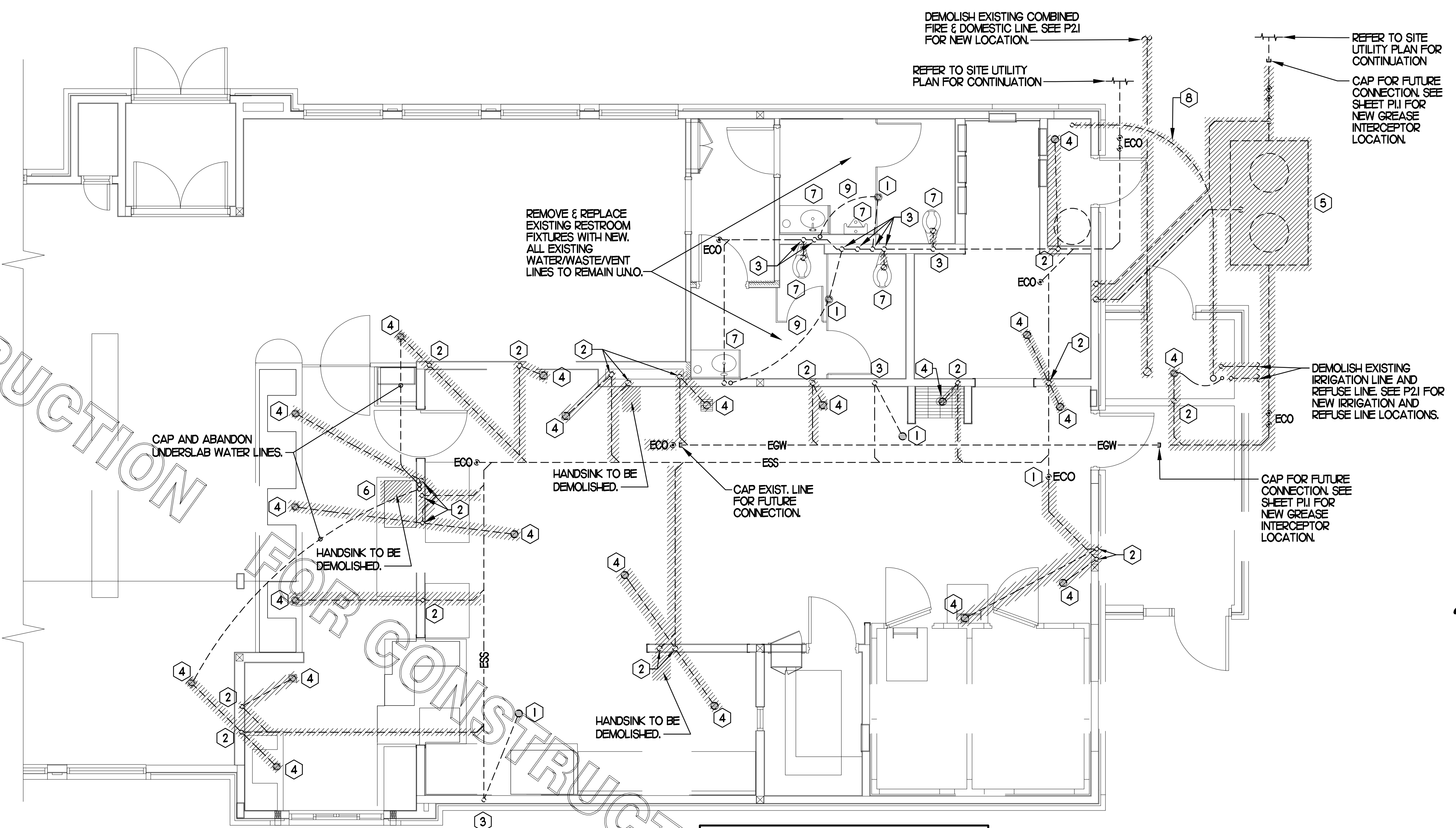


FOR CONSTRUCTION



PLUMBING CONTRACTOR SHALL CAP AND ABANDON ALL EXISTING WATER PIPING LOCATED BELOW SLAB AND WITHIN WALLS. WHERE WATER PIPING IS LOCATED IN ACCESSIBLE AREA OR WALL TO BE DEMOLISHED, PIPING SHALL BE DEMOLISHED.

NOTE
 PLUMBING CONTRACTOR SHALL CLEAN OUT THE EXISTING SANITARY SEWER LINE WITHIN SPACE TO MAIN BUILDING SEWER LINE WHICH SHALL BE FIELD VERIFIED EITHER AT THE STREET OR IN THE PARKING LOT AND ALSO VERIFY ALL NEW WASTE LINES ARE CLEAR. LINES SHALL BE CLEARED OF ALL EXISTING DEBRIS AND SHALL BE GUARANTEED THAT A CLEAR FLOW SHALL EXIST WHEN OFA TAKES POSSESSION. AFTER WASTE LINES ARE INSTALLED, PRIOR TO GRAVEL AND CONCRETE POUR, PLUMBING CONTRACTOR SHALL MAINTAIN THAT WASTE LINE STUB-UPS ARE CAPPED TO ENSURE THAT GRAVEL AND CONCRETE DO NOT ENTER PIPING.

PRIOR TO CONSTRUCTION, PLUMBING CONTRACTOR SHALL COORDINATE EXISTING LOCATIONS OF EXISTING WATER LINES (BUILDING SUPPLY, DUMPSTER PAD, FIRE SPRINKLER, ETC.) IF DEEMED NECESSARY, REROUTE NEW LINES, SIZED SAME AS EXISTING FROM BUILDING IN ORDER TO AVOID ANY CONFLICT WITH NEW BUILDING ADDITION. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PIPING & TRENCHING REQUIRED.

1 BELOW SLAB PLUMBING DEMOLITION PLAN
 SCALE: 1/4"=1'-0"

SHEET NOTES

- 1 VERIFY IF EXISTING SLAB IS A POST TENSION TYPE. CONTRACTOR IS REQUIRED TO PERFORM GROUND PENETRATING RADAR (GPR) TEST ON THE FLOOR PRIOR TO CUTTING FLOOR FOR KITCHEN DRAIN RELOCATIONS.
- 2 LOCATIONS OF WASTE LINES, VENTS, CW LINES & OTHER UNDER AND ABOVE GROUND ITEMS AS SHOWN ON THESE PLANS ARE APPROXIMATE AND THEIR ACTUAL LOCATION MAY VARY SIGNIFICANTLY. FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING LOCATION, FALL, DIRECTION OF FLOW AND CONNECTING INVERTS, PRIOR TO COMMENCING WORK. NOTIFY CHICK-FIL-A CONSTRUCTION REPRESENTATIVE IF EXISTING MAJOR DISCREPANCIES IN ROUTING OF SERVICE LINES ARE DISCOVERED IN FIELD.
- 3 IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE DURING BID PHASE, WITH EXISTING DRAWINGS PROVIDED BY THE OWNER, IN ORDER TO DETERMINE THE TRUE AS-BUILT CONDITIONS OF THE POTABLE WATER, SANITARY WASTE-VENT AND OTHER PIPING SYSTEMS.
- 4 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, STORING, AND RELOCATING EXISTING PLUMBING EQUIPMENT. PLUMBING CONTRACTOR TO COORDINATE DISCONNECTING OF EXISTING EQUIPMENT WITH GENERAL CONTRACTOR PRIOR TO COMMENCING WORK.
- 5 ALL LINES THAT ARE TO BE ABANDONED IN PLACE SHALL BE DEMOLISHED MIN. 6" BELOW SLAB, IN WALL OR ABOVE CEILING AND PLUGGED WATER/AIR TIGHT. ALL AFFECTED ADJACENT SURFACES SHALL BE REPAIRED AND REFINISHED TO MATCH SURROUNDING AREA.
- 6 VERIFY ALL FIXTURES THAT ARE TO BE REUSED ARE IN GOOD USABLE CONDITION. REPLACE FIXTURE IF DEFICIENCIES ARE FOUND
- 7 EXCEPT AS NOTED ON PLAN OR DETAILS, ALL NEW OR RELOCATED FLOOR DRAINS SHALL BE INSTALLED CENTERED IN 3 FT. DIAM. 1' DEEP SLAB DEPRESSION.
- 8 CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND LEVELING OF FLOOR DEPRESSIONS IN AREAS WHERE EXISTING FLOOR DRAINS, CLEANOUTS &/OR OTHER FLOOR ITEMS ARE BEING DEMOLISHED, ABANDONED OR RELOCATED.

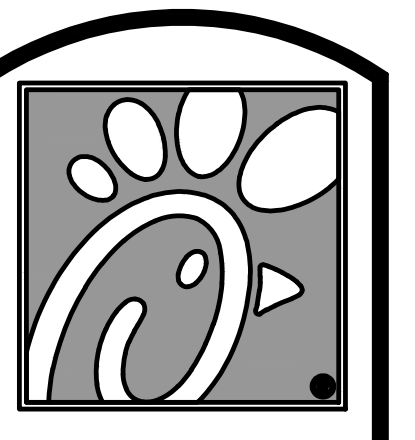
KEY NOTES

- 1 EXISTING FLOOR FIXTURE TO REMAIN. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING FIXTURE IS CLEAR AND USABLE AND TRAP PRIMER (IF EXISTING) IS WORKING PROPERLY. IF DEFICIENCIES FOUND IN FIELD, REPLACE PRIMER &/OR WATER SUPPLY LINE OR REPLACE FIXTURE AS NECESSARY.
- 2 DEMOLISH EXISTING VENT IN WALL AND CAP OFF ABOVE CEILING AND BELOW SLAB. VENT BELOW SLAB SHALL BE CAPPED OFF JUST ABOVE TAKE-OFF FROM WASTE LINE.
- 3 EXISTING VENT TO REMAIN IN WALL.
- 4 DEMOLISH EXISTING FLOOR FIXTURE OR ABOVE SLAB FIXTURE, IF NECESSARY, PREPARE LINES FOR CONNECTION OF NEW FIXTURE OR EXTENSION. REFER TO P11. COORDINATE WORK WITH G.C. IF FLOOR DRAIN IS DEMOLISHED, IF EXISTING, CAP WATER LINE FROM TRAP PRIMER.
- 5 REMOVE EXISTING GREASE INTERCEPTOR. DEMOLISH ALL LINES FROM EXISTING GREASE INTERCEPTOR TO POINTS OF CONNECTION INDICATED ON P11 AND CIVIL PLANS. COORDINATE WITH SITE & NEW CONSTRUCTION WORK. CAP EXISTING LINES FOR FUTURE CONNECTION WHERE SHOWN.
- 6 PLUMBING CONTRACTOR SHALL DEMOLISH EXISTING TRAP PRIMER LOCATED BELOW COUNTER AND CAP OFF AND ABANDON EXISTING WATER PIPING BELOW SLAB.
- 7 DEMOLISH EXISTING RESTROOM FIXTURE. CAP WASTE CONNECTION BELOW SLAB, WHERE APPLICABLE, CAP EXISTING VENT/CW/HW CONNECTIONS BACK TO RESPECTIVE MAINS FOR FUTURE CONNECTION.
- 8 CAP AND ABANDON BELOW SLAB WATER LINE. CAP BUILDING WATER LINE PRIOR TO ROUTING BELOW SLAB. SEE SHEET P21 FOR NEW ROUTING OF BUILDING WATER LINE.
- 9 EXISTING WATER LINES IN WALL AND BELOW SLAB SERVING RESTROOMS ARE TO REMAIN. SEE P11 AND P21 FOR CONNECTION NOTES.

SITE PIPING DEMO NOTES

- CAREFULLY EXAMINE & VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ANY DEMOLITION WORK. FIELD VERIFY ALL SERVICE LINES LOCATIONS, DIAMETERS, ROUTING, INVERTS ETC.
- REFER TO SITE PLAN FOR EXACT LOCATION OF EXISTING GREASE INTERCEPTOR AND ALL SITE PIPING.

PIPING LEGEND	
EXISTING GREASE WASTE (EGW)	--- EGW ---
EXISTING SANITARY SEWER (ESS)	--- ESS ---
EXISTING FILTERED WATER UNDER GROUND (EFW)	--- EFW ---
EXISTING COLD WATER UNDER GROUND (ECW)	--- ECW ---
EXISTING TEMPERED WATER UNDER GROUND (ETW)	--- ETW ---
EXISTING HOT WATER UNDER GROUND (EHW)	--- EHW ---
EXISTING LINE/FIXTURE TO BE DEMOLISHED	
EXISTING WATER LINES IN WALL TO BE DEMOD	∞



Chick-fil-A

5200 Buffington Rd.
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 30349-2998

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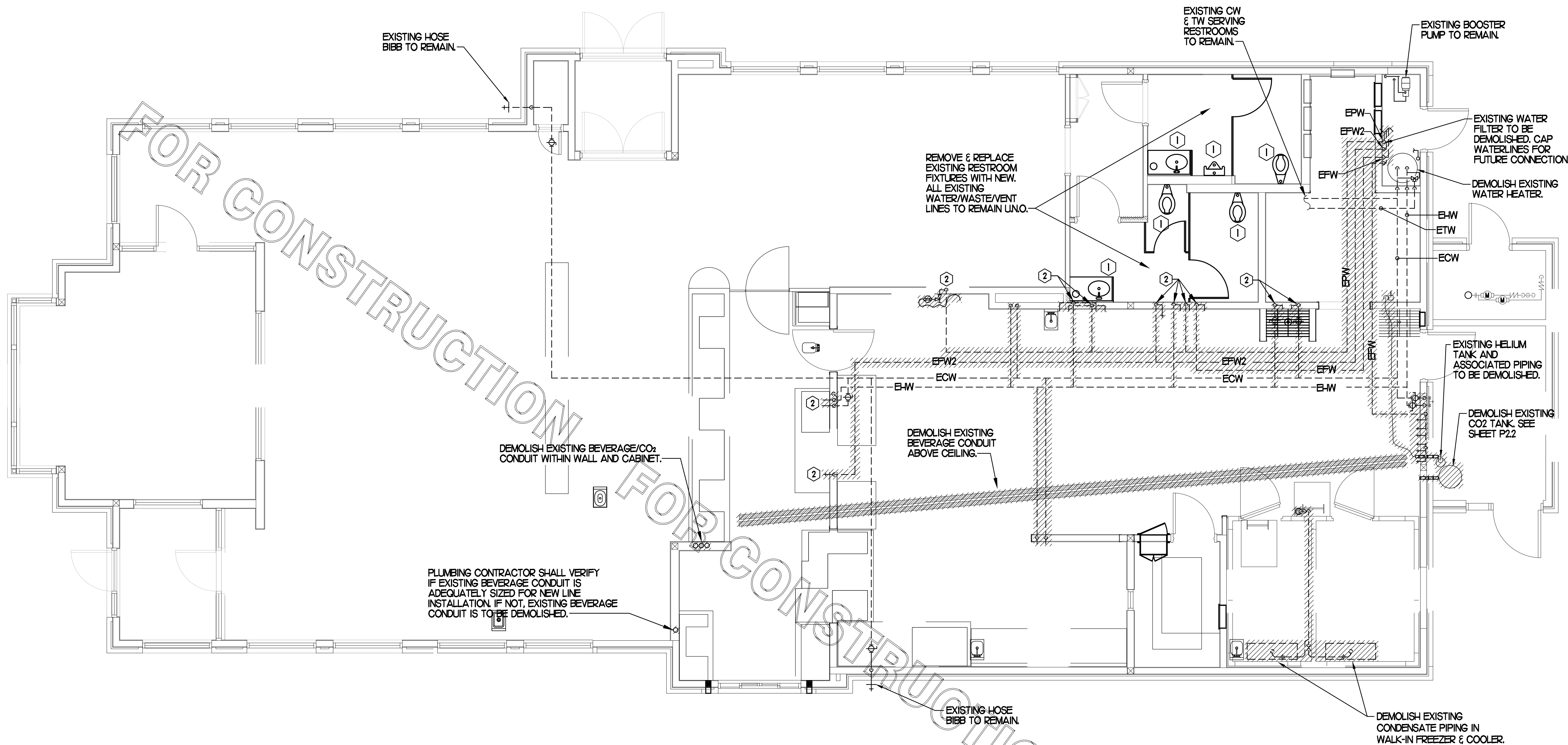
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SHEET TITLE
 BELOW SLAB
 PLB DEMO PLAN

VERSION: S06C-R
 ISSUE DATE: 6.28.2022

Job No.: 20133.CD.R
 Store: #2182
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 Checked By: MK

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I ABOVE SLAB PLUMBING DEMOLITION PLAN
SCALE: 1/4"=1'-0"

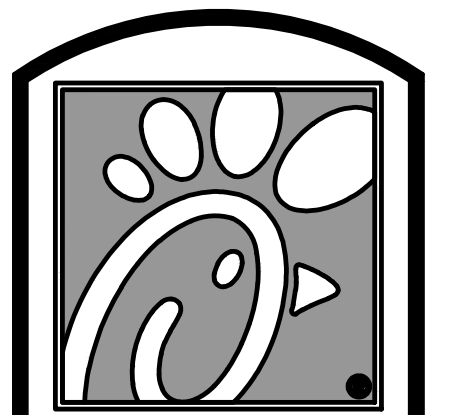
SITE PIPING DEMO NOTES

- CAREFULLY EXAMINE & VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ANY DEMOLITION WORK. FIELD VERIFY ALL SERVICE LINES LOCATIONS, DIAMETERS, ROUTING, INVERTS ETC.
- REFER TO SITE PLAN FOR EXACT LOCATION OF EXISTING GREASE INTERCEPTOR AND ALL SITE PIPING.

PIPING LEGEND	
EXISTING GREASE WASTE (EGW)	---EGW---
EXISTING SANITARY SEWER (ESS)	---ESS---
EXISTING FIRE PROTECTION LINE (4F)	---4F---
EXISTING COLD WATER UNDER GROUND (ECW)	---ECW---
EXISTING TEMPERED WATER UNDER GROUND (ETW)	---ETW---
EXISTING HOT WATER UNDER GROUND (EHW)	---EHW---
EXISTING LINE/FIXTURE TO BE DEMOLISHED	//////
EXISTING WATER LINE(S) IN WALL TO BE DEMOD	∞

KEY NOTES

- DEMOLISH EXISTING RESTROOM FIXTURE, CAP EXISTING WATER LINES AND WASTE/VENT LINES WITHIN WALL. PREPARE LINES FOR CONNECTION TO NEW FIXTURE. SEE SHEET P11 AND P21.
- DEMOLISH HOT AND/OR COLD AND/OR FILTERED WATER LINES IN WALL AND CAP OFF ABOVE CEILING AND/OR BELOW SLAB.



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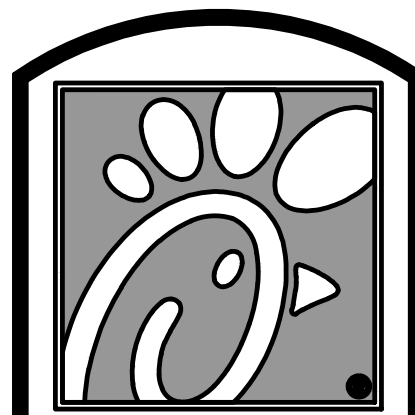
SHEET TITLE
BELOW SLAB
PLB DEMO PLAN

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SHEET TITLE
BELOW SLAB
PLUMBING PLAN

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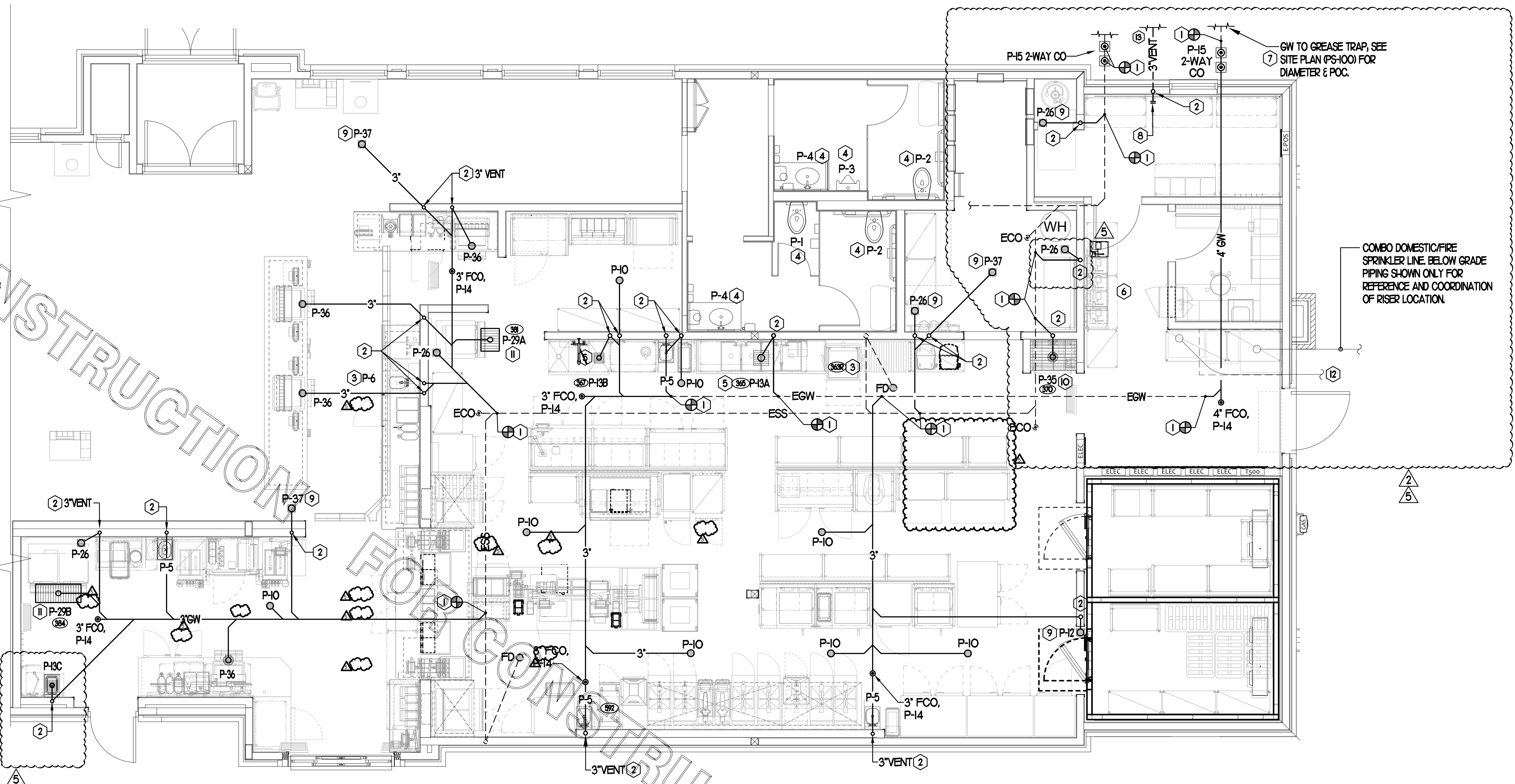
MOP SINK NOTE
IMPORTANT: INSTALL P-35 FLOOR DRAIN WITH TOP OF DRAIN 0'-7" BFF. COORDINATE WITH GENERAL CONTRACTOR. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.

- SHEET NOTES**
- COORDINATE INSTALLATION OF SANITARY PIPING WITH FOOTINGS IN THE FIELD. SLEEVE ALL NEW AND EXISTING PIPING PENETRATIONS IN FOOTINGS WITH PVC.
 - WHERE REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION, PROVIDE SAFE-WASTE SYSTEM AS OUTLINED IN STATE AND LOCAL CODE AMENDMENTS.
 - ALL WATER PIPING INSTALLED WITHIN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE INSULATION.
 - ALL VENT PIPING TO BE 1/2" DIAMETER UNO.

- SITE PIPING NOTES**
- CAREFULLY EXAMINE & VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REFER TO SITE PLAN FOR EXACT LOCATION OF EXISTING & NEW GREASE INTERCEPTOR AND ALL SITE PIPING.
 - CLOSELY COORDINATE INSTALLATION W/ EARTH WORK.
 - PROVIDE PVC SLEEVES ON ALL PIPING PENETRATING EXISTING OR NEW FOUNDATIONS.

PLUMBING CONTRACTOR SHALL VERIFY LOCATION, INVERT ELEVATION AND FLOW DIRECTION OF EXISTING LINE PRIOR TO ANY WORK. COORDINATE WITH ALL OTHER UTILITIES LOCATED BELOW GROUND PRIOR TO ANY EARTHWORK.

PLUMBING CONTRACTOR SHALL ROUTE ALL NEW VENT LINES SHOWN AND NOTED UP IN WALL AND TO ABOVE CEILING AND MAKE CONNECTION TO NEAREST VENT HEADER THE SAME SIZE OR LARGER.



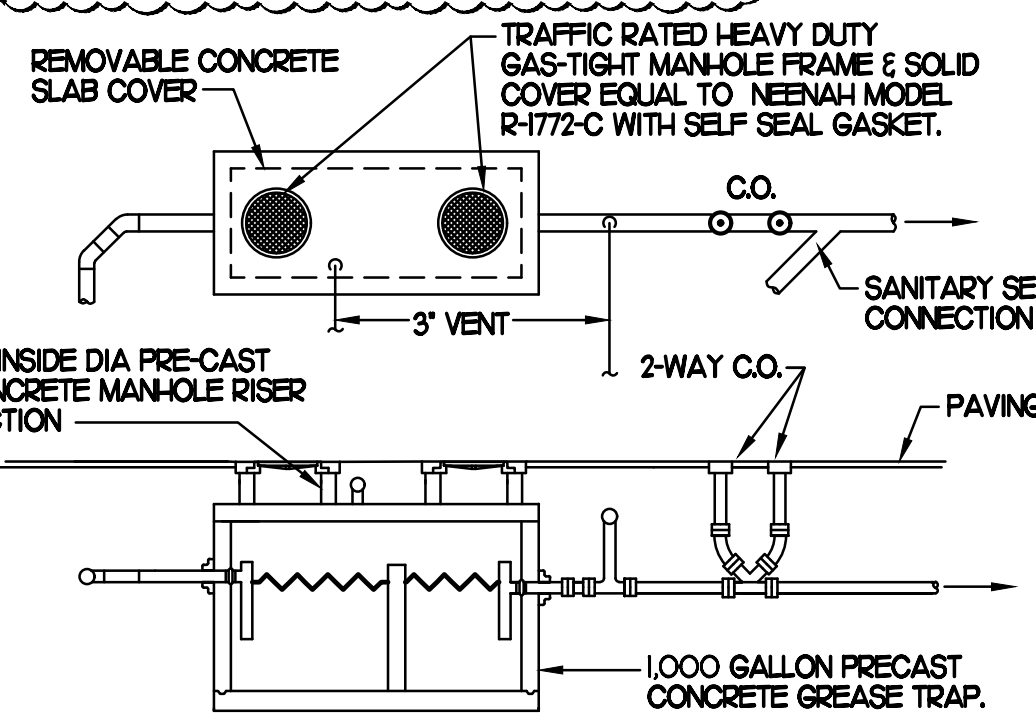
1 BELOW SLAB PLUMBING PLAN
SCALE: 1/4"=1'-0"

NOTE:
PLUMBING CONTRACTOR SHALL CLEAN OUT (C/O) THE EXISTING SANITARY SEWER LINE TO MAIN BUILDING SEWER LINE TO CONNECTION AT THE STREET OR IN THE CENTER PARKING LOT AT CONNECTION TO MAIN LINE, AND ALSO VERIFY NEW SEWER LINE IS CLEAR. THIS LINE SHALL BE CLEARED OF ALL EXISTING DEBRIS AND SHALL BE GUARANTEED THAT A CLEAR FLOW SHALL EXIST WHEN THE TENANT TAKES POSSESSION.

KEY NOTES

- CONNECT NEW WASTE AND/OR VENT LINE TO EXISTING AS SHOWN. VERIFY FALL, FLOW DIRECTION AND CONNECTING INVERTS. PROVIDE VENT CONNECTION TO EXISTING SYSTEM WHERE APPLICABLE.
- ROUTE NEW VENT LINE UP IN WALL TO ABOVE CEILING. MAKE CONNECTION TO EXISTING VENT HEADER OF SAME SIZE OR LARGER. WHERE DRAIN IS LOCATED IN NEW ADDITION, ROUTE VENT LINE UP IN WALL AND ABOVE CEILING INTO EXISTING BUILDING AND MAKE NECESSARY CONNECTION.
- ROUTE DRAIN LINE FULL SIZE TO FLOOR SINK LOCATED BELOW POT SINK AND TERMINATE WITH CODE APPROVED AIR GAP.
- INSTALL NEW PLUMBING FIXTURE. MAKE CONNECTION TO EXISTING WASTE LINE LOCATED BELOW SLAB/WITHIN WALL. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL PIPE REQUIRED.
- PROVIDE AND INSTALL NEW WASTE PIPING BELOW KITCHEN SINK. PROVIDE 1/2" SCHED 40 PVC INDIRECT WASTE DRAIN FROM EACH SINK BASIN TO FLOOR SINK. NO P-TRAPS REQUIRED. MANIFOLDS ARE NOT ALLOWED, ONLY IF REQUIRED BY A.H.J.
- OWNER PROVIDED, PLUMBER INSTALLED STOP/BFP PANEL. SEE K-SHEET ELEVATIONS FOR EXACT LOCATION. ROUTE 1" DIA SCHED 40 PVC BFP DRAIN TIGHT TO WALL TO TERMINATE AT FLOOR DRAIN.
- PROVIDE AND INSTALL NEW GREASE INTERCEPTOR. REFER TO DETAIL 2/P FOR REQUIREMENTS. REFER TO SITE PLAN SHEET PS-100 FOR LOCATION AND ALL CONNECTIONS. FIELD VERIFY WITH SITE & NEW CONSTRUCTION WORK. SEE POI FOR DEMOLITION REQUIREMENTS.
- NEW 3" DIAMETER VENT PIPING UNDER GROUND AND RISER IN WALL. INSTALL WALL CLEANOUT W/ CLEANOUT PLUS CHARLOTTE PIPE NO. 445-X ON RISER AT 3'-0" ABOVE GRADE TO CENTER OF PLUS. INSTALL J.R. SMITH 4760-12X12 ACCESS DOOR.
- PROVIDE WITH TRAP SEAL PROTECTOR.
- INSTALL FLOOR DRAIN P-35 AT MOP SINK DEPRESSION WITH TOP OF STRAINER 0'-7" BFF.
- TRANSITION OUTLET OF DRAIN FROM 4" DIA. TO 3" DIA. DRAIN LINE AND TRAP.
- PLUMBING CONTRACTOR SHALL COORDINATE LOCATION OF NEW WATER LINE SERVING REFUSE PAD. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A NEW 3/4" CW LINE BELOW GRADE/SLAB TO EXISTING HYDRANT LOCATED AT REFUSE PAD. SEE CIVIL DRAWINGS FOR CONTINUATION.
- ROUTE UNDER GROUND VENT TO GREASE TRAP. REFER TO SITE PLAN AND DETAIL 2/P FOR VENT CONNECTIONS AT GREASE TRAP.

NOTE:
PLUMBING CONTRACTOR SHALL VERIFY WITH MONTGOMERY COUNTY HEALTH DISTRICT THE SIZE OF GREASETRAP REQUIRED PRIOR TO ORDERING SIZE SHOWN.



NOTES:
1. SET ON 0'-4" OF STRUCTURAL BACKFILL.
2. INTERIOR DIMENSIONS CHANGES ALLOWED TO ACCOMPLISH REQUIRED 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
SCALE: NONE

FLOOR FIXTURE ELEVATIONS

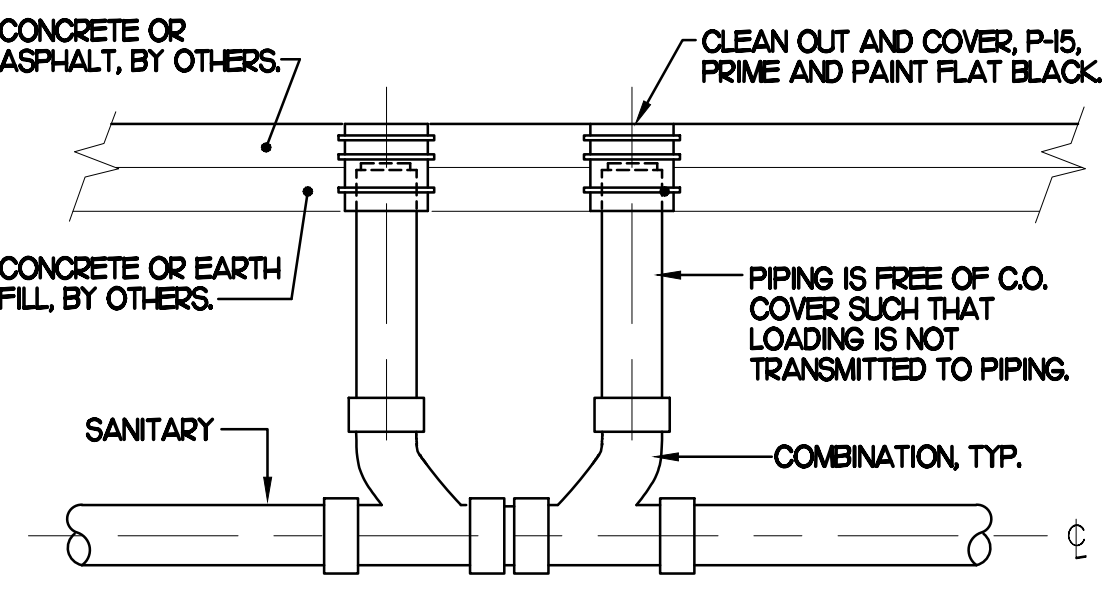
IMPORTANT! INSTALL THE FLOOR FIXTURE SUCH THAT THE TOP-OF-RIM ELEVATION IS AS FOLLOWS:

FIXTURE	TYPE	RIM ELEVATION
P-10	FLOOR DRAIN	1/4" BFF
P-35	MOP SINK DRAIN	7" BFF
P-36	INDIRECT WASTE RECEIVER	1/4" BFF
P-37	FLOOR DRAIN	1/4" BFF

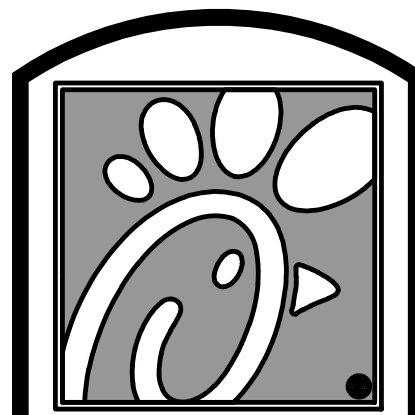
NOTE: THE RIM ELEVATIONS SHOWN HERE SHOULD MATCH THE DEPRESSED SLAB. CONFIRM WITH ARCHITECTURAL PLANS. SEE ARCHITECTURAL PLANS FOR FLOOR SLOPE AT SLAB DEPRESSION FOR FIXTURES INSTALLED BELOW FINISHED FLOOR ELEVATION. FLOOR FIXTURES NOT LISTED HERE SHALL BE INSTALLED FLAT AND FLUSH WITH FINISHED FLOOR ELEVATION.

