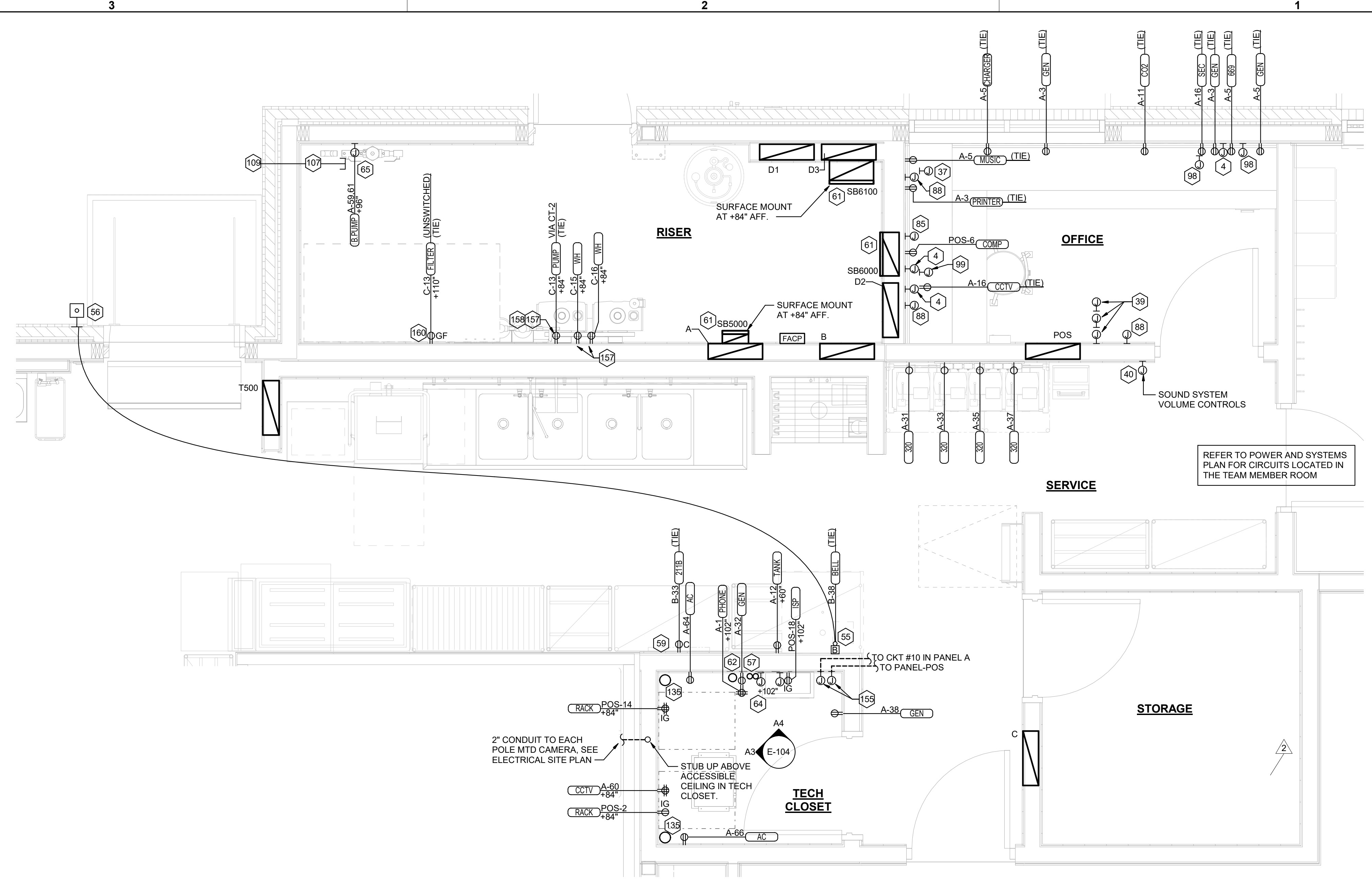
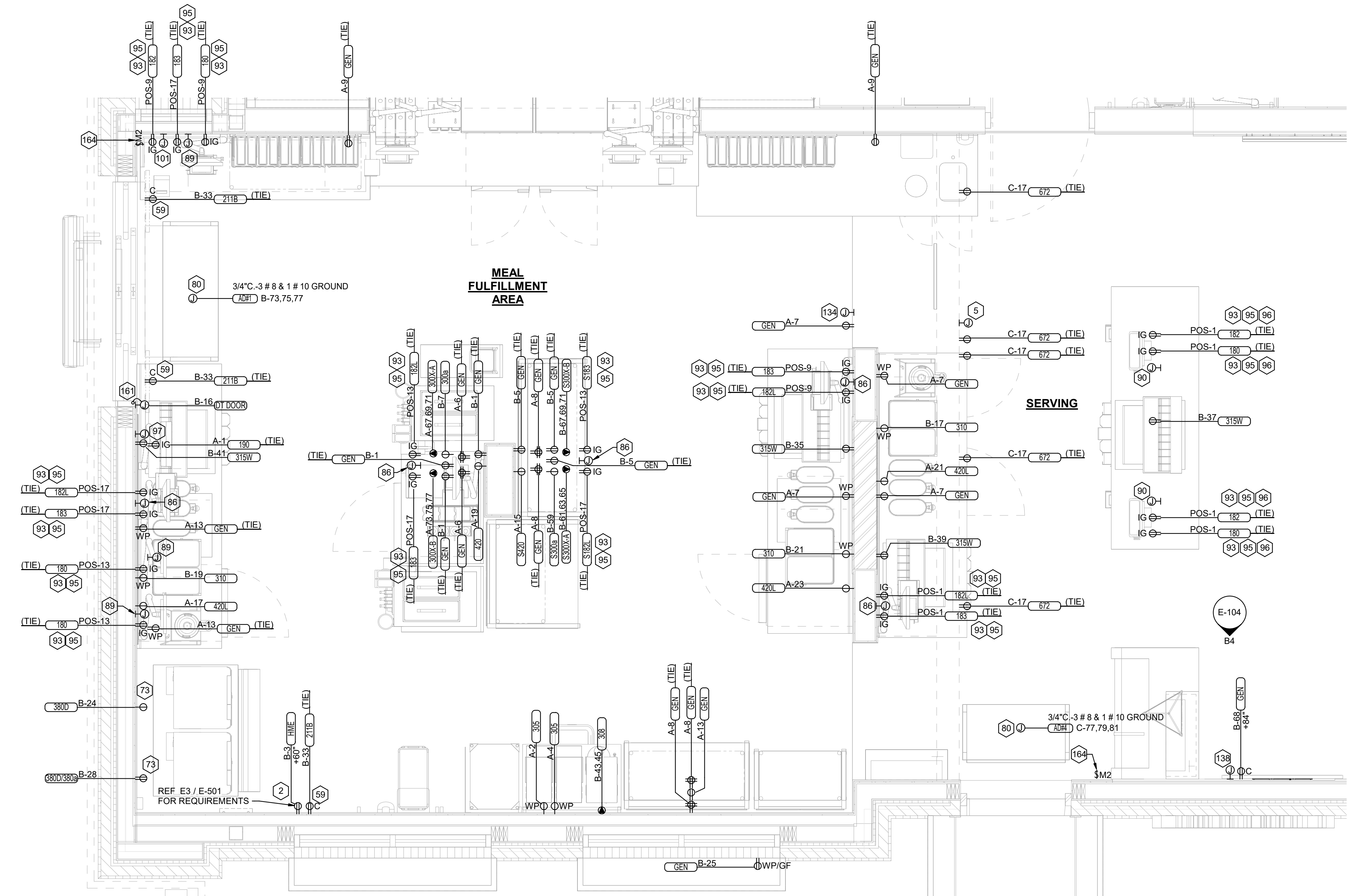


