUT	FIRE LITE	MMF-300	ADDRESSABLE MONITOR MODULE	5
DUAL INPUT	FIRE LITE	MDF-300	ADDRESSABLE DUAL MONITOR MODULE	2
PULL	FIRE LITE	BG-12LX	ADDRESSABLE MANUAL PULL STATION	1
CHS	SYSTEM SENSOR	PC2RL	SELECTABLE CANDELA CEILING MOUNT HORN/STROBE	1
WPHS	SYSTEM SENSOR	P2RK	SELECTABLE CANDELA WEATHERPROOF HORN/STROBE	1

BATTERY CALCULATIONS

SPRINKLER ALARM PANEL BATTERY CALCULATION

QTY	TYPE	PART NUMBER	STANDBY	TOTAL STANDBY	ALARM	TOTAL ALARM
1	SAP	ES-50X	0.1410 Amps	0.1410 Amps	0.2570 Amps	0.2570 Amps
1	COMM	IPOTS-COM	0.0400 Amps	0.0400 Amps	0.0410 Amps	0.0410 Amps
1	PHOTO	SD365-IV	0.0002 Amps	0.0002 Amps	0.0045 Amps	0.0045 Amps
5	INPUT	MMF-300	0.0004 Amps	0.0018 Amps	0.0050 Amps	0.0250 Amps
2	DUAL INPUT	MDF-300	0.0008 Amps	0.0015 Amps	0.0064 Amps	0.0128 Amps
1	PULL	BG-12LX	0.0002 Amps	0.0002 Amps	0.0002 Amps	0.0002 Amps
1	CHS	PC2RL	0.0000 Amps	0.0000 Amps	0.1650 Amps	0.1650 Amps
1	WPHS	P2RK	0.0000 Amps	0.0000 Amps	0.1760 Amps	0.1760 Amps
			TOTAL	0.1847 Amps	TOTAL	0.6815 Amps

SEE VOLTAGE DROP CALCULATIONS FOR DETAILS ON THE NOTIFICATION APPLIANCE CIRCUITS. PROVIDE 24 HOURS OF BATTERY BACKUP WITH 5MIN (.083 HRS) OF ALARM.

24 Hrs	HOURS	0.083 Hrs
4.43 Ah	AMP HOUR	0.06 Ah
1.20	DERATING	1.20
5.32 Ah	TOTAL	0.07 Ah
TOTAL REQUIRED		5.387 Ah
SEE EQUIPMENT LIST FOR SIZE		

VOLTAGE DROP CALCULATIONS

NOTIFICATION APPLIANCE CIRCUIT SCHEDULE

CIRCUIT	TYPE	CANDELA	PART NUMBER	ALARM	QTY	TOTAL
F1	CHS	95Cd	PC2RL	0.165 Amps	1	0.165 Amps
F2	WPHS	75Cd	P2RK	0.176 Amps	1	0.176 Amps

VOLTAGE DROP CALCULATION

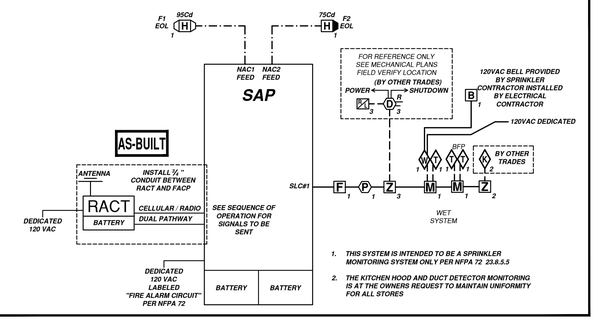
POWER SUPPLY	CIRCUIT	TOTAL AMPS	FOOTAGE	OHMS PER 1K	TOTAL OHMS	VOLTAGE DROP
F1	F1	0.165 Amps	400	3.19	1.28 Ohms	0.21 Vdc
F1	F2	0.176 Amps	350	3.19	1.12 Ohms	0.20 Vdc

SEQUENCE OF OPERATIONS

INPUTS AND ACTIONS

OUTPUTS AND CONTROLS	SPRINKLER FLOW SWITCH	SPRINKLER TAMPER SWITCH	MANUAL PULL STATION	SMOKE DETECTOR	HEAT DETECTOR	SPRINKLER WATERFLOW SWITCH	DUCT SMOKE DETECTOR	KITCHEN HOOD SYSTEM	SUPERVISORY SIGNAL FROM AHJ
OPERATE ALL AREA EVACUATION SIGNALS (TEMPORAL CODE 3)	●		●		●				●
SOUND LOCAL PIEZO AT SAP	●	●	●	●	●	●	●	●	●
INDICATE DEVICE/ZONE AT SAP	●	●	●	●					●
SEND GENERAL ALARM SIGNAL TO CENTRAL STATION MONITORING	●				●				●
SEND TROUBLE SIGNAL TO CENTRAL STATION MONITORING						●	●	●	●
SEND SUPERVISORY SIGNAL TO CENTRAL STATION MONITORING		●	●						
SEND WATERFLOW ALARM SIGNAL TO CENTRAL STATION MONITORING			●						
ILLUMINATE LED ON DETECTOR/ MODULE	●	●	●	●	●				●
ILLUMINATE LED ON REMOTE INDICATING DEVICE		●							
SHUTDOWN AIR HANDLER		●							
TURN ON SPRINKLER HORN/STROBE			●						

RISER DIAGRAM



PROJECT NOTES

PROJECT GENERAL INFORMATION

AREA:
APPROX. SQUARE FOOTAGE: **4,868 sq. ft.**

SYSTEM TYPE:
ADDRESSABLE SPRINKLER MONITORING SYSTEM.

DESCRIPTION:
ADDRESSABLE FIRE LITE ES-50X SPRINKLER MONITORING SYSTEM, UTILIZING A POWER LIMITED, FULLY SUPERVISED, MANUAL AND AUTOMATIC INITIATION/DETECTION SYSTEM. THIS SYSTEM SHALL MONITOR THE BUILDING FIRE SPRINKLER SYSTEM AND SEND AUTOMATIC SIGNALS TO A UL LISTED / FM APPROVED "CENTRAL STATION" MONITORING SYSTEM.

DESIGN STANDARDS

1. MANUFACTURERS' GUIDELINES
2. NFPA 72 (2013)
3. NFPA 70 (2014)
4. IFC (2015) AS AMENDED BY THE AHJ

SCOPE OF WORK:

1. INSTALL ONE (1) NEW SPRINKLER MONITORING SYSTEM TO MONITOR THE SPRINKLER SYSTEM FOR THE CHICK-FIL-A STORE # 04591.
2. THE SPRINKLER MONITORING SYSTEM SHALL SEND AUTOMATIC SIGNALS TO A UL LISTED / FM APPROVED "CENTRAL STATION" MONITORING SYSTEM. REFER TO THE RISER DIAGRAM AND THE SEQUENCE OF OPERATIONS FOR THE SPECIFIC SIGNALS TO BE TRANSMITTED.
3. THE SPRINKLER MONITORING SYSTEM SHALL PROVIDE BATTERY BACKUP AS A SECONDARY POWER SOURCE. REFER TO THE BATTERY CALCULATIONS LOCATED ON THESE DRAWINGS FOR THE STANDBY TIME AND SIZE OF BATTERIES REQUIRED.
4. THIS PROJECT'S SPRINKLER MONITORING SYSTEM SHALL BE DESIGNED UTILIZING THE STANDARDS LOCATED IN THE "DESIGN STANDARDS" SECTION ON THESE DRAWINGS.
5. INSTALLATION CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE FIRE MARSHAL TO OBTAIN A PERMIT.

GENERAL NOTES:

1. THIS PROJECT'S SPRINKLER MONITORING SYSTEM SHALL BE INSTALLED IN A "WORKMAN LIKE MANNER" UTILIZING "GOOD COMMERCIAL PRACTICE".
2. TO ENSURE THE PROPER OPERATION OF THE SPRINKLER MONITORING SYSTEM, A COMPLETE FUNCTIONAL TEST SHALL BE PERFORMED PRIOR TO THE FINAL INSPECTION BY THE AUTHORITY HAVING JURISDICTION (A.H.J.).
3. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL TESTING WITH THE LOCAL A.H.J., GENERAL CONTRACTOR AND ANY ASSOCIATED CONTRACTORS.
4. UPON COMPLETION OF THE PROJECT, THE INSTALLING CONTRACTOR SHALL PROVIDE INSPECTION REPORTS, OPERATIONS MANUALS, AND SHOP DRAWINGS TO THE OWNER REPRESENTATIVE.
5. ALL OF THE SPRINKLER MONITORING SYSTEM PROGRAMMING THAT IS REQUIRED SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR.
6. ALL OF THE SPRINKLER MONITORING CONTROL PANEL TERMINATIONS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR.
7. THE SPRINKLER MONITORING INSTALLATION SHALL BE IN ACCORDANCE WITH THESE PLANS. CHANGES IN DEVICES, LOCATIONS, AND/OR CIRCUITS MUST BE APPROVED BY THE ENGINEER OF RECORD (SEE ENGINEER INFORMATION). IF THE CHANGES ARE SUFFICIENT TO REQUIRE RE-ENGINEERING A FEE MAY BE CHARGED TO THE CONTRACTOR REQUESTING THE CHANGES.

MOUNTING INSTRUCTIONS:

1. ALL DEVICES SHALL BE INSTALLED UTILIZING THE STANDARDS LOCATED IN THE "DESIGN STANDARDS" ON THESE DRAWINGS.
2. SMOKE DETECTORS SHALL BE MOUNTED AS FOLLOWS:
   2.1. CENTER OF CEILING TILES.
   2.2. NO CLOSER THAN THREE (3) FEET FROM AN AIR MOVING REGISTER
   2.3. NO LESS THAN 4" FROM A SIDE WALL.
3. DUCT SMOKE DETECTORS SHALL BE INSTALLED AND CERTIFIED BY OTHER TRADES. THE DUCT SMOKE DETECTORS SHALL BE MONITORED BY THE FACP.
4. MANUAL PULL STATIONS SHALL BE MOUNTED AS FOLLOWS:
   4.1. 48" TO THE TOP OF THE DEVICE ABOVE THE FINISHED FLOOR.
   4.2. WITHIN 5' OF THE EXIT DOOR WHERE POSSIBLE.
5. HORN/STROBE AND STROBE UNITS SHALL BE MOUNTED AS FOLLOWS:
   5.1. SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" ABOVE THE FINISHED FLOOR.
   5.2. WHEN CEILING HEIGHTS ARE LESS THAN 80", MOUNT THE DEVICE 6" BELOW THE CEILING.
   5.3. ALL CEILING MOUNT DEVICES SHALL BE IN THE CENTER OF THE TILE.
   5.4. SET ALL HORN STROBES TO HIGH dBA SETTING.
   5.5. SET CANDELA RATING AS NOTED ON PLANS.

ELECTRICAL INSTALLATION NOTES:

1. THE SPRINKLER MONITORING SYSTEM WIRING SHALL BE INSTALLED UTILIZING THE STANDARDS LOCATED IN THE "DESIGN STANDARDS" ON THESE DRAWINGS.
2. REFER TO THE "WIRE CHART" LOCATED ON THESE DRAWINGS FOR QUANTITY, TYPE & SIZE OF THE WIRE.
3. ALL SIGNAL LINE CIRCUITS (i.e. SLC DATA) SHALL BE CLASS "B".
4. ALL INITIATION DEVICES CIRCUITS (IDC) SHALL BE CLASS "B".
5. ALL NOTIFICATION APPLIANCE CIRCUITS (NAC) SHALL BE CLASS "B".
6. A LICENSED ELECTRICAL CONTRACTOR SHALL PROVIDE THE INSTALLATION, LABOR, CONDUIT, AND WIRING FOR ALL 120VAC POWER CIRCUITS CONNECTED TO THE SPRINKLER MONITORING SYSTEM.
7. ALL CABLE RUNS SHALL RUN PARALLEL TO THE BUILDING LINES, DIAGONAL RUNS ARE NOT ACCEPTABLE.
8. ALL CABLE SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE. CONNECTION TO CEILING GRID, CONDUIT, SPRINKLER PIPE, ETC. SHALL NOT BE PERMITTED. ALL CABLE SHALL BE SUPPORTED WITH FIRE RATED CABLE TIES AT 4'-0" ON CENTER. ALL SUPPORT SYSTEMS SHALL BE INSTALLED PER THE DESIGN STANDARDS ON THESE DRAWINGS.
9. ALL JUNCTION BOXES SHALL BE SECURELY MOUNTED. JUNCTION BOXES WITHIN THE CEILING GRID SHALL BE SUPPORTED UTILIZING "T-BAR" TYPE HANGERS. ALL CABLE WITHIN THE WALL SYSTEM SHALL BE IN CONDUIT OR FLEXIBLE CONDUIT PER THE DESIGN STANDARDS ON THESE DRAWINGS.
10. ALL CABLE BELOW CEILING LEVEL SHALL BE INSTALLED WITHIN METALLIC SURFACE MOUNTED RACEWAY (i.e. WIREMOLD, WALLTRAK, PANDUIT, ETC.) OR BE CONTAINED WITHIN WALL SYSTEM.

CONDUCTOR PROPERTIES CHART

AWG SOLID	AWG STRANDED	CONDUCTORS STRANDING QUANTITY	CONDUCTORS OVERALL DIA. IN.	CONDUCTORS AREA IN.	DC RESISTANCE AT 75°C (167°F) COPPER MAX. OHMS/1000 FT	DC RESISTANCE AT 75°C (167°F) ALUMINUM MAX. OHMS/1000 FT
18	16/26	7	0.049	0.001	7.77	12.8
16	14/26	7	0.058	0.002	7.95	13.1
14	12/26	7	0.071	0.002	4.89	8.05
12	10/26	7	0.078	0.003	4.89	8.05
10	8/26	7	0.094	0.005	3.07	5.152
14	4/19	7	0.074	0.004	3.14	5.26
12	6/26	7	0.087	0.006	1.95	3.21
10	6/26	7	0.095	0.008	1.98	3.25

BATTERY CALCULATIONS

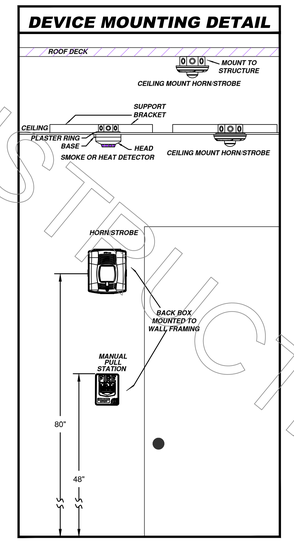
LTE FIRE RADIO DIALER BATTERY CALCULATION

QTY	TYPE	PART NUMBER	STANDBY	TOTAL STANDBY	ALARM	TOTAL ALARM
1	COMM	SLE-LTEV-CFB-PS	0.1510 Amps	0.1510 Amps	0.2000 Amps	0.2000 Amps
			TOTAL	0.1510 Amps	TOTAL	0.2000 Amps

SEE VOLTAGE DROP CALCULATIONS FOR DETAILS ON THE NOTIFICATION APPLIANCE CIRCUITS. PROVIDE 24 HOURS OF BATTERY BACKUP WITH 5MIN (.083 HRS) OF ALARM.

24 Hrs	HOURS	0.083 Hrs
3.62 Ah	AMP HOUR	0.02 Ah
1.20	DERATING	1.20
4.35 Ah	TOTAL	0.02 Ah
TOTAL REQUIRED		4.369 Ah
SEE EQUIPMENT LIST FOR SIZE		

DEVICE MOUNTING DETAIL



WIRE SCHEDULE

LINE TYPE	TYPE	CIRCUIT DESCRIPTION
— · — · —	2C/#14 - FPL	NOTIFICATION APPLIANCE CIRCUIT
———	2C/#16 - FPL	SLC CIRCUIT (DATA) TWISTED PAIR
— — —	2C/#16 - FPL	INITIATION CIRCUIT

EXAMPLE : 2C/#14 - FPL - SH
——LINE TYPE SHOWN ON THE FLOOR PLAN TO IDENTIFY CABLE
2C = TWO CONDUCTOR SOLID CABLE
#14 = GAUGE OF WIRE (#14 AWG)
FPL = FIRE ALARM POWER LIMITED CABLE
SH = SHIELDED CABLE

SYMBOL LEGEND

SYMBOL	DESCRIPTION	
SAP	SPRINKLER ALARM PANEL	
RACT	INTERNET AND DIGITAL CELLULAR COMMUNICATOR	
AS-BUILT	FIRE ALARM AS-BUILT DOCUMENT CABINET	
P XXX	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR (XXX = ADDRESS)	
F XX	ADDRESSABLE MANUAL PULL STATION (XX=ADDRESS)(DUAL ACTION)	
Z XXX	ADDRESSABLE MONITOR MODULE (XXX = ADDRESS)	
M XXX	ADDRESSABLE DUAL MONITOR MODULE (XXX = ADDRESS)	
H CS/Cd	FIRE ALARM CEILING MOUNT HORN/STROBE	Cs=CANDELA Sel=CIRCUIT #
H CS/Cd	WEATHER PROOF FIRE ALARM HORN/STROBE	Cs=CANDELA Sel=CIRCUIT #
B	WEATHER PROOF SPRINKLER WATERFLOW BELL (BY OTHER TRADES)	
	REMOTE LED (BY OTHER TRADES)	
D	DUCT SMOKE DETECTOR (R=RETURN) (BY OTHER TRADES)	
	KITCHEN HOOD SYSTEM (BY OTHER TRADES)	
	SPRINKLER WATERFLOW SWITCH (BY OTHER TRADES)	
	SPRINKLER (DRY / WET) TAMPER SWITCH (BY OTHER TRADES)	

NOT FOR CONSTRUCTION - FOR CONSTRUCTION

Chick-fil-A
5200 Buffington Road
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CHICK-FIL-A
WEST POND FSU
320 US HIGHWAY 9 N
WOODBRIDGE, NJ 07095-1004

FSU#04591

BUILDING TYPE / SIZE: P13 LE
RELEASE: 21.11

REVISION SCHEDULE

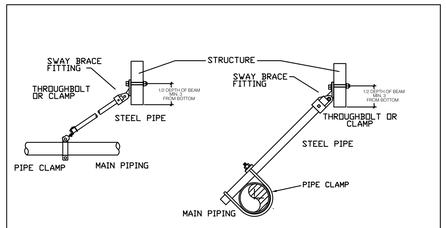
DATE	DESCRIPTION

CONSULTANT PROJECT # 03K74-2341393
PRINTED FOR CONSTRUCTION SET
DATE 8/31/2022
DRAWN BY TSF

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SHEET: SPRINKLER MONITORING

SHEET NUMBER: **FP1.1**



1. LATERAL BRACING MAY BE OMITTED WHERE HANGER RODS ARE LESS THAN 6 IN LENGTH

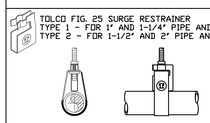
LONGITUDINAL EQB LATERAL EQB

END OF LINE HANGER DETAIL



RUN ROD TIGHT TO PIPE TO PREVENT UPWARD MOVEMENT

USE THIS DETAIL IF RODS ARE LESS THAN 6"



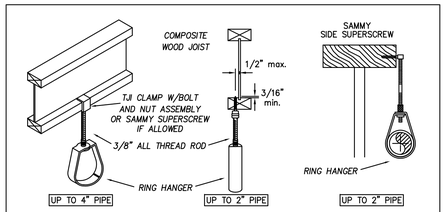
TOLCO FIG. 25 SURGE RESTRAINER
TYPE 1 - FOR 1" AND 1-1/4" PIPE AND HANGER
TYPE 2 - FOR 1-1/2" AND 2" PIPE AND HANGER

TOLCO FIG. 25 IS DESIGNED TO BE USED ONLY WITH TOLCO BAND HANGERS FIG. 200 AND 2NFPA TO RESTRAIN THE UPWARD MOVEMENT OF PIPE AS IT OCCURS DURING SPRINKLER HEAD ACTIVATION OR SEISMIC ACTIVITY

FIGURE 25 SURGE RESTRAINER

USE THIS DETAIL IF RODS ARE LONGER THAN 6"

X TYPICAL THIS SYMBOL



TYPICAL HANGER DETAILS

SYSTEMS PIPING WILL BE SUPPORTED AND BRACED WITH HANGERS IN ACCORDANCE WITH NFPA-13 AND TRUSS MANUFACTURER'S REQUIREMENTS. N.T.S.

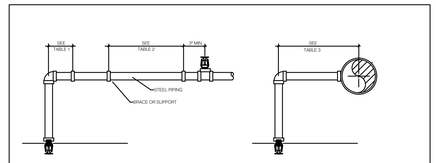


TABLE 1
MAXIMUM SUPPORT SPACING DISTANCE, END OF LINE TO SPRINKLER HEAD DROP

PIPE SIZE	SYTEM PRESSURE	
	< 100 PSI	>100 PSI
1"	36"	12"
1-1/4"	48"	12"
1-1/2" - 4"	60"	12"

TABLE 2
MAXIMUM SUPPORT SPACING DISTANCE LINES AND MAINS

PIPE SIZE	PIPE SCHED.		
	30	40	10
1" - 1-1/4"	12'	12'	12'
1-1/2" - 3"	12'	15'	15'
4"	N/A	15'	15'

TABLE 3
WITHOUT SUPPORT ARMOVER TO SPRINKLER HEAD

PIPE SIZE	SYSTEM PRESSURE	
	< 100 PSI	>100 PSI
1"	24"	12"

STEEL PIPE HANGER SPACING

GENERAL FIRE SPRINKLER NOTES

1. ALL DESIGN, MATERIALS AND INSTALLATION OF THIS FIRE SPRINKLER INSTALLATION SHALL COMPLY WITH NFPA 13 AND ALL STATE AND LOCAL FIRE CODE REQUIREMENTS.

2. THE SCOPE OF WORK FOR THIS PROJECT IS THE INSTALLATION OF SPRINKLERS AT NEW BUILDING (SEE PLANS).

3. ALL NEW PIPING SHALL COMPLY WITH CHICK-FIL-A SPECIFICATIONS AND BE LISTED FOR FIRE PROTECTION USE.

4. ALL MATERIAL USED IN THE INSTALLATION OF THIS SYSTEM INSTALLATION SHALL BE NEW AND OF CURRENT ISSUE. ALL MATERIAL SHALL BE APPROVED BY UNDERWRITERS LABORATORIES (U.L.) AND BE IN CONFORMANCE WITH THE ADOPTED ISSUE OF NFPA 13 AND THE AUTHORITY HAVING JURISDICTION.

5. ALL SYSTEM PIPING SHALL BE HYDROSTATICALLY TESTED AS REQUIRED BY AHJ.

6. ONE SET OF STAMPED APPROVED DRAWINGS SHALL BE MAINTAINED ON SITE AND MADE AVAILABLE AT THE REQUEST OF THE INSPECTOR.

7. ALL NEW SPRINKLERS SHALL BE QUICK RESPONSE.

8. SPRINKLER CONTRACTOR SHALL VERIFY ALL INFORMATION CONTAINED ON THESE DRAWINGS PRIOR TO COMMENCING ANY FABRICATION OR INSTALLATION. SPRINKLER CONTRACTOR SHALL VERIFY ACTUAL FIELD CONDITIONS TO ENSURE SPRINKLER COVERAGE IS COMPLETE AND PER CODE REQUIREMENTS. SPRINKLER CONTRACTOR SHALL FIELD FIT OR ADJUST PIPING AND/OR SPRINKLER HEADS WHERE REQUIRED TO MEET FIELD CONDITIONS. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR DETECTING OMISSIONS BY THE ENGINEER OR ANY CHANGES MADE IN THE ARCHITECTURAL DRAWINGS.

9. THE INSTALLING CONTRACTOR IS RESPONSIBLE TO REVIEW ALL PLANS AND BECOME FAMILIAR WITH AND ACCOUNT FOR ANY COORDINATION ISSUES, INCLUDING PIPE ELEVATIONS PRIOR TO SUBMITTING A BID. CHANGE ORDERS WILL NOT BE ACCEPTED FOR COORDINATION REVISIONS IN ORDER TO INSURE PROPER INSTALLATION OR MEET ANY AND ALL NATIONAL AND LOCAL CODE REQUIREMENTS.

10. THE FIRE SPRINKLER CONTRACTOR SHALL VISIT THE SITE AND BECOME KNOWLEDGEABLE OF THE EXISTING CONDITIONS THEREIN. SHOULD CONDITIONS BE FOUND, WHICH THE CONTRACTOR BELIEVES WILL IMPEDE HIS WORK, THEN SUCH CONDITIONS MUST BE REPORTED IMMEDIATELY TO THE OWNER. FAILURE TO DO SO SHALL CONSTITUTE NOTICE THAT HE IS FULLY AWARE AND SATISFIED OF THE EXISTING CONDITIONS AND THAT WORK SHALL BE PERFORMED WITH NO ADDITIONAL IMPACT ON COST OR SCHEDULE.

11. ELEVATIONS AND DIMENSIONS SHOWN ON THESE DRAWINGS ARE NOMINAL. ACTUAL MEASUREMENTS MAY VARY AND SHALL BE DETERMINED BY THE INSTALLING CONTRACTOR.

DEFINITIONS

WORKING DRAWINGS	DRAWINGS DEVELOPED BY THE ENGINEERING FIRM WHICH REPRESENT THE DESIGN CONCEPTS AND RESTRICTIONS OF THE FIRE SPRINKLER SYSTEM.
SHOP DRAWINGS	DRAWINGS DEVELOPED BY THE CONTRACTOR, BASED UPON THE DESIGN CONCEPTS, WHICH DETAIL THE LAYOUT, COORDINATION AND INSTALLATION OF THE SPRINKLER SYSTEM. THIS INCLUDES SUPPLEMENTAL HYDRAULIC CALCULATIONS IF NECCESSARY.
AS BUILT DRAWINGS	UPDATED SHOP DRAWINGS, MAINTAINED BY THE CONTRACTOR, WHICH REPRESENT ACTUAL INSTALLATION.

INVESTIGATION OF CONDITIONS

EXAMINE THE CONTRACT DRAWINGS AND ALL AVAILABLE INFORMATION CONCERNING EXISTING INSTALLATION, STRUCTURE, AND LOCAL CONDITIONS. VISIT THE SITE TO UNDERSTAND THE NATURE AND SCOPE OF ALL WORK TO BE PERFORMED AND VERIFY EXISTING CONDITIONS. THE SUBMISSION OF A BID WILL BE TAKEN AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND THAT ALL EXISTING CONDITIONS HAVE BEEN CONSIDERED. NOTIFY ENGINEER IF ANY DISCREPANCIES OR CONFLICTS ARE OBSERVED.

100 PSI HANGER NOTES

UNSUPPORTED LENGTH WITH MAXIMUM PRESSURE EXCEEDING 100 PSI.

THE HANGER ASSEMBLY SUPPORTING THE PIPE SUPPLYING AN END SPRINKLER IN A PENDENT POSITION SHALL BE OF A TYPE THAT PREVENTS UPWARD MOVEMENT OF THE PIPE.

THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER IN A PENDENT POSITION OR DROP NIPPLE AND THE LAST HANGER ON THE BRANCH LINE SHALL NOT BE GREATER THAN 12 IN. FOR STEEL PIPE.

iLevel Trus Joist Commercial Sprinkler Installation guide COM-1000

① 2x6 x 18" long minimum, resting on bottom flange

② 3/8" diameter machine bolts with 1" washers-cinch tight (two per joist)

③ Two 16d (3 1/2") common nails per end

④ 4x6 minimum No. 2 grade Douglas fir or southern pine hanger block as required. See Table A

⑤ Fastener as required. See Table B. Locate fastener approximately 1" from the top of the block.

⑥ Side Beam Bracket

⑦ 3/8" rod and ring

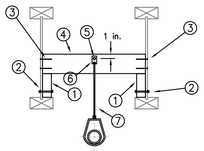
TABLE A

Distance between TJI joists	Wood Hanger Block Size
32" or less	4x4 (*)
48"	4x6
96"	4x8

(*) For sprinkler main lines, wood hanger block size is 4x6 for 32" or less spacing

TABLE B

Pipe Size	Fastener
up to 2"	3/8 x 3" lag
up to 3"	1/2 x 3" lag
up to 5"	1/2" machine bolt
up to 6"	5/8" machine bolt



THE FIRE SPRINKLER CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND APPLY AND PAY FOR SEPERATE PERMITS UNDER THE REQUIREMENTS SET FORTH IN THESE CONCEPT DRAWINGS. THE SHOP DRAWINGS SHALL INCLUDE HYDRAULIC CALCULATIONS AND CURRENT FLOW TEST, PIPE SIZES, PIPE LOCATIONS, SPRINKLER HEADS MFGR, PIPE HANGING DETAILS, ARM OVER DETAILS AND ANY OTHER INFORMATION PERTINENT TO A COMPLETE FIRE SPRINKLER INSTALLATION IN ACCORDANCE WITH ALL LOCAL, OWNER AND NFPA REQUIREMENTS.

SCOPE OF WORK / HAZARD ANALYSIS

THIS WET PIPE FIRE SPRINKLER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CONDITIONS SET FORTH BY THE OWNER AND SHALL COMPLY WITH THE MINIMUM REQUIREMENTS OF THE WOODBRIDGE CODE REQUIREMENTS. FIRE SPRINKLER CONTRACTOR POINT OF CONNECTION TO BE AT FLANGE/CONNECTION AT BASE OF RISER.

NEW SYSTEM RISER SHALL SERVE NEW ONE STORY COMMERCIAL BUILDING. RISER TO BE EQUIPPED WITH A WATER FLOW SWITCH AND A CONTROL VALVE TAMPER SWITCH.

ELECTRIC WIRING WORK TO BE PERFORMED BY ELECTRIC CONTRACTOR. UNDERGROUND PIPING WORK TO BE PERFORMED BY SITE UTILITY CONTRACTOR.

ADOPTED CODE: NEW JERSEY UNIFORM FIRE CODE

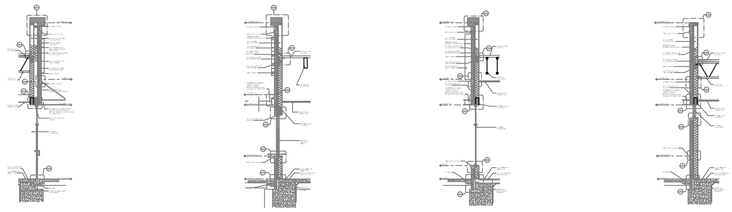
OCCUPANCY USE GROUP: A-2 RESTAURANT AND DINING
CONSTRUCTION TYPE: V-B SPRINKLERED
BUILDING AREA: 4,947 SQ. FT.

DESIGN IN ACCORDANCE WITH NFPA 13
DENSITY:
.15 DENSITY FOR KITCHEN/FOOD PREP (ORDINARY HAZARD GROUP I)
.10 DENSITY FOR DINING AND ATTIC (LIGHT HAZARD OCCUPANCY)
AREA: 1500 SQ FT (AREA REDUCTION ALLOWED FOR QUICK RESPONSE HEADS)
HOSE ALLOWANCE: 250 GPM

SPACING:
130 SQ FT MAX. FOR KITCHEN/FOOD PREP (ORDINARY HAZARD GROUP I / UNOBSTRUCTED)
130 SQ FT MAX. FOR UNUSED ATTIC (LIGHT HAZARD / OBSTRUCTED)
225 SQ FT MAX. FOR DINING AREA (LIGHT HAZARD / UNOBSTRUCTED)

INCIDENTAL MISC. STORAGE SHALL NOT EXCEED 8-0 IN HEIGHT.

CONCEPTUAL DRAWINGS, NOT TO BE USED FOR CONSTRUCTION PURPOSES.

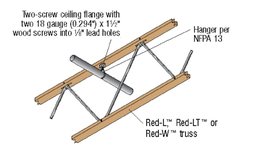


SECTION

1/8" = 1'-0"

OPEN-WEB TRUSS SPRINKLER DETAILS

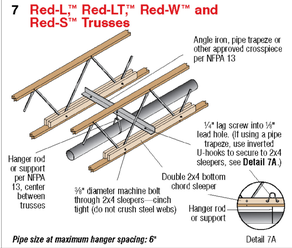
1 All RedBuilt™ Open-Web Trusses



- For Red-L™ Red-LT™ and Red-W™ trusses, screws must line up along the center of the chord ± ½" tolerance.
- For all double chord trusses, one screw must be positioned in the center of each chord ± ¼" tolerance.

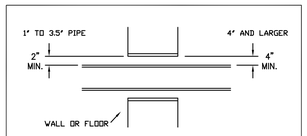
Pipe size at maximum hanger spacing: 2"

7 Red-L™, Red-LT™, Red-W™ and Red-S™ Trusses



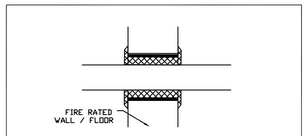
Pipe size at maximum hanger spacing: 6"

Detail 7A



PIPE CLEARANCE DETAIL

PIPE CLEARANCE SHALL BE IN ACCORDANCE WITH NFPA, OWNER AND AHJ. REQUIREMENTS



1) APPLY FIRESTOPPING MATERIALS IN ACCORDANCE WITH PRODUCT MANUFACTURER INSTRUCTIONS.

FIRESTOPPING DETAIL/RATED WALL

PIPE SLEEVE ASSEMBLY SHALL BE IN ACCORDANCE WITH OWNER AND AHJ. REQUIREMENTS COMMENSURATE WITH WALL RATING

9.3.4.2
Unless the requirements of 9.3.4.3 through 9.3.4.7 are met, where pipe passes through holes in platforms, foundations, walls, or floors, the holes shall be sized such that the diameter of the holes is nominally 2 in. (50 mm) larger than the pipe for pipe 1 in. (25 mm) nominal to 3 1/2 in. (90 mm) nominal and 4 in. (100 mm) larger than the pipe for pipe 4 in. (100 mm) nominal and larger.

9.3.4.3
Where clearance is provided by a pipe sleeve, a nominal diameter 2 in. (50 mm) larger than the nominal diameter of the pipe shall be acceptable for pipe sizes 1 in. (25 mm) through 3 1/2 in. (90 mm), and the clearance provided by a pipe sleeve of nominal diameter 4 in. (100 mm) larger than the nominal diameter of the pipe shall be acceptable for pipe sizes 4 in. (100 mm) and larger.

9.3.4.4 No clearance is required for piping passing through gysum board or equally frangible construction that is not required to have a fire resistance rating.

9.3.4.5 No clearance is required if flexible couplings are located within 1 ft (305 mm) of each side of the wall, floor, platform, or foundation.

9.3.4.6 No clearance is required where horizontal piping passes perpendicularly through successive studs or joists that form a wall or floor/ceiling assembly.

FIRE PROTECTION SYMBOLS

SYMBOL	DESCRIPTION
●	PENDENT TYPE SPRINKLER (SEE SPRINKLER LEGEND)
○	UPRIGHT TYPE SPRINKLER (SEE SPRINKLER LEGEND)
▶	SIDEWALL TYPE SPRINKLER (SEE SPRINKLER LEGEND)
——	2-WAY SWAY BRACE
—+—	4-WAY SWAY BRACE
⊕	FIRE SPRINKLER SYSTEM RISER
	INSPECTOR'S TEST CONNECTION AND/OR DRAIN
D / L	VALUE IN LOCATION 'D' = DIAMETER OF PIPE NEW PIPING; VALUE IN LOCATION "L" = LENGTH OF PIPE
(E)	EXISTING PIPING
	PIPE HANGER LOCATIONS
	RISE OR DROP IN PIPING w/TEE
	RISE OR DROP IN PIPING w/ELBOW

SHEET INDEX

FP2.1	FIRE SPRINKLER DETAILS AND NOTES
FP2.2	FIRE SPRINKLER LAYOUT AND PIPING

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320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT
1	7-22-22	DESIGN NOTES

PERMIT

CONSULTANT PROJECT # 04591
PRINTED FOR PERMIT
DATE 4/12/22
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SHEET
FIRE SPRINKLER NOTES AND DETAILS

SHEET NUMBER
FP2.1

1. NEW SYSTEM RISER (SEE DETAIL THIS SHEET)

2. INSPECTOR'S TEST VALVE @ 7'-0" MAX. A.F.F. w/ 1/2" SMOOTH BORE, NON-CORROSIVE ORIFICE PIPED TO DISCHARGE OUTSIDE OF BUILDING

3. ELECTRIC HORN/STROBE WIRED BY ELECTRICAL CONTRACTOR

4. 2.5 x 2.5 x 4" FDC AT +- 36" ABOVE FINISH GRADE (4 FT MIN. DRY PIPE TO CHECK VALVE). REMOTE FIRE DEPARTMENT CONNECTION TO COMPLY WITH LOCAL JURISDICTION CODE REQUIREMENTS. SEE CIVIL PLANS FOR COORDINATED LOCATION.

5. NO SPRINKLERS AT NON-COMBUSTIBLE OVERHANG. AREA BELOW MAY NOT BE USED FOR STORAGE OR HANDLING OF COMBUSTIBLES.

8.14.7• Exterior Roofs or Canopies.

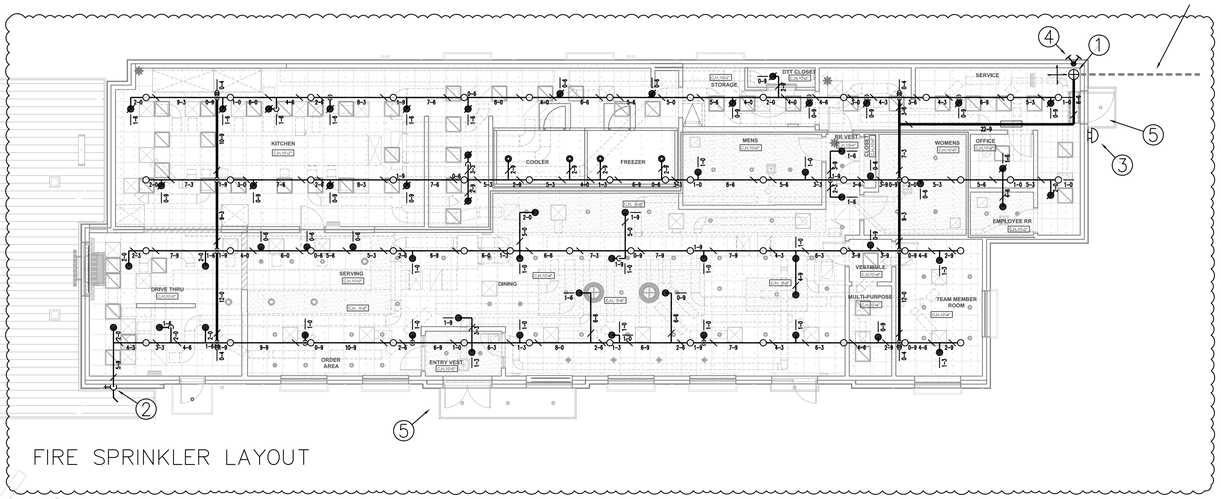
8.14.7.1 Unless the requirements of 8.14.7.2 or 8.14.7.3, are met, sprinklers shall be installed under exterior roofs or canopies exceeding 4 ft (1.2 m) in width.

8.14.7.2• Sprinklers shall be permitted to be omitted where the canopy or roof is of noncombustible or limited-combustible construction.

6. NEW OMD CANOPY, ADD DRY SYSTEM OR EQUIVALENT PROTECTION TO COMPLY WITH LOCAL JURISDICTION IF REQUIRED.

7. NEW F2F CANOPY ON SITE (SEE SITE PLAN FOR LOCATION) ADD DRY SYSTEM OR EQUIVALENT PROTECTION TO COMPLY WITH LOCAL JURISDICTION IF REQUIRED.

UNDERGROUND PIPING TO BE INSTALLED IN ACCORDANCE WITH NFPA 24 AND LOCAL JURISDICTION REQUIREMENTS. LOCATION OF BACKFLOW DEVICE, FDC, FIRE HYDRANTS AND ALL OTHER DEVICES SHALL BE COORDINATED WITH OWNER AND LOCAL JURISDICTION. SEE CIVIL DRAWINGS FOR FIRE LINE ROUTING, DETAILS AND CONNECTION TO WATER SUPPLY SOURCE. SPRINKLER CONTRACTOR SHALL PERFORM SPRINKLER SYSTEM HYDRAULIC CALCULATIONS WHICH INCORPORATE THE COORDINATED PIPING, ROUTING AND ALL DEVICES AND SHALL TERMINATE AT WATER SUPPLY FLOW TEST POINT.

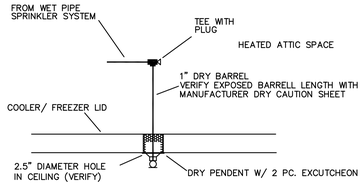


FIRE SPRINKLER LAYOUT

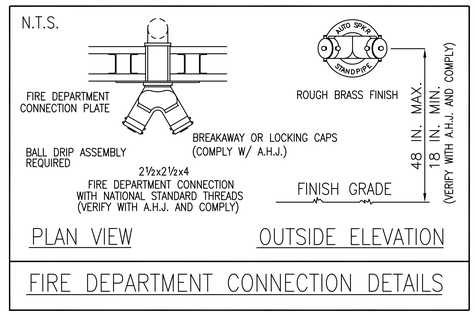
INSTALLATION PROCEDURE

1. DRILL 2.5" DIAMETER HOLE IN THE INSULATED CEILING. LOCATE HOLE AND REQUIRED SPRINKLER PROTECTION IN ACCORDANCE WITH NFPA 13 OBSTRUCTION CRITERIA (SSP TYPE SPRINKLERS).

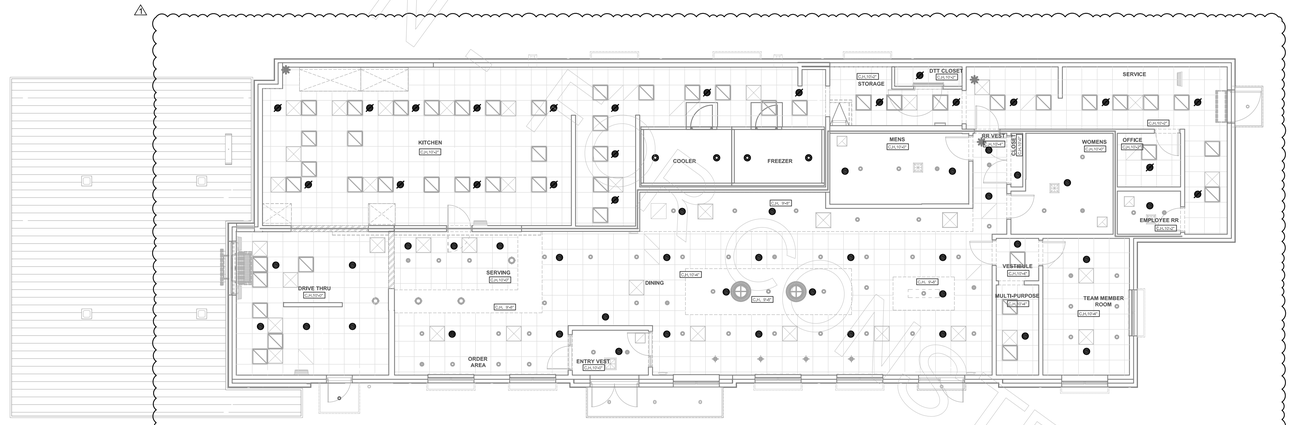
INSTALL DRY PENDENT SPRINKLER PER MANUFACTURERS INSTALLATION REQUIREMENTS.



DRY PENDENT SPRINKLER

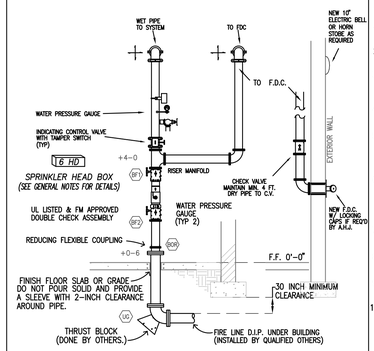


FIRE DEPARTMENT CONNECTION DETAILS



REFLECTED CEILING PLAN

THIS WATER FILLED WET PIPE SPRINKLER SYSTEM, COMPONENTS, SPRINKLERS AND PIPING SHALL BE PROTECTED FROM FREEZING. TEMPERATURE AT OCCUPIED AREAS AND SPACES ABOVE CEILINGS WITHIN THE BUILDING ENVELOPE AND RISER ROOM SHALL BE MAINTAINED AT OR ABOVE 40f.



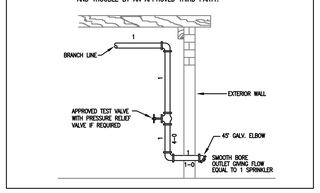
FIRE SPRINKLER RISER DETAIL

RISER GENERAL NOTES

1) SEE FIRE SPRINKLER RISER LOCATION ON THIS SHEET.
2) ALL ELECTRICAL WIRING SHALL BE DONE BY QUALIFIED OTHERS.
3) ANY SPRINKLER SYSTEM WITH 20 OR MORE HEADS SHALL BE MONITORED FOR FLOW, TAMPER, AND TROUBLE BY AN APPROVED THIRD PARTY.
4) ALL VALVES SHALL NOT BE MORE THAN SEVEN FEET ABOVE FINISHED FLOOR.
5) FIRE DEPARTMENT CONNECTION IS 2½x2½x4 WITH NAT. STD. THREADS AND CHECK VALVE SHALL BE LOCATED AS CLOSE TO FIRE DEPARTMENT CONNECTION AS POSSIBLE.
6) UNDERGROUND FIRE LINE PIPING IS SHOWN FOR REFERENCE ONLY. THESE FIRE SPRINKLER PLANS SHALL BE LIMITED TO ABOVEGROUND PIPING AND SHALL BEGIN WORK APPROXIMATELY 6-INCHES ABOVE FINISH FLOOR AT BASE OF SUPPLY FLANGE.
7) FIRE ALARM CONTROL / MONITOR PANEL SHALL BE PROVIDED BY OTHERS
8) INSPECTOR'S TEST SHALL BE SUPPLIED FROM AT OWNER/AHJ APPROVED LOCATION.
9) PROVIDE ALL NECESSARY PIPE STANDS AND RISER SUPPORT IN ACCORDANCE WITH NFPA
10) PROVIDE HYDRAULIC CALC PLATE IN ACCORDANCE WITH NFPA 13

INSPECTORS TEST NOTES

1) INSPECTORS TEST VALVE SHALL NOT BE MORE THAN SEVEN FEET MAXIMUM ABOVE FINISH FLOOR.
2) ANY SPRINKLER SYSTEM WITH 20 OR MORE HEADS SHALL BE MONITORED FOR FLOW, TAMPER, AND TROUBLE BY AN APPROVED THIRD PARTY.



SPRINKLERS SHALL BE LOCATED A MINIMUM OF 4" FROM A WALL
#401 CANOPIES MAY BE USED TO CLEAR SURFACE MOUNTED LIGHT FIXTURES

SPRINKLER LEGEND

SYMBOL	SPRINKLER	K-FAC	THREAD	TEMP.	TYPE	FINISH	QTY.
⊕	TYCO TY-FRB SSP TY3231	5.6	1/2"	155	QR SSP ON 1" DROP - RECESSED	WHITE	22
●	TYCO RF-II SSP TY3531	5.6	1/2"	155	QR SSP ON 1" DROP - CONCEALED	WHITE	37
⊠	TYCO TY-FRB SSP TY3231	5.6	1/2"	200	QR SSP ON 1" DROP - RECESSED	WHITE	0
◐	TYCO DS-1 TY3235	5.6	1/2"	200°	QR DRY SSP ON 1 TEE/PLUG	WHITE	4
○	TYCO TY-FRB SSU TY3131	5.6	1/2"	200°	QR SSU ON BRANCH LINE PIPING	BRASS	53
	TOTAL NEW SPRINKLERS THIS JOB				TOTAL =		116

LOCATIONS OF ALL DEVICES, COMPONENTS, PIPING AND ROUTING TO BE COORDINATED WITH OWNER, AHJ, AND ALL OTHER TRADES FOR A FULLY FUNCTIONING AND OPERATIONAL FIRE SPRINKLER SYSTEM. SYSTEM SHALL BE TESTED, APPROVED AND CERTIFIED TO BE IN COMPLIANCE WITH OWNER AND AHJ REQUIREMENTS

FIRE SPRINKLER PLAN

SCALE: 1/8" = 1'-0"

2' 8' 0' 4' 16'

CFA FIRE SPRINKLER NOTES

1. PROVIDE SUPERVISED AUTOMATIC FIRE SPRINKLER SYSTEM PER 2018 INTERNATIONAL FIRE CODE. FIRE SPRINKLER SHOP DRAWINGS SHALL BE PREPARED BY FIRE SPRINKLER SUBCONTRACTOR.
2. PROVIDE SPRINKLER SYSTEM WHEN REQUIRED BY 2018 INTERNATIONAL BUILDING CODE AND LOCATE RISER AS INDICATED IN ARCH/PLUMB PLANS.
3. NO SPRINKLER PIPING TO BE EXPOSED/RAN THROUGH OR ABOVE THE UNHEATED SERVICE YARD AREA AT THE REAR OF THE BUILDING.
4. INSTALL PROTECTION CAGES TO THE SPRINKLER HEADS IN THE WALK-IN COOLER AND FREEZER.
5. SPRINKLER HEADS IN CEILING TILES ARE TO BE CENTERED IN THE TILES.
6. SPRINKLER HEADS IN PUBLIC AREAS TO BE FULLY RECESSED AND CONCEALED WITH A COVER (ACOUSTICAL AND SHEET ROCK CEILINGS). ALL COVERS WILL BE WHITE WHEN THE CEILING IS WHITE. WHEN CEILING COLOR IS OTHER THAN WHITE, COVER FINISH TO BE COORDINATED WITH CHICK-FIL-A.
7. SPRINKLER HEADS IN NON-PUBLIC AREAS (KITCHEN, OFFICE, MULTIPURPOSE ROOMS) SHALL BE WHITE FINISH, WITH ESCUTCHEON COLOR TO MATCH. WHEN CEILING COLOR IS OTHER THAN WHITE, FINISHES TO BE COORDINATED WITH CHICK-FIL-A.
8. SPRINKLER PIPE HANGERS AND ATTACHMENTS SHALL MEET REQUIREMENTS OF THE JOIST MANUFACTURER.
9. SPRINKLER DRAIN LINE "BLOW OFF" TO EXTERIOR SHALL BE ROUTED WITH REQUIRED FALL TO THE REAR OF THE BUILDING.
10. STAINLESS FLEXIBLE CONNECTORS TO BE USED TO CONNECT THE SPRINKLER HEADS (MEANING THAT THE CONNECTORS ARE MORE ARE MORE EXPENSIVE BUT THE INSTALLATION IS MUCH QUICKER THAN DOING HARD PIPE WITH TWO SWING JOINTS, PLUS IT IS A SIMPLE ADJUSTMENT WITH THESE FLEX HOSES).
11. ALL SPRINKLER HEADS TO BE FULLY CONCEALED IN ALL CUSTOMER AREAS, AND CUSTOMER VIEW AREAS (ACOUSTIC AND HARD CEILINGS).
12. INSTALL BRAIDED STAINLESS STEEL FLEXIBLE DROPS TO SPRINKLER HEADS IN CEILINGS STANDARD (UNLESS PROTECTION DISTRICT DOES NOT ALLOW). INCORPORATE SEISMIC REQUIREMENTS IN EARTHQUAKE/SEISMIC RATED AREAS.

WET SYSTEM PIPE INSIDE DIAMETERS

LINE TYPE SEE PLANS

MATERIAL: DYNA-THREAD		HWC: 120
1-INCH PIPE	=	1.080
1 1/4-INCH PIPE	=	1.408
1 1/2-INCH PIPE	=	1.639
2-INCH PIPE	=	2.104
MATERIAL: DYNA-FLOW		HWC: 120
2 1/2-INCH PIPE	=	2.703
3-INCH PIPE	=	3.314
4-INCH PIPE	=	4.310
MATERIAL: DIRON		HWC: 140
6-INCH PIPE	=	6.280

CONSULTANT

STRONG
Strong Systems International, Inc.

3100 NORTHWOODS PLACE, SUITE B
PEACHTREE CORNERS, GA 30071
PHONE: (770) 729-1199 FAX: (770) 729-9988

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
	01/26/2022	ISSUED FOR PERMIT
1	7-22-22	DESIGN NOTES

CONSTRUCTION

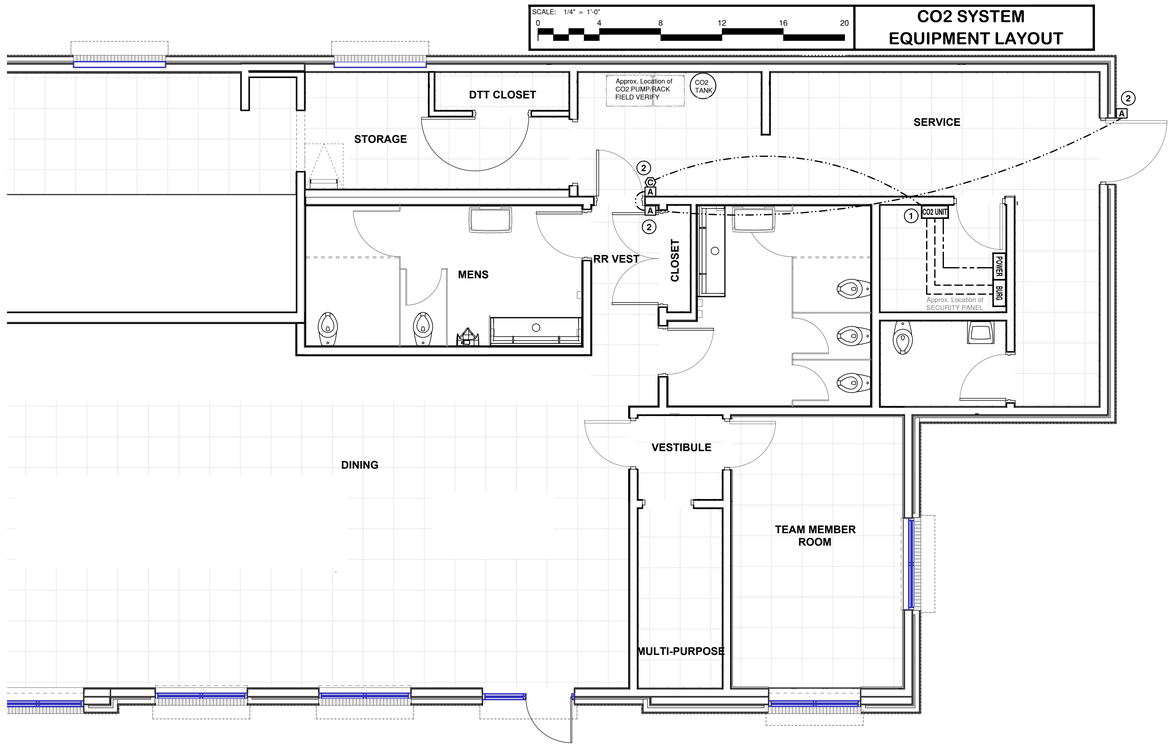
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PRINTED FOR CONSTRUCTION
DATE 9/06/22
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SHEET
FIRE SPRINKLER LAYOUT AND PIPING

SHEET NUMBER
FP2.2

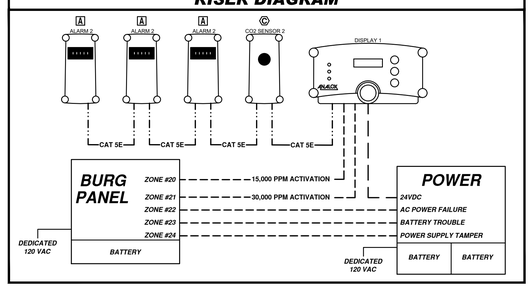
NOT FOR CONSTRUCTION



EQUIPMENT LIST

TYPE	MANUFACTURER	PART NUMBER	DESCRIPTION	QTY
POWER SUPPLY	ALTRONIX	AL300ULX	24VDC POWER PANEL	1
BATTERY	ENERSYS	NP7-12	12 VOLT 7 AMP HOUR STORAGE BATTERY	2
CO2	ANALOX	AX-60+	CO2 CONTROL UNIT	1
DETECTOR	ANALOX	AX-60+ ANNUNCIATOR	ANNUNCIATOR	3
CO2 DETECTOR	ANALOX	AX-60+ CO2 SENSOR	CO2 SENSOR	1
SIGNAGE	ANALOX	AX60+ SIGNAGE PACK	ALERT SIGNAGE	1

RISER DIAGRAM



WIRE SCHEDULE

LINE TYPE	TYPE	CIRCUIT DESCRIPTION
— · — · — · —	CAT5 E	CO2 CIRCUIT
——— ‖ ——— ‖ ———	2C/#16 - CL2	24VDC POWER
— — — — — — —	2C/#16 -FPL	INDICATING CIRCUIT

EXAMPLE : 2C/#16 - CL2
——— LINE TYPE SHOWN ON THE FLOOR PLAN TO IDENTIFY CABLE
2C = TWO CONDUCTOR SOLID CABLE
#16 = GAUGE OF WIRE (#16 AWG)
CL2 = SECURITY CABLE

SYMBOL LEGEND

SYMBOL	DESCRIPTION
CO2 UNIT	*CO2 CONTROL DISPLAY*
POWER	*POWER PANEL*
BURG	*BURGLAR PANEL*
C	*CO2 DETECTOR*
A	*ANNUNCIATOR/ ALARM UNIT*

NOTE

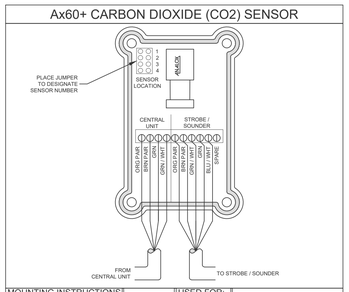
SEQUENCE OF OPERATIONS

INPUTS AND ACTIONS

CO2 SYSTEM SIGNAL SENT TO CENTRAL STATION MONITORING FOR OWNER NOTIFICATION ONLY NO EMERGENCY UNITS WILL BE NOTIFIED FOR DISPATCH

OUTPUTS AND CONTROLS	POWER SUPPLY TAMPER SWITCH	POWER SUPPLY BATTERY FAILURE	POWER SUPPLY AC POWER FAILURE	CO2 LEVEL AT 15,000 PPM ACTIVATION	CO2 LEVEL AT 30,000 PPM ACTIVATION
OPERATE ALL CO2 ANNUNCIATOR SOUNDERS AND STROBES		●			
OPERATE CO2 ANNUNCIATOR STROBE	●				
SEND CO2 ALARM SIGNAL TO CENTRAL STATION MONITORING VIA BURG PANEL		●			
SEND CO2 SUPV SIGNAL TO CENTRAL STATION MONITORING VIA BURG PANEL	●				
SEND TROUBLE SIGNAL TO CENTRAL STATION MONITORING VIA BURG PANEL			●	●	●

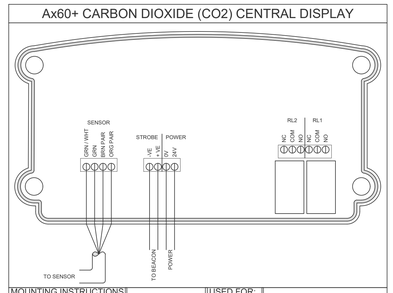
Ax60+ CARBON DIOXIDE (CO2) SENSOR



MOUNTING INSTRUCTIONS
DRILL HOLES IN WALL. INSTALL WALL PLUGS/DOWELS THEN FIT THE CO2 SENSOR, 12" ABOVE FINISHED FLOOR.

USED FOR:
AX60 CARBON DIOXIDE (CO2) SENSOR

Ax60+ CARBON DIOXIDE (CO2) CENTRAL DISPLAY

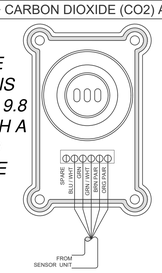


MOUNTING INSTRUCTIONS
DRILL HOLES IN WALL. INSTALL WALL PLUGS/DOWELS THEN FIT THE CO2 DISPLAY, 60" ABOVE FINISHED FLOOR.

USED FOR:
ANALOX AX60 CENTRAL DISPLAY

Ax60+ CARBON DIOXIDE (CO2) ALARM

DEVICE RATING IS 80DBA AT 9.8 FEET WITH A 100 CD STROBE



MOUNTING INSTRUCTIONS
DRILL HOLES IN WALL. INSTALL WALL PLUGS/DOWELS THEN FIT THE CO2 ALARM, 60" ABOVE FINISHED FLOOR.

USED FOR:
AX60 CARBON DIOXIDE (CO2) ALARM

SIGN LOCATION REQUIREMENT

NFPA 704 4.3
4.3 * LOCATION OF SIGNS.

SIGNS SHALL BE IN LOCATIONS APPROVED BY THE AUTHORITY HAVING JURISDICTION AND AS A MINIMUM SHALL BE POSTED AT THE FOLLOWING LOCATIONS:

1. TWO EXTERIOR WALLS OR ENCLOSURES CONTAINING A MEANS OF ACCESS TO A BUILDING OR FACILITY
2. EACH ACCESS TO A ROOM OR AREA
3. EACH PRINCIPAL MEANS OF ACCESS TO AN EXTERIOR STORAGE AREA

SIGN ①

AX60+ Safety System

WHAT TO DO IN CASE OF ALARM

PRESS THE ACCEPT/TEST BUTTON TO SILENCE ALARMS, IF IT IS SAFE TO DO SO CHECK THE TABLE BELOW TO DETERMINE THE COURSE OF ACTION

DISPLAY (CO2)	ACTION	DISPLAY (O2)
PPMHA OK ---.- CO2 5000 PPM	Open exterior doors and windows to ventilate the area Look for the leak and remedy The PPM alarm will clear when the average CO_2 levels are under 5000PPM over an 8 hour period. If TWA does not resolve in a 24 hour period, contact service at ----------	ALG Disabled O2
OK ALG ---.- CO2 5000 PPM	Open exterior doors and windows to ventilate the area Look for the leak and remedy If the reading does not remain under 5000 PPM for CO_2 or above 19.5% for O_2, call service at ----------	OK ALG ---.- O2 19.5 %
ALG OK ---.- CO2 5000 PPM	Open exterior doors and windows to ventilate the area Shut off the gas supply Look for the leak and remedy If the reading does not remain under 15000 PPM for CO_2 or below 25% for O_2 evacuate the area and call service at ---------- To silence the flashing strobe, press and hold the green Accept/Test until it beeps back 1 time	ALG OK ---.- O2 23 %
OK ALG ---.- CO2 30000 PPM	**IMMEDIATELY LEAVE OR DO NOT ENTER THE RISK ZONE.** **LEAVE EXTERIOR DOORS OPEN FOR VENTILATION** **CALL CO2/O2 SERVICE PROVIDER FROM OUTSIDE THE RISK AREA.** Call service at ----------	OK ALG ---.- O2 18 %
ALG ALG ---.- CO2 5,000ppm PLS	Call service at ----------	

Installer: Complete these boxes before attaching this sign next to the Control Display

Sensor ID	Gas Type	Location
1		
2		
3		
4		

System Test
Hold Accept/Test button until "TESTING ALARM" appears
All alarms should flash & sound for 5 seconds.

ANALOX
P2133-AX2+

www.analox.net

SIGN ②

WARNING

CO_2 ALARM

STROBE / HORN	ACTIONS
CO2 PRE-WARNING SLOW BEEP/STROBE FLASHING	1. Ventilate - Open Exterior Door 2. Go to Ax60+ Central Display 3. Press Green **ACCEPT/TEST** button to silence alarm 4. Follow directions on **What to do** sign for ALL **CO2 PPM** or **ALL 19.5% PPM.**
CO2 DANGER ALERT FAST BEEP/ALL STROBES FLASHING	**IMMEDIATELY LEAVE OR DO NOT ENTER THE RISK ZONE.** **LEAVE EXTERIOR DOORS OPEN FOR VENTILATION** **CALL CO2 SERVICE PROVIDER FROM OUTSIDE THE RISK AREA.**
LATCHED ALARM STROBES FLASHING/NO HORN	Go To Control Display Press & hold the Green **ACCEPT/TEST** to release alarm.

For service contact:

ANALOX
P0159-44K2-00

DIRECTION FOR LOCATING DETECTION AND ALARMING DEVICES

1. INTERIOR BULK CO2 TANK OR CYLINDERS (IF APPLICABLE)

1.1. DETECTOR MOUNTED AT 12" AFF AND WITHIN 15FT OF THE TANK.
1.2. IF TANK AND BIB RACK ARE IN SAME AREA AND WITHIN 30FT OF ONE ANOTHER, ONE DETECTOR MAY BE USED TO SERVE BOTH.
1.3. THE DETECTOR MUST NOT BE LOCATED ANY CLOSER THAN 5FT FROM THE BIB RACK.
1.4. ANNUNCIATOR AT TANK MOUNTED AT 60" AFF.
1.5. ANNUNCIATOR AT EACH DOOR LEADING INTO AREA WHERE TANK IS STORED MOUNTED AT 60" AFF.
1.6. IF TANK AND BIB RACK IN SAME AREA, ONE ANNUNCIATOR MAY BE USED IF VISIBLE TO BOTH TANK/BIB (THIS DOES NOT SUPERSEDE OR CHANGE ITEM 1.4).
1.7. SIGNAGE FOR ANNUNCIATOR MOUNTED AT 65" AFF TO CENTER.

2. CARBONATORS AND SYRUP PUMPS AT BIB RACK

2.1. DETECTOR MOUNTED AT 12" AFF AND WITHIN 15FT OF CARBONATORS/PUMPS.
2.2. THE DETECTOR MUST NOT BE LOCATED ANY CLOSER THAN 5FT FROM THE BIB RACK.
2.3. IF TANK AND BIB RACK ARE IN SAME AREA AND WITHIN 30FT OF ONE ANOTHER, ONE DETECTOR MAY BE USED TO SERVE BOTH.
2.4. ANNUNCIATOR AT BIB RACK MOUNTED AT 60" AFF.
2.5. IF TANK AND BIB RACK IN SAME AREA, ONE ANNUNCIATOR MAY BE USED IF VISIBLE TO BOTH TANK/BIB.
2.6. SIGNAGE FOR ANNUNCIATOR MOUNTED AT 65" AFF TO CENTER.

3. CONTROL UNIT

3.1 CONTROL UNIT MOUNTED IN APPROVED LOCATION AT 60" AFF TO CENTER.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

CONSULTANT
STRONG
Strong Systems International, Inc.
3100 NORTHWOODS PLACE, SUITE B
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PHONE: (770) 729-1199 FAX: (770) 729-9988

CHICK-FIL-A
WEST POND FSU

320 US HIGHWAY 9 N
WOODBRIDGE, NJ 07095-1004

FSU#04591

BUILDING TYPE / SIZE: P13 LE
RELEASE: 21.11

REVISION SCHEDULE

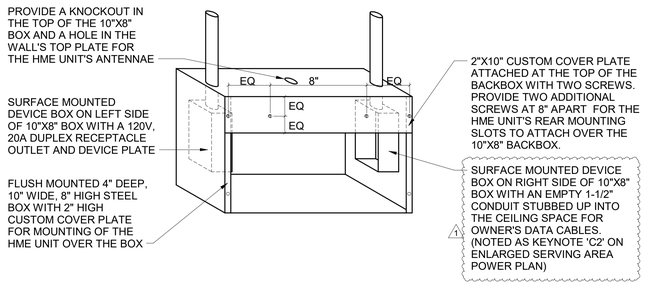
DATE	DESCRIPTION

CONSULTANT PROJECT #	1001-04591
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DATE	1/25/22
DRAWN BY	CJK

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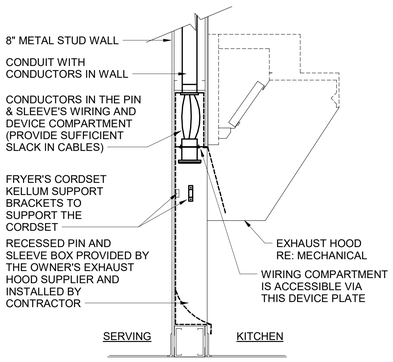
SHEET
CO2 MONITORING SYSTEM

SHEET NUMBER
GD1



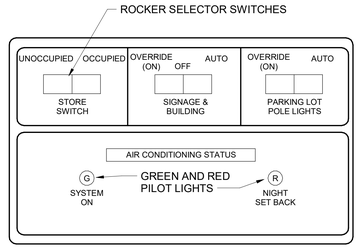
E3 HME UNIT POWER & DATA BOX DETAIL

NO SCALE



D4 PIN & SLEEVE BOX DETAIL

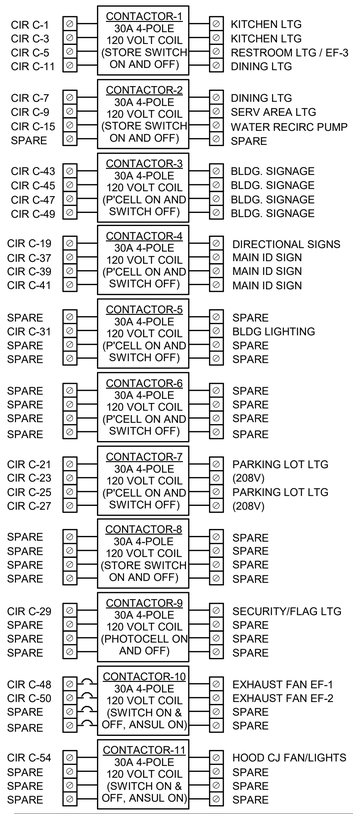
NO SCALE



NOTE:
THIS UNIT IS MOUNTED IN THE DOOR OF THE CFA-T500 CONTROL CABINET AND IS INCLUDED WITH THE GEAR ORDER FROM SUNCOAST ENVIRONMENTAL INC.

D3 OPEN-CLOSED CONTROL SWITCH

NO SCALE



NOTES:
1) VERIFY WITH SUNCOAST ENVIRONMENTAL CONTROLS' SHOP DRAWINGS.
2) ONLY THE 'HOT' CONDUCTOR OF EACH CIRCUIT SHALL BE RUN THRU THE CONTACTOR.
3) ANY TAPS OR WIRING CONNECTIONS OTHER THAN TO THE TERMINALS SHALL BE DONE IN A JUNCTION BOX OUTSIDE OF THIS CABINET.
4) VERIFY WITH THE LOCAL CODE IF CONTACTORS #10 AND #11 WILL BE ON OR OFF WHEN THE ANSUL SYSTEM IS INITIATED.
5) CIRCUITS C-49, C-25, AND C-27 WILL BE SPARES IF NOT NEEDED.

PER ASHRAE 90.1 2016

CONTRACTOR SHALL COORDINATE WITH SUNCOAST ON PROVIDING AN AUTOMATIC TIME SWITCH THAT COMPLIES WITH 90.1 SECTION 9.4

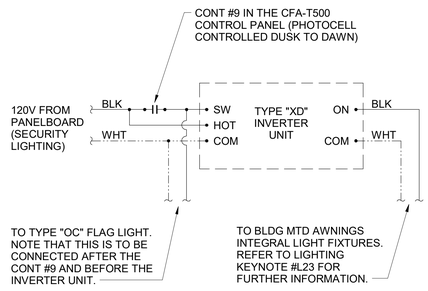
C2 CFA-T500 CONTROL PANEL DIAGRAM

NO SCALE

C1 ELECTRICAL LEGEND

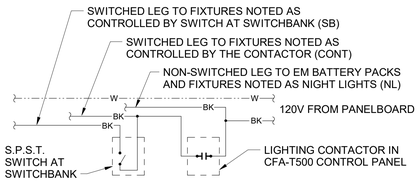
SYMBOL	DESCRIPTION	MTG HT AFF TO CL
	LIGHTING FIXTURES	
	SURFACE MOUNTED LIGHTING FIXTURE	
	RECESSED LED TROFFER LIGHTING FIXTURE	
	SURFACE MOUNTED LED LIGHTING FIXTURE	
	RECESSED LED LIGHTING FIXTURE	
	WALL MOUNTED LIGHTING FIXTURE, SEE LIGHTING FIXTURE SCHEDULE	AS NOTED
	WALL MOUNTED EXIT SIGN, SHADE INDICATES FACES, PROVIDE CHEVRON DIRECTIONALS WHEN NEEDED	6" FROM CEILING TO TOP
	CEILING MTD EXIT SIGN, SHADING INDICATES FACES. PROVIDE W/ CHEVRON DIRECTIONALS WHEN NEEDED	
	COMBO EXIT WITH TWO LAMPHEADS	
	WALL MTD EMERGENCY BATTERY PACK LIGHTING FIXTURE	AS NOTED
	CEILING MTD EMERGENCY BATTERY PACK LIGHTING FIXTURE	
	FLUORESCENT STRIP LIGHTING FIXTURE	
	WALLWASHER TYPE RECESSED DOWNLIGHT, AIM LIGHT TOWARD WALL	
	RECESSED LIGHTING FIXTURE W/ EMERGENCY BATTERY PACK	
	PENDANT LIGHTING FIXTURE	AS NOTED
	LIGHTING TRACK WITH TRACK HEADS	
	WIRING DEVICES	
	120 VOLT DUPLEX RECEPTACLE, 20 AMPS U.O.N.	14" UON
	120 VOLT DUPLEX AT SPECIAL MTD HEIGHT, 20 AMPS U.O.N.	44" UON
	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS U.O.N.	14" UON
	120 VOLT QUAD. AT SPECIAL MTD HEIGHT, 20 AMPS U.O.N.	44"
	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS U.O.N.	14" UON
	SINGLE SPECIAL PURPOSE RECEPT W/ VOLTS, AMPS, & PHASE AS NOTED, NEMA CONFIGURATION AS REQUIRED BY EQUIP.	14" UON
	RECEPTACLE MOUNTED ON DROP CORD, 120 VOLT, 20 AMP, UON, OUTLET BOX FLUSH WITH CEILING	
S	SINGLE POLE TOGGLE SWITCH	48"
S_2	DOUBLE POLE TOGGLE SWITCH	48"
S_3	THREE WAY TOGGLE SWITCH	48"
S_M	MANUAL MOTOR STARTER SWITCH (WP=NEMA 3R)	48"
S_P	SWITCH WITH PILOT LIGHT (ON WHEN SWITCH IS ON)	48"
S_K	KEY OPERATED SWITCH	48"
	NOTE: RECEPTACLES ON A DEDICATED CIRCUIT (THAT IS, NO OTHER LOAD CONNECTED TO THE BRANCH CIRCUIT) SHALL HAVE AMPACITY RATING NOT LESS THAN THE AMPERAGE OF THE CIRCUIT BREAKER SERVING THE DEVICE.	
	CONDUIT/RACEWAYS	
	CONDUIT CONCEALED ABOVE CEILNG OR IN WALL	
	CIRCUIT HOMERUN TO PANELBOARD W/ MIN 2#12, 1#12G, 3/4"C	
	CONDUIT TURNING UP	
	CONDUIT TURNING DOWN	
	CONDUIT CONCEALED IN OR BELOW SLAB (OR UNDERGROUND)	
	FLEXIBLE LIGHT FIXTURE WHIP; SIX FOOT MAXIMUM LENGTH	
MC	METAL CLAD CABLE ASSEMBLY - ONLY WHERE INDICATED ON DWGS OR SPECS	
	DISTRIBUTION EQUIPMENT	
	NON-FUSIBLE SAFETY SWITCH, SIZE AND TYPE AS NOTED ON PLANS (AMP/POLES/ENCLOSURE) OR ON SCHEDULE. NEMA 1 ENCLOSURE UNLESS NOTED WP FOR NEMA 3R ENCLOSURE.	6'-6" *
	FUSIBLE SAFETY SWITCH, SIZE & TYPE AS NOTED ON PLANS (AMP/POLES/FUSE AMPS/ENCLOSURE) OR ON SCHEDULE. NEMA 1 ENCLOSURE UNLESS NOTED WP FOR NEMA 3R.	6'-6" *
	FLUSH MOUNTED LIGHTING PANELBOARD	6'-6" *
	SURFACE MOUNTED LIGHTING PANELBOARD	6'-6" *
	* 6'-6" DISTANCE IS TO TOP-MOST DISCONNECTING DEVICE OR HIGHEST POSITION OF OPERATING HANDLE OF DISCONNECTING DEVICE	

SYMBOL	DESCRIPTION	MTG HT AFF TO CL
	MISCELLANEOUS SYMBOLS	
	GROUND	
M	MOTOR	
EF	EXHAUST FAN MOTOR	
J	JUNCTION BOX	
1	CONDUIT AND WIRE 'MARK' NUMBER, REFER TO CONDUCTORS AND CONDUIT SCHEDULE FOR SIZE	
101	KITCHEN EQUIPMENT 'MARK' NUMBER, REFER TO KITCHEN EQUIPMENT SCHEDULE FOR REQUIREMENTS	
1	NOTE NUMBER	
A	HOOD EXTINGUISHING ANSUL PULL STATION	
D	SMOKE DETECTORS REMOTE STATUS INDICATOR W/ 1/2"C STUB-UP	
	PUSHBUTTON	
B	BELL, TYPE AS NOTED ON PLANS	
PE	PHOTO-ELECTRIC CELL	
T	TRANSFORMER / DRIVER	
S	LOCKABLE SINGLE POLE SWITCH	
	ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR	
AFG	ABOVE FINISHED GRADE	
AHU	AIR HANDLING UNIT	
C	CONDUIT	
CL	CENTER-LINE	
CT	CONTACTOR	
EF	EXHAUST FAN	
FLA	FULL LOAD AMPS	
GF/GFI	GROUND FAULT CIRCUIT INTERRUPTER	
GND/GRD	GROUND	
HT	HEIGHT	
IG	ISOLATED GRD, PROVIDE ORANGE DEVICE WHEN ADJACENT TO WIRING DEVICE	
MOCP	MAXIMUM OVER-CURRENT PROTECTION	
MUA	MAKE UP AIR UNIT	
NEC	LOCALLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70)	
NL	NIGHT LIGHT (ON 24 HOURS)	
OC	ON CENTER	
POS	POINT OF SALE EQUIPMENT	
RTU	ROOF TOP UNIT	
TB	TERMINAL BLOCK	
TL	TWIST-LOCK TYPE DEVICE	
TR	TAMPER-RESISTANT	
UON	UNLESS OTHERWISE NOTED	
WP	WEATHERPROOF (NEMA 3R)	
	TELEPHONE	
	TELEPHONE OUTLET	18" UON
	TELEPHONE OUTLET AT SPECIAL MOUNTING HEIGHT	60" UON
	NOTE: EACH TELEPHONE OUTLET (FLOOR OR WALL MOUNTED SHALL BE PROVIDED WITH A 3/4" EMPTY CONDUIT, WITH PULL WIRE, TO ACCESSIBLE CEILING SPACE.	
	CCTV / SECURITY SYSTEM	
K	SECURITY ALARM KEYPAD	
S1	SECURITY SYSTEM KEY NOTE	



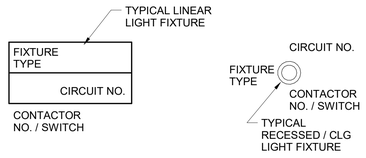
C4 INVERTER XD WIRING DIAGRAM

NO SCALE



B4 LIGHTING CONTROL DIAGRAM

NO SCALE

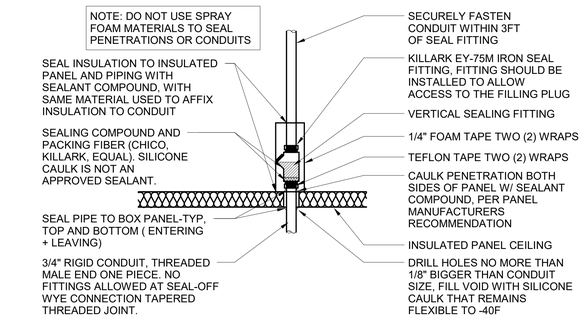


A4 LIGHT FIXTURE NOMECLATURE

NO SCALE

SIGNAGE NOTE

THE ELECTRICAL SUBCONTRACTOR SHALL INCLUDE THE ELECTRICAL ROUGH-IN AND FINAL CONNECTIONS OF ALL SIGNAGE (BUILDING MOUNTED AND GROUND MOUNTED ON THE SITE) IN HIS SCOPE OF WORK AND UNDER HIS LOCAL CODE PERMITTING PROCESS. PROVIDE A COPY OF THE PERMIT (WHICH SPECIFICALLY INCLUDES THE SIGNAGE) TO THE SIGN VENDOR IN ORDER TO EXPEDITE THE SIGN VENDOR'S PERMIT PROCESS.