PIPING LEGEND (This Sheet)

EXISTING FLOOR DRAIN	FD
EXISTING FLOOR SINK	FS
EXISTING GREASE WASTE (EGW)	EGW
NEW GREASE WASTE (EGW)	GW
EXISTING SANITARY SEWER (ESS)	ESS
EXISTING COLD WATER UNDER GROUND (ECW)	ECW
EXISTING HOT WATER UNDER GROUND (EHW)	EHW
EXISTING TEMPERED WATER UNDER GROUND (ETW)	ETW
NEW WATER UNDER GROUND (CW, HW, TW OR FW/FW2)	CW
POINT OF CONNECTION	+
FLOOR DRAIN	⊕
FLOOR SINK	⊙
FLOOR/EXTERIOR CLEANOUT	⊗



4 SAN. C.O. OUTSIDE BUILDING
SCALE: NONE



Chick-fil-A

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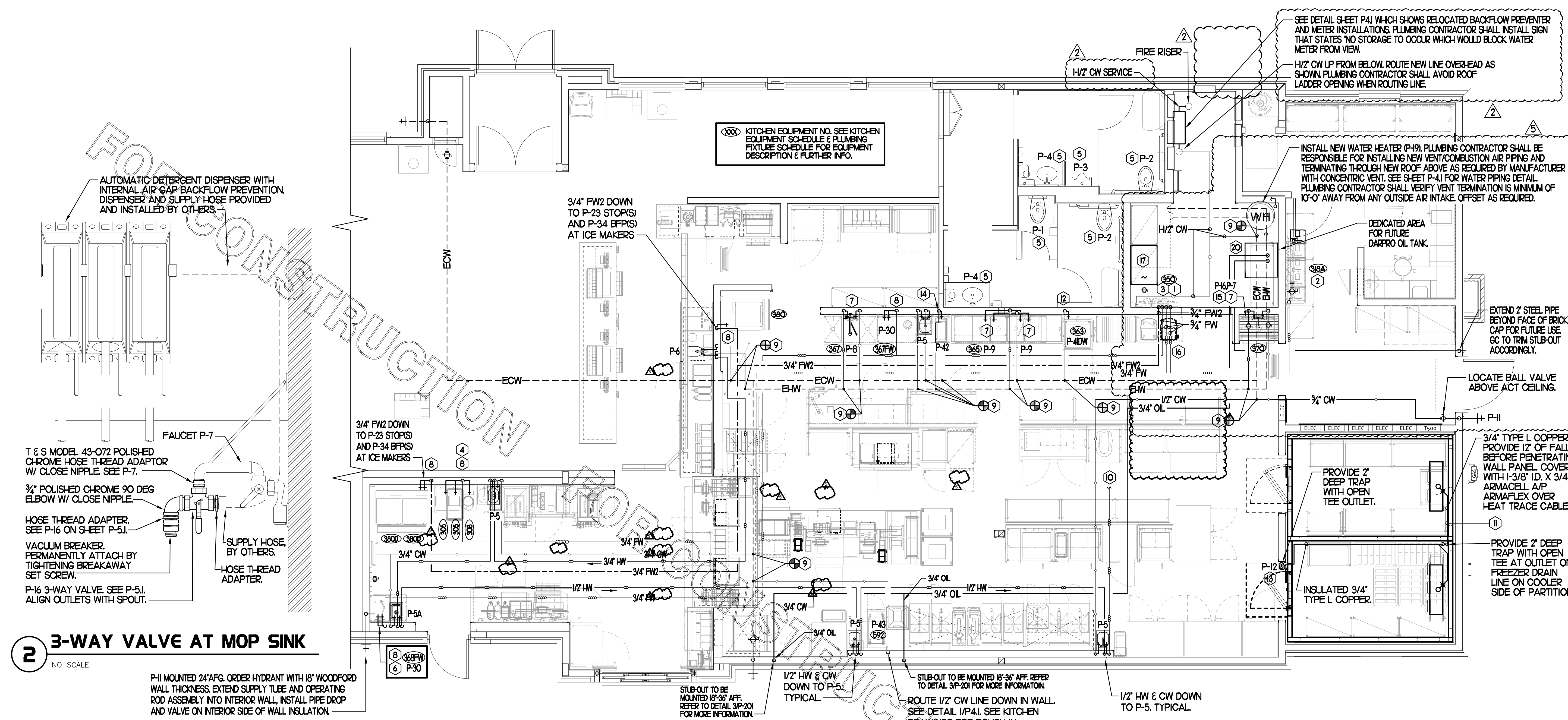
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P2.I



2 3-WAY VALVE AT MOP SINK

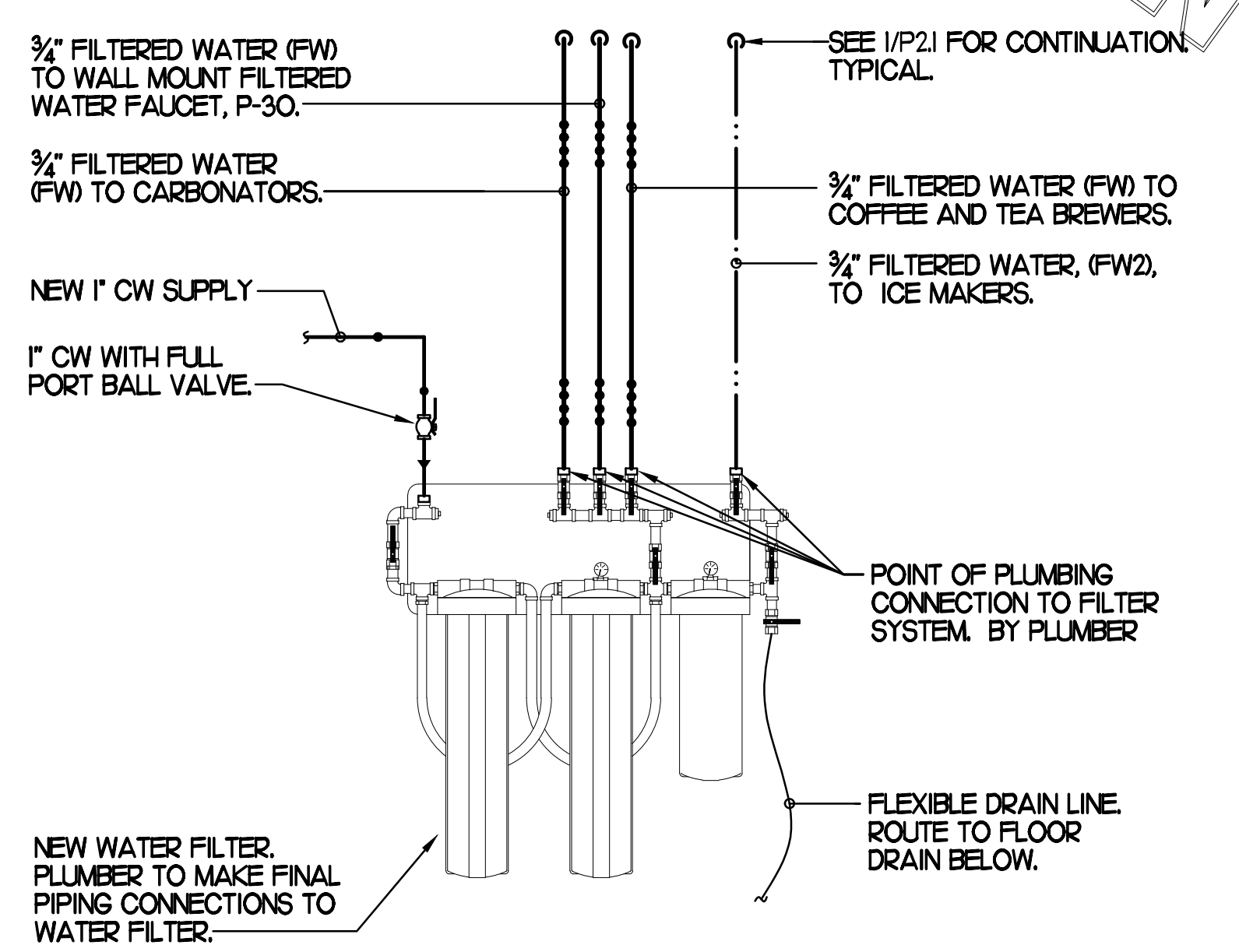
NO SCALE
P-11 MOUNTED 24" AFG. ORDER HYDRANT WITH 18" WOODFORD WALL THICKNESS. EXTEND SUPPLY TUBE AND OPERATING ROD ASSEMBLY INTO INTERIOR WALL. INSTALL PIPE DROP AND VALVE ON INTERIOR SIDE OF WALL INSULATION.

KEY NOTES

- NEW WATER FILTERS. SEE DETAIL 9/P2.I.
- OWNER PROVIDED, PLUMBER INSTALLED STOP/BFP PANEL. SEE K-SHEET ELEVATIONS FOR EXACT LOCATION. PROVIDE EXPOSED 3/4" BALL VALVE AT CONNECTION TO PANEL.
- FW & FW2 LINES FROM WATER FILTRATION SYSTEM; REFER TO DETAIL ON P2.I.
 - 3/4" FW TO CARBONATOR
 - 3/4" FW TO JUICE STATION
 - 3/4" FW TO COFFEE & TEA MAKERS
 - 3/4" FW2 TO ICE MACHINES
- 1/2" FW TO P-24 & P-34 AT TWO (2) TEA BREWERS AND ONE (1) COFFEE BREWER. SEE DETAIL 6, SHEET P4.I.
- INSTALL NEW FIXTURE IN RESTROOM, RECONNECT TO EXISTING CW &/OR TW, VENT & SANITARY SEWER SERVICES, RECONNECT TRAP PRIMER CW LINE WHERE APPLICABLE.
- 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.
- PROVIDE 1/2" HW & CW CONNECTIONS TO FIXTURE.
- INSTALL SHOCK ABSORBER (P-25) AT TOP OF WATER LINE DROP DOWN TO FIXTURE.
- MAKE CONNECTION TO EXISTING HW, CW AND/OR FW LINES.
- 1/2" HOT WATER RETURN LINE. MAKE CONNECTION TO CW INLET SIDE OF WATER HEATER. SEE DETAIL ON SHEET P4.I.
- APPLY RAYCHEM XL-TRACE, MODEL 5XL-I, SELF REGULATING HEATING CABLE. USE END SEAL KIT FROM MANUFACTURER. CONTRACTOR SHALL HEAT TRACE ENTIRE LENGTH OF CONDENSATE PIPING UNTIL TERMINATION POINT.
- 3/4" CW DOWN TO DISH-WASHER. SEE K-SHEETS FOR ELEVATION AND ROUGH-IN HEIGHT.
- TURN 3/4" CONDENSATE PIPING OUT OF COOLER/FREEZER AND EXTEND OUTLET TO P-12 FUNNEL DRAIN. SECURE PIPING TO COOLER WALL WITH RUBBER INSULATED PIPE CLAMPS TO PREVENT GALVANIC CORROSION. SEAL ALL PENETRATIONS IN WALLS WITH PERMAGUM CORD. TERMINATE ABOVE FUNNEL DRAIN WITH ELBOW AND AIR GAP. PROVIDE P-TRAP IN CONDENSATE DRAIN OUTSIDE COOLER/FREEZER WITH OPEN-TOPPED TEE AT TRAP OUTLET.
- ROUTE 1/2" HW & CW TO P-42 EMERGENCY EYEWASH MIXING VALVE. ROUTE 1/2" TW FROM P-42 VALVE TO EMERGENCY EYEWASH STATION.
- INSTALL P-16 3-WAY VALVE WITH BACKFLOW PREVENTER ON P-7 FAUCET SPOUT FOR CONNECTION TO ECOLAB DETERGENT DISPENSER. SEE DETAIL THIS SHEET. PROVIDE BALL VALVE FOR EACH WATER LINE ABOVE CEILING WITH P-22 BALL CHECK VALVE IN EACH DROP.
- ROUTE FILTERED WATER LINES OVERHEAD TO NEW WATER FILTER LOCATION IN MECHANICAL ROOM AS SHOWN. MAKE CONNECTION TO WATER FILTRATION SYSTEM AS SHOWN ON DETAIL 9 THIS SHEET.
- WATER SOFTENER SYSTEM TO BE LOCATED WITHIN OUTLINED AREA. SEE DETAIL 6/P-31 FOR WATER SOFTENER SYSTEM AND WATER LINE CONNECTIONS FOR BUILDING WATER CONNECTION. PROVIDE AND INSTALL 1/2" WATTS LFJ009 REDUCED PRESSURE BACKFLOW PREVENTER ON INLET SIDE OF SOFTENER SYSTEM. ROUTE DRAIN LINE DOWN TO EXISTING FLOOR SINK LOCATED BELOW.

1 ABOVE SLAB PLUMBING PLAN

1/4" = 1'-0"



9 WATER FILTER RISER PIPING

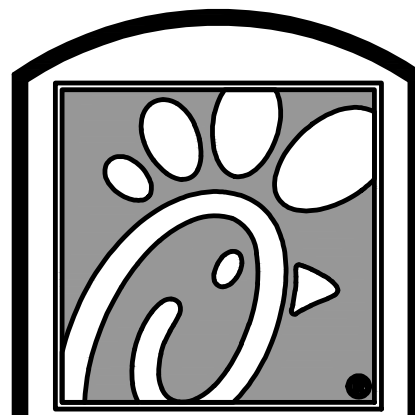
NO SCALE

SHEET NOTES

- COORDINATE VENT TERMINAL LOCATIONS WITH FRESH AIR HOODS ON ROOFTOP EQUIPMENT SO AS TO MAINTAIN MINIMUM 15'-0" CLEARANCE.
 - HOLD ALL PIPING ABOVE THE CEILING TIGHT TO STRUCTURE. DUCT LOCATIONS TAKE PRIORITY. SEE DRAWING M.I. FOR DUCT LAYOUT. COORDINATE CONFLICTS WITH GC.
 - SEE K-SHEET ELEVATIONS FOR KITCHEN EQUIPMENT WATER PIPING ROUGH-IN LOCATIONS.
 - VERIFY WALL TYPE AND WALL THICKNESS AT EXTERIOR HOSE BIBBS PRIOR TO ORDERING EQUIPMENT.
 - 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.
 - UNLESS NOTED OTHERWISE, WATER PIPING SHALL BE COPPER OR CPVC AS LISTED IN SPECIFICATIONS. SEE SPECIFICATIONS.
 - BEVERAGE CONDUITS ARE SHOWN STAGGERED FOR ILLUSTRATION PURPOSES ONLY. ROUTE CONDUITS AS PRACTICAL, AS HIGH AS POSSIBLE AND TIGHT TO STRUCTURE. AVOID CONFLICTS W/ OTHER TRADES.
- KEY FOR METER ROOM ACCESS DOOR TO BE SUPPLIED TO M.C.E.S.

PIPING LEGEND

EXISTING COLD WATER (ECW)	--- ECW ---
EXISTING HOT WATER (EHW)	--- EHW ---
EXISTING FILTERED WATER (EFW)	--- EFW ---
POINT OF CONNECTION	⊕
NEW COLD WATER	— CW —
NEW HOT WATER	— HW —
NEW TEMPERED WATER	— TW —
NEW FILTERED WATER	— FW —



Chick-fil-A

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SHEET TITLE
PLUMBING
DETAILS

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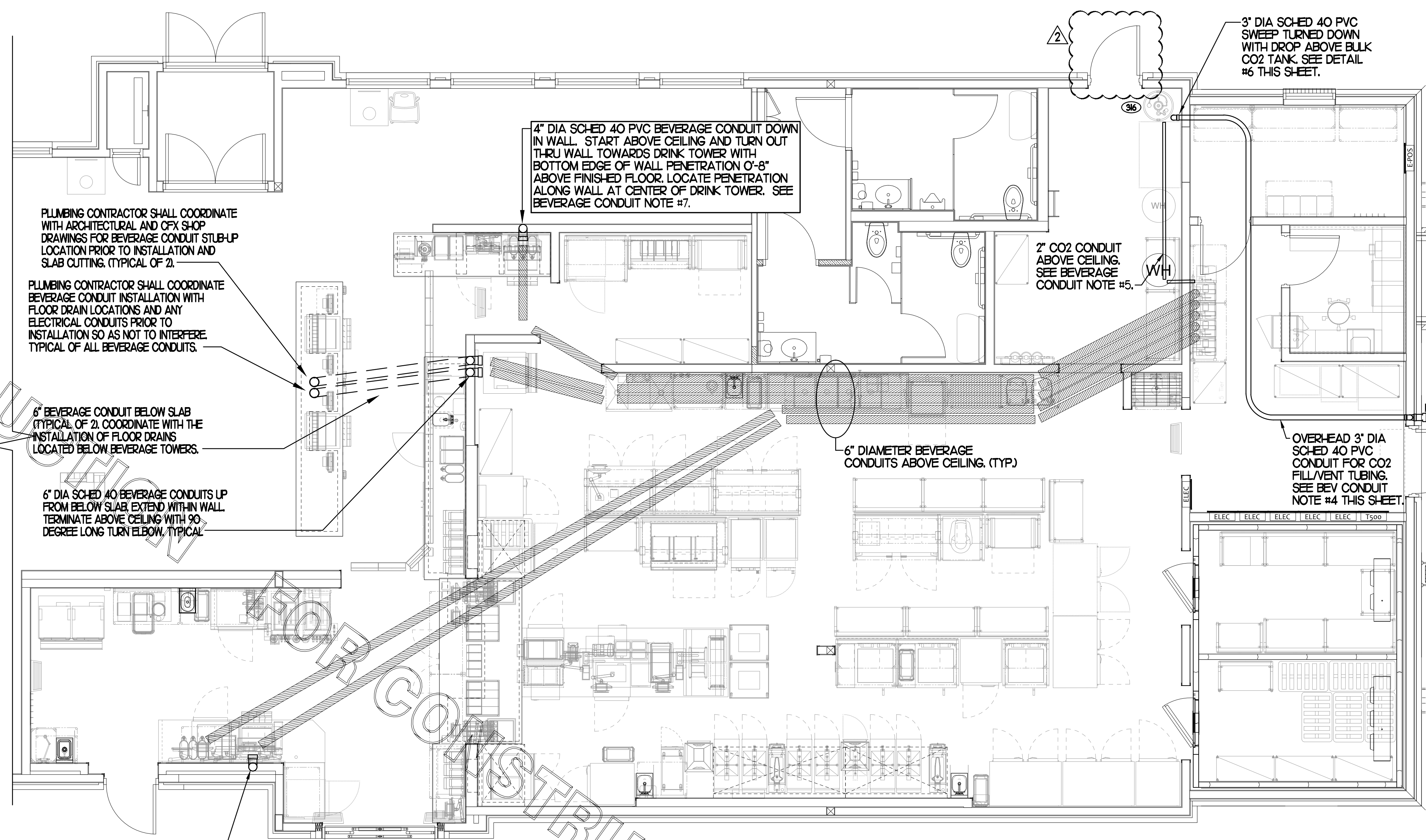
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P2.2

BEVERAGE CONDUIT NOTES

- REUSE EXISTING BEVERAGE CONDUITS OR THEIR PORTIONS WHERE INDICATED ON DRAWINGS. ROUTE BEVERAGE SYSTEM PIPING OVERHEAD FROM THE BEVERAGE RACK TO DRINK TOWERS IN 6" SCH 40 PVC CONDUITS. ALL CONDUITS 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.
- COORDINATE ROUTING OF ALL CONDUITS WITH HVAC DUCT IN KITCHEN. SEE SHEET M-1 FOR LOCATION OF AC UNITS AND DUCT ROUTING.
- TURN CONDUITS DOWN THROUGH THE CEILING AT THE BEVERAGE RACK AND PROVIDE CHROME ESCUTCHEONS AT CEILING PENETRATIONS. TERMINATE OPPOSITE END ABOVE CEILING OVER SERVING AREA OR TURN DOWN TO WALLS, AS PER PLANS.
- 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 #6 THIS SHEET.
- ROUTE 2" DIA BULK CO2 CONDUIT ABOVE CEILING. PROVIDE CHROME ESCUTCHEON AT WALL WITH 45 DEGREE ELBOW TIGHT TO ESCUTCHEON AND DIRECTED DOWNWARD. TERMINATE INTERIOR END OF CONDUIT 1'-0" ABOVE KITCHEN CEILING WITH 90 DEGREE ELBOW DIRECTED TOWARD CARBONATORS. EXTEND 2" DIA CONDUIT FROM WITHIN 1'-0" OF ELBOW TOWARD CARBONATORS. TERMINATE OPPOSITE END ABOVE CEILING ABOVE CARBONATORS.
- FOR BEVERAGE CONDUIT DROPS AT WALL WITH SHEATHING ABOVE THE CEILING, PROVIDE APPROPRIATE FITTING AT UPPER END OF CONDUIT DROP TO EXTEND CONDUIT THROUGH SHEATHING.



PLUMBING CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL AND CFX SHOP DRAWINGS FOR BEVERAGE CONDUIT STUB-UP LOCATION PRIOR TO INSTALLATION AND SLAB CUTTING. (TYPICAL OF 2).

PLUMBING CONTRACTOR SHALL COORDINATE BEVERAGE CONDUIT INSTALLATION WITH FLOOR DRAIN LOCATIONS AND ANY ELECTRICAL CONDUITS PRIOR TO INSTALLATION SO AS NOT TO INTERFERE. TYPICAL OF ALL BEVERAGE CONDUITS.

6" BEVERAGE CONDUIT BELOW SLAB (TYPICAL OF 2). COORDINATE WITH THE INSTALLATION OF FLOOR DRAINS LOCATED BELOW BEVERAGE TOWERS.

6" DIA SCHED 40 BEVERAGE CONDUITS UP FROM BELOW SLAB. EXTEND WITHIN WALL TERMINATE ABOVE CEILING WITH 90 DEGREE LONG TURN ELBOW. TYPICAL.

4" DIA SCHED 40 PVC BEVERAGE CONDUIT DOWN IN WALL. START ABOVE CEILING AND TURN OUT THRU WALL TOWARDS DRINK TOWER WITH BOTTOM EDGE OF WALL PENETRATION 0'-8" ABOVE FINISHED FLOOR. LOCATE PENETRATION ALONG WALL AT CENTER OF DRINK TOWER. SEE BEVERAGE CONDUIT NOTE #7.

2" CO2 CONDUIT ABOVE CEILING. SEE BEVERAGE CONDUIT NOTE #5.

3" DIA SCHED 40 PVC SWEEP TURNED DOWN WITH DROP ABOVE BULK CO2 TANK. SEE DETAIL #6 THIS SHEET.

4" DIA STUB-OUT AT REMOTE FILL-BOX. SEE DETAIL #6 THIS SHEET.

OVERHEAD 3" DIA SCHED 40 PVC CONDUIT FOR CO2 FILL/VENT TUBING. SEE BEV CONDUIT NOTE #4 THIS SHEET.

6" DIAMETER BEVERAGE CONDUITS ABOVE CEILING. (TYP)

4" DIA SCHED 40 PVC BEVERAGE CONDUIT DOWN IN WALL. START ABOVE CEILING AND TURN OUT THRU WALL TOWARDS DRIVE-THRU DRINK TOWER WITH BOTTOM EDGE OF WALL PENETRATION 0'-8" ABOVE FINISHED FLOOR. LOCATE PENETRATION ALONG WALL AT CENTER OF DRINK TOWER. SEE BEVERAGE CONDUIT NOTE #7.

BEVERAGE CONDUIT PIPING PLAN

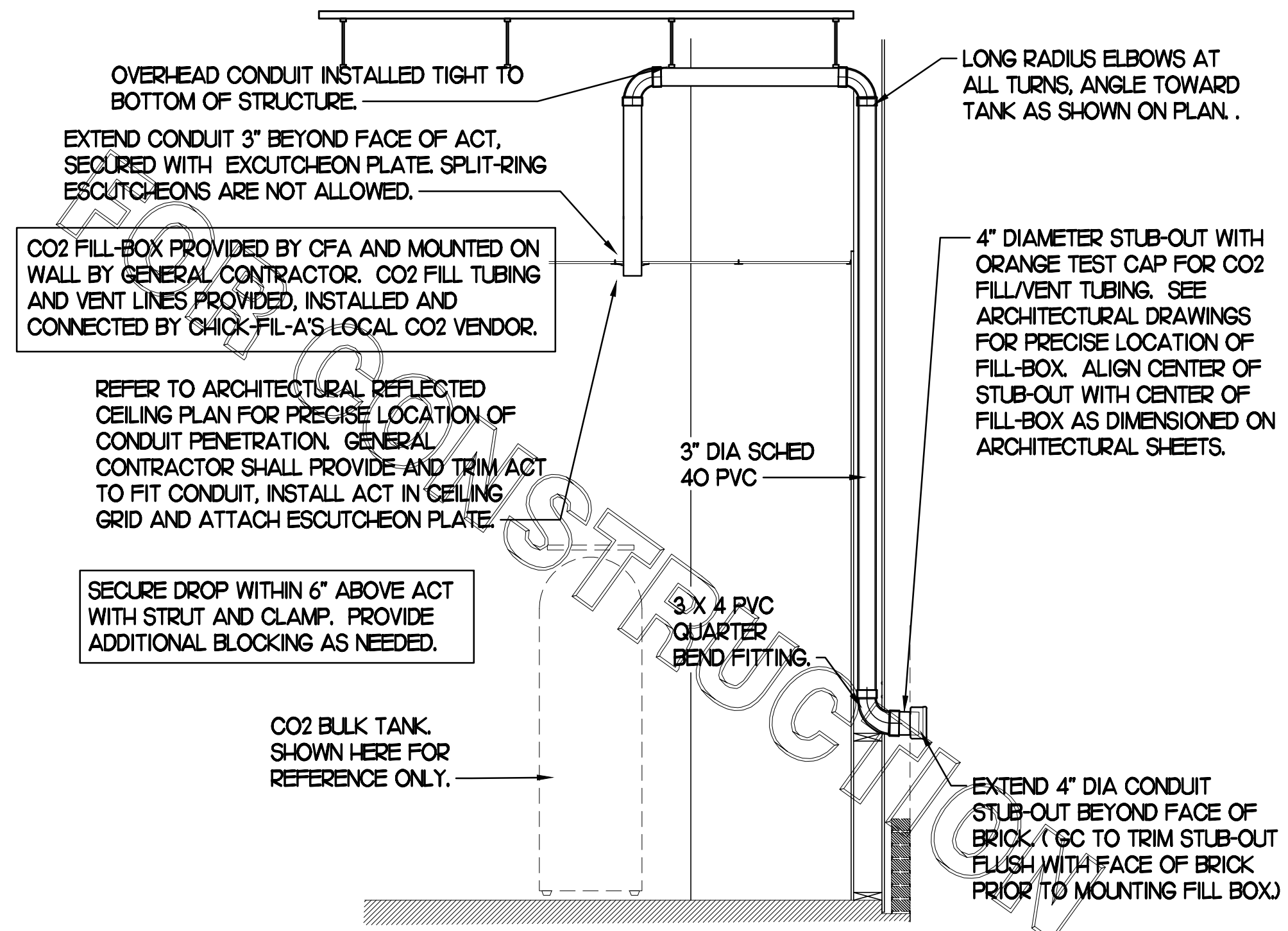
1/4"=1'-0"

I. FIXTURE CONNECTION SCHEDULE						
MARK	FIXTURE	FW	FW2	CW	HW	WASTE
P-1	WATER CLOSET - FLOOR MOUNT (1.6 GPF)	X	X	1"	X	4"
P-2	WATER CLOSET - ADA FLOOR MOUNT (1.6 GPF)	X	X	1"	X	4"
P-3	URINAL - ADA WALL HUNG (1.0 GPF)	X	X	3/4"	X	2"
P-4	LAVATORY - ADA COUNTER TOP (0.50 GPM)	X	X	1/2"	1/2"	H/2"
P-5	KITCHEN HAND SINK - WALL HUNG (0.50 GPM)	X	X	1/2"	1/2"	H/2"
P-6	SINGLE COMP SINK - COUNTERTOP (0.50 GPM)	X	X	1/2"	1/2"	H/2"
P-8	VEGETABLE PREP SINK (0.65 GPM SPRAYER)	X	X	1/2"	1/2"	(2) H/2"
P-9	POT SINK (0.65 GPM SPRAYER)	X	X	(2) 1/2"	(2) 1/2"	(4) H/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 (3' 12" TOP)	X	X	X	X	3"
P-13B	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	1/2"	1/2"	X
P-17	VACUUM RELIEF VALVE	X	X	3/4"	X	X
P-18	EXPANSION TANK	X	X	3/4"	X	X
P-20	THERMOMETER	X	X	X	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-29A	ICE MACHINE TRENCH DRAIN (8'X14.5')	X	X	X	X	4"
P-29B	ICE MACHINE TRENCH DRAIN (36'X14.5')	X	X	X	X	4"
P-30	FILTERED WATER FAUCET	(2) 1/2"	X	X	X	X
P-31	DUMPSTER POST	X	X	3/4"	X	X
P-32	DUMPSTER DRAIN	X	X	X	X	3"
P-34	DISPENSER BACKFLOW PREVENTER	1/2"	X	X	X	X
P-36	BEVERAGE TOWER INDIRECT RECEIVER	X	X	X	X	3"
P-38	HOT WATER CIRCULATING PUMP	X	X	X	1/2"	X
P-40W	DISHWASHER SUPPLY FAUCET	X	X	3/4"	X	X
P-42	EMERGENCY EYEWASH MIXING VALVE	X	X	1/2"	1/2"	X
P-43	RE-THERMALIZER SUPPLY VALVE	X	X	1/2"	X	X

NOTES: 1 REFER TO FOOD SERVICE DRAWINGS FOR KITCHEN EQUIPMENT INSTALLATION AND HOOK-UP RESPONSIBILITIES.

KITCHEN EQUIPMENT SCHEDULE							
TAG	DESCRIPTION	FW	FW2	CW	HW	WASTE	ROUGH-IN
(302)	TEA BREWER	1/2"	X	X	X	X	P-24
(308)	COFFEE MAKER	1/2"	X	X	X	X	P-24
(30A)	CARBONATOR BFP PANEL	3/4"	X	X	X	X	SEE K-41
(30)	WATER FILTER PANEL	(3) 3/4"	3/4"	3/4"	X	X	SEE DET 9/P21
(302)	POT SINK	X	X	(2) 1/2"	(2) 1/2"	INDIRECT	FAUCETS AND LEVER DRAINS REUSED/RELOCATED
(30)	VEGETABLE PREP SINK	X	X	1/2"	1/2"	INDIRECT	P-8 FAUCETS, SEE P41
(30F)	KITCHEN WALL FAUCET	(2) 1/2"	X	X	X	X	P-30 48" AFF.
(302)	DISHWASHER	X	X	3/4"	X	INDIRECT	SEE K-41
(370)	MOP SINK	X	X	1/2"	1/2"	3" P-35	P-7 SEE KITCHEN DWGS
(304) (38)	ICE BIN	X	X	X	X	INDIRECT	P-29 FLOOR SINK
(300) (30)	ICE MAKER	X	(3) 1/2"	X	X	INDIRECT	EXISTING
(592)	RE-THERMALIZER	X	X	1/2"	X	INDIRECT	SEE KITCHEN DWGS

NOTES: 1 REVIEW PLANS AND KITCHEN EQUIPMENT DRAWINGS IN ORDER TO DETERMINE WHICH EQUIPMENT IS NEW, EXISTING TO BE RELOCATED OR EXISTING TO REMAIN IN PLACE.



OVERHEAD CONDUIT INSTALLED TIGHT TO BOTTOM OF STRUCTURE.

EXTEND CONDUIT 3" BEYOND FACE OF ACT, SECURED WITH ESCUTCHEON PLATE. SPLIT-RING ESCUTCHEONS ARE NOT ALLOWED.

CO2 FILL-BOX PROVIDED BY CFA AND MOUNTED ON WALL BY GENERAL CONTRACTOR. CO2 FILL TUBING AND VENT LINES PROVIDED, INSTALLED AND CONNECTED BY CHICK-FIL-A'S LOCAL CO2 VENDOR.

REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR PRECISE LOCATION OF CONDUIT PENETRATION. GENERAL CONTRACTOR SHALL PROVIDE AND TRIM ACT TO FIT CONDUIT, INSTALL ACT IN CEILING GRID AND ATTACH ESCUTCHEON PLATE.

SECURE DROP WITHIN 6" ABOVE ACT WITH STRUT AND CLAMP. PROVIDE ADDITIONAL BLOCKING AS NEEDED.

