

1. SECTION C15100 - PLUMBING SPECIFICATIONS

PART I - PRODUCTS (C15100)

1.01 GENERAL REQUIREMENTS

A. THE FOLLOWING SPECIFICATIONS ARE THE MINIMUM REQUIREMENT. WHERE FEDERAL, STATE OR LOCAL REQUIREMENTS DIFFER FROM THIS SPECIFICATION, THE MORE STRINGENT OF THE TWO SHALL BE FOLLOWED.

1.02 SCOPE

- A. HOT AND COLD POTABLE WATER PIPING ABOVE SLAB SHALL BE TYPE 'L' HARD DRAWN COPPER OR FLOWGUARD GOLD CPVC AS MANUFACTURED BY NIBCO OR CHARLOTTE PIPE & FOUNDRY AND MEETING ASTM D-2846. FILTERED WATER PIPING SHALL BE FLOWGUARD GOLD CPVC. HOT AND COLD PIPING WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE COPPER.
- B. POTABLE WATER PIPING BELOW SLAB AND OUTSIDE BELOW GRADE SHALL BE TYPE "K" SOFT ANNEALED SEAMLESS. NO JOINTS SHALL BE ALLOWED BELOW SLAB. POTABLE WATER PIPING BELOW GRADE SHALL BE SLEEVED FOR ITS ENTIRE LENGTH WITH POLY SLEEVE AS MADE BY IPS WATER-TITE. ALL SLAB PENETRATIONS SHALL BE SLEEVED WITH POLY SLEEVE TO PROTECT PIPING FROM CORROSION BY CONCRETE.
- C. COPPER PIPE FITTINGS SHALL BE WROUGHT COPPER SWEEP PATTERN FITTINGS SOLDERED USING 95-5 LEAD-FREE SOLDER MEETING ASTM B-32 OR BRAZED WITH SIL-FOS. SOLDER FLUXES SHALL MEET ASTM B-813 AND SHALL BE LEAD FREE. BRAZING FLUXES SHALL MEET AWS FB3-A OR FB3-C.
- D. WATER PIPING DOWNSTREAM OF SOFT DRINK CARBONATORS SHALL BE PROVIDED AND INSTALLED BY LOCAL SOFT DRINK VENDOR.
- E. CPVC FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE MEETING ASTM D-2846 WITH CEMENTS MEETING ASTM F-493 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. FOR CPVC PIPING INSTALLATION, WALL STUBS AT FIXTURES AND EQUIPMENT SHALL BE COPPER AND SHALL BE SERIES 630-C. CPVC-TO-COPPER STUB OUT ELBOWS BY SIOUX CHIEF.
- F. NIPPLES, ELBOWS, AND OTHER ACCESSORY FITTINGS REQUIRED TO COMPLETE ANY WATER PIPING CONNECTION SHALL BE BRASS OR OF SIMILAR TYPE METAL AS THE FITTING TO WHICH IT IS CONNECTED. GALVANIZED FITTINGS ARE PROHIBITED. (EXCEPTION: GALVANIZED HEAT TRAP WATER HEATER NIPPLES IF INTERNALLY PROTECTED WITH TEFLON OR POLYMER CORROSION-RESISTANT COATING.)
- G. ALL HVAC CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-1784, D-1785 AND D-2665.
- H. U.N.O., ALL SANITARY WASTE, VENT, STORM DRAINAGE PIPING AND FITTINGS INSIDE THE BUILDING, ABOVE AND BELOW GRADE, AND FOR ROOFTOP CONDENSATE, SHALL BE SOLID WALL SCHEDULE 40 PVC DWV AS MANUFACTURED BY CHARLOTTE PIPE AND MEETING ASTM D-2665 AND D-2949. FOAM CORE AND/OR CELLULAR CORE PVC PIPING SHALL NOT BE ALLOWED. PVC PIPING OUTSIDE THE BUILDING, BELOW GRADE, SHALL BE TYPE SDR-35 MEETING ASTM D-3034, U.N.O.
- I. DWV PIPE AND FITTINGS WITHIN WALLS BEHIND KITCHEN HOODS SHALL BE SERVICE WEIGHT HUBLESS CAST IRON WITH SLEEVE, SHIELD, AND DRAWBAND JOINTS MEETING ASTM A-888 AND ASTM C-564.
- J. PVC-DWV FITTINGS FOR PIPING SHALL BE SOLVENT WELD TYPE INSIDE AND UNDERSLAB MEETING ASTM D-2665, D-3311 AND F-186. CEMENTS SHALL MEET ASTM D-2564 AND PRIMER MEETING ASTM F-656. CURE TIME MUST COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. EXTERIOR PIPING JOINTS SHALL BE NEOPRENE PUSH-ON TYPE.
- K. PROVIDE 1" THICK PIPE INSULATION FOR ALL ABOVE SLAB HOT AND TEMPERED WATER PIPING. PROVIDE 1/2" THICK INSULATION FOR ALL ABOVE SLAB COLD WATER, FILTERED WATER, CONDENSATE PIPING, AND HORIZONTAL RAIN WATER CONDUCTORS INSIDE THE BUILDING. PIPING INSULATION SHALL BE KNAUF 1000F 25/50 FIBERGLASS PIPE COVERING, WHITE KRAFT PAPER VAPOR BARRIER (.02 PERMS) BONDED TO ALUMINUM FOIL AND REINFORCED WITH GLASS FIBERS. MAXIMUM THERMAL CONDUCTIVITY OF 0.23 AT 75F. LONGITUDINAL LAP SHALL BE SELF SEALING. INSULATION FOR WALK-IN COOLER/FREEZER CONDENSATE PIPING SHALL BE ARMACELL A/P ARMAFLEX WITH MINIMUM 3/4" WALL THICKNESS.
- L. PIPE INSULATION AND COVERINGS SHALL HAVE A RATING OF NOT GREATER THAN 25 FLAME SPREAD, NO HIGHER THAN 50 SMOKE DEVELOPED, AND NO MORE THAN 50 FUEL CONTRIBUTED. THE ONLY EXCEPTION SHALL BE ARMAFLEX AP, WHEN SPECIFIED, WHICH SHALL NOT EXCEED 100 SMOKE DEVELOPED.
- M. A PVC 25/50 PRE-FORMED COVER SHALL BE PROVIDED AT ALL INSULATED PIPING FITTINGS EQUAL TO PROTO PVC CORP LOSMOKE, 800-875-7768.
- N. ALL ABOVE GRADE NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL MEETING ASTM A53 WITH SCREWED OR WELDED FITTINGS AND GASKET TYPE UNIONS AND FLANGES. FOR SCREWED PIPING, PIPING SHALL BE JOINED WITH BLACK 150 POUND MALLEABLE IRON SCREWED FITTINGS AS ALLOWED BY LOCAL AUTHORITY. CONTRACTOR SHALL VERIFY THE NEED FOR WELDED PIPING AS REQUIRED BY THE LOCAL GAS CODE AND/OR APPLICABLE LOCAL ORDINANCES AND AMENDMENTS.
- O. ALL BELOW GRADE NATURAL GAS PIPING SHALL BE MEDIUM DENSITY POLYETHYLENE (PE) MEETING ASTM D2513 AS MANUFACTURED BY GASTITE WITH JOINING SYSTEM AS MANUFACTURED BY CON-STAB. TRANSITIONS FROM ABOVE GRADE RIDGID PIPING TO PE BELOW GRADE PIPING SHALL BE MADE WITH ANODE-LESS RISER ASSEMBLY AS MANUFACTURED BY CON-STAB.
- P. EXPOSED SUPPORTS AND ATTACHMENTS SHALL BE STAINLESS STEEL, CHROME OR CHROME PLATED. GALVANIZED ATTACHMENTS WILL NOT BE ACCEPTED.
- Q. USE MATERIALS SPECIFIED ON THESE PLANS. SUBSTITUTIONS ARE ALLOWED ONLY IF SPECIFIED MATERIALS ARE UNAVAILABLE. PRODUCT SUBSTITUTIONS WILL NOT BE ACCEPTED WITHOUT PRIOR APPROVAL. ALL WATER PIPING, FITTINGS, FIXTURES AND ACCESSORIES SHALL BE CERTIFIED LEAD FREE AS DEFINED IN, AND PER THE INTENT OF, THE "REDUCTION IN LEAD IN DRINKING WATER ACT".

PART II - EXECUTION (C15100)

2.01 TRENCHING (C15100)

- A. EXCAVATION, BACKFILLING, AND TRENCH WORK SHALL BE DONE IN ACCORDANCE WITH LATEST O.S.H.A. AND APPLICABLE SAFETY STANDARDS.
- B. PROVIDE NECESSARY SHORING AND CLEANING TO KEEP TRENCHES IN GOOD WORKING CONDITION, INCLUDING PUMPING OUT WATER.
- C. IN MOSTLY ROCK MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH CRUSHED LIMESTONE. GRAVEL SHALL BE REMOVED FROM UNDER PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.
- D. IN MOSTLY EARTH OR SAND MATERIAL, TRENCHES SHALL BE EXCAVATED TO 6" BELOW THE ELEVATION OF THE BOTTOM OF THE PIPES. AFTER EXCAVATION, TRENCH SHALL THEN BE FILLED TO THE PROPER ELEVATION WITH FINE SAND OR GRAVEL. TRENCH BOTTOM SHALL BE REMOVED AT PIPE BELLS SO THE PIPE RESTS FIRMLY ON THE TRENCH BOTTOM.
- E. BACKFILLING AND TAMPING SHALL BE CAREFULLY DONE BY HAND SIMULTANEOUSLY ALONG BOTH SIDES OF THE PIPE USING ROCK FREE EARTH, CRUSHED STONE OR SAND UNTIL THE PIPE IS COVERED TO A DEPTH OF AT LEAST 12". BACKFILL SHALL BE ACCOMPLISHED IN SUCCESSIVE 6" LAYERS. THE REST OF THE FILL-UP TO THE TOPSOIL LAYER MAY BE GRAVEL OR ROCK FREE EARTH.
- F. ACCEPTABLE SOIL MATERIALS FOR BACKFILL AND FILL SHALL BE FREE OF CLAY, ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS AND OTHER DELETERIOUS MATTER HAVING A PLASTICITY INDEX LESS THAN 30. BACKFILL SHALL BE ACCOMPLISHED IN LAYERS OF NOT MORE THAN 6" AND EACH LAYER SHALL BE COMPACTED. THE LAST 12" OF BACKFILL SHALL BE ROCK FREE TOPSOIL.
- G. SURFACE SHALL BE RESTORED TO ITS ORIGINAL CONDITION.

2.02 INSTALLATION (C15100)

- A. WATER PIPING IN EXTERIOR WALL SHALL BE INSTALLED ON THE HEATED SIDE OF WALL INSULATION.
- B. EXPOSED HOT AND COLD WATER TRIM FITTINGS AND ACCESSORIES IN FINISHED AREAS SHALL BE CHROME FINISHED.
- C. ACCEPTABLE METHODS OF PIPE SUPPORT WITHIN WALLS SHALL BE THE SUMNER SYSTEM, POSIFIX, STAKFIX, PIPEFIX, HOLDRITE OR CHANNEL.
- D. PROVIDE J.R. SMITH OR APPROVED EQUAL SHOCK ABSORBERS #5005 THRU 5050 SIZE AS RECOMMENDED BY MANUFACTURER INSTALLED ON HOT AND COLD WATER BRANCH LINES CONTAINING SINGLE LEVER FAUCETS, FLUSH VALVES OR EQUIPMENT WITH QUICK CLOSING VALVES BETWEEN THE LAST TWO FIXTURES AS SHOWN ON THE CONTRACT DRAWINGS. SHOCK ABSORBERS SERVICING FIXTURES WITH FLUSH VALVES SHALL BE SECURELY ANCHORED IN THEIR VERTICAL POSITION.
- E. SANITARY WASTE LINES SHALL BE UNIFORMLY GRADED TO ELEVATIONS SHOWN. IF NO ELEVATIONS ARE GIVEN, SEWERS SHALL BE PITCHED NOT LESS THAN 1/4" PER FOOT FOR ALL PIPING 2-1/2" IN DIAMETER AND SMALLER AND 1/8" PER FOOT FOR ALL PIPING 3" IN DIAMETER AND LARGER.
- F. STORM PIPING SHALL BE SLOPED AT 1/4" PER FT (2%) UNLESS NOTED OTHERWISE ON PLANS.
- G. SUPPORT HORIZONTAL PIPING ACCORDING TO LOCAL PLUMBING CODE. HANGER RODS SHALL BE SIZED AS FOLLOWS:

NOMINAL PIPE SIZE (IN)	MINIMUM HANGER DIAMETER (IN)
1/2	3/8
3/4 TO 1-1/2	3/8
2 TO 2-1/2	3/8
3 TO 6	1/2
- H. HANGERS FOR PIPING GREATER THAN 1" SHALL PASS OVER THE INSULATION. PROVIDE SADDLES FOR INSULATED PIPING.
- I. INSULATION SHALL BE APPLIED WITH JOINTS TIGHTLY BUTTED. OPEN CRACKS, VOIDS AND DEPRESSIONS SHALL BE FILLED WITH HYDRAULIC SETTING CEMENT. LAPPING MATCHING THE FINISH SHALL BE PASTED NEATLY OVER JOINTS. FITTINGS AND VALVES SHALL BE INSULATED WITH THE SAME TYPE.
- J. PROVIDE AND INSTALL A CUT-OFF VALVE, UNION AND FULL SIZE DIRT LEG AT CONNECTION TO EACH GAS-FIRED PIECE OF EQUIPMENT. INSTALL PIPING AT AND AROUND EQUIPMENT SO AS TO NO WAY OBSTRUCT EQUIPMENT ACCESS PANELS AND/OR ACCESS DOORS.
- K. COORDINATE ABOVE-CEILING PIPING LOCATIONS AND ROUTING WITH HVAC CONTRACTOR AND M-SHEETS PRIOR TO INSTALLATION. ALL MAIN DUCT TRUNK LOCATIONS SHALL TAKE PRIORITY. PIPING MAY REQUIRE REMOVAL AND REINSTALLATION AT PLUMBING CONTRACTOR'S EXPENSE IF PIPING OBSTRUCTS THE M-SHEET DUCT LAYOUT AS SHOWN OR PREVENTS ACCESS TO GREASE DUCT CLEANOUT OPENINGS.
- L. ALL GAS PIPING ABOVE ROOF SHALL BE CLEANED FREE OF RUST AND PAINTED WITH COAT OF ZINC RUST PRIMER AND ONE COAT OF ALUMINUM BASE PAINT. METER AND GAS RISER SHALL BE PRIMED AND PAINTED TO MATCH BUILDING.

2.03 TESTING (C15100)

- A. POTABLE WATER PIPING SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.
- B. THE POTABLE WATER SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY BY OPENING OUTLETS AND FLOWING WATER UNTIL IT RUNS CLEAR. AFTER PIPE CLEANING IS COMPLETED, THE STRAINERS SHALL BE REMOVED, CLEANED, AND REPLACED. THEN THE ENTIRE POTABLE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.
- C. THE SANITARY WASTE SYSTEM SHALL BE FLUSHED OUT PROGRESSIVELY WITH FLOWING WATER UNTIL IT RUNS CLEAR.
- D. THE ENTIRE SANITARY WASTE SYSTEM AND STORM DRAINAGE SYSTEM SHALL BE PRESSURE TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.
- E. NATURAL GAS PIPING SHALL BE LEAK TESTED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND MANUFACTURERS RECOMMENDATIONS.

PART III - MANUFACTURERS

3.01 PRODUCTS - PIPING SYSTEMS, ETC (C15100)

- A. HYDRANTS, CARRIERS, DRAINS, AND SHOCK ABSORBERS: ZURN. ACCEPTABLE ALTERNATES: JAY R. SMITH, JONES STEPHENS CORP, WATTS, OR JOSAM.
 - B. ALTERNATES TO ZURN (ZRN) FIXTURES: ONLY AS SHOWN ON PLANS. APPROVED JAY R. SMITH (JRS), WATTS (WTS), MODEL NUMBERS LISTED ON FIXTURE SCHEDULE, THIS SHEET.
- 3.02 PRODUCTS - RESTROOM FIXTURES PORCELAIN & VALVES (C15405)**
- A. PREFERRED FIXTURES: TOTO. NO EXCEPTION.
 - B. ALTERNATE FIXTURES: ONLY AS SHOWN ON PLANS.
 - C. FITTINGS: AS SPECIFIED ON THE PLANS. NO SUBSTITUTIONS ALLOWED.
 - D. FLUSH VALVES AND LAVATORY FAUCETS: TOTO MANUFACTURING. NO SUBSTITUTIONS ALLOWED.
 - E. PREFERRED TOILET SEATS: TOTO. ALTERNATE TOILET SEATS: CHURCH, BEMIS, AND BENEKE.
 - F. FLOOR SINKS: ZURN WITH ALUMINUM SEDIMENT BUCKETS. NO SUBSTITUTIONS ALLOWED.

2. PLUMBING GENERAL NOTES

DRAIN WASTE AND VENT NOTES

1. COORDINATE INSTALLATION OF SANITARY PIPING WITH FOOTINGS IN THE FIELD. SLEEVE PENETRATIONS IN FOOTINGS WITH PVC.
2. COORDINATE VENT TERMINAL LOCATIONS WITH FRESH AIR HOODS ON ROOFTOP EQUIPMENT SO AS TO MAINTAIN MINIMUM 15'-0" CLEARANCE.
3. ALL UNDERGROUND VENT PIPING TO BE 2" DIAMETER MIN U.N.O.
4. ALL BELOW SLAB SANITARY AND GREASE WASTE PIPING SHALL BE 3" DIAMETER U.N.O.

WATER DISTRIBUTION NOTES

1. FOR WATER HEATER INSTALLATION POSITION VALVES AND TRIM IN WATER HEATER CLOSET SUCH THAT VISIBLE OBSERVATION OF VALVES AND TRIM IS UNOBSTRUCTED AND SUCH THAT ACCESS FOR OPERATION OR REPAIR IS POSSIBLE WITHOUT USE OF STEP LADDERS OR ANY NEED TO DISASSEMBLE ANY COMPONENTS.
2. ALL WATER PIPING INSTALLED WITHIN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE INSULATION.
3. SEE KITCHEN DRAWINGS FOR KITCHEN EQUIPMENT WATER PIPING ROUGH- IN LOCATIONS AND ELEVATIONS.
4. SEE DRAIN, WASTE AND VENT ISOMETRIC FOR VENT PIPING.
5. WATER HEATER PIPING IS SHOWN FOR BRADFORD WHITE. ADJUST PIPING AS NEEDED TO ACCOMMODATE OTHER CONNECTION POINTS WHEN ALTERNATE MODELS ARE PROVIDED.
6. ALL OVERHEAD WATER PIPING SHALL BE LOCATED ABOVE THE CEILING. RUN WATER PIPING THROUGH JOIST WEBBING. COORDINATE ALL DROP LOCATIONS WITH OTHER TRADES.

CANOPY NOTES

1. COORDINATE NEW WORK WITH EXISTING CONDUIT, STRUCTURE, AND PIPING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
2. COORDINATE LOCATION AND RESPONSIBILITIES FOR UNDERGROUND PIPING AND ASSOCIATED TRENCHING WITH GENERAL CONTRACTOR PRIOR TO START OF WORK.
3. EXPOSED GAS PIPING SHALL BE PAINTED BY GENERAL CONTRACTOR.
4. ACTUAL NUMBER OF GAS INFRARED HEATERS WILL BE DETERMINED BY SITE-SPECIFIC CANOPY LAYOUT AND EQUIPMENT LOCATIONS, AS INDICATED ON ARCHITECTURAL PLANS.

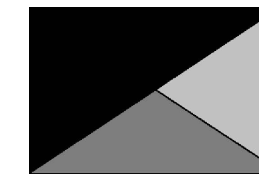
BEVERAGE CONDUIT NOTES

1. ROUTE BEVERAGE SYSTEM PIPING OVERHEAD FROM THE BEVERAGE RACK TO DRINK TOWERS IN FOUR (4)-6" DIA SCH 40 PVC DWV CONDUITS. ALL CONDUIT SHALL BE HELD TIGHT TO STRUCTURE AND SUPPORTED WITH THREADED ROD AND CLEVIS HANGERS AT INTERVALS SHOWN IN SPECIFICATIONS FOR HORIZONTAL OVERHEAD PIPING. COORDINATE ROUTING WITH THE GENERAL CONTRACTOR TO AVOID MECHANICAL AND ELECTRICAL SYSTEMS. SEE 1/P-101 AND 1/P-104 FOR BELOW-SLAB BEVERAGE CONDUIT.
2. COORDINATE ROUTING OF ALL CONDUITS WITH HVAC DUCT IN KITCHEN. SEE SHEET M-101 FOR LOCATION OF AC UNITS AND DUCT ROUTING.
3. TURN THE 6" DIA CONDUIT DOWN THROUGH THE CEILING AT THE BEVERAGE RACK AND PROVIDE CHROMED ESCUTCHEONS AT CEILING PENETRATIONS. TERMINATE OPPOSITE END ABOVE CEILING WHERE SHOWN ON PLANS.
4. AT 4" DIA CONDUIT DROP IN WALL, PROVIDE 1/8TH BEND FITTING WITH SHORT PIPE STUB AT BASE OF DROP. CUT STUB AND FITTING FLUSH WITH FINISHED WALL.
5. FOR BEVERAGE CONDUIT DROPS AT WALLS WITH SHEATHING EXTENDED ABOVE THE CEILING, PROVIDE APPROPRIATE FITTING AT UPPER END OF CONDUIT DROP TO EXTEND CONDUIT THROUGH SHEATHING.
6. INSTALL CONTINUOUS CONDUIT FROM CO2 FILL-BOX LOCATION TO BULK CO2 TANK AS SHOWN ON PLANS AND DETAILS. COORDINATE 4" CONDUIT WALL STUB INSTALLATION CLOSELY WITH GENERAL CONTRACTOR AND BRICK MASON. PRIOR TO COVERING UP OF CONDUIT, VERIFY WITH GENERAL CONTRACTOR THE FULL LENGTH OF FILL/VENT TUBING MAY BE INSTALLED AND SUBSEQUENTLY REMOVED FROM CONDUIT. SEE PLAN ON 1/P-104 AND DETAIL 9/P-501.

LEGEND			
GIH#1	GAS INFRARED HEATER #1 (TYP.)	B/G	BELOW GRADE
	NEW GAS PIPING ABOVE GRADE	EC	ELECTRICAL CONTRACTOR
	NEW GAS PIPING BELOW GRADE	MC	MECHANICAL CONTRACTOR



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02/02/24

CHICK-FIL-A
RELO HULL STREET FSU

1280 BRIDGEWOOD CROSSING
 Midlothian, VA 23112

FSR#05416

BUILDING TYPE / SIZE: P14 LE BN
 RELEASE: 23.02

CONSTRUCTION

REVISION	SCHEDULE	NO.	DATE	DESCRIPTION
1		02/05/2024	DESIGN	

CONSULTANT PROJECT #	23141.EH.S
DATE	09/18/23

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PLUMBING SPECIFICATIONS

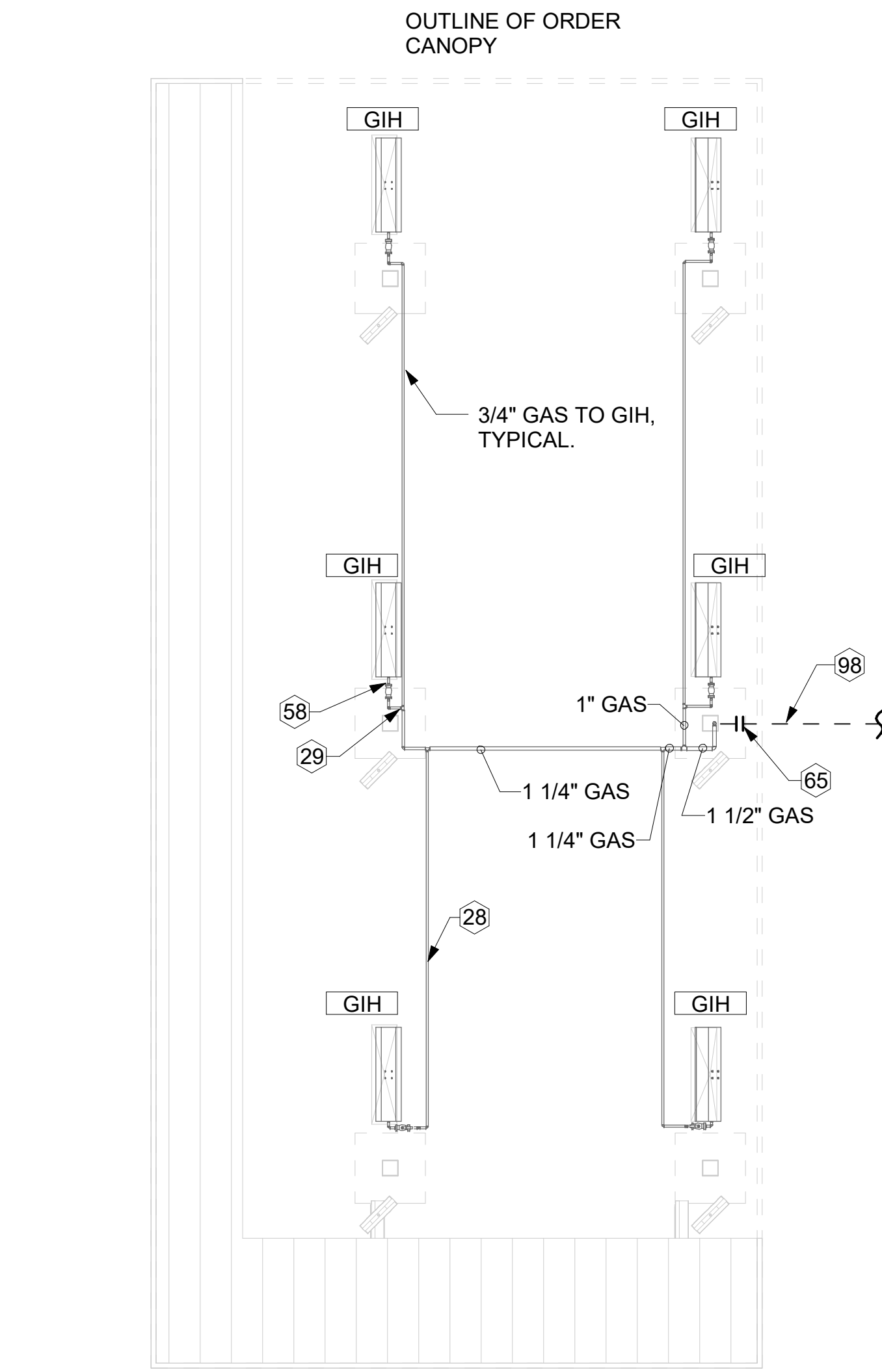
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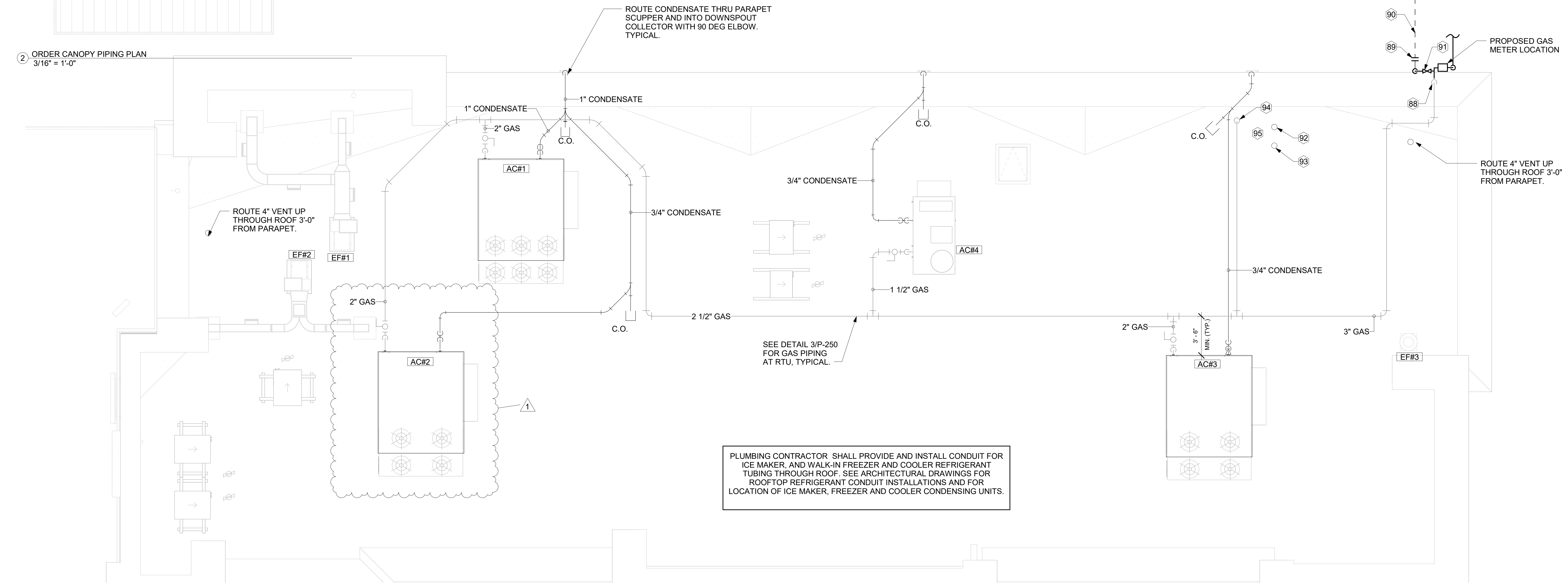
3. GAS LOAD SCHEDULE	
EQUIPMENT	GAS LOAD
AC#1	260,000 BTUS
AC#2	360,000 BTUS
AC#3	360,000 BTUS
AC#4	150,000 BTUS
GIH (6 @ 50,000 BTU EA.)	300,000 BTUS
WATER HEATER	125,000 BTUS
TOTAL CONNECTED LOAD	1,555,000 BTUS
REMARKS:	1) EQUIVALENT TO 1,555.0 CFH 2) 7" W.C. DELIVERY PRESSURE 3) DEVELOPED LENGTH: 175 FT (METER TO AC#2)

KEY NOTES

- 28 GAS PIPING TO BE ROUTED ABOVE CANOPY, ON TOP OF STRUCTURAL MEMBERS, EXCEPT WHERE ROUTED DOWN THROUGH PENETRATIONS AS INDICATED.
- 29 GAS PIPING DOWN THROUGH DECK. WEATHERPROOF DECK PENETRATION PER DETAIL 6/P-502, TYPICAL.
- 58 SEE DETAIL 5/P-502 FOR PIPING AT GIH, TYPICAL.
- 65 GAS TRANSITION FITTING TO GAS PIPE STUB-OUT. GAS PIPING INSIDE COLUMN AND STUB-OUTS BY CANOPY MFR. JOIN UNDERGROUND POLYETHYLENE GAS PIPING TO TRANSITION FITTING WITH ELSTER PERMASERT COUPLING. CANOPY MFR'S EXPOSED STEEL PIPING BELOW GRADE SHALL BE PROTECTED WITH TWO COATS ASPHALT TUM BASE PAINT AND POLY SLEEVE.
- 88 TURN 3" GAS UP WITHIN WALL, THRU PARAPET AND ONTO ROOF.
- 89 ROUTE POLYETHYLENE GAS BELOW GRADE FROM THE METER. FOR TRANSITION FROM POLYETHYLENE PIPING BELOW GRADE TO STEEL AT THE METER, INSTALL ANODELESS RISER WITH INTEGRAL CONSTAB PE-TO-IPS TRANSITION FITTING BY CONTINENTAL INDUSTRIES OR EQUAL BY ELSTER.
- 90 1-1/2" GAS BELOW GRADE TO ORDER CANOPY, SEE DETAIL 2 THIS SHEET.
- 91 PROVIDE FULL PORT BALL VALVE EQUAL TO APOLLO 50GB SERIES WITH WINGS HANDLE OPTION ABOVE GRADE AT THE METER. PROVIDE BRASS VALVE TAG WITH JACK CHAIN AT VALVE MARKED "SERVICE SHUTOFF FOR CANOPY HEATERS."
- 92 ROUTE WATER HEATER COMBUSTION AIR DUCT UP THROUGH ROOF PER MANUFACTURER'S RECOMMENDATIONS.
- 93 ROUTE WATER HEATER FLUE UP THROUGH ROOF PER MANUFACTURER'S RECOMMENDATIONS.
- 94 1" GAS DOWN THRU ROOF TO WATER HEATER. SEE DETAIL 8/P-502 FOR MORE INFORMATION ON CONSTRUCTION AND PENETRATION. WHEN CONTRACTOR OPTS TO PROVIDE ALTERNATIVE WATER-HEATER, INCREASE PIPE SIZE AS NEEDED PER CODE.
- 95 SEE ARCHITECTURAL DETAILS FOR ROOFTOP PIPE PENETRATIONS.
- 98 1-1/2" GAS B/G TO METER SEE 1/P-105L OR 1/P-105T.



2 ORDER CANOPY PIPING PLAN
3/16" = 1'-0"

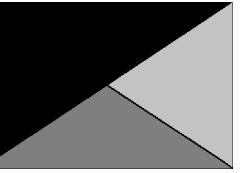


1 GAS AND CONDENSATE PLAN - LENNOX
1/4" = 1'-0"

PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT FOR ICE MAKER, AND WALK-IN FREEZER AND COOLER REFRIGERANT TUBING THROUGH ROOF. SEE ARCHITECTURAL DRAWINGS FOR ROOFTOP REFRIGERANT CONDUIT INSTALLATIONS AND FOR LOCATION OF ICE MAKER, FREEZER AND COOLER CONDENSING UNITS.



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02/02/24

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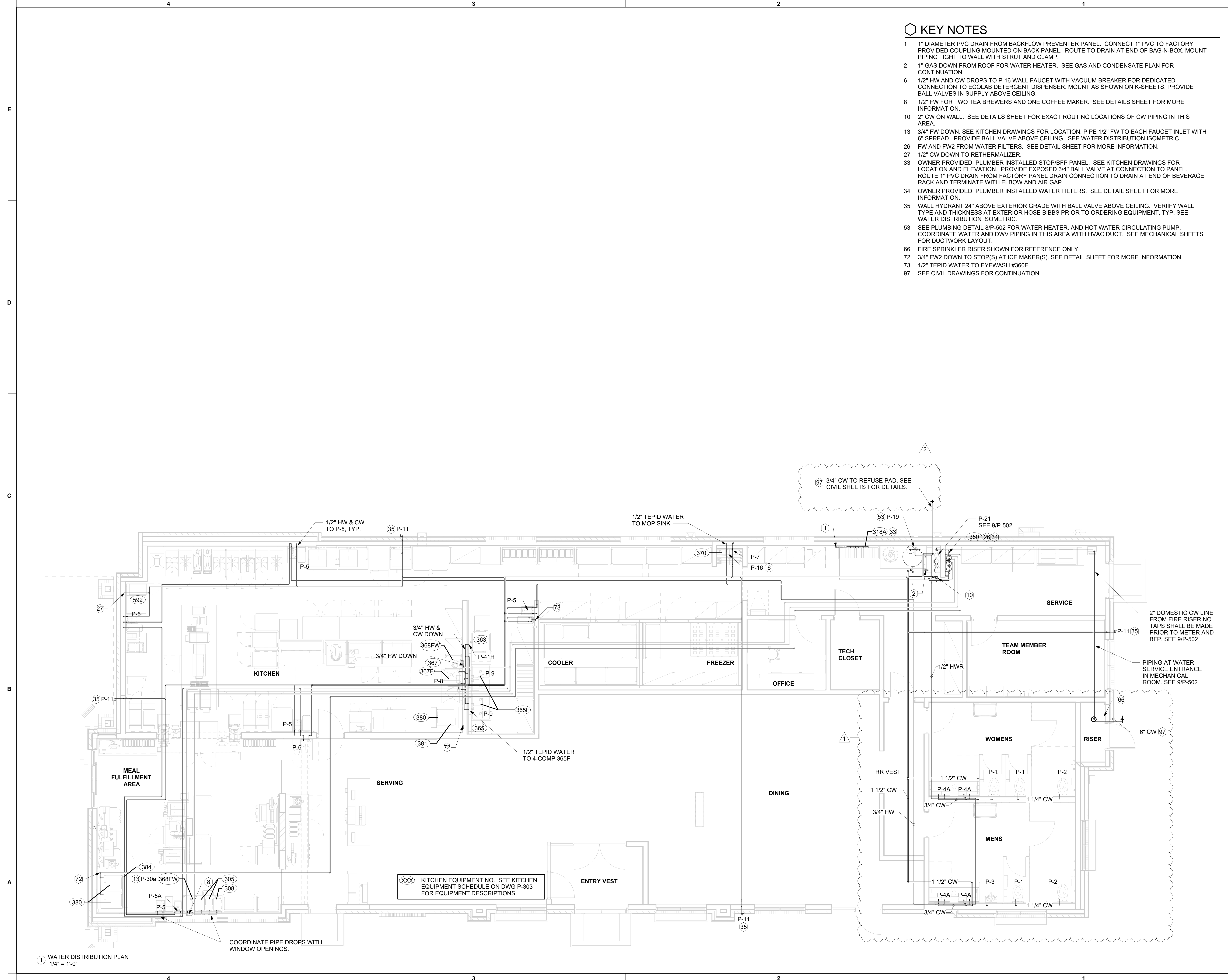
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GAS AND CONDENSATE PLAN

SHEET NUMBER

P-105L

2/19/2024 1:15:27 PM Autodesk Docs://VA_05416_RELO Hull Street FSU_P1B.MT 40-LE-05416-P-103-WATER DISTRIBUTION PLAN



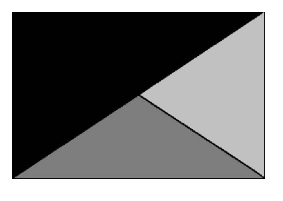
KEY NOTES

- 1 1" DIAMETER PVC DRAIN FROM BACKFLOW PREVENTER PANEL. CONNECT 1" PVC TO FACTORY PROVIDED COUPLING MOUNTED ON BACK PANEL. ROUTE TO DRAIN AT END OF BAG-N-BOX. MOUNT PIPING TIGHT TO WALL WITH STRUT AND CLAMP.
- 2 1" GAS DOWN FROM ROOF FOR WATER HEATER. SEE GAS AND CONDENSATE PLAN FOR CONTINUATION.
- 6 1/2" HW AND CW DROPS TO P-16 WALL FAUCET WITH VACUUM BREAKER FOR DEDICATED CONNECTION TO ECOLAB DETERGENT DISPENSER. MOUNT AS SHOWN ON K-SHEETS. PROVIDE BALL VALVES IN SUPPLY ABOVE CEILING.
- 8 1/2" FW FOR TWO TEA BREWERS AND ONE COFFEE MAKER. SEE DETAILS SHEET FOR MORE INFORMATION.
- 10 2" CW ON WALL. SEE DETAILS SHEET FOR EXACT ROUTING LOCATIONS OF CW PIPING IN THIS AREA.
- 13 3/4" FW DOWN. SEE KITCHEN DRAWINGS FOR LOCATION. PIPE 1/2" FW TO EACH FAUCET INLET WITH 6" SPREAD. PROVIDE BALL VALVE ABOVE CEILING. SEE WATER DISTRIBUTION ISOMETRIC.
- 26 FW AND FW2 FROM WATER FILTERS. SEE DETAIL SHEET FOR MORE INFORMATION.
- 27 1/2" CW DOWN TO RETHERMALIZER.
- 33 OWNER PROVIDED. PLUMBER INSTALLED STOP/BFP PANEL. SEE KITCHEN DRAWINGS FOR LOCATION AND ELEVATION. PROVIDE EXPOSED 3/4" BALL VALVE AT CONNECTION TO PANEL. ROUTE 1" PVC DRAIN FROM FACTORY PANEL DRAIN CONNECTION TO DRAIN AT END OF BEVERAGE RACK AND TERMINATE WITH ELBOW AND AIR GAP.
- 34 OWNER PROVIDED. PLUMBER INSTALLED WATER FILTERS. SEE DETAIL SHEET FOR MORE INFORMATION.
- 35 WALL HYDRANT 24" ABOVE EXTERIOR GRADE WITH BALL VALVE ABOVE CEILING. VERIFY WALL TYPE AND THICKNESS AT EXTERIOR HOSE BIBBS PRIOR TO ORDERING EQUIPMENT, TYP. SEE WATER DISTRIBUTION ISOMETRIC.
- 53 SEE PLUMBING DETAIL 8/P-502 FOR WATER HEATER, AND HOT WATER CIRCULATING PUMP. COORDINATE WATER AND DWV PIPING IN THIS AREA WITH HVAC DUCT. SEE MECHANICAL SHEETS FOR DUCTWORK LAYOUT.
- 66 FIRE SPRINKLER RISER SHOWN FOR REFERENCE ONLY.
- 72 3/4" FW2 DOWN TO STOP(S) AT ICE MAKER(S). SEE DETAIL SHEET FOR MORE INFORMATION.
- 73 1/2" TEPID WATER TO EYEWASH #360E.
- 97 SEE CIVIL DRAWINGS FOR CONTINUATION.



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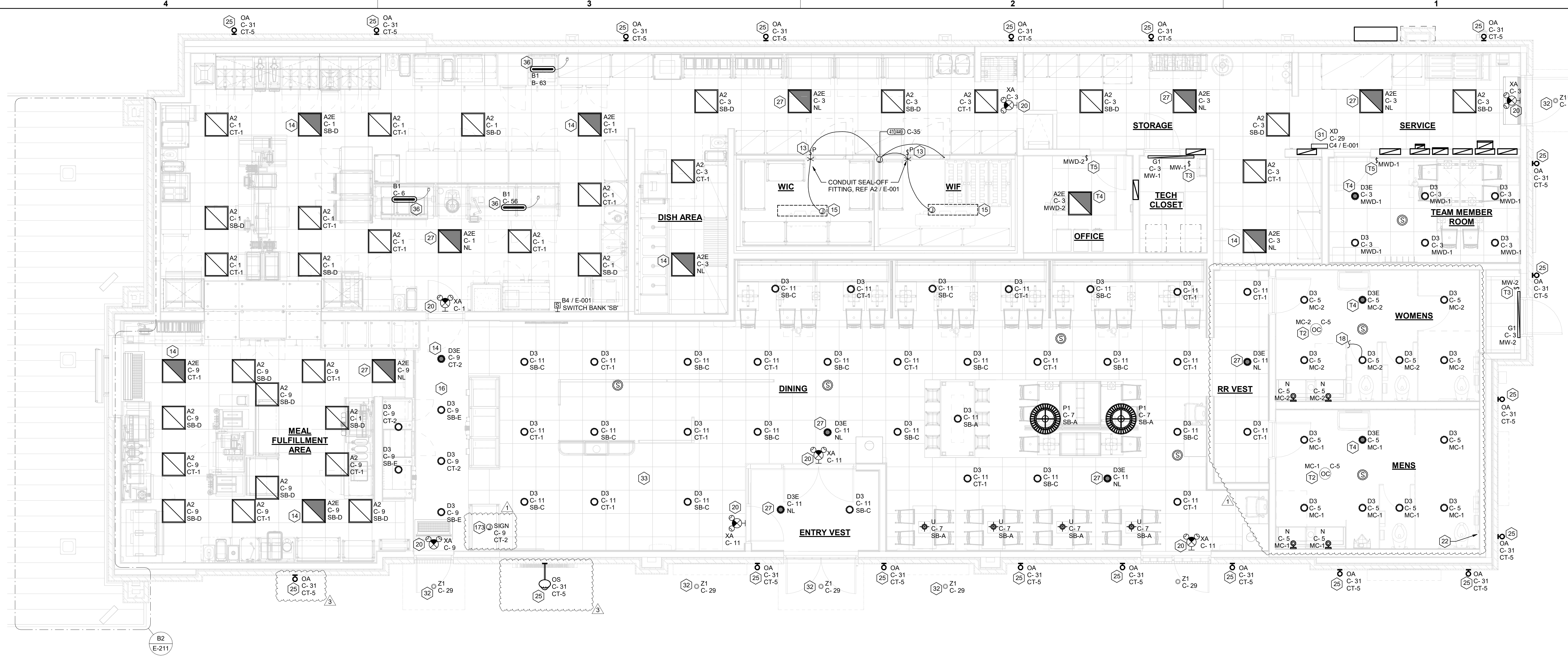
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CHICK-FIL-A
RELO HULL STREET FSU
12280 BRIDGEWOOD CROSSING
Midlothian, VA 23112

FSR#05416
BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.02

CONSTRUCTION		
REVISION	SCHEDULE	DESCRIPTION
1	02/05/2024	DESIGN
2	02/07/2024	BUILDING

CONSULTANT PROJECT #	23141.EH.S
DATE	09/18/23
DRAWN BY	CH
CHECKED BY	CH
DATE	09/18/23
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WATER DISTRIBUTION PLAN	
SHEET NUMBER	P-103



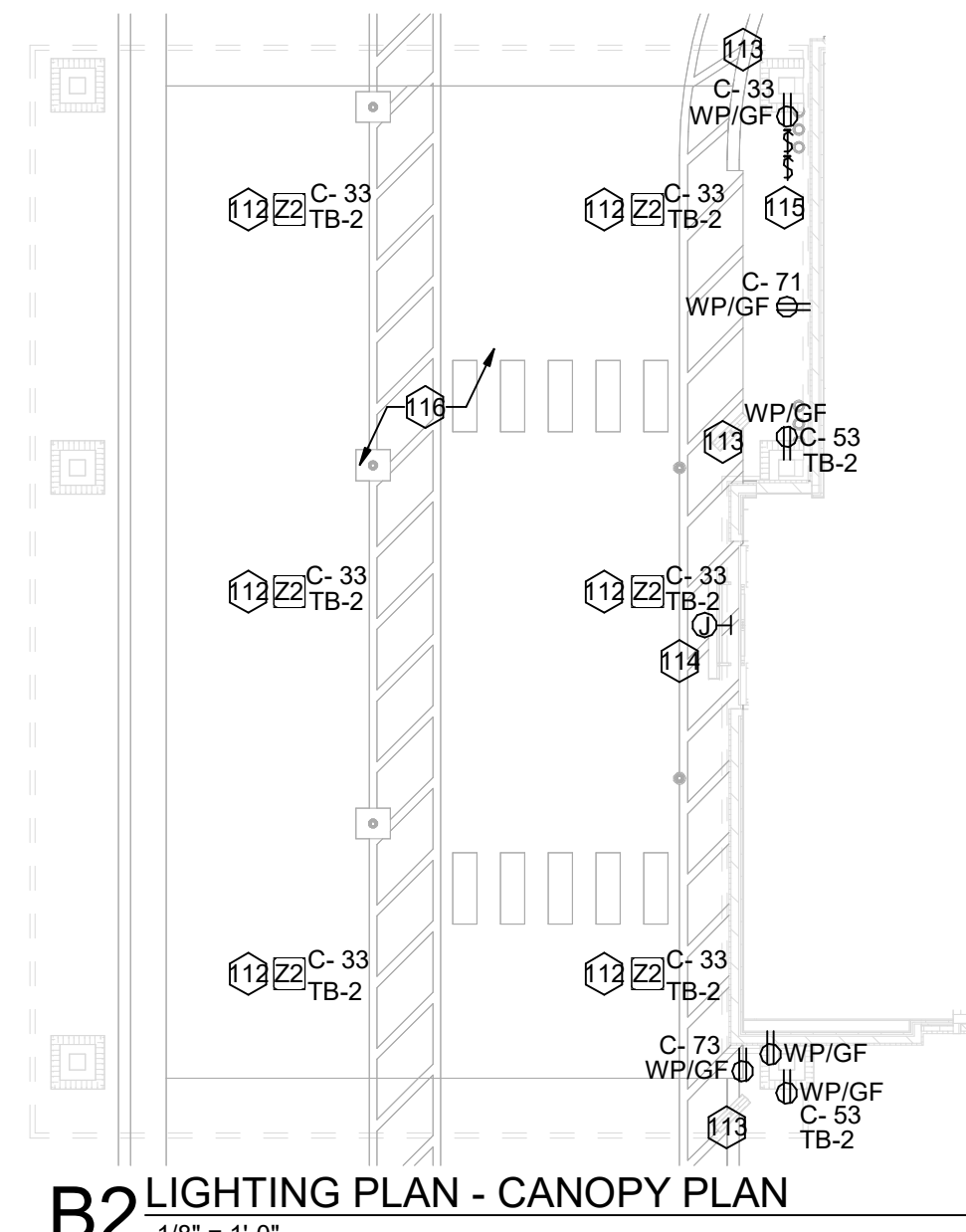
C1 LIGHTING PLAN
1/4" = 1'-0"

ELECTRICAL KEYNOTES

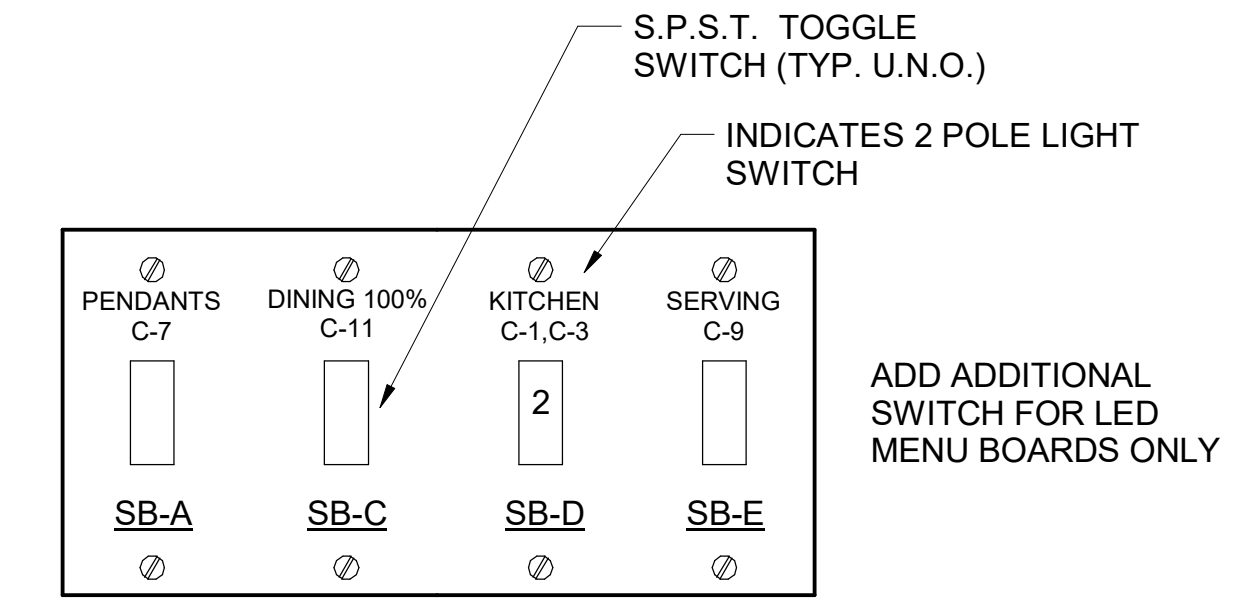
- 13 FOR CONTROL OF LIGHTING FIXTURE IN WALK-IN COOLER AND FREEZER. SWITCH FURNISHED WITH EQUIPMENT, INSTALLED BY ELECTRICAL CONTRACTOR.
- 14 CONNECT FIXTURE SO THAT BATTERY PACK IS NOT SWITCHED WITH LIGHTS, BUT ALL LAMPS ARE SWITCHED.
- 15 FOR CONNECTION TO LIGHTING FIXTURE IN THE WALK-IN COOLER AND FREEZER WHICH IS FURNISHED WITH EQUIPMENT. CONTRACTOR SHALL ROUGH-IN AND CONNECT ALL FIXTURES AS REQUIRED BY THE EQUIPMENT MANUFACTURER.
- 16 THE LIGHT FIXTURES IN THE MEAL FULFILLMENT AREA ARE PROVIDED WITH LAMP SHIELDING VIA A LENS.
- 18 TO THE TOILET EXHAUST FAN ON ROOF. REFER TO THE ELECTRICAL ROOF PLAN.
- 20 THIS FIXTURE SHALL NOT BE SWITCHED. CONNECT TO CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS.
- 22 SEE THE ELECTRICAL ROOF PLAN FOR LOCATION OF TYPE 'OC' ROOF MOUNTED FLAG POLE LIGHT. FIXTURE TO BE CONNECTED TO CIRCUIT C-29 THRU THE CFA-T500 CONTROL PANEL CONTACTOR #9 (AHEAD OF THE INVERTER, NOT THRU THE INVERTER.)
- 25 ROUTE THROUGH CONTROL PANEL CFA-T500 AND CONTROLLED BY OCCUPIED SWITCH AND PHOTOCELL.
- 27 CONNECT LIGHTING FIXTURE SO THAT LAMP BALLAST OR DRIVER AND EMERGENCY BATTERY PACK ARE NOT SWITCHED. 'NL' ADJACENT TO FIXTURE INDICATES THAT FIXTURE SHALL BE ON 24 HOURS.
- 31 TYPE 'XD' INVERTER CABINET TO BE WALL MOUNTED AT THE CEILING AND CONNECTED TO CIRCUIT C-29 THRU THE CFA-T500'S CONTACTOR #9 (DUSK TO DAWN CONTROL). CONNECT WITH BOTH A CONTROLLED (VIA THE CONTACTOR FOR LIGHTS ON AT DUSK AND OFF AT DAWN) LEG AND AN UNSWITCHED LEG FROM THE BATTERY IN THE INVERTER. WHEN POWER IS DISRUPTED ON THE UNSWITCHED LEG, THEN THE INVERTER'S BATTERY WILL ENERGIZE THE LIGHTS CONNECTED TO THE INVERTER NO MATTER THE TIME OF DAY. PROVIDE CONNECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 32 CANOPY LIGHTS PROVIDED BY THE CANOPY SUPPLIER INTEGRAL WITH THE CANOPY. ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN CONDUIT CHASE AT CL OF AWNING AND AT 10'-0" AFF (VERIFY) AND CONNECT THE 120V CIRCUIT TO THE 'XD' INVERTER UNIT. COORDINATE LOCATIONS OF LIGHTS AND ROUGH-IN REQUIREMENTS WITH THE CANOPY SUPPLIER. LIGHTS WILL COME ON AT DUSK, TURN OFF AT DAWN, AND BE ENERGIZED WHENEVER THERE IS A POWER OUTAGE.
- 33 REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATIONS OF PENDANTS, DOWNLIGHTS, ACCENTS LIGHTS, AND OTHER CEILING MOUNTED LIGHT FIXTURES.
- 36 PROVIDE A TYPE B1 SHELF MOUNTED TASK LIGHT FIXTURE. MOUNT LIGHT TO THE UNDERSIDE OF THE WIRE SHELVING. PROVIDE A CORD FROM THE FIXTURE(S) TO A SWITCH IN AN FS BOX MOUNTED TO THE SHELF. FROM FS BOX PROVIDE AN SO CORD WITH PLUG AND CONNECT TO THE GEN RECEPTACLE (WALL OR DROP CORD). SEE ENLARGED POWER PLAN FOR FURTHER INFORMATION.
- 112 CEILING LIGHT FIXTURE PROVIDED BY THE CANOPY SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 113 AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE A DUPLEX RECEPTACLE OUTLET (WITH IN-USE WP COVER PLATE) AT THE TOP OF THE COLUMN FLUSH MOUNTED IN THE CUT-OUT FOR THE FAN'S PLUG AND CORD CONNECTION.
- 114 INFRARED HEATER WITH INTEGRAL ON-OFF SWITCH PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.
- 115 PROVIDE ONE DUPLEX GFCI (WITH IN-USE WP COVER PLATE) AND 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 IN THE COLUMN IN FLUSH MOUNTED METAL SINGLE-GANG BOXES FOR LOCAL ON-OFF CONTROL OF THE FANS, HEATERS, AND CANOPY LIGHTS. SEE WIRING SCHEMATIC FOR FURTHER INFORMATION. ALL SURFACE (OR VISIBLE) ITEMS AND COVERPLATES TO BE FIELD PAINTED MATT BLACK.
- 116 ALL CONDUIT AND BOXES SHALL BE CONCEALED FROM NORMAL VIEW; IN WALLS OR ABOVE THE CANOPY (ON THE ROOF). MC CABLE (GALVANIZED STEEL WITH PVC JACKET) MAY BE USED INSIDE THE WALL FOR THE DEVICES, BUT MUST CONVERT TO IMC ABOVE THE CANOPY ROOF. (PROVIDE A NEMA 3R JUNCTION BOX ON THE ROOF SIDE OF THE CANOPY TO TRANSITION FROM MC CABLES IN WALL TO IMC CONDUIT ON THE ROOF.) ALL EXPOSED BOXES AND FITTINGS TO BE CAST-METAL NEMA 3R. REFER TO THE MECHANICAL SHEETS FOR CONDUIT MOUNTING DETAILS ON THE ROOF.
- 173 JUNCTION BOX MOUNTED ABOVE CEILING FOR ELECTRICAL CONNECTION TO PICK-UP COUNTER SIGNAGE. COORDINATE FINAL LOCATION WITH FURNITURE PLANS.

ELECTRICAL KEYNOTES

- T2 CEILING MOUNTED LINE VOLTAGE OCCUPANCY SENSOR. ROUTE LOCAL AREA LIGHTS THROUGH SENSOR.
- T3 LINE VOLTAGE OCCUPANCY SENSOR SWITCH. ROUTE LOCAL AREA LIGHTS THROUGH SENSOR.
- T4 EMERGENCY BATTERY PACK SHALL NOT BE SWITCHED OR ROUTED THROUGH ANY CONTROLS, BUT LIGHT SHALL BE CONTROLLED VIA OCCUPANCY OR DAYLIGHT CONTROLS.
- T5 LINE VOLTAGE 0-10V DIMMING OCCUPANCY SENSOR SWITCH. ROUTE LOCAL AREA LIGHTS THROUGH SENSOR.



B2 LIGHTING PLAN - CANOPY PLAN
1/8" = 1'-0"



NOTE: LOCATE JUNCTION BOXES IN CEILING SPACE ABOVE THE LOCATION OF THE SWITCHBANK FOR SPLICING OF LINE, LOAD, AND SWITCHED CONDUCTORS. PROVIDE GANGED BACKBOX FOR SWITCHES AS REQUIRED AND LABEL ALL CONDUCTORS SO AS TO INDICATE THEIR USE (LINE, LOAD, SWITCH), THE LOAD SERVED, AND THE CIRCUIT NUMBER.

LIGHTING FIXTURE (LUMINAIRE) SCHEDULE - CHICK-FIL-A P14 EDITION

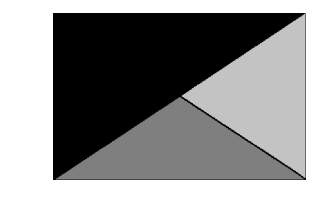
NOTE: NOT ALL FIXTURE TYPES ARE USED IN ALL OF THE P14 BUILDINGS. CONFIRM WITH THE LIGHTING VENDOR FOR ANY UPDATES TO THE CURRENT LIGHTING MANUFACTURER AND CATALOG NUMBER.