A2 WIC/WIF SEAL-OFF DETAIL

NO SCALE

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MARK T. KURZYNSKE
NEW JERSEY LICENSE # GE44646
STATE OF NEW JERSEY MARK T. KURZYNSKE NO. GE44646 LICENSED PROFESSIONAL ENGINEER
04/06/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	03/29/2022	DESIGN NOTES

- For Construction -

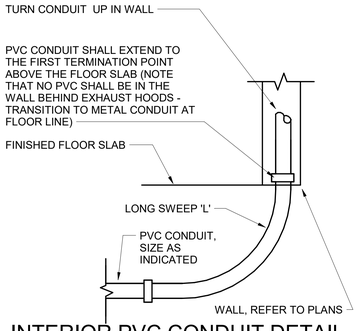
CONSULTANT PROJECT # 22008.EH.S
DATE 01/24/2022
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SHEET
ELECTRICAL SCHEDULES AND DETAILS

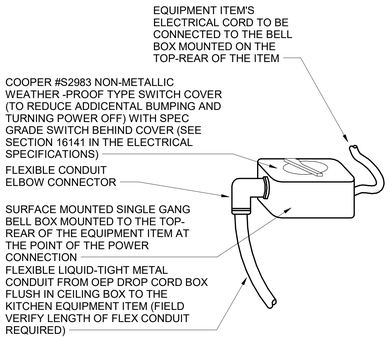
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E-001

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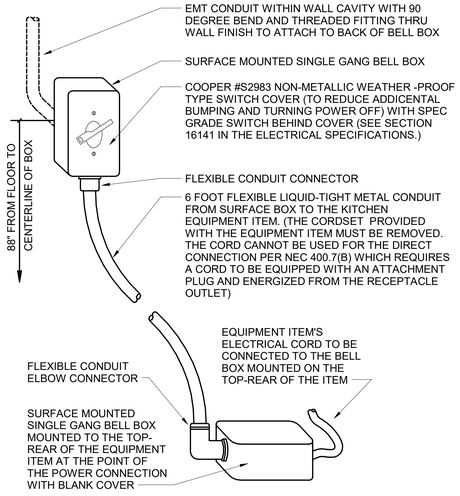
D4 INTERIOR PVC CONDUIT DETAIL

NO SCALE



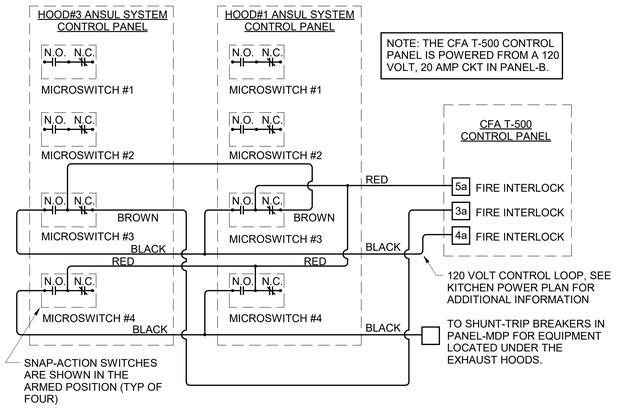
C4 DIRECT CONNECTION - ISLAND LOCATION

NO SCALE



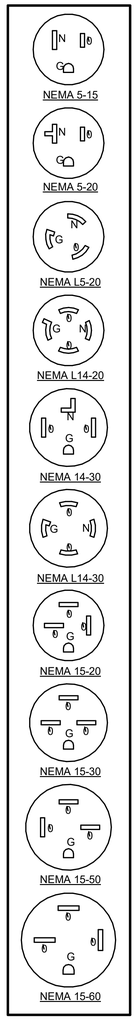
B4 DIRECT CONNECTION -WALL LOCATION

NO SCALE



A3 ANSUL SYSTEM PANEL WIRING DIAGRAM

NO SCALE



KITCHEN EQUIPMENT SCHEDULE NOTES

1. ALL SO CORD LENGTHS SHALL BE MEASURED FROM THE REAR OF THE EQUIPMENT TO THE END OF THE CORD.
2. CONTRACTOR SHALL PROVIDE GROUND-FAULT PROTECTION FOR ALL 120 VOLT 15 AMP AND 20 AMP RECEPTACLES IN THE KITCHEN / FOOD PREPARATION AREAS. GROUND-FAULT PROTECTION SHALL BE PROVIDED AT THE RECEPTACLE AS A GFCI TYPE RECEPTACLE UNLESS NOTED OTHERWISE ON THE PLANS WHERE A GFCI TYPE BREAKER IS INDICATED.
3. PROVIDE GFCI TYPE BRANCH BREAKER FOR KITCHEN / FOOD PREPARATION AREA RECEPTACLES THAT ARE TWIST-LOCK, CLOCK STYLE, OR IG (ISOLATED GROUND) TYPE.

KITCHEN EQUIPMENT SCHEDULE - CHICK-FIL-A P13 EDITION

ITEM NO.	DESCRIPTION OF EQUIPMENT	VOLTS	PH	KW	AMPS	NEMA-RATING	COMMENTS AND REMARKS
120	HOT HOLDING CENTERLINE TABLE	120/208	3	3.20	16.00	DIRECT CONNECTION	60 AMP SERVICE REQUIRED TO POWER TABLE AND ADDITIONAL EQUIPMENT EXCEPT POS - ORDER WITH ITEM #27807900
120a	COLD CENTERLINE TABLE	120/208	3	0.78	6.5	DIRECT CONNECTION	60 AMP SERVICE REQUIRED TO POWER TABLE & ADDITIONAL EQUIPMENT EXCEPT POS - ORDER W/ ITEM #27808160
120c	TOASTER CENTERLINE TABLE	120/208	3			DIRECT CONNECTION	60 AMP SERVICE REQUIRED TO POWER TABLE & ADDITIONAL EQUIPMENT EXCEPT POS - ORDER W/ITEM #27802293
120d	CENTERLINE UNDERCOUNTER REFRIGERATOR	115	1	0.60	5.00	5-15P	LOCATED UNDER ITEM #120a - FRANKE COLD TABLE CIRCUIT #1
180	ORDER REGISTER	120	1		0.70	5-20P	
182	RECEIPT PRINTER	other	1		1.80	5-20P	
182L	LABEL PRINTER	other	1		1.70	5-20P	PROVIDED WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
183	ORDER MONITOR	120	1		0.125	5-20P	
184	IPAD	120	1	0.120	1.00	5-20P	PROVIDED BY CONNECTION
184T	ITIMER	120	1	0.120	1.00	5-20P	PROVIDED BY CLARK
190	DRIVE-THRU VIDEO MONITOR	120	1		0.8	5-20P	
211B	FLY SYSTEM	120	1	0.10	0.60	5-15P	CLOCK STYLE RECEPTACLE REQUIRED
211C	FLY SYSTEM	120	1	.03	.25	5-15P	RE: ARCHITECTURAL SHEETS FOR MOUNTING DETAILS
269	ANSUL FIRE SUPPRESSION SYSTEM	120	1		VERIFY	DIRECT CONNECTION	REMOTE CABINET - REFER TO SHOP DRAWINGS - FED FROM CFA-T500 PANEL
270	ANSUL FIRE SUPPRESSION SYSTEM	120	1		VERIFY	DIRECT CONNECTION	LOCATED ABOVE HOOD - BEHIND CLOSURE PANEL - REFER TO SHOP DRAWINGS - FED FROM CFA-T500 PANEL
300a	MILKSHAKE BASE DISPENSER	120	1		4.00	5-20P	MOUNTED ON ITEM #300b
300X	DOUBLE BARREL ICE CREAM MACHINE	208	3		19.00/15.00	15-30P/15-20P	PROVIDED WITH HUBBELL HBL8432C & HBL8421C ANGLE PLUGS
305	TEA BREWER	120	1	1.65	13.8	5-15P	PROVIDE QUICK DISCONNECT HOSES
308	SINGLE COFFEE MAKER	208	1	4.0	19.2	L14-30P	PROVIDE QUICK DISCONNECT HOSES
310	DOUBLE LEMONADE BUBBLER	120	1		8.50	5-15P	ORDER (1) #3CRA016 BOWL KIT AND (1) #3CRA018 BASE PER BUBBLER AND ORDER TOTAL OF (1) #3CRA021 SET OF (2) 2.4 GAL BOWLS
315W	10-HEAD BEVERAGE DISPENSER WITH ICE BIN	115	1		10.00	5-15P/5-15P	PROVIDED WITH (2) CORDS AND PLUGS PER TOWER
320	TURBO CARBONATOR	115	1		6.2	5-20P	ORDER (8) #44231, (3) #44233, (8) DR. PEPPER PUMPS, & (3) #T5274SN-01
363	HIGH-TEMP UPRIGHT DISHWASHER	208	3		46.00	DIRECT CONNECTION	PROVIDED WITH DRAIN WATER TEMPERING KIT
380	ICE MACHINE	115	1	0.600	5.00	5-15P	INSTALLED ON TOP OF ICE BIN - PROVIDED WITH 6 FT CORD AND 35 FT LINE SETS
380a	ICE BIN SANITATION SYSTEM	120	1	0.0096		5-15P	INSTALLED ON WALL ABOVE ICE BIN - SHARES DUPLEX WITH (1) ICE MACHINE
380C	ICE MACHINE REMOTE CONDENSING UNIT	208	3	3.100	14.20	DIRECT CONNECTION	AIR COOLED UNIT - GC SHALL PLACE AND INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWINGS
380CD	ICE MACHINE REMOTE CONDENSING UNIT	208	3	3.600	15.70	DIRECT CONNECTION	AIR COOLED UNIT - GC SHALL PLACE AND INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWINGS
380D	ICE MACHINE	115	1	0.368	5.00	5-15P	INSTALLED ON TOP OF ICE BIN - PROVIDED WITH 6 FT CORD AND 35 FT LINE SETS
400L	SINGLE UPRIGHT FREEZER (30" WIDE)	115	1	1.100	9.40	5-15P	HINGE LEFT - PROVIDE FINISHED BACK - ORDER ON 4 5/8 IN CASTERS
3 404	UNDERCOUNTER FREEZER (27")	115	1		8.00	5-15P	HINGE RIGHT - ORDER ON 4 IN CASTERS
410	WALK-IN FREEZER	120	1		3.3	DIRECT CONNECTION	ORDER WITHOUT FLOOR - REFER TO LIGHTING PLAN
410a	WALK-IN FREEZER CONDENSER	208	3		16.30	DIRECT CONNECTION	GC SHALL INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWINGS
410b	WALK-IN FREEZER EVAPORATOR	208	1		1.50	DIRECT CONNECTION	POWER FED FROM CONDENSER
419L	SINGLE REFRIGERATED WORK TABLE	115	1	0.564	4.70	5-20P	HINGE LEFT - ORDER ON 6" CASTERS WITH BACKSPLASH TOP
420	SINGLE UNDERCOUNTER REFRIGERATOR	115	1	0.564	4.70	5-20P	HINGE RIGHT - ORDER ON 4" CASTERS
420A	SINGLE UNDERCOUNTER REFRIGERATOR	115	1	0.564	4.70	5-20P	HINGE RIGHT - ORDER ON 2 IN CASTERS
420L	SINGLE UNDERCOUNTER REFRIGERATOR	115	1	0.564	4.70	5-20P	HINGE LEFT - ORDER ON 4" CASTERS
421	DOUBLE UNDERCOUNTER REFRIGERATOR	115	1	0.756	6.30	5-15P	ORDER ON 4 IN CASTERS
422T	REFRIGERATED EQUIPMENT STAND (48")	115	1	0.80	6.70	L5-15P	EC TO CHANGE PLUG TO TWIST LOCK - PROVIDED W/9' CORD - ORDER ON 4" CASTERS
431	DOUBLE REFRIGERATED WORK TABLE	115	1	0.756	6.30	5-15P	ORDER ON 6 IN CASTERS WITH BACKSPLASH TOP
440C	ICE BATH BREADING TABLE	120	1		1.00	5-15P	10 FT CORD AND PLUG - LEAF INCLUDED WITH TABLE - INSTALL IF SHOWN ON PLANS
441	SALAD PREP TABLE	115	1		9.0	L5-15P	PROVIDE WITH TWIST LOCK PLUG; ORDER ON 4" CASTERS WITH PAN PKG.; SESC TO PROVIDE PAN PKG.
442WC	SINGLE UPRIGHT REFRIGERATOR (30" WIDE)	115	1		7	5-15P	HINGE RIGHT - PROVIDE FINISHED BACK - ORDER ON 6 IN CASTERS
444D	DOUBLE THAWING CABINET (52" WIDE)	115	1		16.00	DIRECT CONNECTION	HINGE STANDARD - GC TO INSTALL LIQUID TIGHT FLEX CONDUIT - ORDER ON 6 IN CASTERS
449	WALK-IN COOLER	120	1		2.4	DIRECT CONNECTION	ORDER WITHOUT FLOOR - REFER TO LIGHTING PLAN
449a	WALK-IN COOLER CONDENSER	208	3		9.50	DIRECT CONNECTION	GC SHALL INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWINGS
449b	WALK-IN COOLER EVAPORATOR	208	1	0.110	1.00	DIRECT CONNECTION	POWER FED FROM CONDENSER
500A	VERTICAL CONTACT TOASTER	120	1	1.8	15.0	5-15P	LOCATED ON ITEM #120c - FRANKE TOASTER TABLE CIRCUITS #1 & #2
500B	RADIANT TOASTER	208	1	5.5	24.0	L6-30P	LOCATED ON ITEM #120c - FRANKE TOASTER TABLE CIRCUITS #3 & #4 - PROVIDED W/ TWIST LOCK PLUG
503	EGG STATION	208	1	2.5	12.5	6-20P	
503T	EGG STATION	208	1	2.50	12.50	L6-20P	PROVIDED W/6' CORD & TWIST LOCK PLUG
505VLT	VECTOR OVEN	208	3	7.90	22.00	L15-30P (BY EC)	HINGE LEFT - EC TO CHANGE PLUG TO TWIST LOCK
522	SINGLE OPEN FRYER	208	3	22.000	62.00	PIN & SLEEVE	PIN & SLEEVE PROVIDED WITH EQUIPMENT AND RECEPTACLE BOX PROVIDED WITH HALTON ITEMS - (1) POWER CONNECTION PER WELL
522A	DOUBLE OPEN FRYER	208	3	44.000	124.00	PIN & SLEEVE	PIN & SLEEVE PROVIDED WITH EQUIPMENT AND RECEPTACLE BOX PROVIDED WITH HALTON ITEMS - (1) POWER CONNECTION PER WELL
523	PRESSURE FRYER	208	3	13.500	38.00	15-50P	PROVIDED WITH 6 FT CORD AND PLUG
524	DUAL SIDE CLAMSHELL GRILL	208	3	9	24.1/28.2/23.1	15-50P	PROVIDED WITH 5' CORD & PLUG
550	DOUBLE WARMING DRAWER	120	1	0.900	7.83	5-15P	ON CASTERS - LOCATED UNDER ITEM #120 - FRANKE HOT HOLDING TABLE CIRCUITS #2 AND #3
560	FRY HOLDING STATION	120	1	1.90	15.4	5-20P	
563D	DOUBLE TIER SANDWICH SLIDE	120	1	1.09	9.13	5-15P	CORD EXITS RIGHT - 6' CORD AND PLUG
563SL	SINGLE TIER SANDWICH SLIDE	120	1	0.548	4.56	5-15P	CORD EXITS LEFT - 6' CORD AND PLUG
564	VISUAL HOT HOLDING CABINET (2x4)	120	1	1.32	11	5-15P	LOCATED ON ITEM #120a - FRANKE COLD TABLE CIRCUIT #2 - ORDER WITH LIDS/TRAY SEALS, AMBER PANS, & FALSE BOTTOMS
565C	FOOD COOKER/WARMER	120	1	1.500	12.50	5-15P	ORDER WITH (1) 3VOL042, (2) 3VOL043, (8) 3VOL051, AND (8) 3VOL061
580	VISUAL HOT HOLDING CABINET (5x4)	120	1	2.88	24	L5-30P	PROVIDED W/TWIST LOCK PLUG - ORDER WITH LIDS/TRAY SEALS
592	RETHERMALIZER	208	3	8.000	22.00	15-30P	PROVIDED WITH 6' CORD AND ANGLE PLUG - WATER SUPPLY TO BE S/S BRAIDED HOSE WITH MALE QUICK CONNECT ADAPTER
600	MIXER	120	1		8.0	L5-20P	E.C. TO CHANGE PLUG TO TWIST LOCK - ORDER WITH 3HOB405, 3HOB061, 3HOB318, 3HOB319, & 3HOB058
607	COUNTER TOP LEMON JUICER	115	1			5-15P	LOCATED ON ITEM #606
669	OFFICE SAFE	120	1			5-20P	INSTALL SAFE PER MANUFACTURER'S WRITTEN INSTRUCTIONS
672	DIGITAL MENU BOARD	120	1			5-15P	PROVIDED BY COATES

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09/30/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	07/29/2022	DESIGN NOTES

- For Construction -

CONSULTANT PROJECT # 22008.EH.S
DATE 01/24/2022
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SHEET
ELECTRICAL SCHEDULES AND DETAILS

SHEET NUMBER
E-002

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ELECTRICAL SITE PLAN KEYNOTES

1. PROPOSED LOCATION OF PRIMARY UNDERGROUND ELECTRICAL UTILITY LINES: PROVIDE THREE 4", SCH. 40 PVC CONDUIT TO UTILITY SOURCE, AT MINIMUM 30" BELOW FINISHED GRADE AND IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. COORDINATE ALL REQUIREMENTS WITH THE UTILITY COMPANY PRIOR TO BID.
2. PROPOSED LOCATION OF PAD MOUNTED TRANSFORMER FURNISHED BY THE ELECTRICAL UTILITY COMPANY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONCRETE PAD FOR IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.
3. PROPOSED LOCATION OF SECONDARY UNDERGROUND ELECTRICAL UTILITY LINES: PROVIDE SECONDARY SERVICE LATERAL FROM UTILITY TRANSFORMER TO PANEL 'MDP' VIA THE CURRENT TRANSFORMER CABINET. SEE SHEET E-502, "SINGLE-LINE DIAGRAM". REFER TO "ELECTRICAL SERVICE LATERAL CONDUIT DETAIL", SHEET E-101, FOR ADDITIONAL INFORMATION.
4. LOCATION OF TERMINATION OF SECONDARY SERVICE LATERAL AT PANEL 'MDP'. REFER TO "SINGLE-LINE DIAGRAM" ON SHEET E-502 FOR ADDITIONAL INFORMATION.
5. A. PROVIDE TWO 2" SCH. 40 PVC CONDUIT (ONE IS A SPARE), MINIMUM 24" BELOW FINISHED GRADE, FOR TELEPHONE SERVICE FROM TELEPHONE UTILITY SOURCE TO JUNCTION BOX INSIDE THE BUILDING. REFER TO SHEET E-302 FOR LOCATION OF JUNCTION BOX IN SERVICE AREA. REFER TO "TELEPHONE SERVICE CONDUIT DETAIL", SHEET E-101, FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION OF UTILITY SOURCE WITH TELEPHONE UTILITY. TERMINATE CONDUITS AT UTILITY SOURCE AS REQUIRED BY THE UTILITY COMPANY.

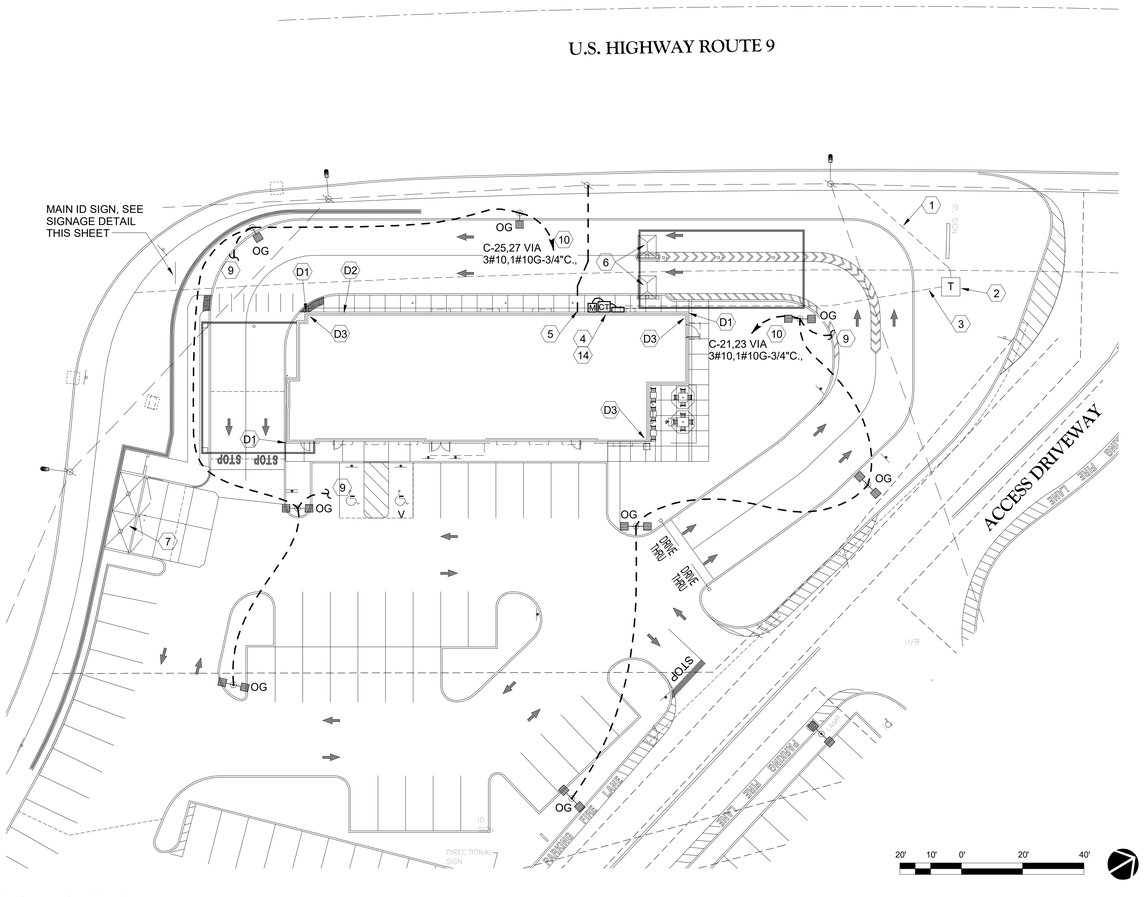
   B. PROVIDE ONE 3" SCH. 40 PVC CONDUIT, MINIMUM 24" BELOW FINISHED GRADE, FOR ISP SERVICE FROM UTILITY SOURCE TO JUNCTION BOX INSIDE THE BUILDING. REFER TO SHEET E-302 FOR LOCATION OF JUNCTION BOX IN BUILDING. REFER TO "TELEPHONE SERVICE CONDUIT DETAIL", SHEET E-101, FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION OF UTILITY SOURCE WITH SERVICE SUPPLY COMPANY. TERMINATE CONDUITS AT AS REQUIRED BY THE UTILITY COMPANY.
6. REFER TO SHEET E-303 AND E-304 FOR ELECTRICAL REQUIREMENTS AT MENU BOARD AND DRIVE-THRU CANOPY.
7. LOCATION OF DUMPSTER. REFER TO "REFUSE ENCLOSURE PLAN - ELECTRICAL", SHEET E-303 FOR ELECTRICAL REQUIREMENTS IN THIS AREA.
8. PROVIDE A 12' POLE FOR MOUNTING OF SECURITY CAMERA. POLE TO MATCH SITE LIGHTING POLES IN STYLE AND COLOR.
9. PROVIDE UNDERGROUND CONDUIT TO LOCATION WITHN THE BUILDING FOR POLE MOUNTED SECURITY CAMERA. REFER TO SHEET E-302 FOR LOCATION OF CONDUIT STUB-UP AND REQUIRED SIZE OF CONDUIT. COORDINATE EXACT CAMERA LOCATION WITH CHICK-FIL-A SECURITY SYSTEM REPRESENTATIVE PRIOR TO ROUGH-IN.
10. CONNECT AREA LIGHTING CIRCUITS TO TERMINAL BLOCKS LOCATED IN THE "CFA-T500" CONTROL PANEL (TYPICAL). SEE PANEL SCHEDULES ON SHEET E-501.
11. CONNECT SITE SIGNAGE CIRCUITS TO TERMINAL BLOCKS LOCATED IN THE "CFA-T500" CONTROL PANEL (TYPICAL). SEE PANEL SCHEDULES ON SHEET E-501. COORDINATE LOCATIONS OF ALL SIGNS WITH CHICK-FIL-A SIGNAGE PLANS PRIOR TO BID AND PRIOR TO CONDUIT INSTALLATION.
12. PROVIDE GFCI TYPE WEATHERPROOF RECEPTACLE MOUNTED ON MAIN SIGN SUPPORT +14" AFG. THIS RECEPTACLE SHALL NOT BE SWITCHED. (BYPASS THE CONTACTOR AND SIGN'S DISCONNECT SWITCH.)
13. PROVIDE WEATHERPROOF 20A SPST TOGGLE SWITCH 18" AFG AND CONNECTION TO MAINTENANCE DISCONNECT SWITCH FOR MAIN I.D. SIGN.
14. PROPOSED LOCATION OF BUILDING MOUNTED ELECTRICAL UTILITY METER. METER BASE WILL BE FURNISHED BY THE UTILITY COMPANY AND INSTALLED BY THE CONTRACTOR. THE CURRENT TRANSFORMER CABINET SHALL BE FURNISHED AND INSTALLED ON THE BUILDING BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL A 1-1/4" RIGID GALVANIZED CONDUIT BETWEEN METER BASE AND CURRENT TRANSFORMER CABINET. COORDINATE LOCATIONS AND REQUIREMENTS WITH ELECTRIC UTILITY COMPANY PRIOR TO BID.

GENERAL ELECTRICAL SITE PLAN NOTES

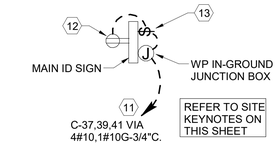
1. VERIFY WITH LOCAL AUTHORITIES AND UTILITIES THAT OWNER'S SIGNS, POLES, AND THEIR APPURTENANCES ARE NOT LOCATED ON OR OVER ANY EASEMENT OR MUNICIPAL RIGHT OF WAY.
2. SITE WORK, UTILITY, AND ROADWAY INFORMATION ARE TAKEN FROM BOUNDARY AND TOPO SURVEY SITE PLANS. REFER TO C-DRAWINGS.
3. MINIMUM CONDUIT SIZE SHALL BE 3/4"C. MINIMUM CONDUCTOR SIZE SHALL BE #10AWG COPPER UNLESS OTHERWISE NOTED.
4. REFER TO BUILDING ELECTRICAL DRAWINGS FOR EXTERIOR LIGHTING CONTROL.
5. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ONLY NEW AND U.L. LABELED ELECTRICAL EQUIPMENT, UNLESS INDICATED OTHERWISE BY THE CONTRACT DOCUMENTS.
6. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL CONTACT ALL UTILITIES FOR VERIFICATION AND IDENTIFICATION OF ALL UNDERGROUND RUNS, PRIOR TO SITE TRENCHING ("CALL BEFORE YOU DIG").
7. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (NFPA 70), AND THE LIFE SAFETY CODE (NFPA 101), AS ADOPTED AND/ OR AMENDED BY STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
8. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL COORDINATE AND FIELD VERIFY LOCATIONS OF ALL UTILITY SERVICE RUNS, ORIGINATIONS, TERMINATIONS AND ANY INSTALLATION REQUIREMENTS (i.e. ELECTRICAL, TELEPHONE, WATER, GAS, SEWAGE, ETC.), AS RELATED TO THIS JOB, OR THEREBY EFFECTED.
9. REFER TO SHEETS E-901, & E-902 FOR ELECTRICAL SPECIFICATIONS PERTAINING TO ELECTRICAL WORK DESCRIBED ON THIS SHEET.
10. REFER TO SHEET E-102 FOR AREA LIGHTING FIXTURE SCHEDULE AND SHEET E-211 FOR BUILDING LIGHTING FIXTURE SCHEDULE.

ELECTRICAL SITE PLAN SYMBOLS

SYMBOL	DESCRIPTION (UNLESS OTHERWISE NOTED ON PLANS)
T	UTILITY COMPANY TRANSFORMER, (208 VOLT, 3 PHASE, 4 WIRE SECONDARY)
$	S.P.S.T. LIGHT SWITCH (600V AC QUIET TYPE)
GF	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE
	CONDUIT HOMERUN TO PANEL
J	JUNCTION BOX (SINGLE GANG STEEL WHERE WALL MOUNTED, 4" SQ. STEEL WHERE CEILING MOUNTED, UNLESS NOTED OTHERWISE)
	CONDUIT BURIED BELOW GRADE
	POLE MOUNTED SITE LIGHTING FIXTURE. CHEVRON INDICATES DIRECTION OF PRIMARY LIGHT DISTRIBUTION.



B1 ELECTRICAL SITE PLAN
1" = 20'-0"



A1 MAIN ID SIGN DETAIL
N.T.S.

DT CASH STATION - KEYNOTES

D1. LOCATION OF A 360 DEGREE BUILDING MOUNTED EXTERIOR CAMERA (BY OTHERS). PROVIDE A 3/4" CONDUIT AT 9'-4" AFF TO AN EXTERIOR WALL MOUNTED WP JUNCTION BOX WITH THE CONDUIT ABOVE THE INTERIOR CEILING AND EXTENDED TO AN ACCESSIBLE CEILING AREA FOR CAMERA CABLES BY OTHERS.

D2. PROVIDE AN EXTERIOR DUPLEX 120V, 20A RECEPTACLE AT 18"AFF WITH 'IN-USE' STYLE LOCKABLE WP COVER AND CONNECT TO A GENERAL PURPOSE 120V RECEPTACLE CIRCUIT.

D3. PROVIDE A JUNCTION BOX ON THE INSIDE PARAPET WALL ABOVE THE ROOF WITH A 3/4" CONDUIT STUBBED DOWN INTO AN ACCESSIBLE CEILING SPACE AREA BELOW FOR THE OWNER PROVIDED WI-FI EXTERIOR ANTENNAE.

POWER/TELEPHONE UTILITIES:

COORDINATE AND COMPLY WITH ALL TELEPHONE AND ELECTRICAL UTILITY REQUIREMENTS. THE FOLLOWING PERSONS SHALL BE CONTACTED FOR SPECIFIC UTILITY COMPANY REQUIREMENTS:

ELECTRICAL UTILITY: PSEG
MICHAEL SPITZMILLER
732-764-3081
MICHAEL.SPITZMILLER@PSEG.COM

TELEPHONE UTILITY : VERIZON
MICHAEL WREN
732-751-8742
MICHAEL.S.WREN@VERIZON.COM

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

Kurzynske & Associates
2705 Lebanon Pike - Suite One
Nashville, Tennessee 37214
Telephone: (615) 255-5203

MARK T. KURZYNSKE
NEW JERSEY LICENSE # GE44646
STATE OF NEW JERSEY MARK T. KURZYNSKE NO. GE44646 LICENSED PROFESSIONAL ENGINEER
01/24/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE
RELEASE: 21.11
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

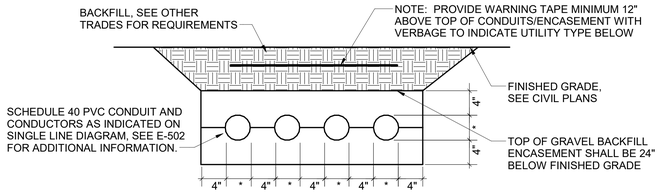
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SHEET
ELECTRICAL SITE PLAN

SHEET NUMBER
E-100

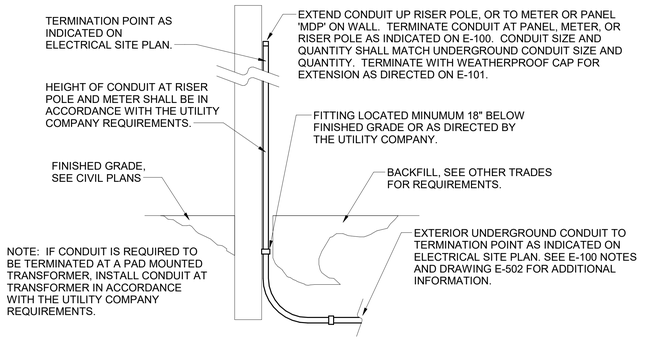
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LE-04591-E-100-ELECTRICAL SITE PLAN



NOTE:
WHERE THE SECONDARY CONDUITS FROM THE UTILTY TRANSFORMER TO THE CURRENT TRANSFORMER CABINET (OR MAIN PANELBOARD) ARE FURNISHED BY THE UTILITY COMPANY (FOR INSTALLATION BY THE CONTRACTOR) OR ARE FURNISHED AND INSTALLED BY THE UTILITY COMPANY, THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH THE UTILITY COMPANY PRIOR TO BID. REFER TO THE ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.

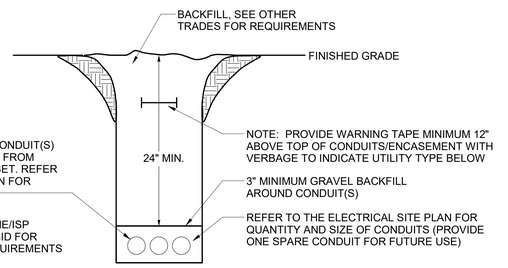
E1 ELECTRICAL SERVICE LATERAL CONDUIT DETAIL

N.T.S.



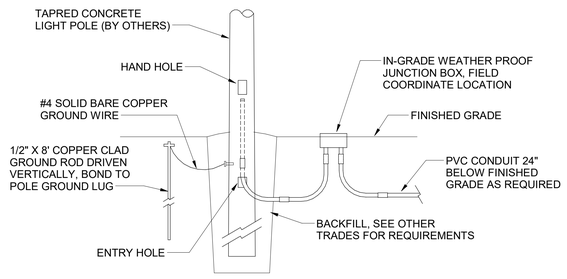
C1 EXTERIOR CONDUIT TURN UP DETAIL

N.T.S.



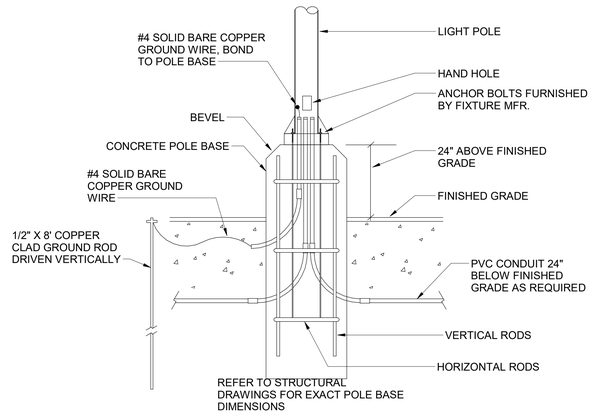
B1 TELEPHONE/ISP SERVICE CONDUIT DETAIL

N.T.S.



A2 TYPICAL DIRECT BURIED POLE DETAIL

N.T.S.



A1 TYPICAL CONCRETE BASE POLE DETAIL

N.T.S.

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MARK T. KURZYNSKE
NEW JERSEY LICENSE # GE44646
STATE OF NEW JERSEY MARK T. KURZYNSKE NO. GE44646 LICENSED PROFESSIONAL ENGINEER
01/24/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE
RELEASE: 21.11
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

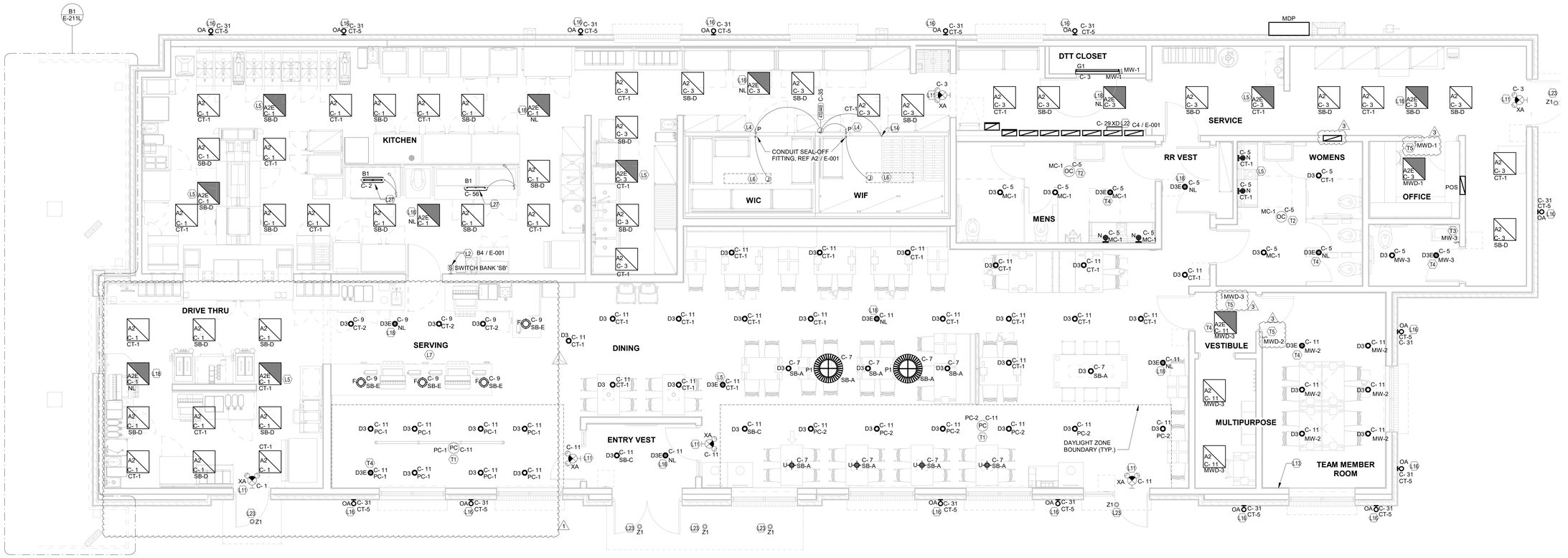
CONSULTANT PROJECT #	22008.EH.S
DATE	01/24/2022
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SHEET
ELECTRICAL SITE PLAN DETAILS

SHEET NUMBER
E-101

1/24/2022 6:24:34 PM BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_SIT_ELE.rvt
LE-04591-E-101-ELECTRICAL SITE PLAN DETAILS



C1 LIGHTING PLAN - LRG

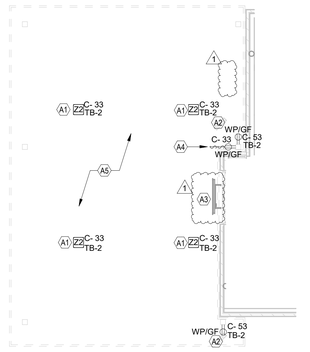
1/4" = 1'-0"

LIGHTING PLAN KEYNOTES

- L2 APPROXIMATE LOCATION OF SWITCH BANK 'SB'. SEE DETAIL ON THE LIGHTING PLAN FOR MORE INFORMATION.
- L4 FOR CONTROL OF LIGHTING FIXTURE IN WALK-IN COOLER AND FREEZER. SWITCH FURNISHED WITH EQUIPMENT, INSTALLED BY ELECTRICAL CONTRACTOR.
- L5 CONNECT FIXTURE SO THAT BATTERY PACK IS NOT SWITCHED WITH LIGHTS, BUT ALL LAMPS ARE SWITCHED.
- L6 FOR CONNECTION TO LIGHTING FIXTURE IN THE WALK-IN COOLER AND FREEZER WHICH IS FURNISHED WITH EQUIPMENT. CONTRACTOR SHALL ROUGH-IN AND CONNECT ALL FIXTURES AS REQUIRED BY THE EQUIPMENT MANUFACTURER.
- L7 THE LIGHT FIXTURES IN THE SERVING AREA ARE PROVIDED WITH LAMP SHIELDING VIA A LENS.
- L9 TO THE TOILET EXHAUST FAN ON ROOF. SEE SHEET E-250, ROOF ELECTRICAL PLAN.
- L11 THIS FIXTURE SHALL NOT BE SWITCHED. CONNECT TO CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS.
- L13 SEE THE ROOF ELECTRICAL PLAN FOR LOCATION OF TYPE 'OC' ROOF MOUNTED FLAG POLE LIGHT. FIXTURE TO BE CONNECTED TO CIRCUIT C-29 THRU THE CFA-T500 CONTROL PANEL CONTACTOR #9 (AHEAD OF THE INVERTER, NOT THRU THE INVERTER.)
- L14 TO WALK-IN FREEZER DOOR FRAME HEATER AND AIR RELIEF ASSEMBLY (PRESSURE REDUCTION VALVE - PRV), THRU SEAL-OFF FITTING. VERIFY ROUGH-IN AND FINAL CONNECTION WITH EQUIPMENT.
- L15 SEE THE SITE ELECTRICAL PLAN FOR LOCATION OF TYPE 'OC' GROUND MOUNTED FLAG POLE LIGHT. FIXTURE TO BE CONNECTED TO CIRCUIT C-29 THRU THE CFA-T500 CONTROL PANEL CONTACTOR # 9 (AHEAD OF THE INVERTER, NOT THRU THE INVERTER.)
- L16 ROUTE THROUGH CONTROL PANEL CFA-T500 AND CONTROLLED BY OCCUPIED SWITCH AND PHOTOCELL.
- L18 CONNECT LIGHTING FIXTURE SO THAT LAMP BALLAST OR DRIVER AND EMERGENCY BATTERY PACK ARE NOT SWITCHED. 'NL' ADJACENT TO FIXTURE INDICATES THAT FIXTURE SHALL BE ON 24 HOURS.
- L22 TYPE 'XD' INVERTER CABINET TO BE WALL MOUNTED AT THE CEILING AND CONNECTED TO CIRCUIT C-29 THRU THE CFA-T500'S CONTACTOR #9 (DUSK TO DAWN CONTROL). CONNECT WITH BOTH A CONTROLLED (VIA THE CONTACTOR FOR LIGHTS ON AT DUSK AND OFF AT DAWN) LEG AND AN UNSWITCHED LEG FOR THE BATTERY IN THE INVERTER. WHEN POWER IS DISRUPTED ON THE UNSWITCHED LEG, THEN THE INVERTER'S BATTERY WILL ENERGIZE THE LIGHTS CONNECTED TO THE INVERTER NO MATTER THE TIME OF DAY. PROVIDE CONNECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- L23 CANOPY LIGHTS PROVIDED BY THE CANOPY SUPPLIER INTEGRAL WITH THE CANOPY. ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN CONDUIT CHASE AT CL OF AWNING AND AT 10'-0" AFF (VERIFY) AND CONNECT THE 120V CIRCUIT TO THE 'XD' INVERTER UNIT. COORDINATE LOCATIONS OF LIGHTS AND ROUGH-IN REQUIREMENTS WITH THE CANOPY SUPPLIER. LIGHTS WILL COME ON AT DUSK, TURN OFF AT DAWN, AND BE ENERGIZED WHENEVER THERE IS A POWER OUTAGE.
- L24 REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATIONS OF PENDANTS, DOWNLIGHTS, ACCENTS LIGHTS, AND OTHER CEILING MOUNTED LIGHT FIXTURES.
- L27 PROVIDE A TYPE B1 SHELF MOUNTED TASK LIGHT FIXTURE. MOUNT LIGHT TO THE UNDERSIDE OF THE WIRE SHELVING. PROVIDE A CORD FROM THE FIXTURE(S) TO A SWITCH IN AN FS BOX MOUNTED TO THE SHELF. FROM FS BOX PROVIDE AN SO CORD WITH PLUG AND CONNECT TO THE GEN RECEPTACLE (WALL OR DROP CORD). SEE ENLARGED POWER PLAN FOR FURTHER INFORMATION.

OMD CANOPY KEYNOTES:

- A1 CEILING LIGHT FIXTURE PROVIDED BY THE CANOPY SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR.
- A2 AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE A DUPLEX RECEPTACLE OUTLET (WITH IN-USE WP COVER PLATE) AT THE TOP OF THE COLUMN FLUSH MOUNTED IN THE CUT-OUT FOR THE FAN'S PLUG AND CORD CONNECTION.
- A3 ELECTRIC HEATER PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.
- A4 PROVIDE ONE DUPLEX GFCI (WITH IN-USE WP COVER PLATE) AND TWO 120V SINGLE-POLE SWITCHES (EACH WITH HUBBELL #RW51550 WP COVER PLATE) MOUNTED IN THE COLUMN IN FLUSH MOUNTED METAL SINGLE-GANG BOXES FOR LOCAL ON-OFF CONTROL OF THE FANS AND CANOPY LIGHTS. SEE WIRING SCHEMATIC FOR FURTHER INFORMATION. ALL SURFACE (OR VISIBLE) ITEMS AND COVERPLATES TO BE FIELD PAINTED MATTE BLACK.
- A5 ALL CONDUIT AND BOXES SHALL BE CONCEALED FROM NORMAL VIEW; IN WALLS OR ABOVE THE CANOPY (ON THE ROOF). MC CABLE (GALVANIZED STEEL WITH PVC JACKET) MAY BE USED INSIDE THE WALL FOR THE DEVICES, BUT MUST CONVERT TO IMC ABOVE THE CANOPY ROOF. (PROVIDE A NEMA 3R JUNCTION BOX ON THE ROOF SIDE OF THE CANOPY TO TRANSITION FROM MC CABLES IN WALL TO IMC CONDUIT ON THE ROOF.) ALL EXPOSED BOXES AND FITTINGS TO BE CAST-METAL NEMA 3R. REFER TO THE MECHANICAL SHEETS FOR CONDUIT MOUNTING DETAILS ON THE ROOF.

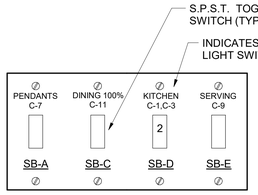


B1 LIGHTING PLAN - CANOPY PLAN

1/8" = 1'-0"

ENERGY CONTROLS KEYNOTES

- T1 CEILING MOUNTED RECESSED AUTOMATIC PHOTOCELL FOR DAYLIGHT CONTROLS. LIGHTS IN DAYLIGHT ZONES SHALL DIM BASED ON THE AMOUNT OF DAYLIGHT DETECTED AT THE PHOTOCELL. FIELD CALIBRATE PHOTOCELL. ROUTE LIGHTS IN DAYLIGHT ZONE THROUGH THE T500 AND LOCAL PHOTOCELL.
- T2 CEILING MOUNTED LINE VOLTAGE OCCUPANCY SENSOR. ROUTE LOCAL AREA LIGHTS THROUGH SENSOR.
- T3 (3) LINE VOLTAGE OCCUPANCY SENSOR SWITCH. ROUTE LOCAL AREA LIGHTS THROUGH SENSOR.
- T4 EMERGENCY BATTERY PACK SHALL NOT BE SWITCHED OR ROUTED THROUGH ANY CONTROLS, BUT LIGHT SHALL BE CONTROLED VIA OCCUPANY OR DAYLIGHT CONTROLS.
- T5 (3) LINE VOLTAGE 0-10V DIMMING OCCUPANCY SENSOR SWITCH. ROUTE LOCAL AREA LIGHTS THROUGH SENSOR.



NOTE: LOCATE JUNCTION BOXES IN CEILING SPACE ABOVE THE LOCATION OF THE SWITCHBANK FOR SPLICING OF LINE, LOAD, AND SWITCHED CONDUCTORS. PROVIDE GANGED BACKBOX FOR SWITCHES AS REQUIRED AND LABEL ALL CONDUCTORS SO AS TO INDICATE THEIR USE (LINE, LOAD, SWITCH), THE LOAD SERVED, AND THE CIRCUIT NUMBER.

A1 SWITCH BANK "SB" DETAIL

NO SCALE

LIGHTING FIXTURE (LUMINAIRE) SCHEDULE - CHICK-FIL-A P13 EDITION

NOTE: NOT ALL FIXTURE TYPES ARE USED IN ALL OF THE P13 BUILDINGS. CONFIRM WITH THE LIGHTING VENDOR FOR ANY UPDATES TO THE CURRENT LIGHTING MANUFACTURER AND CATALOG NUMBER.

MARK	MANUFACTURER	CATALOG NUMBER	NO. LAMPS/TYPE	WATTS	VOLTS	MOUNTING	REMARKS
A2	COOPER/METALUX	22FP4240C	INTEGRAL WITH FIXTURE	39 VA	120 V	RECESSED	2X2 LED FLAT PANEL
A2E	COOPER/METALUX	22FP4240C	INTEGRAL WITH FIXTURE	39 VA	120 V	RECESSED	2X2 EMERGENCY LED FLAT PANEL
B1	COOPER/METALUX	2VT3-LD5-4-G-120V-L840-CD1-SSL-U	INTEGRAL WITH FIXTURE	32 VA	120 V	SURFACE	MOUNT LIGHT TO BTM OF OVERHEAD WIRE SHELVING WITH CORD & PLUG
D3	COOPER/HALO	HC620D010-HM612830-61NDC	INTEGRAL WITH FIXTURE	21 VA	120 V	RECESSED	LED DOWNLIGHT WITH CLEAR REFLECTOR & TRIM RATED 2000 LUMENS, 3000K COLOR TEMP
D3E	COOPER/HALO	HC620D010IEM14-HM612830-61NDCIEM	INTEGRAL WITH FIXTURE	21 VA	120 V	RECESSED	SAME AS 'D3' EXCEPT WITH EMERGENCY BATTERY PACK/INTEGRAL TEST SWITCH
F	MEYA	30894-8 (144638)	INTEGRAL WITH FIXTURE	12 VA	120 V	CEILING	EGG LIGHT FURNISHED WITH A 12 WATT A19-GU24 LED LAMP
G1	COOPER/METALUX	4SLSTP4040DD-UNV	INTEGRAL WITH FIXTURE	44 VA			4760 LUMEN 4 FOOT LENSED LED STRIPLIGHT, MTD ABOVE DOOR FRAME
N	MINKA	4531-267B	1-LED11A19/827/D	11 VA	120 V	WALL	LAVATORY WALL SCONCE-SHADE POINTED DOWN W/ LED LAMP & CL ON LAVATORY
OA	PROGRESS LIGHTING	P5675-31 WITH P8799 TOP COVER LENS	2-(GE)LED12P30RW830255/ECO	24 VA	120 V	WALL	5" DIAMETER, 14" HEIGHT, WET LOCATION, UP/DOWN CYLINDER W/ 12 WATT PAR30 3K NFL LED LAMPS
OC	HUBBELL	FLL-42L-95-4K7-N-U-K-DB (SEE NOTE 4)	INTEGRAL WITH FIXTURE	97 VA	120 V	PIPE	FLOODLIGHT MTD ON ROOF ON 2" PIPE SUPPORT (BY OTHERS) AND AIMED AT FLAG AFTER DARK
OG	CREE LIGHTING	OSQ		86 VA	208 V		SEE CIVIL SHEET ES1 FOR SITE LIGHTING SPECIFICATIONS
OK	HUBBELL	LNC-SLU-3K-3-1	INTEGRAL WITH FIXTURE	13 VA	120 V	WALL	LED WALLPACK W/ CENTERLINE OF FIXTURE AT 8'0" ABV 0'0" (FINISH FLOOR LINE)
P1	MEYDA	142776	2-LED11A19/827/D	22 VA	120 V	PENDANT	31" DIA PEACH BASKET PENDANT WITH BTM AT 6'-3" AFF ABV TABLE, 8'-0" OTHERWISE
U	BESA LIGHTING	BES00298-060	FURNISHED	8 VA	120 V	PENDANT	RED FRIT GLASS, BRONZE CABLE & CANOPY, 6'-6" AFF
XA	COOPER/SURE-LITES	APCH7R	INTEGRAL WITH FIXTURE	4 VA	120 V	WALL	EXIT SIGN WITH BATTERY PACK AND TWO INTEGRAL ADJUSTABLE LAMPHEADS
XD	MULE LIGHTING	SPS-220/250-120/277	NONE	250 VA	120 V	WALL	INVERTER UNIT FOR EXTERIOR EGRESS LTG; ON AT DUSK, OFF AT DAWN, ON DURING PWR OUTAGE
Z1	COOPER/HALO	SLD405930WH	INTEGRAL WITH FIXTURE	12 VA	120 V	SURFACE	LED DOWNLIGHT PROVIDED BY CANOPY SUPPLIER INSTALLED BY CANOPY SUPPLIER, CONNECTION BY ELECTRICAL CONTRACTOR
Z2	LSI	CRUS-SC-LED-LW30-UE-WHT	INTEGRAL WITH FIXTURE	74 VA	120 V	RECESSED	CANOPY LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR
* MC	SENSOR SWITCH	CMR-PDT-9		-	120V	CEILING	CEILING MOUNTED LINE VOLTAGE OCCUPANCY SENSOR WITH DUEL TECHNOLOGY, LOCATED IN RESTROOM.
* MCL	SENSOR SWITCH	CM-PDT-9		-	24V	CEILING	CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR FOR LOCAL RECEPTACLE CONTROLS.
* MW	SENSOR SWITCH	WSX-WH		-	120V	WALL	WALL SWITCH OCCUPANCY SENSOR, AUTOMATIC ON AND OFF.
* MWD	SENSOR SWITCH	WSX-PDT-D-SA-WH		-	120V	WALL	MANUAL ON / AUTOMATIC OFF OCCUPANCY SWITCH, 0-10V DIMMING
* PC	SENSOR SWITCH	RMR-PC-ADC		-	120V	WALL	RECESSED AUTOMATIC PHOTOCELL FOR DAYLIGHT CONTROLS, FIELD COORDINATE MTD LOCATION.
* PP	SENSOR SWITCH	PP20		-	120V	JUNCTION BOX	POWER PACK FOR OCCUPANCY SENSOR 'MCL' AND RECEPTACLE CONTROL, AUTO ON / AUTO OFF.

NOTES:
1. LUMINAIRES UTILIZING DOUBLE-ENDED LAMPS AND CONTAIN BALLASTS THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OF EXTERNAL TO EACH LUMINAIRE PER NEC 410.130(G).
2. THE LIGHTING FIXTURE PACKAGE IS AVAILABLE THROUGH A NATIONAL ACCOUNT PROGRAM. REFER TO THE ELECTRICAL SPECIFICATIONS SHEET, SECTION C16500 FOR VENDOR INFORMATION.
3. THE ASTERISK (*) BESIDE THE FIXTURE MARK IN THE ABOVE SCHEDULE INDICATES THE FIXTURE IS A NON-PROTOTYPICAL LIGHT FIXTURE PER THE CFA NATIONAL P13 PROTOTYPE.
4. IF TYPE OC IS GROUND MOUNTED IN LIEU OF ROOF MOUNTED, PROVIDE EITHER THE FLL-VISOR-DB (VISOR) OR THE FLL-LOUVER-BL (LOUVER) FOR GLARE CONTROL.

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MARK T. KURZYNSKE
NEW JERSEY LICENSE # GE44646
STATE OF NEW JERSEY MARK T. KURZYNSKE No GE44646 LICENSED PROFESSIONAL ENGINEER
09/30/22

CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	03/29/2022	DESIGN NOTES
3	07/29/2022	DESIGN NOTES

- For Construction -

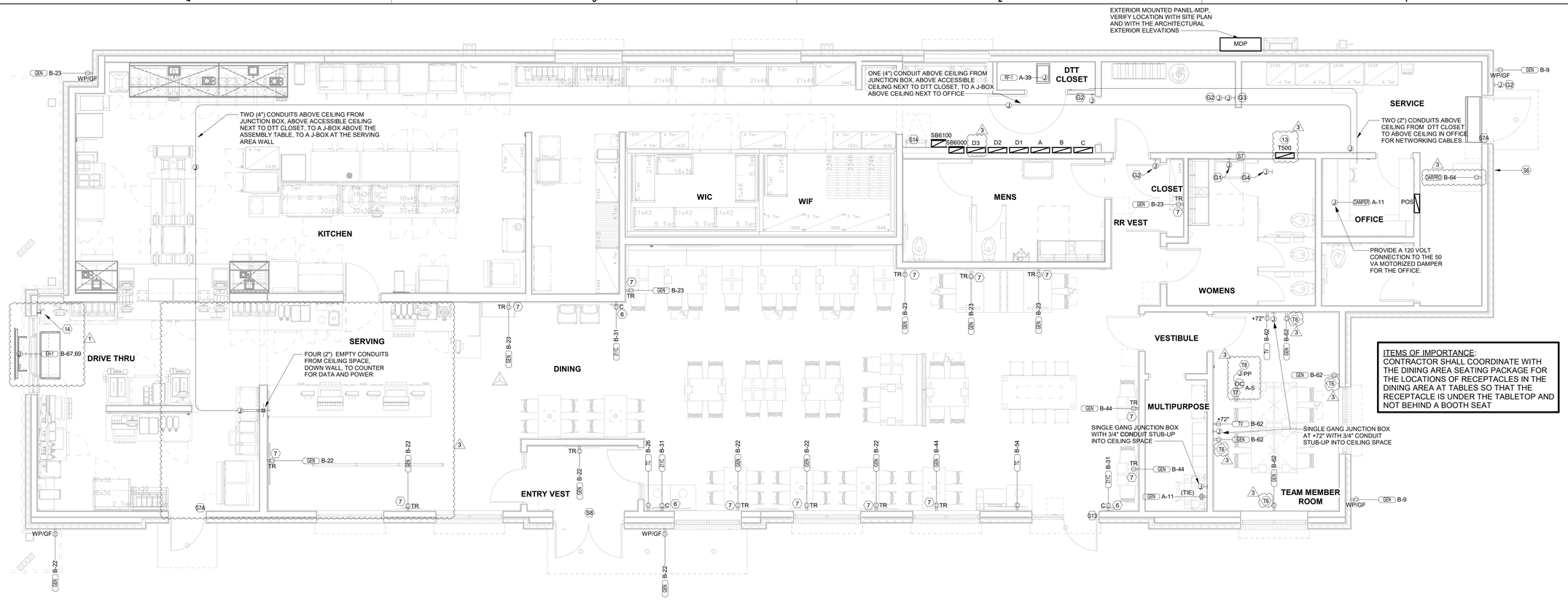
CONSULTANT PROJECT # 22008.EH.S
DATE 01/24/2022
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SHEET
LIGHTING PLAN

SHEET NUMBER
E-211L

9/30/2022 11:15:30 AM BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_ELE.rvt
50-LE-04591-E-211L-LIGHTING PLAN



C1 POWER AND SYSTEMS PLAN - LRG

1/4" = 1'-0"

ENERGY CONTROLS KEYNOTES

- T6 — OCCUPANCY CONTROLLED OUTLET. BOTTOM HALF OF OUTLET SHALL BE CONTROLED VIA LOCAL CEILING MOUNTED OCCUPANCY SENSOR (MCL) AND POWER PACK (PP). TOP HALF OF OUTLET SHALL NOT BE ROUTED THROUGH CONTROLS. CONTRACTOR SHALL PROVIDE COOPER/ARROW HART MODEL #4362 RECEPTACLE.
- T7 — CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR. ROUTE CONTROLED RECEPTACLES THROUGH SENSOR VIA POWER PACK PP. REFER TO KEYNOTE T5 FOR ADDITIONAL INFOMRATION.
- T8 — POWER PACK FOR AUTOMATIC RECEPTACLE CONTROLS MOUNTED ABOVE CEILING IN AN ACCESSIBLE LOCATION. CONNECT TO OCCUPANCY SENSOR (MCL). PROVIDE J-BOX FOR PROTECTION.

REFER TO THE ELECTRICAL SITE PLAN FOR ADDITIONAL REQUIREMENTS FOR THE DRIVE-THRU CASH STATION ("D" KEYNOTES)

POWER PLAN KEYNOTES

- 6 — PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MTG HT) IN AN ARLINGTON #DFR2W DOUBLE-GANG RECESSED BOX FOR THE FLYLIGHT SYSTEM ITEMS. DO NOT CUT THE CORDSET FURNISHED WITH THE UNIT, BUT COIL THE CORD ON THE BACK OF THE UNIT AND TUCK INTO THE BACKBOX.
- 7 — TAMPER RESISTANT (TR) DUPLEX RECEPTACLE (IN DINING AREAS) WITH USB CHARGER SHALL BE COOPER/ARROW HART #TR7756-B (BROWN) WITH MATCHING COLOR 'DECOR' STYLE PLATE. VERIFY COLOR WITH OWNER.
- 13 — THE STORE OPEN-CLOSE UNIT SWITCH IS FURNISHED WITH THE CFA-T500 CONTROL PANEL AND FACTORY INSTALLED IN THE DOOR OF THE CFA-T500 CABINET.
- 14 — TIMER SWITCH TO CONTROL CONTACTOR MOUNTED INSIDE, ABOVE ACCESSIBLE CEILING IN DRIVE-THRU AREA.

SECURITY KEYNOTES

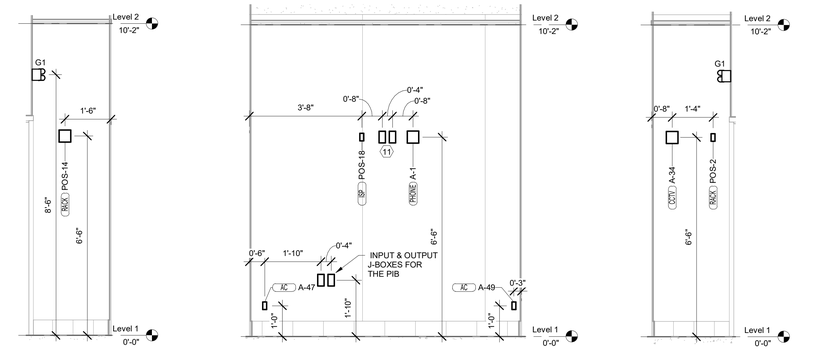
- S6 — PROVIDE A 1/2" CONDUIT THRU THE EXTERIOR WALL AND STUBBED INTO THE ACCESSIBLE CEILING SPACE FOR THE EXTERIOR WALL MOUNTED AUDIO-VISUAL ALARM NOTIFICATION DEVICE. VERIFY LOCATION WITH THE EXTERIOR ELEVATIONS AND WITH THE SECURITY INSTALLER - TYPICALLY TO BE LOCATED NEAR THE FIRE PROTECTION SYSTEM'S EXTERIOR ALARM UNIT AND VISIBLE FROM THE STREET.
- S7 — EXTEND 1/2" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.
- S7A — EXTEND 3/4" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.
- S8 — EXTEND 1/2" CONDUIT FROM A POINT 3" WITHIN EITHER HINGE-SIDE DOOR VERTICAL FRAME MULLION TO ABOVE ACCESSIBLE CEILING.
- S13 — EXTEND 1/2" CONDUIT FROM A POINT 3" INSIDE THE STRIKE-SIDE DOOR FRAME MULLION TO ABOVE ACCESSIBLE CEILING.
- S14 — PROVIDE JUNCTION BOX ON THE LATCH SIDE OF THE ROOF ACCESS HATCH WITH 1/2" CONDUIT ABOVE THE CEILING TO AN ACCESSIBLE CEILING SPACE FOR A DOOR CONTACT.

CO2 DETECTOR NOTES

- G1 — CO2 CENTRAL CONTROL UNIT - PROVIDE SINGLE-GANG BACKBOX AT 60" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE
- G2 — CO2 ANNUNCIATOR UNIT - PROVIDE SINGLE-GANG BACKBOX AT 60" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE
- G3 — CO2 SENSOR UNIT - PROVIDE SINGLE-GANG BACKBOX AT 12" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE
- G4 — CO2 POWER SUPPLY - PROVIDE SINGLE-GANG BACKBOX AT 18" BELOW CEILING WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE. PROVIDE DUPLEX OUTLET, AND CONNECT TO A LOCAL GENERAL OUTLET CIRCUIT. FIELD VERIFY EXACT LOCATION WITH STRONG SYSTEMS 800-500-5566

POWER PLAN GENERAL NOTES

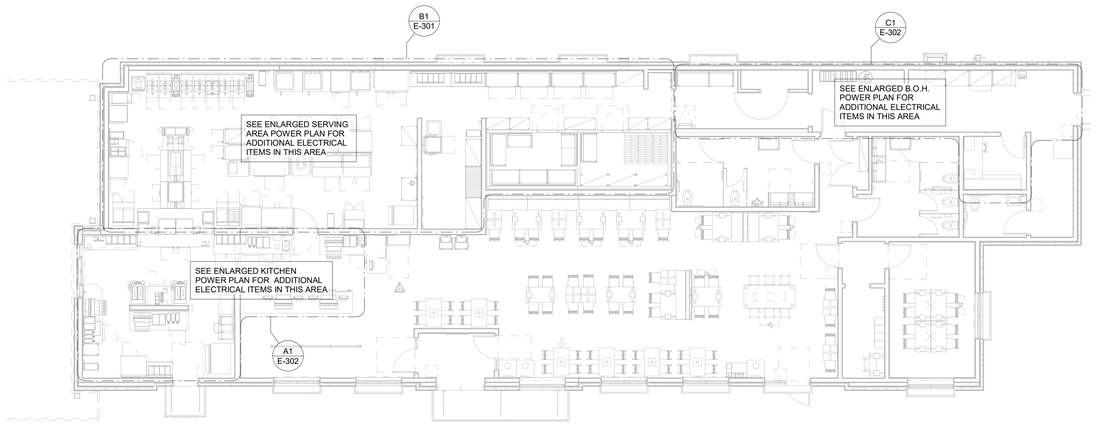
1. ALL SECURITY, POS, MUSIC, COMMUNICATIONS, AND POWER ROUGH-IN SHALL BE INSTALLED DURING THE FRAMING/ROUGH-IN PHASE OF CONSTRUCTION.
2. REFER TO KITCHEN EQUIPMENT SHEETS FOR EQUIPMENT ELECTRICAL ROUGH-IN ELEVATIONS ABOVE FINISHED FLOOR.
3. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
4. PROVIDE INSULATED BUSHING AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.
5. THE ELECTRICAL INSTALLER SHALL COORDINATE THE ROUTING OF ALL CONDUIT IN THE BUILDING WITH OTHER TRADES (SPECIFICALLY THE DUCTWORK INSTALLATION) TO AVOID CONFLICTS OF SPACE REQUIREMENTS IN WALLS AND CEILING SPACES.



B6 DTT ELEV LEFT — 1/2" = 1'-0"

B2 DTT ELEV CENTER — 1/2" = 1'-0"

B1 DTT ELEV RIGHT — 1/2" = 1'-0"



A1 ELECTRICAL KEY PLAN - LRG

1/8" = 1'-0"

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MARK T. KURZYNSKE
NEW JERSEY LICENSE # GE44646
STATE OF NEW JERSEY — MARK T. KURZYNSKE — NO. GE44646 — LICENSED PROFESSIONAL ENGINEER
09/30/22

CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
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CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	03/29/2022	DESIGN NOTES
3	07/29/2022	DESIGN NOTES

- For Construction -

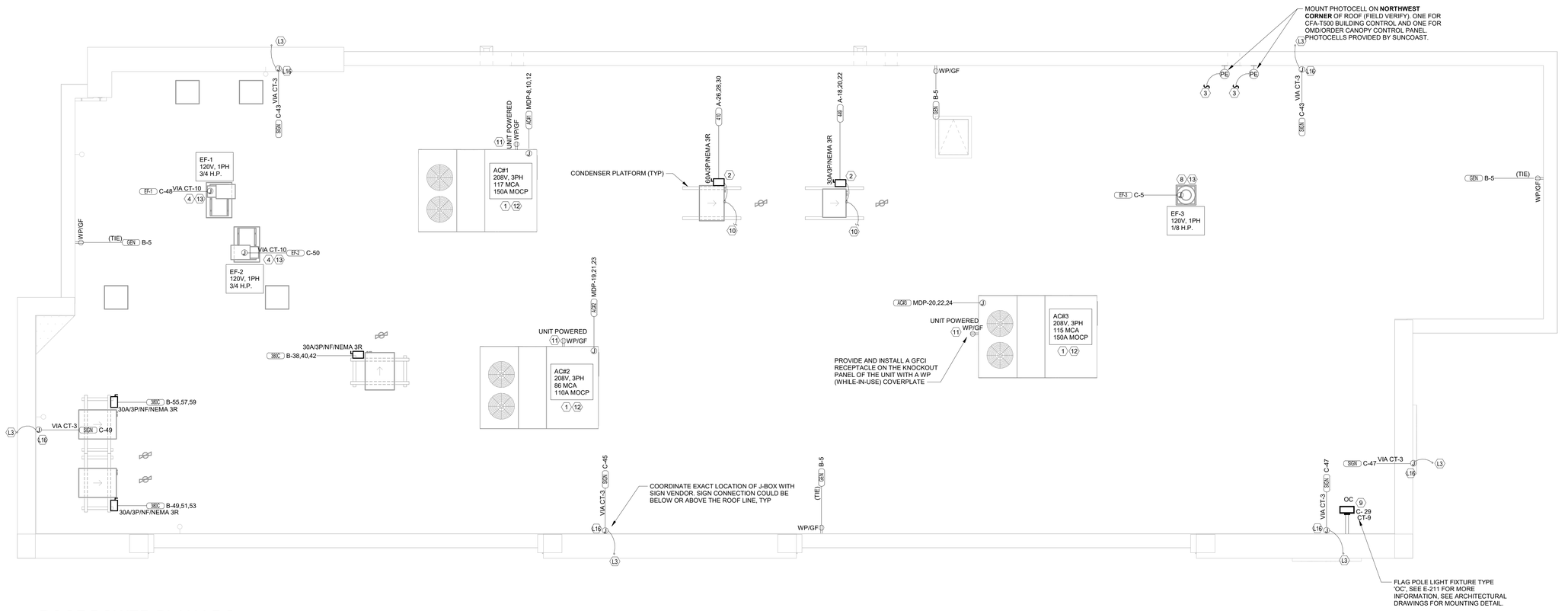
CONSULTANT PROJECT # 22008.EH.S
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SHEET
POWER AND SYSTEMS PLAN

SHEET NUMBER
E-221L

9/30/2022 11:15:39 AM BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_ELE.rvt
50-LE-04591-E-221L-POWER AND SYSTEMS PLAN



C1 ROOF POWER PLAN LRG

1/4" = 1'-0"

LIGHTING PLAN KEYNOTES

- L3 FOR SIGNAGE BY OTHERS; CONNECT AS REQUIRED. GROUND ALL LOCATIONS IN ACCORDANCE WITH NEC AND MANUFACTURER'S REQUIREMENTS. SIGN IS FURNISHED WITH AN INTEGRAL PRE-WIRED DISCONNECTING MEANS.
- L16 ROUTE THROUGH CONTROL PANEL CFA-T500 AND CONTROLLED BY OCCUPIED SWITCH AND PHOTOCELL.