**ELECTRICAL KEYNOTES**

- 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 FUTURE MENU BOARD 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 #DYFR2W 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, SB6100 SHOCK BLOCK GFCI PROTECTION DEVICE, AND SB5000 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 ERICO TGBA24L14P) AT THE BOTTOM OF THE BACKBOARD WITH A #6 AWG INSULATED CU GROUNDING CONDUCTOR IN A 3/4" 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 ROOF ELECTRICAL PLAN FOR THE LOCATION OF THE ICE MAKER CONDENSERS AND ANY ADDITIONAL REQUIREMENTS.
- 80 JUNCTION BOX ABOVE CEILING FOR AIR CURTAIN.
- 85 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.
- 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 5-15R 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.
- 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. 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 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 SECURITY KEYPAD. EXTEND 1/2" CONDUIT UP IN WALL 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 "S10" ABOVE.
- 134 PROVIDE A JUNCTION BOX WITH A 1" CONDUIT FOR DATA AND/OR SYSTEMS STUBBED UP INTO CEILING SPACE FOR APPROVED OPERATOR OPTIONAL EQUIPMENT.
- 135 PROVIDE 4" EMPTY CONDUIT FROM 6" ABOVE THE TOP OF THE NETWORK RACK TO ABOVE ACCESSIBLE CEILING.
- 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 WITH THE PLUMBING PLANS FOR THE LOCATION OF THE WATER FILTER OUTLET. CONCEAL CONNECTION FROM J-BOX TO DOOR IN WALL. POWER TO BE RUN THROUGH 1" MAX HOLE CENTERED IN THE WIDTH OF THE HEADER ABOVE WHERE DOOR JAMB LINES UP. VERIFY WITH STRUCTURAL ON EXACT LOCATION.
- 164 ON/OFF SWITCH FOR AIR CURTAIN PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.



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

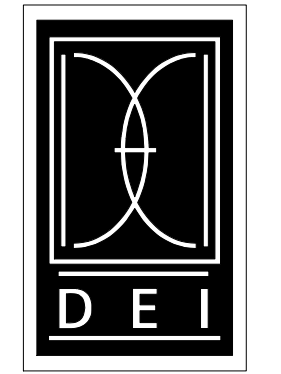


**A1 ENLARGED SERVING AREA POWER PLAN**  
1/2" = 1'-0"

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 50-SE-05788-E-401-ENLARGED SERVING AND BOH POWER PLAN



