

PLUMBING CONTRACTOR SHALL CAP AND ABANDON ALL EXISTING WATER PIPING LOCATED BELOW SLAB AND WITHIN WALLS. HERE 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 P.I. 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 P.I. 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 DEMOLISH EXISTING FLOOR DRAIN. CAP EXISTING WASTE LINE FOR FUTURE INSTALLATION OF NEW FLOOR DRAIN IN SAME LOCATION.

**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.

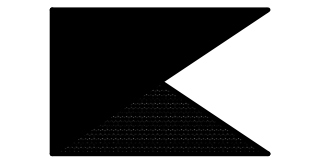
**PIPING LEGEND**

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 LINE(S) IN WALL TO BE DEMO	∞

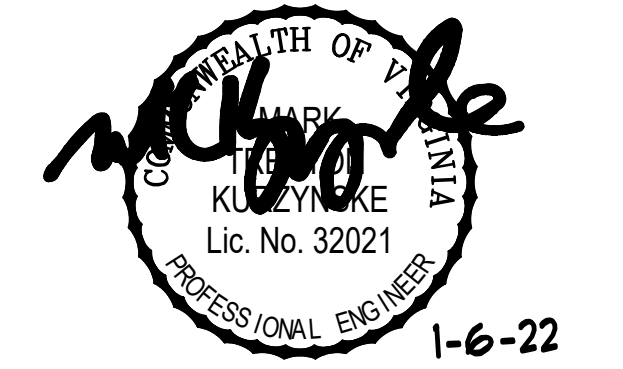


**Chick-fil-A**

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



**Kurzynske & Associates**  
 CONSULTING ENGINEERS  
 2706 Lebanon Pike - Suite One  
 Nashville, Tennessee 37214  
 Telephone: (615) 255-8203



1-6-22

**CHICK-FIL-A**  
 Rutherford Crossing  
 112 Market Street  
 Winchester, VA 22603

**FSR#02288**

BUILDING TYPE / SIZE: S06-C  
 RELEASE: v12.20

**REVISION SCHEDULE**

NO.	DATE	DESCRIPTION
2	11/08/21	Plan Review Cmnts
4	12/17/21	Owner Revisions

CONSULTANT PROJECT # 21079.HF.R  
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 SHEET BELOW SLAB DEMO PLAN  
 SHEET NUMBER

PERMIT

**P0.1**

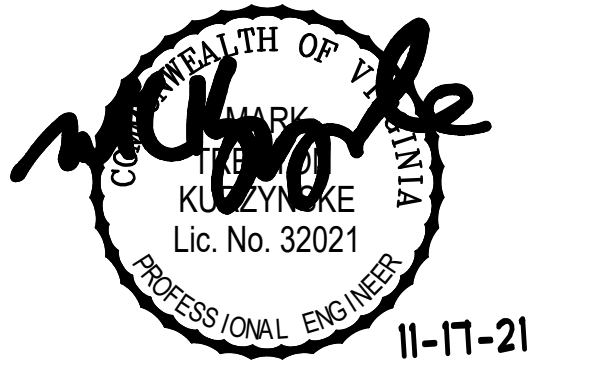


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Atlanta, Georgia 30349



Kurzynske  
& Associates  
CONSULTING ENGINEERS  
2706 Lebanon Pike - Suite One  
Nashville, Tennessee 37214  
Telephone: (615) 255-8203



11-17-21

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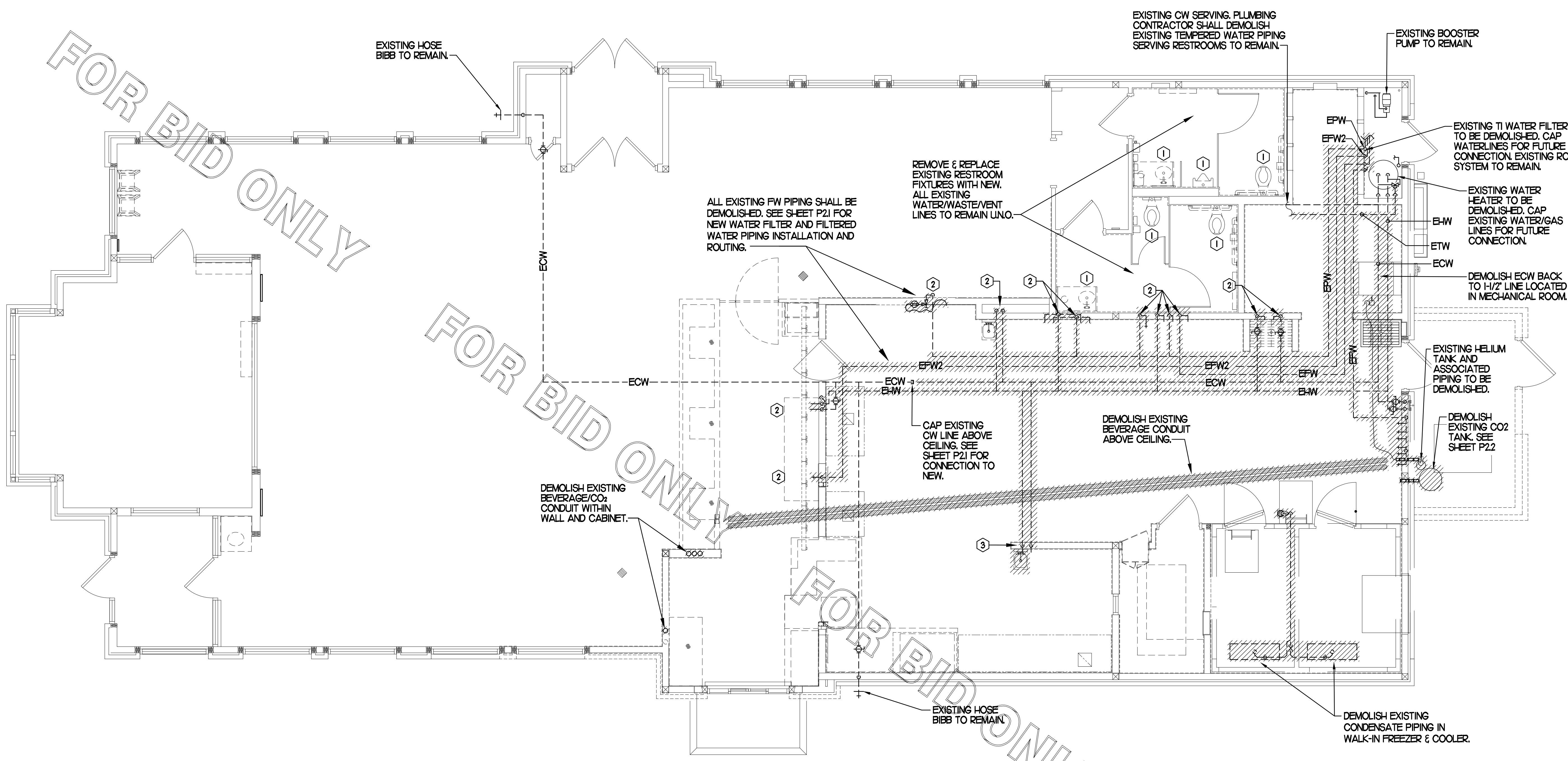
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SHEET  
ABOVE SLAB  
DEMO PLAN  
SHEET NUMBER

**P0.2**



**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 (F)	---4"---
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	oo

**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.
- CAP EXISTING WATER LINE(S) ABOVE CEILING FOR FUTURE CONNECTION. SEE SHEET P21 FOR ALL NEW WATER PIPING.

FOR BID ONLY

FOR BID ONLY

FOR BID ONLY

FOR BID ONLY

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 EARTH-WORK.

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.

**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 SAFETY-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.

**FLOOR FIXTURE ELEVATIONS**

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

FIXTURE	TYPE	RIM ELEVATION
P-10	FLOOR DRAIN	1/2" BFF
P-35	MOP SINK DRAIN	7" BFF
P-36	INDIRECT WASTE RECEIVER	1/2" BFF
P-37	FLOOR DRAIN	1/2" BFF

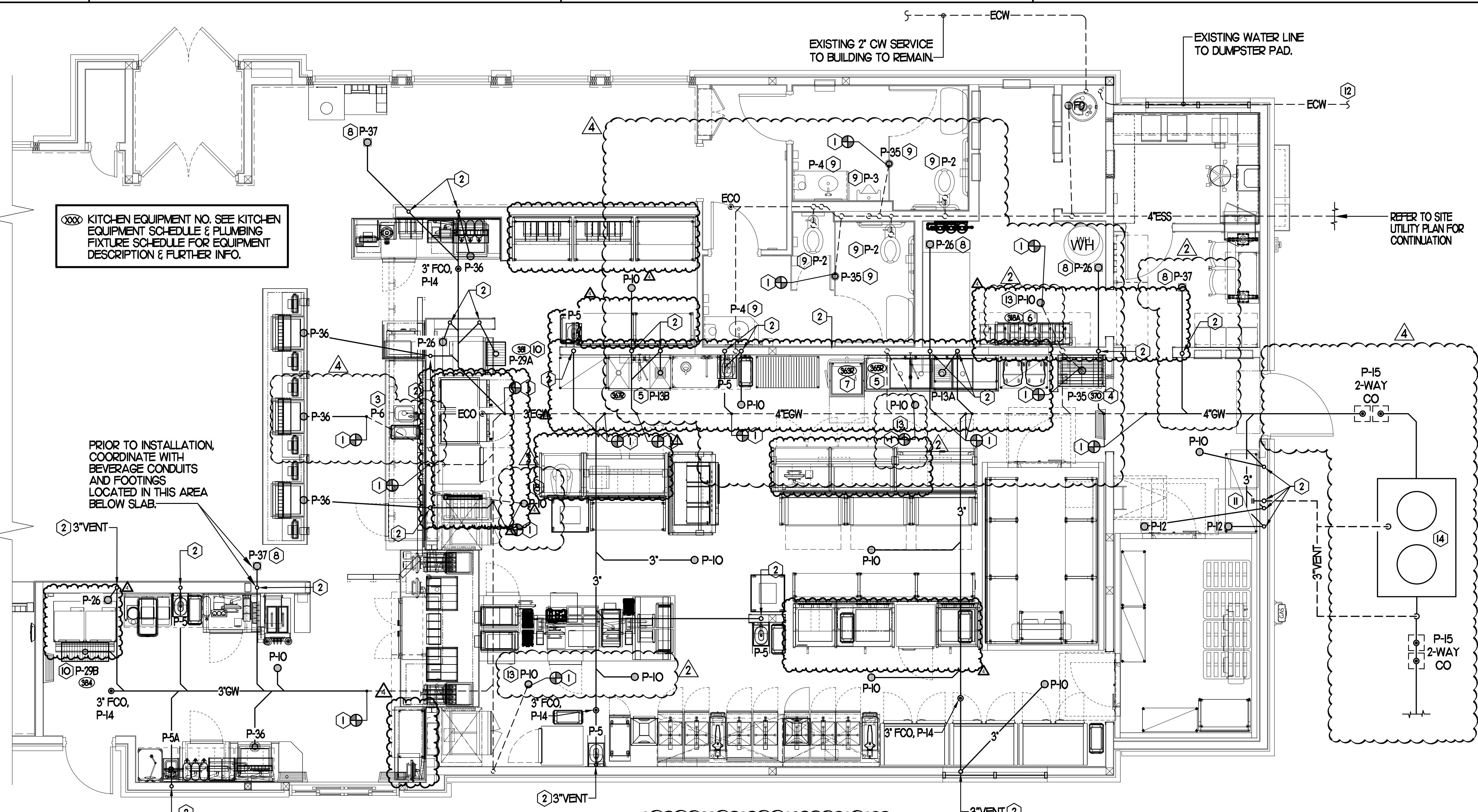
NOTE: THE RIM ELEVATIONS SHOWN HERE SHOULD MATCH THE DEPRESSED SLAB. CONFIRM WITH ARCHITECTURAL PLANS. SEE ARCHITECTURAL PLANS FOR FLOOR SLOPE AT SLAB DEPRESSION FOR FIXTURES INSTALLED BELOW FINISHED FLOOR ELEVATION. FLOOR FIXTURES NOT LISTED HERE SHALL BE INSTALLED FLAT AND FLUSH WITH FINISHED FLOOR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

**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.

KITCHEN EQUIPMENT NO. SEE KITCHEN EQUIPMENT SCHEDULE & PLUMBING FIXTURE SCHEDULE FOR EQUIPMENT DESCRIPTION & FURTHER INFO.

PRIOR TO INSTALLATION, COORDINATE WITH BEVERAGE CONDUITS AND FOOTINGS LOCATED IN THIS AREA BELOW SLAB.



**KEY NOTES**

- CONNECT NEW WASTE/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.
- 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.
- INSTALL FLOOR DRAIN P-35 AT MOP SINK DEPRESSION WITH TOP OF STRAINER 0'-7" BFF.
- PROVIDE AND INSTALL NEW WASTE PIPING BELOW KITCHEN SINK. PROVIDE 1/2" SHED 40 PVC INDIRECT WASTE DRAIN FROM EACH SINK BASIN TO FLOOR SINK. NO P-TRAPS REQUIRED.
- 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 MOP SINK DRAIN ON OPPOSITE SIDE OF WALL.
- ROUTE DRAIN LINE FULL SIZE TO FLOOR SINK LOCATED BELOW POT SINK AND TERMINATE WITH CODE APPROVED AIR GAP.
- PROVIDE WITH TRAP SEAL PROTECTOR, P-26A.
- INSTALL NEW RESTROOM PLUMBING FIXTURE. MAKE CONNECTION TO EXISTING WASTE LINE LOCATED BELOW SLAB/WITHIN WALL. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL PIPE REQUIRED.
- TRANSITION OUTLET OF DRAIN FROM 4" DIA. TO 3" DIA. DRAIN LINE AND TRAP.
- NEW 3" DIAMETER VENT PIPING UNDER GROUND AND RISER IN WALL. INSTALL WALL CLEANOUT W/ CLEANOUT PLUG CHARLOTTE PIPE NO. 445-X ON RISER AT 3'-0" ABOVE GRADE TO CENTER OF PLUG. INSTALL .JR. SMITH 4760-12"X12" ACCESS DOOR.
- WHERE NEW BUILDING ADDITION INTERFERES WITH EXISTING REFUSE PAD WATER LINE, PLUMBING CONTRACTOR SHALL ROUTE NEW 3/4" CW BELOW GRADE AS REQUIRED TO YARD HYDRANT. THERE SHALL BE NO JOINTS BELOW SLAB.
- INSTALL NEW FLOOR DRAIN IN SAME LOCATION AS EXISTING DRAIN WAS DEMOLISHED. MAKE CONNECTION TO EXISTING WASTE PIPING. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL PIPE REQUIRED.
- PROVIDE AND INSTALL NEW GREASE INTERCEPTOR. REFER TO DETAIL FOR REQUIREMENTS. REFER TO SITE PLAN FOR LOCATION AND ALL CONNECTIONS. VERIFY IN FIELD W/ SITE & NEW CONSTRUCTION WORK. SEE POI FOR DEMOLITION REQUIREMENTS.

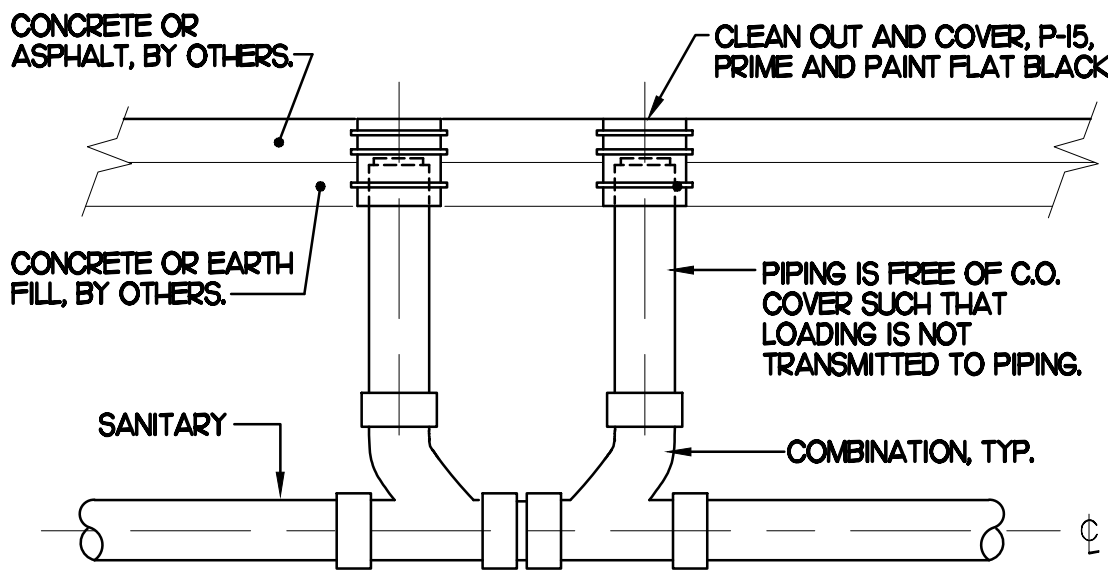
**1 BELOW SLAB PLUMBING PLAN**

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

**GAS PIPING NOTE:** PLUMBING CONTRACTOR SHALL ENSURE THAT A 4" CONDUIT IS INCLUDED FOR IRRIGATION SLEEVES LOCATED BELOW GRADE/SLAB OUTSIDE OF BUILDING.

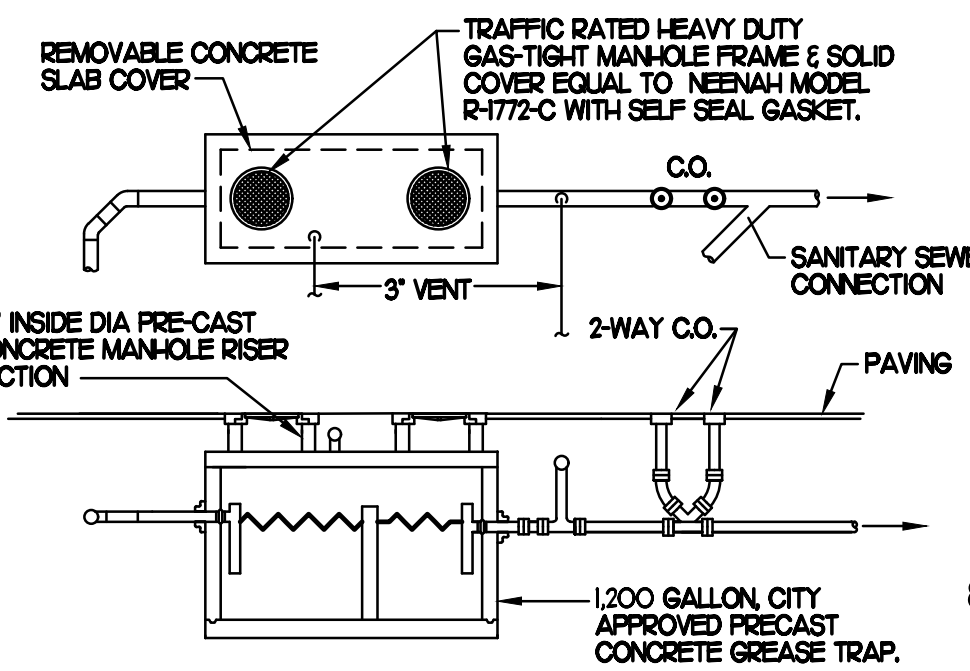
**PIPING LEGEND (This Sheet)**

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/WHZ)	CW
POINT OF CONNECTION	⊕
FLOOR DRAIN	⊙
FLOOR SINK	⊠
FLOOR/EXTERIOR CLEANOUT	⊙



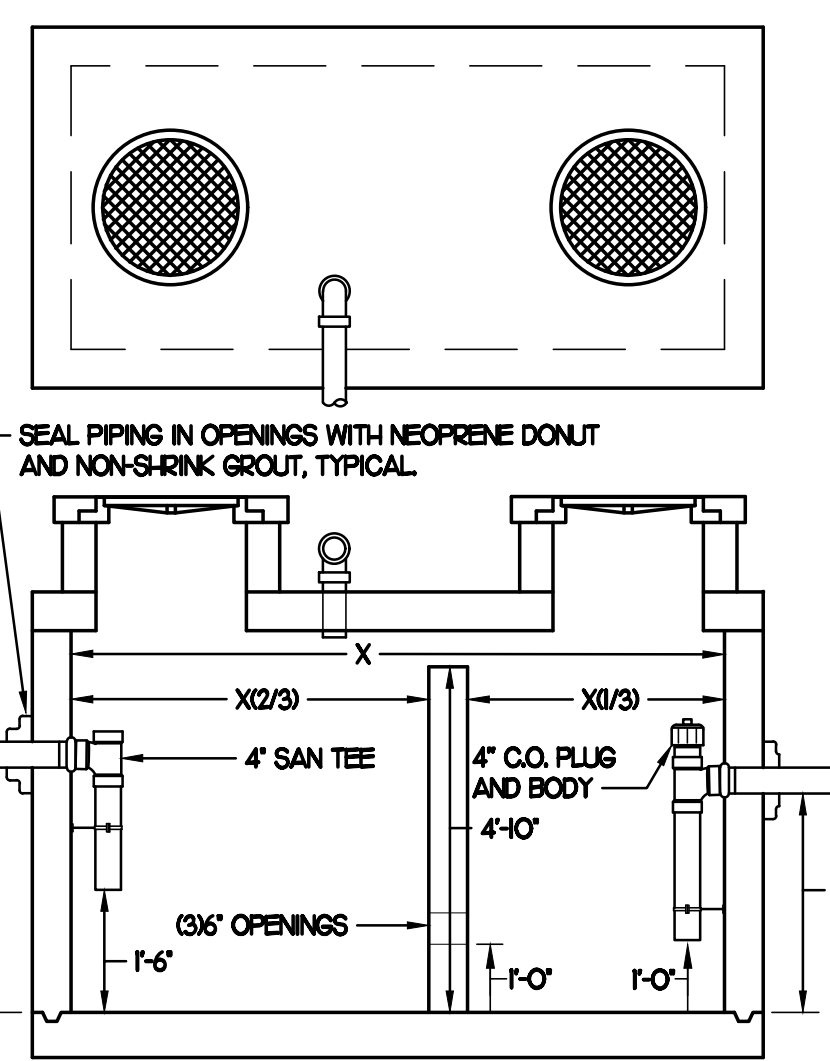
**4 SAN. C.O. OUTSIDE BUILDING**  
SCALE: NONE

NOTE: PLUMBING CONTRACTOR SHALL VERIFY WITH LOCAL CODE AUTHORITY THE SIZE OF GREASETRAP REQUIRED PRIOR TO ORDERING SIZE SHOWN.



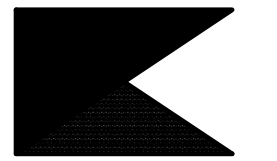
**NOTES:**  
1. SET ON 0'-4" OF STRUCTURAL BACKFILL.  
2. INTERIOR DIMENSIONS CHANGES ALLOWED TO ACCOMPLISH REQUIRED VOLUME.  
3. TRAP CAPACITY SUBJECT TO APPROVAL BY STATE OR LOCAL AUTHORITY. CONSTRUCTION MUST BE MONOLITHIC, INCLUDING THE BAFFLE TRAP MUST MEET H-20 TRAFFIC LOADING REQUIREMENTS WHEN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

**2 GREASE INTERCEPTOR**  
SCALE: NONE

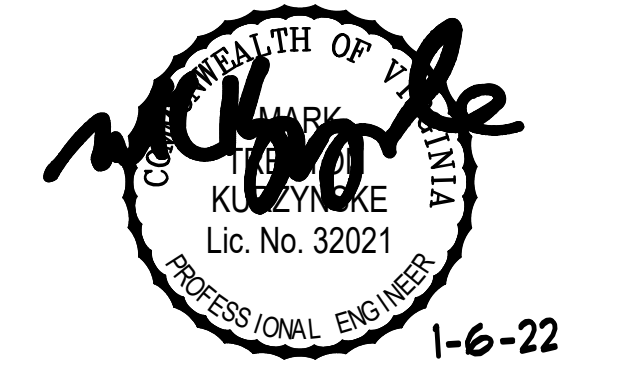


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CONSULTING ENGINEERS  
2705 Lebanon Pike - Suite One  
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SHEET BELOW SLAB PLUMBING PLAN

SHEET NUMBER

**P1.1**

PERMIT



### BEVERAGE CONDUIT NOTES

1. REUSE EXISTING BEVERAGE CONDUITS OR THEIR PORTIONS WHERE INDICATED ON DRAWINGS. ROUTE BEVERAGE SYSTEM PIPING OVER-HEAD 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 OVER-HEAD PIPING. COORDINATE ROUTING WITH THE GENERAL CONTRACTOR TO AVOID MECHANICAL AND ELECTRICAL SYSTEMS.
2. COORDINATE ROUTING OF ALL CONDUITS WITH HVAC DUCT IN KITCHEN. SEE SHEET M-1 FOR LOCATION OF AC UNITS AND DUCT ROUTING.
3. 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.
4. 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.
5. 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.
6. AT CONDUIT DROP IN DRIVE-THRU, PROVIDE 1/8TH BEND FITTING WITH SHORT PIPE STUB AT BASE OF DROP. CUT STUB AND FITTINGS FLUSH WITH FINISHED WALL.
7. 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.

THREE (3) - 6" DIA SCHED 40 BEVERAGE CONDUITS UP FROM BELOW SLAB. EXTEND WITHIN WALL. TERMINATE ABOVE CEILING WITH 90 DEGREE LONG TURN ELBOW.

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.

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.

PLUMBING CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL AND CFY SHOP DRAWINGS FOR BEVERAGE CONDUIT STUB-UP LOCATION PRIOR TO INSTALLATION AND SLAB CUTTING. (TYPICAL OF 3).

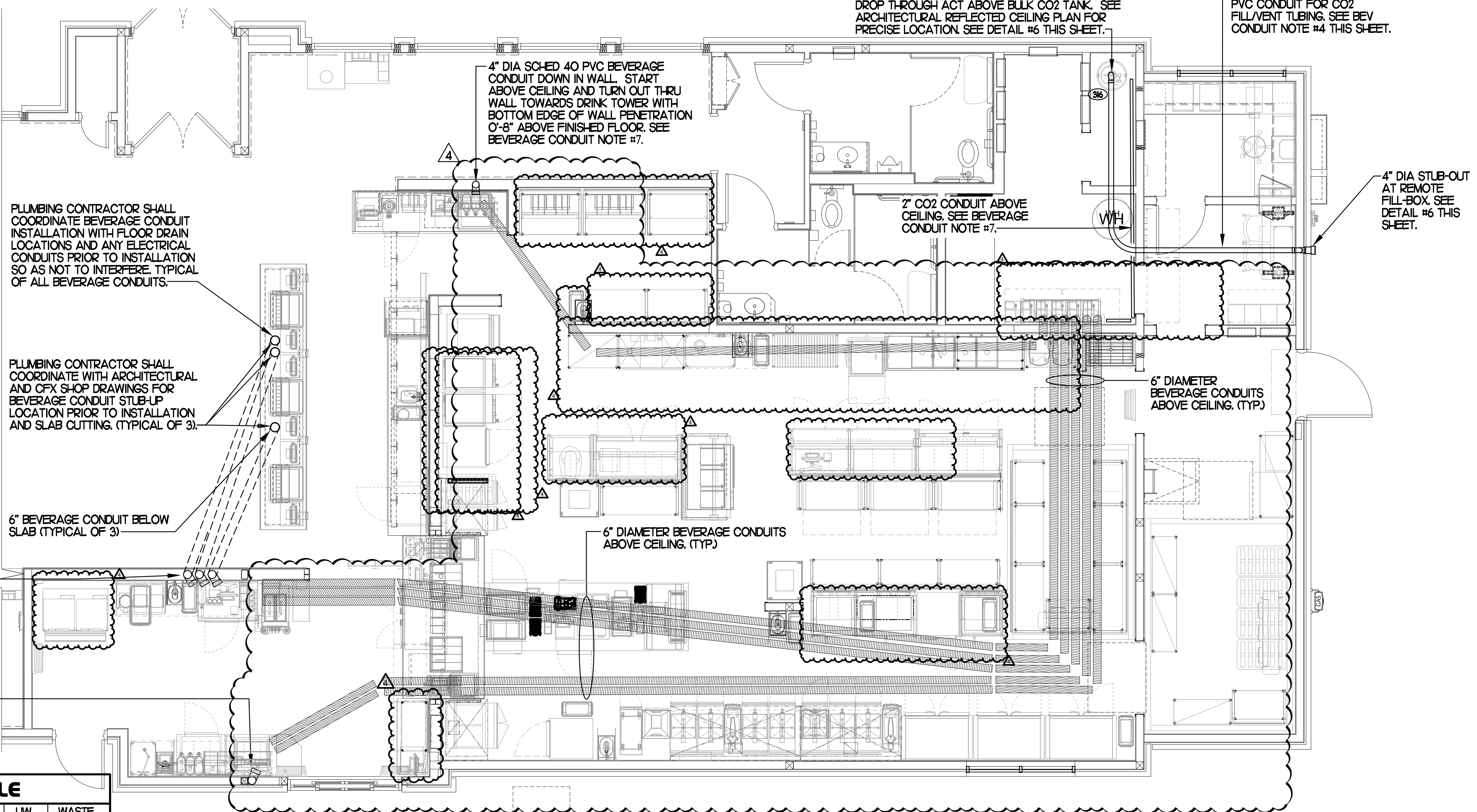
6" BEVERAGE CONDUIT BELOW SLAB (TYPICAL OF 3)

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. SEE BEVERAGE CONDUIT NOTE #7.

2" CO2 CONDUIT ABOVE CEILING. SEE BEVERAGE CONDUIT NOTE #7.

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

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



### 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/4"
P-5	KITCHEN HAND SINK - WALL HUNG (1.0 GPM)	X	X	1/2"	1/2"	H/2"
P-5A	KITCHEN DUMP SINK - WALL HUNG (1.0 GPM)	X	X	1/2"	1/2"	H/2"
P-6	SINGLE COMP SINK - COUNTERTOP (1.0 GPM)	X	X	1/2"	1/2"	H/2"
P-7	MOP SINK	X	X	1/2"	1/2"	3"
P-8	VEGETABLE PREP SINK (0.65 GPM SPRAYER)	X	X	1/2"	1/2"	(2) 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") 1/2" 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-16	3-WAY VALVE/ VACUUM BREAKER	X	X	3/4"	3/4"	X
P-20	THERMOMETER	X	X	X	1/2"	X
P-22	MOP SINK CHECK VALVES	X	X	1/2"	1/2"	X
P-23	UTILITY CONNECTION (ICE MAKER)	X	1/2"	X	X	X
P-24	UTILITY CONNECTION (COFFEE & TEA)	1/2"	X	X	X	X
P-25	SHOCK ABSORBER	1/2"	1/2" & 3/4"	1/2"	1/2"	X
P-26	FUNNEL DRAIN	X	X	X	X	3"
P-26A	TRAP SEAL PROTECTOR	X	X	X	X	3"
P-27	WATER PRESSURE GAUGE	X	X	1/4"	X	X
P-28	BALL VALVE-CARBONATOR STOP/BFP PANEL	3/4"	X	X	X	X
P-29A	ICE MACHINE TRENCH DRAIN (18"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 HYDRANT	X	X	3/4"	X	X
P-32	DUMPSTER DRAIN	X	X	X	X	3"
P-33	TRAP PRIMER (MECHANICAL TYPE)	X	X	1/2"	X	X
P-34	DISPENSER BACKFLOW PREVENTER	1/2"	X	X	X	X
P-35	FLOOR DRAIN	X	X	X	X	3"
P-36	BEVERAGE TOWER INDIRECT RECEIVER	X	X	X	X	3"
P-37	FLOOR DRAIN (SQUARE TOP)	X	X	1/2"	X	3"
P-38	HOT WATER CIRCULATING PUMP	X	X	X	1/2"	X
P-41DW	DISHWASHER SUPPLY FAUCET	X	X	3/4"	X	X
P-42	EMERGENCY THERMOSTATIC MIXING VALVE (EMERGENCY EYE WASH)	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.