ROOF POWER KEYNOTES

- 1 ROUTE ELECTRICAL CONDUITS TO UNIT CONNECTIONS THROUGH WEATHERPROOF RACEWAY FURNISHED WITH UNIT. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS.
- 2 MOUNT WEATHER-PROOF FUSED DISCONNECT SWITCHES FOR WIC AND WIF CONDENSERS ON UNISTRUT WITH CONDUIT DOWN INTO CEILING SPACE BELOW THRU ROOF PENETRATION DEVICE (NOT THRU ROOF), SEE THE ARCHITECTURAL ROOF PENETRATION DETAIL(S) FOR FURTHER INFORMATION. PROVIDE FUSE SIZE PER MANUFACTURER REQUIREMENTS.
- 3 CONNECT ONE PHOTOCELL ON ROOF TO THE CFA-T500 CONTROL PANEL TERMINALS AND ONE PHOTOCELL ON ROOF TO THE ORDER/OMD CANOPY CONTROL PANEL AS DIRECTED BY SUNCOAST ENVIRONMENTAL INC WIRING DIAGRAMS. PHOTOCELLS ON THE ROOF FURNISHED WITH CONTROL PANELS ORDER (SUNCOAST) AND INSTALLED BY CONTRACTOR.
- 4 COORDINATE EXACT LOCATION OF CONDUIT AND DISCONNECT AT EXHAUST FAN. CONDUIT SHALL BE INSTALLED THROUGH ROOF ON OUTSIDE OF FAN CURB. CONDUIT SHALL BE LOCATED AT FAN HINGE SUCH THAT THE FAN HOOD CAN BE FULLY HINGED OPEN AND NOT TOUCH THE CONDUIT. PROVIDE 14" DIAMETER LOOP IN THE FLEXIBLE CONDUIT BETWEEN THE ROOF AND THE FAN ELECTRICAL CONNECTION.
- 8 COORDINATE EXACT LOCATION OF CONDUIT AND DISCONNECT AT EXHAUST FAN. CONDUIT SHALL BE ROUTED WITH DUCTWORK WITHIN FAN ROOF CURB AND TO THE FAN WIREWAY. PROVIDE SEALTIGHT FITTINGS AS THE CONDUIT ENTERS AND LEAVES THE DUCTWORK. CIRCUIT WITH RESTROOM LIGHTNG AHEAD OF OCCUPANCY CONTROLS. REFER TO THE LIGHTING PLAN FOR CONTINUATION.
- 9 MOUNT TYPE 'OC' LIGHTING FIXTURE, WITH INTEGRAL SLIPFITTER, ON PIPE. PIPE WILL BE PROVIDED BY OTHER TRADES. AIM LIGHTING FIXTURE AT NIGHT FOR BEST ILLUMINATION OF FLAG.
- 10 CONNECT POWER FROM EACH CONDENSING UNIT'S COMPRESSOR CONTACTOR TO THE EVAPORATOR COIL UNIT'S JUNCTION BOX BELOW. REFER TO ENLARGED KITCHEN POWER PLAN FOR LOCATION.
- 11 CONVENIENCE RECEPTACLE PROVIDED PRE-INSTALLED IN HVAC UNIT. CONNECT TO 120 VOLT CIRCUIT AS REQUIRED AND/OR AS INDICATED. (NOTE THAT ONE UNIT WILL NOT BE FURNISHED WITH AN INTEGRAL PRE-INSTALLED RECEPTACLE OUTLET. CONTRACTOR SHALL PROVIDE A GFCI TYPE 20 AMP RECEPTACLE WITH IN-USE WP COVERPLATE MOUNTED TO THE OUTSIDE OF THE ROOFTOP AC UNIT.)
- 12 A/C UNIT DISCONNECT IS FURNISHED WITH A/C UNIT AND SHALL BE CONNECTED BY THE CONTRACTOR.
- 13 EXHAUST FAN IS FURNISHED WITH A PREWIRED DISCONNECT.

POWER PLAN GENERAL NOTES

1. ALL SECURITY, POS, MUSIC, COMMUNICATIONS, AND POWER ROUGH-IN SHALL BE INSTALLED DURING THE FRAMING/ROUGH-IN PHASE OF CONSTRUCTION.
2. REFER TO KITCHEN EQUIPMENT SHEETS FOR EQUIPMENT ELECTRICAL ROUGH-IN ELEVATIONS ABOVE FINISHED FLOOR.
3. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
4. PROVIDE INSULATED BUSHING AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.
5. THE ELECTRICAL INSTALLER SHALL COORDINATE THE ROUTING OF ALL CONDUIT IN THE BUILDING WITH OTHER TRADES (SPECIFICALLY THE DUCTWORK INSTALLATION) TO AVOID CONFLICTS OF SPACE REQUIREMENTS IN WALLS AND CEILING SPACES.

NOTE: REFER TO MECHANICAL DRAWINGS FOR ROOFTOP PACKAGED AC UNIT SCHEDULE. ALL UNITS ARE FURNISHED WITH FACTORY INSTALLED DISCONNECT SWITCH. REFER TO SAME SCHEDULE FOR INDICATION OF UNITS FURNISHED WITH FACTORY RECEPTACLE FOR COMPLIANCE WITH NEC 210-63.

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MARK T. KURZYNSKE
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STATE OF NEW JERSEY MARK T. KURZYNSKE NO. GE44646 LICENSED PROFESSIONAL ENGINEER
01/24/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
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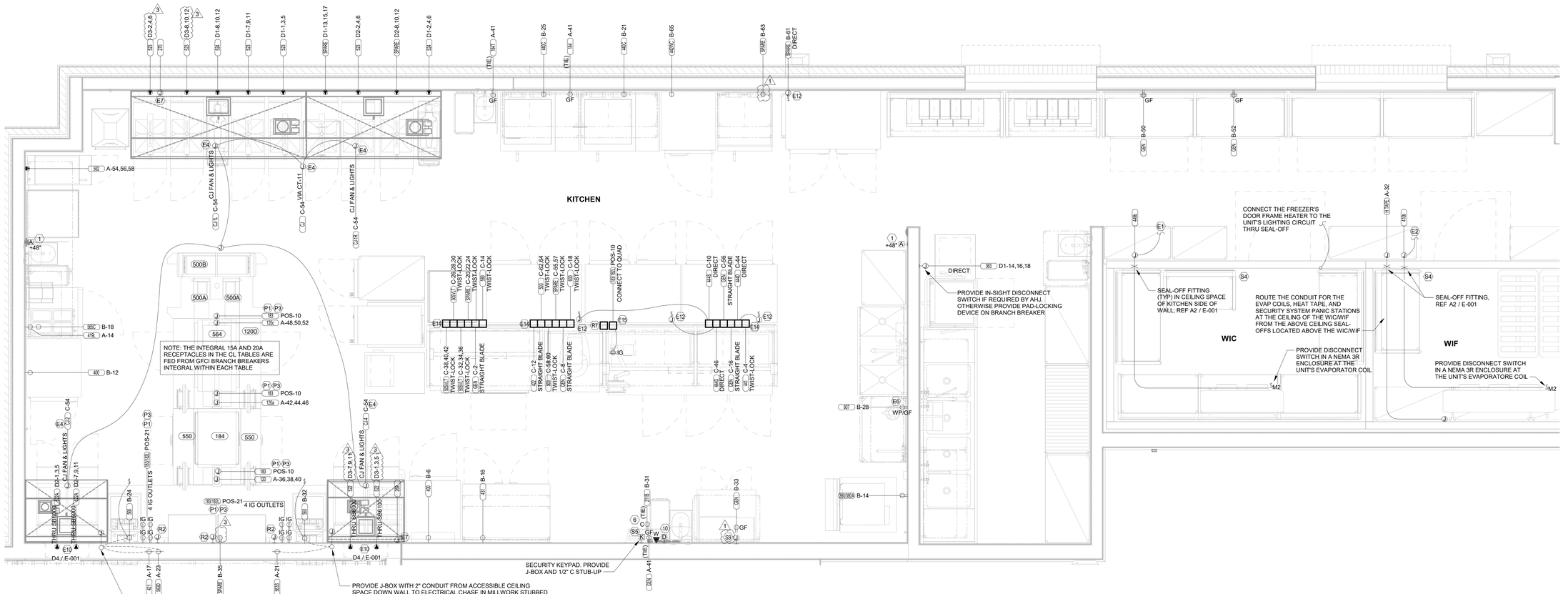
CONSULTANT PROJECT # 22008.EH.S
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SHEET
ROOF POWER PLAN

SHEET NUMBER
E-250L

1/24/2022 6:23:46 PM BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_ELE.rvt
50-LE-04591-E-250L-ROOF POWER PLAN



B1 ENLARGED KITCHEN POWER PLAN

1/2" = 1'-0"

POWER PLAN KEYNOTES

1. PROVIDE TWO-GANG DEEP BOX (2" MIN.) FOR ANSUL PULL STATION. EXTEND 1/2" CONDUIT FROM BOX, STUBBED ABOVE CEILING.
6. PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MTG HT) IN AN ARLINGTON #DVFR2W DOUBLE-GANG RECESSED BOX FOR THE FLY SYSTEM ITEMS. DO NOT CUT THE CORDSET FURNISHED WITH THE UNIT, BUT COIL THE CORD ON THE BACK OF THE UNIT AND TUCK INTO THE BACKBOX.
10. PROVIDE 2 GANG DEEP BOX (2" MIN.) FOR EACH DUCT SMOKE DETECTOR INDICATED ON THE MECHANICAL DRAWINGS FOR INSTALLATION OF DUCT DETECTOR REMOTE ANNUNCIATORS BY MECHANICAL. THE DUCT SMOKE REMOTE ANNUNCIATORS ARE PROVIDED TO THE ELECTRICIAN WITH THE SUNCOAST ELECTRONICS PACKAGE OF GEAR AND CONTROLS. EXTEND 1/2" CONDUIT FROM EACH BOX AND STUB ABOVE CEILING.

SECURITY KEYNOTES

S4. PROVIDE TWO GANG WEATHERPROOF JUNCTION BOX AND STAINLESS STEEL PLATE WITH 7/8" HOLE IN CENTER FOR PANIC BUTTON. LOCATE AT 48" AFF AND EXTEND 1/2" CONDUIT UP TO ABOVE ACCESSIBLE CEILING WITH CONDUIT SEAL FITTING. SEAL CONDUIT PENETRATION AT WIC/WIF CEILING.

S5. PROVIDE SINGLE GANG BOX WITHOUT COVER PLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.

S9. PROVIDE SINGLE GANG JUNCTION BOX WITHOUT COVERPLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.

POS DATA KEYNOTES

R2. PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS MONITOR(S). COVER PLATE PROVIDED BY OWNER'S POS SYSTEM VENDOR.

R7. PROVIDE A SINGLE GANG BOX FLUSH MOUNTED IN THE CEILING FOR THE POS DATA PLATE (BY OTHERS) FOR THE SALAD PREP AREA POS MONITOR AND PRINTER.

POS POWER KEYNOTES

P1. PROVIDE ORANGE ISOLATED GROUND (IG) DUPLEX RECEPTACLE.

P3. USE TYPE MC CABLE FOR THE ISOLATED GROUND CIRCUIT: #12 HOT, NEUTRAL, GREEN GROUND, STRIPED ISOLATED GROUND. EACH 15 AMP HOMERUN SHALL BE DEDICATED TO A CIRCUIT BREAKER VIA DEDICATED CONDUCTORS WITHIN A CABLE ASSEMBLY. ALL MC CABLES SHALL BE RUN OVERHEAD ABOVE THE CEILING AND RACKED TOGETHER ON J-HOOKS. NO SPLICES IN ANY HOMERUN CABLES FROM FIRST RECEPTACLE TO BREAKER.

ENLARGED POWER PLAN KEYNOTES

E1. CONNECT EVAPORATOR UNIT IN FREEZER TO FREEZER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE THE ROOF ELECTRICAL PLAN.

E2. CONNECT EVAPORATOR UNIT IN COOLER TO COOLER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE THE ROOF ELECTRICAL PLAN.

E4. CONNECT AS REQUIRED TO HOOD. CONNECT HOMERUN VIA A RELAY IN THE CFA-T500 CONTROL SECTION.

E6. SEE THE ROOF ELECTRICAL PLAN FOR THE LOCATION OF THE ICE MAKER CONDENSERS AND ANY ADDITIONAL REQUIREMENTS.

E7. PROVIDE 3#12 IN 1/2" CONDUIT BETWEEN THE CFA-T500 CONTROL PANEL AND THE ANSUL SYSTEM PANEL(S). SEE ANSUL SYSTEM WIRING DIAGRAM DETAIL ON SHEET E-002 FOR ADDITIONAL INFORMATION.

E8. PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLE IN COMPLIANCE WITH THE NEC REQUIREMENT FOR KITCHEN/FOOD PREP AREAS. IF THE RECEPTACLE OUTLET IS NOT NOTED AS GFCI, THEN THE BREAKER IS TO BE GFCI TYPE.

E10. THE RECESSED PIN AND SLEEVE BOX WITH THE 'SLEEVE' RECEPTACLE FOR THE OPEN FRYERS (ITEMS #522 AND 522A) ARE FURNISHED BY THE EXHAUST HOOD SUPPLIER AND INSTALLED BY THE CONTRACTOR. THE OPEN FRYER SUPPLIER PROVIDES PREWIRED CORDSET WITH A PIN DEVICE INTERGRAL WITH THE OPEN FRYER TO PLUG INTO THE SLEEVE RECEPTACLE.

E12. SINGLE POLE SWITCH SHALL SERVE AS THE LOCAL "IN-SIGHT" MEANS OF DISCONNECT FOR EQUIPMENT ITEM AS NOTED. SEE DIRECT CONNECTION DETAILS ON SHEET E-002 FOR FURTHER INFORMATION.

E14. OVERHEAD EQUIPMENT POWER (OEP) DROP CORD RECEPTACLES FROM A FLUSH MOUNTED CEILING OEP BOX (MAXIMUM OF SIX PER ASSEMBLY.) PROVIDE A-C-S OEP ASSEMBLY #12360-1000. ASSEMBLY WILL CONSIST OF A FLUSH CEILING OUTLET BOX, TWIST-LOCK PENDANT RECEPTACLES, STRAIGHT BLADE PENDANT RECEPTACLES, CORDS, STRAIN RELIEF, AND TWISTLOCK PLUGS AS NOTED ON PLAN. CONTACT BRIDGID DEFRAMCESHI EMAIL: BRIDGID1985@GMAIL.COM (800-639-7584) TO PURCHASE OEP BOX AND DROP CORD/RECEPTACLES. PROVIDE LIQUID-TIGHT CONDUIT WITH CONDUCTORS FOR DIRECT CONNECTED EQUIPMENT. CONDUIT SHALL NOT TOUCH THE FLOOR WHEN EQUIPMENT IS IN PLACE. USE SUPPORT GRIPS W/ SUPPORT HOOK ATTACHED TO SHELVING ABOVE AS NEEDED. PASS & SEYMOUR MODEL #FS075-U-GH5 OR EQUIVALENT.

E15. PROVIDE A DOUBLE-GANG BOX FLUSH MOUNTED IN THE CEILING WITH A BLANK PLATE WITH HOLE FOR A DROP CORD. PROVIDE THE #12 DROP CORD (WITH STRAIN RELIEF AT THE BOX AND AT THE OUTLET BACKBOX) AND CONNECT THE CORD TO AN OUTLET BOX CONTAINING TWO 15 AMP IG (ORANGE) DUPLEX OUTLETS. OUTLET BOX TO BE MOUNTED TO THE OVERHEAD SHELVING AT THE PRINTER AND MONITOR MOUNTING BRACKET.

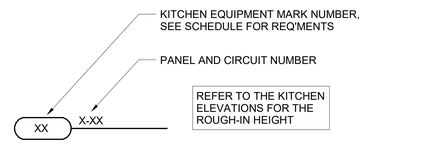
POWER PLAN GENERAL NOTES

1. ALL SECURITY, POS, MUSIC, COMMUNICATIONS, AND POWER ROUGH-IN SHALL BE INSTALLED DURING THE FRAMING/ROUGH-IN PHASE OF CONSTRUCTION.
2. REFER TO KITCHEN EQUIPMENT SHEETS FOR EQUIPMENT ELECTRICAL ROUGH-IN ELEVATIONS ABOVE FINISHED FLOOR.
3. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
4. PROVIDE INSULATED BUSHING AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.
5. THE ELECTRICAL INSTALLER SHALL COORDINATE THE ROUTING OF ALL CONDUIT IN THE BUILDING WITH OTHER TRADES (SPECIFICALLY THE DUCTWORK INSTALLATION) TO AVOID CONFLICTS OF SPACE REQUIREMENTS IN WALLS AND CEILING SPACES.

NOTE FOR GF TYPE RECEPTACLES IN KITCHEN/FOOD PREP AREAS:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL FOR ALL 125V - 250V RECEPTACLES SUPPLIED BY 120V SINGLE-PHASE BRANCH CIRCUITS 50 AMPS OR LESS, 208V SINGLE-PHASE BRANCH CIRCUITS 50 AMPS OR LESS, AND 208V THREE-PHASE BRANCH CIRCUITS 100 AMPS OR LESS. SEE FLOOR PLANS FOR ADDITIONAL INFORMATION.

NOTE FOR POS GF IN KITCHEN:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 120 VOLT, 15 AND 20 AMP ISOLATED GROUND RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE BREAKER VIA A GROUND FAULT TYPE BRANCH BREAKER. (GFCI TYPE ISOLATED GROUND RECEPTACLES ARE NOT AVAILABLE.)

NOTE:
RECEPTACLES FOR THE POS EQUIPMENT SHALL BE THE ONLY ITEMS THAT CONNECT TO PANEL-POS. THERE SHALL BE NO OTHER LOADS CONNECTED TO THIS ISOLATED GROUND PANEL AND, IF SO, SHALL BE REMOVED AND RECONNECTED TO ANOTHER PANELBOARD AT THE EXPENSE OF THE CONTRACTOR.



1A KITCHEN EQUIP NOMENCLATURE

NO SCALE

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STATE OF NEW JERSEY MARK T. KURZYNSKE NO GE44646 LICENSED PROFESSIONAL ENGINEER
09/30/22

CHICK-FIL-A
WEST POND FSR

320 US 9N
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FSR#04591

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1	03/29/2022	DESIGN NOTES
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DATE 01/24/2022
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SHEET
ENLARGED KITCHEN POWER PLAN

SHEET NUMBER
E-301

9/30/2022 11:15:44 AM BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_ELE.rvt
50-LE-04591-E-301-ENLARGED KITCHEN POWER PLAN

NOTE:
RECEPTACLES FOR THE POS EQUIPMENT SHALL BE THE ONLY ITEMS THAT CONNECT TO PANEL-POS. THERE SHALL BE NO OTHER LOADS CONNECTED TO THIS ISOLATED GROUND PANEL AND, IF SO, SHALL BE REMOVED AND RECONNECTED TO ANOTHER PANELBOARD AT THE EXPENSE OF THE CONTRACTOR.

NOTE FOR GF TYPE RECEPTACLES IN KITCHEN/FOOD PREP AREAS:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL FOR ALL 125V - 250V RECEPTACLES SUPPLIED BY 120V SINGLE-PHASE BRANCH CIRCUITS 50 AMPS OR LESS, 208V SINGLE-PHASE BRANCH CIRCUITS 50 AMPS OR LESS, AND 208V THREE-PHASE BRANCH CIRCUITS 100 AMPS OR LESS. SEE FLOOR PLANS FOR ADDITIONAL INFORMATION.

NOTE FOR POS GF IN KITCHEN:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 120 VOLT, 15 AND 20 AMP ISOLATED GROUND RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE BREAKER VIA A GROUND FAULT TYPE BRANCH BREAKER. (GFCI TYPE ISOLATED GROUND RECEPTACLES ARE NOT AVAILABLE.)

ENERGY CONTROLS KEYNOTES

- T6 OCCUPANCY CONTROLLED OUTLET. BOTTOM HALF OF OUTLET SHALL BE CONTROLED VIA LOCAL CEILING MOUNTED OCCUPANCY SENSOR (MCL) AND POWER PACK (PP). TOP HALF OF OUTLET SHALL NOT BE ROUTED THROUGH CONTROLS. CONTRACTOR SHALL PROVIDE COOPER/ARROW HART MODEL #4362 RECEPTACLE.
- T7 CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR. ROUTE CONTROLED RECEPTACLES THROUGH SENSOR VIA POWER PACK PP. REFER TO KEYNOTE T5 FOR ADDITIONAL INFOMRATION.
- T8 POWER PACK FOR AUTOMATIC RECEPTACLE CONTROLS MOUNTED ABOVE CEILING IN AN ACCESSIBLE LOCATION. CONNECT TO OCCUPANCY SENSOR (MCL). PROVIDE J-BOX FOR PROTECTION.

POWER PLAN KEYNOTES

- 2 PROVIDE EDWARDS #340-4N5 VIBRATING 4" DIAMETER BELL. THE BELL SHALL BE RATED AT 120 VOLTS.
- 3 PROVIDE A 120 VOLT WEATHERPROOF DOORBELL PUSHBUTTON AT DOOR. PUSHBUTTON SHALL BE FLUSH MOUNTED. PROVIDE DORTRONICS SYSTEMS #W5286-P25 CLEAR ANODIZED ALUMINUM PUSHBUTTON WITH SINGLE GANG SWITCHPLATE.
- 4 TWO 2" TELEPHONE SERVICE ENTRANCE CONDUIT(S). EXTEND WITH PULL STRING FROM TELEPHONE SERVICE J-BOX TO THE UTILITY SOURCE. REFER TO THE ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.
- 6 PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MTG HT) IN AN ARLINGTON #DVFR2W DOUBLE-GANG RECESSED BOX FOR THE FLY SYSTEM ITEMS. DO NOT CUT THE CORDSET FURNISHED WITH THE UNIT, BUT COIL THE CORD ON THE BACK OF THE UNIT AND TUCK INTO THE BACKBOX.
- 8 SB6000 PANEL ENCLOSURE WITH 3 LITTELFUSE SHOCK BLOCK GFCI PROTECTION DEVICES AND SB6100 PANEL ENCLOSURE SHOCK BLOCK GFCI PROTECTION DEVICE. ENSURE CONDUITS ARE INSTALLED FOR LINE AND LOAD WIRES TO BE INSTALLED WITH PROPER WIRE BENDING SPACE. LABEL EACH SHOCK BLOCK WITH PANEL AND CIRCUIT NUMBER IT CONTROLS.
- 9 ONE 3" ISP SERVICE CONDUIT. EXTEND WITH PULL STRING FROM J-BOX TO SUPPLIER'S SOURCE, REFER TO ELECTRICAL SITE PLAN FOR ADDITION INFORMATION.
- 11 PROVIDE TWO 6"H X 6"W X 4"D J-BOXES (ONE FOR TELEPHONE AND ONE FOR ISP) AT 6'-6" AFF AND EXTEND A 2" CONDUIT WITH PULL STRING IN THE WALL FROM EACH J-BOX INTO THE ACCESSIBLE CEILING SPACE. PROVIDE A 36" X 36" X 3/4" PLYWOOD BACKBOARD ON THE WALL ABOVE THE J-BOXES (AT THE CEILING) FOR USE BY THE ISP. PROVIDE A COPPER GROUND BAR (EQUAL TO ERICO TGBA24L14P) AT THE BOTTOM OF THE BACKBOARD WITH A #6 AWG INSULATED CU GROUNDING CONDUCTOR IN A 3/4"C FROM THE GROUND BAR TO THE INTER SYSTEM BONDING TERMINATION NEXT TO THE SERVICE ENTRANCE. THE GROUND BAR SHALL HAVE TAPS FOR USE BY THE TELEPHONE AND ISP UTILITY COMPANIES AND FOR THE #6 COMMUNICATIONS GROUNDING CONDUCTOR TO THE GES. PROVIDE A 15 AMP ISOLATED GROUND (IG) ORANGE-FACED DUPLEX RECEPTACLE IN THE WALL BESIDE THE BACKBOARD AND LABEL THE RECEPTACLE "FOR FIBER TO CABLE MODEM USE ONLY". BOND NETWORK RACKS TO GROUND BAR.
- 12 PROVIDE JUNCTION BOX AT 8"-0" AFF WITH CONDUIT AND CONDUCTORS TO PANELBOARD FOR FUTURE CONNECTION TO BOOSTER PUMP. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

SECURITY KEYNOTES

- S1 PROVIDE SINGLE GANG JUNCTION BOX AND STAINLESS STEEL COVER PLATE WITH 7/8" HOLE IN CENTER. EXTEND 1" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.
- S2 PROVIDE 4"W X 4"H X 3"D FLUSH JUNCTION BOX WITHOUT A COVERPLATE. EXTEND 2" CONDUIT UP TO ABOVE ACCESSIBLE OFFICE CEILING AREA AND PROVIDE BUSHING ON CONDUIT.
- S3 PROVIDE A SINGLE-GANG JUNCTION BOX WITH A 1.5" CONDUIT STUBBED UP INTO ACCESSIBLE CEILING SPACE WITH A BUSHING ON THE CONDUIT END FOR THE CCTV MONITOR AND DVR LOCATION.
- S5 PROVIDE SINGLE GANG BOX WITHOUT COVER PLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.
- S10 PROVIDE SINGLE GANG JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED ABOVE THE CEILING SPACE AND ABOVE ON THE INTERIOR SIDE OF THE REAR DOOR. ROUTE 1" CONDUIT FROM THE BOX TO THE "S12" BOX NOTED BELOW.
- S11 EXTEND 1/2" CONDUIT FROM WINDOW'S FRAME MULLION (RIGHT SIDE) TO ABOVE ACCESSIBLE CEILING.
- S12 PROVIDE SINGLE GANG, WEATHER-PROOF JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED ABOVE THE REAR DOOR ON THE EXTERIOR WALL. ROUTE 1" CONDUIT FROM THE BOX AND INTO THE BUILDING AND TERMINATE CONDUIT IN THE BOX NOTED IN "S10" ABOVE.

COMMUNICATIONS KEYNOTES

- C2 PROVIDE JUNCTION BOX, LESS COVER PLATE, AND EXTEND 1.5" CONDUIT UP IN WALL TO ABOVE CEILING FOR INSTALLATION OF WIRELESS COMMUNICATION CONTROL UNIT.
- C4 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" EMPTY CONDUIT STUBBED UP INTO THE ACCESSIBLE CEILING SPACE FOR OWNER'S VOIP PHONE JACK AND CABLES.
- C5 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 3/4" EMPTY CONDUIT STUBBED UP INTO THE ACCESSIBLE CEILING SPACE FOR FUTURE MENU BOARD CABLES.

MUSIC KEYNOTES

- M1 PROVIDE JUNCTION BOX WITH STAINLESS STEEL COVER PLATE AND 3/4" HOLE IN PLATE WITH GROMMET ON HOLE IN PLATE. EXTEND 3/4" CONDUIT UP IN WALL TO ABOVE CEILING FOR MUSIC SYSTEM.
- M3 THREE SINGLE GANG EXTRA DEEP J-BOXES STACKED WITH A 1/2" CONDUIT FROM EACH TO THE TOP J-BOX BOX AND A 1" CONDUIT STUBBED INTO THE CEILING SPACE FOR MUSIC SYSTEM VOLUME CONTROLS PROVIDED BY OWNER'S VENDOR.
- M4 PROVIDE A SINGLE GANG EXTRA DEEP JUNCTION BOX AT 74" AFF WITH 1/2" CONDUIT STUBBED INTO THE CEILING SPACE FOR MUSIC SYSTEM VOLUME CONTROLS.

ENLARGED POWER PLAN KEYNOTES

- E6 SEE THE ROOF ELECTRICAL PLAN FOR THE LOCATION OF THE ICE MAKER CONDENSERS AND ANY ADDITIONAL REQUIREMENTS.
- E13 JUNCTION BOX ABOVE CEILING FOR AD-1 AT THE DRIVE-THRU WINDOW.

POS POWER KEYNOTES

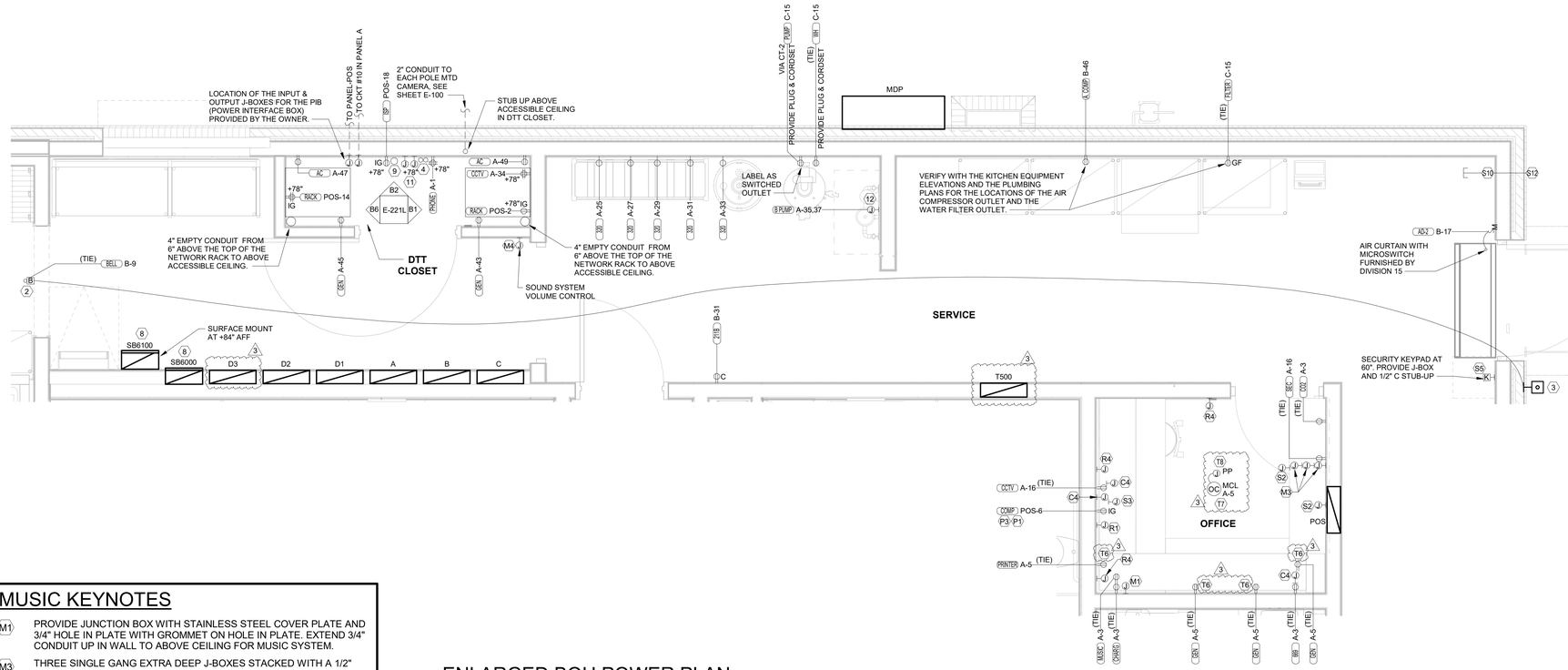
- P1 PROVIDE ORANGE ISOLATED GROUND (IG) DUPLEX RECEPTACLE.
- P2 PROVIDE GROUND FAULT PROTECTION FOR THESE DEVICES VIA A GROUND FAULT CIRCUIT BREAKER IF LOCAL CODE DEFINES THIS A FOOD PREPARATION AREA.
- P3 USE TYPE MC CABLE FOR THE ISOLATED GROUND CIRCUIT: #12 HOT, NEUTRAL, GREEN GROUND, STRIPED ISOLATED GROUND. EACH 15 AMP HOMERUN SHALL BE DEDICATED TO A CIRCUIT BREAKER VIA DEDICATED CONDUCTORS WITHIN A CABLE ASSEMBLY. ALL MC CABLES SHALL BE RUN OVERHEAD ABOVE THE CEILING AND RACKED TOGETHER ON J-HOOKS. NO SPLICES IN ANY HOMERUN CABLES FROM FIRST RECEPTACLE TO BREAKER.
- P4 THE RECEPTACLE BACKBOX AND SYSTEM CABLE JUNCTION BOX FOR ITEMS 180 AND 182 SHALL BE TURNED HORIZONTAL. REFER TO THE KITCHEN EQUIPMENT ROUGH-IN ELEVATIONS FOR ADDITIONAL INFORMATION.

POS DATA KEYNOTES

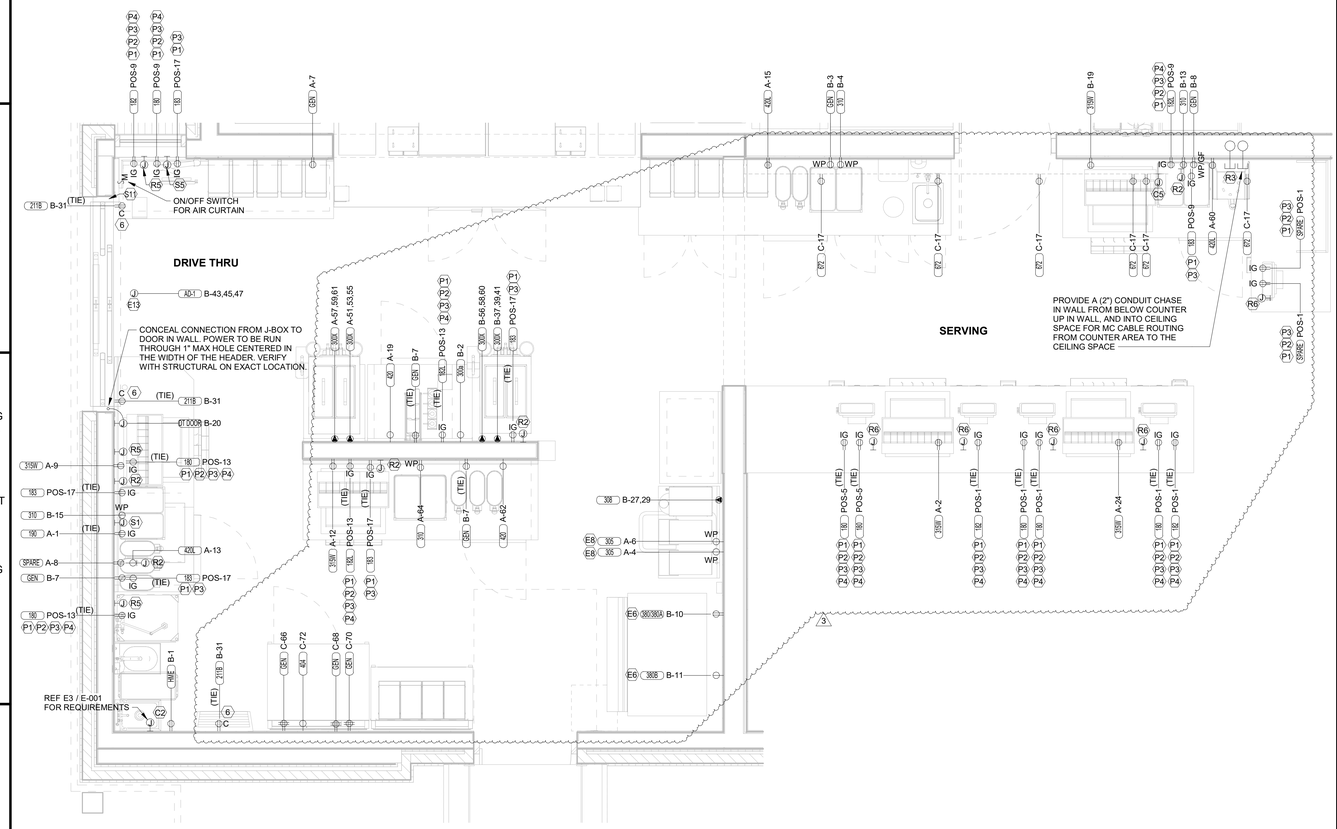
- R1 PROVIDE A 'RETROFIT' SINGLE GANG RING (CARLON #SC100RR) FOR OWNER'S DEVICE PLATE WITH A 1" EMPTY CONDUIT AT THE OPENING STUBBED UP INTO THE CEILING SPACE FOR OWNER'S DATA CABLES.
- R2 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS MONITOR(S). COVER PLATE PROVIDED BY OWNER'S POS SYSTEM VENDOR.
- R3 PROVIDE A 2" CONDUIT FROM FACE OF WALL AND EXTEND CONDUIT TO JUNCTION BOX IN CELING SPACE ABOVE SERVING AREA. CONDUIT SHALL TERMINATE FLUSH WITH FACE OF WALL BELOW COUNTER. CUSTOM STAINLESS STELL COVER PLATE IN WALL WITH GROMMET ON 2" DIAMETER HOLE AT CONDUIT TERMINATION IN WALL.
- R4 PROVIDE A 'RETROFIT' SINGLE GANG RING (CARLON #SC100RR) FOR OWNER'S DEVICE PLATE WITH A 1" EMPTY CONDUIT AT THE OPENING STUBBED UP INTO THE CEILING SPACE FOR OWNER'S DATA CABLES.
- R5 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS TERMINAL. POS SYSTEM SUPPLIER WILL PROVIDE COVER PLATE ON BOX.
- R6 PROVIDE SINGLE-GANG EXTRA DEEP JUNCTION BOX MOUNTED ON THE MOUNTING PLATE WITHIN THE FRONT SERVING COUNTER CASEWORK. MOUNT BOX ADJACENT TO THE RECEPTACLE FOR EQUIPMENT 180. DO NOT MOUNT BOX BETWEEN EQUIPMENT 180 AND EQUIPMENT 182 RECEPTACLES.

POWER PLAN GENERAL NOTES

1. ALL SECURITY, POS, MUSIC, COMMUNICATIONS, AND POWER ROUGH-IN SHALL BE INSTALLED DURING THE FRAMING/ROUGH-IN PHASE OF CONSTRUCTION.
2. REFER TO KITCHEN EQUIPMENT SHEETS FOR EQUIPMENT ELECTRICAL ROUGH-IN ELEVATIONS ABOVE FINISHED FLOOR.
3. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
4. PROVIDE INSULATED BUSHING AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.
5. THE ELECTRICAL INSTALLER SHALL COORDINATE THE ROUTING OF ALL CONDUIT IN THE BUILDING WITH OTHER TRADES (SPECIFICALLY THE DUCTWORK INSTALLATION) TO AVOID CONFLICTS OF SPACE REQUIREMENTS IN WALLS AND CEILING SPACES.



C1 ENLARGED BOH POWER PLAN
1/2" = 1'-0"



A1 ENLARGED SERVING AREA POWER PLAN
1/2" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

Kurzynske & Associates
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MARK T. KURZYNSKE
NEW JERSEY LICENSE # GE44646

09/30/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	07/29/2022	DESIGN NOTES

- For Construction -

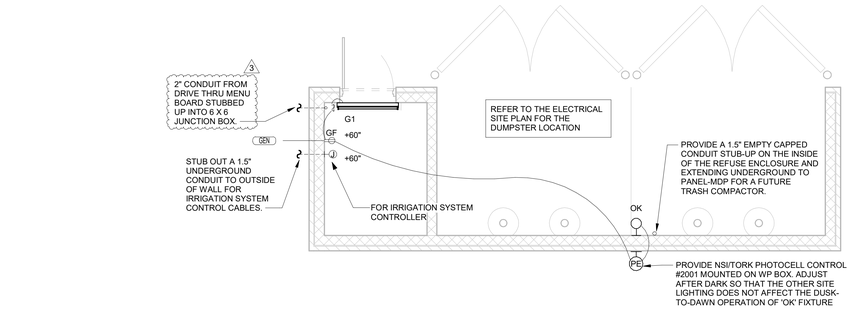
CONSULTANT PROJECT # 22008.EH.S
DATE 01/24/2022
DRAWN BY BTS

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SHEET
ENLARGED SERVING AND BOH POWER PLAN

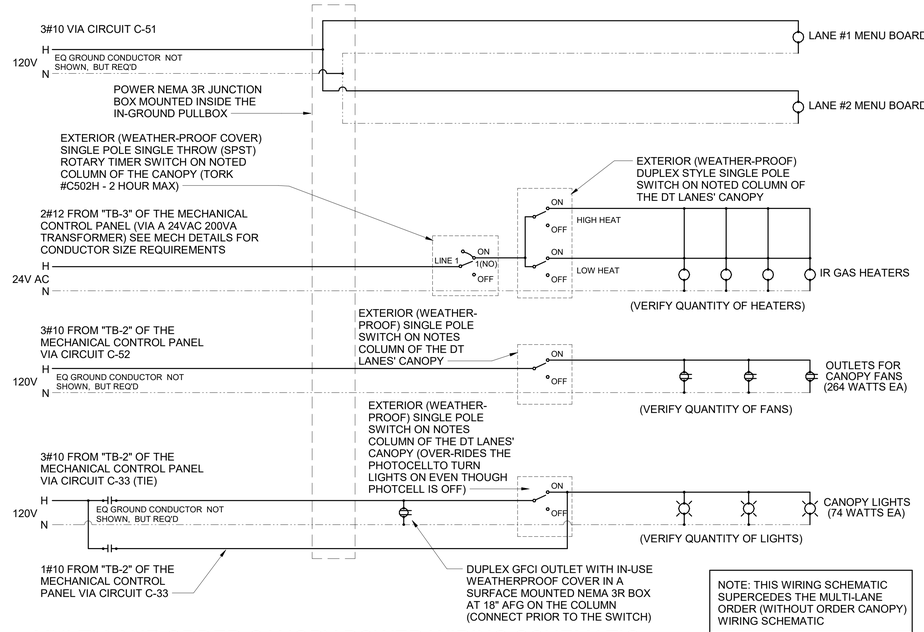
SHEET NUMBER
E-302

9/30/2022 11:15:49 AM BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_ELE.rvt
50-LE-04591-E-302-ENLARGED SERVING AND BOH POWER PLAN



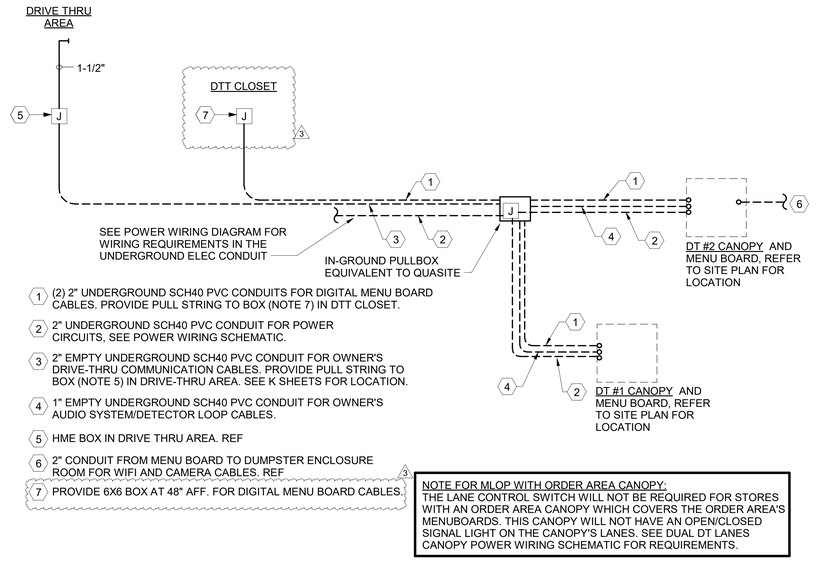
D1 REFUSE ENCLOSURE ELECTRICAL PLAN

1/4" = 1'-0"



B1 MULTI-LANE ORDER CANOPY POWER WIRING SCHEMATIC

N.T.S.



A1 MLOP DT REQUIREMENTS - WITH ORDER AREA F2F CANOPY

NO SCALE

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MARK T. KURZYNSKE
NEW JERSEY LICENSE # GE44646
STATE OF NEW JERSEY MARK T. KURZYNSKE NO. GE44646 LICENSED PROFESSIONAL ENGINEER
09/30/22

CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	07/29/2022	DESIGN NOTES

- For Construction -

CONSULTANT PROJECT # 22008.EH.S
DATE 01/24/2022
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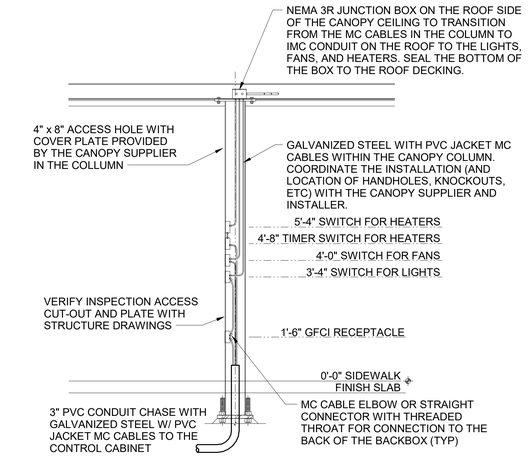
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SHEET
DT ORDERING AREA DETAILS & REFUSE ENCLOSURE PLAN
SHEET NUMBER
E-303

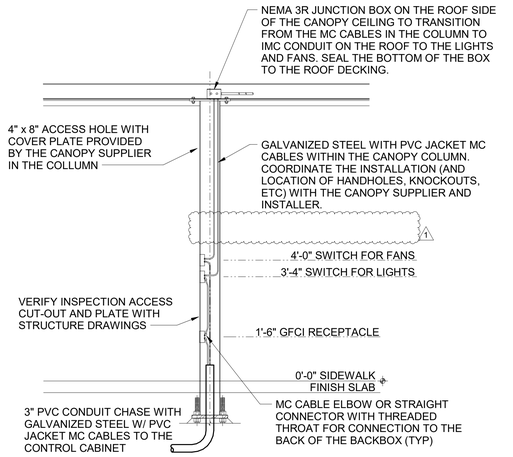
9/30/2022 11:15:50 AM BIM 360://NU_04591_West Pond_2020.11_FSR/04591_West Pond_ELE.rvt
50-LE-04591-E-303-DT ORDERING AREA DETAILS & REFUSE ENCLOSURE PLAN

ORDER CANOPY ELECTRICAL KEYNOTES:

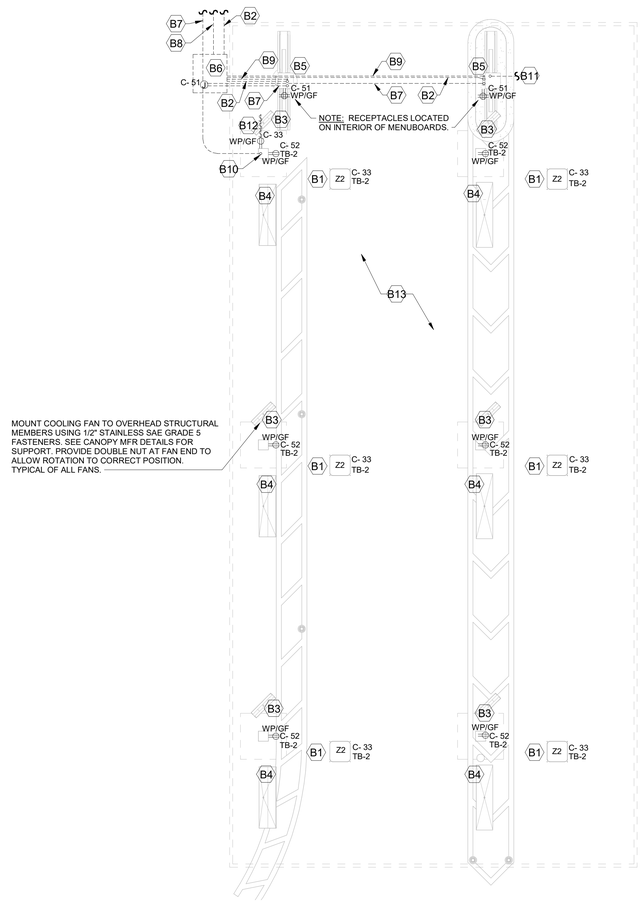
- B1 CEILING LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY E.C.
- B2 (2) 2" UNDERGROUND SCH40 PVC CONDUIT FOR MENU BOARD FIBER. PROVIDE PULL STRING. STUB UP INTO ACCESSIBLE CEILING SPACE AT DTT CLOSET OR OFFICE IF NO DTT CLOSET.
- B3 AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED BY OTHERS. PROVIDE A DUPLEX OUTLET (WITH IN-USE COVER PLATE) FLUSH MOUNTED IN CUT-OUT AT TOP OF COLUMN FOR FAN'S PLUG AND CORD. OUTLET TO BE ON DOWNSTREAM SIDE OF COLUMN AND AWAY FROM ONCOMING VEHICLES' VIEW.
- B4 INFRARED GAS HEATER WITH INTEGRAL ON-OFF SWITCH PROVIDED BY OTHERS.
- B5 MENUBOARD PROVIDED BY OTHERS.
- B6 PROVIDE IN-GROUND QUAZITE PULLBOX FOR MLOP DATA CABLES WITH POWER NEMA 3R JUNCTION BOX MOUNTED INSIDE THE PULLBOX.
- B7 2" UNDERGROUND SCH40 PVC CONDUIT WITH POWER CIRCUITS, SEE WIRING SCHEMATIC.
- B8 2" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR OWNER'S DETECTOR LOOP CABLES. EXTEND CONDUITS UP INTO ACCESSIBLE CEILING SPACE ABOVE THE HME BOX IN THE DRIVE THRU AREA.
- B9 1" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR OWNER'S AUDIO SYSTEM/DETECTOR LOOP CABLES.
- B10 INSTALL UNDERGROUND 3" SCH40 PVC CONDUIT UP INTO THE CANOPY COLUMN WITH TYPE MC CABLE (GALVANIZED STEEL WITH PVC JACKET) RUN WITHIN FOR THE 120V POWER FOR LIGHTS, 120 VOLT POWER FOR FANS, AND 24 VOLT POWER FOR THE INFRARED GAS HEATERS.
- B11 2" CONDUIT FROM DRIVE-THRU MENU BOARD TO DUMPSTER ENCLOSURE ROOM FOR WIFI AND CAMERA CABLES.
- B12 PROVIDE ONE DUPLEX GFCI (WITH IN-USE WP COVER PLATE), TWO 120V SINGLE-POLE SWITCHES (EACH WITH HUBBELL #RW51550 WP COVER PLATE), AND ONE DUPLEX SINGLE-POLE SWITCH (WITH HUBBELL #RW51470 WP COVER PLATE) MOUNTED ON THE COLUMN IN FLUSH MOUNTED METAL SINGLE GANG BOXES FOR LOCAL ON-OFF CONTROL OF THE FAN, TWO-STAGE HEATERS, AND CANOPY LIGHTS. SEE WIRING SCHEMATIC AND CANOPY COLUMN DETAILS FOR FURTHER INFORMATION. ALL SURFACE MOUNTED ITEMS AND COVER PLATES TO BE FIELD PAINTED MATTE BLACK.
- B13 ALL CONDUIT AND BOXES SHALL BE CONCEALED FROM NORMAL VIEW; UNDERGROUND, IN COLUMNS, OR ABOVE THE CANOPY (ON THE ROOF). MC CABLE (GALVANIZED STEEL WITH PVC JACKET) TO BE USED INSIDE THE COLUMNS, BUT MUST CONVERT BACK TO IMC ABOVE THE ROOF. REFER TO THE MECHANICAL DRAWINGS FOR LOCATIONS OF GAS PIPING ABOVE THE ROOF AND INSTALL CONDUIT ALONG THE SAME LOCATIONS USING THE SAME PIPE STAND FOR PIPING AND CONDUIT. ALL EXPOSED ELECTRICAL BOXES TO BE NEMA 3R CAST-METAL.



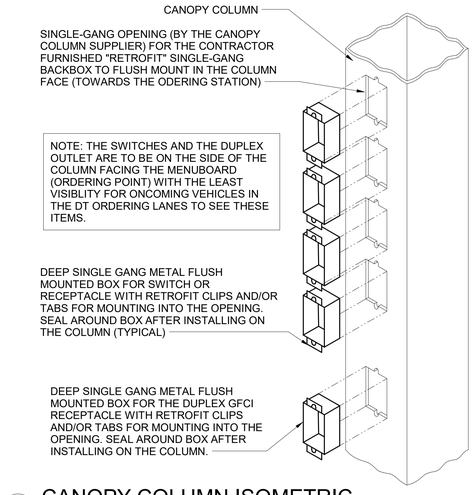
D2 MLOP ORDER CANOPY COLUMN SECTION
N.T.S.



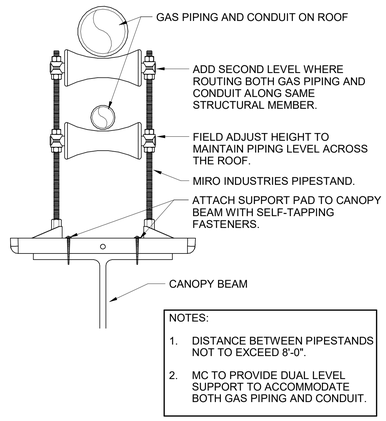
D1 MEAL DELIVERY CANOPY COLUMN SECTION
N.T.S.



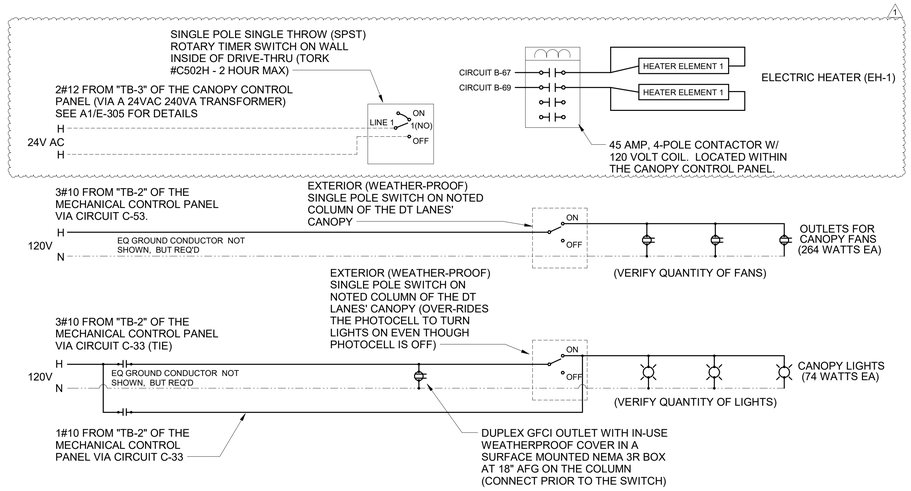
B4 MLOP ORDER CANOPY POWER PLAN
1/4" = 1'-0"



C3 CANOPY COLUMN ISOMETRIC
N.T.S.



C1 PIPING SUPPORT ON CANOPY
1/4" = 1'-0"



A1 MEAL DELIVERY CANOPY POWER WIRING SCHEMATIC
N.T.S.

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MARK T. KURZYNSKE
NEW JERSEY LICENSE # GE44646
STATE OF NEW JERSEY · MARK T. KURZYNSKE · NO. GE44646 · LICENSED PROFESSIONAL ENGINEER
04/06/22

CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR **CONSTRUCTION**

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	03/29/2022	DESIGN NOTES

- For Construction -

CONSULTANT PROJECT # 22008.EH.S
DATE 01/24/2022
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SHEET
ORDER CANOPY PLAN AND DETAILS

SHEET NUMBER
E-304

4/6/2022 10:57:53 AM BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_ELE.rvt
50-LE-04591-E-304-ORDER CANOPY PLAN AND DETAILS

SEQUENCE OF OPERATION

STORE SWITCH IN "STORE OPEN" POSITION

A. INFRARED HEATERS ARE ENABLED.
B. COOLING FANS ARE ENABLED.
C. LIGHTS ARE ENABLED.
D. MASTER AUTO/OFF SWITCH FOR IR HEATERS AND COOLING FANS. PROVIDE SINGLE POINT ON/OFF CONTROL.

STORE SWITCH IN "STORE CLOSED" POSITION

A. INFRARED HEATERS ARE DISABLED.
B. COOLING FANS ARE DISABLED.
C. LIGHTS ARE DISABLED.

NOTES

1. CONTRACTOR SHALL PURCHASE CONTROL PANEL DIRECT FROM SUNCOAST ENVIRONMENTAL CONTROLS (727-544-6679).
2. COORDINATE WITH GC TO ESTABLISH LOCATION TO MOUNT PANEL IN A CONDITIONED SPACE INSIDE THE BUILDING. SUGGESTED LOCATION IS SURFACE MOUNTED DIRECTLY ABOVE THE LOCATION OF THE CFA-T500 CONTROL PANEL.
3. THE SUNCOAST ENVIRONMENTAL CONTROLS (SEC) IS TO BE SURFACE MOUNTED, UNLESS OTHERWISE REQUESTED TO SUNCOAST.
4. PROVIDE LAMINATED LEGEND SHOWING NAMED LOCATIONS OF FANS AND IR HEATERS. MOUNT LEGEND AT PANEL.

LEGEND

SEC	SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF CONTROL PANELS)
----------	LOW VOLTAGE BY CONTRACTOR
—·—·—	LOW VOLTAGE WIRING BY SUNCOAST
———	120 VOLT BY CONTRACTOR
—·—·—	120 VOLT BY SUNCOAST

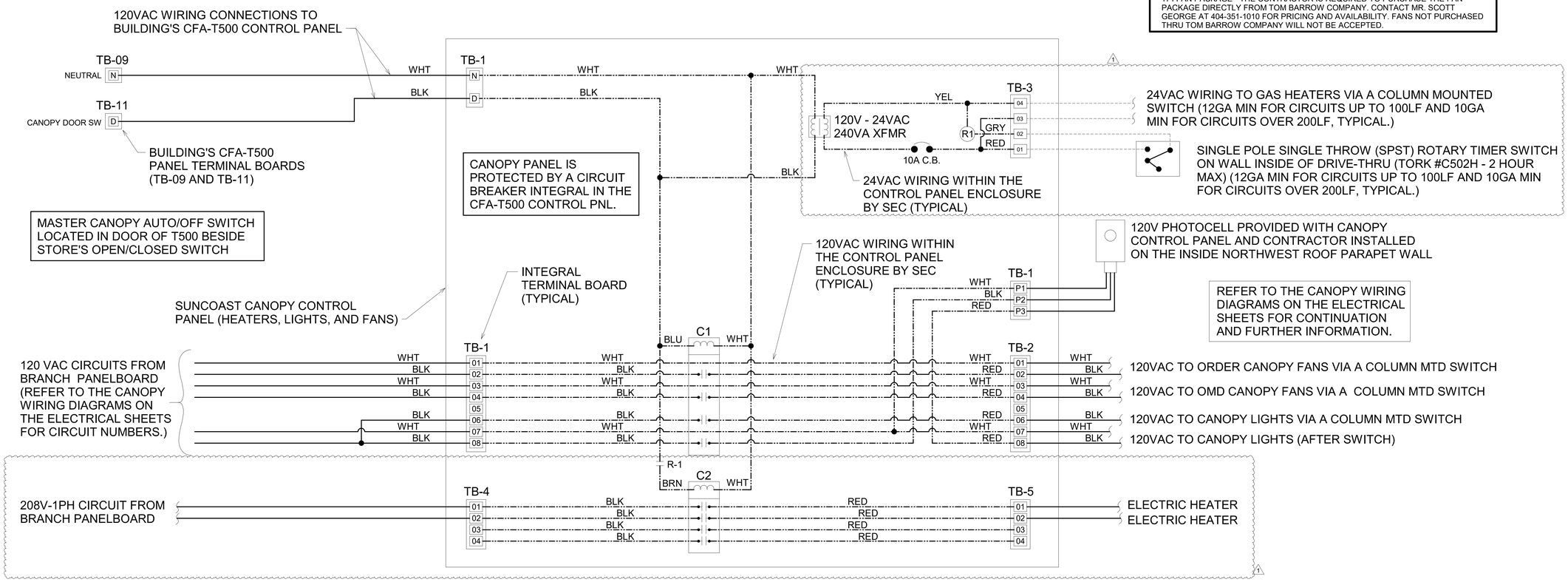
SUNCOAST RELAYS CONTACTORS SHOWN IN DE-ENERGIZED "STORE UNOCCUPIED" CONDITION. RELAYS AND CONTACTORS FACTORY INSTALLED BY SEC IN CONTROL PANEL. RELAYS AND CONTACTORS ENERGIZED VIA "STORE OPEN/CLOSED" SWITCH.

CIRCULATING FAN SCHEDULE

MARK	CFM	RPM	HP	MODEL	MANUFACTURER
CF	5,750	1,625	1/8	U18TE-HD	TPI

REMARKS
1. ALUMINUM PADDLE WITH STEEL HUB/SPIDER PROPELLER.
2. 360° ROTATING HEAD HORIZONTALLY AND VERTICALLY.
3. OSHA COMPLIANT DOUBLE LOCKING, COATED STEEL WIRE GUARD.
4. 3-SPEED, TOTALLY ENCLOSED, PERMANENTLY LUBRICATED BALL BEARING MOTOR.
5. FACTORY PRE-WIRED POWER CORD.
6. PROVIDE FACTORY WALL MOUNTING BRACKET. SEE FAN MOUNTING DETAIL ON CANOPY SHOP DRAWINGS FOR TYPICAL INSTALLATION INSTRUCTIONS.
7. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO UNDERSIDE OF CANOPY OR EXISTING OVERHANG, FACING DOWNWARD, 12" LATERALLY FROM THE FAN LOCATION.
8. REMOVE PULL CHAIN EXTENSION AT ON/OFF SWITCH IN THE FIELD.
9. FACTORY CERTIFIED FOR OUTDOOR INSTALLATION.

TPI FAN PACKAGE - THE CONTRACTOR IS REQUIRED TO PURCHASE THE FAN PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. FANS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.



A1 SUNCOAST CANOPY CONTROL PANEL WIRING DIAGRAM
NO SCALE

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STATE OF NEW JERSEY MARK T. KURZYNSKE NO. GE44646 LICENSED PROFESSIONAL ENGINEER
04/06/22

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WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
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CONSULTANT PROJECT # 22008.EH.S
DATE 01/24/2022
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SHEET NAME
CANOPY CONTROL PANEL WIRING DIAGRAM

SHEET NUMBER
E-305

4/6/2022 10:54:33 AM BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_ELE.rvt
50-LE-04591-E-305-CANOPY CONTROL PANEL WIRING DIAGRAM

Branch Panel: A

LOCATION:
SUPPLY FROM: MDP
MOUNTING: FLUSH
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
H	1	TELEPHONE DT VIDEO (190)	20 A	1	0.240	1.200					1	20 A	DRINK TOWER (315W)	2	I
	3	OFFICE GEN OUTLETS, (CO2,669)	20 A	1			0.720	1.650			1	20 A	TEA BREWER (305)	4	I
	5	OFF GEN OUTLETS, PRINTER, MUSIC	20 A	1					0.720	1.650	1	20 A	TEA BREWER (305)	6	I
H	7	GENERAL OUTLET	20 A	1	0.180	1.200					1	20 A	FUTURE/SPARE DRINK TOWER (315W)	8	H
H	9	DRINK TOWER (315W)	20 A	1			1.200	1.638			1	20 A	PANEL-POS THRU PIB	10	M
	11	GENERAL OUTLETS	20 A	1					0.410	1.200	1	20 A	DRINK TOWER (315W)	12	I
H	13	U.C. REFRIG (420L)	20 A	1	0.564	0.564					1	20 A	SINGLE REFRIGE WORK TABLE (419L)	14	I
H	15	U.C. REFRIG (420L)	20 A	1			0.564	0.240			1	20 A	SECURITY SYSTEM	16	L
I	17	U.C. REFRIG (421)	20 A	1					0.756	0.749	3	15 A	COOLER CONDENSER / EVAP COIL (449)	18	LO
I	19	U.C. REFRIG (420L)	20 A	1	0.564	0.749					--	--	--	20	
I	21	SINGLE SANDWICH SLIDE (563S)	20 A	1			0.548	0.690			--	--	--	22	
I	23	DOUBLE SANDWICH SLIDE (563D)	20 A	1					1.090	1.200	1	20 A	DRINK TOWER (315W)	24	I
	25	CARBONATOR (320)	20 A	1	0.744	1.752					3	35 A	FREEZER CONDENSER / EVAP COIL (410)	26	LO
	27	CARBONATOR (320)	20 A	1			0.744	1.908			--	--	--	28	
	29	CARBONATOR (320)	20 A	1					0.744	1.908	--	--	--	30	
	31	CARBONATOR (320)	20 A	1	0.744	0.500					1	20 A	FREEZER HEAT TAPE (410)	32	F
	33	CARBONATOR (320)	20 A	1			0.744	0.360			1	20 A	GEN OUTLET IN DTT CLOSET	34	
	35	BOOSTER PUMP	20 A	2					1.144	4.992	3	60 A	FRANKE COLD TABLE (120)	36	
	37	--	--	--	1.144	4.056					--	--	--	38	
	39	RF-1	20 A	1			0.528	4.056			--	--	--	40	
H	41	GENERAL OUTLETS	20 A	1					0.390	1.844	3	60 A	FRANKE HOT TABLE (120c)	42	
	43	GEN OUTLET DTT CLOSET	20 A	1	0.180	4.544					--	--	--	44	
	45	GEN OUTLET DTT CLOSET	20 A	1			0.180	3.060			--	--	--	46	
	47	FUTURE/RACK AC DTT CLOSET	20 A	1					1.272	4.296	3	60 A	FRANKE TOASTER TABLE (120c)	48	
	49	FUTURE/RACK AC DTT CLOSET	20 A	1	1.272	4.992					--	--	--	50	
I	51	ICE CREAM MACHINE (300X)	20 A	3			1.800	4.296			--	--	--	52	
	53	--	--	--					1.800	2.640	3	30 A	RETHERMALIZER (592)	54	I
	55	--	--	--	1.800	2.640					--	--	--	56	
I	57	ICE CREAM MACHINE (300X)	30 A	3			2.280	2.640			--	--	--	58	
	59	--	--	--					2.280	0.564	1	20 A	U.C. REFRIG (420L)	60	I
3	61	--	--	--	2.280	0.564					1	20 A	U.C. REFRIG (420L)	62	I
	63	SPARE	20 A	1			0.000	0.943			1	20 A	DOUBLE LEMONADE BUBBLER (310)	64	A
	65	SPARE	20 A	1					0.000	0.000	1	20 A	SPARE	66	
	67	SPARE	20 A	1	0.000	0.000					1	20 A	SPARE	68	
	69	SPARE	20 A	1			0.000	0.000			1	20 A	SPARE	70	
	71	SPARE	20 A	1					0.000	0.000	1	20 A	SPARE	72	
				Total Load:	32.47 kVA		30.79 kVA		31.65 kVA						
				Total Amps:	271.7 A		256.6 A		264.8 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC COOL	2544 VA	100.00%	2544 VA	
KITCHEN EQUIPMENT	71897 VA	65.00%	46733 VA	**Total Conn. Load:** 94.9 kVA
KITCHEN REFRIG EQUIPMENT	11896 VA	65.00%	7732 VA	**Total Est. Demand:** 66.2 kVA
MISCELLANEOUS	1670 VA	100.00%	1670 VA	**Total Conn.:** 263.4 A
Motor	2866 VA	119.96%	3438 VA	**Total Est. Demand:** 183.6 A
RECEPTACLES	4038 VA	100.00%	4038 VA	

Branch Panel: B

LOCATION:
SUPPLY FROM: MDP
MOUNTING: FLUSH
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
H	1	HME	20 A	1	0.180	0.120					1	20 A	MILKSHAKE DISPENSER (300a)	2	H
H	3	GENERAL OUTLET	20 A	1			0.180	0.943			1	20 A	DOUBLE LEMONADE BUBBLER (310)	4	I
H	5	ROOF RECEPTACLES	20 A	1					0.720	1.128	1	20 A	SINGLE REACH-IN FREEZER (400)	6	I
H	7	GENERAL OUTLET	20 A	1	0.540	0.180					1	20 A	GENERAL OUTLET	8	I
	9	GENERAL OUTLETS/DOORBELL	20 A	1			0.360	0.610			1	15 A	INTERIOR ICE MAKER (380,380A)	10	H
I	11	INTERIOR ICE MAKER (380B)	15 A	1					0.600	1.128	1	20 A	SINGLE REACH-IN FREEZER (400)	12	I
I	13	DOUBLE LEMONADE BUBBLER (310)	20 A	1	0.943	0.610					1	15 A	INTERIOR ICE MAKER (380,380A)	14	I
I	15	DOUBLE LEMONADE BUBBLER (310)	20 A	1			0.943	0.756			1	20 A	WORKTOP REFRIG (431)	16	I
H	17	UNHEATED AIR DOOR (AD-2)	20 A	1					0.960	1.500	1	20 A	FOOD COOKER/WARMER (565C)	18	I
LO,I	19	DRINK TOWER (315W)	20 A	1	1.200	0.500					1	20 A	D.T. DOOR	20	I
I	21	BREADING TABLE (440C)	20 A	1			0.120	1.440			1	20 A	DINING AREA OUTLETS	22	
I	23	DINING AREA OUTLETS	20 A	1					1.260	1.840	1	20 A	FRY HOLDING STATION (560)	24	I
I	25	BREADING TABLE (440C)	20 A	1	0.120	1.800					1	20 A	TRASH COMPACTOR (TC)	26	I
I	27	COFFEE MAKER (308)	30 A	2			2.000	0.180			1	20 A	LEMON JUICER STAND (607)	28	I
	29	--	--	--					2.000	0.000	1	20 A	FACP (WHEN REQUIRED)	30	L
I	31	FLY LIGHT SYSTEM (211B,C)	20 A	1	0.330	1.840					1	20 A	FRY HOLDING STATION (560)	32	H
H	33	MANANGERS STATION (GEN)	20 A	1			0.180	0.000			1	20 A	REFUSE ENCLOSURE	34	
H	35	GENERAL OUTLET	20 A	1					0.025	0.360	1	20 A	T500/SHUNT TRIP (269,270)	36	L
LO,I	37	ICE CREAM MACHINE (300X)	20 A	3	1.800	1.704					3	25 A	ROOF MOUNTED ICE MAKER (380C)	38	I
	39	--	--	--			1.800	1.704			--	--	--	40	
	41	--	--	--					1.800	1.704	--	--	--	42	
LO	43	HEATED AIR DOOR (AD-1)	45 A	3	4.068	0.540					1	20 A	DINING AREA OUTLETS	44	
	45	--	--	--			4.068	2.185			1	20 A	OPTIONAL COMPRESSOR	46	
	47	--	--	--					4.068	0.000	1	20 A	(1 OF 2 LOCATIONS)	48	
	49	ROOF MOUNTED ICE MAKER (380C)	25 A	3	1.704	0.360					1	20 A	GENERAL OUTLET	50	
	51	--	--	--			1.704	0.360			1	20 A	GENERAL OUTLET	52	
	53	--	--	--					1.704	1.800	1	20 A	TRASH COMPACTOR (TC)	54	
	55	ROOF MOUNTED ICE MAKER (380C)	25 A	3	1.704	2.280					3	30 A	ICE CREAM MACHINE (300X)	56	LO,I
	57	--	--	--			1.704	2.280			--	--	--	58	
	59	--	--	--					1.704	2.280	--	--	--	60	
I	61	SPARE/FUTURE THAWING CABINET (444)	20 A	1	1.960	1.080					1	20 A	TEAM MEMBER OUTLETS	62	3
I	63	FUTURE/BREADING TABLE (440C)	20 A	1			0.300	0.300			1	20 A	DARPRO OIL TANK	64	I
I	65	SINGLE REFRIG. (442WC)	20 A	1					0.840	0.000	1	20 A	SPARE	66	
LO	67	DRIVE-THRU EH-1	40 A	2	3.000	0.000					1	20 A	SPARE	68	
1	69	--	--	--			3.000	0.000			1	20 A	SPARE	70	
	71	SPARE	20 A	1					0.000	0.000	1	20 A	SPARE	72	
				Total Load:	28.56 kVA		27.12 kVA		27.42 kVA						
				Total Amps:	238.4 A		226.0 A		228.9 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HEAT	12204 VA	100.00%	12204 VA	
HVAC	6000 VA	100.00%	6000 VA	**Total Conn. Load:** 82.7 kVA
KITCHEN EQUIPMENT	26805 VA	65.00%	17423 VA	**Total Est. Demand:** 66.1 kVA
KITCHEN REFRIG EQUIPMENT	22451 VA	65.00%	14593 VA	**Total Conn.:** 229.7 A
LIGHTING	282 VA	125.00%	353 VA	**Total Est. Demand:** 183.5 A
MISCELLANEOUS	48 VA	100.00%	48 VA	
Motor	7545 VA	107.24%	8091 VA	
RECEPTACLES	7405 VA	100.00%	7405 VA	

3

Branch Panel: C

LOCATION:
SUPPLY FROM: MDP
MOUNTING: FLUSH
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
J	1	KITCHEN LTG	20 A	1	1.132	0.212					1	20 A	DROP CORD OUTLET	2	I
J	3	KITCHEN LTG	20 A	1			0.864	1.080			1	20 A	SALAD PREP TABLE (441)	4	I
J	5	RESTROOM LTG & EF-3	20 A	1					0.780	0.000	1	20 A	SPARE	6	
J	7	DINING AREA LTG	20 A	1	0.154	0.180					1	20 A	DROP CORD OUTLET	8	I
J	9	SERVE AREA LTG	20 A	1			0.128	1.960			1	20 A	SINGLE THAWING CABINET (444S)	10	I
J	11	DINING AREA LTG	20 A	1					1.000	0.804	1	20 A	SINGLE REFRIG (422)	12	I
	13	SPARE	20 A	1	0.000	2.880					1	30 A	HOT HOLDING CABINET (580)	14	I
J	15	WATER HEATER/PUMP	20 A	1			1.440	0.360			1	20 A	DROP CORD OUTLET	16	I
H	17	MENUBOARDS (672)	20 A	1					0.651	1.176	1	20 A	MIXER (600)	18	I
B	19	DIRECTIONAL SIGNS	20 A	1	0.500	2.633					3	30 A	SPARE/FUTURE VECTOR OVEN (505VLT)	20	I
E	21	SITE LIGHTING	20 A	2			0.344	2.633			--	--	--	22	
E	23	--	--	--					0.344	2.633	--	--	--	24	
E	25	SITE LIGHTING	20 A	2	0.258	2.633					3	30 A	VECTOR OVEN (505VLT)	26	I
E	27	--	--	--			0.258	2.633			--	--	--	28	
D	29	SECURITY/FLAGPOLE LTG	20 A	1					0.347	2.633	--	--	--	30	
C	31	BLDG EXTERIOR LTG	20 A	1	0.360	2.633					3	30 A	VECTOR OVEN (505VLT)	32	I
S,J	33	MLOP &OMD CANOPY LTG	20 A	1			1.100	2.633			--	--	--	34	
LO	35	FRZR/COOLER LTG (410/449)	20 A	1					1.500	2.633	--	--	--	36	
B	37	MAIN ID SIGN	20 A	1	0.980	2.633					3	30 A	VECTOR OVEN (505VLT)	38	I
B	39	MAIN ID SIGN	20 A	1			0.800	2.633			--	--	--	40	
B	41	MAIN ID SIGN	20 A	1					0.800	2.633	--	--	--	42	
B	43	BUILDING SIGNAGE	20 A	1	1.000	1.960					1	20 A	DOUBLE THAWING CABINET (444D)	44	I
B	45	BUILDING SIGNAGE	20 A	1			0.500	1.960			1	20 A	DOUBLE THAWING CABINET (444D)	46	I
B	47	BUILDING SIGNAGE	20 A	1					1.000	1.587	1	25 A	HOOD EXHAUST FAN (EF-1)	48	A
B	49	BUILDING SIGNAGE	20 A	1	0.500	1.587					1	25 A	HOOD EXHAUST FAN (EF-2)	50	A
S	51	DRIVE THRU ORDERING	20 A	1			0.780	1.584			1	20 A	MLOP CANOPY FANS	52	I,J,S
S,I,J	53	OMD CANOPY FANS	20 A	1					0.528	0.563	1	20 A	HOOD CJ FANS	54	A
I	55	EGG STATION (503)	20 A	2	1.300	0.392					1	20 A	DROP CORD OUTLET	56	I
	57	--	--	--			1.300	1.300			2	20 A	EGG STATION (503)	58	I
	59	SPARE	20 A	1					0.000	1.300	--	--	--	60	
	61	SPARE	20 A	1	0.000	1.300					2	20 A	SPARE/FUTURE EGG STATION (503)	62	I
	63	SPARE	20 A	1			0.000	1.300			--	--	--	64	
	65	SPACE	--	--					0.000	0.360	1	20 A	GENERAL OUTLET	66	I
	67	SPACE	--	--	0.000	0.360					1	20 A	GENERAL OUTLET	68	I
	69	SPACE	--	--			0.000	0.360			1	20 A	GENERAL OUTLET	70	I
	71	SPACE	--	--					0.000	0.960	1	20 A	U.C. FREEZER (404)	72	I
				Total Load:	25.54 kVA		27.92 kVA		24.23 kVA						
				Total Amps:	214.6 A		234.3 A		201.9 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
KITCHEN EQUIPMENT	43456 VA	65.00%	28246 VA	
KITCHEN REFRIG EQUIPMENT	8724 VA	65.00%	5671 VA	**Total Conn. Load:** 77.7 kVA
LIGHTING	15423 VA	125.00%	19279 VA	**Total Est. Demand:** 63.7 kVA
Motor	7761 VA	105.11%	8158 VA	**Total Conn.:** 215.7 A
Power	0 VA	0.00%	0 VA	**Total Est. Demand:** 176.8 A
RECEPTACLES	2340 VA	100.00%	2340 VA	