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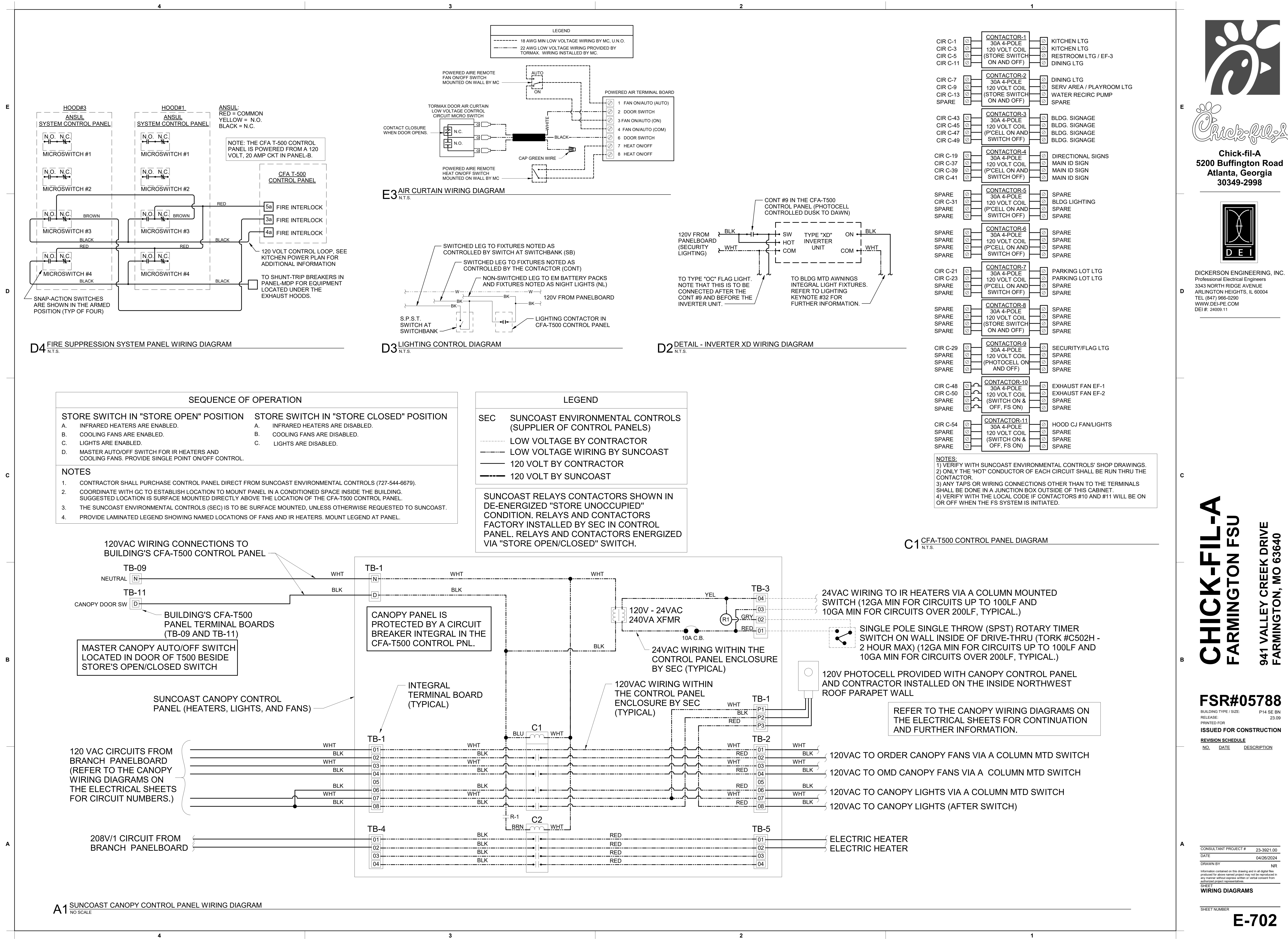
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**FSR#05788**  
 BUILDING TYPE / SIZE: P14 SE BN  
 RELEASE: 23.09  
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NO.	DATE	DESCRIPTION
2	03/29/2024	OWNER CHANGES

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**ENLARGED SERVING AND BOH POWER PLAN**  
 SHEET NUMBER  
**E-401**



**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**

- CONTRACTOR SHALL PURCHASE CONTROL PANEL DIRECT FROM SUNCOAST ENVIRONMENTAL CONTROLS (727-544-6679).
- 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.
- THE SUNCOAST ENVIRONMENTAL CONTROLS (SEC) IS TO BE SURFACE MOUNTED, UNLESS OTHERWISE REQUESTED TO SUNCOAST.
- 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.

**D4 FIRE SUPPRESSION SYSTEM PANEL WIRING DIAGRAM**  
N.T.S.

**D3 LIGHTING CONTROL DIAGRAM**  
N.T.S.

**D2 DETAIL - INVERTER XD WIRING DIAGRAM**  
N.T.S.

**E3 AIR CURTAIN WIRING DIAGRAM**  
N.T.S.

**C1 CFA-T500 CONTROL PANEL DIAGRAM**  
N.T.S.

- NOTES:**
- VERIFY WITH SUNCOAST ENVIRONMENTAL CONTROLS' SHOP DRAWINGS.
  - ONLY THE "HOT" CONDUCTOR OF EACH CIRCUIT SHALL BE RUN THRU THE CONTACTOR.
  - ANY TAPS OR WIRING CONNECTIONS OTHER THAN TO THE TERMINALS SHALL BE DONE IN A JUNCTION BOX OUTSIDE OF THIS CABINET.
  - VERIFY WITH THE LOCAL CODE IF CONTACTORS #10 AND #11 WILL BE ON OR OFF WHEN THE FS SYSTEM IS INITIATED.

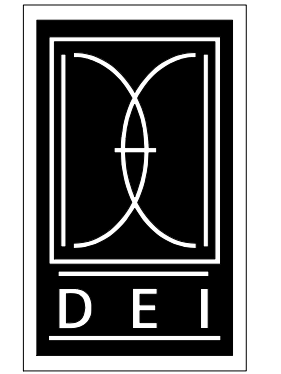
**LEGEND**

- 18 AWG MIN LOW VOLTAGE WIRING BY MC, U.N.O.
- 22 AWG LOW VOLTAGE WIRING PROVIDED BY TORMAX. WIRING INSTALLED BY MC.

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



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**FSR#05788**  
BUILDING TYPE / SIZE: P14 SE BN  
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**REVISION SCHEDULE**

NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 23-3821.00  
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**WIRING DIAGRAMS**

**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 INTO ACCESSIBLE CEILING SPACE AT TECH CLOSET OR OFFICE IF NO TECH 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.