### BEVERAGE CONDUIT PIPING PLAN

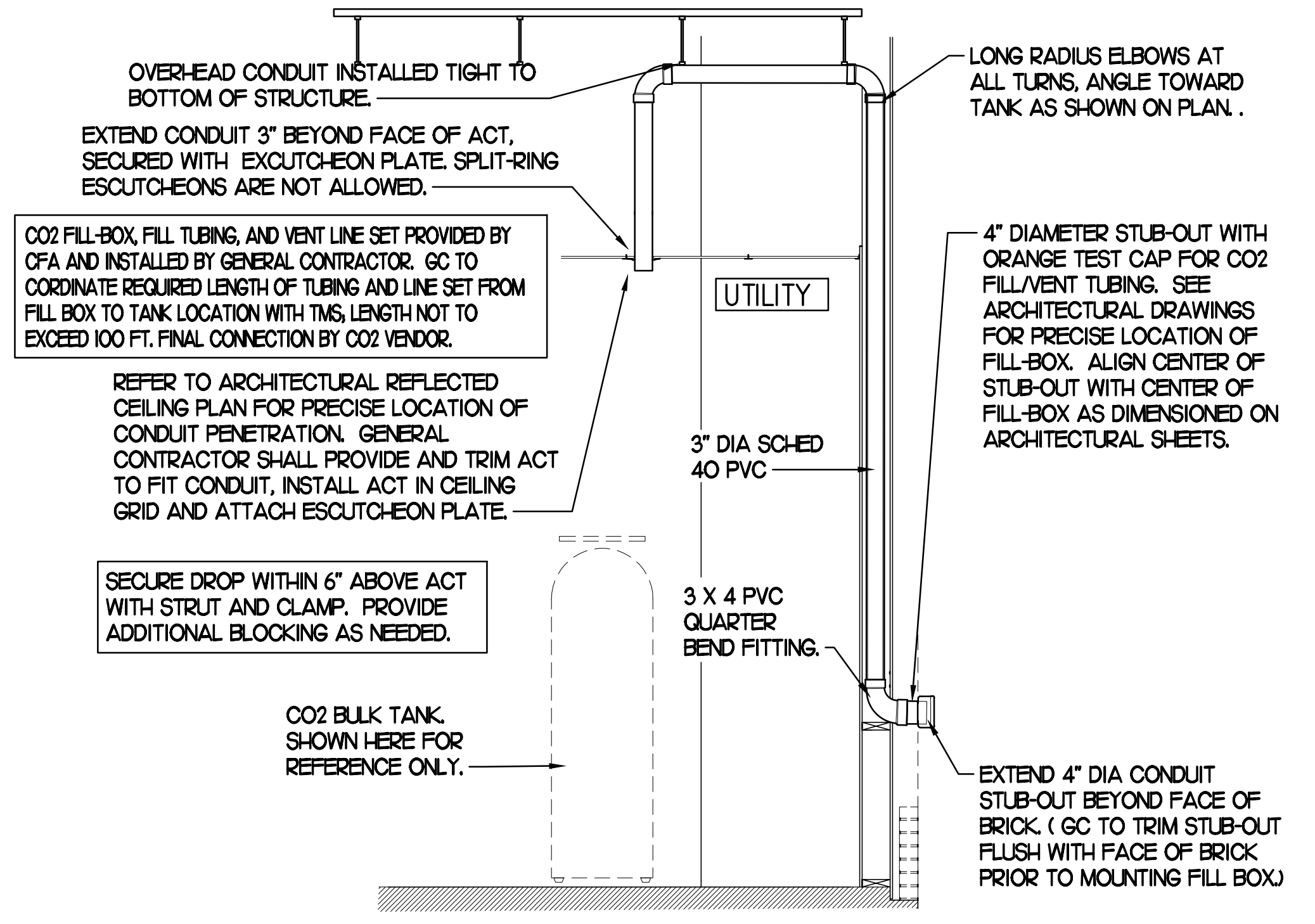
1/4"=1'-0"

PRIOR TO DEMOLITION OF ANY EXISTING CONDUITS, PLUMBING CONTRACTOR SHALL COORDINATE WITH BEVERAGE PROVIDER IF EXISTING CONDUITS ARE ADEQUATE. ALL EXISTING CONDITIONS SHALL BE VERIFIED PRIOR TO BID.

### 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
(339)	DISH-WASHER	X	X	3/4"	X	INDIRECT	SEE K-41
(36)	POT SINK	X	X	(2) 1/2"	(2) 1/2"	INDIRECT	TWO #365F FAUCETS, P-9
(36)	VEGETABLE PREP SINK	X	X	1/2"	1/2"	INDIRECT	ONE #367F FAUCET, P-8
(37F)	KITCHEN WALL FAUCET	(2) 1/2"	X	X	X	X	P-30 48" AFF.
(37F)	KITCHEN WALL FAUCET	(2) 1/2"	X	X	X	X	P-30 48" AFF.
(37)	MOP SINK	X	X	1/2"	1/2"	3" P-35	SEE DET 2/P21
(38)	ICE BIN	X	X	X	X	INDIRECT	P-26 DRAIN
(38A)	ICE BIN	X	X	X	X	INDIRECT	P-26 DRAIN
(39)	ICE MAKER	X	1/2"	X	X	INDIRECT	P-23, SEE DET3/P41
(39B)	ICE MAKER	X	(2) 1/2"	X	X	INDIRECT	P-23, SEE DET3/P41
(39Z)	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.



OVER-HEAD 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, FILL TUBING, AND VENT LINE SET PROVIDED BY CFA AND INSTALLED BY GENERAL CONTRACTOR. GC TO COORDINATE REQUIRED LENGTH OF TUBING AND LINE SET FROM FILL BOX TO TANK LOCATION WITH THIS LENGTH NOT TO EXCEED 100 FT. FINAL CONNECTION BY 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.

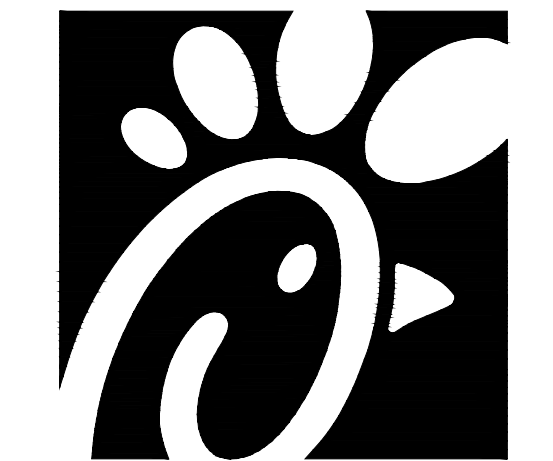
CO2 BULK TANK SHOWN HERE FOR REFERENCE ONLY.

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.

### 6 CO2 FILL/VENT CONDUIT AND FILL-BOX INSTALLATION

SCALE: NONE

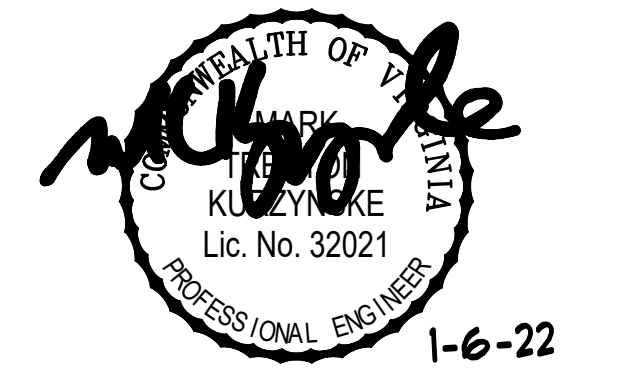


Chick-fil-A

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



Kurzynske & Associates  
CONSULTING ENGINEERS  
2705 Lebanon Pike - Suite One  
Nashville, Tennessee 37214  
Telephone: (615) 255-8203



1-6-22

**CHICK-FIL-A**  
Rutherford Crossing  
112 Market Street  
Winchester, VA 22603

**FSR#02288**

BUILDING TYPE / SIZE: S06-C  
RELEASE: v12.20

NO.	DATE	DESCRIPTION
4	12/17/21	Owner Revisions

CONSULTANT PROJECT # 21079 HF R  
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SHEET BEVERAGE CONDUIT PLAN

SHEET NUMBER

**P2.2**



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



**Kurzynske & Associates**  
CONSULTING ENGINEERS  
2706 Lebanon Pike - Suite One  
Nashville, Tennessee 37214  
Telephone: (615) 255-8203



1-6-22

**CHICK-FIL-A**  
Rutherford Crossing  
112 Market Street  
Winchester, VA 22603

**FSR#02288**

BUILDING TYPE / SIZE: S06-C  
RELEASE: v12.20

NO.	DATE	DESCRIPTION
2	11/08/21	Plan Review Cmnts
4	12/17/21	Owner Revisions

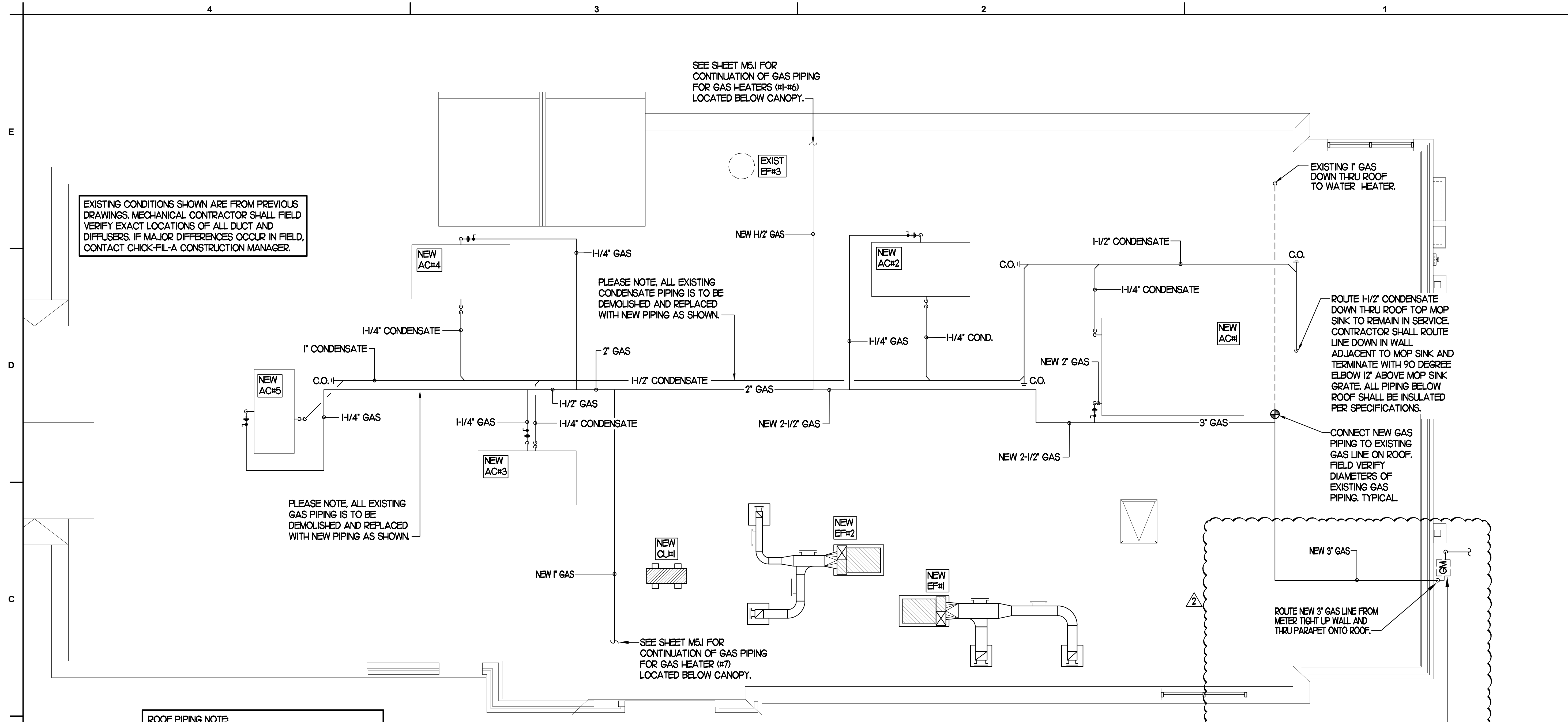
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SHEET  
ROOF PLAN  
AND DETAILS

SHEET NUMBER

**P3.1**

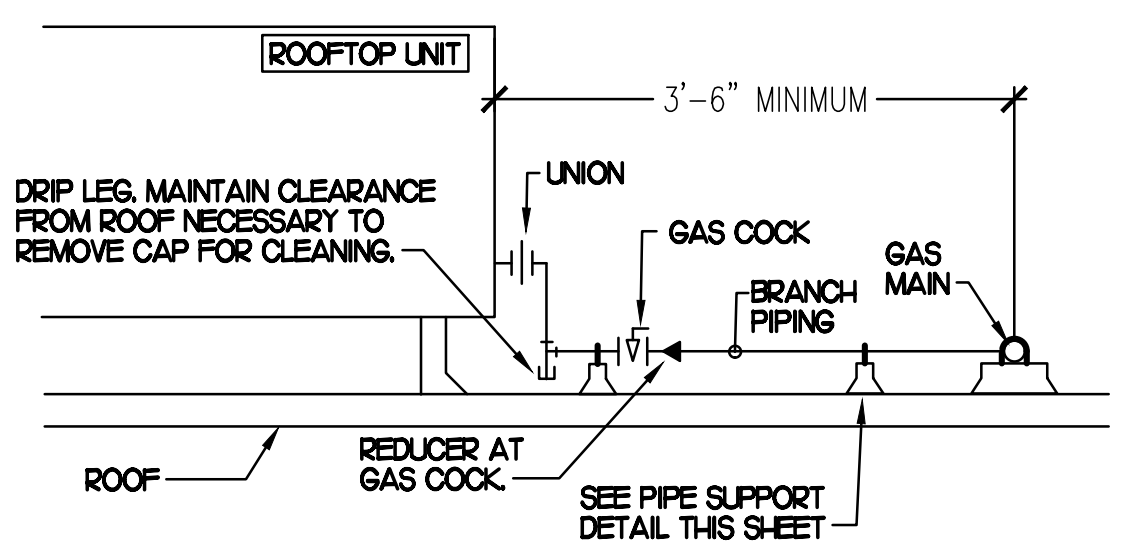


**1 PLUMBING ROOF PLAN**

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

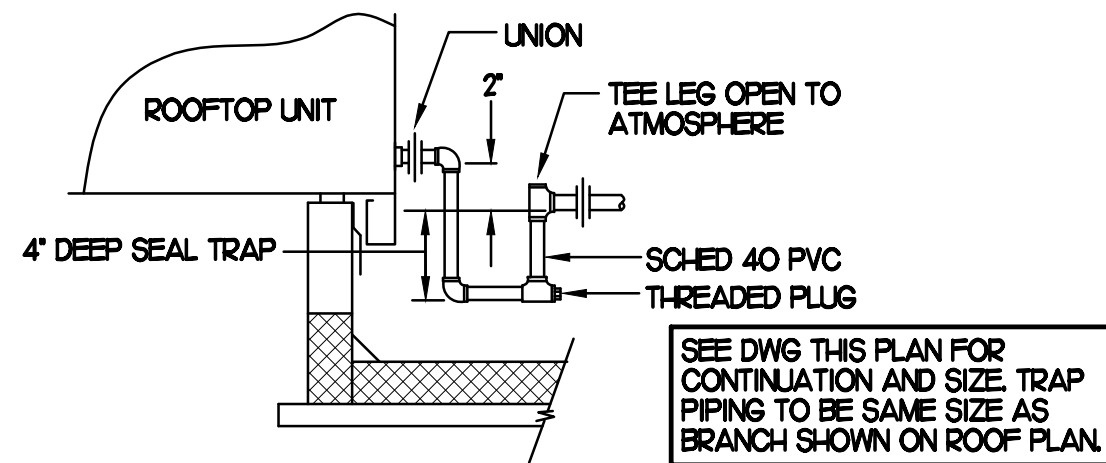
**ROOF PIPING NOTE:**  
PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION OF EXISTING GAS & CONDENSATE PIPING NO LONGER NEEDED ALONG WITH THE INSTALLATION OF ALL NEW GAS & CONDENSATE PIPING REQUIRED. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW PIPING REQUIRED.

- 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.



**3 GAS PIPING AT RTU**

NO SCALE



**2 CONDENSATE DRAIN PIPING**

NO SCALE

**GAS PIPING NOTE:**  
PLUMBING CONTRACTOR SHALL ENSURE THAT A 4" CONDUIT IS INCLUDED FOR GAS SLEEVE TO LANDSCAPE AREA BETWEEN CHICK-FIL-A AND MCDONALDS.

**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.

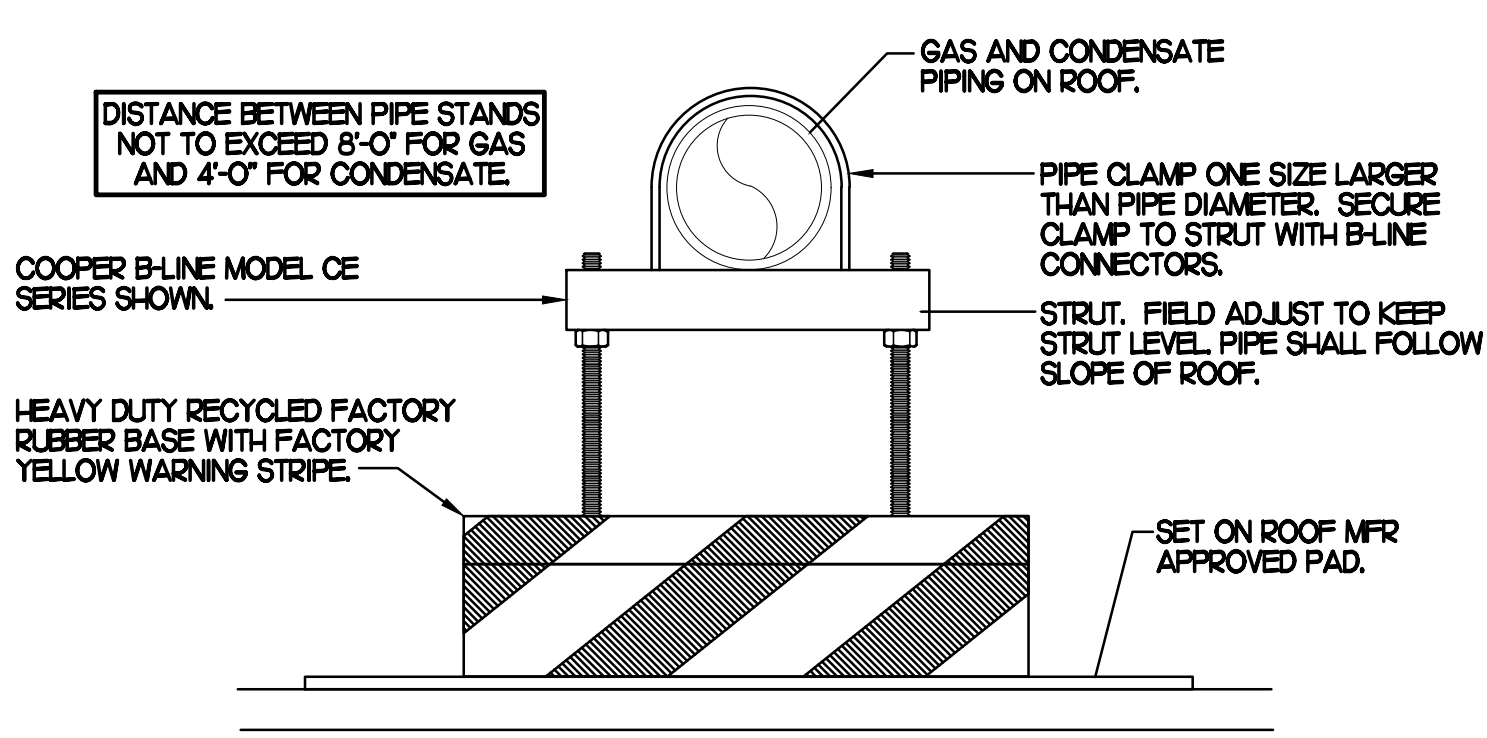
**GAS CONNECTION SCHEDULE**

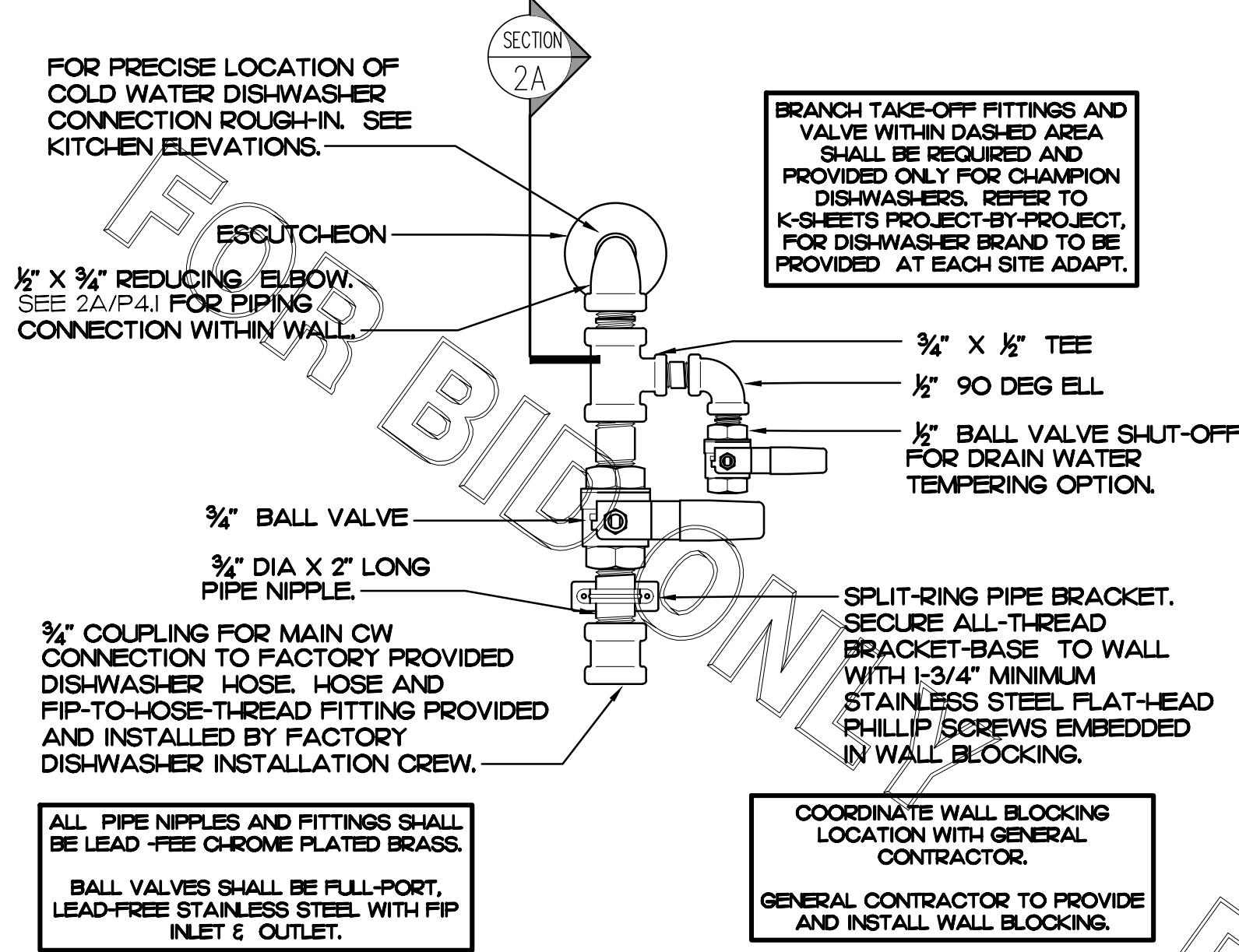
EQUIPMENT	GAS LOAD
AC#1 (NEW)	480,000 BTUS
AC#2 (NEW)	240,000 BTUS
AC#3 (NEW)	240,000 BTUS
AC#4 (NEW)	240,000 BTUS
AC#5 (NEW)	150,000 BTUS
WATER HEATER (NEW)	120,000 BTUS
GH-#7 (50,000 EA)	350,000 BTUS
<b>TOTAL CONNECTED LOAD</b>	<b>1,820,000 BTUS</b>

- REMARKS:**
- EQUIVALENT TO 1820 CFH
  - 7" W.C. DELIVERY PRESSURE
  - DEVELOPED LENGTH 200 FT. (METER TO GH-#7)
  - VERIFY GAS LOAD OF EXISTING EQUIPMENT.

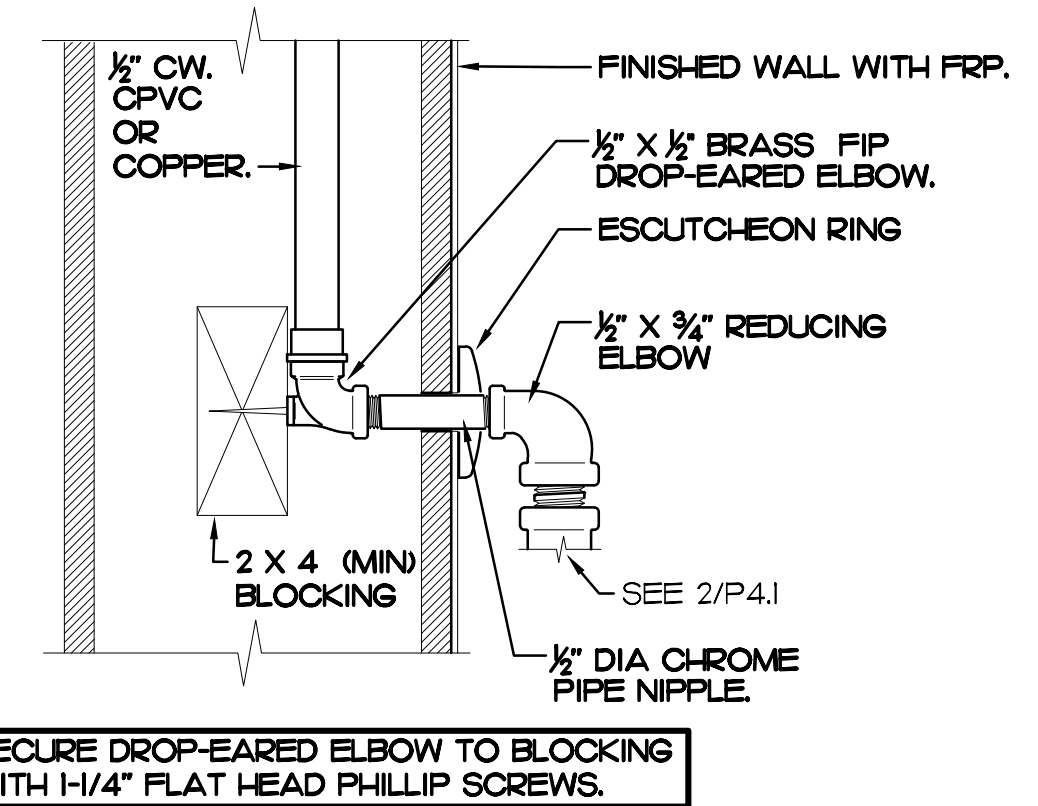
**4 PIPING SUPPORT**

NO SCALE

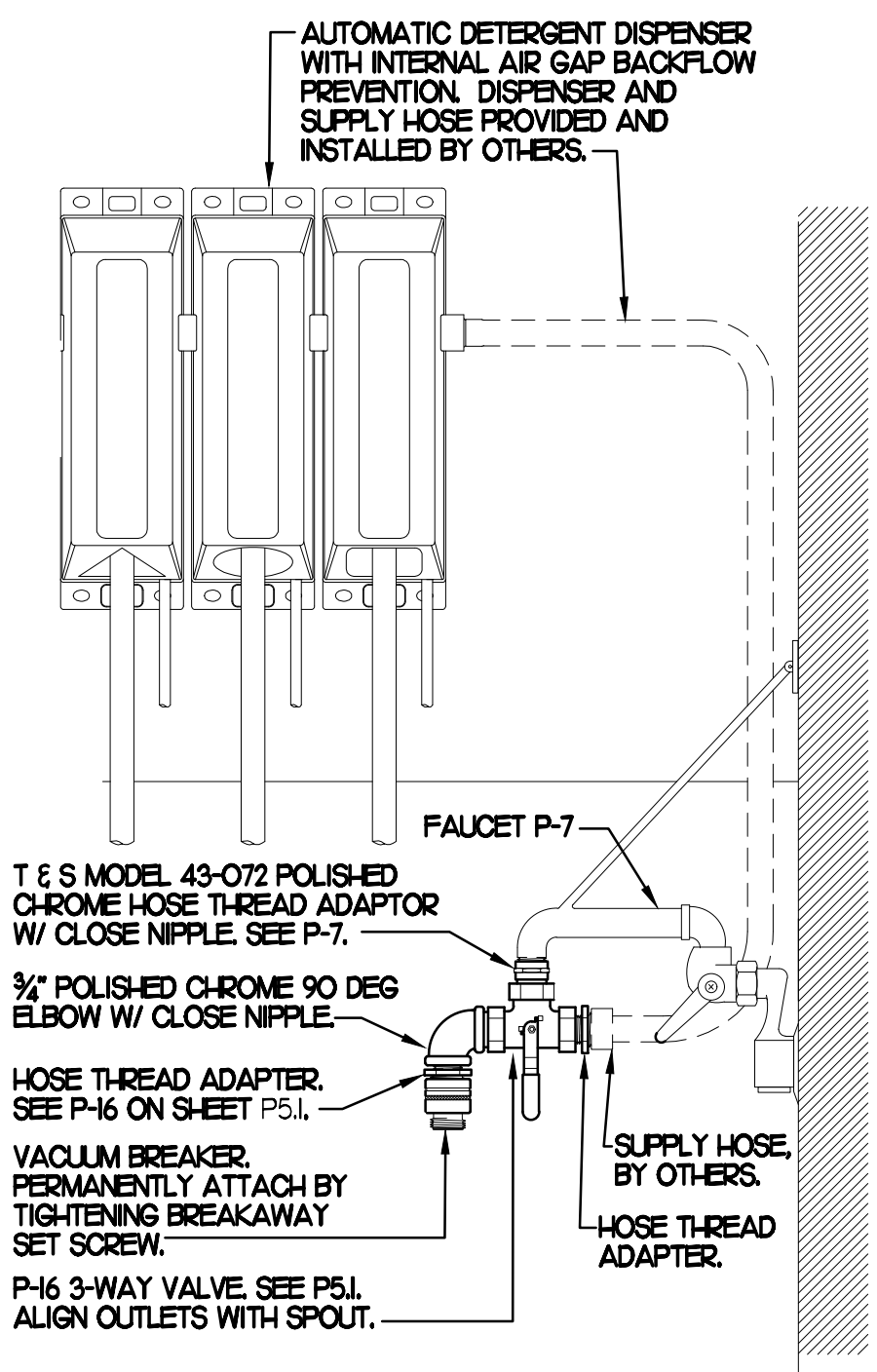




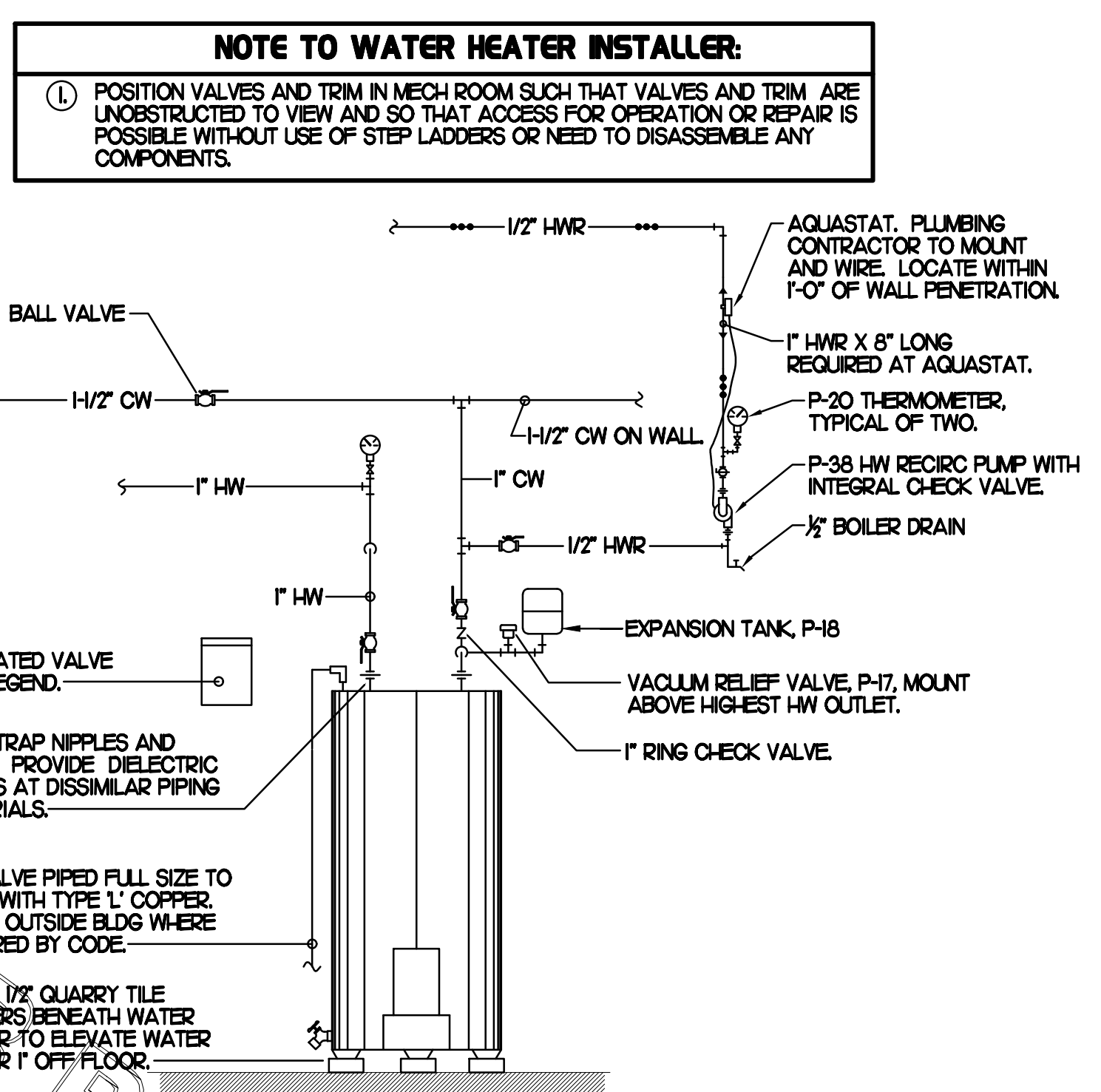
**2 DISHWASHER WATER SUPPLY VALVE ASSEMBLY**  
SCALE: NONE



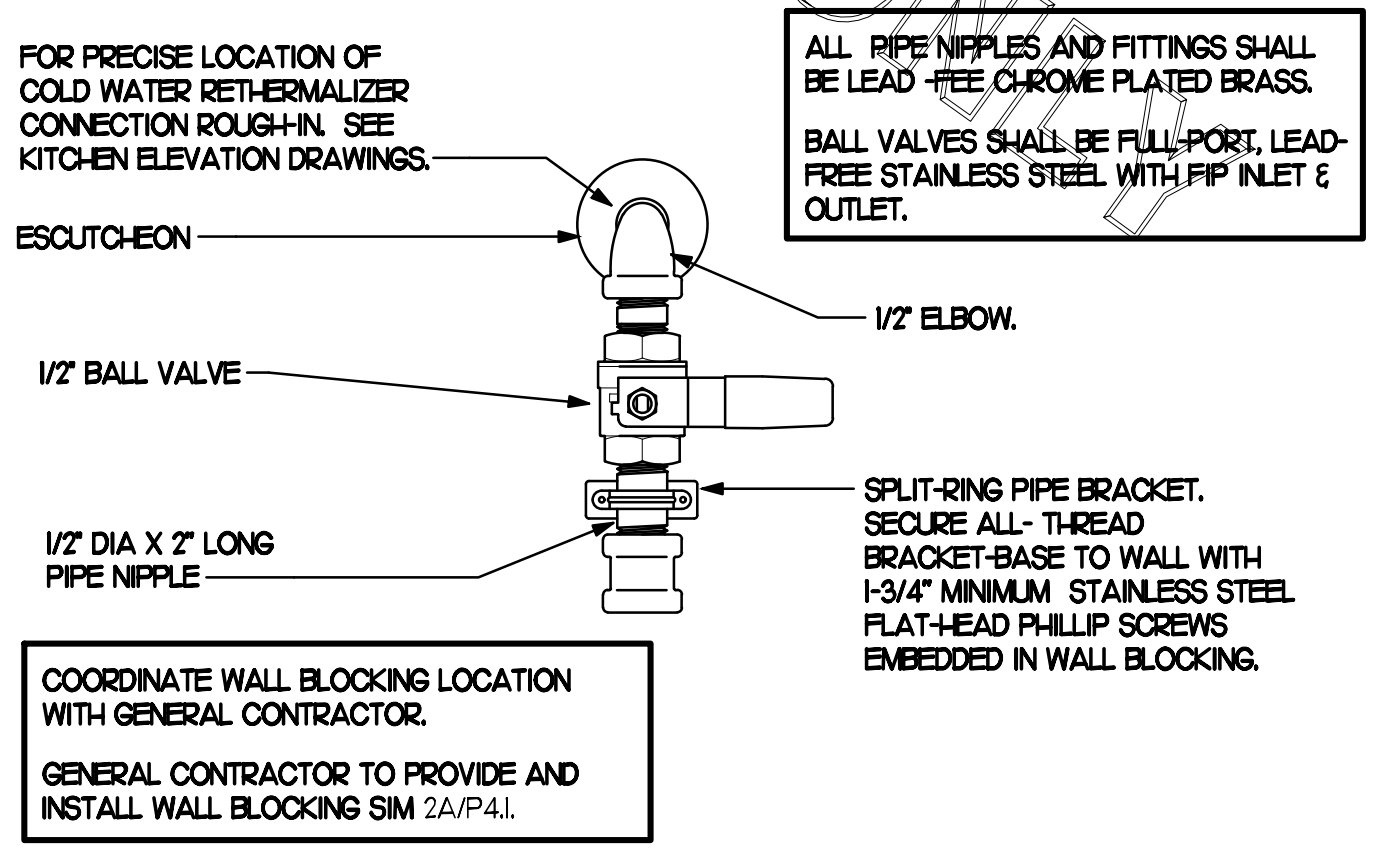
**2A SECTION AT PIPING WITHIN WALL**  
SCALE: NONE