MARK	MANUFACTURER	CATALOG NUMBER	NO. LAMPS / TYPE	WATTS	VOLTS	MOUNTING	REMARKS
A2	COOPER/METALUX	22FP4240C	INTEGRAL WITH FIXTURE	39 VA	120 V	RECESSED	2X2 LED FLAT PANEL
AZE	COOPER/METALUX	22FP4240C	INTEGRAL WITH FIXTURE	39 VA	120 V	RECESSED	2X2 EMERGENCY LED FLAT PANEL
B1	COOPER/METALUX	2V73-DS-4-3-120V-L840-CD1-SSL-U	INTEGRAL WITH FIXTURE	32 VA	120 V	SURFACE	MOUNT LIGHT TO BTM OF OVERHEAD WIRE SHELVING WITH CORD & PLUG
D3	COOPER/RHALO	HC620010-HM612830-61NDC	INTEGRAL WITH FIXTURE	21 VA	120 V	RECESSED	LED DOWNLIGHT WITH CLEAR REFLECTOR & TRIM RATED 2000 LUMENS, 3000K COLOR TEMP
D3E	COOPER/RHALO	HC620010-HM612830-61NDCIEM	INTEGRAL WITH FIXTURE	21 VA	120 V	RECESSED	SAME AS 'D3' EXCEPT WITH EMERGENCY BATTERY PACK/INTEGRAL TEST SWITCH
G1	COOPER/METALUX	4SLSTP4040DD-UNV	INTEGRAL WITH FIXTURE	44 VA	120 V	SURFACE	4760 LUMEN 4 FOOT LENSED LED STRIPLIGHT. MTD ABOVE DOOR FRAME OR CEILING
N	MINKA	4531-267B	1-L-ED11A19827/D	11 VA	120 V	WALL	LAVATORY WALL SCONCE-SHADE POINTED DOWN W/ LED LAMP & CL ON LAVATORY
OA	PROGRESS LIGHTING	P9675-31 WITH P9799 TOP COVER LENS	2-(G) LED12P9675R9325	24 VA	120 V	WALL	5" DIAMETER, 14" HEIGHT, WET LOCATION, UP/DOWN CYLINDER W/ 12 WATT PAR30 3K INFL LED LAMPS
OC	HUBBELL	FL-42L-95-4K-7-N-J-K-DB (SEE NOTE 4)	INTEGRAL WITH FIXTURE	97 VA	120 V	PIPE	FLOODLIGHT MTD ON ROOF ON 2" PIPE SUPPORT (BY OTHERS) AND AIMED AT FLAG AFTER DARK
OD	COOPER/LUMARK	LUMINAIRE: PRV-A60D-UNV-"-SA-BZ	INTEGRAL WITH FIXTURE	163 VA	120 V	WALL	SEE SHEET E-102 FOR SITE LIGHTING SPECIFICATIONS
OK	HUBBELL	LNC-3LU-3K-3-1	INTEGRAL WITH FIXTURE	13 VA	120 V	WALL	LED WALLPACK W/ CENTERLINE OF FIXTURE AT 8" ABV 0" (FINISH FLOOR LINE)
OS	H-LITE MFG	H-18112-BK01B-13-BK01-13W-LED230/WBCM-M	LED	13 VA	120 V	WALL	GOOSENECK SIGN LIGHT FIXTURE WITH 24" ARM
P1	MEYCO	142776	2-LED11A19827/D	22 VA	120 V	PENDANT	31" DIA PEACH BASKET PENDANT WITH BTM AT 6'-8" AFF ABV TABLE, 8'-0" OTHERWISE
U	BESA LIGHTING	BES00298-060	FURNISHED	8 VA	120 V	PENDANT	RED FRIT GLASS, BRONZE CABLE & CANOPY, 6'-8" AFF
XA	COOPER/SURE-LITES	APCH7R	INTEGRAL WITH FIXTURE	4 VA	120 V	WALL	EXIT SIGN WITH BATTERY PACK AND TWO INTEGRAL ADJUSTABLE LAMPHEADS
XD	MULE LIGHTING	SPS-220/250-120/277	NONE	250 VA	120 V	WALL	INVERTER UNIT FOR EXTERIOR EGRESS LGT. ON AT DUSK, OFF AT DAWN, ON DURING PWR OUTAGE
Z1	COOPER/RHALO	SLD405930WH	INTEGRAL WITH FIXTURE	12 VA	120 V	RECESSED	LED DOWNLIGHT PROVIDED BY CANOPY SUPPLIER INSTALLED BY CANOPY SUPPLIER, CONNECTION BY ELECTRICAL CONTRACTOR
Z2	LSI	CRUS-SC-LED-LW30-UE-WHT	INTEGRAL WITH FIXTURE	74 VA	120 V	RECESSED	CANOPY LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR
* MC	SENSOR SWITCH	CMR-PDT-9	-	120V	CEILING	CEILING MOUNTED LINE VOLTAGE OCCUPANCY SENSOR WITH DUEL TECHNOLOGY, LOCATED IN RESTROOM.	
* MCL	SENSOR SWITCH	CMR-PDT-9	-	24V	CEILING	CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR FOR LOCAL RECEPTACLE CONTROLS.	
* MW	SENSOR SWITCH	WSX-WH	-	120V	WALL	WALL SWITCH OCCUPANCY SENSOR, AUTOMATIC ON AND OFF.	
* MWD	SENSOR SWITCH	WSX-PDT-DA-WH	-	120V	WALL	MANUAL ON / AUTOMATIC OFF OCCUPANCY SWITCH, 0-10V DIMMING	
* PC	SENSOR SWITCH	RMR-PC-ADC	-	120V	WALL	RECESSED AUTOMATIC PHOTOCELL FOR DAYLIGHT CONTROLS. FIELD COORDINATE MTD LOCATION.	
* PP	SENSOR SWITCH	PP20	-	120V	JUNCTION BOX	POWER PACK FOR OCCUPANCY SENSOR MCL AND RECEPTACLE CONTROL, AUTO ON / AUTO OFF.	

NOTES:
 1. LUMINAIRE UTILIZING DOUBLE ENDED LAMPS AND CONTAIN BALLASTS THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OF EXTERNAL TO EACH LUMINAIRE PER NEC 410.130(G).
 2. THE LIGHTING FIXTURE PACKAGE IS AVAILABLE THROUGH A NATIONAL ACCOUNT PROGRAM. REFER TO THE ELECTRICAL SPECIFICATIONS SHEET SECTION C16900 FOR VENDOR INFORMATION.
 3. THE ASTERISK (*) BESIDE THE FIXTURE MARK IN THE ABOVE SCHEDULE INDICATES THE FIXTURE IS A NON-PROTOTYPED LIGHT FIXTURE PER THE CFA NATIONAL P14 PROTOTYPE.
 4. IF TYPE OC IS GROUND MOUNTED IN LIEU OF ROOF MOUNTED, PROVIDE EITHER THE FLL-VISOR-DB (VISOR) OR THE FLL-LOUVER-BL (LOUVER) FOR GLARE CONTROL.



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02/15/24

CHICK-FIL-A
 HULL STREET AT
 1280 BRIDGEWOOD CROSSINGS
 DRIVE
 MIDLOTHIAN, VA 23112

FSR#05416

BUILDING TYPE / SIZE: P14 LE BN
 RELEASE: 23.02

PRINTED FOR: **CONSTRUCTION**

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	02/05/2024	DESIGN
3	02/14/24	COMMENTS

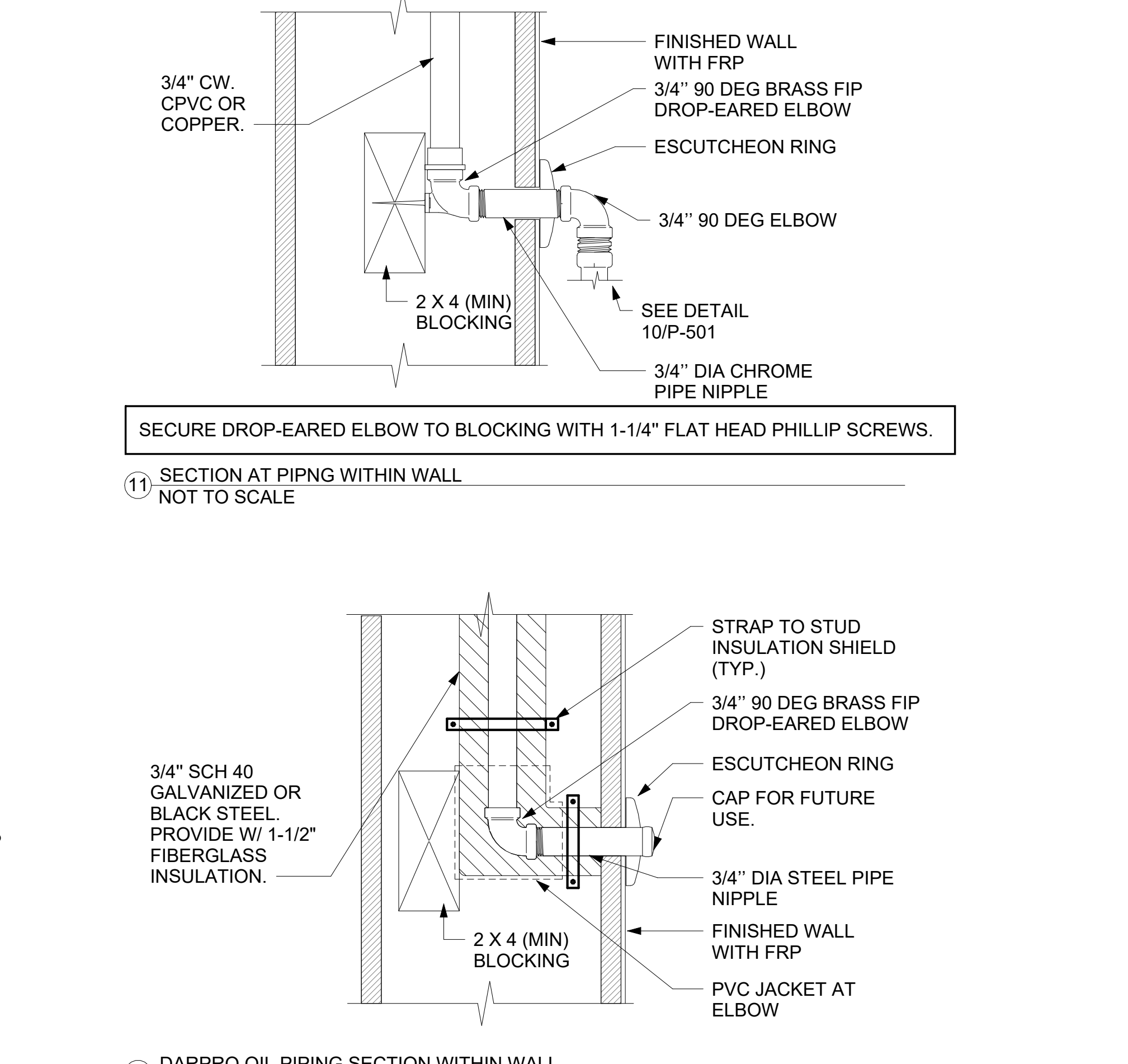
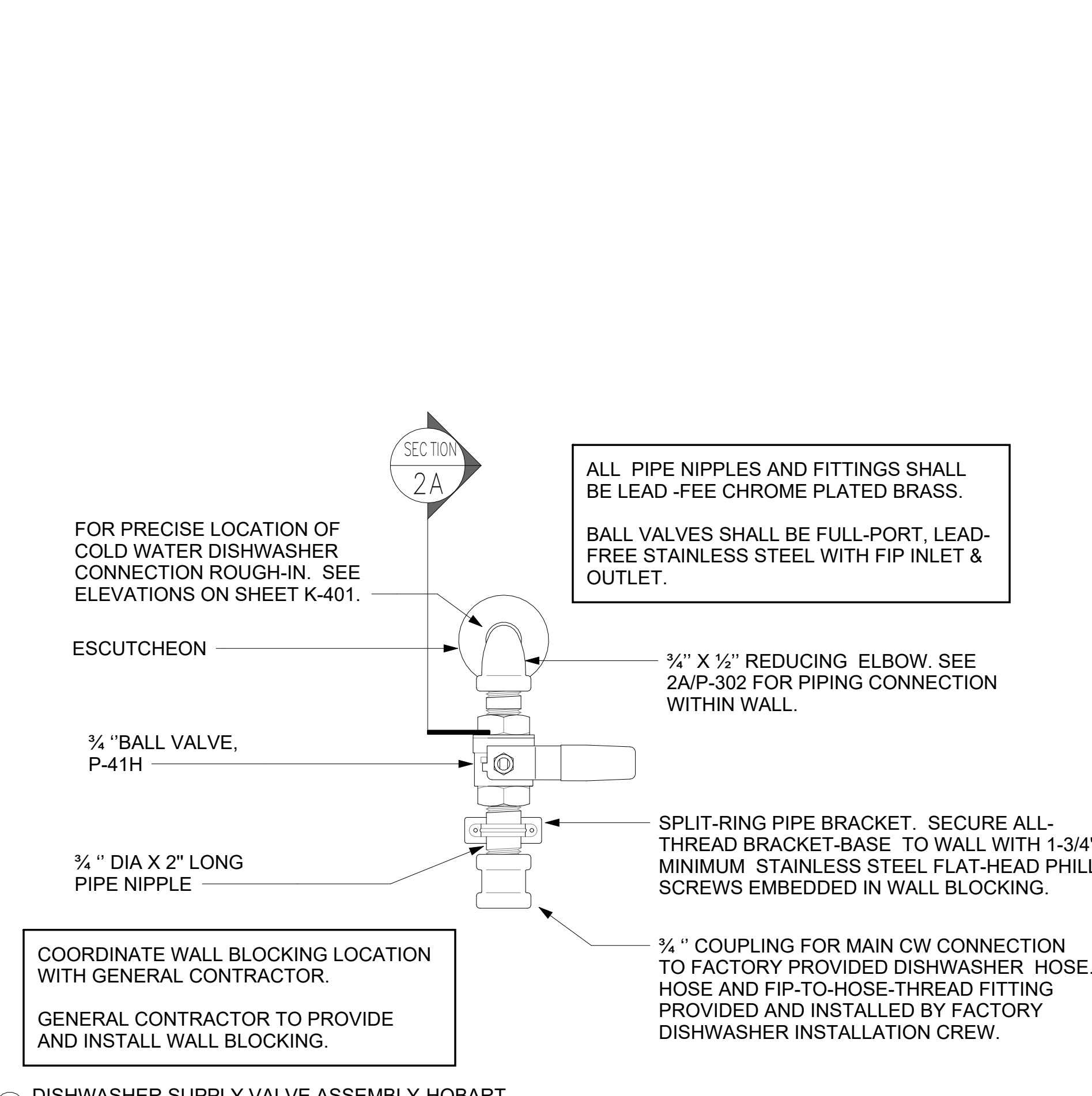
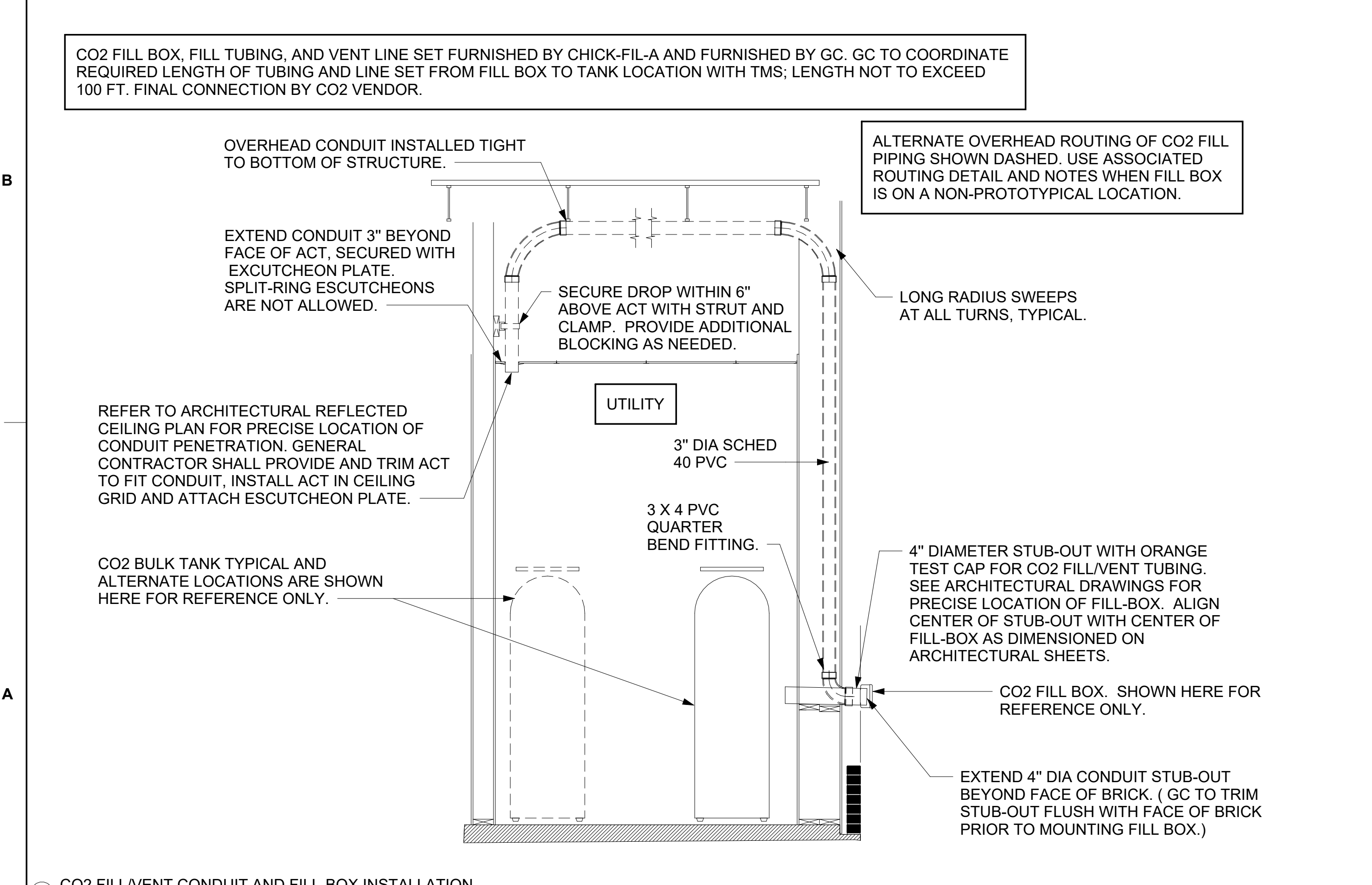
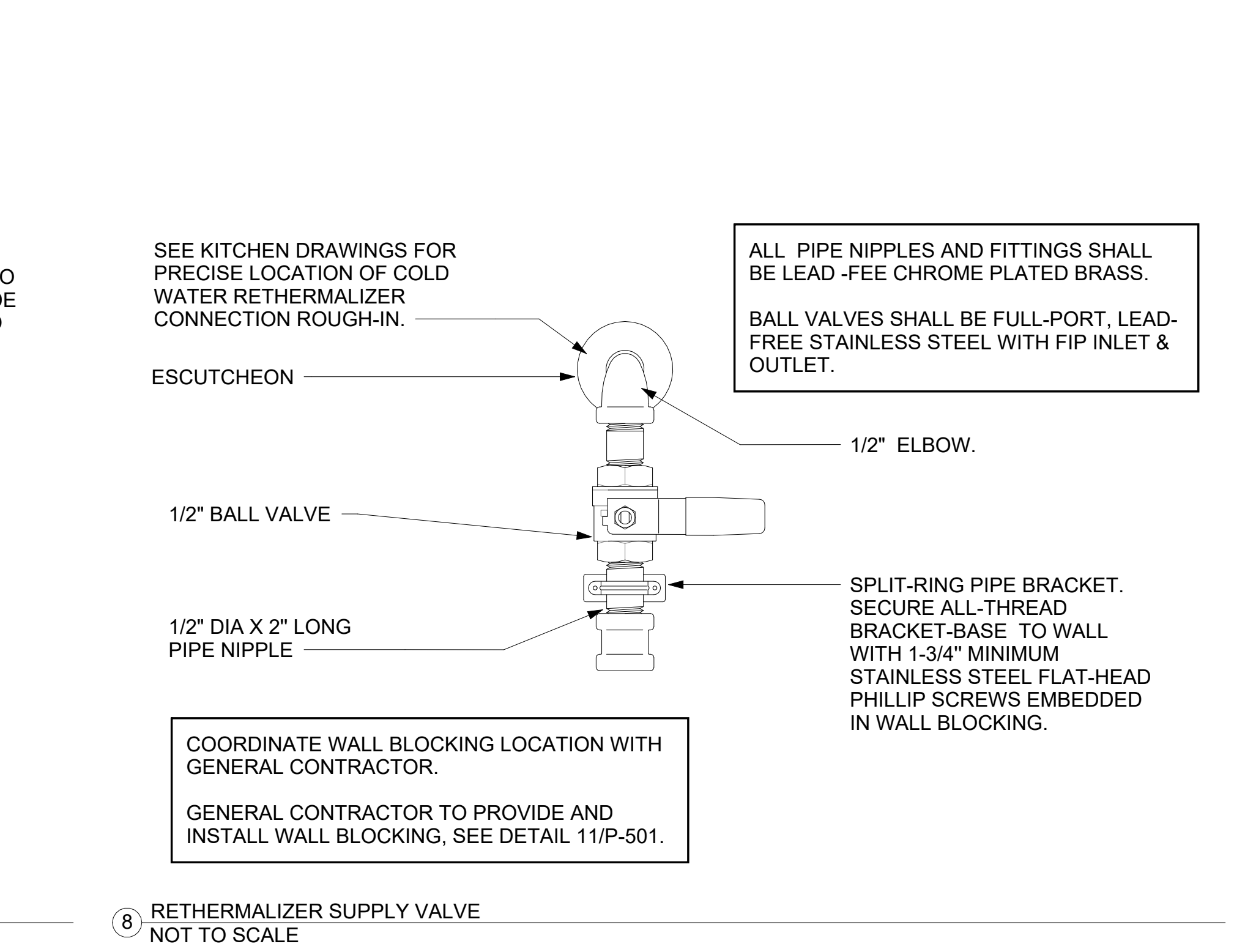
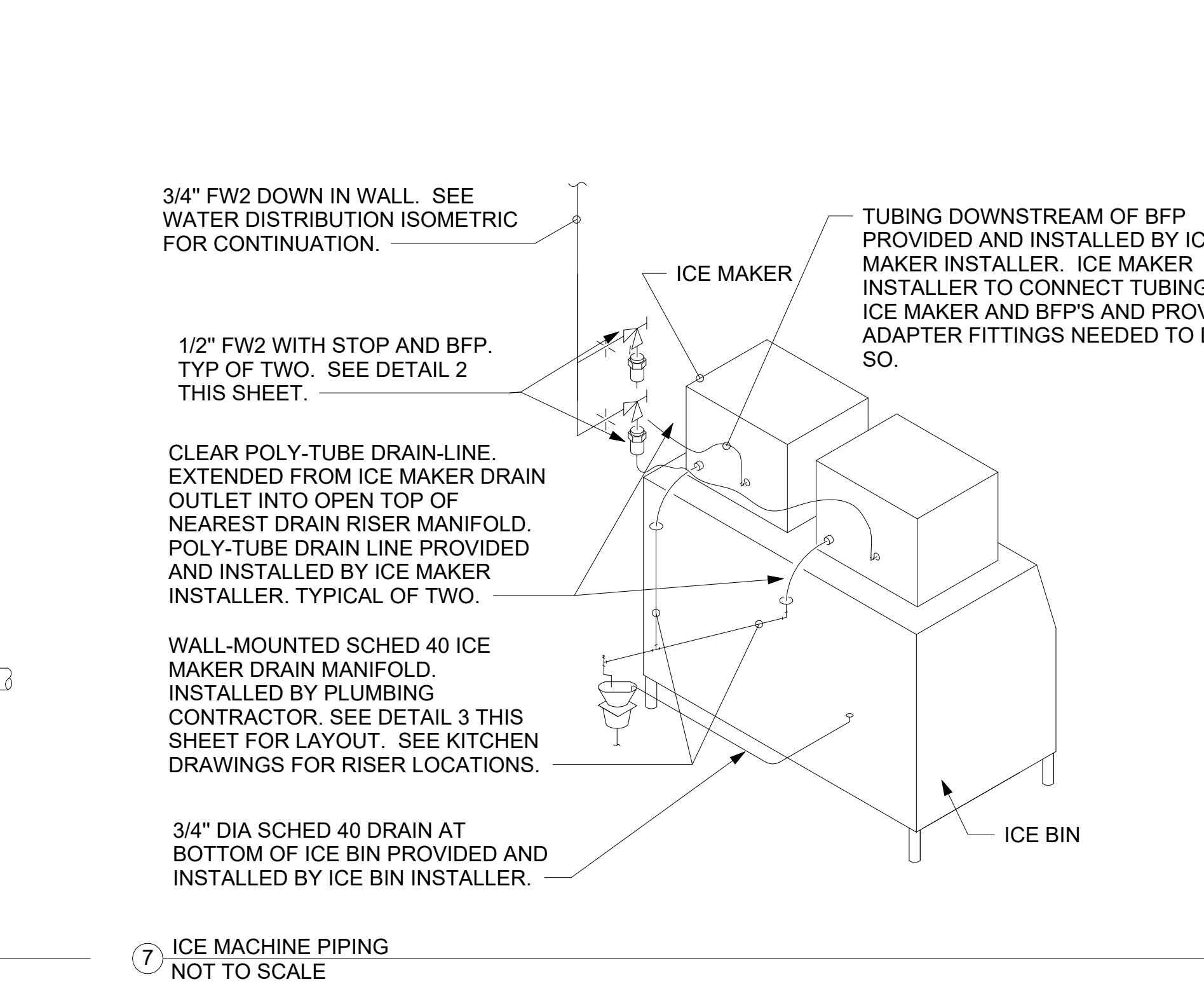
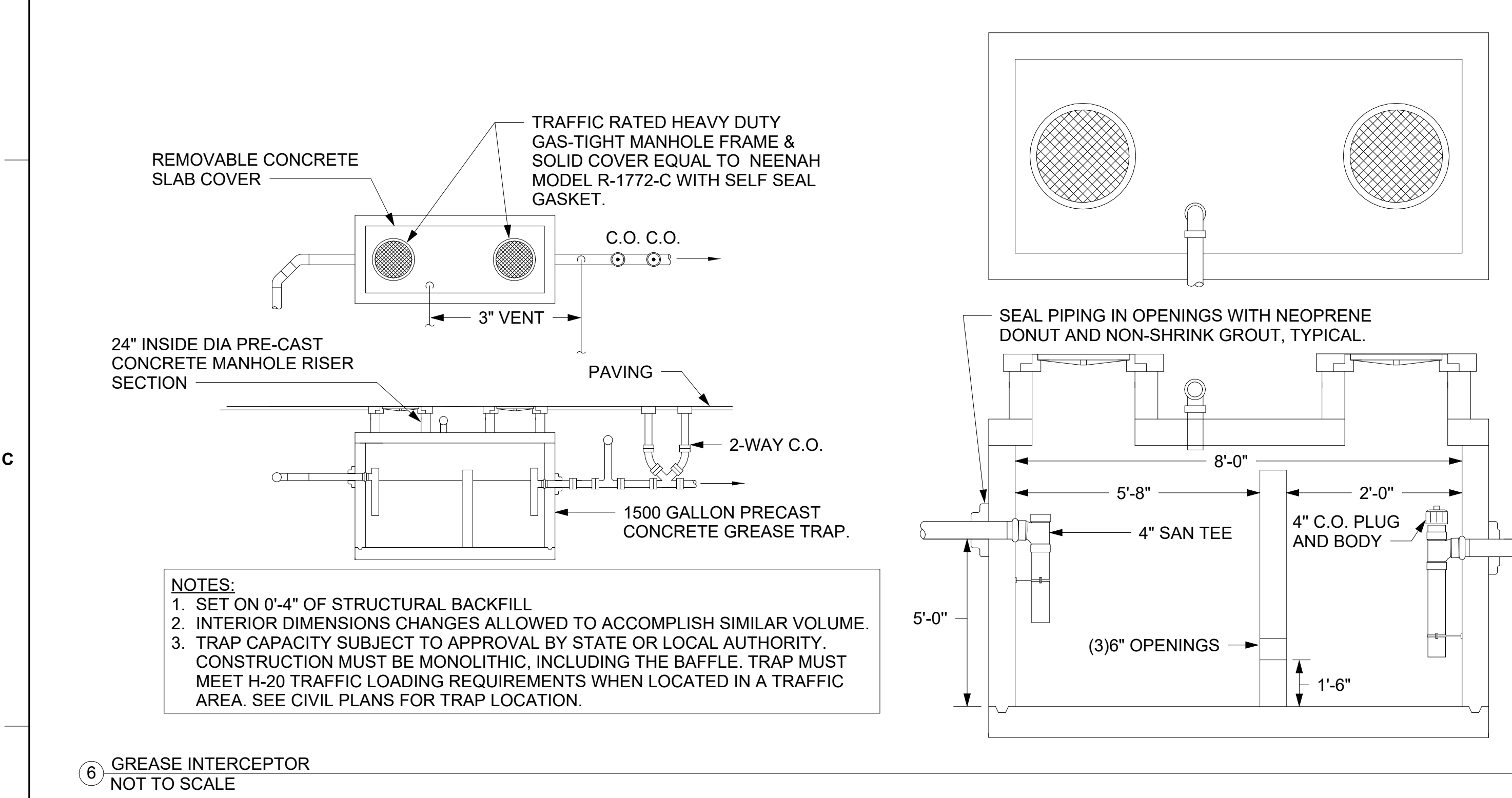
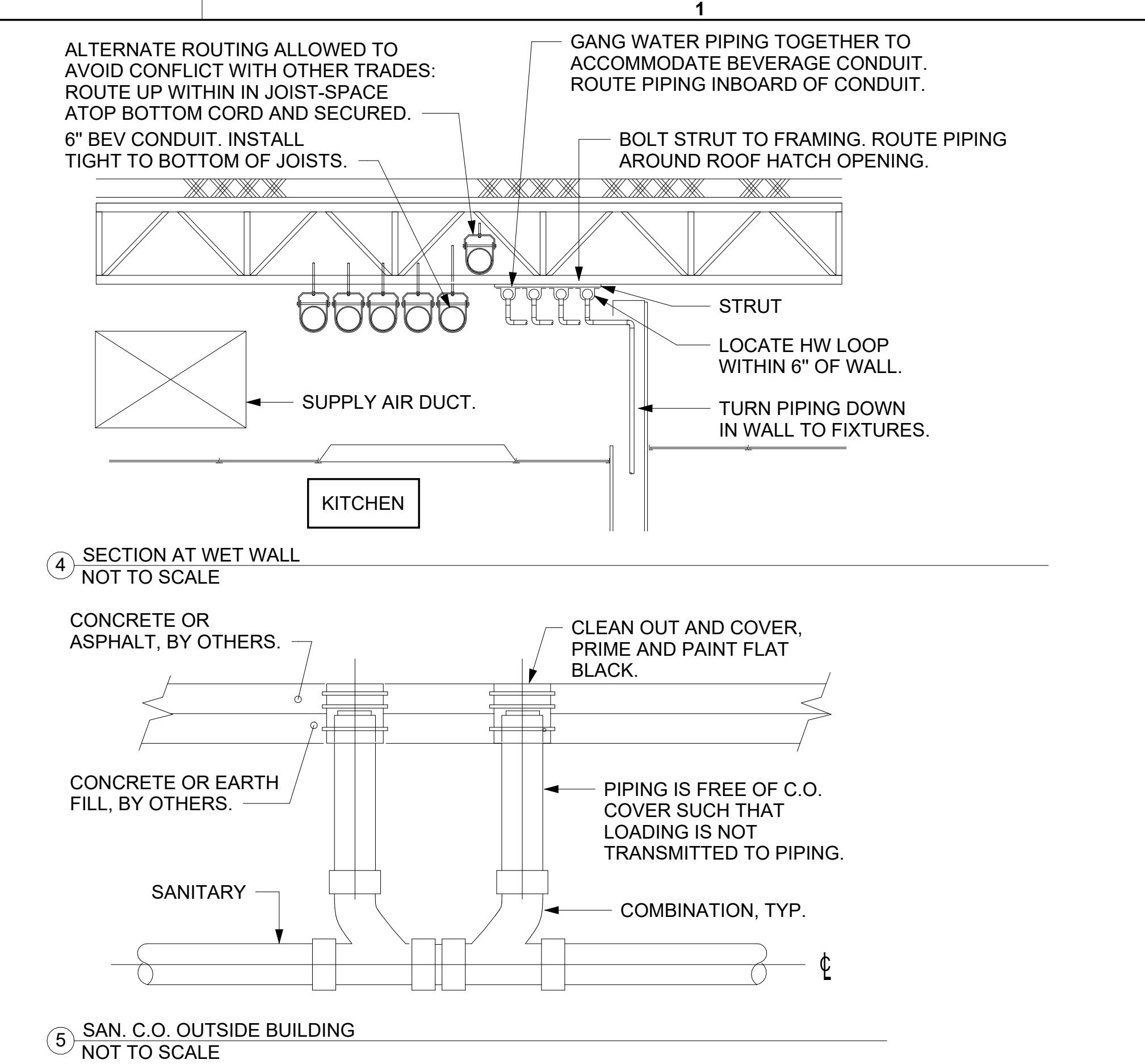
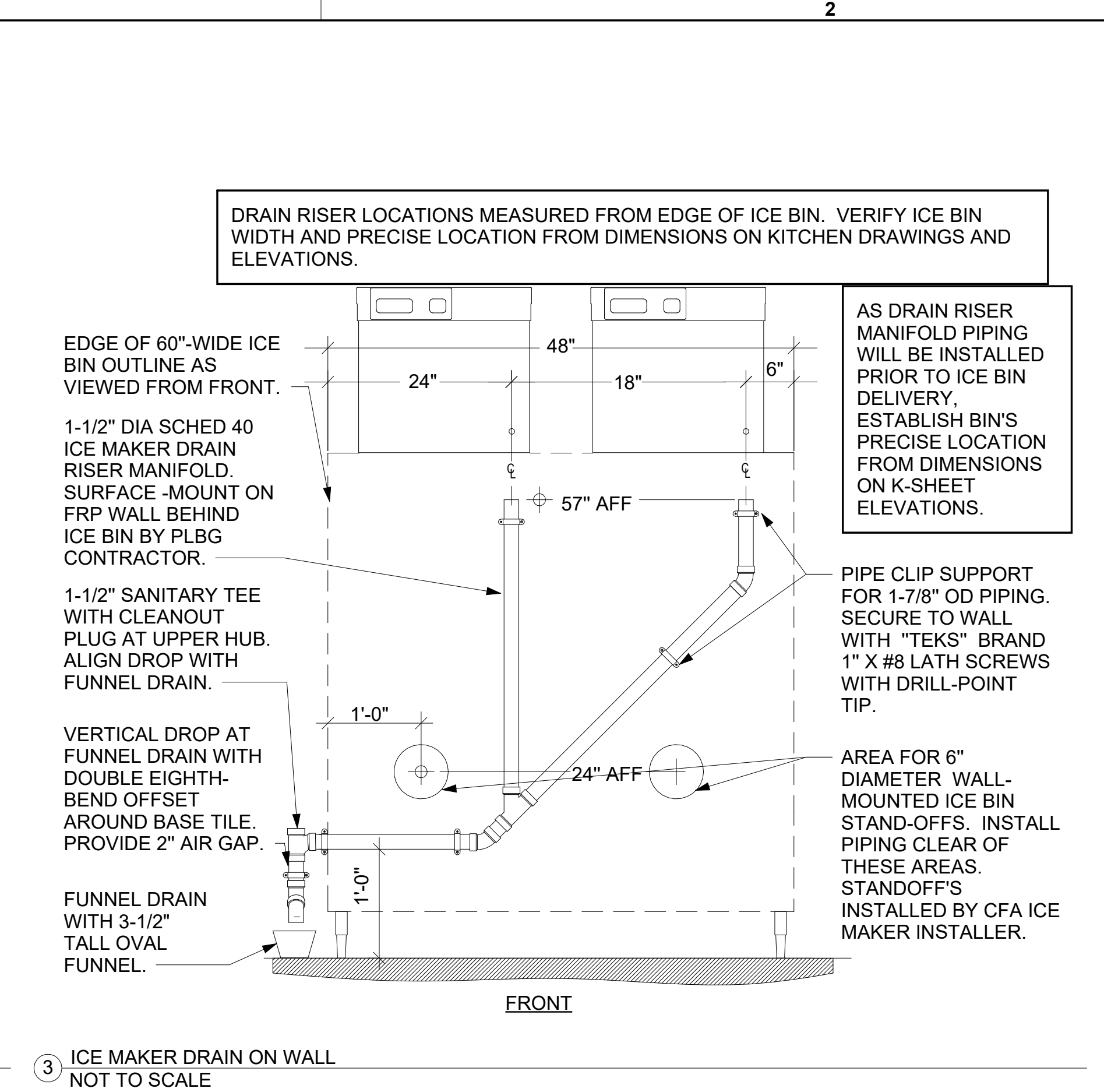
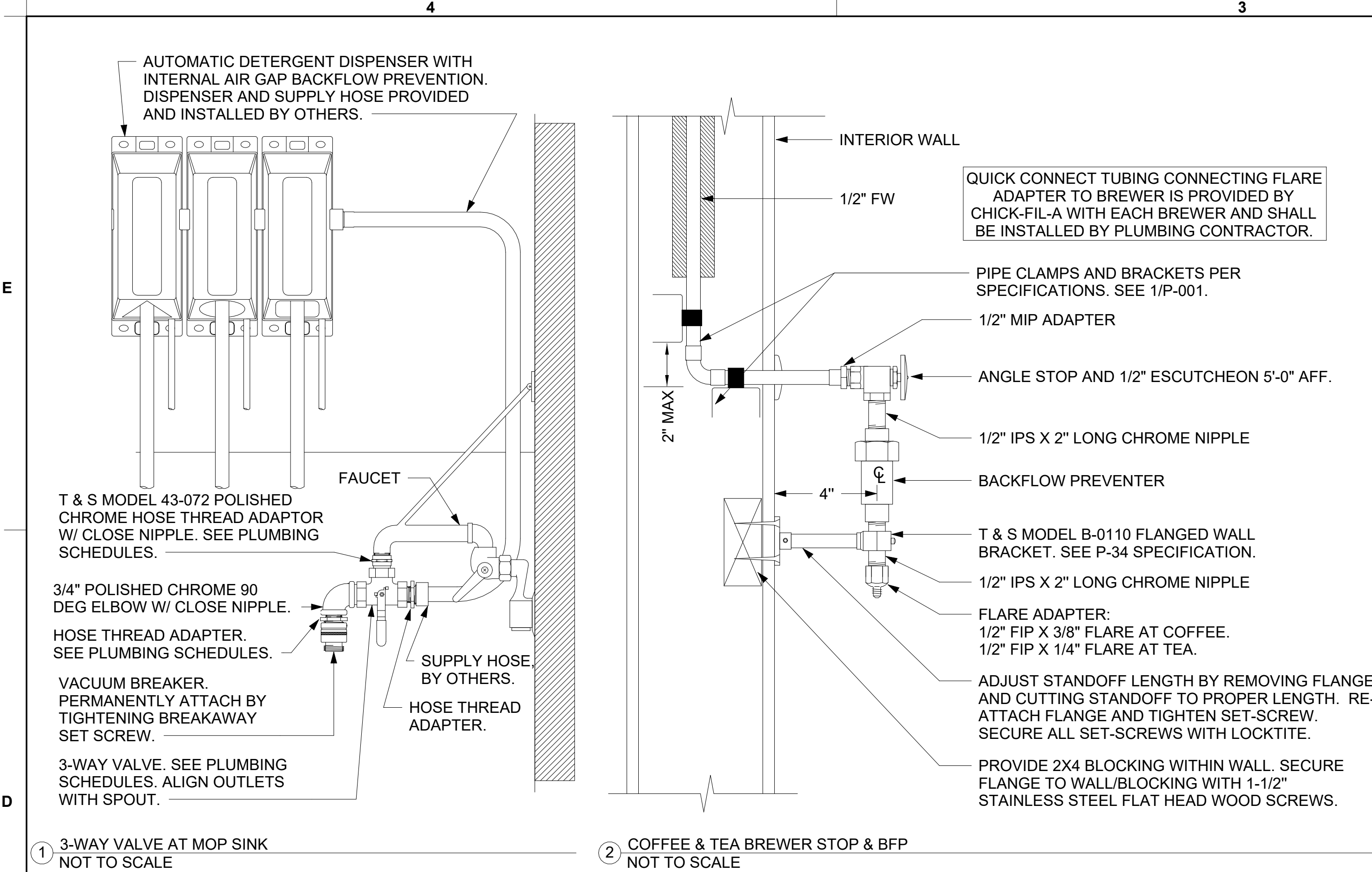
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LIGHTING PLAN

SHEET NUMBER

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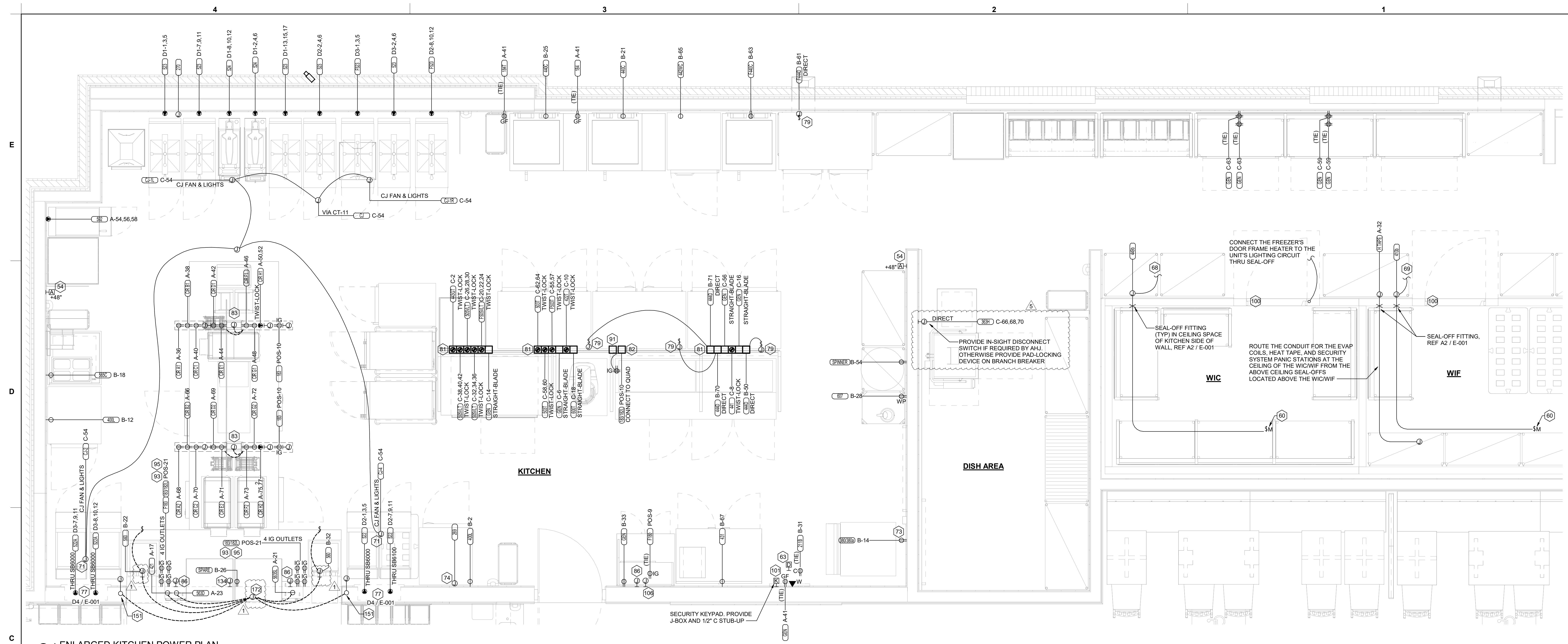
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Professional Engineer
 Lic. No. 32221
 02/02/24

CHICK-FIL-A
RELO HULL STREET FSU
 12280 BRIDGEWOOD CROSSING
 Midlothian, VA 23112

FSR#05416
 BUILDING TYPE / SIZE: P14 LE BN
 RELEASE: 23.02
 PRINTED FOR: CONSTRUCTION
 REVISION SCHEDULE
 NO. DATE DESCRIPTION

CONSULTANT PROJECT #	23141.EH.S
DATE	09/18/23
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SHEET	PLUMBING DETAILS
SHEET NUMBER	P-501



C1 ENLARGED KITCHEN POWER PLAN
1/2" = 1'-0"

POWER PLAN GENERAL NOTES

- A. ALL SECURITY, POS, MUSIC, COMMUNICATIONS, AND POWER ROUGH-IN SHALL BE INSTALLED DURING THE FRAMING/ROUGH-IN PHASE OF CONSTRUCTION.
- B. REFER TO KITCHEN EQUIPMENT SHEETS FOR EQUIPMENT ELECTRICAL ROUGH-IN ELEVATIONS ABOVE FINISHED FLOOR.
- C. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
- D. PROVIDE INSULATED BUSHING AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.
- E. 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.

ELECTRICAL KEYNOTES

- 54 PROVIDE TWO-GANG DEEP BOX (2" MIN.) FOR FS PULL STATION. EXTEND 1/2" CONDUIT FROM BOX, STUBBED ABOVE CEILING.
- 60 PROVIDE DISCONNECT SWITCH IN NEMA 3R ENCLOSURE AT THE UNIT'S EVAPORATOR COIL.
- 63 PROVIDE 2 GANG DEEP BOX (2" MIN.) FOR EACH DUCT SMOKE DETECTOR INDICATED ON THE MECHANICAL DRAWINGS FOR INSTALLATION OF DUCT DETECTOR REMOTE ANNUNCIATORS BY MECHANICAL. THE DUCT SMOKE REMOTE ANNUNCIATORS ARE PROVIDED TO THE ELECTRICIAN WITH THE SUNCOAST ELECTRONICS PACKAGE OF GEAR AND CONTROLS. EXTEND 1/2" CONDUIT FROM EACH BOX AND STUB ABOVE CEILING.
- 68 CONNECT EVAPORATOR UNIT IN FREEZER TO FREEZER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE THE ELECTRICAL ROOF PLAN.
- 69 CONNECT EVAPORATOR UNIT IN COOLER TO COOLER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE THE ELECTRICAL ROOF PLAN.
- 71 CONNECT AS REQUIRED TO CJ FAN VIA THE HOOD SUPPLIED SPEED CONTROLLER. CONNECT HOMERUN VIA A RELAY IN THE CFA-T500 CONTROL SECTION.
- 73 SEE THE ELECTRICAL ROOF PLAN FOR THE LOCATION OF THE ICE MAKER CONDENSERS AND ANY ADDITIONAL REQUIREMENTS.
- 74 PROVIDE 3#12 IN 1/2" CONDUIT BETWEEN THE CFA-T500 CONTROL PANEL AND THE FIRE SUPPRESSION SYSTEM PANEL(S). SEE FIRE SUPPRESSION SYSTEM WIRING DIAGRAM DETAIL ON SHEET E-702 FOR ADDITIONAL INFORMATION.
- 77 THE RECESSED PIN AND SLEEVE BOX WITH THE 'SLEEVE' RECEPTACLE FOR THE OPEN FRYERS (ITEMS #522 AND 522A) ARE FURNISHED BY THE EXHAUST HOOD SUPPLIER AND INSTALLED BY THE CONTRACTOR. THE OPEN FRYER SUPPLIER PROVIDES PREWIRED CORDSET WITH A PIN DEVICE INTEGRAL WITH THE OPEN FRYER TO PLUG INTO THE SLEEVE RECEPTACLE.
- 79 SINGLE POLE SWITCH SHALL SERVE AS THE LOCAL "IN-SIGHT" MEANS OF DISCONNECT FOR EQUIPMENT ITEM AS NOTED. SEE DIRECT CONNECTION DETAILS ON SHEET E-501 FOR FURTHER INFORMATION.
- 81 OVERHEAD EQUIPMENT POWER (OEP) DROP CORD RECEPTACLES FROM A FLUSH MOUNTED CEILING OEP BOX (MAXIMUM OF SIX PER ASSEMBLY.) PROVIDE A-C-S OEP ASSEMBLY #12360-1000. ASSEMBLY WILL CONSIST OF A FLUSH CEILING OUTLET BOX, TWIST-LOCK PENDANT RECEPTACLES, STRAIGHT BLADE PENDANT RECEPTACLES, CORDS, STRAIN RELIEF, AND TWIST-LOCK PLUGS AS NOTED ON PLAN. CONTACT BRIDGID: DEFRAMCESHI EMAIL: BRIDGID1985@GMAIL.COM (800-639-7584) TO PURCHASE OEP BOX AND DROP CORD/RECEPTACLES. PROVIDE LIQUID-TIGHT CONDUIT WITH CONDUCTORS FOR DIRECT CONNECTED EQUIPMENT. CONDUIT SHALL NOT TOUCH THE FLOOR WHEN EQUIPMENT IS IN PLACE. USE SUPPORT GRIPS W/ SUPPORT HOOK ATTACHED TO SHELVING ABOVE AS NEEDED. PASS & SEYMOUR MODEL #FS075-U-GH5 OR EQUIVALENT.

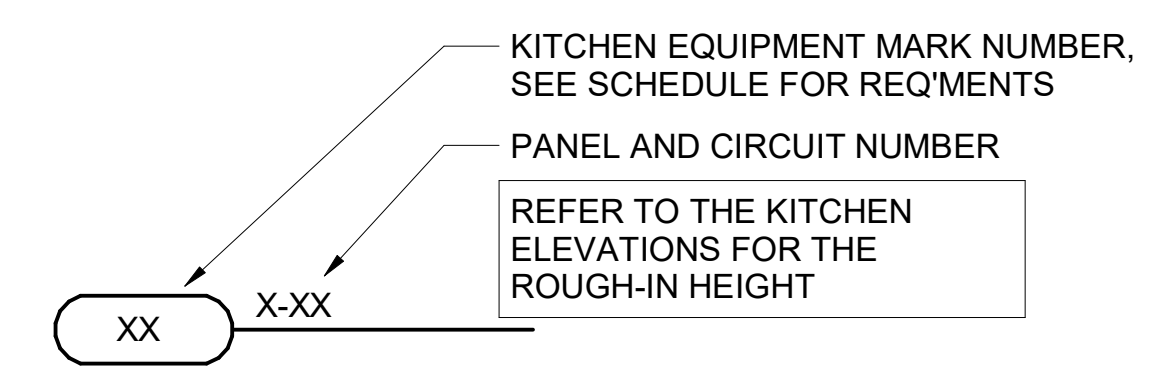
ELECTRICAL KEYNOTES

- 82 PROVIDE A DOUBLE-GANG BOX FLUSH MOUNTED IN THE CEILING WITH A BLANK PLATE WITH HOLE FOR A DROP CORD. PROVIDE THE #12 DROP CORD (WITH STRAIN RELIEF AT THE BOX AND AT THE OUTLET BACKBOX) AND CONNECT THE CORD TO AN OUTLET BOX CONTAINING TWO 15 AMP IG (ORANGE) DUPLEX OUTLETS. OUTLET BOX TO BE MOUNTED TO THE OVERHEAD SHELVING AT THE PRINTER AND MONITOR MOUNTING BRACKET.
- 83 COORDINATE WITH THE EQUIPMENT SUPPLIER FOR THE CHASE LOCATIONS. ROUTE ONE SET OF CIRCUIT 'A' THRU 'H' AND POS CIRCUIT TO EACH JUNCTION BOX PROVIDED ABOVE CEILING. CONNECT TO PREWIRED LABELED CIRCUITS. ENSURE CIRCUITS ARE LABELED CORRECTLY FOR EACH PREWIRED OUTLET PROVIDED IN EACH CHASE.
- 86 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS MONITOR(S). COVER PLATE PROVIDED BY OWNER'S POS SYSTEM VENDOR.
- 91 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.
- 93 PROVIDE ORANGE ISOLATED GROUND (IG) DUPLEX RECEPTACLE.
- 95 USE TYPE MC CABLE FOR THE ISOLATED GROUND CIRCUIT; #12 HOT, NEUTRAL, GREEN GROUND, STRIPED ISOLATED GROUND. EACH 15 AMP HOMERUN SHALL BE DEDICATED TO A CIRCUIT BREAKER VIA DEDICATED CONDUCTORS WITHIN A CABLE ASSEMBLY. ALL MC CABLES SHALL BE RUN OVERHEAD ABOVE THE CEILING AND RACKED TOGETHER ON J-HOOKS. NO SPLICES IN ANY HOMERUN CABLES FROM FIRST RECEPTACLE TO BREAKER.
- 100 PROVIDE TWO GANG WEATHERPROOF JUNCTION BOX AND STAINLESS STEEL PLATE WITH 7/8" HOLE IN CENTER FOR PANIC BUTTON. LOCATE AT 48" AFF AND EXTEND 1/2" CONDUIT UP TO ABOVE ACCESSIBLE CEILING WITH CONDUIT SEAL FITTING. SEAL CONDUIT PENETRATION AT WIC/WIF CEILING.
- 101 PROVIDE SINGLE GANG BOX WITHOUT COVER PLATE FOR RECEIPT PRINTER. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.
- 106 PROVIDE SINGLE GANG JUNCTION BOX WITHOUT COVERPLATE FOR POS. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.
- 134 PROVIDE A JUNCTION BOX WITH A 1" CONDUIT FOR DATA AND/OR SYSTEMS STUBBED UP INTO CEILING SPACE FOR APPROVED OPERATOR OPTIONAL EQUIPMENT.
- 151 PROVIDE J-BOX WITH 1" FLEX CONDUIT FROM ACCESSIBLE CEILING SPACE DOWN WALL TO ELECTRICAL CHASE IN MILLWORK STUBBED OUT AT 2'-4" AFF. PROVIDE 6' EXTRA FLEX CONDUIT COILED UP AT INSIDE FACE OF JAMB. ROUTE FLEX CONDUIT TO 6" X 6" J-BOX INSIDE MILLWORK CHASE. ROUTE BRANCH CIRCUITS FROM 6" X 6" J-BOX TO INDIVIDUAL PIECES OF EQUIPMENT FOR CIRCUITS WITHIN THE MILLWORK.
- 172 PROVIDE 6" X 6" W JUNCTION BOX BEHIND MILLWORK ACCESS PANEL ON FRY WARMER SIDE. PROVIDE MC CABLE TO ADJACENT CIRCUITS WITHIN THE MILLWORK, AS INDICATED.

NOTE FOR GF TYPE RECEPTACLES IN KITCHEN/FOOD PREP AREAS:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL FOR ALL 125V - 250V RECEPTACLES SUPPLIED BY 120V SINGLE-PHASE BRANCH CIRCUITS 50 AMPS OR LESS, 208V SINGLE-PHASE BRANCH CIRCUITS 50 AMPS OR LESS, AND 208V THREE-PHASE BRANCH CIRCUITS 100 AMPS OR LESS. SEE FLOOR PLANS FOR ADDITIONAL INFORMATION.

NOTE FOR POS GF IN KITCHEN:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 120 VOLT, 15 AND 20 AMP ISOLATED GROUND RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE BREAKER VIA A GROUND FAULT TYPE BRANCH BREAKER. (GFCI TYPE ISOLATED GROUND RECEPTACLES ARE NOT AVAILABLE.)

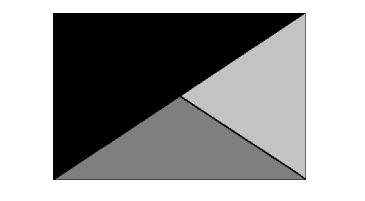
NOTE:
RECEPTACLES FOR THE POS EQUIPMENT SHALL BE THE ONLY ITEMS THAT CONNECT TO PANEL-POS. THERE SHALL BE NO OTHER LOADS CONNECTED TO THIS ISOLATED GROUND PANEL AND, IF SO, SHALL BE REMOVED AND RECONNECTED TO ANOTHER PANELBOARD AT THE EXPENSE OF THE CONTRACTOR.



A1 KITCHEN EQUIP NOMENCLATURE
NO SCALE



Chick-fil-A
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03/26/24

CHICK-FIL-A
HULL STREET AT
DRIVE
MIDLOTHIAN, VA 23112

FSR#05416

BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.02

PRINTED FOR: CONSTRUCTION

REVISION SCHEDULE	NO.	DATE	DESCRIPTION
	1	02/05/2024	DESIGN
	5	03/26/2024	BUILDING

CONSULTANT PROJECT #	23141.EH.S
DATE	09/15/2023
DRAWN BY	ES
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ENLARGED KITCHEN POWER PLAN	
SHEET NUMBER	E-301

1. PLUMBING FIXTURES

RESTROOM FIXTURES (C15405) AND PLUMBING (15100)

ALL PLUMBING FIXTURES SHALL BE SUPPLIED BY HJC (UNLESS NOTED OTHERWISE). SEE NATIONAL ACCOUNT INFORMATION ON G-003.