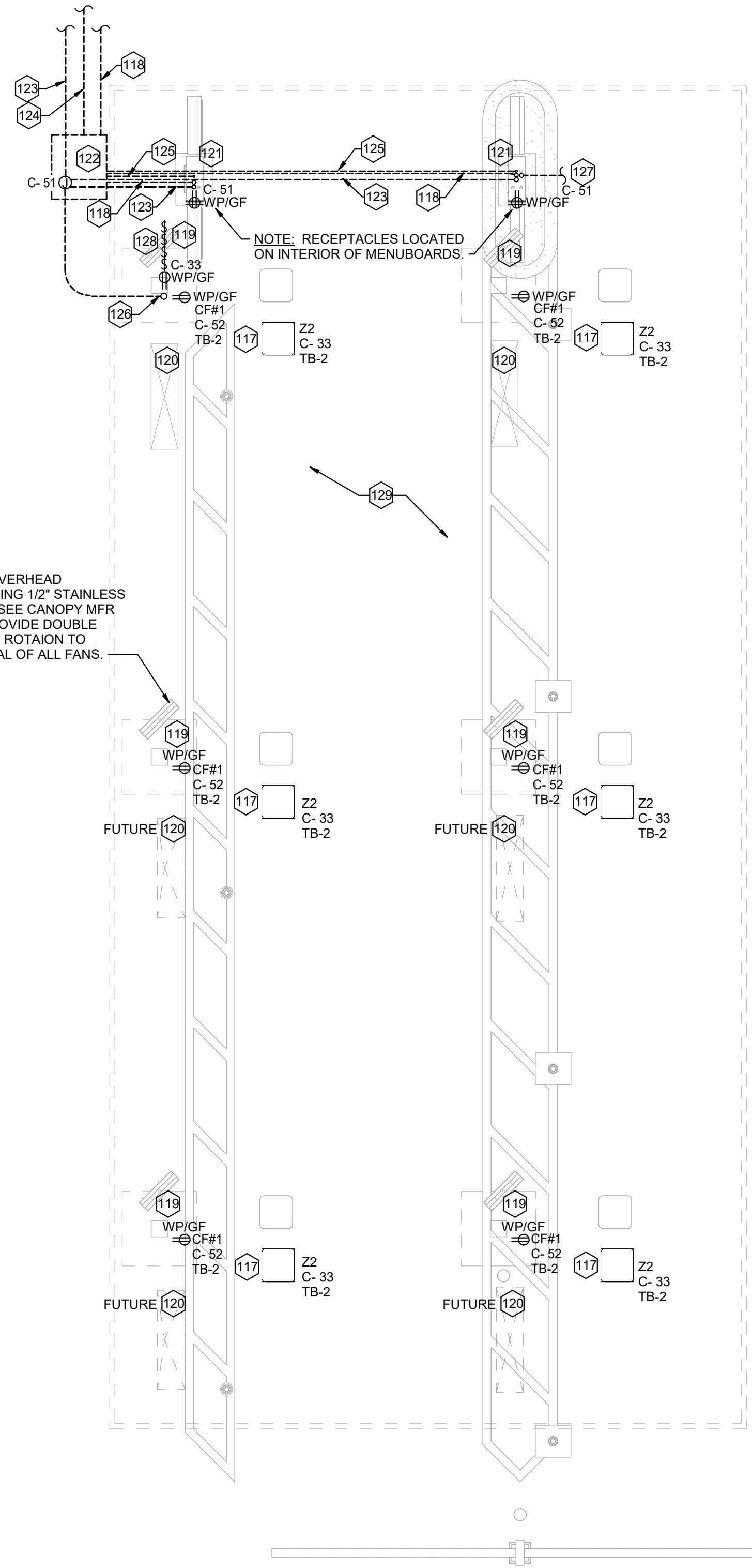
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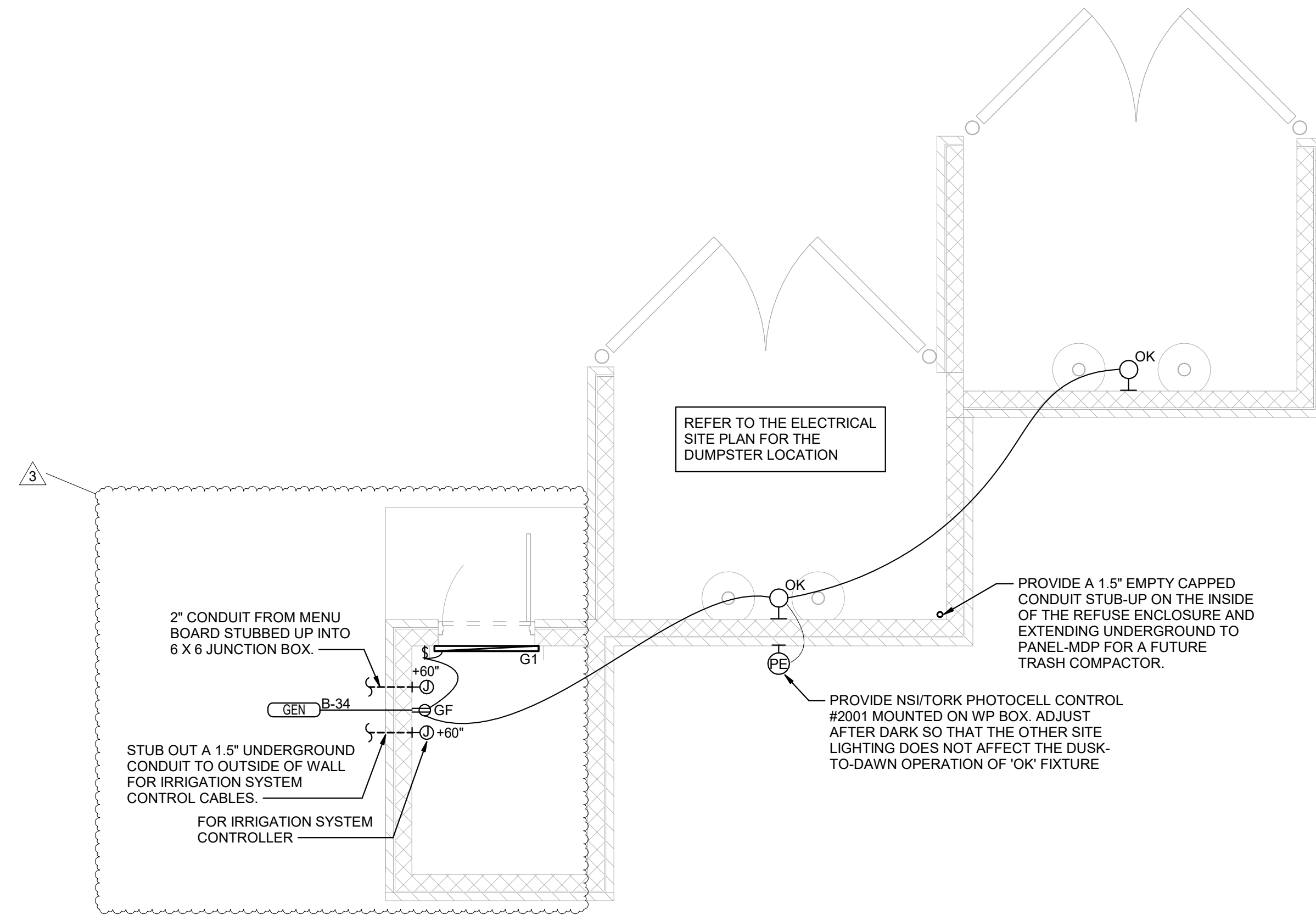
C