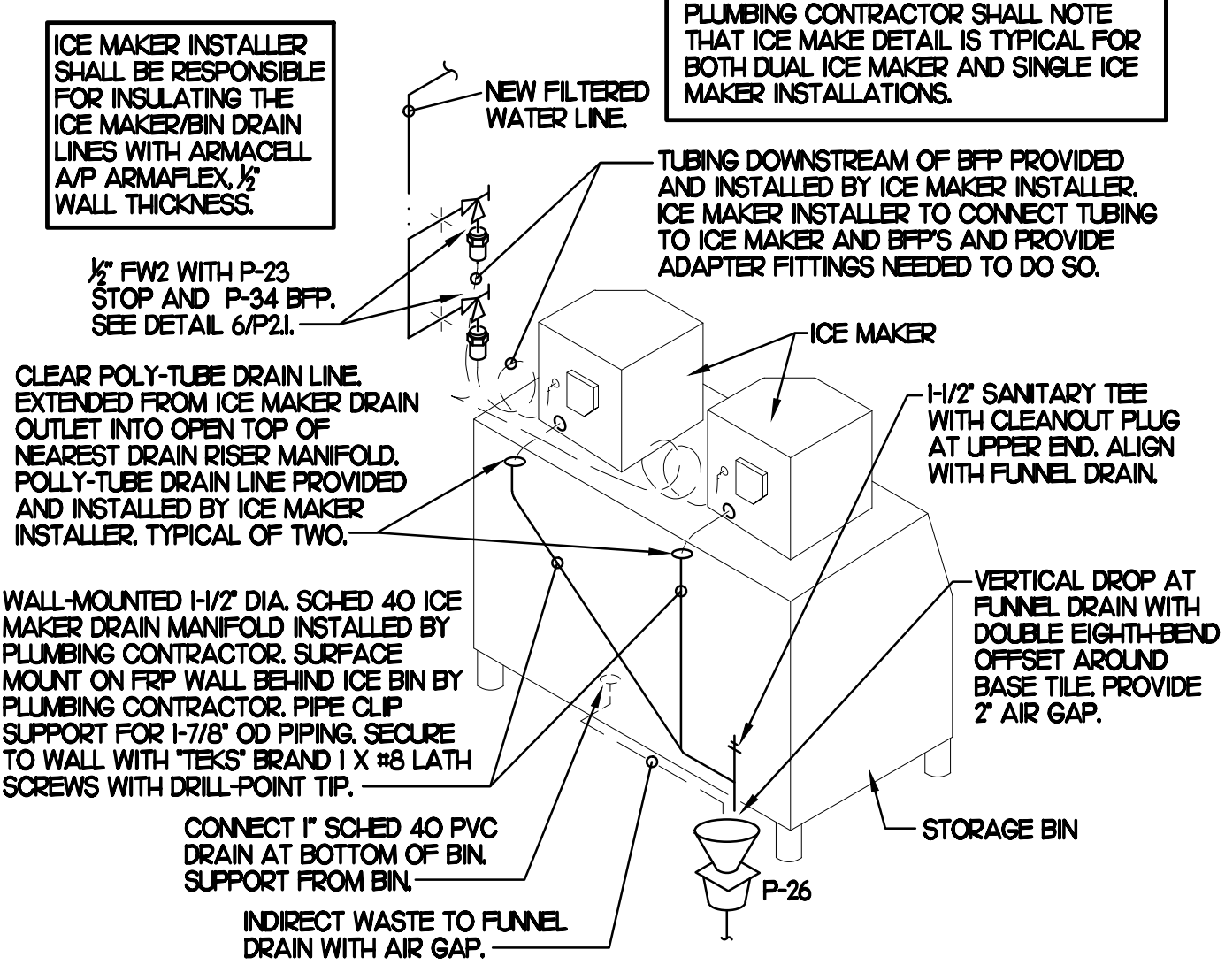
**4 3-WAY VALVE AT MOP SINK**  
SCALE: NONE



**5 WATER HEATER INSTALLATION**  
SCALE: NONE



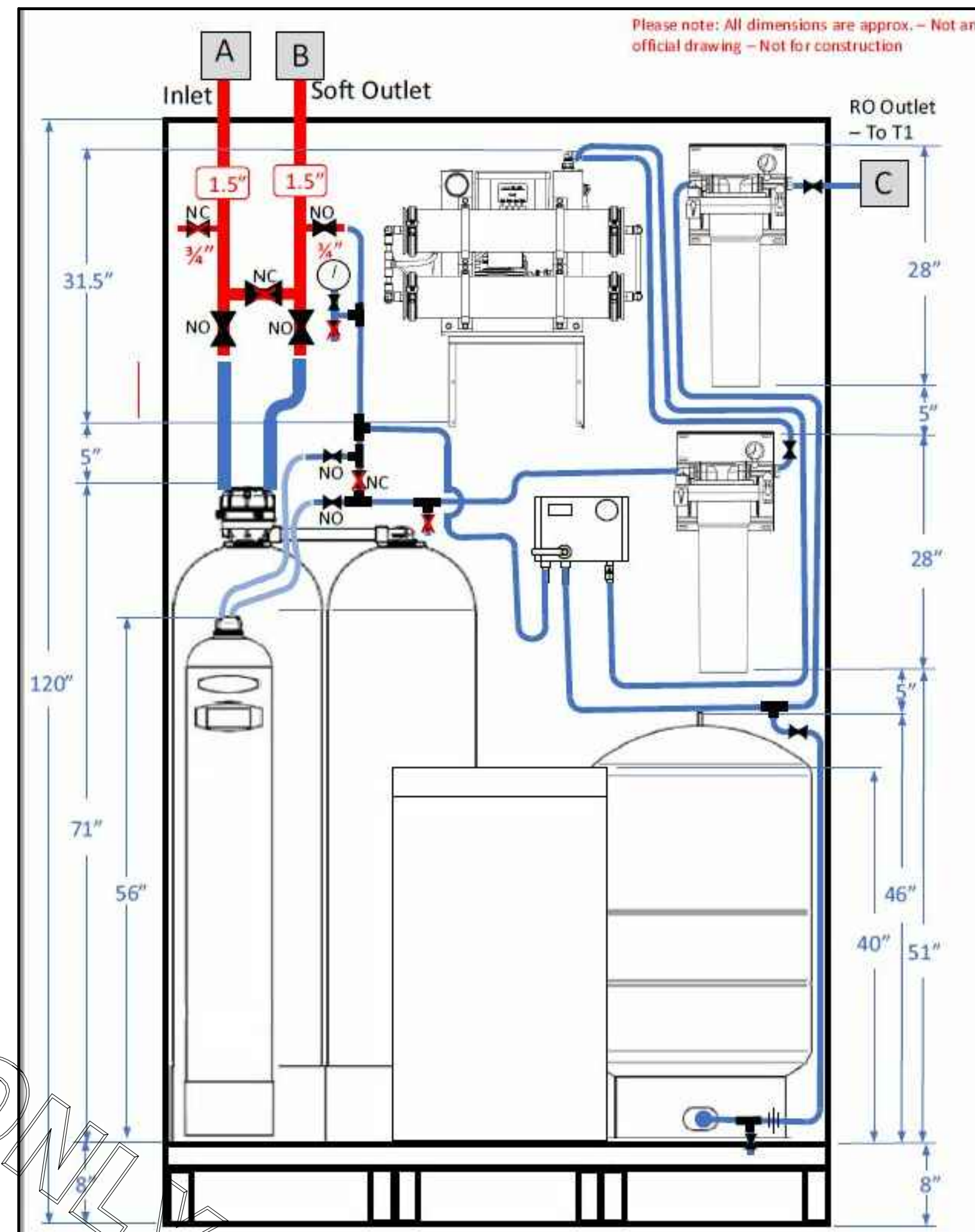
**1 RETHERMALIZER WATER SUPPLY VALVE**  
SCALE: NONE



**3 ICE MACHINE PIPING**  
SCALE: NONE

**NOTE TO WATER HEATER INSTALLER:**  
1. POSITION VALVES AND TRIM IN MECH ROOM SUCH THAT VALVES AND TRIM ARE UNOBSTRUCTED TO VIEW AND SO THAT ACCESS FOR OPERATION OR REPAIR IS POSSIBLE WITHOUT USE OF STEP LADDERS OR NEED TO DISASSEMBLE ANY COMPONENTS.

**WATER FILTRATION SYSTEM NOTES:**  
1. PLUMBING CONTRACTOR IS RESPONSIBLE FOR PROVIDING WATER CONNECTIONS (INLET & OUTLET) SIZED PER DETAIL. 3-WAY VALVE BYPASS, CAPPED FILTERED WATER LINES TO OUTLET OF OWNER PROVIDED & INSTALLED KINETICO WATER SOFTENER/FILTRATION SYSTEM. SEE DETAIL BELOW FOR NUMBER OF LINES AND PIPE SIZES.  
2. PLUMBING CONTRACTOR IS RESPONSIBLE FOR WATER FILTER CONNECTIONS FROM PROTOTYPICAL T1 FILTRATION SYSTEM (P-36). SEE DETAIL.  
3. PLUMBING CONTRACTOR SHALL REVIEW DESIGN NOTE 2020-07 AND SYSTEMS TYPE GUIDE DEVELOPED BY OFA AND KINETICO.



**6 TYPE D+B - COFFEE-TEA / ICE RO + SOFTENER**  
NO SCALE



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

**Kurzynske & Associates**  
CONSULTING ENGINEERS  
2705 Lebanon Pike - Suite One  
Nashville, Tennessee 37214  
Telephone: (615) 255-8203



**CHICK-FIL-A**  
Rutherford Crossing  
112 Market Street  
Winchester, VA 22603

**FSR#02288**

BUILDING TYPE / SIZE:	S06-C	
RELEASE:	v12.20	
<b>REVISION SCHEDULE</b>		
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CONSULTANT PROJECT # 21079.HF.R		
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SHEET PLUMBING DETAILS  
SHEET NUMBER

# I. SECTION CIS100 - 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 GRADE. POTABLE WATER PIPING BELOW GRADE SHALL BE SLEEVED FOR ITS ENTIRE LENGTH WITH POLY SLEEVES MADE BY IPS WATER-TITE. ALL SLAB PENETRATIONS SHALL BE SLEEVED WITH POLY SLEEVES TO PROTECT PIPING FROM CORROSION BY CONCRETE.

C. COPPER PIPE FITTINGS SHALL BE WROUGHT COPPER SWEEP PATTERN FITTINGS SOLDERED USING 95-5 LEAD-FREE SOLDER MEETING ASTM B-32 OR BRAZED WITH SIL-FOS. SOLDER FLUXES SHALL MEET ASTM B-813 AND SHALL BE LEAD FREE. BRAZING FLUXES SHALL MEET AWS B3.1 OR B3.2.

D. WATER PIPING DOWNSTREAM OF SOFT DRINK CARBONATORS SHALL BE PROVIDED AND INSTALLED BY LOCAL SOFT DRINK VENDOR.

E. CPVC FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE MEETING ASTM D-2846 WITH CEMENTS MEETING ASTM F-493 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. FOR CPVC PIPING INSTALLATION, WALL STUBS AT FIXTURES AND EQUIPMENT SHALL BE COPPER AND SHALL BE SERIES 630-C. CPVC TO COPPER STUB OUT ELBOWS BY SIOUX CHIEF.

F. NIPPLES, ELBOWS, AND OTHER ACCESSORY FITTINGS REQUIRED TO COMPLETE ANY WATER PIPING CONNECTION SHALL BE BRASS OR OF SIMILAR TYPE METAL AS THE FITTING TO WHICH IT IS CONNECTED. GALVANIZED FITTINGS ARE PROHIBITED. (EXCEPTION: GALVANIZED HEAT TRAP WATER HEATER NIPPLES IF INTERNALLY PROTECTED WITH TEFLON OR POLYMER CORROSION-RESISTANT COATING.)

G. ALL HVAC CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-1784, D-1785 AND D-2865.

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-2865 AND D-2949. FOAM CORE AND/OR CELLULAR CORE PVC PIPING SHALL NOT BE ALLOWED. PVC PIPING OUTSIDE THE BUILDING, BELOW GRADE, SHALL BE TYPE SDR-35 MEETING ASTM D-3034, U.N.O.

I. DWV PIPE AND FITTINGS WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE SERVICE WEIGHT HUBLESS CAST IRON WITH SLEEVE, SHIELD, AND DRAWBAND JOINTS MEETING ASTM A-888 AND ASTM C-564.

J. PVC-DWV FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE INSIDE AND UNDERSLAB MEETING ASTM D-2665, D-3311 AND F-186. CEMENTS SHALL MEET ASTM D-2564 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. EXTERIOR PIPING JOINTS SHALL BE NEOPRENE PUSH-ON TYPE.

K. PROVIDE 1" THICK PIPE INSULATION FOR ALL ABOVE SLAB HOT AND TEMPERED WATER PIPING. PROVIDE 1/2" THICK INSULATION FOR ALL ABOVE SLAB COLD WATER, FILTERED WATER, CONDENSATE PIPING, AND HORIZONTAL RAIN WATER CONDUCTORS INSIDE THE BUILDING. PIPING INSULATION SHALL BE KNAUF 1000F 25/50 FIBERGLASS PIPE COVERING, WHITE KRAFT PAPER VAPOR BARRIER (02 PERMS) BONDED TO ALUMINUM FOIL AND REINFORCED WITH GLASS FIBERS. MAXIMUM THERMAL CONDUCTIVITY OF 0.23 AT 75F. LONGITUDINAL LAP SHALL BE SELF SEALING. INSULATION FOR WALK-IN COOLER/REFREEZER CONDENSATE PIPING SHALL BE ARMAFLEX AP 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, 800-875-7788.

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 WELDING 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. GRAVEL SHALL BE REMOVED FROM UNDER PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.

D. IN MOSTLY EARTH OR SAND MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH FINE SAND OR GRAVEL. TRENCH BOTTOM SHALL BE REMOVED AT PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.

E. BACKFILLING AND TAMPING SHALL BE CAREFULLY DONE BY HAND SIMULTANEOUSLY ALONG BOTH SIDES OF THE PIPE USING ROCK FREE EARTH, CRUSHED STONE OR SAND UNTIL THE PIPE IS COVERED TO A DEPTH OF AT LEAST 12". BACKFILL SHALL BE ACCOMPLISHED IN SUCCESSIVE 6" LAYERS. THE REST OF THE

FILL-UP TO THE TOPSOIL LAYER MAY BE GRAVEL OR ROCK FREE EARTH.

F. ACCEPTABLE SOIL MATERIALS FOR BACKFILL AND FILL SHALL BE FREE OF CLAY, ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS AND OTHER DELETERIOUS MATTER HAVING A PLASTICITY INDEX LESS THAN 30. BACKFILL SHALL BE ACCOMPLISHED IN LAYERS OF NOT MORE THAN 6" AND EACH LAYER SHALL BE COMPACTED. THE LAST 12" OF BACKFILL SHALL BE ROCK FREE TOPSOIL.

G. SURFACE SHALL BE RESTORED TO ITS ORIGINAL CONDITION.

### 2.02 INSTALLATION (C15100)

A. WATER PIPING IN EXTERIOR WALL SHALL BE INSTALLED ON THE HEATED SIDE OF WALL INSULATION.

B. EXPOSED HOT AND COLD WATER TRIM FITTINGS AND ACCESSORIES IN FINISHED AREAS SHALL BE CHROME FINISHED.

C. ACCEPTABLE METHODS OF PIPE SUPPORT WITHIN WALLS SHALL BE THE SUMNER SYSTEM, POSIFIX, STAKFIX, PIPEFIX, HOLDRITE OR CHANNEL.

D. PROVIDE J.R. SMITH OR APPROVED EQUAL SHOCK ABSORBERS #5005 THRU 5050 SIZE AS RECOMMENDED BY MANUFACTURER. INSTALLED ON HOT AND COLD WATER BRANCH LINES CONTAINING SINGLE LEVER FAUCETS, FLUSH VALVES OR EQUIPMENT WITH QUICK CLOSING VALVES BETWEEN THE LAST TWO FIXTURES AS SHOWN ON THE CONTRACT DRAWINGS. SHOCK ABSORBERS SERVICING FIXTURES WITH FLUSH VALVES SHALL BE SECURELY ANCHORED IN THEIR VERTICAL POSITION.

E. SANITARY WASTE LINES SHALL BE UNIFORMLY GRADED TO ELEVATIONS SHOWN. IF NO ELEVATIONS ARE GIVEN, SEWERS SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR ALL PIPING 2-1/2" IN DIAMETER AND SMALLER AND 1/8" PER FOOT FOR ALL PIPING 3" IN DIAMETER AND LARGER.

F. STORM PIPING SHALL BE SLOPED AT 1/2" 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 128 GPF TET-14-A # 32CP ECO-POWER FLUSH VALVE AND SCS34 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 CT705EN BOWL WITH 128 GPF TET-14-A # 32CP ECO-POWER FLUSH VALVE AND SCS34 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 UT445U URINAL WITH TEL 1 UA 12CP Q125 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 VALVE 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 LFT75 SUPPLY WITH 5TOP MCGUIRE 85-HWC CRD DRAIN WITH OFFSET TAILPIECE, MCGUIRE 8872 POLISHED CHROME P-TRAP. P-TRAP SHALL BE PARALLEL WITH BACK WALL. PROVIDE A TUBERO INC. HANDI LAV-GUARD INSULATION KITS MODELS IOE-2 AND IOE-2-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 BY TMS, FAUCET TOTO MODEL #TEL165-C20ECP - PROVIDED BY HJC WITH TFP3094 NOZZLE. CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. MCGUIRE LFT75 SUPPLIES WITH STOPS AND A MCGUIRE 8912C POLISHED CHROME P-TRAP (PROVIDED BY HJC). ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F (OR HIGHER AS REQUIRED BY LOCAL JURISDICTION).

P-5A KITCHEN DUMP SINK ROUGH-IN SINK BY TMS, FAUCET TOTO MODEL #TEL165-C20ECP - PROVIDED BY HJC WITH TFP3094 NOZZLE. CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. MCGUIRE LFT75 SUPPLIES WITH STOPS AND A MCGUIRE 8912C POLISHED CHROME P-TRAP (PROVIDED BY HJC).

P-6 SERVING COUNTER DROP-IN SINK ROUGH-IN SINK PROVIDED BY CLAYTON FIXTURE, FAUCET T65 EC-3100-7X7116 WITH 1.0 GPM AERATOR PROVIDED BY HJC. CONTRACTOR SHALL INSTALL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. MCGUIRE 8912C POLISHED CHROME P-TRAP AND MCGUIRE LFT7520 STOPS WITH 20" CHROME PLATED 3/4" COPPER RISERS PROVIDED BY HJC. ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F (OR HIGHER AS REQUIRED BY LOCAL JURISDICTION).

P-7 MOP SINK FAUCET: MOP SINK BASIN BUILT BY GENERAL CONTRACTOR PROVIDE T65 BRASS MODEL B-2345 FAUCET WITH OSRAMA SPRING CHECK VALVE CARTRIDGES, HOSE THREAD SPOUT OUTLET, TOP BRACE, ADJUSTABLE INLET SPREAD FROM 3" TOP 8". INCLUDE T65 BRASS MODEL 49-072 HOSE-THREAD X 3/4" FEMALE NPT CHROME ADAPTOR. NO SUBSTITUTIONS. SEE ALSO P-14.

P-8 VEGETABLE PREP SINK ROUGH-IN SINK PROVIDED BY TMS, FAUCET T65 B-01524-CR2CT WITH 0.65 GPM SPRAY HEAD BY HJC. CONTRACTOR SHALL INSTALL SINK AND MAKE FINAL CONNECTIONS. MCGUIRE LFT508 STOPS AND BRASSCRAFT 36" CHROME PLATED 1" OD COPPER RISERS MODEL 3-36AC PROVIDED BY HJC. ASSEMBLE AND MOUNT TWO HANDLE FAUCET WITH PRE-RINSE SPRAY ARM. INSTALL ADD-ON FAUCET WITH SPOUT AT BASE OF PRE-RINSE RISER. SEE K-SHEET ELEVATIONS FOR FAUCET LOCATIONS. PROVIDE 1/2" SCHED 80 PVC (PIPE AND FITTINGS) INDIRECT WASTE LINES FROM EACH SINK BASIN TO FLOOR SINK P-13B, NO P-TRAPS REQUIRED. HJC TO PROVIDE FISHER #22209 DRAINS WITH FLAT STRAINERS.

P-9 FOUR COMPARTMENT POT SINK ROUGH-IN SINK PROVIDED BY TMS, FAUCETS T65 B-01524-CR2CT & B2229-CR2 WITH 0.65 GPM SPRAY HEAD PROVIDED BY HJC. CONTRACTOR SHALL INSTALL SINK, ASSEMBLE & MOUNT TWO FAUCETS AND MAKE FINAL CONNECTIONS. MCGUIRE LFT508 STOPS AND BRASSCRAFT 36" CHROME PLATED 1" OD COPPER RISERS MODEL 3-36AC PROVIDED BY HJC. ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH PRE-RINSE SPRAY ARM. INSTALL ADD-ON FAUCET WITH SPOUT AT BASE OF PRE-RINSE RISER. ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH DOUBLE JOINT SPOUT ON OPPOSITE SIDE. SEE K-SHEET ELEVATIONS FOR FAUCET LOCATIONS. PROVIDE 1/2" SCHED 80 PVC (PIPE AND FITTINGS) INDIRECT WASTE LINES FROM EACH SINK BASIN TO FLOOR SINK P-13B, NO P-TRAPS REQUIRED. HJC TO PROVIDE FISHER #22209 DRAINS WITH FLAT STRAINERS.

P-10 FLOOR DRAIN (3") JONES STEPHENS CORP D50-144 PVC BODY, BRONZE SPUD WITH 8" DIAMETER NICKEL BRONZE STRAINER, ALT (LRS) 210-HP-NB, (WTS) FDI03-A6-60, (ZRN) FRO6NP35-C.

P-11 WALL HYDRANT (NON-FREEZE) WOODFORD MODEL 67-C AUTOMATIC DRAINING WALL HYDRANT WITH DUAL CHECK BPP. ASSE 1032 APPROVED, WALL CLAMP, POLISHED BRASS FINISH, 1" STYLE INLET, SEE WALL HYDRANT NOTES ON 1/21 FOR WALL THICKNESS AT WALL HYDRANTS. ALT (WTS) HY-42.

P-12 FUNNEL DRAIN (3") ZURN MODEL 2N415-3N-65-4 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) FDI03-M6-F4-I, (LRS) 3510L03.

P-13A FLOOR SINK (POT SINK) ZURN MODEL Z190-KC-I-3N-I-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-I-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 2N400-XN-1-TP CLEANOUT WITH 6" SQUARE NICKEL BRONZE TOP AND TAPER THREADED BRONZE PLUG. SEE PLAN FOR SIZE. ALT (O-PIPE DIA) (WTS) CO-20XP-S, (LRS) 4053L.

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

P-16 3-WAY DIVERTER VALVE ASSEMBLY: WATTS MODEL LFB 6780 ROUGH BRASS LEAD-FREE DIVERTER BALL VALVE WITH 3/2" FIP INLET AND OUTLETS AND QUARTER TURN LEVER HANDLE. PROVIDE WITH TWO (2) FORGED BRASS 3/2" MIP X 3/4" MALE GARDEN HOSE THREAD ADAPTERS (PLUMBEST MODEL G20-003 OR EQUAL). PROVIDE WITH ONE ASSE IOI APPROVED CHROME PLATED VACUUM BREAKER (WOODFORD MODEL 34H-04 OR EQUAL). FOR INSTALLATION AT MOP SINK. SEE P-21. PROVIDE ALSO TWO 3/2" CLOSE CHROME PLATED BRASS NIPPLE AND 3/4" POLISHED CHROME 90 DEGREE ELBOW.

P-17 VACUUM RELIEF VALVE: WATTS MODEL #LFB36M, 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 SLF-60-120-NE STORAGE TYPE GAS FIRED 60 GALLON WATER HEATER, 120,000 BTU INPUT, 13 GPH RECOVERY AT 100F RISE, CONCENTRIC VENT TERMINATION KIT, BLOWER POWERED, NON-CONDENSING TYPE WITH ONE-YEAR WARRANTY. CONTRACTOR TO PROVIDE DIELECTRIC HEAT TRAP NIPPLES, A.O. SMITH B1H-50, R-HEEM G150-150, AND BRADFORD WHITE EF-601-199-3N MODELS ARE ACCEPTABLE SUBSTITUTES.

P-20 THERMOMETER: PROVIDE TRECICE MODEL BR34-04-04 3" DIAL TYPE THERMOMETER WITH BOTTOM 1/2" NPT. 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. LF1007MOT 1/2" DUAL CHECK MODULAR TYPE BACKFLOW PREVENTER MEETING ASSE IOIS AND AWWA C910-92. WHERE REQUIRED BY LOCAL AUTHORITY, USE THE RFPZ TYPE BPP SHOWN BELOW. ALT (ZRN) 112-350XL.

REDUCED PRESSURE ZONE (RPZ) TYPE: WATTS NO. LF1009M2 1/2" MODULAR TYPE WITH TEST PORTS AND INTERMEDIATE RELIEF VALVE MEETING ASSE IOIS AND AWWA C910-92. PROVIDE WATTS NO. 909-AG-C AIR GAP DEVICE. ALT (ZRN) 112-975XL2LI.

P-22 MOP SINK CHECK VALVES: T65 BRASS 1/2" MODEL B-CVVI-2 BALL CHECK.

P-23 UTILITY CONNECTION (ICE MAKER) PROVIDE A MCGUIRE MODEL LFT506SB LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET. PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BPP P-34. SEE DETAIL 3/P-21 FOR PIPING AT ICE MAKERS.

P-24 UTILITY CONNECTION (COFFEE & TEA BREWERS) PROVIDE A MCGUIRE MODEL LFT506SB LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET. PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BPP P-34.

P-25 SHOCK ABSORBER: ZURN Z1700-HOO THRU Z1700-300 AS NEEDED, SIZE AS RECOMMENDED BY MANUFACTURER. ALT (WTS) SSA + SSB, (LRS) 5005 THROUGH 5050.

P-26 FUNNEL DRAIN (3") ZURN 2N415-3N-65-4 FLOOR DRAIN W/FUNNEL. INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL. PROVIDE 8" ROUND STRAINER WITH 3.25" X 8.25" OBLONG FUNNEL. ALT (WTS) FDI03-A6-6-I, (LRS) SMITH 3510L03.

P-26A TRAP SEAL PROTECTOR: PROVENT TRAP GUARD MODEL TG3H 3" TRAP SEAL INSERT FOR INTERIOR INSTALLATION AND REPLACEMENT ACCESS THROUGH STRAINER. PROVIDE AT P-35 FLOOR DRAINS IN RESTROOMS, P-37 FLOOR DRAINS DINING ROOM, AND P-26 FUNNEL DRAINS IN KITCHEN ROOM. TRAP GUARDS TO BE USED WITH MECHANICAL TRAP PRIMERS. PROVIDE PROSET MODEL TG33-ZURN WHEN USING ZURN FLOOR FIXTURES.

P-27 WATER PRESSURE GAUGE: TRECICE MODEL 800B, 2-1/2" ROUND, BOTTOM OUTLET WITH 1/4" NPT. 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: FILTERED WATER FAUCETS: T65 B-02226-CR-063X (KITCHEN FAUCET) & T65 B-0599-CR (DRIVE-THRU FAUCET). 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 1082 APPROVED AND 36" DEPTH OF BURY.

P-32 DUMPSTER PAD DRAIN: J.B. SMITH FIGURE NO. 2280003 3" FLOOR DRAIN WITH 1/2" HINGED CAST IRON SLOTTED GRATE AND SEDIMENT BUCKET. PROVIDED AND INSTALLED BY SITE CONTRACTOR. ALT (ZRN) 2560-3N-1.

P-33 TRAP PRIMER (MECHANICAL TYPE) PRECISION PRODUCTS PR-500. PROVIDE DISTRIBUTION LINE WHERE SERVING MULTIPLE DRAINS. PROVIDE SCREWDRIVER STOP AT PRIMER INLET. ALT (WTS) TP-300A-DR. DO NOT USE UNLESS REQUIRED BY LOCAL AUTHORITY.

P-34 DISPENSER BACKFLOW PREVENTER: WATTS MODEL #M17R122D ASSE IO24 RATED WITH 1/2" FIP INLET AND OUTLET, DUAL CHECK TYPE. PROVIDE 1/2" DIA X 2" LONG CHROME NIPPLE AT BPP INLET AND OUTLET. PROVIDE T65 BRASS MODEL B-010 CHROME WALL BRACKET.

P-35 FLOOR DRAIN (3") JONES STEPHENS CORP D50-064 PVC BODY, BRONZE SPUD 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 SPUD WITH 8" DIAMETER NICKEL BRONZE STRAINER. ALT (LRS) 210-HP-NB, (WTS) FDI03-A6-60, (ZRN) FRO6NP35-C.