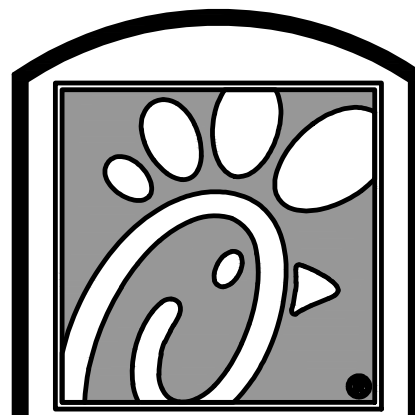
CO2 BULK TANK, SHOWN HERE FOR REFERENCE ONLY.

LONG RADIUS ELBOWS AT ALL TURNS, ANGLE TOWARD TANK AS SHOWN ON PLAN.

4" DIAMETER STUB-OUT WITH ORANGE TEST CAP FOR CO2 FILL/VENT TUBING. SEE ARCHITECTURAL DRAWINGS FOR PRECISE LOCATION OF FILL-BOX. ALIGN CENTER OF STUB-OUT WITH CENTER OF FILL-BOX AS DIMENSIONED ON ARCHITECTURAL SHEETS.

CO2 FILL/VENT CONDUIT AND FILL-BOX INSTALLATION

SCALE: NONE



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SHEET TITLE
ROOF PLAN
AND DETAILS

VERSION: S06C-R
ISSUE DATE: 6.28.2022

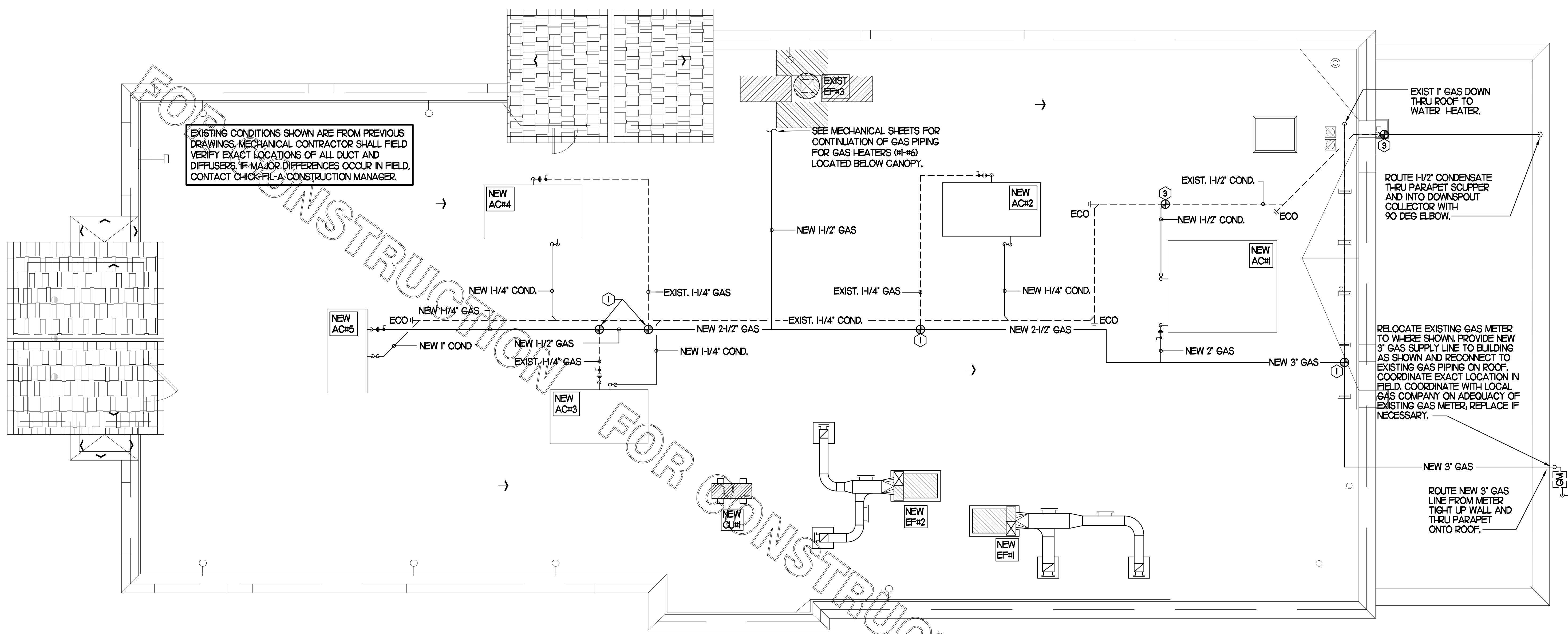
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P3.I



EXISTING CONDITIONS SHOWN ARE FROM PREVIOUS DRAWINGS. MECHANICAL CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF ALL DUCT AND DIFFUSERS. IF MAJOR DIFFERENCES OCCUR IN FIELD, CONTACT CHICK-FIL-A CONSTRUCTION MANAGER.

SEE MECHANICAL SHEETS FOR CONTINUATION OF GAS PIPING FOR GAS HEATERS (GH#6) LOCATED BELOW CANOPY.

EXIST 1\"/>

ROUTE 1/2\"/>

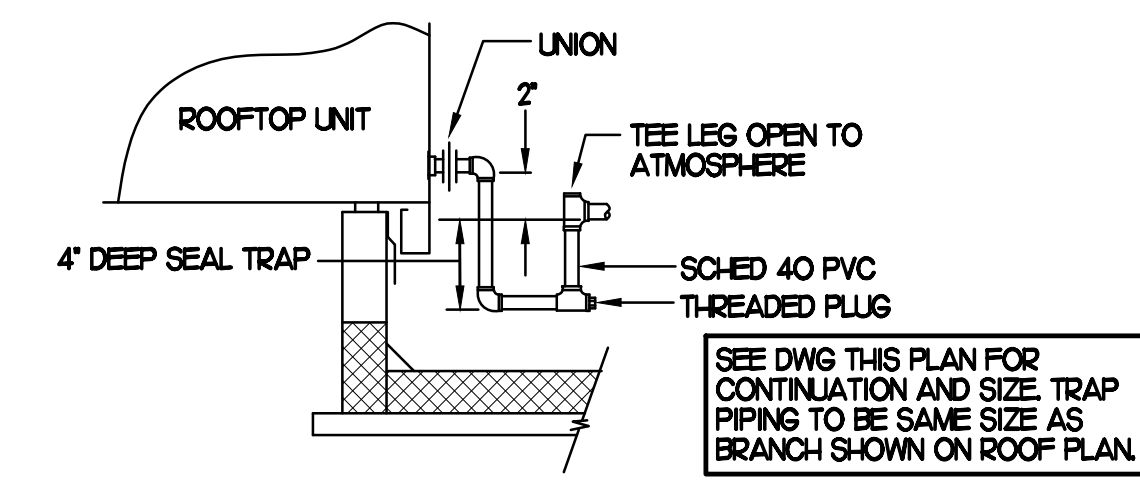
RELOCATE EXISTING GAS METER TO WHERE SHOWN. PROVIDE NEW 3\"/>

ROUTE NEW 3\"/>

1 PLUMBING ROOF PLAN

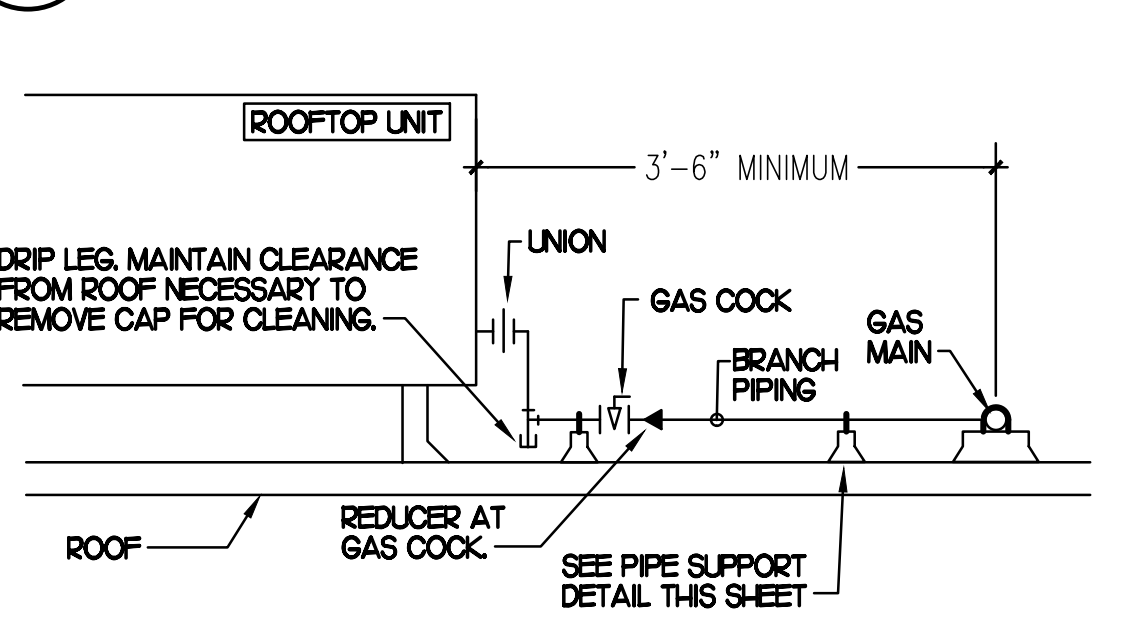
SCALE: 1/4"=1'-0"

- NOTES:
- NON ADJUSTABLE MODEL CIO PIPE STAND TO BE USED FOR NON-ELEVATED PIPING INSTALLED FLAT ON ROOF DECK.
 - PROVIDE MODEL CE-8 OR CE-12 OR CE-16 AS NEEDED FOR ELEVATING CONDENSATE PIPING TO MAINTAIN PROPER SLOPE AND FOR GAS PIPING CROSSING OVER CONDENSATE PIPING.
 - 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.



2 CONDENSATE DRAIN PIPING

NO SCALE



3 GAS PIPING AT RTU

NO SCALE

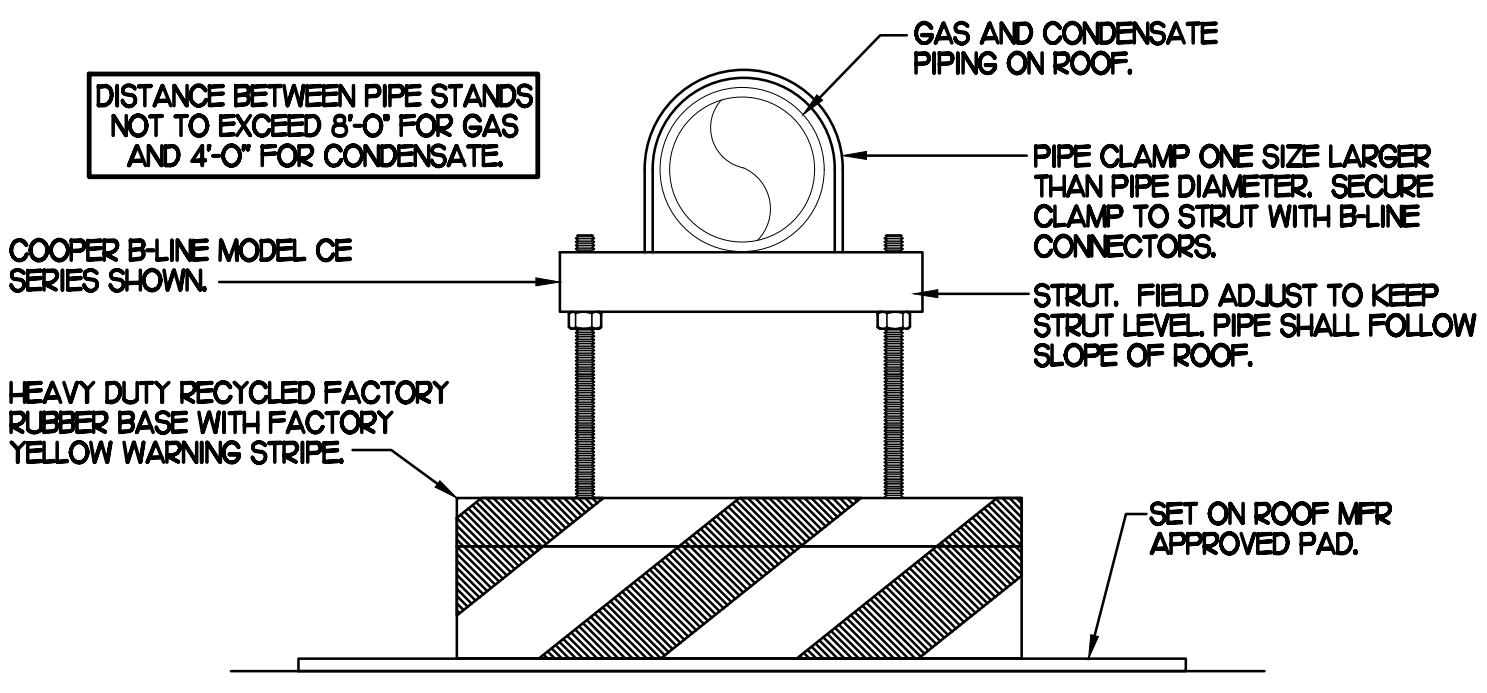
KEY NOTES

- CONNECT NEW GAS LINE TO EXISTING ON ROOF. FIELD VERIFY EXACT LOCATION AND SIZE OF ALL EXISTING GAS PIPING.
- VERIFY THAT NO NEW OR EXISTING VENT THRU ROOF, FLUE, EXHAUST ETC. OCCURS WITHIN 10FT. OF OUTSIDE INTAKE OPENING OF AIR HANDLER.
- CONNECT NEW CONDENSATE PIPING TO EXISTING CONDENSATE ON ROOF. FIELD VERIFY DIAMETERS OF EXISTING GAS PIPING.

SHEET NOTES

- NEW GAS PIPING SHALL BE PAINTED WITH A ZINC BASED PRIMER WITH A COLOR TOP COAT SPECIFIED BY THE GC. WHERE COLOR TOP COAT IS NOT REQUIRED, TWO COATS OF ZINC BASE PRIMER SHALL BE USED. ALL FIELD JOINTS SHALL BE COATED WITH TWO COATS OF A ZINC BASED PRIMER. SLEEVE ALL WALL PENETRATIONS WITH SCHEDULE 40 PVC AND PROVIDE STAINLESS STEEL ESCUTCHEONS ON BOTH SIDES OF WALL PENETRATIONS.
- PIPING ON ROOF SHALL NOT BE INSTALLED NEARER THAN 1'-0" FROM INSIDE EDGE OF PARAPET UNLESS NOTED OTHERWISE.
- CONDENSATE PIPING ON ROOF SHALL BE SCHEDULE 40 PVC.
- ANY EXISTING PENETRATIONS OF ROOF BY EXISTING GAS, CONDENSATE, REFRIGERANT OR OTHER PIPING THAT ARE NOT BEING REUSED FOR NEW PIPING SHALL BE PATCHED AND REPAIRED (WATERTIGHT) TO MATCH SURROUNDING AREA.
- FIELD VERIFY ALL LOCATIONS, DIAMETERS, CLEARANCES AND ROUTING OF EXISTING LINES AND EQUIPMENT.

GAS CONNECTION SCHEDULE	
EQUIPMENT	GAS LOAD
AC#1 (NEW)	480,000 BTUS
AC#2 (NEW)	240,000 BTUS
AC#3 (NEW)	240,000 BTUS
AC#4 (NEW)	240,000 BTUS
AC#5 (NEW)	150,000 BTUS
GH (INFRARED HEATERS) #1-6	300,000 BTUS
WATER HEATER (NEW)	75,000 BTUS
TOTAL CONNECTED LOAD	1,725,000 BTUS
REMARKS:	<ol style="list-style-type: none"> EQUIVALENT TO 1,725,000 CFH 7\"/>



4 PIPING SUPPORT

NO SCALE

I. SECTION C1500 - 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 RESTRICTIVE 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 SWEET 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 830-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 2550 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 AIP ARMAFLEX WITH MINIMUM 1/2" 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 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. EXPOSED SUPPORTS AND ATTACHMENTS SHALL BE STAINLESS STEEL, CHROME OR CHROME PLATED. GALVANIZED ATTACHMENTS WILL NOT BE ACCEPTED.

P. 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, STAFIX, 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. APPLY TWO COATS OF ASPHALTUM BASE PAINT TO PIPING BURIED UNDERGROUND.

2.03 TESTING (C15100)

A. POTABLE WATER PIPING SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURER'S 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 MANUFACTURER'S RECOMMENDATIONS.

E. NATURAL GAS PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURER'S 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.

2. PLUMBING FIXTURES

RESTROOM FIXTURES (C15405)

P-1 WATER CLOSET: TOTO MODEL CT705EN BOWL WITH 1/2" GPF TET-1-LA # 32CP ECO-POWER FLUSH VALVE AND SC534 SEAT. NO SUBSTITUTIONS. WHITE FLOOR MOUNTED, FLUSH VALVE TYPE, VITREOUS CHINA, 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 CT705ELN BOWL WITH 1/2" GPF TET-1-LA # 32CP ECO-POWER FLUSH VALVE AND SC534 SEAT. NO SUBSTITUTIONS. H.C. ACCESSIBLE, WHITE, FLOOR MOUNTED, 17-1/2" HIGH, FLUSH VALVE TYPE, VITREOUS CHINA, 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-3 URINAL: TOTO MODEL UT445J URINAL WITH TEU 1 UA 12CP 0.125 GPF SELF SUSTAINED HYDROPOWER SELF-GENERATING ELECTRONIC SENSOR-OPERATED FLUSH VALVE. NO SUBSTITUTIONS. VITREOUS CHINA, 3/4" TOP SPUD, SENSOR OPERATED WITH MANUAL OVERRIDE BUTTON, INTERNAL WALL FILTER PROTECTION, PLEASE SEE NATIONAL ACCOUNT INFORMATION ON THIS SHEET FOR PRICING OF TOTO PRODUCTS.

P-4 LAVATORY FAUCET: BUILT-IN COUNTERTOP LAVATORY PROVIDED BY OWNER; TOTO MODEL TEL 105-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 8872 POLISHED CHROME P-TRAP. P-TRAP SHALL BE PARALLEL WITH BACK WALL. PROVIDE A TRUEBERG INC. HANDI LAV-GUARD INSULATION KITS MODELS 101E-Z AND 105E-Z. CHICK-FIL-A HAS NATIONAL ACCOUNTS WITH TOTO. PLEASE SEE NATIONAL ACCOUNT INFORMATION ON THIS SHEET FOR PRICING OF TOTO FIXTURES.

PLUMBING (C15100)

P-5 KITCHEN HAND SINK ROUGH IN (SINK AND FAUCET WITH 0.50 GPM AERATOR FURNISHED BY OWNER) CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LF175 SUPPLIES WITH STOPS AND A MCGUIRE 8912 POLISHED CHROME P-TRAP.

P-6 SERVING COUNTER DROP IN SINK ROUGH IN (SINK AND FAUCET WITH 0.50 GPM AERATOR FURNISHED BY OWNER) CONTRACTOR SHALL INSTALL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE 8912 POLISHED CHROME P-TRAP AND MCGUIRE LF175 STOPS WITH 20" CHROME PLATED 3/8" COPPER RISERS.

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. NO SUBSTITUTIONS. SEE ALSO P-16.

P-8 VEGETABLE PREP SINK ROUGH IN (SINK AND FAUCET WITH 0.65 GPM SPRAY HEAD FURNISHED BY OWNER) CONTRACTOR SHALL INSTALL SINK AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LF175 STOPS AND BRASSCRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC, ASSEMBLE AND MOUNT TWO HANDLE FAUCET WITH PRE-RINSE SPRAY ARM. INSTALL ADD-ON FAUCET WITH 18" SPOUT AT BASE OF PRE-RINSE RISER. SEE K-SHEET ELEVATIONS. PROVIDE 1/2" SCHED 80 PVC PIPE AND FITTINGS) INDIRECT WASTE FROM SINK BASIN TO FLOOR SINK P-13B, NO P-TRAP REQUIRED.

P-9 FOUR COMPARTMENT POT SINK ROUGH IN (SINK AND FAUCETS WITH 0.65 GPM SPRAY HEAD FURNISHED BY OWNER) CONTRACTOR SHALL INSTALL SINK, ASSEMBLE & MOUNT TWO FAUCETS, AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE LF175 STOPS AND BRASSCRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC, ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH PRE-RINSE SPRAY ARM. INSTALL ADD-ON FAUCET WITH 18" 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 1/2" SCHED 80 PVC PIPE AND FITTINGS) INDIRECT WASTE FROM EACH SINK BASIN TO FLOOR SINK P-13A, NO P-TRAPS REQUIRED.

P-10 FLOOR DRAIN (3") JONES STEPHENS CORP D53-144 PVC BODY, BRONZE SPLD WITH 6" DIAMETER NICKEL BRONZE STRAINER. ALT: (JRS) 210-HP-NB, (WTS) FDI03-A8-60, (ZRN) FRO8NP35-C.

P-11 WALL HYDRANT (NON-FREEZE) WOODFORD MODEL 67-C AUTOMATIC DRAINING WALL HYDRANT WITH DUAL CHECK BFP, ASSE 1062 APPROVED, WALL CLAMP, POLISHED BRASS FINISH. 1" STYLE INLET, SEE WALL HYDRANT NOTES ON I/P-21 FOR WALL THICKNESS AT WALL HYDRANTS. ALT: (WTS) HY-42.

P-12 FUNNEL DRAIN (3") ZURN MODEL ZN415-3N-6S-4 FLOOR DRAIN W/FUNNEL, INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL, PROVIDE 6" SQUARE STRAINER WITH 4" ROUND FUNNEL AT ICE MACHINE & WALK-IN COOLER. ALT: (WTS) FDI03P-M6-F-4, (JRS) 351OL03.

P-13A FLOOR SINK (POT SINK) ZURN MODEL Z190-KC-1-3N-1-23 CAST IRON INDIRECT WASTE RECEIVER WITH 1/2" SQUARE BODY, FLASHING CLAMP, 8" DEEP, ALUMINUM SEDIMENT BUCKET, AND NO GRATE. NO SUBSTITUTIONS.

P-13B FLOOR SINK (VEGETABLE SINK) ZURN MODEL Z190-KC-3N-1-23 CAST IRON INDIRECT WASTE RECEIVER WITH FLASHING CLAMP, 8" SQ. BODY, ALUMINUM SEDIMENT BUCKET, AND NO GRATE. NO SUBSTITUTIONS.

P-14 CLEANOUTS INSIDE BUILDING: ZURN ZN1400-XN-L-EP CLEANOUT WITH 6" SQUARE NICKEL BRONZE TOP AND TAPER THREADED BRONZE PLUG. SEE PLAN FOR SIZE. ALT (X-PIPE DIA) (WTS) CO-20XP-S, (JRS) 4053L.

P-15 CLEANOUTS OUTSIDE BUILDING: ZURN Z1474-X-N EXTRA HEAVY DUTY CAST IRON CLEANOUT, "C.O." CAST IN COVER, ABS PLUG, NEO-LOCK OUTLET. ALT (X-PIPE DIA) (WTS) CO-X00-MF + CO-38X, (ZRN) Z1474-X-N (JRS) 426L.

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 G20-003 OR EQUAL). PROVIDE WITH ONE ASSE 1011 APPROVED CHROME PLATED VACUUM BREAKER (WOODFORD MODEL 344-CH OR EQUAL). FOR INSTALLATION AT MOP SINK. SEE 2/P-2-1. 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 #LFN36MI, 3/4" CONNECTION.

P-18 EXPANSION TANK: STATE INDUSTRIES MODEL ETC-5X, ACCEPTANCE 3.05 GALLONS AT 40 PSI PRECHARGE, 3/4" CONNECTION. ALTERNATE MODELS SIZED PER WATER HEATER MANUFACTURER RECOMMENDATIONS ARE ACCEPTABLE.

P-19 WATER HEATER: STATE INDUSTRIES MODEL GS6-75-YRVHTL, 75 GALLON GAS FIRED WATER HEATER, 76,000 BTUH INPUT, 75 GPM MINIMUM RECOVERY AT 100 DEGREE RISE, 3" PVC OR ABS VENT OUTLET, WITH ONE YEAR MANUFACTURER WARRANTY. CONTRACTOR TO PROVIDE HEAT TRAPS AT INLET AND OUTLET. ACCEPTABLE SUBSTITUTES: A.O. SMITH 6PVX75L, BRADFORD WHITE RG2-PV75-16N, RHEEM 6PV75-75FV-2.

P-20 THERMOMETER: PROVIDE THERMOMETER MODEL B834 - 04 - 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.

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. LF100MIOT 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. LF100RM2 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) 112-975XL2-L.

P-22 MOP SINK CHECK VALVES: T&S BRASS 1/2" MODEL B-CVW1-2 BALL CHECK.

P-23 UTILITY CONNECTION (ICE MAKER): PROVIDE A MCGUIRE MODEL LFH-STO6S LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET. PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFP P-34. SEE DETAIL 3/P-21 FOR PIPING AT ICE MAKERS.

P-24 UTILITY CONNECTION (COFFEE & TEA BREWERS): PROVIDE A MCGUIRE MODEL LFH-STO6S LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET. 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. ALT: (WTS) SSA + SSB, (JRS) 5005 THROUGH 5050)

P-26 FUNNEL DRAIN (3") ZURN ZN415-3N-6S-OF FLOOR DRAIN W/FUNNEL, INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL, PROVIDE 6" ROUND STRAINER WITH 3.25" X 8.25" OBLONG FUNNEL. ALT: (WTS) FD-103P-A8-6-4, (JRS) SMITH 351OL03.

P-26A TRAP SEAL PROTECTOR: PREVENT TRAP GUARD MODEL TG3H 3" TRAP SEAL. INSERT FOR INTERIOR INSTALLATION AND REPLACEMENT ACCESS THROUGH STRAINER. PROVIDE AT P-26 FLOOR DRAINS IN RESTROOMS, P-37 FLOOR DRAINS DINING ROOM, AND P-26 FUNNEL DRAINS IN MECH ROOM. TRAP GUARDS TO BE USED ALONG WITH MECHANICAL TRAP PRIMERS. PROVIDE PROSET MODEL TG33-ZURN WHEN USING ZURN FLOOR FIXTURES.

P-27 WATER PRESSURE GAUGE: THERMICE MODEL 800B, 2-1/2" ROUND, BOTTOM OUTLET WITH 1/4" N.P.T. CONNECTION AND 0 TO 100 PSI RANGE.

P-28 BALL VALVE: NIBCO MODEL 4660-T, 3/4", WITH IPS INLET AND OUTLET.

P-29A ICE MACHINE TRENCH DRAIN (8") ZURN ZR12-CFA-18 TRENCH DRAIN WITH SEDIMENT CUP AND SERRATED LADDER GRATES. PROVIDE WITH 4" DRAIN AND TRAP. TRENCH DRAIN SHALL BE RECESSED INTO SLAB SO THE TOP OF THE PERIMETER FRAME IS FLUSH WITH THE FINISHED FACE OF THE ADJACENT TILE FLOOR. TRENCH DRAIN, SEDIMENT CUP, AND GRATES SHALL BE 304 STAINLESS STEEL.

P-29B ICE MACHINE TRENCH DRAIN (36") ZURN ZR12-CFA-36 TRENCH DRAIN WITH SEDIMENT CUP AND SERRATED LADDER GRATES. PROVIDE WITH 4" DRAIN AND TRAP. TRENCH DRAIN SHALL BE RECESSED INTO SLAB SO THE TOP OF THE PERIMETER FRAME IS FLUSH WITH THE FINISHED FACE OF THE ADJACENT TILE FLOOR. TRENCH DRAIN, SEDIMENT CUP, AND GRATES SHALL BE 304 STAINLESS STEEL.

P-30 FILTERED WATER FAUCET: (FAUCET PROVIDED BY OWNER) TWO-HANDLE WALL MOUNT FAUCET WITH SWING SPOUT. MOUNT ON WALL AS SHOWN ON K-SHEETS. PIPE FILTERED WATER TO BOTH SIDES OF FAUCET. CONNECT TO SUPPLY PIPING WITH BRASS OR CHROME NIPPLES, GALVANIZED NOT ALLOWED.

P-31 DUMPSTER POST HYDRANT (NON-FREEZE) WOODFORD MODEL Y2 LEVER TYPE POST HYDRANT, 3/4 HOSE CONNECTION, LOCKABLE LEVER HANDLE, BRASS CASING, BRASS OPERATING ROD, ASSE 1052 APPROVED AND 36" DEPTH OF BURY.

P-32 DUMPSTER PAD DRAIN: J.R. SMITH FIGURE NO. 2280C03 3" FLOOR DRAIN WITH 7-1/2" HINGED CAST IRON SLOTTED GRATE AND SEDIMENT BUCKET. PROVIDED AND INSTALLED BY SITE CONTRACTOR. ALT: (ZRN) Z560-3N-L-Y.

P-33 TRAP PRIMER (MECHANICAL TYPE) PRECISION PRODUCTS PR-500. PROVIDE DISTRIBUTION UNIT WHERE SERVING MULTIPLE DRAINS. PROVIDE SCREWDRIIVER STOP AT PRIMER INLET. ALT: (WTS) TP-300A-DR.

P-34 DISPENSER BACKFLOW PREVENTER: WATTS MODEL #WLFTR122D ASSE 1024 RATED WITH 1/2" FIP INLET AND OUTLET, DUAL CHECK TYPE. PROVIDE 1/2" DIA X 2" LONG CHROME NIPPLE AT BFP INLET AND OUTLET. PROVIDE T&S BRASS MODEL B-0110 CHROME WALL BRACKET.

P-35 FLOOR DRAIN (3") JONES STEPHENS CORP D50-064 PVC BODY, BRONZE SPLD WITH 6" DIAMETER NICKEL BRONZE STRAINER. SEE DWG PH FOR DRAINS IN RESTROOMS REQUIRING 1/2" TRAP PRIMER CONNECTION. ALT: (WTS) FDI03-A6-60, (ZRN) FRO6NP35-C.

P-36 BEVERAGE TOWER INDIRECT RECEIVER (3") JONES STEPHENS CORP D53-144 PVC BODY, BRONZE SPLD WITH 8" DIAMETER NICKEL BRONZE STRAINER. ALT: (JRS) 210-HP-NB, (WTS) FDI03-A8-60, (ZRN) FRO8NP35-C.

P-37 FLOOR DRAIN (3") JONES STEPHENS CORP D50-076 PVC BODY, BRONZE SPLD WITH 6" SQUARE NICKEL BRONZE STRAINER. PROVIDE 1/2" TRAP PRIMER CONNECTION FOR DINING ROOM DRAINS. ALT: (WTS) FDI03-M6-7-60, (ZRN) FSO6NP35-C.

P-38 HOT WATER CIRCULATING PUMP: TACO MODEL 006-SC7-1FC, 1/2" UNION CONNECTIONS, INTEGRAL FLOW CHECK, 1/4" VAC. ELECTRICAL INLET TO PROVIDE WIRE PLUGS AND COORD. 1/4" HP, 3 GPM AT 7 FT TOTAL DYNAMIC HEAD. PROVIDE CONTROL WIRING AND HONEYWELL MODEL L6006C I/O VAC AQUA-STAT, WITH ADJUSTABLE SETPOINT, MOUNTED DIRECTLY ON PIPE. SET SHUT-OFF TEMPERATURE AT 130 DEG F.

P-39 2" PRESSURE REDUCING VALVE: WATTS NO. #LF723-SB WITH BUILT-IN BYPASS FEATURE. SET NO FLOW CONDITION AT 70 PSI. ALT: (ZRN) SERIES 500KLYSB.

P-40 WYE STRAINER WITH #100 SCREEN 2". WATTS LF777/SMS, BRONZE WYE STRAINER WITH THREADED CONNECTION AND TAPPED RETAINER CAP. PROVIDE #100 MESH SCREEN. PROVIDE WATTS 1/2" BD-C BRASS BOILER DRAIN WITH BRASS STREET 90 DEGREE ELBOW, MALE END SIZED FOR CONNECTION TO WYE STRAINER RETAINER CAP OUTLET TAP.

P-41W DISH-WASHER SUPPLY VALVE: FULL-PORT LEAD-FREE STAINLESS STEEL BALL VALVE WITH SPLIT-RING BRACKET, CHROME FITTINGS, PIPE NIPPLES AND ESCUTCHEON.

P-42 EMERGENCY THERMOSTATIC MIXING VALVE (EMERGENCY EYEWASH): BRADLEY MODEL S19-2000 FX8 THERMOSTATIC TEMPERING VALVE ANSI Z358.1 CERTIFIED FOR EMERGENCY FIXTURES, ASSE 1071 COMPLIANT, WITH DIAL THERMOMETER, INLET CHECK STOPS, ADJUSTABLE SETPOINT, ACCURATE WITHIN +/- 3 DEG F, INCLUDES INTEGRAL COLD WATER BYPASS WITH AT 7 FT TOTAL DYNAMIC HEAD. PROVIDE COLD WATER SUPPLY AND G-LOST. FACTORY SETPOINT OF 85 DEG F. MOUNTING BRACKET INCLUDED. FACTORY ASSEMBLED AND TESTED. ROUGH BRASS FINISH. NO SUBSTITUTIONS. CONTACT CHICK-FIL-A NATIONAL ACCOUNTS AT HAYNES, JONES, & CADBURY FOR PRICING AND DELIVERY.