B

A



**A4 MLOP ORDER CANOPY POWER PLAN**  
1/4" = 1'-0"



**C1 REFUSE ENCLOSURE ELECTRICAL PLAN**  
1/4" = 1'-0"

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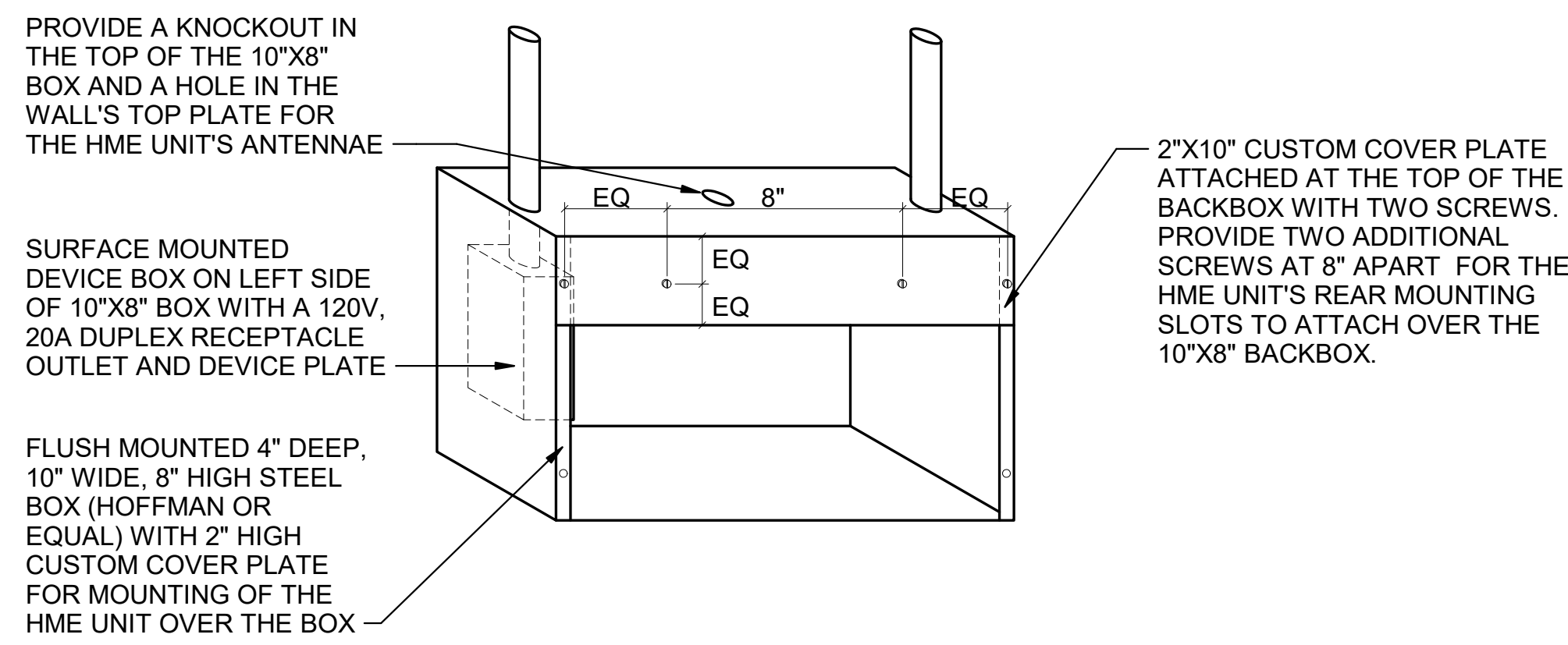
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CONSULTANT PROJECT #	23-3821.00
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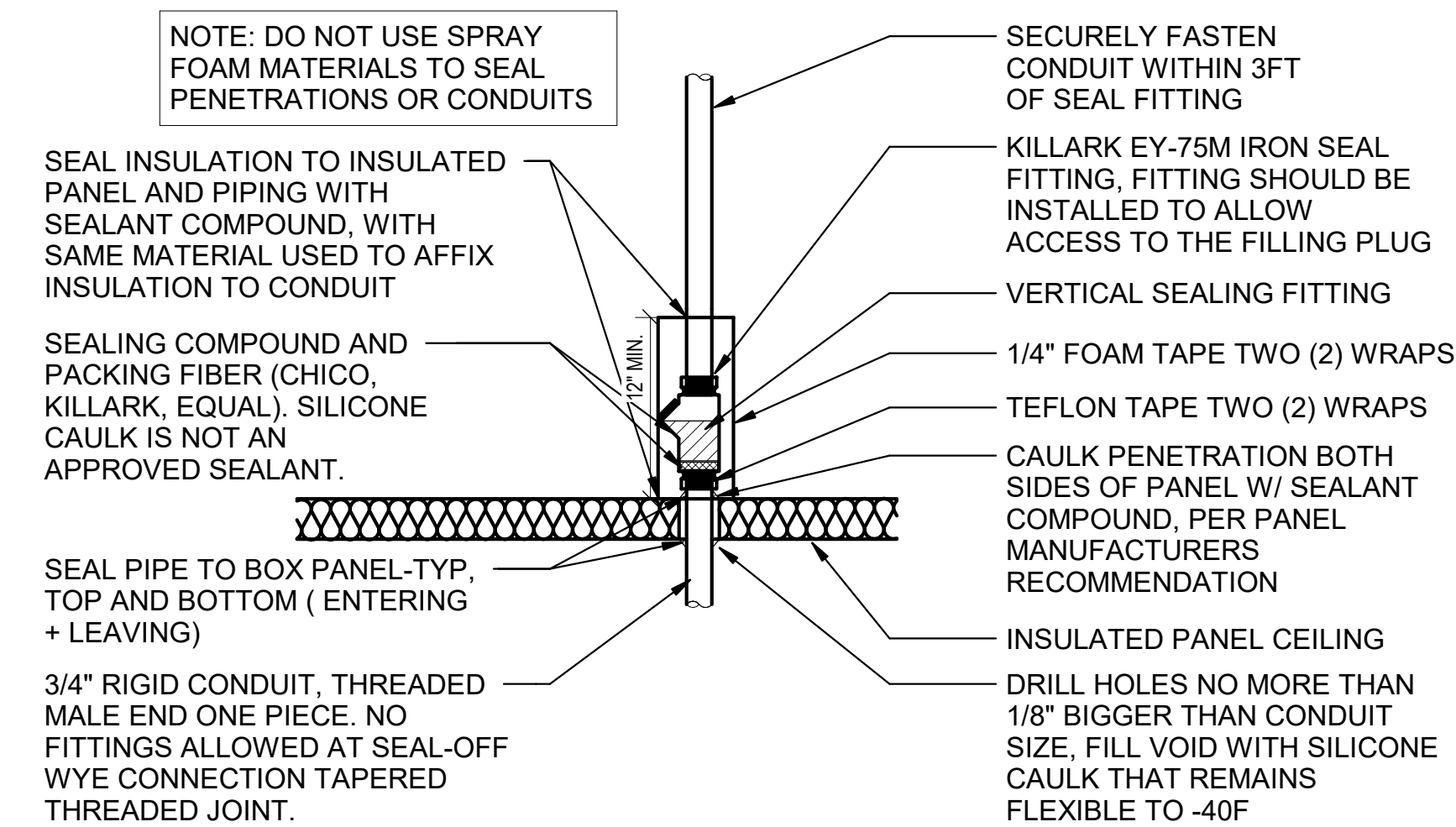
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**ORDER CANOPY PLAN AND REFUSE ENCLOSURE**