P-37 FLOOR DRAIN (3") JONES STEPHENS CORP D50-076 PVC BODY, BRONZE SPUD WITH 6" SQUARE NICKEL BRONZE STRAINER. PROVIDE 1/2" TRAP PRIMER CONNECTION FOR DINING ROOM DRAINS. ALT (WTS) FDI03-M6-F-50, (ZRN) FSO6NP35-C.

P-38 HOT WATER CIRCULATING PUMP: TACO MODEL 008-SC71FC, 1/2" UNION CONNECTIONS, INTEGRAL FLOW CHECK, 110 VAC. ELECTRICIAN TO PROVIDE AND WIRE PLUG AND CORD, 1/2" HP, 3 GPM AT 7 FT TOTAL DYNAMIC HEAD, PROVIDE CONTROL WIRING AND HONEYWELL MODEL L6006C I10 VAC AQUA-STAT, WITH ADJUSTABLE SETPOINT, MOUNTED DIRECTLY ON PIPE. SET SHUT-OFF TEMPERATURE AT 130 DEG F.

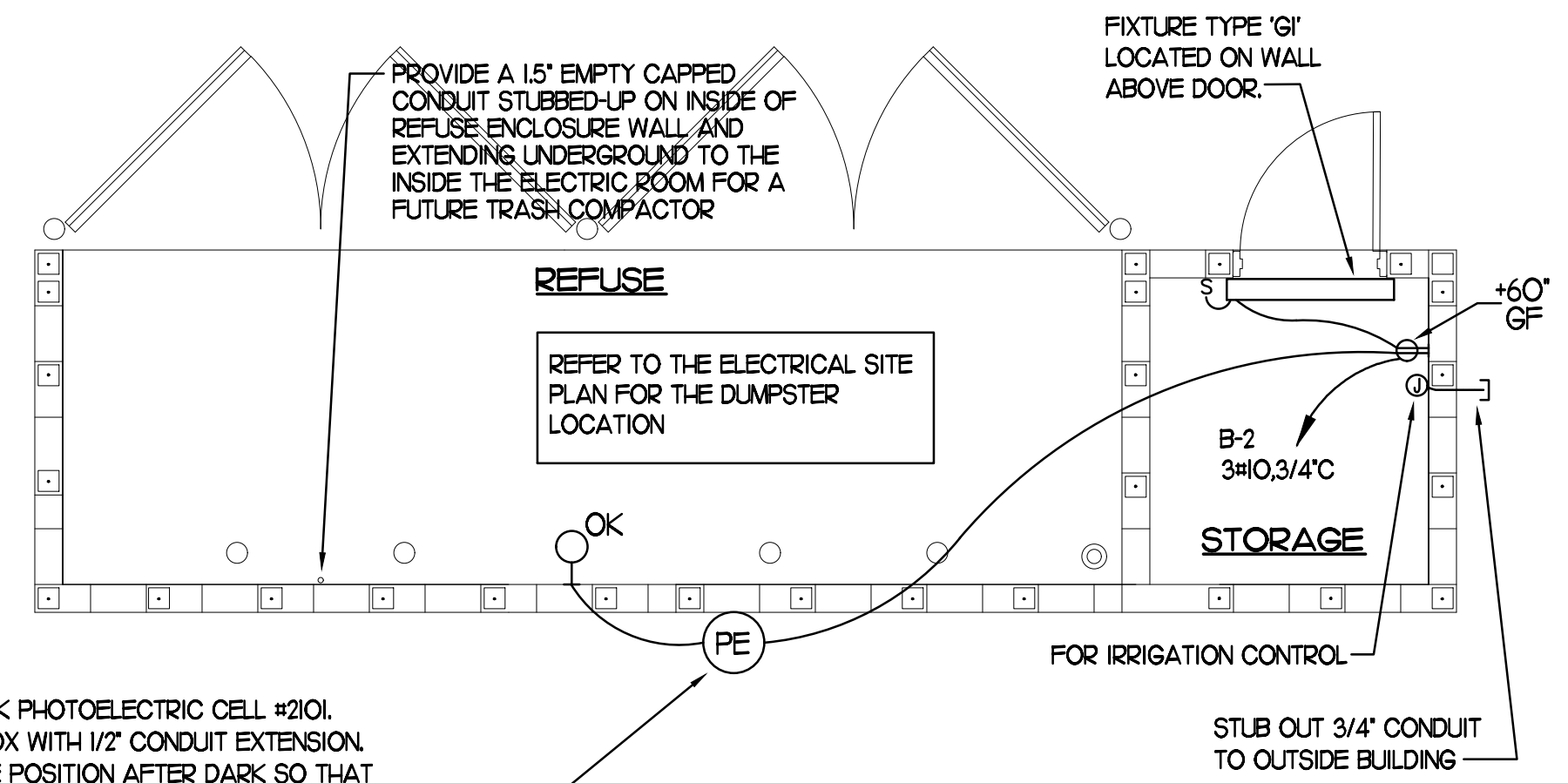
# 1 KITCHEN EQUIPMENT SCHEDULE - CHICK-FIL-A REMODEL Store #2288

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) RECEPTACATOG# NO.	Wire/Condu it 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	IG5362RN (ORANGE)	1-IG		
	182	RECEIPT PRINTER	120	1	2	0.18	5-20R	5-20R	IG5362RN (ORANGE)	1-IG		
	182L	LABEL PRINTER	120	1	2	0.18	5-20R	5-20R	IG5362RN (ORANGE)	1-IG		
NOTE 5	183	ORDER MONITOR	120	1	2	0.125	5-20R	5-20R	IG5362RN (ORANGE)	1-IG		
NOTE 2 OR 5	184	IPAD	120	1	2	0.120	5-20R	5-20R	IG5362RN (ORANGE)	1-IG		
NOTE 2	190	DRIVE-THRU VIDEO MONITOR	120	1	2	0.8	5-20R	N/A	CR20	1		
NOTE 5	211b	FLY SYSTEM - KITCHEN AREA	120	1	2	0.078	5-15R	N/A	TR780W (DUPLEX)	1	CLOCK STYLE RECEPTACLE REQ'D	
	269	ANSUL FIRE SYSTEM	120	1	2		VERIFY	DIRECT	N/A	-	FED FROM CFA-T500 PANEL	
	270	ANSUL FIRE SYSTEM	120	1	2		VERIFY	DIRECT	N/A	-	FED FROM CFA-T500 PANEL	
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	15-20R	N/A	HUBBELL HBL8420	2	FURNISHED WITH ANGLE PLUG	
	300X	DOUBLE BARREL ICE DREAM	208	3	3	19.0	15-30R	N/A	HUBBELL HBL8430A	8	FURNISHED WITH ANGLE PLUG	
NOTE 2	305	TEA BREWER	120	1	2	1.650	5-20R	N/A	VG20	1		
	308	COFFEE BREWER	208	1	3	4.000	L14-30R	N/A	AHL1430R	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		
	363	HIGH-TEMP DISHWASHER	208	3	3	49.0	DIRECT	N/A	-	17	PROVIDE IN-SIGHT DISC SWITCH OR PAD-LOCK DEVICE ON BRANCH BREAKER IF ALLOWED BY AHJ PLUGS INTO DUPLEX OF ONE #380Z UNIT	
	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	5-15R	N/A	817 (SIMPLEX) CR15 (DUPLEX)	1		
	380C	ROOF MTD ICE CONDENSER	208	3	4	5.112	14.2	DIRECT	N/A	-	6	
	380Z	INTERIOR ICE MAKER	120	1	2	6.0	5-15R	N/A	817 (SIMPLEX) CR15 (DUPLEX)	1		
	380ZC	ROOF MTD ICE CONDENSER	208	3	4	21.2	DIRECT	N/A	-	12		
NOTE 2	400	REACH-IN FRY FREEZER	120	1	2	9.4	5-20R	L5-20R	VG20 / AHL520R	1		
	410	WALK-IN FREEZER DOOR HTR/LTG	120	1	2	3.3		DIRECT	-	1	REFER TO LIGHTING FLOOR PLAN	
	410	WI FREEZER CONDENSER	208	3	3	16.30		DIRECT	-	11	REQUIRES 35 AMP MOCP	
	410	WI FREEZER EVAP COIL	208	1	2	1.5		DIRECT	-	-	POWER FED FROM CONDENSER	
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) / CWL515C	1		
NOTE 5	432	REFRIGERATED WORK TABLE	120	1	2	6.3	5-20R	L5-20R	1877 (SIMPLEX) / AHL520R	1	PROVIDE TWIST LOCK PLUG IN FIELD	
NOTE 2	439	COLD RAIL	120	1	2	7.1	5-20R	N/A	VG20	1		
NOTE 2	440CT	BREADING TABLE	120	1	2	1.0	L5-15R	L5-15R	CWL515R / CWL515C	1	PROVIDE 10 FT CORD AND TWIST LOCK PLUG	
NOTE 5	441	REFRIGERATED SALAD PREP	120	1	2	9.0	L5-15R	L5-15R	CWL515R / CWL515C	1	15 AMP TWIST LOCK PLUG PROVIDED W/ EQUIP	
NOTE 2	442WCT	SINGLE UPRIGHT REFRIGERATOR	120	1	2	7.0	L5-15R	L5-15R	CWL515R / CWL515C	1	PROVIDE TWIST LOCK PLUG IN FIELD	
	444	DOUBLE DOOR THAWING CABINET	120	1	2	16.0	DIRECT	DIRECT	-	1	PROVIDE 6 FT LIQUID-TIGHT FLEX CONDUIT	
	444S	SINGLE DOOR THAWING CABINET	120	1	2	16.0	DIRECT	DIRECT	-	1	PROVIDE 6 FT LIQUID-TIGHT FLEX CONDUIT	
	449	WALK-IN COOLER LIGHTING	120	1	2	2.4		DIRECT	-	1	REFER TO LIGHTING FLOOR PLAN	
	449	WI COOLER CONDENSER	208	3	3	9.50		DIRECT	-	2	REQUIRES 15 AMP MOCP	
	449	WI COOLER EVAP COIL	208	1	2	1.0		DIRECT	-	1	POWER FED FROM CONDENSER	
NOTE 2 OR 5	500A	VERTICAL CONTACT TOASTER	120	1	2	1.800	15.0	5-20R	L5-20R	VG20 / 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) / AHCL620C	2	TWIST LOCK PLUG PROVIDED W/ EQUIP
	505V	MULTI-COOK OVEN	208	3	3	7.920	22.0	L15-30R	L15-30R	AHCL1530R / AHL1530C	9	REFER TO LIGHTING FLOOR PLAN
NOTE 3	522	OPEN FRYER - ELECTRIC	208	3	3	22.000	61.0	NOTE 3	N/A	-	22	PLUG AND CORD-SET PROVIDED W/ EQUIP
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	PLUG AND CORD-SET PROVIDED W/ EQUIP
	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	1.911	15.9	L5-20R	L5-20R	AHL520R / AHL520C	1	
NOTE 5	563D	DOUBLE SANDWICH SLIDE	120	1	2	1.090	9.13	5-20R	N/A	1877 (SIMPLEX)	1	
NOTE 5	563S	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	VG20 / 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 THERMALIZER	208	3	3	7.920	22.0	15-30R	L15-30R	AH8430N / AHL1530C	9	PROVIDE TWIST LOCK PLUG IN FIELD WHEN REQ'D
NOTE 5	600	MIXER	120	1	2	8.0	5-20R	L5-20R	VG20 / AHL520C	1	PROVIDE TWIST LOCK PLUG IN FIELD WHEN REQ'D	
NOTE 2	607	LEMON JUICER	120	1	2	1/4 HP	5-20R	N/A	VG20	1	PROVIDE GFCI DUPLEX RECEPTACLE	
	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	ON NON-SWITCHED CIRCUIT	
	672	FUTURE DIGITAL MENUBOARD	120	1	2	0.085 EA	5-20R	N/A	CR20	1	ON NON-SWITCHED CIRCUIT	
	672	FUTURE MEDIA PLAYER	120	1	2	0.156	5-20R	N/A	CR20	1	ON NON-SWITCHED CIRCUIT	
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: BRIAN.REECE@GEXPRO.COM)												
NOTE 1:	ALL SO CORD LENGTHS SHALL BE MEASURED FROM THE REAR OF THE EQUIPMENT TO THE END OF THE CORD.											
NOTE 2:	CONTRACTOR SHALL PROVIDE GROUND-FAULT PROTECTION FOR ALL 120 VOLT 15 AMP AND 20 AMP RECEPTACLES IN THE KITCHEN / FOOD PREPARATION AREAS. GROUND-FAULT PROTECTION SHALL BE PROVIDED AT THE RECEPTACLE AS A GFCI TYPE RECEPTACLE UNLESS NOTED OTHERWISE ON THE PLANS WHERE A GFCI TYPE BREAKER IS INDICATED.											
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 CORDESET 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

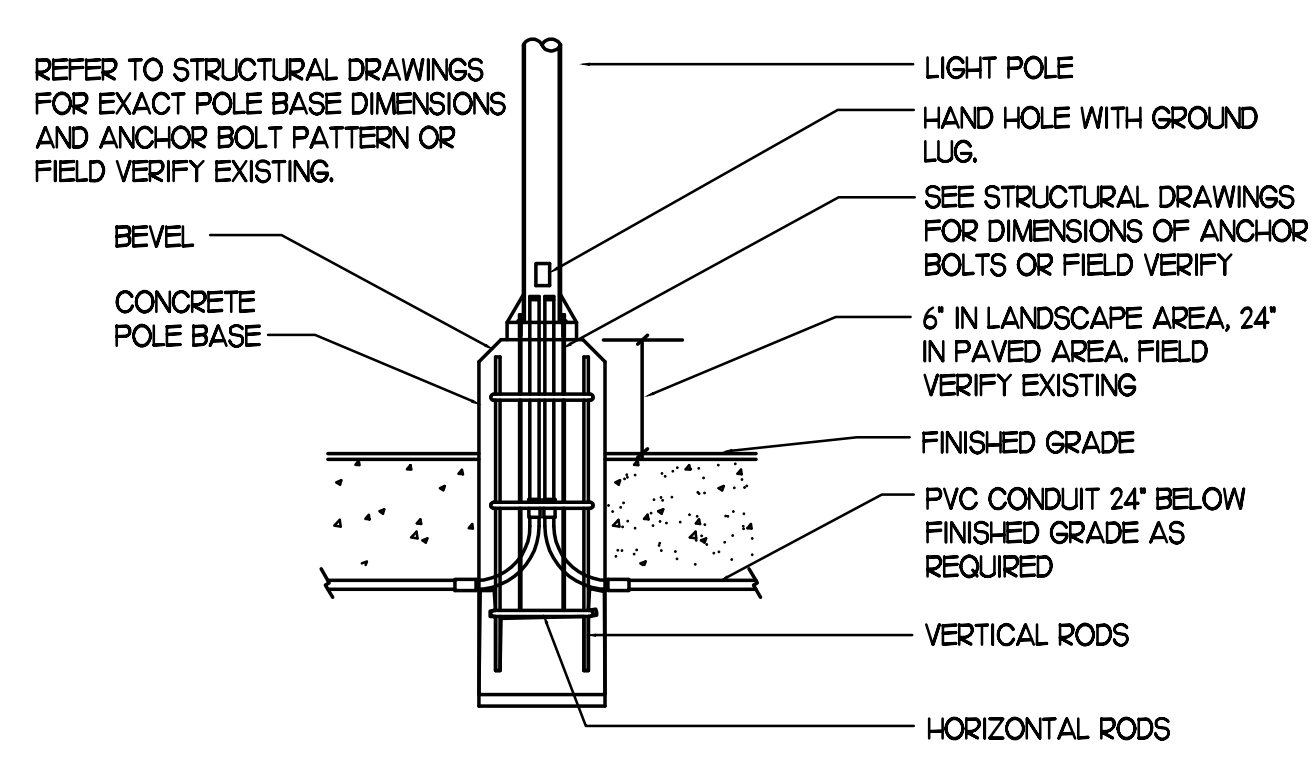
SYMBOL	DESCRIPTION	MTG HT AFF TO CL	SYMBOL	DESCRIPTION	MTG HT AFF TO CL
<b>LIGHTING FIXTURES</b>					
□	SURFACE MTD FLUORESCENT LIGHTING FIXTURE		—	CONDUIT CONCEALED ABOVE CEILING OR IN WALL	
⊞	RECESSED FLUORESCENT LIGHTING FIXTURE		—○	CIRCUIT HOMERUN TO PANELBOARD WITH MINIMUM 2#12, #12S, 3/4" C	
○	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		—MC	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		<b>DISTRIBUTION EQUIPMENT</b>		
⊙	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/FUSE 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"
<b>WIRING DEVICES</b>					
⊙	120 VOLT DUPLEX RECEPTACLE, 20 AMPS UON	18"	—	TRANSFORMER, PROVIDE SECONDARY GROUNDING PER NEC	6'-6"
⊙	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	⊞	ENCLOSED CIRCUIT BREAKER, SIZE AND TYPE AS NOTED (AMPS/POLES/ENCLOSURE) NEMA 1 ENCLOSURE IF NOT NOTED, WP NEMA 3R	6'-6"
⊙	SINGLE SPECIAL PURPOSE RECEPTACLE WITH VOLTS, AMPS, AND PHASE AS NOTED, NEMA CONFIGURATION AS REQUIRED BY EQUIPMENT	18" UON	* 6'-6" DISTANCE IS TO TOP-MOST DISCONNECTING DEVICE OR HIGHEST POSITION OF OPERATING HANDLE OF DISCONNECTING DEVICE		
⊙	RECEPTACLE MOUNTED ON CORD DROP, 120 VOLT, 20 AMP, UON, OUTLET BOX FLUSH WITH CEILING		<b>MISCELLANEOUS SYMBOLS</b>		
⊙	120 VOLT DUPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	GROUND	
⊙	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	MOTOR	
⊙	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	EXHAUST FAN MOTOR	
⊙	120 VOLT QUADRAPLEX AT SPECIAL MOUNTING HEIGHT, 20 AMPS UON	44"	⊞	JUNCTION BOX	
⊙	120 VOLT DUPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	CONDUIT AND WIRE MARK NUMBER, REFER TO CONDUCTORS AND CONDUIT SCHEDULE FOR SIZE	
⊙	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	KITCHEN EQUIPMENT MARK NUMBER, REFER TO KITCHEN EQUIPMENT SCHEDULE FOR REQUIREMENTS	
⊙	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	NOTE NUMBER	
⊙	120 VOLT QUADRAPLEX AT SPECIAL MOUNTING HEIGHT, 20 AMPS UON	44"	⊞	HOOD EXTINGUISHING ANSUL PULL STATION	
⊙	120 VOLT DUPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	SMOKE DETECTORS REMOTE STATUS INDICATOR W/ 1/2" CONDUIT STUB-UP	
⊙	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	PUSH-BUTTON	
⊙	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	BELL, TYPE AS NOTED ON PLANS	
⊙	120 VOLT QUADRAPLEX AT SPECIAL MOUNTING HEIGHT, 20 AMPS UON	44"	⊞	PHOTO-ELECTRIC CELL	
⊙	120 VOLT DUPLEX RECEPTACLE, 20 AMPS UON	18"	NOTE: EACH TELEPHONE OUTLET (FLOOR OR WALL MOUNTED) SHALL BE PROVIDED WITH A 3/4" EMPTY CONDUIT, WITH PULL WIRE, TO ACCESSIBLE CEILING SPACE.		
⊙	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS UON	18"	<b>TELEPHONE</b>		
⊙	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	TELEPHONE OUTLET	18" UON
⊙	120 VOLT QUADRAPLEX AT SPECIAL MOUNTING HEIGHT, 20 AMPS UON	44"	⊞	CONDUIT	
⊙	120 VOLT DUPLEX RECEPTACLE, 20 AMPS UON	18"	⊞	TELEPHONE OUTLET AT SPECIAL MOUNTING HEIGHT	60" UON
⊙	120 VOLT QUADRAPLEX RECEPTACLE, 20 AMPS UON	18"	NOTE: EACH TELEPHONE OUTLET (FLOOR OR WALL MOUNTED) SHALL BE PROVIDED WITH A 3/4" EMPTY CONDUIT, WITH PULL WIRE, TO ACCESSIBLE CEILING SPACE.		
⊙	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS UON	18"	<b>CCTV / SECURITY SYSTEM</b>		
⊙	120 VOLT QUADRAPLEX AT SPECIAL MOUNTING HEIGHT, 20 AMPS UON	44"	⊞	CLOSED CIRCUIT TELEVISION CAMERA	
⊙	120 VOLT				



PROVIDE TORK PHOTOELECTRIC CELL #2101. MOUNT ON BOX WITH 1/2\"/>

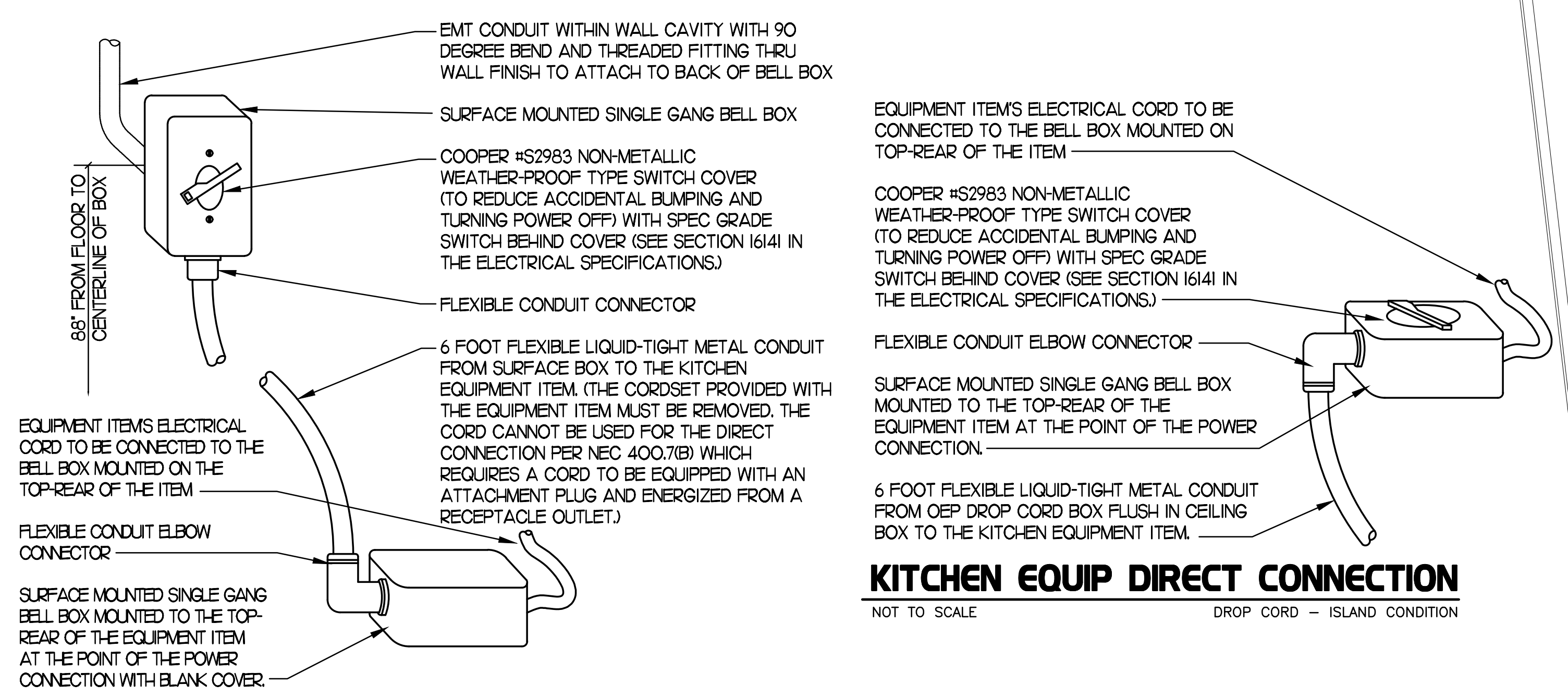
**REFUSE ENCLOSURE PLAN - ELECTRICAL**

NOT TO SCALE



**TYPICAL POLE BASE DETAIL**

NOT TO SCALE - FIELD VERIFY EXISTING POLE BASE BEFORE CONSTRUCTION



**KITCHEN EQUIP DIRECT CONNECTION**

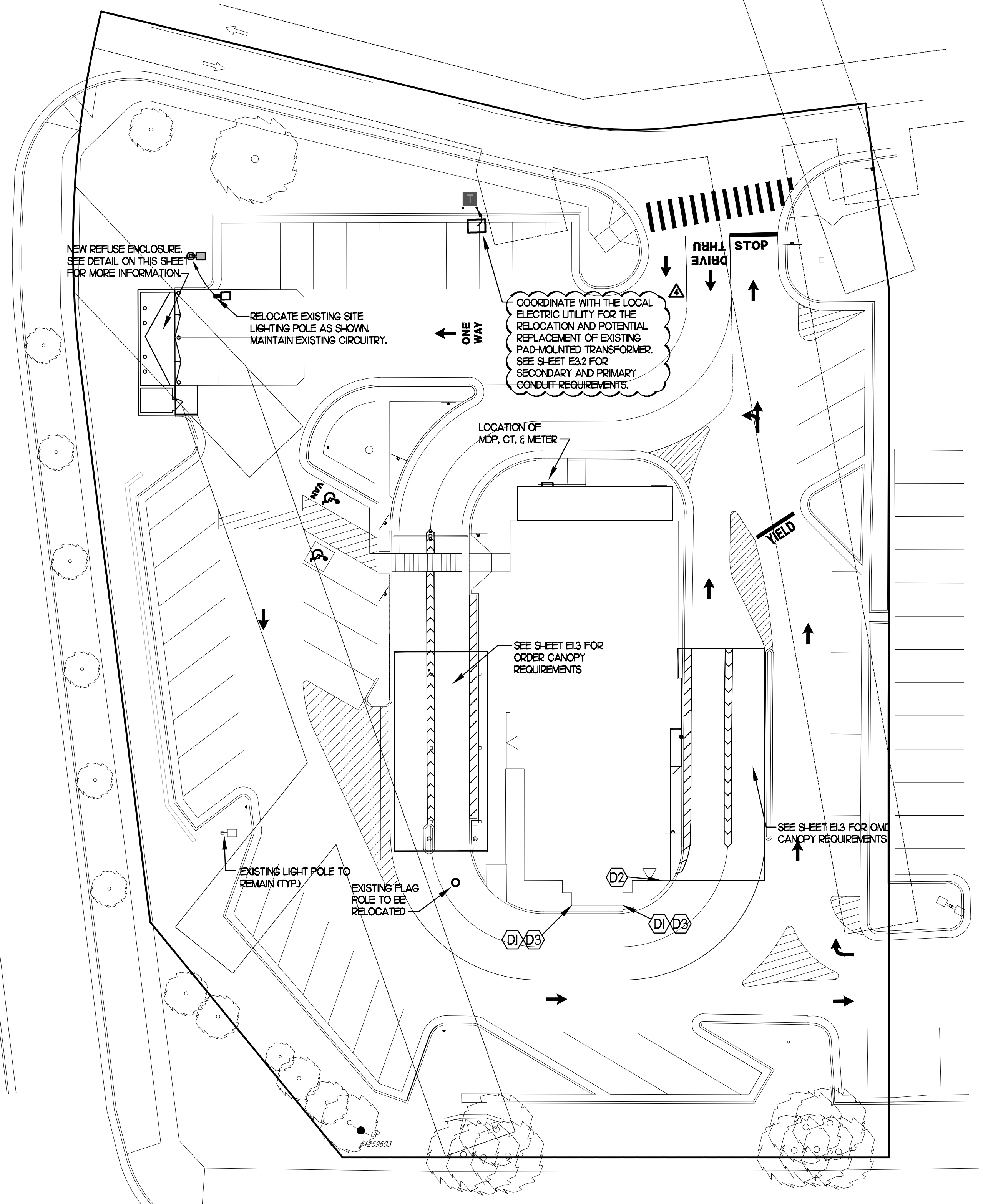
NOT TO SCALE

**KITCHEN EQUIP DIRECT CONNECTION**

NOT TO SCALE

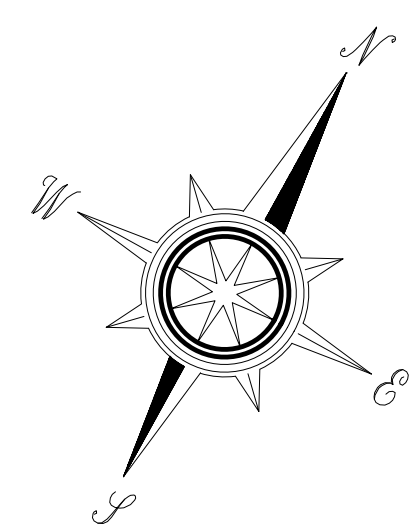
**KEYNOTES - DT CASH STATION**

- D1 LOCATION OF A 360 DEGREE BUILDING MOUNTED EXTERIOR CAMERA (BY OTHERS). PROVIDE A 3/4\"/>
- D2 PROVIDE AN EXTERIOR DUPLEX 120V, 20A RECEPTACLE AT 18\"/>
- D3 PROVIDE A JUNCTION BOX ON THE INSIDE PARAPET WALL ABOVE THE ROOF WITH A 3/4\"/>



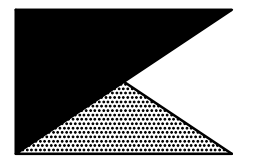
**ELECTRICAL SITE PLAN**

SCALE: 1" = 20'-0"  
 0 10' 20' 40'  
 1"=20'

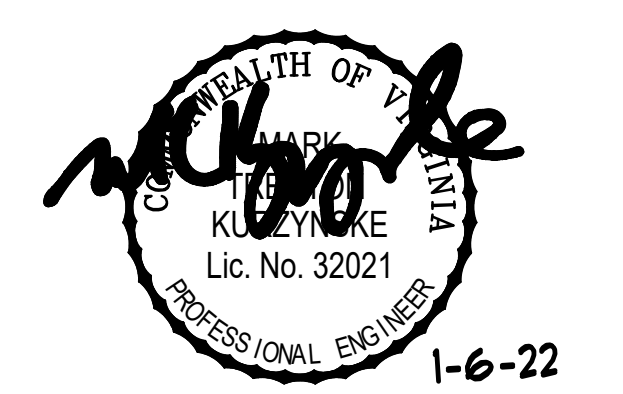


*Chick-fil-A*

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



**Kurzynske & Associates**  
 CONSULTING ENGINEERS  
 2705 Lebanon Pike - Suite One  
 Nashville, Tennessee 37214  
 Telephone: (615) 255-5203



1-6-22

**CHICK-FIL-A**  
**Rutherford Crossing**  
 112 Market Street  
 Winchester, VA 22603

**FSR#02288**

BUILDING TYPE / SIZE: S06-C  
 RELEASE: v12.20

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
4	12/17/21	Owner Revisions
CONSULTANT PROJECT # 21079.HF.R		
PRINTED FOR		PERMIT
DATE		08/28/2021
DRAWN BY		ML

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 SHEET ELECTRICAL SITE PLAN & DETAILS  
 SHEET NUMBER

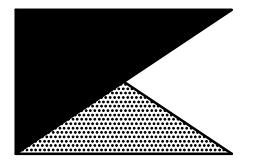
**PERMIT**

**E1.2**

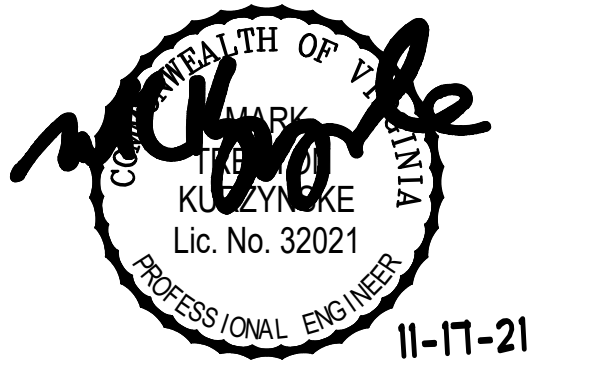


Chick-fil-A

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



Kurzynske & Associates  
CONSULTING ENGINEERS  
2705 Lebanon Pike - Suite One  
Nashville, Tennessee 37214  
Telephone: (615) 255-5203