- P-1 WATER CLOSET: TOTO MODEL CT705UN#01 BOWL WITH 1.28 GPF TET1LA32#CP ECO-POWER FLUSH VALVE AND SC534 SEAT (ALL PROVIDED BY HJC). NO SUBSTITUTIONS. WHITE, FLOOR MOUNTED, FLUSH VALVE TYPE, VITREOUS CHINA, 1-1/2" TOP SPUD, ELONGATED BOWL, ELECTRONIC SENSOR OPERATED HANDS-FREE FLUSH VALVE, WHITE OPEN FRONT SEAT WITH CHECK HINGE.
- P-2 WATER CLOSET (ADA): TOTO MODEL CT705ULN#01 BOWL WITH 1.28 GPF TET1LA32#CP ECO-POWER FLUSH VALVE AND SC534 SEAT (ALL PROVIDED BY HJC). NO SUBSTITUTIONS. H.C. ACCESSIBLE, WHITE, FLOOR MOUNTED, 17-1/2" HIGH, FLUSH VALVE TYPE, VITREOUS CHINA, 1-1/2" TOP SPUD, ELONGATED BOWL, ELECTRONIC SENSOR OPERATED HANDS-FREE FLUSH VALVE, WHITE OPEN FRONT SEAT WITH CHECK HINGE, AND NO OFFSET TOILET FLANGES.
- P-3 URINAL: TOTO MODEL UT445U#01 URINAL WITH TEU1UA12#CP, 0.125 GPF SELF SUSTAINED HYDROPOWER SELF-GENERATING ELECTRONIC SENSOR-OPERATED FLUSH VALVE (BOTH PROVIDED BY HJC). NO SUBSTITUTIONS. VITREOUS CHINA, 3/4" TOP SPUD, SENSOR OPERATED WITH MANUAL OVERRIDE BUTTON, INTERNAL VALVE FILTER PROTECTION.
- P-4A LAVATORY FAUCET: (BUILT-IN COUNTERTOP LAVATORY PROVIDED BY OWNER) TOTO MODEL T24551ET#CP ECO-POWER SENSOR HOT/COLD FAUCET WITH THERMOSTATICALLY CONTROLLED ASSE 1070 MIXING VALVE FAUCET. 0.09 GALLONS PER CYCLE. NO SUBSTITUTIONS. PROVIDE MCGUIRE LF175 SUPPLY WITH STOP, MCGUIRE 155-WC GRID DRAIN WITH OFFSET TAILPIECE. MCGUIRE 8872 POLISHED CHROME P-TRAP. P-TRAP SHALL BE PARALLEL WITH BACK WALL. PROVIDE A TRUEBRO INC., HANDI LAV-GUARD INSULATION KITS MODELS 101E-Z AND 105E-Z.
- P-5 KITCHEN HAND SINK SUPPLIED BY TMS. FAUCET: TOTO MODEL #TEL165-C20E#CP - PROVIDED BY HJC. CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. MCGUIRE LF175 SUPPLIES WITH STOPS AND A MCGUIRE 8912C POLISHED CHROME P-TRAP (PROVIDED BY HJC). ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F.
- P-5A KITCHEN DUMP SINK SUPPLIED BY TMS. FAUCET: T&S MODEL #B-1146-CFA-VF05 - PROVIDED BY HJC. CONTRACTOR SHALL INSTALL WALL HUNG, STAINLESS STEEL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. MCGUIRE LF175 SUPPLIES WITH STOPS (PROVIDED BY HJC).
- P-6 SERVING COUNTER DROP IN SINK ROUGH IN: (SINK AND FAUCET WITH 1.0 GPM AERATOR FURNISHED BY OWNER) CONTRACTOR SHALL INSTALL SINK AND FAUCET SET AND MAKE FINAL CONNECTIONS. PROVIDE MCGUIRE 8912 POLISHED CHROME P-TRAP AND MCGUIRE LF175 STOPS WITH 20" CHROME PLATED 3/8" COPPER RISERS. ADJUST FAUCET OUTLET TEMPERATURE TO 110 DEGREES F (OR HIGHER AS REQUIRED BY LOCAL JURISDICTION).
- P-7 MOP SINK FAUCET: (MOP SINK BASIN BUILT BY GENERAL CONTRACTOR) PROVIDE T&S BRASS MODEL B-2345 FAUCET WITH CERAMA SPRING CHECK VALVE CARTRIDGES, HOSE THREAD SPOUT OUTLET, TOP BRACE, ADJUSTABLE INLET SPREAD FROM 3" TOP 8". INCLUDE T&S BRASS MODEL 43-072 HOSE THREAD X 3/4" FEMALE NPT CHROME ADAPTOR (ALL PROVIDED BY HJC). NO SUBSTITUTIONS. SEE ALSO P-16.
- P-8 VEGETABLE PREP SINK ROUGH-IN: (SINK PROVIDED BY TMS; FAUCET T&S B-0152-14-CRBC WITH 1.0 GPM SPRAY HEAD BY HJC) CONTRACTOR SHALL INSTALL SINK AND MAKE FINAL CONNECTIONS. MCGUIRE LFST08 STOPS AND BRASSCRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC (PROVIDED BY HJC). ASSEMBLE AND MOUNT TWO HANDLE FAUCET WITH PRE-RINSE SPRAY ARM. INSTALL ADD-ON FAUCET WITH SPOUT AT BASE OF PRE-RINSE RISER. SEE K-SHEET ELEVATIONS. PROVIDE 1-1/2" SCHED 80 PVC (PIPE AND FITTINGS) INDIRECT WASTE LINES FROM SINK BASINS TO FLOOR SINK P-13B. NO P-TRAPS REQUIRED. HJC TO PROVIDE FISHER #22209 DRAINS WITH FLAT STRAINERS.
- P-9 FOUR COMPARTMENT POT SINK ROUGH-IN: (SINK PROVIDED BY TMS; FAUCETS: T&S B-0152-14CRBC & B2299-CR WITH 1.0 GPM SPRAY HEAD PROVIDED BY HJC) CONTRACTOR SHALL INSTALL SINK, ASSEMBLE & MOUNT TWO FAUCETS, AND MAKE FINAL CONNECTIONS. MCGUIRE LFST08 STOPS AND BRASSCRAFT 36" CHROME PLATED 1/2" OD COPPER RISERS MODEL 3-36AC (PROVIDED BY HJC). ASSEMBLE AND MOUNT ONE TWO-HANDLE FAUCET WITH PRE-RINSE SPRAY 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 1-1/2" SCHED 80 PVC (PIPE AND FITTINGS) INDIRECT WASTE LINES FROM EACH SINK BASIN TO FLOOR SINK P-13A. NO P-TRAPS REQUIRED. HJC TO PROVIDE FISHER #22209 DRAINS WITH FLAT STRAINERS.
- P-10 FLOOR DRAIN (3"): ZURN EZ1-PV3-R8 PVC BODY, BRONZE SPUD WITH 8" DIAMETER NICKEL BRONZE STRAINER (PROVIDED BY HJC). ALT: JONES STEPHENS CORP D53-144.
- P-11 WALL HYDRANT (NON-FREEZE): WOODFORD MODEL 67C AUTOMATIC DRAINING WALL HYDRANT WITH DUAL CHECK BFP. ASSE 1052 APPROVED, WALL CLAMP, POLISHED BRASS FINISH (PROVIDED BY HJC). "C" STYLE INLET. SEE WALL HYDRANT NOTES. ALT: (WTS) HY-42.
- P-12 FUNNEL DRAIN (3"): ZURN MODEL ZN415E-SC-NL 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 (PROVIDED BY HJC). 4" ROUND FUNNEL (ZURN) ZN328-4.
- P-13A FLOOR SINK (POT SINK): ZURN MODEL Z1910-4NL-1-23-KC CAST IRON INDIRECT WASTE RECEIVER WITH 12" SQUARE BODY, FLASHING CLAMP, 8" DEEP, ALUMINUM SEDIMENT BUCKET, AND NO GRATE. NO SUBSTITUTIONS (PROVIDED BY HJC).
- P-13B FLOOR SINK (VEGETABLE SINK & BEVERAGE TOWER): ZURN MODEL Z1910-KC-3NL-1-23 CAST IRON INDIRECT WASTE RECEIVER WITH FLASHING CLAMP, 8" SQ. BODY, ALUMINUM SEDIMENT BUCKET, AND NO GRATE (PROVIDED BY HJC). NO SUBSTITUTIONS.
- P-13C FLOOR SINK (DUMP SINK): ZURN MODEL Z1910-NL-KC-2-23 CAST IRON BODY WITH INDIRECT WASTE RECEIVER, NEO-LOC OUTLET, ANCHOR FLANGE WITH SEEPAGE HOLES AND CLAMP COLLAR, WITH HALF GRATE, AND ALUMINUM BUCKET. (PROVIDE BY HJC) NO SUBSTITUTIONS.
- P-14 CLEANOUTS INSIDE BUILDING: (SEE PLAN FOR CONNECTION SIZE) ZURN ZN1400-XNL-T-BP CLEANOUT WITH 6" SQUARE NICKEL BRONZE TOP AND TAPER THREAD BRONZE PLUG. SEE PLAN FOR SIZE. (X=PIPE DIA) (PROVIDED BY HJC).
- P-15 CLEANOUTS OUTSIDE BUILDING: (SEE PLAN FOR CONNECTION SIZE) ZURN Z1474-NX EXTRA HEAVY DUTY CAST IRON CLEANOUT, "C.O." CAST IN COVER, ABS PLUG, NEO-LOOK OUTLET. (X=PIPE DIA) (PROVIDED BY HJC). ALT: (ZURN) Z1474-X-N.
- P-16 3-WAY DIVERTER VALVE ASSEMBLY: WATTS MODEL LFB 6780 ROUGH BRASS LEAD-FREE DIVERTER BALL VALVE WITH 3/4" FIP INLET AND OUTLETS AND QUARTER TURN LEVER HANDLE. PROVIDE WITH TWO (2) FORGED BRASS 3/4" MIP X 3/4" MALE GARDEN HOSE THREAD ADAPTERS (PLUMBEST MODEL G20-103 OR EQUAL). PROVIDE WITH ONE ASSE 1011 APPROVED CHROME PLATED VACUUM BREAKER (WOODFORD MODEL 34H-CH OR EQUAL) (ALL PROVIDED BY HJC). FOR INSTALLATION AT MOP SINK. SEE 4/P-201. PROVIDE ALSO TWO 3/4" CLOSE CHROME PLATED BRASS NIPPLE AND 3/4" POLISHED CHROME 90 DEGREE ELBOW.
- P-17 VACUUM RELIEF VALVE: WATTS MODEL #LFB36M1, 3/4" CW CONNECTION. (PROVIDED BY HJC).
- P-18 EXPANSION TANK: AO SMITH MODEL TW12-5. ACCEPTANCE 2.19 GALLONS (PROVIDED BY HJC) AT 40 PSI PRECHARGE, 3/4" CW CONNECTION. ALTERNATE MODELS SIZED PER WATER HEATER MANUFACTURER RECOMMENDATIONS ARE ACCEPTABLE.
- P-19 WATER HEATER: BRADFORD-WHITE EF-60T-125E-3N STORAGE TYPE GAS FIRED 60 GALLON WATER HEATER, 125MBH INPUT, 145 GPH RECOVERY AT 100F RISE, DIRECT VENT, BLOWER POWERED, CONDENSING TYPE WITH THREE-YEAR WARRANTY (PROVIDED BY HJC). CONTRACTOR TO PROVIDE DIELECTRIC HEAT TRAP NIPPLES, STATE INDUSTRIES SUP-100-189-NE, RHEEM GHE80-130, AND BRADFORD-WHITE EF-60T-189-3N MODELS ARE ACCEPTABLE SUBSTITUTES. (ANY SUBSTITUTIONS PROVIDED ON REQUEST FROM HJC.)
- P-20 THERMOMETER: 1/2" HW CONNECTION. PROVIDE TRERICE MODEL B83404 - 04 3" DIAL TYPE THERMOMETER WITH BOTTOM 1/2" N.P.T. CONNECTION, 4" STEM AND 0 DEG F TO 200 DEG F RANGE. LEAD FREE. (PROVIDED BY HJC.)
- P-21 BACKFLOW PREVENTERS: COORDINATE LOCATION WITH CIVIL SITE UTILITY PLAN. BACKFLOW PREVENTER TYPE AND MODEL IS DETERMINED BY CIVIL ENGINEER IF LOCATED OUTSIDE THE BUILDING.

REDUCED PRESSURE ZONE (RPZ) TYPE: WATTS NO. LFU09M2 1-1/2" CW CONNECTION MODULAR TYPE WITH TEST PORTS AND INTERMEDIATE RELIEF VALVE MEETING ASSE 1013 AND AWWA C511-89. PROVIDE WATTS NO. 909-AG-C AIR GAP DEVICE. ALT: (ZRN) 112-975XLT2U. (ANY AND ALL PROVIDED BY HJC.)

- P-22 MOP SINK CHECK VALVES: 1/2" CW AND 1/2" HW CONNECTION. T&S BRASS 1/2" MODEL B-CVV1-2 BALL CHECK. (PROVIDED BY HJC)
- P-23 UTILITY CONNECTION (ICE MAKER): PROVIDE A MCGUIRE MODEL LFHST06SB LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET (PROVIDED BY HJC). PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFP P-34. SEE DETAIL 3/P-201 FOR PIPING AT ICE MAKERS.
- P-24 UTILITY CONNECTION (COFFEE & TEA BREWERS): PROVIDE A MCGUIRE MODEL LFHST06SB LEAD-FREE CHROME WHEEL ANGLE STOP, 1/2" FIP INLET AND OUTLET (PROVIDED BY HJC). PROVIDE CHROME WALL ESCUTCHEON. INSTALL WITH BFP P-34.
- P-25 SHOCK ABSORBER: 1/2" FW, 1/2" & 3/4" FW2, 1/2" CW, AND 1/2" HW CONNECTION. ZURN Z1700-100 THRU Z1700-300 AS NEEDED, SIZE AS RECOMMENDED BY MANUFACTURER (PROVIDED BY HJC). ALT: (WTS) SSA + SSB; (JRS) 5005 THROUGH 5050)
- P-26 FUNNEL DRAIN (3"): ZURN ZN415-3NL-8S-OF FLOOR DRAIN W/FUNNEL. INDIRECT WASTE RECEIVER WITH NICKEL BRONZE STRAINER AND FUNNEL. PROVIDE 8"X8" SQUARE STRAINER WITH 3.25"X 8.25" OBLONG FUNNEL (DRAIN AND STRAINER PROVIDED BY HJC). ALT: (JRS) 3510L03-42ZNB.
- P-26A TRAP SEAL PROTECTOR: 3" WASTE CONNECTION. PROVENT TRAP GUARD MODEL TG3H 3" TRAP SEAL INSERT FOR INTERIOR INSTALLATION AND REPLACEMENT ACCESS THROUGH STRAINER. PROVIDE AT P-35 FLOOR DRAINS IN RESTROOMS, P-37 FLOOR DRAINS IN DINING ROOM, AND P-10/P-26 DRAINS IN SERVICE ROOM. PROVIDE PROSET MODEL TG33-ZURN WHEN USING ZURN FLOOR FIXTURES.
- P-27 WATER PRESSURE GAUGE: 1/4" CW CONNECTION. TRERICE MODEL 800B, 2-1/2" ROUND, BOTTOM OUTLET WITH 1/4" N.P.T. CONNECTION AND 0 TO 100 PSI RANGE. (PROVIDED BY HJC.)
- P-28 ISOLATION BALL VALVE (8-STOP WATER MANIFOLD PANEL): 3/4" FW CONNECTION. NIBCO MODEL 4660-T, 3/4", WITH IPS INLET AND OUTLET. (PROVIDED BY HJC.)
- P-29A ICE MACHINE TRENCH DRAIN: ZURN/STAINLESS DRAINS TR12-CFA-18 STAINLESS STEEL TRENCH DRAIN, 14.5" X 18", STAINLESS STEEL SEDIMENT CUP AND STAINLESS STEEL SERRATED LADDER GRATE (PROVIDED BY HJC). NO SUBSTITUTIONS.
- P-29B ICE MACHINE TRENCH DRAIN: ZURN/STAINLESS DRAINS TR12-CFA-36 STAINLESS STEEL TRENCH DRAIN, 14.5" X 36", STAINLESS STEEL SEDIMENT CUP AND STAINLESS STEEL SERRATED LADDER GRATE (PROVIDED BY HJC). NO SUBSTITUTIONS.
- P-30a FILTERED WATER FAUCET: (FAUCETS: T&S B-0599-CR PROVIDED BY HJC) 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 S3 LEVER TYPE POST HYDRANT, 3/4 HOSE CONNECTION, LOCKABLE LEVER HANDLE, ASSE 1052 APPROVED AND 36" DEPTH OF BURY (PROVIDED BY HJC.)
- P-32 DUMPSTER PAD DRAIN: J.R. SMITH FIGURE NO. 2280C03 3" FLOOR DRAIN WITH 7-1/2" HINGED CAST IRON SLOTTED GRATE AND SEDIMENT BUCKET (PROVIDED BY HJC.) INSTALLED BY SITE CONTRACTOR. ALT: (ZRN) Z415C-3NL-Y.
- P-33 TRAP PRIMER (MECHANICAL TYPE): DO NOT USE UNLESS REQUIRED BY LOCAL AUTHORITY. PRECISION PRODUCTS PR-500. PROVIDE DISTRIBUTION UNIT WHERE SERVING MULTIPLE DRAINS. PROVIDE SCREWDRIVER STOP AT PRIMER INLET. ALT: (WTS) TP-300A-DR.
- P-34 DISPENSER BACKFLOW PREVENTER: WATTS MODEL #LF7RU2-2 ASSE 1024 RATED WITH 1/2" FIP INLET AND OUTLET. DUAL CHECK TYPE. PROVIDE 1/2" DIA X 2" LONG CHROME NIPPLE AT BFP INLET AND OUTLET. PROVIDE T&S BRASS MODEL B-0110 CHROME WALL BRACKET. (ALL PROVIDED BY HJC.)
- P-35 FLOOR DRAIN (3"): ZURN EZ1-PV3-R6 PVC BODY, BRONZE SPUD WITH 6" DIAMETER NICKEL BRONZE STRAINER (PROVIDED BY HJC). ALT: JONES STEPHENS CORP D50-064.
- P-36 BEVERAGE TOWER INDIRECT RECEIVER (3"): ZURN EZ1-PV3-R8 PVC BODY, BRONZE SPUD WITH 8" DIAMETER NICKEL BRONZE STRAINER (PROVIDED BY HJC). ALT: JONES STEPHENS CORP D53-144.
- P-37 FLOOR DRAIN (3"): ZURN EZ1-PV3-S6 PVC BODY, BRONZE SPUD WITH 6" SQUARE NICKEL BRONZE STRAINER (PROVIDED BY HJC). ALT: JONES STEPHENS CORP D50-077.
- P-38 HOT WATER CIRCULATING PUMP: TACO MODEL 006-SG7-IFC, 1/2" UNION CONNECTIONS, INTEGRAL FLOW CHECK, ELECTRICIAN TO PROVIDE AND WIRE PLUG AND CORD, 1/40 HP, 3 GPM AT 7 FT TOTAL DYNAMIC HEAD. PROVIDE CONTROL WIRING AND HONEYWELL MODEL L6006C1018 110 VAC AQUA-STAT, WITH ADJUSTABLE SETPOINT, MOUNTED DIRECTLY ON PIPE (ALL PROVIDED BY HJC), SET SHUT-OFF TEMPERATURE AT 130 DEG F.
- P-39 2" PRESSURE REDUCING VALVE: WATTS NO. #LF223-SB WITH BUILT-IN BYPASS FEATURE (PROVIDED BY HJC). SET NO FLOW CONDITION AT 70 PSI. ALT: (ZRN) SERIES 500XLYSBR.
- P-40 WYE STRAINER WITH #100 SCREEN: WATTS LF777SM3-2, BRONZE WYE STRAINER WITH THREADED CONNECTION AND TAPPED RETAINER CAP. PROVIDE #100 MESH SCREEN. PROVIDE WATTS 1/2" LFB-D-1C BRASS BOILER DRAIN WITH BRASS STREET 90 DEGREE ELBOW, MALE END SIZED FOR CONNECTION TO WYE STRAINER RETAINER CAP OUTLET TAP. (PROVIDED BY HJC.)
- P-41H DISHWASHER SUPPLY VALVE (HOBART): FULL-PORT LEAD-FREE STAINLESS STEEL BALL VALVE(S) (PROVIDED BY HJC) WITH SPLIT-RING BRACKET, CHROME FITTINGS, PIPE NIPPLES AND ESCUTCHEON AS DETAILED ON 2/P-302.
- P-42 EMERGENCY EYEWASH: ACORN MODEL S0660-RH AND BRADLEY S19-2000-EFX8RB THERMOSTATIC TEMPERING VALVE (PROVIDED BY HJC). ANSI Z358.1 CERTIFIED FOR EMERGENCY FIXTURES, ASSE 1071 COMPLIANT, WITH DIAL THERMOMETER, INLET CHECK STOPS, ADJUSTABLE SETPOINT, ACCURATE WITHIN +/- 3 DEG F. INCLUDES INTEGRAL COLD WATER BYPASS WITH POSITIVE HOT WATER SHUT-OFF WHEN COLD WATER SUPPLY IS LOST. FACTORY SETPOINT OF 85 DEG F. MOUNTING BRACKET INCLUDED, FACTORY ASSEMBLED AND TESTED. ROUGH BRASS FINISH. NO SUBSTITUTIONS. CONTACT CHICK-FIL-A NATIONAL ACCOUNTS AT HAYNES, JONES & CADBURY FOR PRICING AND DELIVERY.
- P-43 SUPPLY VALVE (RETHEMALIZER): FULL-PORT LEAD-FREE STAINLESS STEEL BALL VALVE (PROVIDED BY HJC) WITH SPLIT-RING BRACKET, CHROME FITTINGS, PIPE NIPPLES AND ESCUTCHEON AS DETAILED ON 3/P-302.
- P-44 BOOSTER PUMP: GRUNDFOS MODEL CME 15-2 P-S-G-E-AOQE V-A-D-N, 2" INLET AND 2" DISCHARGE CONNECTIONS, 5 HP PUMP SYSTEM SHALL BE CAPABLE OF 70 GPM @ 40 PSI. STAINLESS STEEL PUMP BODY AND IMPELLAR. NSF 61 APPROVED. 208V / 3PH / 60 HZ, 13.2 AMPS.

2. FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE	FW	FW2	CW	HW	WASTE
P-1	WATER CLOSET - FLOOR MOUNT (1.28 GPF)	X	X	1"	X	3"
P-2	WATER CLOSET - ADA FLOOR MOUNT (1.28 GPF)	X	X	1"	X	3"
P-3	URINAL - ADA WALL HUNG (0.125 GPF)	X	X	3/4"	X	2"
P-4A	LAVATORY - ADA COUNTERTOP (0.50 GPM)	X	X	1/2"	1/2"	1-1/4"
P-5	KITCHEN HAND SINK - WALL HUNG (0.50 GPM)	X	X	1/2"	1/2"	1-1/2"
P-5A	KITCHEN DUMP SINK - WALL HUNG (0.50 GPM)	X	X	1/2"	1/2"	1-1/2"
P-6	SINGLE COMP SINK - COUNTERTOP (1.0 GPM)	X	X	1/2"	1/2"	1-1/2"
P-7	MOP SINK	X	X	1/2"	1/2"	3"
P-8	VEGETABLE PREP SINK (1.0 GPM SPRAYER)	X	X	1/2"	1/2"	(2) 1-1/2"
P-9	POT SINK (1.0 GPM SPRAYER)	X	X	(2) 1/2"	(2) 1/2"	(4) 1-1/2"
P-10	FLOOR DRAIN (ROUND TOP)	X	X	X	X	3"
P-11	WALL HYDRANT (NON FREEZE)	X	X	3/4"	X	X
P-12	FUNNEL DRAIN (3")	X	X	X	X	3"
P-13A	FLOOR SINK (4") 12" TOP	X	X	X	X	8"
P-13B	FLOOR SINK (3") 8" TOP	X	X	X	X	3"
P-13C	FLOOR SINK (3") 8" TOP	X	X	X	X	3"
P-14	CLEANOUT INSIDE BUILDING	X	X	X	X	SEE PLAN
P-15	CLEANOUT OUTSIDE BUILDING	X	X	X	X	SEE PLAN
P-16	3-WAY VALVE/ VACUUM BREAKER	X	X	3/4"	3/4"	X
P-17	VACUUM RELIEF VALVE	X	X	3/4"	X	X
P-18	EXPANSION TANK	X	X	3/4"	X	X
P-19	WATER HEATER	X	X	1"	1"	X
P-20	THERMOMETER	X	X	X	1/2"	X
P-21	BACKFLOW PREVENTER	X	X	1-1/2"	X	X
P-22	MOP SINK CHECK VALVES	X	X	1/2"	1/2"	X
P-23	UTILITY CONNECTION (ICE MAKER)	X	1/2"	X	X	X
P-24	UTILITY CONNECTION (COFFEE & TEA)	1/2"	X	X	X	X
P-25	SHOCK ABSORBER	1/2"	1/2" & 3/4"	1/2"	1/2"	X
P-26	FUNNEL DRAIN	X	X	X	X	3"
P-26A	TRAP SEAL PROTECTOR	X	X	X	X	3"
P-27	WATER PRESSURE GAUGE	X	X	1/4"	X	X
P-28	BALL VALVE-CARBONATOR STOP/BFP PANEL	3/4"	X	X	X	X
P-29A	ICE MACHINE TRENCH DRAIN	X	X	X	X	4"
P-29B	ICE MACHINE TRENCH DRAIN	X	X	X	X	3"
P-30a	FILTERED WATER FAUCET	(2) 1/2"	X	X	X	X
P-31	DUMPSTER POST HYDRANT	X	X	3/4"	X	X
P-32	DUMPSTER DRAIN	X	X	X	X	3"
P-33	TRAP PRIMER (MECHANICAL TYPE)	X	X	1/2"	X	X
P-34	DISPENSER BACKFLOW PREVENTER	1/2"	X	X	X	X
P-35	FLOOR DRAIN	X	X	X	X	3"
P-36	BEVERAGE TOWER INDIRECT RECEIVER	X	X	X	X	3"
P-37	FLOOR DRAIN (SQUARE TOP)	X	X	X	X	3"
P-38	HOT WATER CIRCULATING PUMP	X	X	X	1/2"	X
P-39	PRESSURE REDUCING VALVE	X	X	2"	X	X
P-40	WYE STRAINER	X	X	2"	X	X
P-41H	DISHWASHER SUPPLY VALVES	X	X	3/4"	X	X
P-42	EMERGENCY EYEWASH MIXING VALVE	X	X	1/2"	1/2"	X
P-43	RETHEMALIZER SUPPLY VALVE	X	X	1/2"	X	X
P-44	BOOSTER PUMP	X	X	2"	X	X

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

② DO NOT MANIFOLD POT OR PREP SINK DRAINS TOGETHER UNLESS ALLOWED BY LOCAL AUTHORITY.

3. KITCHEN EQUIPMENT SCHEDULE

TAG	DESCRIPTION	FW	FW2	CW	HW	WASTE	ROUGH-IN
(305)	TEA BREWER	1/2"	X	X	X	X	P-24, SEE K-611 & 2/P-501
(308)	COFFEE MAKER	1/2"	X	X	X	X	P-24, SEE K-611 & 2/P-501
(318A)	CARBONATOR BFP PANEL	3/4"	X	X	X	X	P-28, SEE K-611
(350)	WATER FILTER PANEL	(3) 3/4"	3/4"	3/4"	X	X	SEE 7/P-502
(360E)	EMERGENCY EYEWASH STATION	X	X	1/2"	1/2"	X	*1/2" TEPID WATER FROM P-42, SEE K-611 & 1/P-103
(363)	DISHWASHER	X	X	3/4"	X	INDIRECT TO P-13A	P-41, SEE K-611 & 1/P-103
(365)	POT SINK	X	X	(2) 1/2"	(2) 1/2"	INDIRECT	TWO #365F FAUCETS, P-9 SEE K-611
(367)	VEGETABLE PREP SINK	X	X	1/2"	1/2"	INDIRECT	#367F FAUCETS, P-8 SEE K-611
(368PW)	FILTERED WATER FAUCET	(2) 1/2"	X	X	X	X	P-30a 48" AFF.
(370)	MOP SINK	X	X	1/2"	1/2"	3" P-35	P-7 SEE K-611
(380)	ICE MAKER (BIN MOUNTED)	X	(2) 1/2"	X	X	INDIRECT	P-23 SEE K-611 & 3/P-501
(381)	ICE BIN (1 HEAD)	X	1/2"	X	X	INDIRECT	P-23 SEE K-611 & 3/P-501
(384)	ICE BIN (2 HEAD)	X	1/2"	X	X	INDIRECT	P-23 SEE K-611 & 3/P-501
(592)	RETHEMALIZER	X	X	1/2"	X	INDIRECT	P-43 SEE 8/P-501



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02/15/24

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Midlothian, VA 23112

FSR#05416

BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.02

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REVISION SCHEDULE
NO. DATE DESCRIPTION
2 02/07/2024 BUILDING

CONSULTANT PROJECT # 23141.EH.S
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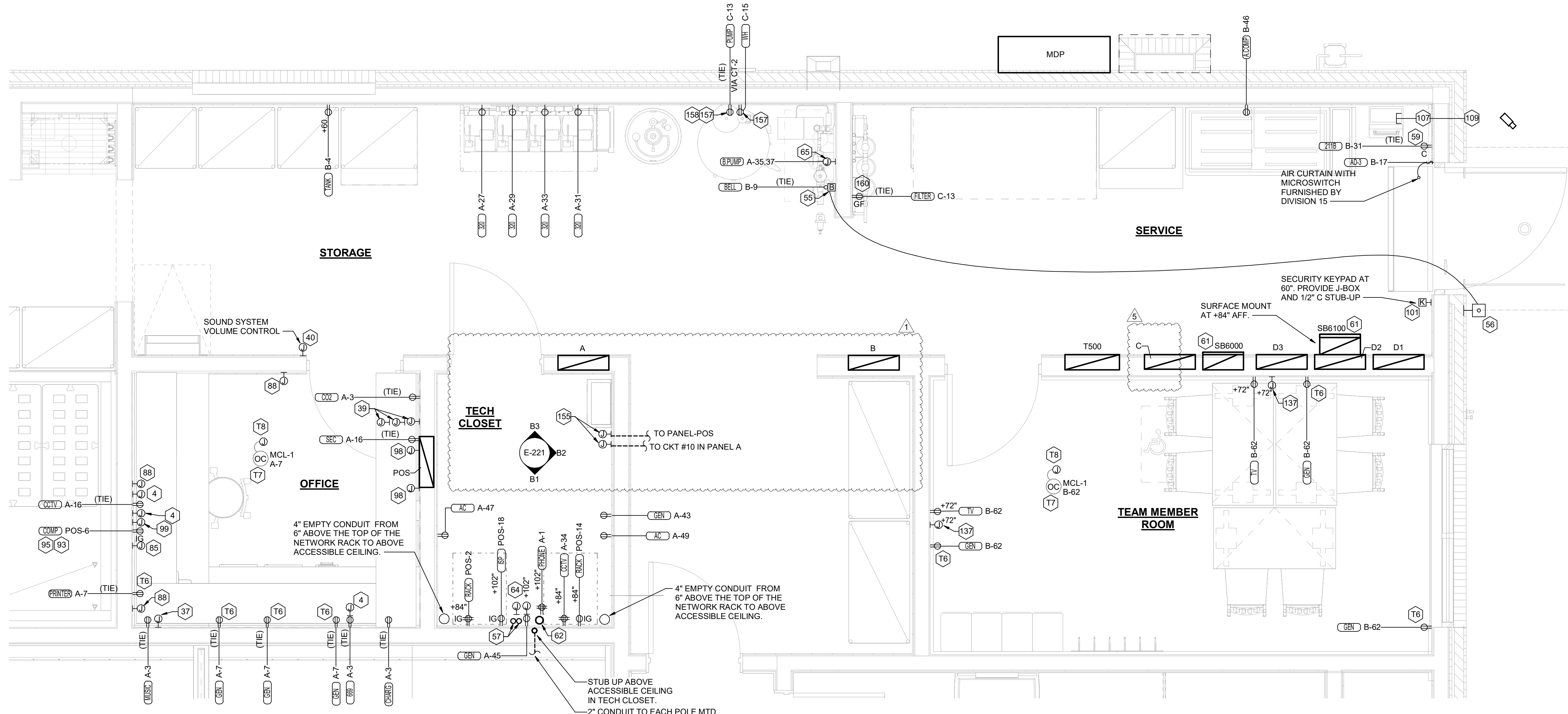
SHEET: PLUMBING SCHEDULES

SHEET NUMBER: P-601

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40-LE-05416-P-601-PLUMBING SCHEDULES

ELECTRICAL KEYNOTES

- 2 PROVIDE JUNCTION BOX, LESS COVER PLATE, AND EXTEND 1-1/2" CONDUIT UP IN WALL TO ABOVE CEILING FOR INSTALLATION OF WIRELESS COMMUNICATION CONTROL UNIT.
- 4 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 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 3/4" EMPTY CONDUIT STUBBED UP INTO THE ACCESSIBLE CEILING SPACE FOR THE DIGITAL MENU BOARD MEDIA ENGINE CABLES.
- 37 PROVIDE JUNCTION BOX WITH STAINLESS STEEL COVER PLATE AND 3/4" HOLE IN PLATE WITH GROMMET ON HOLE IN PLATE. EXTEND 3/4" CONDUIT UP IN WALL TO ABOVE CEILING FOR MUSIC SYSTEM.
- 39 THREE SINGLE GANG EXTRA DEEP J-BOXES STACKED WITH A 1/2" CONDUIT FROM EACH TO THE TOP J-BOX BOX AND A 1" CONDUIT STUBBED INTO THE CEILING SPACE FOR MUSIC SYSTEM VOLUME CONTROLS PROVIDED BY OWNER'S VENDOR.
- 40 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.
- 55 PROVIDE EDWARDS #340-4N5 VIBRATING 4" DIAMETER BELL. THE BELL SHALL BE RATED AT 120 VOLTS.
- 56 PROVIDE A 120 VOLT WEATHERPROOF DOORBELL PUSHBUTTON AT DOOR. PUSHBUTTON SHALL BE FLUSH MOUNTED. PROVIDE DORTRONICS SYSTEMS #W5286-P25 CLEAR ANODIZED ALUMINUM PUSHBUTTON WITH SINGLE GANG SWITCHPLATE.
- 57 TWO 2" TELEPHONE SERVICE ENTRANCE CONDUIT(S). EXTEND WITH PULL STRING FROM TELEPHONE SERVICE J-BOX TO THE UTILITY SOURCE. REFER TO THE ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.
- 59 PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MTG HT) IN AN ARLINGTON #VDVFRW 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.
- 61 SB6000 PANEL ENCLOSURE WITH 3 LITTLEFUSE SHOCKBLOCK GFCI PROTECTION DEVICES, AND SB6100 SHOCK BLOCK GFCI PROTECTION DEVICE. ENSURE CONDUITS ARE INSTALLED FOR LINE AND LOAD WIRES TO BE INSTALLED WITH PROPER WIRE BENDING SPACE. LABEL EACH SHOCK BLOCK WITH PANEL AND CIRCUIT NUMBER IT CONTROLS.
- 62 ONE 3" ISP SERVICE CONDUIT. EXTEND WITH PULL STRING FROM J-BOX TO SUPPLIER'S SOURCE. REFER TO ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.
- 64 PROVIDE TWO 6" H X 6" W X 4" D J-BOXES (ONE FOR TELEPHONE AND ONE FOR ISP) AT 6'-6" AFF AND EXTEND A 2" CONDUIT WITH PULL STRING IN THE WALL FROM EACH J-BOX INTO THE ACCESSIBLE CEILING SPACE. PROVIDE A 36" X 36" X 3/4" PLYWOOD BACKBOARD ON THE WALL ABOVE THE J-BOXES (AT THE CEILING) FOR USE BY THE ISP. PROVIDE A COPPER GROUND BAR (EQUAL TO GRCO T8B24L14P) AT THE BOTTOM OF THE BACKBOARD WITH A #6 AWG INSULATED CU GROUNDING CONDUCTOR IN A 3/4" C FROM THE GROUND BAR TO THE INTER SYSTEM BONDING TERMINATION NEXT TO THE SERVICE ENTRANCE. THE GROUND BAR SHALL HAVE TAPS FOR USE BY THE TELEPHONE AND ISP UTILITY COMPANIES AND FOR THE #6 COMMUNICATIONS GROUNDING CONDUCTOR TO THE GES. PROVIDE A 15 AMP ISOLATED GROUND (IG) ORANGE-FACED DUPLEX RECEPTACLE IN THE WALL BESIDE THE BACKBOARD AND LABEL THE RECEPTACLE "FOR FIBER TO CABLE MODEM USE ONLY". BOND NETWORK RACKS TO GROUND BAR.
- 65 PROVIDE JUNCTION BOX AT 8'-0" AFF WITH CONDUIT AND CONDUCTORS TO PANELBOARD FOR FUTURE CONNECTION TO BOOSTER PUMP. REFER TO THE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 73 SEE THE ELECTRICAL ROOF PLAN FOR THE LOCATION OF THE ICE MAKER CONDENSERS AND ANY ADDITIONAL REQUIREMENTS.
- 75 PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLE IN COMPLIANCE WITH THE NEC REQUIREMENT FOR KITCHEN/FOOD PREP AREAS. IF THE RECEPTACLE OUTLET IS NOT NOTED AS GFCI, THEN THE BREAKER IS TO BE GFCI TYPE.
- 80 JUNCTION BOX ABOVE CEILING FOR AIR CURTAIN.
- 85 PROVIDE A "RETROFIT" DOUBLE GANG RING (CARLON #SC200RR) FOR OWNER'S DEVICE PLATE WITH A 1-1/4" EMPTY CONDUIT AT THE OPENING STUBBED UP INTO THE CEILING SPACE FOR OWNER'S DATA CABLES.
- 86 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS MONITOR(S). COVER PLATE PROVIDED BY OWNER'S POS SYSTEM VENDOR.
- 88 PROVIDE A "RETROFIT" SINGLE GANG RING (CARLON #SC100RR) FOR OWNER'S DEVICE PLATE WITH A 1" EMPTY CONDUIT AT THE OPENING STUBBED UP INTO THE CEILING SPACE FOR OWNER'S DATA CABLES.
- 89 PROVIDE SINGLE-GANG JUNCTION BOX WITH A 1" CONDUIT EXTENDING UP INTO THE CEILING SPACE FOR POS TERMINAL. POS SYSTEM SUPPLIER WILL PROVIDE COVER PLATE ON BOX.
- 90 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.
- 93 PROVIDE ORANGE ISOLATED GROUND (IG) DUPLEX RECEPTACLE.
- 94 PROVIDE GROUND FAULT PROTECTION FOR THESE DEVICES VIA A GROUND FAULT CIRCUIT BREAKER IF LOCAL CODE DEFINES THIS A FOOD PREPARATION AREA.
- 95 USE TYPE MC CABLE FOR THE ISOLATED GROUND CIRCUIT: #12 HOT, NEUTRAL, GREEN GROUND, STRIPED ISOLATED GROUND. EACH 15 AMP HOMERUN SHALL BE DEDICATED TO A CIRCUIT BREAKER VIA DEDICATED CONDUCTORS WITHIN A CABLE ASSEMBLY. ALL MC CABLES SHALL BE RUN OVERHEAD ABOVE THE CEILING AND RACKED TOGETHER ON J-HOOKS. NO SPLICES IN ANY HOMERUN CABLES FROM FIRST RECEPTACLE TO BREAKER.
- 96 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.
- 97 PROVIDE SINGLE GANG JUNCTION BOX AND STAINLESS STEEL COVER PLATE WITH 7/8" HOLE IN CENTER FOR VIDEO MONITOR. EXTEND 1" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.
- 98 PROVIDE 4" W X 4" H X 3" D FLUSH JUNCTION BOX WITHOUT A COVERPLATE. EXTEND 2" CONDUIT UP TO ABOVE ACCESSIBLE OFFICE CEILING AREA AND PROVIDE BUSHING ON CONDUIT.
- 99 PROVIDE 4" W X 4" H X 3" D JUNCTION BOX WITHOUT COVERPLATE AND EXTEND A 2" CONDUIT DOWN THROUGH SLAB 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 1.5" CONDUIT DOWN TO A SECOND SINGLE-GANG JUNCTION BOX AT THE CCTV MONITOR LOCATION.
- 101 PROVIDE SINGLE GANG BOX WITHOUT COVER PLATE FOR RECEIPT PRINTER. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING.
- 104 EXTEND 3/4" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.
- 107 PROVIDE SINGLE GANG JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED ABOVE THE CEILING SPACE AND ABOVE ON THE INTERIOR SIDE OF THE REAR DOOR. ROUTE 1" CONDUIT FROM THE BOX TO THE "109" BOX NOTED BELOW.
- 109 PROVIDE SINGLE GANG, WEATHER-PROOF JUNCTION BOX WITH STAINLESS STEEL COVER PLATE MOUNTED ABOVE THE REAR DOOR ON THE EXTERIOR WALL. ROUTE 1" CONDUIT FROM THE BOX AND INTO THE BUILDING AND TERMINATE CONDUIT IN THE BOX NOTED IN "107" ABOVE.
- 137 SINGLE GANG JUNCTION BOX AT +72" A.F.F. WITH 3/4" CONDUIT STUB-UP INTO CEILING SPACE FOR TV.
- 138 PROVIDE A JUNCTION BOX WITH A 3/4" CONDUIT STUBBED UP INTO CEILING SPACE FOR THE PICK-UP STATUS BOARD MONITOR. MOUNT AT +84" A.F.F.
- 155 LOCATION OF THE INPUT & OUTPUT J-BOXES FOR THE PIB (POWER INTERFACE BOX) PROVIDED BY THE OWNER.
- 157 PROVIDE PLUG AND CORDSET.
- 158 LABEL AS SWITCHED OUTLET.
- 160 VERIFY WATER FILTER LOCATION WITH THE PLUMBING PLANS PRIOR TO ROUGH-IN.
- 164 ON/OFF SWITCH FOR AIR CURTAIN PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.



C1 ENLARGED BOH POWER PLAN
1/2" = 1'-0"

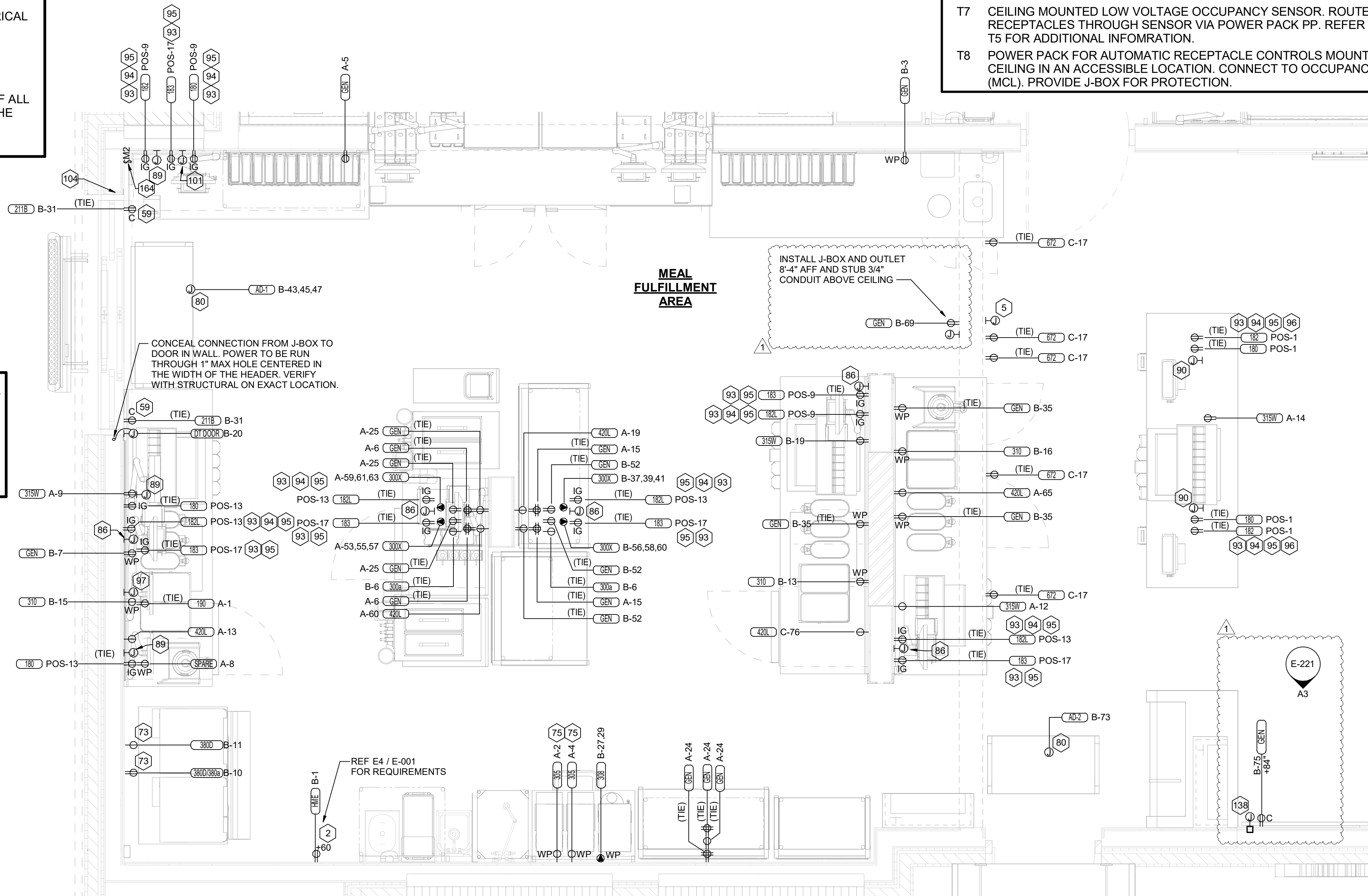
POWER PLAN GENERAL NOTES

- A. ALL SECURITY, POS, MUSIC, COMMUNICATIONS, AND POWER ROUGH-IN SHALL BE INSTALLED DURING THE FRAMING/ROUGH-IN PHASE OF CONSTRUCTION.
- B. REFER TO KITCHEN EQUIPMENT SHEETS FOR EQUIPMENT ELECTRICAL ROUGH-IN ELEVATIONS ABOVE FINISHED FLOOR.
- C. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
- D. PROVIDE INSULATED BUSHING AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.
- E. THE ELECTRICAL INSTALLER SHALL COORDINATE THE ROUTING OF ALL CONDUIT IN THE BUILDING WITH OTHER TRADES (SPECIFICALLY THE DUCTWORK INSTALLATION) TO AVOID CONFLICTS OF SPACE REQUIREMENTS IN WALLS AND CEILING SPACES.

NOTE:
RECEPTACLES FOR THE POS EQUIPMENT SHALL BE THE ONLY ITEMS THAT CONNECT TO PANEL-POS. THERE SHALL BE NO OTHER LOADS CONNECTED TO THIS ISOLATED GROUND PANEL AND, IF SO, SHALL BE REMOVED AND RECONNECTED TO ANOTHER PANELBOARD AT THE EXPENSE OF THE CONTRACTOR.

NOTE FOR GF TYPE RECEPTACLES IN KITCHEN/FOOD PREP AREAS:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 120 VOLT, 15 AND 20 AMP ISOLATED GROUND RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE BREAKER VIA A GROUND FAULT TYPE BRANCH BREAKER. (GFCI TYPE ISOLATED GROUND RECEPTACLES ARE NOT AVAILABLE.)

NOTE FOR POS GF IN KITCHEN:
THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL 120 VOLT, 15 AND 20 AMP ISOLATED GROUND RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN/FOOD PREPARATION AREAS. GROUND FAULT PROTECTION SHALL BE PROVIDED AT THE BREAKER VIA A GROUND FAULT TYPE BRANCH BREAKER. (GFCI TYPE ISOLATED GROUND RECEPTACLES ARE NOT AVAILABLE.)



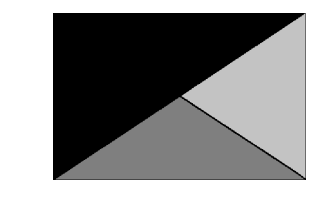
A1 ENLARGED SERVING AREA POWER PLAN
1/2" = 1'-0"

ELECTRICAL KEYNOTES

- T6 OCCUPANCY CONTROLLED OUTLET. BOTTOM HALF OF OUTLET SHALL BE CONTROLLED VIA LOCAL CEILING MOUNTED OCCUPANCY SENSOR (MCL) AND POWER PACK (PP). TOP HALF OF OUTLET SHALL NOT BE ROUTED THROUGH CONTROLS. CONTRACTOR SHALL PROVIDE COOPER/ARROW HART MODEL #5362 RECEPTACLE.
- T7 CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR. ROUTE CONTROLLED RECEPTACLES THROUGH SENSOR VIA POWER PACK PP. REFER TO KEYNOTE T5 FOR ADDITIONAL INFORMATION.
- T8 POWER PACK FOR AUTOMATIC RECEPTACLE CONTROLS MOUNTED ABOVE CEILING IN AN ACCESSIBLE LOCATION. CONNECT TO OCCUPANCY SENSOR (MCL). PROVIDE J-BOX FOR PROTECTION.



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03/26/24

CHICK-FIL-A
HULL STREET AT
12280 BRIDGEWOOD CROSSINGS
DRIVE
MIDLOTHIAN, VA 23112

FSR#05416

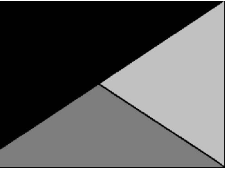
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ENLARGED SERVING AND BOH POWER PLAN
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02/02/24

CHICK-FIL-A
RELO HULL STREET FSU
12280 BRIDGEWOOD CROSSING
Midlothian, VA 23112

FSR#05416

BUILDING TYPE / SIZE: P14 LE BN
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1	02/05/2024	DESIGN

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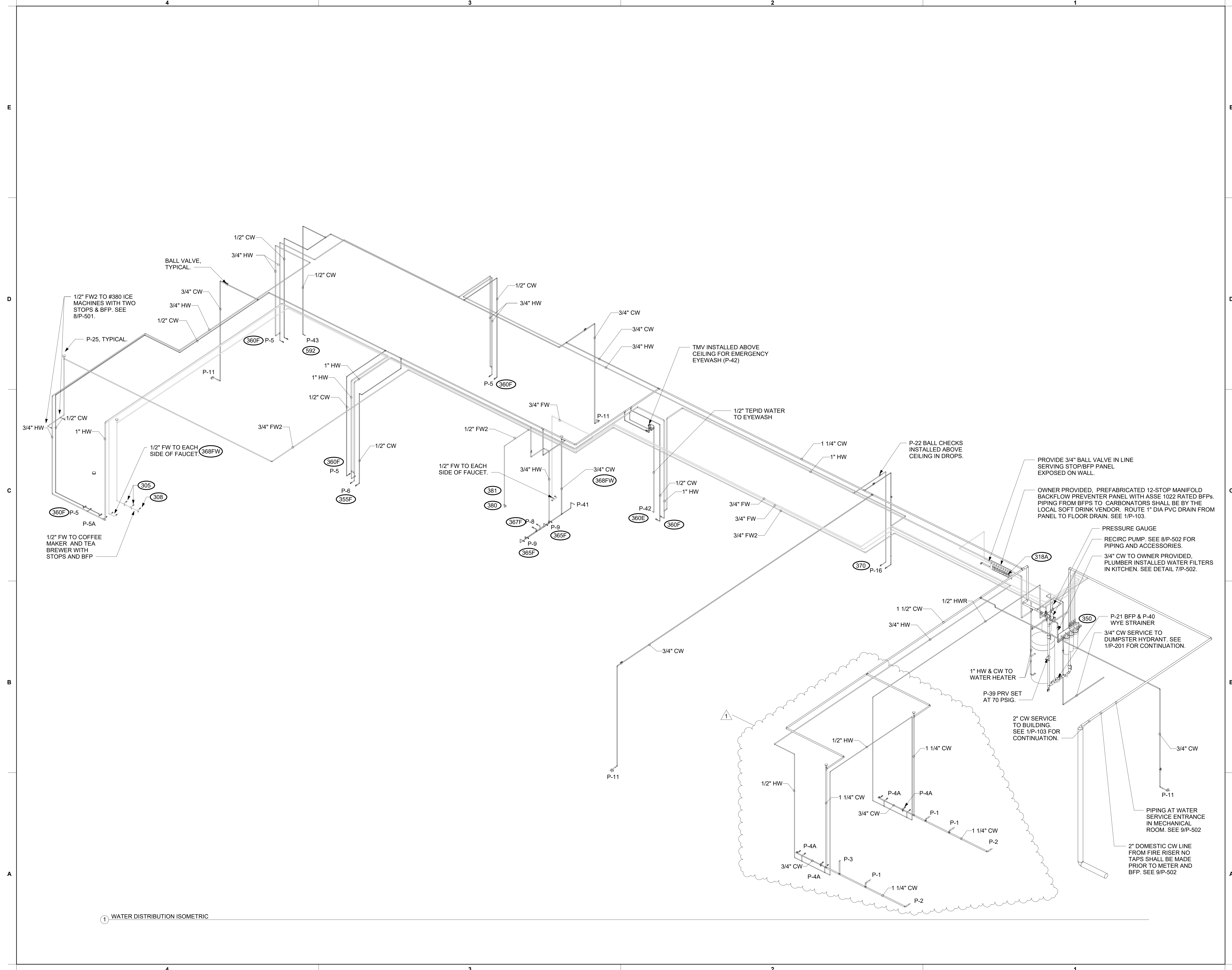
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WATER DISTRIBUTION ISOMETRIC

SHEET NUMBER

P-902



1 WATER DISTRIBUTION ISOMETRIC

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Distribution Panel: MDP

LOCATION: SUPPLY FROM: MOUNTING: ENCLASURE: NEMA 3R

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K
MAINS TYPE: MCB
MAINS RATING: 1200 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT
1	1	PANEL-D1	250 A	3	19.47	24.02				PANEL-D2	2	ST
3	3				20.46	24.02					4	
5	5						19.23	24.02			6	
7	7	ROOFTOP UNIT (AC#1)	150 A	3	16.44	24.02				PANEL-D3	8	ST
9	9				16.44	24.02					10	
11	11						16.44	24.02			12	
13	13	ROOFTOP UNIT (AC#2)	90 A	3	9.48	9.48				90 A	14	
15	15				9.48	9.48					16	
17	17						9.48	9.48			18	
19	19	PANEL-A (SUB-FEEDS PANEL-POS)	250 A	3	30.30	31.00				PANEL B	20	
21	21				29.89	27.02					22	
23	23				29.24	28.73					24	
25	25	TVSS	30 A	3	0.00	32.59				PANEL-C	26	
27	27				0.00	34.77					28	
29	29						0.00	32.99			30	
Total Load:					196.6 kVA	195.6 kVA						
Total Amps:					1642.5 A	1632.3 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HEAT	18272 VA	100.00%	18272 VA	
HVAC	119552 VA	100.00%	119552 VA	Total Conn. Load: 585.6 kVA
KITCHEN EQUIPMENT	146343 VA	65.00%	95123 VA	Total Est. Demand: 520.7 kVA
KITCHEN REFRIG EQUIPMENT	43839 VA	65.00%	28495 VA	Total Conn.: 1625.6 A
LIGHTING	15490 VA	125.00%	19362 VA	Total Est. Demand: 1445.4 A
MISCELLANEOUS	2328 VA	100.00%	2328 VA	
Motor	20962 VA	102.73%	21534 VA	
Other	0 VA	0.00%	0 VA	
RECEPTACLES	15586 VA	82.06%	12793 VA	
KITCHEN EQUIPMENT (100% DEMAND)	203273 VA	100.00%	203273 VA	

LOAD SUMMARY

TOTAL CONNECTED KVA	IF TOTAL LOAD IS 0_200 KVA	IF TOTAL LOAD IS 201_325 KVA	IF TOTAL LOAD IS 326-800 KVA	IF TOTAL LOAD IS OVER 800 KVA	DIVERSIFIED AMPS AT 208 VOLT
585.64 kVA	0	0	379.79	0	1054.96

585.64 kVA (NOT ALL ELECTRIC RESTAURANT LOAD)

Branch Panel: POS

LOCATION: Space 45
SUPPLY FROM: MOUNTING: ENCLASURE: NEMA 1

VOLTS: 120/120 Single
PHASES: 1
WIRES: 2
2+G+IG
PROVIDE JUMPER FOR PHASE A & B

A.I.C. SERIES RATING: 10K
MAINS TYPE: MLO
MAINS RATING: 100 A
MCB RATING:

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT
HIG	1	COUNTER STATIONS (180,182)	15 A	1	0.600	0.360				NETWORK CABINET	2	IG
	3	SPACE								SPACE	4	
	5	SPACE			0.070	1	15 A			OFFICE RECEPTACLE (COMP)	6	IG
	7	SPACE								SPACE	8	
HIG	9	DT POS STATION (180,182)	15 A	1	0.227	0.066	1	15 A		CL TABLE MONITORS (183,182L)	10	LIG
	11	SPACE								SPACE	12	
HIG	13	MLOP POS STATIONS (180,182L)	15 A	1	0.256	0.180	1	15 A		NETWORK CABINET	14	IG
	15	SPACE								SPACE	16	
HIG	17	MLOP MONITORS (183)	15 A	1	0.075	0.050	1	15 A		ISP MODEM	18	IG
	19	SPACE								SPACE	20	
HIG	21	PASS THRU MONITORS (183,182L)	15 A	1	0.176		1	15 A		SPACE	22	
	23	SPACE				0.000	1	20 A		BACKFEED MAIN BREAKER	24	
Total Load:					2.06 kVA							
Total Amps:					17.2 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
MISCELLANEOUS	1520 VA	100.00%	1520 VA	Total Conn. Load: 2.1 kVA
RECEPTACLES	540 VA	100.00%	540 VA	Total Est. Demand: 2.1 kVA
Total Conn.: 17.2 A				
Total Est. Demand: 17.2 A				

GFCI REQUIREMENTS PER 2017 NEC:

THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN / FOOD PREPARATION AREAS IN ACCORDANCE WITH THE 2017 EDITION OF THE NEC.

PANELBOARD NOTES

(A) CONTROLLED BY RELAY IN CONTROL PANEL CFA-T500 AND STORE-OPEN EXHAUST FAN SWITCH. PANELBOARD SUPPLIER TO PROVIDE NOTATION ON CIRCUIT THAT THE CFA-T500 ALSO HAS AN INTEGRAL BREAKER ON THE FAN CIRCUITS FOR THE DISCONNECTION OF POWER AT THE CONTROLLER PER THE NEC. SEE CFA-T500 CONTROL PANEL CONNECTION DIAGRAM ON E-001P. CONTROLLED BY EXTERIOR SIGN RELAY IN CONTROL PANEL CFA-T500.

(B) CONTROLLED BY EXTERIOR LIGHTING RELAY IN CONTROL PANEL CFA-T500.

(C) CONTROLLED BY EXTERIOR LIGHTING RELAY - DUSK TO DAWN ZONE.

(D) CONTROLLED BY PARKING LOT LIGHTING CONTROL SWITCH.

(E) GFCI TYPE BREAKER TO BE 30MA TYPE BREAKER.

(H) THE CONTRACTOR SHALL PROVIDE GROUND FAULT TYPE RECEPTACLES FOR ALL 120 VOLT, 15 AND 20 AMP, RECEPTACLES IN THE KITCHEN/FOOD PREPARATION AREA UNLESS NOTED OTHERWISE. (NOTE THAT THE RECEPTACLES FOR THE OEP BOXES, THE KITCHEN/SERVING AREA, SERVING EQUIPMENT, AND THE CIRCUIT FOR THE FLY SYSTEM SHALL BE PROTECTED BY GROUND FAULT TYPE CIRCUIT BREAKERS RATHER THAN GROUND FAULT TYPE RECEPTACLES SINCE ISOLATED GROUNDING TYPE RECEPTACLES AND CLOCK TYPE RECEPTACLES ARE NOT AVAILABLE AS GROUND FAULT TYPE.) GFCI BREAKERS REQUIRE A DEDICATED NEUTRAL (NOT SHARED) TO OPERATE PROPERLY.

(I) GFCI TYPE BREAKER TO BE 5MA TYPE BREAKER.

(J) ISOLATED GROUND.

(K) CONTROLLED BY INTERIOR LIGHTING RELAYS IN CONTROL PANEL T-500. LIGHTS SHALL TURN ON WHEN STORE IS OCCUPIED.

(L) LOCK-ON.

(M) LOCK-OFF FOR MAINTENANCE.

(N) HIGH MAG LOAD.

(SB) THRU (1) SB6100-020-0 GFCI PROTECTION DEVICE IN SB6000 PANEL ENCLOSURE OR (1) SB6100-021-0 GFCI PROTECTION DEVICE SURFACE MOUNTED ENCLOSURE FOR 80 AMP FRYERS, OR (1) SB5060-021-0 GFCI PROTECTION DEVICE SURFACE MOUNTED ENCLOSURE FOR 60 AMP DISHWASHER.

(ST) SHUNT TRIP. INTERLOCK W/ FIRE SUPPRESSION SYSTEM VIA T-500 PANEL. REFER TO WIRING INSTRUCTIONS INCLUDED WITH SHUNT TRIP BREAKER.