Branch Panel: D1

LOCATION:
SUPPLY FROM: MDP
MOUNTING: FLUSH
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
I	1	PRESSURE FRYER (523)	50 A	3	4.560	2.892					3	50 A	CHARGRILL COOKER (524)	2	I
	3	--	--	--			4.560	3.840			--	--	--	4	
	5	--	--	--					4.560	2.772	--	--	--	6	3
I	7	PRESSURE FRYER (523)	50 A	3	4.560	2.892					3	50 A	CHARGRILL COOKER (524)	8	I
	9	--	--	--			4.560	3.840			--	--	--	10	
	11	--	--	--					4.560	2.772	--	--	--	12	
I	13	SPARE/FUTURE FRYER (523)	50 A	3	4.560	5.880					3	60 A	DISHWASHER (363)	14	LO
	15	--	--	--			4.560	5.880			--	--	--	16	
	17	--	--	--					4.560	5.880	--	--	--	18	3
	19	SPACE	--	--	0.000	0.000					--	--	SPACE	20	
	21	SPACE	--	--			0.000	0.000			--	--	SPACE	22	
	23	SPACE	--	--					0.000	0.000	--	--	SPACE	24	
	25	SPACE	--	--	0.000	0.000					--	--	SPACE	26	
	27	SPACE	--	--			0.000	0.000			--	--	SPACE	28	
	29	SPACE	--	--					0.000	0.000	--	--	SPACE	30	
				Total Load:	25.34 kVA		27.24 kVA		25.10 kVA						
				Total Amps:	211.5 A		227.3 A		209.2 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
KITCHEN EQUIPMENT	77688 VA	65.00%	50497 VA	
				Total Conn. Load: 77.7 kVA
				Total Est. Demand: 50.5 kVA
				Total Conn.: 215.6 A
				Total Est. Demand: 140.2 A

Branch Panel: D2

LOCATION:
SUPPLY FROM: MDP
MOUNTING: FLUSH
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
SB	1	OPEN FRYER (522A)	80 A	3	7.320	4.560					3	50 A	PRESSURE FRYER (523)	2	I
	3	--	--	--			7.320	4.560			--	--	--	4	
	5	--	--	--					7.320	4.560	--	--	--	6	
SB	7	OPEN FRYER (522A)	80 A	3	7.320	4.560					3	50 A	SPARE/FUTURE FRYER (523)	8	I
	9	--	--	--			7.320	4.560			--	--	--	10	3
	11	--	--	--					7.320	4.560	--	--	--	12	
	13	SPACE	--	--	0.000	0.000					--	--	SPACE	14	
	15	SPACE	--	--			0.000	0.000			--	--	SPACE	16	
	17	SPACE	--	--					0.000	0.000	--	--	SPACE	18	
	19	SPACE	--	--	0.000	0.000					--	--	SPACE	20	
	21	SPACE	--	--			0.000	0.000			--	--	SPACE	22	
	23	SPACE	--	--					0.000	0.000	--	--	SPACE	24	
	25	SPACE	--	--	0.000	0.000					--	--	SPACE	26	
	27	SPACE	--	--			0.000	0.000			--	--	SPACE	28	
	29	SPACE	--	--					0.000	0.000	--	--	SPACE	30	
				Total Load:	23.76 kVA		23.76 kVA		23.76 kVA						
				Total Amps:	198.0 A		198.0 A		198.0 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
KITCHEN EQUIPMENT	71280 VA	80.00%	57024 VA	
				Total Conn. Load: 71.3 kVA
				Total Est. Demand: 57.0 kVA
				Total Conn.: 197.9 A
				Total Est. Demand: 158.3 A

Branch Panel: POS

LOCATION:
SUPPLY FROM: A
MOUNTING: FLUSH
ENCLOSURE: NEMA 1

VOLTS: 120/120 Single
PHASES: 1
WIRES: 3
2+G+IG
PROVIDE JUMPER FOR PHASE A & B

A.I.C. SERIES RATING: 10K
MAINS TYPE:
MAINS RATING: 100 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
H,IG	1	COUNTER STATIONS (180,182)	15 A	1	0.318	0.260			1	15 A	NETWORK CABINET	2	IG
	3	SPACE	--	--			0.000	0.000	--	--	SPACE	4	
H,IG	5	COUNTER STATIONS (180,182)	15 A	1	0.052	0.070			1	15 A	OFFICE RECEPTACLE (COMP)	6	IG
	7	SPACE	--	--			0.000	0.000	--	--	SPACE	8	
H,IG	9	DT POS STATION (180,182)	15 A	1	0.180	0.170			1	15 A	CL TABLE MONITORS (183,182L)	10	I,IG
	11	SPACE	--	--			0.000	0.000	--	--	SPACE	12	
H,IG	13	MLOP POS STATIONS (180,182L)	15 A	1	0.148	0.040			1	15 A	NETWORK CABINET	14	IG
	15	SPACE	--	--			0.000	0.000	--	--	SPACE	16	
H,IG	17	MLOP MONIOTORS (183)	15 A	1	0.150	0.050			1	15 A	ISP MODEM	18	IG
	19	SPACE	--	--			0.000	0.000	--	--	SPACE	20	
H,IG	21	PASS THRU MONITORS (183,182L)	15 A	1	0.200	0.000			--	--	SPACE	22	
	23	SPACE	--	--			0.000	0.000	1	20 A	BACKFED MAIN BREAKER	24	LO
				Total Load:	1.64 kVA		0.00 kVA						
				Total Amps:	13.7 A		0.0 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
MISCELLANEOUS	1170 VA	100.00%	1170 VA	
RECEPTACLES	468 VA	100.00%	468 VA	**Total Conn. Load:** 1.6 kVA
				Total Est. Demand: 1.6 kVA
				Total Conn.: 13.7 A
				Total Est. Demand: 13.7 A

Distribution Panel: MDP

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R

VOLTS: 120/208 Wye
PHASE... 3
WIRES: 4

A.I.C. SERIES RATING: 65K
MAINS TYPE: MCB
MAINS RATING: 1200 A
MCB RATING: 1200 A

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
	1	PANEL-A (SUB-FEEDS PANEL-POS)	250 A	3	32.47	28.56					3	250 A	PANEL B	2	
	3	--	--	--			30.79	27.12			--	--	--	4	
	5	--	--	--					31.65	27.42	--	--	--	6	
	7	PANEL-C	250 A	3	25.54	14.04					3	150 A	ROOFTOP UNIT 25 TON (AC-1)	8	
	9	--	--	--			27.92	14.04			--	--	--	10	
	11	--	--	--					24.23	14.04	--	--	--	12	
ST	13	PANEL-D1	250 A	3	25.34	23.76					3	250 A	PANEL-D2	14	ST
	15	--	--	--			27.24	23.76			--	--	--	16	
	17	--	--	--					25.10	23.76	--	--	--	18	
	19	ROOFTOP UNIT 17.5 TON (AC-2)	110 A	3	10.32	13.80					3	150 A	ROOF TOP UNIT 20 TON (AC-3)	20	
	21	--	--	--			10.32	13.80			--	--	--	22	
	23	--	--	--					10.32	13.80	--	--	--	24	3
	25	TVSS	30 A	3	0.00	23.76					3	250 A	PANEL-D3	26	ST
	27	--	--	--			0.00	23.76			--	--	--	28	
	29	--	--	--					0.00	23.76	--	--	--	30	
				Total Load:	197.6 kVA		198.7 kVA		194.1 kVA						
				Total Amps:	1651.2 A		1660.7 A		1617.4 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HEAT	12204 VA	100.00%	12204 VA	
HVAC	120480 VA	100.00%	120480 VA	**Total Conn. Load:** 590.1 kVA
HVAC COOL	2544 VA	100.00%	2544 VA	**Total Est. Demand:** 450.8 kVA
KITCHEN EQUIPMENT	362406 VA	65.00%	235564 VA	**Total Conn.:** 1637.9 A
KITCHEN REFRIG EQUIPMENT	43071 VA	65.00%	27996 VA	**Total Est. Demand:** 1251.2 A
LIGHTING	15705 VA	125.00%	19631 VA	
MISCELLANEOUS	1718 VA	100.00%	1718 VA	
Motor	18172 VA	103.15%	18744 VA	
Power	0 VA	0.00%	0 VA	
RECEPTACLES	13783 VA	86.28%	11892 VA	

LOAD SUMMARY

TOTAL CONNECTED KVA	IF TOTAL LOAD IS 0_200 KVA	IF TOTAL LOAD IS 201_325 KVA	IF TOTAL LOAD IS 326-800 KVA	IF TOTAL LOAD IS OVER 800 KVA	DIVERSIFIED AMPS AT 208 VOLT
590.07 kVA	0	0	381.78	0	1060.51

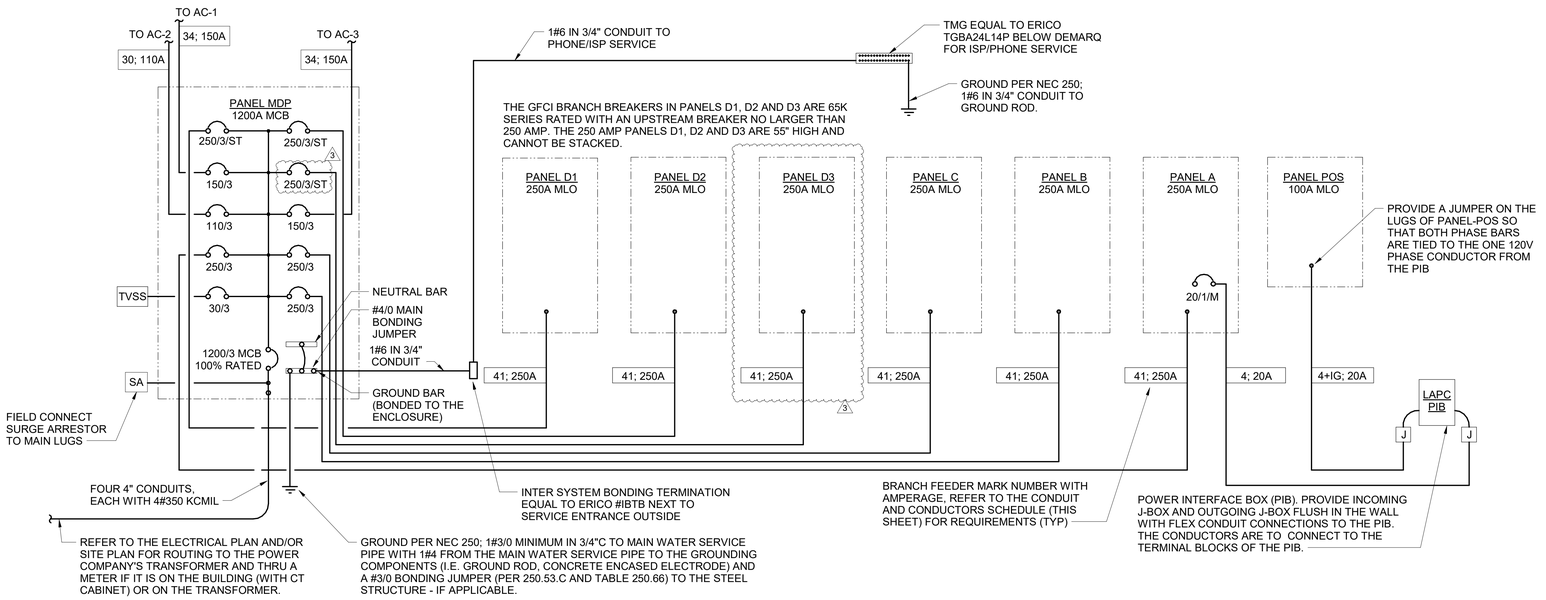
CALCULATION PER NEC 220.88

3

SEE SHEE E-502 FOR D3 PANEL SCHEDULE

PANELBOARD NOTES

- (A) CONTROLLED BY RELAY IN CONTROL PANEL CFA-T500 AND STORE-OPEN EXHAUST FAN SWITCH. PANELBOARD SUPPLIER TO PROVIDE NOTATION ON CIRCUIT THAT THE CFA-T500 ALSO HAS AN INTEGRAL BREAKER ON THE FAN CIRCUITS FOR THE DISCONNECTION OF POWER AT THE CONTROLLER PER THE NEC. SEE CFA-T500 CONTROL PANEL CONNECTION DIAGRAM ON E-001.
- (B) CONTROLLED BY EXTERIOR SIGN RELAY IN CONTROL PANEL CFA-T500.
- (C) CONTROLLED BY EXTERIOR LIGHTING RELAY IN CONTROL PANEL CFA-T500.
- (D) CONTROLLED BY EXTERIOR LIGHTING RELAY - DUSK TO DAWN ZONE.
- (E) CONTROLLED BY PARKING LOT LIGHTING CONTROL SWITCH.
- (F) GFCI TYPE BREAKER TO BE 30MA TYPE BREAKER.
- (GF) GROUND FAULT.
- (H) THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 120 VOLT, 15 AND 20



C2 SINGLE LINE DIAGRAM

NO SCALE

B1 CONDUIT AND CONDUCTORS SCHEDULE

Mark No.	OCP Device (Amp/Poles)	Conductors Total Amps 60d C	Conductors Total Amps 75d C	Conductors Phase & Neutral Qty	Size	Type	Conductors Min Eq Grd Qty/Set	Size	Raceway Size (Nominal Inches) No. Sets	Phase, Neutral & Equip Grd EMT	IMC	RIGID	PVC	With IG EMT	IMC	PVC
1	20/1	20	-	2	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
2	20/2	20	-	3	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
3	20/3	20	-	4	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
4	25/1	30	-	2	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
5	25/2	30	-	3	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
6	25/3	30	-	4	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
7	30/1	30	-	2	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
8	30/2	30	-	3	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
9	30/3	30	-	4	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
10	40/1	40	-	2	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
11	40/2	40	-	3	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
12	40/3	40	-	4	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	1.00
13	45/3	55	-	4	6	THHN	1	10	One	1.00	1.00	1.00	1.00	1.00	1.00	1.00
14	50/1	55	-	2	6	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
15	50/2	55	-	3	6	THHN	1	10	One	0.75	0.75	0.75	0.75	1.00	1.00	1.00
16	50/3	55	-	4	6	THHN	1	10	One	1.00	1.00	1.00	1.00	1.00	1.00	1.00
17	60/1	70	-	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.00	1.25
18	60/2	70	-	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25	1.25
19	60/3	70	-	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
20	70/1	70	-	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.00	1.25
21	70/2	70	-	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25	1.25
22	70/3	70	-	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
23	80/2	85	-	3	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
24	80/3	85	-	4	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
25	90/2	95	-	3	2	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
26	90/3	95	-	4	2	THW	1	8	One	1.50	1.25	1.50	1.50	1.50	1.50	1.50
27	100/2	110	-	3	1	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00	2.00
28	100/3	110	-	4	1	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
29	110/2	-	150	3	1/0	THW	1	6	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
30	110/3	-	150	4	1/0	THW	1	6	One	1.50	1.25	1.50	1.50	1.50	1.50	1.50
31	125/2	-	150	3	1/0	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00	2.00
32	125/3	-	150	4	1/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
33	150/2	-	150	3	1/0	THW	1	6	One	2.00	1.50	2.00	2.00	2.00	2.00	2.00
34	150/3	-	150	4	1/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
35	175/2	-	175	3	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
36	175/3	-	175	4	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50	2.50
37	200/2	-	200	3	3/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50	2.50
38	200/3	-	200	4	3/0	THW	1	6	One	2.50	2.50	2.50	2.50	2.50	2.50	2.50
39	225/2	-	230	3	4/0	THW	1	4	One	2.50	2.00	2.50	2.50	2.50	2.50	2.50
40	225/3	-	230	4	4/0	THW	1	4	One	2.50	2.50	2.50	2.50	2.50	3.00	3.00
41	250/3	-	255	4	250	THW	1	4	One	2.50	3.00	3.00	3.00	3.00	3.00	3.00
42A	300/3	-	285	4	300	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3.00	3.00
42B	300/3	-	310	4	350	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3..00	3.00
43A	350/3	-	335	4	400	THW	1	4	One	3.00	3.50	3.50	3.50	3.50	3.50	3.50
43B	350/3	-	380	4	500	THW	1	4	One	3.50	3.50	3.50	3.50	3.50	3.50	3.50
44A	400/3	-	380	4	500	THW	1	3	One	3.50	3.50	3.50	3.50	3.50	3.50	3.50
44B	400/3	-	400	4	3/0	THW	1	3	Two	2.50	2.50	2.50	2.50	2.50	2.50	2.50
45A	600/3	-	570	4	300	THW	1	1	Two	3.00	3.00	3.00	3.00	3.00	3.00	3.00
45B	600/3	-	620	4	350	THW	1	1	Two	3.00	3.00	3.00	3.00	3.00	3.00	3.00
46A	800/3	-	760	4	500	THW	1	1/0	Two	3.50	3.50	3.50	3.50	3.50	3.50	3.50
46B	800/3	-	820	4	600	THW	1	1/0	Two	4.00	4.00	4.00	4.00	4.00	4.00	4.00
47	1000/3	-	1005	4	400	THW	1	2/0	Three	3.50	3.50	3.50	3.50	3.50	3.50	3.50
48	1200/3	-	1240	4	350	THW	1	3/0	Four	3.50	3.50	3.50	3.50	3.50	3.50	4.00
49	1600/3	-	1675	4	400	THW	1	4/0	Five	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Notes:
Conductors are rated at 600 volt or below and are to be copper.

NEC Table 310.15(B)(16) - formerly Table 310.16 - is used for the basis of the conductor ampacities, which is not more than three current carrying conductors in a raceway at an ambient temperature of 30 deg C with 60 deg C rated conductors and connectors per 110.14-C-1 for up to 100 amp rated and up to #1 AWG conductors for equipment terminations and 75 deg C rated conductors and termination connectors for larger than 100 amp or above #1 AWG conductors.

NEC Tables 4, 5, and Appendix C is used for the basis of the conduit sizes. Table C1 for EMT, Table C4 for IMC, Table C8 for Rigid, and Table C10 for PVC (Sch 40).

All Branch Feeders and Branch Circuits shall include a green Equipment Grounding Conductor.

Omit Grounding conductor on Service Entrance Feeders.

Omit Neutral conductor on all Delta primary transformer feeders or single-phase 2 pole loads and 3 phase loads not requiring a neutral.

The above conductors are not calculated for Voltage Drop. Any circuits that exceed 100 feet shall be calculated by the Installer to have less than a three percent voltage drop on feeders and five percent on branch circuits per the NEC.

SINGLE-LINE DIAGRAM NOTES

1. VERIFY SERVICE LOCATIONS AND CONFORM TO THE REQUIREMENTS OF THE POWER COMPANY AND/OR DEVELOPER. POWER COMPANY AND/OR DEVELOPER SHALL BE CONTACTED PRIOR TO BEGINNING CONSTRUCTION TO ARRANGE AND VERIFY FOR THE INSTALLATION OF THE POWER COMPANY SERVICE, METER, AND OTHER ITEMS.
2. GROUND ALL EQUIPMENT AND SERVICES IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LOCAL APPLICABLE CODES, AND ALSO AS INDICATED ON DRAWINGS.
3. MAKE NECESSARY INSPECTIONS OF EXISTING SITE AND SERVICE LOCATIONS AS REQUIRED FOR THIS WORK AND MAKE ALLOWANCE FOR EXISTING CONDITIONS BEFORE SUBMITTING BID. VERIFY WORK REQUIRED WITH POWER COMPANY AND TELEPHONE COMPANY.
4. CUT AND PATCH THE CONSTRUCTION WORK AS REQUIRED FOR PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL MATCH THE SURROUNDING WORK TO THE SATISFACTION OF THE ARCHITECT. ALL CONDUIT SHALL BE INSTALLED CONCEALED UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT. COORDINATE SAW CUTTING WITH LANDLORD'S OR OWNER'S REPRESENTATIVE.
5. WIRE AND CABLE:
   A. CONDUCTORS SHALL BE COPPER, #12 AWG, MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE.
   B. CONDUCTOR #10 AWG AND SMALLER SHALL BE SOLID AND #8 AWG AND LARGER SHALL BE STRANDED. INSULATION SHALL BE 600 VOLT, THHN/THWN.
6. PROVIDE ENGRAVED LAMINATED PHENOLIC BLOCK-ON-WHITE (UNLESS NOTED OTHERWISE) NAMEPLATES SECURED TO EQUIPMENT WITH ADHESIVE AND SCREWS FOR PANELBOARDS, RELAY CABINETS, TRANSFORMERS, DISTRIBUTION BOARDS, AND MAIN PANELBOARD - IDENTIFYING EQUIPMENT DESIGNATION (CORRESPONDING WITH DESIGNATION USED ON DRAWINGS) AND EQUIPMENT VOLTAGE. LETTERING SHALL BE 1/4" HIGH. PROVIDE LABELS FOR CIRCUIT BREAKERS, FUSIBLE SWITCHES AND STARTERS IN PANELBOARDS AND DISTRIBUTION BOARDS FOR EACH DEVICE IDENTIFYING EQUIPMENT CONTROLLED. LETTERING SHALL BE 1/8" HIGH.
7. ALL DEVICES SHALL HAVE AN INTERRUPTING CAPACITY NOT LESS THAN THE POWER COMPANY AVAILABLE FAULT CURRENT, OR AS INDICATED ON THE DRAWINGS.
8. 120/208 VOLT BRANCH CIRCUIT PANELBOARD BREAKERS SHALL HAVE A MINIMUM U.L. SERIES RATING OF 65 KAIC WITH UP-STREAM FEEDER BREAKERS AS NOTED.
9. AVAILABLE SPACE FOR MAIN PANELBOARD IS LIMITED. PANELBOARD MUST FIT IN ALLOCATED SPACE. COORDINATE WITH CONSTRUCTION AS REQUIRED.
10. ALL WIRING SHALL BE IN CONDUIT, E.M.T OR RIGID. FLEXIBLE CONDUIT MAY ONLY BE USED FOR FINAL CONNECTIONS AND WITH GREEN EQUIPMENT GROUNDING CONDUCTORS.
11. MOUNT SINGLE CIRCUIT SURGE PROTECTION DEVICE (SQUARE D) SDSA1175T TO FACEPLATE MOUNTED ON JUNCTION BOX DIRECTLY ABOVE PANELBOARD SERVING LOAD. REF PANEL SCHEDULES FOR SURGE PROTECTION CIRCUITS.

SWITCHGEAR AND CONTROL EQUIPMENT NOTES

1. PURCHASE PANELBOARDS, SURGE ARRESTOR, AND TVSS FROM ONE OF THE TWO NATIONAL ACCOUNTS VENDORS (SEE SHEET E-902 SECTION C16440, PANELBOARDS) PROVIDING SQUARE-D EQUIPMENT. NO SUBSTITUTIONS ALLOWED.
2. PURCHASE CONTROL PANEL 'CFA-T500' FROM SUNCOAST ENVIRONMENTAL, INC. (NO SUBSTITUTIONS ALLOWED). ALL EQUIPMENT IN THE CONTROL PANEL SHALL BE INSTALLED, WIRED AND CONNECTED AT THE FACTORY, INCLUDING AUTOMATIC LIGHTING CONTROL SYSTEM, LIGHTING RELAYS, HVAC STARTERS, POWER SUPPLIES, MISCELLANEOUS RELAYS AND CONTROLS, AND THERMOSTATS.
3. CONTRACTOR SHALL PROVIDE PANEL FEEDERS A, B, C, D, AND POS, BRANCH CIRCUIT CONDUIT AND WIRE, AND INSTALL ALL EQUIPMENT AS REQUIRED.
4. ALL BREAKERS AND PANELS SHALL BE SQUARE-D.
5. TVSS AND SURGE ARRESTOR UNITS SHALL BE MOUNTED DIRECTLY ADJACENT TO THE SIDE OF THE MAIN DISTRIBUTION PANEL IN NEMA 3R ENCLOSURES. CLOSE NIPPLE THE UNITS TO THE SIDE OF THE PANEL. PROVIDE CONNECTION OF TVSS UNIT TO BREAKER IN PANEL. CONNECT SURGE ARRESTOR TO MAIN INCOMING LUGS OF THE PANEL. CONNECT USING MINIMUM LENGTH OF WIRE WITHOUT SHARP BENDS IN THE WIRE AND SHALL NOT BE LENGTHENED FROM WIRE LENGTH PROVIDED WITH THE TVSS OR SURGE SUPPRESSOR DEVICE.

3

Distribution Panel: D3

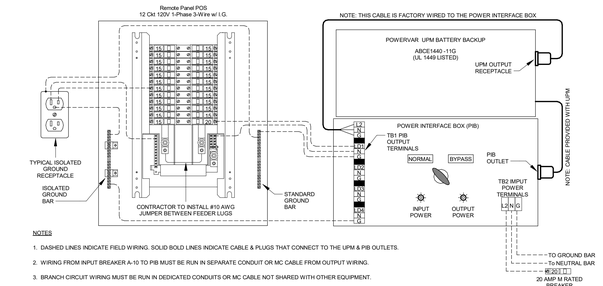
LOCATION:
SUPPLY FROM: MDP
MOUNTING: FLUSH
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASE... 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A		B		C		POLE	TRIP	LOAD DESCRIPTION	CKT	NT
SB	1	OPEN FRYER (522)	80 A	3	7.32	4.56					3	50 A	PRESSURE FRYER (523)	2	I
	3	--	--	--			7.32	4.56			--	--	--	4	
	5	--	--	--					7.32	4.56	--	--	--	6	
SB	7	OPEN FRYER (522)	80 A	3	7.32	4.56					3	50 A	PRESSURE FRYER (523)	8	I
	9	--	--	--			7.32	4.56			--	--	--	10	
	11	--	--	--					7.32	4.56	--	--	--	12	
	13	SPACE	--	--	0.00	0.00					--	--	SPACE	14	
	15	SPACE	--	--			0.00	0.00			--	--	SPACE	16	
	17	SPACE	--	--					0.00	0.00	--	--	SPACE	18	
	19	SPACE	--	--	0.00	0.00					--	--	SPACE	20	
	21	SPACE	--	--			0.00	0.00			--	--	SPACE	22	
	23	SPACE	--	--					0.00	0.00	--	--	SPACE	24	
	25	SPACE	--	--	0.00	0.00					--	--	SPACE	26	
	27	SPACE	--	--			0.00	0.00			--	--	SPACE	28	
	29	SPACE	--	--					0.00	0.00	--	--	SPACE	30	
					Total Load:		23.8 kVA		23.8 kVA						
					Total Amps:		198.0 A		198.0 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
KITCHEN EQUIPMENT	71280 VA	80.00%	57024 VA		
				Total Conn. Load:	71.3 kVA
				Total Est. Demand:	57.0 kVA
				Total Conn.:	197.9 A
				Total Est. Demand:	158.3 A



NOTES

1. DASHED LINES INDICATE FIELD WIRING. SOLID BOLD LINES INDICATE CABLE & PLUGS THAT CONNECT TO THE UPM & PIB OUTLETS.
2. WIRING FROM INPUT BREAKER A-10 TO PIB MUST BE RUN IN SEPARATE CONDUIT OR MC CABLE FROM OUTPUT WIRING.
3. BRANCH CIRCUIT WIRING MUST BE RUN IN DEDICATED CONDUITS OR MC CABLE NOT SHARED WITH OTHER EQUIPMENT.
4. ALL BRANCH CIRCUIT RECEPTACLES MUST BE ISOLATED GROUND (IG) TYPE AND ORANGE COLORED TO IDENTIFY CRITICAL CIRCUIT.
5. POWERVAR UPM BATTERY BACKUP IS MOUNTED ON TOP OF THE PIB AND CONNECTS WITH CABLE PLUGS AND OUTLETS.

A1 POS AND LAPC/PIB WIRING DIAGRAM

NO SCALE

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

Kurzynske & Associates
2705 Lebanon Pike - Suite One
Nashville, Tennessee 37214
Telephone: (615) 255-5203

MARK T. KURZYNSKE
NEW JERSEY LICENSE # GE44646
STATE OF NEW JERSEY MARK T. KURZYNSKE No. GE44646 LICENSED PROFESSIONAL ENGINEER
09/30/22

CHICK-FIL-A
WEST POND FSR

320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	07/29/2022	DESIGN NOTES

- For Construction -

CONSULTANT PROJECT # 22008.EH.S
DATE 01/24/2022
DRAWN BY BTS

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SHEET
SINGLE LINE DIAGRAM AND NOTES

SHEET NUMBER
E-502

9/30/2022 11:15:56 AM BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_ELE.rvt
50-LE-04591-E-502-SINGLE LINE DIAGRAM AND NOTES

SECTION C16100
ELECTRICAL GENERAL PROVISIONS

PART 1- GENERAL

1.01 WORK INCLUDED
A. Provide all materials, labor and equipment required to furnish and install a complete electrical system as indicated on drawings and as specified herein.

1.02 REGULATORY REQUIREMENTS
A. Equipment furnished shall be UL listed where such label is available. Installation shall conform to UL standards where applicable.

B. Electrical work shall be installed in accordance with drawings and specifications, NEC and NFPA codes in effect at project location, state and local electrical and building codes and special codes having jurisdiction over specific portions within complete installation.

C. Obtain permits and certificates of approval from all authorities having jurisdiction over the installation and pay all fees required.

1.03 SUBMITTALS
A. Submit list of materials and equipment prior to manufacture, order or installation and within twenty days after award of contract for approval. Include each item of material and equipment whether or not shop drawings are also required. List shall include name of manufacturer, catalog number and other complete identification as well as dimensions and detailed data. Submittals shall be included for the following:
1. Lighting Fixtures
2. Panelboards/Breakers
3. Wiring Devices and Device Plates
4. Enclosed Switches

B. Certified shop drawings and submittals shall bear stamp of approval of contractor as evidence that drawings have been checked. Drawings submitted without this stamp of approval will not be considered and will be returned for proper resubmission.

C. If submittals show variances or substitutions from requirements of contract, contractor shall make specific mention of such variation in his letter of transmittal in order that, if acceptable, suitable action may be taken for proper adjustment. Otherwise contractor shall not be relieved of responsibility for executing work in accordance with contract even though such submittals have been approved.

1.04 SITE VISIT
A. Visit job site prior to bid date to determine actual conditions under which work shall be done, to familiarize oneself with project and to verify total scope of work required. Failure to do so shall not constitute a reason for an extra charge.

SECTION C16101
BASIC MATERIALS AND METHODS

PART 1 - GENERAL

1.01 COORDINATION
A. Obtain and review shop drawings, product data, and manufacturer's instructions for equipment furnished under other sections to determine connection locations and requirements.

B. Sequence rough-in of electrical connections to coordinate with installation and start-up of equipment furnished under other sections.

PART 2 - PRODUCTS

2.01 SUBSTITUTIONS
A. Where specifications list one or more manufacturers and do not include "or approved equal", furnish materials made by one of manufacturers listed. Where "or approved equal" is included, contractor may substitute equal products by another manufacturer subject to approval by engineer and owner.

PART 3 - EXECUTION

3.01 INSTALLATION
A. Make electrical connections to utilization equipment in accordance with equipment manufacturer's instructions.

B. Drawings are diagramatic and shall not be scaled for exact sizes or locations, they are not intended to disclose absolute or unconditional knowledge of actual field conditions.

C. Protect work and materials from damage by weather, entrance of water and dirt. Cap conduit during installation. Avoid damage to materials and equipment in place.

D. Satisfactorily repair or remove and replace damaged work with new materials. Deliver equipment and materials to job site in original, unopened, labeled containers. Store ferrous materials to prevent rusting. Store finished materials and equipment to prevent staining and discoloring.

E. Trenches shall be excavated 6" below elevation of bottom of conduit.

F. Failure to route conduit through building without interfering with other equipment and construction shall not constitute a reason for an extra charge. Equipment, conduit and fixtures shall fit into available spaces in building and shall not be introduced into building at such times and manner as to cause damage to structure. Equipment requiring service shall be readily accessible.

3.02 TESTING AND EQUIPMENT SERVICING
A. Make test to ensure that entire system is in proper operating condition, and that adjustments and apparatus setting of circuit breakers, fuses, control equipment and apparatus have been made. Correct defects discovered during tests.

3.03 REMOVAL OF DEBRIS
A. Remove surplus materials and debris caused by, or incidental to, electrical work. Remove such debris at frequent intervals. Keep job clean during construction.

3.04 IDENTIFICATION OF EQUIPMENT
A. Identify electrical distribution equipment, disconnects, and contactors with black laminated plastic name-plates, attached with two screws, engraved with 1/4" high, white letters.

3.05 TEMPORARY LIGHTING AND POWER IN AREAS OF CONSTRUCTION
A. Provide, maintain and remove after construction is completed, temporary lighting adequate for workman safety and temporary power for all trades including any 3 phase power required.

B. Provide and maintain barricade lighting where required to adequately protect owner against liability for damage to public or personnel. All lamps used in barricade shall be 60 watt red, installed in weatherproof socket with wire guard. All wiring shall be approved for weatherproof installation.

3.06 GUARANTEE-WARRANTY
A. Guarantee work to be free from defects of materials and workmanship for a period of one year from date of final acceptance of building. Repair and replace defective work and other work damaged thereby which becomes defective during term of guarantee-warranty. Furnish owner with three written copies of guarantee-warranty.

SECTION C16120
RACEWAYS AND CONDUIT SYSTEMS

PART 1 - PRODUCTS

1.01 ACCEPTABLE MANUFACTURERS
A. Rigid IMC, and EMT conduit shall be hot-dipped, galvanized, or electro-galvanized steel by Allied, Republic, Triangle, Wheatland, or approved equal.

B. PVC conduit shall be Carlon, schedule 40, 90 degrees C. rated, unless otherwise noted.

C. MC cable shall be manufactured by AFC Cable Systems or approved equal. Type "AC-90" is not allowed. All MC Cables shall have a green equipment ground conductor and an additional isolated ground (green + yellow stripe) conductor for isolated ground circuits (POS system). Fittings used for connecting MC cable to boxes, cabinets, or other equipment shall be listed and identified for such use.

D. Associated couplings, connectors and fittings shall be steel as manufactured by Raco or equivalent. Catalog numbers used below are those of Raco.

E. Erickson Couplings, Series 1502, shall be used where neither length of conduit can be rotated.

F. Insulated bushings shall be series 1402.

G. EMT box connectors shall be compression or set-screw fittings.

H. Conduit, connectors, couplings and fittings shall be UL listed and labeled.

1.02 ELECTRICAL METALLIC TUBING (EMT)
A. Use Electrical Metallic Tubing (EMT) where drawings call for conduit to be:
1. Concealed in walls.
2. Installed above suspended ceilings.
3. Installed exposed, above 6 feet.
4. Installed for panelboard feeders above slab.

1.03 INTERMEDIATE METAL CONDUIT (IMC)
A. Use Intermediate Metal Conduit (IMC) where drawings call for conduit to be:
1. Installed for panelboard feeders ran below ground.
2. Installed in wet locations (interior and exterior).
3. Installed exposed below 6 feet.

1.04 POLYVINYL CHLORIDE (PVC) RACEWAY
A. Use PVC raceway for:
1. Underground service entrance conduits for telephone and power.
2. Exterior branch circuits installed underground.
3. Interior branch circuit conduits installed in or under concrete slab on ground floor.

1.05 RIGID STEEL CONDUIT (RSC)
A. Use Rigid Steel Conduit for:
1. Install underground for power Service Entrance elbows penetrating floor slab.
2. Exposed to physical damage.

1.06 FLEXIBLE METAL CONDUIT
A. Provide flexible metal conduit for termination at equipment subject to motion and vibration.

B. Length shall not exceed 6 feet in accessible ceiling areas.

C. Shall not be concealed in walls.

D. Where exposed to continuous or intermittent moisture, conduit shall be UL Type EF liquidtight or type as indicated.

E. For connection to ceiling mounted lighting fixtures from outlet boxes.

1.07 MC (METAL-CLAD) CABLE
A. MC Cable shall be UL listed per standard 1569, color coded copper conductors (type THHN), the sheathing shall be constructed of interlocking galvanized steel, and shall conform to the requirements of Article 330 of the National Electrical Code.

B. MC Cable with an isolated grounding conductor shall be used, concealed above ceiling and in walls, for the connection of the Point Of Sales (POS) system equipment from the isolated ground receptacles to the panelboard serving the POS loads when allowed by local codes and Article 330 of the National Electrical Code.

C. MC Cable may be used when allowed by local codes and Article 330 of the National Electrical Code for branch circuits (except the main homerun to the panelboard which shall be conduit with conductors) for the following:
1. Lighting
2. Dining area receptacles
3. Fly Lights
4. Building mounted signage
5. Office area receptacles

D. MC Cable shall not be used for branch circuits serving Kitchen Equipment Items and similar circuits in the Kitchen, the Drive- Thru area, and the Serving area's back counter.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Minimum size of conduits shall be 1/2 inch.

B. Run concealed conduits in direct line with long sweep bends or offsets. Run exposed conduits parallel to and at right angles to building lines. Group multiple conduit runs in banks.

C. Cap ends of conduits to prevent entrance of water and other foreign material during construction.

D. Provide No. 12 AWG copper pull wires or nylon cord in all empty conduits. Steel wire not acceptable as pull wire.

E. Where IMC enters a cabinet, junction box, or pull box conductors shall be protected by an insulated bushing. Locknuts shall be installed on conduit outside and inside enclosure.

F. In areas where enclosed and gasketed fixtures and weatherproof devices are specified, where Rigid Conduit enters a sheet metal enclosure, junction box and outlet box, and not terminated in a threaded hub, a steel, or malleable iron nylon insulated hub, complete with recessed sealing "O"ring or sealing locknut shall be used.

G. Provide seal-off fitting in all conduits entering a cold temperature area such as freezers and dry refrigerators.

H. In concrete slabs, block up conduit from forms and securely fasten in place. all conduits in slabs shall have a minimum of 4" inches concrete coverage above.

I. Failure to route conduit through building without interfering with other equipment, and construction shall not constitute a reason for an extra charge. Equipment, conduit, and fixtures shall fit into available spaces in building and shall not be introduced into building at such times and manner as to cause damage to structure or equipment. Equipment requiring servicing shall be readily accessible.

2.02 EMT (ELECTRICAL METALLIC TUBING) RACEWAY
A. Do not use Electrical Metallic Tubing in cinder concrete or cinder fill or where conduit system is in contact with dissimilar metals or in wet locations.

2.03 PVC RACEWAY
A Use threaded fittings for all connectors and adapters.

B. Provide 1/4-inch nylon pull rope in all primary power and incoming telephone service entrance conduits.

C. PVC conduit shall convert to galvanized rigid metal per detail on drawings.

2.04 FLEXIBLE METAL CONDUIT
A. Where fittings for liquid tight flexible conduit are brought into an enclosure with a knock-out, a gasket assembly, consisting of one piece "O" ring, with Buna-N sealing material, series 3400, shall be installed on outside of box. Fittings shall be made of either steel or malleable iron only, and shall have insulated throats or insulated bushings.

B. In dry locations, where final connections to motors and other equipment may be made with Flexible Metal Conduit, fittings shall be of steel or malleable iron only with insulated throats or insulated bushings, and shall be of wedge and screw type having an angular wedge fitting between convolutions of conduit.

2.05 MC CABLE
A. MC Cable may be used for branch circuits as noted in Part 1 above and where the local code allows use of MC Cable. The installation shall conform to Article 330 of the National Electrical Code and shall be concealed in walls and above ceilings. (Exposed MC Cable will not be acceptable.)

B. MC Cables shall be secured and supported by the building structure per the National Electrical Code and any local code requirements. MC Cable shall not lay on ceilings.

SECTION C16121
CONDUCTORS

PART 1 - PRODUCTS

1.01 CONDUCTORS
A. Provide 98% conductivity copper conductors with 600-volt insulation. For conductors No. 12 AWG and No. 10 AWG, provide solid type. For all conductors No. 8 AWG and larger, provide stranded type. All conductors shall have THHN/THWN insulation unless noted otherwise.

B. Conductors shall be manufactured by Triangle, American, Rome, Southwire or approved equal.

C. Provide No. 14 AWG type THHN fixture conductors, for conductors entering lighting fixtures.

D. Branch circuit conductors shall be minimum #12 AWG, copper.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Install pull boxes in circuits or feeders over 100 feet long.

B. Make all splices or connections only at outlet, pull or junction boxes.

C. All conductors and connections shall test free of grounds, shorts, and opens prior to energizing circuit.

D. Provide No. 10 wire in lieu of No. 12 wire for any branch circuit in excess of 100 feet linear length to prevent excessive voltage drop.

E. Use Ideal wing nuts, Scotchlok Type Y, R, G, or B, or approved equivalent connectors for fixture connections at outlet boxes.

F. Make feeder taps and joints with OZ Type T, PT, PM or PTS, or approved equivalent clamp connectors as manufactured by Kupler, or with approved compression sleeves. Wrap connectors with No. 10 Electro-Seal or approved equivalent plastic filler and vinyl tape.

G. Leave a minimum of 8" slack wire in every outlet box.

H. Provide color coded wire and with a different color for each phase and neutral and ground as follows: Phase A, B, C: Black, Red and Blue respectively; Neutral: White; Isolated Ground: Green with Yellow Stripes. Approved color tape is acceptable for feeders using larger than #6 conductors.

I. All conductors shall be continuous from origin to panel or equipment termination without splices where possible. Where splices and taps are necessary or are required, they shall be made in splice boxes with suitable connectors.

J. Tighten all electrical connectors and terminals, including screws and bolts, in accordance with manufacturer's published torque tightening values. Where manufacturer's torquing requirements are not indicated,tighten connectors and terminals to comply with tightening torques specified in UL486A and UL486B.

SECTION C16122
OUTLET AND JUNCTION BOXES

PART 1 - GENERAL

1.01 PROJECT CONDITIONS
A. Verify field measurements are as shown on drawings.

B. Verify locations of floor boxes and outlets in work areas prior to rough-in.

PART 2 - PRODUCTS

2.01 OUTLET BOXES

A. Sheet metal outlet boxes: galvanized steel.

B. Cast boxes: type FS, cast feralloy. Provide gasketed cover by box manufacturer.

C. Manufacturers: National, Appleton, General Electric, RACO, or Steel City.

D. Provide boxes for fixtures with fixture studs in center.

E. Outlet boxes for lighting, switches and receptacles in interior areas with exposed conduit shall be pressed steel and in exterior areas with exposed conduit shall be cast metal with threaded hubs, "FS" type. Use galvanized steel for concealed boxes. Boxes shall be 1-1/2" deep minimum.

2.02 PULL AND JUNCTION BOXES
A. Sheet metal boxes: galvanized steel.

B. Surface-mounted cast metal box: type 4; flat-flanged, surface-mounted junction box.
1. Material: galvanized cast iron.
2. Cover: furnish with ground flange, neoprene gasket, and stainless steel cover screws.

C. In-ground cast metal box: inside flanged, recessed cover box for flush mounting.
1. Material: galvanized cast iron.
2. Cover: nonskid cover with neoprene gasket and stainless steel cover screws.
3. Cover legend: electric.

D. Manufacturers: National, Appleton, General Electric, RACO, Oz-Gedney or Steel City.

PART 3 - EXECUTION

3.01 INSTALLATION
A. Install electrical boxes as shown on drawings, and as required for splices, taps, wire pulling, equipment connections and compliance with regulatory requirements.

B. Install pull boxes and junction boxes above accessible ceilings.

C. Inaccessible ceiling areas: Install outlet and junction boxes no more than 6 inches from ceiling access panel or from removable recessed light fixture.

D. Use flush mounting outlet boxes in finished areas.

E. Use stamped steel bridges to fasten flush mounting outlet box between studs.

F. Install flush mounted box without damaging wall insulation or reducing its effectiveness.

G. Use adjustable steel channel fasteners for hung ceiling outlet box.

H. Do not fasten boxes to ceiling support wires.

I. Support boxes independently of conduit, except cast box that is connected to two Rigid Metal Conduits both supported within 12 inches of box.

J. Use gang box where more than one device is mounted together. Do not use sectional box.

K. Use gang box with plaster ring for single device outlets.

L. Use cast outlet box in exterior locations and wet locations.

3.02 OUTLET BOXES
A. Select boxes according to intended use and type of outlet. Ceiling outlet boxes shall be 4" octagon and 1-1/2" deep. Use 2-1/8" deep octagon boxes or 4" square boxes required. All ceiling outlet boxes shall have a fixture stud of no bolt self-locking type installed if required to hang the fixture specified at the outlet.

3.03 JUNCTION BOXES
A. Junction boxes shall be sized according to number of conductors in box or type of service to be provided. Minimum junction box size 4-11/16" square and 2-1/8" deep. Provide screw covers for junction boxes.

B. Use code gauge steel with screw covers for pull boxes with prime coat and provide with screw cover. Size pull boxes according to the NEC.

C. Provide pull box every 100 feet of conduit run or where excessive number of bends necessitates a box for ease of wire installation.

SECTION C16123
GROUNDING AND BONDING

PART 1 - PRODUCTS

1.01 ROD ELECTRODES
A. Material: copper-clad steel.

B. Diameter: 3/4 inch.

C. Length: 10 feet.

1.02 MECHANICAL CONNECTORS
A. Material: bronze.

1.03 GROUNDING CONDUCTOR (WIRE)
A. Material: stranded copper, sized to meet NFPA 70, Article 250 requirements.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Install rod electrodes at locations indicated. Install additional rod electrodes as required to achieve resistance to ground of less than 25 ohms.

B. Provide grounding electrode conductor and connect to reinforcing steel in foundation footing.

C. Provide bonding to meet regulatory requirements.

D. Bond together each metallic raceway, pipe, duct and other metal objects.

E. Provide isolated grounding conductor for circuits supplying all isolated ground outlets. Insulation shall be green with yellow stripe. Size per NEC Table 250.66. This isolated grounding conductor shall run in addition to equipment grounding conductor and along with the branch circuit conductors.

2.02 GROUNDING
A. Ground electrical system in accordance with NEC Article 250 and local authorities having jurisdiction.

B. Install a #3/0 bare copper wire bond across the water meter attached to ground clamps on water line on each side of meter. Arrangements shall be made to do this work at the time the water meter is installed.

C. From the point of entrance of the water main into the building and on the meter side of the main inside water valve and union install a stranded copper cable #3/0 in 1-1/4" conduit to the main distribution panel. Connect the cable to the equipment ground bus.

D. Install a green equipment grounding conductor in each raceway, sized per NEC Table 250-122. Terminate on equipment ground bus within panelboard serving load.

E. Install #6 awg copper grounding conductor from ground bar in main telephone box to inter system bonding termination to grounded neutral bus in main distribution panel.

F. All separate grounding electrode conductors shall be bonded together to limit potential differences between them and between their associated wiring systems. This includes the power system, telephone system, etc.

2.03 FIELD QUALITY CONTROL
A. Inspect grounding and bonding system conductors and connections for tightness and proper installation.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

Kurzynske & Associates
2705 Lebanon Pike - Suite One
Nashville, Tennessee 37214
Telephone: (615) 255-5203

MARK T. KURZYNSKE
NEW JERSEY LICENSE # GE44646
STATE OF NEW JERSEY MARK T. KURZYNSKE NO. GE44646 LICENSED PROFESSIONAL ENGINEER
01/24/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 22008.EH.S
DATE 01/24/2022
DRAWN BY BTS

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SHEET
ELECTRICAL SPECIFICATIONS

SHEET NUMBER
E-901

1/24/2022 6:24:03 PM BIM 360://NJ_04591_West Pond_2020.11_FSR(04591_West Pond_ELE.rvt
50-LE-04591-E-901-ELECTRICAL SPECIFICATIONS

SECTION C16124
SUPPORTING DEVICES AND HANGERS

PART 1 - PRODUCTS

1.01 ACCEPTABLE MANUFACTURERS
A. Supporting devices and hangers shall be manufactured by RACO Fasteners, or approved equivalent.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Secure conduits to within 3' of each outlet box, junction box, cabinet, fitting, etc., and at intervals not to exceed ten feet (10') and in accordance with the National Electric Code. In seismic zones, support conduits 1" and under at 6' intervals.

B. Install clamps secured to structure for feeder and other conduits routed against the structure. Use drop rods and hangers or racks to support conduits run apart from the structure.

C. Provide and install suitable angle iron, channel iron or steel metal framing with accessories to support or brace electrical equipment including safety switches, fixtures, panelboards, etc.

D. Use of chains, perforated iron, baling wire, or tie wire for supporting conduit runs is not permitted.

E. For support of low voltage wiring not required to be in conduit, bundle cables together in a neat manner using approved nylon tie wraps. Bundled cables shall be supported with "J" hooks on telephone type bridle rings, a minimum of 6 feet on centers. Clearly identify all differing types of cables being run and tag with tape tags regarding telephone, POS System, music / communication, security, etc. for various system utilizing said cable. Identification tape shall be provided at minimum intervals of 25 feet on center and within each building space.

F. Provide a system of supporting devices and hangers to insure secure support or bracing for conduit, electrical equipment, including safety switches, fixtures, panelboards, outlet boxes, junction boxes, cabinets, etc.

SECTION C16140
WIRING DEVICES AND PLATES

PART 1 - PRODUCTS

1.01 WALL SWITCHES
A. Ratings: 20 amps, 120/277 volts a.c. or as identified on drawings.

B. Devices: (Cooper/Arrow Hart catalog numbers are listed unless notedotherwise):
1. Single pole toggle switches: 20 AMP device - #AH1221-GY (Kitchen) or #AH1221-B (Dining) 20 AMP Pilot lights illuminated with load on - #AH1221-PL

2. Double pole toggle switches: 20 AMP device - #AH1222-GY (Kitchen) or #AH1222-B (Dining)

3. Three-way toggle switches: 20 AMP device - #AH1223-GY (Kitchen) or #AH1223-B (Dining)

1.02 RECEPTACLES
A. Devices: (Cooper/Arrow Hart catalog numbers are listed unless otherwise noted):
1. Specification grade devices to be 20 amp, 125 volts, a.c. receptacles:
a. Single (simplex) device: #1877-GY (Kit) or #1877-B (Dining)
b. Duplex device: #CR20-GY (Kitchen) of #CR20-B (Dining)
c. Tamper resistant duplex device: #TRCR20-B or #TR7756-B (with USB charging)
d. GF (ground-fault circuit interrupter) duplex device: #VGF20-GY (Kitchen) or #VGF20-B (Dining)
e. IG (isolated ground) duplex device: #IG5362-RN (orange face)

B. Color:
1. Devices mounted in the FRP or tile shall be gray.
2. Devices mounted in wood finish shall be brown.
3. Isolated ground receptacles shall be orange.

1.03 SPECIAL DEVICES
A. Manual motor starter switch: SQ. D Class 2510, Type F, for use on motors up to 3/4 horsepower. Provide NEMA 1 enclosure in dry locations; provide NEMA 3R enclosure in wet or exterior locations.

1.04 WALL PLATES
A. Provide blank plates on all outlet boxes for future outlets, or outlets without devices. Plate style shall match device plates.

B. Provide non-metallic weatherproof covers for duplex GF receptacles located outside or in wet locations that feature 'while-in-use' cover equivalent to Arrow Hart #WIU-1.

C. Where devices installed in exposed boxes or conduit fittings; provide properly designed plates and covers equal to Arrow Hart RS-Series exposed work covers.

D. Install galvanized steel plates on outlet boxes and junction boxes in unfinished areas, above accessible ceilings, and on surface mounted boxes.

E. Color:
1. Wall plates mounted in FRP or tile shall be smooth satin stainless steel 302-ss series.
2. Wall plates mounted in wood finish shall be brown nylon plastic.
3. Isolated ground wall plates shall be orange nylon plastic with a circuit number printed in 3/16 inch black lettering on clear adhesive label adhered to plate.

PART 2 - EXECUTION

2.01 INSTALLATION

A. Mounting
1. Mount switches and receptacles at height above finished floor as indicated on plans, and legend.
2. Mount switches on strike side of door maximum 8" from door frame. Outlet box for switch shall be located clear of door frame. Coordinate with architectural plans prior to rough-in.
3. Install switches with off position down.
4. Do not use the feed thru feature for the GF Type receptacle, unless required by the plans.
5. Use jumbo sized plates for outlets installed in masonry walls.
6. Each receptacle shall be provided with a #12 green grounding jumper between the ground terminal of the receptacle and the outlet box.
7. The grounding conductor to each receptacle shall be installed such that the removal of the device will not interfere with the continuity of the ground.

B. Testing
1. Test each switch and verify proper operation with energized circuit.
2. Test each receptacle for proper polarity on energized circuit.
3. Test each GF receptacle with a GF receptacle tester and verify circuit is opened by GF device at milli-ampere ranges established by the manufacturer.

SECTION C16440
PANELBOARDS

PART 1 - PRODUCTS

1.01 MANUFACTURER (via Chick-fil-A National Accounts Program)
A. Square-D (for all Regions): from Villa Lighting, Dave Christanell (800)325-0963

1.02 PANELBOARD FEATURES
A. Panelboards shall have a minimum symmetrical interrupting rating to meet or exceed the available symmetrical interrupting fault current at the device intended to interrupt current.

B. Bus bars shall be copper.

C. Provide factory-installed copper ground bus in each panelboard with lugs or connectors on bar.

D. Provide electrically isolated, factory installed, neutral bus in each 3 phase, 4 wire or 1 phase 3 wire panelboard.

E. In addition to the ground bus required by paragraph 1.02D (above), provide factory installed, electrically isolated, copper ground bus in each panelboard serving isolated ground receptacles.

F. Main lugs and main circuit breaker lugs shall be UL Listed for use with both aluminum and copper conductors.

G. Provide panelboard doors with chrome-plated locks and catches. All locks shall be keyed alike. Provide two keys for each lock.

H. Provide thermal-magnetic circuit breakers which are rated for 40 degrees C ambient temperature. Breakers shall be quick-make, quick-break type trip with trip indication shown by handle position other than on or off. Multi-pole breakers shall have a common trip handle. Tandem type circuit breakers shall not be permitted.

I. MDP main breaker,1200 Amps or higher, shall be equipped with Arc Flash Maintenance Setting switch for use as a temporary arc-flash incident energy reduction device during maintenance activities.

J. Provide typed directory card with clear holder for each panelboard.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Panelboards shall be mounted at height above finished floor such that the height of the top-most breaker in the panel is not more than 6-1/2 feet above finished floor in its highest position per the NEC.

B. Where multiple panelboards are installed on walls in common areas of buildings, the panelboards shall be installed with the top of all panelboards at the same height.

C. Provide blank filler plates over all unused spaces in panelboards.

D. A typed directory card shall indicate devices being served and the space name where the device is located.

E. Provide minimum of one (1) 3/4" empty spare conduit for every 3 poles of spare breaker or space in the panelboard. Stub conduit to nearest accessible ceiling space. Label conduit as spare at panelboard and termination point.

F. Non-isolated ground bars shall be grounded to panelboard can and main service entrance ground bus with a code sized grounding conductor installed in the same conduit as the phase and neutral conductors.

G. Circuits using a common neutral shall be installed in accordance with the National Electrical Code.

H. Inspect each panelboard for proper installation, physical damage, tightness and installation of overcurrent devices. Verify proper color coding of conductors. Correct or repair all items found in inspection.

I. Neutral wires, ground wires, and isolated ground wires shall be connected to the appropriate panel bus bar. Do not mix bus wire connections.

SECTION C16441
ENCLOSED SWITCHES
PART 1 - PRODUCTS

1.01 MANUFACTURERS
A. Square D
B. GE / ABB
C. Siemens

1.02 ENCLOSED SWITCHES
A. Nonfusible switch assemblies: NEMA KS 1, General Duty Type for 208 volt load interrupter enclosed knife switch with externally operable handle interlocked to prevent opening front cover with switch in on position. Handle lockable in off position. Provide equipment ground lug in each switch.

B. Enclosures: NEMA KS 1.
1. Interior dry locations: Type 1.
2. Exterior locations: Type 3R.

SECTION C16442
UTILITY SERVICE ENTRANCE AND DISTRIBUTION SYSTEM

PART 1 - GENERAL

1.01 SYSTEM DESCRIPTION
A. The underground electrical system service characteristics shall be 208Y/120 volts, Three Phase, Four Wire service and shall extend from utility company transformer secondary.

B. Metering of electrical usage shall be located as required by local electrical utility company. Coordinate requirements with local utility company.

C. Distribution system originates at secondary of utility transformer and includes service entrance conduit and conductors, distribution equipment, lighting panelboards, utilization equipment, overcurrent devices, disconnecting means, controls, branch and feeder circuits, etc.

PART 2 - PRODUCTS

2.01 MATERIALS
A. Furnish service entrance conduit, cable, and miscellaneous hardware as required by plans and specifications for electrical service entrance and system grounding at main electrical service.

PART 3 - EXECUTION

3.01 EXAMINATION AND PREPARATION
A. Coordinate exact locations of electrical service utility transformer, metering equipment, service lateral, etc. prior to commencement of installation. Contact engineer with conflicts prior to bid.

B. Ensure pad mounted transformer is not located within roadway or sidewalk.

C. Coordinate with local electrical utility for all utility company requirements and provide for the following items and any others required by the utility:
1. Concrete pad for utility transformer with required dimensions and details.
2. Primary underground conduit, excavation, and backfill requirements.
3. Pay for all fees associated with establishment of electrical service.
4. Furnish list of loads to the electrical utility company serving the facility.
5. Verify that utility company clearances are provided on all sides of utility equipment.

D. Ensure proper access to utility equipment is maintained.

E. Provide pull rope, excavation in accordance with electrical utility company requirements, backfill and concrete envelope for primary in accordance with electrical utility company requirements. Turn conduits up riser pole as required. Cap spare conduits 12 inches above grade with plumbers pipe cap.

F. Provide secondary lugs on utility transformer and perform drilling and installation of lugs in accordance with utility requirements. Type of lugs shall be in accordance with electrical utility company requirements. Connect service conductor to transformer secondary lugs as directed by electrical utility.

SECTION C16500
LIGHTING FIXTURES (LUMINAIRES)

PART 1 - GENERAL

1.01 ACCEPTABLE MANUFACTURERS AND VENDORS
A. Lighting fixtures indicated on lighting fixture schedule are to be purchased from the National Account Vendor for the region of the project (verify region designation with Owner's Representative):

1. Villa Lighting - all regions. Contact at Villa Lighting: Dave Christanell at 800-325-0963, fax- 314-531-8720, email - davec@villalighting.com

B. Ballasts to be electronic ballast provided with lighting fixture by the manufacturer.

C. Lamps to be Osram-Sylvania and will typically be provided with the luminaire by the lighting manufacturer.

1.02 FIXTURE REQUIREMENTS
A. Provide regulating, HPF ballasts in all HID lighting fixtures. HID lamp types shall be as indicated on the drawings.

B. Recessed fluorescent lighting fixture ballasts shall be provided with integral thermal protection.

C. Provide energy-saving Instant or Rapid Start lamps for all fluorescent fixtures.

D. All lamps and ballasts shall meet or exceed the requirements of the National Energy Policy Act of 1992 and any other applicable Codes or Criteria.

E. All components of recessed fixtures shall be accessible without disturbing fixture in or on ceiling.

F. Energy saving ballasts and energy saving lamps provided shall be compatable for operation together.

G. Exterior fixtures and poles shall be suitable for exterior use, shall be UL Listed, and shall be a standard design for exterior application.

H. Exterior poles for fixtures with luminaires installed shall be designed for maximum constant velocity wind load with luminaires installed, applicable to the geographic area.

1.03 CONTROLS
A. Lighting contactors shall be Square-D, GE / ABB, Cutler-Hammer or Siemens of types and quantity shown on drawings, except those furnished with the switchgear as part of the National Account Program by Suncoast Environmental Controls (SEC).

1.04 EMERGENCY LIGHTING UNITS
A. Batteries shall supply emergency power for lighting with minimum operating time of 1-1/2 hours.

B. Emergency lighting shall be automatically operational upon normal utility power failure.

PART 3 - EXECUTION

3.01 INSTALLATION
A. Lighting fixtures shall be structurally supported. Fluorescent fixtures mounted in suspended ceilings shall be supported by and attached to ceiling system as required by NEC Article 410. In addition, fluorescent troffers shall be supported at two opposite corners to building structure.

B. Recessed fixtures in dropped ceiling areas shall be connected to power source using flexible conduit. Flexible conduit shall contain a separate insulated green No. 12 copper ground wire. Flexible conduit shall be connected to junction box and fixture. Green ground wire shall provide ground continuity between conduit system and fixture. Grounding conductors shall be permanently and mechanically connected between fixture and conduit system so as to be electrically continuous.

C. Fixtures surface mounted on exposed tee bar ceilings shall use grip clamps on tee bars to support fixtures.

D. Wire shall be continuous from splice in outlet box of building wiring system to lamp socket or ballast terminals.

E. Maintain the integrity of enclosures on enclosed and gasketed fixtures. Minimize the number of enclosure penetrations and make such penetrations water and dust tight with appropriate gaskets and fittings.

F. Concrete bases shall be provided for all exterior ground mounted or pole mounted fixtures.

G. Install accessories furnished with each fixture.

H. Wiring from pole bases to pole mounted luminaire shall be No. 12 with fuse protection provided by a 30 amp, 600 volt waterproof fuseholder with Bussman 'Limitron' fuse of ampere rating 3 times the load current.

I. Surface and recessed fixtures on or in plastered or drywall ceilings shall be supported by support channels. Support channels shall span across main support channels and shall not depend upon ceilings for support.

3.02 FIELD QUALITY CONTROL
A. Relamp fixtures that have failed lamps at substantial completion.

SECTION C16596
SPECIAL SYSTEMS

PART 1 - GENERAL

1.01 WORK INCLUDED
A. Furnish and install raceway system for music / communications security, CCTV, POS, and other owner-furnished systems, consisting of empty conduits, junction boxes, outlet boxes, and device plates, etc., as specified and shown on owner selected vendor wiring schematics. Cable, equipment, and installation of the interior system will be provided by the owner's system vendor.

B. Interior system equipment will be furnished by Owner's Vendor.

C. Install special backboxes furnished by Owner's Vendor. Coordinate with the Vendor for the installation. Coordinate with the Vendor if backboxes are to be contractor provided in order to provide and install the appropriate item for the Vendor.

PART 2 - PRODUCTS

2.01 MATERIALS
A. Provide 4-11/16" square boxes, with plaster rings. Provide device plates for system outlets as specified in Section 16141. Provide separate conduit to nearest accessible ceiling space from each outlet.

B. Cable shall be in conduit where installed in walls or inaccessible ceilings.

C. Minimum conduit size shall be 3/4" .

PART 3 - EXECUTION

3.01 INSTALLATION
A. Furnish and install conduits, junction boxes, outlet boxes, and plates.

B. Provide one #10 equivalent nylon pull wire in each system empty conduit.

C. Provide a complete raceway system in accordance with interior system vendor requirements. Interior system vendor shall review the drawings. Contractor shall provide for any additional or varying requirements.

D. Final connections and testing of systems will be provided by the system vendor. Contractor shall contact the owner's vendor and schedule the work so as to complete system installation and testing prior to occupancy of the facility.

E. Terminate each conduit stub-up or termination with nylon insulated bushing.

SECTION C16597
TELEPHONE SERVICE

PART 1 - GENERAL

1.01 WORK INCLUDED
A. Furnish and install telephone system consisting of empty conduits, junction boxes, outlet boxes, device plates, etc., as specified and shown on owner selected vendor wiring schematics. Cable, equipment, and installation of the interior system will be provided by the owner's system vendor.

B. Provide underground PVC, Schedule 40, service conduit as required by plans.

C. Telephone Utility Company will provide service entrance cable.

D. Interior telephone system will be furnished by owner's vendor.

E. Special backboxes (unless otherwise noted) and faceplates will be furnished by the owner's vendor.

PART 2 - PRODUCTS

2.01 MATERIALS
A. Provide 4-11/16" square boxes, with plaster rings. Provide device plates for telephone outlets to match those specified in wiring device section. Provide separate conduit to nearest accessible ceiling space from each outlet.

B. Minimum conduit size shall be 3/4".

C. Provide lightning arrester for telephone service entrance at main telephone backboard in accordance with UL96A paragraph 11.2 and NFPA 780.

D. Cable shall be in conduit where installed in walls or above inaccessible ceiling spaces.

PART 3 - EXECUTION

3.01 INSTALLATION
A. Provide one #10 equivalent nylon pull wire in each empty telephone conduit.

B. Provide trenching, backfilling, etc., for installation of service entrance conduit in accordance with other divisions, plans, and telephone utility requirements. Provide pull wire in empty conduit.

C. Coordinate with the local utility for point of service and type of service required. Pay for any utility company charges and fees for establishment of service.

D. Provide a complete raceway system in accordance with telephone utility company and interior system vendor/utility requirements. Telephone utility company and interior system vendor shall review the drawings. Contractor shall provide for any additional or varying requirements.

E. Terminate each conduit stub-up or termination with nylon insulated bushings.

F. Final connections and testing of system will be provided by the system vendor. Contractor shall contact the owner and vendor and schedule the work.

CLOSE OUT DOCUMENT REQUIREMENTS

Provide the following to the building owner upon completion of construction:

1. Submittal data stating equipment rating and selected options for each piece of equipment requiring maintenance.
2. Operation manuals and maintenance manuals for each piece of equipment requiring maintenance. Required routine maintenance actions shall be clearly identified.
3. Names and addresses of at least one qualified service agency.
4. A complete narrative of how each system is intended to operate.

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

Kurzynske & Associates
2705 Lebanon Pike - Suite One
Nashville, Tennessee 37214
Telephone: (615) 255-5203

MARK T. KURZYNSKE
NEW JERSEY LICENSE # GE44646
STATE OF NEW JERSEY · MARK T. KURZYNSKE · NO. GE44646 · LICENSED PROFESSIONAL ENGINEER
01/24/22

CHICK-FIL-A
WEST POND FSR
320 US 9N
WOODBRIDGE TOWNSHIP, NJ 07095

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 22008.EH.S
DATE 01/24/2022
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SHEET
ELECTRICAL SPECIFICATIONS

SHEET NUMBER
E-902

1/24/2022 6:24:03 PM BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_ELE.rvt
50-LE-04591-E-902-ELECTRICAL SPECIFICATIONS

PLUMBING NOTES

1. PLUMBING CONTRACTOR TO VERIFY ALL INCOMING SERVICES AND TO MAKE ALL EXTERNAL, INTERNAL INTERCONNECTIONS, AND FINAL CONNECTIONS TO EQUIPMENT AND PROVIDE ALL PIPING, FITTINGS, PARTS, ETC. NECESSARY TO MAKE EQUIPMENT FUNCTIONAL UNLESS SPECIFICALLY STATED OTHERWISE.
2. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL INDIVIDUAL SHUT-OFF VALVES ON ALL WATER AND GAS LINES.
3. ALL FLOOR AND WALL PENETRATIONS MUST BE SEALED WATER-TIGHT AND VERMIN PROOF.
4. ALL PLUMBING OUTLETS AND CONNECTIONS SHOWN IN ELEVATIONS ARE FOR FOODSERVICE EQUIPMENT ITEMS ONLY. (SEE PLUMBING SHEETS FOR ADDITIONAL REQUIREMENTS AND INFORMATION).
5. ALL HORIZONTAL DIMENSIONS SHOWN ARE FROM FINISHED FACE OF WALL OR GRID LINE TO CENTERLINE OF STUB-OUT OR FROM CENTERLINE OF STUB-OUT TO CENTERLINE OF STUB-OUT UNLESS OTHERWISE NOTED ON PLANS OR DETAILS. (VERIFY ALL DIMENSIONS AT JOB SITE).
6. ALL FLOOR SINKS SHOWN ARE TO BE SET FLUSH WITH FINISHED FLOOR UNLESS LOCAL CODES DICTATE OTHERWISE.
7. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL REMOVABLE GRILLS OR COVERS FOR ALL FULLY OR PARTIALLY EXPOSED FLOOR SINKS.
8. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL DRAIN LINES FROM ALL APPLICABLE EQUIPMENT TO FLOOR SINKS (INCLUDING WALK-IN COOLER AND FREEZER COILS) AND TO INSULATE ALL DRAIN LINES FROM ICE BINS, REFRIGERATION EQUIPMENT, OR OTHER EQUIPMENT CAPABLE OF PRODUCING CONDENSATION.
9. PLUMBING CONTRACTOR IS NOT TO HARD-PIPE THE CENTERLINE TABLE.
10. ALL COMPARTMENT SINKS SHOULD HAVE INDIRECT WASTE UNLESS OTHERWISE SPECIFIED BY JURISDICTION.
11. IF INLET PRESSURE ON HOT WATER LINES IS IN EXCESS OF 25 PSI, PLUMBING CONTRACTOR TO PROVIDE AND INSTALL PRESSURE REGULATING VALVE.
12. PLUMBING CONTRACTOR TO PROVIDE PIPES AND FITTINGS FOR ALL EXPOSED CONNECTING RUNS AS REQUIRED.
13. PLUMBING CONTRACTOR TO VERIFY ALL DIMENSIONS AT JOB SITE.
14. PLUMBING CONTRACTOR TO VERIFY PLUMBING RELATED EQUIPMENT PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR ON SCHEDULE.
15. PLUMBING CONTRACTOR TO USE EXISTING SERVICES TO CONNECT NEW AND REUSED EQUIPMENT WHENEVER POSSIBLE AND TO CAP-OFF ANY EXISTING SERVICES MADE OBSOLETE BY THESE PLANS.
16. PLUMBING CONTRACTOR TO INSTALL KITCHEN EQUIPMENT CONTRACTOR SUPPLIED ITEMS SUCH AS FAUCETS & LOOSE COMPONENTS RELATED TO THE PLUMBING FIXTURES.
17. PLUMBING CONTRACTOR TO INSTALL, MOUNT, AND PLUMB ALL KITCHEN HAND SINKS AND COMPARTMENT SINKS.
18. PLUMBING CONTRACTOR TO PROVIDE STANDOFFS FOR SINKS IF REQUIRED.
19. PLUMBING ENGINEER TO DETERMINE THE NEED FOR A DOMESTIC WATER BOOSTER PUMP TO BE LOCATED PER THE KITCHEN EQUIPMENT PLANS AS REQUIRED.
20. GENERAL CONTRACTOR TO PROVIDE BLOCKING FOR ALL WALL HUNG HAND SINKS.
21. PLUMBING CONTRACTOR TO PROVIDE CONDENSER WATER PIPING CONNECTIONS TO WALK-IN COOLER / FREEZER AND ICE MACHINES.
22. WATER FILTRATION SYSTEM TO BE INSTALLED BY CHICK-FIL-A SPECIFIED VENDOR.

BUILDING WORK NOTES

1. ALL DIMENSIONS INDICATED ARE FROM FINISHED SURFACES UNLESS SPECIFICALLY STATED OTHERWISE.
2. GENERAL CONTRACTOR TO VERIFY WITH KITCHEN EQUIPMENT CONTRACTOR DELIVERY AND ACCESSIBILITY OF FOODSERVICE EQUIPMENT AND FIXTURES TO THE BUILDING.
3. GENERAL CONTRACTOR TO LAY OUT, PROVIDE, AND INSTALL ALL BACKING FOR WALL MOUNTED SHELVING AND OTHER WALL MOUNTED EQUIPMENT AS SPECIFIED IN PLANS.
4. GENERAL CONTRACTOR TO PROVIDE BLOCKING FOR ALL WALL HUNG HAND SINKS AND VANITIES.
5. ANY ATTACHMENT TO BUILDING STRUCTURE FOR LOAD BEARING WEIGHT TO BE PROVIDED BY OTHERS.
6. GENERAL CONTRACTOR TO PROVIDE UNISTRUT FOR SUSPENDED SHELVING AND SUSPENDED STAINLESS STEEL SHROUDS.
7. CONDENSING UNIT RACK TO BE PROVIDED AND INSTALLED BY OTHERS IF REQUIRED.
8. GENERAL CONTRACTOR TO HOIST ALL KITCHEN RELATED EQUIPMENT TO THE ROOF / MEZZANINE AS NEEDED.