**CHICK-FIL-A**  
Rutherford Crossing  
112 Market Street  
Winchester, VA 22603

**FSR#02288**

BUILDING TYPE / SIZE: 506-C  
RELEASE: v12.20

REVISION SCHEDULE table with columns: NO., DATE, DESCRIPTION

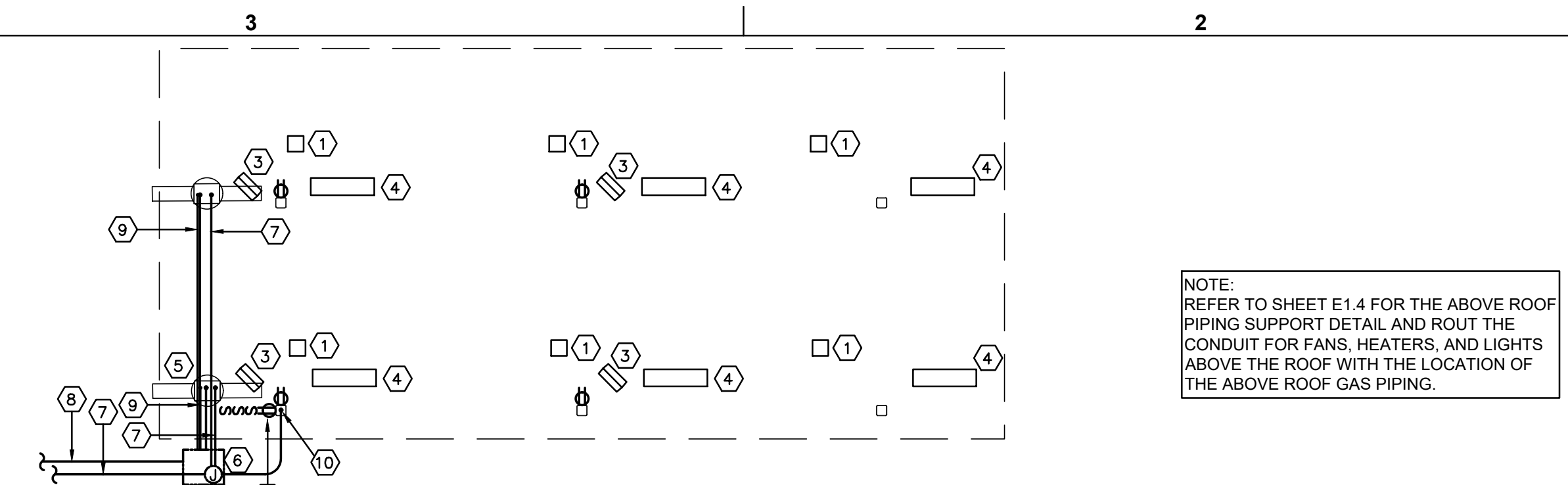
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PRINTED FOR BID  
DATE 08/28/2021  
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SHEET CANOPY PLANS AND DETAILS

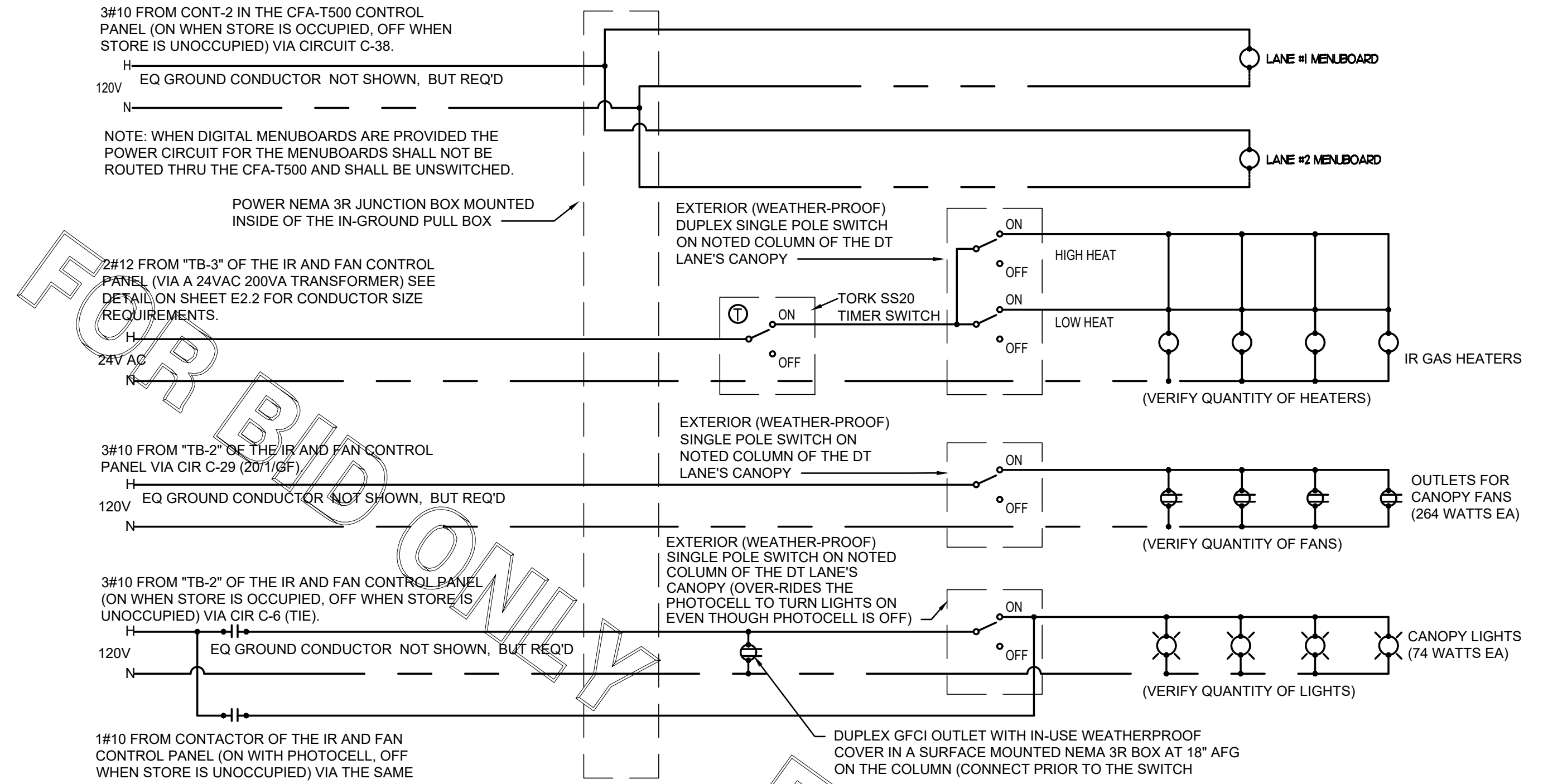
SHEET NUMBER

**E1.3**

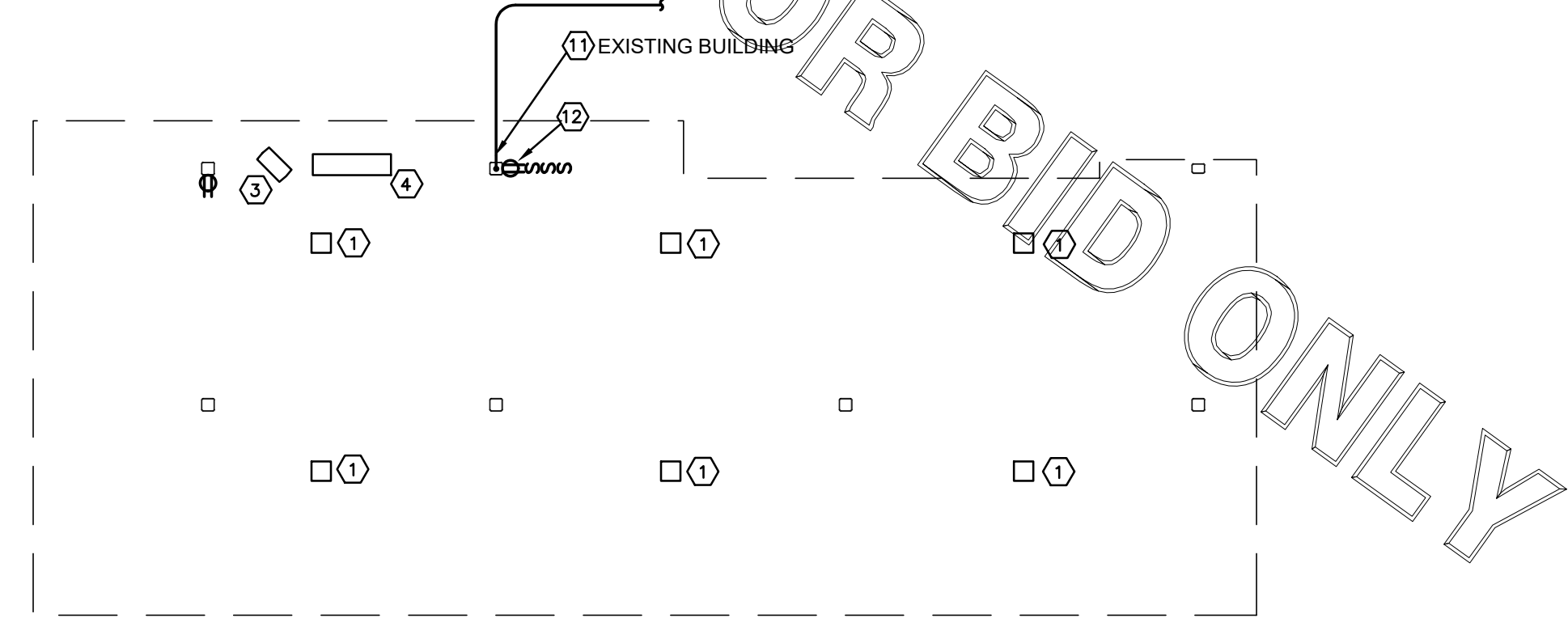


**DUAL LANE ORDER CANOPY POWER PLAN**  
NOT TO SCALE

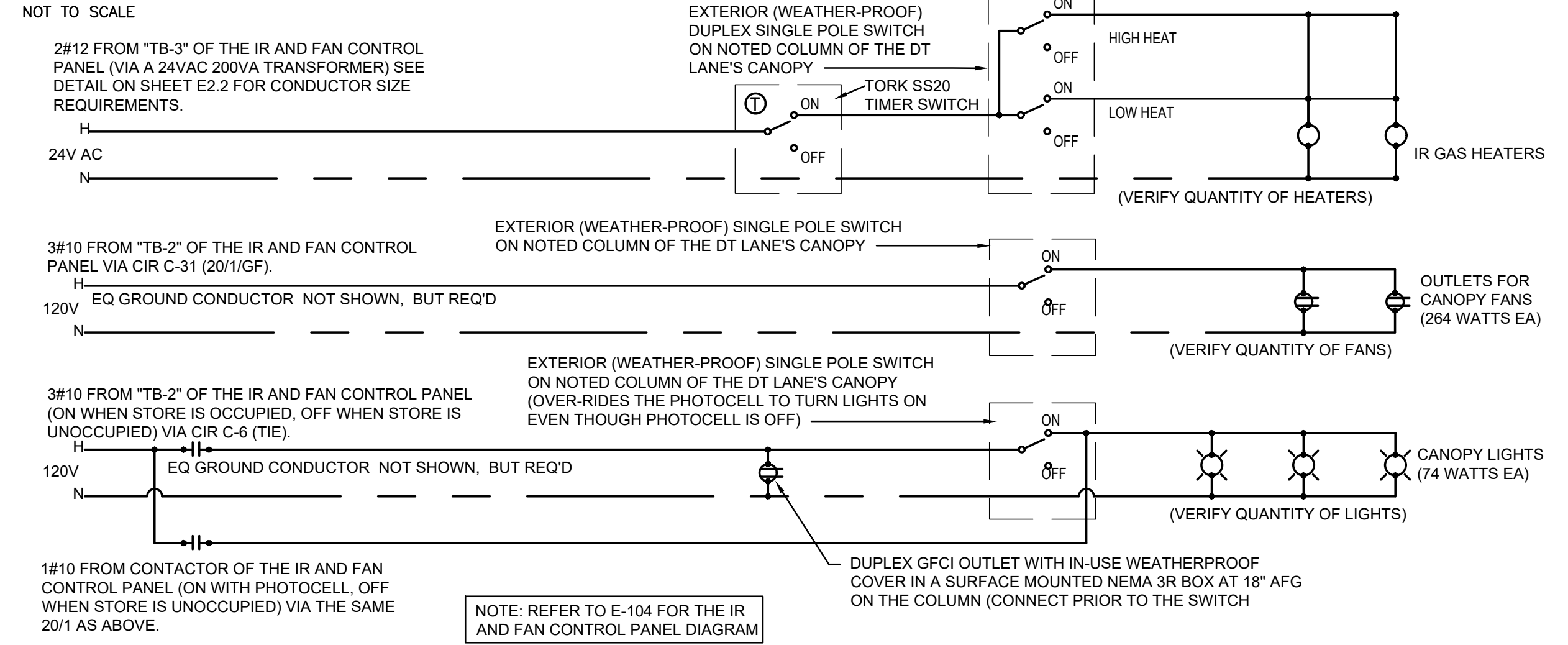
NOTE: REFER TO SHEET E1.4 FOR THE ABOVE ROOF PIPING SUPPORT DETAIL AND ROUT THE CONDUIT FOR FANS, HEATERS, AND LIGHTS ABOVE THE ROOF WITH THE LOCATION OF THE ABOVE ROOF GAS PIPING.



**ORDER CANOPY POWER WIRING SCHEMATIC**  
NOT TO SCALE



**OMD CANOPY POWER PLAN**  
NOT TO SCALE



**OMD CANOPY POWER WIRING SCHEMATIC**  
NOT TO SCALE

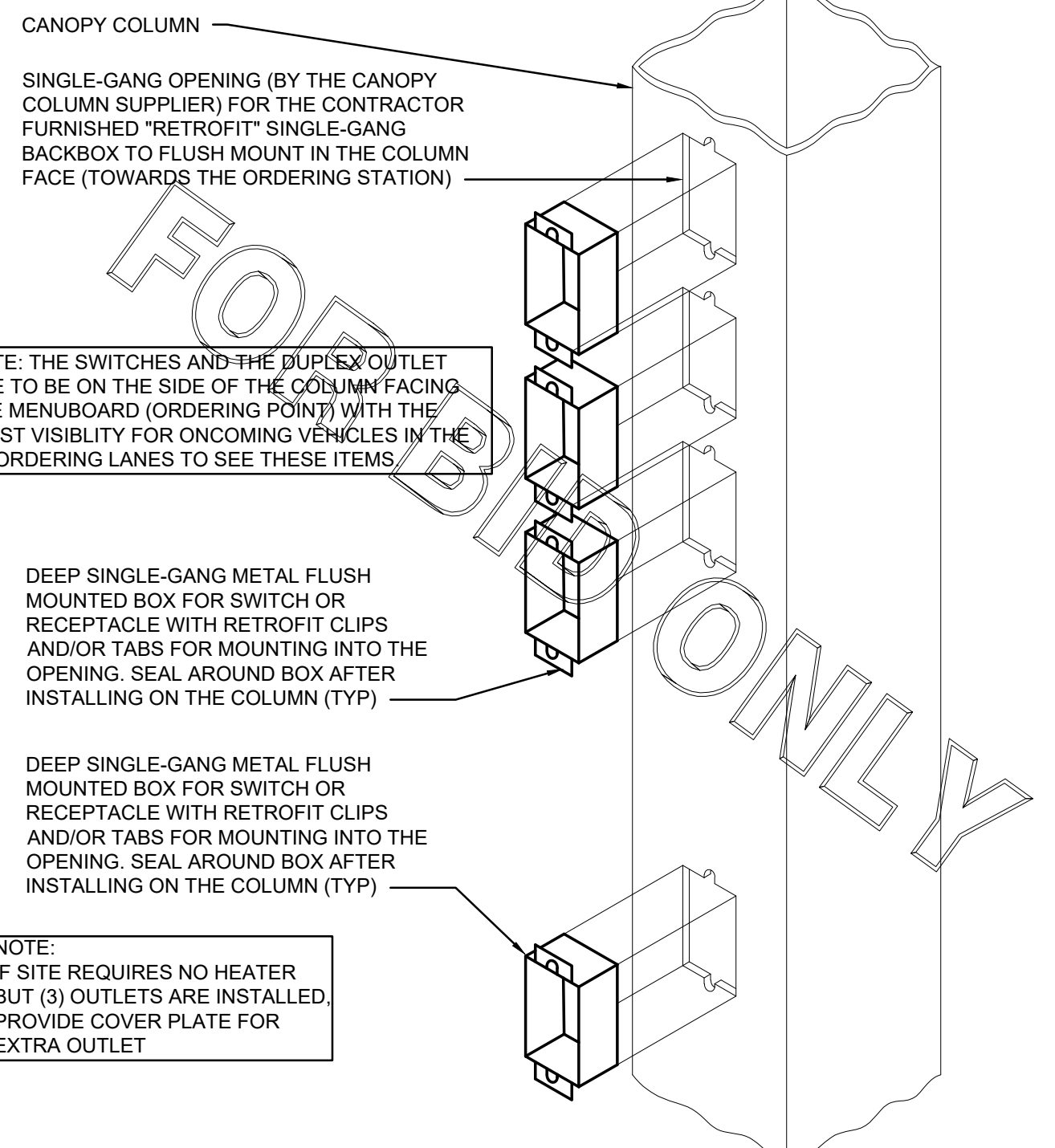
NOTE: REFER TO E-104 FOR THE IR AND FAN CONTROL PANEL DIAGRAM

**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 FANS 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 THRU 9 NOT USED.
6 NOT USED.
7 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.
8 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.
9 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 (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 FANS 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.



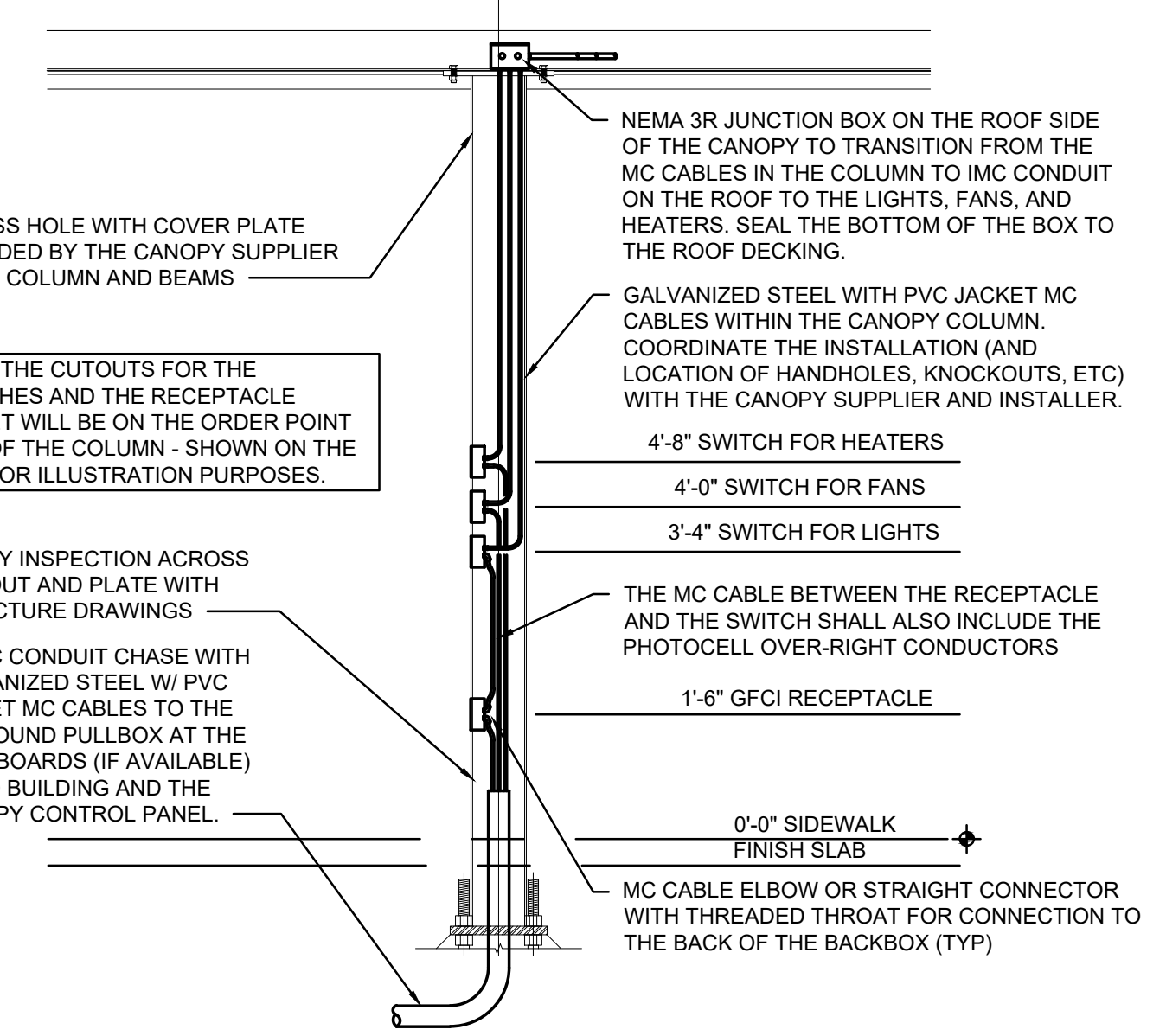
**CANOPY COLUMN ISOMETRIC**  
NOT TO SCALE

NOTE: THE SWITCHES AND THE DUPLEX OUTLET ARE TO BE ON THE SIDE OF THE COLUMN FACING THE MENUBOARD (ORDERING POINT) WITH THE LEAST VISIBILITY FOR ONCOMING VEHICLES IN THE DT ORDERING LANES TO SEE THESE ITEMS.

DEEP SINGLE-GANG METAL FLUSH MOUNTED BOX FOR SWITCH OR RECEPTACLE WITH RETROFIT CLIPS AND/OR TABS FOR MOUNTING INTO THE OPENING. SEAL AROUND BOX AFTER INSTALLING ON THE COLUMN (TYP)

DEEP SINGLE-GANG METAL FLUSH MOUNTED BOX FOR SWITCH OR RECEPTACLE WITH RETROFIT CLIPS AND/OR TABS FOR MOUNTING INTO THE OPENING. SEAL AROUND BOX AFTER INSTALLING ON THE COLUMN (TYP)

NOTE: IF SITE REQUIRES NO HEATER BUT (3) OUTLETS ARE INSTALLED, PROVIDE COVER PLATE FOR EXTRA OUTLET



**ORDER CANOPY COLUMN SECTION**  
NOT TO SCALE

NOTE: THE CUTOUTS FOR THE SWITCHES AND THE RECEPTACLE OUTLET WILL BE ON THE ORDER POINT SIDE OF THE COLUMN - SHOWN ON THE SIDE FOR ILLUSTRATION PURPOSES.

VERIFY INSPECTION ACROSS CUT-OUT AND PLATE WITH STRUCTURE DRAWINGS

3" PVC CONDUIT CHASE WITH GALVANIZED STEEL W/ PVC JACKET MC CABLES TO THE IN-GROUND PULLBOX AT THE MENUBOARDS (IF AVAILABLE) OR TO BUILDING AND THE CANOPY CONTROL PANEL.

NEMA 3R JUNCTION BOX ON THE ROOF SIDE OF THE CANOPY TO TRANSITION FROM THE MC CABLES IN THE COLUMN TO IMC CONDUIT ON THE ROOF TO THE LIGHTS, FANS, AND HEATERS. SEAL THE BOTTOM OF THE BOX TO THE ROOF DECKING.

GALVANIZED STEEL WITH PVC JACKET MC CABLES WITHIN THE CANOPY COLUMN. COORDINATE THE INSTALLATION (AND LOCATION OF HANDHOLES, KNOCKOUTS, ETC) WITH THE CANOPY SUPPLIER AND INSTALLER.

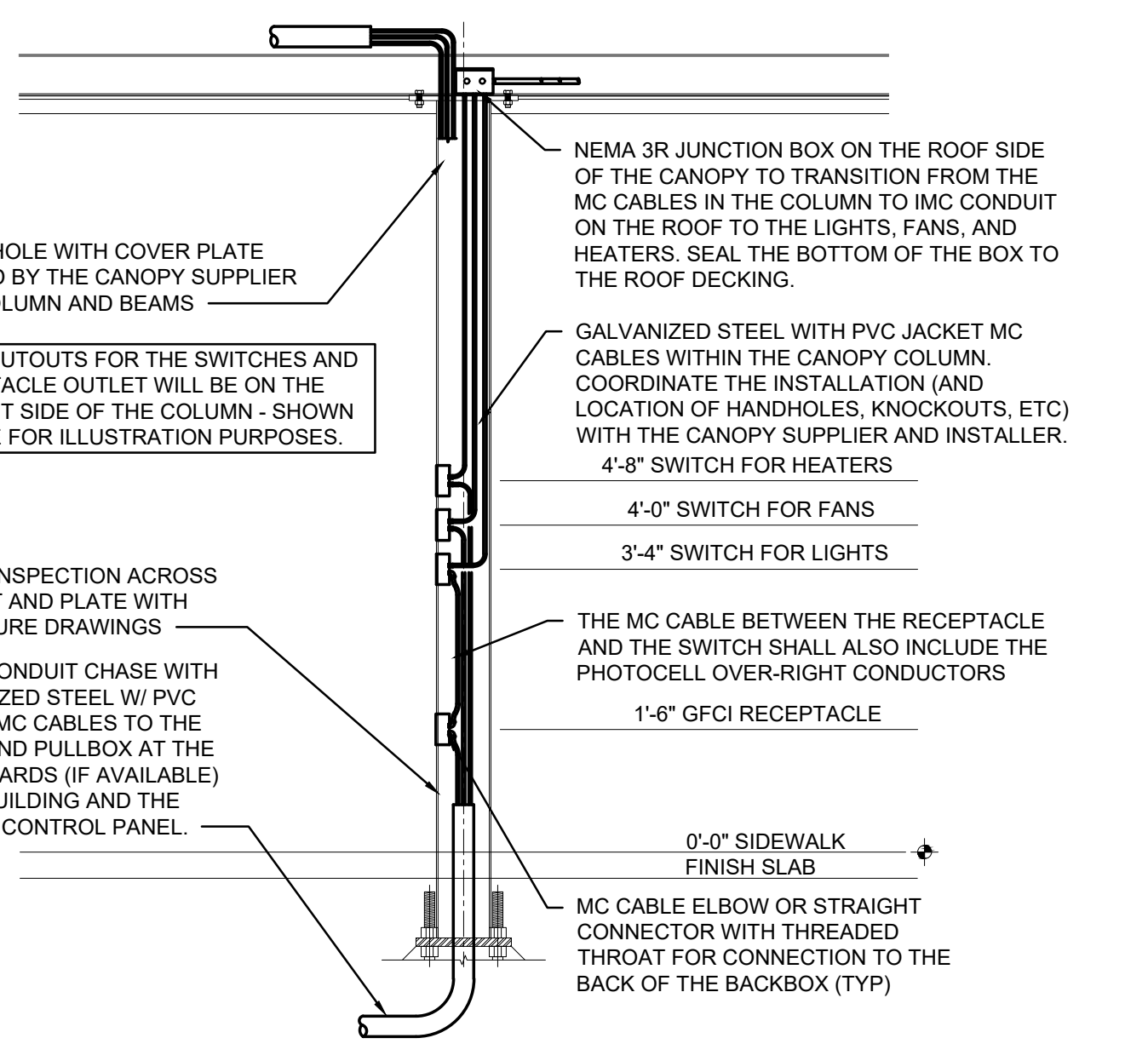
4"-8" SWITCH FOR HEATERS  
4"-0" SWITCH FOR FANS  
3"-4" SWITCH FOR LIGHTS

THE MC CABLE BETWEEN THE RECEPTACLE AND THE SWITCH SHALL ALSO INCLUDE THE PHOTOCELL OVER-RIGHT CONDUCTORS

1"-6" GFCI RECEPTACLE

0"-0" SIDEWALK FINISH SLAB

MC CABLE ELBOW OR STRAIGHT CONNECTOR WITH THREADED THROAT FOR CONNECTION TO THE BACK OF THE BACKBOX (TYP)



**OMD CANOPY COLUMN SECTION**  
NOT TO SCALE

NOTE: THE CUTOUTS FOR THE SWITCHES AND THE RECEPTACLE OUTLET WILL BE ON THE ORDER POINT SIDE OF THE COLUMN - SHOWN ON THE SIDE FOR ILLUSTRATION PURPOSES.

VERIFY INSPECTION ACROSS CUT-OUT AND PLATE WITH STRUCTURE DRAWINGS

3" PVC CONDUIT CHASE WITH GALVANIZED STEEL W/ PVC JACKET MC CABLES TO THE IN-GROUND PULLBOX AT THE MENUBOARDS (IF AVAILABLE) OR TO BUILDING AND THE CANOPY CONTROL PANEL.

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GALVANIZED STEEL WITH PVC JACKET MC CABLES WITHIN THE CANOPY COLUMN. COORDINATE THE INSTALLATION (AND LOCATION OF HANDHOLES, KNOCKOUTS, ETC) WITH THE CANOPY SUPPLIER AND INSTALLER.

4"-8" SWITCH FOR HEATERS  
4"-0" SWITCH FOR FANS  
3"-4" SWITCH FOR LIGHTS

THE MC CABLE BETWEEN THE RECEPTACLE AND THE SWITCH SHALL ALSO INCLUDE THE PHOTOCELL OVER-RIGHT CONDUCTORS

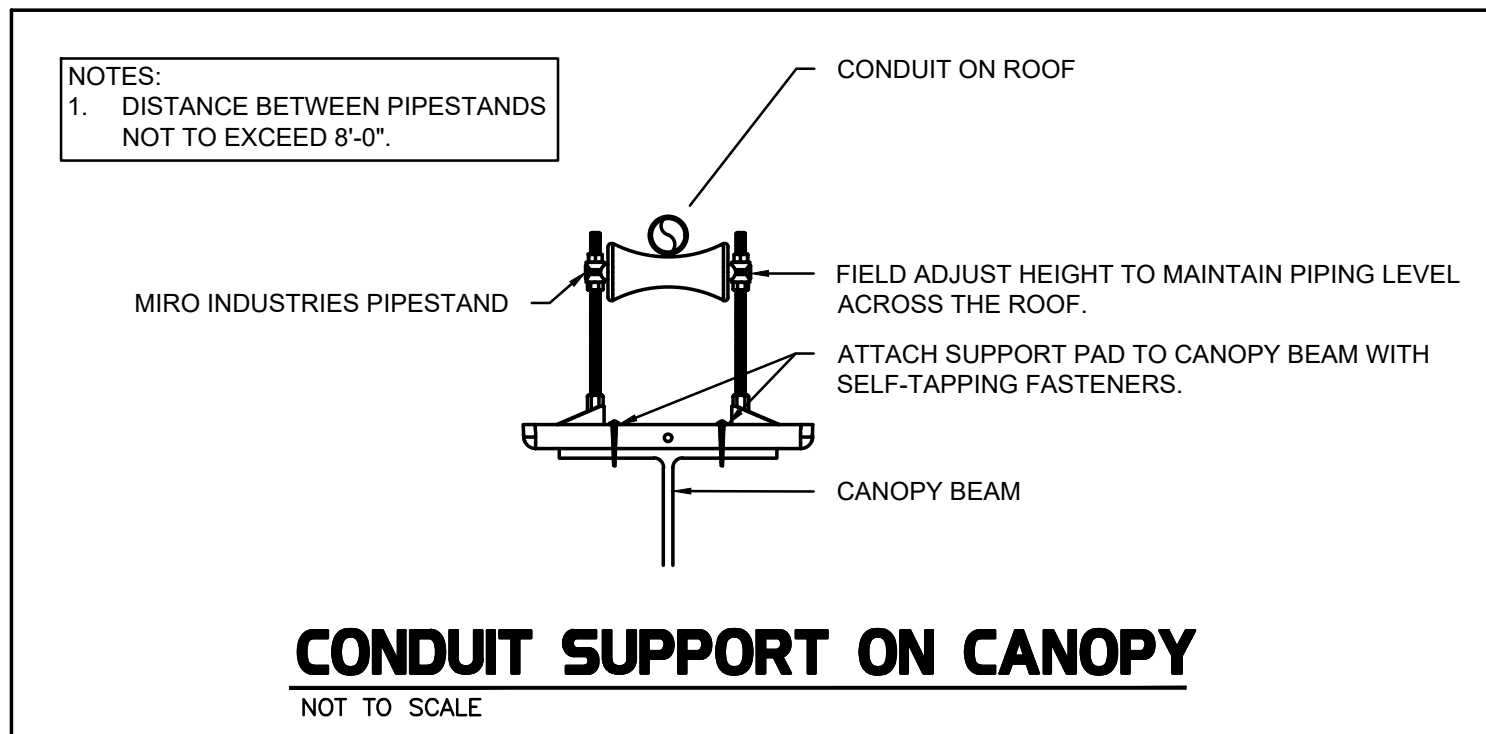
1"-6" GFCI RECEPTACLE

0"-0" SIDEWALK FINISH SLAB

MC CABLE ELBOW OR STRAIGHT CONNECTOR WITH THREADED THROAT FOR CONNECTION TO THE BACK OF THE BACKBOX (TYP)

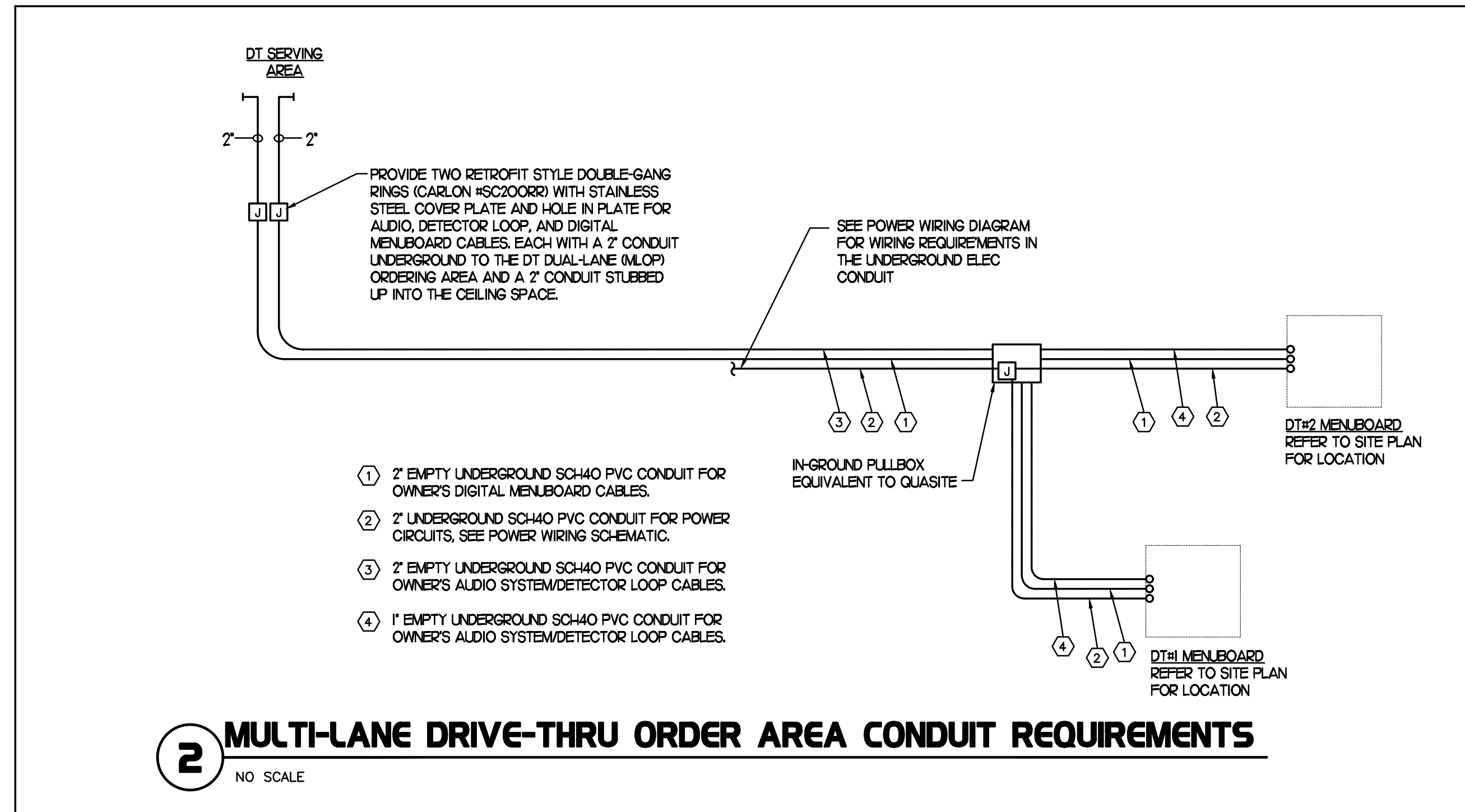
FOR BID ONLY

FOR BID ONLY



CIRCULATING FAN SCHEDULE					
MARK	CFM	RPM	HP	MODEL	MANUFACTURER
CF	5,750	1,625	1/8	U18TE-HD	TPI
REMARKS	1. ALUMINUM PADDLE WITH STEEL HUB/SPIDER PROPELLER. 2. 360° ROTATING HEAD HORIZONTALLY AND VERTICALLY. 3. OSHA COMPLIANT DOUBLE LOCKING, COATED STEEL WIRE GUARD 4. 3-SPEED, TOTALLY ENCLOSED, PERMANENTLY LUBRICATED BALL BEARING MOTOR. 5. FACTORY PRE-WIPED POWER CORD. 6. PROVIDE FACTORY WALL MOUNTING BRACKET. SEE FAN MOUNTING DETAIL ON CANOPY SHOP DRAWINGS FOR TYPICAL INSTALLATION INSTRUCTIONS. 7. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO UNDERSIDE OF CANOPY OR EXISTING OVERHANG, FACING DOWNWARD, 12" LATERALLY FROM THE FAN LOCATION. 8. REMOVE PULL CHAIN EXTENSION AT ON/OFF SWITCH IN FIELD. 9. FACTORY CERTIFIED FOR OUTDOOR INSTALLATION.				