(S) SURGE PROTECTION FOR INDIVIDUAL CIRCUIT. MOUNT SINGLE CIRCUIT SURGE PROTECTION DEVICE (SQUARE D) SDSA1175T TO FACEPLATE MOUNTED ON JUNCTION BOX DIRECTLY ABOVE PANELBOARD SERVING LOAD.

Branch Panel: A

LOCATION: SUPPLY FROM: MOUNTING: ENCLASURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT
H	1	TELEPHONE DT VIDEO (150)	20 A	1	0.456	1.656				TEA BREWER (305)	2	I
H	3	OFFICE GEN OUTLETS, (CO2-669)	20 A	1		0.720	1.656			TEA BREWER (305)	4	I
H	5	GENERAL OUTLET	20 A	1			0.084	0.720		GENERAL OUTLET	6	H
H	7	OFF GEN OUTLETS, PRINTER, MUSIC	20 A	1	1.630	0.180				FUTURE/SPARE DRINK TOWER (315W)	8	H
H	9	DRINK TOWER (315W)	20 A	1		1.200	2.240			GENERAL OUTLETS/DOORBELL	10	M
H	11	SPARE	20 A	1			0.000	1.200		DRINK TOWER (315W)	12	I
H	13	U.C. REFRIG (420L)	20 A	1	0.564	1.200				DRINK TOWER (315W)	14	I
H	15	GENERAL OUTLET	20 A	1		0.720	0.480			SECURITY SYSTEM	16	L
I	17	U.C. REFRIG (421)	20 A	1			0.756	0.749		35 A	18	LO
I	19	U.C. REFRIG (420L)	20 A	1	0.564	0.749				COOLER CONDENSER / EVAP COIL (449)	20	LO
I	21	SINGLE SANDWICH SLIDE (563SL)	20 A	1		0.547	0.690				22	--
I	23	DOUBLE SANDWICH SLIDE (563D)	20 A	1			1.096	1.080		GEN OUTLETS	24	H
H	25	GEN OUTLET	20 A	1	0.540	1.752				35 A	26	LO
H	27	CARBONATOR (320)	20 A	1		0.744	1.908			FREEZER CONDENSER / EVAP COIL (410)	28	LO
H	29	CARBONATOR (320)	20 A	1			0.744	1.908			30	--
H	31	CARBONATOR (320)	20 A	1	0.744	0.500				FREEZER HEAT TAPE (410)	32	F
H	33	CARBONATOR (320)	20 A	1		0.744	0.360			GEN OUTLET IN TECH CLOSET	34	I
H	35	BOOSTER PUMP	30 A	2			1.144	1.920		CIR A1-HOT HOLDING CABINET (562A)	36	I
--	37	--	--	--	1.144	1.800				CIR B1-VERTICAL TOASTER (500A)	38	I
--	39	--	--	--	0.528	0.180				CIR C1-GENERAL OUTLET (122)	40	I
H	41	GENERAL OUTLETS	20 A	1		0.420	1.920			CIR D1-HOT HOLDING CABINET (580H)	42	I
43	43	GEN OUTLET TECH CLOSET	20 A	1	0.180	0.564				CIR E1-U.C. REFRIG (420L)	44	I
45	45	GEN OUTLET TECH CLOSET	20 A	1		0.180	0.180			CIR F1-GEN OUTLET (122)	46	I
47	47	FUTURE/RACK AC TECH CLOSET	20 A	1			1.272	1.800		CIR G1-VERTICAL TOASTER (500A)	48	I
49	49	FUTURE/RACK AC TECH CLOSET	20 A	1	1.272	2.496				CIR H1-RADIANT TOASTER (500B)	50	I
51	51	SPARE	20 A	1		0.000	2.496				52	--
LOJ	53	ICE CREAM MACHINE (300X)	30 A	3			1.801	2.642		30 A	54	I
--	55	--	--	--	1.801	2.642				RETHEMALIZER (592)	56	--
--	57	--	--	--							58	--
LOJ	59	ICE CREAM MACHINE (300X)	20 A	3			2.282	0.564		20 A	60	I
--	61	--	--	--	2.282	3.000				40 A	62	--
--	63	--	--	--	2.282	3.000					64	--
I	65	U.C. REFRIG (420L)	20 A	1			0.564	0.660		20 A	66	I
I	67	SPARE	20 A	1	0.000	1.920				20 A	68	I
I	69	CIR D2-HOT HOLDING CABINET (580H)	20 A	1		1.920	0.180			20 A	70	I
I	71	CIR E2-U.C. REFRIG (420L)	20 A	1			0.564	0.852		20 A	72	I
I	73	CIR F2-HOT HOLDING CABINET (564B)	20 A	1	0.660	0.000				20 A	74	I
I	75	CIR H2-SPARE/FUTURE (500B)	30 A	2		2.496	0.000			20 A	76	I
--	77	--	--	--			2.496	0.000		20 A	78	I
79	79	SPARE	20 A	1	0.000	--				20 A	80	I
81	81	SPARE	20 A	1		0.000	--			20 A	82	I
83	83	SPARE	20 A	1		0.000	--			20 A	84	I
Total Load:					30.30 kVA	29.89 kVA		29.24 kVA				
Total Amps:					253.3 A	250.0 A		243.6 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HEAT	6000 VA	100.00%	6000 VA	Total Conn. Load: 89.4 kVA
HVAC	2544 VA	100.00%	2544 VA	Total Est. Demand: 248.2 A
KITCHEN EQUIPMENT	56246 VA	65.00%	36560 VA	Total Conn.: 248.2 A
KITCHEN REFRIG EQUIPMENT	11332 VA	65.00%	7366 VA	Total Est. Demand: 184.2 A
MISCELLANEOUS	2284 VA	100.00%	2284 VA	
Motor	2816 VA	120.31%	3388 VA	
RECEPTACLES	8206 VA	100.00%	8206 VA	

Branch Panel: B

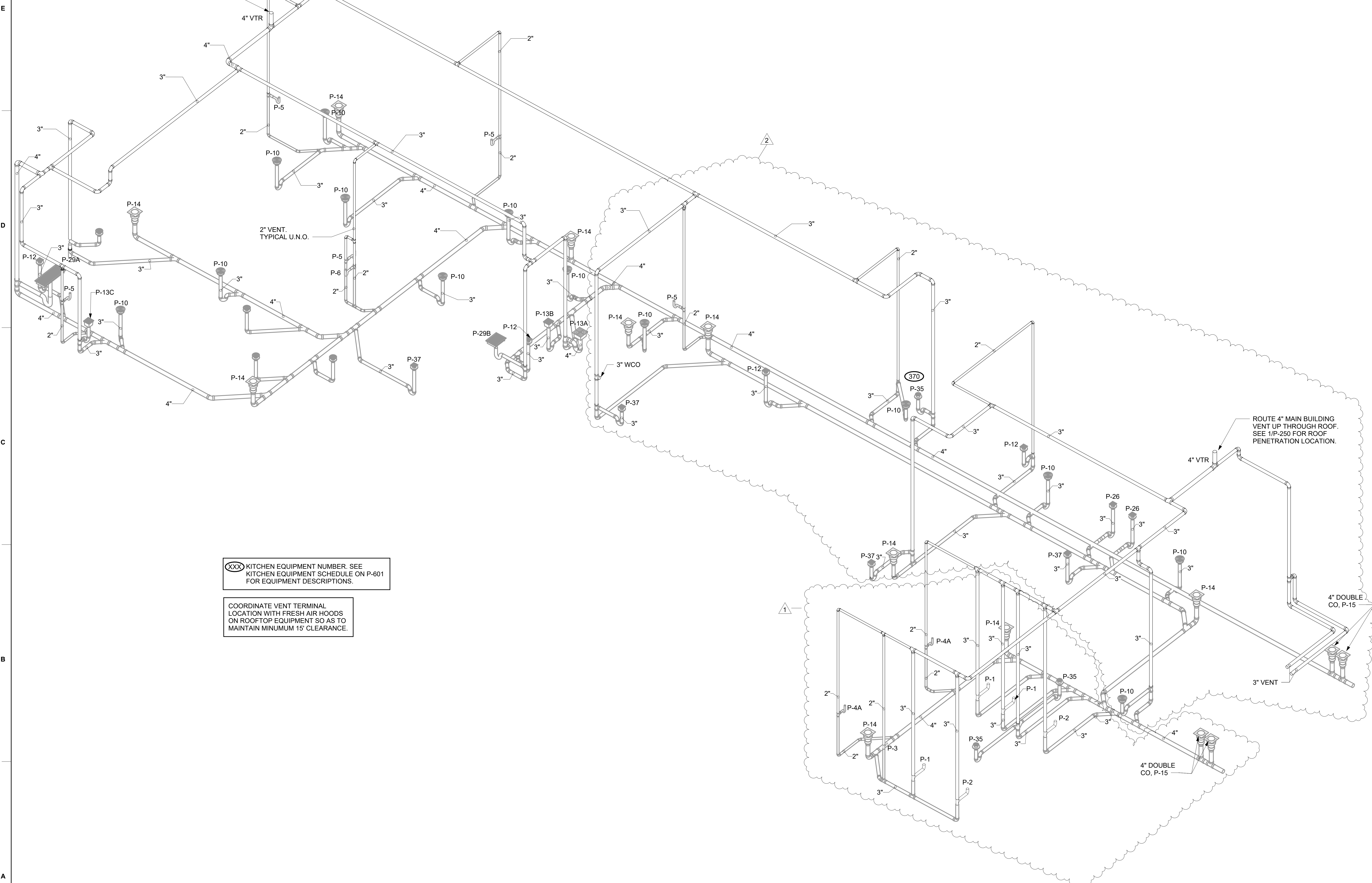
LOCATION: SUPPLY FROM: MOUNTING: ENCLASURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. SERIES RATING: 65K/10K
MAINS TYPE: MLO
MAINS RATING: 250 A

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT
H	1	HME	20 A	1	0.180	1.128				20 A	2	I
H	3	GENERAL OUTLET	20 A	1		0.180	0.180			20 A	4	I
H	5	ROOF RECEPTACLES	20 A	1			1.068	0.960		15 A	6	H
H	7	GENERAL OUTLET	20 A	1	0.180	0.000				20 A	8	H
H	9	GENERAL OUTLETS/DOORBELL	20 A	1		0.708	0.610			15 A	10	H
I	11	INTERIOR ICE MAKER (380D)	15 A	1		0.600	1.128			20 A	12	I
I	13	DOUBLE LEMONADE BUBBLER (310)	20 A	1	1.020	0.610				15 A	14	I
I	15	DOUBLE LEMONADE BUBBLER (310)	20 A	1		1.020	1.020			20 A	16	I
LO	17	UNHEATED AIR DOOR (AD-3)	20 A	1			0					

ROUTE 4" MAIN BUILDING VENT ABOVE DRIVE-THRU CEILING AND UP THROUGH ROOF. SEE 1/P-250 FOR ROOF PENETRATION LOCATION.



XXX KITCHEN EQUIPMENT NUMBER. SEE KITCHEN EQUIPMENT SCHEDULE ON P-601 FOR EQUIPMENT DESCRIPTIONS.

COORDINATE VENT TERMINAL LOCATION WITH FRESH AIR HOODS ON ROOFTOP EQUIPMENT SO AS TO MAINTAIN MINIMUM 15' CLEARANCE.

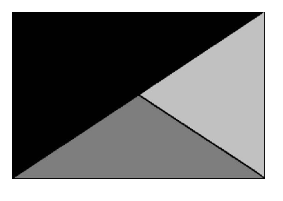
ROUTE 4" MAIN BUILDING VENT UP THROUGH ROOF. SEE 1/P-250 FOR ROOF PENETRATION LOCATION.

2/15/2024 5:18:06 PM Autodesk Docs://VA_05416_RELO Hull Street FSU_2023.4_FSR05416_RELO Hull Street FSU_PLB.mt 40-LE-05416-P-901-DRAIN, WASTE AND VENT ISOMETRIC

1 DRAIN, WASTE AND VENT ISOMETRIC



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 Chick-fil-A
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02/15/24

CHICK-FIL-A
RELO HULL STREET FSU
 12280 BRIDGEWOOD CROSSING
 Midlothian, VA 23112

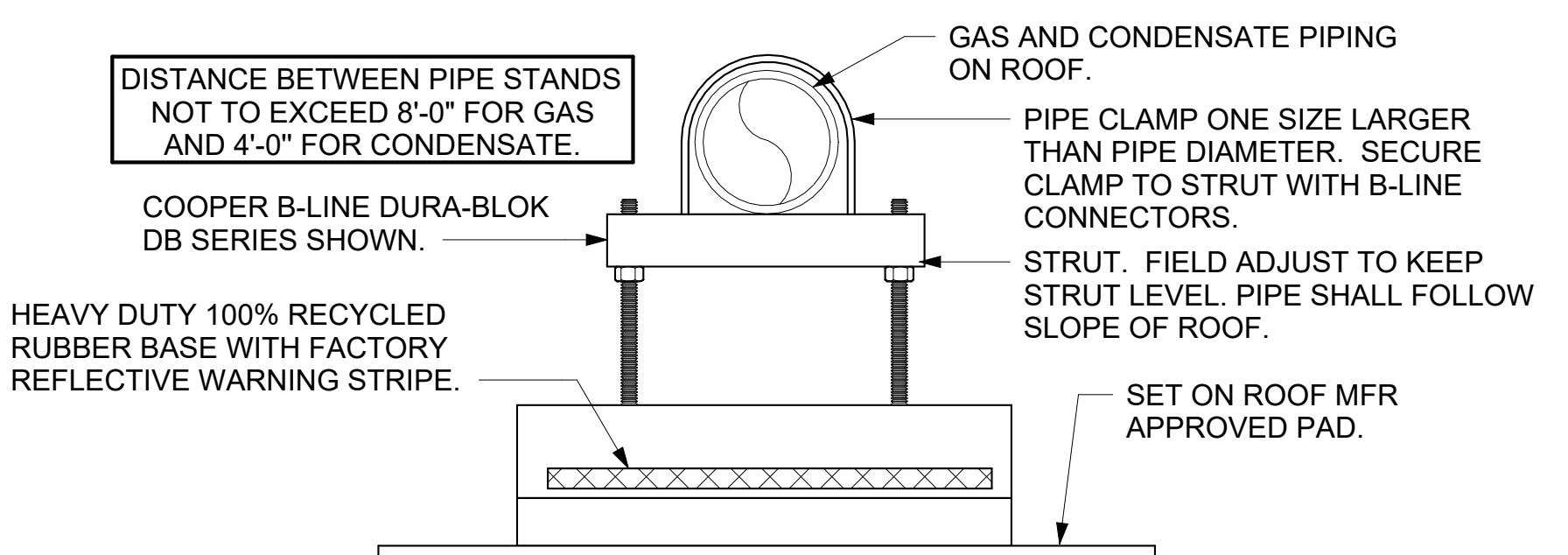
FSR#05416
 BUILDING TYPE / SIZE: P14 LE BN
 RELEASE: 23.02

CONSTRUCTION		
NO.	DATE	DESCRIPTION
1	02/05/2024	DESIGN
2	02/07/2024	BUILDING

CONSULTANT PROJECT # 23141.EH.S
 DATE 09/18/23
 DRAWN BY CH
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 SHEET DRAIN, WASTE AND VENT ISOMETRIC
 SHEET NUMBER

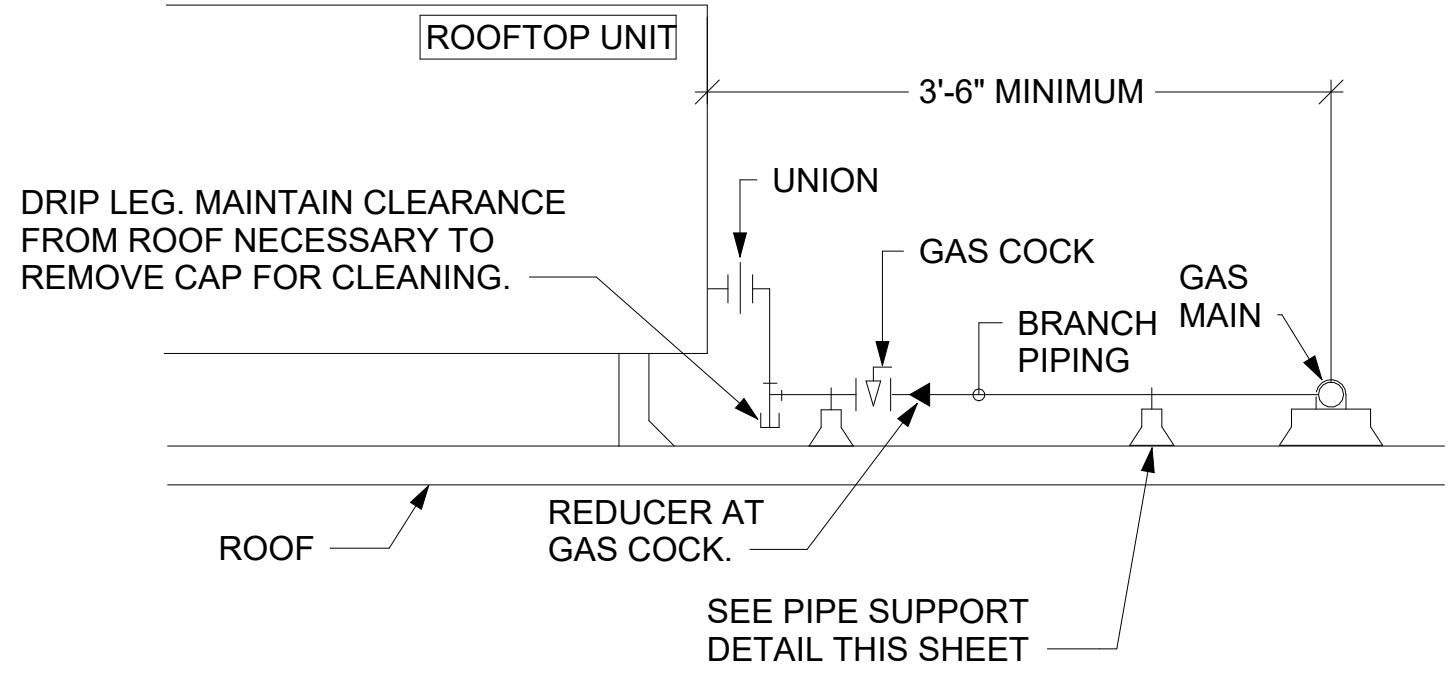
P-901

- NOTES:**
- NON ADJUSTABLE MODEL DB610 PIPE STAND TO BE USED FOR NON-ELEVATED PIPING INSTALLED FLAT ON ROOF DECK.
 - PROVIDE MODEL DBE 10-8 OR DBE 10-12 OR DBE 10-16 AS NEEDED FOR ELEVATING CONDENSATE PIPING TO MAINTAIN PROPER SLOPE AND FOR GAS PIPING CROSSING OVER CONDENSATE PIPING.
 - 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.

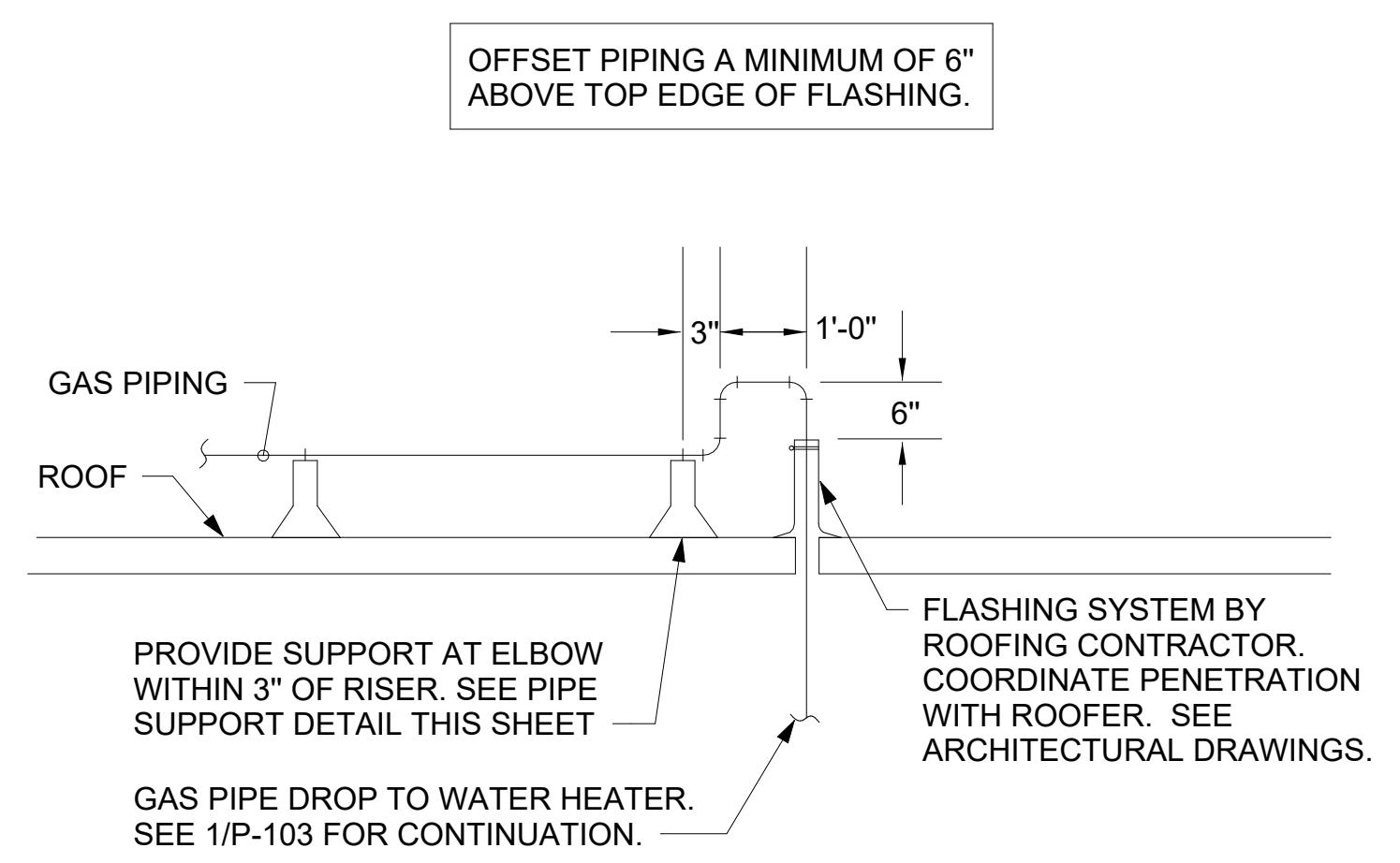


1 PIPING SUPPORT ON ROOF NOT TO SCALE

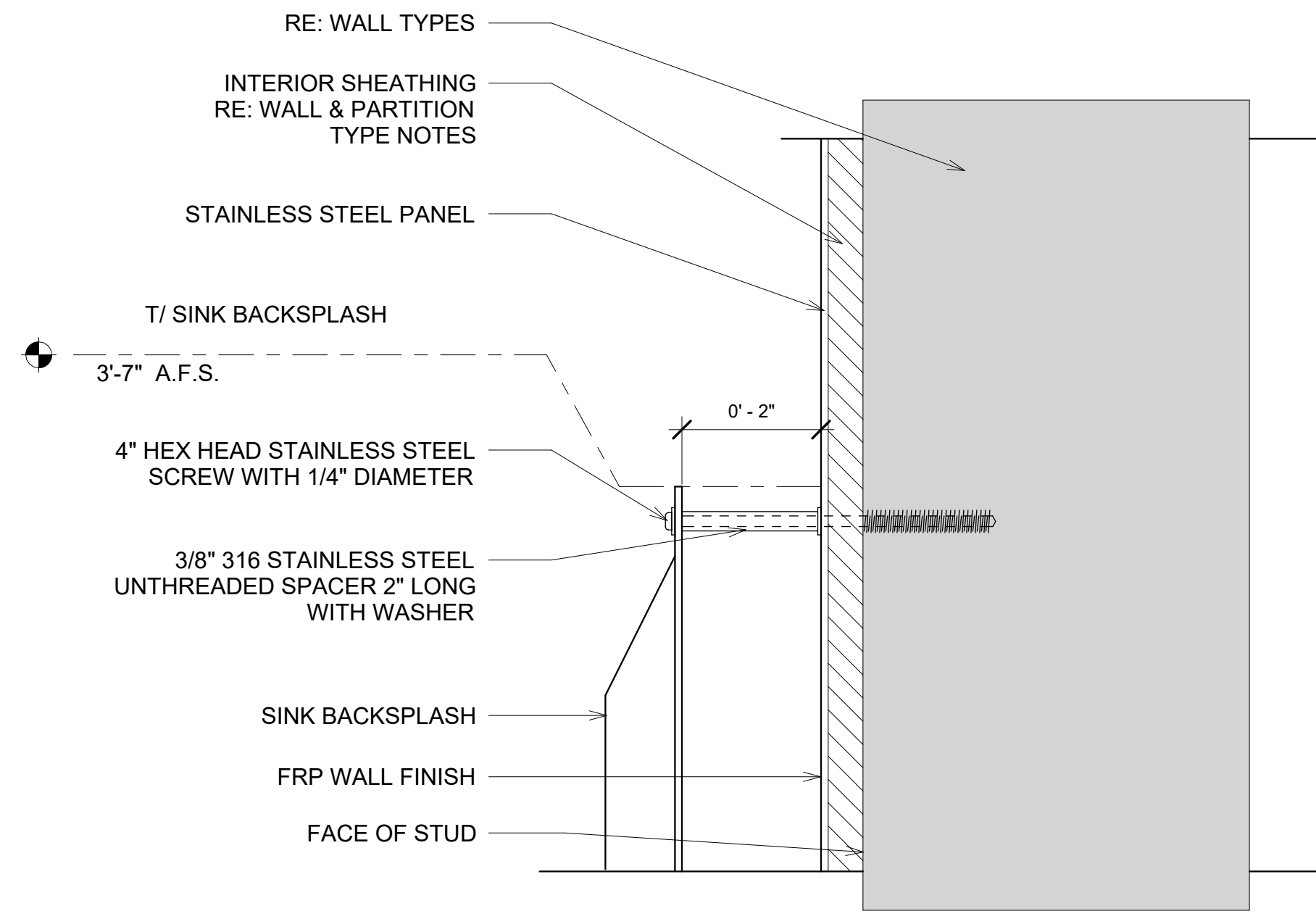
- NOTES:**
- INSTALL GAS PIPING SUCH THAT HVAC EQUIPMENT ACCESS PANELS AND/OR DOORS ARE IN NO WAY OBSTRUCTED BY PIPING, VALVES, OR SUPPORTS.
 - TO AVOID CONFLICT WITH AC UNIT ACCESS DOORS, INSTALL GAS PIPING NO CLOSER THAN 3'-6" FROM AC UNIT. (EXCEPT FOR BRANCH LINE CONNECTED TO AC UNIT.)
 - ROUTE BRANCH TAKE-OFF DIRECTLY FROM MAIN TO ROOFTOP UNIT AS SHOWN ON PLAN AND DETAILS WITHOUT LATERAL OFFSETS WHICH MAY OBSTRUCT UNIT ACCESS DOORS.



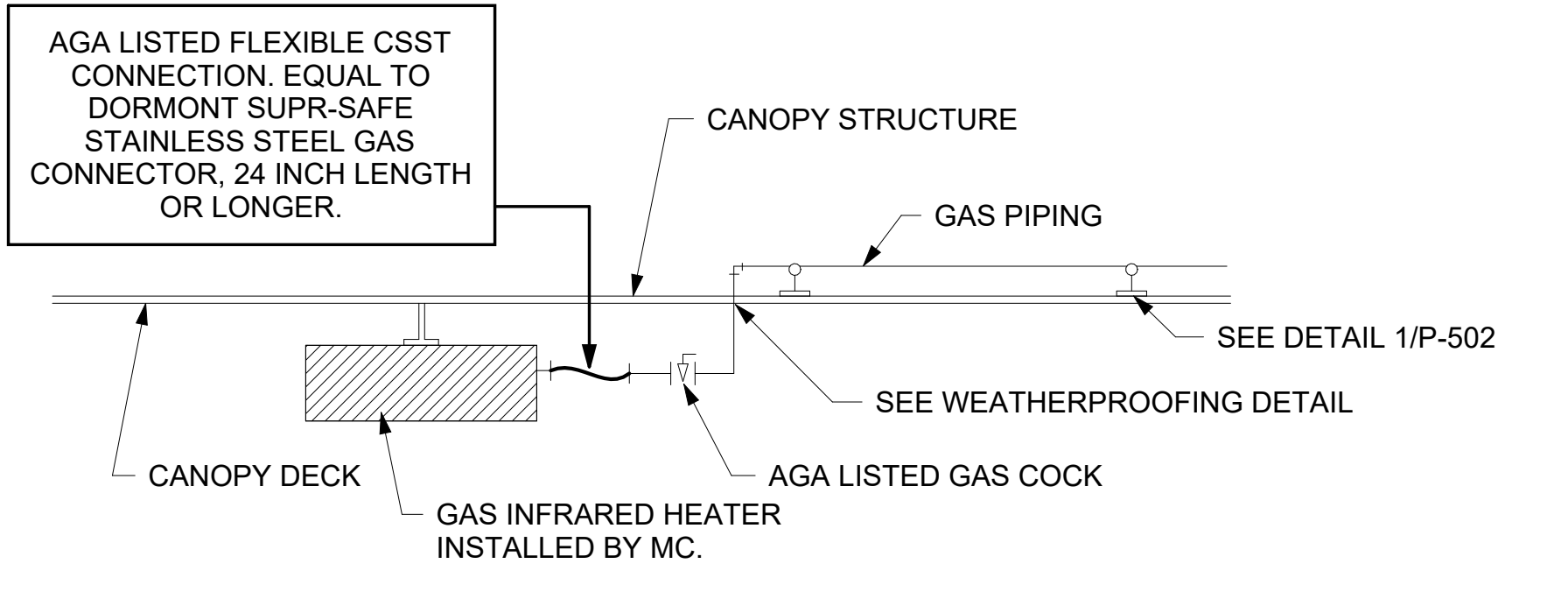
2 GAS PIPING AT RTU NOT TO SCALE



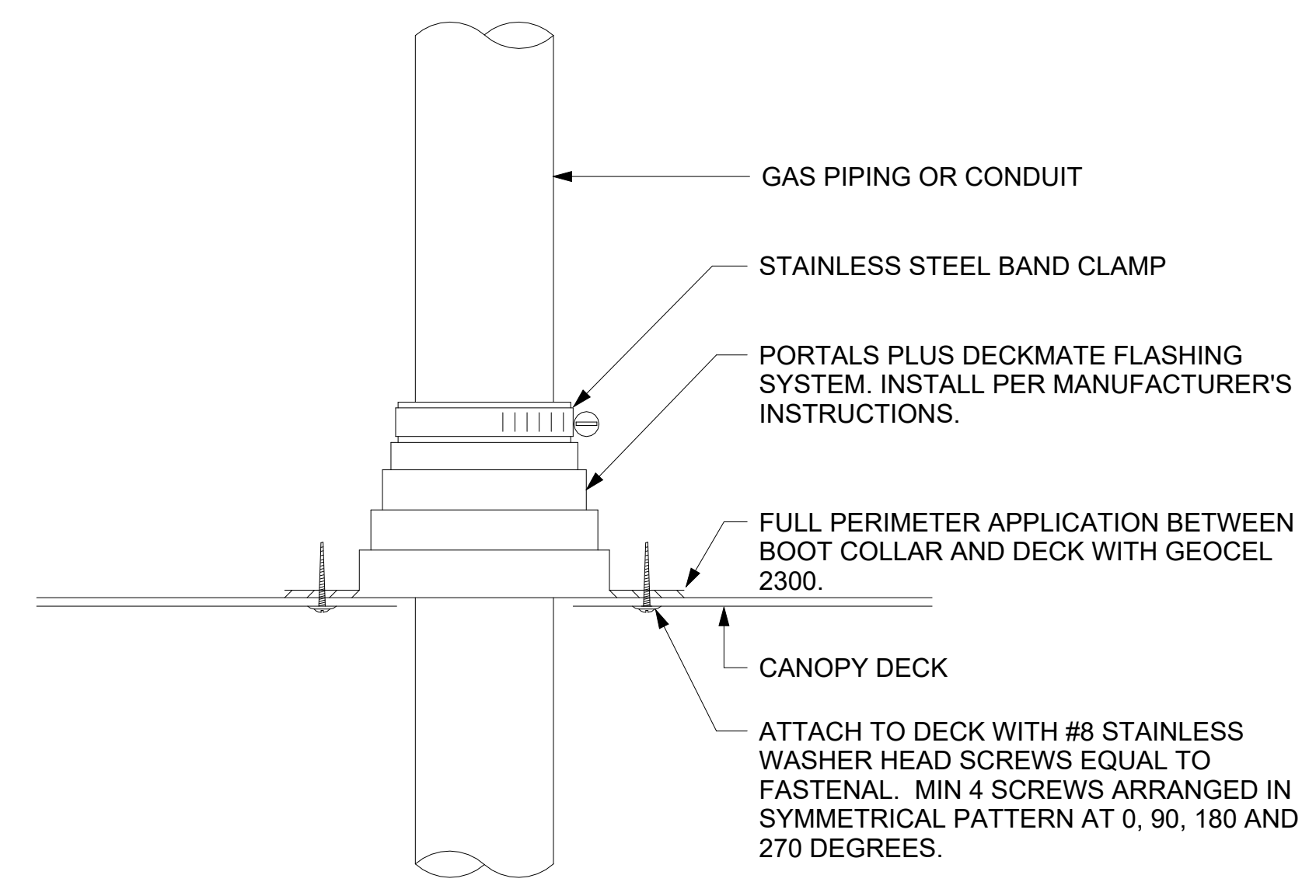
3 GAS PIPE DROP TO WATER HEATER NOT TO SCALE



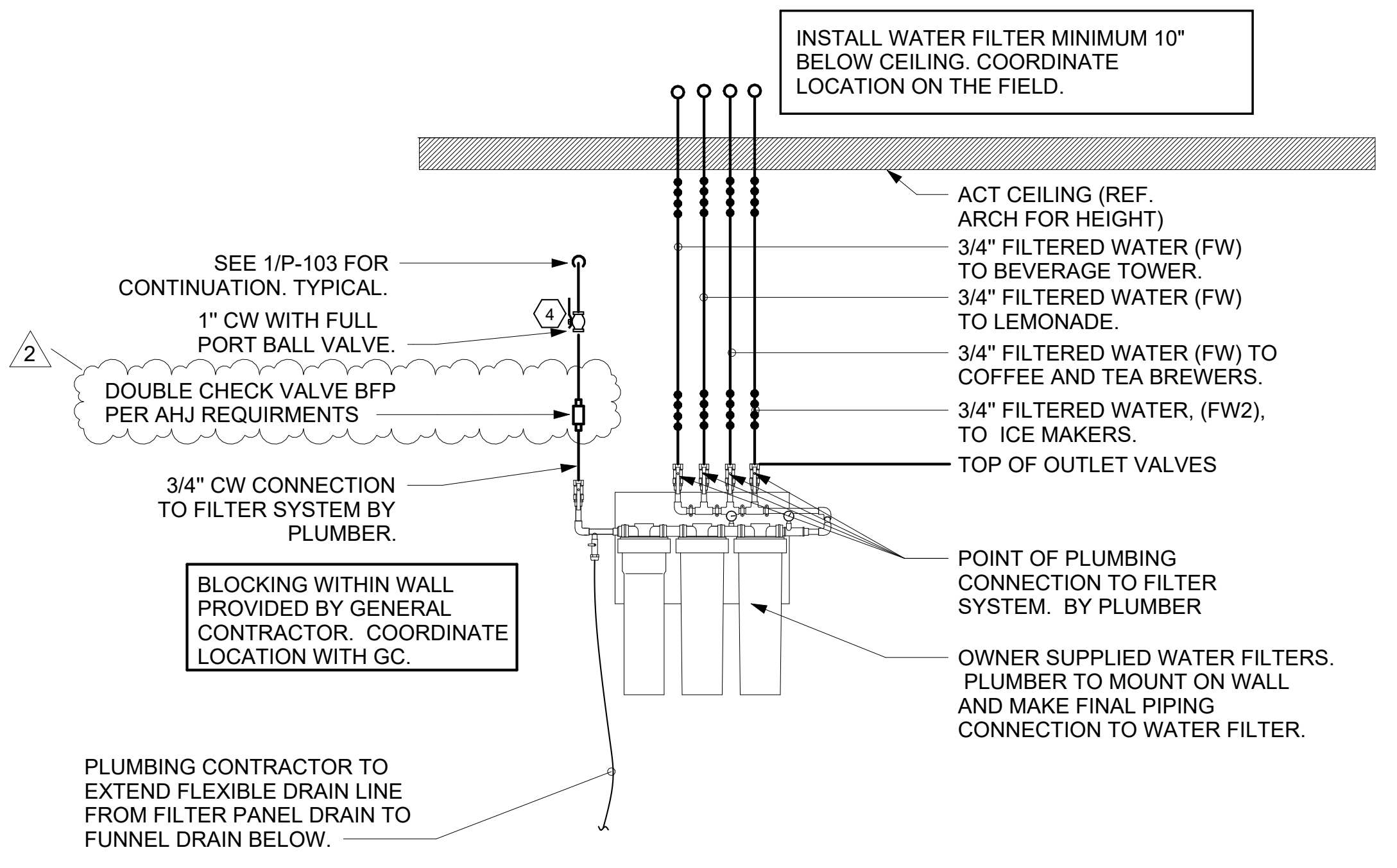
4 STANDOFF DETAIL NOT TO SCALE



5 GAS CONNECTION AT APPLIANCE NOT TO SCALE



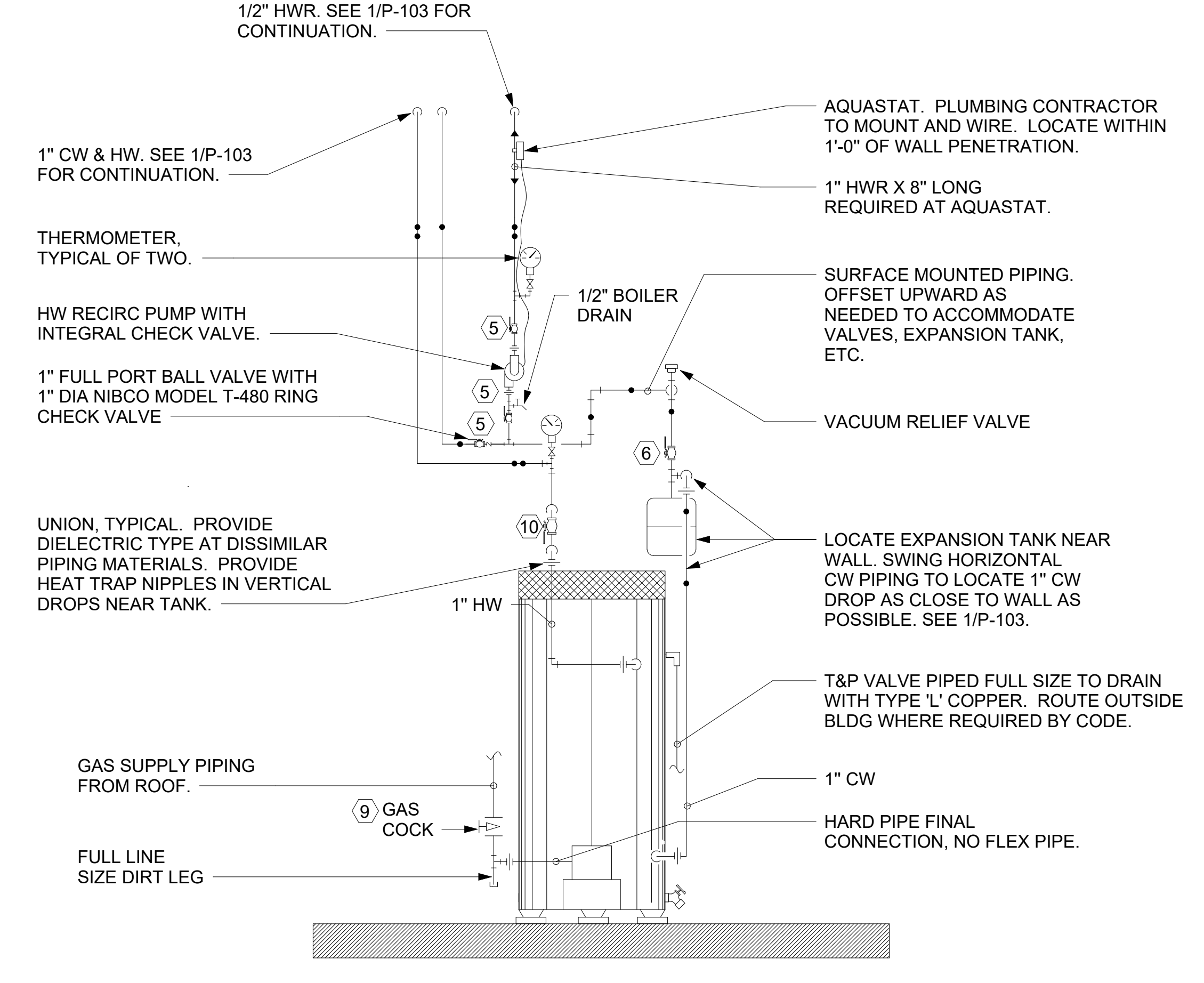
6 WEATHERPROOFING AT CANOPY PENETRATION NOT TO SCALE



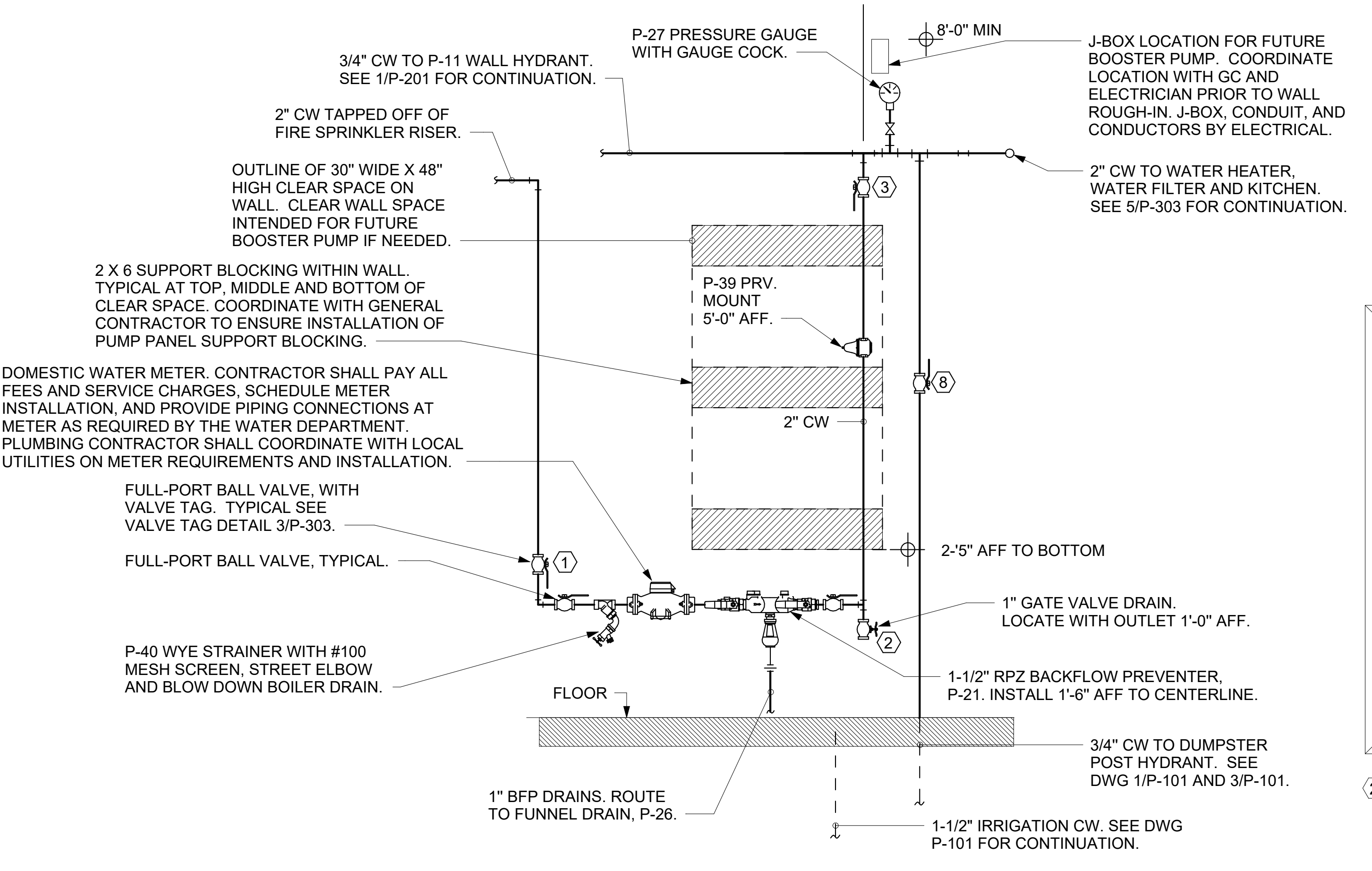
7 PIPING AT WATER FILTER NOT TO SCALE

- NOTES TO WATER HEATER INSTALLER:**
- POSITION VALVES AND TRIM 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.
 - VENT HEATER UP THRU ROOF AND PROVIDE FRESH AIR PIPING PER MANUFACTURER'S RECOMMENDATIONS.

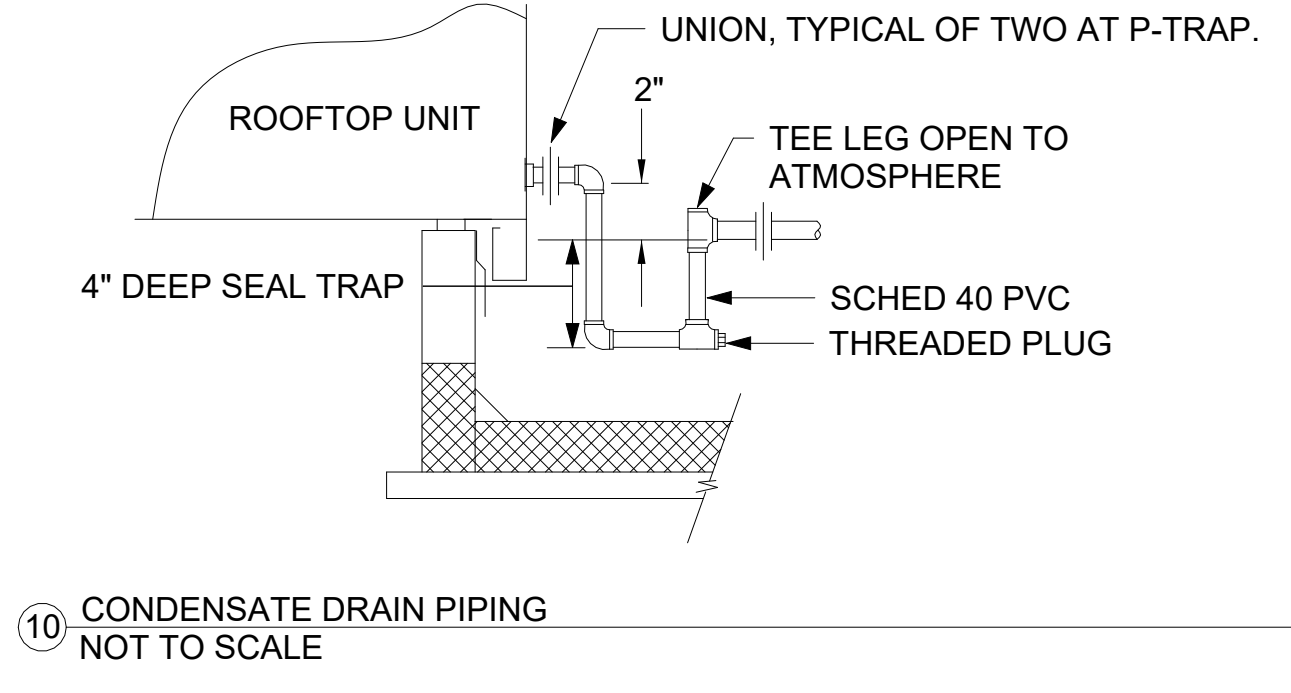
- NOTE OF SPECIAL IMPORTANCE:**
- LOCATIONS OF 2" CW RISER AND CLEAR SPACE ARE DIMENSIONED BECAUSE THEY ARE CRITICAL FOR THE FUTURE PUMP PANEL INSTALLATION.
 - GENERAL CONTRACTOR SHALL ENSURE OTHER TRADES SHALL NOT INSTALL ANY OTHER BUILDING COMPONENT WITHIN CLEAR SPACE OR WITHIN 10" OF EDGES.



8 PIPING AT WATER HEATER NOT TO SCALE



9 PIPING AT WATER SERVICE ENTRANCE IN MECHANICAL ROOM NOT TO SCALE

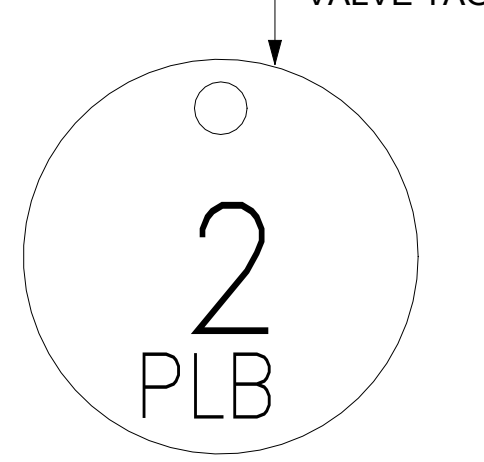


10 CONDENSATE DRAIN PIPING NOT TO SCALE

VALVE TAG SCHEDULE	
VALVE	VALVE POSITION
1 MAIN WATER SHUT-OFF	NORMALLY OPEN
2 MAIN DRAIN	NORMALLY CLOSED
3 ACCESSORY SHUT-OFF	NORMALLY OPEN
4 WATER FILTER INLET	NORMALLY OPEN
5 RECIRC PUMP ISOLATION VALVE	NORMALLY OPEN
6 WATER HEATER INLET	NORMALLY OPEN
7 RESTROOM & KITCHEN COLD WATER	NORMALLY OPEN
8 POST HYDRANT COLD WATER	NORMALLY OPEN
9 GAS TO WATER HEATER	NORMALLY OPEN
10 WATER HEATER OUTLET	NORMALLY OPEN

NOTE: HANDLE IN-LINE WITH PIPING = VALVE OPEN

LAMINATE VALVE TAG LEGEND AND MOUNT PERMANENTLY WHERE SHOWN ON WATER HEATER DETAIL IN AN ALUMINUM FRAME EQUAL TO SETON #68624.



2 VALVE TAG SYMBOL AS SHOWN ON DETAIL 8/P-502. PROVIDE 1-1/2" ROUND BRASS VALVE TAG WITH 1/2" HIGH BLACK FILLED LETTERING. EACH TAG SHALL INDICATE VALVE NUMBER AND WILL ALSO HAVE "PLB" STAMPED ON THE TAG IN 1/4" HIGH BLACK FILLED LETTERING EQUAL TO SETON #M4506. HANG WITH BRASS JACK CHAIN ON VALVE HANDLE.

11 VALVE TAGS AND LEGEND NOT TO SCALE



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30349-2998

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02/15/24

CHICK-FIL-A
RELO HULL STREET FSU
12280 BRIDGEWOOD CROSSING
Midlothian, VA 23112

FSR#05416
BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.02

REVISION SCHEDULE
NO. DATE DESCRIPTION

2 02/07/2024 BUILDING

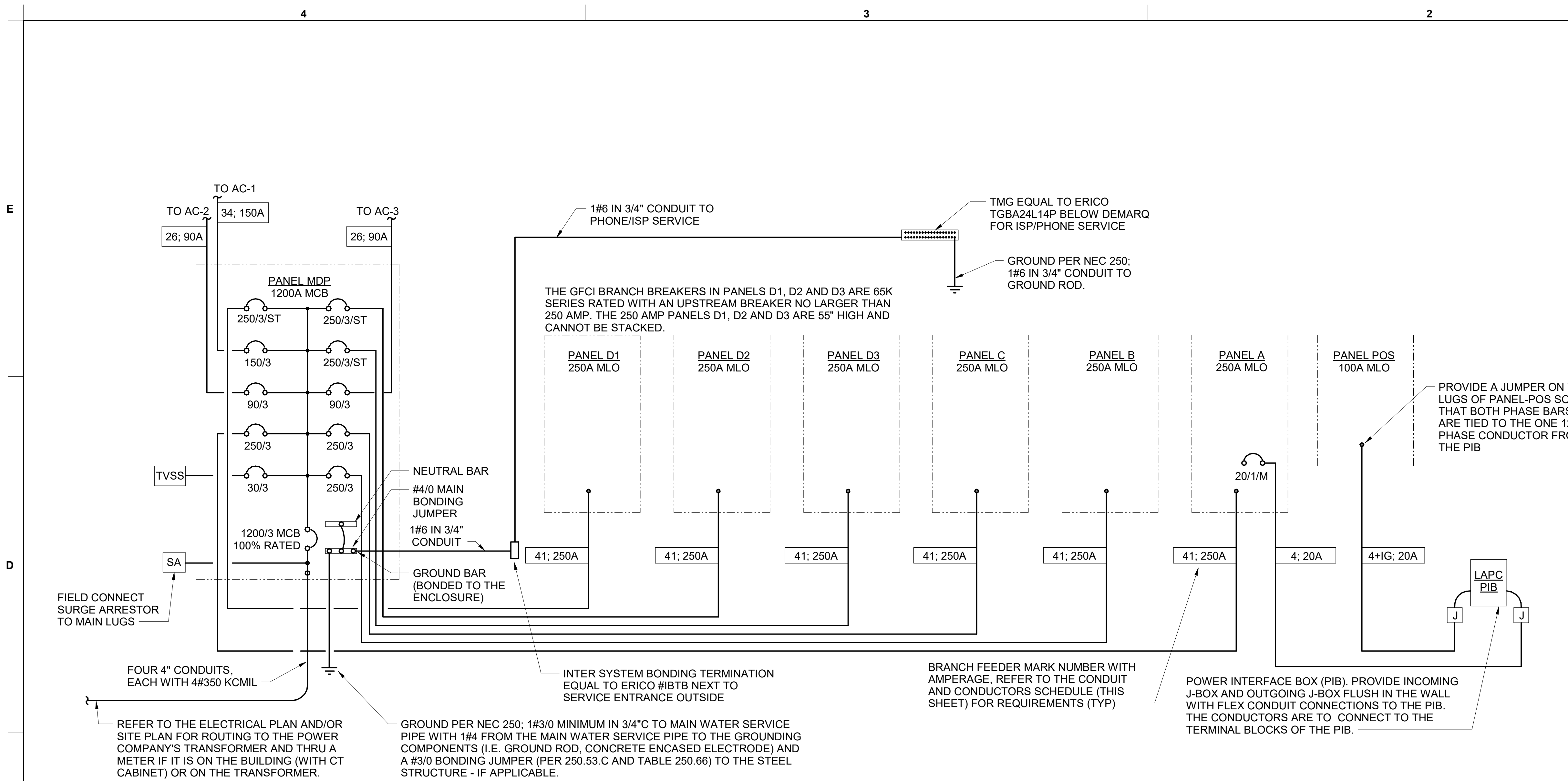
CONSULTANT PROJECT # 23141.EH.S
DATE 09/18/23

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PLUMBING DETAILS

SHEET NUMBER
P-502

2/15/2024 5:18:01 PM Autodesk Docs://VA_05416_RELO Hull Street FSU_PLB.plt 40-LE-05416-P-502-PLUMBING DETAILS



(B1) CONDUIT AND CONDUCTORS SCHEDULE

Mark No.	OCP Device (Amp/Poles)	Conductors Total Amps	Phase & Neutral Qty	Conductors		Min Eq Grd Qty/Set	Raceway Size (Nominal Inches)	Raceway Size (Nominal Inches)						
				Size	Type			No. Sets	Phase EMT	Neutral & Equip Grd IMC	With IG PVC			
1	20/1	20	-	2	12 THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75
2	20/2	20	-	3	12 THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75
3	20/3	20	-	4	12 THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75
4	25/1	30	-	2	10 THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
5	25/2	30	-	3	10 THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
6	25/3	30	-	4	10 THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
7	30/1	30	-	2	10 THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
8	30/2	30	-	3	10 THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
9	30/3	30	-	4	10 THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
10	40/1	40	-	2	8 THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
11	40/2	40	-	3	8 THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
12	40/3	40	-	4	8 THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	1.00
13	45/3	55	-	4	6 THHN	1	10	One	1.00	1.00	1.00	1.00	1.00	1.00
14	50/1	55	-	2	6 THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
15	50/2	55	-	3	6 THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	1.00
16	50/3	55	-	4	6 THHN	1	10	One	1.00	1.00	1.00	1.00	1.00	1.00
17	60/1	70	-	2	4 THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.25
18	60/2	70	-	3	4 THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25
19	60/3	70	-	4	4 THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25
20	70/1	70	-	2	4 THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.25
21	70/2	70	-	3	4 THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25
22	70/3	70	-	4	4 THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25
23	80/2	85	-	3	3 THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25
24	80/3	85	-	4	3 THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.50
25	90/2	95	-	3	2 THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.50
26	90/3	95	-	4	2 THW	1	8	One	1.50	1.25	1.50	1.50	2.00	2.00
27	100/2	110	-	3	1 THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00
28	100/3	110	-	4	1 THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00
29	110/2	-	150	3	1/0 THW	1	6	One	1.25	1.25	1.25	1.25	1.50	1.50
30	110/3	-	150	4	1/0 THW	1	6	One	1.50	1.25	1.50	1.50	1.50	1.50
31	125/2	-	150	3	1/0 THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00
32	125/3	-	150	4	1/0 THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00
33	150/2	-	150	3	1/0 THW	1	6	One	2.00	1.50	2.00	2.00	2.00	2.00
34	150/3	-	150	4	1/0 THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00
35	175/2	-	175	3	2/0 THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50
36	175/3	-	175	4	2/0 THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50
37	200/2	-	200	3	3/0 THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50
38	200/3	-	200	4	3/0 THW	1	6	One	2.50	2.50	2.50	2.50	2.50	2.50
39	225/2	-	230	3	4/0 THW	1	4	One	2.50	2.00	2.50	2.50	2.50	2.50
40	225/3	-	230	4	4/0 THW	1	4	One	2.50	2.50	2.50	2.50	3.00	3.00
41	250/3	-	255	4	250 THW	1	4	One	2.50	3.00	3.00	3.00	3.00	3.00
42A	300/3	-	285	4	300 THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3.00
42B	300/3	-	310	4	350 THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3.00
43A	350/3	-	335	4	400 THW	1	4	One	3.00	3.50	3.50	3.50	3.50	3.50
43B	350/3	-	380	4	500 THW	1	4	One	3.50	3.50	3.50	3.50	3.50	3.50
44A	400/3	-	380	4	500 THW	1	3	One	3.50	3.50	3.50	3.50	3.50	3.50
44B	400/3	-	400	4	3/0 THW	1	3	Two	2.50	2.50	2.50	2.50	2.50	2.50
45A	600/3	-	570	4	300 THW	1	1	Two	3.00	3.00	3.00	3.00	3.00	3.00
45B	600/3	-	620	4	350 THW	1	1	Two	3.00	3.00	3.00	3.00	3.00	3.00
46A	800/3	-	760	4	500 THW	1	1/0	Two	3.50	3.50	3.50	3.50	3.50	3.50
46B	800/3	-	820	4	600 THW	1	1/0	Two	4.00	4.00	4.00	4.00	4.00	4.00
47	1000/3	-	1005	4	400 THW	1	2/0	Three	3.50	3.50	3.50	3.50	3.50	3.50
48	1200/3	-	1240	4	350 THW	1	3/0	Four	3.50	3.50	3.50	3.50	3.50	4.00
49	1600/3	-	1675	4	400 THW	1	4/0	Five	4.00	4.00	4.00	4.00	4.00	4.00

SINGLE-LINE DIAGRAM NOTES

- VERIFY SERVICE LOCATIONS AND CONFORM TO THE REQUIREMENTS OF THE POWER COMPANY AND/OR DEVELOPER. POWER COMPANY AND/OR DEVELOPER SHALL BE CONTACTED PRIOR TO BEGINNING CONSTRUCTION TO ARRANGE AND VERIFY FOR THE INSTALLATION OF THE POWER COMPANY SERVICE, METER, AND OTHER ITEMS.
- GROUND ALL EQUIPMENT AND SERVICES IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LOCAL APPLICABLE CODES, AND ALSO AS INDICATED ON DRAWINGS.
- MAKE NECESSARY INSPECTIONS OF EXISTING SITE AND SERVICE LOCATIONS AS REQUIRED FOR THIS WORK AND MAKE ALLOWANCE FOR EXISTING CONDITIONS BEFORE SUBMITTING BID. VERIFY WORK REQUIRED WITH POWER COMPANY AND TELEPHONE COMPANY.
- CUT AND PATCH THE CONSTRUCTION WORK AS REQUIRED FOR PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL MATCH THE SURROUNDING WORK TO THE SATISFACTION OF THE ARCHITECT. ALL CONDUIT SHALL BE INSTALLED CONCEALED UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT. COORDINATE SAW CUTTING WITH LANDLORD'S OR OWNER'S REPRESENTATIVE.
- WIRE AND CABLE:
 - CONDUCTORS SHALL BE COPPER, #12 AWG, MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE.
 - CONDUCTOR #10 AWG AND SMALLER SHALL BE SOLID AND #8 AWG AND LARGER SHALL BE STRANDED. INSULATION SHALL BE 600 VOLT, THHN/THWN.
- PROVIDE ENGRAVED LAMINATED PHENOLIC BLOCK-ON-WHITE (UNLESS NOTED OTHERWISE) NAMEPLATES SECURED TO EQUIPMENT WITH ADHESIVE AND SCREWS FOR PANELBOARDS, RELAY CABINETS, TRANSFORMERS, DISTRIBUTION BOARDS, AND MAIN PANELBOARD - IDENTIFYING EQUIPMENT DESIGNATION (CORRESPONDING WITH DESIGNATION USED ON DRAWINGS) AND EQUIPMENT VOLTAGE. LETTERING SHALL BE 1/4" HIGH. PROVIDE LABELS FOR CIRCUIT BREAKERS, FUSIBLE SWITCHES AND STARTERS IN PANELBOARDS AND DISTRIBUTION BOARDS FOR EACH DEVICE. IDENTIFYING EQUIPMENT CONTROLLED. LETTERING SHALL BE 1/8" HIGH.
- ALL DEVICES SHALL HAVE AN INTERRUPTING CAPACITY NOT LESS THAN THE POWER COMPANY AVAILABLE FAULT CURRENT, OR AS INDICATED ON THE DRAWINGS.
- 120/208 VOLT BRANCH CIRCUIT PANELBOARD BREAKERS SHALL HAVE A MINIMUM U.L. SERIES RATING OF 65 KAIC WITH UP-STREAM FEEDER BREAKERS AS NOTED.
- AVAILABLE SPACE FOR MAIN PANELBOARD IS LIMITED. PANELBOARD MUST FIT IN ALLOCATED SPACE. COORDINATE WITH CONSTRUCTION AS REQUIRED.
- ALL WIRING SHALL BE IN CONDUIT, E.M.T OR RIGID. FLEXIBLE CONDUIT MAY ONLY BE USED FOR FINAL CONNECTIONS AND WITH GREEN EQUIPMENT GROUNDING CONDUCTORS.