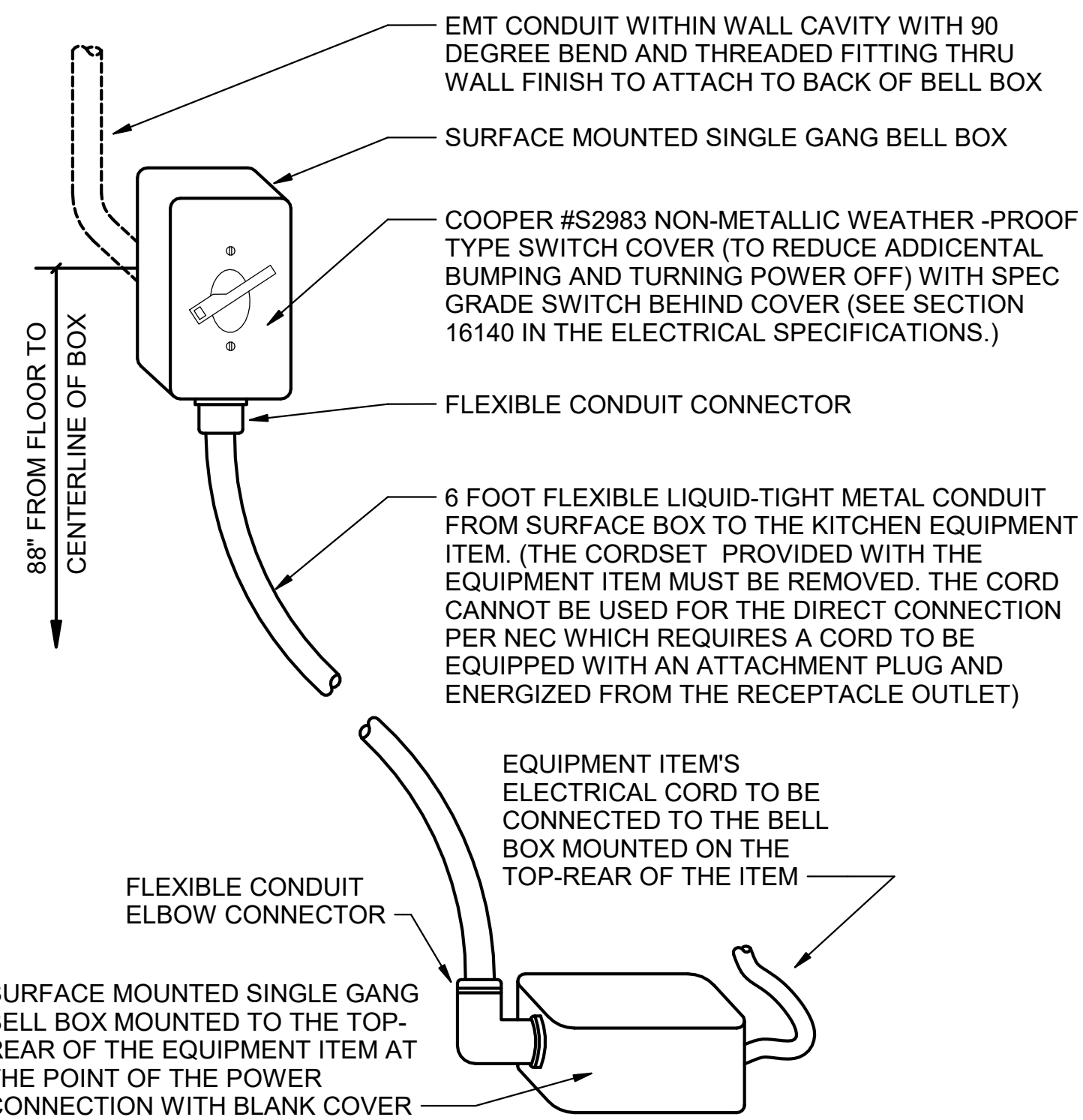
SHEET NUMBER  
**E-404**