**NATIONAL ACCOUNTS**  
1. 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.



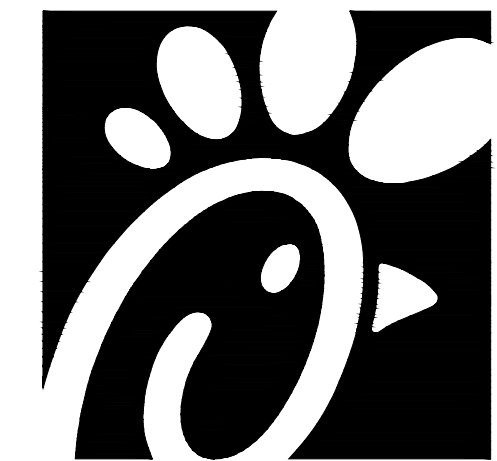
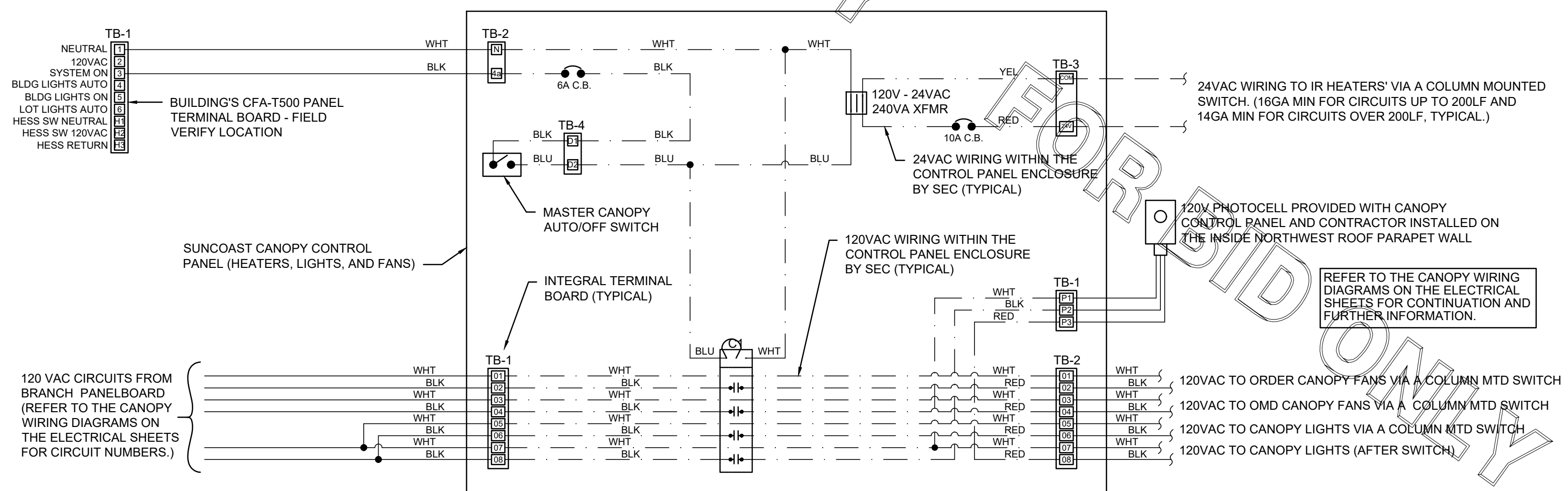
SEQUENCE OF OPERATION	
STORE SWITCH IN 'STORE OPEN' POSITION	STORE SWITCH IN 'STORE CLOSED' POSITION
A. INFRARED HEATERS ARE ENABLED.	A. INFRARED HEATERS ARE DISABLED.
B. COOLING FANS ARE ENABLED.	B. COOLING FANS ARE DISABLED.
C. LIGHTS ARE ENABLED.	C. LIGHTS ARE DISABLED.
D. MASTER AUTO/OFF SWITCH FOR IR HEATERS AND COOLING FANS PROVIDE SINGLE POINT OF ON/OFF CONTROL.	

NOTES:  
1. CONTRACTOR SHALL PURCHASE CONTROL PANEL DIRECT FROM SUNCOAST ENVIRONMENTAL CONTROLS, TELE NO 727-544-6679.  
2. COORDINATE WITH GC TO ESTABLISH LOCATION TO MOUNT PANEL IN A CONDITIONED SPACE INSIDE THE BUILDING.  
3. INFORM SUNCOAST ENVIRONMENTAL CONTROLS (SEC) ASAP AS TO WHETHER THE PANEL IS TO BE SURFACE OR FLUSH MOUNTED FOR CORRECT MOUNTING TYPE.  
4. PROVIDE LAMINATED LEGEND SHOWING NAMED LOCATIONS OF FANS AND IR HEATERS. MOUNT LEGEND AT PANEL.

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. FOR LOCATIONS WITH AN EXISTING BUILDING CFA-T500 REFER TO THE WIRING DIAGRAM IN THE EXISTING CFA-T500 SUNCOAST PANEL LOCATED IN OFFICE FOR REFERENCE.

LEGEND	
S.E.C.	SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF TEMP/FAN 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

**LABELING:**  
PROVIDE ENGRAVED LABEL AT SWITCHES WITH 1/2" HIGH WHITE LETTERS ON BLACK BACKGROUND IDENTIFYING UNIT SERVED.

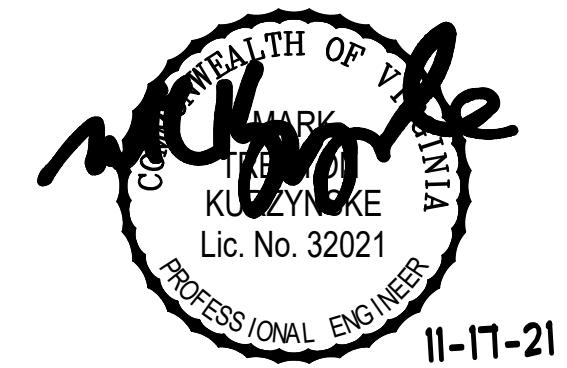


Chick-fil-A

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



Kurzynske & Associates  
CONSULTING ENGINEERS  
2705 Lebanon Pike - Suite One  
Nashville, Tennessee 37214  
Telephone: (615) 255-5203



11-17-21

**CHICK-FIL-A**  
Rutherford Crossing  
112 Market Street  
Winchester, VA 22603

**FSR#02288**

BUILDING TYPE / SIZE: S06-C  
RELEASE: v12.20

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

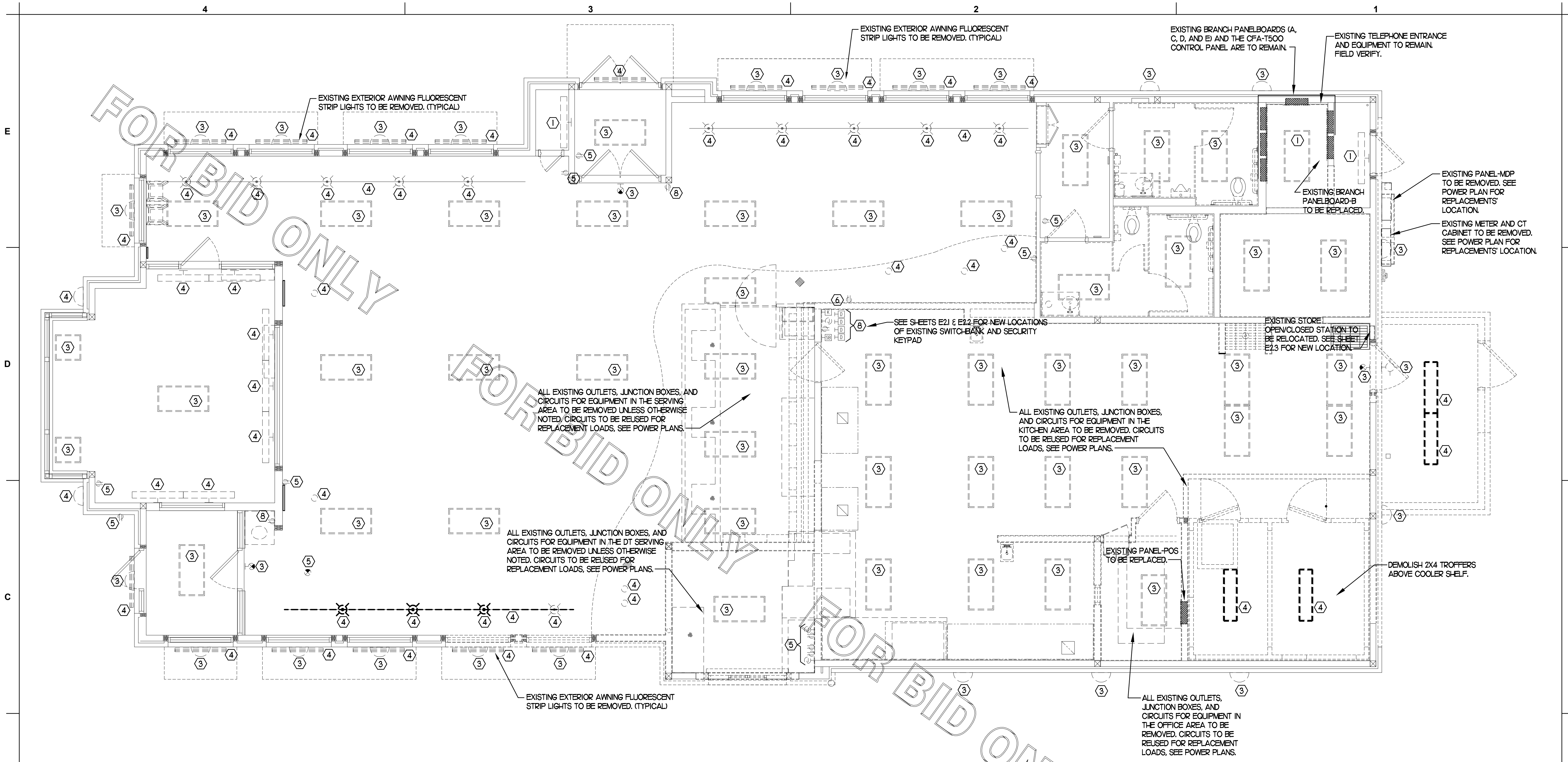
CONSULTANT PROJECT # 21079.HF.R  
PRINTED FOR BID  
DATE 08/28/2021  
DRAWN BY ML

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SHEET ORDER CANOPY CONTROL PANEL

SHEET NUMBER

**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.

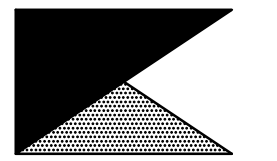
**2 KEYNOTES (APPLY TO THIS SHEET ONLY)**

- 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. 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.

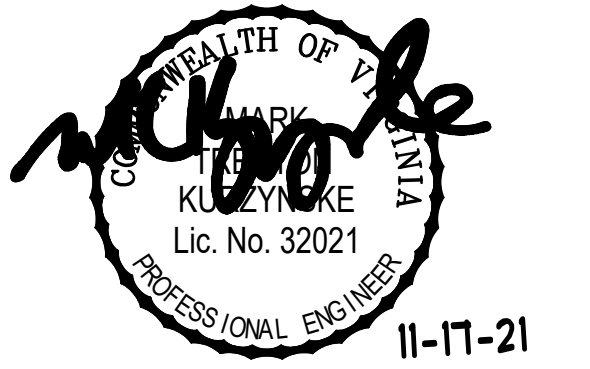


*Chick-fil-A*

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



**Kurzynske & Associates**  
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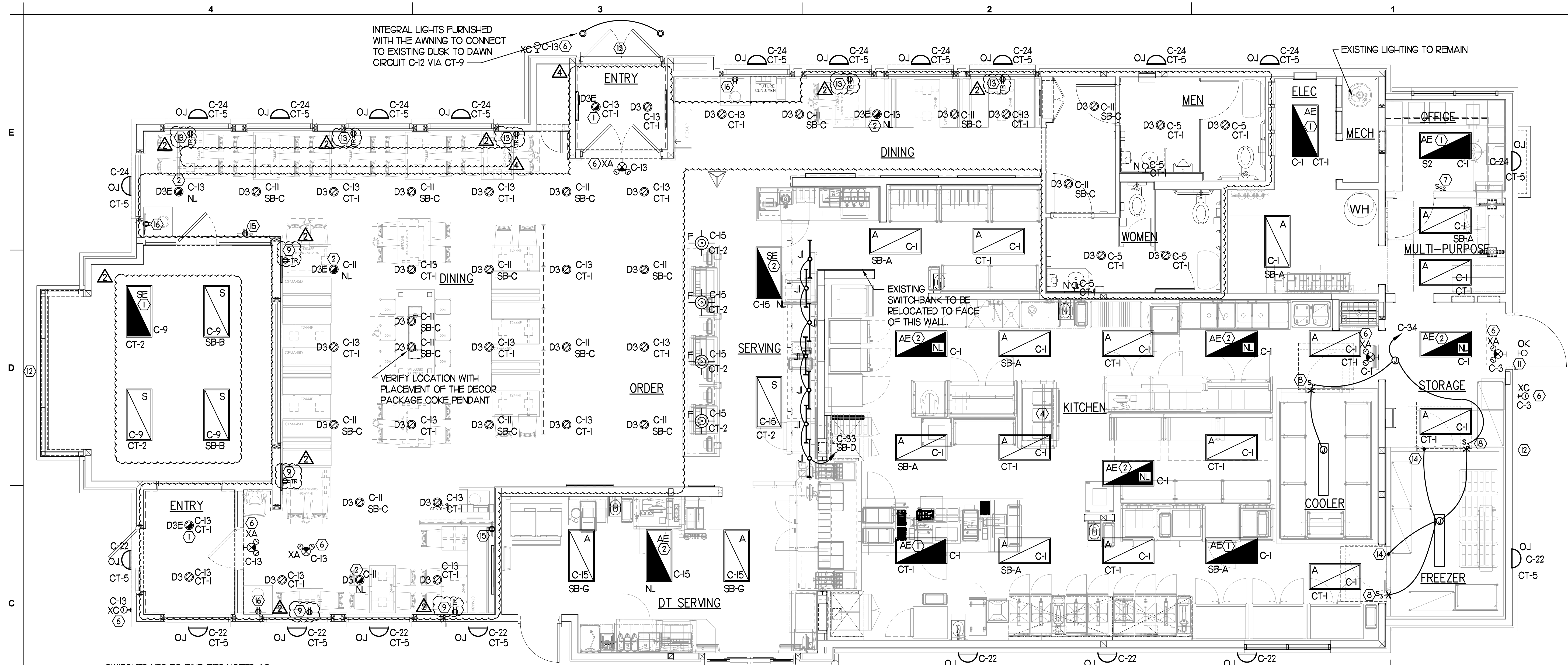
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DATE 06/28/2021  
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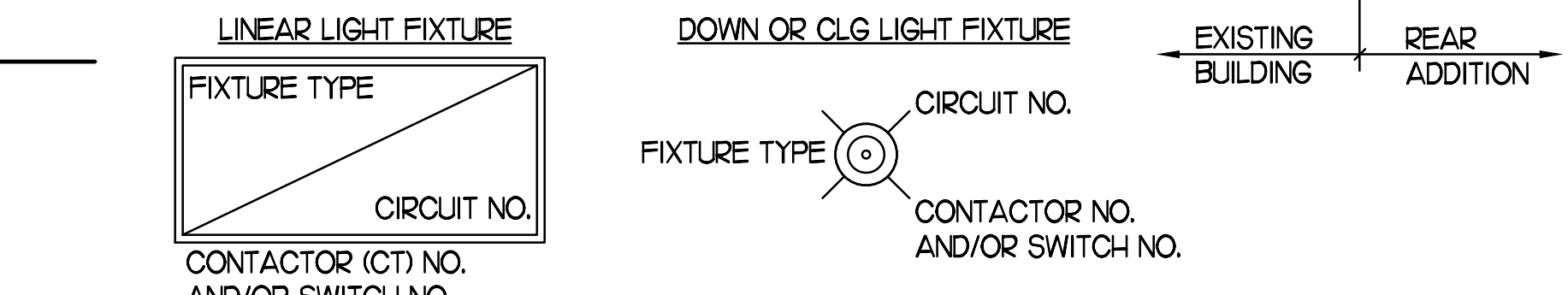
SHEET ELECTRICAL DEMOLITION PLAN

SHEET NUMBER

**E2.0**



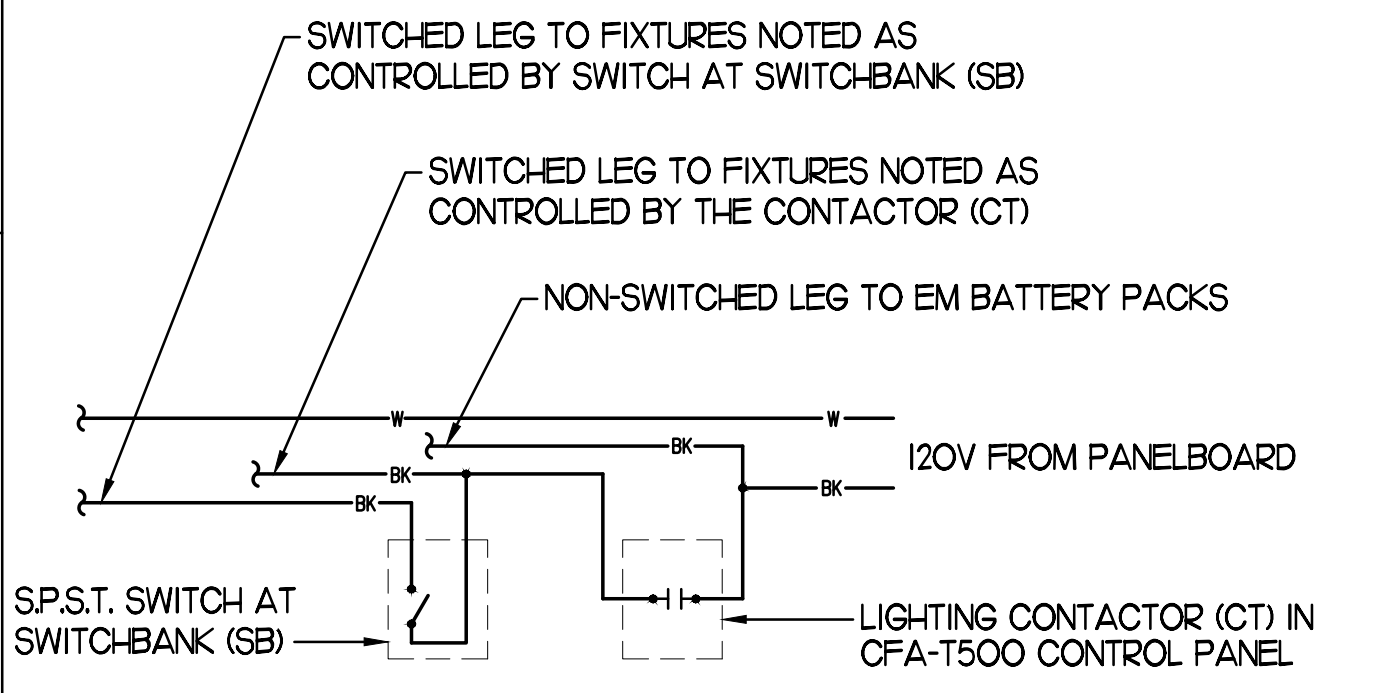
**1 LIGHTING PLAN**  
SCALE: 1/4"=1'-0"



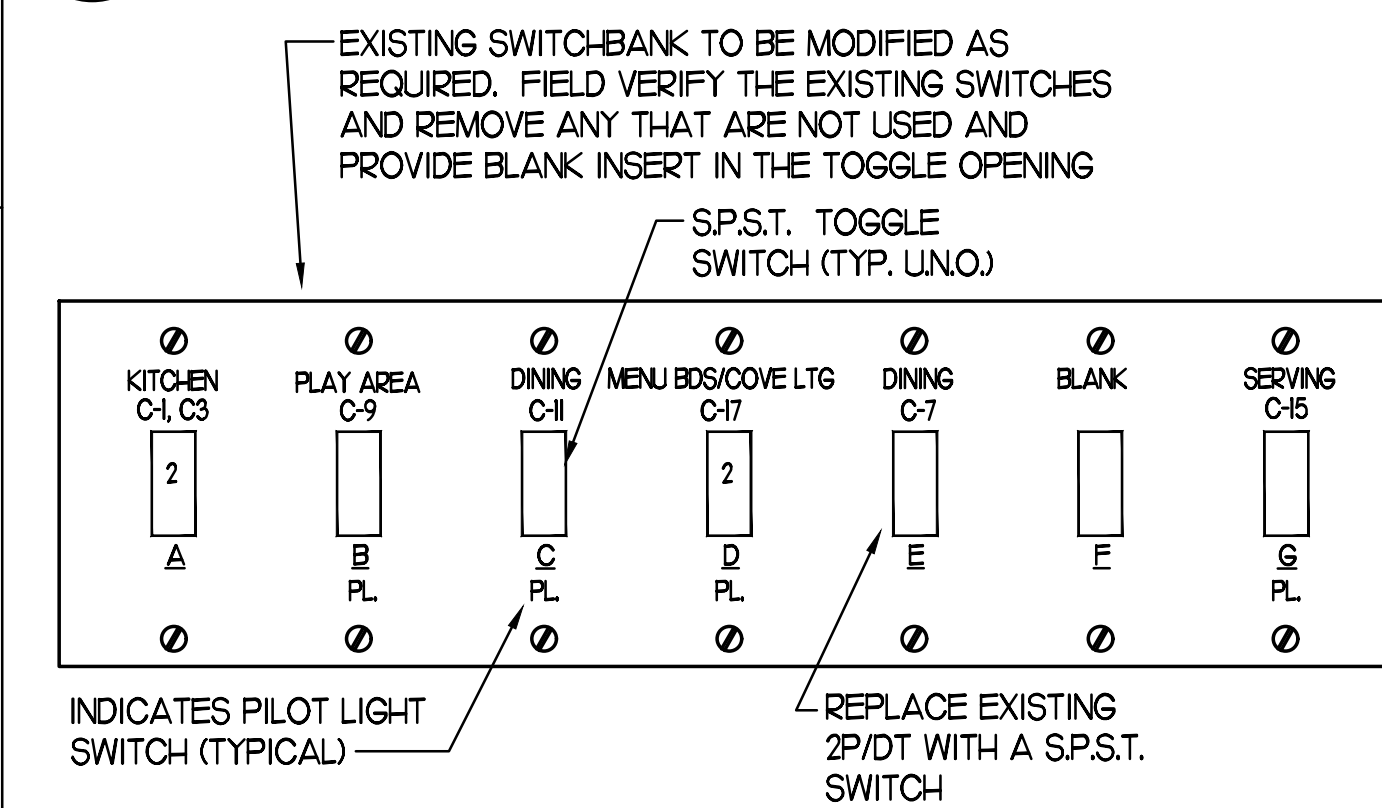
**2 LIGHT FIXTURE NOMENCLATURE DETAIL**  
NO SCALE

**4 KEYNOTES (APPLY TO THIS SHEET ONLY)**

- 1) CONNECT FIXTURE SO THAT BATTERY PACK IS NOT SWITCHED WITH LIGHTS, BUT ALL LAMPS ARE SWITCHED.
- 2) CONNECT FIXTURE SO THAT LAMP AND EMERGENCY BATTERY PACK ARE NOT SWITCHED. 'NL' ADJACENT TO FIXTURE INDICATES THAT FIXTURE SHALL BE ON 24 HOURS.
- 3) THE EXISTING EXTERIOR WALL-MOUNTED FIXTURE TO BE REPLACED. CONNECT REPLACEMENT TO THE EXISTING CIRCUIT.
- 4) PROVIDE A TYPE B1 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 SHELVING. FROM FS BOX PROVIDE AN SO CORD WITH PLUG AND CONNECT TO THE GEN RECEPTACLE.
- 5) NOT USED.
- 6) CONNECT FIXTURE TO CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS. THIS FIXTURE SHALL NOT BE SWITCHED.
- 7) PROVIDE A WALL SWITCH LINE VOLTAGE OCCUPANCY SENSOR EQUIVALENT TO SENSOR SWITCH #NSD-WH.
- 8) 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.
- 9) PROVIDE TAMPER-RESISTANT DUPLEX RECEPTACLE AT STANDARD HEIGHT. CONNECT TO CIRCUIT C-18.
- 10) COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR THE AIMING OF THE TYPE K2 FIXTURES TOWARDS THE ARTWORK ON THE WALL.
- 11) CONNECT THE "OK" FIXTURE TO C-12 VIA THE EXISTING DUSK-TO-DAWN CIRCUIT IN THE CFA-T500.
- 12) COORDINATE CONNECTION OF REPLACEMENT SIGNAGE TO EXISTING CKT.
- 13) PROVIDE TAMPER-RESISTANT DUPLEX RECEPTACLE AT STANDARD HEIGHT. CONNECT TO CIRCUIT C-20.
- 14) 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.
- 15) PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MTS LTD) IN AN ARLINGTON #D/FR2W DOUBLE-GANGS RECESSED BOX FOR THE FLY SYSTEM ITEM #21C. CL OF BOX AT 7'-1" AND CONNECT OUTLET TO CIRCUIT B-31.
- 16) PROVIDE TAMPER-RESISTANT DUPLEX RECEPTACLE AT STANDARD HEIGHT FOR FUTURE COMPACTING TRASH CAN ON A DEDICATED 20 AMP CIRCUIT. USE CIRCUITS E-1, E-3, AND E-5.



**5 TYPICAL LIGHTING CONTROL DETAIL**  
NO SCALE

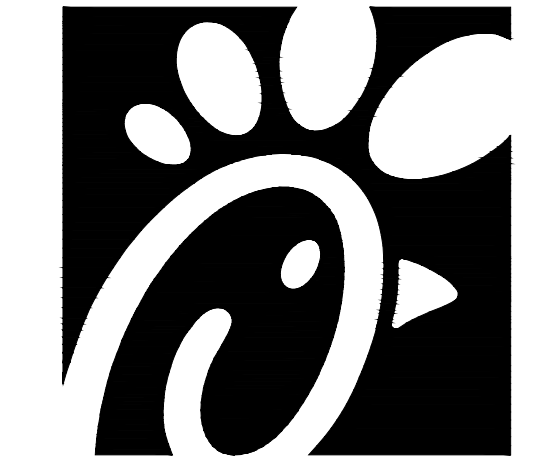


**6 EXISTING SWITCH BANK "SB" DETAIL**  
NO SCALE

**3 LIGHTING FIXTURE (LUMINAIRE) SCHEDULE - CHICK-FIL-A REMODEL Store #2288**

MARK	MANUFACTURER	CATALOG NUMBER	NO. LAMPS/TYPE	WATTS	VOLTS	MOUNTING	REMARKS
A	COOPER/METALUX	24FP6440C	INTEGRAL WITH FIXTURE	59.4	120	RECESSED	KITCHEN AREA, 2'X4' LED PANEL TROFFER, 4000K COLOR TEMP
AE	COOPER/METALUX	24FP6440C-EL14W	INTEGRAL WITH FIXTURE	59.4	120	RECESSED	SAME AS 'A' WITH EMERGENCY BATTERY PACK. SEE PLAN NOTES ABOUT LAMP SWITCHING
B1	METALUX	2V13-LD5-UNV-L840-CD1-SSL-U	INTEGRAL WITH FIXTURE	32	120	SURFACE	MOUNT LIGHT TO BTM OF OVERHEAD WIRE SHELVING WITH CORD & PLUG
D	COOPER/METALUX	24AC-LD5-55-UNV-L830-CD1-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/METALUX	24AC-LD5-55-UNV-EL14W-L830-CD1-U/DF-24-W	INTEGRAL WITH FIXTURE	49.2	120	RECESSED	SAME AS 'D' WITH EMERGENCY BATTERY PACK
D3	COOPER/HALO	HC6-20-D010-HM6-12-830-61-ND-C	INTEGRAL WITH FIXTURE	21.1	120	RECESSED	PUBLIC AREA, 6" DIAMETER LED DOWNLIGHT
D3E	COOPER/HALO	HC6-20-D010-EMV14-HM6-12-830-61-ND-C	INTEGRAL WITH FIXTURE	21.1	120	RECESSED	SAME AS 'D3' WITH EMERGENCY BATTERY PACK
F	MEYDA	30894-S (144638)	1-SATS9238	12	120	CEILING	EGG LIGHT FURNISHED WITH A 12 WATT A19-GU24 LED LAMP
G1	COOPER/METALUX	45LSTP40400D-UNV	INTEGRAL WITH FIXTURE	44	120	SURFACE	4760 LUMEN 4 FOOT LENSED LED STRIPLIGHT
J1	COOPER/METALUX	SSF-132-UNV-EB81-U	1-F028/835/XP/SS/ECO	28	120	COVE	MOUNT IN MENUBOARD COVE AND PROVIDE TUBE GUARDS ON LAMPS
N	MINKA	4531-267B	1-LED11A19/827/D	11	120	WALL	LAVATORY WALL SCONCE-SHADE POINTED DOWN W/ LED LAMP & CL ON LAVATORY
P1	MEYDA	142776	2-LED11A19/827/D	22	120	PENDANT	31" DIA PEACH BASKET PENDANT WITH BTM AT 6'-3" AFF AVB TABLE, 7'-6" OTHERWISE
S	COOPER/METALUX	24AC-LD5-55-UNV-L830-CD1-U	INTEGRAL WITH FIXTURE	49.2	120	RECESSED	DINING AREA, 2'X4' VOLUMETRIC RECESSED LED TROFFER
SE	COOPER/METALUX	24AC-LD5-55-UNV-EL14W-L830-CD1-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	APCH7R	INTEGRAL WITH FIXTURE	4.11	120	WALL	EXIT SIGN WITH BATTERY PACK AND TWO INTEGRAL ADJUSTABLE LAMPHEADS
XC	MULE LTG	MAKO-LED-ACEM-NK-IH	INTEGRAL WITH FIXTURE	13	120	WALL	EXTERIOR WALL MOUNTED EMERGENCY LIGHTING UNIT, LOCATE NEAR EGRESS DOOR
OJ	SECURITY LTG	RWSC-7L2L-3K-UD-U-DB	FURNISHED	25	120	WALL	UP/DOWN LED EXTERIOR WALL SCONCE, SEE ELEVATIONS FOR MOUNTING HEIGHT
OK	HUBBELL	LNC-SLU-3K-3-1	FURNISHED	12.9	120	WALL	LED WALLPACK W/ CENTERLINE OF FIXTURE AT 8'-0" ABV 0'-0" (FINISH FLOOR LINE)

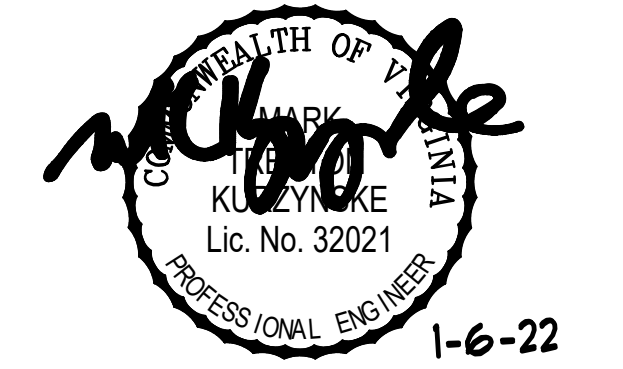
NOTES:  
 1. LUMINAIRES UTILIZING DOUBLE-ENDED LAMPS AND CONTAIN BALLASTS THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OR EXTERNAL TO EACH LUMINAIRE PER NEC 410.130(G).  
 2. THE LIGHTING FIXTURE PACKAGE IS AVAILABLE THROUGH A NATIONAL ACCOUNT PROGRAM. REFER TO THE ELECTRICAL SPECIFICATIONS SHEET, SECTION C16500 FOR VENDOR INFORMATION.  
 3. THE ASTERISK (\*) BESIDE THE FIXTURE MARK IN THE ABOVE SCHEDULE INDICATES THE FIXTURE IS A NON-PROTOTYPICAL LIGHT FIXTURE PER THE CFA NATIONAL P12 PROTOTYPE.