SWITCHGEAR AND CONTROL EQUIPMENT NOTES

- PURCHASE PANELBOARDS, SURGE ARRESTOR, AND TVSS FROM AN APPROVED NATIONAL ACCOUNTS VENDOR (SEE SHEET E-902P SECTION C16440, PANELBOARDS) PROVIDING SQUARE-D EQUIPMENT. NO SUBSTITUTIONS ALLOWED.
- PURCHASE CONTROL PANEL 'CFA-T500' FROM SUNCOAST ENVIRONMENTAL, INC. (NO SUBSTITUTIONS ALLOWED). ALL EQUIPMENT IN THE CONTROL PANEL SHALL BE INSTALLED, WIRED AND CONNECTED AT THE FACTORY, INCLUDING AUTOMATIC LIGHTING CONTROL SYSTEM, LIGHTING RELAYS, HVAC STARTERS, POWER SUPPLIES, MISCELLANEOUS RELAYS AND CONTROLS, AND THERMOSTATS.
- CONTRACTOR SHALL PROVIDE PANEL FEEDERS A, B, C, D1, D2, D3, AND POS, BRANCH CIRCUIT CONDUIT AND WIRE, AND INSTALL ALL EQUIPMENT AS REQUIRED.
- ALL BREAKERS AND PANELS SHALL BE SQUARE-D.
- TVSS AND SURGE ARRESTOR UNITS SHALL BE MOUNTED DIRECTLY ADJACENT TO THE SIDE OF THE MAIN DISTRIBUTION PANEL IN NEMA 3R ENCLOSURES. CLOSE NIPPLE THE UNITS TO THE SIDE OF THE PANEL. PROVIDE CONNECTION OF TVSS UNIT TO BREAKER IN PANEL. CONNECT SURGE ARRESTOR TO MAIN INCOMING LUGS OF THE PANEL. CONNECT USING MINIMUM LENGTH OF WIRE WITHOUT SHARP BENDS IN THE WIRE AND SHALL NOT BE LENGTHENED FROM WIRE LENGTH PROVIDED WITH THE TVSS OR SURGE SUPPRESSOR DEVICE.

Notes:
Conductors are rated at 600 volt or below and are to be copper.

NEC Table 310.15(B)(16) - formerly Table 310.16 - is used for the basis of the conductor ampacities, which is not more than three current carrying conductors in a raceway at an ambient temperature of 30 deg C with 60 deg C rated conductors and connectors per 110.14-C-1 for up to 100 amp rated and up to #1 AWG conductors for equipment terminations and 75 deg C rated conductors and termination connectors for larger than 100 amp or above #1 AWG conductors.

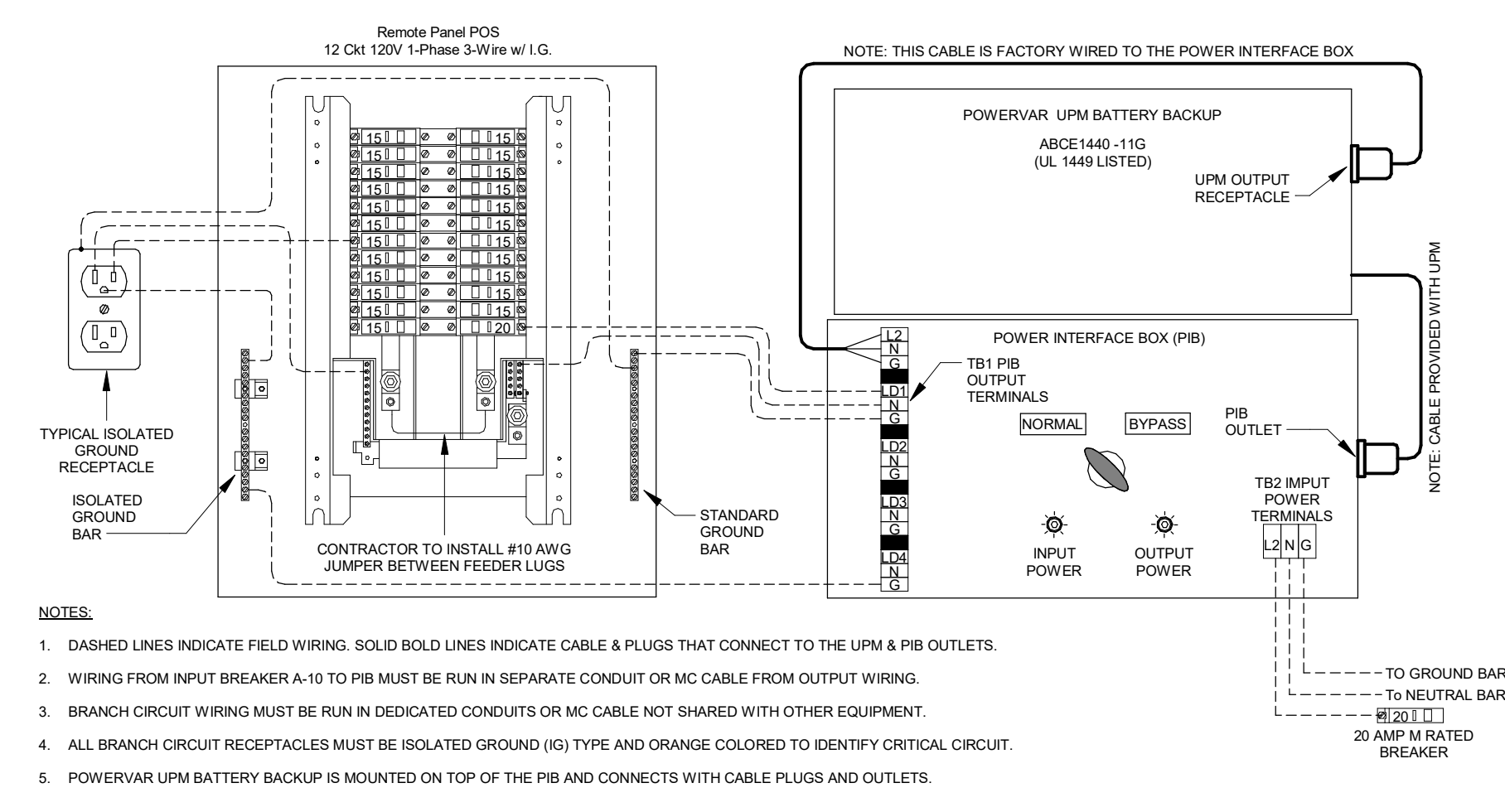
NEC Tables 4, 5, and Appendix C is used for the basis of the conduit sizes, Table C1 for EMT, Table C4 for IMC, Table C8 for Rigid, and Table C10 for PVC (Sch 40).

All Branch Feeders and Branch Circuits shall include a green Equipment Grounding Conductor.

Omit Grounding conductor on Service Entrance Feeders.

Omit Neutral conductor on all Delta primary transformer feeders or single-phase 2 pole loads and 3 phase loads not requiring a neutral.

The above conductors are not calculated for Voltage Drop. Any circuits that exceed 100 feet shall be calculated by the Installer to have less than a three percent voltage drop on feeders and five percent on branch circuits per the NEC.



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02/02/24

CHICK-FIL-A
HULL STREET AT
1280 BRIDGEWOOD CROSSINGS
DRIVE
MIDLOTHIAN, VA 23112

FSR#05416

BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.02

PRINTED FOR
CONSTRUCTION

REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 2314.EH.S
DATE 09/15/2023

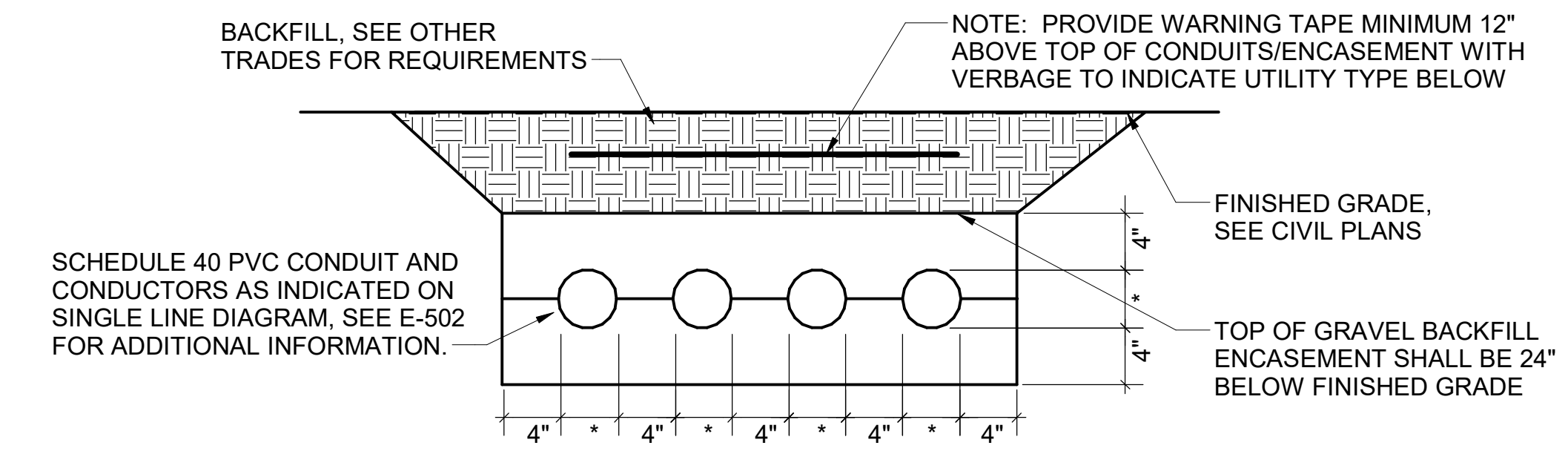
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SINGLE LINE DIAGRAM AND NOTES

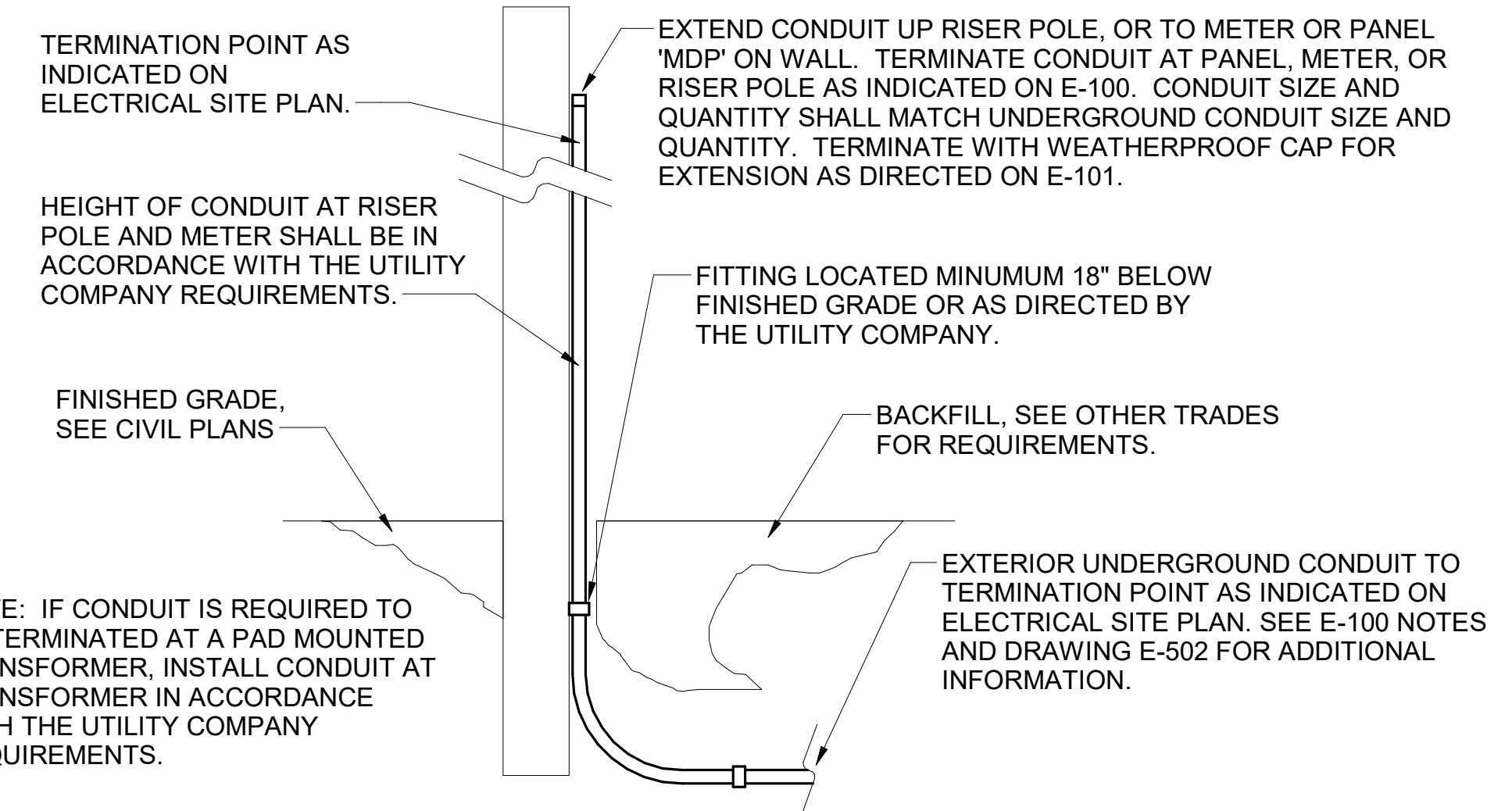
SHEET NUMBER

E-502



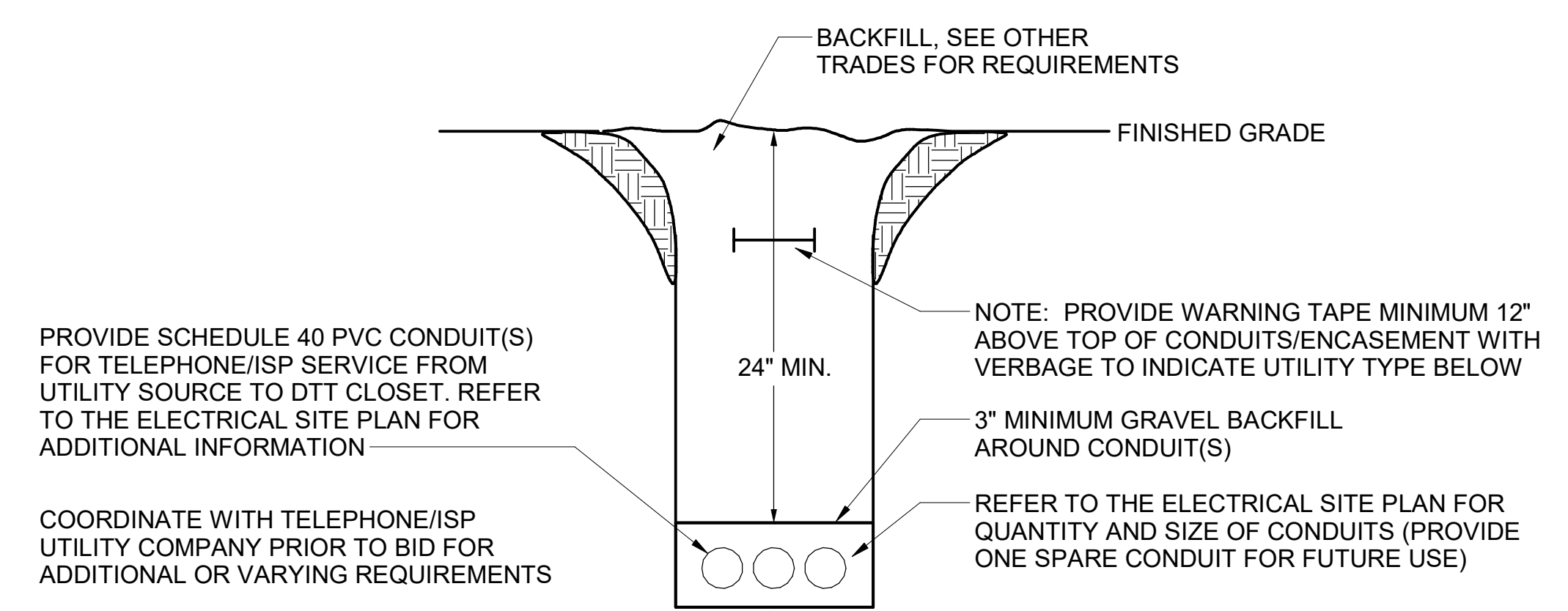
NOTE: WHERE THE SECONDARY CONDUITS FROM THE UTILITY TRANSFORMER TO THE CURRENT TRANSFORMER CABINET (OR MAIN PANELBOARD) ARE FURNISHED BY THE UTILITY COMPANY (FOR INSTALLATION BY THE CONTRACTOR) OR ARE FURNISHED AND INSTALLED BY THE UTILITY COMPANY, THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH THE UTILITY COMPANY PRIOR TO BID. REFER TO THE ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.

E1 ELECTRICAL SERVICE LATERAL CONDUIT DETAIL
N.T.S.



NOTE: IF CONDUIT IS REQUIRED TO BE TERMINATED AT A PAD MOUNTED TRANSFORMER, INSTALL CONDUIT AT TRANSFORMER IN ACCORDANCE WITH THE UTILITY COMPANY REQUIREMENTS.

C1 EXTERIOR CONDUIT TURN UP DETAIL
N.T.S.

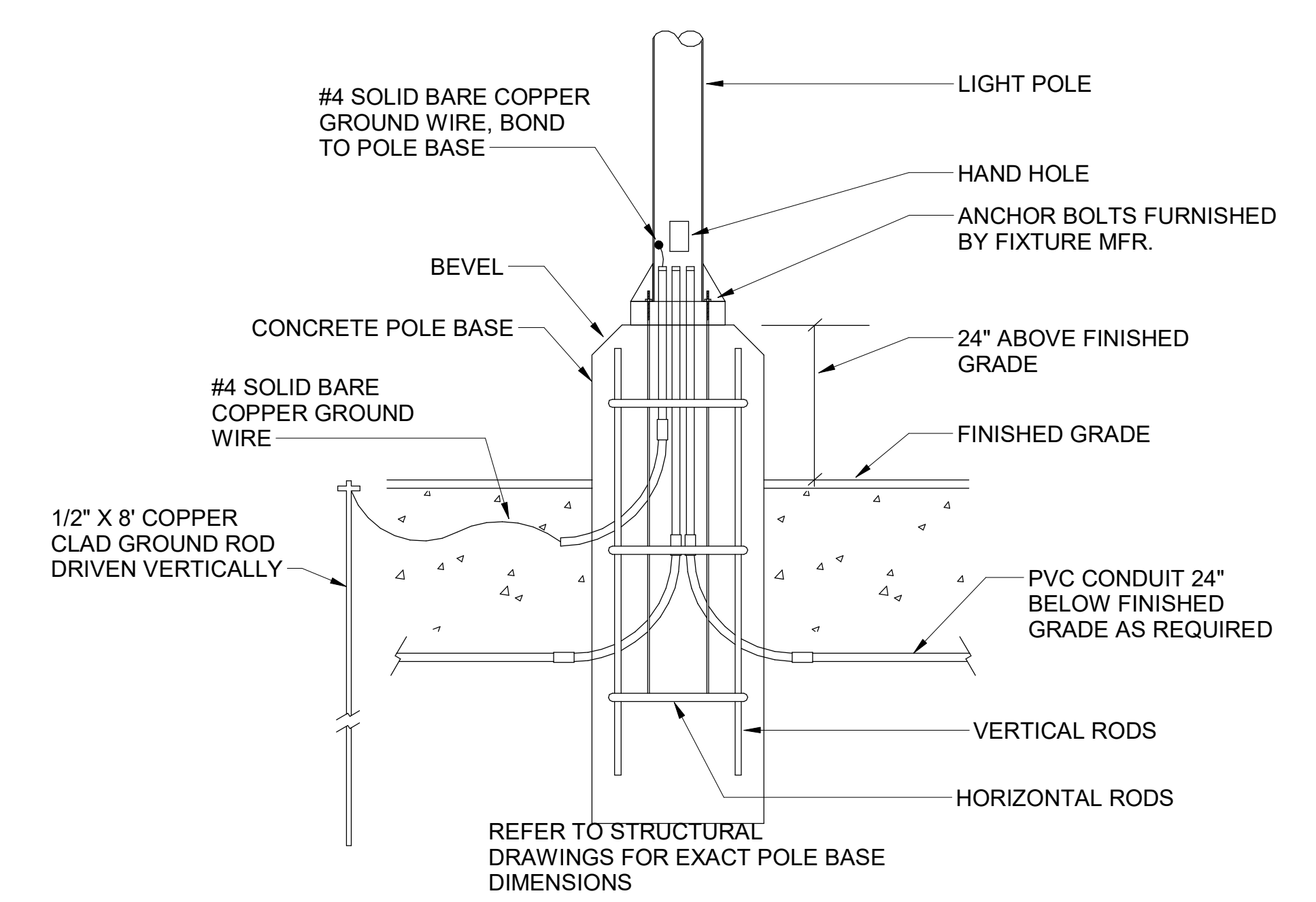


PROVIDE SCHEDULE 40 PVC CONDUIT(S) FOR TELEPHONE/ISP SERVICE FROM UTILITY SOURCE TO DTT CLOSET. REFER TO THE ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.

COORDINATE WITH TELEPHONE/ISP UTILITY COMPANY PRIOR TO BID FOR ADDITIONAL OR VARYING REQUIREMENTS

REFER TO THE ELECTRICAL SITE PLAN FOR QUANTITY AND SIZE OF CONDUITS (PROVIDE ONE SPARE CONDUIT FOR FUTURE USE)

B1 TELEPHONE/ISP SERVICE CONDUIT DETAIL
N.T.S.

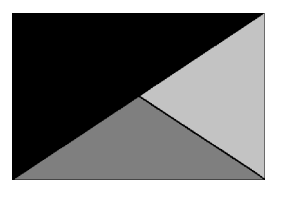


REFER TO STRUCTURAL DRAWINGS FOR EXACT POLE BASE DIMENSIONS

A1 TYPICAL CONCRETE BASE POLE DETAIL
N.T.S.



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02/02/24

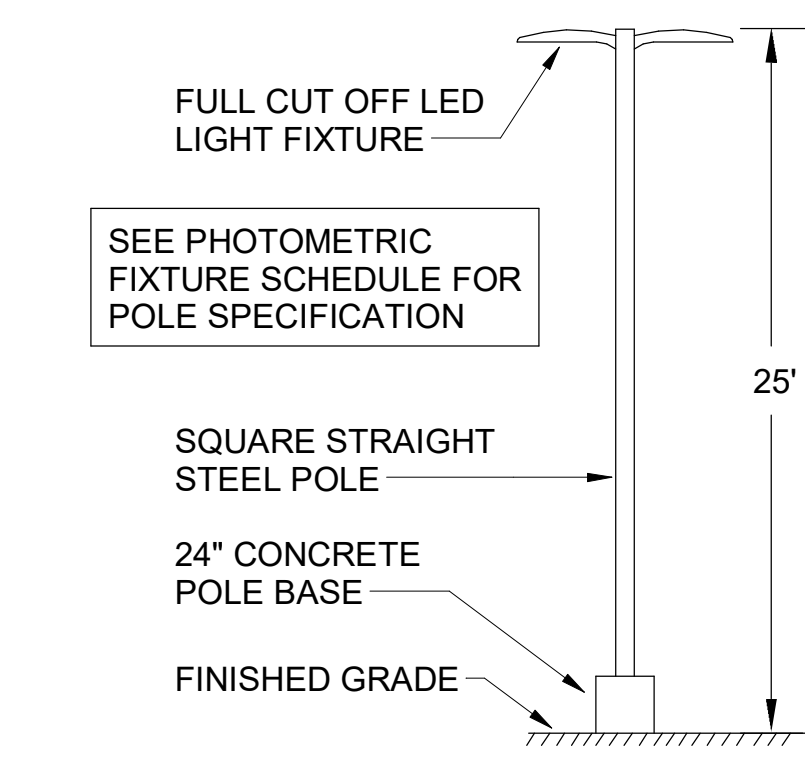
CHICK-FIL-A
HULL STREET AT
12280 BRIDGEWOOD CROSSINGS
DRIVE
MIDLOTHIAN, VA 23112

FSR#05416

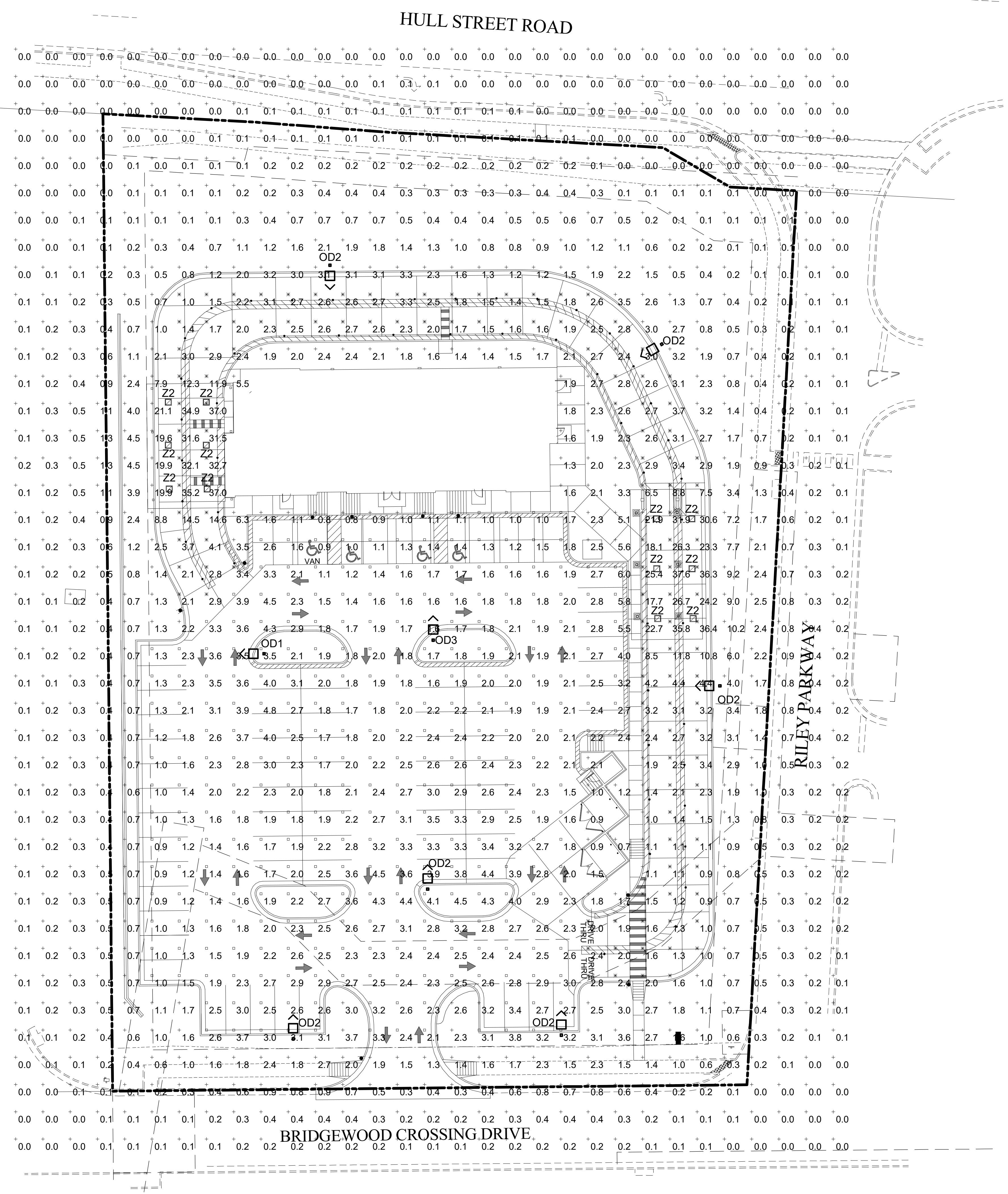
BUILDING TYPE / SIZE: P14 LE
RELEASE:
PRINTED FOR:
CONSTRUCTION
REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 23141.EH.S
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ELECTRICAL SITE DETAILS
SHEET NUMBER



E1 AREA LIGHTING POLE DETAIL
N.T.S.



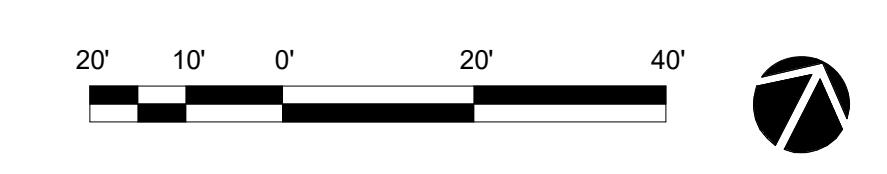
Symbol	Label	Quantity	Manufacturer	Catalog Number	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
⬆	OD1	1	EATON - LUMARK (FORMER COOPER LIGHTING)	PRV-C60-D-UNV-T3-BZ	2	10029	0.95	153
⬆	OD2	6	EATON - LUMARK (FORMER COOPER LIGHTING)	PRV-C60-D-UNV-T4-BZ	2	9993	0.95	153
⬆	OD3	1	EATON - LUMARK (FORMER COOPER LIGHTING)	PRV-C60-D-UNV-T5-BZ	2	10678	0.95	153
⊠	Z2	12	LSI INDUSTRIES, INC	CRUS-SC-LED-LW-30	1	9219	0.95	74

OD POLES SHALL BE 2" SQUARE STRAIGHT STEEL POLES BY KW INDUSTRIES: SSP25-4-0-7-BRZ-DM10/2180-BC. MOUNT POLES ON A 2' CONCRETE POLE BASE. POLES AND LIGHTING FIXTURES TO HAVE A DARK BRONZE FINISH.

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone	+	1.9 fc	37.6 fc	0.0 fc	N/A	N/A
Drive Thru	x	7.9 fc	37.6 fc	0.9 fc	41.8:1	8.8:1
Parking Lot Summary	□	2.4 fc	6.0 fc	0.9 fc	6.7:1	2.7:1

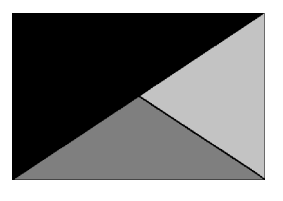
AT THE TIME OF FINAL BUILDING OCCUPANCY INSPECTION, PLANNING WILL VERIFY THAT ALL BUILDING-MOUNTED AND POLE-MOUNTED EXTERIOR LIGHTS SHALL BE OF A DIRECTIONAL TYPE CAPABLE OF SHIELDING THE LIGHT SOURCE FROM DIRECT VIEW FROM AN ADJACENT A,R,R-TH,MH OR R-MF PROPERTY, OR ROAD. 19.1-205.B.

A1 PHOTOMETRIC PLAN
1" = 20'-0"



Chick-fil-A

Chick-fil-A
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Atlanta, Georgia
30349-2998



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Nashville, Tennessee 37214
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03/26/24

CHICK-FIL-A
HULL STREET AT
12280 BRIDGEWOOD CROSSINGS
DRIVE
MIDLOTHIAN, VA 23112

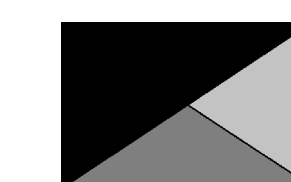
FSR#05416

BUILDING TYPE / SIZE: P14 LE
RELEASE:
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REVISION SCHEDULE
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SHEET
SITE PHOTOMETRIC PLAN
SHEET NUMBER



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02/02/24

CHICK-FIL-A
HULL STREET AT
DRIVE
1280 BRIDGEWOOD CROSSINGS
MIDLOTHIAN, VA 23112

FSR#05416

BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.02
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SHEET
CANOPY CONTROL PANEL WIRING DIAGRAM
SHEET NUMBER

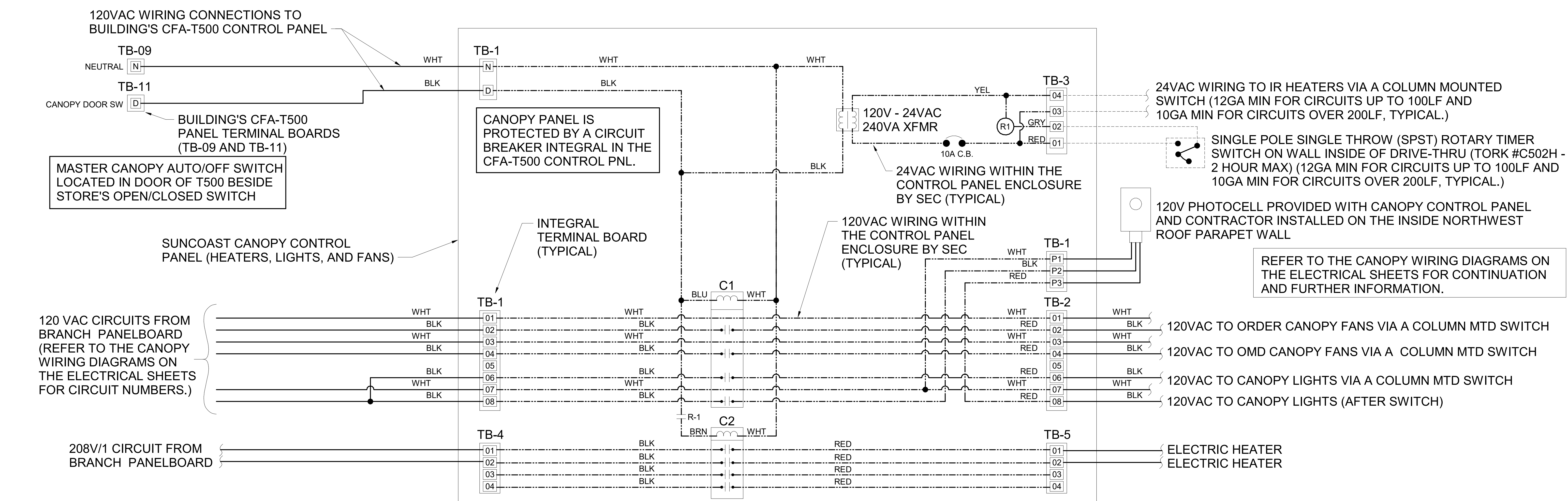
E-305

CIRCULATING FAN SCHEDULE					
MARK	CFM	RPM	HP	MODEL	MANUFACTURER
CF	5,750	1,625	1/8	U18TE-HD	TPI
REMARKS	1. ALUMINUM PADDLE WITH STEEL HUB/SPIDER PROPELLER. 2. 360° ROTATING HEAD HORIZONTALLY AND VERTICALLY. 3. OSHA COMPLIANT DOUBLE LOCKING, COATED STEEL WIRE GUARD. 4. 3-SPEED, TOTALLY ENCLOSED, PERMANENTLY LUBRICATED BALL BEARING MOTOR. 5. FACTORY PRE-WIRED POWER CORD. 6. PROVIDE FACTORY WALL MOUNTING BRACKET. SEE FAN MOUNTING DETAIL ON CANOPY SHOP DRAWINGS FOR TYPICAL INSTALLATION INSTRUCTIONS. 7. PROVIDE ENGRAVED PLASTIC LABEL AT EACH UNIT WITH UNIT DESIGNATION IN 1" HIGH WHITE LETTERS ON A BLACK BACKGROUND. MOUNT TO UNDERSIDE OF CANOPY OR EXISTING OVERHANG, FACING DOWNWARD, 12" LATERALLY FROM THE FAN LOCATION. 8. REMOVE PULL CHAIN EXTENSION AT ON/OFF SWITCH IN THE FIELD. 9. FACTORY CERTIFIED FOR OUTDOOR INSTALLATION.				
TPI FAN PACKAGE - THE CONTRACTOR IS REQUIRED TO PURCHASE THE FAN PACKAGE DIRECTLY FROM TOM BARROW COMPANY. CONTACT MR. SCOTT GEORGE AT 404-351-1010 FOR PRICING AND AVAILABILITY. FANS NOT PURCHASED THRU TOM BARROW COMPANY WILL NOT BE ACCEPTED.					

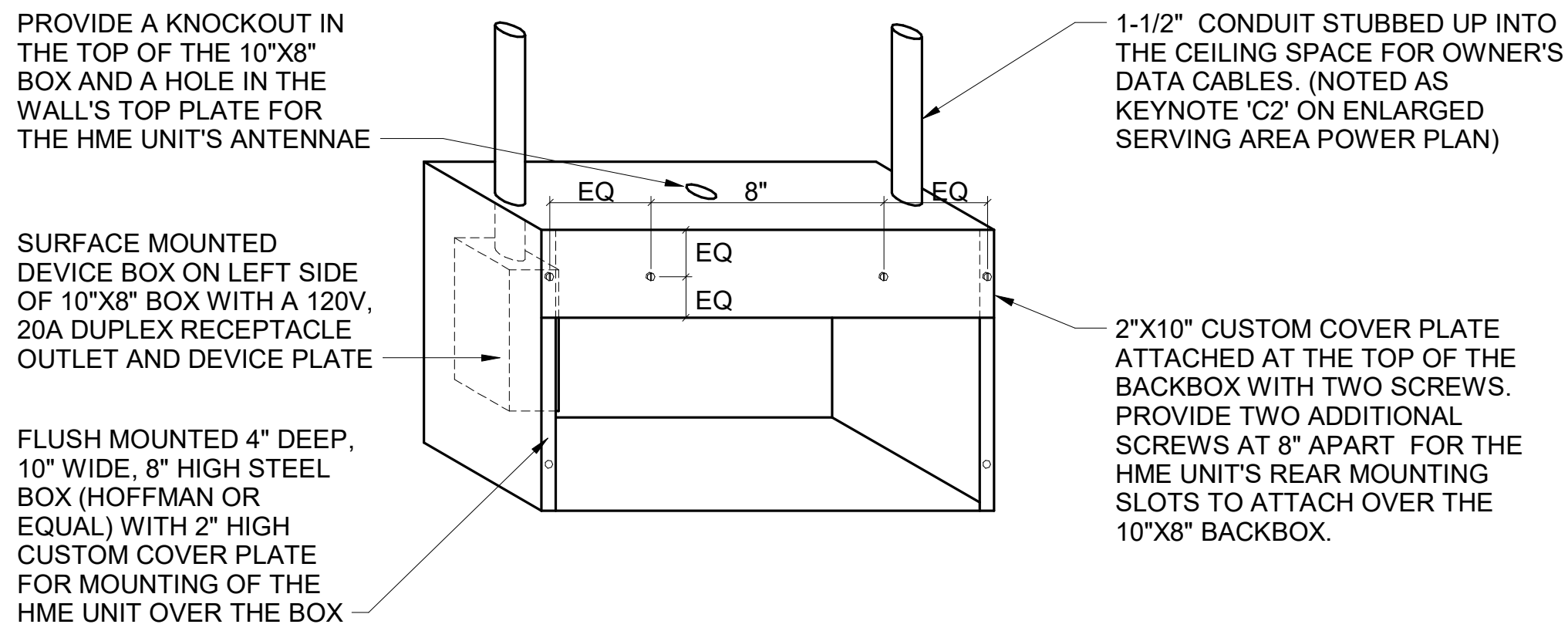
SEQUENCE OF OPERATION	
STORE SWITCH IN "STORE OPEN" POSITION	STORE SWITCH IN "STORE CLOSED" POSITION
A. INFRARED HEATERS ARE ENABLED.	A. INFRARED HEATERS ARE DISABLED.
B. COOLING FANS ARE ENABLED.	B. COOLING FANS ARE DISABLED.
C. LIGHTS ARE ENABLED.	C. LIGHTS ARE DISABLED.
D. MASTER AUTO/OFF SWITCH FOR IR HEATERS AND COOLING FANS. PROVIDE SINGLE POINT ON/OFF CONTROL.	
NOTES	
1. CONTRACTOR SHALL PURCHASE CONTROL PANEL DIRECT FROM SUNCOAST ENVIRONMENTAL CONTROLS (727-544-6679).	
2. COORDINATE WITH GC TO ESTABLISH LOCATION TO MOUNT PANEL IN A CONDITIONED SPACE INSIDE THE BUILDING. SUGGESTED LOCATION IS SURFACE MOUNTED DIRECTLY ABOVE THE LOCATION OF THE CFA-T500 CONTROL PANEL.	
3. THE SUNCOAST ENVIRONMENTAL CONTROLS (SEC) IS TO BE SURFACE MOUNTED, UNLESS OTHERWISE REQUESTED TO SUNCOAST.	
4. PROVIDE LAMINATED LEGEND SHOWING NAMED LOCATIONS OF FANS AND IR HEATERS. MOUNT LEGEND AT PANEL.	

LEGEND	
SEC	SUNCOAST ENVIRONMENTAL CONTROLS (SUPPLIER OF CONTROL PANELS)
-----	LOW VOLTAGE BY CONTRACTOR
-----	LOW VOLTAGE WIRING BY SUNCOAST
-----	120 VOLT BY CONTRACTOR
-----	120 VOLT BY SUNCOAST

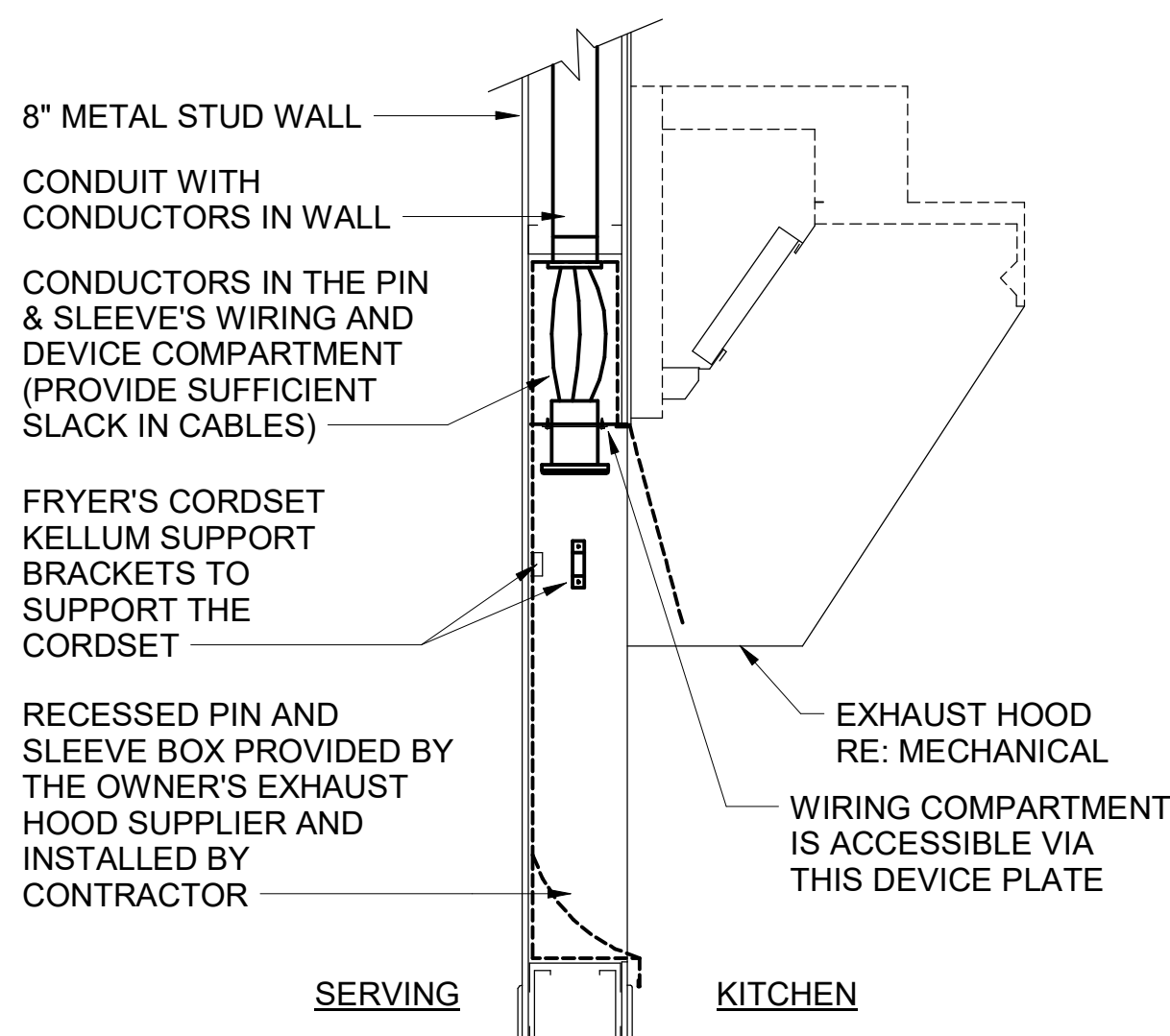
SUNCOAST RELAYS CONTACTORS SHOWN IN DE-ENERGIZED "STORE UNOCCUPIED" CONDITION. RELAYS AND CONTACTORS FACTORY INSTALLED BY SEC IN CONTROL PANEL. RELAYS AND CONTACTORS ENERGIZED VIA "STORE OPEN/CLOSED" SWITCH.



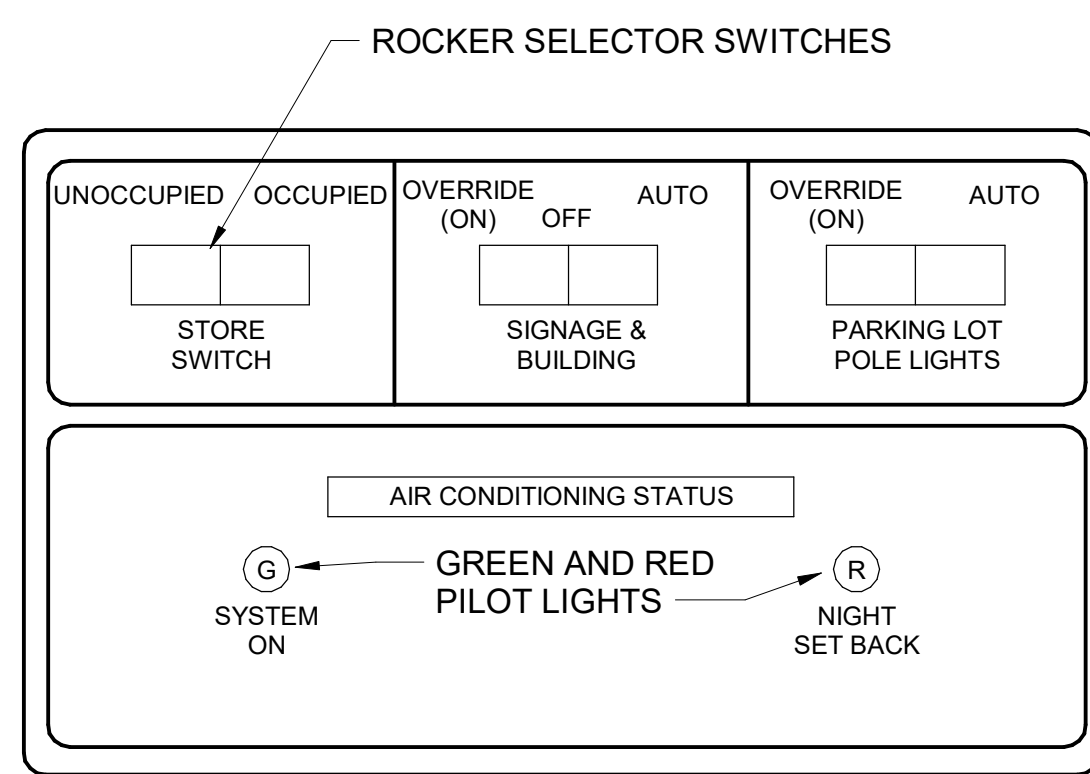
SUNCOAST CANOPY CONTROL PANEL WIRING DIAGRAM
A1 NO SCALE



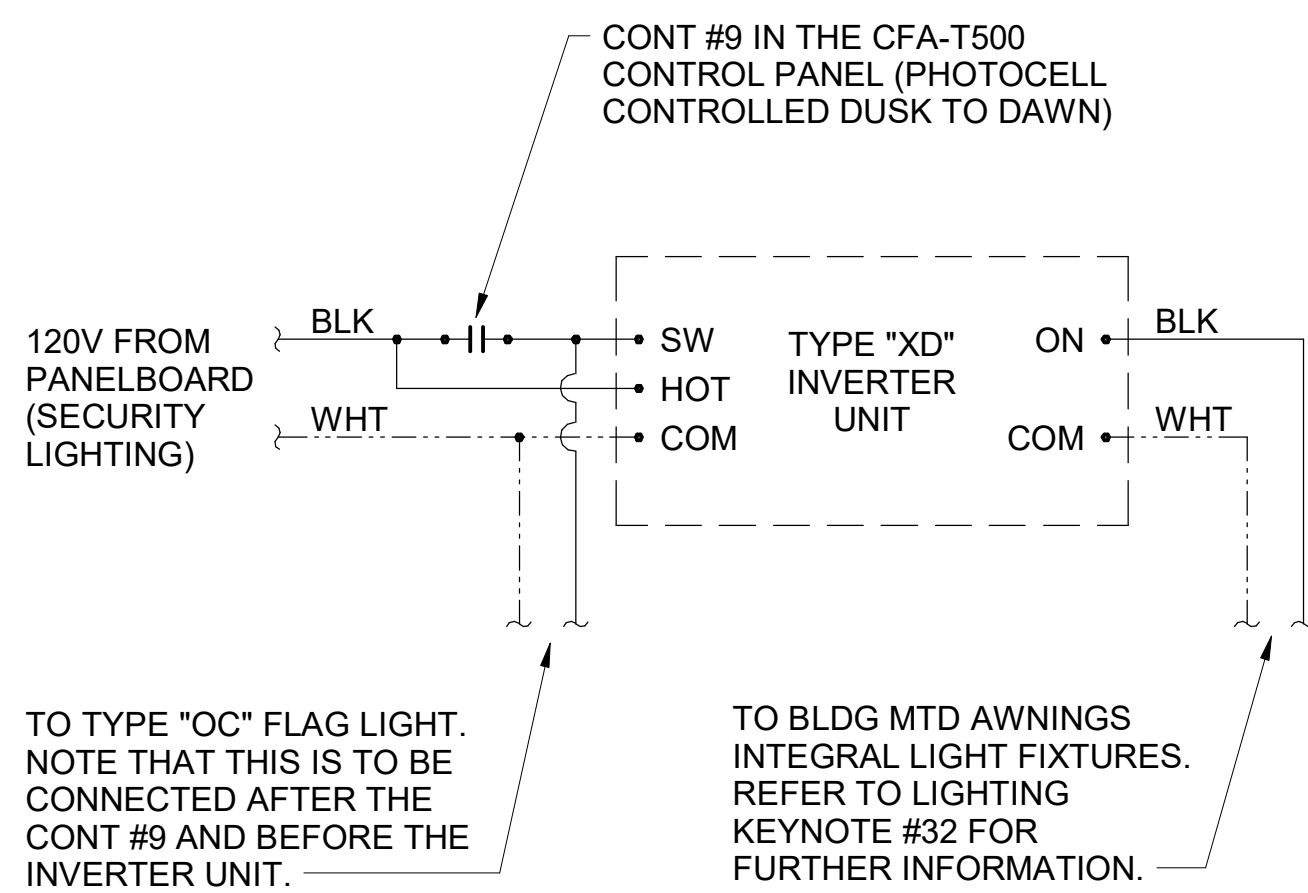
E4 HME UNIT POWER & DATA BOX DETAIL
NO SCALE



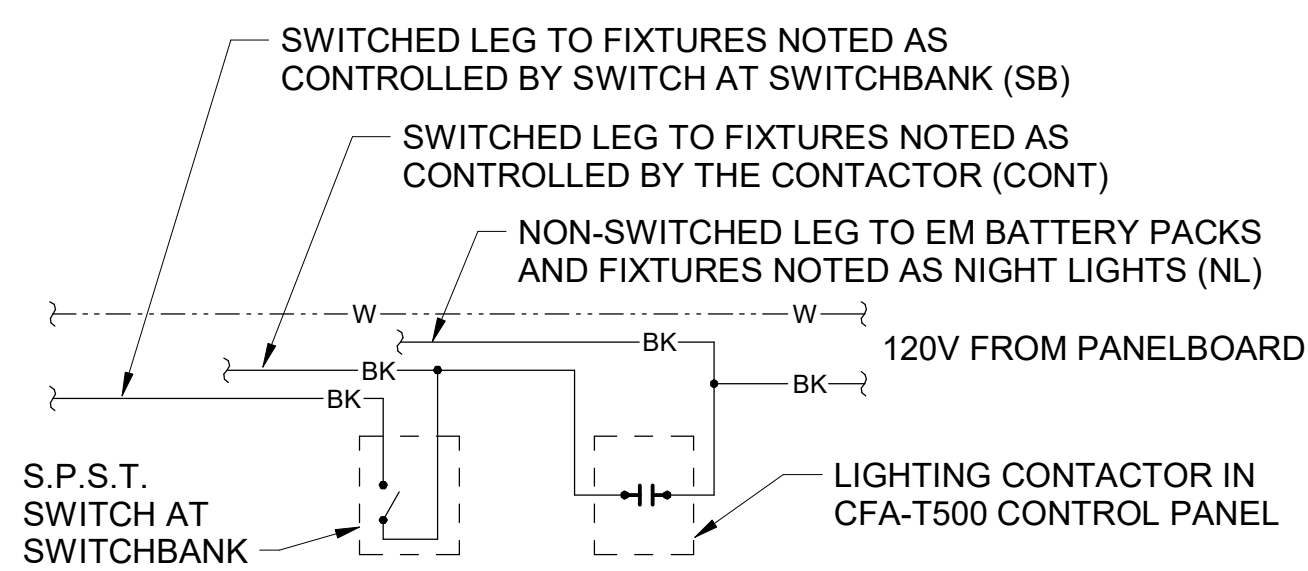
D4 PIN & SLEEVE BOX DETAIL
NO SCALE



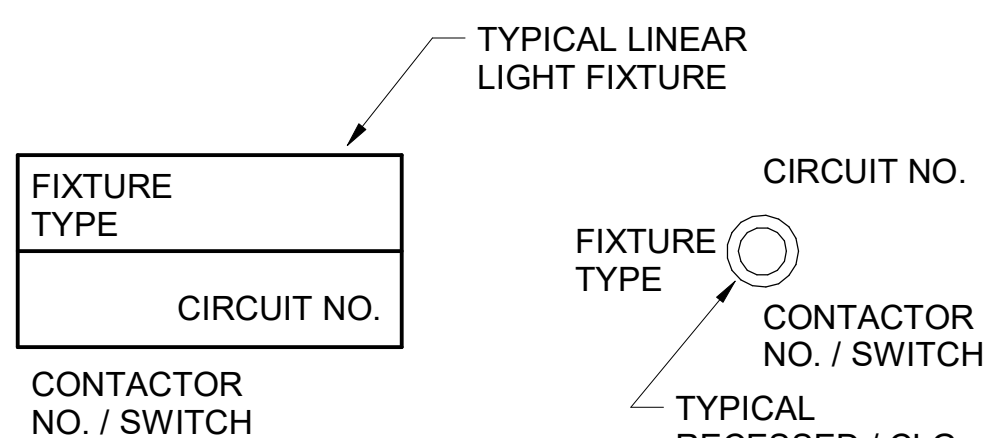
D3 OPEN-CLOSED CONTROL SWITCH
NO SCALE



C4 INVERTER XD WIRING DIAGRAM
NO SCALE



B4 LIGHTING CONTROL DIAGRAM
NO SCALE



A4 LIGHT FIXTURE NOMECLATURE
NO SCALE

CIR C-1	CONTACTOR-1 30A 4-POLE	KITCHEN LTG
CIR C-3	120 VOLT COIL	KITCHEN LTG
CIR C-5	(STORE SWITCH ON AND OFF)	RESTROOM LTG / EF-3
CIR C-11		DINING LTG
CIR C-7	CONTACTOR-2 30A 4-POLE	DINING LTG
CIR C-9	120 VOLT COIL	SERV AREA LTG
CIR C-13	(STORE SWITCH ON AND OFF)	WATER RECIRC PUMP
SPARE		SPARE
CIR C-43	CONTACTOR-3 30A 4-POLE	BLDG. SIGNAGE
CIR C-45	120 VOLT COIL	BLDG. SIGNAGE
CIR C-47	(P'CELL ON AND SWITCH OFF)	BLDG. SIGNAGE
CIR C-49		BLDG. SIGNAGE
CIR C-19	CONTACTOR-4 30A 4-POLE	DIRECTIONAL SIGNS
CIR C-37	120 VOLT COIL	MAIN ID SIGN
CIR C-39	(P'CELL ON AND SWITCH OFF)	MAIN ID SIGN
CIR C-41		MAIN ID SIGN
SPARE	CONTACTOR-5 30A 4-POLE	SPARE
CIR C-31	120 VOLT COIL	BLDG LIGHTING
SPARE	(P'CELL ON AND SWITCH OFF)	SPARE
SPARE		SPARE
SPARE	CONTACTOR-6 30A 4-POLE	SPARE
SPARE	120 VOLT COIL	SPARE
SPARE	(P'CELL ON AND SWITCH OFF)	SPARE
SPARE		SPARE
CIR C-21,23	CONTACTOR-7 30A 4-POLE	PARKING LOT LTG (208V)
CIR C-25,27	120 VOLT COIL	PARKING LOT LTG (208V)
	(P'CELL ON AND SWITCH OFF)	
SPARE	CONTACTOR-8 30A 4-POLE	SPARE
SPARE	120 VOLT COIL	SPARE
SPARE	(STORE SWITCH ON AND OFF)	SPARE
SPARE		SPARE
CIR C-29	CONTACTOR-9 30A 4-POLE	SECURITY/FLAG LTG
SPARE	120 VOLT COIL	SPARE
SPARE	(PHOTOCELL ON AND OFF)	SPARE
SPARE		SPARE
CIR C-48	CONTACTOR-10 30A 4-POLE	EXHAUST FAN EF-1
CIR C-50	120 VOLT COIL	EXHAUST FAN EF-2
SPARE	(SWITCH ON & OFF, FS ON)	SPARE
SPARE		SPARE
CIR C-54	CONTACTOR-11 30A 4-POLE	HOOD CJ FAN/LIGHTS
SPARE	120 VOLT COIL	SPARE
SPARE	(SWITCH ON & OFF, FS ON)	SPARE
SPARE		SPARE

- NOTES:**
- 1) VERIFY WITH SUNCOAST ENVIRONMENTAL CONTROLS' SHOP DRAWINGS.
 - 2) ONLY THE 'HOT' CONDUCTOR OF EACH CIRCUIT SHALL BE RUN THRU THE CONTACTOR.
 - 3) ANY TAPS OR WIRING CONNECTIONS OTHER THAN TO THE TERMINALS SHALL BE DONE IN A JUNCTION BOX OUTSIDE OF THIS CABINET.
 - 4) VERIFY WITH THE LOCAL CODE IF CONTACTORS #10 AND #11 WILL BE ON OR OFF WHEN THE FS SYSTEM IS INITIATED.
 - 5) CIRCUITS C-49, C-25, AND C-27 WILL BE SPARES IF NOT NEEDED.