INSTALLATION NOTES

1. GENERAL CONTRACTOR MUST INSTALL BLOCKING AS SPECIFIED ON KITCHEN AND ARCHITECTURAL SHEETS TO ENSURE PROPER BLOCKING IS IN PLACE FOR EQUIPMENT INSTALLATION.
2. SITE READINESS MUST BE COMPLETE IN PREPARATION FOR INSTALLATION BASED ON THE FOLLOWING CRITERIA:
   - A. COMPLETED PARKING LOT AND SIDEWALKS SERVING THE SITE
   - B. CLEAR ACCESS FROM THE STREET OR PARKING LOT TO EACH AREA WHERE EQUIPMENT WILL BE INSTALLED
   - C. A FULLY ENCLOSED BUILDING ENVELOPE, CREATING A WATER-TIGHT ENVIRONMENT
   - D. BROOM CLEAN CONDITIONS WITH DIRT, DUST, TRASH, AND CONSTRUCTION MATERIALS MITIGATED
   - E. NO TRADES WORKING OVERHEAD ABOVE THE EQUIPMENT
   - F. TRADE WORK SHOULD BE COMPLETE IN THE VICINITY OF THE EQUIPMENT TO MINIMIZE REPEATED SHIFTING OR MOVING OF KITCHEN EQUIPMENT
   - G. PROHIBIT USE OF THE KITCHEN EQUIPMENT BY ANY TRADE AS A WORK SURFACE, STANDING SURFACE, OR PLACE TO STORE TOOLS AND MATERIALS
   - H. PROVIDE AT A MINIMUM TEMPORARY SPACE LIGHTING SUFFICIENT TO ALLOW SAFE WORKING CONDITIONS FOR EQUIPMENT ASSEMBLY AND INSTALLATION
   - I. IF APPLICABLE, ALL SERVICE COUNTER CURBS AND FLOOR PENETRATIONS NEED TO BE COMPLETE
   - J. ALL FLOOR FINISHES AND BASE MATERIAL, INCLUDING GROUT IF APPLICABLE, MUST BE COMPLETE
   - K. ALL WALL FINISHES IN THE VICINITY OF THE EQUIPMENT MUST BE COMPLETE
   - L. ALL CEILING FINISHES, CEILING GRID, LIGHT FIXTURES, AND CEILING TILE NEED TO BE COMPLETE IN THE AREAS ABOVE THE EQUIPMENT. NOTE: IF BACK OF HOUSE SHELVING THAT IS SUSPENDED FROM OVERHEAD STRUCTURE IS USED, ONLY THE GRID IS REQUIRED – LEAVE THE CEILING TILES OUT UNTIL THE SHELVING INSTALLATION IS COMPLETE
   - M. ALL CEILING MOUNTED LIGHTING SHOULD BE IN PLACE AND COMPLETE
   - N. ALL OVERHEAD UTILITIES ABOVE THE EQUIPMENT INCLUDING FIRE SPRINKLERS, CONDUIT RUNS, SANITARY PIPING, DOMESTIC WATER LINES, CONDENSER WATER SUPPLY LINES, CONDENSER WATER RETURN LINES, HVAC DUCT, AND SIMILAR INFRASTRUCTURE SHOULD BE FINISHED
   - O. ALL HOOD SYSTEMS MUST BE IN PLACE
   - P. ALL EQUIPMENT UTILITY ROUGH-INS MUST BE COMPLETE AND READY FOR CONNECTION

KITCHEN SHEET INDEX

NO.	SHEET NAME
K-001	GENERAL NOTES
K-201	OVERALL EQUIPMENT FLOOR PLAN
K-211	ENLARGED EQUIPMENT FLOOR PLAN
K-212	ENLARGED EQUIPMENT FLOOR PLAN
K-601	ELECTRICAL ROUGH-IN ELEVATIONS
K-602	ELECTRICAL ROUGH-IN ELEVATIONS
K-603	ELECTRICAL ROUGH-IN ELEVATIONS
K-604	ELECTRICAL ROUGH-IN ELEVATIONS
K-611	PLUMBING ROUGH-IN ELEVATIONS
K-801	EQUIPMENT SCHEDULE
K-802	EQUIPMENT SCHEDULE
K-901	KITCHEN DETAILS
K-902	KITCHEN DETAILS
K-903	KITCHEN DETAILS

ELECTRICAL NOTES

1. ELECTRICAL CONTRACTOR TO VERIFY ALL INCOMING SERVICES AND FINAL HOOK-UPS TO ALL APPLICABLE EQUIPMENT AND TO PROVIDE ALL SWITCHES, BREAKERS, CONDUIT, PULL BOXES, ETC. UNLESS SPECIFICALLY STATED OTHERWISE.
2. ALL ELECTRICAL OUTLETS AND CONNECTIONS SHOWN ON THIS PLAN ARE FOR EQUIPMENT AND RELATED ITEMS SHOWN ON FOODSERVICE EQUIPMENT PLAN ONLY (SEE ELECTRICAL SHEETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS). ELECTRICAL CONTRACTOR TO VERIFY REQUIREMENTS FOR ADDITIONAL CONVENIENCE OUTLETS AND ITEMS NOT IN CONTRACT.
3. ALL HORIZONTAL DIMENSIONS SHOWN ARE FROM FINISHED FACE OF WALL OR GRID LINE TO CENTERLINE OF STUB-OUT OR FROM CENTERLINE OF STUB-OUT TO CENTERLINE OF STUB-OUT UNLESS OTHERWISE NOTED ON PLANS OR DETAILS. (VERIFY ALL DIMENSIONS AT JOB SITE)
4. ELECTRICAL CONTRACTOR TO RUN IN CONDUIT ALL LINES OR LOW VOLTAGE CONTROL WIRING FROM WALK-IN FREEZER EVAPORATOR AS DETAILED ON FOODSERVICE REFRIGERATION SYSTEM DETAILS DRAWINGS.
5. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL STAINLESS STEEL COVER PLATES FOR ALL RECEPTACLES AND SWITCHES IN FOOD PREPARATION AREAS UNLESS OTHERWISE NOTED.
6. ELECTRICAL CONTRACTOR TO PROVIDE CAPS AND CORDS FOR ALL ITEMS WHICH USE CONVENIENCE OUTLETS WHEN NOT SUPPLIED BY MANUFACTURER AND SHORTEN ANY CORDS AS REQUIRED.
7. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL CONDUIT FOR PULL-THRU OF REFRIGERATION AND BEVERAGE LINES AS SHOWN ON PLAN WITH A MINIMUM BENDING RADIUS OF 24" FOR 4" Ø CONDUIT OR A MINIMUM BENDING RADIUS OF 36" FOR 6" Ø CONDUIT OR LARGER. LONG SWEEP CONDUIT RECOMMENDED. (NO FACTORY "L'S" PERMITTED).
8. ELECTRICAL CONTRACTOR TO CONNECT ALL INDIVIDUAL COMPRESSORS AND/OR CONDENSERS. ELECTRICAL CONTRACTOR SHALL ALSO PROVIDE DISCONNECT SWITCHES AND MAGNETIC STARTERS AS REQUESTED (UNLESS THERE IS A PRE-WIRED COMPRESSOR RACK THAT INCLUDES DISCONNECT SWITCH).
9. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL WIRING FOR WALK-IN COOLERS AND FREEZERS ON THE EXTERIOR OF THE BOX WHENEVER POSSIBLE. VERIFY REQUIREMENTS WITH REFRIGERATION CONTRACTOR PRIOR TO INSTALL. WALK-IN COOLERS / FREEZERS CANNOT BE PROVIDED PRE-WIRED.
10. ELECTRICAL CONTRACTOR TO WIRE LOOSE WALK-IN LIGHT FIXTURES AS SUPPLIED BY KITCHEN EQUIPMENT CONTRACTOR. WALK-IN CONTRACTOR TO SUPPLY LAMPS FOR ALL WALK-IN COOLERS / FREEZERS.
11. ELECTRICAL CONTRACTOR SHALL USE CONDUIT SEALS ON ALL PENETRATIONS THRU WALK-IN PANELS.
12. ELECTRICAL CONTRACTOR TO SEAL AROUND CONDUIT PENETRATIONS IN WALK-IN COOLERS / FREEZER TO AVOID CONDENSATION INSIDE LIGHT FIXTURES.
13. ELECTRICAL CONTRACTOR TO VERIFY ALL DIMENSIONS AT JOB SITE.
14. ELECTRICAL CONTRACTOR TO USE EXISTING ELECTRICAL SERVICES TO CONNECT NEW AND RE-USED EQUIPMENT WHENEVER POSSIBLE AND TO CAP-OFF ANY EXISTING SERVICES MADE OBSOLETE BY THESE PLANS.
15. ELECTRICAL CONTRACTOR TO WIRE THE CENTERLINE TABLE WITH FIVE WIRES. (SEE ELECTRICAL SHEETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS)
16. ELECTRICAL CONTRACTOR TO WIRE POS REGISTERS ON SEPARATE CIRCUITS (SEE ELECTRICAL SHEETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS)

GENERAL NOTES

1. ANY DISCREPANCIES BETWEEN PLANS, BUILDING, AND LOCAL CODE REQUIREMENTS THAT MAY AFFECT THE INSTALLATION OR OVERALL FABRICATION WORK IN ANY WAY SHALL BE BROUGHT TO THE ATTENTION OF THE KITCHEN EQUIPMENT CONTRACTOR IMMEDIATELY BY THE GENERAL CONTRACTOR.
2. GENERAL CONTRACTOR TO PROVIDE ALL PENETRATIONS BETWEEN FLOORS AND / OR CEILINGS FOR GAS, WATER, ELECTRICAL, OR REFRIGERATION CONDUIT SERVICES AS REQUIRED ON PLANS.
3. GENERAL CONTRACTOR TO PROVIDE AND INSTALL ROOF JACKS OR PITCH POCKET FOR REFRIGERATION LINE PENETRATIONS THROUGH ROOF. (VERIFY LOCATION WITH REFRIGERATION CONTRACTOR).
4. GENERAL CONTRACTOR TO PROVIDE DUCT WRAP OR SHAFT(S) AND OPENING(S) THROUGH WALLS, CEILING, AND ROOF FOR EXHAUST AND MAKE-UP AIR DUCTS WITH CURB ON ROOF FLASHED AND SEALED TO MEET ALL CODES.
5. GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL WALL BACKING IN WALLS FOR MOUNTING OF WALL SHELVES, POT RACKS, HAND SINKS, VANITIES, ETC. AS SHOWN ON BUILDING WORKS PLANS.
6. ALL HORIZONTAL DIMENSIONS ARE FROM GRID LINE, FINISHED FACE OF WALL TO FINISHED FACE OF WALL, OR CENTERLINE OF COLUMN OR CASED OPENING.
7. ALL VERTICAL DIMENSIONS ARE FROM FINISHED FLOOR TO FINISHED TOP OF WALL OR WALL OPENING.
8. ALL WALLS IN CONTACT WITH OR WITHIN 18" OF COOKING EQUIPMENT SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS AS PER LOCAL CODES.
9. WHERE REQUIRED, SPRINKLER HEADS IN WALK-IN FREEZER WILL BE PROVIDED BY AND PROTECTED AGAINST FREEZING BY GENERAL CONTRACTOR.
10. IT SHALL BECOME THE RESPONSIBILITY OF THE OWNER, ARCHITECT, ENGINEERS, AND / OR GENERAL CONTRACTOR TO ENSURE THAT THE KITCHEN EQUIPMENT CONTRACTOR RECEIVES COPIES OF ALL ADDENDUMS AND CHANGES TO THE BUILDING PLANS PRIOR TO OR DURING CONSTRUCTION, WHEREAS ADDENDUMS AND / OR CHANGES AFFECT ANY PORTION PERTINENT TO THE FOOD AND BEVERAGE PORTION.
11. GENERAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY PENETRATION (HOLES / CHASES) FOR LINE RUNS THROUGH (WALLS / FLOORS / CEILINGS / ROOF) AS REQUIRED FOR ALL FOODSERVICE EQUIPMENT AND TO SEAL ALL PENETRATIONS WITH PROPER SEALANT.
12. GENERAL CONTRACTOR TO PROVIDE ALL FIRE EXTINGUISHERS AS REQUIRED BY CODE.
13. GENERAL CONTRACTOR TO PROVIDE BUILDING ACCESS FOR OVERSIZED KITCHEN EQUIPMENT TO BE COORDINATED WITH KITCHEN EQUIPMENT CONTRACTOR.
14. GENERAL CONTRACTOR TO COORDINATE EQUIPMENT STARTUP AFTER KITCHEN EQUIPMENT CONTRACTOR INSTALLS EQUIPMENT. KITCHEN EQUIPMENT CONTRACTOR TO PROVIDE STARTUP CONTACTS TO GENERAL CONTRACTOR AFTER INSTALLATION.
15. ALL RECESSED MOP SINKS TO BE CONSTRUCTED BY GENERAL CONTRACTOR. GENERAL CONTRACTOR TO PROVIDE STAINLESS STEEL PANELS UP TO 42" AFF AND GRATE FOR RECESSED MOP SINK. BASIN MOP SINK AND STAINLESS STEEL PANELS TO BE PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR UNLESS OTHERWISE NOTED.

REFRIGERATION NOTES

1. REFRIGERATION CONTRACTOR SHALL RUN ALL REFRIGERATION LINES, WHICH EXTEND DOWN THROUGH WALL(S) BEFORE WALL(S) ARE CLOSED UP WHEN CONDUIT IS NOT PROVIDED.
2. REFRIGERATION CONTRACTOR SHALL INSULATE ALL REFRIGERATION SUCTION LINES.
3. ALL PENETRATIONS THROUGH TO ROOF TO BE DONE BY GENERAL CONTRACTOR.
4. REFRIGERATION CONTRACTOR TO SEAL BOTH ENDS OF CONDUIT WITH FOMOFIL AFTER ALL LINES HAVE BEEN RUN.
5. GENERAL CONTRACTOR TO ALLOW 3'-0" OF CLEAR SPACE AROUND ROOF PAD FOR MAINTENANCE.
6. GENERAL CONTRACTOR TO VERIFY REFRIGERATION LINE RUN THROUGH TO ROOF OR MULTI-STORY BUILDING PRIOR TO CONSTRUCTION WITH REFRIGERATION CONTRACTOR FOR ACCESSIBILITY.
7. GENERAL CONTRACTOR TO VERIFY ACCESS OF CRANE WITH REFRIGERATION CONTRACTOR PRIOR TO CONSTRUCTION (IF REQUIRED).
8. REFRIGERATION CONTRACTOR TO SUPPLY AND INSTALL HEAT TAPE ON INDIRECT DRAIN LINES FOR WALK-IN FREEZERS & FREEZER BASES.
9. GENERAL CONTRACTOR TO PROVIDE CURBS FOR CONDENSING UNITS ON ROOF UNLESS RACKS ARE SPECIFIED. GENERAL CONTRACTOR TO USE PROPER SEALANT AND FLASHING ON CURBS.
10. GENERAL CONTRACTOR TO PLACE ICE MACHINE AND WALK-IN FREEZER / COOLER CONDENSING UNITS PER MECHANICAL SHEETS.
11. ICE MACHINE VENDOR AND WALK-IN CONTRACTOR RESPONSIBLE FOR PROVIDING, RUNNING, AND CONNECTING REFRIGERANT PIPING.

ABBREVIATIONS

ADJ	ADJUSTABLE	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	LH	LEFT HINGE
ALT	ALTERNATE	MAX	MAXIMUM
AMP	AMPERAGE	MC	MECHANICAL CONTRACTOR
AOR	ARCHITECT OF RECORD	MECH	MECHANICAL
APPROX	APPROXIMATE	MEZZ	MEZZANINE
AVG	AVERAGE	MIN	MINIMUM
BOH	BACK OF HOUSE	ML	MIDLINE
BLDG	BUILDING	MTD	MOUNTED
BTU	BRITISH THERMAL UNIT	MWK	MILLWORK VENDOR
CAD	COMPUTER AIDED DESIGN	N/A	NOT APPLICABLE
CC	CENTER TO CENTER	NIC	NOT IN CONTRACT
CFA	CHICK-FIL-A	NO.	NUMBER
CL	CENTERLINE	NTS	NOT TO SCALE
CLG	CEILING	OC	ON CENTER
CO	CASED OPENING	OWN	OWNER
CU FT	CUBIC FEET	P	PLUG
CW	COLD WATER	PC	PLUMBING CONTRACTOR
D	DUCT SMOKE ANNUNCIATOR	PH	PHASE
DBL	DOUBLE	PLYWD	PLYWOOD
DIA	DIAMETER (Ø)	PRI	PLUMBING ROUGH-IN
DIM	DIMENSION	QTY	QUANTITY
DL	DUAL LINE	R	RECEPTACLE
DW	DIRECT WASTE	RCP	REFLECTED CEILING PLAN
DWG	DRAWING	RE:	REFERENCE
EA	EACH	REF	REFRIGERATOR
EC	ELECTRICAL CONTRACTOR	REQ'D	REQUIRED
ELEC	ELECTRICAL	REV	REVISION
EQ	EQUIPMENT	RH	RIGHT HINGE
ERI	ELECTRICAL ROUGH-IN	RI	ROUGH-IN
EXT	EXTERIOR	RM	ROOM
FAB	FABRICATE	RSUB	REFRIGERATION SUBCONTRACTOR
FLEX	FLEXIBLE	RVT	REVIT
FOH	FRONT OF HOUSE	SML	SMALLWARES VENDOR
FSD	FOODSERVICE DIRECTOR	SOW	SCOPE OF WORK
FSP	FOODSERVICE PROVIDER	SPEC	SPECIFICATION
FURN	FURNITURE VENDOR	SQ FT	SQUARE FEET
FW	FILTERED WATER	SS	SOLID SURFACE
GC	GENERAL CONTRACTOR	S/S	STAINLESS STEEL
GEN	GENERAL	STD	STANDARD
GYP	GYPSUM	T	THERMOSTAT
HC	HUMIDITY CONTROLLER	TL	TWIST LOCK
HGT	HEIGHT	TW	TEPID WATER
HORZ	HORIZONTAL	TYP	TYPICAL
HP	HORSEPOWER	V	VOLTS
HW	HOT WATER	VEN	VENDOR
IN	INCH	VERT	VERTICAL
INCL	INCLUDE	WARE	CHICK-FIL-A WAREHOUSE
INT	INTERIOR	WH	WATER HEATER
IT	CHICK-FIL-A IT (DTT)	WIC	WALK-IN COOLER
IW	INDIRECT WASTE	WIF	WALK-IN FREEZER
J-BOX	JUNCTION BOX	WP	WEATHERPROOF
KEC	KITCHEN EQUIPMENT CONTRACTOR		

HEALTH DEPARTMENT NOTES

1. ALL EQUIPMENT IS TO BE CONSTRUCTED AND INSTALLED PER THE REQUIREMENTS OF THE COUNTY'S BOARD OF HEALTH (DIVISION OF ENVIRONMENTAL HEALTH). ACCEPTANCE OF THESE PLANS BY THE COUNTY'S BOARD OF HEALTH IS SUBJECT TO FINAL INSPECTION BY SAID AGENCY. TRIMARK ASSUMES NO RESPONSIBILITY FOR ANY ADDITIONAL EQUIPMENT, TRIM, OR LABOR REQUIRED TO MEET ANY UNFORESEEN REQUIREMENTS THAT MAY ARISE FROM THE INSPECTION.
2. EMPLOYEE LOCKERS TO BE INSTALLED WITH METAL LEGS OR WALL MOUNTED AT A MINIMUM OF 6" OFF FINISHED FLOOR. GENERAL CONTRACTOR TO PROVIDE BLOCKING FOR WALL MOUNTED LOCKERS PER ARCHITECTURAL SHEETS IF REQUIRED.
3. ALL WALLS AND CEILING IN FOOD HANDLING AREAS TO BE SMOOTH, NON-ABSORBENT, LIGHT IN COLOR, AND EASILY CLEANABLE AS DEFINED BY THE LOCAL HEALTH DEPARTMENT.

MISCELLANEOUS NOTES

1. WHEN SOUND / MUSIC SYSTEM(S) ARE INSTALLED, ELECTRICAL CONTRACTOR TO PROVIDE CIRCUITS AND MAKE ALL NECESSARY ELECTRICAL HOOK-UPS.
2. MILLWORK VENDOR TO PROVIDE NETWORK CABINET IF REQUIRED. GENERAL CONTRACTOR TO INSTALL NETWORK CABINET PRIOR TO OFFICE MILLWORK INSTALLATION.

MECHANICAL NOTES

1. MECHANICAL ENGINEER TO PROVIDE MAKE-UP AIR WHICH SHALL BE DELIVERED TO THE SUPPLY AIR PLENUM OF THE EXHAUST HOOD OR IN THE PROXIMITY OF THE EXHAUST HOOD IN SUCH A MANNER AS TO NOT CREATE UNDUE TURBULENCE IN THE WORKING AREAS.
2. MECHANICAL CONTRACTOR TO VERIFY THE LOCATION(S) OF THE EXHAUST AND MAKE-UP AIR DUCT(S) AT JOB SITE WITH KITCHEN EQUIPMENT CONTRACTOR.
3. HVAC RETURNS SHOULD BE A MINIMUM OF 8'-0" AWAY FROM BREADING AREA.
4. AVOID HVAC DIFFUSERS ABOVE CENTERLINE TABLE.

SYMBOLS & LINETYPES

- #K-### — ERI ELEVATION MARKER
- #K-### — PRI ELEVATION MARKER
- INTERNATIONAL FIRE CODE CLEARANCE
- ELEVATION HEIGHT MARKER
- 2X6 BLOCKING

- CLEARANCE
- EXISTING
- DEMO
- NEW
- FUTURE
- OBSTRUCTED
- SURFACE
- ABOVE

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5200 Buffington Road
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WEST POND FSU

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WOODRIDGE, NJ 07095-1004

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

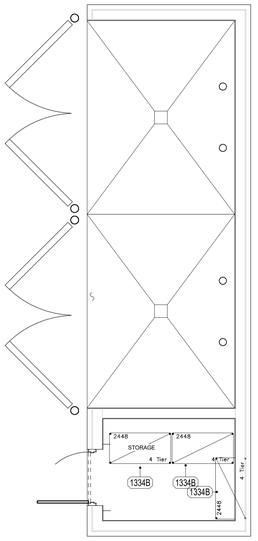
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DATE 01/24/2022
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SHEET
GENERAL NOTES

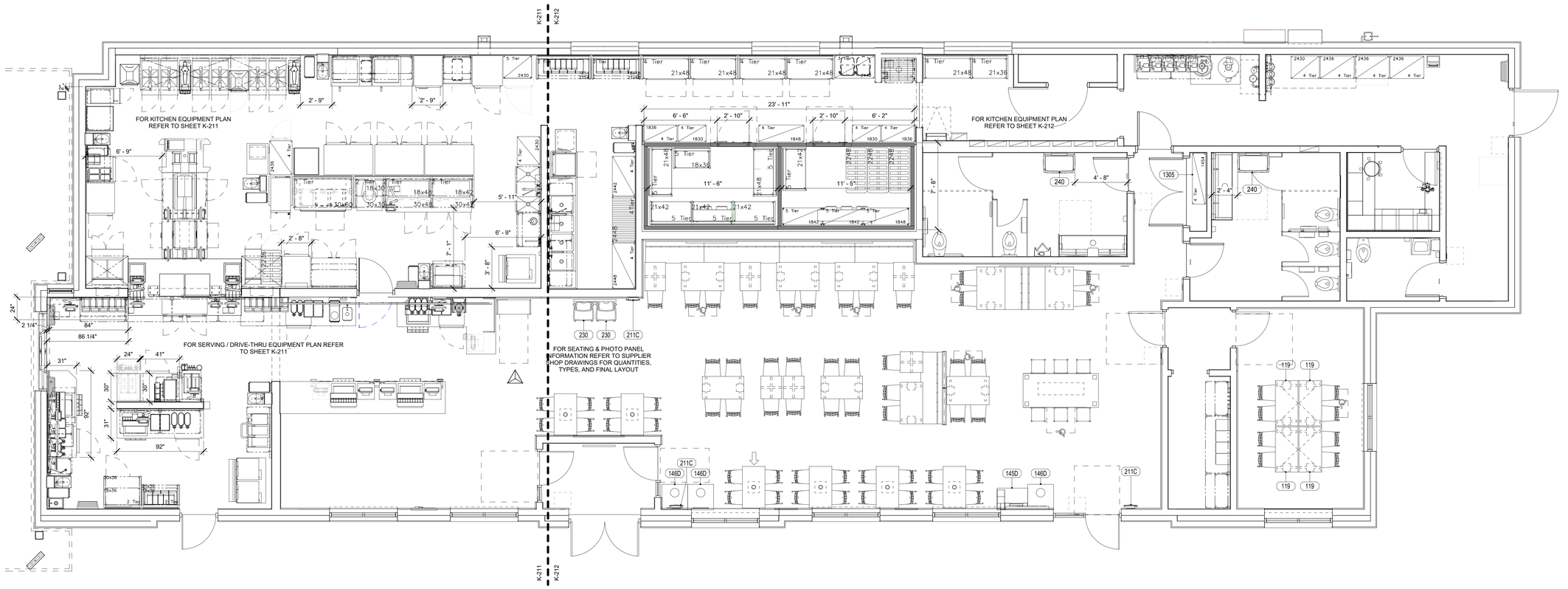
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K-001

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60-LE-04591-K-001-GENERAL NOTES



NOTE:
REFUSE ENCLOSURE SHOWN FOR PROTOTYPICAL SHELVING LOCATIONS AND SPACING PURPOSES ONLY. VERIFY ACTUAL REFUSE ENCLOSURE INFORMATION AND LOCATION ON ARCHITECTURAL SHEETS

② REFUSE ENCLOSURE FLOOR PLAN
1/4" = 1'-0"



① PARTIAL EQUIPMENT PLAN - DINING
1/4" = 1'-0"

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60-LE-04591-K-201-OVERALL EQUIPMENT FLOOR PLAN

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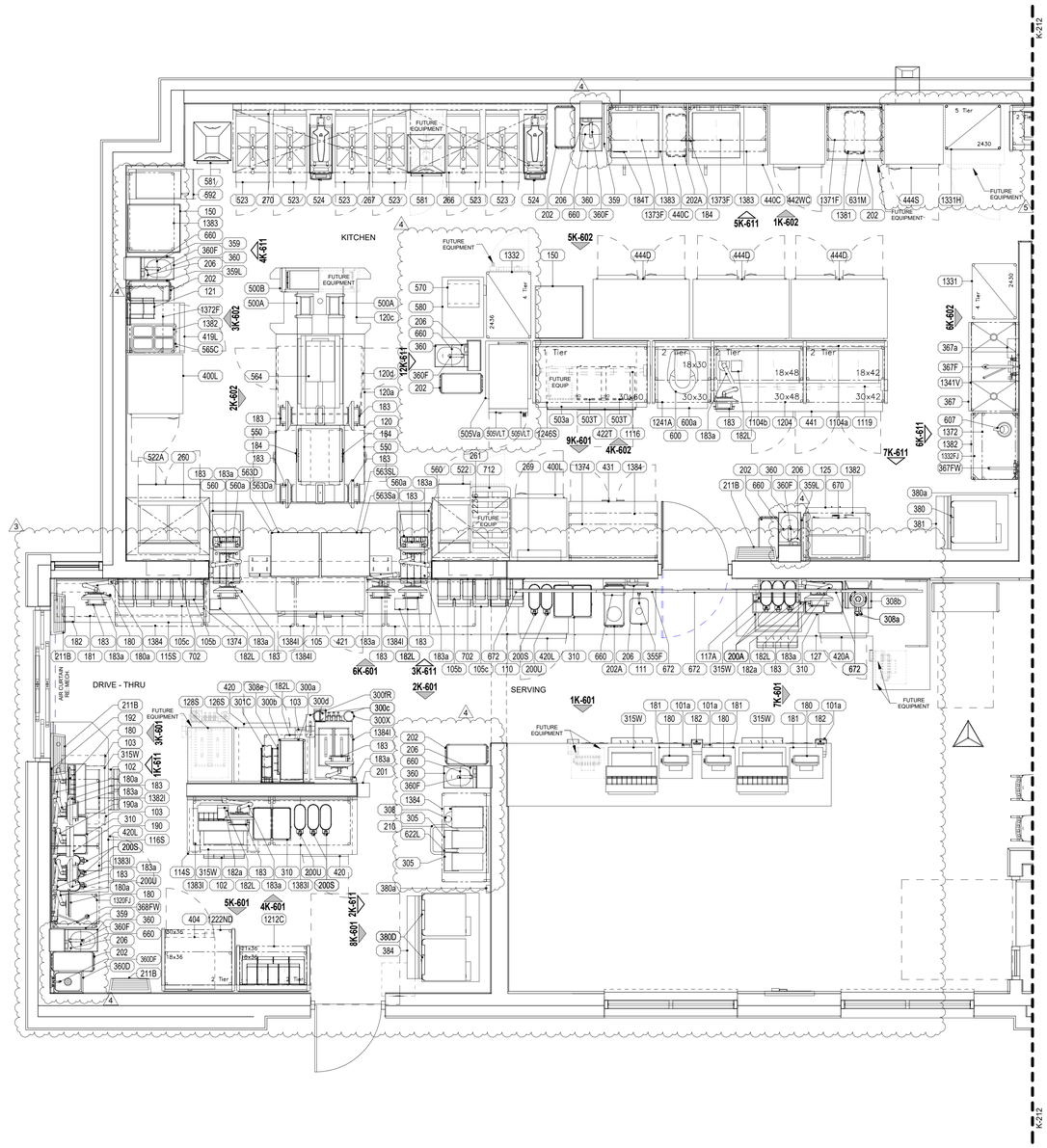
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SHEET
OVERALL EQUIPMENT FLOOR PLAN

SHEET NUMBER
K-201



1 PARTIAL EQUIPMENT PLAN - SERVING/KITCHEN
3/8" = 1'-0"

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CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	07-22-22	DESIGN NOTES
4	11-02-22	HEALTH COMMENTS
5	11-14-22	CAPACITY REVISION

- For Construction -

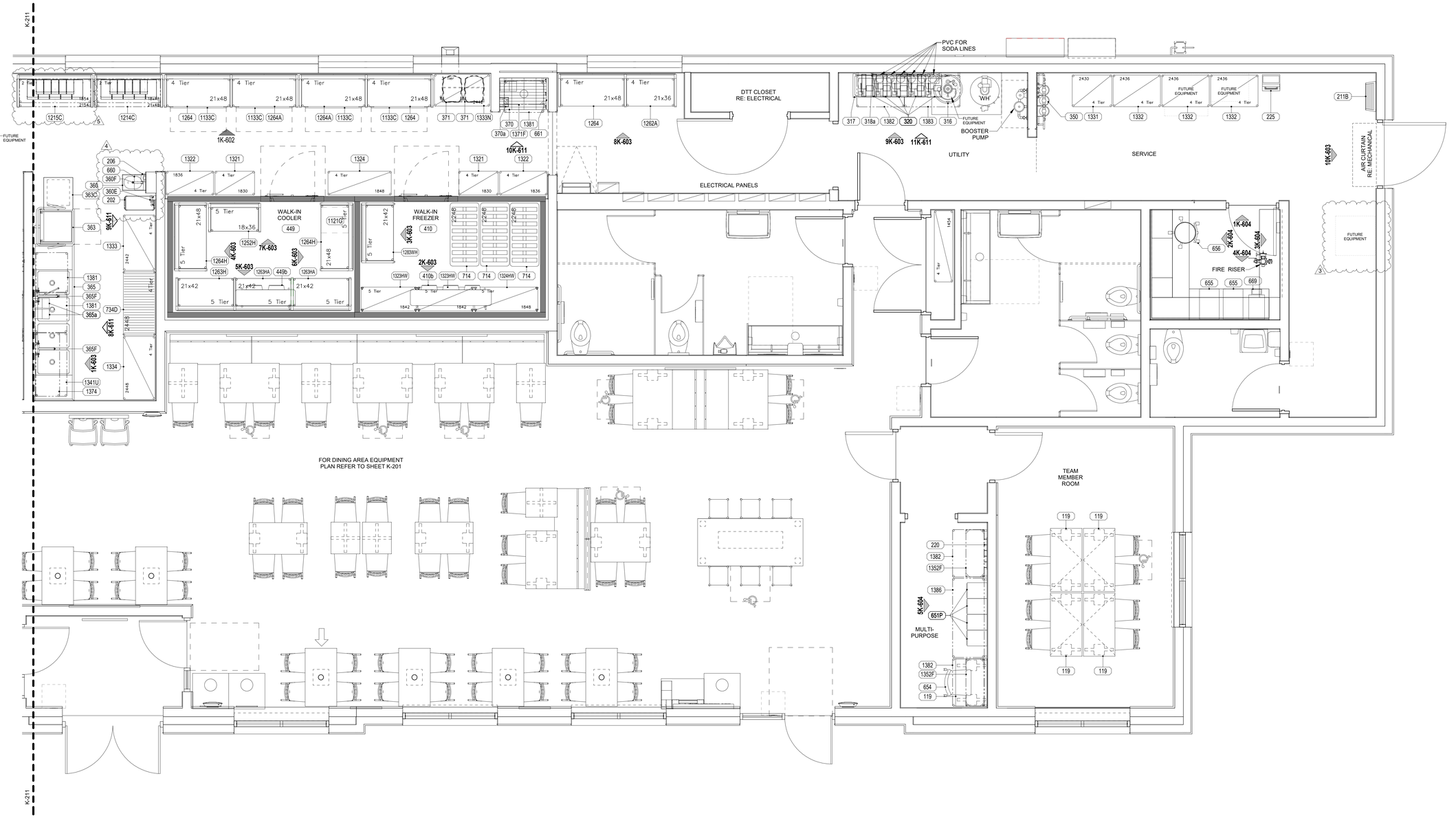
CONSULTANT PROJECT #
DATE 11/03/22
DRAWN BY TPS

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SHEET
ENLARGED EQUIPMENT FLOOR PLAN

SHEET NUMBER
K-211

11/18/2022 10:59:18 AM BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_EQK.rvt
60-LE-04591-K-211-ENLARGED EQUIPMENT FLOOR PLAN



1 PARTIAL EQUIPMENT PLAN - KITCHEN/BOH
3/8" = 1'-0"

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30349-2998

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WEST POND FSU

320 US HIGHWAY 9 N
WOODRIDGE, NJ 07095-1004

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	07-22-22	DESIGN NOTES
4	11-02-22	HEALTH COMMENTS
5	11-14-22	CAPACITY REVISION

- For Construction -

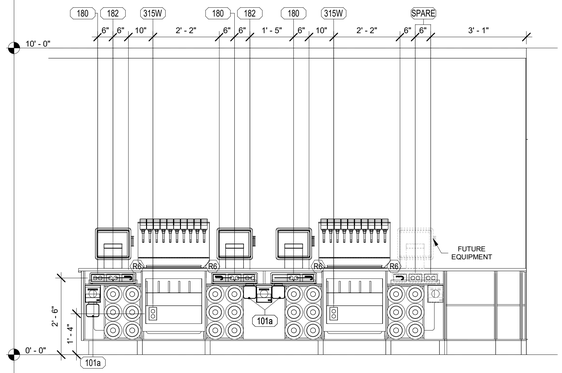
CONSULTANT PROJECT #
DATE 11/03/22
DRAWN BY TPS

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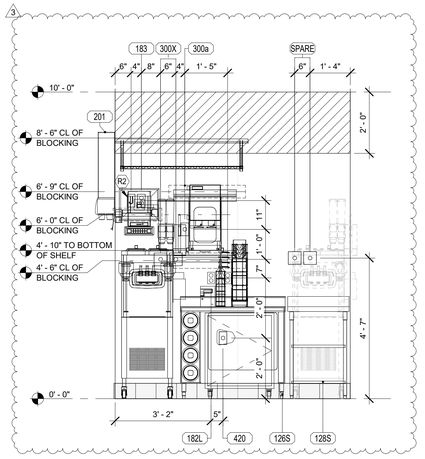
SHEET
ENLARGED EQUIPMENT FLOOR PLAN

SHEET NUMBER
K-212

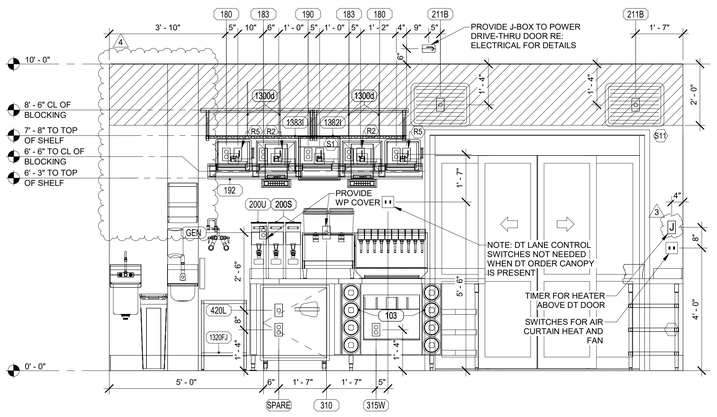
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60-LE-04591-K-212-ENLARGED EQUIPMENT FLOOR PLAN



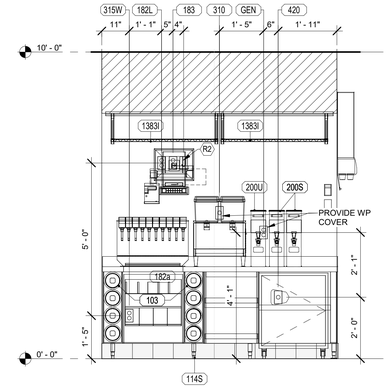
1 SERVING / DRIVE-THRU
1/2" = 1'-0"



2 DRIVE-THRU
1/2" = 1'-0"



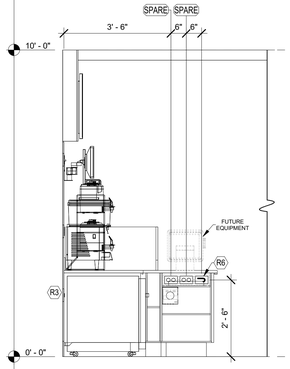
3 DRIVE-THRU
1/2" = 1'-0"



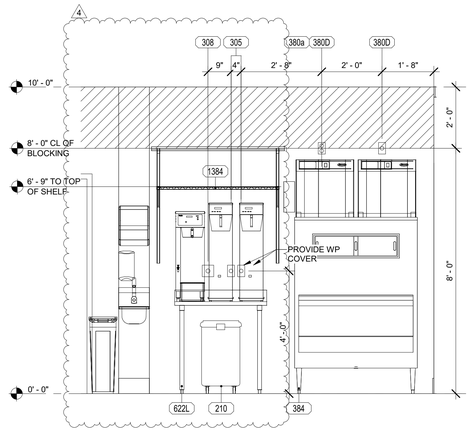
4 DRIVE -THRU
1/2" = 1'-0"

5 DRIVE-THRU
1/2" = 1'-0"

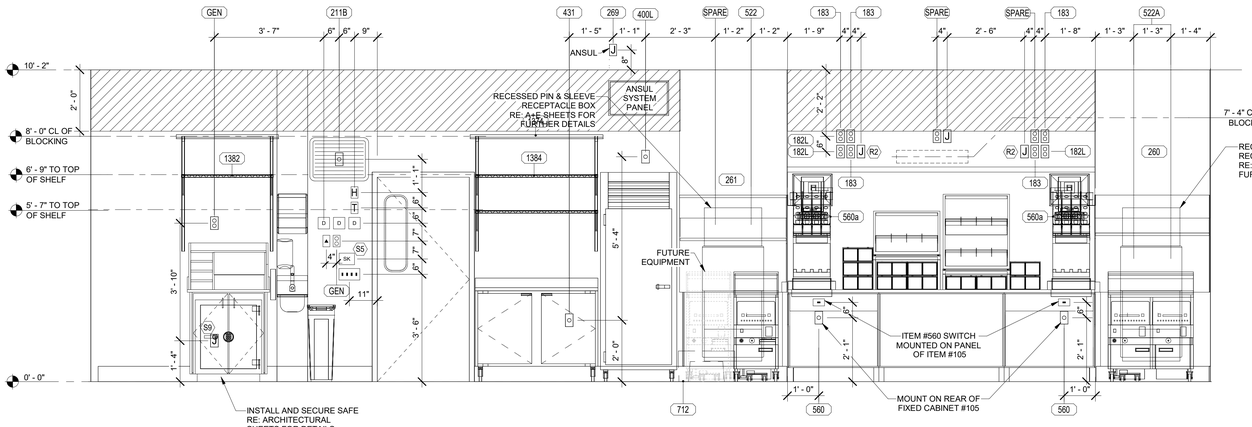
6 SERVING / DRIVE-THRU
1/2" = 1'-0"



7 SERVING
1/2" = 1'-0"



8 DRIVE-THRU
1/2" = 1'-0"



9 KITCHEN
1/2" = 1'-0"

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FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	07-22-22	DESIGN NOTES
4	11-2-22	HEALTH COMMENTS

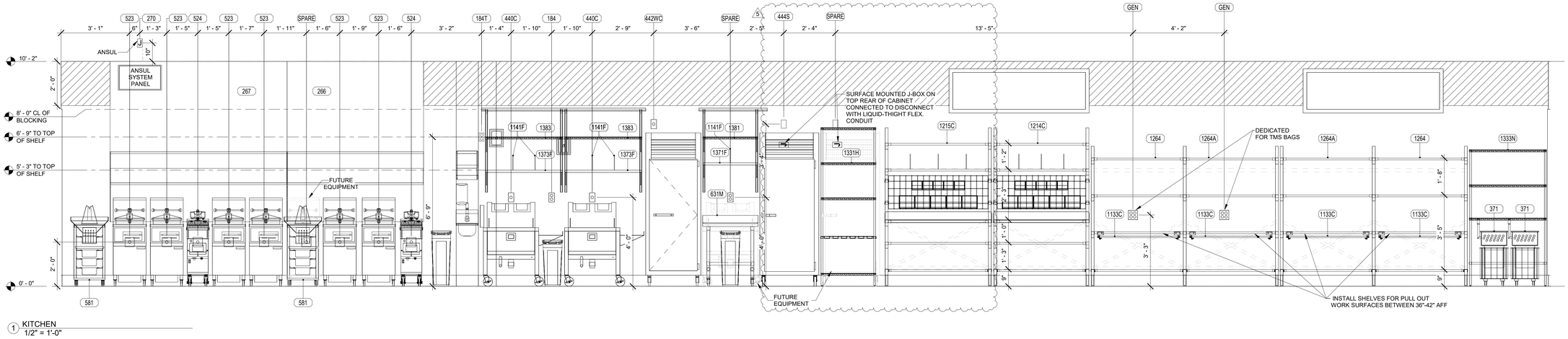
CONSULTANT PROJECT #
DATE 11/03/22
DRAWN BY TPS

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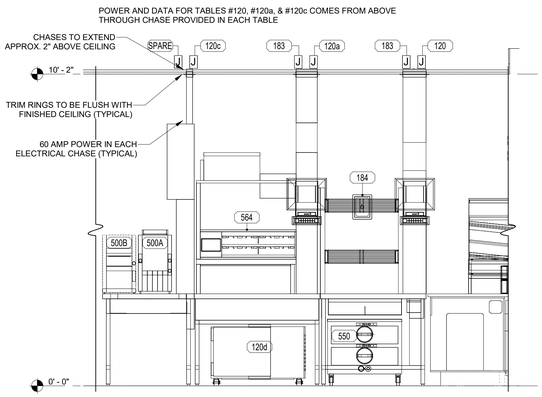
SHEET
ELECTRICAL ROUGH-IN ELEVATIONS

SHEET NUMBER
K-601

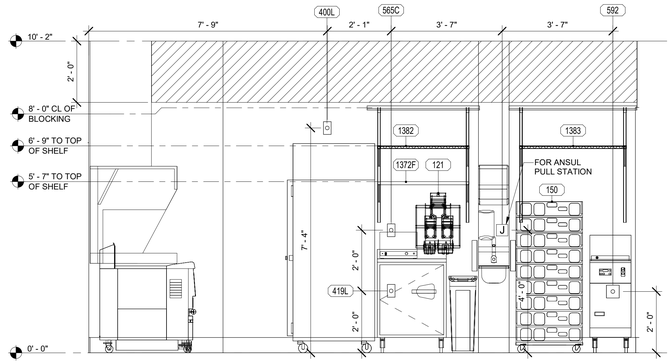
11/3/2022 10:50:26 AM BIM 360://NJ_04591_West Pond_2020.11_FSR04591_West Pond_EQK.rvt
60-LE-04591-K-601-ELECTRICAL ROUGH-IN ELEVATIONS



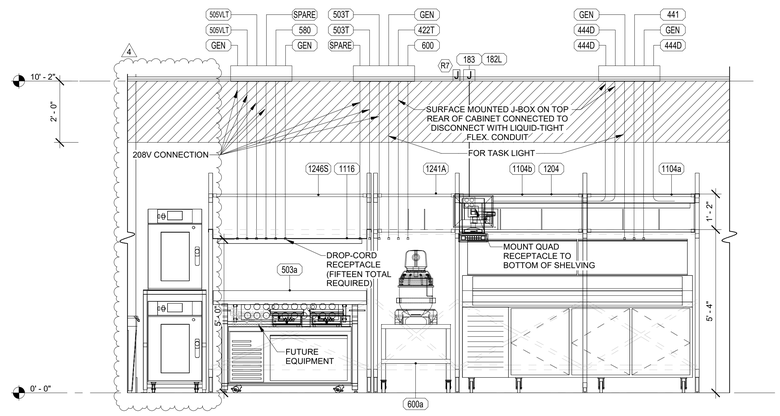
1 KITCHEN
1/2" = 1'-0"



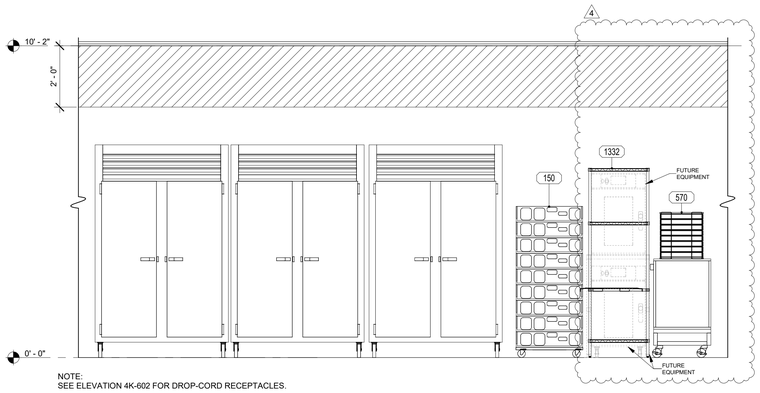
2 KITCHEN
1/2" = 1'-0"



3 KITCHEN
1/2" = 1'-0"

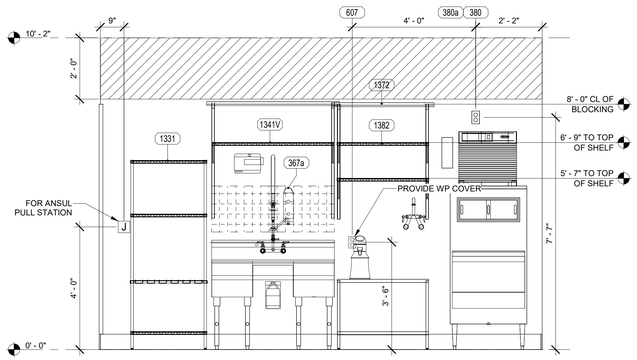


4 KITCHEN
1/2" = 1'-0"



NOTE:
SEE ELEVATION 4K-602 FOR DROP-CORD RECEPTACLES.

5 KITCHEN
1/2" = 1'-0"



6 KITCHEN
1/2" = 1'-0"

ELECTRICAL LEGEND	
###Aa	EQUIPMENT ITEM NUMBER
A#	REFER TO KEYNOTES ON E-SHEETS
J	JUNCTION BOX (SINGLE GANG)
J	JUNCTION BOX (DOUBLE GANG)
	SIMPLEX RECEPTACLE (SINGLE GANG)
	SIMPLEX RECEPTACLE (DOUBLE GANG)
	DUPLEX RECEPTACLE
	QUADRAPLEX RECEPTACLE
T	SIDE VIEW SURFACE MOUNTED RECEPTACLE
	SWITCH
	PHONE
H	HUMIDITY SENSOR
T	TEMPERATURE SENSOR
D	SMOKE DETECTOR LED (DOUBLE GANG BOX)
SK	SECURITY KEYPAD

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WOODRIDGE, NJ 07095-1004

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
4	11-02-22	HEALTH COMMENTS
5	11-14-22	CAPACITY REVISION

- For Construction -

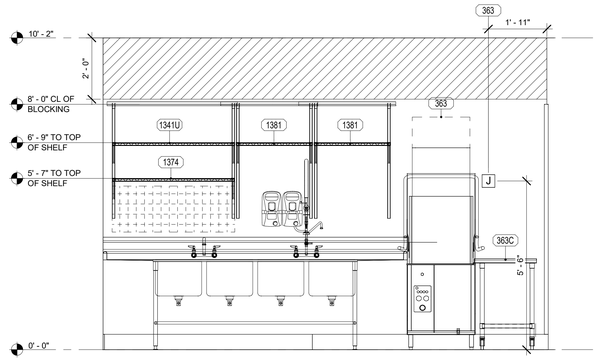
CONSULTANT PROJECT #
DATE 11/03/22
DRAWN BY TPS

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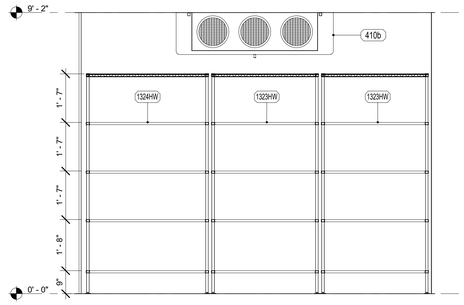
SHEET
ELECTRICAL ROUGH-IN ELEVATIONS

SHEET NUMBER
K-602

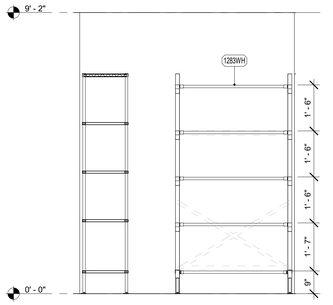
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60-LE-04591-K-602-ELECTRICAL ROUGH-IN ELEVATIONS



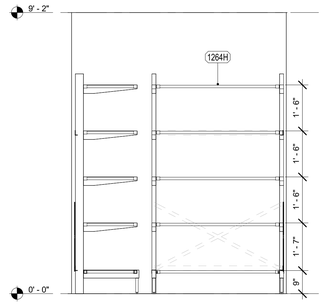
1 KITCHEN
1/2" = 1'-0"



2 WALK-IN FREEZER
1/2" = 1'-0"



3 WALK-IN FREEZER
1/2" = 1'-0"



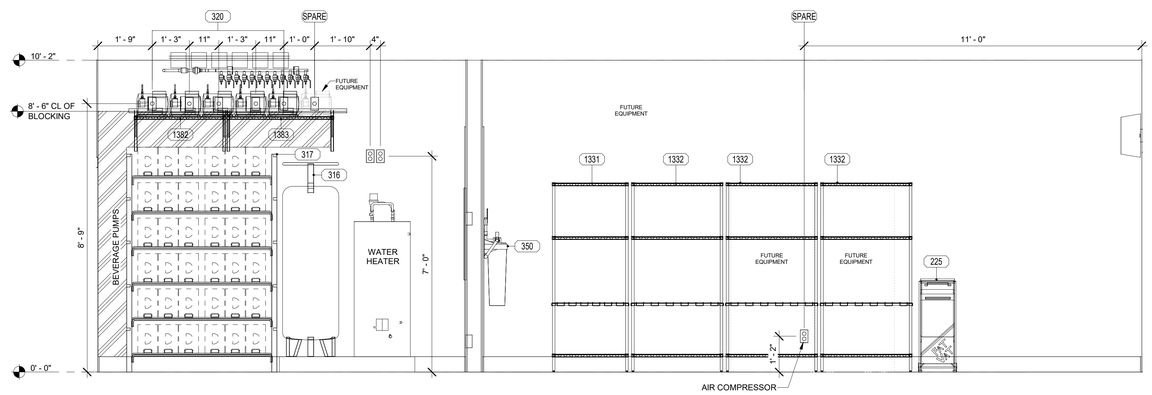
4 WALK-IN COOLER
1/2" = 1'-0"

5 WALK-IN COOLER
1/2" = 1'-0"

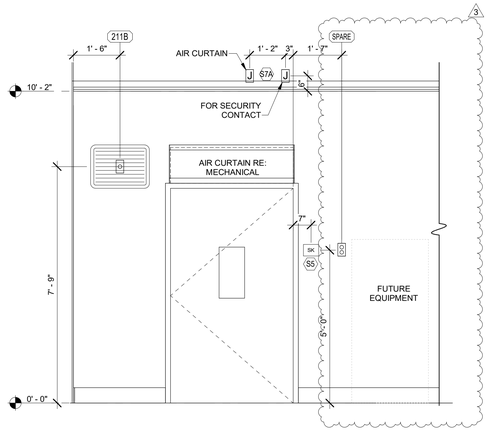
6 WALK-IN COOLER
1/2" = 1'-0"

7 WALK-IN COOLER
1/2" = 1'-0"

8 MULTI - PURPOSE AREA
1/2" = 1'-0"



9 UTILITY
1/2" = 1'-0"



10 UTILITY
1/2" = 1'-0"

ELECTRICAL LEGEND	
###As	EQUIPMENT ITEM NUMBER
A#	REFER TO KEYNOTES ON E-SHEETS
J	JUNCTION BOX (SINGLE GANG)
J	JUNCTION BOX (DOUBLE GANG)
	SIMPLEX RECEPTACLE (SINGLE GANG)
	SIMPLEX RECEPTACLE (DOUBLE GANG)
	DUPLEX RECEPTACLE
	QUADRAPLEX RECEPTACLE
	SIDE VIEW SURFACE MOUNTED RECEPTACLE
	SWITCH
	PHONE
H	HUMIDITY SENSOR
T	TEMPERATURE SENSOR
D	SMOKE DETECTOR LED (DOUBLE GANG BOX)
SK	SECURITY KEYPAD

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FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	07-22-22	Revision 3

- For Construction -

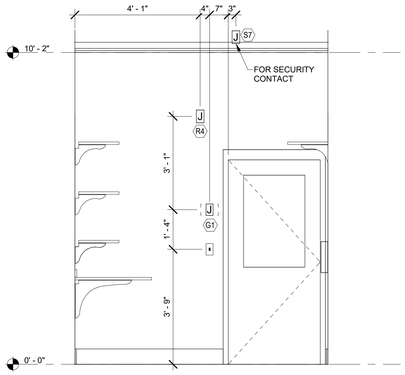
CONSULTANT PROJECT #
DATE 09/29/22
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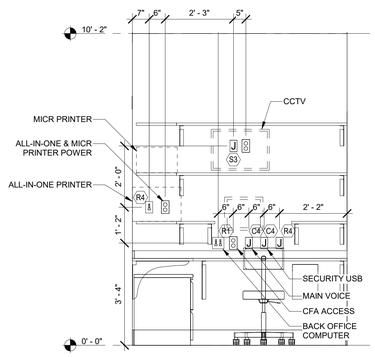
SHEET
ELECTRICAL ROUGH-IN ELEVATIONS

SHEET NUMBER
K-603

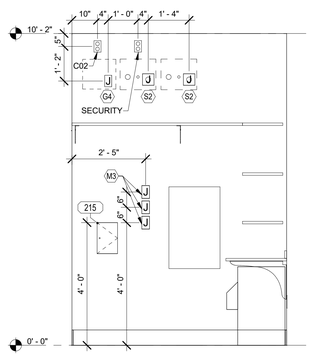
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60-LE-04591-K-603-ELECTRICAL ROUGH-IN ELEVATIONS



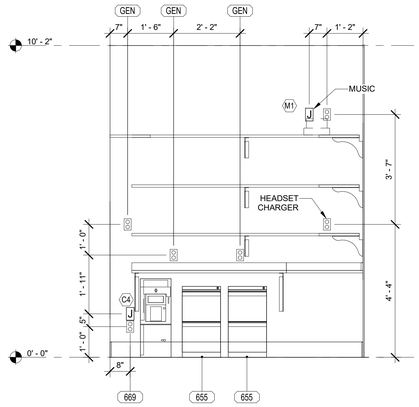
1 OFFICE
1/2" = 1'-0"



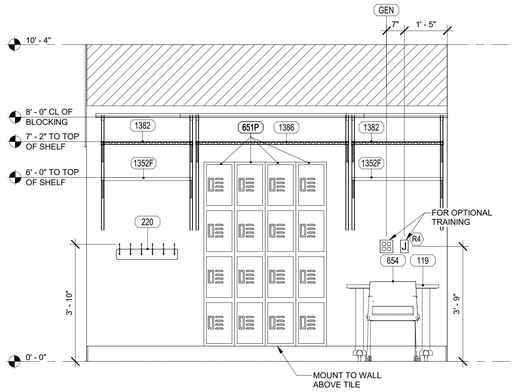
2 OFFICE
1/2" = 1'-0"



3 OFFICE
1/2" = 1'-0"



4 OFFICE
1/2" = 1'-0"



5 TEAM MEMBER SPACE
1/2" = 1'-0"

ELECTRICAL LEGEND

###A##	EQUIPMENT ITEM NUMBER
A#	REFER TO KEYNOTES ON E-SHEETS
J	JUNCTION BOX (SINGLE GANG)
J	JUNCTION BOX (DOUBLE GANG)
	SIMPLEX RECEPTACLE (SINGLE GANG)
	SIMPLEX RECEPTACLE (DOUBLE GANG)
	DUPLEX RECEPTACLE
	QUADRAPLEX RECEPTACLE
	SIDE VIEW SURFACE MOUNTED RECEPTACLE
	SWITCH
	PHONE
H	HUMIDITY SENSOR
T	TEMPERATURE SENSOR
D	SMOKE DETECTOR LED (DOUBLE GANG BOX)
SK	SECURITY KEYPAD

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FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

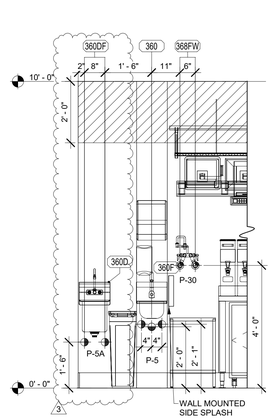
CONSULTANT PROJECT #
DATE 01/24/2022
DRAWN BY TPS

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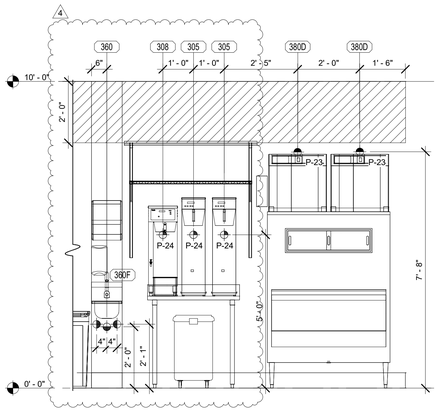
SHEET
ELECTRICAL ROUGH-IN ELEVATIONS

SHEET NUMBER
K-604

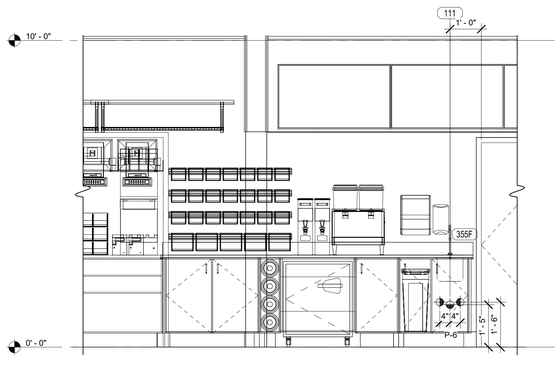
1/24/2022 2:44:10 PM BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_EQK.rvt
60-LE-04591-K-604-ELECTRICAL ROUGH-IN ELEVATIONS



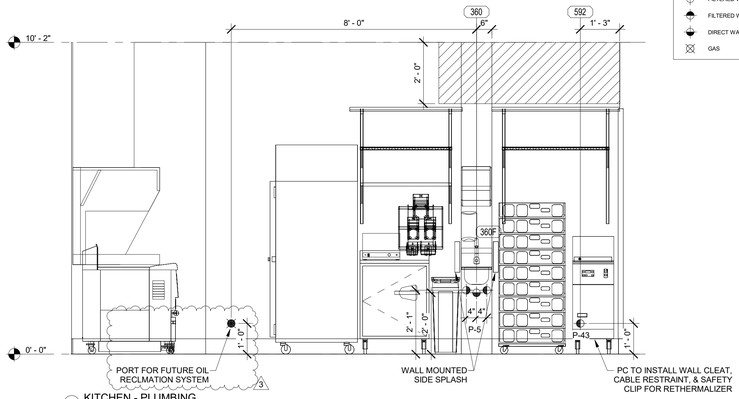
1 DRIVE - THRU - PLUMBING
1/2" = 1'-0"



2 DRIVE - THRU - PLUMBING
1/2" = 1'-0"



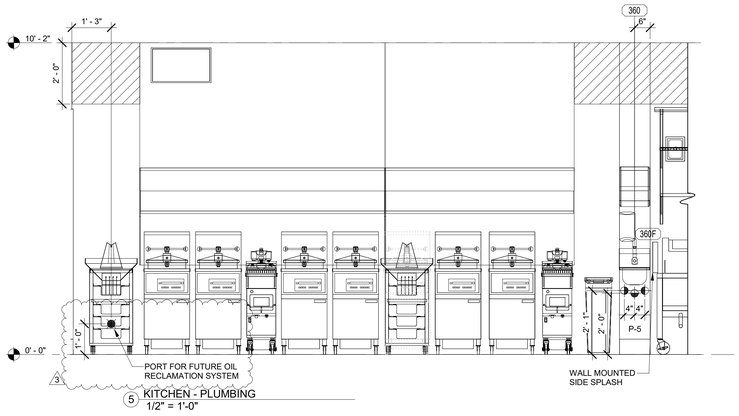
3 SERVING - PLUMBING
1/2" = 1'-0"



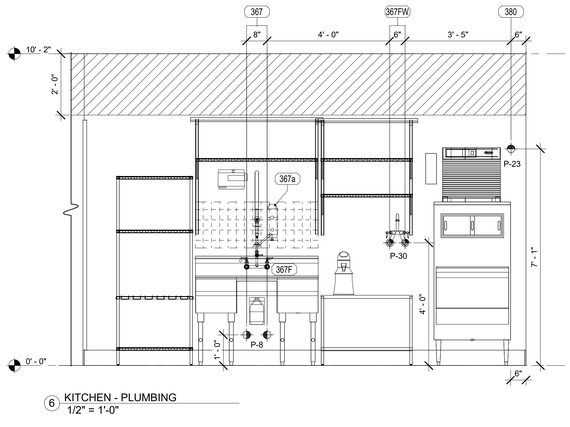
4 KITCHEN - PLUMBING
1/2" = 1'-0"

PLUMBING LEGEND

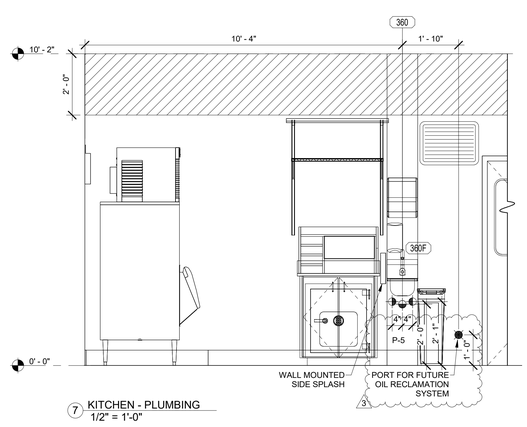
####a	EQUIPMENT ITEM NUMBER
	HOT WATER (HW)
	COLD WATER (CW)
	TEPID WATER (TW)
	FILTERED WATER (FW)
	FILTERED WATER (FW2)
	DIRECT WASTE (DW)
	GAS



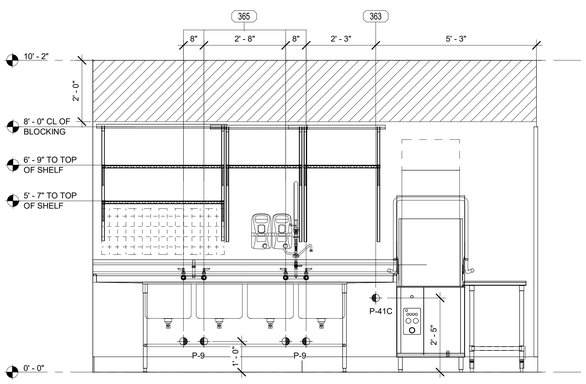
5 KITCHEN - PLUMBING
1/2" = 1'-0"



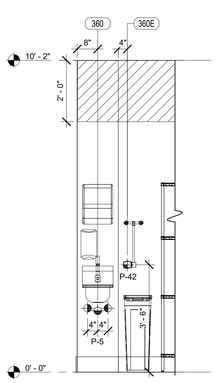
6 KITCHEN - PLUMBING
1/2" = 1'-0"



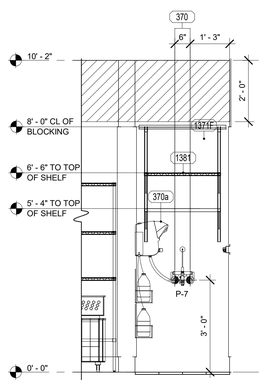
7 KITCHEN - PLUMBING
1/2" = 1'-0"



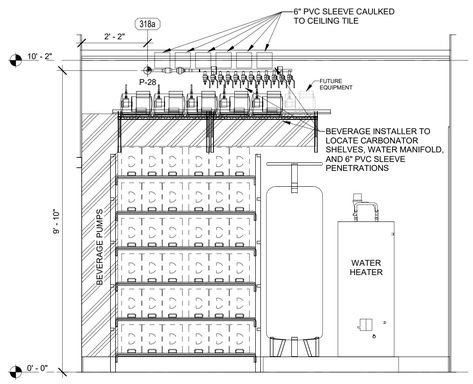
8 KITCHEN - PLUMBING
1/2" = 1'-0"



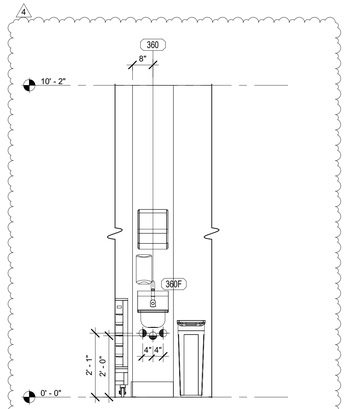
9 KITCHEN - PLUMBING
1/2" = 1'-0"



10 KITCHEN - PLUMBING
1/2" = 1'-0"



11 UTILITY/SERVICE - PLUMBING
1/2" = 1'-0"



12 KITCHEN - PLUMBING
1/2" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

TriMark®
Foodservice Equipment, Supplies and Design

CHICK-FIL-A
WEST POND FSU

320 US HIGHWAY 9 N
WOODRIDGE, NJ 07095-1004

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
PERMIT

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	07-22-22	DESIGN NOTES
4	11-2-22	HEALTH COMMENTS

CONSULTANT PROJECT #
DATE 11/03/22
DRAWN BY TPS

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SHEET
PLUMBING ROUGH-IN ELEVATIONS

SHEET NUMBER
K-611

11/3/2022 10:50:34 AM BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_EQK.rvt
60-LE-04591-K-611-PLUMBING ROUGH-IN ELEVATIONS