Chick-fil-A

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

Kurzynske & Associates  
CONSULTING ENGINEERS  
2705 Lebanon Pike - Suite One  
Nashville, Tennessee 37214  
Telephone: (615) 255-5203



**CHICK-FIL-A**  
Rutherford Crossing  
112 Market Street  
Winchester, VA 22603

**FSR#02288**

BUILDING TYPE / SIZE: S06-C  
RELEASE: v12.20

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
2	11/08/21	Plan Review Cmnts
4	12/17/21	Owner Revisions

CONSULTANT PROJECT # 21079.HF.R  
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SHEET LIGHTING PLAN

SHEET NUMBER

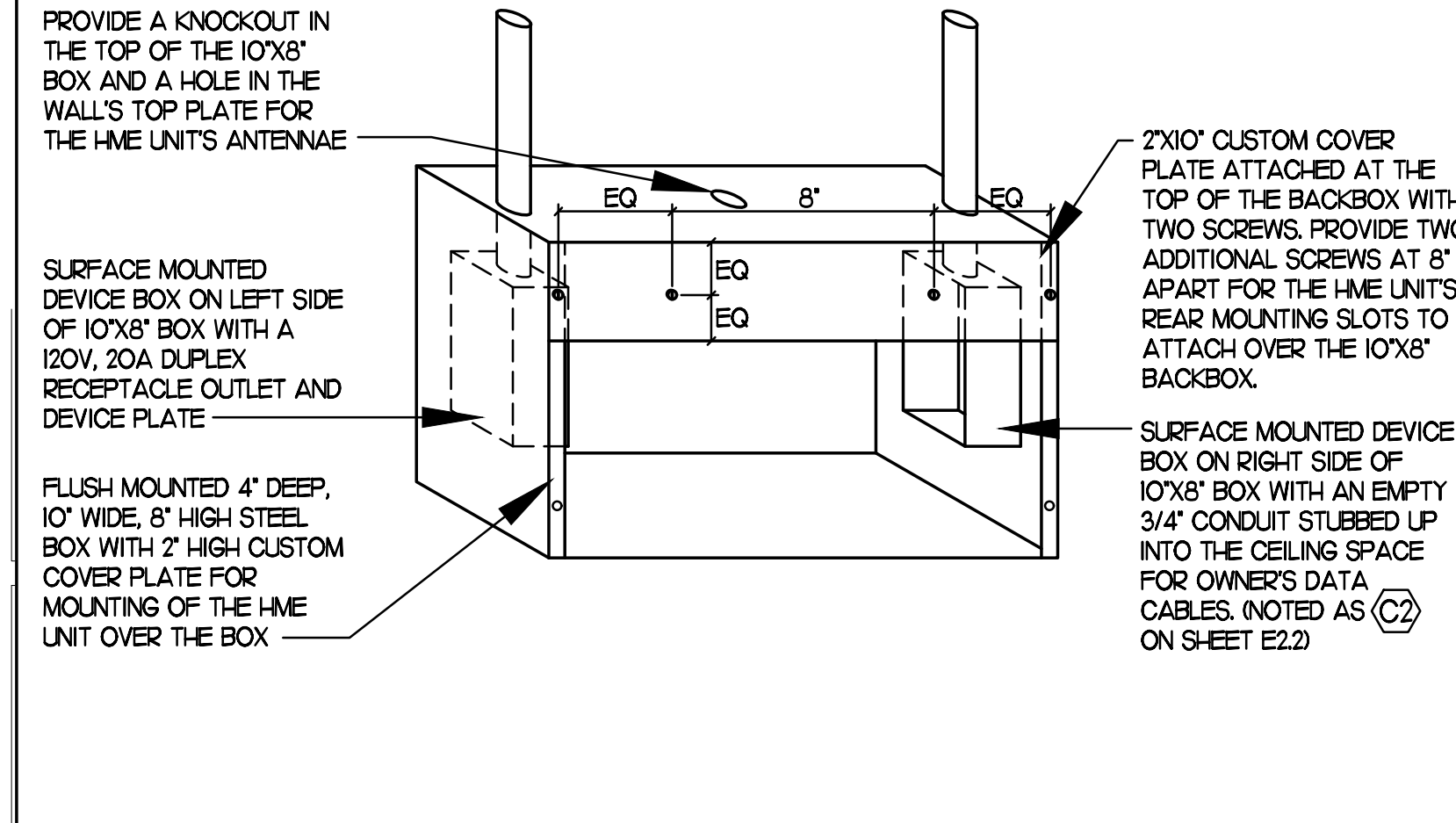
**E2.1**

**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.

TWO 2" CONDUIT FROM CEILING SPACE, IN WALL, AND TERMINATE BELOW COUNTER FOR POWER & DATA CABLES FOR THE POS TERMINAL



**3 HME UNIT'S POWER & DATA BOX DETAIL**

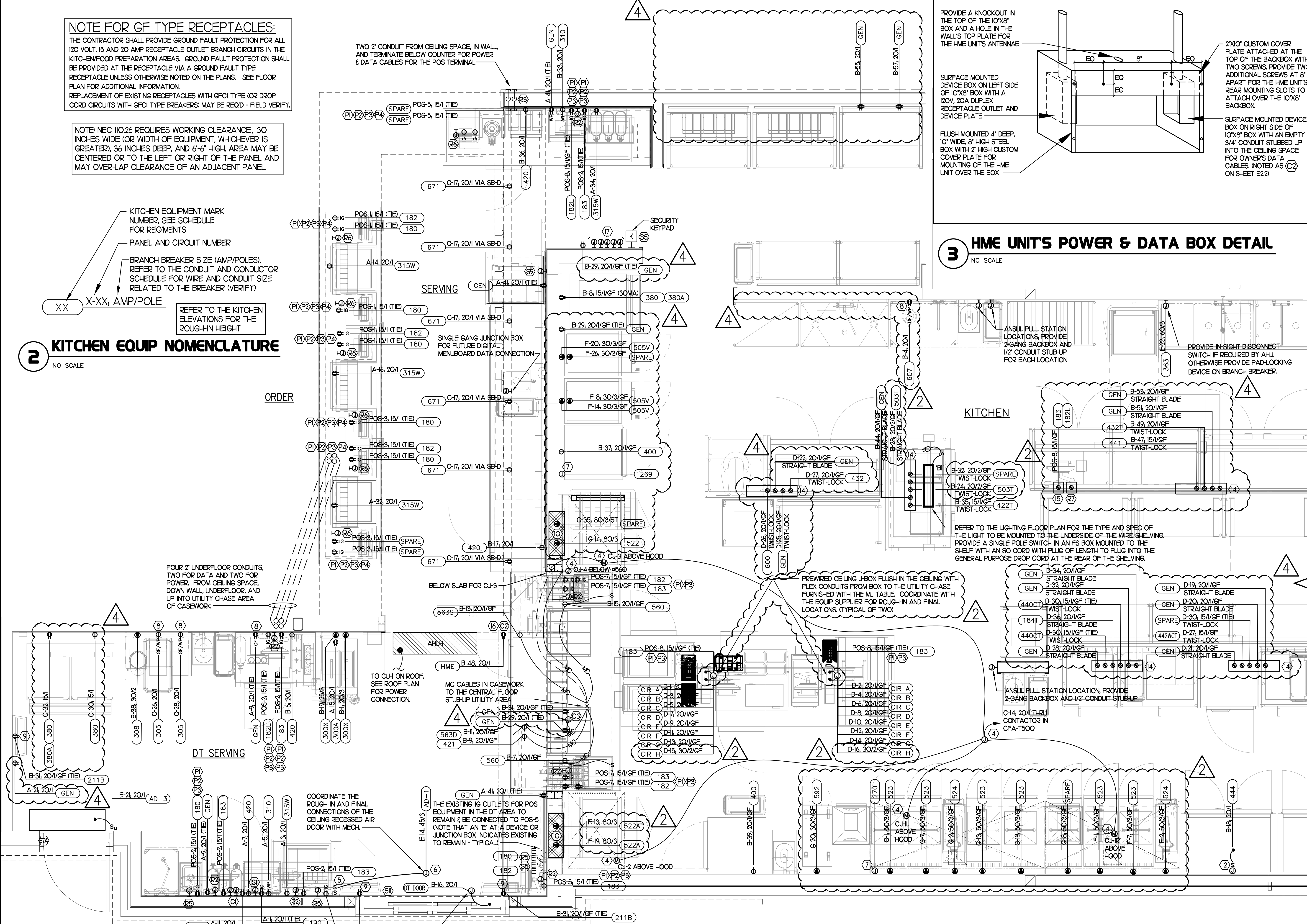
NO SCALE

**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)
- REFER TO THE KITCHEN ELEVATIONS FOR THE ROUGH-IN HEIGHT

XX X-XX, AMP/POLE



**1 LARGE SCALE KITCHEN POWER PLAN**

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

REFER TO SHEET E23 FOR THE KEYNOTES ON THIS SHEET.



Chick-fil-A

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



Kurzynske & Associates  
CONSULTING ENGINEERS  
2705 Lebanon Pike - Suite One  
Nashville, Tennessee 37214  
Telephone: (615) 255-5203



**CHICK-FIL-A**  
Rutherford Crossing  
112 Market Street  
Winchester, VA 22603

**FSR#02288**

BUILDING TYPE / SIZE: S06-C  
RELEASE: v12.20

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
2	11/08/21	Plan Review Cmnts
4	12/17/21	Owner Revisions

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SHEET  
LARGE SCALE KITCHEN  
POWER

SHEET NUMBER

**E2.2**

PERMIT

## 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 "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 UNITS 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 ANSLU SYSTEM PANEL. SEE ANSLU 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 ARLINGTON #DVR2W 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 ONE 3" ISP SERVICE CONDUIT. EXTEND WITH PULL STRING FROM THE J-BOX TO THE UTILITY SOURCE.
- 12 LOCKABLE SINGLE POLE SWITCH SHALL SERVE AS THE LOCAL "IN-SIGHT" MEANS OF DISCONNECT FOR EQUIPMENT ITEM AS NOTED. THE SWITCH SHALL BE COOPER #S2983 AND INSTALLED PER THE DETAILS ON SHEET E12.
- 13 PROVIDE A 6H X 6W X 4D J-BOX FOR THE ISP AT 6'-6" AFF AND EXTEND A 2" CONDUIT WITH PULL STRING FROM 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" 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 (15A/1P 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 #12360-1000. ASSEMBLY WILL CONSIST OF A FLUSH CEILING OUTLET BOX, TWIST-LOCK PENDANT RECEPTACLES, STRAIGHT BLADE PENDANT RECEPTACLES, CORDS, STRAIN RELIEF, AND TWIST-LOCK PLUGS. CONTACT BRIDGIT DEFRANCESCHI EMAIL: BRIDGIT95@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 #S075-U-6-6 OR EQUIVALENT.
- 15 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 1G (ORANGE) RECEPTACLE OUTLETS. OUTLET BOX TO BE MOUNTED TO THE OVER-HEAD SHELVING AT THE PRINTER AND MONITOR MOUNTING BRACKET.
- 16 RELOCATE EXISTING POWER AND CABLE CONNECTIONS FOR THE WIRELESS COMM (WIFI) SYSTEM TO THIS LOCATION (FIELD VERIFY!) SEE HME UNITS DETAIL ON SHEET E-104

## 7 KEY NOTES - SECURITY:

- S1 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.
- S2 PROVIDE 4W X 4H X 3D FLUSH JUNCTION BOX WITHOUT COVERPLATE. EXTEND 2" RIGID CONDUIT UP TO ABOVE ACCESSIBLE OFFICE CEILING AREA AND PROVIDE BUSHING ON CONDUIT END.
- S3 PROVIDE A 4W X 4H 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.
- S4 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.
- S5 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.
- S6 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.
- S7 EXTEND 1/2" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.
- S7A EXTEND 3/4" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.
- S8 EXTEND 1/2" RIGID CONDUIT FROM A POINT 3" WITHIN EITHER HINGE-SIDE DOOR VERTICAL FRAME MULLION TO ABOVE ACCESSIBLE CEILING.
- S9 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.
- S10 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 S12.
- S11 EXTEND 1/2" RIGID CONDUIT FROM A POINT 3" WITHIN STRIKE-SIDE WINDOW FRAME MULLION TO ABOVE ACCESSIBLE CEILING.
- S12 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:

- C1 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 DUAL-LANE (MLOP) ORDERING AREA AND A 2" CONDUIT STUBBED UP INTO THE CEILING SPACE.
- C2 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.
- C3 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.
- C4 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" EMPTY CONDUIT STUBBED UP INTO THE ACCESSIBLE CEILING SPACE FOR OWNER'S VOIP PHONE JACK AND CABLES.

## 5 KEY NOTES - POS:

- P1 PROVIDE ORANGE ISOLATED GROUND (IG) DUPLEX RECEPTACLE.
- P2 PROVIDE GROUND FAULT PROTECTION FOR THESE DEVICES VIA A GROUND FAULT CIRCUIT BREAKER IF LOCAL CODE DEFINES THIS A FOOD PREPARATION AREA.
- P3 USE TYPE MC CABLE FOR THE ISOLATED GROUND CIRCUIT-#12 HOT, NEUTRAL, GREEN GROUND, STRIPED 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.
- P4 THE RECEPTACLE BACKBOX AND SYSTEM CABLE JUNCTION BOX FOR ITEMS 180 AND 182 SHALL BE TURNED HORIZONTAL. REFER TO THE KITCHEN EQUIPMENT ROUGH-IN ELEVATIONS FOR ADDITIONAL INFORMATION.

## 6 CO2 DETECTOR NOTES:

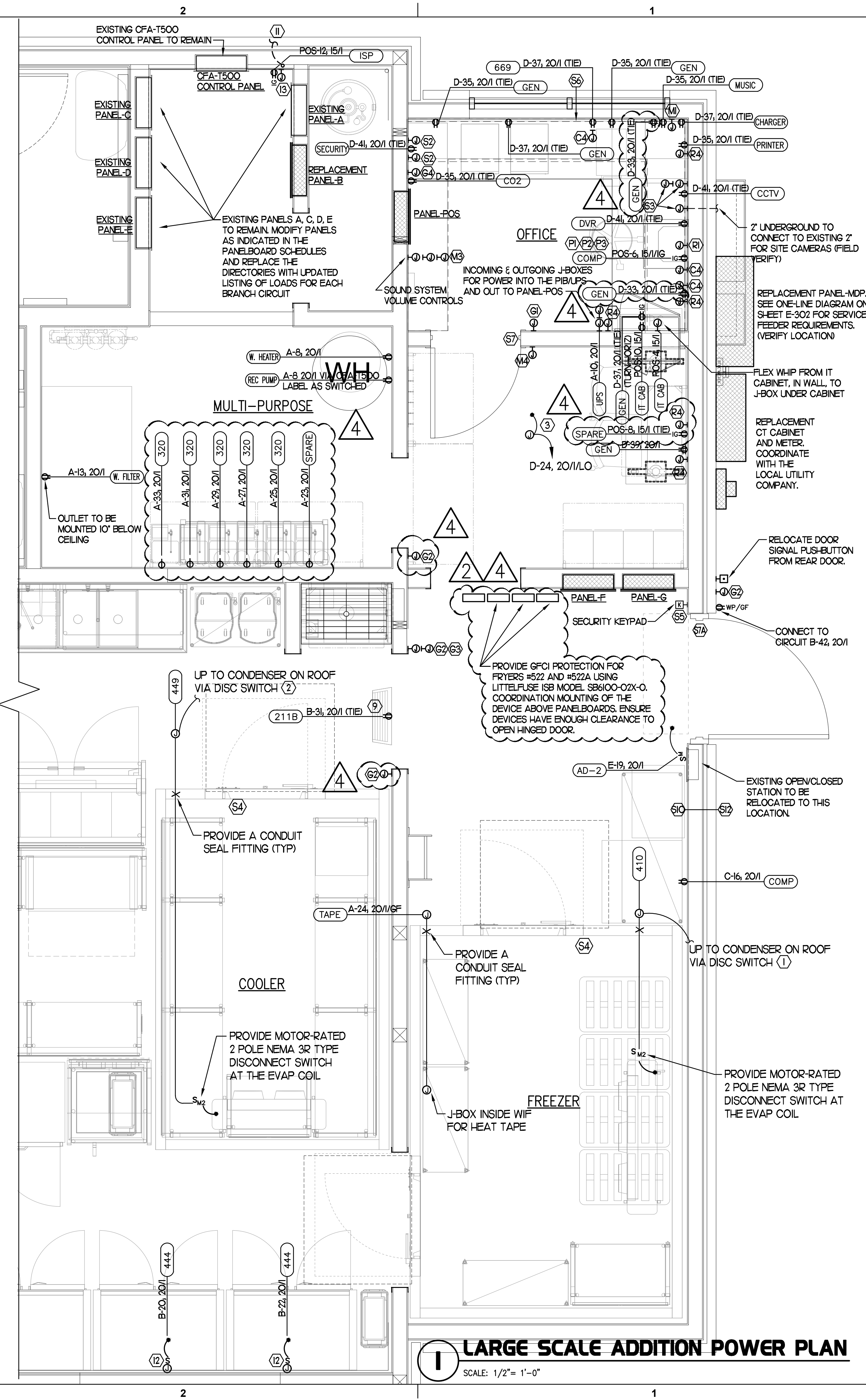
- G1 CO2 CENTRAL CONTROL UNIT - PROVIDE SINGLE-GANG BACKBOX AT 60" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE.
- G2 CO2 ANNUNCIATOR UNIT - PROVIDE SINGLE-GANG BACKBOX AT 60" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE.
- G3 CO2 SENSOR UNIT - PROVIDE SINGLE-GANG BACKBOX AT 12" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE.
- G4 CO2 POWER SUPPLY - PROVIDE SINGLE-GANG BACKBOX AT 18" BELOW CEILING WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE. PROVIDE 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:

- M1 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.
- M2 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.
- M4 PROVIDE A SINGLE GANG EXTRA DEEP JUNCTION BOX AT 74" AFF WITH 1/2" CONDUIT STUBBED INTO THE CEILING SPACE FOR MUSIC SYSTEM VOLUME CONTROLS.

## 9 KEY NOTES - POS SYSTEM:

- R1 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.
- R2 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.
- R3 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.
- R4 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.
- R5 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.
- R6 PROVIDE SINGLE GANG EXTRA DEEP JUNCTION BOX MOUNTED ON THE MOUNTING PLATE WITHIN THE FRONT SERVING COUNTER CASEWORK. MOUNT BOX ADJACENT TO THE RECEPTACLE FOR EQUIPMENT 180. DO NOT MOUNT BOX BETWEEN EQUIPMENT 180 AND EQUIPMENT 182 RECEPTACLES.
- R7 PROVIDE A SINGLE-GANG BOX FLUSH MOUNTED IN THE CEILING FOR THE POS DATA PLATE (BY OTHERS) FOR THE SALAD PREP AREA POS MONITOR AND PRINTER.



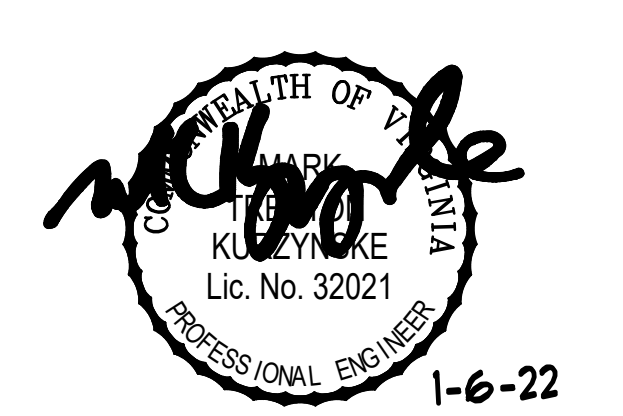
# 1 LARGE SCALE ADDITION POWER PLAN

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



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

**Kurzynske & Associates**  
CONSULTING ENGINEERS  
2705 Lebanon Pike - Suite One  
Nashville, Tennessee 37214  
Telephone: (615) 255-5203



**CHICK-FIL-A**  
Rutherford Crossing  
112 Market Street  
Winchester, VA 22603

**FSR#02288**  
BUILDING TYPE / SIZE: S06-C  
RELEASE: v12.20

NO.	DATE	DESCRIPTION
2	11/08/21	Plan Review Cmnts
4	12/17/21	Owner Revisions

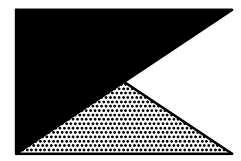
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SHEET LARGE SCALE POWER PLAN  
SHEET NUMBER

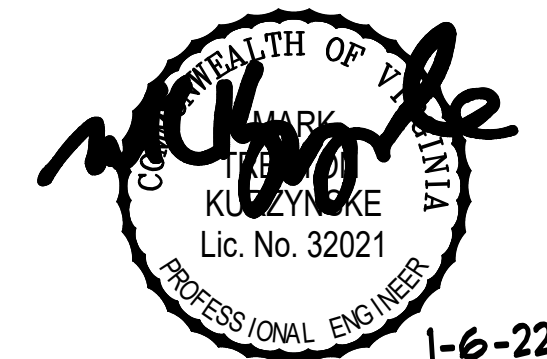
**E2.3**



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



**Kurzynske & Associates**  
CONSULTING ENGINEERS  
2705 Lebanon Pike - Suite One  
Nashville, Tennessee 37214  
Telephone: (615) 255-5203



1-6-22

**CHICK-FIL-A**  
Rutherford Crossing  
112 Market Street  
Winchester, VA 22603

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BUILDING TYPE / SIZE: S06-C  
RELEASE: v12.20

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DATE 06/28/2021

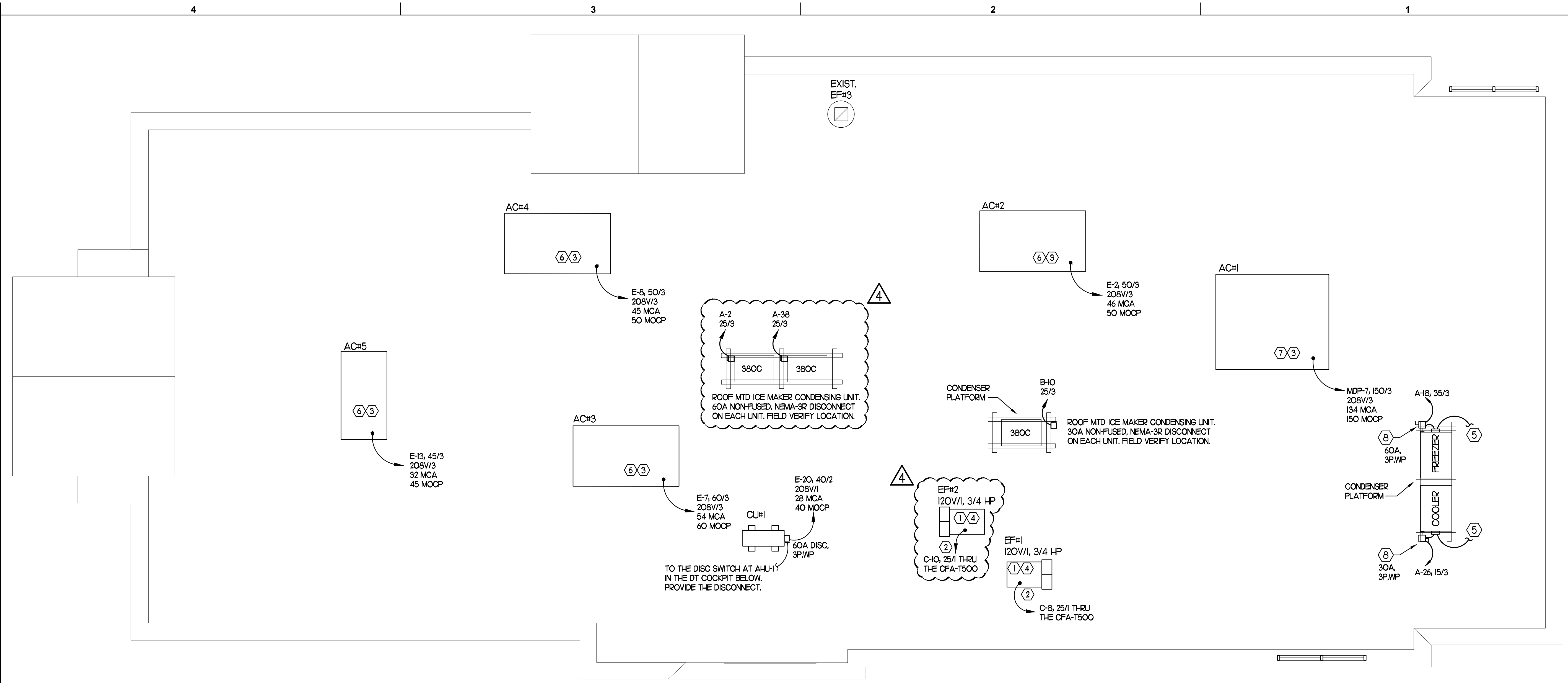
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SHEET ROOF POWER PLAN

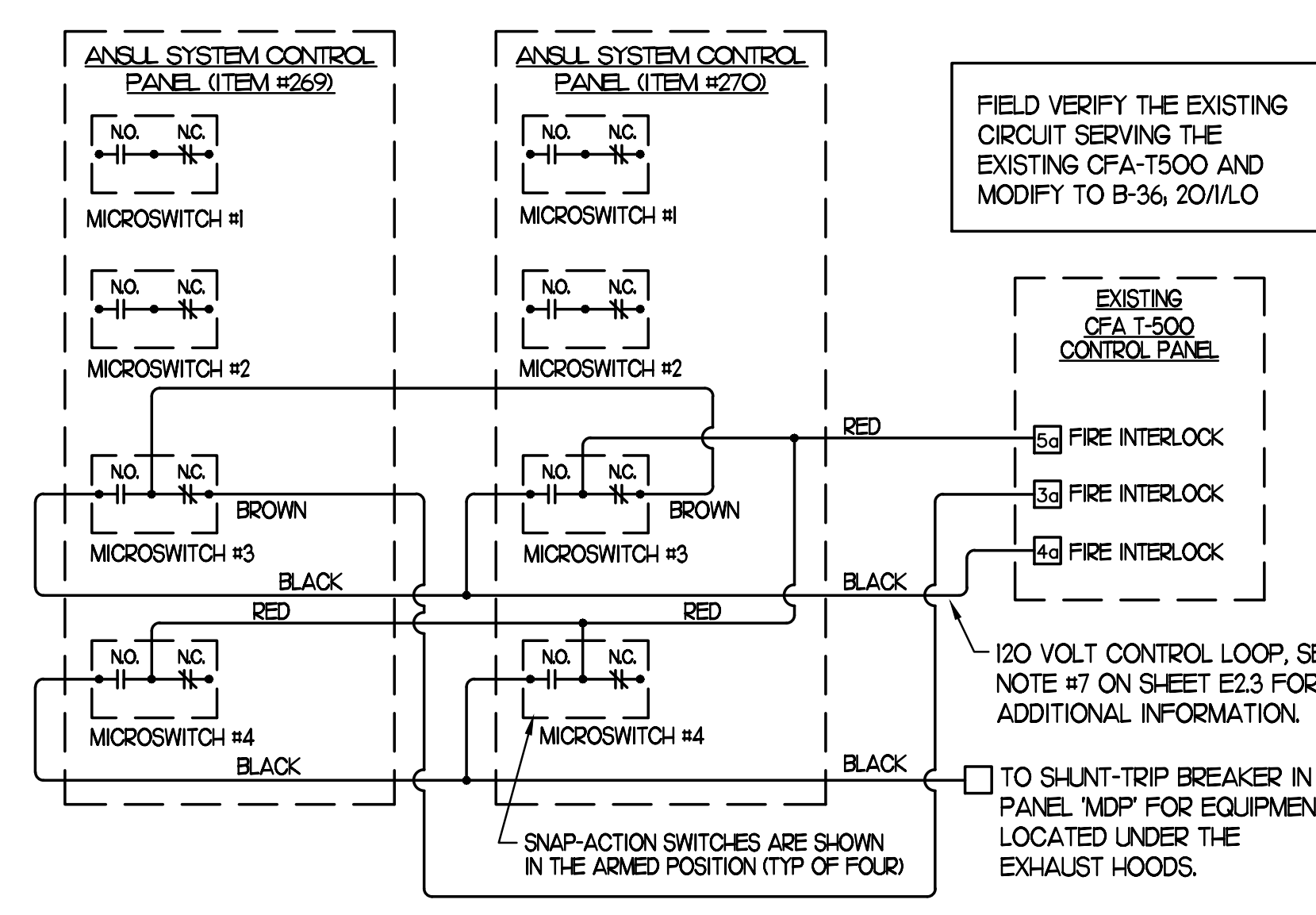
SHEET NUMBER

**E2.4**



**1 ROOF POWER PLAN**  
SCALE: 1/4" = 1'-0"

FIELD VERIFY ALL LOCATIONS



**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 UNITS COMPRESSOR CONTACTOR TO THE EVAPORATOR COIL UNITS JUNCTION BOX BELOW. REFER TO E23 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 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.