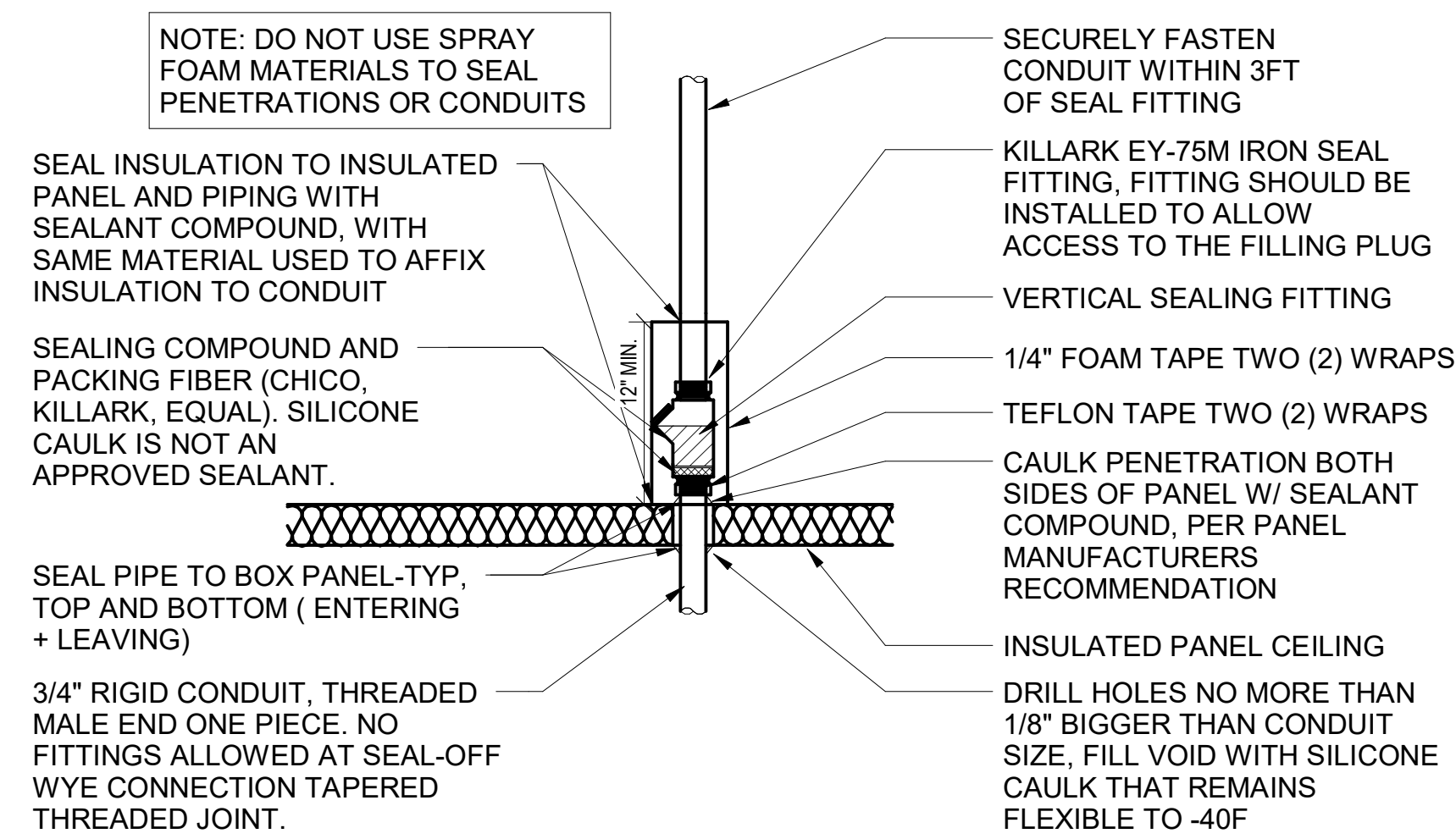
PER IECC 2018 SECTION C-405.2.2

CONTRACTOR SHALL COORDINATE WITH SUNCOAST ON PROVIDING AN AUTOMATIC TIME SWITCH THAT COMPLIES WITH SECTION C-405.2.2.1

C2 CFA-T500 CONTROL PANEL DIAGRAM
NO SCALE

(C1) ELECTRICAL LEGEND

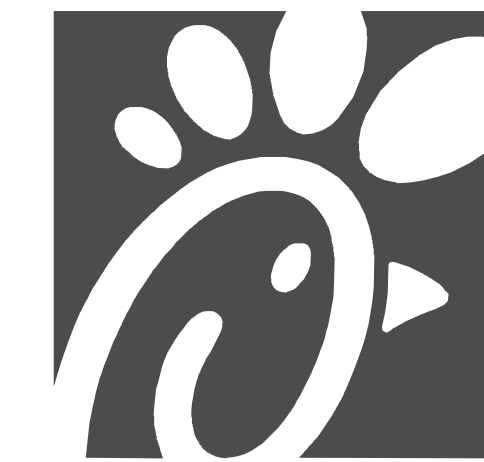
SYMBOL	DESCRIPTION	MTG HT AFF TO CL	SYMBOL	DESCRIPTION	MTG HT AFF TO CL
LIGHTING FIXTURES			MISCELLANEOUS SYMBOLS		
☐	SURFACE MOUNTED LIGHTING FIXTURE		⊕	GROUND	
☐	RECESSED LED TROFFER LIGHTING FIXTURE		Ⓜ	MOTOR	
○	SURFACE MOUNTED LED LIGHTING FIXTURE		Ⓜ	EXHAUST FAN MOTOR	
○	RECESSED LED LIGHTING FIXTURE		Ⓜ	JUNCTION BOX	
○	WALL MOUNTED LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE	AS NOTED	①	CONDUIT AND WIRE "MARK" NUMBER, REFER TO CONDUCTORS AND CONDUIT SCHEDULE FOR SIZE	
○	WALL MOUNTED EXIT SIGN. SHADE INDICATES FACES, PROVIDE CHEVRON DIRECTIONALS WHEN NEEDED	6" FROM CEILING TO TOP	①	KITCHEN EQUIPMENT "MARK" NUMBER, REFER TO KITCHEN EQUIPMENT SCHEDULE FOR REQUIREMENTS	
○	CEILING MTD EXIT SIGN, SHADING INDICATES FACES. PROVIDE W/ CHEVRON DIRECTIONALS WHEN NEEDED		①	NOTE NUMBER	
○	COMBO EXIT WITH TWO LAMPHEADS		Ⓜ	HOOD EXTINGUISHING FS PULL STATION	
○	WALL MTD EMERGENCY BATTERY PACK LIGHTING FIXTURE	AS NOTED	Ⓜ	SMOKE DETECTORS REMOTE STATUS INDICATOR W/ 1/2" C STUB-UP	
○	CEILING MTD EMERGENCY BATTERY PACK LIGHTING FIXTURE		Ⓜ	PUSHBUTTON	
○	FLUORESCENT STRIP LIGHTING FIXTURE		Ⓜ	BELL, TYPE AS NOTED ON PLANS	
○	WALLWASHER TYPE RECESSED DOWNLIGHT, AIM LIGHT TOWARD WALL		Ⓜ	PHOTO-ELECTRIC CELL	
☐	RECESSED LIGHTING FIXTURE W/ EMERGENCY BATTERY PACK		Ⓜ	TRANSFORMER / DRIVER	
☐	PENDANT LIGHTING FIXTURE	AS NOTED	Ⓜ	LOCKABLE SINGLE POLE SWITCH	
☐	LIGHTING TRACK WITH TRACK HEADS		Ⓜ	CEILING MOUNTED AUDIO SPEAKER	
WIRING DEVICES			ABBREVIATIONS		
Ⓜ	120 VOLT DUPLEX RECEPTACLE, 20 AMPS U.O.N.	14" UON	AFF	ABOVE FINISHED FLOOR	
Ⓜ	120 VOLT QUADRUPLEX RECEPTACLE, 20 AMPS U.O.N.	14" UON	AFG	ABOVE FINISHED GRADE	
Ⓜ	120 VOLT SIMPLEX RECEPTACLE, 20 AMPS U.O.N.	14" UON	AHU	AIR HANDLING UNIT	
Ⓜ	SINGLE SPECIAL PURPOSE RECEPT W/ VOLTS, AMPS, & PHASE AS NOTED, NEMA CONFIGURATION AS REQUIRED BY EQUIP.	14" UON	C	CONDUIT	
Ⓜ	RECEPTACLE MOUNTED ON DROP CORD, 120 VOLT, 20 AMP, UON, OUTLET BOX FLUSH WITH CEILING		CL	CENTER-LINE	
Ⓜ	SINGLE POLE TOGGLE SWITCH	48"	CT	CONTACTOR	
Ⓜ	DOUBLE POLE TOGGLE SWITCH	48"	EF	EXHAUST FAN	
Ⓜ	THREE WAY TOGGLE SWITCH	48"	FLA	FULL LOAD AMPS	
Ⓜ	SWITCH WITH TIMER	48"	GF/GFI	GROUND FAULT CIRCUIT INTERRUPTER	
Ⓜ	MANUAL MOTOR STARTER SWITCH (WP=NEMA 3R)	48"	GND/GRD	GROUND	
Ⓜ	SWITCH WITH PILOT LIGHT (ON WHEN SWITCH IS ON)	48"	HT	HEIGHT	
Ⓜ	KEY OPERATED SWITCH	48"	IG	ISOLATED GRD, PROVIDE ORANGE DEVICE WHEN ADJACENT TO WIRING DEVICE	
CONDUIT/RACEWAYS			MOC	MAXIMUM OVER-CURRENT PROTECTION	
—	CONDUIT CONCEALED ABOVE CEILING OR IN WALL		MUA	MAKE UP AIR UNIT	
—	CIRCUIT HOMERUN TO PANELBOARD W/ MIN 2#12, 1#12G, 3/4"C		NEC	LOCALLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70)	
—	CONDUIT TURNING UP		NL	NIGHT LIGHT (ON 24 HOURS)	
—	CONDUIT TURNING DOWN		OC	ON CENTER	
—	CONDUIT CONCEALED IN OR BELOW SLAB (OR UNDERGROUND)		POS	POINT OF SALE EQUIPMENT	
—	FLEXIBLE LIGHT FIXTURE WHIP, SIX FOOT MAXIMUM LENGTH		RTU	ROOF TOP UNIT	
—	METAL CLAD CABLE ASSEMBLY - ONLY WHERE INDICATED ON DWGS OR SPECS		TB	TERMINAL BLOCK	
DISTRIBUTION EQUIPMENT			TL	TWIST-LOCK TYPE DEVICE	
☐	NON-FUSIBLE SAFETY SWITCH, SIZE AND TYPE AS NOTED ON PLANS (AMP/POLES/ENCLOSURE) OR ON SCHEDULE. NEMA 1 ENCLOSURE UNLESS NOTED WP FOR NEMA 3R ENCLOSURE.	6'-6" *	TR	TAMPER-RESISTANT	
☐	FUSIBLE SAFETY SWITCH, SIZE & TYPE AS NOTED ON PLANS (AMP/POLES/FUSE AMPS/ENCLOSURE) OR ON SCHEDULE. NEMA 1 ENCLOSURE UNLESS NOTED WP FOR NEMA 3R.	6'-6" *	UON	UNLESS OTHERWISE NOTED	
☐	FLUSH MOUNTED PANELBOARD	6'-6" *	WP	WEATHERPROOF (NEMA 3R)	
☐	SURFACE MOUNTED PANELBOARD	6'-6" *	TELEPHONE		
			☐	TELEPHONE OUTLET	18" UON
			☐	TELEPHONE OUTLET AT SPECIAL MOUNTING HEIGHT	60" UON
			NOTE: EACH TELEPHONE OUTLET (FLOOR OR WALL MOUNTED) SHALL BE PROVIDED WITH A 3/4" EMPTY CONDUIT, WITH PULL WIRE, TO ACCESSIBLE CEILING SPACE.		
			CCTV / SECURITY SYSTEM		
			☐	SECURITY ALARM KEYPAD	
* 6'-6" DISTANCE IS TO TOP-MOST DISCONNECTING DEVICE OR HIGHEST POSITION OF OPERATING HANDLE OF DISCONNECTING DEVICE					



A2 WIC/WIF SEAL-OFF DETAIL
NO SCALE

SIGNAGE NOTE

THE ELECTRICAL SUBCONTRACTOR SHALL INCLUDE THE ELECTRICAL ROUGH-IN AND FINAL CONNECTIONS OF ALL SIGNAGE (BUILDING MOUNTED AND GROUND MOUNTED ON THE SITE) IN HIS SCOPE OF WORK AND UNDER HIS LOCAL CODE PERMITTING PROCESS. PROVIDE A COPY OF THE PERMIT (WHICH SPECIFICALLY INCLUDES THE SIGNAGE) TO THE SIGN VENDOR IN ORDER TO EXPEDITE THE SIGN VENDOR'S PERMIT PROCESS.



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02/02/24

CHICK-FIL-A
HULL STREET AT
1280 BRIDGEWOOD CROSSINGS
DRIVE
MIDLOTHIAN, VA 23112

FSR#05416

BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.02

PRINTED FOR
CONSTRUCTION

REVISION SCHEDULE
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 2314.EH.S
DATE 09/15/2023

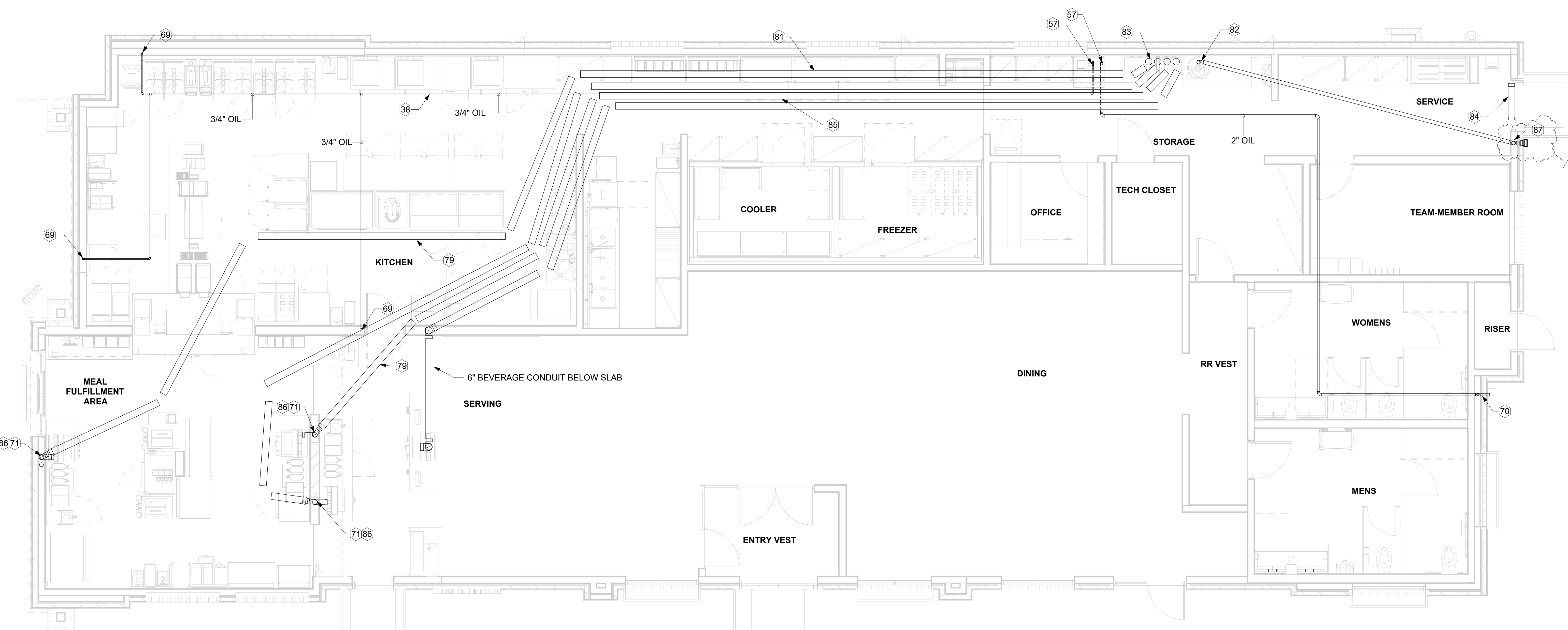
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SHEET
ELECTRICAL SCHEDULES AND DETAILS

SHEET NUMBER

E-001

2/2/2024 12:10:44 PM Autodesk Docs://VA_05416_RELO Hull Street FSU_2023.4_FSR05416_RELO Hull Street FSU_PLB.MT
40-LE-05416-P-104-BEVERAGE CONDUIT AND OIL PIPING PLAN



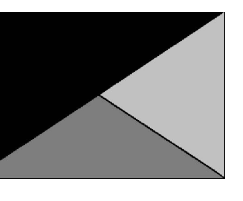
1 BEVERAGE CONDUIT AND OIL PIPING PLAN
1/4" = 1'-0"

KEY NOTES

- 38 PROVIDE SCHEDULE 40 (BLACK OR GALVANIZED) STEEL PIPING BACK TO FUTURE DARPRO OIL TANK. PIPING TO BE ROUTED TO ALLOW AS MUCH FALL AS POSSIBLE TO THE TANK.
- 57 3/4" AND 2" SCHEDULE 40 STEEL PIPES DOWN THROUGH CEILING. CAP PIPES 2" BELOW THE CEILING FOR FUTURE CONNECTION. PROVIDE CHROMED ESCUTCHEONS AT CEILING PENETRATIONS.
- 69 STUB OUT TO BE MOUNTED 30" AFF. SEE DETAIL SHEET FOR MORE INFORMATION.
- 70 EXTEND 2" STEEL PIPE BEYOND FACE OF BRICK. CAP FOR FUTURE USE. GC TO TRIM STUB-OUT ACCORDINGLY.
- 71 4" 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 #4 AND #5.
- 79 ROUTE 6" BEVERAGE CONDUIT IN THIS AREA ABOVE RECTANGULAR DUCT. COORDINATE CLOSELY WITH HVAC INSTALLER PRIOR TO INSTALLATION.
- 81 6" BEVERAGE CONDUITS. SEE BEVERAGE CONDUIT NOTE #3.
- 82 3" DIA SCHED 40 PVC SWEEP TURNED DOWN WITH DROP THRU ACT ABOVE BULK CO2 TANK. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR PRECISE LOCATION. SEE DETAIL #5 THIS SHEET.
- 83 6" BEVERAGE CONDUIT TURNED DOWN THRU ACT. TYPICAL. SEE DETAIL SHEET FOR MORE INFORMATION.
- 84 PLAN STORAGE TUBE ABOVE DOOR. MOUNT 6" DIA X 30" LONG PVC WITH CLEANOUT PLUGS AT EACH END. SECURE TO WALL 3" ABOVE AIR CURTAIN WITH STRUT AND CLAMP.
- 85 6" BEVERAGE CONDUIT TIGHT TO STRUCTURE. EXTEND WITHIN WALL. EXTEND UP THRU WALL FRAMING JUST ABOVE CEILING. TYPICAL. COORDINATE WITH DEVICES, CONDUITS, AND FIXTURES FROM OTHER DISCIPLINES DURING PRE-CONSTRUCTION MEETING.
- 86 TRANSITION FROM 6" TO 4" BEVERAGE CONDUIT AS CLOSE TO WALL AS POSSIBLE.
- 87 4" DIA STUB OUT AT REMOTE FILL-BOX. SEE DETAIL 9/P-501.



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02/02/24

CHICK-FIL-A
RELO HULL STREET FSU
12280 BRIDGEWOOD CROSSING
Midlothian, VA 23112

FSR#05416

BUILDING TYPE / SIZE:	P14 LE BN	
RELEASE:	23.02	
PRINTED FOR:	CONSTRUCTION	
REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	02/05/2024	DESIGN

CONSULTANT PROJECT #	23141.EH.S
DATE	09/18/23
DRAWN BY	CH
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SHEET BEVERAGE CONDUIT AND OIL PIPING PLAN	
SHEET NUMBER	

P-104

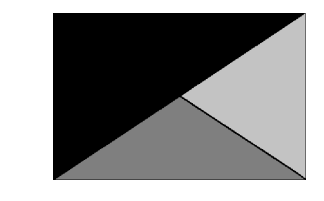
1. ALL SO CORD LENGTHS SHALL BE MEASURED FROM THE REAR OF THE EQUIPMENT TO THE END OF THE CORD.
 2. CONTRACTOR SHALL PROVIDE GROUND-FAULT PROTECTION FOR ALL 120 VOLT 15 AMP AND 20 AMP RECEPTACLES IN THE KITCHEN / FOOD PREPARATION AREAS. GROUND-FAULT PROTECTION SHALL BE PROVIDED AT THE RECEPTACLE AS A GFCI TYPE RECEPTACLE UNLESS NOTED OTHERWISE ON THE PLANS WHERE A GFCI TYPE BREAKER IS INDICATED.
 3. PROVIDE GFCI TYPE BRANCH BREAKER FOR KITCHEN / FOOD PREPARATION AREA RECEPTACLES THAT ARE TWIST-LOCK, CLOCK STYLE, OR IG (ISOLATED GROUND) TYPE.

KITCHEN EQUIPMENT SCHEDULE - CHICK-FIL-A P14 EDITION

ITEM NO.	DESCRIPTION OF EQUIPMENT	VOLTS	PH	KW	AMPS	NEMA-RATING	COMMENTS AND REMARKS
180	ORDER REGISTER	120	1		0.70	5-20P	
182	RECEIPT PRINTER	other	1		1.80	5-20P	<varies>
182L	LABEL PRINTER	other	1		1.70	5-20P	PROVIDED WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
183	ORDER MONITOR	120	1		0.125	5-20P	PROVIDED BY CFA IT
184	IPAD	120	1	0.120	1.00	5-20P	PROVIDED BY CONNECTION
184T	ITIMER	120	1	0.120	1.00	5-20P	PROVIDED BY CLARK
190	DRIVE-THRU VIDEO MONITOR	120	1		0.8	5-20P	
211B	FLY LIGHT (MANTIS QUALIS)	120	1	0.013	0.11	5-20P	CLOCK STYLE RECEPTACLE REQUIRED
211C	FLY LIGHT (MANTIS SIRIUS X)	120	1	0.013	0.11	5-20P	CLOCK STYLE RECEPTACLE REQUIRED - RE: ARCHITECTURAL SHEETS FOR MOUNTING DETAILS
269	FIRE SUPPRESSION SYSTEM	120	1			VERIFY	DIRECT CONNECTION REMOTE CABINET - REFER TO SHOP DRAWINGS - FED FROM CFA-T500 PANEL
270	FIRE SUPPRESSION SYSTEM	120	1			VERIFY	DIRECT CONNECTION LOCATED ABOVE HOOD - BEHIND CLOSURE PANEL - REFER TO SHOP DRAWINGS - FED FROM CFA-T500 PANEL
300aR	MILKSHAKE BASE DISPENSER	120	1		2.00	5-15P	ORDER (4) MODEL #4-0090-0014 REPLACEMENT LEGS
300X	DOUBLE BARREL ICE CREAM MACHINE	208	3		19.00/15.00	15-30P/15-20P	PROVIDED WITH HUBBELL HBL8432C & HBL8421C ANGLE PLUGS
305	TEA BREWER	120	1	1.650	13.80	5-15P	PROVIDE QUICK DISCONNECT HOSES
308	SINGLE COFFEE MAKER	208	1	4.000	19.20	L14-30P	QUICK DISCONNECT HOSES PROVIDED BY CFA WAREHOUSE
310	DOUBLE LEMONADE BUBBLER	120	1		8.50	5-15P	ORDER (1) #3CRA016 BOWL KIT AND (1) #3CRA018 BASE PER BUBBLER AND ORDER TOTAL OF (1) #3CRA021 SET OF (2) 2.4 GAL BOWLS
315W	10-HEAD BEVERAGE DISPENSER WITH ICE BIN	115	1		10.00	5-15P/5-15P	PROVIDED WITH (2) CORDS AND PLUGS PER TOWER
320	TURBO CARBONATOR	115	1		6.2	5-20P	ORDER (6) #44231, (2) #44233, (6) DR. PEPPER PUMPS, & (2) #C77004
363H	HIGH-TEMP UPRIGHT DISHWASHER	208	3		53.68	DIRECT CONNECTION	INCLUDES 6 FT BRAIDED HOSE AND INTEGRATED DRAIN WATER TEMPERING SYSTEM - ORDER WITH ASR-LEFT-AM16 ACCESSORY
380	ICE MACHINE	115	1	0.600	5.00	5-15P	INSTALLED ON TOP OF ICE BIN - PROVIDED WITH 6 FT CORD AND 35 FT LINE SETS
380a	ICE BIN SANITATION SYSTEM	120	1	0.0096		5-15P	INSTALLED ON WALL ABOVE ICE BIN - SHARES DUPLEX WITH (1) ICE MACHINE
380C	ICE MACHINE REMOTE CONDENSING UNIT	208	3	3.100	14.20	DIRECT CONNECTION	AIR COOLED UNIT - GC SHALL PLACE AND INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWINGS
380CD	ICE MACHINE REMOTE CONDENSING UNIT	208	3	3.600	15.70	DIRECT CONNECTION	AIR COOLED UNIT - GC SHALL PLACE AND INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWINGS
380D	ICE MACHINE	115	1	0.368	5.00	5-15P	INSTALLED ON TOP OF ICE BIN - PROVIDED WITH 6 FT CORD AND 35 FT LINE SETS
400L	SINGLE UPRIGHT FREEZER (30" WIDE)	115	1	1.100	9.40	5-15P	HINGE LEFT - PROVIDE FINISHED BACK - ORDER ON 4 5/8 IN CASTERS
400LR	SINGLE UPRIGHT FREEZER (30" WIDE)	115	1	1.100	9.40	5-15P	HINGE LEFT - PROVIDE FINISHED BACK - ON 4 5/8 IN CASTERS
410	WALK-IN FREEZER	120	1		3.3	DIRECT CONNECTION	ORDER WITHOUT FLOOR - REFER TO LIGHTING PLAN
410a	WALK-IN FREEZER CONDENSER	208	3		16.30	DIRECT CONNECTION	GC SHALL INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWINGS
410b	WALK-IN FREEZER EVAPORATOR	208	1		1.50	DIRECT CONNECTION	POWER FED FROM CONDENSER
420	SINGLE UNDERCOUNTER REFRIGERATOR	115	1	0.564	4.70	5-20P	HINGE RIGHT - ORDER ON 4 IN CASTERS
420L	SINGLE UNDERCOUNTER REFRIGERATOR	115	1	0.564	4.70	5-20P	HINGE LEFT - ORDER ON 4 IN CASTERS
421	DOUBLE UNDERCOUNTER REFRIGERATOR	115	1	0.756	6.30	5-15P	ORDER ON 4 IN CASTERS
422T	REFRIGERATED EQUIPMENT STAND (48")	115	1	0.80	6.70	L5-15P	EC TO CHANGE PLUG TO TWIST LOCK - PROVIDED W/9' CORD - ORDER ON 4" CASTERS
431	DOUBLE REFRIGERATED WORK TABLE	115	1	0.756	6.30	5-15P	ORDER ON 6 IN CASTERS WITH BACKSPASH TOP
439L	40" COLD RAIL	115	1	0.800	7.10	5-15P	COMPRESSOR ON LEFT - SUPPLIED WITH 9 FT CORD AND PLUG
440C	ICE BATH BREADING TABLE	120	1		1.00	5-15P	10 FT CORD AND PLUG - LEAF INCLUDED WITH TABLE - INSTALL IF SHOWN ON PLANS
440CR	ICE BATH BREADING TABLE	120	1		1.00	5-15P	
441	SALAD PREP TABLE	115	1		9.0	L5-15P	PROVIDE WITH TWIST LOCK PLUG; ORDER ON 4" CASTERS WITH PAN PKG.; SESC TO PROVIDE PAN PKG.
442WC	SINGLE UPRIGHT REFRIGERATOR (30" WIDE)	115	1		7	5-15P	HINGE RIGHT - PROVIDE FINISHED BACK - ORDER ON 6 IN CASTERS
443GLT	SINGLE UPRIGHT REFRIGERATOR (24" WIDE)	115	1		8.00	L5-15P (BY EC)	HINGE LEFT - HALF HEIGHT GLASS DOORS - PROVIDE FINISHED BACK - ORDER ON 6 IN CASTERS - EC TO CHANGE PLUG TO TWIST LOCK
444D	DOUBLE THAWING CABINET (52" WIDE)	115	1		16.00	DIRECT CONNECTION	HINGE STANDARD - GC TO INSTALL LIQUID TIGHT FLEX CONDUIT - ORDER ON 6 IN CASTERS
449	WALK-IN COOLER	120	1		2.4	DIRECT CONNECTION	ORDER WITHOUT FLOOR - REFER TO LIGHTING PLAN
449a	WALK-IN COOLER CONDENSER	208	3		9.50	DIRECT CONNECTION	GC SHALL INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWINGS
449b	WALK-IN COOLER EVAPORATOR	208	1	0.110	1.00	DIRECT CONNECTION	POWER FED FROM CONDENSER
500A	VERTICAL CONTACT TOASTER	120	1	1.80	15.00	5-15P	
500B	RADIANT TOASTER	208	1	5.50	24.00	L6-30P	PROVIDED WITH TWIST LOCK PLUG
503TR	EGG STATION	208	1	2.5	12.5	L6-20P	
505VLT	VECTOR OVEN	208	3	7.90	22.00	L15-30P (BY EC)	HINGE LEFT - EC TO CHANGE PLUG TO TWIST LOCK
505VLTTR	VECTOR OVEN	208	3	7.90	22.00	L15-30P (BY EC)	HINGE LEFT - EC TO CHANGE PLUG TO TWIST LOCK IF NEEDED - FIELD VERIFY
522	SINGLE OPEN FRYER	208	3	22.000	62.00	PIN & SLEEVE	PIN & SLEEVE PROVIDED WITH EQUIPMENT AND RECEPTACLE BOX PROVIDED WITH HALTON ITEMS - (1) POWER CONNECTION PER WELL
522R	SINGLE OPEN FRYER	208	3	22.000	62.00	PIN & SLEEVE	
523	PRESSURE FRYER	208	3	13.500	38.00	15-50P	PROVIDED WITH 6 FT CORD AND PLUG
523R	PRESSURE FRYER	208	3	13.500	38.00	15-50P	
524	DUAL SIDE CLAMSHELL GRILL	208	3	9	24.1/28.2/23.1	15-50P	PROVIDED WITH 5' CORD & PLUG
560	FRY HOLDING STATION	120	1	1.900	15.40	DIRECT CONNECTION	
562A	HIGH DENSITY HOT HOLDING TOWER	120	1	1.80	16.00	5-20P	PROVIDED WITH 8 FT CORD AND PLUG
563D	DOUBLE TIER SANDWICH SLIDE	120	1	1.09	9.13	5-15P	CORD EXITS RIGHT - 6' CORD AND PLUG
563SL	SINGLE TIER SANDWICH SLIDE	120	1	0.548	4.56	5-15P	CORD EXITS LEFT - 6' CORD AND PLUG
564BD	VISUAL HOT HOLDING CABINET (2x2 LANDSCAPE)	120	1	0.660	5.50	5-15P	DUAL-SIDED DISPLAY - ORDER WITH LIDS/TRAY SEALS, AMBER PANS, AND FALSE BOTTOMS
565C	FOOD COOKER/WARMER	115	1	1.200	12.50	5-15P	ORDER WITH (1) 3VOL042, (2) 3VOL043, (8) 3VOL051, AND (8) 3VOL061
580H	VISUAL HOT HOLDING CABINET (5x2)	120	1	1.920	16.00	5-20P	ORDER WITH LIDS/TRAY SEALS
592R	RETHERMALIZER	208	3	8.000	22.00	15-30P	
600T	MIXER	120	1		8.00	L5-20P (BY EC)	EC TO CHANGE PLUG TO TWIST LOCK - ORDER WITH (1) 3HOB405, (1) 3HOB061, (2) 3HOB318, (2) 3HOB319, AND (1) 3HOB058
607	COUNTERTOP LEMON JUICER	115	1			5-15P	
669	OFFICE SAFE	120	1				INSTALL SAFE PER MANUFACTURE'S WRITTEN INSTRUCTIONS
672	DIGITAL MENU BOARD	120	1			5-15P	PROVIDED BY COATES
675	STATUS BOARD	120	1			5-15P	PROVIDED BY COATES



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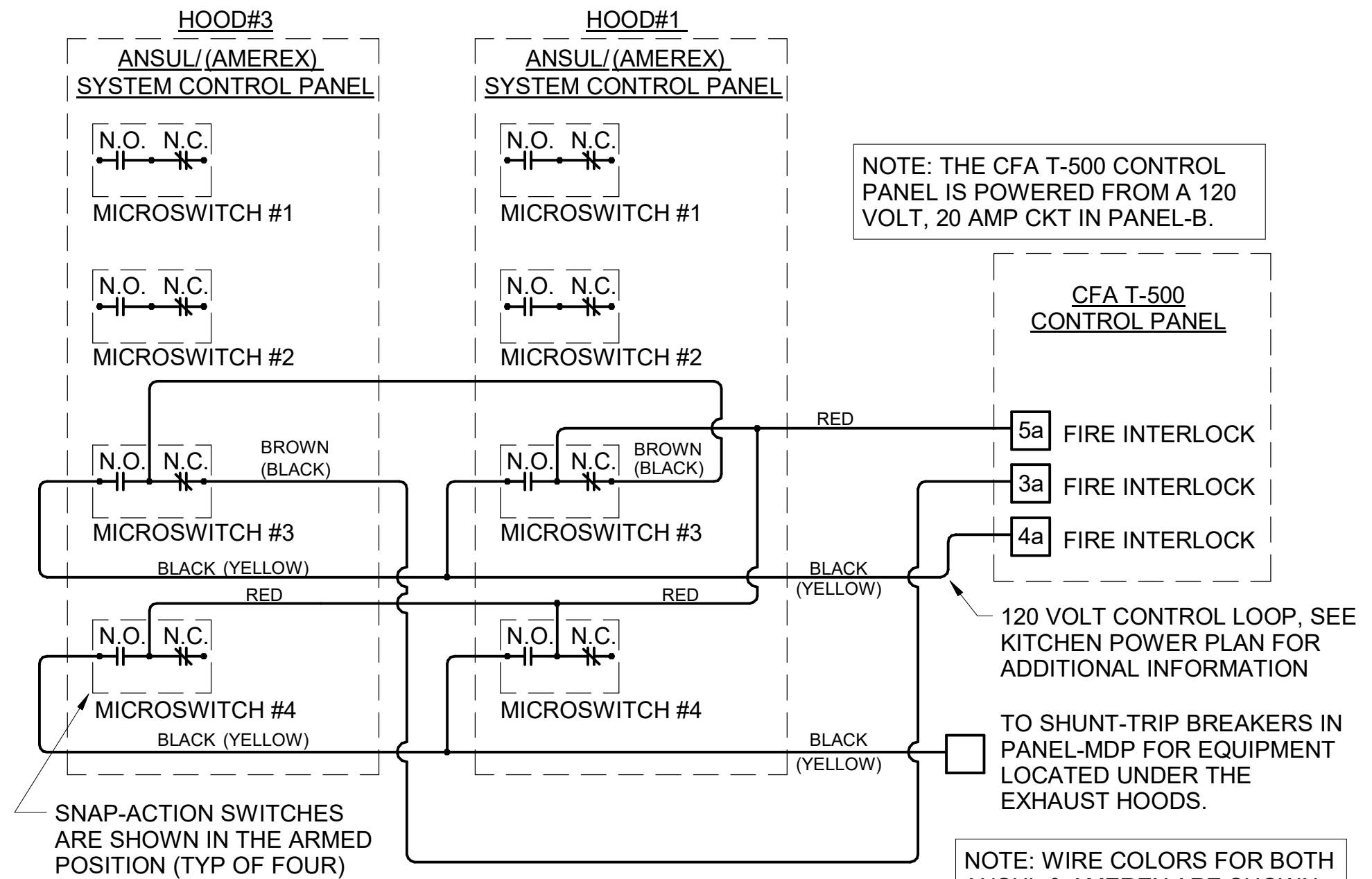
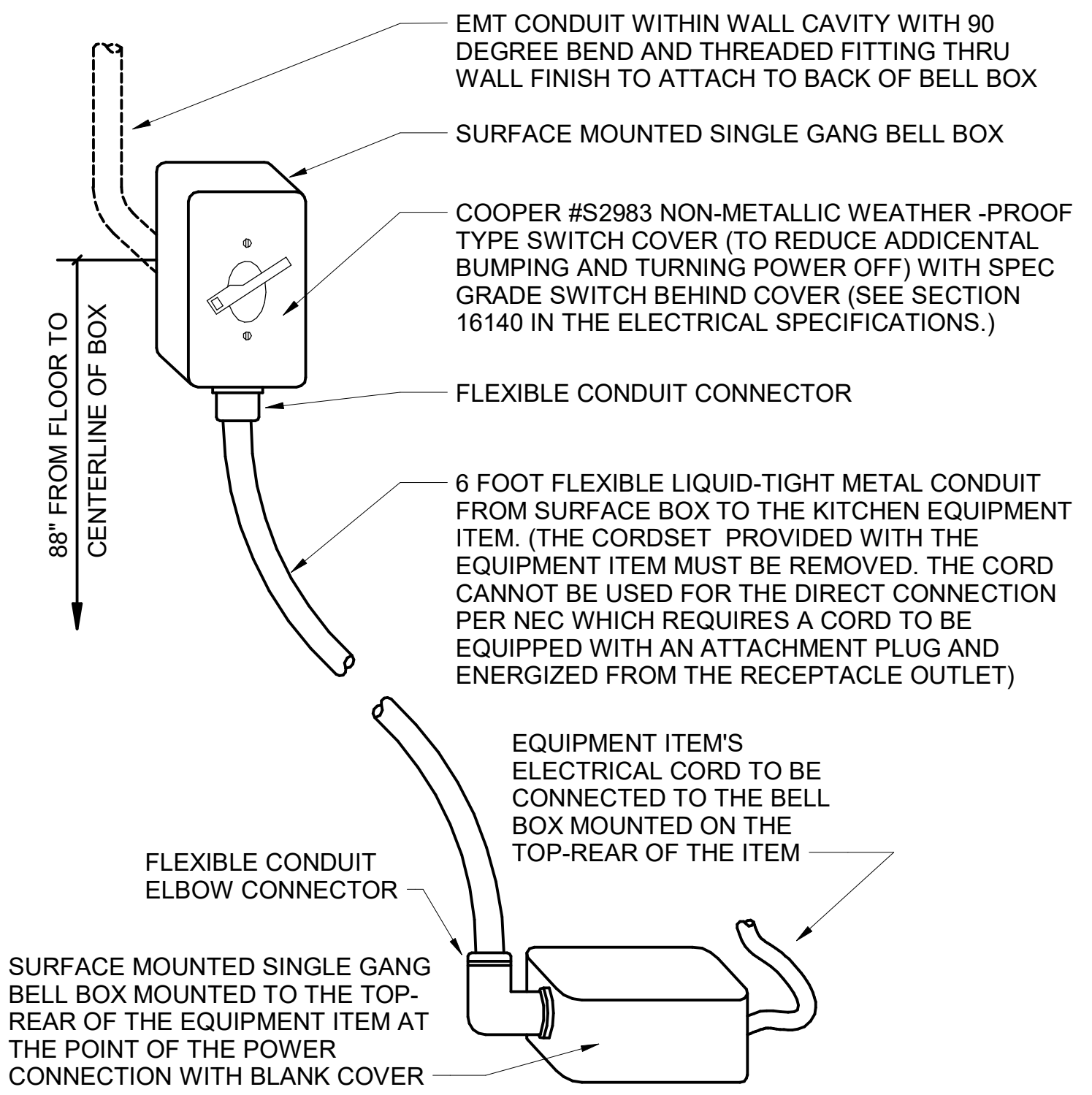
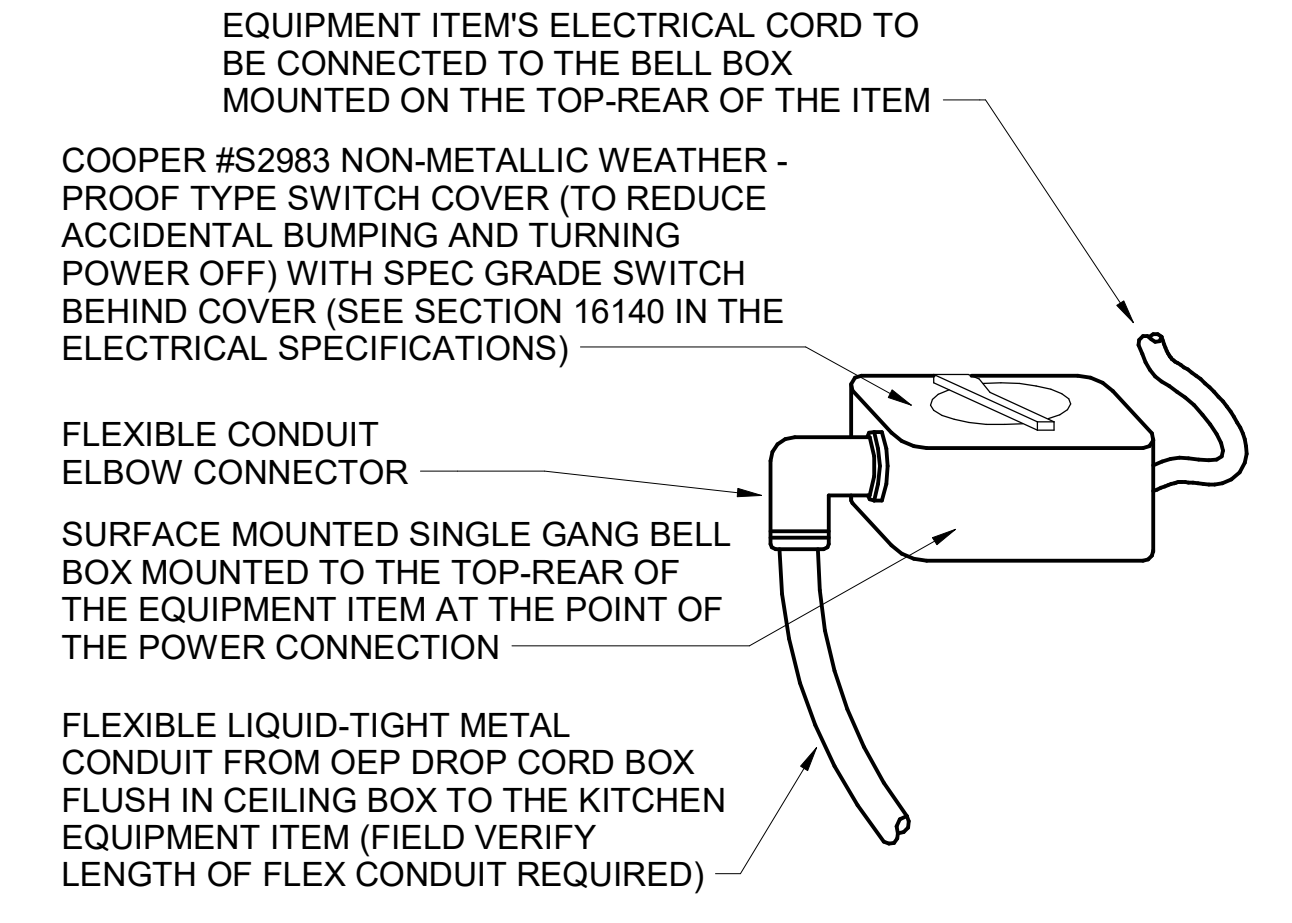
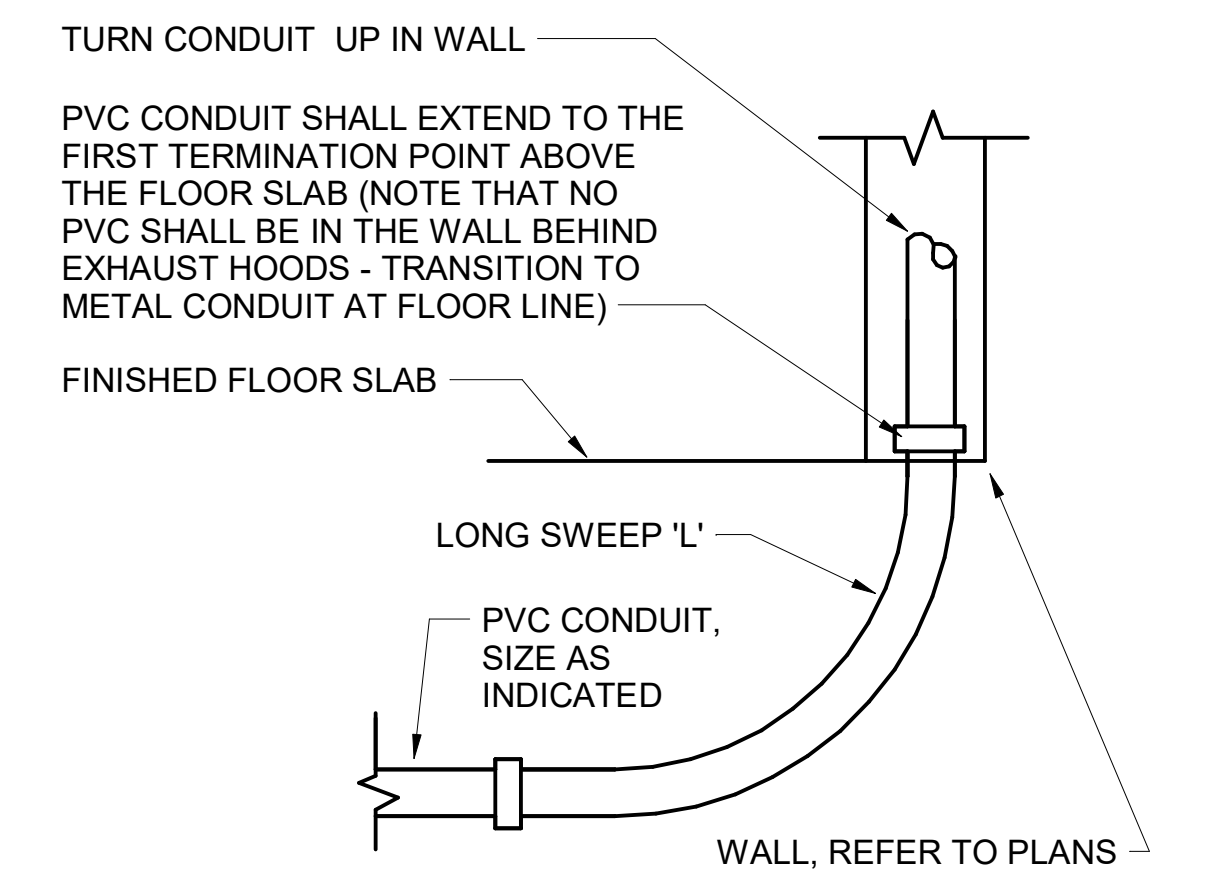
BUILDING TYPE / SIZE: P14 LE BS
 RELEASE: 23.02
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REVISION SCHEDULE

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 23141.EH.S
 DATE 09/15/2023
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ELECTRICAL SCHEDULES AND DETAILS
 SHEET NUMBER

E-002



- NEMA 5-15
- NEMA 5-20
- NEMA L5-20
- NEMA L14-20
- NEMA 14-30
- NEMA L14-30
- NEMA 15-20
- NEMA 15-30
- NEMA 15-50
- NEMA 15-60

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. Ratings: 20 amps, 120/277 volts a.c. or as identified on drawings.

- B. 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)

- 3. Three-way toggle switches: 20 AMP device - #AH1223-GY (Kitchen) or #AH1223-B (Dining)

1.02 RECEPTACLES

- A. Devices: (Cooper/Arrow Hart catalog numbers are listed unless otherwise noted):

- 1. Specification grade devices to be 20 amp, 125 volts, a.c. receptacles:

- a. Single (simplex) device: #1877-GY (Kit) or #1877-B (Dining)
- b. Duplex device: #CR20-GY (Kitchen) or #CR20-B (Dining)
- c. Tamper resistant duplex device: #TRCR20-B or #TR7756-B (with USB charging)
- d. GF (ground-fault circuit interrupter) duplex device: #VGF20-GY (Kitchen) or #VGF20-B (Dining)
- e. IG (isolated ground) duplex device: #IGS362-RN (orange face)

B. Color:

- 1. Devices mounted in the FRP or tile shall be gray.
- 2. Devices mounted in wood finish shall be brown.
- 3. Isolated ground receptacles shall be orange.

1.03 SPECIAL DEVICES

- A. Manual motor starter switch: SQ, D Class 2510, Type F, for use on motors up to 3/4 horsepower. Provide NEMA 1 enclosure in dry locations; provide NEMA 3R enclosure in wet or exterior locations.

1.04 WALL PLATES

- A. Provide blank plates on all outlet boxes for future outlets, or outlets without devices. Plate style shall match device plates.

- B. Provide non-metallic weatherproof covers for duplex GF receptacles located outside or in wet locations that feature 'while-in-use' cover equivalent to Arrow Hart #WU-1.

- C. Where devices installed in exposed boxes or conduit fittings; provide properly designed plates and covers equal to Arrow Hart RS-Series exposed work covers.

- D. Install galvanized steel plates on outlet boxes and junction boxes in unfinished areas, above accessible ceilings, and on surface mounted boxes.

E. Color:

- 1. Wall plates mounted in FRP or tile shall be smooth satin stainless steel 302-ss series.
- 2. Wall plates mounted in wood finish shall be brown nylon plastic.
- 3. Isolated ground wall plates shall be orange nylon plastic with a circuit number printed in 3/16 inch black lettering on clear adhesive label adhered to plate.

PART 2 - EXECUTION

2.01 INSTALLATION

A. Mounting

- 1. Mount switches and receptacles at height above finished floor as indicated on plans, and legend.
- 2. Mount switches on strike side of door maximum 8" from door frame. Outlet box for switch shall be located clear of door frame. Coordinate with architectural plans prior to rough-in.
- 3. Install switches with off position down.
- 4. Do not use the feed thru feature for the GF Type receptacle, unless required by the plans.
- 5. Use jumbo sized plates for outlets installed in masonry walls.
- 6. Each receptacle shall be provided with a #12 green grounding jumper between the ground terminal of the receptacle and the outlet box.
- 7. The grounding conductor to each receptacle shall be installed such that the removal of the device will not interfere with the continuity of the ground.

B. Testing

- 1. Test each switch and verify proper operation with energized circuit.
- 2. Test each receptacle for proper polarity on energized circuit.
- 3. Test each GF receptacle with a GF receptacle tester and verify circuit is opened by GF device at milli-ampere ranges established by the manufacturer.

SECTION C16440
PANELBOARDS

PART 1 - PRODUCTS

1.01 MANUFACTURER (via Chick-fil-A National Accounts Program)

- A. Square-D (for all Regions); from Villa Lighting, Dave Christanell (800)325-0963

1.02 PANELBOARD FEATURES

- A. Panelboards shall have a minimum symmetrical interrupting rating to meet or exceed the available symmetrical interrupting fault current at the device intended to interrupt current.

- B. Bus bars shall be copper.

- C. Provide factory-installed copper ground bus in each panelboard with lugs or connectors on bar.

- D. Provide electrically isolated, factory installed, neutral bus in each 3 phase, 4 wire or 1 phase 3 wire panelboard.

- E. In addition to the ground bus required by paragraph 1.02D (above), provide factory installed, electrically isolated, copper ground bus in each panelboard serving isolated ground receptacles.

- F. Main lugs and main circuit breaker lugs shall be UL Listed for use with both aluminum and copper conductors.

- G. Provide panelboard doors with chrome-plated locks and catches. All locks shall be keyed alike. Provide two keys for each lock.

- H. Provide thermal-magnetic circuit breakers which are rated for 40 degrees C ambient temperature. Breakers shall be quick-make, quick-break type trip with trip indication shown by handle position other than on or off. Multi-pole breakers shall have a common trip handle. Tandem type circuit breakers shall not be permitted.

- I. MDP 100% rated main breaker, 1200 Amps or higher, shall be equipped with Arc Flash Maintenance Setting switch for use as a temporary arc-flash incident energy reduction device during maintenance activities.

- J. Provide typed directory card with clear holder for each panelboard.

PART 2 - EXECUTION

2.01 INSTALLATION

- A. Panelboards shall be mounted at height above finished floor such that the height of the top-most breaker in the panel is not more than 6-1/2 feet above finished floor in its highest position per the NEC.

- B. Where multiple panelboards are installed on walls in common areas of buildings, the panelboards shall be installed with the top of all panelboards at the same height.

- C. Provide blank filler plates over all unused spaces in panelboards.

- D. A typed directory card shall indicate devices being served and the space name where the device is located.

- E. Provide minimum of one (1) 3/4" empty spare conduit for every 3 poles of spare breaker or space in the panelboard. Stub conduit to nearest accessible ceiling space. Label conduit as spare at panelboard and termination point.

- F. Non-isolated ground bars shall be grounded to panelboard can and main service entrance ground bus with a code sized grounding conductor installed in the same conduit as the phase and neutral conductors.

- G. Circuits using a common neutral shall be installed in accordance with the National Electrical Code.

- H. Inspect each panelboard for proper installation, physical damage, tightness and installation of overcurrent devices. Verify proper color coding of conductors. Correct or repair all items found in inspection.

- I. Neutral wires, ground wires, and isolated ground wires shall be connected to the appropriate panel bus bar. Do not mix bus wire connections.

SECTION C16441
ENCLOSED SWITCHES

PART 1 - PRODUCTS

1.01 MANUFACTURERS

- A. Square D
- B. GE / ABB
- C. Siemens

1.02 ENCLOSED SWITCHES

- A. 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. Villa Lighting - all regions. Contact at Villa Lighting: Dave Christanell at 800-325-0963, fax- 314-531-8720, email - davec@villalighting.com

- B. 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, GE / ABB, Cutler-Hammer or Siemens of types and quantity shown on drawings, except those furnished with the switchgear as part of the National Account Program by Suncoast Environmental Controls (SEC).

1.04 EMERGENCY LIGHTING UNITS

- A. Batteries shall supply emergency power for lighting with minimum operating time of 1-1/2 hours.

- B. Emergency lighting shall be automatically operational upon normal utility power failure.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Lighting fixtures shall be structurally supported. Fluorescent fixtures mounted in suspended ceilings shall be supported by and attached to ceiling system as required by NEC Article 410. In addition, fluorescent troffers shall be supported at two opposite corners to building structure.

- B. Recessed fixtures in dropped ceiling areas shall be connected to power source using flexible conduit. Flexible conduit shall contain a separate insulated green No. 12 copper ground wire. Flexible conduit shall be connected to junction box and fixture. Green ground wire shall provide ground continuity between conduit system and fixture. Grounding conductors shall be permanently and mechanically connected between fixture and conduit system so as to be electrically continuous.