ITEM #	QUANTITY	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER	FURNISHED BY	INSTALLED BY	ELECTRICAL						PLUMBING								ITEM NO.	REMARKS (ALL ITEMS BY CHICK-FIL-A UNLESS NOTHERWISE NOTED)
						VOLT	PH	KW	AMP	HP	NEMA-RATING	HW	CW	TW	FW	FW2	IW	DW	ROUGH-IN		
101	1	SERVING COUNTER	MILLWORK PROVIDER	MLK	KEC															101	REFER TO MANUFACTURER SHOP DRAWINGS
101a	3	UNDER COUNTER STRAW HOLDER	FRANKE MODEL #22.110009760	SML	OWN															101a	PROVIDED BY CLARK
102	2	STAINLESS STEEL LID & CONDIMENT HOLDER	CLAYTON FIXTURE	MWK	KEC															102	
103	20	CUP DISPENSER	SAN JAMAR MODEL #C2410C	KEC	KEC															103	
105	1	PASS-THRU COUNTER	MILLWORK PROVIDER	MLK	KEC															105	REFER TO MANUFACTURER SHOP DRAWINGS
105a	11	STAINLESS STEEL BIN HOLDER	MILLWORK PROVIDER	MWK	KEC															105a	LOCATED ON PASS-THRU
105b	63	CONDIMENT BIN (5-1/2x10-7/8x5)	INTERMETRO MODEL #SB91055CAS	KEC	KEC															105b	ORDER DOUBLE THE QUANTITY OF BINS ON THE SCHEDULE FOR KANBAN SET
105c	10	CONDIMENT BIN (8-1/4x14-3/4x7)	INTERMETRO MODEL #SB91587CAS	KEC	KEC															105c	ORDER DOUBLE THE QUANTITY OF BINS ON THE SCHEDULE FOR KANBAN SET
110	1	BACK BAR COUNTER	MILLWORK PROVIDER	MLK	KEC															110	REFER TO MANUFACTURER SHOP DRAWINGS
111	1	STAINLESS STEEL UNDER COUNTER MOUNT HAND SINK	VOLLRATH MODEL #10101-1	MWK	KEC													DW	1 1/2"	111	PROVIDED IN MILLWORK PACKAGE BY CLAYTON FIXTURE
114S	1	STANDARD BEVERAGE COUNTER (31"x92")	ATLANTA CUSTOM FABRICATORS MODEL #3ACF738	KEC	KEC															114S	
115S	1	STANDARD DRIVE-THRU CASH COUNTER (24"x84")	ATLANTA CUSTOM FABRICATORS MODEL #3ACF653	KEC	KEC															115S	
116S	1	STANDARD DRIVE-THRU BEVERAGE COUNTER (31"x92")	ATLANTA CUSTOM FABRICATORS MODEL #3ACF395	KEC	KEC															116S	
117A	1	TEA DISPENSER SHELF	H&K MODEL #CFA008	KEC	KEC															117A	USE (2) 18-8 SS MCMASTER-CARR 92351A552 HEX HEAD LAG SCREWS PER 3/16" PRE-DRILLED HOLE STUD ONLY, MIN 2" APART
119	5	MULTI-PURPOSE TABLE	FURNITURE PROVIDER	FURN	KEC															119	RE: FURNITURE SHEETS FOR DETAILS
120	1	HOT HOLDING CENTERLINE TABLE	FRANKE MODEL #18018685	KEC	KEC	120/208	3	3.20	16.00		DIRECT CONNECTION									120	60 AMP SERVICE REQUIRED TO POWER TABLE AND ADDITIONAL EQUIPMENT EXCEPT POS - ORDER WITH ITEM #27807900
120a	1	COLD CENTERLINE TABLE	FRANKE MODEL #18008872	KEC	KEC	120/208	3	0.78	6.5		DIRECT CONNECTION									120a	60 AMP SERVICE REQUIRED TO POWER TABLE & ADDITIONAL EQUIPMENT EXCEPT POS - ORDER W/ ITEM #27808160
120c	1	TOASTER CENTERLINE TABLE	FRANKE MODEL #18013516	KEC	KEC	120/208	3				DIRECT CONNECTION									120c	60 AMP SERVICE REQUIRED TO POWER TABLE & ADDITIONAL EQUIPMENT EXCEPT POS - ORDER W/ITEM #27802293
120d	1	CENTERLINE UNDERCOUNTER REFRIGERATOR	FRANKE MODEL #18008870	KEC	KEC	115	1	0.60	5.00		5-15P									120d	LOCATED UNDER ITEM #120a - FRANKE COLD TABLE CIRCUIT #1
121	1	WALL MOUNTED SOUP PACKAGING HOLDER	FRANKE MODEL #27807101	KEC	KEC															121	SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
125	1	SAFE COUNTER	MILLWORK PROVIDER	MLK	KEC															125	REFER TO MANUFACTURER SHOP DRAWINGS
126S	1	STANDARD DRIVE-THRU DESSERT COUNTER (30"x41")	ATLANTA CUSTOM FABRICATORS MODEL #3ACF382	KEC	KEC															126S	
127	1	MOBILE COCKPIT COUNTER	MILLWORK PROVIDER	MLK	KEC															127	REFER TO MANUFACTURER SHOP DRAWINGS
128S	1	DRIVE-THRU DESSERT STAGING TABLE (30"x24")	ATLANTA CUSTOM FABRICATORS MODEL #3ACF737	KEC	KEC															128S	
135	2	COUNTERTOP	MILLWORK PROVIDER	MLK	KEC															135	REFER TO MANUFACTURER SHOP DRAWINGS
136	8	UPPER SHELF	MILLWORK PROVIDER	MLK	KEC															136	REFER TO MANUFACTURER SHOP DRAWINGS
145D	1	CONDIMENT COUNTER	MILLWORK PROVIDER	MWK	KEC															145D	REFER TO MANUFACTURER SHOP DRAWINGS
146D	3	TRASH CONTAINER	MILLWORK PROVIDER	MWK	KEC															146D	REFER TO MANUFACTURER SHOP DRAWINGS
150	3	BREAD RACK	LOCAL SUPPLIER	OWN	OWN															150	
180	6	ORDER REGISTER	NCR MODEL #P1230	IT	IT	120	1		0.70		5-20P									180	
180a	3	RADIAL ARM	INNOVATIVE MODEL #7000	IT	IT															180a	USED TO MOUNT ORDER MONITORS
181	4	CASH DRAWER	APG MODEL #4000																	181	
182	3	RECEIPT PRINTER	EPSON MODEL #TM-T88IV	IT	IT	24	1		1.80		5-20P									182	
182a	2	RECEIPT PRINTER CADDY & BRACE	ONSITE	CFA IT																182a	USED TO MOUNT RECEIPT PRINTER TO ORDER MONITOR - PROVIDED BY CFA IT
182L	7	LABEL PRINTER	EPSON MODEL #TM-L90	IT	IT	24	1		1.70		5-20P									182L	PROVIDED WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
183	16	ORDER MONITOR	RADIANT KITCHEN PRODUCTION SYSTEM	IT	IT	120	1		0.125		5-20P									183	
183a	12	RADIAL ARM	INNOVATIVE MODEL #7000	IT	IT															183a	USED TO MOUNT ORDER MONITORS
184	3	IPAD	APPLE	VEN	IT	120	1	0.120	1.00		5-20P									184	PROVIDED BY CONNECTION
184T	1	ITIMER	APPLE	SML	IT	120	1	0.120	1.00		5-20P									184T	PROVIDED BY CLARK
190	1	DRIVE-THRU VIDEO MONITOR	ACER MODEL #V173DJB	IT	IT	120	1		0.8		5-20P									190	
190a	1	RADIAL ARM	INNOVATIVE MODEL #7000	IT	IT															190a	USED TO MOUNT ORDER MONITORS
192	1	INFINITY RAIL (84")	ERGOMART	IT	IT															192	
200A	3	SLIM LINE TEA DISPENSER (SHORT)	WILBUR CURTIS MODEL #TCN14040	KEC	OWN															200A	LOCATED ON ITEM #117A - ORDER (2) #TCN1404-SW AND (1) #TCN1404-US
200S	5	SLIM LINE TEA DISPENSER (SWEET)	WILBUR CURTIS MODEL #TCN040-SW	KEC	OWN															200S	
200U	3	SLIM LINE TEA DISPENSER (UNSWEET)	WILBUR CURTIS MODEL #TCN040-US	KEC	OWN															200U	
201	1	ICE CREAM CONE DISPENSER	DISPENSE-RITE MODEL #BCDS-BFL	KEC	KEC															201	
202	8	SLIM JIM TRASH CAN	RUBBERMAID MODEL #FG354060GRAY	SML	OWN															202	PROVIDED BY CLARK
202A	2	UNDER-COUNTER SLIM JIM TRASH CAN	RUBBERMAID MODEL #1971258	MWK	OWN															202A	
206	8	SOAP DISPENSER	ECOLAB MODEL #92211379	VEN	VEN															206	RE: ARCHITECTURAL SHEETS FOR DETAILS ON MOUNTING HEIGHTS AND LOCATIONS
210	1	INGREDIENT BIN	RUBBERMAID MODEL #3602-88	SML	OWN															210	PROVIDED BY CLARK
211B	5	FLY SYSTEM	GENUS COBRA MODEL #107000-00	KEC	EC	120	1	0.10	0.60		5-15P									211B	CLOCK STYLE RECEPTACLE REQUIRED
211C	3	FLY SYSTEM	GENUS FUTURA COMPACT MODEL #108100-00	KEC	EC	120	1	.03	.25		5-15P									211C	RE: ARCHITECTURAL SHEETS FOR MOUNTING DETAILS
215	1	KEY CABINET	BLOCK & CO. MODEL #101903003																	215	PROVIDED BY CFA WAREHOUSE
220	1	COAT RACK	SAFCO MODEL #x700-24in	SML	GC															220	PROVIDED BY CLARK
225	1	FAT VAT	PITCO FRIALATOR MODEL FAT VAT	SML	OWN															225	PROVIDED BY CLARK
230	4	HIGH CHAIR	RUBBERMAID MODEL #FG780508	SML	OWN															230	PROVIDED BY CLARK
240	2	BABY CHANGING STATION	RUBBERMAID	KEC	KEC															240	PROVIDED BY CFA WAREHOUSE, RE: ARCHITECTURAL SHEETS FOR DETAILS ON MOUNTING HEIGHTS AND LOCATIONS
260	2	42" BACKSHELF HOOD + 3" STANDOFF	HALTON	VEN	GC															260	HOOD SHROUD BY VENT HOOD MANUFACTURER - REFER TO SHOP DRAWINGS
261	2	42" BACKSHELF HOOD	HALTON	VEN	GC															261	HOOD SHROUD BY VENT HOOD MANUFACTURER - REFER TO SHOP DRAWINGS
266	2	74" BACKSHELF HOOD	HALTON	VEN	GC															266	HOOD SHROUD BY VENT HOOD MANUFACTURER - REFER TO SHOP DRAWINGS
267	2	96" BACKSHELF HOOD	HALTON	VEN	GC															267	HOOD SHROUD BY VENT HOOD MANUFACTURER - REFER TO SHOP DRAWINGS
269	1	ANSUL FIRE SUPPRESSION SYSTEM	HALTON	VEN	GC	120	1		VERIFY		DIRECT CONNECTION									269	REMOTE CABINET - REFER TO SHOP DRAWINGS - FED FROM CFA-T500 PANEL
270	1	ANSUL FIRE SUPPRESSION SYSTEM	HALTON	VEN	GC	120	1		VERIFY		DIRECT CONNECTION									270	LOCATED ABOVE HOOD - BEHIND CLOSURE PANEL - REFER TO SHOP DRAWINGS - FED FROM CFA-T500 PANEL
300a	1	MILKSHAKE BASE DISPENSER	KAN-PAK MODEL #CDG211	KEC	KEC	120	1		4.00		5-20P									300a	MOUNTED ON ITEM #300b
300b	1	MILKSHAKE BASE DISPENSER SHELF	ALL SOUTHERN FABRICATORS	KEC	KEC															300b	
300c	4	SINGLE-SPINDLE MIXER	HAMILTON BEACH MODEL #HMD300M-CFA	KEC	KEC															300c	MOUNTED ON ITEM #300X - FRONT MOUNT
300d	2	TOPPING DISPENSER/HOLDER	ALL SOUTHERN FABRICATORS MODEL #7200-NCH	KEC	KEC															300d	MOUNTED ON ITEM #300X - RIGHT HAND MOUNT - ORDER WITH 3FRA112
300fR	2	DOUBLE SLIMLINE COOKIE DISPENSER	EQUIPMENT TO BE REUSED/RELOCATED	KEC	KEC															300fR	MOUNTED ON ITEM #300d
300X	1	DOUBLE BARREL ICE CREAM MACHINE	TAYLOR MODEL #079333B/WDC (AIR COOLED)	KEC	KEC	208	3		19.00/15.00	1.50/1.50	15-30P/15-20P									300X	PROVIDED WITH HUBBELL HBL8432C & HBL8421C ANGLE PLUGS
301C	1	CUP DISPENSER & LID ORGANIZER	WIREWORKS MODEL #C8504WF	KEC	OWN															301C	
305	2	TEA BREWER	WILBUR CURTIS MODEL #TCTT-10000	KEC	PC	120	1	1.65	13.8		5-15P				3/8"				P-24	305	PROVIDE QUICK DISCONNECT HOSES
308	1	SINGLE COFFEE MAKER	WILBUR CURTIS MODEL #TP2S10A3140	KEC	PC	208	1	4.0	19.2		L14-30P				3/8"				P-24 @ 60" A.F.F.	308	PROVIDE QUICK DISCONNECT HOSES
308a	2	COFFEE WARMER	WILBUR CURTIS MODEL #TFT1G3040	KEC	OWN															308a	MOUNTED ON ITEM #308b - ORDER TOTAL OF (4) - (2) NOT SHOWN ON DRAWINGS
308b	1	COFFEE WARMER STAND	QUADRA TECH MODEL #CFA3QDT008	KEC	OWN															308b	
308e	1	SYRUP RACK	MONIN MODEL #P573	SML	OWN															308e	PROVIDED BY CLARK
310	4	DOUBLE LEMONADE BUBBLER	CRATHCO MODEL #CS-2D-16	KEC	KEC	120	1		8.50		5-15P									310	ORDER (1) #3CRA016 BOWL KIT AND (1) #3CRA018 BASE PER BUBBLER AND ORDER TOTAL OF (1) #3CRA021 SET OF (2) 2.4 GAL BOWLS
315W	5	10-HEAD BEVERAGE DISPENSER WITH ICE BIN	LANCER MODEL #85-23710T-111-07-CFA	KEC	VEN	115	1		10.00		5-15P/5-15P						3/4"			315W	PROVIDED WITH (2) CORDS AND PLUGS PER TOWER
316	1	CO2 TANK	CHART INDUSTRIES MODEL #CARBO-MAX 600	KEC	VEN															316	SECURE TO WALL WITH CHAIN - VENT LINE NOT TO EXCEED 100 FT - CO2 FILL BOX TO BE WITHIN 15 FT OF TANK
317	1	BEVERAGE RACK SYSTEM (6 SHELF - 6 WIDE)	PROFITMASTER MODEL #3PMD010	KEC	KEC															317	
318a	1	12-STOP WATER MANIFOLD PANEL	ELLIS ENTERPRISE MODEL #636319	KEC	PC										3/4"				P-28	318a	RE: PLUMBING SHEETS FOR DETAILS
320	5	TURBO CARBONATOR	LANCER MODEL #85-1923-03	KEC	VEN	115	1		6.2		5-20P									320	ORDER (8) #44231, (3) #44233, (8) DR. PEPPER PUMPS, & (3) #T5274SN-01
350	1	WATER FILTRATION SYSTEM - TYPE A	SELECTIVE SCIENTIFIC T1 FILTER SYSTEM MODEL #80-6203CFB-PEX	KEC	PC								3/4"							350	RE: PLUMBING SHEETS FOR DETAILS
355F	1	SENSOR FAUCET FOR DECK MOUNTED HAND SINK	T&S MODEL #EC-3100-7XF1THG	PC	PC							1/2"	1/2"						P-6	355F	PROVIDED BY HJC
359	3	WALL MOUNTED SPLASH GUARD	ATLANTA CUSTOM FABRICATORS MODEL #3ACF460	KEC	GC															359	RIGHT HAND MOUNT - 12 IN HIGH x 24 IN WIDE S/S WALL MOUNTED SIDE SPLASH WITH HEMMED EDGE
359L	2	WALL MOUNTED SPLASH GUARD	ATLANTA CUSTOM FABRICATORS MODEL #3ACF459	KEC	GC															359L	LEFT HAND MOUNT - 12 IN HIGH x 24 IN WIDE S/S WALL MOUNTED SIDE SPLASH WITH HEMMED EDGE
360	7	HAND SINK	EAGLE MODEL #YCFA-HS-0004-00	KEC	PC													1-1/2"	P-5	360	WITH SIDE MOUNTING BRACKETS
360D	1	DUMP SINK	ATLANTA CUSTOM FABRICATORS MODEL #3ACF354	KEC	PC												1 1/2"		P-5A	360D	PROVIDED WITH BASKET DRAIN AND PERFORATED SCRAP BASKET
360DF	1	FAUCET (DUMP SINK)	T&S MODEL #B-1146-CFA-VF05	PC	PC							1/2"	1/2"						P-5A	360DF	PROVIDED BY HJC
360E	1	EMERGENCY EYEWASH STATION	ACORN MODEL #Sb060-RH	PC	PC									1/2"					P-42	360E	TO BE MOUNTED TO WALL BETWEEN 33 IN AND 45 IN AFF - PROVIDED BY HJC
360F	7	SENSOR FAUCET (WALL MOUNTED HAND SINK)	TOTO MODEL #TEL165-C20E#CP	PC	PC							1/2"	1/2"						P-5	360F	PROVIDED BY HJC WITH THP3094 NOZZLE
363	1	HIGH-TEMP UPRIGHT DISHWASHER	CHAMPION MODEL #DH600T	KEC	PC	208	3		46.00	2.00	DIRECT CONNECTION		1/2"				1 1/2"		P-41C	363	PROVIDED WITH DRAIN WATER TEMPERING KIT
363C	1	CLEAN DISH TABLE	ATLANTA CUSTOM FABRICATORS MODEL #3ACF251	KEC	KEC															363C	WITH UNDERSHELF ON 5 IN CASTERS
365	1	4 COMPARTMENT UTENSIL SINK	EAGLE GROUP MODEL #YCFA 314-18-4-19.5	KEC	PC												1 1/2"			365	(4) IW - WITH (2) 18" DRAIN BOARDS - HJC TO PROVIDE (4) FISHER #22209 DRAINS W/FLAT STRAINERS
365a	1	4 COMPARTMENT SINK CHEMICAL DISPENSER	SOLIDSENSE	OWN	PC															365a	PROVIDED BY OPERATOR
365F	1	UTENSIL SINK FAUCET	T&S MODEL #B-0152-14-CRBCT & B2299-CR	PC	PC							1/2"	1/2"						P-9	365F	(2) HW, (2) CW - PROVIDED BY HJC
367	1	DOUBLE BOWL VEGETABLE PREP SINK	EAGLE GROUP MODEL #YCFA-0072-00	KEC	PC												1 1/2"			367	(2) IW - W/16" CENTER DRAIN BOARD & HOLE IN BACKSPLASH - HJC TO PROVIDE (2) FISHER #22209 DRAINS W/FLAT STRAINERS
367a	1	VEGETABLE WASH DISPENSER	ECOLAB ANTIMICROBIAL FRUIT & VEGETABLE TREATMENT	OWN	PC															367a	
367F	1	VEGETABLE PREP SINK FAUCET	T&S MODEL #B-0152-14-CRBCT	PC	PC							1/2"	1/2"						P-8	367F	PROVIDED BY HJC
367FW	1	FILTERED WATER FAUCET (WALL MOUNTED)	T&S MODEL #B-0236-CR-063X	PC	PC										1/2"				(2) P-30	367FW	(2) FW - PROVIDED BY HJC
368FW	1	FILTERED WATER FAUCET (WALL MOUNTED)	T&S MODEL #B-0599-CR	PC	PC										1"				(2) P-30	368FW	(2) FW - PROVIDED BY HJC
370	1	MOP SINK	BUILT-IN BY G.C.	GC	GC							1/2"	1/2"				3"		(2) P-7	370	SUNKEN 24"x36" - WALL @ (3) SIDES - STAINLESS STEEL WALL PANELS TO 42" A.F.F.
370a	1	MOP SINK CHEMICAL DISPENSER	SOLIDSENSE	OWN	PC															370a	
371	2	MOP BUCKET		SML	OWN															371	PROVIDED BY CLARK
380	1	ICE MACHINE	FOLLETT MODEL #HMF1410RBT	KEC	VEN	115	1	0.600	5.00		5-15P					1/2"	3/4"		P-23	380	INSTALLED ON TOP OF ICE BIN - PROVIDED WITH 6 FT CORD AND 35 FT LINE SETS
380a	2	ICE BIN SANITATION SYSTEM	BIOZONE MODEL #IZ-X-20	KEC	VEN	120	1	0.0096			5-15P									380a	INSTALLED ON WALL ABOVE ICE BIN - SHARES DUPLEX WITH (1) ICE MACHINE
380C	1	ICE MACHINE REMOTE CONDENSING UNIT	FOLLETT HORIZON ELITE	KEC	GC	208	3	3.100	14.20		DIRECT CONNECTION									380C	AIR COOLED UNIT - GC SHALL PLACE AND INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWINGS
380CD	2	ICE MACHINE REMOTE CONDENSING UNIT	FOLLETT HORIZON ELITE	KEC	GC	208	3	3.600	15.70		DIRECT CONNECTION									380CD	AIR COOLED UNIT - GC SHALL PLACE AND INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWINGS
380D	2	ICE MACHINE	FOLLETT MODEL #HMF1810RBT	KEC	VEN	115	1	0.368	5.00		5-15P					1/2"	3/4"		P-23	380D	INSTALLED ON TOP OF ICE BIN - PROVIDED WITH 6 FT CORD AND 35 FT LINE SETS
381	1	ICE BIN (30" WIDE X 64" HIGH)	FOLLETT MODEL #SG700S-30	KEC	KEC												1"			381	ORDER WITH 10 IN LEGS AND ICE PADDLE
384	1	ICE BIN (48" WIDE X 69" HIGH)	FOLLETT MODEL #SG1300S-48	KEC	KEC												1"			384	ORDER WITH 10 IN LEGS AND ICE PADDLE
400L	2	SINGLE UPRIGHT FREEZER (30" WIDE)	TRAULSEN MODEL #RLT132WUT-FHS	KEC	KEC	115	1	1.100	9.40		5-15P									400L	HINGE LEFT - PROVIDE FINISHED BACK - ORDER ON 4 5/8 IN CASTERS
404	1	UNDERCOUNTER FREEZER (27")	TRAULSEN MODEL #ULT27-ZCF-R	KEC	KEC	115	1		8.00	0.50	5-15P									404	HINGE RIGHT - ORDER ON 4 IN CASTERS
410	1	WALK-IN FREEZER	THERMOKOOL	RSUB	120	1			3.3		DIRECT CONNECTION									410	ORDER WITHOUT FLOOR - REFER TO LIGHTING PLAN
410a	1	WALK-IN FREEZER CONDENSER	THERMOKOOL MODEL #BCH0035LCACZ	KEC	GC	208	3		16.30	3.5	DIRECT CONNECTION									410a	GC SHALL INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWINGS
410b	1	WALK-IN FREEZER EVAPORATOR	THERMOKOOL MODEL #BEL0130BS6EEA	KEC	RSUB	208	1		1.50		DIRECT CONNECTION						3/4"			410b	POWER FED FROM CONDENSER
419L	1	SINGLE REFRIGERATED WORK TABLE	TRAULSEN MODEL #UHT27-ZCF	KEC	KEC	115	1	0.564	4.70	0.2	5-20P									419L	HINGE LEFT - ORDER ON 6" CASTERS WITH BACKSPLASH TOP
420	2	SINGLE UNDERCOUNTER REFRIGERATOR	TRAULSEN MODEL #UHT27-ZCF	KEC	KEC	115	1	0.564	4.70	0.2	5-20P									420	HINGE RIGHT - ORDER ON 4" CASTERS
420A	1	SINGLE UNDERCOUNTER REFRIGERATOR	TRAULSEN MODEL #UHT27-ZCF	KEC	KEC	115	1	0.564	4.70	0.2	5-20P									420A	HINGE RIGHT - ORDER ON 2 IN CASTERS
420L	2	SINGLE UNDERCOUNTER REFRIGERATOR	TRAULSEN MODEL #UHT27-ZCF	KEC	KEC	115	1	0.564	4.70	0.2	5-20P									420L	HINGE LEFT - ORDER ON 4" CASTERS
421	1	DOUBLE UNDERCOUNTER REFRIGERATOR	TRAULSEN MODEL #UHT48-ZCF-LR	KEC	KEC	115	1	0.756	6.30	0.20	5-15P									421	ORDER ON 4 IN CASTERS
422T	1	REFRIGERATED EQUIPMENT STAND (48")	TRAULSEN MODEL #TE048HT-ZCFO1	KEC	KEC	115	1	0.80	6.70	0.33	L5-15P									422T	EC TO CHANGE PLUG TO TWIST LOCK - PROVIDED W/9' CORD - ORDER ON 4" CASTERS
431	1	DOUBLE REFRIGERATED WORK TABLE	TRAULSEN MODEL #UHT48-ZCF-LR	KEC	KEC	115	1	0.756	6.30	0.20	5-15P									431	ORDER ON 6 IN CASTERS WITH BACKSPLASH TOP
440C	2	ICE BATH BREADING TABLE	DUKE MODEL #BSTA-120-US	KEC	KEC	120	1		1.00		5-15P									440C	10 FT CORD AND PLUG - LEAF INCLUDED WITH TABLE - INSTALL IF SHOWN ON PLANS
441	1	SALAD PREP TABLE	TRAULSEN MODEL #TS-090HT-ZCF01	KEC	KEC	115	1		9.0	.5	L5-15P									441	PROVIDE WITH TWIST LOCK PLUG; ORDER ON 4" CASTERS WITH PAN PKG.; SESC TO PROVIDE PAN PKG.
442WC	1	SINGLE UPRIGHT REFRIGERATOR (30" WIDE)	TRAULSEN MODEL #RH132W-ZCF16	KEC	KEC	115	1		7	0.333	5-15P									442WC	HINGE RIGHT - PROVIDE FINISHED BACK - ORDER ON 6 IN CASTERS
444D	3	DOUBLE THAWING CABINET (52" WIDE)	TRAULSEN MODEL #RE232N-ZCF02	KEC	KEC	115	1		16.00	0.5	DIRECT CONNECTION									444D	HINGE STANDARD - GC TO INSTALL LIQUID TIGHT FLEX CONDUIT - ORDER ON 6 IN CASTERS
444S	1	SINGLE THAWING CABINET (32" WIDE)	TRAULSEN MODEL #RET132EWUT-FHS	KEC	KEC	115	1		16.0	0.5	DIRECT CONNECTION									444S	HINGE RIGHT - GC TO INSTALL LIQUID TIGHT FLEX CONDUIT - ORDER ON 6 IN CASTERS
449	1	WALK-IN COOLER	THERMOKOOL	KEC	RSUB	120	1		2.4		DIRECT CONNECTION									449	ORDER WITHOUT FLOOR - REFER TO LIGHTING PLAN
449a	1	WALK-IN COOLER CONDENSER	THERMOKOOL MODEL #BCH0010MCACZ	KEC	GC	208	3		9.50	1	DIRECT CONNECTION									449a	GC SHALL INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWINGS
449b	1	WALK-IN COOLER EVAPORATOR	THERMOKOOL MODEL #BEL0095BS6AMA	KEC	RSUB	208	1	0.110	1.00		DIRECT CONNECTION						3/4"			449b	POWER FED FROM CONDENSER

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FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	07-22-22	DESIGN NOTES
4	11-02-22	HEALTH COMMENTS
5	11-14-22	CAPACITY REVISION

- For Construction -

CONSULTANT PROJECT #
DATE 11/03/22
DRAWN BY TPS

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SHEET
EQUIPMENT SCHEDULE

SHEET NUMBER
K-801

11/18/2022 10:59:52 AM BIM 360://NJ_04591_West Pond_2020.11_FSR\04591_West Pond_EQIK.rvt
60-LE-04591-K-801-EQUIPMENT SCHEDULE

ITEM NO.	QUANTITY	DESCRIPTION OF EQUIPMENT	APPROVED MANUFACTURER	FURNISHED BY	INSTALLED BY	ELECTRICAL						PLUMBING								ITEM NO.	REMARKS (ALL ITEMS BY CHICK-FIL-A UNLESS OTHERWISE NOTED)
						VOLT	PH	KW	AMP	HP	NEMA-RATING	HW	CW	TW	FW	FW2	IW	DW	ROUGH-IN		
500A	2	VERTICAL CONTACT TOASTER	ROUNDUP MODEL #VCT-2	KEC	KEC	120	1	1.8	15.0		5-15P									500A	LOCATED ON ITEM #120c - FRANKE TOASTER TABLE CIRCUITS #1 & #2
500B	1	RADIANT TOASTER	ROUNDUP MODEL #RT-2	KEC	KEC	208	1	5.5	24.0		L6-30P									500B	LOCATED ON ITEM #120c - FRANKE TOASTER TABLE CIRCUITS #3 & #4 - PROVIDED W/ TWIST LOCK PLUG
503a	1	EGG TABLE (60")	ATLANTA CUSTOM FABRICATORS MODEL #CFA-ET-501	KEC	KEC															503a	
503T	2	EGG STATION	ANTUNES MODEL #ES-600R 9300657	KEC	KEC	208	1	2.50	12.50		L6-20P									503T	PROVIDED W/6' CORD & TWIST LOCK PLUG
505Va	1	VECTOR OVEN STACKING KIT	ALTO-SHAAM MODEL #5026452	KEC	KEC															505Va	
505VLT	2	VECTOR OVEN	ALTO-SHAAM MODEL #VMC-H3H 106226	KEC	KEC	208	3	7.90	22.00		L15-30P (BY EC)									505VLT	HINGE LEFT - EC TO CHANGE PLUG TO TWIST LOCK
522	1	SINGLE OPEN FRYER	HENNY PENNY MODEL #CFE-410	KEC	KEC	208	3	22.000	62.00		PIN & SLEEVE									522	PIN & SLEEVE PROVIDED WITH EQUIPMENT AND RECEPTACLE BOX PROVIDED WITH HALTON ITEMS - (1) POWER CONNECTION PER WELL
522A	1	DOUBLE OPEN FRYER	HENNY PENNY MODEL #CFE-420	KEC	KEC	208	3	44.000	124.00		PIN & SLEEVE									522A	PIN & SLEEVE PROVIDED WITH EQUIPMENT AND RECEPTACLE BOX PROVIDED WITH HALTON ITEMS - (1) POWER CONNECTION PER WELL
523	6	PRESSURE FRYER	HENNY PENNY MODEL #PFE-500	KEC	KEC	208	3	13.500	38.00		15-50P									523	PROVIDED WITH 6 FT CORD AND PLUG
524	2	DUAL SIDE CLAMSHELL GRILL	GARLAND MODEL #CXPB12	KEC	KEC	208	3	9	24.1/28.2/23.1		15-50P									524	PROVIDED WITH 5' CORD & PLUG
550	2	DOUBLE WARMING DRAWER	STAR MODEL #3B82D000T09	KEC	KEC	120	1	0.900	7.83		5-15P									550	ON CASTERS - LOCATED UNDER ITEM #120 - FRANKE HOT HOLDING TABLE CIRCUITS #2 AND #3
560	2	FRY HOLDING STATION	BKI MODEL #FW-15BB (312007F)	KEC	KEC	120	1	1.90	15.4		5-20P									560	
560a	2	FRY CARTON DISPENSER ASSEMBLY	SAN JAMAR MODEL #WFD210 AND #WFD230	KEC	KEC															560a	ORDER MOUNTING RACK AND 4-PIECE CHUTE KIT
563D	1	DOUBLE TIER SANDWICH SLIDE	BKI MODEL #2TSM-2624R	KEC	KEC	120	1	1.09	9.13		5-15P									563D	CORD EXITS RIGHT - 6' CORD AND PLUG
563Da	1	DOUBLE TIER SANDWICH SLIDE STAND	CLAYTON FIXTURE	MWK	KEC															563Da	NOT SHOWN ON PLAN
563Sa	1	SINGLE TIER SANDWICH SLIDE STAND	CLAYTON FIXTURE	MWK	KEC															563Sa	NOT SHOWN ON PLAN
563SL	1	SINGLE TIER SANDWICH SLIDE	BKI MODEL #SM-2624L	KEC	KEC	120	1	0.548	4.56		5-15P									563SL	CORD EXITS LEFT - 6' CORD AND PLUG
564	1	VISUAL HOT HOLDING CABINET (2x4)	MERCO MODEL #MHC24SNT2T	KEC	KEC	120	1	1.32	11		5-15P									564	LOCATED ON ITEM #120a - FRANKE COLD TABLE CIRCUIT #2 - ORDER WITH LIDS/TRAY SEALS, AMBER PANS, & FALSE BOTTOMS
565C	1	FOOD COOKER/WARMER	ROUNDUP MODEL #CW-100	KEC	KEC	120	1	1.500	12.50		5-15P									565C	ORDER WITH (1) 3VOL042, (2) 3VOL043, (8) 3VOL051, AND (8) 3VOL061
570	1	COOLING RACK	ADVANCED WIRE PRODUCTS LTD MODEL #RAK-1945	KEC	KEC															570	
580	1	VISUAL HOT HOLDING CABINET	MERCO MODEL #MHC54SNT1T	KEC	KEC	120	1	2.88	24		L5-30P									580	PROVIDED W/TWIST LOCK PLUG - ORDER WITH LIDS/TRAY SEALS
581	2	DUMP CART	FRANKE CTS CART# 18008028	KEC	KEC															581	
592	1	RETHERMALIZER	PITCO MODEL #CFA-SRTE	KEC	KEC	208	3	8.000	22.00		15-30P		1/2"				1 1/4"		P-43	592	PROVIDED WITH 6' CORD AND ANGLE PLUG - WATER SUPPLY TO BE S/S BRAIDED HOSE WITH MALE QUICK CONNECT ADAPTER
600	1	MIXER	HOBART MODEL #HL200	KEC	KEC	120	1		8.0	.5	L5-20P									600	E.C. TO CHANGE PLUG TO TWIST LOCK - ORDER WITH 3HOB405, 3HOB061, 3HOB318, 3HOB319, & 3HOB058
600a	1	MIXER ROLLING CART	HOBART MODEL #HL2012	KEC	KEC															600a	ORDER ON 6" CASTERS
605	1	MOBILE CART	INTERMETRO MODEL #MW206	KEC	KEC															605	NOT SHOWN ON DRAWING; ORDER ON 5" CASTERS
607	1	COUNTER TOP LEMON JUICER	SUNKIST MODEL #J-1	KEC	KEC	115	1			.25	5-15P									607	LOCATED ON ITEM #606
622L	1	FOOD PREP TABLE	EAGLE MODEL #T2436STE-BS	KEC	KEC															622L	WITH BACKSPLASH - ORDER WITH 1 5/8" DIAMETER LEGS
631M	1	FILET TABLE (30"X30")	ATLANTA CUSTOM FABRICATORS MODEL #3ACF355	KEC	KEC															631M	WITH MARINE EDGE AND BACKSPASH ON 5 IN CASTERS
651P	4	LOCKERS	SALSBURY INDUSTRIES #64165GY-A, 77550	KEC	KEC															651P	STD. METAL LOCKER - 4-TIER, 1 WIDE - DEEP GRAY - WITHOUT LEGS
651Pa	16	LOCKER ACCESSORIES	SALSBURY INDUSTRIES #77795, 77760	KEC	KEC															651Pa	NOT SHOWN ON DRAWING; FACTORY INSTALLED LOCK W/RECESSED HASP; NAME NUMBER PLATES
654	1	WORK CHAIR	FURNITURE PROVIDER	FURN	KEC															654	
655	2	FILE CABINET	WORKPRO	KEC	KEC															655	2-DRAWER
656	1	DESK CHAIR	LORELL	KEC	OWN															656	
660	8	PAPER TOWEL DISPENSER	SAN JAMAR MODEL #T1490TBK	KEC	KEC															660	RE: ARCHITECTURAL SHEETS FOR DETAILS ON MOUNTING HEIGHTS AND LOCATIONS
661	1	MOP RACK		SML	GC															661	PROVIDED BY CLARK
665	1	TRASH CART WITH LID	RUBBERMAID MODEL #1011 AND #1028	KEC	KEC															665	
669	1	OFFICE SAFE	TIDEL MODEL TITAN	IT	IT	120	1				5-20P									669	INSTALL SAFE PER MANUFACTURER'S WRITTEN INSTRUCTIONS
670	1	SAFE	FIREKING MODEL #B2926IC-FK1	KEC	KEC															670	DIGITAL KEYPAD OUTER DOOR HINGE RIGHT
672	5	DIGITAL MENU BOARD	SAMSUNG MODEL #QM50R	IT	IT	120	1				5-15P									672	PROVIDED BY COATES
680	30	YELLOW SAFETY POST	THE PARKING ZONE MODEL #GPMP48Y SHIM	KEC	GC															680	ORDER CFA ITEM #3TPZ001 - G.C. TO INSTALL PER G.C. INSTALL GUIDE - SEE CIVIL SITE PLAN FOR PLACEMENT
680a	2	EPOXY GUN REFILL	THE PARKING ZONE MODEL #GP	KEC	GC															680a	ORDER CFA ITEM #3TPZ002 - G.C. TO USE PER G.C. INSTALL GUIDE - NOT SHOWN ON DRAWINGS
680b	30	ZINC-PLATED BASE PLATE	THE PARKING ZONE MODEL #GPPLATE	KEC	GC															680b	ORDER CFA ITEM #3TPZ003 - G.C. TO INSTALL PER G.C. INSTALL GUIDE - SEE CIVIL SITE PLAN FOR PLACEMENT
681	2	MEAL DELIVERY ZONE SIGN	CHANDLER SIGNS MODEL #CHCKA_ALIGN FLAG_SA	KEC	GC															681	ORDER CFA ITEM #3CHS002 - G.C. TO INSTALL PER G.C. INSTALL GUIDE - SEE CIVIL SITE PLAN FOR PLACEMENT
702	8	WALL MOUNT SINGLE RAIL	U-LINE MODEL #H-4681	CFA	CFA															702	SUPPORT FOR CONDIMENT BINS
712	1	DUNNAGE RACK (22"x 36")	INTERMETRO - HP2236PDMB	KEC	KEC															712	
714	3	DUNNAGE RACK (22"x 48")	INTERMETRO - HP2248PDMB	KEC	KEC															714	
734D	1	DRYING RACK (24"x48")	INTERMETRO MODEL #PR48X	KEC	KEC															734D	METROMAX - 4 SHELVES
1104a	1	FLAT PLEXIGLASS PANEL	CUSTOM FABRICATION (41-3/4"x14-3/4"x1/4")	KEC	KEC															1104a	MOUNTED BETWEEN 18X42 & 30X42 SHELVES AT VEGGIE PREP AREA W/CLIPS BY INTERMETRO
1104b	1	FLAT PLEXIGLASS PANEL	CUSTOM FABRICATION (47-3/4"x14-3/4"x1/4")	KEC	KEC															1104b	MOUNTED BETWEEN 18X48 & 30X48 SHELVES AT VEGGIE PREP AREA W/CLIPS BY INTERMETRO
1116	1	CANTILEVERED SHELVING TASK LIGHT BRACKET (60" LONG)	INTERMETRO	KEC	KEC															1116	MOUNTED ON UPPER TIER OF SHELVING UNIT FOR TASK LIGHT
1119	1	CANTILEVERED SHELVING TASK LIGHT BRACKET (90" LONG)	INTERMETRO	KEC	KEC															1119	MOUNTED ON UPPER TIER OF SHELVING UNIT FOR TASK LIGHT
1121G	1	TRAY SLIDES (21" DEEP)	INTERMETRO	KEC	KEC															1121G	METROSEAL GRAY - INSTALLED BETWEEN TOP TWO SHELVES OF SHELVING UNIT IN COOLER
1133C	4	PULL OUT WORK SURFACE (18"x42")	INTERMETRO MODEL #SL-POW2148-42	KEC	KEC															1133C	MOUNTED UNDERNEATH 21X48 CANTILEVERED SHELF
1141F	5	VERTICAL SHELF DIVIDER (8" HIGH X 18" DEEP)	INTERMETRO	KEC	KEC															1141F	MOUNTED ON 12" CENTERS AT FOOD PREP AREA - NOT SHOWN ON PLAN
1204	1	CANTILEVERED SHELVING (90" VEGGIE PREP KIT)	INTERMETRO	KEC	KEC															1204	METROSEAL GRAY - WITH 86" UPRIGHTS, 2 TIERS, & SHELF DIVIDERS
3 1212C	1	CANTILEVERED SHELVING (2136 CATERING WORKSTATION KIT)	INTERMETRO	KEC	KEC															1212C	METROSEAL GRAY - WITH 86" UPRIGHTS, 21x36 TOP TIER, 18x36 SECOND TIER, 18" DEEP SHELF DIVIDERS, 21x36 WORK SURFACE, & (2) 21x36 UNDERSHELVES
1214C	1	CANTILEVERED SHELVING (2148 CATERING WORKSTATION KIT)	INTERMETRO	KEC	KEC															1214C	METROSEAL GRAY - WITH 86" UPRIGHTS, 21x48 TOP TIER, 18x48 SECOND TIER, 18" DEEP SHELF DIVIDERS, 21x48 WORK SURFACE, & (2) 21x48 UNDERSHELVES
1215C	1	CANTILEVERED SHELVING (2154 CATERING WORKSTATION KIT)	INTERMETRO	KEC	KEC															1215C	METROSEAL GRAY - WITH 86" UPRIGHTS, 21x54 TOP TIER, 18x54 SECOND TIER, 18" DEEP SHELF DIVIDERS, 21x54 WORK SURFACE, & (2) 21x54 UNDERSHELVES
3 1222ND	1	CANTILEVERED SHELVING (3036 DELIVERY WORKSTATION KIT)	INTERMETRO	KEC	KEC															1222ND	METROSEAL GRAY - WITH 86" UPRIGHTS, 30x36 TOP TIER, 18x36 SECOND TIER, 30x36 WORK SURFACE
1241A	1	CANTILEVERED SHELVING (3030 OVERHEAD ADD)	INTERMETRO	KEC	KEC															1241A	METROSEAL GRAY - WITH 86" UPRIGHT, 30x30 TOP TIER, 18x30 SECOND TIER, & 18" DEEP SHELF DIVIDER
1246S	1	CANTILEVERED SHELVING (3060 OVERHEAD KIT)	INTERMETRO	KEC	KEC															1246S	METROSEAL GRAY - WITH 86" UPRIGHTS & 30x60 TOP TIER
1252H	1	CANTILEVERED SHELVING (5T 1836 DRY STORAGE KIT)	INTERMETRO	KEC	KEC															1252H	METROSEAL GRAY - WITH 86" UPRIGHTS & (5) 18x36 WIRE SHELVES
1262A	1	CANTILEVERED SHELVING (4T 2136 DRY STORAGE ADD)	INTERMETRO	KEC	KEC															1262A	METROSEAL GRAY - WITH 76" UPRIGHT & (4) 21x36 WIRE SHELVES
1263H	1	CANTILEVERED SHELVING (5T 2142 DRY STORAGE KIT)	INTERMETRO	KEC	KEC															1263H	METROSEAL GRAY - WITH 86" UPRIGHTS & (5) 21x42 WIRE SHELVES
1263HA	2	CANTILEVERED SHELVING (5T 2142 DRY STORAGE ADD)	INTERMETRO	KEC	KEC															1263HA	METROSEAL GRAY - WITH 86" UPRIGHT & (5) 21X42 WIRE SHELVES
1264	3	CANTILEVERED SHELVING (4T 2148 DRY STORAGE KIT)	INTERMETRO	KEC	KEC															1264	METROSEAL GRAY - WITH 76" UPRIGHTS & (4) 21x48 WIRE SHELVES
1264A	2	CANTILEVERED SHELVING (4T 2148 DRY STORAGE ADD)	INTERMETRO	KEC	KEC															1264A	METROSEAL GRAY - WITH 76" UPRIGHT & (4) 21x48 WIRE SHELVES
1264H	2	CANTILEVERED SHELVING (5T 2148 DRY STORAGE KIT)	INTERMETRO	KEC	KEC															1264H	METROSEAL GRAY - WITH 86" UPRIGHTS & (5) 21x48 WIRE SHELVES
1283WH	1	CANTILEVERED SHELVING (5T 2142 WALK-IN KIT WITH FEET)	INTERMETRO	KEC	KEC															1283WH	METROSEAL GRAY - WITH 86" UPRIGHTS, (5) 21x42 WIRE SHELVES, & FLANGED FEET
1300d	4	VERTICAL SHELF DIVIDER (21" HIGH X 24" DEEP)	INTERMETRO MODEL #DD24K4-21H	KEC	KEC															1300d	METROSEAL GRAY- MOUNTED TO SHELF - NOT SHOWN ON PLAN
1305	1	FLOOR SHELF UNIT (74" POST, 14"x54")	INTERMETRO	KEC	KEC															1305	METROSEAL GRAY - 4 SHELVES
1320FJ	1	JUICER WORK TABLE (18x24)	INTERMETRO	KEC	KEC															1320FJ	WITH (2) SOLID SHELVES AND 27-1/2 IN LEGS - ORDER (2) 1824FS AND (4) 27PK4
1321	2	FLOOR SHELF UNIT (74" POST, 18"x30")	INTERMETRO	KEC	KEC															1321	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1322	2	FLOOR SHELF UNIT (74" POST, 18"x36")	INTERMETRO	KEC	KEC															1322	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1323HW	2	FREEZER FLOOR SHELF UNIT (86" POST, 18"x42")	INTERMETRO	KEC	KEC															1323HW	METROSEAL GRAY - (1) 1842NK4, (4) DD9807B, (4) 86PK4, & (4) 9993S
1324	1	FLOOR SHELF UNIT (74" POST, 18"x48")	INTERMETRO	KEC	KEC															1324	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1324HW	1	FREEZER FLOOR SHELF UNIT (86" POST, 18"x48")	INTERMETRO	KEC	KEC															1324HW	METROSEAL GRAY - (1) 1848NK4, (4) DD9807C, (4) 86PK4, & (4) 9993S
1331	2	FLOOR SHELF UNIT (74" POST, 24"x30")	INTERMETRO	KEC	KEC															1331	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1331H	1	FLOOR SHELF UNIT (86" POST, 24"x30")	INTERMETRO	KEC	KEC															1331H	METROSEAL GRAY - 3 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1332	4	FLOOR SHELF UNIT (74" POST, 24"x36")	INTERMETRO	KEC	KEC															1332	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1332FJ	1	JUICER WORK TABLE (24x36)	INTERMETRO	KEC	KEC															1332FJ	WITH (2) SOLID SHELVES AND 27-1/2 IN LEGS - ORDER (2) 2436FS AND (4) 27PK4
1333	1	FLOOR SHELF UNIT (74" POST, 24"x42")	INTERMETRO	KEC	KEC															1333	METROSEAL GRAY - 4 SHELVES
1333N	1	FLOOR SHELF UNIT (74" POST, 24"x42")	INTERMETRO	KEC	KEC															1333N	METROSEAL GRAY - (3) 2442NK4; (4) 74PK4;(1) SF54N3K4
1334	1	FLOOR SHELF UNIT (74" POST, 24"x48")	INTERMETRO	KEC	KEC															1334	METROSEAL GRAY - 2 SHELVES ABOVE DUNNAGE SHELF & 1 SHELF BELOW DUNNAGE SHELF
1334B	3	FLOOR SHELF UNIT (74" POST, 24"x48")	INTERMETRO	KEC	KEC															1334B	METROSEAL GRAY - 3 SHELVES & BOTTOM DUNNAGE SHELF - LOCATED IN REFUSE ENCLOSURE STORAGE ROOM
1341U	1	GEN3 KIT (UTILITY)	INTERMETRO	KEC	KEC															1341U	METROSEAL GRAY - (1) 24"x48" SHELF + GEN3 COMPONENTS, (1) 48" GRID + UTILITY ACCESSORIES - SEE INTERIOR ELEVATIONS FOR MOUNTING INFO.
1341V	1	GEN3 KIT (VEGGIE PREP)	INTERMETRO	KEC	KEC															1341V	METROSEAL GRAY - (1) 24"x48" SHELF + GEN3 COMPONENTS, (1) 48" GRID + VEGGIE PREP ACCESSORIES - SEE INTERIOR ELEVATIONS FOR MOUNTING INFO.
1352F	2	GEN3 SOLID SHELF (14"x36")	INTERMETRO	KEC	KEC															1352F	SOLID - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1371F	2	GEN3 SOLID SHELF (18"x30")	INTERMETRO	KEC	KEC															1371F	SOLID - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
3 1372	1	GEN3 SHELF (18"x36")	INTERMETRO	KEC	KEC															1372	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
4 1372F	1	GEN3 SOLID SHELF (18"x36")	INTERMETRO	KEC	KEC															1372F	SOLID - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1373F	2	GEN3 SOLID SHELF (18"x42")	INTERMETRO	KEC	KEC															1373F	SOLID - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1374	3	GEN3 SHELF (18"x48")	INTERMETRO	KEC	KEC															1374	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
3 1381	4	GEN3 SHELF (24"x30")	INTERMETRO	KEC	KEC															1381	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
4 1382	6	GEN3 SHELF (24"x36")	INTERMETRO	KEC	KEC															1382	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1382I	1	GEN3 INVERTED SHELF KIT (24"x36")	INTERMETRO	KEC	KEC															1382I	METROSEAL GRAY - (1) 24"x36" SHELF, (1) 40" TRACK, (2) 12" UPRIGHTS, (2) INVERTED BRACKETS - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
4 1383	4	GEN3 SHELF (24"x42")	INTERMETRO	KEC	KEC															1383	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1383I	3	GEN3 INVERTED SHELF KIT (24"x42")	INTERMETRO	KEC	KEC															1383I	METROSEAL GRAY - (1) 24"x42" SHELF, (1) 56" TRACK, (2) 12" UPRIGHTS, (2) INVERTED BRACKETS - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
4 1384	3	GEN3 SHELF (24"x48")	INTERMETRO	KEC	KEC															1384	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
1384I	4	GEN3 INVERTED SHELF KIT (24"x48")	INTERMETRO	KEC	KEC															1384I	METROSEAL GRAY - (1) 24"x48" SHELF, (1) 56" TRACK, (2) 12" UPRIGHTS, (2) INVERTED BRACKETS - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION
4 1386	1	GEN3 SHELF (24"x60")	INTERMETRO	KEC	KEC															1386	METROSEAL GRAY - SEE INTERIOR ELEVATIONS FOR MOUNTING INFORMATION

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30349-2998

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Foodservice Equipment, Supplies and Design

CHICK-FIL-A
WEST POND FSU

320 US HIGHWAY 9 N
WOODRIDGE, NJ 07095-1004

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
3	07-22-22	DESIGN NOTES
4	11-02-22	HEALTH COMMENTS

- For Construction -

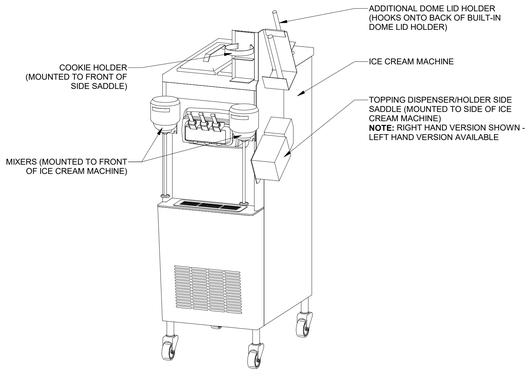
CONSULTANT PROJECT #
DATE 11/03/22
DRAWN BY TPS

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SHEET
EQUIPMENT SCHEDULE

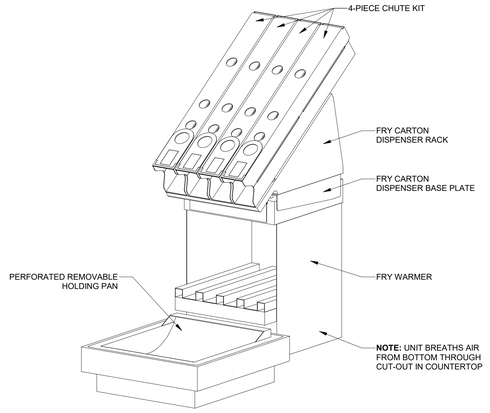
SHEET NUMBER
K-802

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60-LE-04591-K-802-EQUIPMENT SCHEDULE

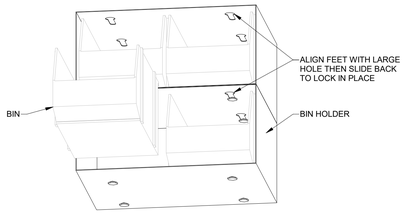


1 ICE CREAM MACHINE & ACCESSORIES
SCALE: N.T.S.

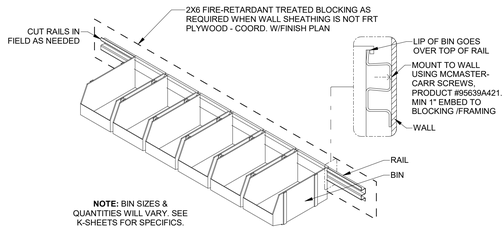
NOTE:
- MACHINE & PAN HOOK TOGETHER TO FORM ONE UNIT
- HOT AIR PASSES FROM BASE OF MACHINE TO INSERT PAN, HEATING THE UNDERSIDE OF THE PERFORATED PAN
- CUT-OUTS REQUIRED FOR INSERT PAN AND BOTTOM BREATHING AREA OF PACKAGE CHUTE



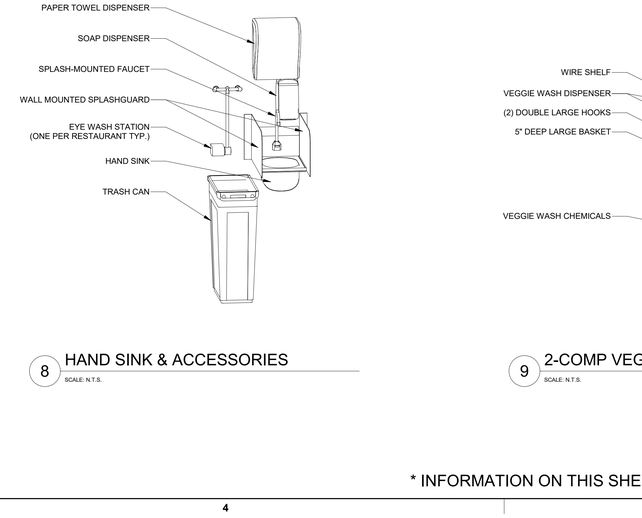
2 FRY PACKAGING & FRY DUMP
SCALE: N.T.S.



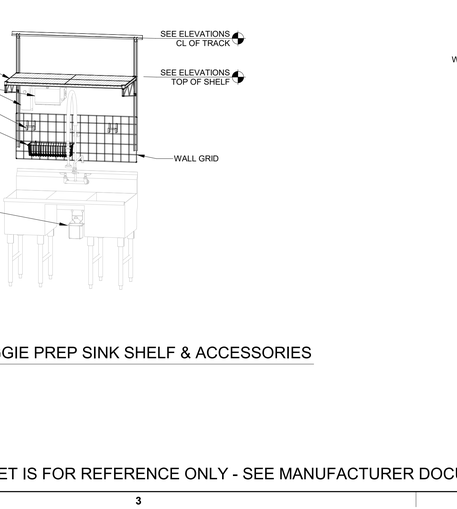
3 BIN HOLDER WITH BINS
SCALE: N.T.S.



4 RAIL & BINS
SCALE: N.T.S.



5 MILKSHAKE BASE DISPENSER & SHELF
SCALE: N.T.S.

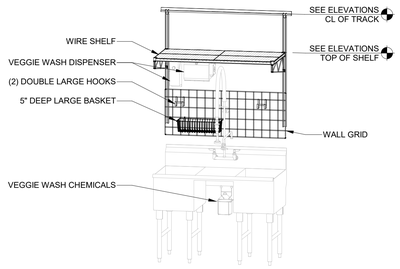


6 TEA SHELF
SCALE: N.T.S.



7 KPS ARM
SCALE: N.T.S.

8 HAND SINK & ACCESSORIES
SCALE: N.T.S.



9 2-COMP VEGGIE PREP SINK SHELF & ACCESSORIES
SCALE: N.T.S.

10 4 COMP UTILITY SINK SHELVES & ACCESSORIES
SCALE: N.T.S.

* INFORMATION ON THIS SHEET IS FOR REFERENCE ONLY - SEE MANUFACTURER DOCUMENTATION FOR FINAL INSTALLATION INSTRUCTIONS AND OTHER DETAILS

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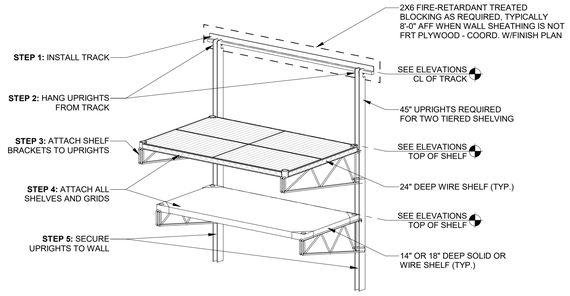
CONSULTANT PROJECT #
DATE 01/24/2022
DRAWN BY TPS

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SHEET
KITCHEN DETAILS

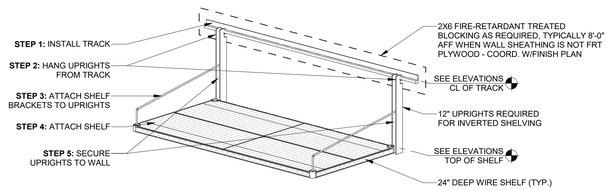
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60-LE-04591-K-901-KITCHEN DETAILS



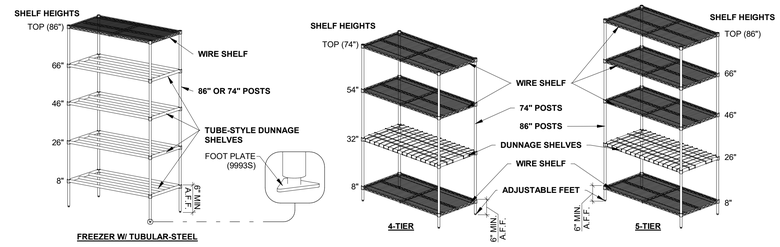
1 SHELVING INSTALL DETAIL: WALL MTD.

SCALE: N.T.S.



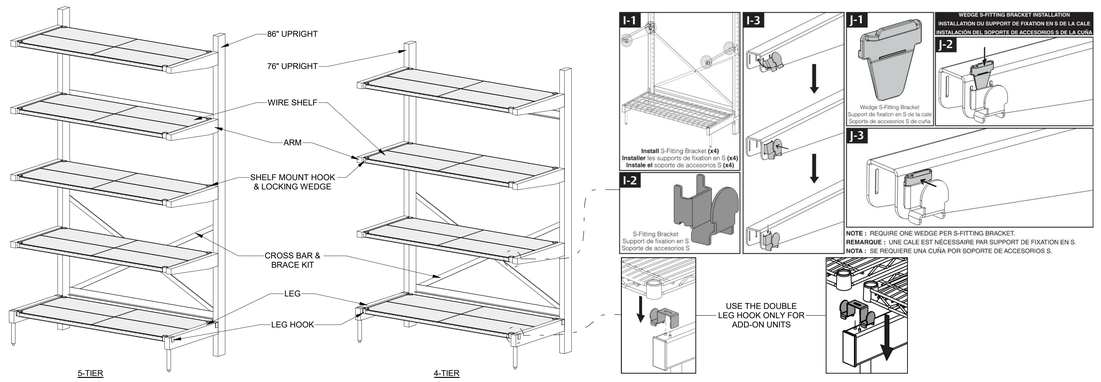
2 SHELVING INSTALL DETAIL: WALL MTD. - INVERTED

SCALE: N.T.S.



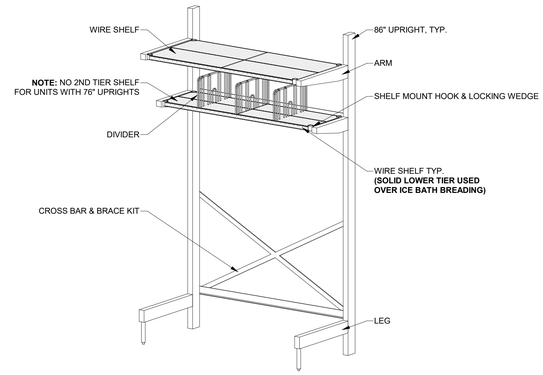
3 SHELVING DETAIL: FLOOR SHELVES

SCALE: N.T.S.



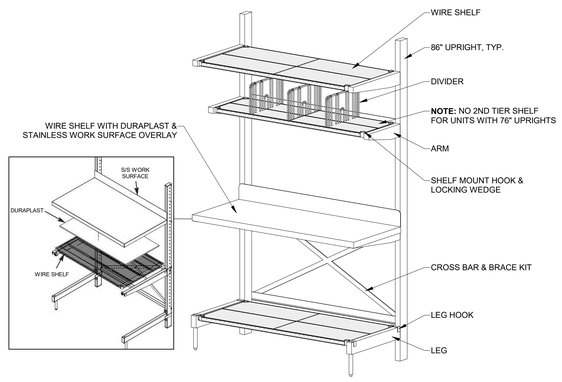
4 CANTILEVER - DRY STORAGE

SCALE: N.T.S.



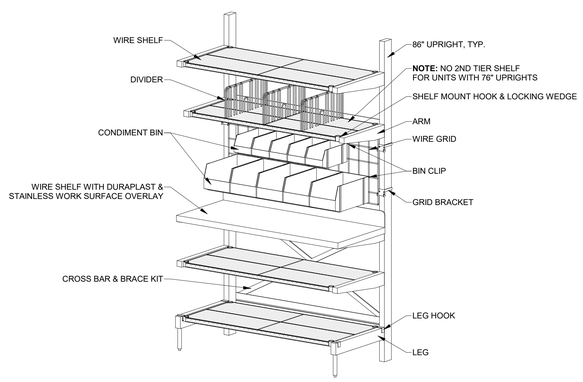
5 CANTILEVER SHELVING - OVERHEAD

SCALE: N.T.S.



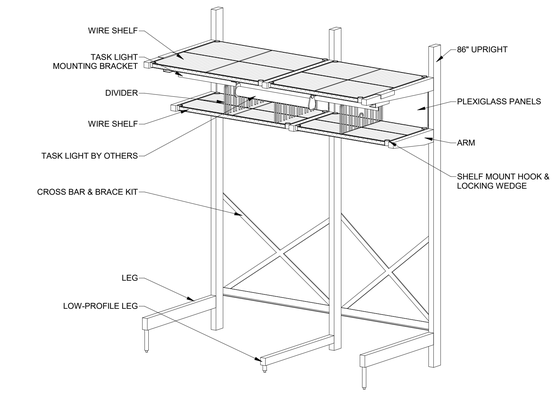
6 CANTILEVER SHELVING - WORK SURFACE

SCALE: N.T.S.



7 CANTILEVER SHELVING - CATERING WORKSTATION

SCALE: N.T.S.



8 CANTILEVER SHELVING - VEGGIE PREP

SCALE: N.T.S.

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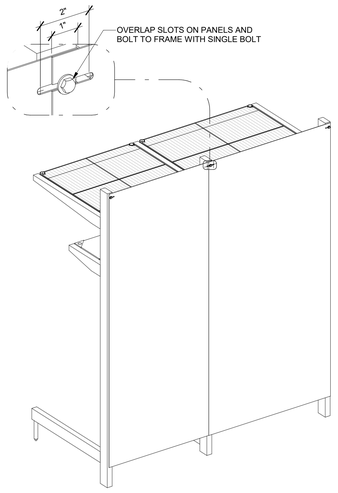
CONSULTANT PROJECT #
DATE 01/24/2022
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SHEET
KITCHEN DETAILS

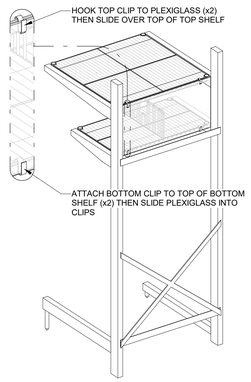
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K-902

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60-LE-04591-K-902-KITCHEN DETAILS



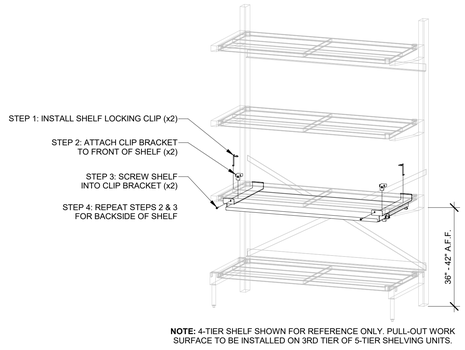
1 STAINLESS STEEL PANELS

SCALE: N.T.S.



2 PLEXIGLASS PANELS

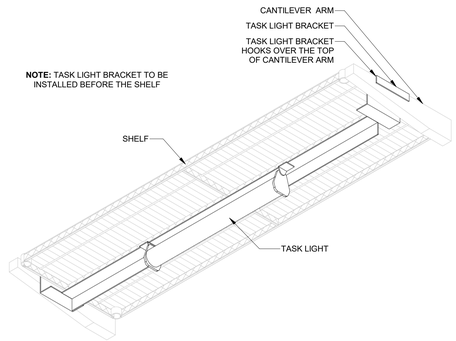
SCALE: N.T.S.



NOTE: 4-TIER SHELF SHOWN FOR REFERENCE ONLY. PULL-OUT WORK SURFACE TO BE INSTALLED ON 3RD TIER OF 5-TIER SHELVING UNITS.

3 PULL-OUT SHELF

SCALE: N.T.S.



4 TASK LIGHT

SCALE: N.T.S.

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SHEET
KITCHEN DETAILS

SHEET NUMBER
K-903

1/24/2022 2:44:22 PM BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_EQK.rvt
60-LE-04591-K-903-KITCHEN DETAILS

FLOOR PLAN KEY	ELEVATION TAG	DECOR TAG
	...	1

WALL/ QUEUE KEY	STEEL LOW WALL, BY CHI 4.5" BASE PLATE	STEEL FULL HEIGHT WALL, BY CHI 2.5" DEPTH	STREAMLINE, QUEUE, BY CHI 2.5" RAIL DEPTH	STREAMLINE, QUEUE, BY CHI 2.5" RAIL + PLATES	REFER TO ARCHITECTURAL PLAN FOR INTERIOR GC BUILT PARTITION TYPES/ DETAILS.
	BOLT DOWN	*BOLT DOWN*	*CORED*	*BOLT DOWN*	WALL KEY REFERS TO CHI MANUF. PRODUCT ONLY.

SEATING & TABLE SCHEDULE (LRG)

TABLE TOP STYLE	TABLE TOP QUANTITY	SEAT QUANTITY
2-TOP	8	16
4-TOP	15	60
6-TOP	1	6
	24	82

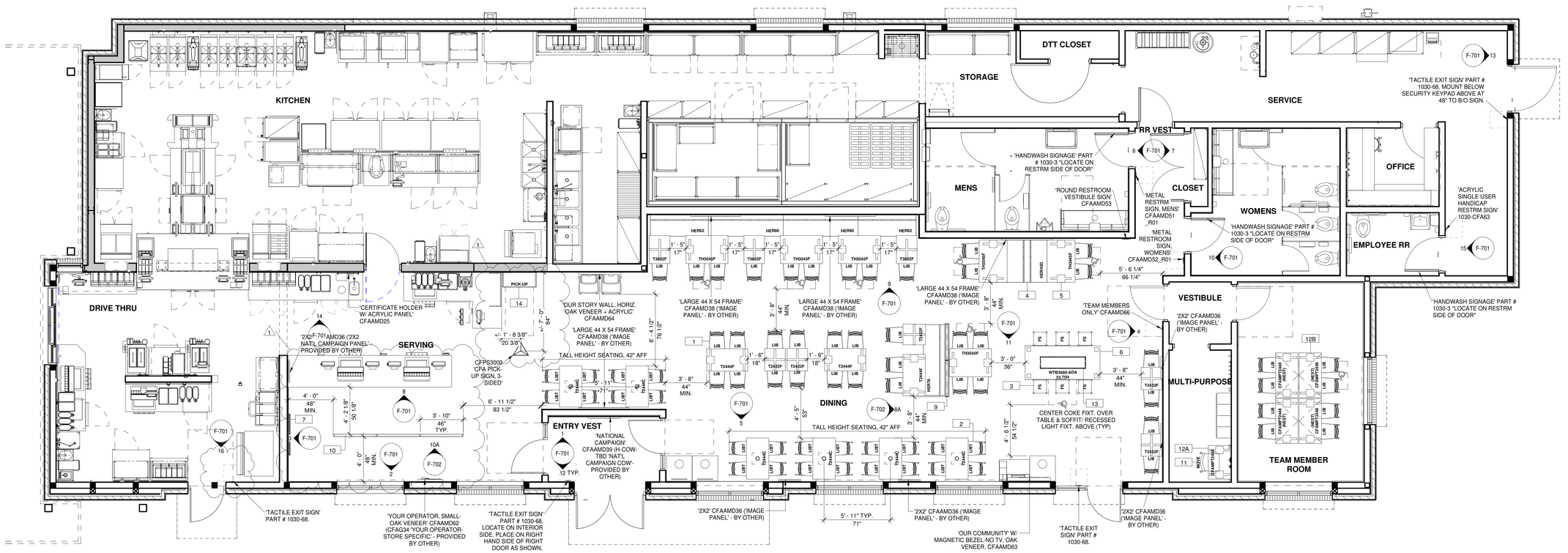
SEATING RATIOS

SEATING TO TABLE RATIO: 82 / 24 = 3.4
ACCESSIBLE TABLE RATIO: 5
NUMBER OF PARTIES: 23

STEEL KEY

	CORE-DRILLED SYMBOLS	GENERIC CORE	12"x12" PLATE CORE	12"x12" PLATE (OFFSET)	1x3 STEEL	1x3 STEEL (OFFSET)	BOLT DOWN SYMBOLS	GENERIC BOLT DOWN	12"x12" PLATE	12"x12" PLATE (OFFSET)	1x3 STEEL	1x3 STEEL (OFFSET)	FREESTANDING SYMBOLS	X-BASE	BI-POD

NOTE: THIS KEY REPRESENTS GENERAL STEEL SYMBOLS. REFERENCE PROJECT FOR PRODUCT SPECIFICATIONS/ STEEL TYPES.

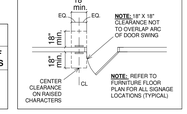


C1 FURNITURE FLOOR PLAN -LRG
1/4" = 1'-0"

INTERNATIONAL BUILDING CODE
ACCESSIBLE WHEELCHAIR SPACES

CAPACITY OF SEATING IN ASSEMBLY AREAS	MINIMUM NUMBER OF WHEELCHAIR SPACES
4 TO 25	1
26 TO 50	2
51 TO 100	4
101 TO 300	5

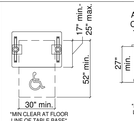
TACTILE SIGNAGE
TYP. LOCATION / CLEARANCE OF TACTILE SIGNS AT DOORS (N.T.S.)



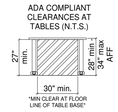
ACCESSIBILITY KEY

THESE PLANS, AS DRAWN, COMPLY WITH ALL APPLICABLE LAWS, REGULATIONS OR RULES OF ANY LOCAL, COUNTY, STATE, FEDERAL, AND OTHER GOVERNMENTAL AUTHORITY AND ANY BUREAU OR DEPARTMENT THERE OF, WHICH MAY BE APPLICABLE INCLUDING, BUT NOT LIMITED TO THE AMERICANS WITH DISABILITIES ACT AND THE REGULATIONS THERE UNDER.

TABLE CLEARANCES (N.T.S.)



ADA COMPLIANT CLEARANCES AT TABLES (N.T.S.)



MANEUVERING CLEARANCES AT DOORS (N.T.S.)



IMPORTANT NOTE: NOT ALL DOOR CLEARANCE CONDITIONS ARE SHOWN IN THIS DIAGRAM.

Chick-fil-A

STORE #:	04591	BLDG SHELL:	P13 LE LRG
LOCATION:	320 US HIGHWAY 9 N WOODBRIDGE, NJ		
NICKNAME:	WEST POND FSU		
DESIGN:	JS	FDD SET: ---	CHECKED: AMM
PROJECT MGR:	ALLISON MARSH		
SALES MGR:	JULIA WOODWARD		
SET ISSUED DATE:	01/24/2022		
DRAWING TITLE:	FURNITURE FLOOR PLAN		

Project Contacts

PLEASE CONTACT ONE OF THE FOLLOWING CHI TEAM MEMBERS TO ADDRESS CONCERNS YOU MAY HAVE:

CHARTER HOUSE HOLDINGS, LLC
200 N. Franklin Street | Zeeland, MI 49464
Phone: 616.399.6000 | Fax: 616.796.1199

Regional Sales Manager: Julia Woodward
Phone: 404.784.2960
Email: cfa@charter-house.com

Project Management Team:
Allison Marsh Phone: 616.796.1159

Customer Service Inquiries:
Phone: 616.796.1020

CHI Project Log

DATE	#	DESCRIPTION	INITIALS
01.24.22		DRAWING SET ISSUED	JS
08.29.22	1	REVISED PERMIT + CONSTRUCTION	MM
00.00.00	2	---	---
00.00.00	3	---	---
00.00.00	4	---	---
00.00.00	5	---	---
00.00.00	6	---	---
00.00.00	7	---	---

FURNITURE SHEET INDEX

Sheet Number	Sheet Name
F-201	FURNITURE FLOOR PLAN
F-211	FURNITURE CORE DRILL PLAN
F-701	DECOR ELEVATIONS
F-702	FURNITURE PRODUCT DETAILS

CONDIMENTS AND TRASH ARE NOTED FOR SPACE PLANNING PURPOSES. EXACT MODELS AND DETAILS OF THOSE ITEMS TO BE DETERMINED BY THE MILLWORK PROVIDER, CLAYTON FIXTURES (CFX).

BUILDING SHELL USED FOR FURNITURE PLANS PROVIDED BY SITE ADAPT ARCHITECT.
VERIFY DINING ROOM DIMENSIONS FOR FURNITURE & MESSAGING.

SEATING LAYOUT PROVIDED BY ARCHITECT. ARCHITECT IS RESPONSIBLE FOR SEATING PLAN MEETING CODE REQUIREMENTS (LOCAL OR OTHER)

SEATING & DECOR KEY

1	LIBRARY CHAIR, STANDARD	8	NOT USED
2	LIBRARY CHAIR, TALL	9	STEEL LOW WALL
3	FARM STOOL - 22" HEIGHT	10	STREAMLINE QUEUE
4	HERITAGE BOOTH/ BANQUETTE	11	STEELCASE MOVE CHAIR
5	TABLES (TYP)	12	MULTI-PURPOSE TABLE
6	GATHERING TABLE, 6-TOP *ACCESSIBLE*	13	COKE FIXTURE
7	BRAND ICON, ONE-SIDED (44" X 44")	14	PICK-UP SHELF

General Contractor Notes & Information

*CHARTER HOUSE HOLDINGS, L.L.C. / CHARTER -HOUSE INNOVATIONS / CHI

GENERAL CONSTRUCTION

1. ALL WORK, CONSTRUCTION, AND MATERIALS SHALL COMPLY WITH ALL PROVISIONS OF THE INTERNATIONAL BUILDING CODE &/OR CURRENT APPLICABLE GOVERNING CODES ALONG WITH RULES, REGULATIONS, AND ORDINANCES GOVERNING THE PLACE OF CONSTRUCTION.
2. IT IS THE RESPONSIBILITY OF ALL PARTIES SUPPLYING LABOR OR MATERIAL OR BOTH, TO BRING TO THE ATTENTION OF THE PROJECT MANAGER & OWNER ANY DISCREPANCIES OR CONFLICT BETWEEN THE CODE REQUIREMENTS AND THESE PLANS.
3. THE APPLICABLE CODES SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO: THE UNIFORM BUILDING CODE, BOCA NATIONAL BUILDING CODE, UNIFORM PLUMBING CODE, UNIFORM ELECTRICAL CODE, UNIFORM MECHANICAL CODE, AND THE UNIFORM FIRE CODE.
4. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WORK & MATERIALS IN ACCORDANCE WITH ALL LOCAL AND/OR CITY BUILDING CODES.
5. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL AMERICANS WITH DISABILITIES ACT GUIDELINES, TO INCLUDE BUT NOT LIMITED TO TABLE TOP/BASE INSTALLATIONS, AISLE WAY CLEARANCES, AND QUEUE LINE AREA CLEARANCES.
6. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED BUILDING PERMITS.
7. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COPYING & DISTRIBUTING CHARTER-HOUSE PLANS & DOCUMENTS TO ALL SUBCONTRACTORS INVOLVED.

DELIVERY OF PRODUCT

1. DAMAGED PRODUCT UPON RECEIPT MUST BE DOCUMENTED ON THE BILL OF LADING. MUST CONTACT PROJECT MANAGER IMMEDIATELY (616) 399-6000. FAILURE TO DOCUMENT DAMAGE & CONTACT CHI WILL ABSOLVE CHI FROM RESPONSIBILITY.
2. INSPECT THE EXTERIOR OF ALL PACKAGING & VERIFY BILL OF LADING. *CHECK FOR TEARS, CRUSHING, HOLES, ETC.....* COMPARE SHRINK-WRAP OR TAPE & WATCH FOR MULTIPLE KINDS OF WRAP OR DIFFERENT TAPE ON BOXES * LISTEN FOR RATTLING OR LOOSE PARTS DURING UNLOADING * WATCH FOR POSSIBLE WEIGHT DISCREPANCIES DURING UNLOADING.
3. IF YOU NOTICE ANY OF THE ABOVE, ASK FOR A JOINT INSPECTION & SPECIFY NOTATIONS ON THE CARRIER'S RECEIPT. IF THE DELIVERING PARTY REFUSES, INSIST ON A NOTATION OF WHAT YOU HAVE NOTICED & CALL THE CARRIER IMMEDIATELY UPON COMPLETING YOUR INSPECTION.
4. ALWAYS KEEP GOOD NOTES OF DATES, TIMES, AND PERSONS SPOKEN TO.
5. CONCEALED DAMAGE: * IF THE CARRIER'S RECEIPT HAS BEEN SIGNED OFF, AND DAMAGE IS NOTICED INSIDE OF THE PACKAGING, CALL THE CARRIER AND REQUEST INSPECTION IMMEDIATELY. ALSO NOTIFY YOUR CHI PROJECT MANAGER OR SHIPPING DEPT WITHIN 48 HOURS.
6. ANY OTHER CONCERNS OR QUESTIONS PLEASE CALL YOUR PROJECT MANAGER.
7. GENERAL CONTRACTOR AND/OR OWNER ARE RESPONSIBLE FOR PROTECTION OF PRODUCT WHILE IN THE PROCESS OF BEING INSTALLED. ANY PRODUCT DELIVERED IN GOOD CONDITION, BUT DAMAGED ON SITE IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND/OR OWNER.

NEW & REMODEL PROJECTS

1. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALE IN ALL CASES. DO NOT SCALE OFF PLANS. FOR ADDITIONAL DIMENSIONS CALL THE PROJECT MANAGER (616) 399-6000.
2. THESE PLANS ARE THE PROPERTY OF CHARTER HOUSE HOLDINGS, LLC. THESE PLANS MAY NOT BE REPRODUCED OR IMPLEMENTED IN ANY WAY, IN PART OR IN WHOLE, WITHOUT THE EXPRESS CONSENT OF CHI. UNAUTHORIZED USE WILL RESULT IN PAYMENT DUE FOR SERVICES RENDERED.
3. CHI REQUESTS VERIFICATION OF FIELD DIMENSIONS FROM THE GENERAL CONTRACTOR FOR THE FABRICATION OF COMMERCIAL FURNITURE, DECOR, CORE DRILL, AND SPACE PLANS WHEN FIELD DIMENSIONS CAN NOT BE ATTAINED, LATE SHIPMENTS MAY RESULT.
4. IF SPECIFIED ITEMS ARE NOT AVAILABLE, CONTACT YOUR PROJECT MANAGER AT CHI.
5. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS AT THE JOB SITE AND NOTIFY CHI OF ALL DISCREPANCIES PRIOR TO COMMENCING WORK.
6. GENERAL CONTRACTOR TO PROVIDE A MINIMUM OF 40 LBS OF FLOOR TILE GROUT TO FINISH THE CORE DRILLED HOLES.
7. WALLCOVERINGS & CHAIR RAIL MUST RETURN INTO WINDOW.
8. GENERAL CONTRACTOR WILL BE RESPONSIBLE OF DISPOSAL OF ALL PACKAGING MATERIAL FROM SEATING & DECOR PRODUCTS.
9. GENERAL CONTRACTOR TO POSITION THERMOSTAT / VOLUME CONTROL / AND OTHER LIKE ITEMS TO NOT INTERFERE WITH THE CHI DECOR.

REMODEL PROJECTS ONLY

1. IN CASES OF REMODELING, THE EXISTING SEATING, STEEL, DECOR, & WALL FINISHES ARE TO BE REMOVED BY THE OWNER AND / OR GENERAL CONTRACTOR. IT IS NOT THE RESPONSIBILITY OF CHI.
2. FLOOR / BASE TILE MUST BE IN GOOD REPAIR BEFORE ANY CORE DRILLING BEGINS.
3. ALL DIMENSIONS ARE FROM EXISTING FINISHES. PLEASE MAKE APPROPRIATE ALLOWANCES FOR ANY NEW FINISHES.
4. PLEASE CONTACT CHI CONCERNING CONFLICTS BETWEEN CHI DECOR & ELECTRICAL OR HVAC PLACEMENT.

FLOORING NOTES

1. A MINIMUM 5" CONCRETE SLAB IS REQUIRED FOR ALL CORE DRILLING.
2. ALL FLOOR & COVE BASE TILE TO BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR.
3. NEW FLOOR & BASE TILE TO BE INSTALLED AND GROUTED 48 HOURS PRIOR TO CHI PRODUCT INSTALLATION. IF DAMAGE OCCURS DUE TO INSUFFICIENT CURING TIME, REPAIRS WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
4. CHI IS NOT LIABLE FOR CORED STEEL THAT BECOMES UNSTABLE AS A RESULT OF DRILLING THROUGH A CONCRETE SLAB LESS THAN 5" THICK.
5. CHI IS NOT RESPONSIBLE FOR DAMAGE OF ANY MECHANICAL LOCATED WITHIN 5" OF THE FINISHED FLOOR.
6. COVE BASE / BULLNOSE TILE (IF REQ'D) ON ALL CHI DIVIDER WALLS TO BE SUPPLIED & INSTALLED BY THE GENERAL CONTRACTOR.

ELECTRICAL, HVAC, AND CEILING NOTES

1. USE LIGHTING LAYOUT AS A GUIDELINE ONLY. CHI WILL NOT BE HELD LIABLE FOR ADDITIONAL COSTS DUE TO ADJUSTING LIGHTING QTY'S OR LOCATIONS FOR PERSONAL PREFERENCES, VARIATIONS WITH ARCHITECTURAL PLANS, OR LOCAL CODES.
2. GC TO SUPPLY AND CONNECT ELECTRICAL PIGTAIL AT ALL CODED LOCATIONS FOR CHI PRODUCT.
3. ALL ELECTRICAL FIXTURES, WIRING, AND INSTALLATIONS TO BE UL APPROVED.
4. ALL CEILING TILES AND GRID TO BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR. IN CASE OF REMODELING THE CEILING TILE AND GRID SHOULD BE REMOVED ONLY IF REQUESTED BY THE CUSTOMER.
5. LIGHTING FIXTURES AND / OR HVAC MAY NEED TO BE RELOCATED BY GC TO ACCOMMODATE DECOR AND ELECTRICAL OR HVAC PLACEMENT. (SEE REFLECTED CEILING PLAN FOR NEW CEILING FINISH REQUIREMENTS IF APPLICABLE)
6. PLEASE CONTACT YOUR CHI PROJECT MANAGER CONCERNING ANY CONFLICTS BETWEEN PLACEMENT OF CHI DECOR ELEMENTS.
7. GENERAL CONTRACTOR TO CONTACT CONSTRUCTION ENGINEERING TO VERIFY FINAL PLACEMENT OF HVAC
8. CHI WILL INCLUDE REFLECTED CEILING PLANS WHEN (1) ADDITIONAL LIGHTING IS SPECIFIED IN DINING AREAS BEYOND THE EXISTING CONDITIONS OR BEYOND ARCHITECTURAL PLANS. (2) CHI DECOR INTERFERES WITH CEILING ELEMENT OR (3) IF CEILING IS BEING REPLACED.

SITE CONDITIONS FOR CHI DECOR INSTALLATION

1. IT IS IMPORTANT FOR THE FOLLOWING WORK TO BE COMPLETED PRIOR TO THE ARRIVAL OF CHI PRODUCT AND / OR INSTALL CREWS. THESE CONDITIONS ARE ESTABLISHED TO INSURE THAT PRODUCT IS INSTALLED MOST EFFICIENTLY (WITHOUT DAMAGE TO PRODUCT) AND UNDER SAFE CONDITIONS.
2. ALL INTERIOR WALL FINISHES TO BE COMPLETE, INCLUDING (BUT NOT LIMITED TO): WALLCOVERING, WAINSCOTING, PAINT, AND CHAIR RAIL.
3. FLOOR AND BASE TILE TO BE TILED AND GROUTED FOR A MINIMUM OF 48 HOURS PRIOR TO ARRIVAL.
4. GENERAL CONTRACTOR TO PROVIDE A MINIMUM OF 40 POUNDS OF FLOOR TILE GROUT TO FINISH THE CORE DRILLED HOLES.
5. ALL HVAC WORK TO BE COMPLETE.
6. CEILING TRACK AND TILE TO BE INSTALLED.
7. ALL WINDOWS TO BE INSTALLED IN BUILDING.
8. ELECTRICAL SERVICE TO 120V / 30 AMP CIRCUITS FOR CORE DRILLING.
9. POTABLE WATER SUPPLY.
10. OPERATING LIGHTS (ADEQUATE FOR EVENING WORK).
11. CLEAN AND OPEN WORK AREA IN DINING ROOM.
12. WASTE DUMPSTER ON-SITE.
13. FINISHED PARKING LOT OR SUBSURFACE WITH 1" OF FINISHED GRADE.
14. UNENCUMBERED AND CONTINUOUS ACCESS TO THE BUILDING.
15. GENERAL CONTRACTOR RESPONSIBLE FOR TEMPORARY POWER IF ELECTRICAL SERVICE IS UNAVAILABLE.