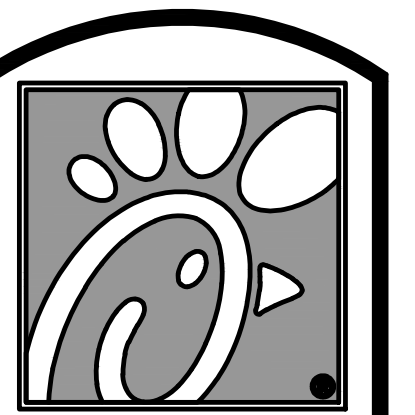
P-43 REHEMALIZER SUPPLY VALVE: FULL-PORT LEAD-FREE STAINLESS STEEL BALL VALVE WITH SPLIT-RING BRACKET, CHROME FITTINGS, PIPE NIPPLES AND ESCUTCHEON AS DETAILED ON 3/P-4L.

NATIONAL ACCOUNTS

I. TOTO VALVES AND FIXTURES (NO SUBSTITUTIONS). HAINES, JONES, & CADBURY LLC. (HJC DISTRIBUTORS). PLEASE CONTACT HJC-OFA 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.

COORDINATION NOTE

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.



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1 08.09.22
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- REVISIONS

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SHEET TITLE
PLUMBING
SPECIFICATIONS

VERSION: S06C-R
ISSUE DATE: 6.28.2022

Job No. : 20133.CDR
Store : #2182

Date : 6.28.22
Drawn By : BF

Checked By : MK

Sheet
P5.I

1 KITCHEN EQUIPMENT SCHEDULE - CHICK-FIL-A REMODEL STORE #2182

VERIFY THE QUANTITY AND ROUGH-IN OF EACH EQUIPMENT ITEM WITH THE KITCHEN EQUIPMENT SCHEDULE

SCHEDULE NOTES	EQUIP. NO.	EQUIPMENT DESCRIPTION	ELECTRICAL LOAD					NEMA CONFIG		COOPER/ARROW HART (UON) RECEPT CATALOG NO.	WIRE/CONDUIT MARK NO.	COMMENTS AND REMARKS
			VOLTS	PH	WIRES	KW	AMPS	WALL	DROP-CORD			
	180	ORDER REGISTER (POS)	120	1	2		0.7	5-20R	N/A	1G5362RN (ORANGE)	1-HG	
	182	RECEIPT PRINTER	120	1	2		0.18	5-20R	5-20R	1G5362RN (ORANGE)	1-HG	
	182L	LABEL PRINTER	120	1	2		0.18	5-20R	5-20R	1G5362RN (ORANGE)	1-HG	
NOTE 5	183	ORDER MONITOR	120	1	2		0.125	5-20R	5-20R	1G5362RN (ORANGE)	1-HG	
NOTE 2 OR 5	184	IPAD	120	1	2	0.120	1.0	5-20R	5-20R	VGFP20	1	
NOTE 2	190	DRIVE-THRU VIDEO MONITOR	120	1	2		0.8	5-20R	N/A	CR20	1	
NOTE 5	21B	FLY SYSTEM - KITCHEN AREA	120	1	2	0.078	0.650	5-15R	N/A	TR780W (DUPLX)	1	
	269	ANSUL FIRE SYSTEM	120	1	2		VERIFY	DIRECT	N/A	-	1	
	270	ANSUL FIRE SYSTEM	120	1	2		VERIFY	DIRECT	N/A	-	1	
NOTE 2	300A	MILKSHAKE DISPENSER	120	1	2		4.0	5-20R	N/A	1877 (SIMPLEX)	1	
	300X	DOUBLE BARREL ICE DREAM	208	3	3		15.0	15-30R	N/A	HUBBELL HBL8420	2	
NOTE 2	305	TEA BREWER	120	1	2	1.650	13.8	5-20R	N/A	VGFP20	1	
	306	COFFEE BREWER	208	3	3	4.000	19.2	15-30R	N/A	AH430R	8	
NOTE 2	310	DOUBLE JUICE DISPENSER	120	1	2		8.5	5-20R	N/A	1877 (SIMPLEX)	1	
	315W	DRINK TOWER	120	1	2		10.0	5-20R	N/A	CR20	1	
NOTE 2	320	TURBO CARBONATOR	120	1	2		6.2	5-20R	N/A	CR20	1	
	363H	HIGH-TEMP DISH-MACHINE	208	3	3		45.4	DIRECT	N/A	-	17	
	380A	ICE BIN SANITATION SYSTEM	120	1	2	0.010		5-15R	N/A	-	-	
NOTE 5	380	INTERIOR ICE MAKER	120	1	2	0.600	5.0	5-15R	N/A	817 (SIMPLEX) CR15 (DUPLX)	1	
	380C	ROOF MTD ICE CONDENSER	208	3	4	5.112	14.2	DIRECT	N/A	-	6	
	380D	INTERIOR ICE MAKER	120	1	2		6.0	5-15R	N/A	817 (SIMPLEX) CR15 (DUPLX)	1	
	380DC	ROOF MTD ICE CONDENSER	208	3	4		15.7	DIRECT	N/A	-	9	
NOTE 2	400	REACH-IN FRY FREEZER	120	1	2		9.4	5-20R	L5-20R	VGFP20 / AHL520R	1	
	410N	WALK-IN FREEZER DOOR HTR/LTG	120	1	2		3.3	DIRECT	-	-	1	
	410N	WI FREEZER COND (NORLAKE)	208	3	3			DIRECT	-	8		
	410N	WI FREEZER EVAP (NORLAKE)	208	1	2		24.00	DIRECT	-	8		
NOTE 5	420	SINGLE UC REFRIGERATOR	120	1	2		4.7	5-20R	L5-20R	1877 (SIMPLEX) / AHL520R	1	
NOTE 2	421	DOUBLE UC REFRIGERATOR	120	1	2		6.3	5-20R	L5-20R	1877 (SIMPLEX) / AHL520R	1	
NOTE 5	422	REFRIGERATED EQUIPMENT STAND	120	1	2		6.7	5-15R	L5-15R	1877 (SIMPLEX) / CML515C	1	
NOTE 5	432	REFRIGERATED WORK TABLE	120	1	2		6.3	5-20R	L5-20R	1877 (SIMPLEX) / AHL520R	1	
NOTE 2	440CT	BREADING TABLE	120	1	2		1.0	L5-15R	L5-15R	CML515R / CML515C	1	
NOTE 5	441	REFRIGERATED SALAD PREP	120	1	2		9.0	L5-15R	L5-15R	CML515R / CML515C	1	
NOTE 2	442WCT	SINGLE UPRIGHT REFRIGERATOR	120	1	2		7.0	L5-15R	L5-15R	CML515R / CML515C	1	
	444	DOUBLE DOOR THAWING CABINET	120	1	2		16.0	DIRECT	DIRECT	-	1	
	444S	SINGLE DOOR THAWING CABINET	120	1	2		16.0	DIRECT	DIRECT	-	1	
	449N	WALK-IN COOLER LIGHTING	120	1	2		2.4	DIRECT	-	-	1	
	449N	WI COOLER COND (NORLAKE)	208	3	3			DIRECT	-	2		
	449N	WI COOLER EVAP (NORLAKE)	208	1	2		15.00	DIRECT	-	2		
NOTE 2 OR 5	500A	VERTICAL CONTACT TOASTER	120	1	2	1.800	15.0	5-20R	L5-20R	VGFP20 / AHL520R	1	
	500B	RADIANT TOASTER	208	1	3	5.000	24.0	L6-30R	L6-30R	AHL530R / AHL530C	8	
NOTE 5	503	EGG STATION	208	1	3	2.500	12.5	6-20R	L6-20R	1876 (SIMPLEX) / AHL620C	2	
	505V	MULTI-COOK OVEN	208	3	3	7.920	22.0	L15-30R	L15-30R	AHL01530R / AHL01530C	9	
NOTE 3	522	OPEN FRYER - ELECTRIC	208	3	3	22.000	61.0	NOTE 3	N/A	-	22	
NOTE 3	522A	DOUBLE OPEN FRYER - REQUIRES TWO ELECTRICAL CONNECTIONS EACH OF THE SAME LOAD AND CHARACTERISTICS AS #522 ABOVE										
	523	PRESSURE FRYER - ELECTRIC	208	3	3	13.500	38.0	15-50R	N/A	HUBBELL HBL8450A	14	
	524	DUAL SIDED CHAR-GRILL	208	3	3	9.000	24.1/28.2/23.1	15-50R	N/A	HUBBELL HBL8450A	14	
NOTE 2	560	FRY HOLDING STATION	120	1	2	1.840	15.4	5-20R	N/A	1877 (SIMPLEX)	1	
NOTE 5	562A	HOT HOLDING TOWER	120	1	2	1.91	15.9	L5-20R	L5-20R	AHL520R / AHL520C	1	
NOTE 5	5630	DOUBLE SANDWICH SLIDE	120	1	2	1.090	9.13	5-20R	N/A	1877 (SIMPLEX)	1	
NOTE 5	5635	SINGLE SANDWICH SLIDE	120	1	2	0.548	4.56	5-20R	N/A	1877 (SIMPLEX)	1	
	564A	PRODUCT HOLDING CABINET	120	1	2	0.660	5.50	5-20R	L5-20R	1877 / AHL520C	1	
	564B	PRODUCT HOLDING CABINET	120	1	2	0.660	5.50	5-20R	L5-20R	1877 / AHL520C	1	
NOTE 2	565C	FOOD COOKER/WARMER	120	1	2	1.500	12.50	5-20R	L5-20R	VGFP20 / AHL520R	1	
NOTE 5	580H	MULTI-USE HOLDING CABINET	120	1	2	1.920	16.0	5-20R	L5-20R	1877 / AHL520C	1	
	592	SOUP RE-THERMALIZER	208	3	3	7.920	22.0	15-30R	L15-30R	AH8430N / AHL8430C	9	
NOTE 5	600	MIXER	120	1	2		8.0	5-20R	L5-20R	VGFP20 / AHL520C	1	
NOTE 2	607	LEMON JUICER	120	1	2		1/4 HP	5-20R	N/A	VGFP20	1	
	657	AIR COMPRESSOR	120	1	2	1.920		5-20R	N/A	CR20	1	
	669	OFFICE SAFE (SMART SAFE)	120	1	2			5-20R	N/A	CR20	1	
NOTE 2	671	LED MENU BOARD	120	1	2		12.50	5-20R	N/A	CR20	1	

WIRING DEVICE PACKAGE, INCLUDING SWITCHES (EXCEPT HUBBELL BRAND DEVICES) SHALL BE PURCHASED AS A PART OF A NATIONAL ACCOUNTS PROGRAM THROUGH GEXPRO (FORMERLY GE SUPPLY). CONTACT BRIAN REECE AT 770-840-4162 (EMAIL: BRIANREECE@GEXPRO.COM)

NOTE 1: ALL 90 CORD LENGTHS SHALL BE MEASURED FROM THE REAR OF THE EQUIPMENT TO THE END OF THE CORD.

NOTE 2: CONTRACTOR SHALL PROVIDE GROUND-FALL PROTECTION FOR ALL 120 VOLT 15 AMP AND 20 AMP RECEPTACLES IN THE KITCHEN / FOOD PREPARATION AREAS. GROUND-FALL 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.

NOTE 3: A RECESSED PIN & SLEEVE BOX IS PROVIDED WITH THE EXHAUST HOOD PACKAGE AND INSTALLED BY THE CONTRACTOR. THE P&S BOX INCLUDES THE 'SLEEVE' RECEPTACLES FOR THE OPEN FRYERS. THE OPEN FRYER SUPPLIER WILL PROVIDE PRE-WIRED CORDSET WITH A 'PIN' DEVICE INTEGRAL WITH THE OPEN FRYER TO PLUG INTO THE 'SLEEVE' RECEPTACLE.

NOTE 4: WIRE NUMBER INDICATED DOES NOT INCLUDE THE REQUIRED GREEN EQUIPMENT GROUND CONDUCTOR OR, WHEN APPLICABLE, THE STRIPED IG CONDUCTOR.

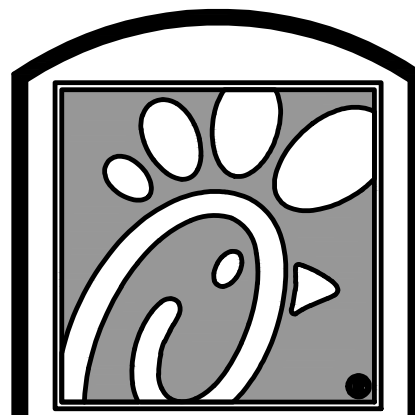
NOTE 5: PROVIDE GFCI TYPE BRANCH BREAKER FOR KITCHEN/FOOD PREPARATION AREA RECEPTACLES THAT ARE TWIST-LOCK, CLOCK STYLE, OR IG (ISOLATED GROUND) TYPE.

NOTE 6: REFER TO THE CONDUIT AND CONDUCTOR SCHEDULE FOR THE WIRE/CONDUIT MARK NUMBER AND THE MINIMUM WIRE AND CONDUIT SIZE FOR EACH EQUIPMENT ITEM.

NOTE 7: THE 'R' SUBSCRIPT ON EQUIPMENT NUMBERS ON THE KITCHEN SERIES DRAWINGS REFERS TO EXISTING EQUIPMENT THAT HAS BEEN RELOCATED. IN SEVERAL CASES THERE MAY BE ONE OR MORE NEW AND ONE OR MORE RELOCATED ITEMS, THEREFORE, IN ORDER TO AVOID CONFUSION, ALL EQUIPMENT IS LISTED AS 'NEW' AND THIS SUBSCRIPT IS NOT USED. FIELD VERIFY ELECTRICAL REQUIREMENTS - WHAT IS INDICATED IN THIS SCHEDULE IS BASED ON 'NEW BUILD' PROTOTYPICAL EQUIPMENT ITEMS.

2 ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	MTG HT AFF TO CL	SYMBOL	DESCRIPTION	MTG HT AFF TO CL
LIGHTING FIXTURES					
□	SURFACE MTD FLUORESCENT LIGHTING FIXTURE		—	CONDUIT CONCEALED ABOVE CEILING OR IN WALL	
◻	RECESSED FLUORESCENT LIGHTING FIXTURE		—	CIRCUIT HOMERUN TO PANELBOARD WITH MINIMUM 2#12, 1#2G, 3/4"C	
○	SURFACE MTD FLUORESCENT OR HID LIGHTING FIXTURE		—	CONDUIT TURNING UP	
○	RECESSED FLUORESCENT OR HID LIGHTING FIXTURE		—	CONDUIT TURNING DOWN	
○	WALL MOUNTED LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE (FLUORESCENT OR HID, FIXTURE)	AS NOTED	—	CONDUIT CONCEALED IN OR BELOW SLAB (OUTSIDE - UNDERGROUND)	
⊕	WALL MOUNTED EXIT SIGN. SHADING INDICATES FACES. PROVIDE WITH CHEVRON DIRECTIONAL ARROWS WHERE INDICATED ON PLANS PROVIDED WITH BATTERY PACK	6" BELOW CEILING TO TOP	—	FLEXIBLE LIGHT FIXTURE WHIP, SIX FOOT MAXIMUM LENGTH	
⊕	CEILING MOUNTED EXIT SIGN. SHADING INDICATES FACES. PROVIDE WITH CHEVRON DIRECTIONAL ARROWS WHERE INDICATED ON PLANS PROVIDED WITH BATTERY PACK		—	METAL CLAD CABLE ASSEMBLY - ONLY WHERE INDICATED ON DWGS OR SPECS	
⊕	COMBO EXIT WITH TWO LAMP-HEADS. SEE LIGHTING FIXTURE SCHEDULE		NOTES: FOR ALL CONDUITS, REFER TO PLANS FOR OTHER CONDUITS, REFER TO VENDOR DRAWINGS FOR CONDUIT AND WIRING REQUIREMENTS FOR LOW VOLTAGE SYSTEMS AND CONTROL WIRING.		
⊕	WALL MOUNTED EMERGENCY BATTERY PACK LIGHTING FIXTURE	AS NOTED	MULTIPLE IPH CIRCUITS MAY OCCUPY THE SAME CONDUIT IN ACCORDANCE WITH THE NEC, MAXIMUM OF THREE AND OF DIFFERENT PHASES.		
⊕	CEILING MOUNTED EMERGENCY BATTERY PACK LIGHTING FIXTURE		LOW VOLTAGE AND CONTROL WIRING SHALL BE IN SEPARATE CONDUIT FROM POWER WIRING.		
—	FLUORESCENT STRIP LIGHTING FIXTURE		DISTRIBUTION EQUIPMENT		
—	WALLWASHER STYLE RECESSED DOWNLIGHT, AIM LIGHT TOWARD WALL		⊕	NON-FUSIBLE SAFETY SWITCH. SIZE AND TYPE AS NOTED ON PLANS (AMPS/POLES/ENCLOSURE) OR ON SCHEDULE. NEMA 1 ENCLOSURE UNLESS NOTED WP FOR NEMA 3R ENCLOSURE.	6'-6"
—	RECESSED LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK		⊕	FUSIBLE SAFETY SWITCH. SIZE AND TYPE AS NOTED ON PLANS (AMPS/POLES/USE AMPS/ENCLOSURE) OR ON SCHEDULE. NEMA 1 ENCLOSURE UNLESS NOTED WP FOR NEMA 3R.	6'-6"
—	PENDANT LIGHTING FIXTURE	AS NOTED	—	FLUSH MOUNTED LIGHTING PANELBOARD	6'-6"
—	LIGHTING TRACK WITH TRACK HEADS		—	SURFACE MOUNTED LIGHTING PANELBOARD	6'-6"
WIRING DEVICES					
⊕	120 VOLT DUPLEX RECEPTACLE, 20 AMPS UON.	18"	⊕	TRANSFORMER, PROVIDE SECONDARY GROUNDING PER NEC	
⊕	120 VOLT DUPLEX AT SPECIAL MOUNTING HEIGHT, 20 AMPS UON.	44" UON	⊕	ENCLOSED CIRCUIT BREAKER. SIZE AND TYPE AS NOTED (AMPS/POLES/ENCLOSURE) NEMA 1 ENCLOSURE IF NOT NOTED, WP-NEMA 3R	6'-6"
⊕	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS UON.	18" UON	⊕	FLUSH MOUNTED LIGHTING PANELBOARD	6'-6"
⊕	120 VOLT QUADRAPLEX AT SPECIAL MOUNTING HEIGHT, 20 AMPS UON.	44"	⊕	SURFACE MOUNTED LIGHTING PANELBOARD	6'-6"
⊕	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS UON.	18" UON	⊕	RECEPTACLE MOUNTED ON CORD DROP, 120 VOLT, 20 AMP, UON, OUTLET BOX FLUSH WITH CEILING	
⊕	SINGLE SPECIAL PURPOSE RECEPTACLE WITH VOLTS, AMPS, AND PHASE AS NOTED, NEMA CONFIGURATION AS REQUIRED BY EQUIPMENT	18" UON	⊕	RECEPTACLE MOUNTED ON CORD DROP, 120 VOLT, 20 AMP, UON, OUTLET BOX FLUSH WITH CEILING	
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Chick-fil-A

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark Date By
1 08.09.22
PERMIT ISSUE

Mark Date By
2 09.22.22
PERMIT REVISIONS

Mark Date By
3 10.28.22
PERMIT REVISIONS

Mark Date By
4 01.31.23
ISSUE FOR CONSTRUCTION



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STORE #02182
BENCHWOOD

3339 BENCHWOOD RD.
DAYTON, OH 45414

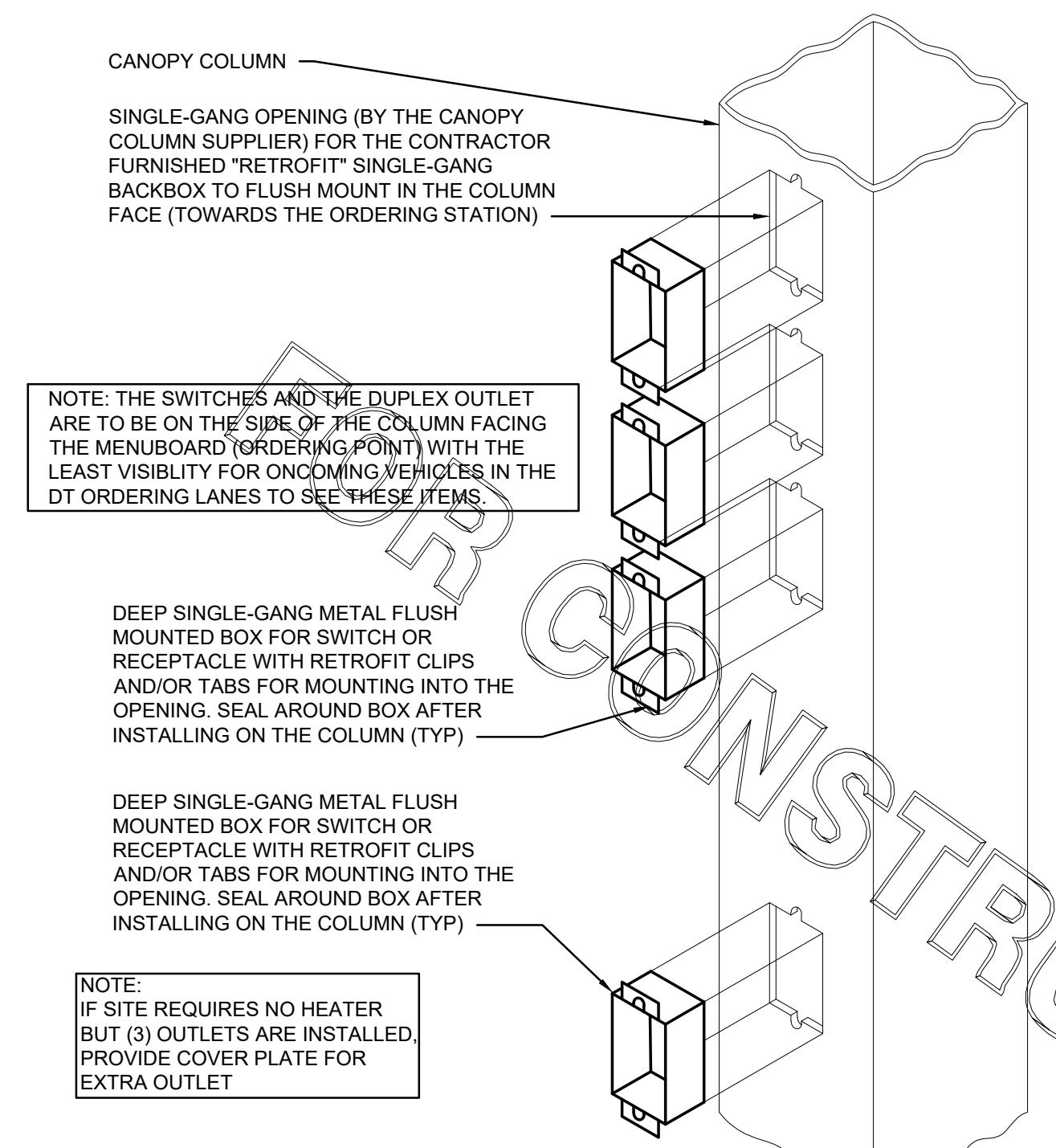
SHEET TITLE
CANOPY PLANS AND DETAILS

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ISSUE DATE: 6.28.2022

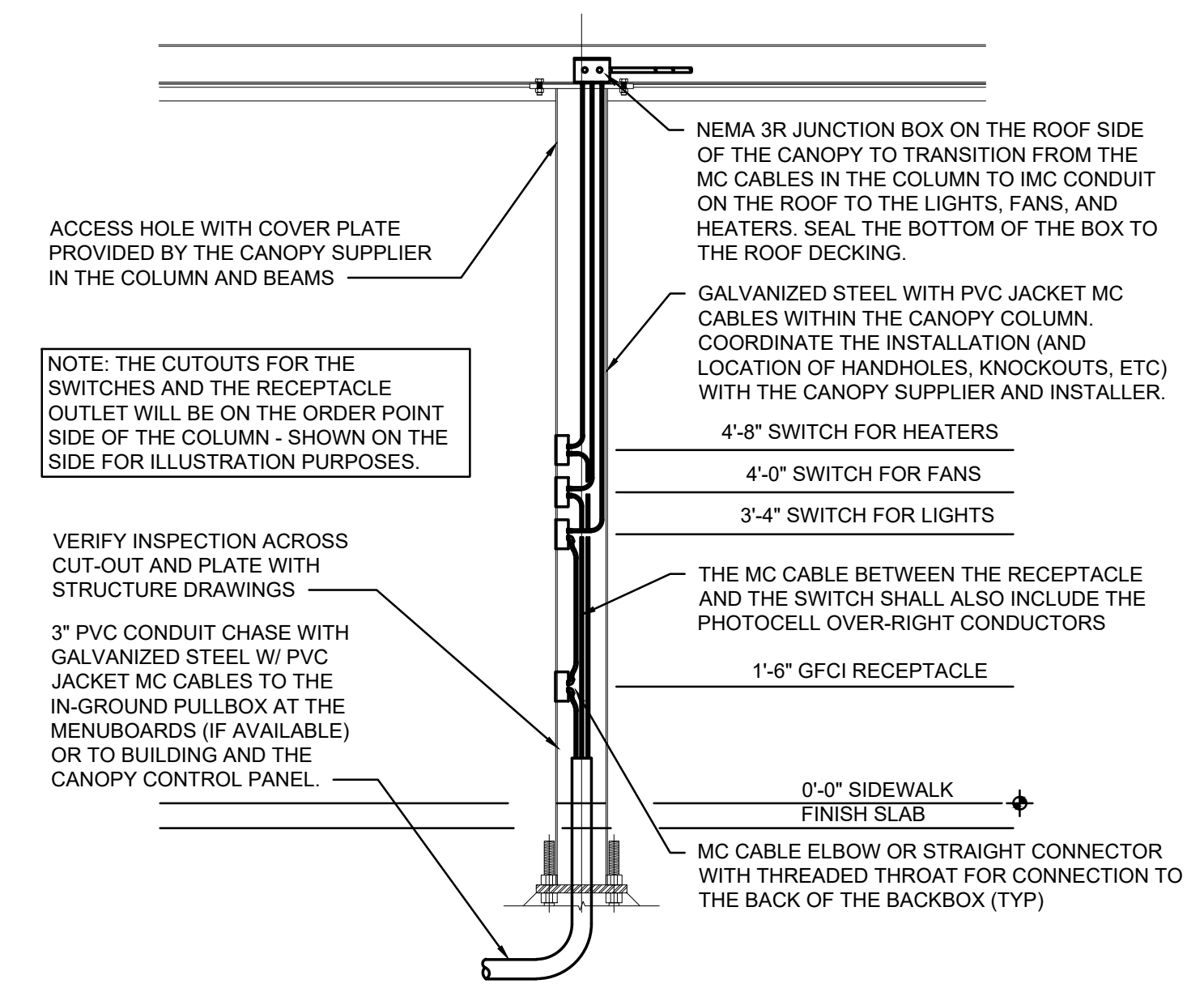
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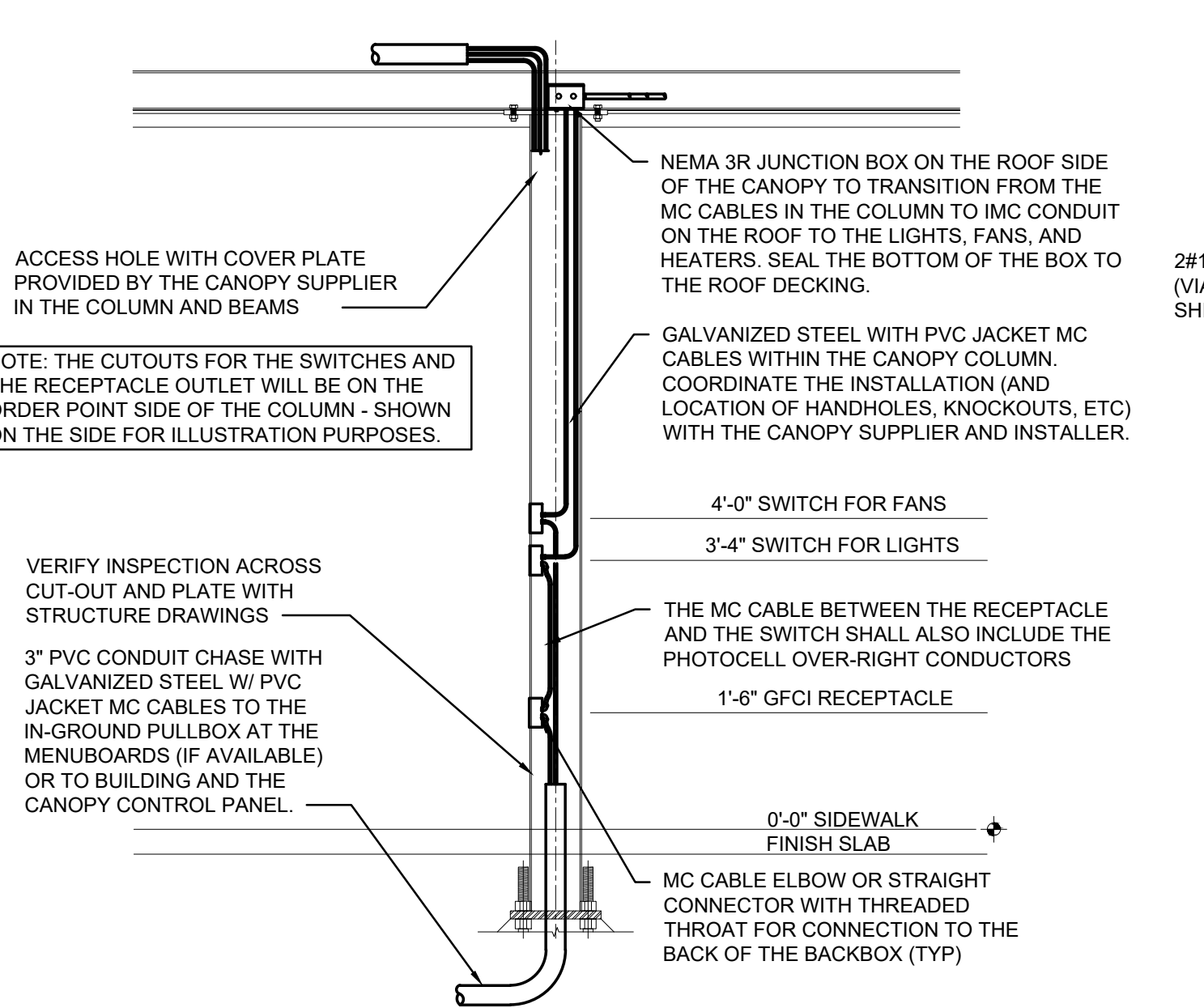
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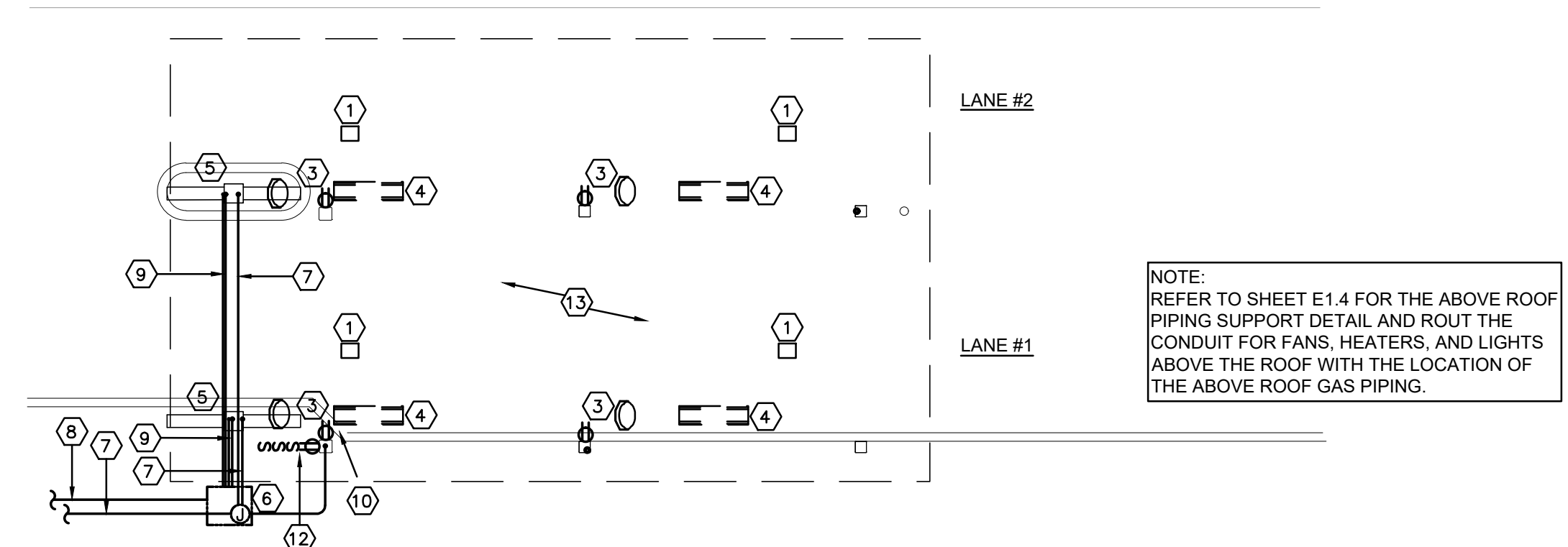
CANOPY COLUMN ISOMETRIC
NOT TO SCALE