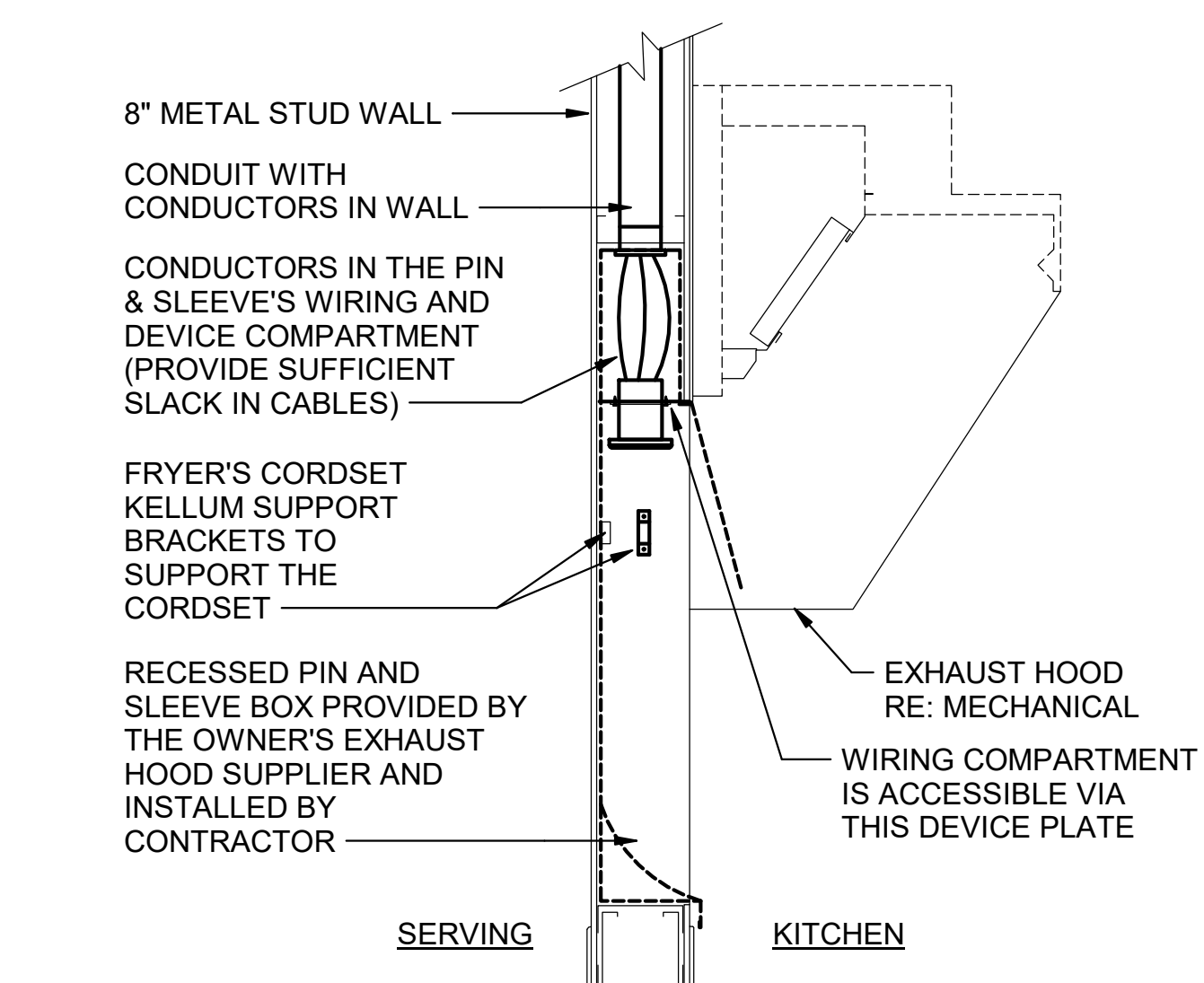
**E3 HME UNIT POWER & DATA BOX DETAIL**  
N.T.S.