IMPORTANT NOTES

1. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALE IN ALL CASES.
2. THE GENERAL CONTRACTOR MUST VERIFY ALL BUILDING DIMENSIONS, EQUIPMENT, FURNITURE PLACEMENT, UTILITY LOCATIONS, AND CONDITIONS AT THE JOB SITE.
3. THE GENERAL CONTRACTOR MUST NOTIFY CHI OF ALL DISCREPANCIES AND /OR REQUIRED ADJUSTMENTS PRIOR TO STARTING WORK.
4. DO NOT SCALE OFF PLANS. CALL YOUR CHI PROJECT MANAGER TO VERIFY ANY QUESTIONABLE DIMENSIONS (616) 399-6000.
5. ALL DIMENSIONS ARE FOR DESIGN INTENT ONLY.
6. CHARTER-HOUSE HAS PREPARED THESE DOCUMENTS AS ACCURATELY AS POSSIBLE WITH THE ARCHITECTURAL INFORMATION PROVIDED. DUE TO LACK OF ACCURATE AND COMPLETE DIMENSIONED ARCHITECTURAL PLANS, OWNER UNDERSTANDS THAT ADJUSTMENTS TO THE FINAL LOCATIONS OF EQUIPMENT AND / OR FURNITURE PLACEMENT MAY BE REQUIRED AT THE OWNER'S EXPENSE DUE TO DISCREPANCIES BASED ON ACTUAL JOB SITE DIMENSIONS AND CONDITIONS.
7. REFER TO ARCHITECTURAL OR ENGINEERING DRAWINGS FOR COMPLETE AND ACCURATE DIMENSIONS OF BUILDING STRUCTURE.
8. THESE ARE CONTRACT DOCUMENTS AND THE INFORMATION THEY CONTAIN ARE THE PROPERTY OF CHARTER-HOUSE.
9. ALL CONTRACT DOCUMENTS MAY NOT BE COPIED, REPRODUCED, USED OR IMPLEMENTED IN ANY WAY, IN PART OR IN WHOLE, WITHOUT THE EXPRESS WRITTEN CONSENT OF CHARTER-HOUSE.
10. ANY UNAUTHORIZED USE OF THESE PLANS WILL RESULT IN PAYMENT DUE FOR SERVICES RENDERED BY CHARTER-HOUSE.
11. ANY DEVIATIONS FROM THESE DRAWINGS FOR ANY REASON SHALL NOT BE DONE WITHOUT CONSENT OF CHARTER-HOUSE IN ADVANCE, IN WRITING. CHARTER-HOUSE IS NOT RESPONSIBLE FOR DEVIATIONS, CHANGES, ADDITIONS, OR DELETIONS NOT REVIEWED AND APPROVED IN ADVANCE BY CHARTER-HOUSE.
12. THESE DOCUMENTS REFLECT EQUIPMENT ORDERED OF DATE SHOWN ON DRAWINGS.

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30349-2998

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CHICK-FIL-A
WEST POND FSU
320 US HIGHWAY 9 N
WOODBRIDGE, NJ 07095-1004

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR CONSTRUCTION SET

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	7/22/22	Revision 1

- For Construction -

CONSULTANT PROJECT # ####
DATE 01/24/2022
DRAWN BY JS

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SHEET
FURNITURE FLOOR PLAN

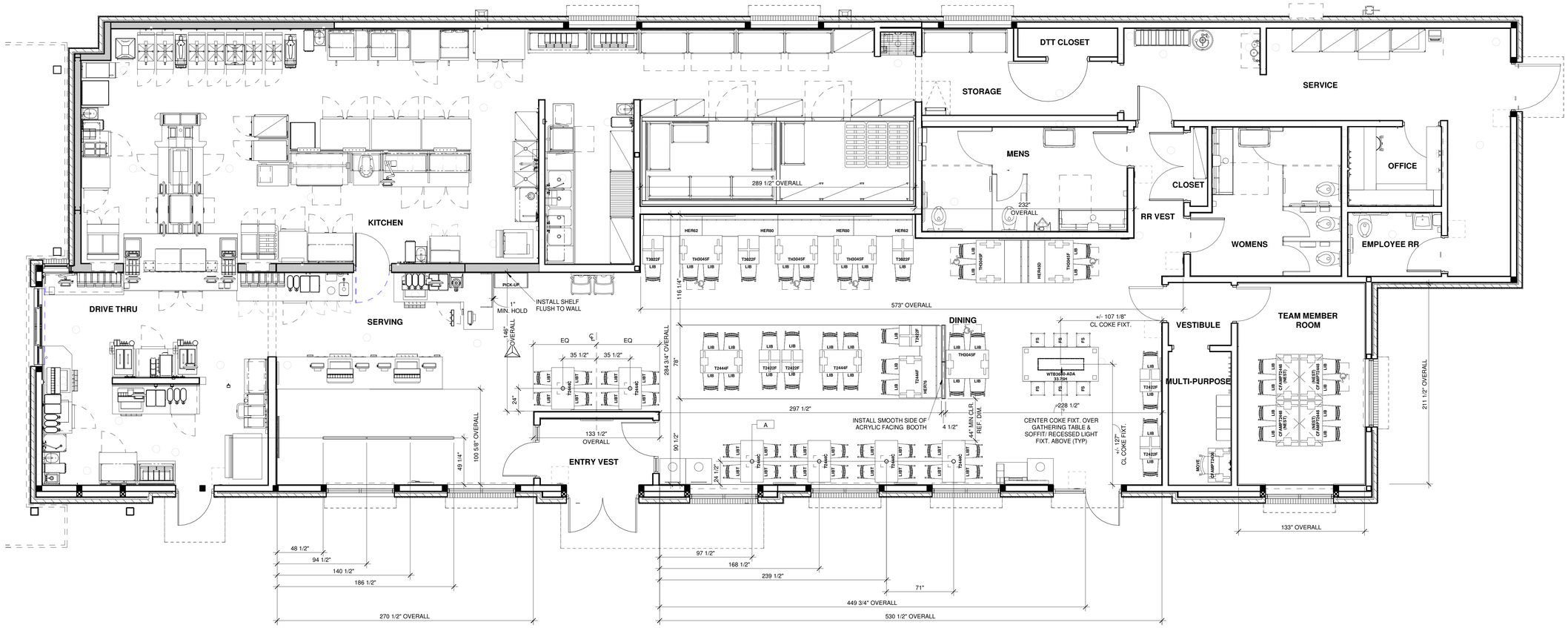
SHEET NUMBER
F-201

8/30/2022 12:22:37 PM BIM 360://NJ_04591_West Pond_2020.11_FSR/04591_West Pond_FRN.rvt
70-LE-04591-F-201-FURNITURE FLOOR PLAN

WALL/ QUEUE KEY	STEEL LOW WALL, BY CHI 4.5" BASE PLATE	STEEL FULL HEIGHT WALL, BY CHI 2.5" DEPTH	STREAMLINE, QUEUE, BY CHI 2.5" RAIL DEPTH	STREAMLINE, QUEUE, BY CHI 2.5" RAIL + PLATES	REFER TO ARCHITECTURAL PLAN FOR INTERIOR GC BUILT PARTITION TYPES/ DETAILS. WALL KEY REFERS TO CHI MANUF. PRODUCT ONLY.
	BOLT DOWN	*BOLT DOWN*	*CORED*	*BOLT DOWN*	

STEEL KEY	CORE-DRILLED SYMBOLS	GENERIC CORE	12"x12" PLATE CORE	12"x12" PLATE (OFFSET)	1x3 STEEL	1x3 STEEL (OFFSET)	BOLT DOWN SYMBOLS	GENERIC BOLT DOWN	12"x12" PLATE	12"x12" PLATE (OFFSET)	1x3 STEEL	1x3 STEEL (OFFSET)	FREESTANDING SYMBOLS	X-BASE	BI-POD

NOTE: THIS KEY REPRESENTS GENERAL STEEL SYMBOLS. REFERENCE PROJECT FOR PRODUCT SPECIFICATIONS/ STEEL TYPES.



C1 CORE DRILL PLAN -LRG
1/4" = 1'-0"

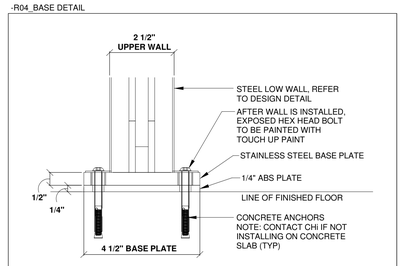
CFA TABLE STEEL	
STD. HEIGHT BI-POD FREESTANDING 4-TOP	STD. HEIGHT BI-POD FREESTANDING ADA
STD. HEIGHT X-BASE FREESTANDING 6-TOP	STD. HEIGHT BI-POD FREESTANDING ADA

CONTACT FURNITURE SUPPLIER IF TABLE SIZE IS NOT SHOWN.

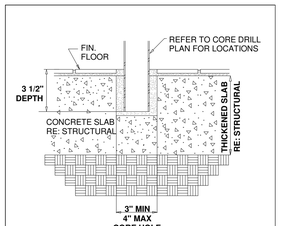
TABLE STEEL	
BAR HEIGHT 12" PLATE	A | TABLE STEEL

STEEL HEIGHT: 44.5"
SET HEIGHT: 41"
TSRBBW

-R04_BASE DETAIL



STEEL LOW WALL - BASE PLATE (BOLT DOWN)
SCALE: N.T.S



DETAIL APPLIES TO CORE DRILLED TALL TABLE STEEL AND CORE DRILLED STREAMLINE QUEUE RAIL LOCATIONS ONLY.

TYPICAL CORE HOLE DETAIL
SCALE: N.T.S

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WEST POND FSU

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WOODBRIDGE, NJ 07095-1004

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
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- For Construction -

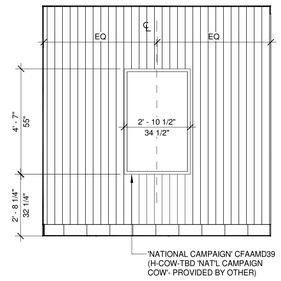
CONSULTANT PROJECT # ####
DATE 01/24/2022
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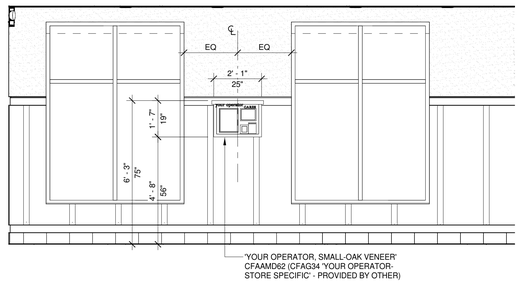
SHEET
FURNITURE CORE DRILL PLAN

SHEET NUMBER
F-211

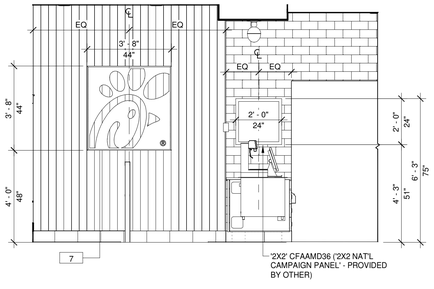
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70-LE-04591-F-211-FURNITURE CORE DRILL PLAN



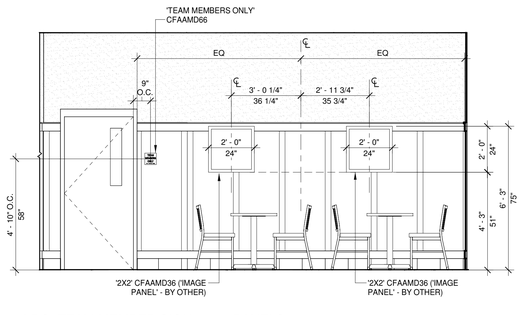
1 LRG_NATIONAL CAMPAIGN
3/8" = 1'-0"



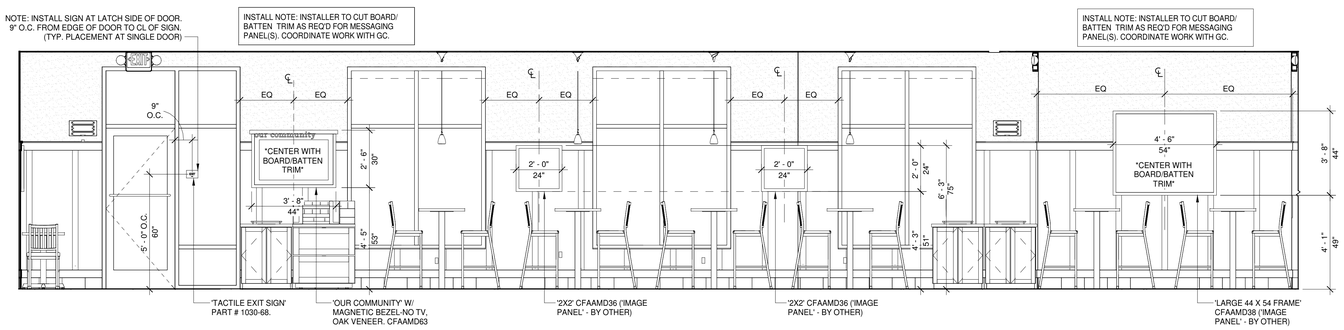
2 LRG_YOUR OPERATOR + TACTILE EXIT SIGN
3/8" = 1'-0"



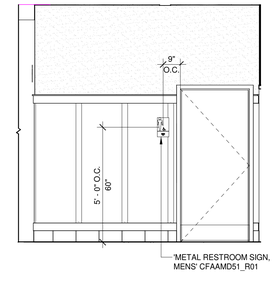
3 LRG_ BRAND ICON + 2X2 NAT'L CAMPAIGN PANEL
3/8" = 1'-0"



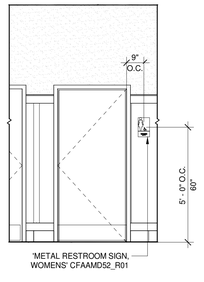
4 LRG_TEAM MEMBER SIGN & 2x2 PANELS
3/8" = 1'-0"



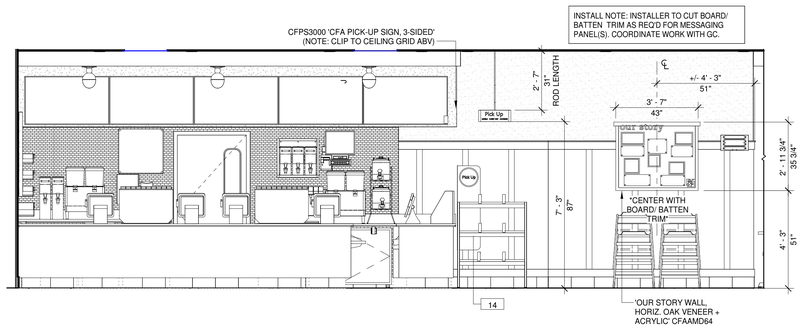
5 LRG_TACTILE EXIT SIGN (TYP) & INTERIOR MESSAGING
3/8" = 1'-0"



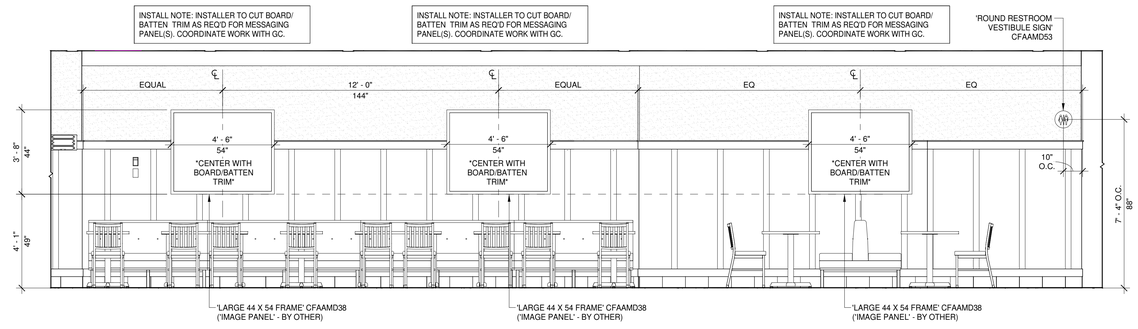
6 LRG_MENS RESTROOM SIGNAGE
3/8" = 1'-0"



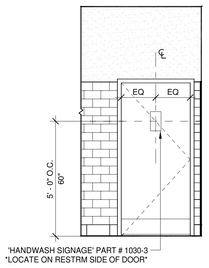
7 LRG_WOMENS RESTRM SIGNAGE
3/8" = 1'-0"



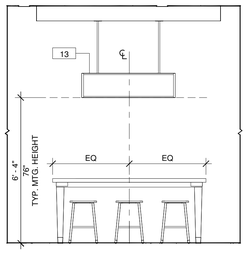
8 LRG_PICK-UP AND OUR STORY PANEL
3/8" = 1'-0"



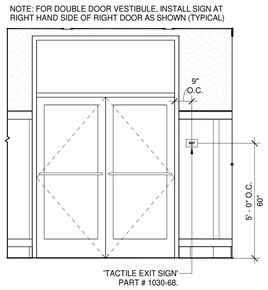
9 LRG_LARGE 44 X 54 PANELS
3/8" = 1'-0"



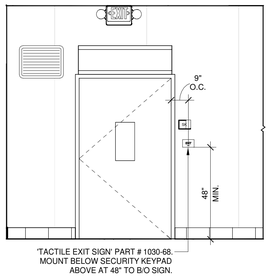
10 LRG_HANDWASH SIGN
3/8" = 1'-0"



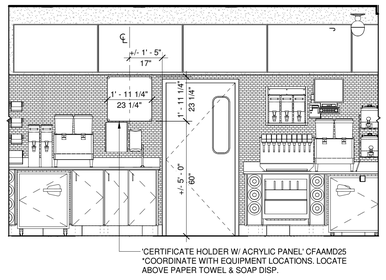
11 LRG_COKE FIXTURE
3/8" = 1'-0"



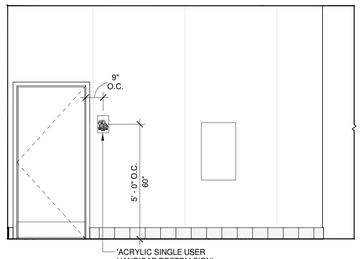
12 LRG_TACTILE EXIT SIGN AT DOUBLE DOORS (TYP)
3/8" = 1'-0"



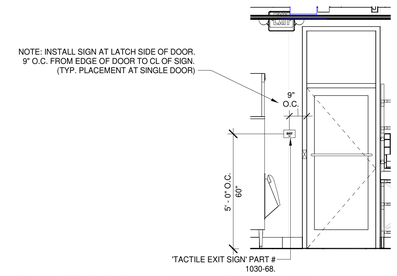
13 LRG_TACTILE EXIT SIGN AT SERVICE DOOR
3/8" = 1'-0"



14 LRG_CERTIFICATE HOLDER
3/8" = 1'-0"



15 LRG_EMPLOYEE RESTROOM SIGNAGE
3/8" = 1'-0"



16 LRG_TACTILE EXIT SIGN AT DRIVE THRU DOOR
3/8" = 1'-0"

INTERIOR MESSAGING PANELS TO GET MOUNTED DIRECTLY OVER BOARD/ BATTEN WALL FINISH AS SHOWN UNLESS NOTED OTHERWISE TO CUT UPPER HORIZONTAL TRIM & VERTICAL BOARD/ BATTEN TRIM.

REFER TO ELEVATIONS FOR INTERIOR MESSAGING, FURNITURE, AND/OR DECOR LOCATIONS ONLY. REFER TO ARCHITECTURAL SHEETS FOR ALL INTERIOR FINISH & WALL PARTITION TYPE INFORMATION.

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WOODBRIDGE, NJ 07095-1004

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
CONSTRUCTION SET

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

- For Construction -

CONSULTANT PROJECT # ####
DATE 01/24/2022
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SHEET
DECOR ELEVATIONS

SHEET NUMBER
F-701

8/30/2022 12:22:46 PM BIM 360://NJ_04591_ West Pond_2020.11_FSR\04591_ West Pond_FRN.rvt
70-LE-04591-F-701-DECOR ELEVATIONS

_FURNITURE SYSTEM SCHEDULE_LRG

Item Number	Description	Part Number	Manufacturer	Qty.	Type Comments
500241	Millwork_Low Steel Wall_78	CFAW101-78-R04	Furniture Vendor	1	Bolt Down Base Plate
500241	Millwork_Streamline Queue_3 Sections	----	Furniture Vendor	1	Core Drill Steel
Grand total: 2				2	

MATERIALS & FINISH SCHEDULE (FURNITURE & DECOR) - Heritage

05-2019

MATERIAL	CODE	MANUFACTURER	PRODUCT SPECIFICATION	SIZE	CONTACT / ADDITIONAL INFORMATION	ADDITIONAL NOTES
STEEL						
	S-1	N/A	RESOLVE SILVER METALLIC	N/A	FURNITURE SUPPLIER/ MANUF.	--
	S-2	NOT USED				
	S-3	N/A	DARK CHERRY	N/A	FURNITURE SUPPLIER/ MANUF.	
	S-4	N/A	TRI-SMOKE MINI TEX. #T1-7060	N/A	FURNITURE SUPPLIER/ MANUF.	
	S-5	N/A	ALUMINUM, BLACK	N/A	FURNITURE SUPPLIER/ MANUF.	
	S-6	N/A	TIGER 89/80419 RAL 9011-FINE TEXTURE	N/A	FURNITURE SUPPLIER/ MANUF.	
	S-7	N/A	BLACK WRINKLE	N/A	FURNITURE SUPPLIER/ MANUF.	
UPHOLSTERY						
	UPH-1	MOMENTUM	CFA COMB, JH4648A6 W/ MPC	N/A	UPHOLSTERY DISTRIBUTOR	
	UPH-2	CF STINSON	MONTANA, CFASB, SABLE BROWN (VINYL)	N/A	UPHOLSTERY DISTRIBUTOR	
	UPH-3	ARC COM	DURANGO, AC-67567 RED (VINYL)	N/A	UPHOLSTERY DISTRIBUTOR	
PLASTIC LAMINATE						
	PL-1	PIONITE	AT660, CRISSCROSS	N/A	LOCAL DISTRIBUTOR	
	PL-2	NEVAMAR	S1027T, LIBERTY RED	N/A	LOCAL DISTRIBUTOR	
	PL-3	WILSONART	4846-60, MORRO ZEPHYR	N/A	LOCAL DISTRIBUTOR	
	PL-4	FORMICA	20949-90 WHITE DRY ERASE MARKER BOARD, POLISHED	N/A	LOCAL DISTRIBUTOR	
	PL-5	NOT USED				
EDGE BAND						
	EB-1	N/A	REHAU, 309423-014/592E (DOELLKEN MULTIPLEX MATCH) -384-12	N/A	FURNITURE SUPPLIER/ MANUF.	
	EB-2	N/A	REHAU, SLATE GRAY WD91	N/A	FURNITURE SUPPLIER/ MANUF.	
DECORATIVE BOARD						
	DB-1	N/A	BALTIC BIRCH EDGE, CHI-001 CLEAR FINISH	N/A	FURNITURE SUPPLIER/ MANUF.	
ACRYLIC						
	AC-1	3-FORM	VARIA ECO-RESIN, CFA CUSTOM TEXTURE PATENT FINISH + CLEAR	N/A	FURNITURE SUPPLIER/ MANUF.	
	AC-2	CLEAR FORM	CAST WHITE 7508	N/A	FURNITURE SUPPLIER/ MANUF.	
WOOD						
	WD-1	N/A	SOLID WHITE OAK	N/A	FURNITURE SUPPLIER/ MANUF.	
GLASS						
	GL-1	NOT USED				
	GL-2	N/A	COKE GLASS - SMART GLASS JEWELRY *COKE FIXTURE*	N/A	FURNITURE SUPPLIER/ MANUF.	

GENERAL NOTES:
1. MATERIAL SPECIFICATIONS LISTED ABOVE ARE TYPICAL TO SEATING PACKAGE. NOT ALL FINISHES MAY BE USED. REFER TO FURNITURE DETAILS FOR SPECIFIC MATERAILS USED IN PROJECT.

SEATING & DECOR KEY

1	LIBRARY CHAIR, STANDARD	8	NOT USED
2	LIBRARY CHAIR, TALL	9	STEEL LOW WALL
3	FARM STOOL - 22" HEIGHT	10	STREAMLINE QUEUE
4	HERITAGE BOOTH/ BANQUETTE	11	STEELCASE MOVE CHAIR
5	TABLES (TYP)	12	MULTI-PURPOSE TABLE
6	GATHERING TABLE, 6-TOP *ACCESSIBLE*	13	COKE FIXTURE
7	BRAND ICON, ONE-SIDED (44" X 44")	14	PICK-UP SHELF

_FURNITURE SCHEDULE_LRG

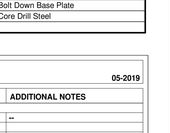
Item Number	Description	Type	Part Number	Code	Manufacturer	Qty.	Type Comments
		230_HighChair_Group				2	PROVIDED BY CLARK
	DESK CHAIR	656_Lorell_Desk Chair			LORELL	1	
500236	Table Steel_Cored_Tall	Table Steel_Cored_Tall	TSRBBW		Furniture Vendor	6	Refer to Furniture Plan for Locations.
500236	Table Steel_FS_Bipod	Table Steel_Freestanding_Bipod	1040-1BW		Furniture Vendor	18	Refer to Furniture Plan for Locations.
500236	Table_Base_Casters	Table Steel_Freestanding_Castor Base_22 Base Spread	CFAMPTLG22		Furniture Vendor	2	Freestanding
500236	Table_Base_Flip Top_Casters	Table Steel_Freestanding_Castor Base_Flip Top_22 Base Spread	CFAMPTLG22-FT		Furniture Vendor	8	Freestanding (Tilt / Nest)
500236	Table Steel_FS_X	Table Steel_Freestanding_X	1040-2BW		Furniture Vendor	8	Refer to Furniture Plan for Locations.
500236	Table_Cored_24x44	24 x 44	TABLE2444PC-SQ-S	T2444C	Furniture Vendor	6	Cored
500236	Table_Base_FS_ADA 30x45	30 x 45	TABLE3045PC-SQ-S	TH3045F	Furniture Vendor	6	Freestanding
500236	Table_Base_FS_24x44	24 x 44	TABLE2444PC-SQ-S	T2444F	Furniture Vendor	3	Freestanding
500236	Table_Base_FS_24x22	24 x 22	TABLE2224PC-SQ-S	T2422F	Furniture Vendor	5	Freestanding
500236	Table_Base_FS_30x22	30 x 22	TABLE2230PC-SQ-S	T3022F	Furniture Vendor	3	Freestanding
500236	Table_Top_MP_24x36	24 x 36	CFAMPT2436	CFAMPT2436	Furniture Vendor	1	Caster Style Base: CFAMPTLG22
500236	Table_Top_MP_Tilt_Nest_24x48	24 x 48_Tilt_Nest	CFAMPT2448	CFAMPT2448	Furniture Vendor	3	Caster Style Base (Flip Top): CFAMPTLG22-FT
500236	Table_Top_MP_Tilt_Nest_24x48	24 X 48_Tilt_Nest_ADA	CFAMPT2448	CFAMPT2448	Furniture Vendor	1	Caster Style Base (Flip Top): CFAMPTLG22-FT
500236	Table_Gathering_Accessible_33.75 Height_6-top	6-Top (Accessible)_33.75" Height	CFAGT7-LP	WTB3680-ADA 33.75H	A Better Way Ministries	1	Furniture Vendor
500237	Chair_Farm Stool_22" H	Chair_Farm Stool_22" H Frame	FARMSTWO	FS	Furniture Vendor	6	Use with Accessible Max 34" Dining Surface
500237	Chair_Library_Standard	Chair_Library_Standard	LIBRARYCHUPH1-CFA-R02	LIB	Furniture Vendor	44	Standard Height Chair
500237	Chair_Library_Tall	Chair_Library_Tall	LIBRARYBSALUM-CFA-R02	LIBT	Furniture Vendor	24	Tall Height Chair, Red
500237	Chair_Steelcase Office	Plastic Back without Arm - Caster	MOVE CHAIR NA	MOVE	Steelcase	1	Supplied by Furniture Vendor
500238	Booth_Heritage_Double 45"	45"	HERITAGE45DCBMBAL	HER45D	Furniture Vendor	1	
500238	Booth_Heritage_Single 62"	62"	HERITAGE62SCBMBAL	HER62	Furniture Vendor	2	
500238	Booth_Heritage_Single 76"	76"	HERITAGE76SCBMBAL	HER76	Furniture Vendor	1	
500238	Booth_Heritage_Single 80"	80"	HERITAGE80SCBMBAL	HER80	Furniture Vendor	2	
500241	Millwork_Shelf_Pick Up	16 x 36	CFAPICKUP1636-MDD_R02	PICK-UP	Furniture Vendor	1	Anchor to Wall or Millwork.
500246	Interior Signage_2x2 Frame	Signage_2x2 Frame_CFAAMD36_24" x 24"	CFAAMD36		AMD	5	Supplied by Furniture Vendor
500246	Interior Signage_Single User ADA RR Sign_Acrylic	Signage_Acrylic Single User Handicap Restroom Sign_1030-CFA63_9" x 6"	1030-CFA63		Furniture Vendor	1	
500246	Interior Signage_Certificate Holder	Signage_Certificate Holder with Acrylic Panel_CFAAMD25_23.25" x 23.25"	CFAAMD25		AMD	1	Supplied by Furniture Vendor
500246	Signage_DIMO Table Markers	DIMO	-----		Furniture Vendor	1	Refer to Table Number Placement Plan.
500246	Interior Signage_Handwash	Signage_Handwash_Clayton_1030-3	1030-3		Clayton Signs	3	Supplied by Furniture Vendor
500246	Interior Signage_Mens RR Sign_Metal	Signage Mens Restroom Sign_CFAAMD51_10" x 6"	CFAAMD51_R01		AMD	1	Supplied by Furniture Vendor
500246	Interior Signage_Pick-Up	Signage Pick-Up Sign 10'-0" / 10'-4"	CFPS3000		PORTICO	1	Supplied by Furniture Vendor
500246	Interior Signage_Round Vestibule RR Sign_Metal	Signage_Round Vestibule Restroom Sign_CFAAMD53_9" DIA	CFAAMD53		AMD	1	Supplied by Furniture Vendor
500246	Interior Signage_Tactile Exit	Signage_Tactile Exit_1030-68_4" x 6"	1030-68		Clayton Signs	4	Supplied by Furniture Vendor
500246	Interior Signage_Team Members Only	Signage_Team Members Only_6" x 6"	CFAAMD66		AMD	1	Supplied by Furniture Vendor
500246	Interior Signage_Womens RR Sign_Metal	Signage_Womens Restroom Sign_CFAAMD52_10" x 6"	CFAAMD52_R01		AMD	1	Supplied by Furniture Vendor
500250	Wall Graphic_24x24	Image Panel_24x24_By Other	By Other		By Other	4	Image Panel, Supplied by Other
500250	Wall Graphic_44x54	Image Panel_44x54_By Other	By Other		By Other	4	Image Panel, Supplied by Other
500250	Wall Graphic_Your Operator Store Specific	Image Panel_CFAG34-Your Operator Store Specific	CFAG34		By Other	1	Your Operator Image Panel, Supplied by Other
500250	Wall Graphic_Nat'l Campaign Cow	Image Panel_H-COW-TBD-Nat'l Campaign Cow	By Other		Print Direction	1	National Campaign Image Panel, Supplied By Other
500250	Wall Graphic_Nat'l Campaign Panel	Image Panel_2x2 Nat'l Campaign Panel	By Other		By Other	1	National Campaign Image Panel, Supplied by Other
500250	Messaging_Large 44x54 Frame	Signage_Large 44x54 Frame_CFAAMD38_44" x 54"	CFAAMD38		AMD	4	Supplied by Furniture Vendor
500250	Messaging_National Campaign	Signage_National Campaign_CFAAMD39_55" x 34.5"	CFAAMD39		AMD	1	Supplied by Furniture Vendor
500250	Our Community Board	Signage_Our Community, Magnetic Bezel-No TV, Oak Veneer_CFAAMD63_30" x 46"	CFAAMD63		AMD	1	Supplied by Furniture Vendor
500250	Messaging_Our Story Wall_Horizontal	Signage_Our Story Wall, Horizontal-Oak Veneer + Acrylic_CFAAMD64_35.75" x 45"	CFAAMD64		AMD	1	Supplied by Furniture Vendor
500250	Your Operator Panel	Signage_Your Operator, Small-Oak Veneer_CFAAMD62_19" x 27"	CFAAMD62		AMD	1	Supplied by Furniture Vendor
500250	Brand Elements_One Sided_Metal_44x44	44 x 44	CH4444-V1		Furniture Vendor	1	
500250	Brand Elements_Coca-Cola Pendant	Coke Light	Coke Light		Furniture Supplier	1	
Grand total: 197						197	



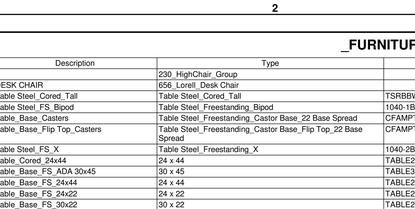
1 LIBRARY CHAIR, STANDARD HEIGHT_LRG
N.T.S.



2 LIBRARY CHAIR, TALL_LRG
N.T.S.



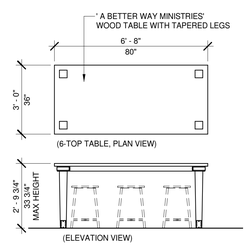
3 FARM STOOL - 22" HEIGHT_LRG
N.T.S.



4 HERITAGE BOOTH/ BANQUETTE_LRG
N.T.S.

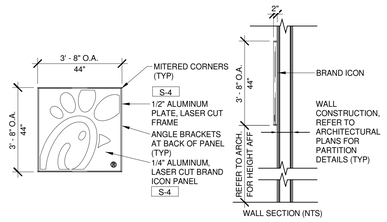


5 TABLES (TYP)_LRG
N.T.S.

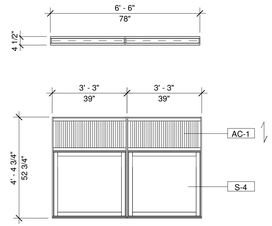


NOTE: FINAL DETAILS PROVIDED BY BWM

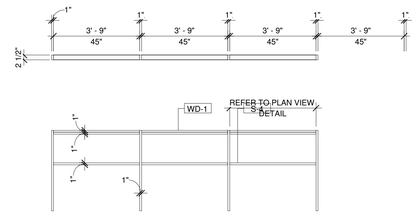
6 GATHERING TABLE, 6-TOP (ACCESSIBLE)_LRG
3/8" = 1'-0"



7 BRAND ICON, ONE-SIDED (44" x 44")_LRG
3/8" = 1'-0"



8 STEEL LOW WALL _LRG
3/8" = 1'-0"



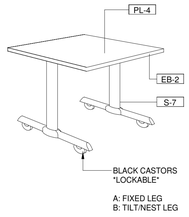
CORED STEEL

9 STREAMLINE QUEUE_LRG
3/8" = 1'-0"

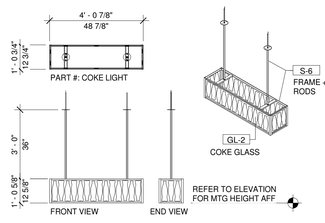


STEELCASE MOVE CHAIR
W/O ARMS
SHELL: STERLING DARK SOLID
CASTORS: BLACK
LEG FINISH: BLACK
SEAT: 5F17 BLACK

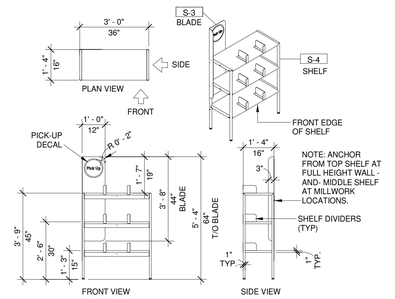
10 STEELCASE MOVE CHAIR_LRG
N.T.S.



11 MULTI-PURPOSE TABLE_LRG
N.T.S.



12 COKE FIXTURE_LRG
3/8" = 1'-0"



13 PICK-UP SHELF_LRG
3/8" = 1'-0"

Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

CHi
Charter House Holdings, LLC
200 N. Franklin Street
Zeeland, MI 49464
www.gotoCHi.com
616.399.6000

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CHICK-FIL-A
WEST POND FSU

320 US HIGHWAY 9 N
WOODBRIDGE, NJ 07095-1004

FSR#04591

BUILDING TYPE / SIZE: P13 LE LRG
RELEASE: 21.11
PRINTED FOR
CONSTRUCTION SET

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

- For Construction -

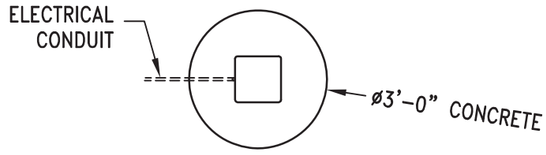
CONSULTANT PROJECT # ####
DATE 01/24/2022
DRAWN BY JS

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SHEET
FURNITURE PRODUCT DETAILS

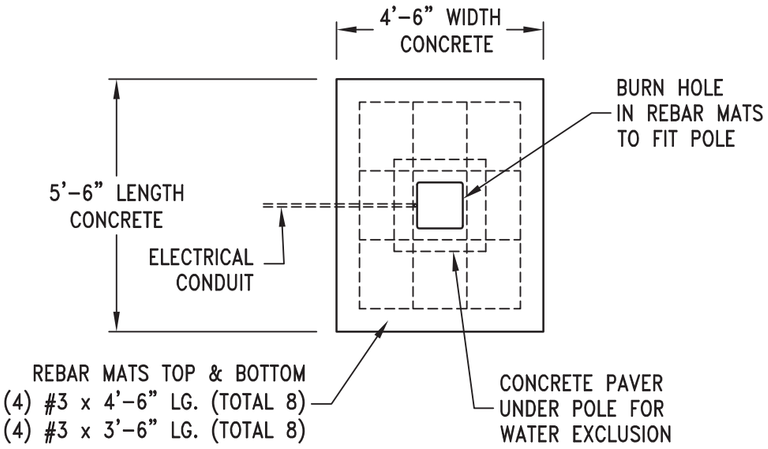
SHEET NUMBER
F-702

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70-LE-04591-F-702 FURNITURE PRODUCT DETAILS



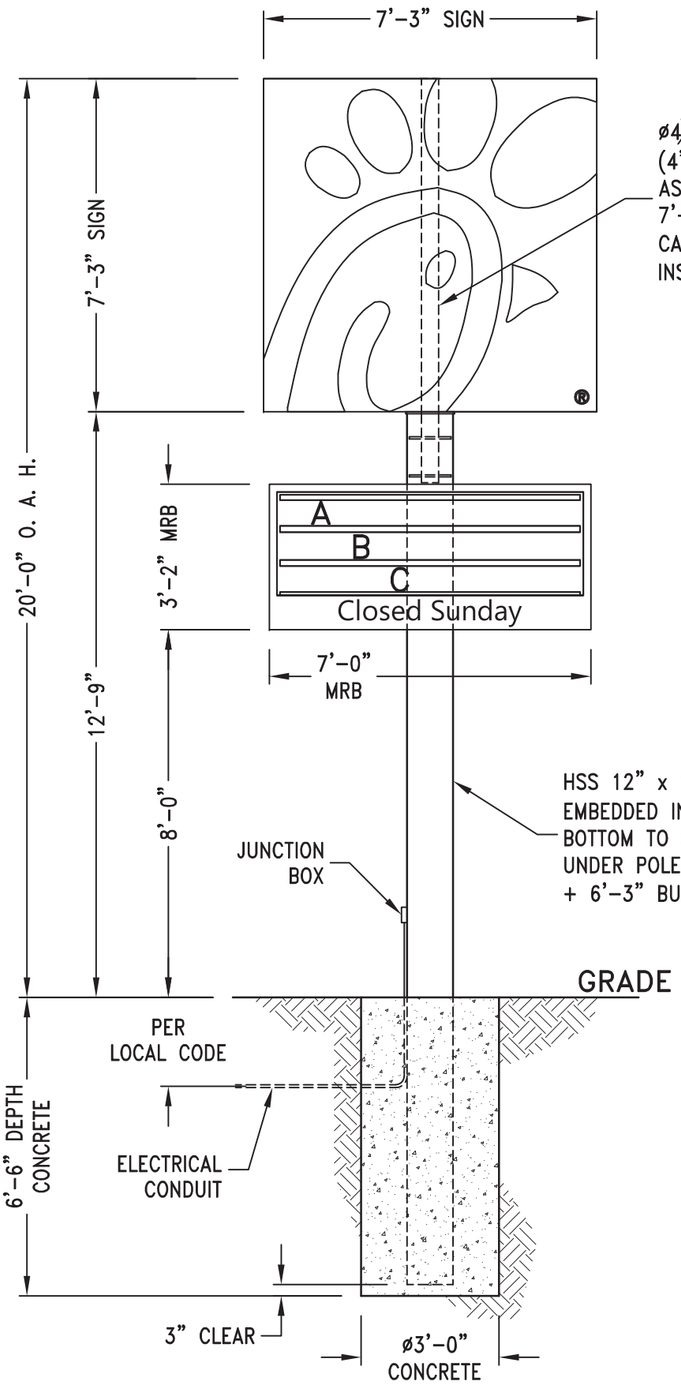
PLAN VIEW w/CAISSON FOOTING

QTY. CONCRETE: 1.5 CU. YDS.

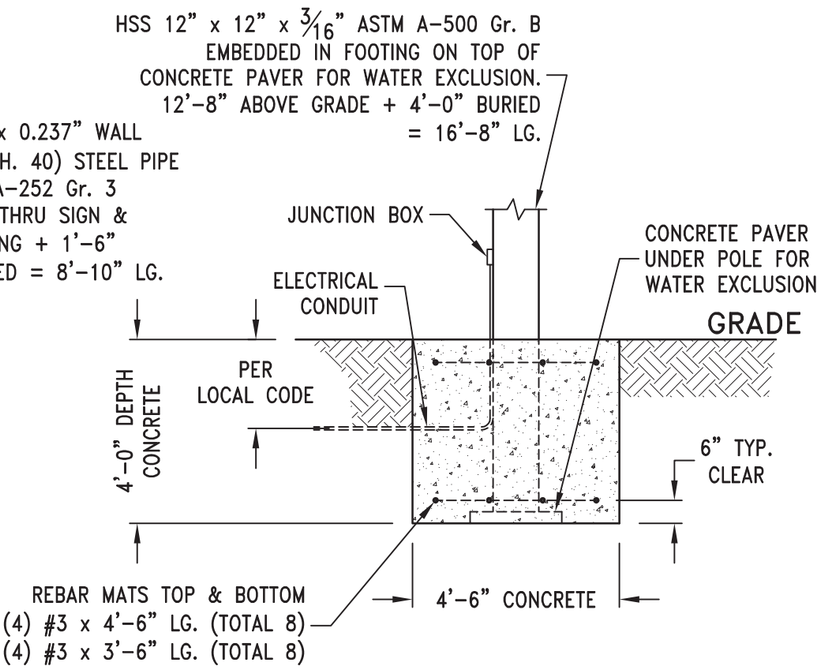


PLAN VIEW w/SPREAD FOOTING

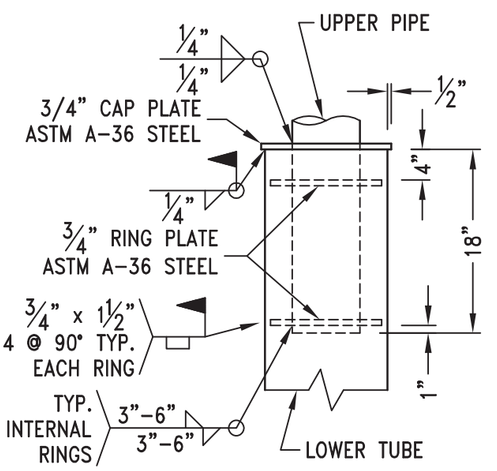
QTY. CONCRETE: 3.7 CU. YDS.



ELEVATION VIEW w/CAISSON FOOTING



ELEVATION VIEW w/SPREAD FOOTING



JOINT DETAIL

FOUNDATION DESIGN NOTES:

1. Concrete shall have a minimum compressive strength of 3000 PSI at 28 days.
2. Reinforcing steel shall be ASTM A-615 Gr. 60.
3. Footings designed using soil bearing forces of 2000 PSF Static, 2660 PSF Dynamic and 150 PSF per foot Lateral. If these soil conditions do not exist, it is the Erector's responsibility to have a new base designed for the existing soil conditions by a Licensed Engineer.

DESIGN WIND LOAD:

Based on the New Jersy State Uniform Construction Code (2018 IBC) using Risk Category II, Exposure C and 115 mph wind speed.

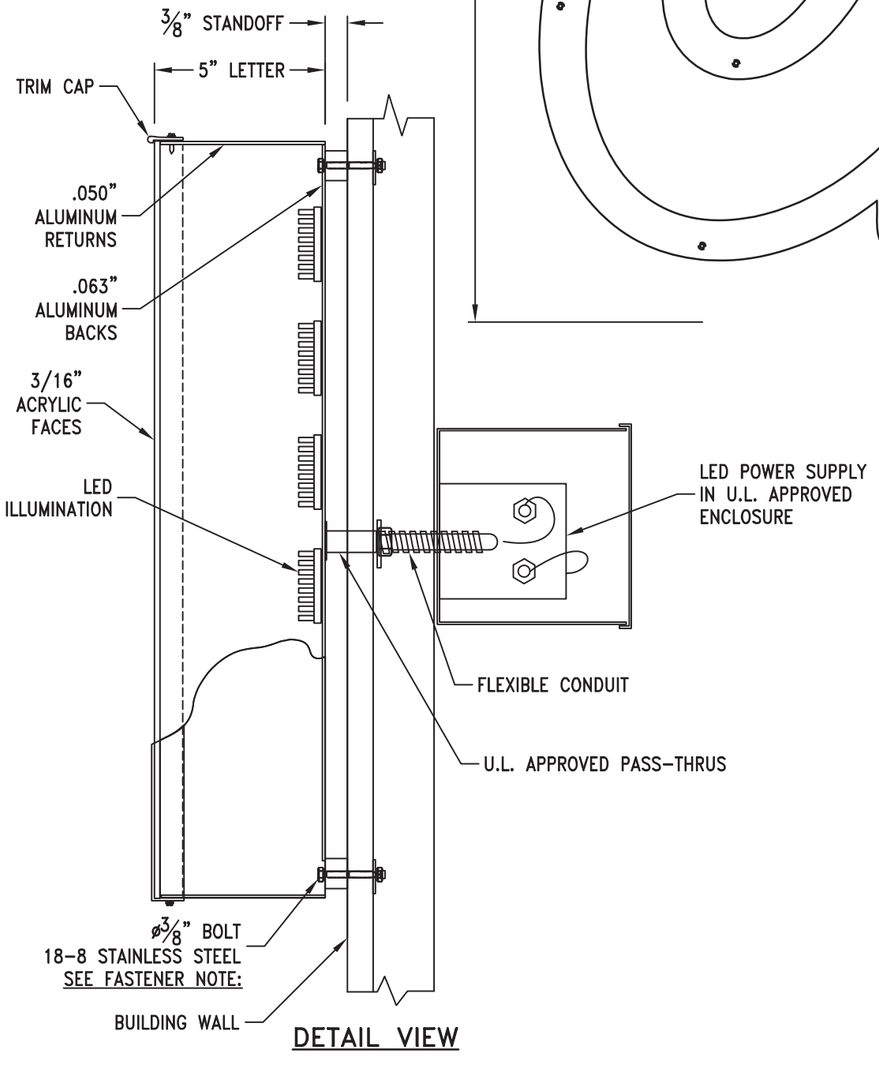
SITE:
Chick-Fil-A
320 US Highway 9 North
Woodbridge, New Jersey 07095

REV	DATE	DESCRIPTION	APPROVED
A	01 Jul 22	RELEASED FOR PERMITTING	J. HOGAN

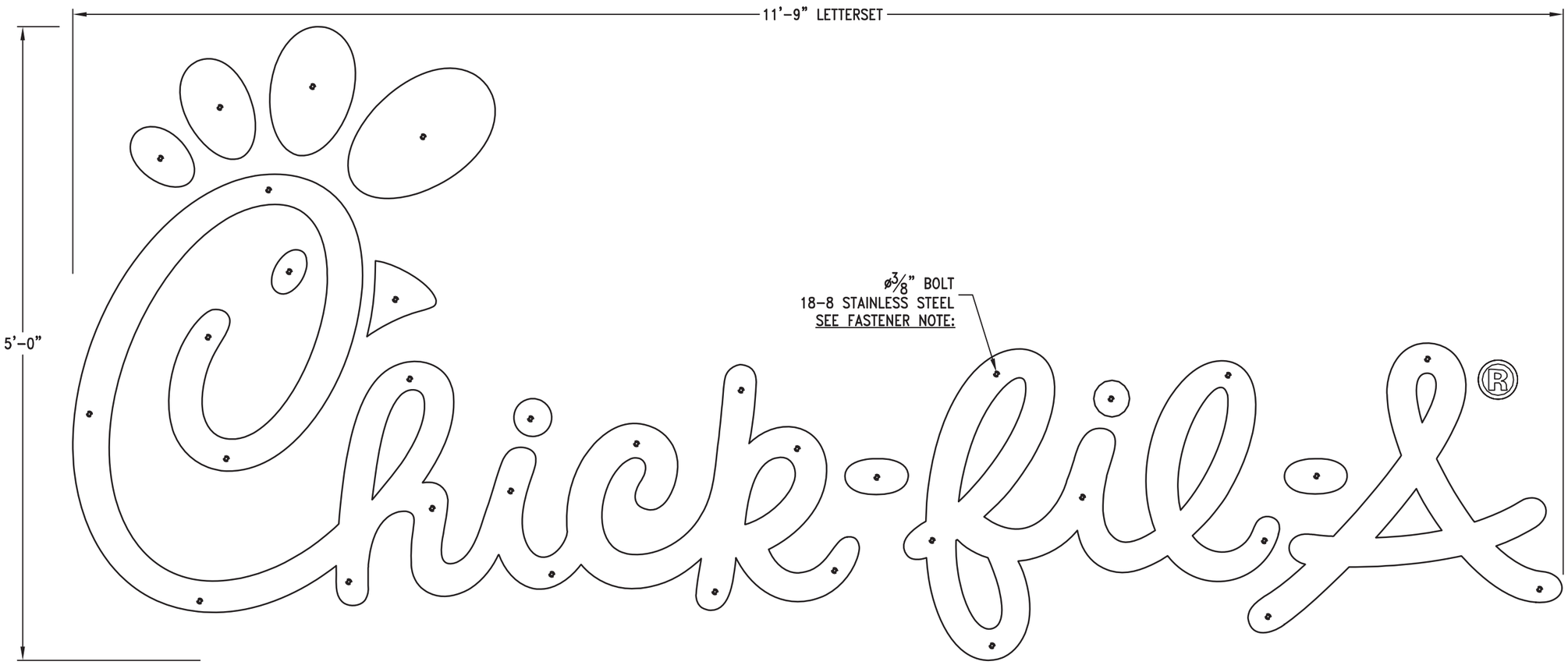
Robert-James & Associates, Inc.
12255 West 187th Street, Mokena Illinois 60448-9737
phone: 708-479-8385 fax: 708-479-8395 email: rja37@comcast.net

TITLE: 20'-0" OAH DIRECT BURY SINGLE POLE FOR CHICK-FIL-A ID AND MRB SIGNS

DRAWN BY	DATE	SCALE	DRAWING NUMBER	SHEET	REV.
A. KLOTZKE	01 Jul 22	NONE	2207001	1 OF 1	A
CHECKED BY J. HOGAN	DATE 01 Jul 22				



DETAIL VIEW



ELEVATION VIEW

THREE (3) OF THESE LETTER SETS WILL BE INSTALLED ON THIS BUILDING.

DESIGN WIND LOAD:
Based on the New Jersy State Uniform Construction Code (2018 IBC) using Risk Category II, Exposure C and 115 mph wind speed.

DESIGN SNOW LOAD:
Based on Ground Snow Loads.

FASTENER NOTE:
Use 18-8 stainless steel bolts, w/spacers thru EIFS, as listed:
- Expansion bolts in concrete or brick walls.
- Toggle bolts in hollow concrete block or plywood sheathing.
- TEK screws in metal studs.
- Lag bolts in wood studs.
- All thread bolts with blocking between studs without sheathing.

NOTE:
All electrical to be in accordance with U.L., the NEC and local code.

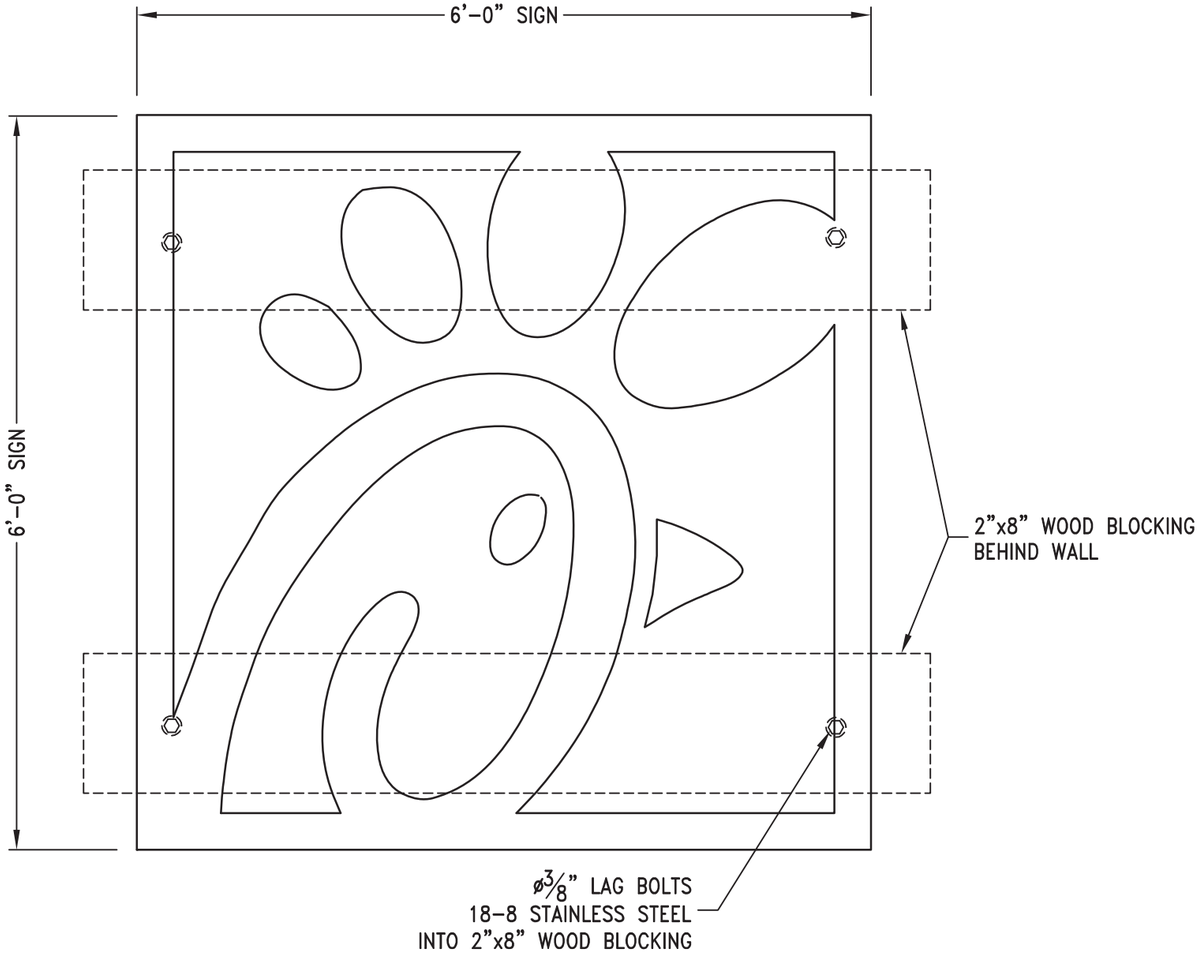
SITE:
Chick-Fil-A
320 US Highway 9 North
Woodbridge, New Jersey 07095

REV	DATE	DESCRIPTION	APPROVED
A	01 Jul 22	RELEASED FOR PERMITTING	J. HOGAN

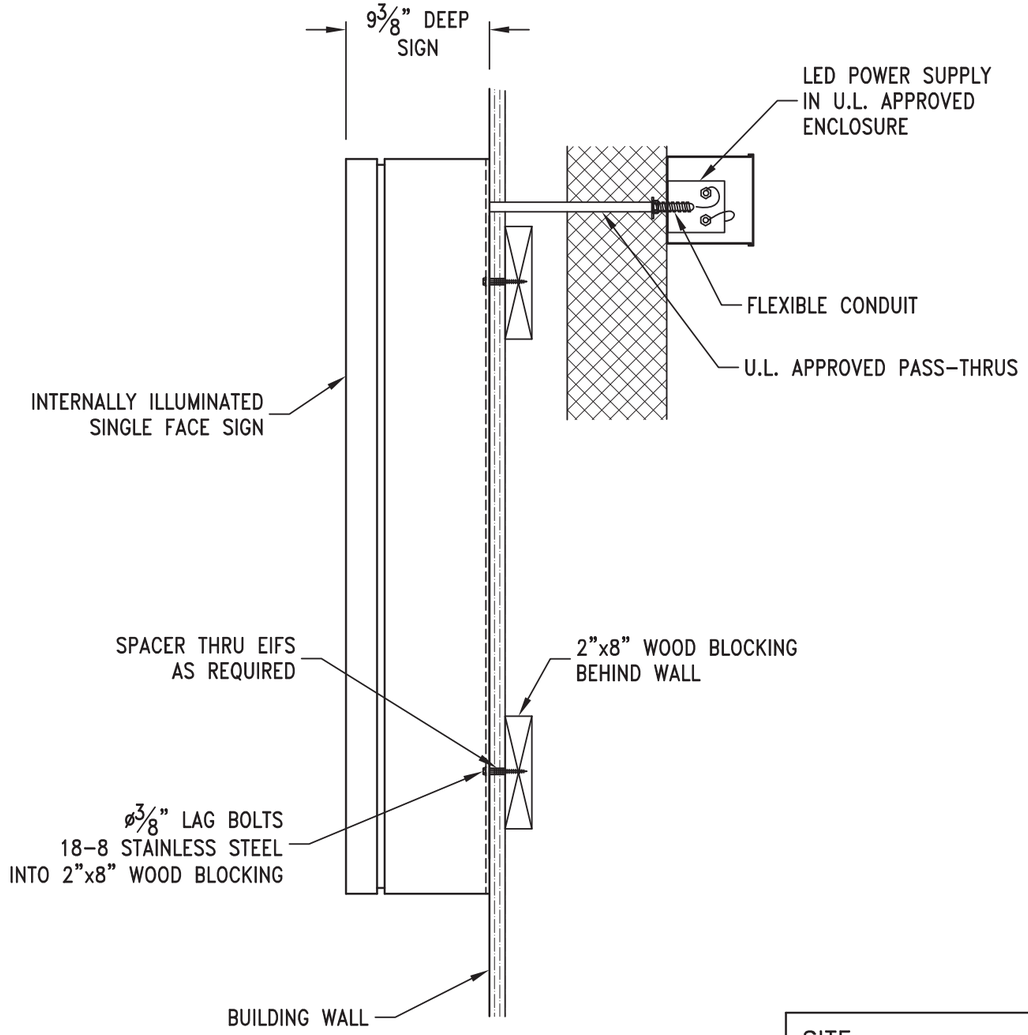
Robert-James & Associates, Inc.
12255 West 187th Street, Mokena Illinois 60448-9737
phone: 708-479-8385 fax: 708-479-8395 email: rja37@comcast.net

TITLE: 5'-0" TALL SCRIPT LED CHANNEL LETTERS MOUNTED TO BUILDING WALL

DRAWN BY	DATE	SCALE	DRAWING NUMBER	SHEET	REV.
A. KLOTZKE	01 Jul 22	NONE	2207002	1 OF 1	A
CHECKED BY J. HOGAN	DATE 01 Jul 22				



ELEVATION VIEW



DETAIL VIEW

DESIGN WIND LOAD:
Based on the New Jersey State Uniform Construction Code (2018 IBC) using Risk Category II, Exposure C and 115 mph wind speed.

DESIGN SNOW LOAD:
Based on Ground Snow Loads.

NOTE:
All electrical to be in accordance with U.L., the NEC and local code.

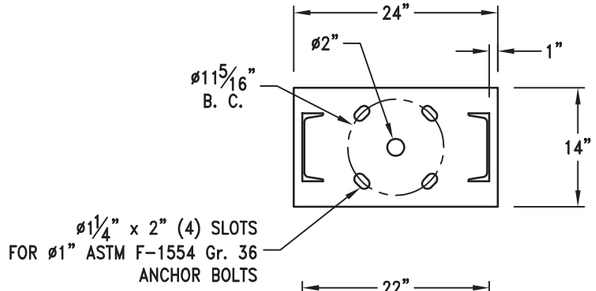
SITE:
Chick-Fil-A
320 US Highway 9 North
Woodbridge, New Jersey 07095

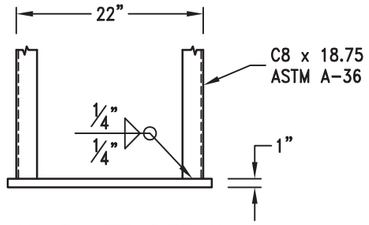
REV	DATE	DESCRIPTION	APPROVED
A	01 Jul 22	RELEASED FOR PERMITTING	J. HOGAN

Robert-James & Associates, Inc.
12255 West 187th Street, Mokena Illinois 60448-9737
phone: 708-479-8385 fax: 708-479-8395 email: rja37@comcast.net

TITLE: 6'-0" x 6'-0" SINGLE FACE ID SIGN FOR INSTALLATION ON BUILDING WALL

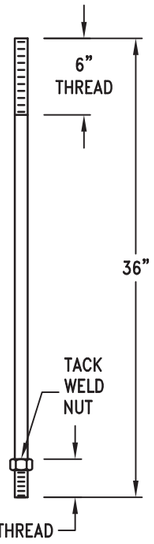
DRAWN BY	DATE	SCALE	DRAWING NUMBER	SHEET	REV.
A. KLOTZKE	01 Jul 22	NONE	2207003	1 OF 1	A
CHECKED BY J. HOGAN	DATE 01 Jul 22				





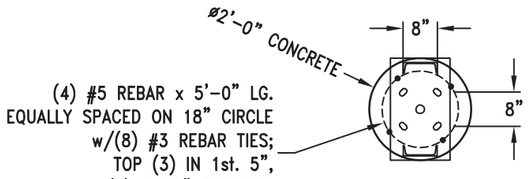
BASE PLATE DETAIL

1" ASTM A-36 STEEL



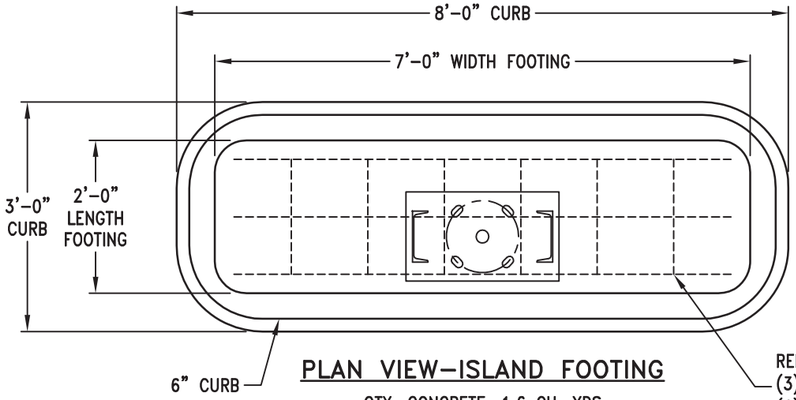
ANCHOR BOLT DETAIL

ø1" ASTM F-1554 Gr. 36 STEEL



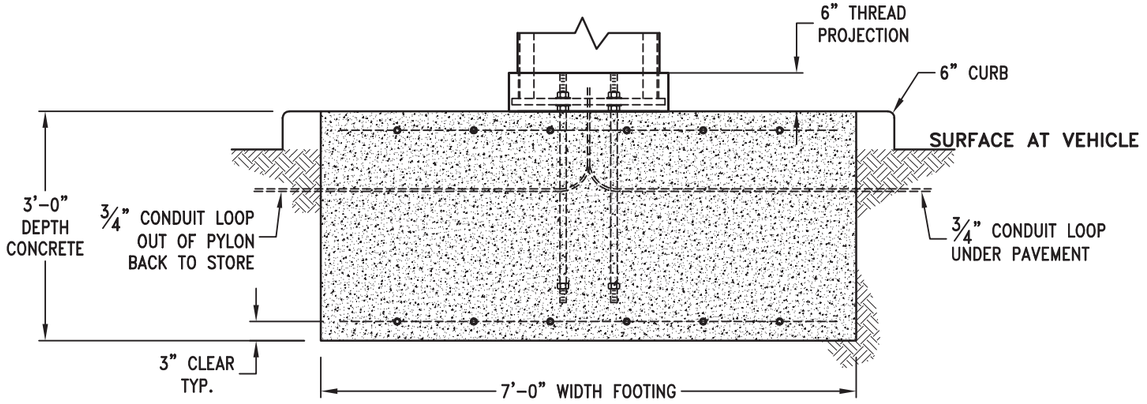
PLAN VIEW

QTY. CONCRETE: 0.6 CU. YDS.

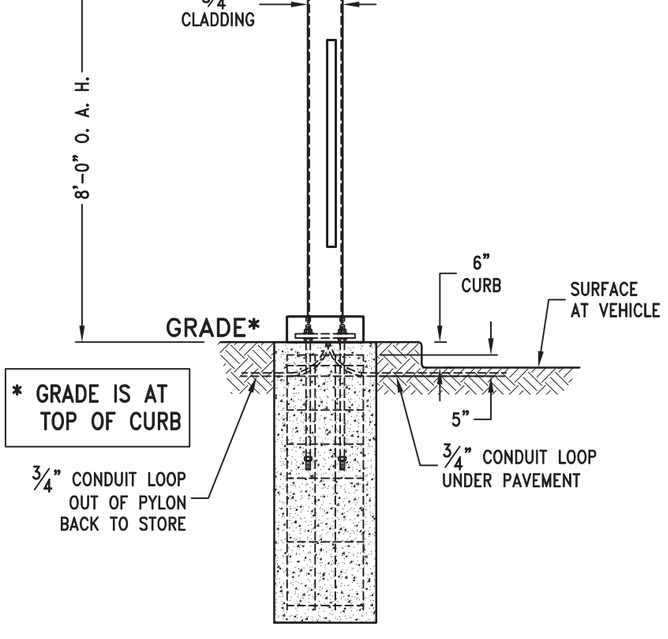


PLAN VIEW–ISLAND FOOTING

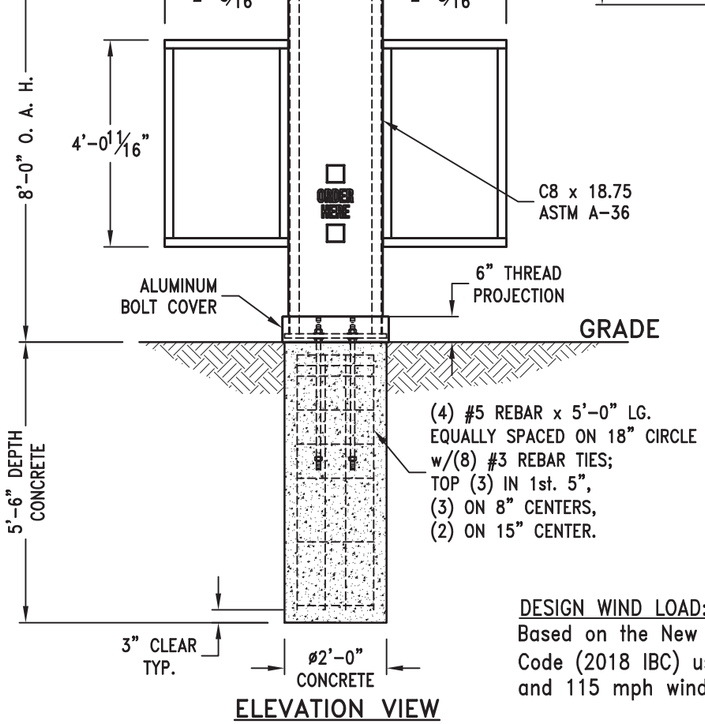
QTY. CONCRETE: 1.6 CU. YDS.



ELEVATION VIEW–ISLAND FOOTING



SIDE VIEW



ELEVATION VIEW

FOUNDATION DESIGN NOTES:

1. Concrete shall have a minimum compressive strength of 3000 PSI at 28 days.
2. Reinforcing steel shall be ASTM A-615 Gr. 60.
3. Footings designed using soil bearing forces of 1500 PSF Static, 2000 PSF Dynamic and 150 PSF per foot Lateral. If these soil conditions do not exist, it is the Erector's responsibility to have a new base designed for the existing soil conditions by a Licensed Engineer.
4. Anchor bolts shall be ASTM F-1554 Gr. 36 steel.

DESIGN WIND LOAD:

Based on the New Jersey State Uniform Construction Code (2018 IBC) using Risk Category II, Exposure C and 115 mph wind speed.

SITE:
Chick-Fil-A
320 US Highway 9 North
Woodbridge, New Jersey 07095

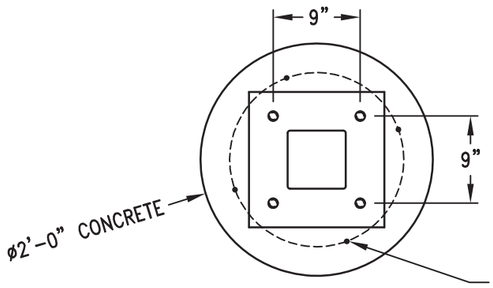
REV	DATE	DESCRIPTION	APPROVED
A	01 Jul 22	RELEASED FOR PERMITTING	J. HOGAN

Robert-James & Associates, Inc.
12255 West 187th Street, Mokena Illinois 60448-9737
phone: 708-479-8385 fax: 708-479-8395 email: rja37@comcast.net

TITLE: 8'-0" OAH CLADDED SINGLE POLE DRIVE-THRU MENUBOARD. TWO (2) REQUIRED

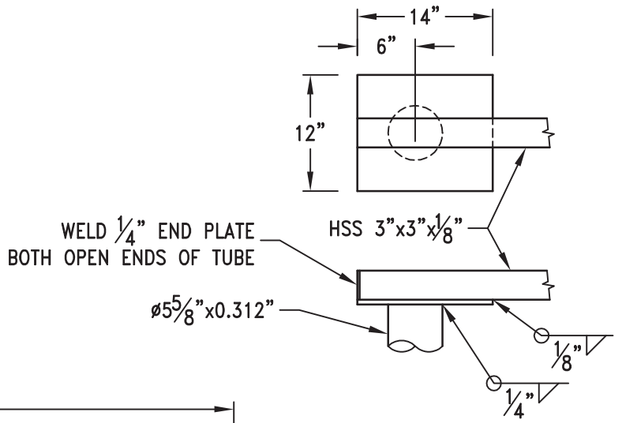
DRAWN BY	DATE	SCALE	DRAWING NUMBER	SHEET	REV.
A. KLOTZKE	01 Jul 22	NONE	2207004	1 OF 1	A
CHECKED BY J. HOGAN	DATE 01 Jul 22				

TWO (2) MENUBOARDS WILL BE INSTALLED AT THIS SITE: ONE AT EACH OF THE TWO DRIVE-THRU LANES



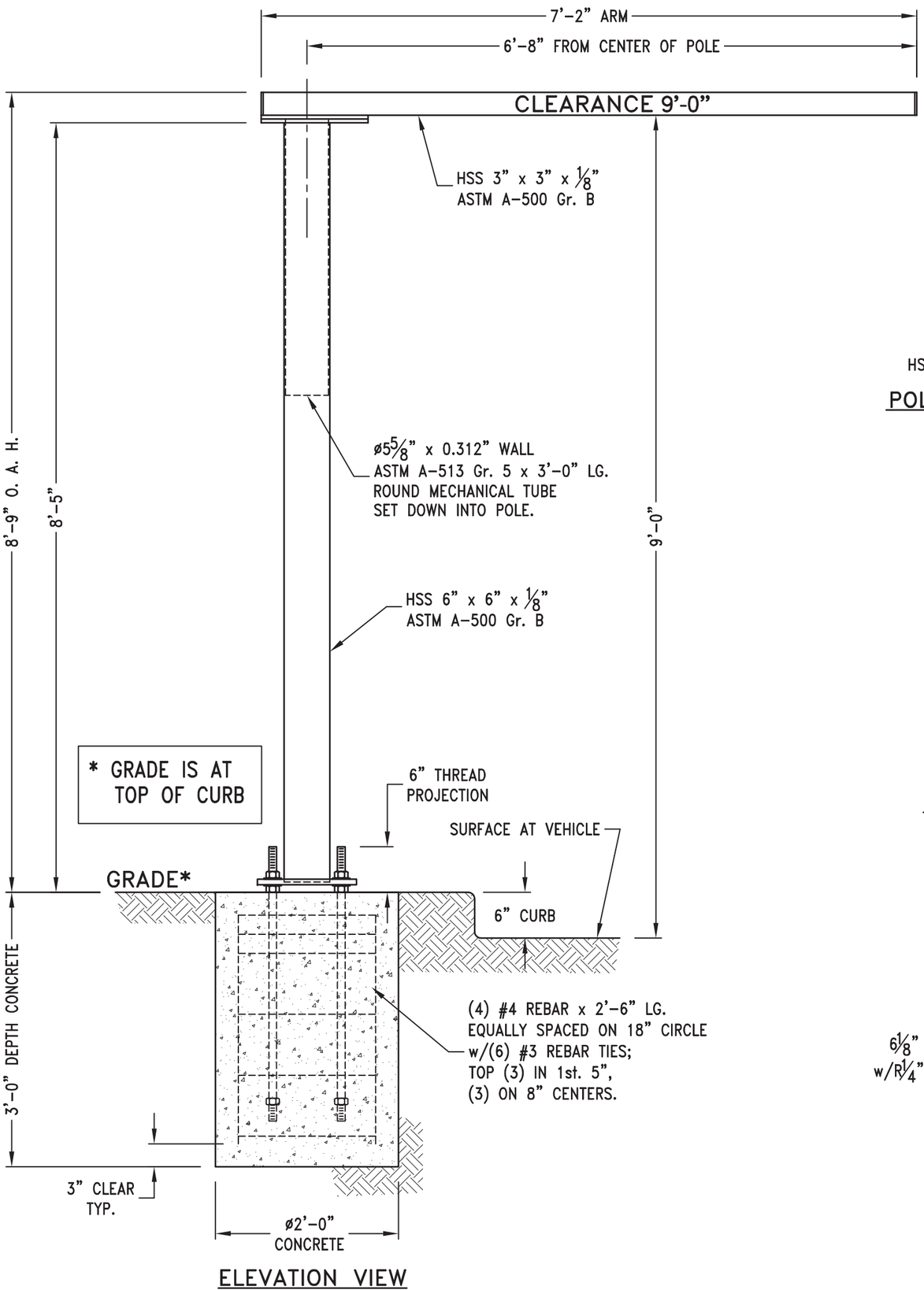
PLAN VIEW

QTY. CONCRETE: 0.3 CU. YDS.