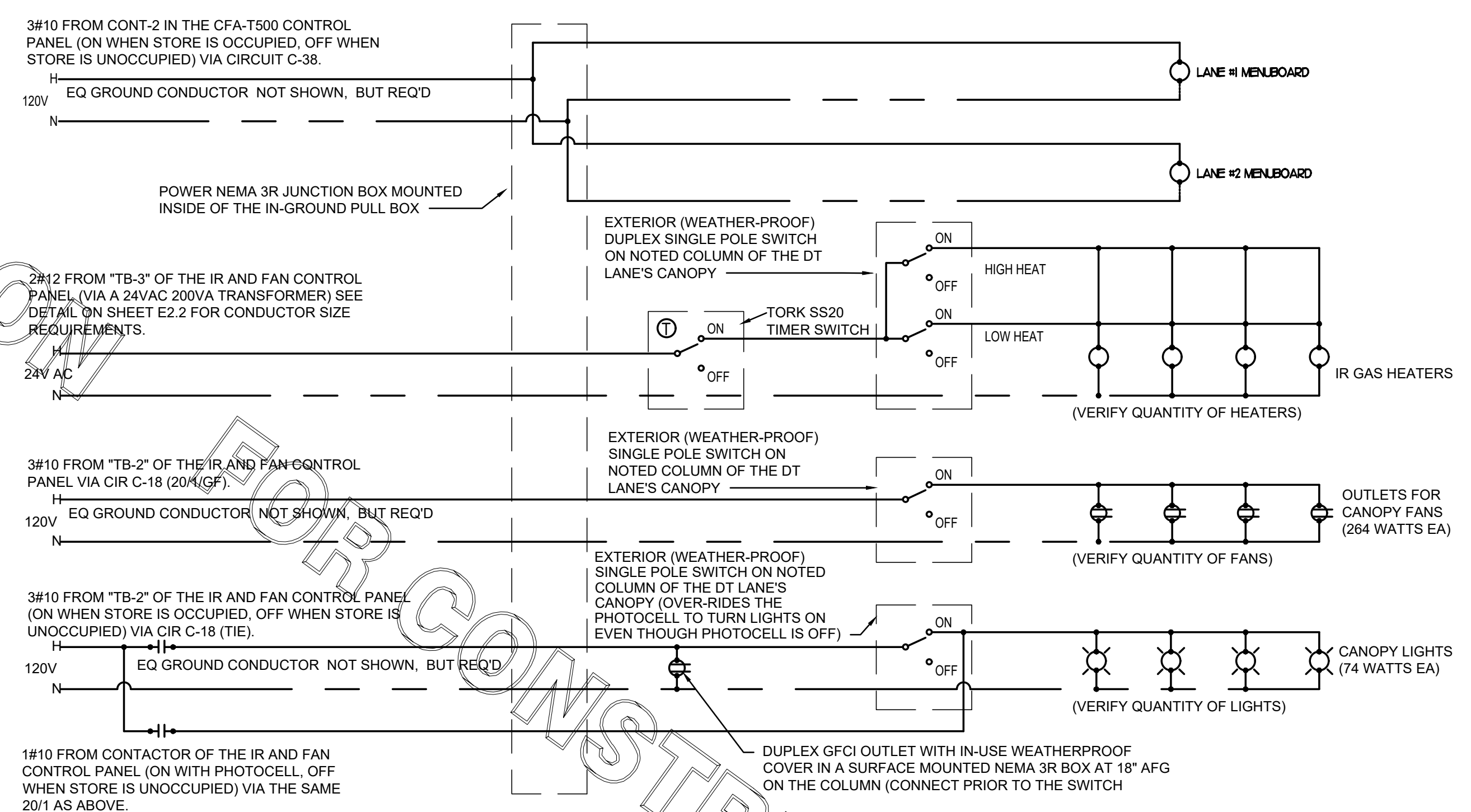
ORDER CANOPY COLUMN SECTION
NOT TO SCALE



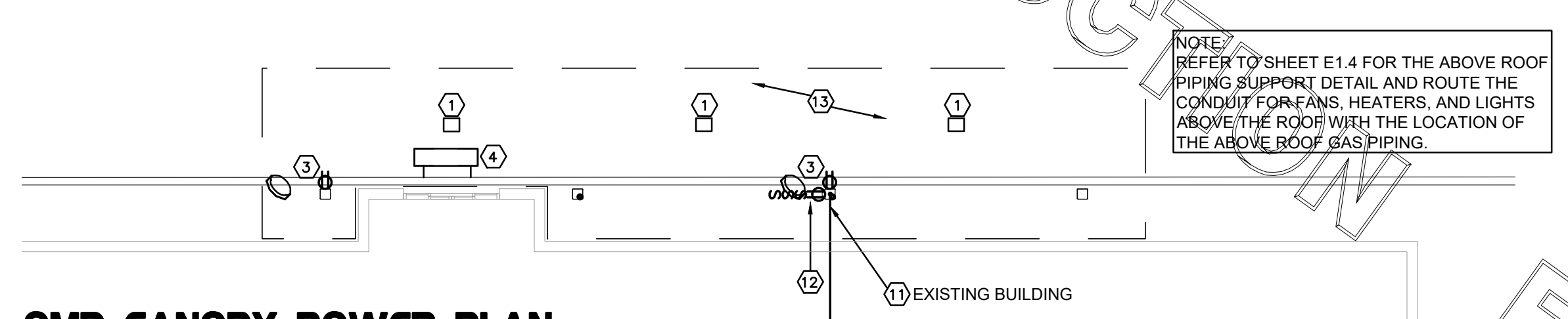
OMD CANOPY COLUMN SECTION
NOT TO SCALE



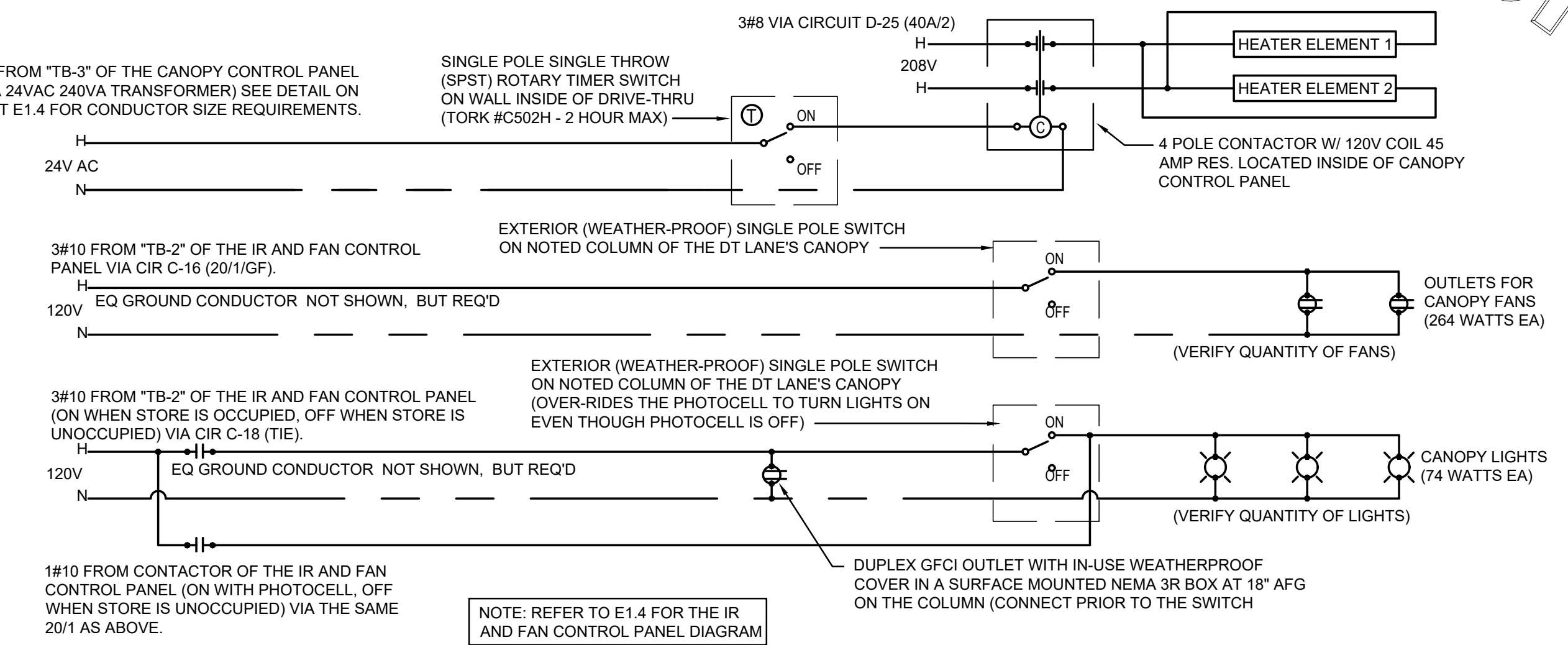
DUAL LANE ORDER CANOPY POWER PLAN
SCALE: 1/8" = 1'-0"



ORDER CANOPY POWER WIRING SCHEMATIC
NOT TO SCALE



OMD CANOPY POWER PLAN
NOT TO SCALE



OMD CANOPY POWER WIRING SCHEMATIC
NOT TO SCALE

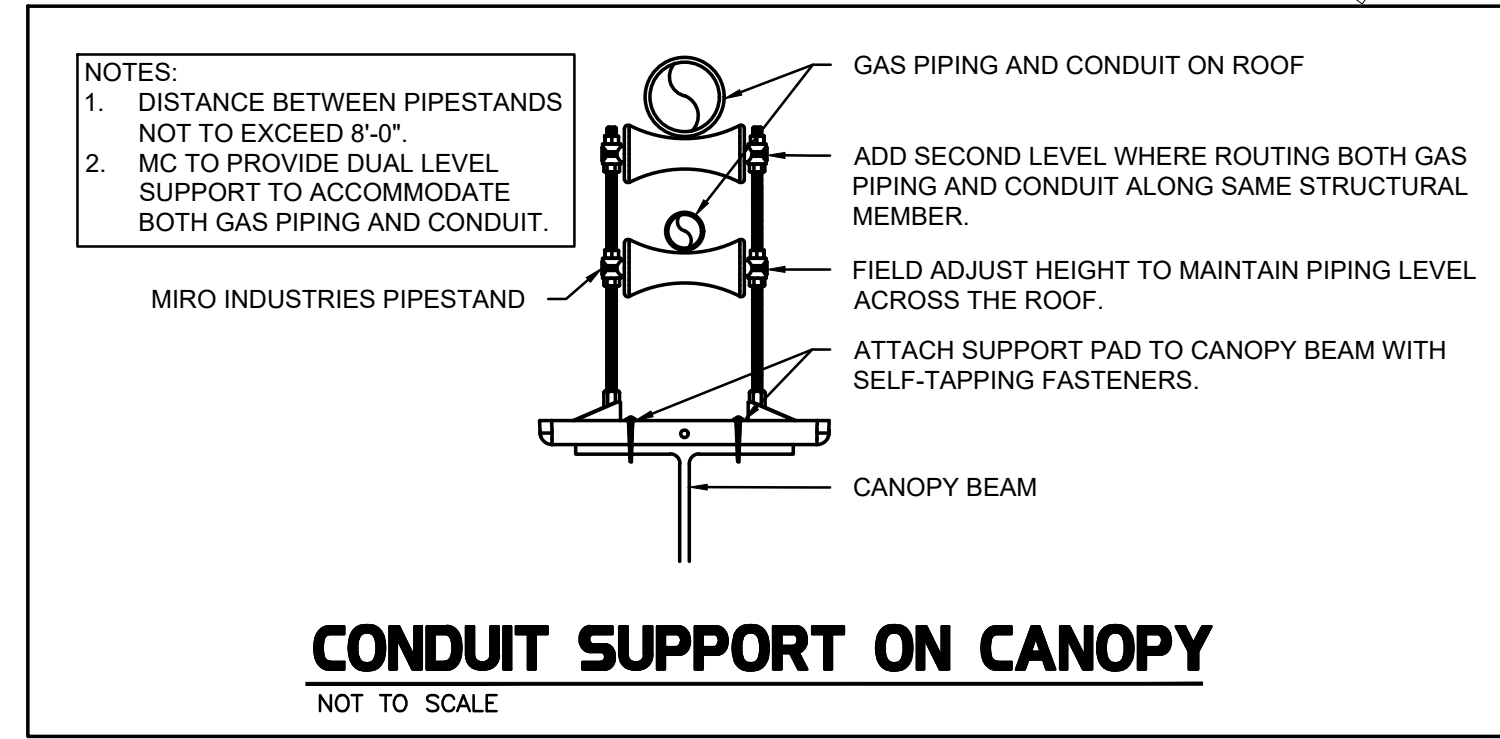
ELECTRICAL KEYNOTES (NEW ORDER POINTS):

- 1 CEILING LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY E.C.
- 2 NOT USED.
- 3 AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED BY OTHERS. PROVIDE A DUPLEX OUTLET (WITH IN-USE WP COVER PLATE) FLUSH MTD. IN CUT-OUT FOR FAN'S PLUG & CORD. LOCATE CUT-OUT AT TOP OF COLUMN ON DOWNSTREAM SIDE.
- 4 INFRARED GAS HEATER WITH INTEGRAL ON-OFF SWITCH PROVIDED BY OTHERS.
- 5 MENUBOARD PROVIDED BY OTHERS.
- 6 PROVIDE IN-GROUND QUAZITE PULLBOX FOR MLOP DATA CABLES WITH POWER NEMA 3R JUNCTION BOX MOUNTED INSIDE THE PULLBOX.
- 7 2" UNDERGROUND SCH40 PVC CONDUIT WITH POWER CONDUCTORS. SEE WIRING SCHEMATIC.
- 8 TWO 2" EMPTY UNDERGROUND SCH40 PVC CONDUIT, ONE 2" FOR OWNER'S AUDIO SYSTEM DETECTOR LOOP CABLES AND ONE 2" FOR OWNER'S DIGITAL MENUBOARD CABLES.
- 9 1" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR OWNER'S AUDIO SYSTEM DETECTOR LOOP CABLES AND 2" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR OWNER'S DIGITAL MENUBOARD CABLES.
- 10 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.
- 11 NOT USED.
- 12 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, 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.
- 13 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 DETAILS OF MOUNTING CONDUIT ON THE ROOF OF THE CANOPY. ALL EXPOSED ELECTRICAL BOXES TO BE NEMA 3R CAST-METAL.

ELECTRICAL KEYNOTES (OMD CANOPY):

- 1 CEILING LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY E.C.
- 2 NOT USED.
- 3 AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED BY OTHERS. PROVIDE A DUPLEX OUTLET (WITH IN-USE WP COVER PLATE) FLUSH MTD. IN CUT-OUT FOR FAN'S PLUG & CORD. LOCATE CUT-OUT AT TOP OF COLUMN ON DOWNSTREAM SIDE.
- 4 WALL MOUNTED 6KW ELECTRICAL WALL HEATER TO BE PROVIDED AND MOUNTED BY MECHANICAL CONTRACTOR.
- 5 THRU 9 NOT USED.
- 10 NOT USED.
- 11 AT EXISTING BUILDINGS STUB A 3" CHASE THRU THE EXTERIOR WALL FROM THE CEILING SPACE ABOVE THE KITCHEN TO ABOVE THE CANOPY'S COLUMN FOR THE MC CABLE POWER CIRCUITS TO GO THRU THE COLUMN MOUNTED SWITCHES AND OUTLET.
- 12 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, 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.
- 13 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 DETAILS OF MOUNTING CONDUIT ON THE ROOF OF THE CANOPY. ALL EXPOSED ELECTRICAL BOXES TO BE NEMA 3R CAST-METAL.

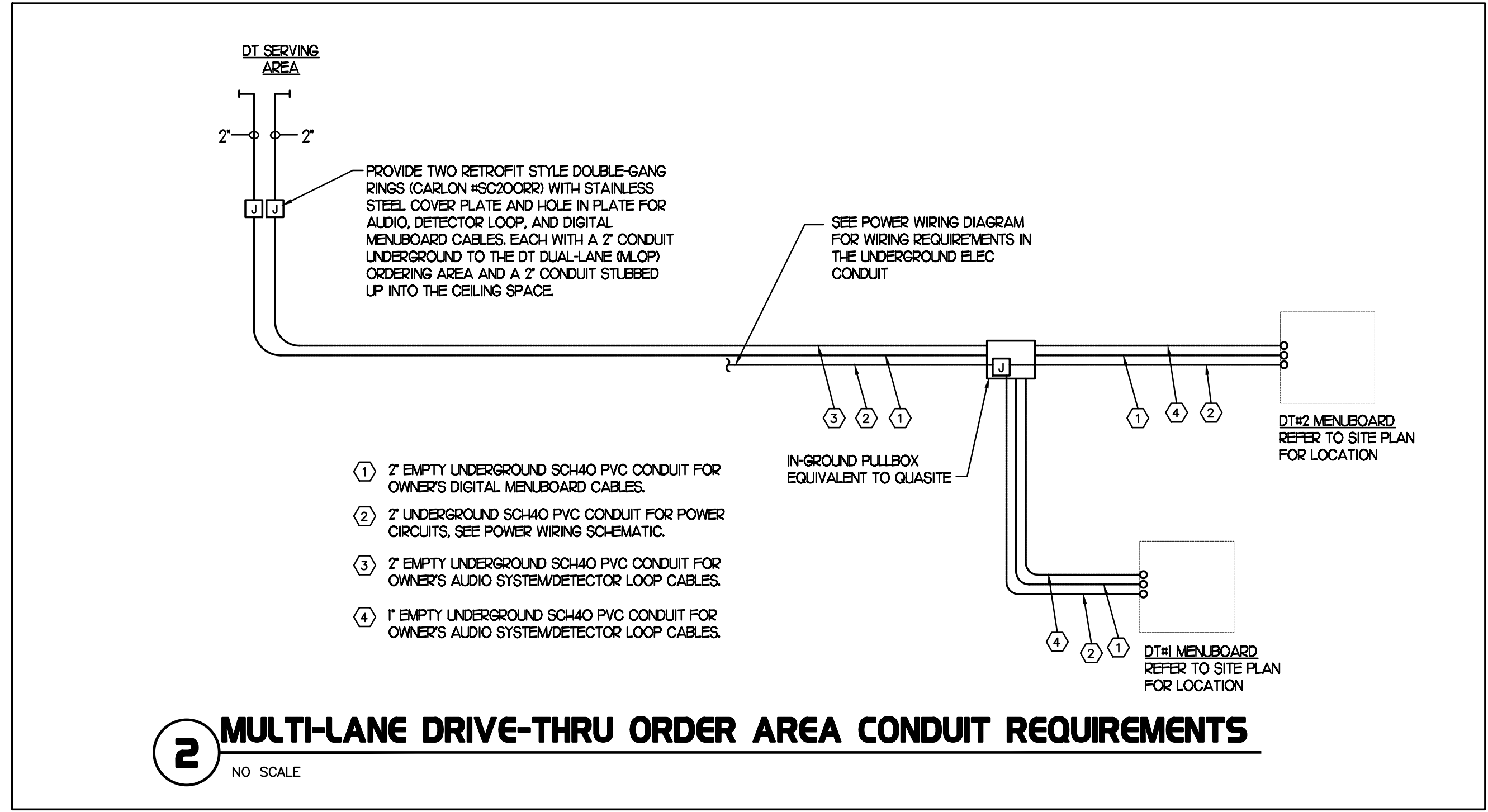
FOR CONSTRUCTION



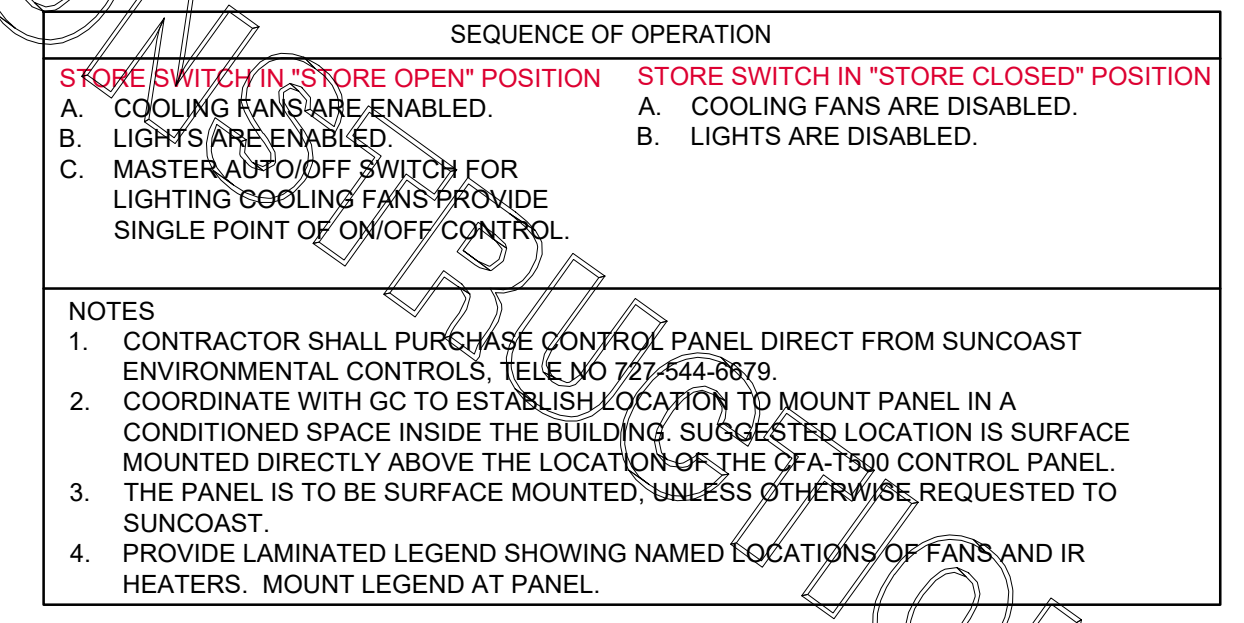
CIRCULATING FAN SCHEDULE					
MARK	CFM	RPM	HP	MODEL	MANUFACTURER
CF	5,750	1,625	1/8	U18TE-HD	TPI
REMARKS	<ol style="list-style-type: none"> ALUMINUM PADDLE WITH STEEL HUB/SPIDER PROPELLER. 360° ROTATING HEAD HORIZONTALLY AND VERTICALLY. OSHA COMPLIANT DOUBLE LOCKING, COATED STEEL WIRE GUARD 3-SPEED, TOTALLY ENCLOSED, PERMANENTLY LUBRICATED BALL BEARING MOTOR. FACTORY PRE-WIPED POWER CORD PROVIDE FACTORY WALL MOUNTING BRACKET. SEE FAN MOUNTING DETAIL ON CANOPY SHOP DRAWINGS FOR TYPICAL INSTALLATION INSTRUCTIONS. 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. REMOVE PULL CHAIN EXTENSION AT ON/OFF SWITCH IN FIELD. FACTORY CERTIFIED FOR OUTDOOR INSTALLATION. 				

NATIONAL ACCOUNTS

- TPI FAN PACKAGE - THE MECHANICAL 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.



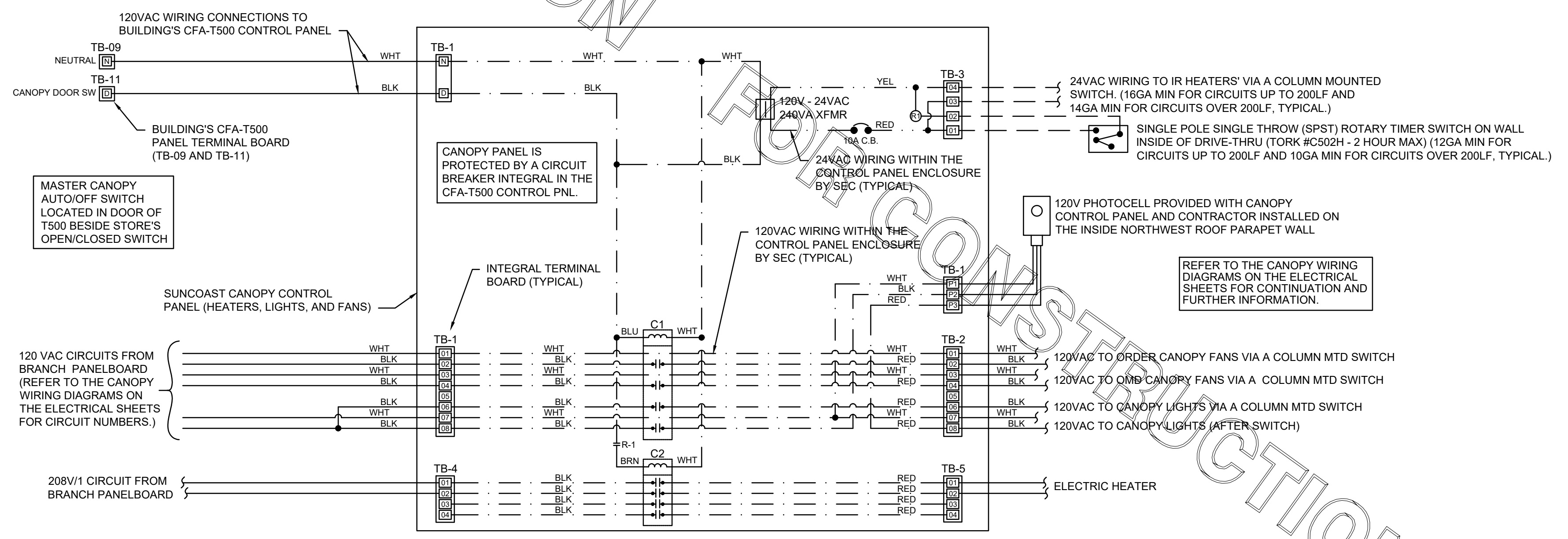
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LEGEND

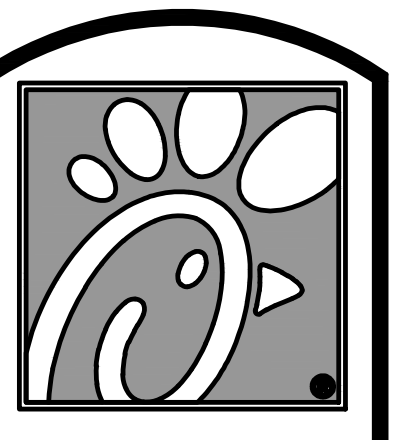
SEC	SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF CONTROL PANELS)
MC	MECHANICAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
---	LOW VOLTAGE BY MECHANICAL CONTRACTOR
---	18 GA. MIN LOW VOLTAGE WIRING BY SUNCOAST
---	120 VOLT BY ELECTRICAL CONTRACTOR
---	120 VOLT BY SUNCOAST

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.



1 SUNCOAST PANEL WIRING DIAGRAM - INFRARED HEATERS, COOLING FANS
NO SCALE

CONNECTING WITH A NEW OR REPLACEMENT CFA-T500 CONTROL PANEL



Chick-fil-A

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:

Mark	Date	By
1	08.09.22	
PERMIT ISSUE		
- REVISIONS		
2	09.22.22	
PERMIT REVISIONS		
3	10.28.22	
PERMIT REVISIONS		
4	01.31.23	
ISSUE FOR CONSTRUCTION		



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STORE #02182
BENCHWOOD

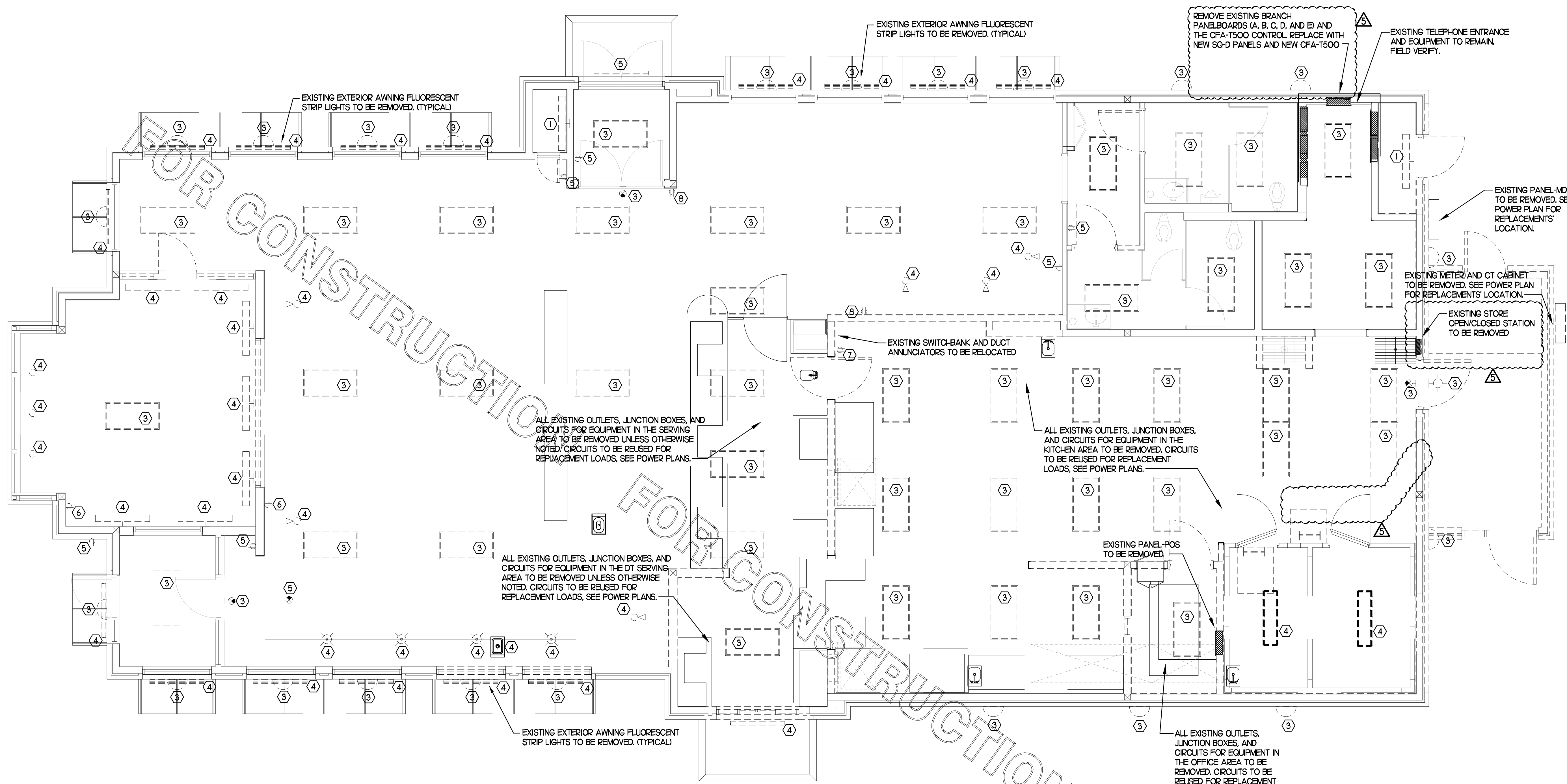
3339 BENCHWOOD RD.
DAYTON, OH 45414

SHEET TITLE
ORDER CANOPY CONTROL PANEL

VERSION: S06C-R
ISSUE DATE: 6.28.2022

Job No. : 20133.CD.R
Store : #2182
Date : 6.28.22
Drawn By :
Checked By :
Sheet

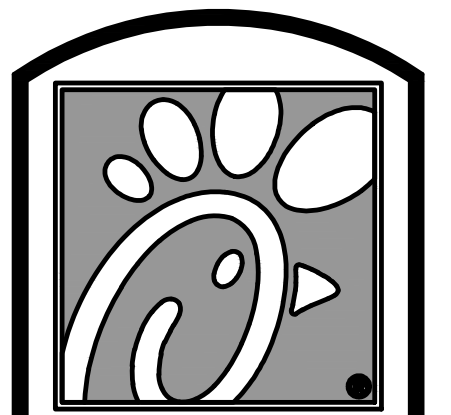
E1.4



1 ELECTRICAL DEMOLITION PLAN
SCALE: 1/4"=1'-0"

THE INFORMATION USED TO DEVELOP THE EXISTING CONDITIONS AS SHOWN ON THESE PLANS IS FROM PREVIOUS BUILDING DRAWINGS. WHAT WAS SHOWN ON PLAN AND WHAT WAS ACTUALLY INSTALLED MAY VARY. FIELD VERIFY ALL EXISTING CONDITIONS.

- 2 KEYNOTES** (APPLY TO THIS SHEET ONLY)
- 1 EXISTING LIGHTING FIXTURE TO REMAIN. CLEAN AND RELAMP THE FIXTURE AND RECONNECT TO THE EXISTING BRANCH CIRCUIT.
 - 2 NOT USED.
 - 3 EXISTING LIGHTING FIXTURE TO BE REMOVED AND REPLACED. SEE THE LIGHTING FLOOR PLAN.
 - 4 NOT USED.
 - 5 EXISTING WIRING DEVICE/JUNCTION BOX TO REMAIN.
 - 6 EXISTING WIRING DEVICE TO BE REPLACED WITH TAMPER-RESISTANT USB CHARGING TYPE DEVICE.
 - 7 RELOCATE EXISTING ELECTRICAL ITEMS AS NECESSARY TO NEWLY FLURRED OUT WALL.
 - 8 EXISTING ELECTRICAL ITEMS TO BE REMOVED AND/OR RELOCATED. SEE THE POWER FLOOR PLAN FOR THE REUSE OF THE EXISTING CIRCUITS.