- C. Fixtures surface mounted on exposed tee bar ceilings shall use grip clamps on tee bars to support fixtures.

- D. Wire shall be continuous from splice in outlet box of building wiring system to lamp socket or ballast terminals.

- E. Maintain the integrity of enclosures on enclosed and gasketed fixtures. Minimize the number of enclosure penetrations and make such penetrations water and dust tight with appropriate gaskets and fittings.

- F. Concrete bases shall be provided for all exterior ground mounted or pole mounted fixtures.

- G. Install accessories furnished with each fixture.

- H. Wiring from pole bases to pole mounted luminaire shall be No. 12 with fuse protection provided by a 30 amp, 600 volt waterproof fuseholder with Bussman '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. Replace fixtures that have failed lamps at substantial completion.

SECTION C16596
SPECIAL SYSTEMS

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. Furnish and install raceway system for music / communications security, CCTV, POS, and other owner-furnished systems, consisting of empty conduits, junction boxes, outlet boxes, and device plates, etc., as specified and shown on owner selected vendor wiring schematics. Cable, equipment, and installation of the interior system will be provided by the owner's system vendor.

- B. Interior system equipment will be furnished by Owner's Vendor.

- C. Install special backboxes furnished by Owner's Vendor. Coordinate with the Vendor for the installation. Coordinate with the Vendor if backboxes are to be contractor provided in order to provide and install the appropriate item for the Vendor.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Provide 4-11/16" square boxes, with plaster rings. Provide device plates for system outlets as specified in Section 16141. Provide separate conduit to nearest accessible ceiling space from each outlet.

- B. Cable shall be in conduit where installed in walls or inaccessible ceilings.

- C. Minimum conduit size shall be 3/4" .

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Furnish and install conduits, junction boxes, outlet boxes, and plates.

- B. Provide one #10 equivalent nylon pull wire in each system empty conduit.

- C. Provide a complete raceway system in accordance with interior system vendor requirements. Interior system vendor shall review the drawings. Contractor shall provide for any additional or varying requirements.

- D. Final connections and testing of systems will be provided by the system vendor. Contractor shall contact the owner's vendor and schedule the work so as to complete system installation and testing prior to occupancy of the facility.

- E. Terminate each conduit stub-up or termination with nylon insulated bushing.

SECTION C16597
TELEPHONE SERVICE

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. Furnish and install telephone system consisting of empty conduits, junction boxes, outlet boxes, device plates, etc., as specified and shown on owner selected vendor wiring schematics. Cable, equipment, and installation of the interior system will be provided by the owner's system vendor.

- B. Provide underground PVC, Schedule 40, service conduit as required by plans.

- C. Telephone Utility Company will provide service entrance cable.

- D. Interior telephone system will be furnished by owner's vendor.

- E. Special backboxes (unless otherwise noted) and faceplates will be furnished by the owner's vendor.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Provide 4-11/16" square boxes, with plaster rings. Provide device plates for telephone outlets to match those specified in wiring device section. Provide separate conduit to nearest accessible ceiling space from each outlet.

- B. Minimum conduit size shall be 3/4".

- C. Provide lightning arrester for telephone service entrance at main telephone backboard in accordance with UL96A paragraph 11.2 and NFPA 780.

- D. Cable shall be in conduit where installed in walls or above inaccessible ceiling spaces.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Provide one #10 equivalent nylon pull wire in each empty telephone conduit.

- B. Provide trenching, backfilling, etc., for installation of service entrance conduit in accordance with other divisions, plans, and telephone utility requirements. Provide pull wire in empty conduit.

- C. Coordinate with the local utility for point of service and type of service required. Pay for any utility company charges and fees for establishment of service.

- D. Provide a complete raceway system in accordance with telephone utility company and interior system vendor/utility requirements. Telephone utility company and interior system vendor shall review the drawings. Contractor shall provide for any additional or varying requirements.

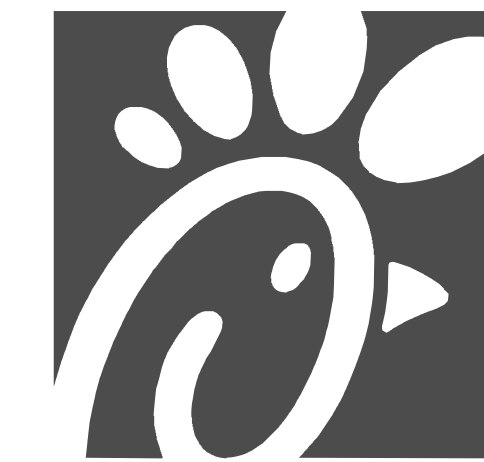
- E. Terminate each conduit stub-up or termination with nylon insulated bushings.

- F. Final connections and testing of system will be provided by the system vendor. Contractor shall contact the owner and vendor and schedule the work.

CLOSE OUT DOCUMENT REQUIREMENTS

Provide the following to the building owner upon completion of construction:

- 1. Submittal data stating equipment rating and selected options for each piece of equipment requiring maintenance.
- 2. Operation manuals and maintenance manuals for each piece of equipment requiring maintenance. Required routine maintenance actions shall be clearly identified.
- 3. Names and addresses of at least one qualified service agency.
- 4. A complete narrative of how each system is intended to operate.



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



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



02/02/24

CHICK-FIL-A
HULL STREET AT
1280 BRIDGEWOOD CROSSINGS
DRIVE
MIDLOTHIAN, VA 23112

FSR#05416

BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.02

PRINTED FOR
CONSTRUCTION

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
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CONSULTANT PROJECT # 23141.EH.S
DATE 09/15/2023

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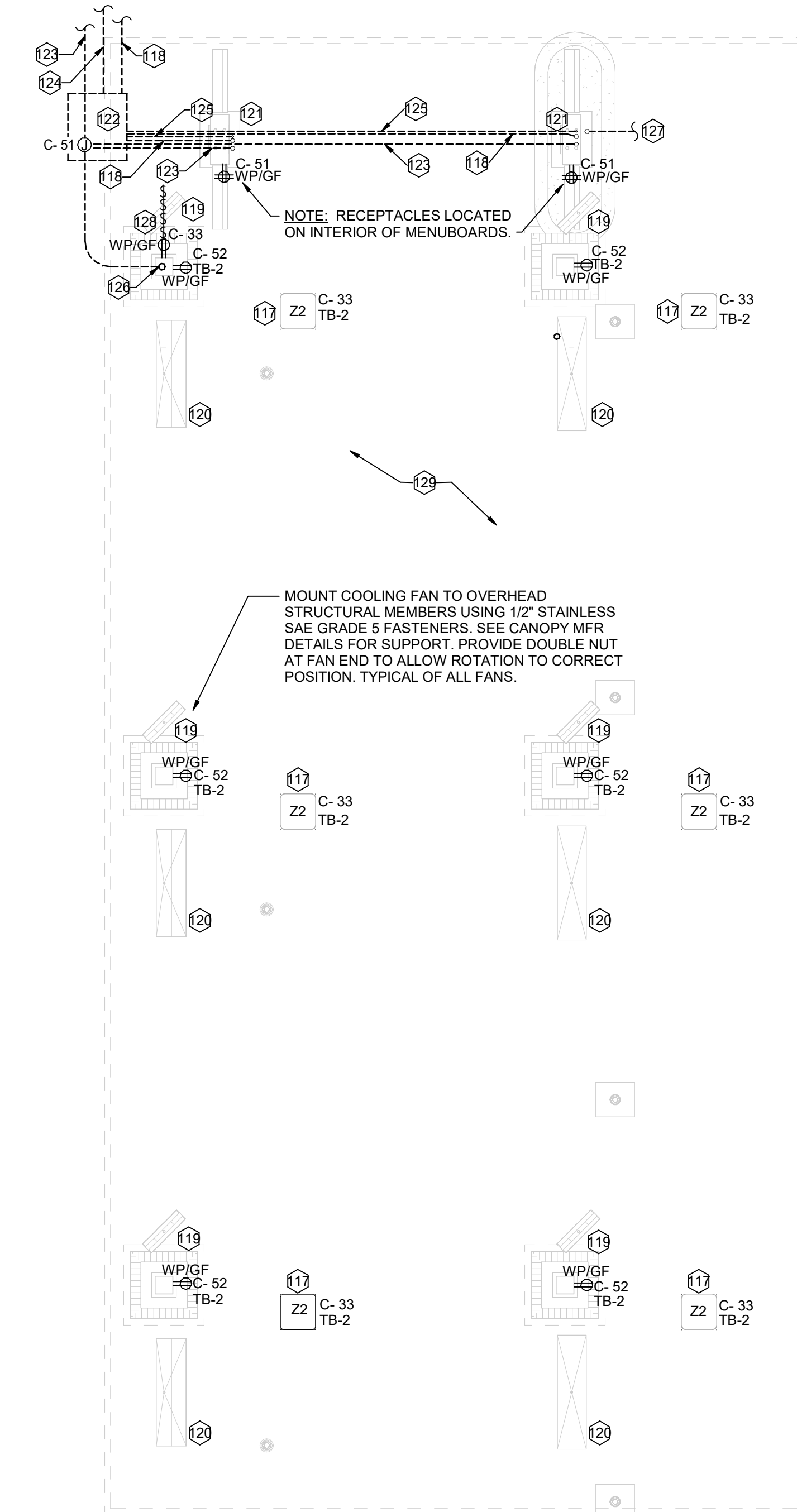
ELECTRICAL SPECIFICATIONS

SHEET NUMBER

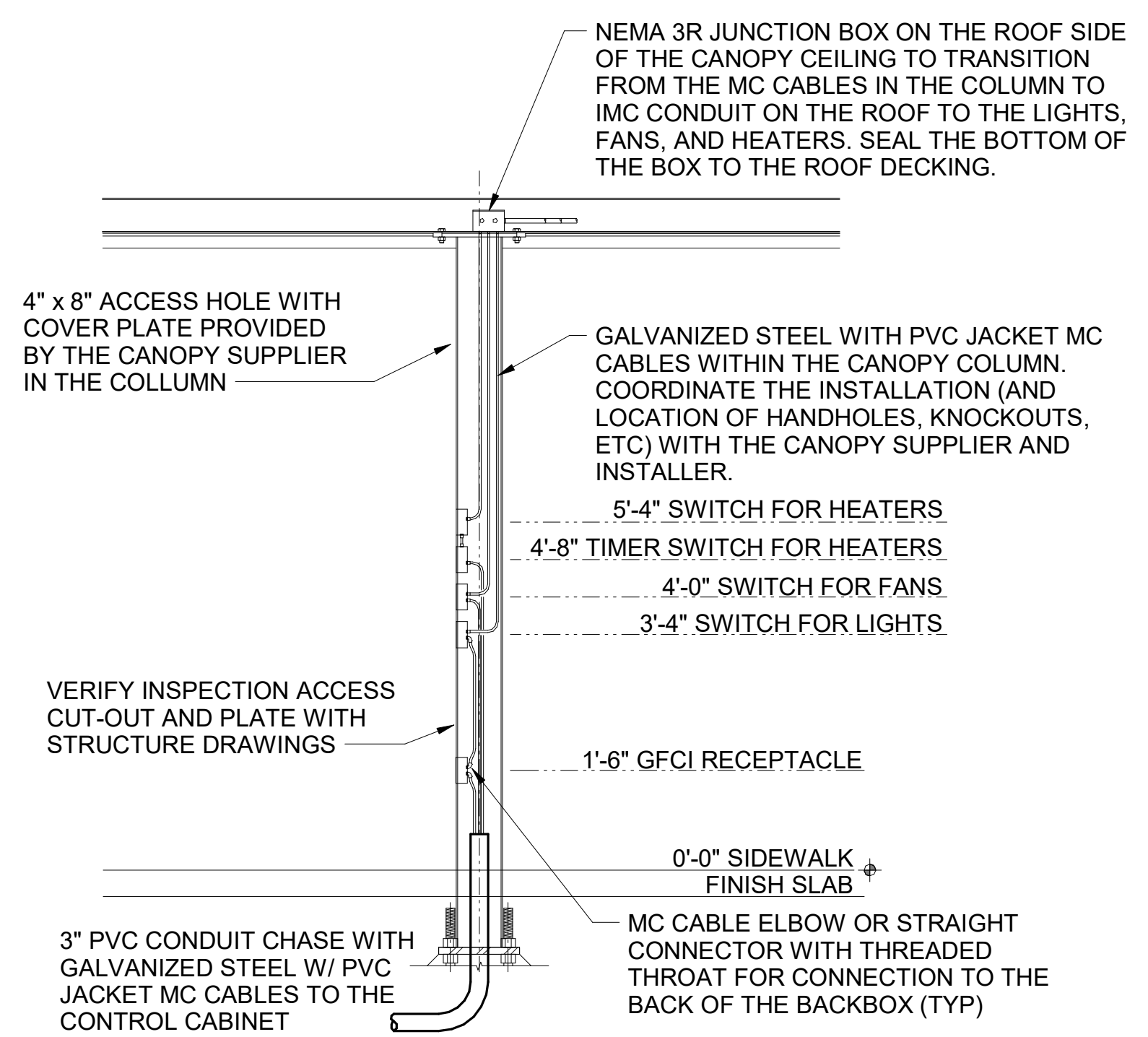
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ELECTRICAL KEYNOTES

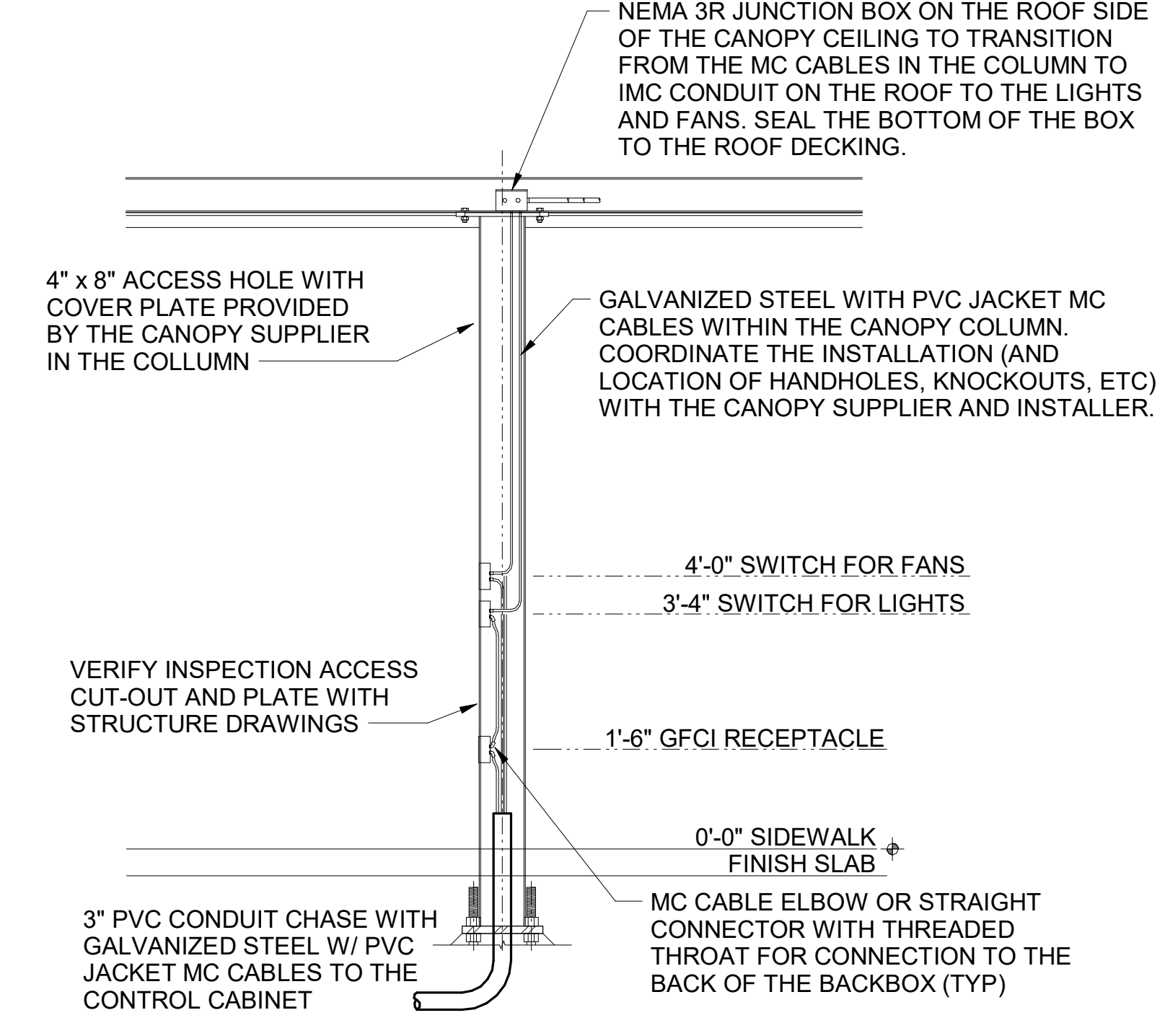
- 117 CEILING LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY E.C.
- 118 (2) 2" UNDERGROUND SCH40 PVC CONDUIT FOR MENU BOARD FIBER. PROVIDE PULL STRING. STUB UP INTO ACCESSIBLE CEILING SPACE AT DTT CLOSET OR OFFICE IF NO DTT CLOSET.
- 119 AIR CIRCULATING FAN (WITH INTEGRAL ON-OFF SWITCH) PROVIDED BY OTHERS. PROVIDE A DUPLEX OUTLET (WITH IN-USE COVER PLATE) FLUSH MOUNTED IN CUT-OUT AT TOP OF COLUMN FOR FAN'S PLUG AND CORD. OUTLET TO BE ON DOWNSTREAM SIDE OF COLUMN AND AWAY FROM ONCOMING VEHICLES' VIEW.
- 120 INFRARED GAS HEATER WITH INTEGRAL ON-OFF SWITCH PROVIDED BY OTHERS.
- 121 MENUBOARD PROVIDED BY OTHERS.
- 122 PROVIDE IN-GROUND QUAZITE PULLBOX FOR MLOP DATA CABLES WITH POWER NEMA 3R JUNCTION BOX MOUNTED INSIDE THE PULLBOX.
- 123 2" UNDERGROUND SCH40 PVC CONDUIT WITH POWER CIRCUITS. SEE WIRING SCHEMATIC.
- 124 2" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR OWNER'S DETECTOR LOOP CABLES. EXTEND CONDUITS UP INTO ACCESSIBLE CEILING SPACE ABOVE THE HME BOX IN THE DRIVE THRU AREA.
- 125 1" EMPTY UNDERGROUND SCH40 PVC CONDUIT FOR OWNER'S AUDIO SYSTEM/DETECTOR LOOP CABLES.
- 126 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.
- 127 2" CONDUIT FROM DRIVE-THRU MENU BOARD TO DUMPSTER ENCLOSURE ROOM FOR WIFI AND CAMERA CABLES.
- 128 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 B12 PLATES TO BE FIELD PAINTED MATTE BLACK.
- 129 ALL CONDUIT AND BOXES SHALL BE CONCEALED FROM NORMAL VIEW; UNDERGROUND, IN COLUMNS, OR ABOVE THE CANOPY (ON THE ROOF). MC CABLE (GALVANIZED STEEL WITH PVC JACKET) TO BE USED INSIDE THE COLUMNS, BUT MUST CONVERT BACK TO IMC ABOVE THE ROOF. REFER TO THE MECHANICAL DRAWINGS FOR LOCATIONS OF GAS PIPING ABOVE THE ROOF AND INSTALL CONDUIT ALONG THE SAME LOCATIONS USING THE SAME PIPE STAND FOR PIPING AND CONDUIT. ALL EXPOSED ELECTRICAL BOXES TO BE NEMA 3R CAST-METAL.



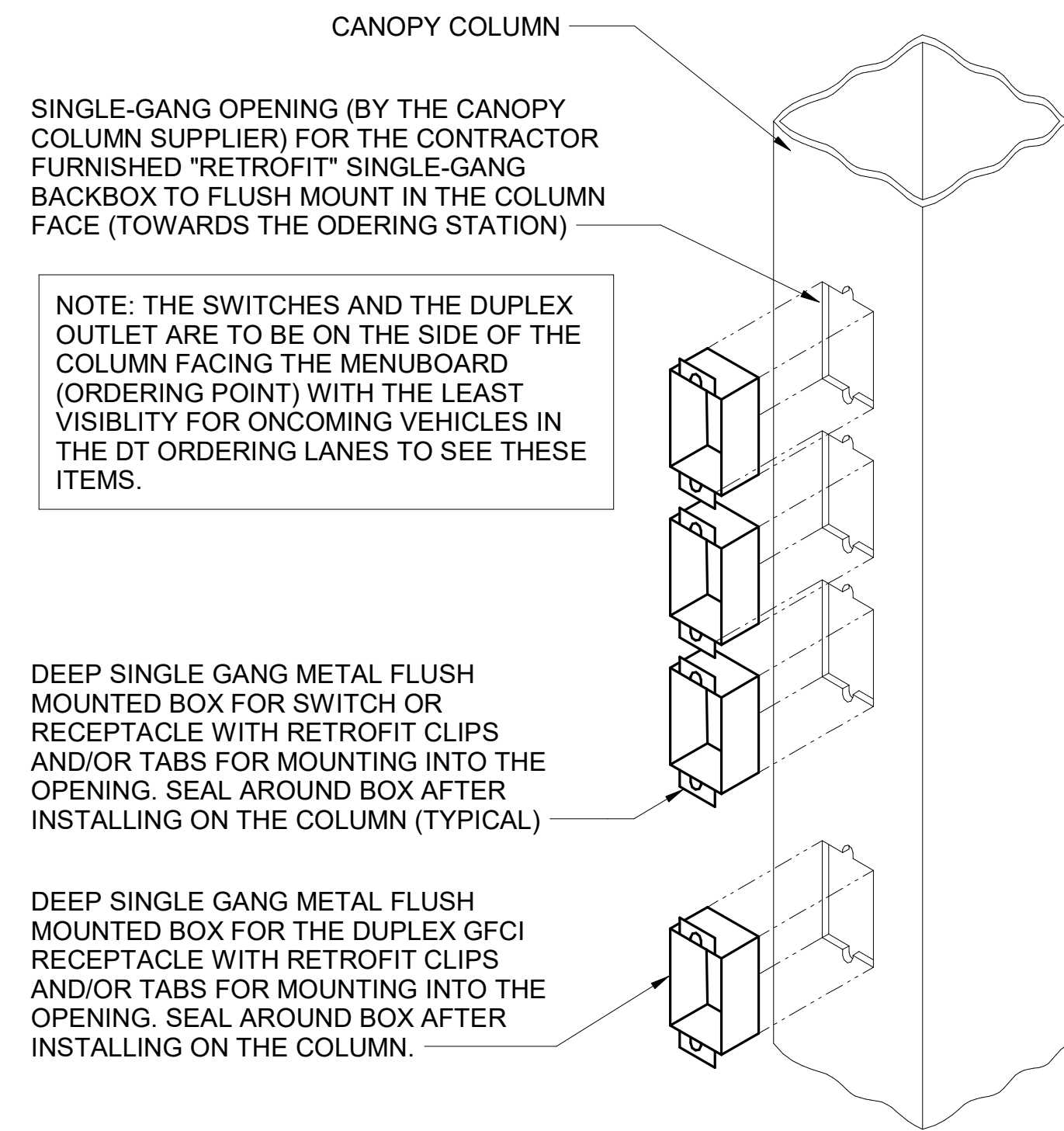
A3 MLOP ORDER CANOPY POWER PLAN
1/4" = 1'-0"



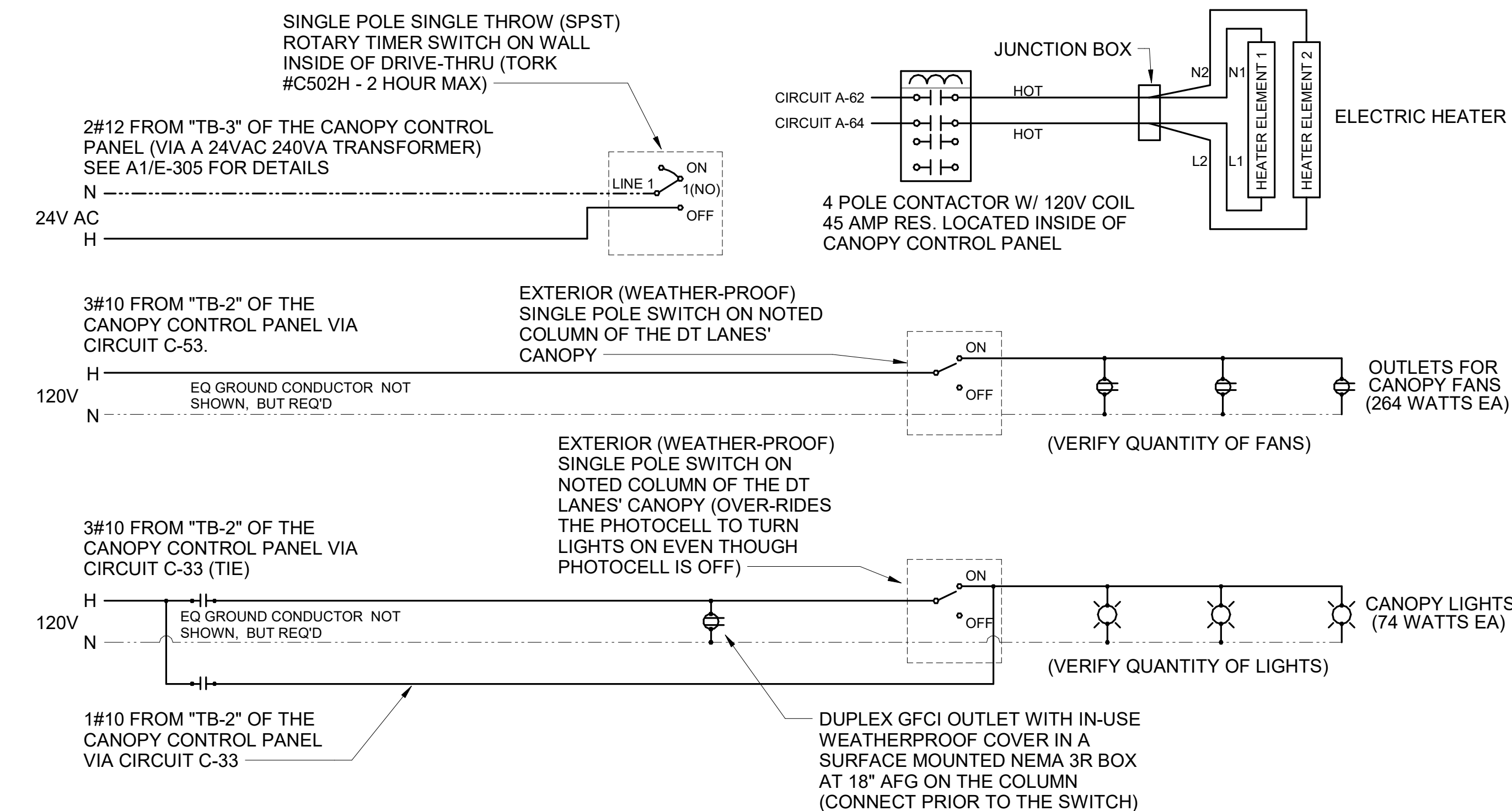
D2 MLOP ORDER CANOPY COLUMN SECTION
N.T.S.



D1 MEAL DELIVERY CANOPY COLUMN SECTION
N.T.S.



C3 CANOPY COLUMN ISOMETRIC
N.T.S.

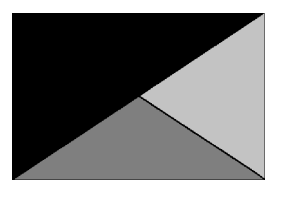


A1 MEAL DELIVERY CANOPY POWER WIRING SCHEMATIC
N.T.S.



Chick-fil-A

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03/26/24

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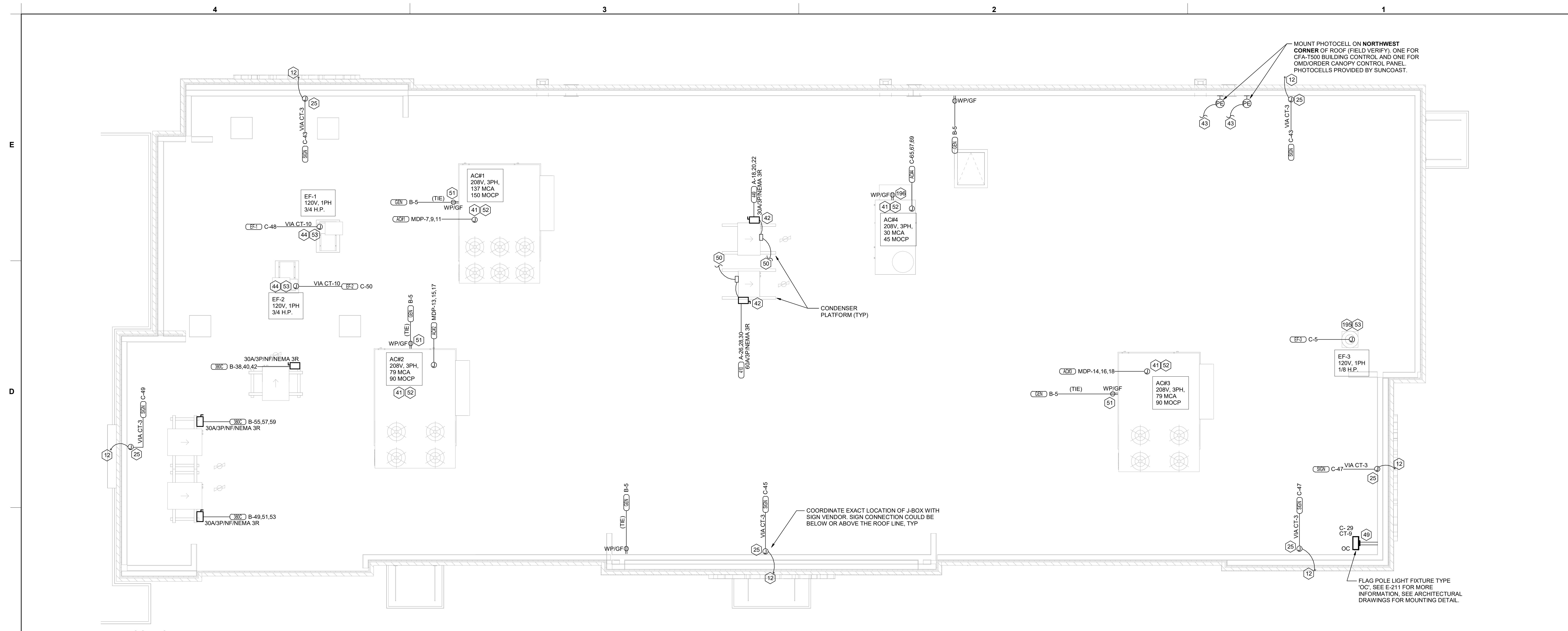
FSR#05416

BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.02
PRINTED FOR:
CONSTRUCTION

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 23141.EH.S
DATE 09/15/2023
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ORDER CANOPY PLAN AND DETAILS
SHEET NUMBER

E-304



C1 ROOF POWER PLAN
1/4" = 1'-0"

ELECTRICAL KEYNOTES

- 12 FOR SIGNAGE BY OTHERS; CONNECT AS REQUIRED. GROUND ALL LOCATIONS IN ACCORDANCE WITH NEC AND MANUFACTURER'S REQUIREMENTS. SIGN IS FURNISHED WITH AN INTEGRAL PRE-WIRED DISCONNECTING MEANS.
- 25 ROUTE THROUGH CONTROL PANEL CFA-T500 AND CONTROLLED BY OCCUPIED SWITCH AND PHOTOCELL.
- 41 ROUTE ELECTRICAL CONDUITS TO UNIT CONNECTIONS THROUGH WEATHERPROOF RACEWAY FURNISHED WITH UNIT. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS.
- 42 MOUNT WEATHER-PROOF FUSED DISCONNECT SWITCHES FOR WIC AND WIF CONDENSERS ON UNISTRUT WITH CONDUIT DOWN INTO CEILING SPACE BELOW THRU ROOF PENETRATION DETAIL(S) (NOT THRU ROOF). SEE THE ARCHITECTURAL ROOF PENETRATION DETAIL(S) FOR FURTHER INFORMATION. PROVIDE FUSE SIZE PER MANUFACTURER REQUIREMENTS.
- 43 CONNECT ONE PHOTOCELL ON ROOF TO THE CFA-T500 CONTROL PANEL TERMINALS AND ONE PHOTOCELL ON ROOF TO THE ORDER/OMD CANOPY CONTROL PANEL AS DIRECTED BY SUNCOAST ENVIRONMENTAL INC WIRING DIAGRAMS. PHOTOCELLS ON THE ROOF FURNISHED WITH CONTROL PANELS ORDER (SUNCOAST) AND INSTALLED BY CONTRACTOR.
- 44 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 1/4" DIAMETER LOOP IN THE FLEXIBLE CONDUIT BETWEEN THE ROOF AND THE FAN ELECTRICAL CONNECTION.
- 49 MOUNT TYPE 'OC' LIGHTING FIXTURE, WITH INTEGRAL SLIPFITTER, ON PIPE. PIPE WILL BE PROVIDED BY OTHER TRADES. AIM LIGHTING FIXTURE AT NIGHT FOR BEST ILLUMINATION OF FLAG.
- 50 CONNECT POWER FROM EACH CONDENSING UNIT'S COMPRESSOR CONTACTOR TO THE EVAPORATOR COIL UNIT'S JUNCTION BOX BELOW. REFER TO ENLARGED KITCHEN POWER PLAN FOR LOCATION.
- 51 CONTRACTOR SHALL PROVIDE POWER TO CONVIENCE RECEPTACLE SUPPLIED WITH THE AC UNIT.
- 52 A/C UNIT DISCONNECT IS FURNISHED WITH A/C UNIT AND SHALL BE CONNECTED BY THE CONTRACTOR.
- 53 EXHAUST FAN IS FURNISHED WITH A PREWIRED DISCONNECT.
- 195 COORDINATE EXACT LOCATION OF CONDUIT AND DISCONNECT AT EXHAUST FAN. CONDUIT SHALL BE ROUTED WITH DUCTWORK WITHIN FAN ROOF CURB AND TO THE FAN WIREWAY. PROVIDE SEALTIGHT FITTINGS AS THE CONDUIT ENTERS AND LEAVES THE DUCTWORK. CIRCUIT WITH RESTROOM LIGHTING AHEAD OF OCCUPANCY CONTROLS. REFER TO THE LIGHTING PLAN FOR CONTINUATION.
- 196 FACTORY PROVIDED CONVIENCE RECEPTACLE AND UNIT POWERED. PROVID WP (WHILE-IN-USE) COVERPLATE AS NEEDED.

POWER PLAN GENERAL NOTES

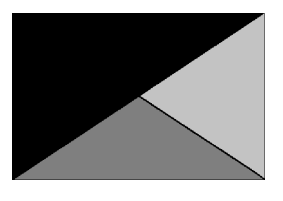
- A. ALL SECURITY, POS, MUSIC, COMMUNICATIONS, AND POWER ROUGH-IN SHALL BE INSTALLED DURING THE FRAMING/ROUGH-IN PHASE OF CONSTRUCTION.
- B. REFER TO KITCHEN EQUIPMENT SHEETS FOR EQUIPMENT ELECTRICAL ROUGH-IN ELEVATIONS ABOVE FINISHED FLOOR.
- C. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
- D. PROVIDE INSULATED BUSHING AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.
- E. THE ELECTRICAL INSTALLER SHALL COORDINATE THE ROUTING OF ALL CONDUIT IN THE BUILDING WITH OTHER TRADES (SPECIFICALLY THE DUCTWORK INSTALLATION) TO AVOID CONFLICTS OF SPACE REQUIREMENTS IN WALLS AND CEILING SPACES.

NOTE: REFER TO MECHANICAL DRAWINGS FOR ROOFTOP PACKAGED AC UNIT SCHEDULE. ALL UNITS ARE FURNISHED WITH FACTORY INSTALLED DISCONNECT SWITCH. REFER TO SAME SCHEDULE FOR INDICATION OF UNITS FURNISHED WITH FACTORY RECEPTACLE FOR COMPLIANCE WITH NEC.



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02/02/24

CHICK-FIL-A
HULL STREET AT
12280 BRIDGEWOOD CROSSINGS
DRIVE
MIDLOTHIAN, VA 23112

FSR#05416

BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.02

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REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 23141.EH.S
DATE 09/15/2023

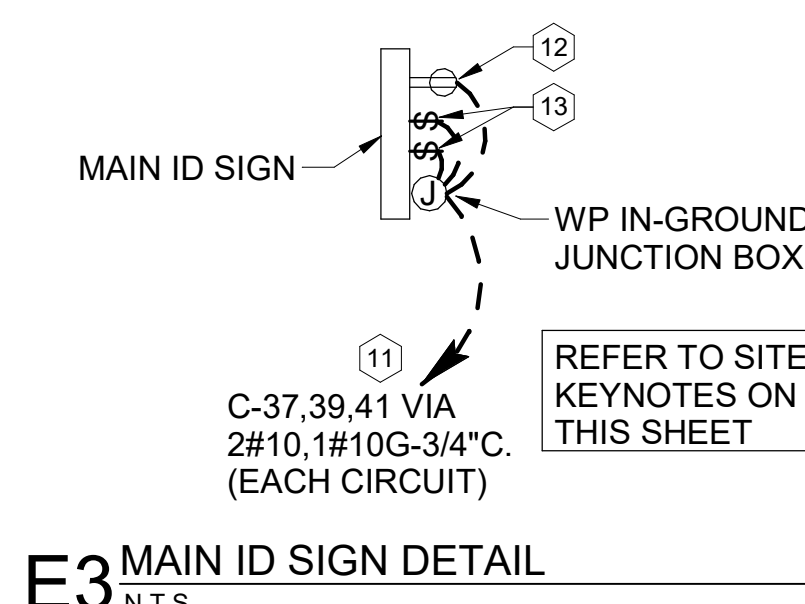
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ROOF POWER PLAN

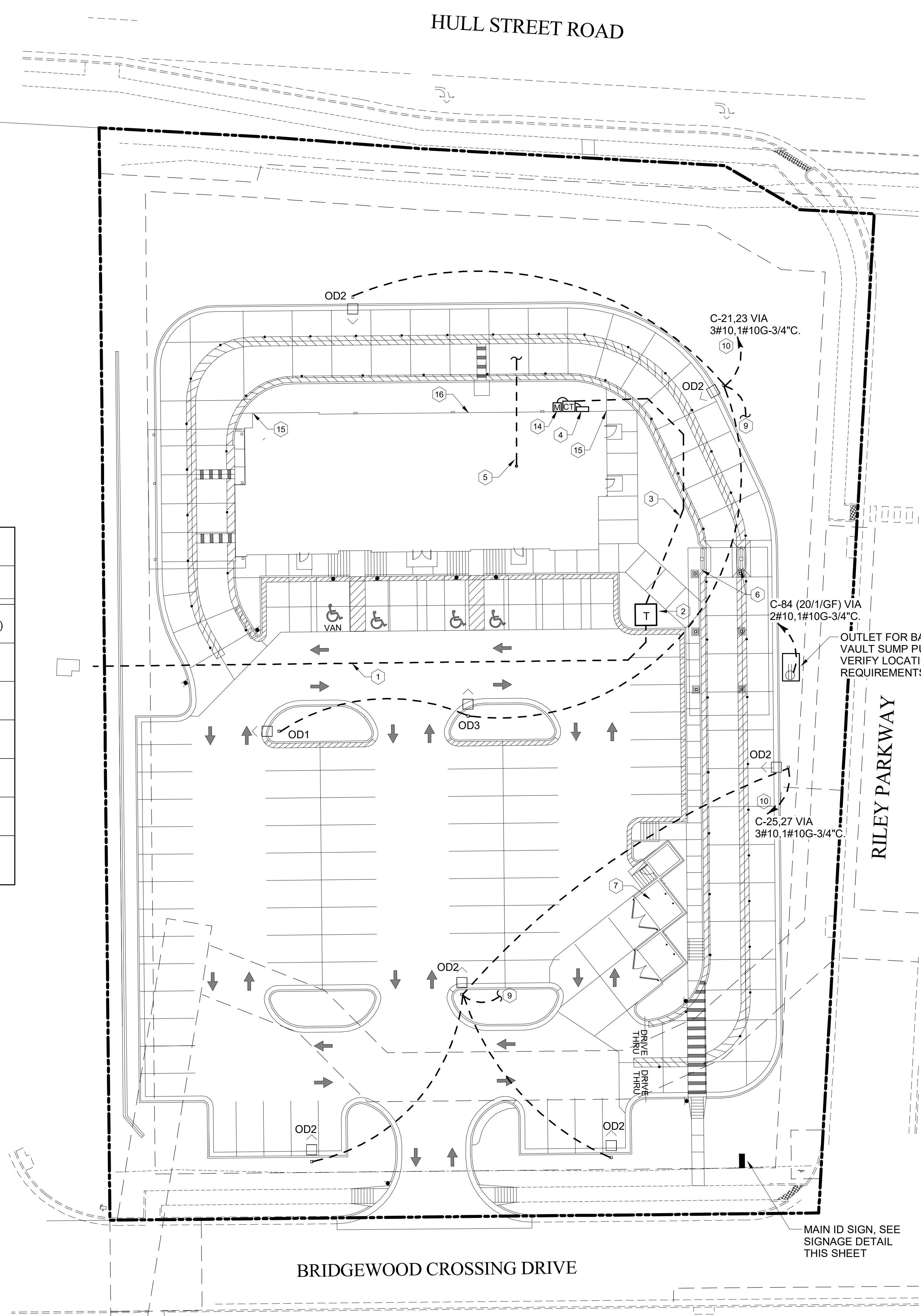
SHEET NUMBER
E-250

ELECTRICAL SITE PLAN KEYNOTES

- 1 FIELD COORDINATE LOCATION OF PRIMARY UNDERGROUND ELECTRICAL UTILITY LINES: PROVIDE THREE 4" SCH. 40 PVC CONDUIT TO UTILITY SOURCE, AT MINIMUM 36" BELOW FINISHED GRADE AND IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. COORDINATE ALL REQUIREMENTS WITH THE UTILITY COMPANY PRIOR TO BID.
- 2 PROPOSED LOCATION OF PAD MOUNTED TRANSFORMER FURNISHED BY THE ELECTRICAL UTILITY COMPANY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONCRETE PAD FOR IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.
- 3 FIELD COORDINATE LOCATION OF SECONDARY UNDERGROUND ELECTRICAL UTILITY LINES: PROVIDE SECONDARY SERVICE LATERAL FROM UTILITY TRANSFORMER TO PANEL MDP VIA THE CURRENT TRANSFORMER CABINET. SEE SHEET E-502, "SINGLE-LINE DIAGRAM". REFER TO "ELECTRICAL SERVICE LATERAL CONDUIT DETAIL", SHEET E-101, FOR ADDITIONAL INFORMATION.
- 4 LOCATION OF TERMINATION OF SECONDARY SERVICE LATERAL AT PANEL MDP: REFER TO "SINGLE-LINE DIAGRAM" ON SHEET E-502 FOR ADDITIONAL INFORMATION.
- 5 A. PROVIDE TWO 2" SCH. 40 PVC CONDUIT (ONE IS A SPARE), MINIMUM 24" BELOW FINISHED GRADE, FOR TELEPHONE SERVICE FROM TELEPHONE UTILITY SOURCE TO JUNCTION BOX INSIDE THE BUILDING. REFER TO SHEET E-302 FOR LOCATION OF JUNCTION BOX IN SERVICE AREA. REFER TO "TELEPHONE SERVICE CONDUIT DETAIL", SHEET E-101, FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION OF UTILITY SOURCE WITH TELEPHONE UTILITY. TERMINATE CONDUITS AT UTILITY SOURCE AS REQUIRED BY THE UTILITY COMPANY.
B. PROVIDE ONE 3" SCH. 40 PVC CONDUIT, MINIMUM 24" BELOW FINISHED GRADE, FOR ISP SERVICE FROM UTILITY SOURCE TO JUNCTION BOX INSIDE THE BUILDING. REFER TO SHEET E-302 FOR LOCATION OF JUNCTION BOX IN BUILDING. REFER TO "TELEPHONE SERVICE CONDUIT DETAIL", SHEET E-101, FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION OF UTILITY SOURCE WITH SERVICE SUPPLY COMPANY. TERMINATE CONDUITS AT AS REQUIRED BY THE UTILITY COMPANY.
- 6 REFER TO SHEET E-303 AND E-304 FOR ELECTRICAL REQUIREMENTS AT MENU BOARDS AND DRIVE-THRU CANOPY.
- 7 LOCATION OF DUMPSTER. REFER TO "REFUSE ENCLOSURE PLAN - ELECTRICAL", SHEET E-303 FOR ELECTRICAL REQUIREMENTS IN THIS AREA.
- 8 NOT USED.
- 9 PROVIDE UNDERGROUND CONDUIT TO LOCATION WITHIN THE BUILDING FOR POLE MOUNTED SECURITY CAMERA. REFER TO SHEET E-302 FOR LOCATION OF CONDUIT STUB-UP AND REQUIRED SIZE OF CONDUIT. COORDINATE EXACT CAMERA LOCATION WITH CHICK-FIL-A SECURITY SYSTEM REPRESENTATIVE PRIOR TO ROUGH-IN.
- 10 CONNECT AREA LIGHTING CIRCUITS TO TERMINAL BLOCKS LOCATED IN THE "CFA-T500" CONTROL PANEL (TYPICAL). SEE PANEL SCHEDULES ON SHEET E-501.
- 11 CONNECT SITE SIGNAGE CIRCUITS TO TERMINAL BLOCKS LOCATED IN THE "CFA-T500" CONTROL PANEL (TYPICAL). SEE PANEL SCHEDULES ON SHEET E-501. COORDINATE LOCATIONS OF ALL SIGNS WITH CHICK-FIL-A SIGNAGE PLANS PRIOR TO BID AND PRIOR TO CONDUIT INSTALLATION.
- 12 PROVIDE GFCI TYPE WEATHERPROOF RECEPTACLE MOUNTED ON MAIN SIGN SUPPORT +14" AFG.
- 13 PROVIDE WEATHERPROOF 20A SPST TOGGLE SWITCH 18" AFG AND CONNECTION TO MAINTENANCE DISCONNECT SWITCH FOR MAIN I.D. SIGN.
- 14 PROPOSED LOCATION OF BUILDING MOUNTED ELECTRICAL UTILITY METER. METER BASE WILL BE FURNISHED BY THE UTILITY COMPANY AND INSTALLED BY THE CONTRACTOR. THE CURRENT TRANSFORMER CABINET SHALL BE FURNISHED AND INSTALLED ON THE BUILDING BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO FURNISH AND INSTALL A 1-1/4" RIGID GALVANIZED CONDUIT BETWEEN METER BASE AND CURRENT TRANSFORMER CABINET. COORDINATE LOCATIONS AND REQUIREMENTS WITH ELECTRIC UTILITY COMPANY PRIOR TO BID.
- 15 LOCATION OF A 360 DEGREE BUILDING MOUNTED EXTERIOR CAMERA (BY OTHERS). PROVIDE A 3/4" CONDUIT AT 9'-4" AFF TO AN EXTERIOR WALL MOUNTED WP JUNCTION BOX WITH THE CONDUIT ABOVE THE INTERIOR CEILING AND EXTENDED TO AN ACCESSIBLE CEILING AREA FOR CAMERA CABLES BY OTHERS.
- 16 PROVIDE AN EXTERIOR DUPLEX 120V, 20A RECEPTACLE AT 18" AFF WITH 'IN-USE' STYLE LOCKABLE WP COVER AND CONNECT TO A GENERAL PURPOSE 120V RECEPTACLE CIRCUIT.



ELECTRICAL SITE PLAN SYMBOLS	
SYMBOL	DESCRIPTION (UNLESS OTHERWISE NOTED ON PLANS)
T	UTILITY COMPANY TRANSFORMER, (208 VOLT, 3 PHASE, 4 WIRE SECONDARY)
\$	S.P.S.T. LIGHT SWITCH (600V AC QUIET TYPE)
GF	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE
→	CONDUIT HOMERUN TO PANEL
J	JUNCTION BOX (SINGLE GANG STEEL WHERE WALL MOUNTED, 4" SQ. STEEL WHERE CEILING MOUNTED, UNLESS NOTED OTHERWISE)
---	CONDUIT BURIED BELOW GRADE
⬆	POLE MOUNTED SITE LIGHTING FIXTURE. CHEVRON INDICATES DIRECTION OF PRIMARY LIGHT DISTRIBUTION.

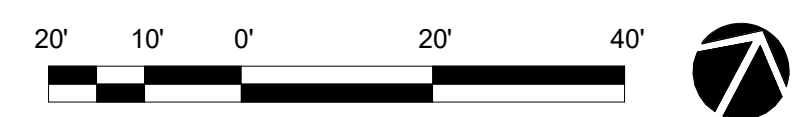


GENERAL ELECTRICAL SITE PLAN NOTES

- A. VERIFY WITH LOCAL AUTHORITIES AND UTILITIES THAT OWNER'S SIGNS, POLES, AND THEIR APPURTENANCES ARE NOT LOCATED ON OR OVER ANY EASEMENT OR MUNICIPAL RIGHT OF WAY.
- B. SITE WORK, UTILITY, AND ROADWAY INFORMATION ARE TAKEN FROM BOUNDARY AND TOPO SURVEY SITE PLANS. REFER TO C-DRAWINGS.
- C. MINIMUM CONDUIT SIZE SHALL BE 3/4" C. MINIMUM CONDUCTOR SIZE SHALL BE #10AWG COPPER UNLESS OTHERWISE NOTED.
- D. REFER TO BUILDING ELECTRICAL DRAWINGS FOR EXTERIOR LIGHTING CONTROL.
- E. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ONLY NEW AND U.L. LABELED ELECTRICAL EQUIPMENT, UNLESS INDICATED OTHERWISE BY THE CONTRACT DOCUMENTS.
- F. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL CONTACT ALL UTILITIES FOR VERIFICATION AND IDENTIFICATION OF ALL UNDERGROUND RUNS, PRIOR TO SITE TRENCHING ("CALL BEFORE YOU DIG").
- G. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (NFPA 70), AND THE LIFE SAFETY CODE (NFPA 101), AS ADOPTED AND/OR AMENDED BY STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
- H. FOR WORK UNDER THIS DIVISION, ELECTRICAL CONTRACTOR SHALL COORDINATE AND FIELD VERIFY LOCATIONS OF ALL UTILITY SERVICE RUNS, ORIGINATIONS, TERMINATIONS AND ANY INSTALLATION REQUIREMENTS (i.e. ELECTRICAL, TELEPHONE, WATER, GAS, SEWAGE, ETC.), AS RELATED TO THIS JOB, OR THEREBY EFFECTED.
- I. REFER TO SHEETS E-901, & E-902 FOR ELECTRICAL SPECIFICATIONS PERTAINING TO ELECTRICAL WORK DESCRIBED ON THIS SHEET.
- J. REFER TO SHEET E-102 FOR AREA LIGHTING FIXTURE SCHEDULE AND SHEET E-211 FOR BUILDING LIGHTING FIXTURE SCHEDULE.

POWER/TELEPHONE UTILITIES:	
COORDINATE AND COMPLY WITH ALL TELEPHONE AND ELECTRICAL UTILITY REQUIREMENTS. THE FOLLOWING PERSONS SHALL BE CONTACTED FOR SPECIFIC UTILITY COMPANY REQUIREMENTS:	
ELECTRICAL UTILITY:	MR. GORDON MILLER DOMINION ENERGY - VIRGINIA 804-316-4116 GORDON.MILLER@DOMINIONENERGY.COM
TELEPHONE UTILITY:	MR. BILL CRUM COMCAST BUSINESS 804-283-0670 WILLIAM_CRUM@COMCAST.COM

SIGNAGE NOTE
THE ELECTRICAL SUBCONTRACTOR SHALL INCLUDE THE ELECTRICAL ROUGH-IN AND FINAL CONNECTIONS OF ALL SIGNAGE (BUILDING MOUNTED AND GROUND MOUNTED ON THE SITE) IN HIS SCOPE OF WORK AND UNDER HIS LOCAL CODE PERMITTING PROCESS. PROVIDE A COPY OF THE PERMIT (WHICH SPECIFICALLY INCLUDES THE SIGNAGE) TO THE SIGN VENDOR IN ORDER TO EXPEDITE THE SIGN VENDOR'S PERMIT PROCESS.



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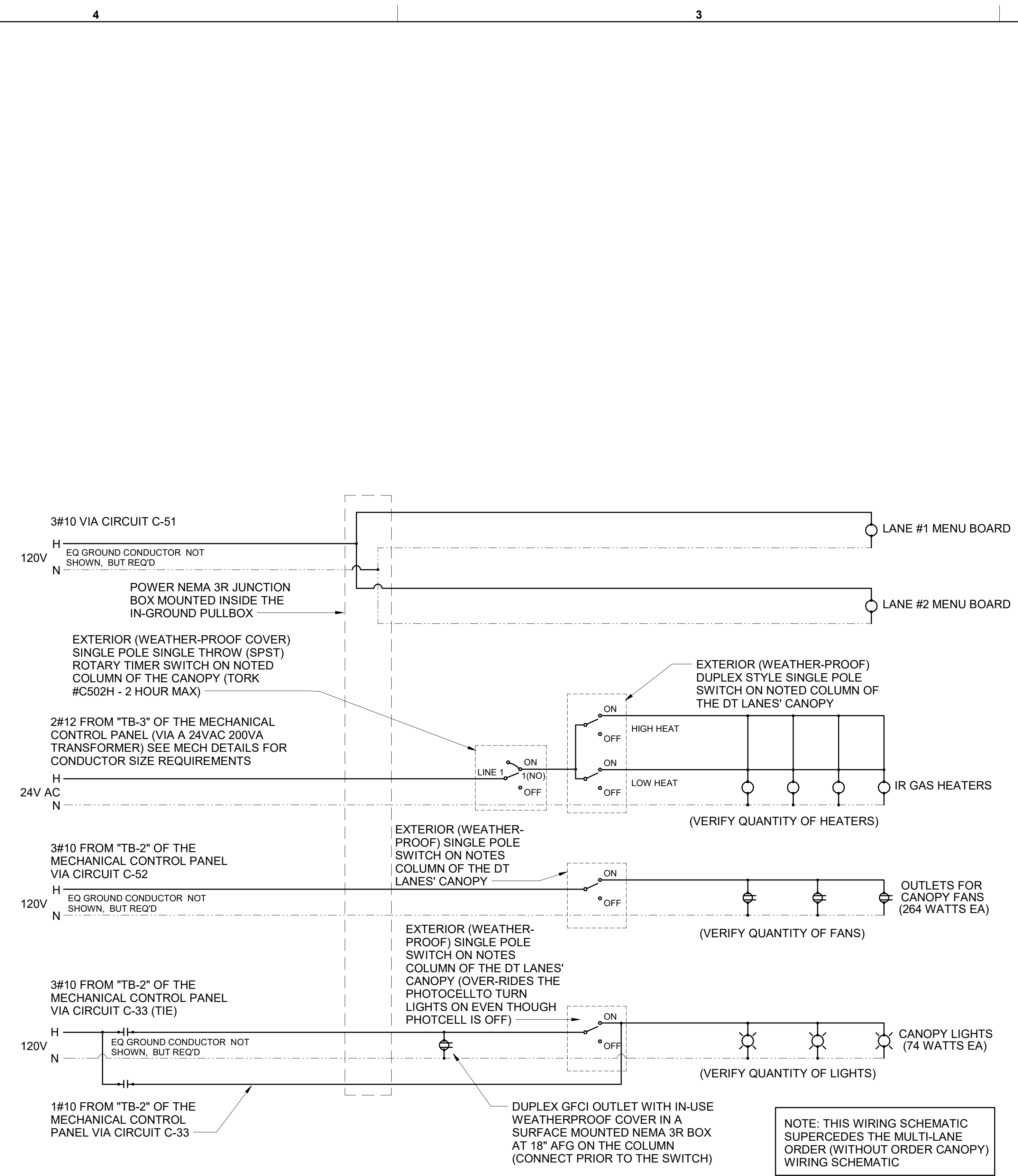
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12280 BRIDGEWOOD CROSSINGS
DRIVE
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FSR#05416

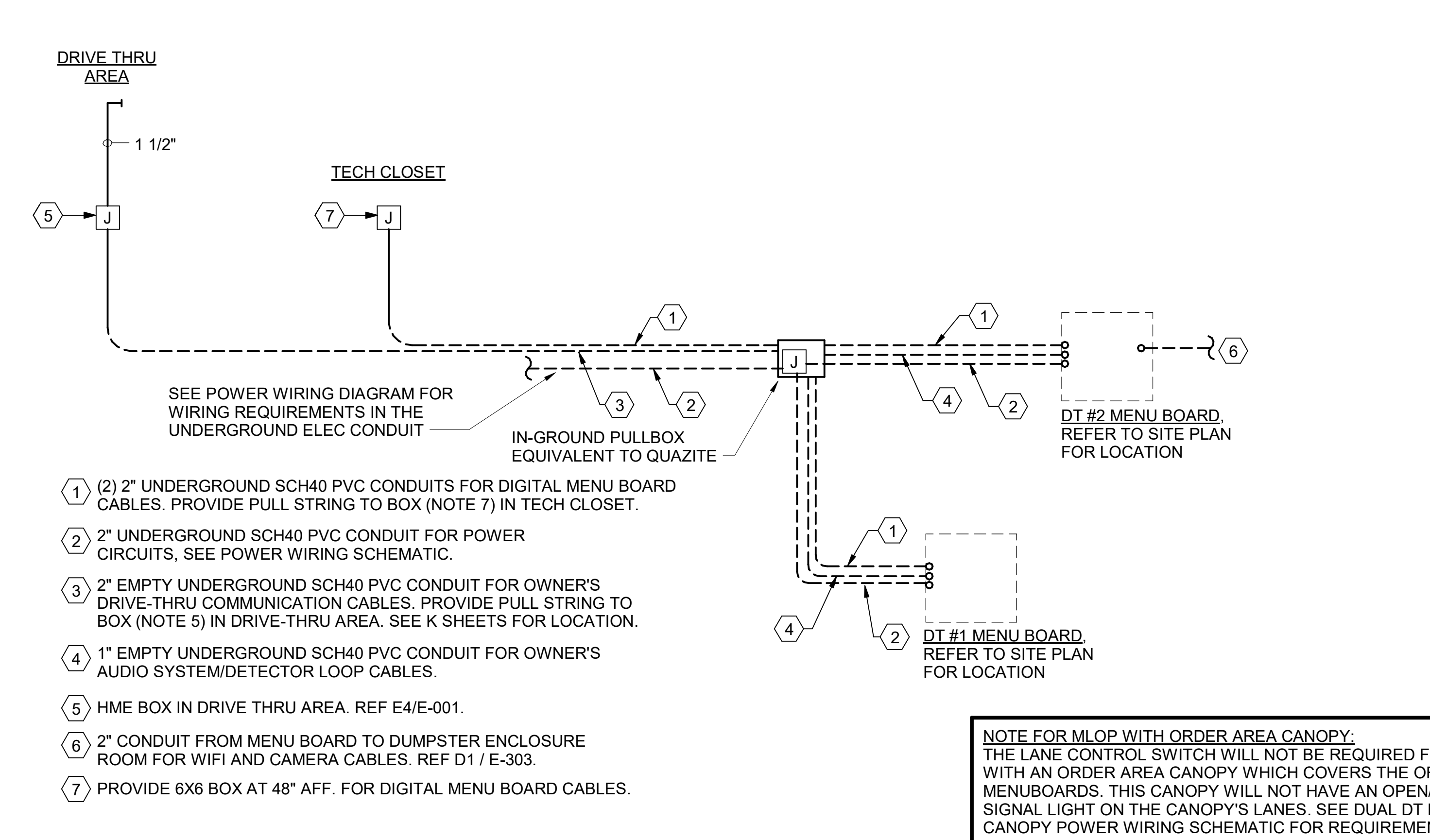
BUILDING TYPE / SIZE: P14 LE
RELEASE:
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SHEET
ELECTRICAL SITE PLAN

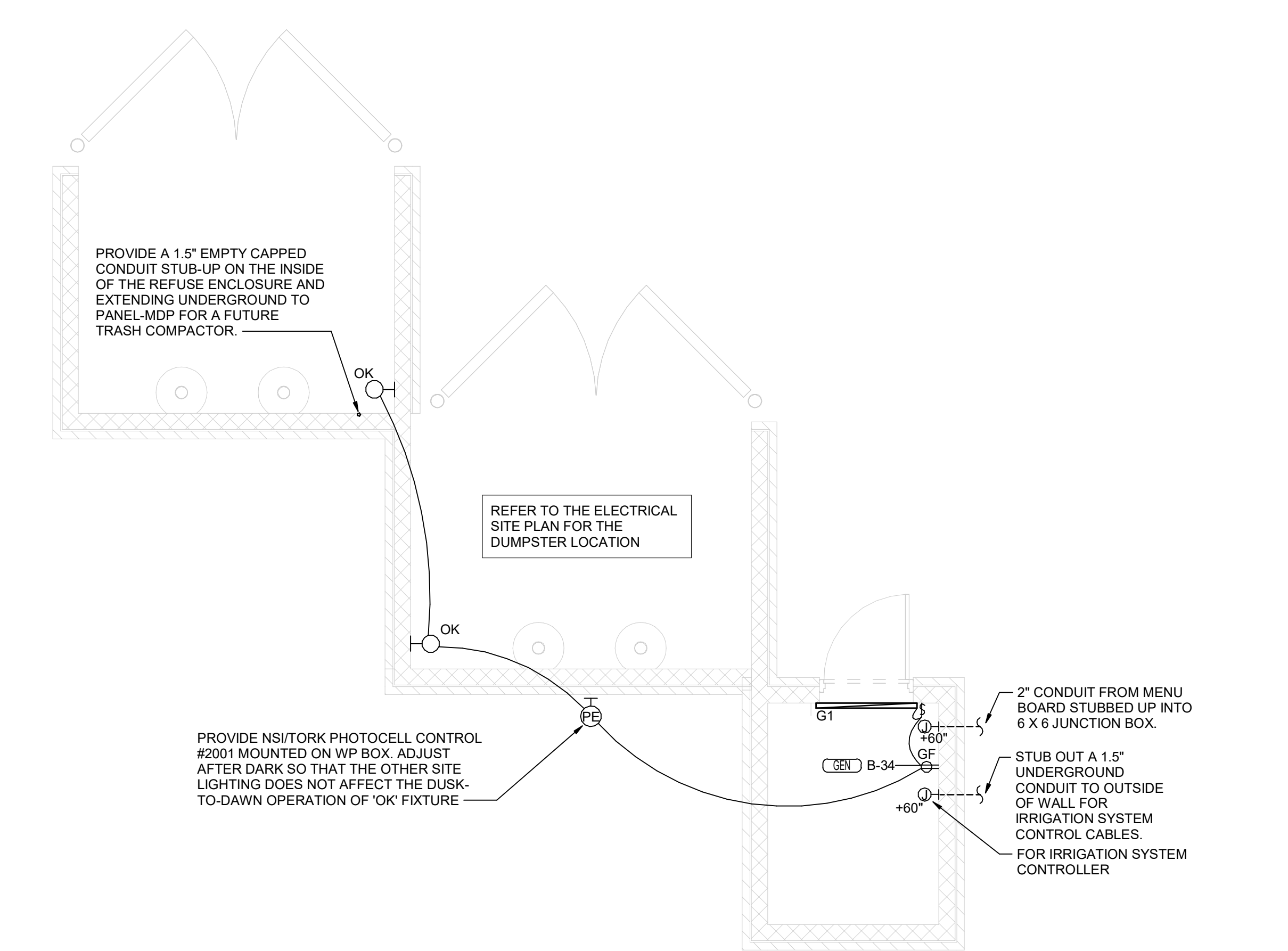
SHEET NUMBER
E-100



B3 MULTI-LANE ORDER CANOPY POWER WIRING SCHEMATIC
N.T.S.