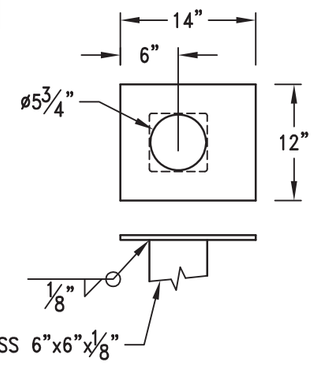


CONNECTION PLATE DETAIL

½" ASTM A-36 STEEL

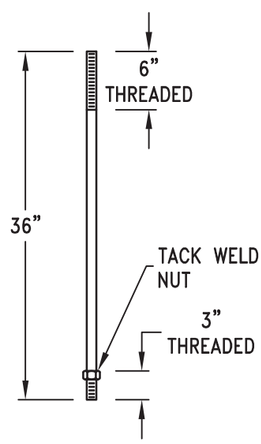


ELEVATION VIEW



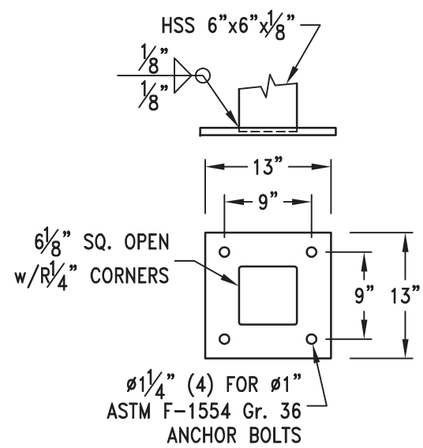
POLE TOP PLATE DETAIL

½" ASTM A-36 STEEL



ANCHOR BOLT DETAIL

ø1" ASTM F-1554 Gr. 36 STEEL



BASE PLATE DETAIL

¾" ASTM A-36 STEEL

SITE:
Chick-Fil-A
320 US Highway 9 North
Woodbridge, New Jersey 07095

FOUNDATION DESIGN NOTES:

1. Concrete shall have a minimum compressive strength of 3000 PSI at 28 days.
2. Reinforcing steel shall be ASTM A-615 Gr. 60.
3. Caisson footing designed using a soil bearing force of 150 PSF per foot Lateral. If this soil condition does not exist, it is the Erector's responsibility to have a new base designed for the existing soil conditions by a Licensed Engineer.
4. Anchor bolts shall be ASTM F-1554 Gr. 36 steel.

DESIGN WIND LOAD:

Based on the New Jersey State Uniform Construction Code (2018 IBC) using Risk Category II, Exposure C and 115 mph wind speed.

DESIGN SNOW LOAD:

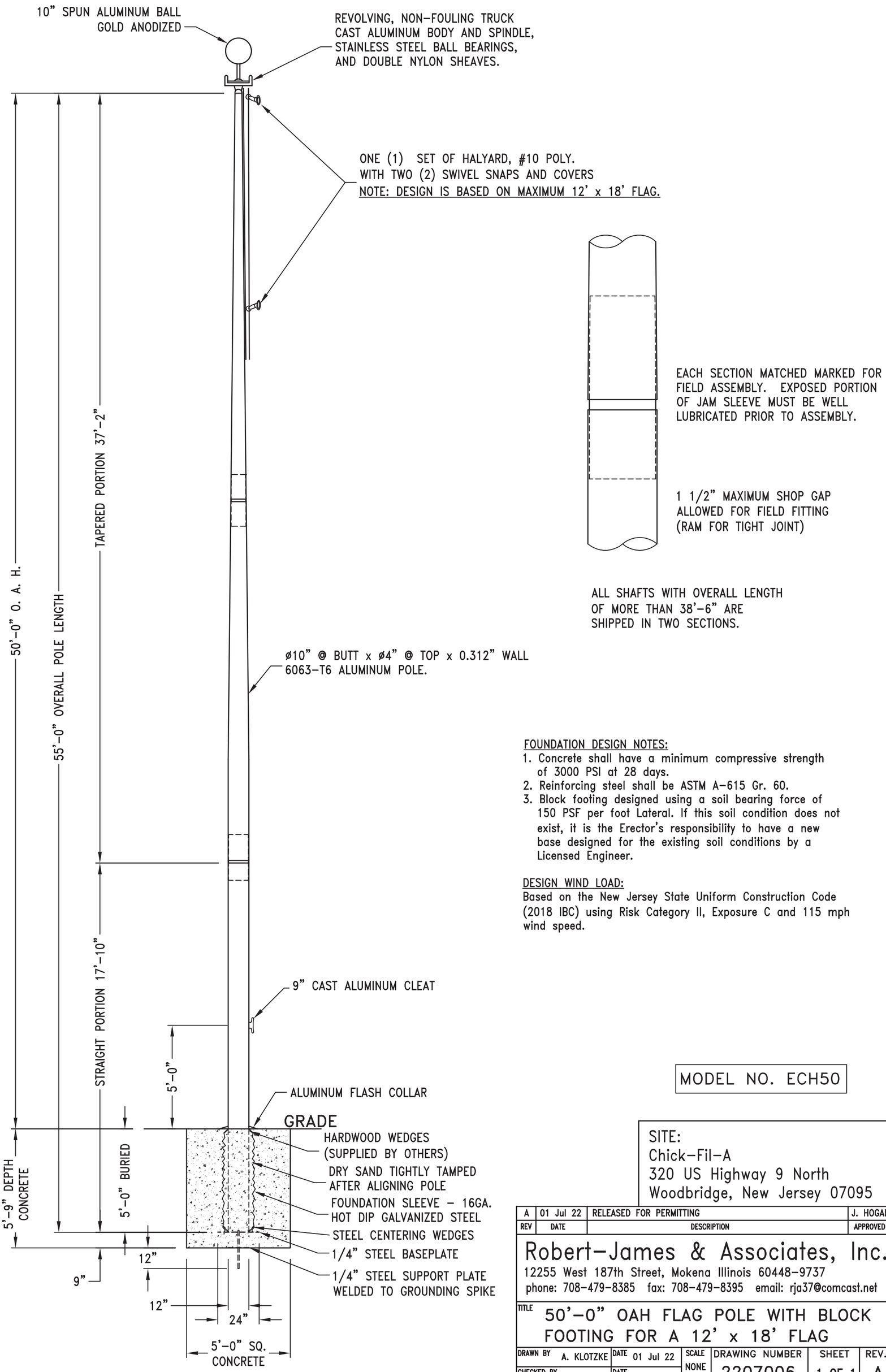
Based on Ground Snow Loads.

REV	DATE	DESCRIPTION	APPROVED
A	01 Jul 22	RELEASED FOR PERMITTING	J. HOGAN

Robert-James & Associates, Inc.
12255 West 187th Street, Mokena Illinois 60448-9737
phone: 708-479-8385 fax: 708-479-8395 email: rja37@comcast.net

TITLE: SINGLE POLE DRIVE-THRU CLEARANCE ARM WITH 9'-0" CLEARANCE

DRAWN BY	DATE	SCALE	DRAWING NUMBER	SHEET	REV.
A. KLOTZKE	01 Jul 22	NONE	2207005	1 OF 1	A
CHECKED BY J. HOGAN	DATE 01 Jul 22				



FOUNDATION DESIGN NOTES:

1. Concrete shall have a minimum compressive strength of 3000 PSI at 28 days.
2. Reinforcing steel shall be ASTM A-615 Gr. 60.
3. Block footing designed using a soil bearing force of 150 PSF per foot Lateral. If this soil condition does not exist, it is the Erector's responsibility to have a new base designed for the existing soil conditions by a Licensed Engineer.

DESIGN WIND LOAD:

Based on the New Jersey State Uniform Construction Code (2018 IBC) using Risk Category II, Exposure C and 115 mph wind speed.

MODEL NO. ECH50

SITE:
Chick-Fil-A
320 US Highway 9 North
Woodbridge, New Jersey 07095

REV	DATE	DESCRIPTION	APPROVED
A	01 Jul 22	RELEASED FOR PERMITTING	J. HOGAN

Robert-James & Associates, Inc.
12255 West 187th Street, Mokena Illinois 60448-9737
phone: 708-479-8385 fax: 708-479-8395 email: rja37@comcast.net

TITLE: 50'-0" OAH FLAG POLE WITH BLOCK FOOTING FOR A 12' x 18' FLAG

DRAWN BY	DATE	SCALE	DRAWING NUMBER	SHEET	REV.
A. KLOTZKE	01 Jul 22	NONE	2207006	1 OF 1	A
CHECKED BY J. HOGAN	DATE 01 Jul 22				

SPECIFICATIONS

CABINET

D/F ALUM. CABINET WITH SIGNCOMP RETRO FLAT BLEED FRAME AND COVER, WITH .063" ALUM FILLER. INTERNALLY ILLUMINATED WHITE LED 6500K LIGHTS, SPACED EVENLY. PAINT INTERIOR OF CABINETS MATTE WHITE.

READER BOARD

ALUMINUM CONSTRUCTION CABINET INTERNALLY ILLUMINATED WHITE LED 6500K LIGHTS, SPACED EVENLY. READER FACE IS .187" WHITE POLYCARBONATE FACE WITH TRACK TO ACCOMMODATE READER BOARD LETTER SET INCLUDES FRANKLIN GOTHIC EXTRA CONDENSED UPPERCASE LETTER SET OF 334 CHARACTERS WITH PUNCTUATION MARKS & CHANGER ARM.

3M #3630-53 TRANSLUCENT CARDINAL RED

7328 WHITE POLYCARBONATE

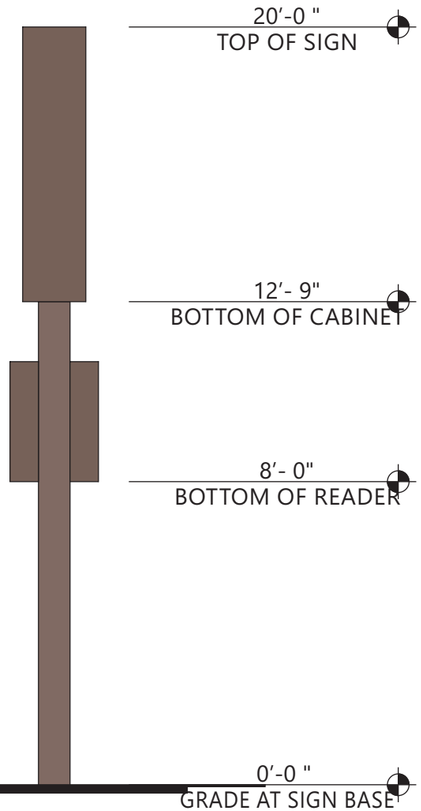
MATTHEWS #74155 DARK BRONZE

SEE ENGINEER STAMPED DRAWING FOR FOUNDATION DETAILS



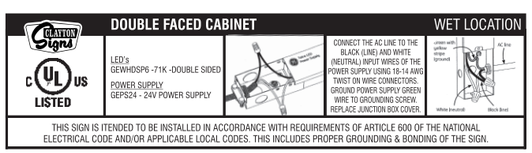
ELEVATION

SCALE - 1/4" = 1'- 0"



END VIEW

SCALE - 1/4" = 1'- 0"



CLAYTON Signs 50 YEARS SINCE 1965

5198 North Lake Drive
Lake City, GA 30260
404.361.3800
www.claytonsigns.com

DOUBLE-FACED PYLON SIGN

DRAWING FILE - CFA - WOODBRIDGE, NJ (WEST POND) SIGNAGE.CDR

ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED

DRAWN BY	Ben Holliday
ACCOUNT REP.	Ben Holliday
DRAWING DATE	December 10, 2019
REVISION DATE	July 7, 2022

STORE NUMBER	STORE ADDRESS
L04591	Chick-fil-A at Woodbridge, NJ (West Pon 320 US Highway 9N Woodbridge, NJ 07095

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LOCATION A

SPECIFICATIONS

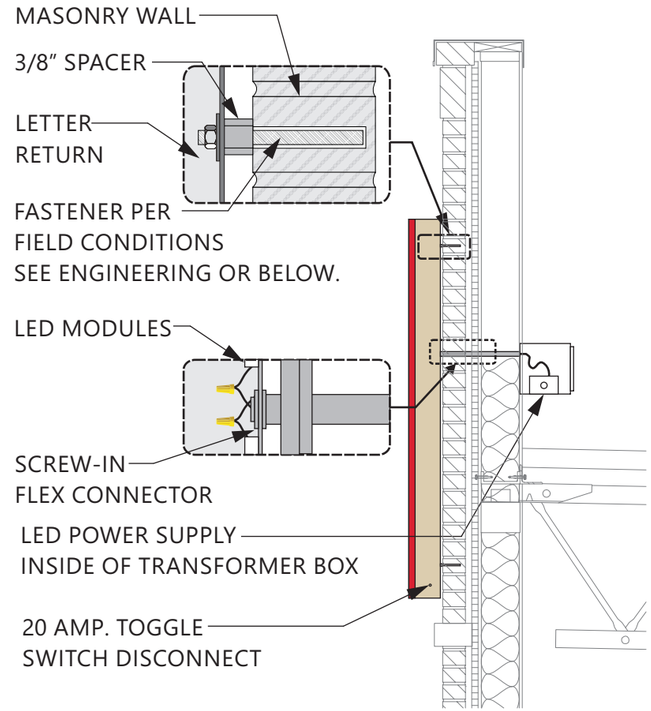
CHICK-FIL-A SCRIPT LETTERS
LETTERS ARE LED-ILLUMINATED
CHANNEL LETTERS MOUNTED
ON ALUMINUM SURFACE OF BUILDING
WITH TRANSFORMERS REMOTELY
LOCATED BEHIND THE WALL IN
UL APPROVED TRANSFORMER BOXES.
FACES ARE 3/16" ACRYLIC
RETURNS ARE .063 ALUMINUM
BACKS ARE .080 ALUMINUM
ALL RETURNS ARE ARC-WELDED TO
LETTER BACKS

CHANNEL LETTER FACES
2793 RED ACRYLIC
TRIMCAP RETAINER-
1" RED JEWELITE TRIMCAP

ALUMINUM RETURNS
PAINTED TO MATCH
SHERWIN WILLIAMS
SW6108 LATTE

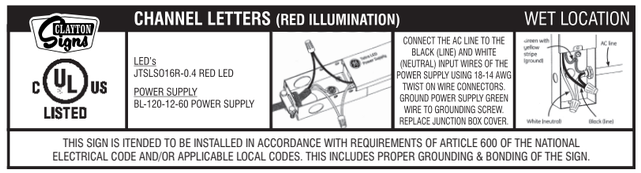


ELEVATION
SCALE - 1/2" = 1'- 0"



FASTENER NOTE:
USE 18-8 STAINLESS STEEL BOLTS W/ SPACERS THRU EIFS.
EXPANSION BOLTS IN CONCRETE OR BRICK WALLS.
TOGGLE BOLTS IN CONCRETE BLOCK OR PANEL WALLS.
TEK SCREWS IN METAL STUDS. LAG-BOLTS IN WOOD STUDS.
ALL THREAD BOLTS WITH BLOCKING BETWEEN STUDS.

CROSS-SECTION
SCALE - 1/2" = 1'- 0"



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LED-ILLUMINATED
CHANNEL LETTERS

DRAWING FILE - CFA - WOODBRIDGE, NJ (WEST POND) SIGNAGE.CDR

ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED

DRAWN BY	Ben Holliday
ACCOUNT REP.	Ben Holliday
DRAWING DATE	December 10, 2019
REVISION DATE	July 7, 2022

STORE NUMBER	STORE ADDRESS
L04591	Chick-fil-A at Woodbridge, NJ (West Por 320 US Highway 9N Woodbridge, NJ 07095

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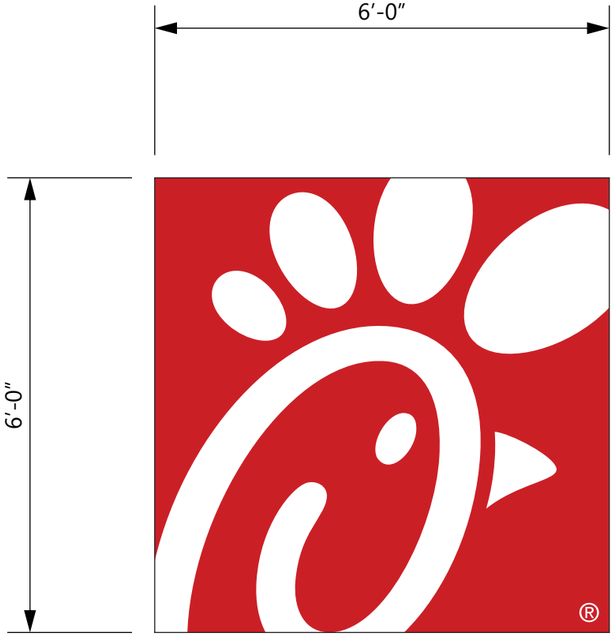
LOCATION
B1,D,E

SPECIFICATIONS

CABINET
ALUMINUM CABINET HAS EXTRUDED ALUMINUM
FACES
FLEX FACES DECORATED WITH TRANSLUCENT VINYL
FILM ON SURFACE OF ACRYLIC.
INTERNALLY ILLUMINATED WITH WHITE LED 6500K LIGHTS.
DISCONNECT SWITCH AS REQUIRED PER NEC.

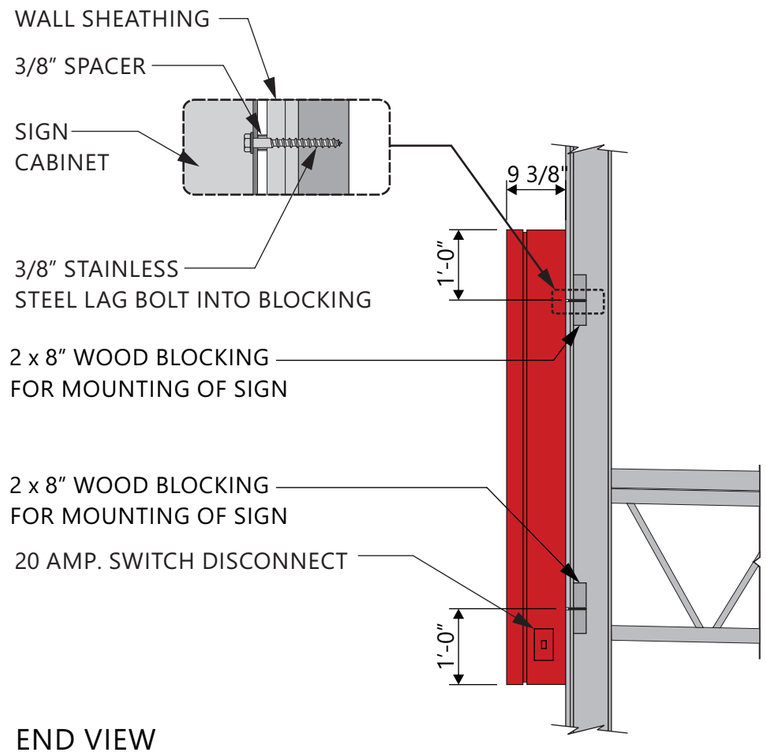
FACES
3M #3630-53 CARDINAL
RED TRANSLUCENT VINYL
CABINET
GENESIS M SINGLE STAGE
(G2-SERIES) RED #48247

3M PANOGRAPHIC III FLEX FACE



ELEVATION
SCALE - 1/2" = 1'- 0"

36.00 SQUARE FEET



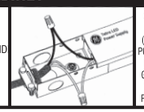
END VIEW
SCALE - 1/2" = 1'- 0"

SINGLE FACED CABINET — WET LOCATION

CLAYTON Signs — C UL US LISTED

LED's
GEWHSSPS3 - 71K - SINGLED SID

POWER SUPPLY
GEPS12 - 12V POWER SUPPLY



CONNECT THE AC LINE TO THE BLACK (LINE) AND WHITE (NEUTRAL) INPUT WIRES OF THE POWER SUPPLY USING 18-14 AWG TWIST ON WIRE CONNECTORS. GROUND POWER SUPPLY GREEN WIRE TO GROUNDING SCREW. REPLACE JUNCTION BOX COVER.



THIS SIGN IS ITENDED TO BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS OF ARTICLE 600 OF THE NATIONAL ELECTRICAL CODE AND/OR APPLICABLE LOCAL CODES. THIS INCLUDES PROPER GROUNDING & BONDING OF THE SIGN.

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404.361.3800
www.claytonsigns.com

WALL SIGN

DRAWING FILE - CFA - WOODBRIDGE, NJ (WEST POND) SIGNAGE.CDR

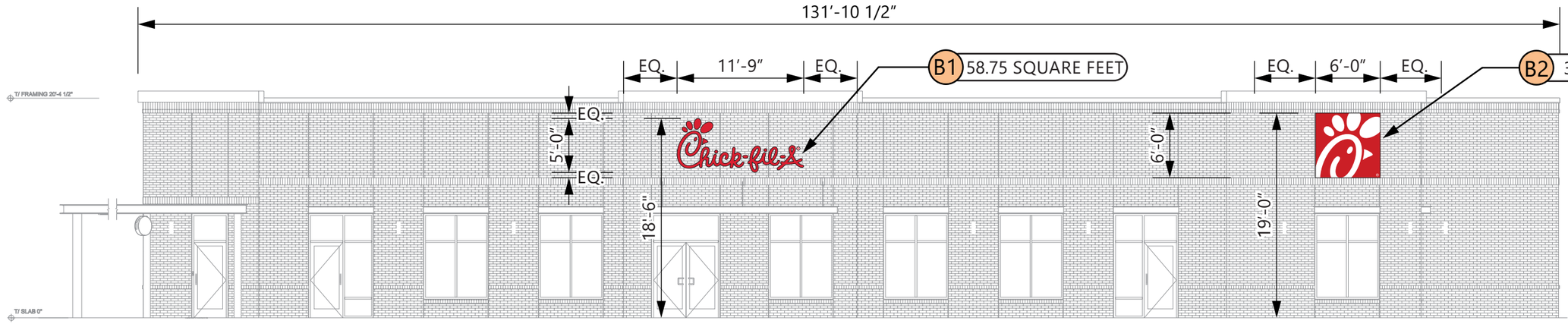
ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED

DRAWN BY	Ben Holliday
ACCOUNT REP.	Ben Holliday
DRAWING DATE	December 10, 2019
REVISION DATE	July 7, 2022

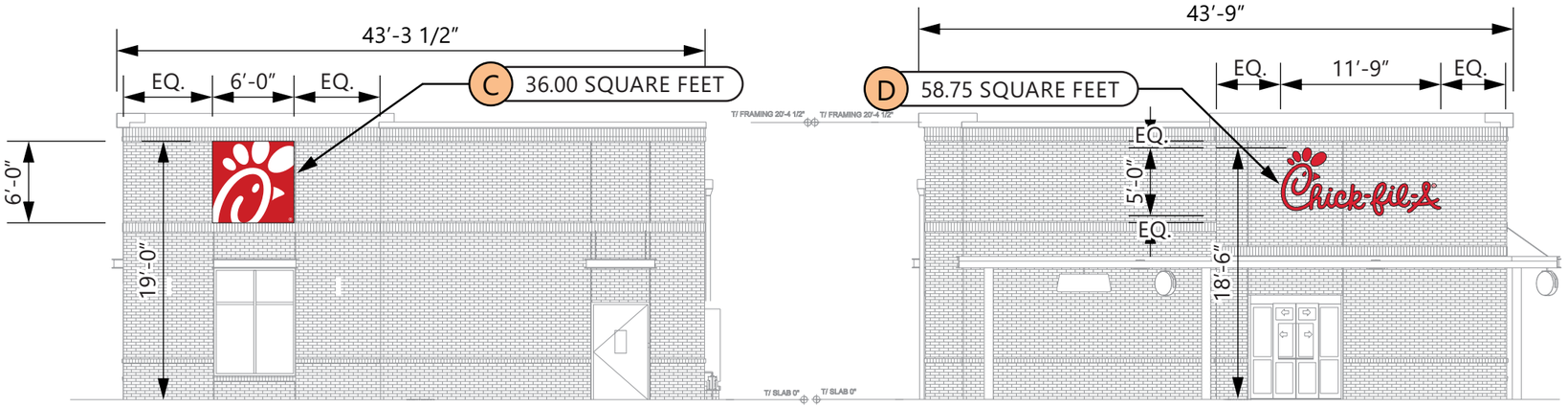
STORE NUMBER	STORE ADDRESS
L04591	Chick-fil-A at Woodbridge, NJ (West Pon 320 US Highway 9N Woodbridge, NJ 07095

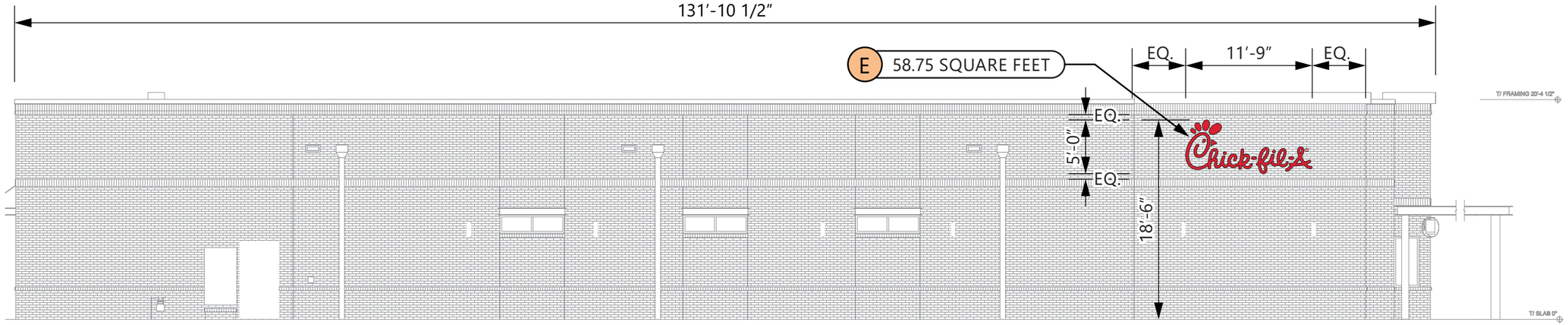
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LOCATION
B2,C



BUILDING AREA
21′-8" x 131′- 10 1/2″
2,615 SQ. FT. x 10%
261.50 SQ. FT.





ELEVATIONS

SCALE - 3/32″ = 1'- 0"

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ELEVATIONS

DRAWING FILE - CFA - WOODBRIDGE, NJ (WEST POND) SIGNAGE.CDR

ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED

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ACCOUNT REP.	Ben Holliday
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BUILDING ELEVATIONS

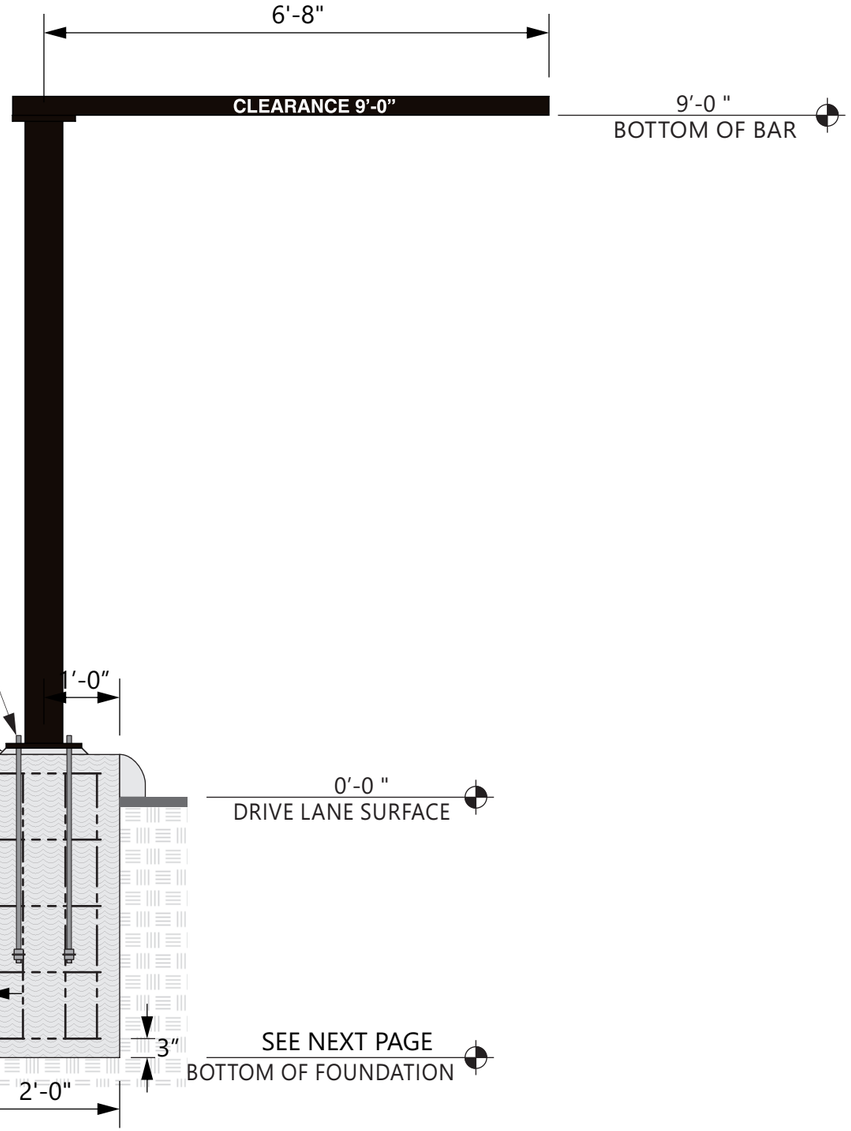
SPECIFICATIONS

STEEL CLEARANCE BAR

CLEARANCE BAR FURNISHED
AND INSTALLED BY
PATTISON SIGN GROUP
ANCHOR CAGES AND FOOTINGS
FURNISHED AND INSTALLED BY
CLAYTON SIGNS

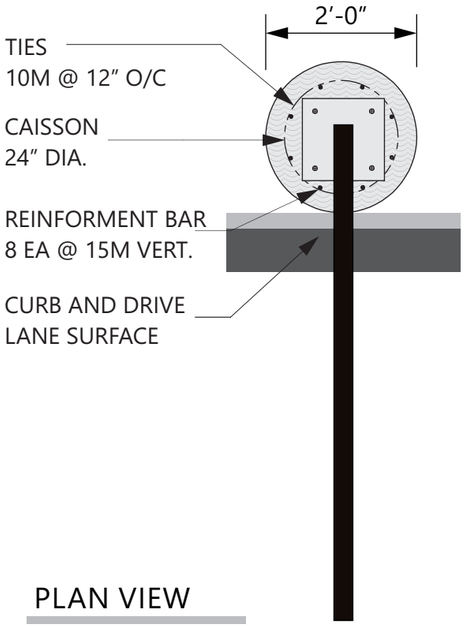
COLORS

CHICK-FIL-A DARK BRONZE



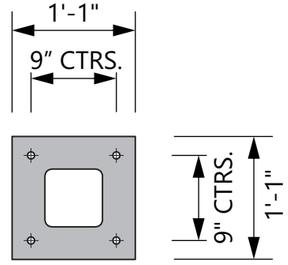
ELEVATION

SCALE - 1/2" = 1'- 0"



PLAN VIEW

SCALE - 1/2" = 1'- 0"



BASE PLATE DETAIL

SCALE - 3/4" = 1'- 0"

ANCHOR BOLT - QTY. 4

NOT TO SCALE

5198 North Lake Drive
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www.claytonsigns.com

DRIVE-THRU
CLEARANCE BAR

DRAWING FILE - CFA - WOODBRIDGE, NJ (WEST POND) SIGNAGE.CDR

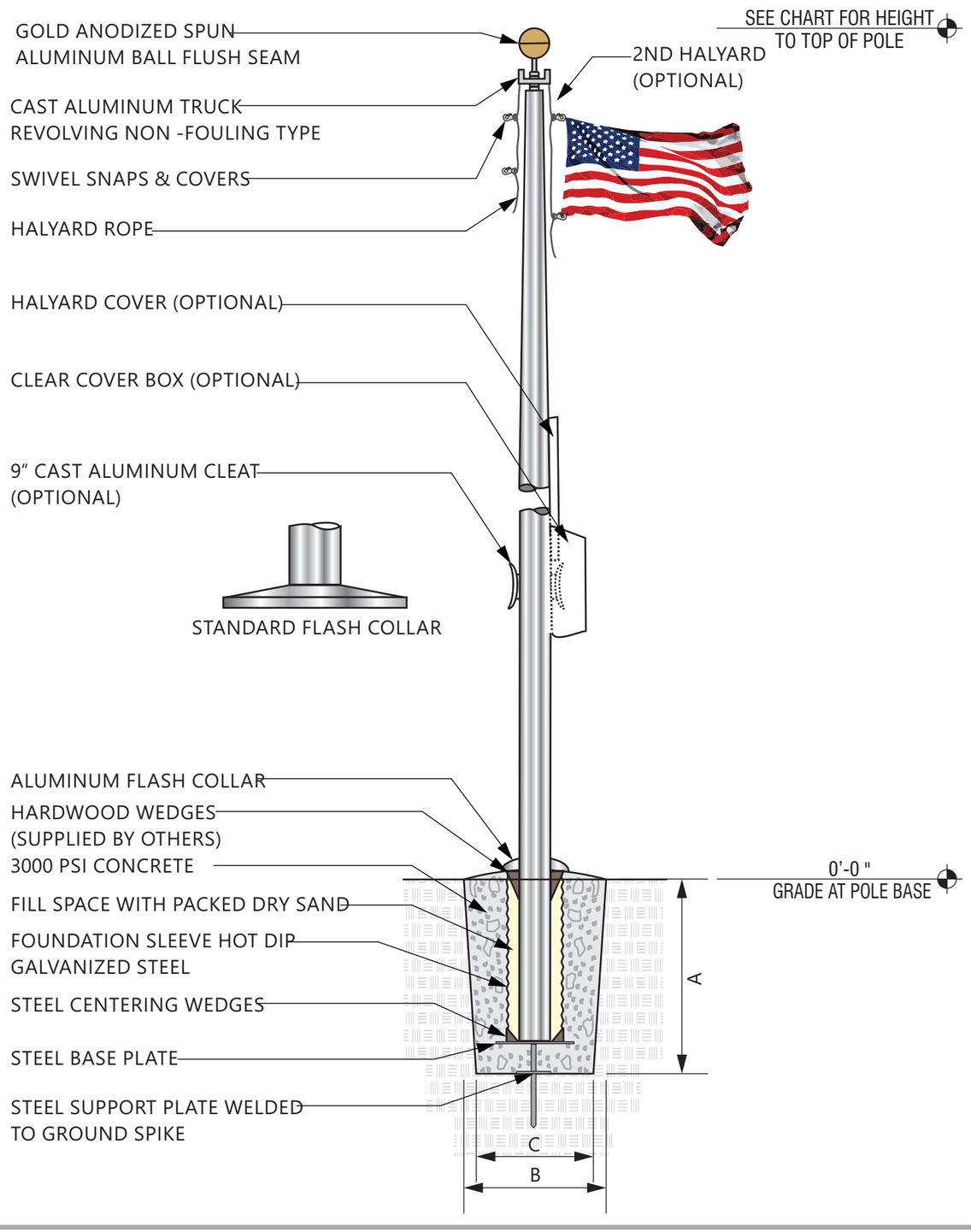
ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED

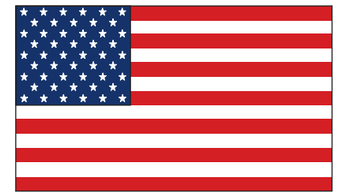
DRAWN BY	Ben Holliday
ACCOUNT REP.	Ben Holliday
DRAWING DATE	December 10, 2019
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STORE NUMBER	STORE ADDRESS
L04591	Chick-fil-A at Woodbridge, NJ (West Por 320 US Highway 9N Woodbridge, NJ 07095

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LOCATION
CB





FLAG SIZES

POLE	A	B	MATERIAL
20'	3'0"	5'0"	POLYESTER
25'	4'0"	6'0"	POLYESTER
30'	5'0"	8'0"	POLYESTER
35'	6'0"	10'0"	POLYESTER
40'	8'0"	12'0"	POLYESTER
45'	8'0"	12'0"	POLYESTER
50'	12'0"	18'0"	POLYESTER

FOUNDATION SIZES

HEIGHT	A	B	C
20'	3'6"	30"	24"
25'	3'6"	30"	24"
30'	3'6"	30"	24"
35'	4'0"	36"	30"
40'	4'6"	42"	36"
45'	5'0"	48"	42"
50'	5'6"	48"	42"

GROUND SLEEVE AND CONCRETE INSTALLED
BY THE GENERAL CONTRACTOR
POLE INSTALLED ON PRE-INSTALLED GROUND
SLEEVE BY SIGN CONTRACTOR

5198 North Lake Drive
Lake City, GA 30260
404.361.3800
www.claytonsigns.com

FLAG POLE

DRAWING FILE - CFA - WOODBRIDGE, NJ (WEST POND) SIGNAGE.CDR

ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED

DRAWN BY	Ben Holliday
ACCOUNT REP.	Ben Holliday
DRAWING DATE	December 10, 2019
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LOCATION
FP

SPECIFICATIONS

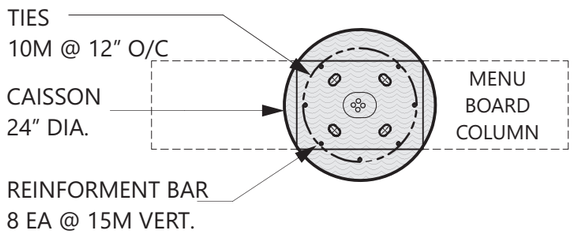
ALUMINUM CONSTRUCTION CABINETS
WITH DIGITAL DISPLAY BOARDS
WITH STATIC IMAGES

MENU BOARDS FURNISHED
BY COATES GROUP AND
INSTALLED BY HONOR BUILT
MENU BOARD COLUMN AND FRAMING
FURNISHED AND INSTALLED BY
PATTISON SIGN GROUP
ANCHOR CAGES AND FOOTINGS
FURNISHED AND INSTALLED BY
CLAYTON SIGNS

COLORS

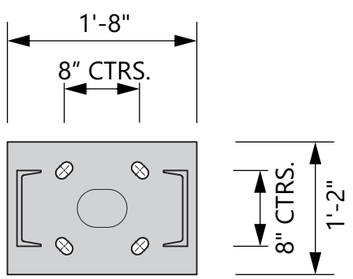
CHICK-FIL-A DARK BRONZE

WHITE REFLECTIVE VINYL FILM



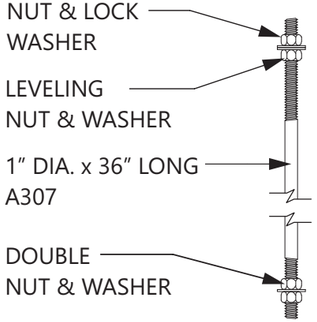
PLAN VIEW

SCALE - 1/2" = 1'- 0"



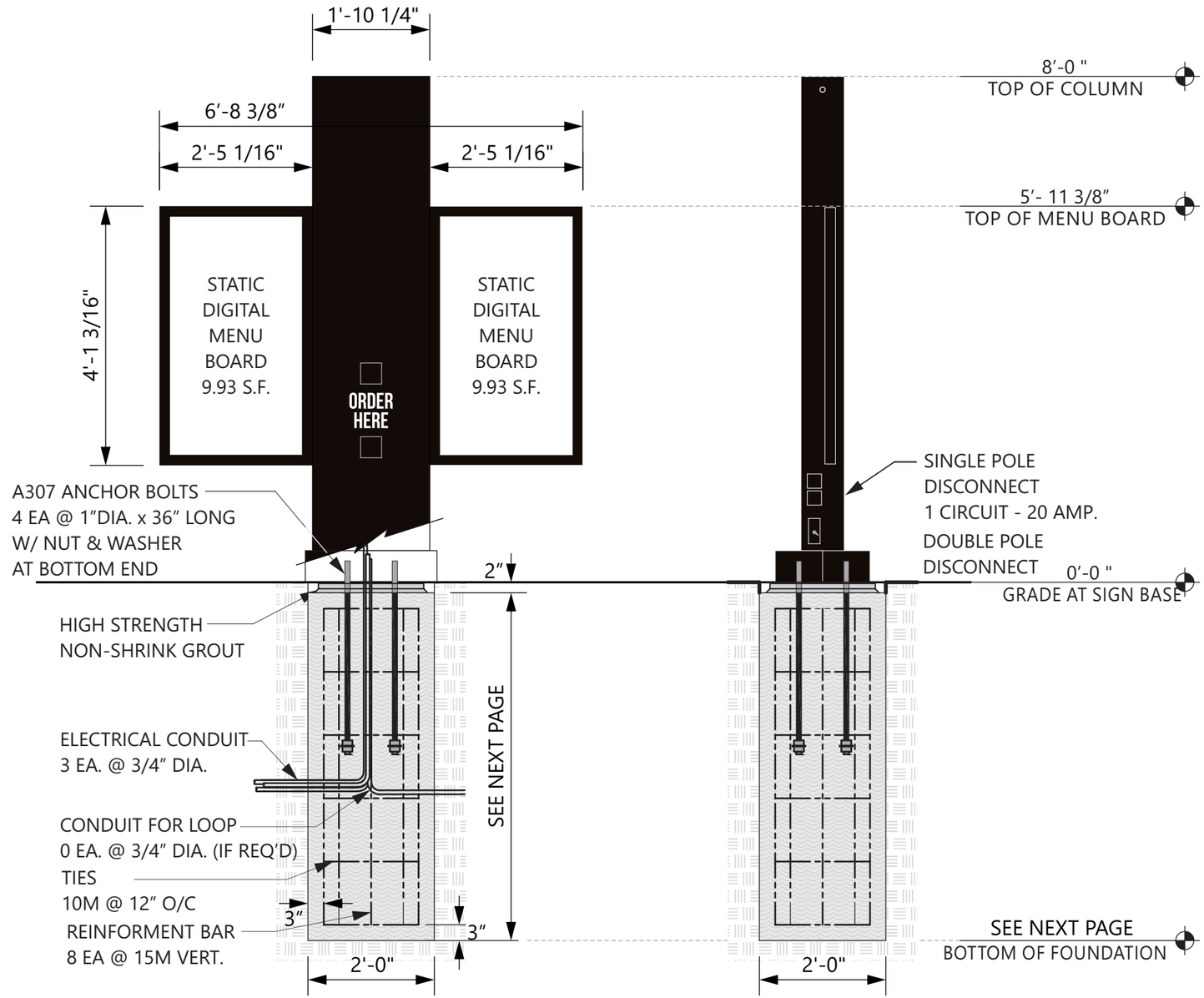
BASE PLATE DETAIL

SCALE - 3/4" = 1'- 0"



ANCHOR BOLT - QTY. 4

NOT TO SCALE



ELEVATION

SCALE - 1/2" = 1'- 0"

END VIEW

SCALE - 1/2" = 1'- 0"

5198 North Lake Drive
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STATIC DIGITAL DRIVE-THRU
MENU BOARDS

DRAWING FILE - CFA - WOODBRIDGE, NJ (WEST POND) SIGNAGE.CDR

ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED

DRAWN BY	Ben Holliday
ACCOUNT REP.	Ben Holliday
DRAWING DATE	December 10, 2019
REVISION DATE	July 7, 2022

STORE NUMBER	STORE ADDRESS
L04591	Chick-fil-A at Woodbridge, NJ (West Por 320 US Highway 9N Woodbridge, NJ 07095

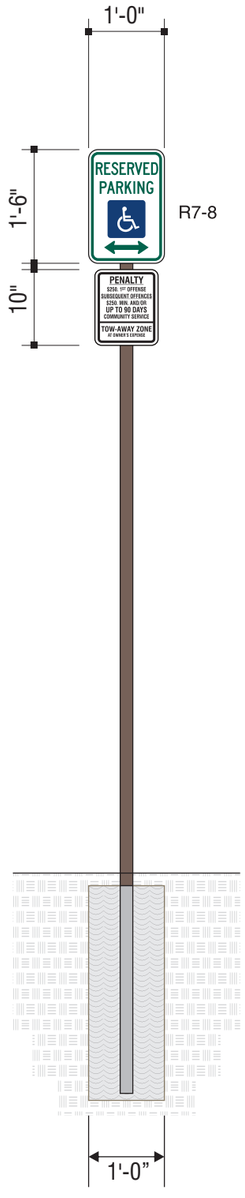
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LOCATION
H1/H2

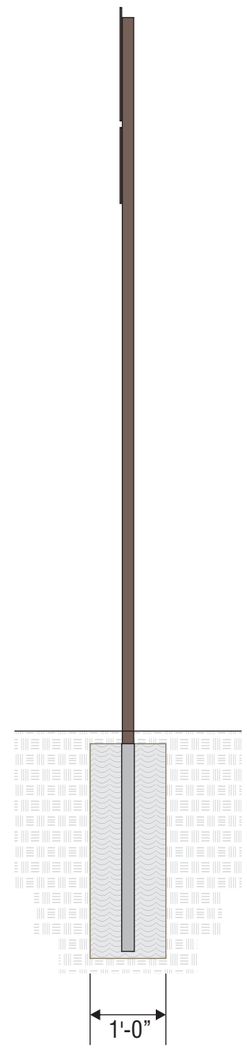
SPECIFICATIONS

SIGN PANELS
PANELS ARE .080 ALUMINUM
WITH REFLECTIVE BACKGROUND
AND GRAPHICS.
SIGN POSTS
POSTS ARE 2" x 2" SQUARE
ALUMINUM TUBING CAPPED ON TOP

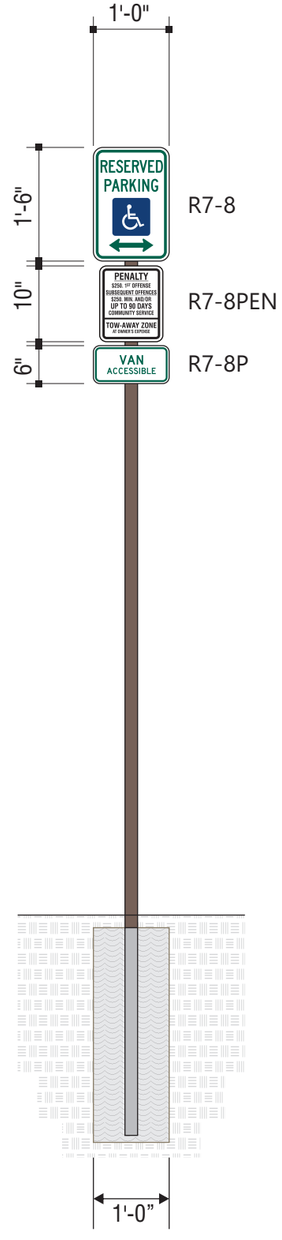
BACK OF SIGN PANEL AND POST
MATTHEWS #74155 DARK BRONZE



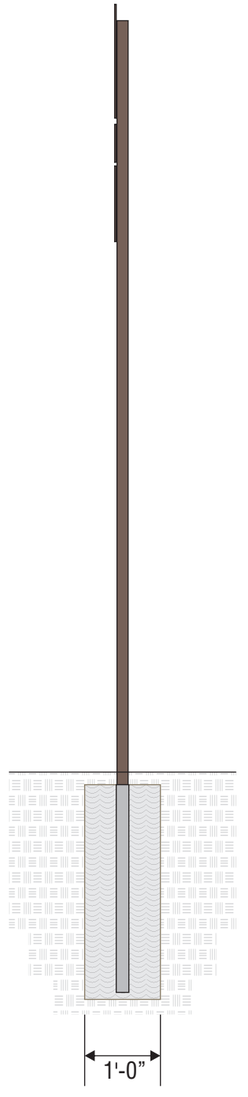
ELEVATION
SCALE - 1/2" = 1'- 0"



END VIEW
SCALE - 1/2" = 1'- 0"



ELEVATION
SCALE - 1/2" = 1'- 0"



END VIEW
SCALE - 1/2" = 1'- 0"

NOTE: IF THIS SIGN IS LOCATED ON THE SIDEWALK THEN IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INSTALL A PVC SLEEVE INTO THE CONCRETE WHEN THE SIDEWALK IS POURED PRIOR TO INSTALLATION OF THE SIGN' BY CLAYTON SIGNS.

7'-0"
BOTTOM OF PANEL

0'-0 "
GRADE AT SIGN BASE

-3'-0 "
BOTTOM OF FOUNDATION

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DOT REGULATORY TRAFFIC SIGNS

DRAWING FILE - CFA - WOODBRIDGE, NJ (WEST POND) SIGNAGE.CDR

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LOCATION
K1/K2

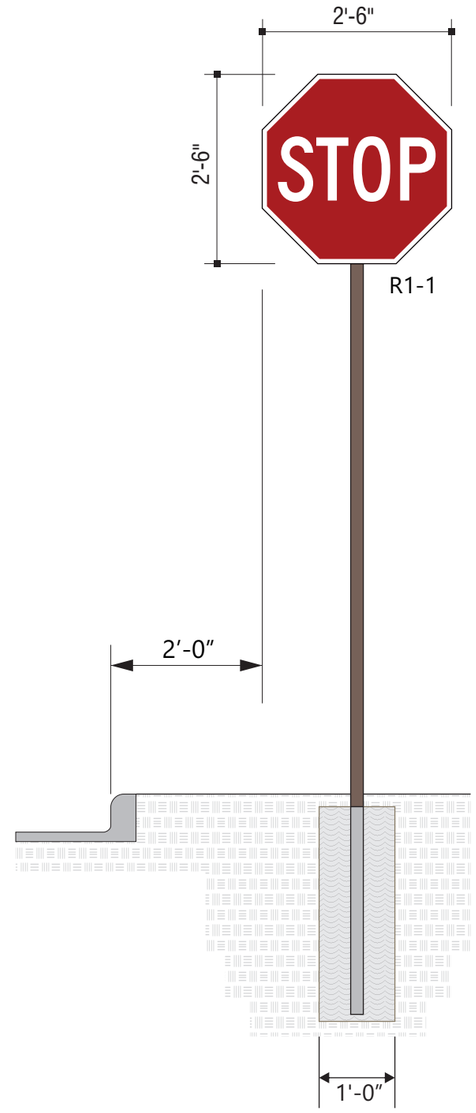
SPECIFICATIONS

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AND GRAPHICS.
SIGN POSTS
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ALUMINUM TUBING CAPPED ON TOP

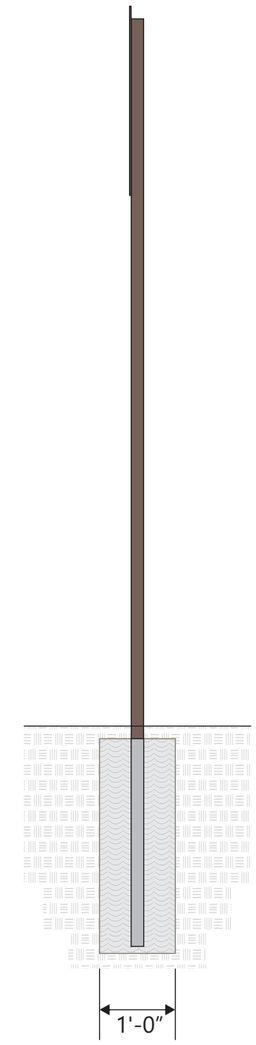
SIGN PANEL
3M #680-82 REFLECTIVE RED.

SIGN PANEL
3M #680-10 REFLECTIVE WHITE

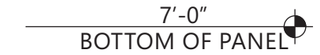
BACK OF SIGN PANEL AND POST
MATTHEWS #74155 DARK BRONZE

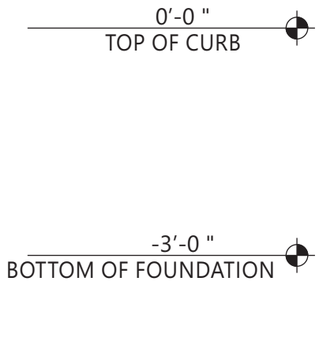


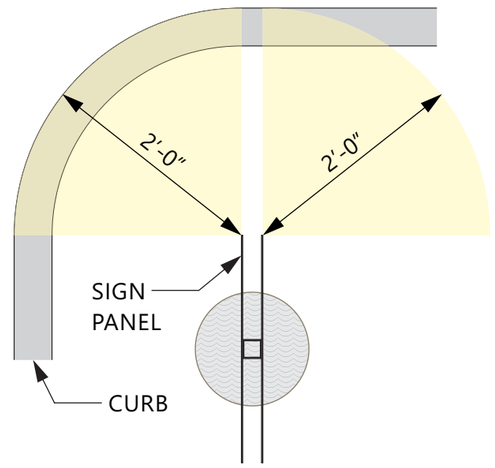
ELEVATION
SCALE - 1/2" = 1'- 0"



END VIEW
SCALE - 1/2" = 1'- 0"







PLAN VIEW
SCALE - 3/4" = 1'- 0"

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DOT REGULATORY TRAFFIC SIGNS

DRAWING FILE - CFA - WOODBRIDGE, NJ (WEST POND) SIGNAGE.CDR

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LOCATION
M

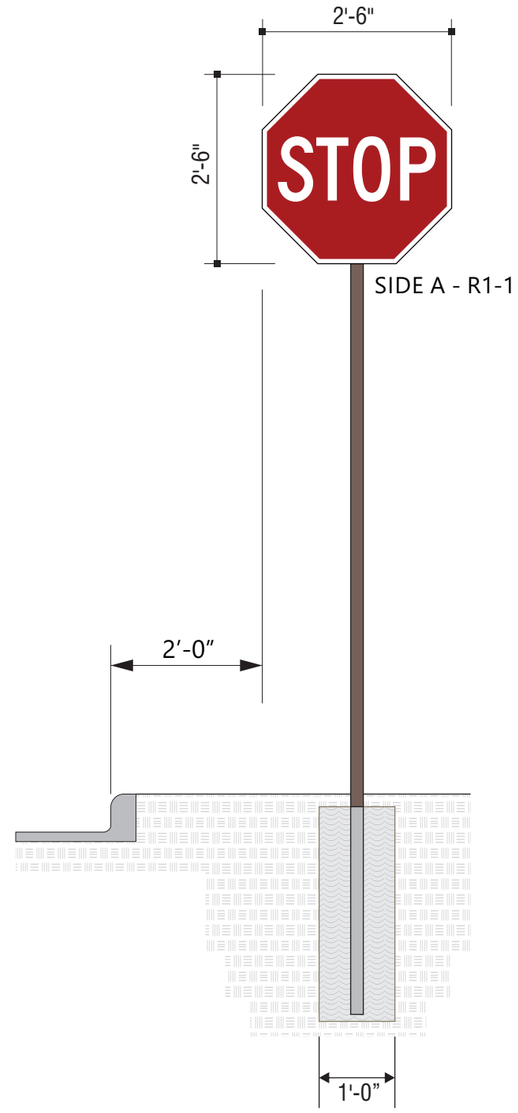
SPECIFICATIONS

SIGN PANELS
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WITH REFLECTIVE BACKGROUND
AND GRAPHICS.
SIGN POSTS
POSTS ARE 2" x 2" SQUARE
ALUMINUM TUBING CAPPED ON TOP

SIGN PANEL
3M #680-82 REFLECTIVE RED.

SIGN PANEL
3M #680-10 REFLECTIVE WHITE

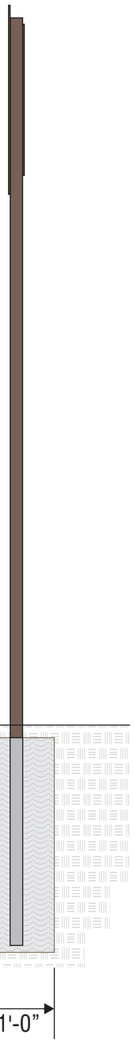
BACK OF SIGN PANEL AND POST
MATTHEWS #74155 DARK BRONZE



SIDE A - R1-1

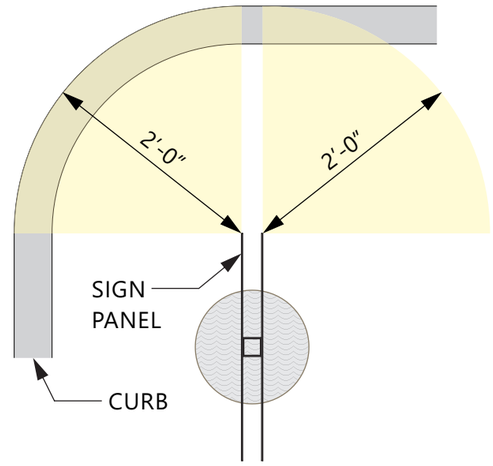


SIDE B - R5-1



ELEVATION
SCALE - 1/2" = 1'- 0"

END VIEW
SCALE - 1/2" = 1'- 0"



PLAN VIEW
SCALE - 3/4" = 1'- 0"

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DOT REGULATORY TRAFFIC SIGNS

DRAWING FILE - CFA - WOODBRIDGE, NJ (WEST POND) SIGNAGE.CDR

ALL ELECTRICAL SIGNS ARE 120 VOLTS UNLESS OTHERWISE INDICATED

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ACCOUNT REP.	Ben Holliday
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LOCATION
N

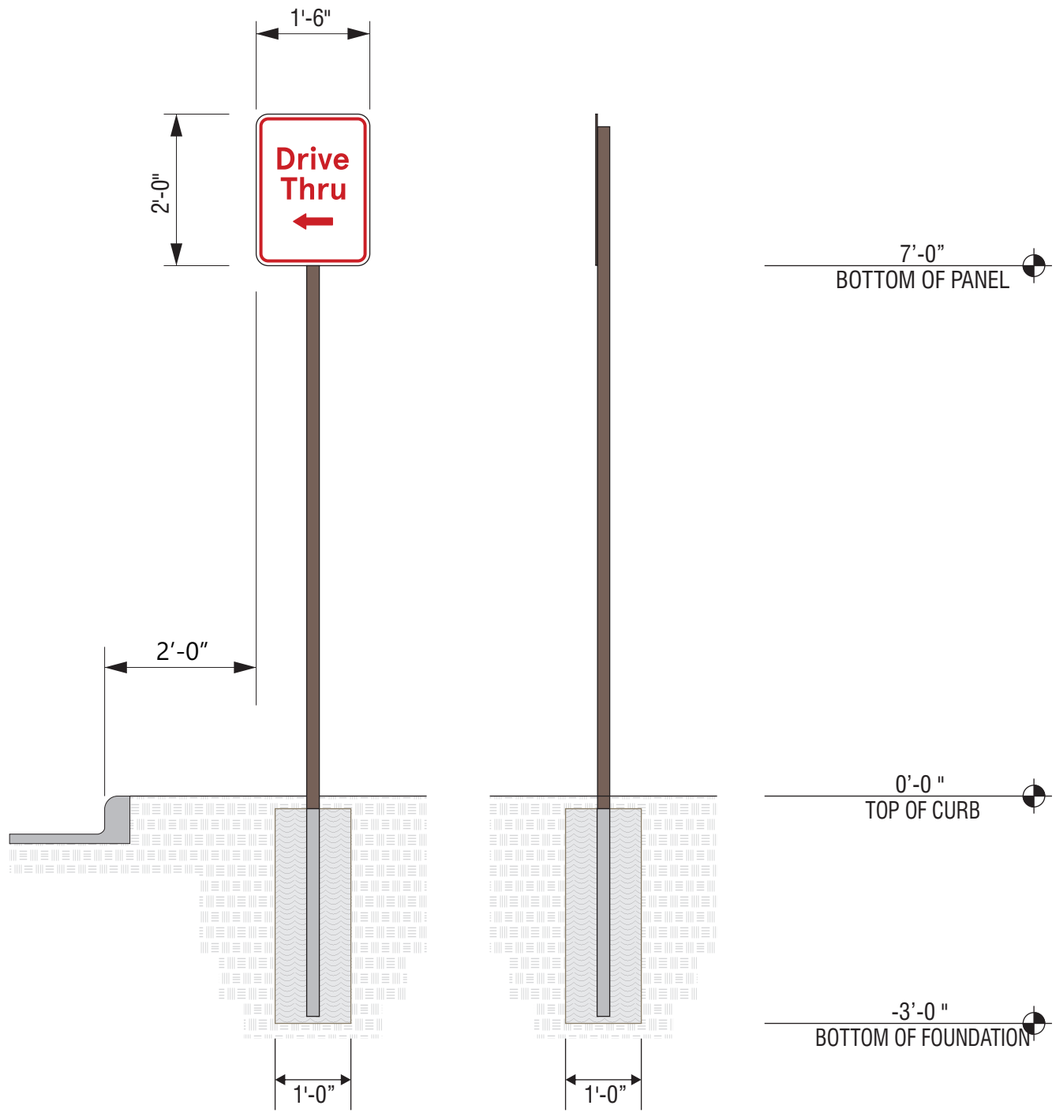
SPECIFICATIONS

SIGN PANELS
SIGNS PANELS
PANELS ARE .080" ALUMINUM. BACKS TO BE PAINTED
TO MATCH POSTS.
POSTS ARE 2" x 2" SQUARE ALUMINUM TUBING CAPPED ON TOP

SIGN PANEL
3M #680-82 REFLECTIVE RED.

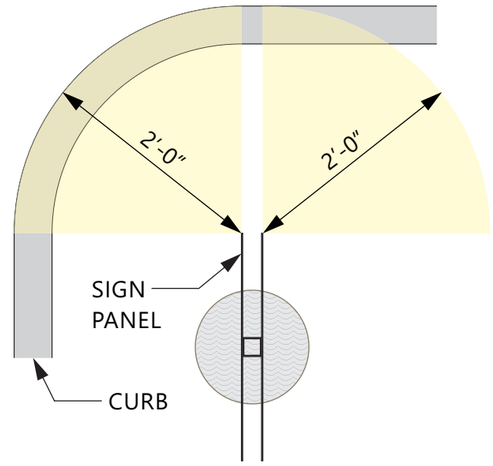
SIGN PANEL
3M #680-10 REFLECTIVE WHITE

BACK OF SIGN PANEL AND POST
MATTHEWS #74155 DARK BRONZE



ELEVATION
SCALE - 1/2" = 1'- 0"

END VIEW
SCALE - 1/2" = 1'- 0"



PLAN VIEW
SCALE - 3/4" = 1'- 0"

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DOT REGULATORY TRAFFIC SIGNS

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LOCATION
Q

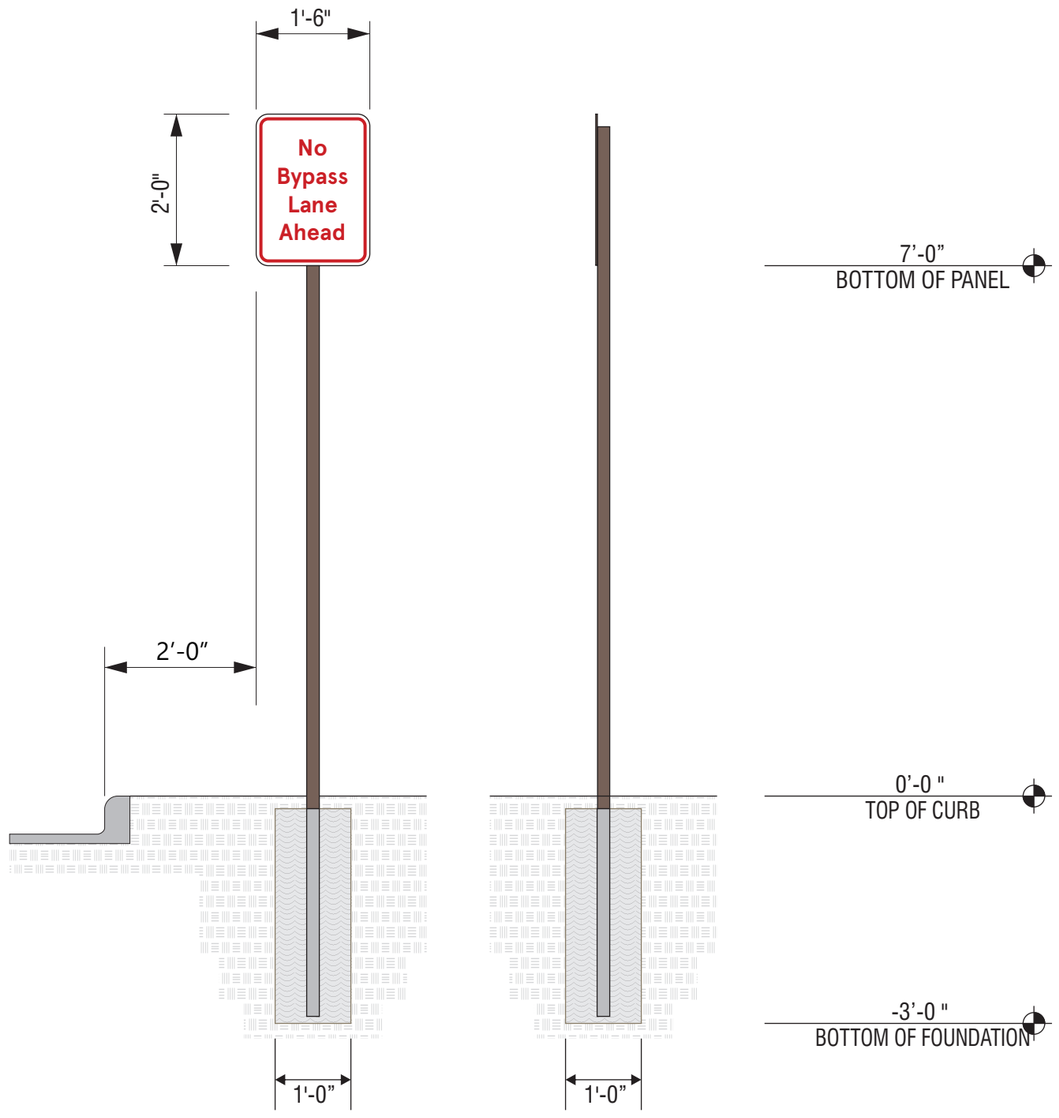
SPECIFICATIONS

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SIGN PANEL
3M #680-82 REFLECTIVE RED.

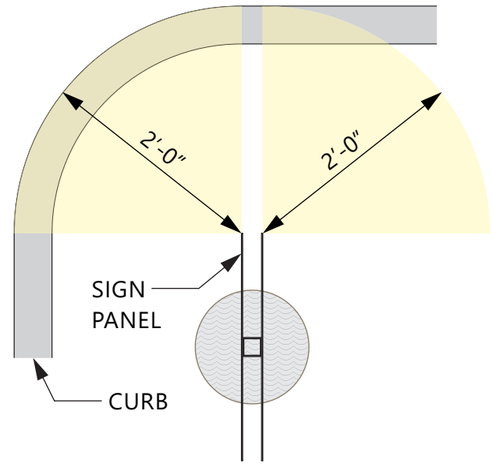
SIGN PANEL
3M #680-10 REFLECTIVE WHITE

BACK OF SIGN PANEL AND POST
MATTHEWS #74155 DARK BRONZE



ELEVATION
SCALE - 1/2" = 1'- 0"

END VIEW
SCALE - 1/2" = 1'- 0"



PLAN VIEW
SCALE - 3/4" = 1'- 0"

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DOT REGULATORY TRAFFIC SIGNS

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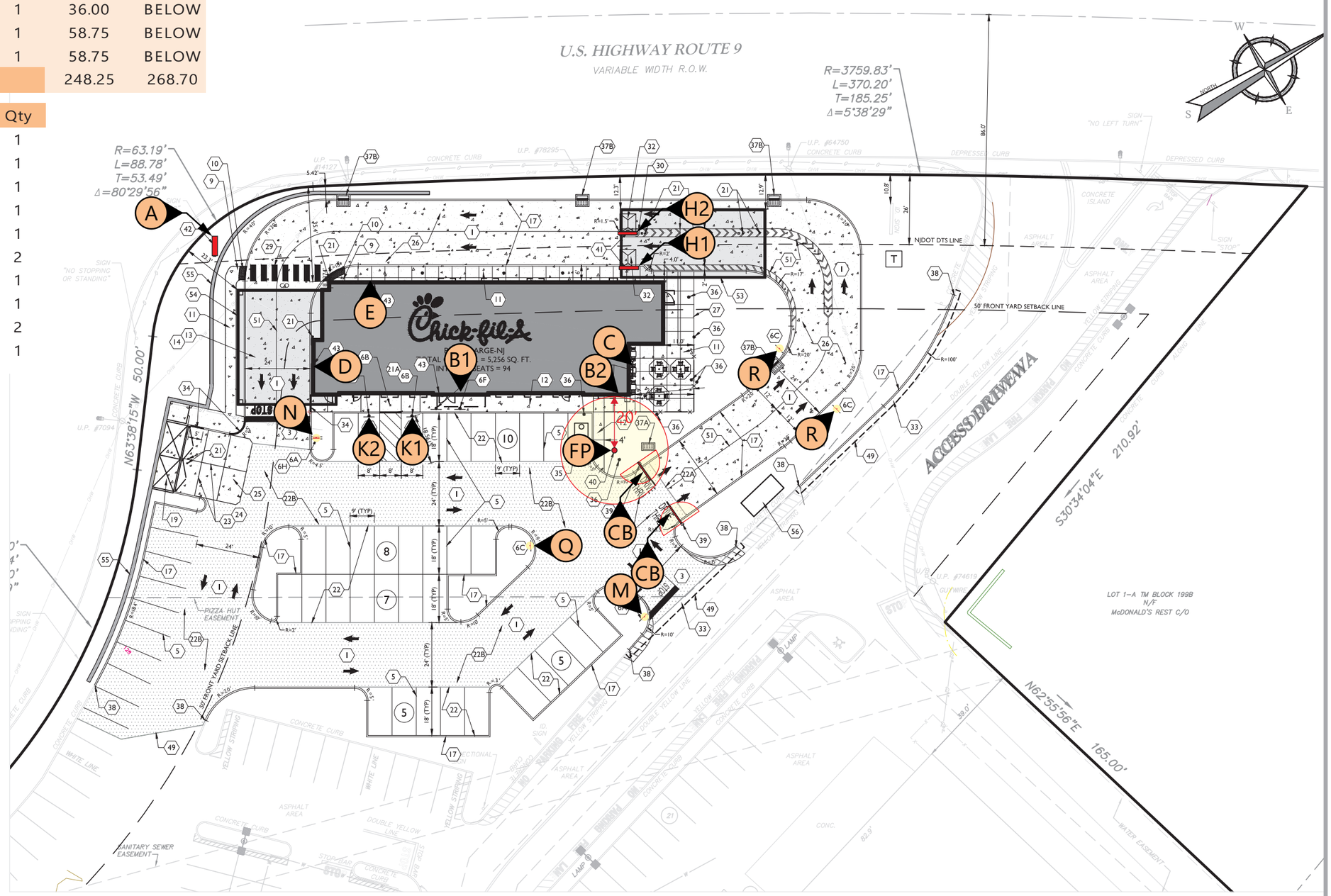
STORE NUMBER	STORE ADDRESS
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LOCATION
R

Item	Description	Qty	Sign Area	Allowed
A	Main ID Sign	1	75.00	12.50
B1	Wall Sign - Script 5' set	1	58.75	BELOW
B2	Wall Sign - Icon	1	36.00	BELOW
C	Wall Sign - Icon	1	36.00	BELOW
D	Wall Sign - Script 5' set	1	58.75	BELOW
E	Wall Sign - Script 5' set	1	58.75	BELOW
Aggregate Totals			248.25	268.70

Item	Description	Qty
K1	DOT - Handicapped Parking	1
K2	DOT - Handicapped Parking (Van)	1
M	DOT - Stop	1
N	DOT - Stop / Do Not Enter	1
Q	DOT - Drive Thru Left Arrow	1
R	DOT - No Bypass Lane Ahead	2
H1	Menu Board (Lane 1)	1
H2	Menu Board (Lane 2)	1
CB	Clearance Bar	2
FP	Flag pole (50') High Wind	1



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SITE PLAN

DRAWING FILE - CFA - WOODBRIDGE, NJ (WEST POND) SIGNAGE.CDR

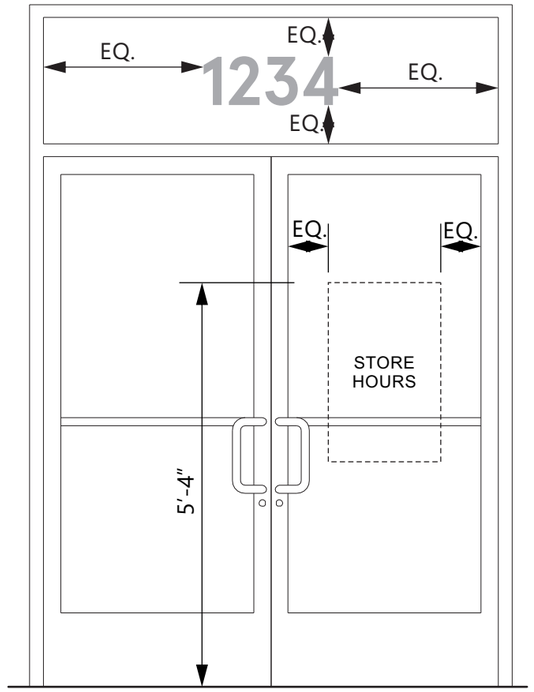
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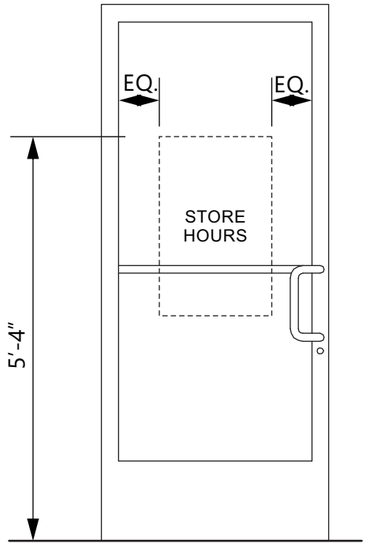
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SITE PLAN



ELEVATION

SCALE - 1/2" = 1'- 0"



ELEVATION

SCALE - 1/2" = 1'- 0"



ELEVATION

SCALE - 1 1/2" = 1'- 0"

LETTERING IS 3M #7725-10 OPAQUE WHITE VINYL FILM (SHOWN IN GREY FOR ILLUSTRATION)
CREDIT CARD LOGOS ARE INDIVIDUAL PRINTED DECALS ON CLEAR FILM.
ALL GRAPHICS ARE APPLIED TO EXTERIOR SURFACE OF GLASS.
STORE HOURS MAY BE DIFFERENT PER STORE.
SUNDAY HAS RED VINYL FILM STRIKE THROUGH ON IT.
PROVIDE EXTRA 6:00 PER EACH SET.

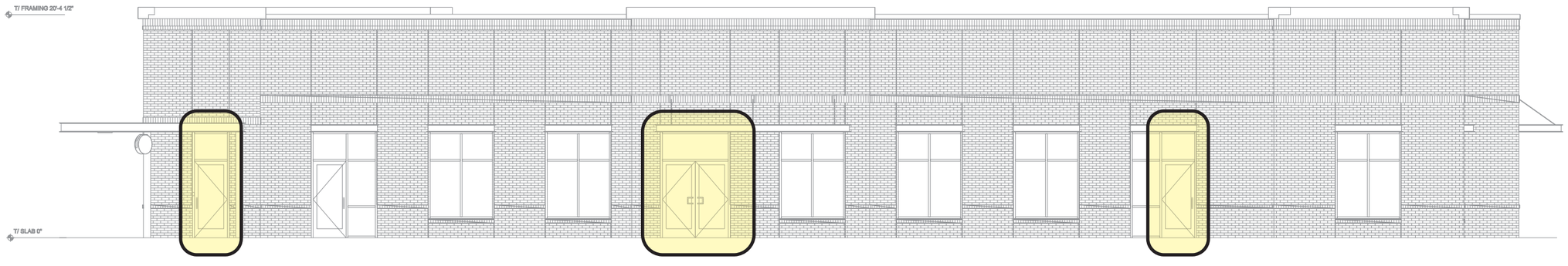


8" TALL ADDRESS NUMBERS ARE 3M #7725-10 OPAQUE WHITE VINYL FILM APPLIED TO EXTERIOR SURFACE OF GLASS. (SHOWN IN GREY FOR ILLUSTRATION)
APERCU BOLD FONT

VERIFY ADDRESS BEFORE MAKING NUMBERS

ELEVATION

NOT TO SCALE



CLAYTON Signs 50 YEARS SINCE 1965
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WINDOW GRAPHICS

DRAWING FILE - CFA - WOODBRIDGE, NJ (WEST POND) SIGNAGE.CDR

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