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5 02.17.23 IFF-REVISION



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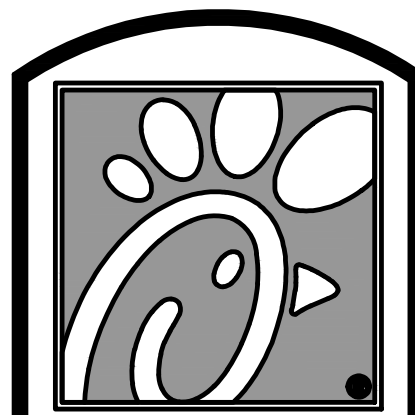
SHEET TITLE
ELECTRICAL
DEMOLITION PLAN

VERSION: S06C-R
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Sheet

E2.0



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BENCHWOOD

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DAYTON, OH 45414

SHEET TITLE
LIGHTING PLAN

VERSION: S06C-R
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Job No.: 20133.CO.R

Store #: #2182

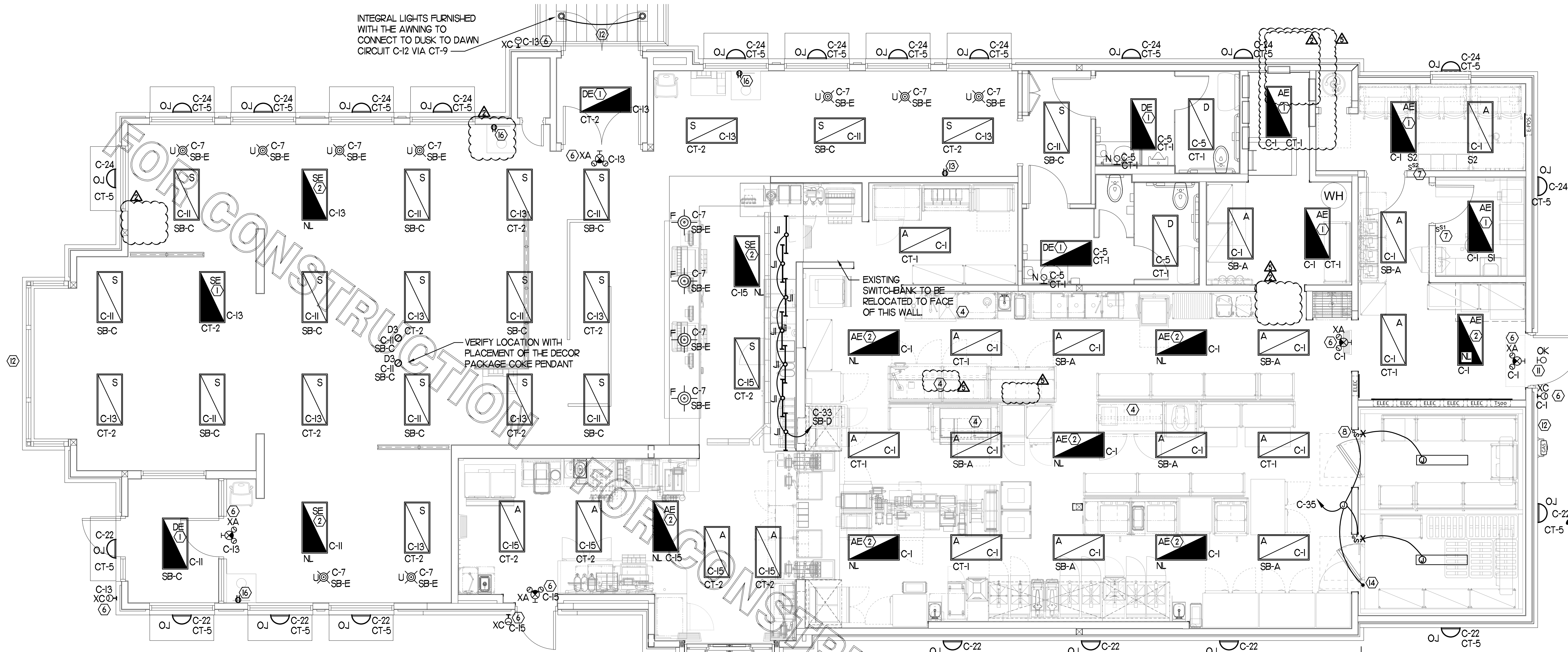
Date: 6.28.22

Drawn By: LK

Checked By: MK

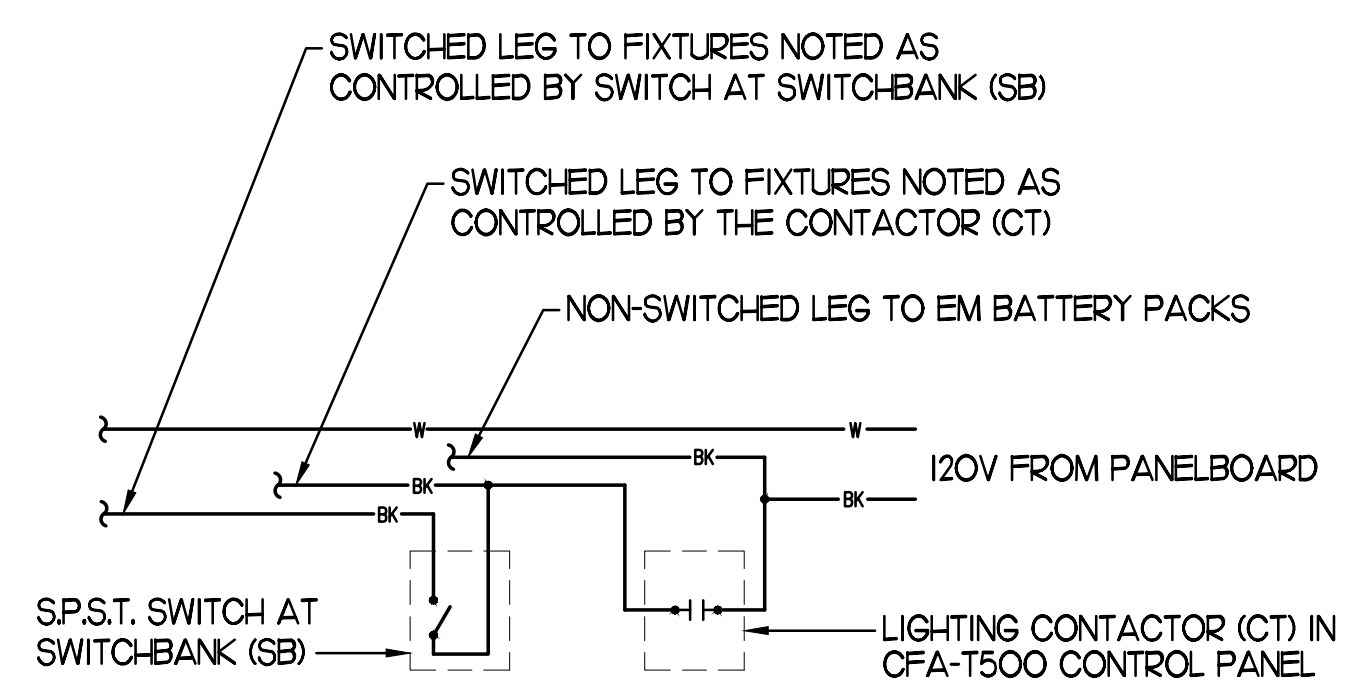
Sheet

E2.1



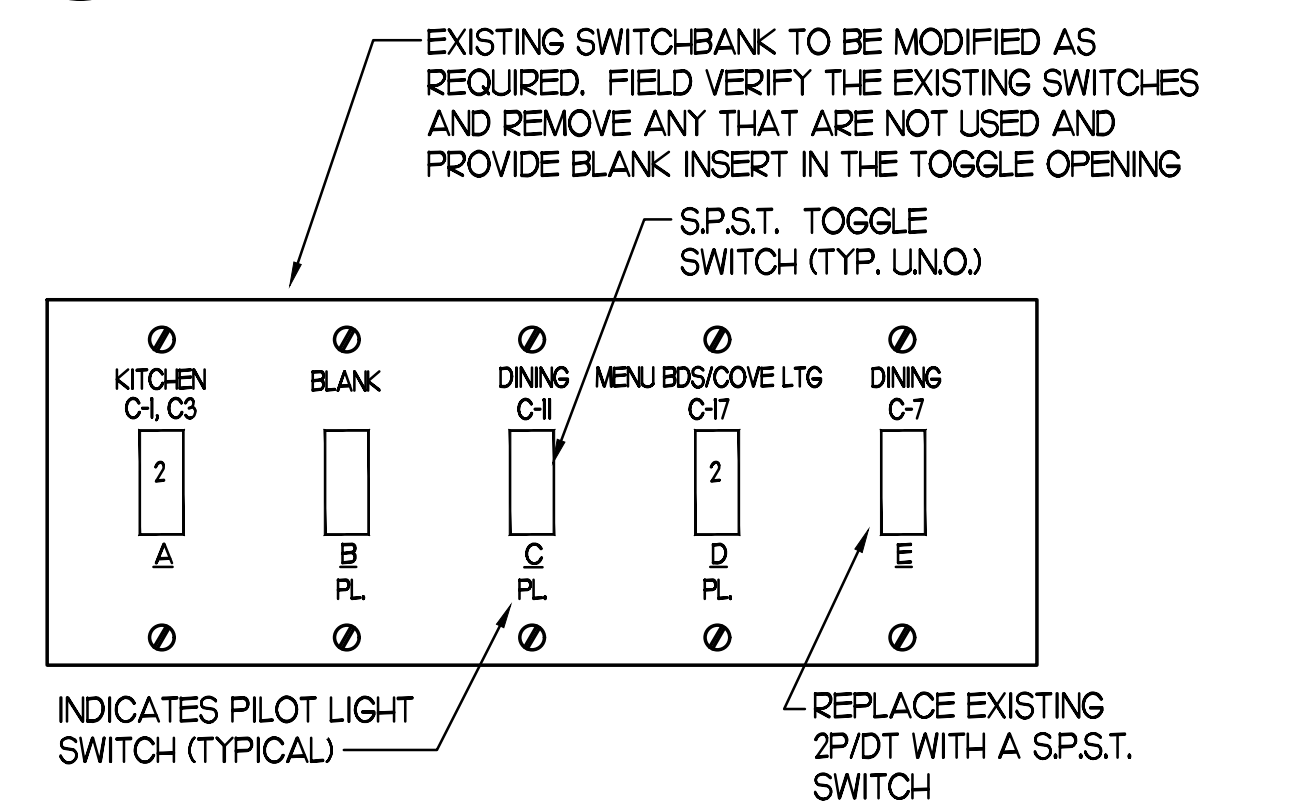
1 LIGHTING PLAN

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



5 TYPICAL LIGHTING CONTROL DETAIL

NO SCALE

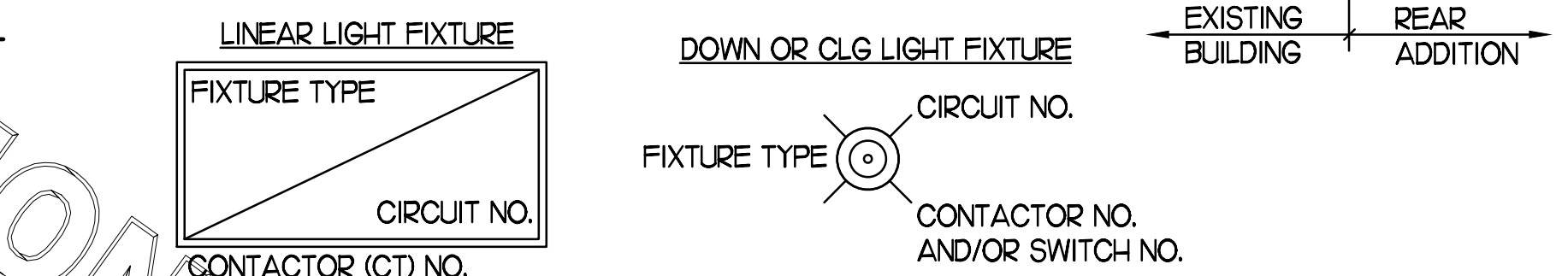


6 EXISTING SWITCH BANK "SB" DETAIL

NO SCALE

4 KEYNOTES (APPLY TO THIS SHEET ONLY)

- CONNECT FIXTURE SO THAT BATTERY PACK IS NOT SWITCHED WITH LIGHTS, BUT LEDS ARE SWITCHED.
- CONNECT FIXTURE SO THAT LEDS AND EMERGENCY BATTERY PACK ARE NOT SWITCHED. 'NL' ADJACENT TO FIXTURE INDICATES THAT FIXTURE SHALL BE ON 24 HOURS.
- THE EXISTING EXTERIOR WALL-MOUNTED FIXTURE TO BE REPLACED. CONNECT REPLACEMENT TO THE EXISTING CIRCUIT.
- PROVIDE A TYPE BI LIGHT FIXTURE. MOUNT TO THE UNDERSIDE OF THE WIRE SHELVING. PROVIDE FLEX CONDUIT AND CONNECT 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.
- NOT USED.
- CONNECT FIXTURE TO CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS. THIS FIXTURE SHALL NOT BE SWITCHED.
- PROVIDE A WALL SWITCH LINE VOLTAGE OCCUPANCY SENSOR EQUIVALENT TO SENSOR SWITCH #WSD-WH
- PILOT LIGHT SWITCH FOR CONTROL OF THE LIGHT INSIDE THE WIC OR WIF UNIT. PROVIDE CONDUIT SEAL-OFF FITTINGS FOR ALL CONDUIT PENETRATIONS THRU THE FREEZER'S WALL. LIGHT FURNISHED WITH THE UNIT BY THE EQUIPMENT SUPPLIER.
- NOT USED.
- NOT USED.
- CONNECT THE "OK" FIXTURE TO C-12 VIA THE EXISTING DUSK-TO-DAWN CIRCUIT IN THE CFA-T500.
- COORDINATE CONNECTION OF REPLACEMENT SIGNAGE TO EXISTING CKT.
- PROVIDE TAMPER-RESISTANT DUPLEX RECEPTACLE AT STANDARD HEIGHT CONNECT TO CIRCUITS B-27.
- TO WALK-IN DOOR FRAME HEATER AND AIR RELIEF ASSEMBLY. J-BOX TO BE ABOVE THE UNIT AND EXTEND DOWN ALONG THE FRONT AT 9'-6" AFF TO HEATER, AIR RELIEF VALVE ASSEMBLY, AND LIGHT SWITCHES.
- PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MTG HT) IN AN ARLINGTON #DVR2W DOUBLE-GANG RECESSED BOX FOR THE FLY SYSTEM ITEM #2IC. CL OF BOX AT 7'-1" AND CONNECT OUTLET TO CIRCUIT B-31.
- PROVIDE TAMPER-RESISTANT DUPLEX RECEPTACLE AT STANDARD HEIGHT FOR FUTURE COMPACTING TRASH CAN ON A DEDICATED 20 AMP CIRCUIT. USE CIRCUITS C-6, C-8, AND C-10.



2 LIGHT FIXTURE NOMENCLATURE DETAIL

NO SCALE

3 LIGHTING FIXTURE (LUMINAIRE) SCHEDULE - CHICK-FIL-A REMODEL STORE #2182

MARK	MANUFACTURER	CATALOG NUMBER	NO. LAMPS/TYPE	WATTS	VOLTS	MOUNTING	REMARKS
A	COOPER/METALLUX	24FP6440C	INTEGRAL WITH FIXTURE	59.4	120	RECESSED	KITCHEN AREA, 2'X4' LED PANEL TROFFER, 4000K COLOR TEMP
AE	COOPER/METALLUX	24FP6440C-EL14W	INTEGRAL WITH FIXTURE	59.4	120	RECESSED	SAME AS 'A' WITH EMERGENCY BATTERY PACK. SEE PLAN NOTES ABOUT LAMP SWITCHING
BI	METALLUX	2VT3-LD5-UNV-L840-CDI-SSL-U	INTEGRAL WITH FIXTURE	32	120	SURFACE	MOUNT LIGHT TO BTM OF OVER-HEAD WIRE SHELVING WITH CORD & PLUG
D	COOPER/METALLUX	24AC-LD5-55-UNV-L830-CDI-U/DF-24-W	INTEGRAL WITH FIXTURE	49.2	120	RECESSED	TOILET/VESTIBULE AREA, 2'X4' LED BASKET TROFFER WITH DRYWALL FRAME KIT
DE	COOPER/METALLUX	24AC-LD5-55-UNV-EL14W-L830-CDI-U/DF-24-W	INTEGRAL WITH FIXTURE	49.2	120	RECESSED	SAME AS 'D' WITH EMERGENCY BATTERY PACK
D3	COOPER/HALO	H06-20-DOIO-HM6-12-830-6I-ND-C	INTEGRAL WITH FIXTURE	21	120	RECESSED	PUBLIC AREA, 6" DIAMETER LED DOWNLIGHT
D3E	COOPER/HALO	H06-20-DOIO-HEM14-HM6-12-830-6I-ND-C	INTEGRAL WITH FIXTURE	21	120	RECESSED	SAME AS 'D3' WITH EMERGENCY BATTERY PACK
F	MEYDA	30894-8 (144638)	I-SATS9238	12	120	CEILING	EGG LIGHT FURNISHED WITH A 12 WATT A19-GU24 LED LAMP
J	COOPER/METALLUX	SSF-132-UNV-EB8H-U	I-FO2B/835XP/SS/ECO	28	120	COVE	MOUNT IN MENU BOARD COVE AND PROVIDE TUBE GUARDS ON LAMPS
N	MINKA	4531-267B	I-LEDIA19/827D	11	120	WALL	LAVATORY WALL SCONCE SHADE POINTED DOWN W/ LED LAMP & CL ON LAVATORY
S	COOPER/METALLUX	24AC-LD5-55-UNV-L830-CDI-U	INTEGRAL WITH FIXTURE	49.2	120	RECESSED	DINING AREA, 2'X4' VOLUMETRIC RECESSED LED TROFFER
SE	COOPER/METALLUX	24AC-LD5-55-UNV-EL14W-L830-CDI-U	INTEGRAL WITH FIXTURE	49.2	120	RECESSED	SAME AS 'S' WITH EMERGENCY BATTERY PACK
U	BESA LIGHTING	BES00298-060	FURNISHED	7.5	120	PENDANT	MONO-POINT PENDANT, RED FRIT GLASS, BRONZE CABLE & CANOPY, 6'-6" AFF
XA	COOPER/SURE-LITES	APCHTR	INTEGRAL WITH FIXTURE	411	120	WALL	EXIT SIGN WITH BATTERY PACK AND TWO INTEGRAL ADJUSTABLE LAMP-HEADS
XC	MULE LTG	MAKO-LED-ACEMNK-IH	INTEGRAL WITH FIXTURE	13	120	WALL	EXTERIOR WALL MOUNTED EMERGENCY LIGHTING UNIT, LOCATE NEAR EGRESS DOOR
OJ	SECURITY LTG	RWSC-72L-3K-LD-U-DB	FURNISHED	25	120	WALL	UP/DOWN LED EXTERIOR WALL SCONCE, SEE ELEVATIONS FOR MOUNTING HEIGHT
OK	HUBBELL	LNO-5LU-3K-3-I	FURNISHED	12.9	120	WALL	LED WALLPACK W/ CENTERLINE OF FIXTURE AT 8'-0" ABV 0'-0" FINISH FLOOR LINED

- NOTES:
- 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 410.10(B).
 - THE LIGHTING FIXTURE PACKAGE IS AVAILABLE THROUGH A NATIONAL ACCOUNT PROGRAM. REFER TO THE ELECTRICAL SPECIFICATIONS SHEET, SECTION C16500 FOR VENDOR INFORMATION.
 - THE ASTERISK (*) BEHIND THE FIXTURE MARK IN THE ABOVE SCHEDULE INDICATES THE FIXTURE IS A NON-PROTOTYPICAL LIGHT FIXTURE PER THE CFA NATIONAL P12 PROTOTYPE.



Chick-fil-A

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STORE #02182
BENCHWOOD

3339 BENCHWOOD RD.
DAYTON, OH 45414

SHEET TITLE
LARGE SCALE
KITCHEN POWER

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Sheet
E2.2

NOTE FOR GF TYPE RECEPTACLES:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 120 VOLT, 15 AND 20 AMP RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE RECEPTACLE VIA A GROUND FAULT TYPE RECEPTACLE UNLESS OTHERWISE NOTED ON THE PLANS. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
REPLACEMENT OF EXISTING RECEPTACLES WITH GFCI TYPE (OR DROP CORD CIRCUITS WITH GFCI TYPE BREAKERS) MAY BE REQ'D - FIELD VERIFY.

NOTE: NEC 110.26 REQUIRES WORKING CLEARANCE, 30 INCHES WIDE (OR WIDTH OF EQUIPMENT, WHICHEVER IS GREATER), 36 INCHES DEEP, AND 6'-6" HIGH AREA MAY BE CENTERED OR TO THE LEFT OR RIGHT OF THE PANEL AND MAY OVER-LAP CLEARANCE OF AN ADJACENT PANEL.

2 KITCHEN EQUIP NOMENCLATURE
NO SCALE

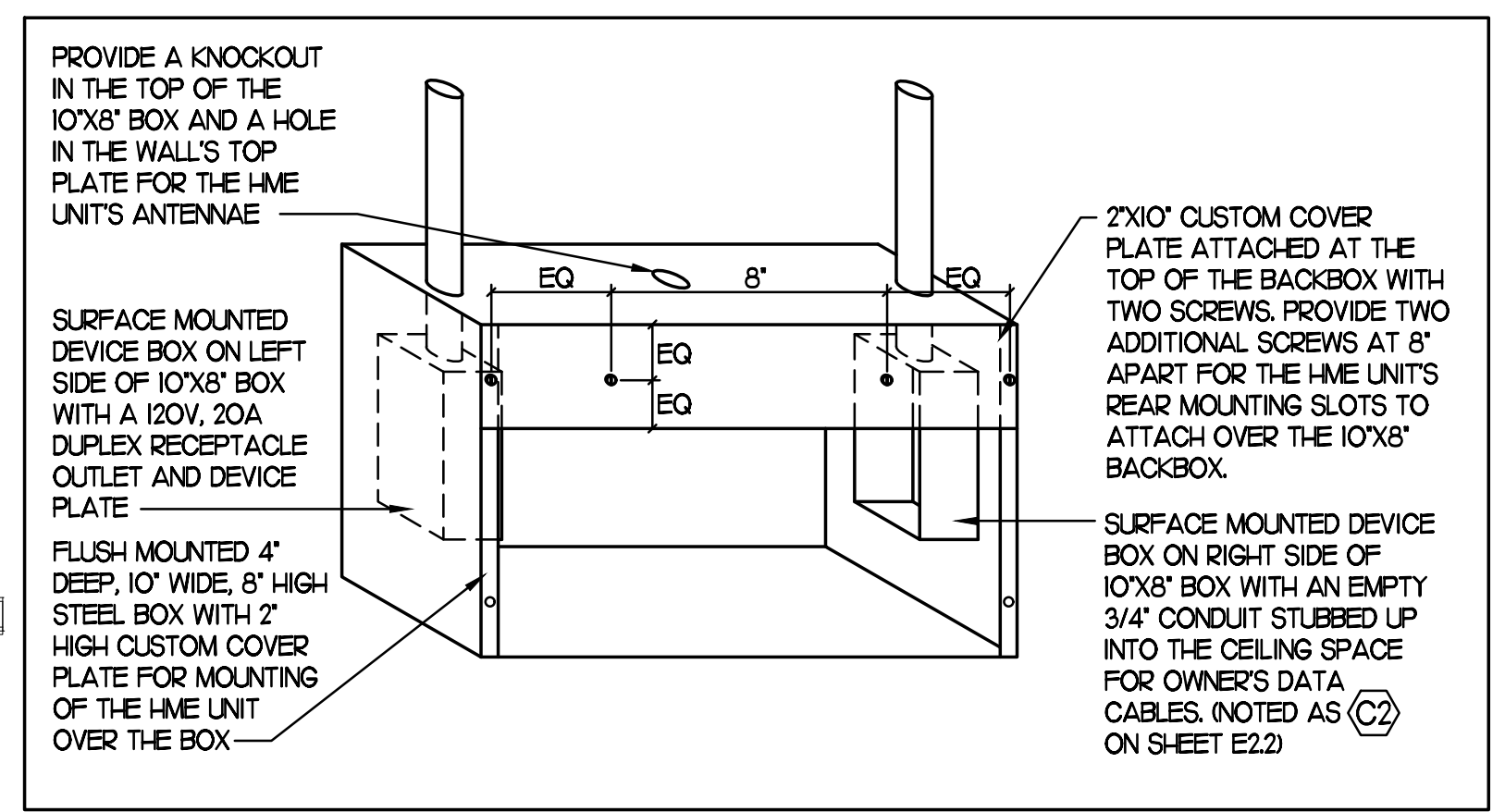
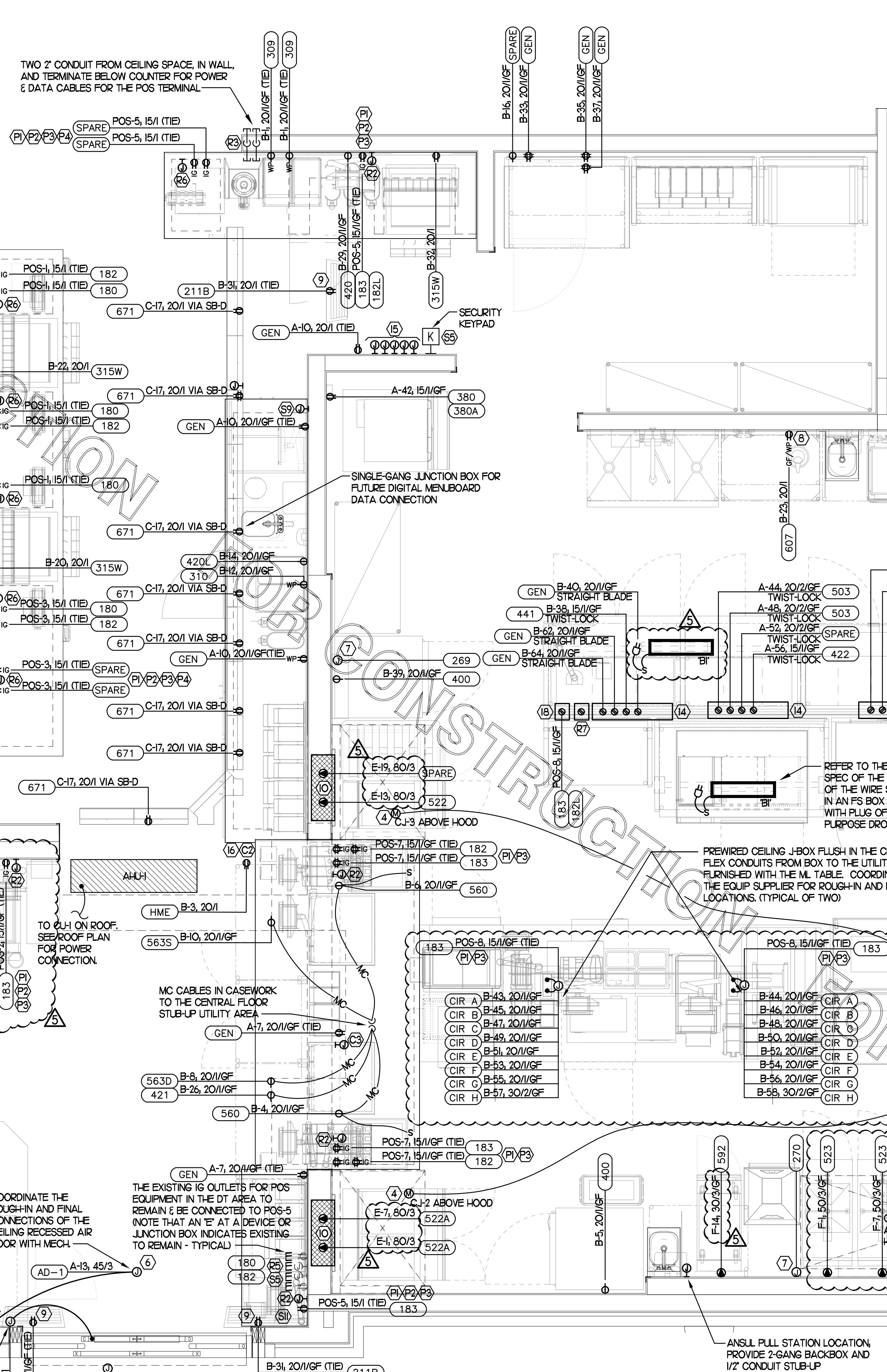
KITCHEN EQUIPMENT MARK NUMBER, SEE SCHEDULE FOR REQUIREMENTS

PANEL AND CIRCUIT NUMBER

BRANCH BREAKER SIZE (AMP/POLES), REFER TO THE CONDUIT AND CONDUCTOR SCHEDULE FOR WIRE AND CONDUIT SIZE RELATED TO THE BREAKER (VERIFY)

XX - X-XX, AMP/POLE

REFER TO THE KITCHEN ELEVATIONS FOR THE ROUGH-IN HEIGHT



3 HME UNIT'S POWER & DATA BOX DETAIL
NO SCALE

PROVIDE A KNOCKOUT IN THE TOP OF THE 10'X8" BOX AND A HOLE IN THE WALL'S TOP PLATE FOR THE HME UNITS' ANTENNAE

SURFACE MOUNTED DEVICE BOX ON LEFT SIDE OF 10'X8" BOX WITH A 120V, 20A DUPLEX RECEPTACLE OUTLET AND DEVICE PLATE

FLUSH MOUNTED 4" DEEP, 10" WIDE, 8" HIGH STEEL BOX WITH 2 HIGH CUSTOM COVER PLATE FOR MOUNTING OF THE HME UNIT OVER THE BOX

2'X10" CUSTOM COVER PLATE ATTACHED AT THE TOP OF THE BACKBOX WITH TWO SCREWS. PROVIDE TWO ADDITIONAL SCREWS AT 8" APART FOR THE HME UNITS' REAR MOUNTING SLOTS TO ATTACH OVER THE 10'X8" BACKBOX.

SURFACE MOUNTED DEVICE BOX ON RIGHT SIDE OF 10'X8" BOX WITH AN EMPTY 3/4" CONDUIT STUBBED UP INTO THE CEILING SPACE FOR OWNERS DATA CABLES. (NOTED AS C22 ON SHEET E2.2)

ANSUL FULL STATION LOCATION. PROVIDE 2-GANG BACKBOX AND 1/2" CONDUIT STUB-UP

PROVIDE IN-SIGHT DISCONNECT SWITCH IF REQUIRED BY AHJ. OTHERWISE PROVIDE PAD-LOCKING DEVICE ON BRANCH BREAKER.

1 LARGE SCALE KITCHEN POWER PLAN
SCALE: 1/2" = 1'-0"

REFER TO SHEET E2.3 FOR THE KEYNOTES ON THIS SHEET.

2 KEY NOTES - POWER:

- 1 CONNECT EVAPORATOR UNIT IN FREEZER TO FREEZER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE ROOF POWER PLAN.
- 2 CONNECT EVAPORATOR UNIT IN COOLER TO COOLER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE ROOF POWER PLAN.
- 3 PROVIDE A 120V CONNECTION TO THE SOVA MOTORIZED DAMPER IN THE DUCTWORK SERVING THE SERVICE AREA. COORDINATE WITH MECHANICAL CONTRACTOR.
- 4 CONNECT AS REQUIRED TO CJ FAN VIA SPEED CONTROLLER. CONNECT HOMERUN VIA RELAY IN T-500 CONTROL SECTION.
- 5 PROVIDE DOUBLE GANG BOX AND DOUBLE GANG DECORA PLATE FOR SWITCHES.
- 6 PROVIDE A JUNCTION BOX ABOVE CEILING FOR THE AIR DOOR ABOVE THE DT SLIDING DOOR. COORDINATE WITH THE MECHANICAL DRAWINGS, AND WITH THE UNIT'S SUPPLIER FOR THE ROUGH-IN REQUIREMENTS AND ANY CONTROL WIRING.
- 7 PROVIDE 3#12 IN 1/2" CONDUIT BETWEEN THE T-500 CONTROL PANEL AND THE ANSUL SYSTEM PANEL. SEE ANSUL SYSTEM WIRING DIAGRAM FOR ADDITIONAL INFORMATION.
- 8 PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLE IN COMPLIANCE WITH THE NEC REQUIREMENT FOR KITCHENS. IF NOT NOTED AS GFCI, THEN THE BREAKER IS TO BE GFCI TYPE.
- 9 PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MTG HT) IN AN ARJUNCTION BOX WITH 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 THE OUTLETS FOR THE OPEN FRYERS (ITEM #522) ARE FURNISHED BY THE EXHAUST HOOD SUPPLIER AND INSTALLED BY THE CONTRACTOR.
- 11 TWO 2" TELEPHONE SERVICE ENTRANCE CONDUITS, AND ONE 3" ISP SERVICE CONDUIT. EXTEND WITH PULL STRING FROM THE J-BOX TO THE UTILITY SOURCE. INSTALL IN THE SAME TRENCH AS THE NEW SECONDARY ELECTRICAL SERVICE CONDUITS.
- 12 LOCATE SINGLE-POLE SWITCH SHALL SERVE AS THE LOCAL DISCONNECT FOR EQUIPMENT ITEM AS NOTED. THE SWITCH SHALL BE COOPER #52983 AND INSTALLED PER THE DETAILS ON SHEET E2.
- 13 PROVIDE TWO 6" X 6" X 4" J-BOXES (ONE FOR TELEPHONE AND ONE FOR ISP) AT 6'-6" AFF AND EXTEND A 2" CONDUIT WITH PULL STRING 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 AT THE BOTTOM OF THE BACKBOARD WITH A #6 AWG INSULATED CU GROUNDING CONDUCTOR IN A 3/4" CONDUIT FROM THE GROUND BAR TO THE BUILDING'S ELECTRICAL SERVICE GROUNDING ELECTRODE SYSTEM (GES). 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, CONNECT TO CIRCUIT POS-12 (56A) BRANCH BREAKER, AND LABEL THE RECEPTACLE FOR FIBER TO CABLE MODEM USE ONLY.
- 14 OVER-HEAD EQUIPMENT POWER (OEP) DROP CORD RECEPTACLES FROM A FLUSH MOUNTED CEILING OEP BOX. PROVIDE A C-S OEP ASSEMBLY #12350-1000. ASSEMBLY WILL CONSIST OF A FLUSH CEILING OUTLET BOX, TWIST-LOCK PENDANT RECEPTACLES, STRAIGHT BLADE PENDANT RECEPTACLES, BRIDS, STRAIN RELIEF, AND TWIST-LOCK PLUGS. CONTACT BRIDGD DEFRAMESH4 EMAIL: BRIDGD1985@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 #F5075-U-GH-5 OR EQUIVALENT.
- 15 PROVIDE FIVE 2-GANG DEEP BOXES (2" MIN) 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.
- 16 RELOCATE EXISTING POWER AND CABLE CONNECTIONS FOR THE WIRELESS COMM (HME) SYSTEM TO THIS LOCATION (FIELD VERIFY). SEE HME UNITS DETAIL ON SHEET E22.
- 17 PROVIDE GFCI PROTECTION FOR DISHWASHER #363 USING NORTH SHORE SAFETY PRODUCT MODEL PGFS-8608. COORDINATE MOUNTING OF THE DEVICE ABOVE PANELBOARD.
- 18 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 OUTLET BACK BOX AND CONNECT THE CORD TO AN OUTLET BOX CONTAINING TWO 15 AMP 16 (ORANGE) RECEPTACLE OUTLETS. OUTLET BOX TO BE MOUNTED TO THE OVER-HEAD SHELVING AT THE PRINTER AND MONITOR MOUNTING BRACKET.