A3 MLOP DT REQUIREMENTS - WITH ORDER AREA F2F CANOPY
NO SCALE



D1 REFUSE ENCLOSURE ELECTRICAL PLAN
1/4" = 1'-0"



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 BUILDING TYPE / SIZE: P14 LE BN
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CONSTRUCTION

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 SHEET DT ORDERING AREA DETAILS & REFUSE ENCLOSURE PLAN
 SHEET NUMBER

E-303

Branch Panel: D1														
LOCATION: SUPPLY FROM: MDP MOUNTING: FLUSH ENCLOSURE: NEMA 1				VOLTS: 120/208 Wye PHASES: 3 WIRES: 4				A.I.C. SERIES RATING: 65K/10K MAINS TYPE: MLO MAINS RATING: 250 A						
NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT		
1	1	PRESSURE FRYER (523)	50 A	3	4.563	2.892		3	50 A	CHARRILL COOKER (524)	2	I		
--	3	--	--	--		4.563	3.384	--	--	--	4	--		
--	5	--	--	--				4.563	2.772	--	6	--		
1	7	PRESSURE FRYER (523)	50 A	3	4.563	2.892		3	50 A	CHARRILL COOKER (524)	8	I		
--	9	--	--	--		4.563	3.384	--	--	--	10	--		
--	11	--	--	--				4.563	2.772	--	12	--		
1	13	PRESSURE FRYER (523)	50 A	3	4.563	--		1	--	SPACE	14			
--	15	--	--	--		4.563	--	1	--	SPACE	16			
--	17	--	--	--			4.563	--	1	SPACE	18			
19	19	SPACE	--	1	--	--	--	1	--	SPACE	20			
21	21	SPACE	--	1	--	--	--	1	--	SPACE	22			
23	23	SPACE	--	1	--	--	--	1	--	SPACE	24			
25	25	SPACE	--	1	--	--	--	1	--	SPACE	26			
27	27	SPACE	--	1	--	--	--	1	--	SPACE	28			
29	29	SPACE	--	1	--	--	--	1	--	SPACE	30			
Total Load:			19.47 kVA			20.46 kVA			19.23 kVA					
Total Amps:			162.6 A			170.8 A			160.3 A					
Load Classification			Connected Load			Demand Factor			Estimated Demand			Panel Totals		
KITCHEN EQUIPMENT (100% DEMAND)			59166 VA			100.00%			59166 VA			Total Conn. Load: 59.2 kVA		
												Total Est. Demand: 59.2 kVA		
												Total Conn.: 164.2 A		
												Total Est. Demand: 164.2 A		

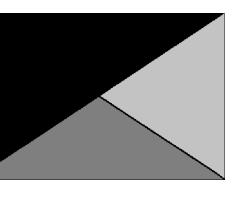
Branch Panel: D2														
LOCATION: SUPPLY FROM: MDP MOUNTING: FLUSH ENCLOSURE: NEMA 1				VOLTS: 120/208 Wye PHASES: 3 WIRES: 4				A.I.C. SERIES RATING: 65K/10K MAINS TYPE: MLO MAINS RATING: 250 A						
NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT		
SB	1	OPEN FRYER (522)	80 A	3	7.446	4.563		3	50 A	PRESSURE FRYER (523)	2	I		
--	3	--	--	--		7.446	4.563	--	--	--	4	--		
--	5	--	--	--			7.446	4.563	--	--	6	--		
SB	7	OPEN FRYER (522)	80 A	3	7.446	4.563		3	50 A	FUTURE FRYER (F523)	8	I		
--	9	--	--	--		7.446	4.563	--	--	--	10	--		
--	11	--	--	--			7.446	4.563	--	--	12	--		
13	13	SPACE	--	1	--	--	--	1	--	SPACE	14			
15	15	SPACE	--	1	--	--	--	1	--	SPACE	16			
17	17	SPACE	--	1	--	--	--	1	--	SPACE	18			
19	19	SPACE	--	1	--	--	--	1	--	SPACE	20			
21	21	SPACE	--	1	--	--	--	1	--	SPACE	22			
23	23	SPACE	--	1	--	--	--	1	--	SPACE	24			
25	25	SPACE	--	1	--	--	--	1	--	SPACE	26			
27	27	SPACE	--	1	--	--	--	1	--	SPACE	28			
29	29	SPACE	--	1	--	--	--	1	--	SPACE	30			
Total Load:			24.02 kVA			24.02 kVA			24.02 kVA					
Total Amps:			200.1 A			200.1 A			200.1 A					
Load Classification			Connected Load			Demand Factor			Estimated Demand			Panel Totals		
KITCHEN EQUIPMENT (100% DEMAND)			72053 VA			100.00%			72053 VA			Total Conn. Load: 72.1 kVA		
												Total Est. Demand: 72.1 kVA		
												Total Conn.: 200.0 A		
												Total Est. Demand: 200.0 A		

Branch Panel: D3														
LOCATION: SUPPLY FROM: MDP MOUNTING: FLUSH ENCLOSURE: NEMA 1				VOLTS: 120/208 Wye PHASES: 3 WIRES: 4				A.I.C. SERIES RATING: 65K/10K MAINS TYPE: MLO MAINS RATING: 250 A						
NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT		
1	1	FUTURE FRYER (F523)	50 A	3	4.563	4.563		3	50 A	PRESSURE FRYER (523)	2	I		
--	3	--	--	--		4.563	4.563	--	--	--	4	--		
--	5	--	--	--			4.563	4.563	--	--	6	--		
SB	7	OPEN FRYER (522A)	80 A	3	7.446	7.446		3	80 A	OPEN FRYER (522A)	8	SB		
--	9	--	--	--		7.446	7.446	--	--	--	10	--		
--	11	--	--	--			7.446	7.446	--	--	12	--		
13	13	SPACE	--	1	--	--	--	1	--	SPACE	14			
15	15	SPACE	--	1	--	--	--	1	--	SPACE	16			
17	17	SPACE	--	1	--	--	--	1	--	SPACE	18			
19	19	SPACE	--	1	--	--	--	1	--	SPACE	20			
21	21	SPACE	--	1	--	--	--	1	--	SPACE	22			
23	23	SPACE	--	1	--	--	--	1	--	SPACE	24			
25	25	SPACE	--	1	--	--	--	1	--	SPACE	26			
27	27	SPACE	--	1	--	--	--	1	--	SPACE	28			
29	29	SPACE	--	1	--	--	--	1	--	SPACE	30			
Total Load:			24.02 kVA			24.02 kVA			24.02 kVA					
Total Amps:			200.1 A			200.1 A			200.1 A					
Load Classification			Connected Load			Demand Factor			Estimated Demand			Panel Totals		
KITCHEN EQUIPMENT (100% DEMAND)			72053 VA			100.00%			72053 VA			Total Conn. Load: 72.1 kVA		
												Total Est. Demand: 72.1 kVA		
												Total Conn.: 200.0 A		
												Total Est. Demand: 200.0 A		



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FSR#05416

BUILDING TYPE / SIZE: P14 LE BN
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SHEET **PANEL SCHEDULES**

SHEET NUMBER

E-501b

SECTION C16100 ELECTRICAL GENERAL PROVISIONS

PART 1 - GENERAL

1.01 WORK INCLUDED
A. Provide all materials, labor and equipment required to furnish and install a complete electrical system as indicated on drawings and as specified herein.

1.02 REGULATORY REQUIREMENTS
A. Equipment furnished shall be UL listed where such label is available. Installation shall conform to UL standards where applicable.
B. Electrical work shall be installed in accordance with drawings and specifications, NEC and NFPA codes in effect at project location, state and local electrical and building codes and special codes having jurisdiction over specific portions within complete installation.
C. Obtain permits and certificates of approval from all authorities having jurisdiction over the installation and pay all fees required.

1.03 SUBMITTALS
A. Submit list of materials and equipment prior to manufacture, order or installation and within twenty days after award of contract for approval. Include each item of material and equipment whether or not shop drawings are also required. List shall include name of manufacturer, catalog number and other complete identification as well as dimensions and detailed data. Submittals shall be included for the following:
1. Lighting Fixtures
2. Panelboards/Breakers
3. Wiring Devices and Device Plates
4. Enclosed Switches
B. Certified shop drawings and submittals shall bear stamp of approval of contractor as evidence that drawings have been checked. Drawings submitted without this stamp of approval will not be considered and will be returned for proper resubmission.
C. If submittals show variances or substitutions from requirements of contract, contractor shall make specific mention of such variation in his letter of transmittal in order that, if acceptable, suitable action may be taken for proper adjustment. Otherwise contractor shall not be relieved of responsibility for executing work in accordance with contract even though such submittals have been approved.

1.04 SITE VISIT
A. Visit job site prior to bid date to determine actual conditions under which work shall be done, to familiarize oneself with project and to verify total scope of work required. Failure to do so shall not constitute a reason for an extra charge.

SECTION C16101 BASIC MATERIALS AND METHODS
PART 1 - GENERAL
1.01 COORDINATION
A. Obtain and review shop drawings, product data, and manufacturer's instructions for equipment furnished under other sections to determine connection locations and requirements.
B. Sequence rough-in of electrical connections to coordinate with installation and start-up of equipment furnished under other sections.

PART 2 - PRODUCTS
2.01 SUBSTITUTIONS
A. Where specifications list one or more manufacturers and do not include "or approved equal", furnish materials made by one of manufacturers listed. Where "or approved equal" is included, contractor may substitute equal products by another manufacturer subject to approval by engineer and owner.

PART 3 - EXECUTION
3.01 INSTALLATION
A. Make electrical connections to utilization equipment in accordance with equipment manufacturer's instructions.
B. Drawings are 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.
4. Installed for panelboard feeders above slab.
1.03 INTERMEDIATE METAL CONDUIT (IMC)
A. Use Intermediate Metal Conduit (IMC) where drawings call for conduit to be:
1. Installed for panelboard feeders ran below ground.
2. Installed in wet locations (interior and exterior).
3. Installed exposed below 6 feet.

1.04 POLYVINYL CHLORIDE (PVC) RACEWAY
A. Use PVC raceway for:
1. Underground service entrance conduits for telephone and power.
2. Exterior branch circuits installed underground.
3. Interior branch circuit conduits installed in or under concrete slab on ground floor.
1.05 RIGID STEEL CONDUIT (RSC)
A. Use Rigid Steel Conduit for:
1. Install underground for power Service Entrance elbows penetrating floor slab.
2. Exposed to physical damage.
1.06 FLEXIBLE METAL CONDUIT
A. Provide flexible metal conduit for termination at equipment subject to motion and vibration.
B. Length shall not exceed 6 feet in accessible ceiling areas.
C. Shall not be concealed in walls.
D. Where exposed to continuous or intermittent moisture, conduit shall be UL Type EF liquidtight or type as indicated.
E. For connection to ceiling mounted lighting fixtures from outlet boxes.

1.07 MC (METAL-CLAD) CABLE
A. MC Cable shall be UL listed per standard 1569, color coded copper conductors (type THHN), the sheathing shall be constructed of interlocking galvanized steel, and shall conform to the requirements of Article 330 of the National Electrical Code.
B. MC Cable with an isolated grounding conductor shall be used, concealed above ceiling and in walls, for the connection of the Point Of Sales (POS) system equipment from the isolated ground receptacles to the panelboard serving the POS loads when allowed by local codes and Article 330 of the National Electrical Code.
C. MC Cable may be used when allowed by local codes and Article 330 of the National Electrical Code for branch circuits (except the main homerun to the panelboard which shall be conduit with conductors) for the following:
1. Lighting
2. Dining area receptacles
3. Fly Lights
4. Building mounted signage
5. Office area receptacles
D. MC Cable shall not be used for branch circuits serving Kitchen Equipment Items and similar circuits in the Kitchen, the Drive-Thru area, and the Serving area's back counter.

PART 2 - EXECUTION

2.01 INSTALLATION
A. Minimum size of conduits shall be 1/2 inch.
B. Run concealed conduits in direct line with long sweep bends or offsets. Run exposed conduits parallel to and at right angles to building lines. Group multiple conduit runs in banks.
C. Cap ends of conduits to prevent entrance of water and other foreign material during construction.
D. Provide No. 12 AWG copper pull wires or nylon cord in all empty conduits. Steel wire not acceptable as pull wire.
E. Where IMC enters a cabinet, junction box, or pull box conductors shall be protected by an insulated bushing. Locknuts shall be installed on conduit outside and inside enclosure.
F. In areas where enclosed and gasketed fixtures and weatherproof devices are specified, where Rigid Conduit enters a sheet metal enclosure, junction box and outlet box, and not terminated in a threaded hub, a steel, or malleable iron nylon insulated hub, complete with recessed sealing "O"ring or sealing locknut shall be used.

G. Provide seal-off fitting in all conduits entering a cold temperature area such as freezers and dry refrigerators.
H. In concrete slabs, block up conduit from forms and securely fasten in place. all conduits in slabs shall have a minimum of 4" inches concrete coverage above.
I. Failure to route conduit through building without interfering with other equipment, and construction shall not constitute a reason for an extra charge. Equipment, conduit, and fixtures shall fit into available spaces in building and shall not be introduced into building at such times and manner as to cause damage to structure or equipment. Equipment requiring servicing shall be readily accessible.

2.02 EMT (ELECTRICAL METALLIC TUBING) RACEWAY
A. Do not use Electrical Metallic Tubing in cinder concrete or cinder fill or where conduit system is in contact with dissimilar metals or in wet locations.
2.03 PVC RACEWAY
A. Use threaded fittings for all connectors and adapters.
B. Provide 1/4-inch nylon pull rope in all primary power and incoming telephone service entrance conduits.
C. PVC conduit shall convert to galvanized rigid metal per detail on drawings.

2.04 FLEXIBLE METAL CONDUIT
A. Where fittings for liquid tight flexible conduit are brought into an enclosure with a knock-out, a gasket assembly, consisting of one piece "O" ring, with Buna-N sealing material, series 3400, shall be installed on outside of box. Fittings shall be made of either steel or malleable iron only, and shall have insulated throats or insulated bushings.
B. In dry locations, where final connections to motors and other equipment may be made with Flexible Metal Conduit, fittings shall be of steel or malleable iron only with insulated throats or insulated bushings, and shall be of wedge and screw type having an angular wedge fitting between convolutions of conduit.
2.05 MC CABLE
A. MC Cable may be used for branch circuits as noted in Part 1 above and where the local code allows use of MC Cable. The installation shall conform to Article 330 of the National Electrical Code and shall be concealed in walls and above ceilings. (Exposed MC Cable will not be acceptable.)
B. MC Cables shall be secured and supported by the building structure per the National Electrical Code and any local code requirements. MC Cable shall not lay on ceilings.

SECTION C16121 CONDUCTORS
PART 1 - PRODUCTS
1.01 CONDUCTORS
A. Provide 98% conductivity copper conductors with 600-volt insulation. For conductors No. 12 AWG and No. 10 AWG, provide solid type. For all conductors No. 8 AWG and larger, provide stranded type. All conductors shall have THHN/THWN insulation unless noted otherwise.
B. Conductors shall be manufactured by Triangle, American, Rome, Southwire or approved equal.
C. Provide No. 14 AWG type THHN fixture conductors, for conductors entering lighting fixtures.
D. Branch circuit conductors shall be minimum #12 AWG, copper.

PART 2 - EXECUTION
2.01 INSTALLATION
A. Install pull boxes in circuits or feeders over 100 feet long.
B. Make all splices or connections only at outlet, pull or junction boxes.
C. All conductors and connections shall test free of grounds, shorts, and opens prior to energizing circuit.
D. Provide No. 10 wire in lieu of No. 12 wire for any branch circuit in excess of 100 feet linear length to prevent excessive voltage drop.
E. Use Ideal wing nuts, Scotchlok Type Y, R, G, or B, or approved equivalent connectors for fixture connections at outlet boxes.

F. Make feeder taps and joints with OZ Type T, PT, PM or PTS, or approved equivalent clamp connectors as manufactured by Kupler, or with approved compression sleeves. Wrap connectors with No. 10 Electro-Seal or approved equivalent plastic filler and vinyl tape.
G. Leave a minimum of 8" slack wire in every outlet box.
H. Provide color coded wire and with a different color for each phase and neutral and ground as follows: Phase A, B, C: Black, Red and Blue respectively; Neutral: White; Isolated Ground: Green with Yellow Stripes. Approved color tape is acceptable for feeders using larger than #6 conductors.
I. All conductors shall be continuous from origin to panel or equipment termination without splices where possible. Where splices and taps are necessary or are required, they shall be made in splice boxes with suitable connectors.
J. Tighten all electrical connectors and terminals, including screws and bolts, in accordance with manufacturer's published torque tightening values. Where manufacturer's torquing requirements are not indicated, tighten connectors and terminals to comply with tightening torques specified in UL486A and UL486B.

SECTION C16122 OUTLET AND JUNCTION BOXES
PART 1 - GENERAL
1.01 PROJECT CONDITIONS
A. Verify field measurements are as shown on drawings.
B. Verify locations of floor boxes and outlets in work areas prior to rough-in.
PART 2 - PRODUCTS
2.01 OUTLET BOXES
A. Sheet metal outlet boxes: galvanized steel.
B. Cast boxes: type FS, cast 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.

SECTION C16123 GROUNDING AND BONDING
PART 1 - PRODUCTS
1.01 ROD ELECTRODES
A. Material: copper-clad steel.
B. Diameter: 3/4 inch.
C. Length: 10 feet.
1.02 MECHANICAL CONNECTORS
A. Material: bronze.
1.03 GROUNDING CONDUCTOR (WIRE)
A. Material: stranded copper, sized to meet NFPA 70, Article 250 requirements.
PART 2 - EXECUTION
2.01 INSTALLATION
A. Install rod electrodes at locations indicated. Install additional rod electrodes as required to achieve resistance to ground of less than 25 ohms.
B. Provide grounding electrode conductor and connect to reinforcing steel in foundation footing.
C. Provide bonding to meet regulatory requirements.
D. Bond together each metallic raceway, pipe, duct and other metal objects.
E. Provide isolated grounding conductor for circuits supplying all isolated ground outlets. Insulation shall be green with yellow stripe. Size per NEC Table 250.66. This isolated grounding conductor shall run in addition to equipment grounding conductor and along with the branch circuit conductors.
2.02 GROUNDING
A. Ground electrical system in accordance with NEC Article 250 and local authorities having jurisdiction.
B. Install a #3/0 bare copper wire bond across the water meter attached to ground clamps on water line on each side of meter. Arrangements shall be made to do this work at the time the water meter is installed.
C. From the point of entrance of the water main into the building and on the meter side of the main inside water valve and union install a stranded copper cable #3/0 in 1-1/4" conduit to the main distribution panel. Connect the cable to the equipment ground bus.
D. Install a green equipment grounding conductor in each raceway, sized per NEC Table 250-122. Terminate on equipment ground bus within panelboard serving load.
E. Install #6 awg copper grounding conductor from ground bar in main telephone box to inter system bonding termination to grounded neutral bus in main distribution panel.
F. All separate grounding electrode conductors shall be bonded together to limit potential differences between them and between their associated wiring systems. This includes the power system, telephone system, etc.
2.03 FIELD QUALITY CONTROL
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E. Provide isolated grounding conductor for circuits supplying all isolated ground outlets. Insulation shall be green with yellow stripe. Size per NEC Table 250.66. This isolated grounding conductor shall run in addition to equipment grounding conductor and along with the branch circuit conductors.
2.02 GROUNDING
A. Ground electrical system in accordance with NEC Article 250 and local authorities having jurisdiction.
B. Install a #3/0 bare copper wire bond across the water meter attached to ground clamps on water line on each side of meter. Arrangements shall be made to do this work at the time the water meter is installed.
C. From the point of entrance of the water main into the building and on the meter side of the main inside water valve and union install a stranded copper cable #3/0 in 1-1/4" conduit to the main distribution panel. Connect the cable to the equipment ground bus.
D. Install a green equipment grounding conductor in each raceway, sized per NEC Table 250-122. Terminate on equipment ground bus within panelboard serving load.
E. Install #6 awg copper grounding conductor from ground bar in main telephone box to inter system bonding termination to grounded neutral bus in main distribution panel.
F. All separate grounding electrode conductors shall be bonded together to limit potential differences between them and between their associated wiring systems. This includes the power system, telephone system, etc.
2.03 FIELD QUALITY CONTROL
A. Inspect grounding and bonding system conductors and connections for tightness and proper installation.

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.
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D. Install a green equipment grounding conductor in each raceway, sized per NEC Table 250-122. Terminate on equipment ground bus within panelboard serving load.
E. Install #6 awg copper grounding conductor from ground bar in main telephone box to inter system bonding termination to grounded neutral bus in main distribution panel.
F. All separate grounding electrode conductors shall be bonded together to limit potential differences between them and between their associated wiring systems. This includes the power system, telephone system, etc.
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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

NOTE OF SPECIAL IMPORTANCE:

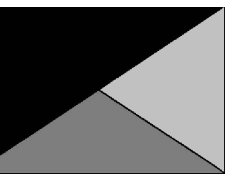
BELOW-SLAB BEVERAGE CONDUIT SHALL BE 6" DIAMETER SCHED 40 DWV SOLID WALL, NO FOAM CORE ALLOWED. USE LONG RADIUS ELBOWS (A.K.A. SWEEPS) ON ALL BEVERAGE CONDUIT. PLEASE NOTE BEVERAGE CONDUIT ROUGH-IN LOCATIONS ARE MEASURED TO THE FRACTION OF AN INCH. CARE MUST BE TAKEN WHEN INSTALLING 6" DIAMETER CONDUIT LOCATED WITHIN A 2X8 WALL. THE MARGIN FOR ERROR IS ONLY 1/16TH INCH.

NOTES ABOUT (0,0) BENCHMARK ORIGIN

1. THE (X=0, Y=0) BENCHMARK ORIGIN IS LOCATED AT THE OUTSIDE FACE-OF-FRAMING FOR THE EXTERIOR WALL AT THE CORNER WHERE SHOWN.
2. IT IS EXTREMELY IMPORTANT FOR THE PLUMBING INSTALLER TO BECOME COMPLETELY FAMILIAR WITH THE FACE-OF-FRAMING POSITION AND ITS RELATION TO THE FLOOR SLAB CONSTRUCTION PRIOR TO BEGINNING THE UNDERSLAB PLUMBING ROUGH-IN.
3. PLUMBING CONTRACTOR SHALL REVIEW STRUCTURAL DETAILS FOR PRECISE LOCATION OF FACE-OF-FRAMING WITH RESPECT TO THE SLAB INSTALLATION PRIOR TO LOCATING SLAB ROUGH-INS.



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



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



02/15/24

CHICK-FIL-A
RELO HULL STREET FSU
12280 BRIDGEWOOD CROSSING
Midlothian, VA 23112

FSR#05416

BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.02

PRINTED FOR CONSTRUCTION

REVISION	SCHEDULE	NO.	DATE	DESCRIPTION
1	02/05/2024	DESIGN		
2	02/07/2024	BUILDING		

CONSULTANT PROJECT # 23141.EH.S

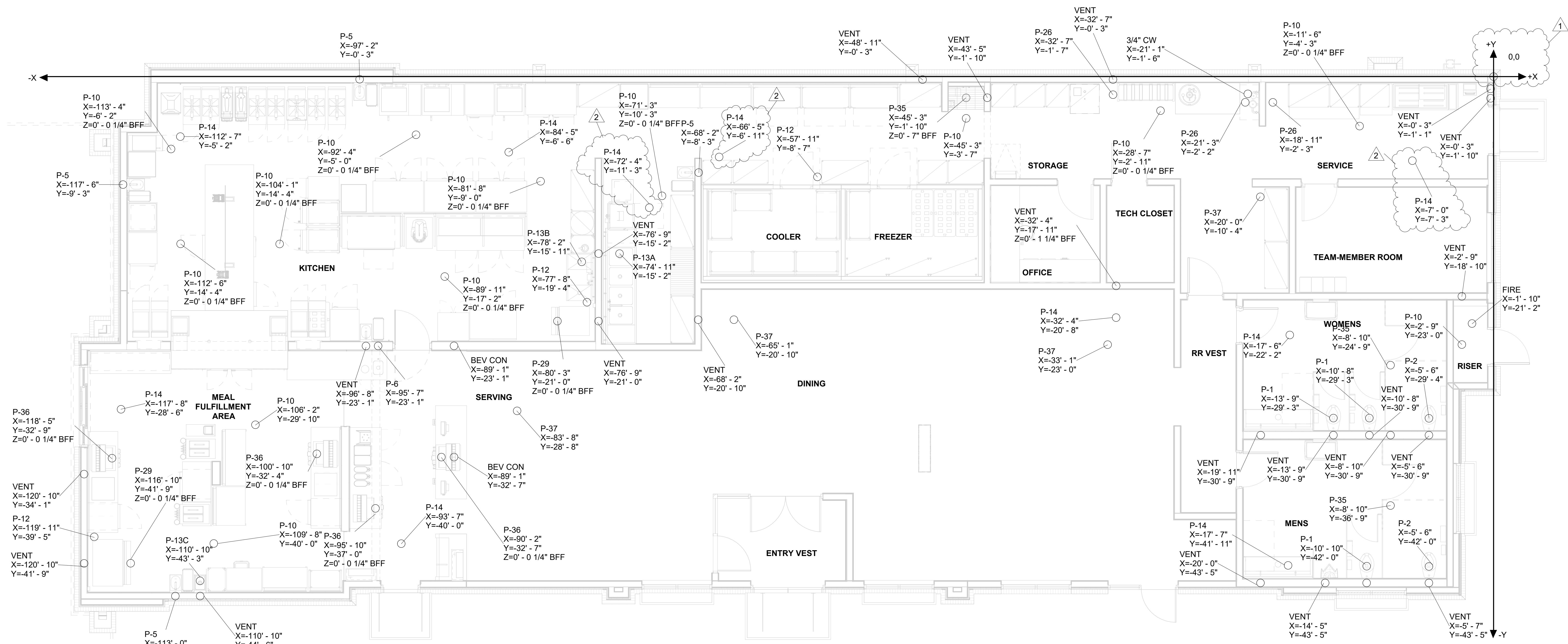
DATE 09/18/23

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UNDERGROUND ROUGH-IN PLAN

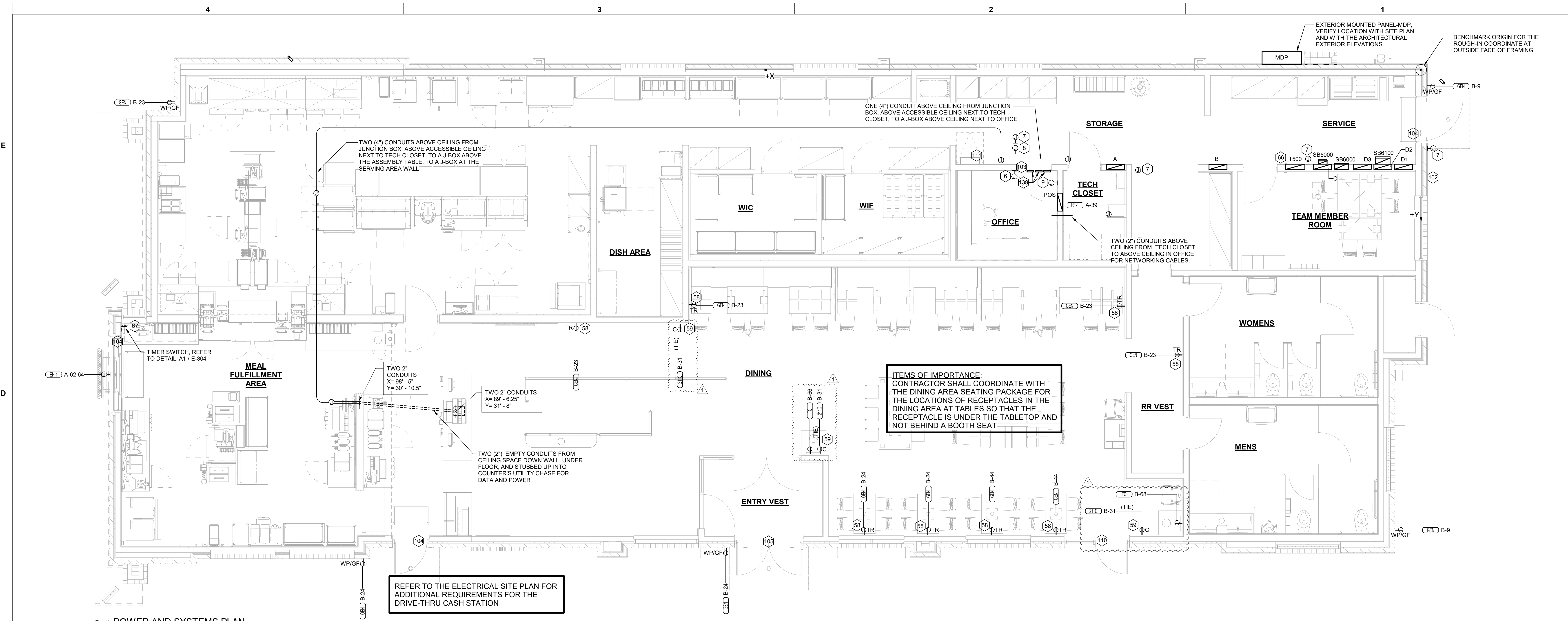
SHEET NUMBER

P-102



1 SLAB ROUGH-IN PLAN
1/4" = 1'-0"

2/15/2024 5:18:00 PM Autodesk Docs://VA_05416_RELO Hull Street FSU_2023.4_FSR05416_RELO Hull Street FSU_PLB.plt 40-LE-05416-P-102-UNDERGROUND ROUGH-IN PLAN



C1 POWER AND SYSTEMS PLAN
1/4" = 1'-0"

POWER PLAN GENERAL NOTES

- A. ALL SECURITY, POS, MUSIC, COMMUNICATIONS, AND POWER ROUGH-IN SHALL BE INSTALLED DURING THE FRAMING/ROUGH-IN PHASE OF CONSTRUCTION.
- B. REFER TO KITCHEN EQUIPMENT SHEETS FOR EQUIPMENT ELECTRICAL ROUGH-IN ELEVATIONS ABOVE FINISHED FLOOR.
- C. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
- D. PROVIDE INSULATED BUSHING AT TERMINATION POINTS OF ALL CONDUITS FOR LOW VOLTAGE WIRING.
- E. 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.

ELECTRICAL KEYNOTES

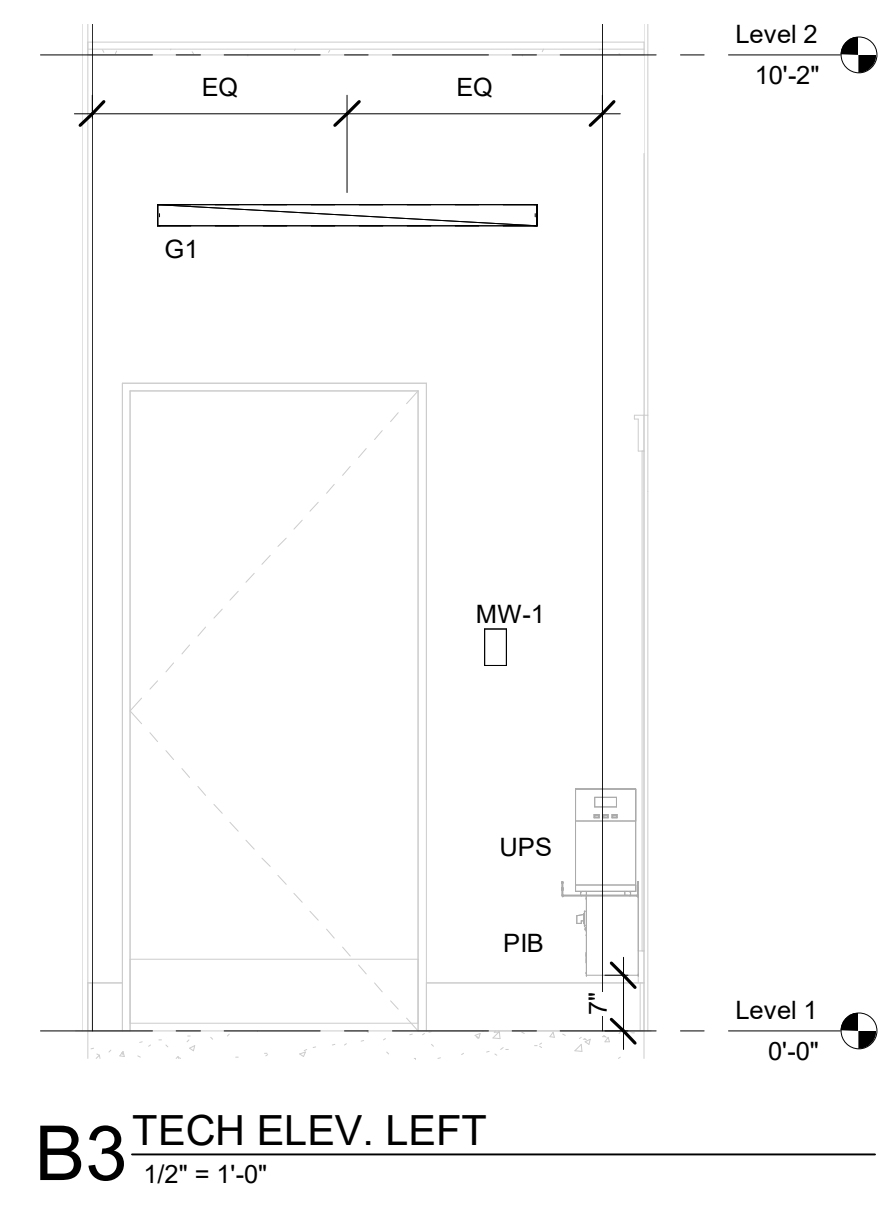
- 6 CO2 CENTRAL CONTROL UNIT - PROVIDE SINGLE-GANG BACKBOX AT 60" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE
- 7 CO2 ANNUNCIATOR UNIT - PROVIDE SINGLE-GANG BACKBOX AT 60" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE
- 8 CO2 SENSOR UNIT - PROVIDE SINGLE-GANG BACKBOX AT 12" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE
- 9 CO2 POWER SUPPLY - PROVIDE SINGLE-GANG BACKBOX AT 18" BELOW CEILING WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE. PROVIDE DUPLEX OUTLET, AND CONNECT TO A LOCAL GENERAL OUTLET CIRCUIT. FIELD VERIFY EXACT LOCATION WITH STRONG SYSTEMS 800-500-5566
- 58 TAMPER RESISTANT (TR) DUPLEX RECEPTACLE (IN DINING AREAS) WITH USB CHARGER SHALL BE COOPER/ARROW HART #TR756-B (BROWN) WITH MATCHING COLOR "DECOR" STYLE PLATE. VERIFY COLOR WITH OWNER.
- 59 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.
- 64 PROVIDE TWO 6"H X 6"W X 4"D J-BOXES (ONE FOR TELEPHONE AND ONE FOR ISP) AT 6'-6" AFF AND EXTEND A 2" CONDUIT WITH PULL STRING IN THE WALL FROM EACH J-BOX INTO THE ACCESSIBLE CEILING SPACE. PROVIDE A 36" X 36" X 3/4" PLYWOOD BACKBOARD ON THE WALL ABOVE THE J-BOXES (AT THE CEILING) FOR USE BY THE ISP. PROVIDE A COPPER GROUND BAR (EQUAL TO ERICO TGBA24L14P) AT THE BOTTOM OF THE BACKBOARD WITH A #6 AWG INSULATED CU GROUNDING CONDUCTOR IN A 3/4" C FROM THE GROUND BAR TO THE INTER SYSTEM BONDING TERMINATION NEXT TO THE SERVICE ENTRANCE. THE GROUND BAR SHALL HAVE TAPS FOR USE BY THE TELEPHONE AND ISP UTILITY COMPANIES AND FOR THE #6 COMMUNICATIONS GROUNDING CONDUCTOR TO THE GES. PROVIDE A 15 AMP ISOLATED GROUND (IG) ORANGE-FACED DUPLEX RECEPTACLE IN THE WALL BESIDE THE BACKBOARD AND LABEL THE RECEPTACLE "FOR FIBER TO CABLE MODEM USE ONLY". BOND NETWORK RACKS TO GROUND BAR.
- 66 THE STORE OPEN-CLOSE UNIT SWITCH IS FURNISHED WITH THE CFA-T500 CONTROL PANEL AND FACTORY INSTALLED IN THE DOOR OF THE CFA-T500 CABINET.
- 67 TIMER SWITCH FOR OUTSIDE ELECTRIC HEATER. REFER TO DETAILS SHEET E-502 AND WIRING DIAGRAMS E-703.
- 102 PROVIDE A 1/2" CONDUIT THRU THE EXTERIOR WALL AND STUBBED INTO THE ACCESSIBLE CEILING SPACE FOR THE EXTERIOR WALL MOUNTED AUDIO-VISUAL ALARM NOTIFICATION DEVICE. VERIFY LOCATION WITH THE EXTERIOR ELEVATIONS AND WITH THE SECURITY INSTALLER - TYPICALLY TO BE LOCATED NEAR THE FIRE PROTECTION SYSTEM'S EXTERIOR ALARM UNIT AND VISIBLE FROM THE STREET.

ELECTRICAL KEYNOTES

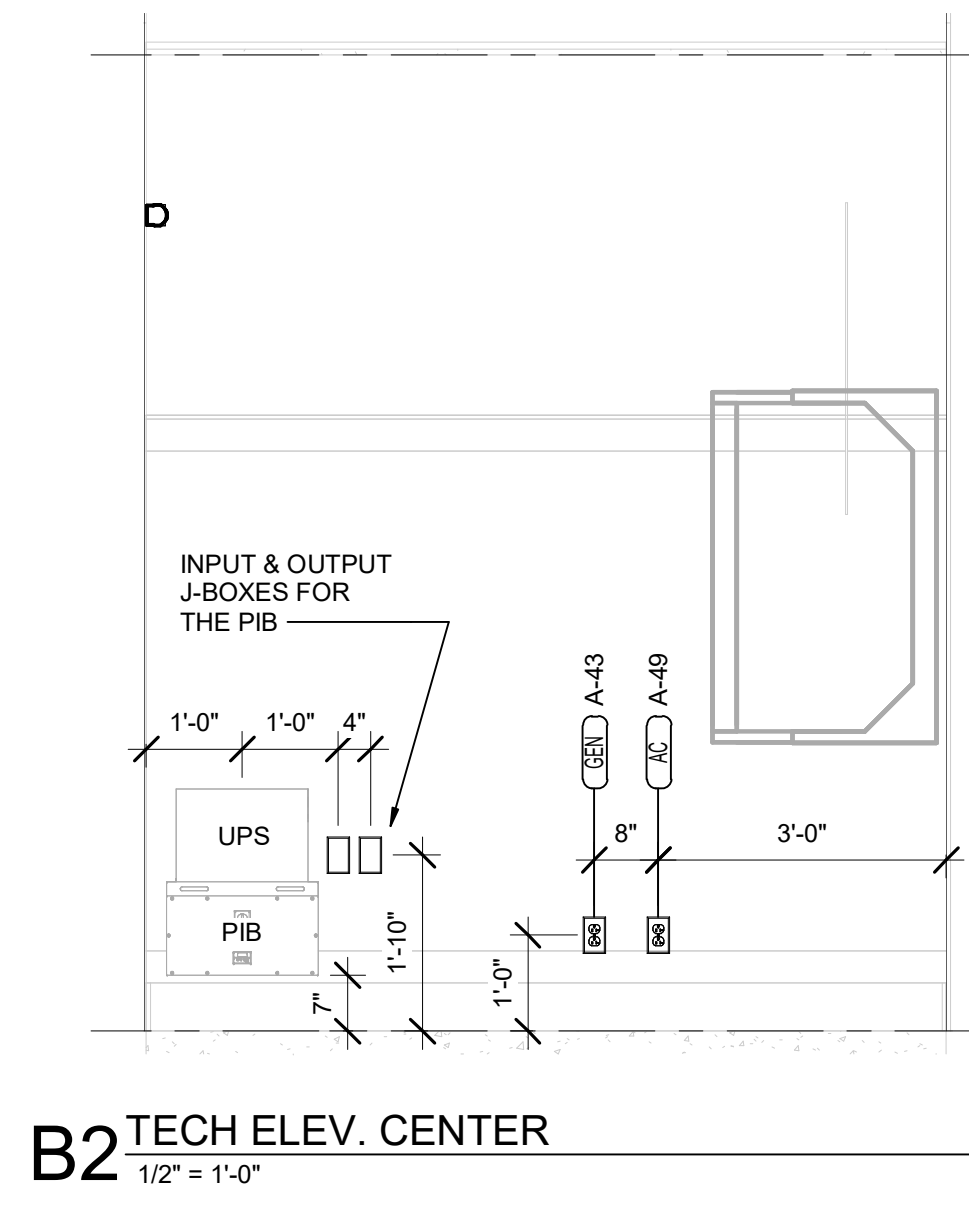
- 103 EXTEND 1/2" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.
- 104 EXTEND 3/4" RIGID CONDUIT FROM TOP OF STRIKE-SIDE DOOR FRAME CHANNEL TO ABOVE ACCESSIBLE CEILING.
- 105 EXTEND 1/2" CONDUIT FROM A POINT 3" WITHIN EITHER HINGE-SIDE DOOR VERTICAL FRAME MULLION TO ABOVE ACCESSIBLE CEILING.
- 110 EXTEND 1/2" CONDUIT FROM A POINT 3" INSIDE THE STRIKE-SIDE DOOR FRAME MULLION TO ABOVE ACCESSIBLE CEILING.
- 111 PROVIDE JUNCTION BOX ON THE LATCH SIDE OF THE ROOF ACCESS HATCH WITH 1/2" CONDUIT ABOVE THE CEILING TO AN ACCESSIBLE CEILING SPACE FOR A DOOR CONTACT.
- 139 ACCESS CONTROL PANELS LOCATED ABOVE DOOR. SECURITY CONTRACTOR TO INSTALL AND PROVIDE POE.

REFER TO THE ELECTRICAL SITE PLAN FOR ADDITIONAL REQUIREMENTS FOR THE DRIVE-THRU CASH STATION

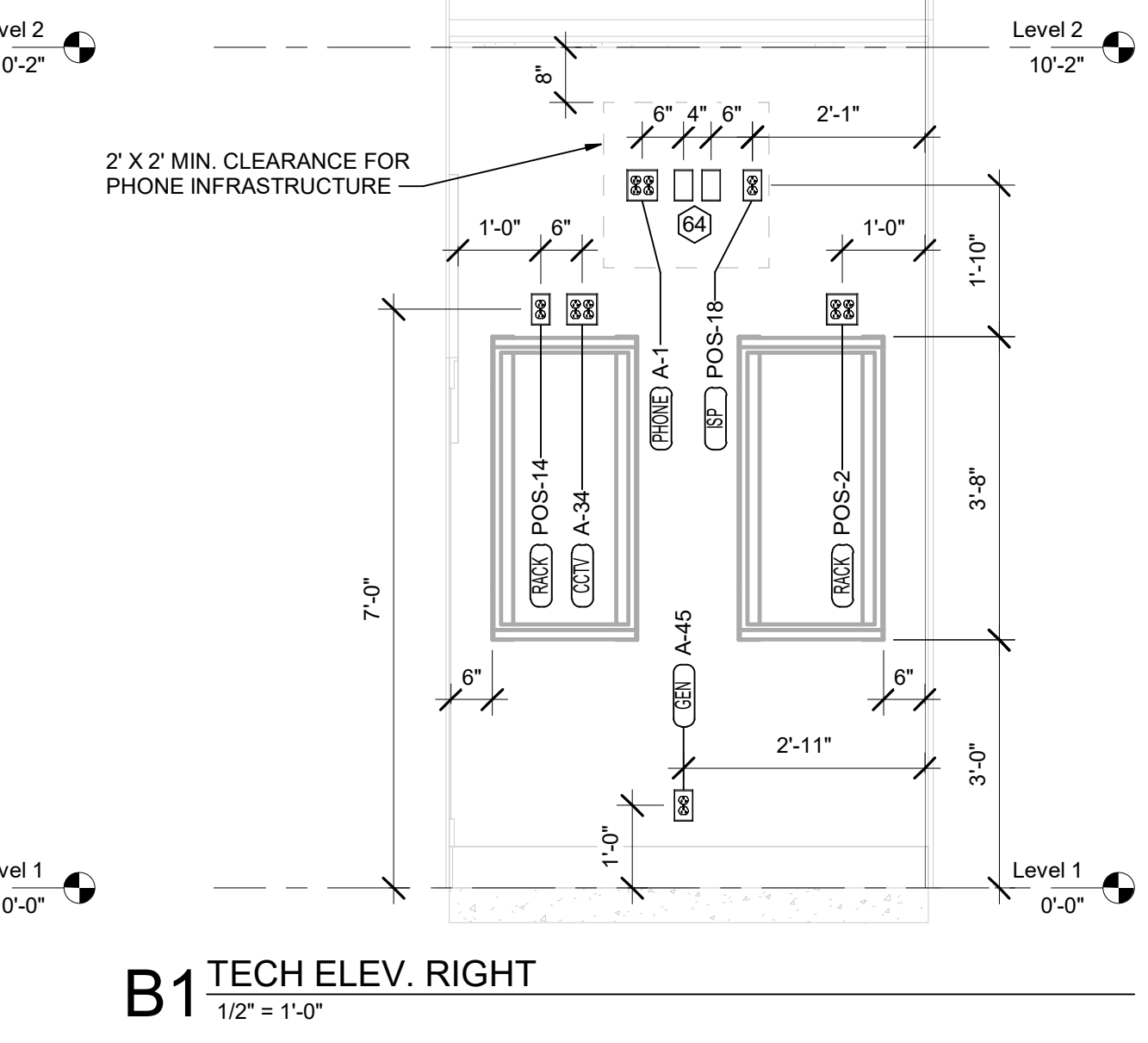
ITEMS OF IMPORTANCE:
CONTRACTOR SHALL COORDINATE WITH THE DINING AREA SEATING PACKAGE FOR THE LOCATIONS OF RECEPTACLES IN THE DINING AREA AT TABLES SO THAT THE RECEPTACLE IS UNDER THE TABLETOP AND NOT BEHIND A BOOTH SEAT



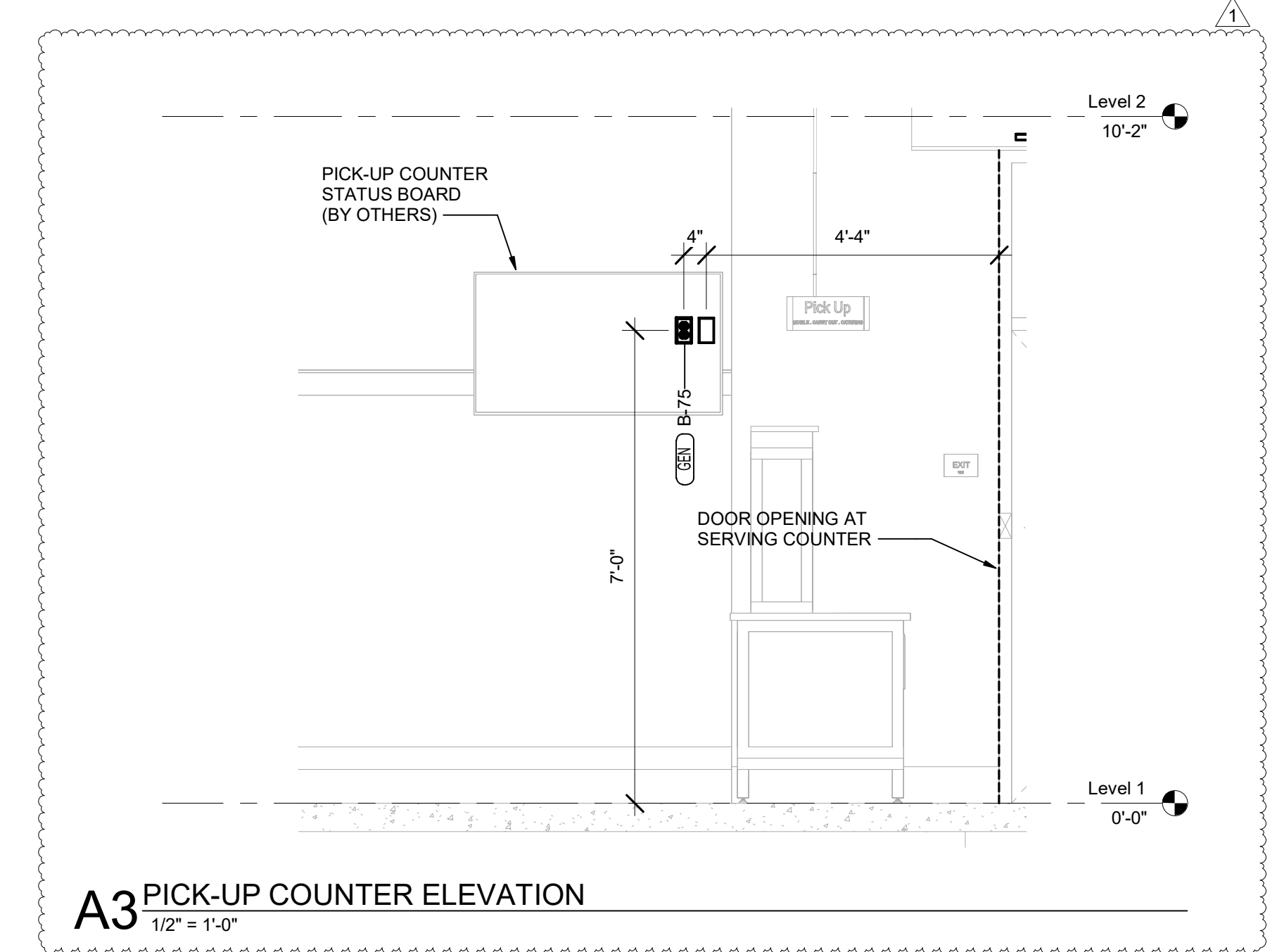
B3 TECH ELEV. LEFT
1/2" = 1'-0"



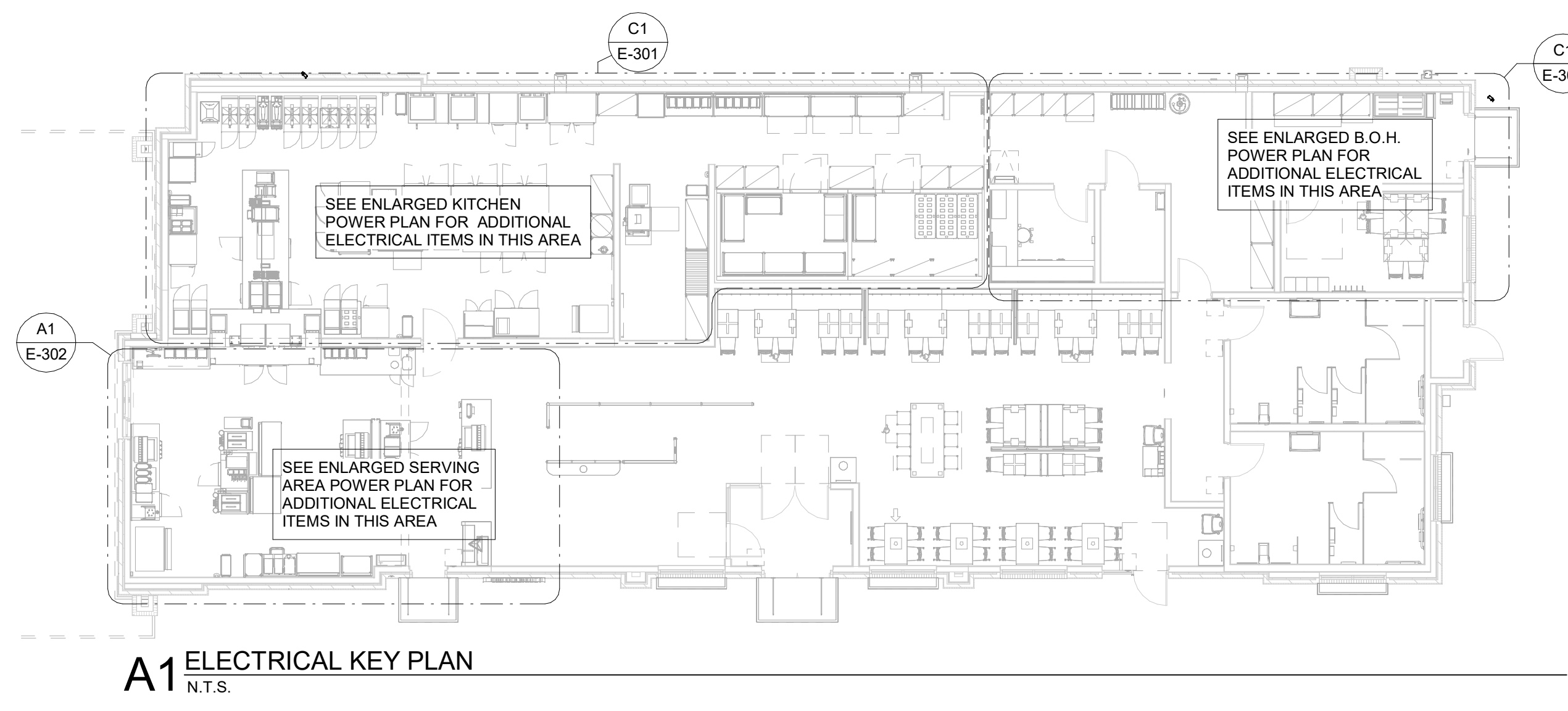
B2 TECH ELEV. CENTER
1/2" = 1'-0"



B1 TECH ELEV. RIGHT
1/2" = 1'-0"



A3 PICK-UP COUNTER ELEVATION
1/2" = 1'-0"



A1 ELECTRICAL KEY PLAN
N.T.S.



CHICK-FIL-A
HULL STREET AT
1280 BRIDGEWOOD CROSSINGS
DRIVE
MIDLOTHIAN, VA 23112

FSR#05416
BUILDING TYPE / SIZE: P14 LE BN
RELEASE: 23.02

CONSTRUCTION		
REVISION SCHEDULE	NO.	DATE / DESCRIPTION
	1	02/05/2024 DESIGN

CONSULTANT PROJECT # 23141.EH.S
DATE 09/15/2023
DRAWN BY ES
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POWER AND SYSTEMS PLAN
SHEET NUMBER
E-221