PANELBOARD SCHEDULE - EXISTING PANEL-A #2288														
PANELBOARD DESCRIPTION						BREAKER OPTIONS			LOADS					
PANELBOARD NAME: SIEMENS / P1						ARC-FAULT: GROUND FAULT: AF			KVA PHASE A 15.69					
MANUFACTURER / TYPE: 208 Y 120						HACR: HA			KVA PHASE B 14.71					
VOLTS: 3 / 4						HID LTG RATED: HD			AMPS PHASE A 130.7					
PHASE / WIRE: MLO / 250 AMP						HIGH MAG LOAD: HM			AMPS PHASE B 122.5					
MAIN TYPE / CU BUS AMPS: 65K / 10K						ISOLATED GROUND: IG			AMPS PHASE C 117.7					
AIC SERIES RATING: FLUSH						LOCK-ON: LO			KVA CONNECTED 44.52					
MOUNTING: 1						SHUNT TRIP: ST			KVA DIVERSIFIED 34.12					
NEMA RATING: 1						SWITCH RATED: SW			AMPS CONNECTED 123.6					
QUANTITY OF SECTIONS: 1									AMPS DIVERSIFIED 94.71					
PHI	CIR	LOAD	EQ	LOAD	LOAD	CIR	PH	CIR	LOAD	LOAD	EQ	LOAD	CIR	PHI
Notes	NO.	DESCRIPTION	NO	TYPE	KVA	*A/P/O	PH	*A/P/O	KVA	TYPE	NO	DESCRIPTION	NO.	Notes
	1	TELEPHONE DT VIDEO	190	R	0.540	20/1	A		1.704	X		ROOF MOUNTED ICE MAKER	2	
	3	SODA DISPENSER	315W	K	1.200	20/1	B	25/3	1.704	X	380C		4	C
	5	JUICE DISPENSER	310	K	1.020	20/1	C		1.704	X			6	
	7	UC REFRIGERATOR	420	X	0.564	20/1	A	20/1	1.440	MS		WATER HEATER	8	
	9	GEN OUTLETS	R	0.360	20/1	B	20/1		1.530			PANEL-POS	10	
	11	SPARE SODA DISPENSER	315W	K	1.200	20/1	C	20/1	1.800	R		EXIST PLAT AREA OUTLET	12	
	13	WATER FILTRATION	MS	0.180	20/1	A	20/1		1.200	K		SODA DISPENSER	14	
	15	MILKSHAKE DISPENSER	300A	K	0.480	20/1	B	20/1	1.200	K		SODA DISPENSER	16	
	17	EXIST WALL HEATER	HT	0.750	20/2	C			1.956	X		REPLACEMENT WALK-IN	18	
	19	GEN OUTLET	R	0.360	20/1	A	35/3/L0		2.221	X	410	FREEZER EVAP COIL AND CONDENSER	20	C
	23	CARBONATOR	320	K	0.744	20/1	C	20/1/GF	1.000	HT		HEAT TAPE	24	A,C
	25	CARBONATOR	320	K	0.744	20/1	A		1.258	X		REPLACEMENT WALK-IN	26	
	27	CARBONATOR	320	K	0.744	20/1	B	15/3/L0	1.258	X	449	REPLACEMENT WALK-IN	28	C
	29	CARBONATOR	320	K	0.744	20/1	C		1.140	X		COOLER EVAP COIL AND CONDENSER	30	
	31	CARBONATOR	320	K	0.744	20/1	A	20/1	1.200	K		SODA DISPENSER	32	
	33	SPARE CARBONATOR	320	K	0.744	20/1	B	20/1	1.200	K		SODA DISPENSER	34	
	35	EXIST BOOSTER PUMP	M1	1.440	20/2	C	20/1					SPARE	36	C
	37	SPARE	M1	1.440	20/2	C			1.704	X		ROOF MOUNTED ICE MAKER	38	
	39	SPARE	R	0.540	20/1	B	25/3		1.704	X	380C		40	C
	41	GEN OUTLETS	R	0.540	20/1	C			1.704	X			42	

PANELBOARD SCHEDULE - REPLACEMENT PANEL-B #2288															
PANELBOARD DESCRIPTION						BREAKER OPTIONS			LOADS						
PANELBOARD NAME: SIEMENS / P1						ARC-FAULT: GROUND FAULT: AF			KVA PHASE A 19.04						
MANUFACTURER / TYPE: 208 Y 120						HACR: HA			KVA PHASE B 21.24						
VOLTS: 3 / 4						HID LTG RATED: HD			AMPS PHASE A 158.6						
PHASE / WIRE: MLO / 250 AMP						HIGH MAG LOAD: HM			AMPS PHASE B 177						
MAIN TYPE / CU BUS AMPS: 65K / 10K						ISOLATED GROUND: IG			AMPS PHASE C 134.4						
AIC SERIES RATING: FLUSH						LOCK-ON: LO			KVA CONNECTED 56.41						
MOUNTING: 1						SHUNT TRIP: ST			KVA DIVERSIFIED 38.61						
NEMA RATING: 1						SWITCH RATED: SW			AMPS CONNECTED 156.6						
QUANTITY OF SECTIONS: 1									AMPS DIVERSIFIED 107.2						
PHI	CIR	LOAD	EQ	LOAD	LOAD	CIR	PH	CIR	LOAD	LOAD	EQ	LOAD	CIR	PHI	
Notes	NO.	DESCRIPTION	NO	TYPE	KVA	*A/P/O	PH	*A/P/O	KVA	TYPE	NO	DESCRIPTION	NO.	Notes	
	1	ICE DREAM MACHINE	300X	X	1.800	20/3	A	20/1	0.380	EL		REFUSE BLDG	2		
	5	FRY HOLDING	560	K	1.840	20/1/GF	B	15/1/GF	0.600	X	420	UC REFRIGERATOR	6	B	
	9	UC REFRIGERATOR	421	X	0.756	20/1/GF	B		1.704	X		ROOF MOUNTED ICE MAKER	10		
	11	SANDWICH SLIDE	563D	K	1.090	20/1/GF	A	25/3			380C		12		
	13	SANDWICH SLIDE	563S	K	0.548	20/1/GF	A		1.704	X			14		
	15	FRY HOLDING	560	K	1.840	20/1/GF	B	20/1	0.600	MS		DT DOOR	16		
	17	UC REFRIGERATOR	420	X	0.564	20/1	C	20/1	1.920	X	444	THAW CABINET	18		
	19	ICE DREAM MACHINE	300X	X	2.280	25/3	A	20/1	1.920	X	444	THAW CABINET	20		
	21	ICE DREAM MACHINE	300X	X	2.280	25/3	A	20/2/GF	1.250	K		503	EGG STATION	22	A
	23	ROOFTOP OUTLETS	R	0.720	20/1	A			1.250	K		503	EGG STATION	26	A
	27	DINING OUTLETS	R	0.540	20/1	B	20/2/GF		1.250	K		503	EGG STATION	28	A
	29	GEN OUTLETS	R	0.540	20/1	C			1.250	K		503	EGG STATION	30	A
	31	FLY SYSTEM	211B/C	MS	0.320	20/1/GF	A	20/2/GF	1.250	K		503	SPARE FOR FUTURE EGG STATION	32	A
	33	JUICE DISPENSER	310	K	1.020	20/1/GF	B		1.250	K		503	SPARE FOR FUTURE EGG STATION	34	A
	35	REFRIG EQUIP STAND	422T	X	0.804	15/1/GF	C	20/1	0.564	X	420	UC REFRIGERATOR	36		
	37	FRY FREEZER	400	X	1.128	20/1/GF	A	30/2	2.000	K		308	COFFEE MAKER	38	
	39	FRY FREEZER	400	X	1.128	20/1/GF	B	30/2	2.000	K		308	COFFEE MAKER	40	
	41	SPARE			20/1	C	20/1		0.360	R		EXIST GEN & DOORBELL	42		
	43	SPARE			20/1	A	20/1/GF		0.180	R		DROP CORD OUTLET	44	A	
	45	SPARE			20/1	B	20/1		0.180	R		444S	SPARE FOR THAW CAB	46	
	47	SALAD PREP TABLE	441	X	1.080	15/1/GF	C	20/1	0.180	R		HUE OUTLET	48		
	49	WORKTOP REFRIG	432	X	0.756	20/1/GF	A	20/1				SPARE	50		
	51	DROP CORD OUTLET	R	0.180	20/1/GF	B						SPARE	52		
	53	DROP CORD OUTLET	R	0.180	20/1/GF	C						SPARE	54		
	55	GEN OUTLET	R	0.360	20/1	A						SPACE	56		
	57	GEN OUTLET	R	0.360	20/1	B	1 POLE					SPACE	58		
	59	SPACE			1 POLE	A	1 POLE					SPACE	60		
	61	SPACE			1 POLE	A	1 POLE					SPACE	62		
	63	SPACE			1 POLE	B	1 POLE					SPACE	64		
	65	SPACE			1 POLE	C	1 POLE					SPACE	66		

PANELBOARD SCHEDULE - EXISTING PANEL-C #2288														
PANELBOARD DESCRIPTION						BREAKER OPTIONS			LOADS					
PANELBOARD NAME: SIEMENS / P1						ARC-FAULT: GROUND FAULT: AF			KVA PHASE A 18.33					
MANUFACTURER / TYPE: 208 Y 120						HACR: HA			KVA PHASE B 18.99					
VOLTS: 3 / 4						HID LTG RATED: HD			AMPS PHASE A 152.8					
PHASE / WIRE: MLO / 250 AMP						HIGH MAG LOAD: HM			AMPS PHASE B 158.2					
MAIN TYPE / CU BUS AMPS: 65K / 10K						ISOLATED GROUND: IG			AMPS PHASE C 140.5					
AIC SERIES RATING: FLUSH						LOCK-ON: LO			KVA CONNECTED 54.18					
MOUNTING: 1						SHUNT TRIP: ST			KVA DIVERSIFIED 50.92					
NEMA RATING: 1						SWITCH RATED: SW			AMPS CONNECTED 150.4					
QUANTITY OF SECTIONS: 1									AMPS DIVERSIFIED 141.3					
PHI	CIR	LOAD	EQ	LOAD	LOAD	CIR	PH	CIR	LOAD	LOAD	EQ	LOAD	CIR	PHI
Notes	NO.	DESCRIPTION	NO	TYPE	KVA	*A/P/O	PH	*A/P/O	KVA	TYPE	NO	DESCRIPTION	NO.	Notes
	1	KITCHEN LTG	L	0.776	20/1	A	20/1		0.800	EL		EXIST BLDG SIGNAGE	2	
	5	TOILET LTG / EF-3	L	1.016	20/1	C	20/1		0.518	EL		ORDER/OMD CANOPY LTG	6	
	7	DINING LTG	L	0.086	20/1	A	25/1	1.587	M1	EF1		REPLACEMENT EF-1	8	C
	9	PLAY AREA LTG	L	0.197	20/1	B	25/1	1.587	M1	EF2		REPLACEMENT EF-2	10	C
	11	DINING LTG	L	0.160	20/1	C	20/1		0.725	EL		FLAG / SECURITY LTG	12	
	13	DINING LTG	L	1.130	20/1	A	20/1		0.450	M1	CJ	HOOD CAPTURE JET FANS	14	
	15	SERVING LTG	L	0.325	20/1	B	20/1		1.920	M1		AIR COMPRESSOR	16	
	17	MENUBOARDS	671	MS	1.200	20/1	C	20/1	0.720	R		DINING OUTLETS	18	
	19	EXIST DIRECTIONAL SIGNS	EL	0.420	20/1	A	20/1		0.420	R		DINING OUTLETS	20	
	21	EXIST PARKING LOT LTG	EL	0.912	30/1	B	20/1		0.250	EL		EXTERIOR BLDG. LTG	22	
	23	EXIST PARKING LOT LTG	EL	1.368	30/1	C	20/1		0.325	EL		EXTERIOR BLDG. LTG	24	
	25	KIOSK EQUIPMENT	HT	1.000	2 POLE	BKR	B	20/1	1.650	K	305	TEA BREWER	26	C
	29	ORDER CANOPY FANS	MS	1.096	20/1/GF	C	15/1		0.600	X	380	INTERIOR ICE MAKER	30	C
	31	OMD CANOPY FANS	MS	0.822	20/1/GF	A	15/1		0.600	X	380	INTERIOR ICE MAKER	32	C
	33	MENUBOARD COVE LTG	EL	1.000	20/1	B	20/1		1.000	MS		WC/WF LTG	34	A,C
	35	OPEN FRYER	K	7.333	80/3/ST	C	20/1		1.000	MS		EXIST CFA-1500/ST CKT	36	
	37	OPEN FRYER	K	7.333	80/3/ST	B	20/1		0.800	EL		DT MENUBOARDS	38	
	39	OPEN FRYER	K	7.333	80/3/ST	A	20/1		0.800	EL		EXIST BLDG SIGNAGE	40	
	41	SPARE			20/1	C	20/1		0.800	EL		EXIST BLDG SIGNAGE	42	

PANELBOARD SCHEDULE - EXISTING PANEL-D #2288														
PANELBOARD DESCRIPTION						BREAKER OPTIONS			LOADS					
PANELBOARD NAME: SIEMENS / P1						ARC-FAULT: GROUND FAULT: AF			KVA PHASE A 10.35					
MANUFACTURER / TYPE: 208 Y 120						HACR: HA			KVA PHASE B 15					
VOLTS: 3 / 4						HID LTG RATED: HD			AMPS PHASE A 86.25					
PHASE / WIRE: MLO / 400 AMP						HIGH MAG LOAD: HM			AMPS PHASE B 125					
MAIN TYPE / CU BUS AMPS: 65K / 10K						ISOLATED GROUND: IG			AMPS PHASE C 71.58					
AIC SERIES RATING: FLUSH						LOCK-ON: LO			KVA CONNECTED 33.94					
MOUNTING: 1						SHUNT TRIP: ST			KVA DIVERSIFIED 24.04					
NEMA RATING: 1						SWITCH RATED: SW			AMPS CONNECTED 94.7					
QUANTITY OF SECTIONS: 1									AMPS DIVERSIFIED 66.73					
PHI	CIR	LOAD	EQ	LOAD	LOAD	CIR	PH	CIR	LOAD	LOAD	EQ	LOAD	CIR	PHI
Notes	NO.	DESCRIPTION	NO	TYPE	KVA	*A/P/O	PH							



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

that adjustments and apparatus setting of circuit breakers, fuses, control equipment and apparatus have been made. Correct defects discovered during tests.

3.03 REMOVAL OF DEBRIS

A. Remove surplus materials and debris caused by, or incidental to, electrical work. Remove such debris at frequent intervals. Keep job clean during construction.

3.04 IDENTIFICATION OF EQUIPMENT

A. Identify electrical distribution equipment, disconnects, and contactors with black laminated plastic name-plates, attached with two screws, engraved with 1/4" high, white letters.

3.05 TEMPORARY LIGHTING AND POWER IN AREAS OF CONSTRUCTION A. Provide, maintain and remove after construction is completed, temporary lighting adequate for workman safety and temporary power for all trades including any 3 phase power required.

B. Provide and maintain barricade lighting where required to adequately protect owner against liability for damage to public or personnel. All lamps used in barricade shall be 60 watt red, installed in weatherproof socket with wire guard. All wiring shall be approved for weatherproof installation.

3.06 GUARANTEE-WARRANTY

A. Guarantee work to be free from defects of materials and workmanship for a period of one year from date of final acceptance of building. Repair and replace defective work and other work damaged thereby which becomes defective during term of guarantee-warranty. Furnish owner with three written copies of guarantee-warranty.

SECTION C16120 RACEWAYS AND CONDUIT SYSTEMS

PART 1 - PRODUCTS

1.01 ACCEPTABLE MANUFACTURERS

A. Rigid IMC, and EMT conduit shall be hot-dipped, galvanized, or electro-galvanized steel by Allied, Republic, Triangle, Wheatland, or approved equal.

B. PVC conduit shall be Carlon, schedule 40, 90 degrees C-rated, unless otherwise noted.

C. MC cable shall be manufactured by AFC Cable Systems or approved equal. Type "AC-90" is not allowed. All MC Cables shall have a green equipment ground conductor and an additional isolated ground (green + yellow stripe) conductor for isolated ground circuits (POS System). Fittings used for connecting MC cable to boxes, cabinets, or other equipment shall be listed and identified for such use.

D. Associated couplings, connectors and fittings shall be steel as manufactured by Raco or equivalent. Catalog numbers used below are those of Raco.

E. Erickson Couplings, Series 1502, shall be used where neither length of conduit can be rotated.

F. Insulated bushings shall be series 1402.

G. EMT box connectors shall be compression or set-screw fittings.

H. Conduit, connectors, couplings and fittings shall be UL listed and labeled.

1.02 ELECTRICAL METALLIC TUBING (EMT)

A. Use Electrical Metallic Tubing (EMT) where drawings call for conduit to be: 1. Concealed in walls. 2. Installed above suspended ceilings. 3. Installed exposed, above 6 feet.

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.

1.07 MC (METAL-CLAD) CABLE

A. MC Cable shall be UL listed per standard 1569, color coded copper conductors (type THHN), the sheathing shall be constructed of interlocked

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 under 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 fer alloy. Provide gasketed cover by box manufacturer.

C. Manufacturers: National, Appleton, General Electric, RACO, OR Steel City.

D. Provide boxes for fixtures with fixture studs in center.

E. Outlet boxes for lighting, switches and receptacles in interior areas with exposed conduit shall be pressed steel and in exterior areas with exposed conduit shall be cast metal with threaded hubs, "FS" type. Use galvanized steel for concealed boxes. Boxes shall be 1-1/2" deep minimum.

2.02 PULL AND JUNCTION BOXES

A. Sheet metal boxes: galvanized steel.

B. Surface-mounted cast metal box: type 4; flat-flanged, surface-mounted junction box.

1. Material: galvanized cast iron.

2. Cover: furnish with ground flange, neoprene gasket, and stainless steel cover screws.

C. In-ground cast metal box: inside flanged, recessed cover box for flush mounting.

1. Material: galvanized cast iron.

2. Cover: nonskid cover with neoprene gasket and stainless steel cover screws.

3. Cover legend: electric.

D. Manufacturers: National, Appleton, General Electric, RACO, Oz-Gedney or Steel City.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Install electrical boxes as shown on drawings, and as required for splices, taps, wire pulling, equipment connections and compliance with regulatory requirements.

B. Install pull boxes and junction boxes above accessible ceilings.

C. Inaccessible ceiling areas: Install outlet and junction boxes no more than 6

inches from ceiling access panel or from removable recessed light fixture.

D. Use flush mounting outlet boxes in finished areas.

E. Use stamped steel bridges to fasten flush mounting outlet box between studs.

F. Install flush mounted box without damaging wall insulation or reducing its effectiveness.

G. Use adjustable steel channel fasteners for hung ceiling outlet box.

H. Do not fasten boxes to ceiling support wires.

I. Support boxes independently of conduit, except cast box that is connected to two Rigid Metal Conduits both supported within 12 inches of box.

J. Use gang box where more than one device is mounted together. Do not use sectional box.

K. Use gang box with plaster ring for single device outlets.

L. Use cast outlet box in exterior locations and wet locations.

3.02 OUTLET BOXES

A. Select boxes according to intended use and type of outlet. Ceiling outlet boxes shall be 4" octagon and 1-1/2" deep. Use 2-1/8" deep octagon boxes or 4" square boxes required. All ceiling outlet boxes shall have a fixture stud of no bolt self-locking type installed if required to hang the fixture specified at the outlet.

3.03 JUNCTION BOXES

A. Junction boxes shall be sized according to number of conductors in box or type of service to be provided. Minimum junction box size 4-11/16" square and 2-1/8" deep. Provide screw covers for junction boxes.

B. Use code gauge steel with screw covers for pull boxes with prime coat and provide with screw cover. Size pull boxes according to the NEC.

C. Provide pull box every 100 feet of conduit run or where excessive number of bends necessitates a box for ease of wire installation.

SECTION C16123 GROUNDING AND BONDING

PART 1 - PRODUCTS

1.01 ROD ELECTRODES

A. Material: copper-clad steel.

B. Diameter: 3/4 inch.

C. Length: 10 feet.

1.02 MECHANICAL CONNECTORS

A. Material: bronze.

1.03 GROUNDING CONDUCTOR (WIRE)

A. Material: stranded copper, sized to meet NFPA 70, Article 250 requirements.

PART 2 - EXECUTION

2.01 INSTALLATION

A. Install rod electrodes at locations indicated. Install additional rod electrodes as required to achieve resistance to ground of less than 25 ohms.

B. Provide grounding electrode conductor and connect to reinforcing steel in foundation footing.

C. Provide bonding to meet regulatory requirements.

D. Bond together each metallic raceway, pipe, duct and other metal objects.

E. Provide isolated grounding conductor for circuits supplying all isolated ground outlets. Insulation shall be green with yellow stripe. Size per NEC Table 250.66. This isolated grounding conductor shall run in addition to equipment grounding conductor and along with the branch circuit conductors.

2.02 GROUNDING

A. Ground electrical system in accordance with NEC Article 250 and local authorities having jurisdiction.

B. Install a #3/0 bare copper wire bond across the water meter attached to ground clamps on water line on each side of meter. Arrangements shall be made to do this work at the time the water meter is installed.

C. From the point of entrance of the water main into the building and on the meter side of the main inside water valve and union install a stranded copper cable #3/0 in 1-1/4" conduit to the main distribution panel. Connect the cable to the equipment ground bus.

D. Install a green equipment grounding conductor in each raceway, sized per NEC Table 250-122. Terminate on equipment ground bus within panelboard serving load.

E. Install #6 awg copper grounding conductor from ground bar in main telephone box to 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.

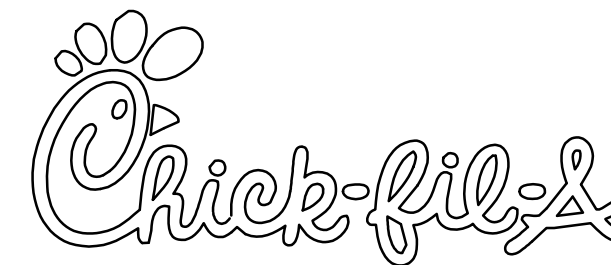
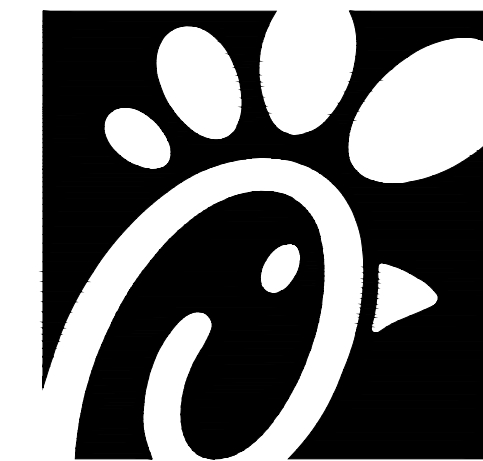
D. Install a green equipment grounding conductor in each raceway, sized per NEC Table 250-122. Terminate on equipment ground bus within panelboard serving load.

E. Install #6 awg copper grounding conductor from ground bar in main telephone box to grounded neutral bus in main distribution panel.

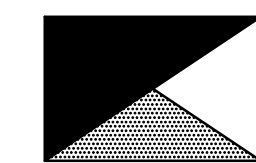
F. All separate grounding electrode conductors shall be bonded together to limit potential differences between them and between their associated wiring systems. This includes the power system, telephone system, etc.

2.03 FIELD QUALITY CONTROL

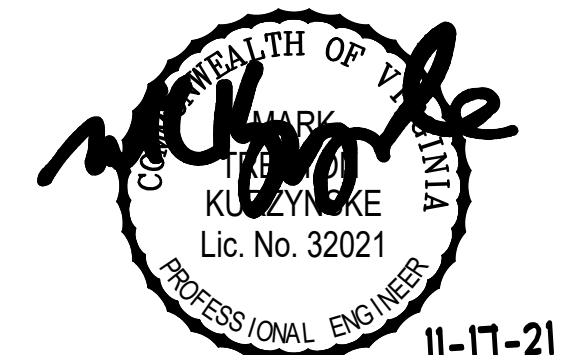
A. Inspect grounding and bonding system conductors and connections for tightness and proper installation.



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



Kurzynske & Associates CONSULTING ENGINEERS 2705 Lebanon Pike - Suite One Nashville, Tennessee 37214 Telephone: (615) 255-5203



11-17-21

CHICK-FIL-A Rutherford Crossing 112 Market Street Winchester, VA 22603

FSR#02288

BUILDING TYPE / SIZE: S06-C RELEASE: V12.20

REVISION SCHEDULE

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BID

E4.1

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 bridge 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)  
Tampor Resistant duplex: #TRCR20-B (Vestibules & Play Area)  
Tampor 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) as indicated in Panelboard Schedules:

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.

C. Siemens:  
from Suncoast Environmental Controls (SEC), Scott Dyer (877)544-6679.

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. Nonfusable 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.

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 Bussman "Limiter" 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.

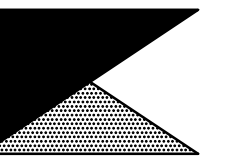
2. Operation manuals and maintenance manuals for each piece of equipment requiring maintenance. Required routine maintenance actions shall be clearly identified.

3. Names and addresses of at least one qualified service agency.

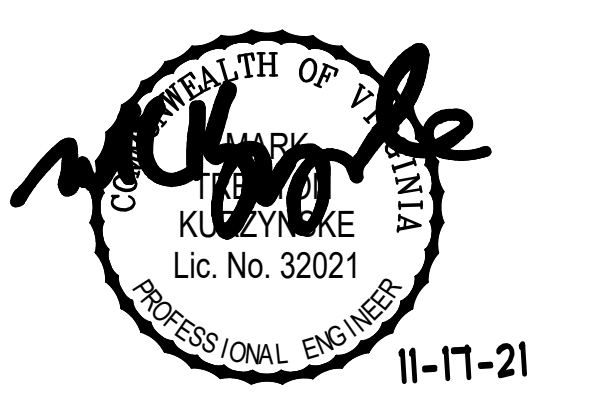
4. A complete narrative of how each system is intended to operate.



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



Kurzynske & Associates  
CONSULTING ENGINEERS  
2705 Lebanon Pike - Suite One  
Nashville, Tennessee 37214  
Telephone: (615) 255-5203



CHICK-FIL-A  
Rutherford Crossing  
112 Market Street  
Winchester, VA 22603

FSR#02288

BUILDING TYPE / SIZE: S06-C  
RELEASE: V12.20

REVISION SCHEDULE  
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 21079.HF.R  
PRINTED FOR: BID  
DATE: 08/28/2021  
DRAWN BY: ML

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SHEET ELECTRICAL SPECIFICATIONS

SHEET NUMBER

E4.2

COMcheck Software Version 4.1.5.1  
**Interior Lighting Compliance Certificate**

**Project Information**

Energy Code: 2015 IECC  
 Project Title: Chick-fil-A #2288  
 Project Type: Addition

Construction Site: 112 Market Street, Winchester, VA 22603  
 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 <sup>2</sup> )	C Allowed Watts / ft <sup>2</sup>	D Allowed Watts (B X C)
1-Kitchen (Common Space Types:Food Preparation)	1716	1.21	2076
2-Office (Common Space Types:Office - Enclosed)	66	1.11	73
3-Storage (Common Space Types:Storage >=50 - <=1000 sq.ft.)	179	0.63	113
4-Restrooms (Common Space Types:Restrooms)	192	0.98	188
5-Dining (Common Space Types:Dining Area - Family Restaurant)	1810	0.89	1611
6-Electrical/Mech Room (Common Space Types:Electrical/Mechanical)	162	0.95	154
Total Allowed Watts = 4215			

**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)
<b>1-Kitchen (Common Space Types:Food Preparation)</b>				
LED: A/AE: 2x4 Troffer: Other:	1	19	59	1129
LED: B1: Task Light: Other:	1	1	35	35
LED: F: LED Egg Light: Other:	1	4	12	48
Linear Fluorescent: J1: Cove Lighting: 48" T8 28W (Super T8): Electronic:	1	7	28	196
LED: S/SE: 2x4 Troffer: Other:	1	2	49	98
<b>2-Office (Common Space Types:Office - Enclosed)</b>				
LED: A/AE: 2x4 Troffer: Other:	1	1	59	59
<b>3-Storage (Common Space Types:Storage &gt;=50 - &lt;=1000 sq.ft.)</b>				
LED: A/AE: 2x4 Troffer: Other:	1	4	59	238
<b>4-Restrooms (Common Space Types:Restrooms)</b>				
LED: D3/D3E: LED Downlight: Other:	1	4	21	84
LED: N: Vanity: Other:	1	11	2	22
<b>5-Dining (Common Space Types:Dining Area - Family Restaurant)</b>				
LED: D3/D3E: LED Downlight: Other:	1	39	21	823
<b>6-Electrical/Mech Room (Common Space Types:Electrical/Mechanical)</b>				
LED: A/AE: 2x4 Troffer: Other:	1	2	59	119

Project Title: Chick-fil-A #2288 Report date: 01/04/22  
 Data filename: Z:\Shared\02 Prototypes\Chick-fil-A\2021\Remodels\21079.HF.R - Winchester, VA (Rutherford Crossing) - 2288\ComCheck\CFA #2288 2015 IECC ComCheck.cck Page 1 of 10

Total Proposed Watts = 2851

**Interior Lighting PASSES: Design 32% 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 2015 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Mark Kurzynske - PE  
 Name - Title Signature Date

Project Title: Chick-fil-A #2288 Report date: 01/04/22  
 Data filename: Z:\Shared\02 Prototypes\Chick-fil-A\2021\Remodels\21079.HF.R - Winchester, VA (Rutherford Crossing) - 2288\ComCheck\CFA #2288 2015 IECC ComCheck.cck Page 2 of 10

COMcheck Software Version 4.1.5.1  
**Exterior Lighting Compliance Certificate**

**Project Information**

Energy Code: 2015 IECC  
 Project Title: Chick-fil-A #2288  
 Project Type: Addition  
 Exterior Lighting Zone: 2 (Neighborhood business district)

Construction Site: 112 Market Street, Winchester, VA 22603  
 Owner/Agent: Chick-fil-A, 5200 Buffington Road, Atlanta, GA 30349  
 Designer/Contractor: Kurzynske & Associates, 2705 Lebanon Pike - Suite One, Nashville, TN 37214, 615-255-5203

**Allowed Exterior Lighting Power**

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Illuminated area of facade wall or surface	3030 ft <sup>2</sup>	0.1	No	303
Free standing/attached sales canopy	2904 ft <sup>2</sup>	0.6	Yes	1742
Other door (not main entry)	4 ft of door	20	Yes	80
Total Tradable Watts (a) =				1822
Total Allowed Watts =				2125
Total Allowed Supplemental Watts (b) =				600

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.  
 (b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

**Proposed Exterior Lighting Power**

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
<b>Illuminated area of facade wall or surface (3030 ft<sup>2</sup>): Non-tradable Wattage</b>				
LED: OJ: Wall Sconce: Other:	1	21	25	525
<b>Free standing/attached sales canopy (2904 ft<sup>2</sup>): Tradable Wattage</b>				
LED: OMD Canopy Lig: Integral Light: Other:	1	12	74	888
<b>Other door (not main entry) (4 ft of door width): Tradable Wattage</b>				
LED: OK: Wall Pack: Other:	1	1	13	13
Total Tradable Proposed Watts =				901

**Exterior Lighting PASSES: Design 59% better than code**

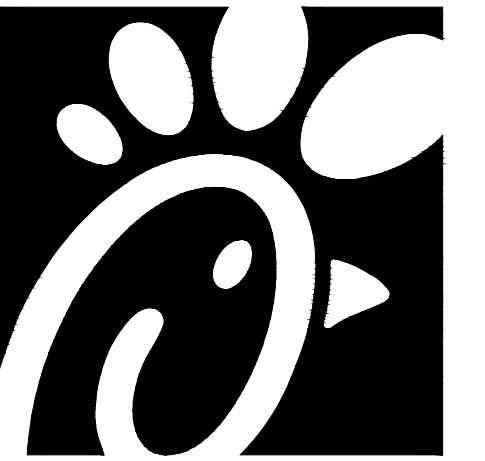
**Exterior Lighting Compliance Statement**

*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 2015 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: Chick-fil-A #2288 Report date: 01/04/22  
 Data filename: Z:\Shared\02 Prototypes\Chick-fil-A\2021\Remodels\21079.HF.R - Winchester, VA (Rutherford Crossing) - 2288\ComCheck\CFA #2288 2015 IECC ComCheck.cck Page 3 of 10

Mark Kurzynske - PE  
 Name - Title Signature Date

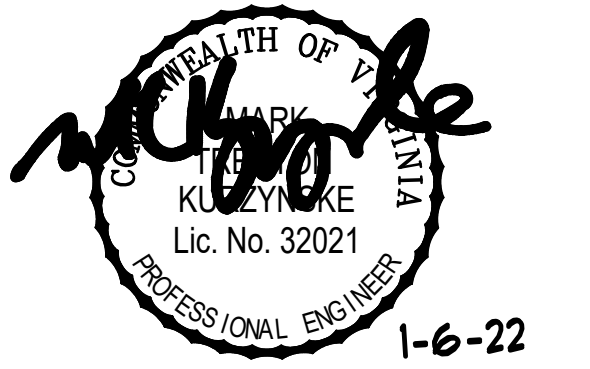
Project Title: Chick-fil-A #2288 Report date: 01/04/22  
 Data filename: Z:\Shared\02 Prototypes\Chick-fil-A\2021\Remodels\21079.HF.R - Winchester, VA (Rutherford Crossing) - 2288\ComCheck\CFA #2288 2015 IECC ComCheck.cck Page 4 of 10



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



**Kurzynske & Associates**  
 CONSULTING ENGINEERS  
 2705 Lebanon Pike - Suite One  
 Nashville, Tennessee 37214  
 Telephone: (615) 255-5203



**CHICK-FIL-A**  
 Rutherford Crossing  
 112 Market Street  
 Winchester, VA 22603

**FSR#02288**

BUILDING TYPE / SIZE: S06-C  
 RELEASE: v12.20

**REVISION SCHEDULE**

NO.	DATE	DESCRIPTION
4	12/17/21	Owner Revisions

CONSULTANT PROJECT # 21079.HF.R

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DATE 06/28/2021

DRAWN BY ML

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SHEET LIGHTING COMCHECK

SHEET NUMBER

**E5.1**

E

D

C

B

A

E

D

C

B

A

**PERMIT**