7 KEY NOTES - SECURITY:

- 51 PROVIDE SINGLE GANG JUNCTION BOX AND STAINLESS STEEL COVER PLATE WITH 7/8" HOLE IN CENTER. EXTEND 1" E.C. UP IN WALL TO ABOVE ACCESSIBLE CEILING.
- 52 PROVIDE 4" W X 4" H X 3" D FLUSH JUNCTION BOX WITHOUT COVERPLATE. EXTEND 2" RIGID CONDUIT UP TO ABOVE ACCESSIBLE OFFICE CEILING AREA AND PROVIDE BUSHING ON CONDUIT END.
- 53 PROVIDE A 4" W X 4" H X 3" D JUNCTION BOX WITHOUT COVERPLATE AND EXTEND A 2" CONDUIT DOWN AND BELOW GRADE TO EACH OF THE SITE'S POLE MOUNTED CAMERA LOCATIONS (SEE ELECTRICAL SITE PLAN FOR CONTINUATION) AND A 2" CONDUIT UP INTO THE ACCESSIBLE CEILING SPACE WITH A BUSHING ON THE CONDUIT END. PROVIDE A SINGLE-GANG JUNCTION BOX ADJACENT TO THE DOUBLE-GANG BOX WITH A 15" CONDUIT DOWN TO A SECOND SINGLE-GANG JUNCTION BOX AT THE CCTV MONITOR LOCATION.
- 54 PROVIDE TWO GANG WEATHER-PROOF JUNCTION BOX AND STAINLESS STEEL PLATE WITH 7/8" HOLE IN CENTER FOR PANIC BUTTON. MOUNT AT 48" AFF. EXTEND 1/2" RIGID CONDUIT UP TO ABOVE ACCESSIBLE CEILING WITH CONDUIT SEAL FITTING. SEAL CONDUIT PENETRATION AT WIC/WIF CEILING.
- 55 PROVIDE SINGLE GANG BOX WITHOUT COVER PLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING AND TURN TOWARD SERVING AREA SIDE OF WALL.
- 56 PROVIDE SINGLE GANG JUNCTION BOX ON INSIDE FACE OF PARAPET WALL APPROX. 12" BELOW TOP OF PARAPET WALL. EXTEND 1/2" CONDUIT DOWN TO ABOVE ACCESSIBLE OFFICE CEILING.
- 57 EXTEND 1/2" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.
- 57A EXTEND 3/4" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.
- 58 EXTEND 1/2" RIGID CONDUIT FROM A POINT 3" WITHIN EITHER HINGE-SIDE DOOR VERTICAL FRAME MULLION TO ABOVE ACCESSIBLE CEILING.
- 59 PROVIDE SINGLE GANG JUNCTION BOX WITHOUT COVERPLATE. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING AND TURN TOWARD SERVING AREA SIDE OF WALL.
- 59A PROVIDE SINGLE GANG WEATHER-PROOF JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED 18" FROM THE CORNER OF THE SERVICE YARD AND JUST BELOW ROOF DECK MOUNTING BRACKETS. ROUTE 1" EMT CONDUIT FROM THE BOX SURFACE MOUNTED JUST BELOW THE ROOF DECK MOUNTING BRACKETS AND TERMINATE THE CONDUIT AT 512.
- 59B EXTEND 1/2" RIGID CONDUIT FROM A POINT 3" WITHIN STRIKE-SIDE WINDOW FRAME MULLION TO ABOVE ACCESSIBLE CEILING.
- 59C PROVIDE SINGLE GANG WEATHER-PROOF JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED JUST ABOVE THE STRIKE SIDE OF OUTSIDE DOOR ON INSIDE OF SERVICE YARD. ROUTE 1" EMT CONDUIT SURFACE MOUNTED FROM BOX JUST BELOW THE ROOF DECK MOUNTING BRACKETS. TERMINATE CONDUIT IN THE ACCESSIBLE CEILING SPACE INSIDE THE BUILDING.

THE INFORMATION USED TO DEVELOP THE EXISTING CONDITIONS AS SHOWN ON THESE PLANS IS FROM PREVIOUS BUILDING DRAWINGS AND PHOTOS OF EXISTING PANEL SCHEDULES. WHAT WAS SHOWN ON PLAN AND WHAT WAS ACTUALLY INSTALLED MAY VARY. FIELD VERIFY ALL EXISTING CONDITIONS.

3 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 BUSHINGS 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.

4 KEY NOTES - COMMUNICATIONS:

- 61 PROVIDE TWO RETROFIT STYLE DOUBLE-GANG RINGS (CARLON #SC200RR) WITH STAINLESS STEEL COVER PLATE AND HOLE IN PLATE FOR AUDIO, DETECTOR LOOP, AND DIGITAL MENUBOARD CABLES. EACH WITH A 2" CONDUIT UNDERGROUND TO THE DT DJAL-LANE (MLOP) ORDERING AREA AND A 2" CONDUIT STUBBED UP INTO THE CEILING SPACE.
- 62 PROVIDE JUNCTION BOX, LESS COVER PLATE, AND EXTEND 3/4" E.C. UP IN WALL TO ABOVE CEILING FOR INSTALLATION OF WIRELESS COMMUNICATION CONTROL UNIT.
- 63 PROVIDE SINGLE-GANG JUNCTION BOX ABOVE THE PASS THRU OPENING WITH A 1" EMPTY CONDUIT STUBBED UP INTO THE ACCESSIBLE CEILING SPACE FOR OWNER'S TV CABLES.
- 64 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.

5 KEY NOTES - POS:

- 65 PROVIDE ORANGE ISOLATED GROUND (IG) DUPLEX RECEPTACLE.
- 66 PROVIDE GROUND FAULT PROTECTION FOR THESE DEVICES VIA A GROUND FAULT CIRCUIT BREAKER IF LOCAL CODE DEFINES THIS (A FOOD PREPARATION AREA).
- 67 USE TYPE MC CABLE FOR THE ISOLATED GROUND CIRCUIT #12 HOT, NEUTRAL, GREEN GROUND, STRIPED ISO GRD. EACH 15A HOMERUN SHALL BE DEDICATED TO A CIRCUIT BREAKER VIA DEDICATED CONDUCTORS WITHIN A CABLE ASSEMBLY. ALL MC CABLES SHALL BE RUN OVER-HEAD ABOVE THE CEILING AND RACKED TOGETHER ON J-HOOKS. NO SPLICES IN ANY HOMERUN CABLES FROM FIRST RECEPTACLE TO BREAKER.
- 68 PROVIDE 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.

6 CO2 DETECTOR NOTES:

- 69 CO2 CENTRAL CONTROL UNIT - PROVIDE SINGLE-GANG BACKBOX AT 60" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE.
- 69A CO2 ANNUNCIATOR UNIT - PROVIDE SINGLE-GANG BACKBOX AT 60" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE.
- 69B CO2 SENSOR UNIT - PROVIDE SINGLE-GANG BACKBOX AT 12" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE.
- 69C CO2 POWER SUPPLY - PROVIDE SINGLE-GANG BACKBOX AT 18" BELOW CEILING WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE. PROVIDE A DUPLEX OUTLET, AND CONNECT TO A LOCAL GENERAL OUTLET CIRCUIT. FIELD VERIFY EXACT LOCATION WITH STRONG SYSTEMS 800-500-5566.

8 KEY NOTES - MUSIC:

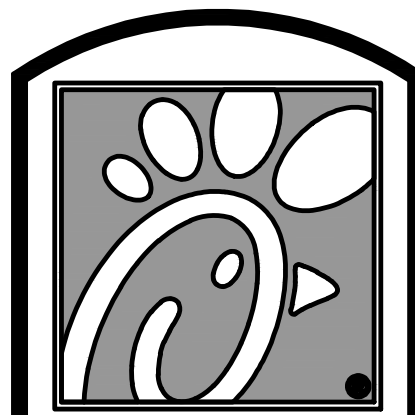
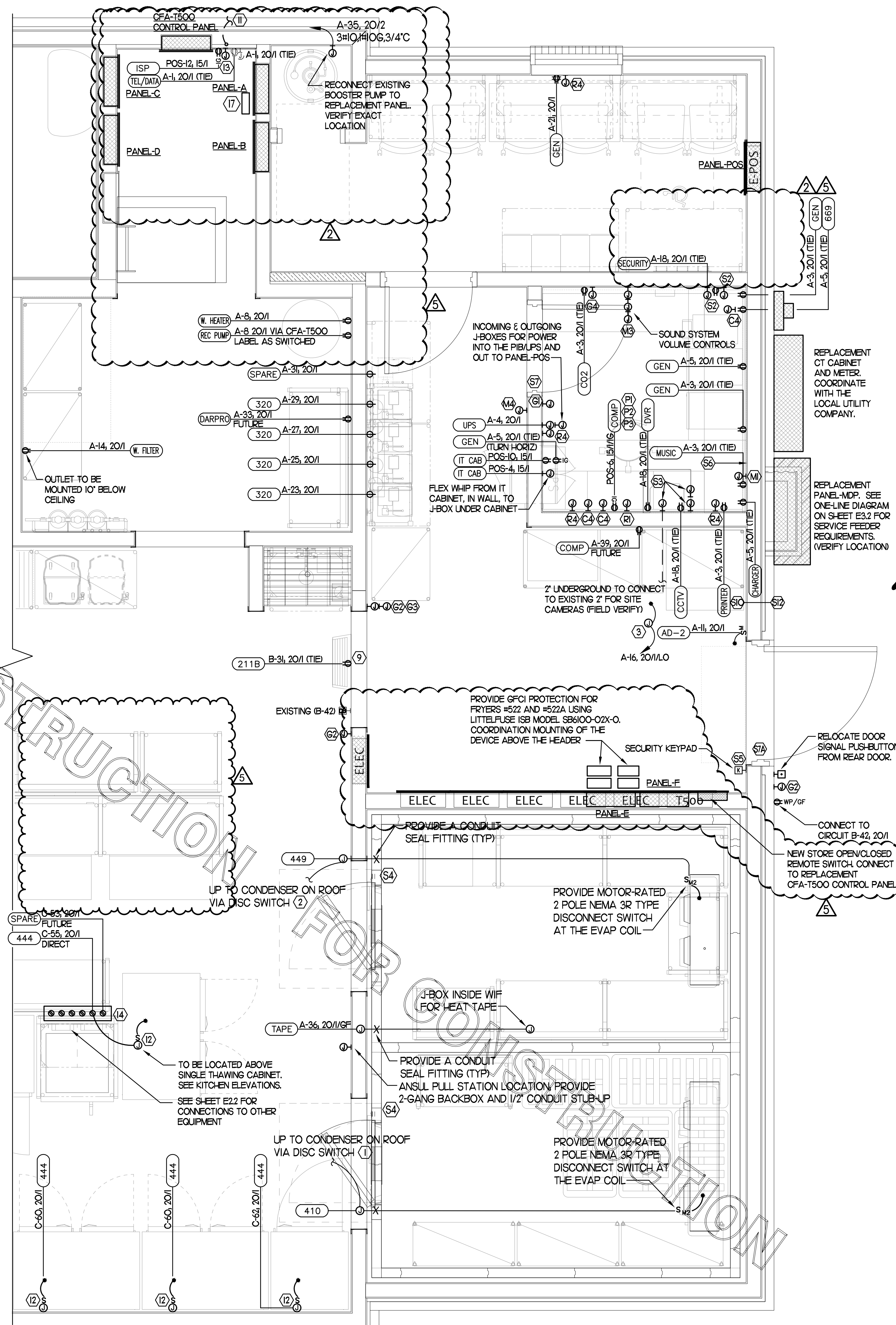
- 68A PROVIDE JUNCTION BOX WITH STAINLESS STEEL COVER PLATE AND 3/4" HOLE IN PLATE WITH GROMMET ON HOLE IN PLATE. EXTEND 3/4" E.C. UP IN WALL TO ABOVE CEILING FOR MUSIC SYSTEM. NOT USED.
- 68B PROVIDE THREE SINGLE GANG EXTRA DEEP J-BOXES STACKED ABOVE EACH OTHER WITH 1/2" CONDUIT FROM EACH TO THE TOP BOX AND A 1" CONDUIT STUBBED UP INTO THE CEILING SPACE FOR MUSIC SYSTEM VOLUME CONTROLS.
- 68C 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.

9 KEY NOTES - POS SYSTEM:

- 68D PROVIDE A 'RETROFIT' DOUBLE-GANG RING (CARLON #SC200RR) FOR OWNER'S DEVICE PLATE WITH A 3" EMPTY CONDUIT AT THE OPENING STUBBED UP INTO THE CEILING SPACE FOR OWNER'S DATA CABLES.
- 68E PROVIDE JUNCTION BOX FOR TERMINATION OF 1" CONDUIT. PROVIDE 1" CONDUIT EXTENDING FROM CEILING AND TERMINATED AT JUNCTION BOX ON THE SERVING AREA SIDE OF THE WALL. COVER PLATE PROVIDED BY OWNER'S POS SYSTEM VENDOR.
- 68F PROVIDE A 2" CONDUIT FROM FACE OF WALL AND EXTEND CONDUIT TO JUNCTION BOX IN CEILING SPACE ABOVE SERVING AREA. CONDUIT SHALL TERMINATE FLUSH WITH FACE OF WALL BELOW COUNTER. CUSTOM STAINLESS STEEL COVER PLATE IN WALL WITH GROMMET ON 2" DIAMETER HOLE AT CONDUIT TERMINATION IN WALL.
- 68G PROVIDE A 'RETROFIT' SINGLE GANG RING (CARLON #SC100RR) FOR OWNER'S DEVICE PLATE WITH A 2" EMPTY CONDUIT AT THE OPENING STUBBED UP INTO THE CEILING SPACE FOR OWNER'S DATA CABLES.
- 68H PROVIDE JUNCTION BOX FOR TERMINATION OF 1" CONDUIT. PROVIDE 1" CONDUIT EXTENDING FROM CEILING AND TERMINATED AT JUNCTION BOX ON THE SERVING AREA SIDE OF THE WALL. POS SYSTEM SUPPLIER WILL PROVIDE COVER PLATE ON BOX.
- 68I 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.
- 68J 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.

1 LARGE SCALE ADDITION POWER PLAN

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



5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:	Mark	Date	By
2	PERMIT REVISIONS	09.22.22	
3	PERMIT REVISIONS	10.28.22	
4	ISSUE FOR CONSTRUCTION	01.31.23	
5	IFP-REVISION	02.17.23	



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STORE #02182
BENCHWOOD

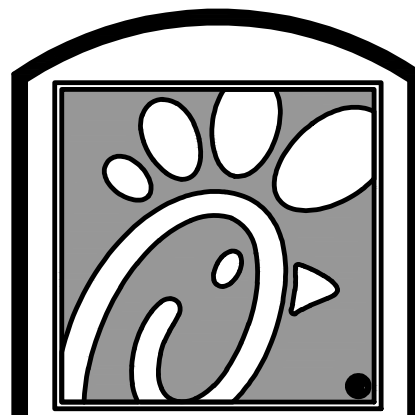
3339 BENCHWOOD RD.
DAYTON, OH 45414

SHEET TITLE
LARGE SCALE
POWER PLAN

VERSION: S06C-R
ISSUE DATE: 6.28.2022

Job No.: 20133.CO.R
Store: #2182
Date: 6.28.22
Drawn By: LK
Checked By: MK

Sheet
E2.3



Chick-fil-A

5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:
Mark Date By
2 09.22.22
PERMIT REVISIONS

Mark Date By
3 10.28.22
PERMIT REVISIONS

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ISSUE FOR CONSTRUCTION

Mark Date By
5 02.17.23
IFP-REVISION



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STORE #02182
BENCHWOOD

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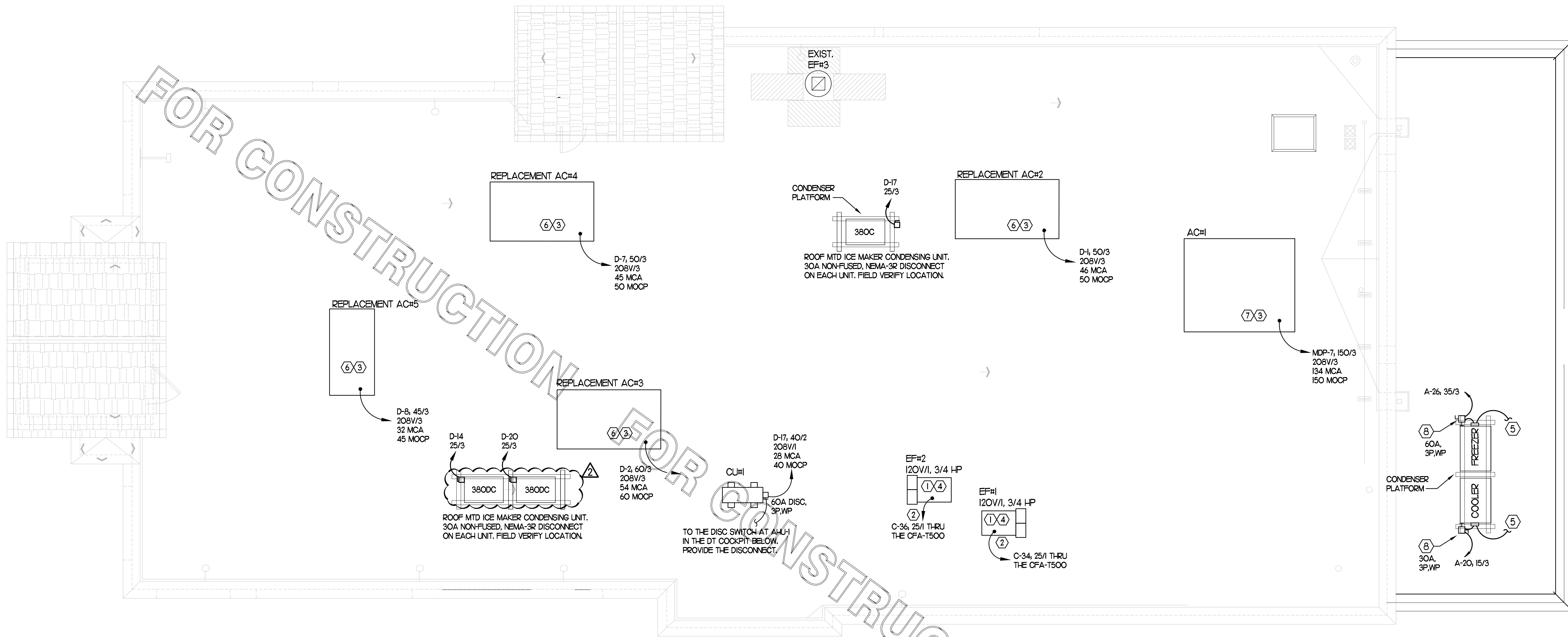
SHEET TITLE
ROOF POWER PLAN

VERSION: S06C-R
ISSUE DATE: 6.28.2022

Job No. : 20133.CD.R
Store : #2182
Date : 6.28.22
Drawn By : LK
Checked By : MK

Sheet

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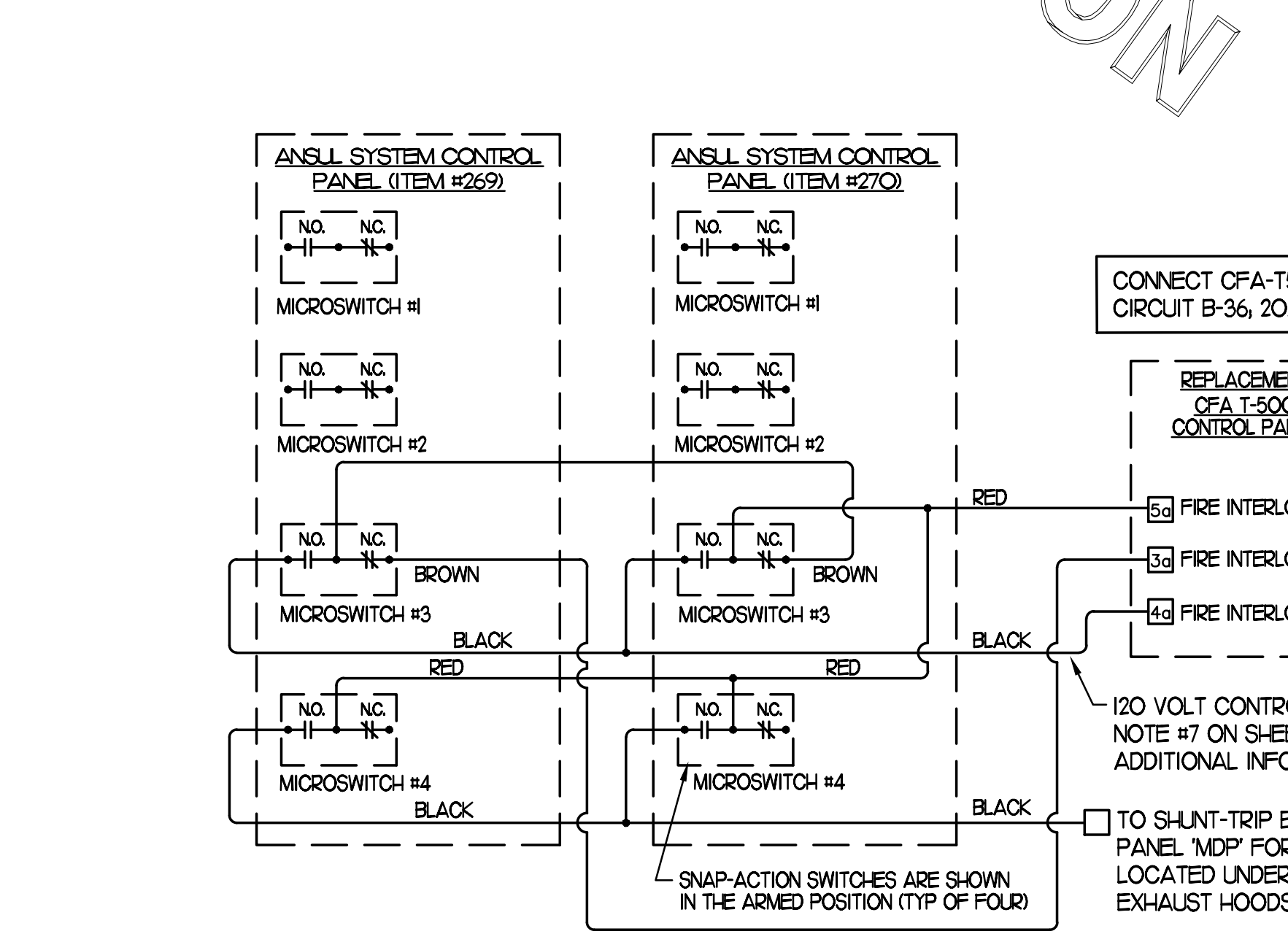


CIR C-1	CONTACTOR-1 30A 4-POLE 120 VOLT COIL (STORE SWITCH ON AND OFF)	KITCHEN LTG RESTROOM LTG & EF-3 DINING LTG PLAY AREA LTG
CIR C-11	CONTACTOR-2 30A 4-POLE 120 VOLT COIL (STORE SWITCH ON AND OFF)	DINING LTG DINING LTG SERVING LTG DT MEN/BOARDS
CIR C-2	CONTACTOR-3 30A 4-POLE 120 VOLT COIL (PC/CELL ON AND SWITCH OFF)	BLDG. SIGNAGE BLDG. SIGNAGE BLDG. SIGNAGE BLDG. SIGNAGE
CIR C-37	CONTACTOR-4 30A 4-POLE 120 VOLT COIL (PC/CELL ON AND SWITCH OFF)	MAIN ID SIGN MAIN ID SIGN MAIN ID SIGN DIRECTIONAL SIGNS
CIR C-22	CONTACTOR-5 30A 4-POLE 120 VOLT COIL (PC/CELL ON AND SWITCH OFF)	EXT. BLDG LIGHTING EXT. BLDG LIGHTING SPARE SPARE
CIR C-21	CONTACTOR-6 30A 4-POLE 120 VOLT COIL (PC/CELL/TC ON & SWITCH OFF)	PARKING LOT LTG PARKING LOT LTG PARKING LOT LTG PARKING LOT LTG
CIR C-29	CONTACTOR-7 30A 4-POLE 120 VOLT COIL (PC/CELL/TC ON & SWITCH OFF)	PARKING LOT LTG PARKING LOT LTG SPARE SPARE
CIR A-8	CONTACTOR-8 30A 4-POLE 120 VOLT COIL (STORE SWITCH ON AND OFF)	RECIRCULATING PUMP SPARE SPARE SPARE
CIR C-12	CONTACTOR-9 30A 4-POLE 120 VOLT COIL (PHOTOCELL ON AND OFF)	SEC/FLAGPOLE LTG SPARE SPARE SPARE
CIR C-34	CONTACTOR-10 30A 4-POLE 120 VOLT COIL (SWITCH ON & OFF, ANSUL ON)	EXHAUST FAN EF-1 EXHAUST FAN EF-2 SPARE SPARE
CIR C-32	CONTACTOR-11 30A 4-POLE 120 VOLT COIL (SWITCH ON & OFF, ANSUL OFF)	CAPTURE JET (CJ) FANS SPARE SPARE SPARE

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) THE STORE OPEN/CLOSED SWITCH SHALL BE IN THE DOOR OF THE CFA-T500 ALONG WITH THE CANOPY CONTROL PANEL'S MASTER ON/OFF SWITCH.

1 ROOF POWER PLAN

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



3 ANSUL SYSTEM PANEL WIRING DIAGRAM

NOT TO SCALE

2 KEYNOTES (APPLY TO THIS SHEET ONLY)

- CONNECT EF#1, EF#2, AND EF#3 THRU THE CFA-500 CONTROL PANEL.
- 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 1/2" DIAMETER LOOP IN THE FLEXIBLE CONDUIT BETWEEN THE ROOF AND THE FAN ELECTRICAL CONNECTION.
- A/C UNIT DISCONNECT IS FURNISHED WITH A/C UNIT AND SHALL BE CONNECTED BY THE CONTRACTOR.
- EXHAUST FAN DISCONNECT IS FURNISHED WITH THE FAN AND SHALL BE CONNECTED BY THE CONTRACTOR.
- CONNECT POWER FROM EACH CONDENSING UNIT'S COMPRESSOR CONTACTOR TO THE EVAPORATOR COIL UNITS JUNCTION BOX BELOW. REFER TO E2.3 FOR LOCATION.
- CONVENIENCE OUTLET SUPPLIED WITH UNIT. PROVIDE POWER THROUGH CIRCUIT B-25.
- CONVENIENCE OUTLET SUPPLIED WITH UNIT AND UNIT POWERED.
- MOUNT DISCONNECT SWITCHES FOR WIC AND WIF CONDENSERS ON UNISTRUT WITH CONDUIT DOWN INTO CEILING SPACE BELOW THRU ROOF PENETRATION DEVICE (NOT THRU ROOF). PROVIDE FUSE SIZE PER MANUFACTURER REQUIREMENTS.

THE INFORMATION USED TO DEVELOP THESE PLANS IS FROM PREVIOUS BUILDING DRAWINGS. WHAT WAS SHOWN ON PLAN AND WHAT WAS ACTUALLY INSTALLED MAY VARY. FIELD VERIFY ALL EXISTING CONDITIONS.

4 CFA-T500 CONTROL PANEL CONNECTION DIAGRAM

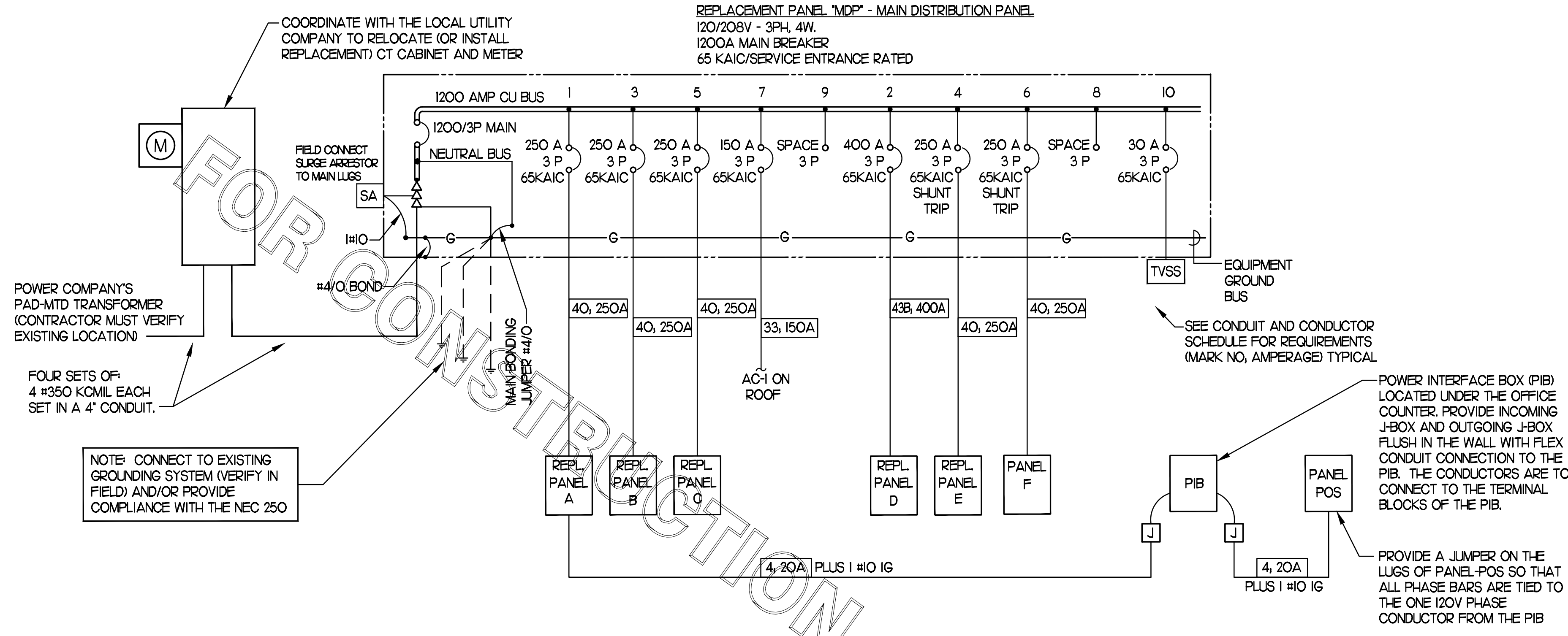
NOT TO SCALE

PANELBOARD SCHEDULE - REPLACEMENT PANEL-A #2182														
PANELBOARD DESCRIPTION				BREAKER OPTIONS				LOADS						
PANELBOARD NAME: A				ARC-FAULT: AF				KVA PHASE A 29.963						
MANUFACTURER / TYPE: S0-D / NQ				GROUND FAULT: GF				KVA PHASE B 30.048						
VOLTS: 208 Y 120				HACR: HA				KVA PHASE C 27.664						
PHASE / WIRE: 3 / 4				HID LTG RATED: HD				AMPS PHASE A 249.69						
MAIN TYPE / CU BUS AMPS: MLO / 250				HIGH MAG LOAD: HM				AMPS PHASE B 250.4						
AIC SERIES RATING: 65/10KA				ISOLATED GROUND: IG				AMPS PHASE C 230.53						
MOUNTING: FLUSH				LOCK-ON: LO				KVA CONNECTED 87.675						
NEMA RATING: 1				SHUNT TRIP: ST				KVA DIVERSIFIED 68.626						
QUANTITY OF SECTIONS: 1				SWITCH RATED: SW				AMPS CONNECTED 243.36						
								AMPS DIVERSIFIED 190.49						
PHI	CIR	LOAD DESCRIPTION	EQ	LOAD TYPE	LOAD KVA	CIR BKR	PH	CIR BKR	LOAD KVA	LOAD TYPE	EQ	LOAD DESCRIPTION	CIR	PHI
Notes	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
	1	TELEPHONE DT VIDEO	R	0.360	20/1	A	20/1	1.650	K	305		TEA BREWER	2	A
	3	OFFICE GEN OUTLETS	R	0.900	20/1	B	20/1	1.490				UPS RECEPTACLE (POS)	4	A
	5	OFFICE GEN OUTLETS	R	0.720	20/1	C	20/1	1.650	K	305		TEA BREWER	6	A
	7	GEN OUTLETS	R	0.720	20/1/GF	A	20/1	0.850	MS			WATER HEATER	8	A
	9	UNHEATED AIR DOOR	AD#3	MS	0.960	20/1	B	20/1/GF	0.720	R		GEN OUTLETS	10	A
	11	UNHEATED AIR DOOR	AD#2	MS	0.960	20/1	C	20/1/GF	0.180	R		PLAY AREA OUTLET	12	A
	13	REPLACEMENT HEATED AIR DOOR	HT	3.765	45/3	B	20/1/LO	0.050	MS			WATER FILTRATION	14	A
	17	REPLACEMENT HEATED AIR DOOR	HT	3.765	45/3	B	20/1/LO	0.540	R			DAMPER KEYS	16	A
	19	U.C. REFRIGERATOR	420	X	0.432	20/1/GF	A	1.258	X			SECURITY SYSTEM	18	A
	21	GEN OUTLETS	R	0.360	20/1	B	15/3/LO	1.258	X	449		WALK-IN COOLER	20	A
	23	CARBONATOR	320	K	0.744	20/1	C	1.140	X				24	A
	25	CARBONATOR	320	K	0.744	20/1	A	1.956	X				26	A
	27	CARBONATOR	320	K	0.744	20/1	B	35/3/LO	2.221	X	410	WALK-IN FREEZER	28	A
	29	CARBONATOR	320	K	0.744	20/1	C	2.221	X				30	A
	31	SPARE CARBONATOR	320	X	0.744	20/1	A	2.000	K				32	A
	33	FUTURE DAR PRO PUMP	MS	0.020	20/1	A	30/2/GF	2.000	K		308	COFFEE MAKER	34	A
	35	BOOSTER PUMP	MS	1.440	20/2	A	20/1/GF	0.500	HT			FREEZER HEAT TAPE	36	B
	37	FUTURE AIR COMPRESSOR	MS	1.920	20/1	B	15/1/GF	0.600	X	3800		INTERIOR ICE MAKER	38	A
	39	FUTURE AIR COMPRESSOR	MS	1.920	20/1	B	15/1/GF	0.600	X	3800		INTERIOR ICE MAKER	40	A
	41	DISHWASHER	363	K	5.880	60/3	C	15/1/GF	0.800	X	380	INTERIOR ICE MAKER	42	A
	43	DISHWASHER	363	K	5.880	60/3	A	20/2/GF	1.250	K	603	EGG COOKER	44	A
	45	SPARE FOR FUTURE ICE DREAM	X	2.280	25/3/GF	A	20/2/GF	1.250	K	603	EGG COOKER	46	A	
	47	SPARE FOR FUTURE ICE DREAM	X	2.280	25/3/GF	A	20/2/GF	1.250	K	603	SPARE FOR EGG COOKER	50	A	
	49	SPARE FOR FUTURE ICE DREAM	X	2.280	25/3/GF	A	20/2/GF	1.250	K	603	REFRIGERATED EQ. STAND	54	A	
	51	SPARE FOR FUTURE ICE DREAM	X	2.280	25/3/GF	A	20/2/GF	1.250	K	603	REFRIGERATED EQ. STAND	58	A	
	53	SPARE FOR FUTURE ICE DREAM	X	2.280	25/3/GF	A	20/2/GF	1.250	K	603	REFRIGERATED EQ. STAND	62	A	
	55	SPARE FOR FUTURE ICE DREAM	X	2.280	25/3/GF	A	20/2/GF	1.250	K	603	REFRIGERATED EQ. STAND	66	A	
	57	SPARE										SPARE	68	A
	59	SPARE										SPARE	70	A
	61	SPARE										SPARE	72	A
	63	SPARE										SPARE	74	A
	65	SPARE										SPARE	76	A
	67	SPARE										SPARE	78	A
	69	SPARE										SPARE	80	A
	71	SPARE										SPARE	82	A

PANELBOARD SCHEDULE - REPLACEMENT PANEL-D #2182														
PANELBOARD DESCRIPTION				BREAKER OPTIONS				LOADS						
PANELBOARD NAME: D				ARC-FAULT: AF				KVA PHASE A 32.284						
MANUFACTURER / TYPE: S0-D / NQ				GROUND FAULT: GF				KVA PHASE B 29.264						
VOLTS: 208 Y 120				HACR: HA				KVA PHASE C 29.352						
PHASE / WIRE: 3 / 4				HID LTG RATED: HD				AMPS PHASE A 268.87						
MAIN TYPE / CU BUS AMPS: MLO / 400				HIGH MAG LOAD: HM				AMPS PHASE B 243.87						
AIC SERIES RATING: 65K				ISOLATED GROUND: IG				AMPS PHASE C 244.8						
MOUNTING: FLUSH				LOCK-ON: LO				KVA CONNECTED 90.88						
NEMA RATING: 1				SHUNT TRIP: ST				KVA DIVERSIFIED 85.512						
QUANTITY OF SECTIONS: 1				SWITCH RATED: SW				AMPS CONNECTED 237.36						
								AMPS DIVERSIFIED 237.36						
PHI	CIR	LOAD DESCRIPTION	EQ	LOAD TYPE	LOAD KVA	CIR BKR	PH	CIR BKR	LOAD KVA	LOAD TYPE	EQ	LOAD DESCRIPTION	CIR	PHI
Notes	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
	1	REPLACEMENT AC-2 (6.5 TON)	AC-2	HV	5.520	50/3	A	60/3	6.480	HV	AC-3	REPLACEMENT AC-3 (10 TON)	2	A
	3	REPLACEMENT AC-2 (6.5 TON)	AC-2	HV	5.520	50/3	B	60/3	6.480	HV	AC-3	REPLACEMENT AC-3 (10 TON)	4	A
	5	REPLACEMENT AC-2 (6.5 TON)	AC-2	HV	5.520	50/3	C	60/3	6.480	HV	AC-3	REPLACEMENT AC-3 (10 TON)	6	A
	7	REPLACEMENT AC-4 (7.5 TON)	AC-4	HV	5.400	50/3	B	45/3	3.840	HV	AC-5	REPLACEMENT AC-5 (5 TON)	8	A
	9	REPLACEMENT AC-4 (7.5 TON)	AC-4	HV	5.400	50/3	B	45/3	3.840	HV	AC-5	REPLACEMENT AC-5 (5 TON)	10	A
	11	REPLACEMENT AC-4 (7.5 TON)	AC-4	HV	5.400	50/3	B	45/3	3.840	HV	AC-5	REPLACEMENT AC-5 (5 TON)	12	A
	13	AHU-1 & CU-1		HV	2.912	40/2	A	25/3	1.704	X	3800	ROOF ICE CONDENSER	14	A
	15	AHU-1 & CU-1		HV	2.912	40/2	B	25/3	1.704	X	3800	ROOF ICE CONDENSER	16	A
	17	AHU-1 & CU-1		HV	2.912	40/2	C	25/3	1.704	X	3800	ROOF ICE CONDENSER	18	A
	19	ROOF ICE CONDENSER	3800	X	1.704	25/3	A	1.704	X			ROOF ICE CONDENSER	20	A
	21	ROOF ICE CONDENSER	3800	X	1.704	25/3	B	25/3	1.704	X	3800	ROOF ICE CONDENSER	22	A
	23	6 KW ELECTRIC HEATER	HT	3.000	40/2	A	20/1					SPARE	24	A
	25	6 KW ELECTRIC HEATER	HT	3.000	40/2	B	20/1					SPARE	26	A
	27	SPARE										SPARE	28	A
	29	SPARE										SPARE	30	A
	31	SPARE										SPARE	32	A
	33	SPARE										SPARE	34	A
	35	SPARE										SPARE	36	A
	37	SPARE										SPARE	38	A
	39	SPARE										SPARE	40	A
	41	SPARE										SPARE	42	A

PANELBOARD SCHEDULE - REPLACEMENT PANEL-E #2182														
PANELBOARD DESCRIPTION				BREAKER OPTIONS				LOADS						
PANELBOARD NAME: E				ARC-FAULT: AF				KVA PHASE A 36.732						
MANUFACTURER / TYPE: S0-D / NQ				GROUND FAULT: GF				KVA PHASE B 37.68						
VOLTS: 208 Y 120				HACR: HA				KVA PHASE C 36.612						
PHASE / WIRE: 3 / 4				HID LTG RATED: HD				AMPS PHASE A 306.1						
MAIN TYPE / CU BUS AMPS: MLO / 250 AMP				HIGH MAG LOAD: HM				AMPS PHASE B 314						
AIC SERIES RATING: 65K/10K				ISOLATED GROUND: IG				AMPS PHASE C 305.1						
MOUNTING: FLUSH				LOCK-ON: LO				KVA CONNECTED 111.024						
NEMA RATING: 1				SHUNT TRIP: ST				KVA DIVERSIFIED 72.166						
QUANTITY OF SECTIONS: 1				SWITCH RATED: SW				AMPS CONNECTED 308.17						
								AMPS DIVERSIFIED 200.31						
PHI	CIR	LOAD DESCRIPTION	EQ	LOAD TYPE	LOAD KVA	CIR BKR	PH	CIR BKR	LOAD KVA	LOAD TYPE	EQ	LOAD DESCRIPTION	CIR	PHI
Notes	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
	1	COUNTER POS STATIONS	MS	0.130	15/1	B	15/1/GF	0.200	MS			MLOP STATION	2	A
	3	COUNTER POS STATIONS	MS	0.130	15/1	B	15/1	0.130	MS			IF CABINET	4	A
	5	DT POS STATION	MS	0.240	15/1	B	15/1/GF	0.170	MS			OFFICE RECEPTACLE	6	A
	7	PASS-THRU MONITORS	MS	0.110	15/1/GF	B	15/1	0.130	MS			MT TABLE MONITORS	8	A
	9	SPACE										IF CABINET	10	A
	11	SPACE										ISP - FIBER INTERNET	12	A
	13	SPACE										BACKFED MAIN BKR	14	A
	15-23	SPACE										SPACE	16-24	A

PANELBOARD SCHEDULE - REPLACEMENT PANEL-POS #2182														
PANELBOARD DESCRIPTION				BREAKER OPTIONS				LOADS						
PANELBOARD NAME: POS				ARC-FAULT: AF				KVA PHASE B 1.49						
MANUFACTURER / TYPE: S0-D / NQ				GROUND FAULT: GF				KVA PHASE B 1.49						
VOLTS: 120 Y 120				HACR: HA				KVA PHASE B 1.49						
PHASE / WIRE: 1 / 4				HID LTG RATED: HD				AMPS PHASE B 12.417						
MAIN TYPE / CU BUS AMPS: MLO / 100				HIGH MAG LOAD: HM				AMPS PHASE B 12.417						
AIC SERIES RATING: 10K				ISOLATED GROUND: IG				KVA CONNECTED 1.49						
MOUNTING: FLUSH				LOCK-ON: LO				KVA DIVERSIFIED 1.863						
NEMA RATING: 1				SHUNT TRIP: ST				KVA CONNECTED 12.417						
QUANTITY OF SECTIONS: 1				SWITCH RATED: SW				AMPS DIVERSIFIED 15.521						
								AMPS DIVERSIFIED 15.521						
PHI	CIR	LOAD DESCRIPTION	EQ	LOAD TYPE	LOAD KVA	CIR BKR	PH	CIR BKR	LOAD KVA	LOAD TYPE	EQ	LOAD DESCRIPTION	CIR	PHI
Notes	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
	1	COUNTER POS STATIONS	MS	0.130	15/1	B	15/1/GF	0.200	MS			MLOP STATION	2	A
	3	COUNTER POS STATIONS	MS	0.130	15/1	B	15/1	0.130	MS			IF CABINET	4	A
	5	DT POS STATION	MS	0.240	15/1	B	15/1/GF	0.170	MS			OFFICE RECEPTACLE	6	A
	7	PASS-THRU MONITORS	MS	0.110	15/1/GF	B	15/1	0.130	MS			MT TABLE MONITORS	8	A
	9	SPACE										IF CABINET	10	A
	11	SPACE										ISP - FIBER INTERNET	12	A
	13	SPACE										BACKFED MAIN BKR	14	A
	15-23	SPACE												



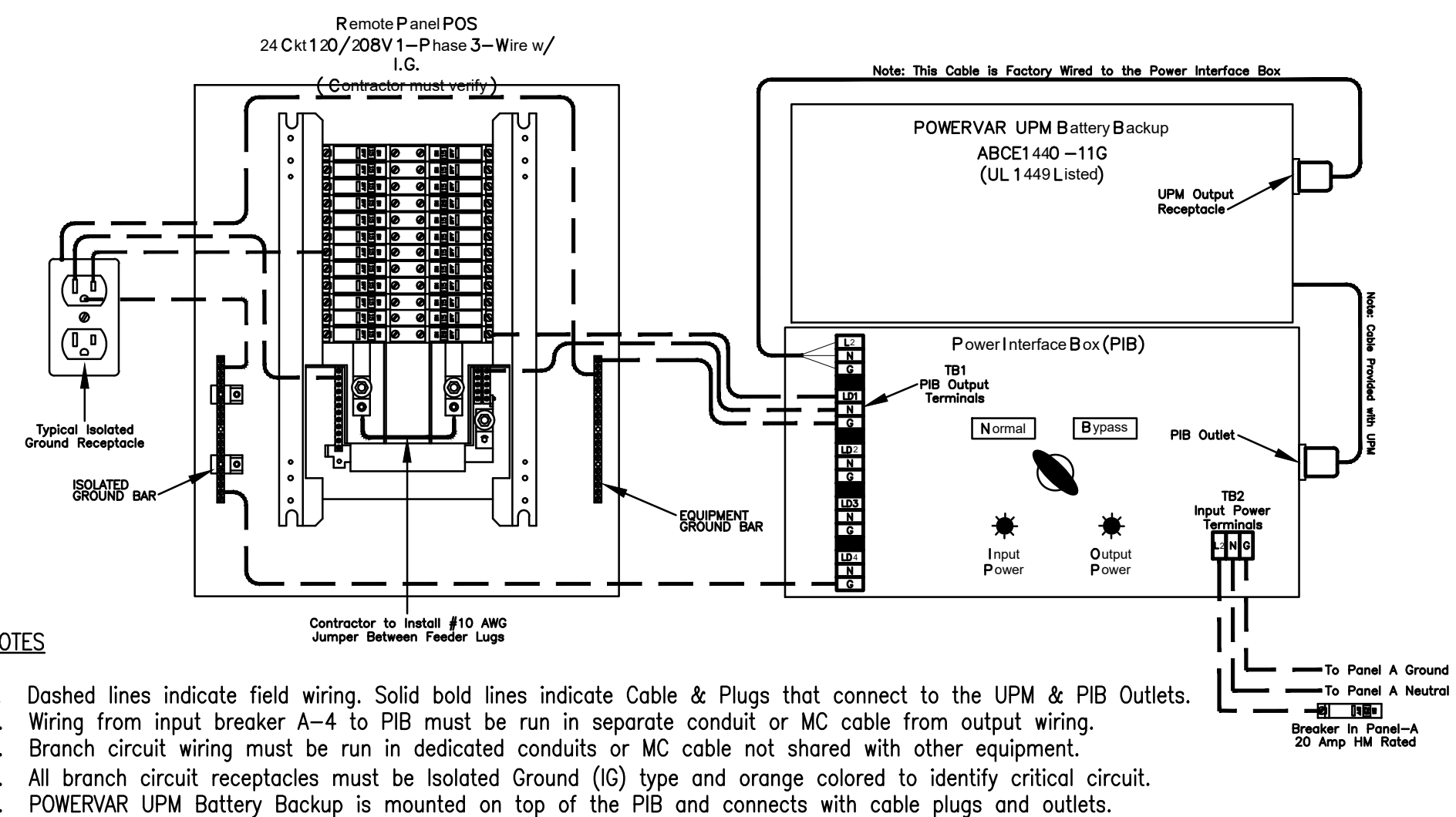
1 SINGLE LINE DIAGRAM
NO SCALE

PANELBOARD SCHEDULE - REPLACEMENT PANEL-MDP #2182													
PANELBOARD DESCRIPTION				BREAKER OPTIONS				LOADS					
PANELBOARD NAME:		MDP		ARC-FAULT:		AF		KVA PHASE A		199.9			
MANUFACTURER / TYPE:		SQ-D / ILINE		GROUND FAULT:		GF		KVA PHASE B		200.37			
VOLTS:		208 Y 120		HACR:		HA		KVA PHASE C		193.04			
PHASE / WIRE:		3 / 4		HID LTG RATED:		HD		AMPS PHASE A		1665.9			
MAIN TYPE / CU BUS AMPS:		MCB / 1200A/3P		HIGH MAG LOAD:		HM		AMPS PHASE B		1669.8			
AIC SERIES RATING:		65K		ISOLATED GROUND:		IG		AMPS PHASE C		1608.7			
MOUNTING:		SURFACE		LOCK-ON:		LO		KVA CONNECTED		593.32			
NEMA RATING:		3R		SHUNT TRIP:		ST		KVA DIVERSIFIED		468.69			
QUANTITY OF SECTIONS:		1		SWITCH RATED:		SW		AMPS CONNECTED		1646.9			
								AMPS DIVERSIFIED		1301			
PHI	CIR NO.	LOAD DESCRIPTION	EQ NO.	LOAD TYPE	LOAD KVA	CIR BKR *A/P/O	PH	CIR BKR *A/P/O	LOAD TYPE	EQ NO.	LOAD DESCRIPTION	CIR NO.	PHI
	1	REPLACEMENT PANEL-A		Δ	29.96 30.05 27.66	250/3	A B C	400/3			REPLACEMENT PANEL-D	2	
	3	REPLACEMENT PANEL-B			21.74 26.79 21.10	250/3	A B C	250/3/ST			REPLACEMENT PANEL-E (INTERLOCK ST WITH ANSUL SYSTEM)	4	
	5	REPLACEMENT PANEL-C			30.23 26.67 29.47	250/3	A B C	250/3/ST			PANEL-F (INTERLOCK ST WITH ANSUL SYSTEM)	6	
	7	REPLACEMENT AC-1		HV	16.08 16.08 16.08	150/3	A B C				SPACE	8	
	9	SPACE				3 POLE	A B C	30/3			TVSS	10	

*A/P/O INDICATES CIRCUIT BREAKER AMPACITY/NO. POLES/OPTIONS WITH OPTIONS AS NECESSARY

PANELBOARD LOAD SUMMARY				
LOAD DESCRIPTION	TYPE	(KVA) X	DEMAND FACTOR	DIVERSIFIED KVA
LIGHTING	L	6.469	1.25	8.086
EXTERIOR LIGHTING & SIGNAGE	EL	26.484	1.25	33.105
RECEPTACLES	R	11.340	PER(>10KVA@50%)	10.670
MISCELLANEOUS	MS	17.170	1.25	21.463
HVAC	HV	117.784	1	117.784
HEAT	HT	17.795	1	17.795
SINGLE PHASE MOTOR	M1	3.672	1.25	4.590
KITCHEN EQUIPMENT	K	314.056	0.65	204.136
KITCHEN REFRIG EQUIPMENT	X	78.550	0.65	51.058
TOTAL		593.320		468.687

ELECTRICAL LOAD SUMMARY - Store #2182	
(NOT ALL ELECTRIC RESTAURANT)	
THE FOLLOWING IS BASED ON NEC 220.88	
LOAD DESCRIPTION	KVA
LIGHTING	6.47
EXTERIOR LTG AND SIGNAGE	26.48
RECEPTACLES	11.34
MISCELLANEOUS	17.17
AIR CONDITIONING	117.78
ELECTRIC HEAT	17.80
SINGLE PHASE MOTORS	3.67
KITCHEN EQUIPMENT	314.06
KITCHEN REFRIGERATION EQUIPMENT	78.55
TOTAL CONNECTED KVA	593.32
IF TOTAL IS 0-200 KVA, THEN TOTAL LOAD 100%	0.00
IF TOTAL IS 201-325 KVA, THEN LOAD OVER 200 AT 50% + 200	0.00
IF TOTAL LOAD IS 326-800 KVA, THEN LOAD OVER 325 AT 45% + 262.5	383.24
IF TOTAL LOAD IS OVER 800 KVA, THEN LOAD OVER 800 AT 20% + 476.3	0.00
DIVERSIFIED AMPS AT 208 VOLT	1064.57



2 POWERVAR LAPC with PIB and Panel POS Wiring Diagram
NO SCALE

Mark No.	OCP Device	Conductors		Conductors				Raceway Size (nominal inches)									
		Total Ampacity	60d C	75d C	Phase & Neutral		Min Eq Grd	No. Sets	Phase, Neutral & Equip Grd			With Isolated Ground					
					Qty	Size			EMT	IMC	RIGID	PVC	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	50/1	55	-	-	2	6	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75	0.75
14	50/2	55	-	-	3	6	THHN	1	10	One	0.75	0.75	0.75	0.75	1.00	1.00	1.00
15	50/3	55	-	-	4	6	THHN	1	10	One	1.00	1.00	1.00	1.00	1.00	1.00	1.00
16	60/1	70	-	-	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.00	1.25
17	60/2	70	-	-	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25	1.25
18	60/3	70	-	-	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
19	70/1	70	-	-	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.00	1.25
20	70/2	70	-	-	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25	1.25
21	70/3	70	-	-	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
22	80/2	85	-	-	3	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25	1.25
23	80/3	85	-	-	4	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
24	90/2	95	-	-	3	2	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
25	90/3	95	-	-	4	2	THW	1	8	One	1.50	1.25	1.50	1.50	1.50	1.50	1.50
26	100/2	110	-	-	3	1	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00	2.00
27	100/3	110	-	-	4	1	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
28	110/2	-	115	-	3	2	THW	1	6	One	1.25	1.25	1.25	1.25	1.50	1.25	1.50
29	110/3	-	115	-	4	2	THW	1	6	One	1.50	1.25	1.50	1.50	1.50	1.50	1.50
30	125/2	-	130	-	3	1	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00	2.00
31	125/3	-	130	-	4	1	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
32	150/2	-	150	-	3	1/0	THW	1	6	One	2.00	1.50	2.00	2.00	2.00	2.00	2.00
33	150/3	-	150	-	4	1/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
34	175/2	-	175	-	3	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00	2.00
35	175/3	-	175	-	4	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50	2.50
36	200/2	-	200	-	3	3/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50	2.50
37	200/3	-	200	-	4	3/0	THW	1	6	One	2.50	2.50	2.50	2.50	2.50	2.50	2.50
38	225/2	-	230	-	3	4/0	THW	1	4	One	2.50	2.00	2.50	2.50	2.50	2.50	2.50
39	225/3	-	230	-	4	4/0	THW	1	4	One	2.50	2.50	2.50	2.50	2.50	3.00	3.00
40	250/3	-	255	-	4	250	THW	1	4	One	2.50	3.00	3.00	3.00	3.00	3.00	3.00
41A	300/3	-	285	-	4	300	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3.00	3.00
41B	300/3	-	310	-	4	350	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3.00	3.00
42A	350/3	-	335	-	4	400	THW	1	4	One	3.00	3.50	3.50	3.50	3.50	3.50	3.50
42B	350/3	-	380	-	4	500	THW	1	4	One	3.50	3.50	3.50	3.50	3.50	3.50	3.50
43A	400/3	-	380	-	4	500	THW	1	3	One	3.50	3.50	3.50	3.50	3.50	3.50	3.50
43B	400/3	-	400	-	4	3/0	THW	2	3	Two	2.50	2.50	2.50	2.50	2.50	2.50	2.50
44A	600/3	-	570	-	4	300	THW	2	1	Two	3.00	3.00	3.00	3.00	3.00	3.00	3.00
44B	600/3	-	620	-	4	350	THW	2	1	Two	3.00	3.00	3.00	3.00	3.00	3.00	3.00
45A	800/3	-	760	-	4	500	THW	2	1/0	Two	3.50	3.50	3.50	3.50	3.50	3.50	3.50
45B	800/3	-	820	-	4	600	THW	2	1/0	Two	4.00	4.00	4.00	4.00	4.00	4.00	4.00
46	1000/3	-	1005	-	4	400	THW	3	2/0	Three	3.50	3.50	3.50	3.50	3.50	3.50	3.50
47	1200/3	-	1240	-	4	350	THW	4	3/0	Four	3.50	3.50	3.50	3.50	3.50	3.50	4.00
48	1600/3	-	1675	-	4	400	THW	5	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) 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.

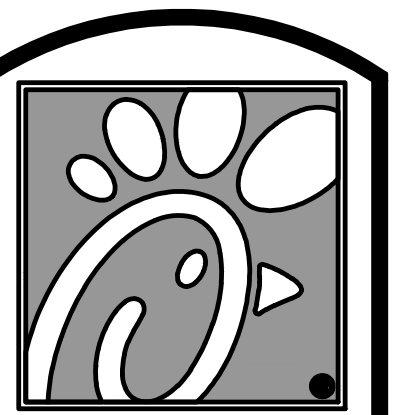
NEC Tables 4, 5, and Appendix C is used for the basis of the conduit sizes. Table C1 for EMT, Table C4 for IMC, Table C8 for Rigid, and Table C10 for PVC (Sch 40).

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 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.



5200 Buffington Rd.
Atlanta Georgia,
30349-2998

Revisions:
Mark Date By
2 09.2

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 include 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 diagrammatic 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

- 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.
- 1.03 INTERMEDIATE METAL CONDUIT (IMC)
 - A. Use Intermediate Metal Conduit (IMC) where drawings call for conduit to be:
 1. Installed for panelboard feeders.
 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.

- 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.

- 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.
 - E. Provide 1/4-inch nylon pull rope in all primary power and incoming telephone service entrance conduits.
- F. 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 ferrolloy. 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.

PART 2 - EXECUTION

- 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.

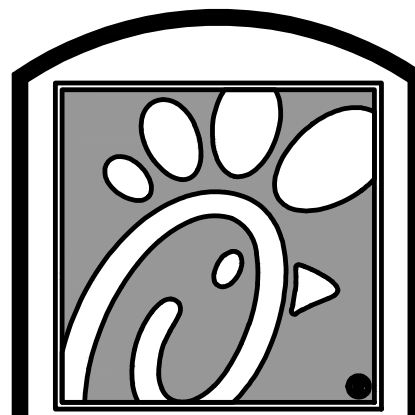
SECTION C16123
GROUNDING AND BONDING

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 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.



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SHEET TITLE
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SPECIFICATIONS

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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. Shall be purchased from the National Accounts Vendor indicated on the plans.
B. Ratings: 20 amps, 120/277 volts a.c. or as identified on drawings.
C. Devices: (Cooper/Arrow Hart catalog numbers are listed unless noted otherwise):
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)
1.02 RECEPTACLES
A. Shall be purchased from the National Accounts Vendor indicated on the plans.
B. Devices: (Cooper/Arrow Hart catalog numbers are listed unless otherwise noted):
1. Specification grade devices (grey device color in Kitchen, brown device color in Dining, and orange for IG type) to be 20 amp, 125 volts, a.c. receptacles:
Single (simplex) device: #1877-GY (Kitchen) or #1877-B (Dining)
Duplex device: #CR20-GY (Kitchen) or #CR20-B (Dining)
Tamper Resistant duplex: #TRCR20-B (Vestibules & Play Area)
Tamper Resistant USB Charger duplex: #TR7756-B (Dining)
GF (ground-fault circuit interrupter) duplex device: #VGF20-GY (Kitchen) or #VGF20-B (Dining)
IG (isolated ground) duplex device: #IG5362-RN (orange face)
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 Cooper/Arrow Hart, or approved equal, smooth satin stainless steel 302-SS series for switches and receptacles in the Kitchen areas. All other areas shall be brown Nylon plastic.
B. Provide blank plates on all outlet boxes for future outlets, or outlets without devices. Plate style shall match device plates.
C. 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 #WU-1.
D. Where devices installed in exposed boxes or conduit fittings; provide properly designed plates and covers equal to Arrow Hart RS-Series exposed work covers.
E. Install galvanized steel plates on outlet boxes and junction boxes in unfinished areas, above accessible ceilings, and on surface mounted boxes.

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 (Atlantic and Southeast Regions): from Accu-Serv, Bob Harpring (502)961-0096
B. Square-D (West, Southwest, Midwest, and Northeast 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 or tin plated aluminum.
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. 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. General Electric.
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. Accu-Serv Lighting - Atlantic region and Southeast region. Contact at Accu-Serv: Bob Harpring at 877-707-7378, fax - 502-961-0357, email - bharpring@accu-serv.com
2. Villa Lighting - Midwest region, Northeast region, Southwest region, and West region. Contact at Villa Lighting: Dave Christanell at 800-325-0963, fax- 314-531-8720, email - dave.christanell@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.

PART 2 - PRODUCTS

- 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 compatible 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, General Electric, 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 Busman '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 Rd.
Atlanta Georgia,
30349-2998

Revisions:
Mark Date By

1 08.09.22
PERMIT ISSUE

2 09.22.22
PERMIT REVISIONS

3 10.28.22
PERMIT REVISIONS

4 01.31.23
ISSUE FOR CONSTRUCTION



Kurzynske & Associates
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2900 Lebanon Pike, Ste. 201
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Telephone: (615) 255-5203
Fax: (615) 255-5207
Email: mail@kurzynske.com

STORE #02182
BENCHWOOD

3339 BENCHWOOD RD.
DAYTON, OH 45414

SHEET TITLE
ELECTRICAL
SPECIFICATIONS

VERSION: S06C-R
ISSUE DATE: 6.28.2022

Job No. : 20133.CD.R
Store : #2182
Date : 6.28.22
Drawn By :
Checked By :

Sheet
E4.2

FOR CONSTRUCTION

COMcheck Software Version 4.1.5.1
Interior Lighting Compliance Certificate

Project Information
 Energy Code: 2012 IECC
 Project Title: Chick-fil-A #2182
 Project Type: Addition

Construction Site: 3339 Benchwood Rd. Dayton, OH 45414
 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 (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-Kitchen & DT Serving (Common Space Types:Food preparation)	1962	1.20	2334
2-Dining (Common Space Types:Family dining area)	1851	1.40	2591
3-Toilets (Common Space Types:Restroom)	205	1.00	205
4-Office (Common Space Types:Office - Enclosed)	151	1.10	166
5-Storage (Common Space Types:Storage)	323	0.80	258
Total Allowed Watts =			5455

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-Kitchen & DT Serving (Common Space Types:Food preparation)				
LED: AA/E: LED Troffer: Other:	1	20	59	1188
LED: F: LED Egg Light: Other:	1	4	12	48
LED: S/S/E: LED Troffer: Other:	1	2	49	98
Linear Fluorescent: J1: Cove light strip: 48" T8 25W (Super T8): Electronic:	1	7	28	196
2-Dining (Common Space Types:Family dining area)				
LED: D3/D/E: LED Downlight: Other:	1	2	21	42
LED: S/S/E: LED Troffer: Other:	1	23	49	1132
LED: U: Dining Pendant: LED A Lamp 7W:	1	9	8	68
LED: D/D/E: LED Troffer: Other:	1	2	49	98
3-Toilets (Common Space Types:Restroom)				
LED: N: Toilet Wall Sconce: LED A Lamp 11W:	1	2	11	22
LED: D/D/E: LED Troffer: Other:	1	4	49	197
4-Office (Common Space Types:Office - Enclosed)				
LED: AA/E: LED Troffer: Other:	1	3	59	178
5-Storage (Common Space Types:Storage)				
LED: AA/E: LED Troffer: Other:	1	3	59	178
Total Proposed Watts =				3445

Project Title: Chick-fil-A #2182 Report date: 06/28/22
 Data filename: Z:\Shared\02 Prototypes\Chick-fil-A\2020\Remodels\20133.CD.R - Dayton, OH (Benchwood) - Page 1 of 8
 2182\ComCheck\CFA #2182 2012 IECC Comcheck.cck

Interior Lighting PASSES: Design 37% 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 2012 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

Project Title: Chick-fil-A #2182 Report date: 06/28/22
 Data filename: Z:\Shared\02 Prototypes\Chick-fil-A\2020\Remodels\20133.CD.R - Dayton, OH (Benchwood) - Page 2 of 8
 2182\ComCheck\CFA #2182 2012 IECC Comcheck.cck

COMcheck Software Version 4.1.5.1
Exterior Lighting Compliance Certificate

Project Information
 Energy Code: 2012 IECC
 Project Title: Chick-fil-A #2182
 Project Type: Addition
 Exterior Lighting Zone: 2 (Neighborhood business district)

Construction Site: 3339 Benchwood Rd. Dayton, OH 45414
 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)
Free standing/attached sales canopy	1699 ft ²	0.6	Yes	1019
Illuminated area of facade wall or surface	2100 ft ²	0.1	No	210
Total Tradable Watts (a) =				1019
Total Allowed Watts =				1229
Total Allowed Supplemental Watts (b) =				600

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)
Free standing/attached sales canopy (1699 ft²): Tradable Wattage				
LED: Canopy Ltg: Integral Light: Other:	1	7	74	518
Illuminated area of facade wall or surface (2100 ft²): Non-tradable Wattage				
LED: OJ: Wall Sconce: Other:	1	22	25	550
LED: OK: Security Wall Pack: Other:	1	1	13	13
Total Tradable Proposed Watts =				518

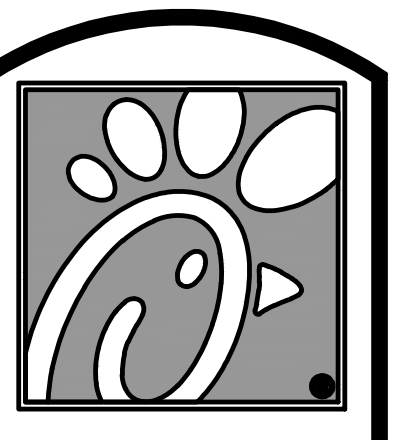
Exterior Lighting PASSES: Design 59% better than code

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 2012 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

Project Title: Chick-fil-A #2182 Report date: 06/28/22
 Data filename: Z:\Shared\02 Prototypes\Chick-fil-A\2020\Remodels\20133.CD.R - Dayton, OH (Benchwood) - Page 3 of 8
 2182\ComCheck\CFA #2182 2012 IECC Comcheck.cck

FOR CONSTRUCTION



5200 Buffington Rd.
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 1 08.09.22
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STORE #02182
 BENCHWOOD

3339 BENCHWOOD RD.
 DAYTON, OH 45414

SHEET TITLE
 LIGHTING COMCHECK

VERSION: S06C-R
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Sheet
E5.1