**E2 OPEN-CLOSED CONTROL SWITCH**  
N.T.S.

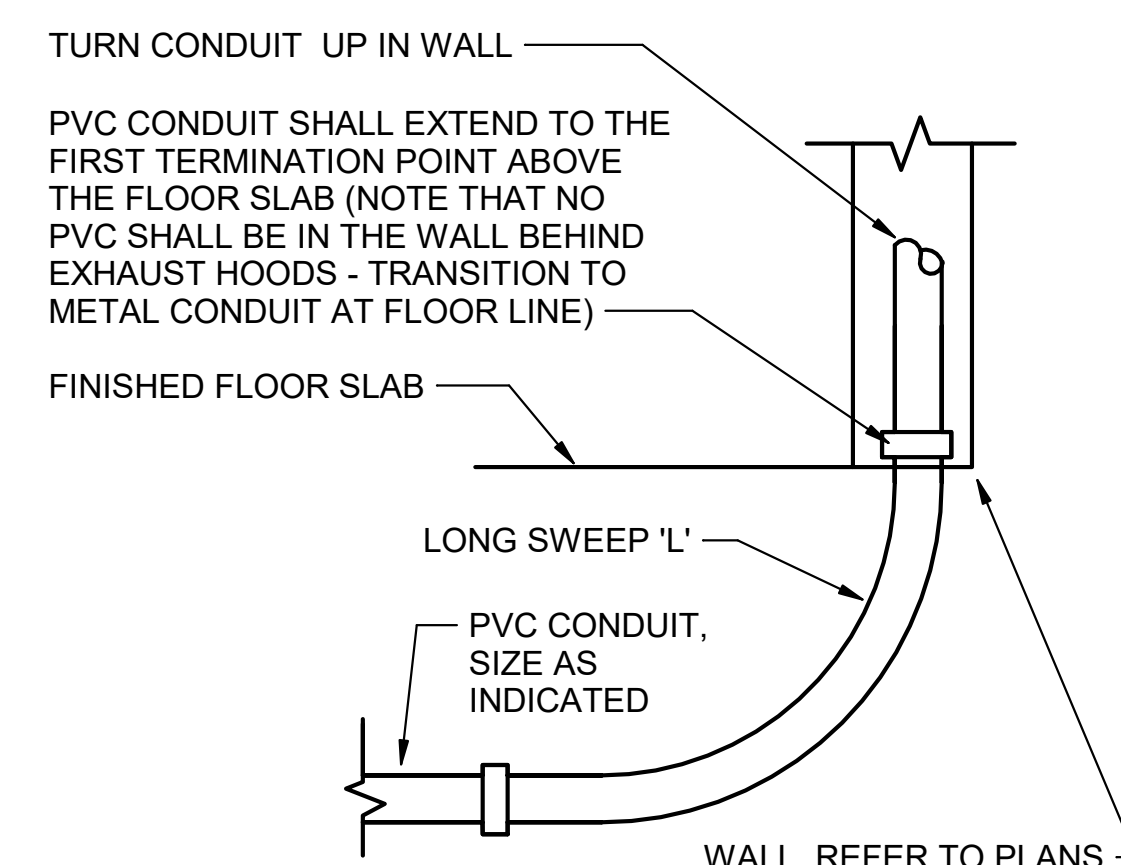


**E3 WIC/WIF SEAL-OFF DETAIL**  
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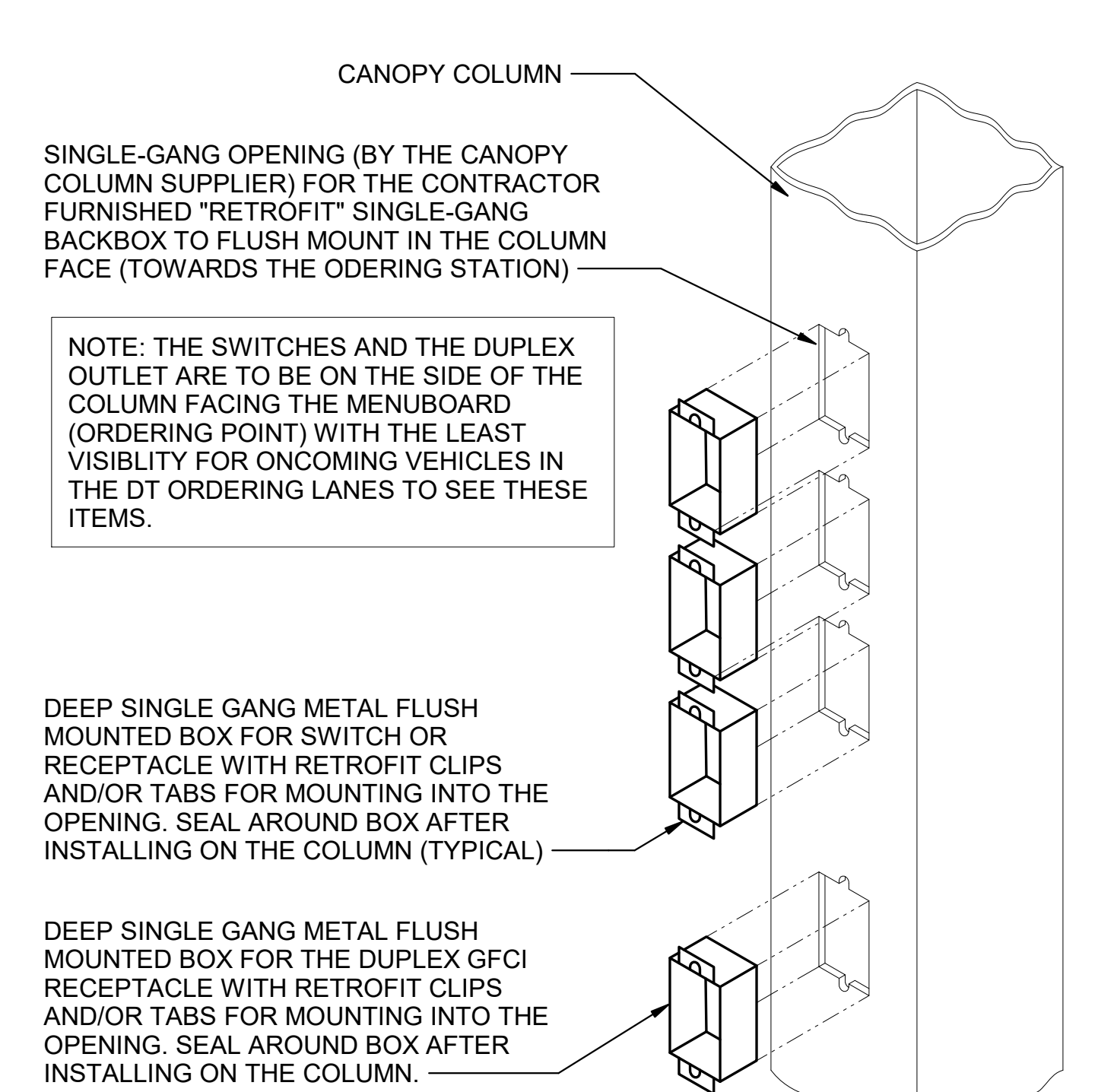


**E2 DIRECT CONNECTION - WALL LOCATION**  
N.T.S.

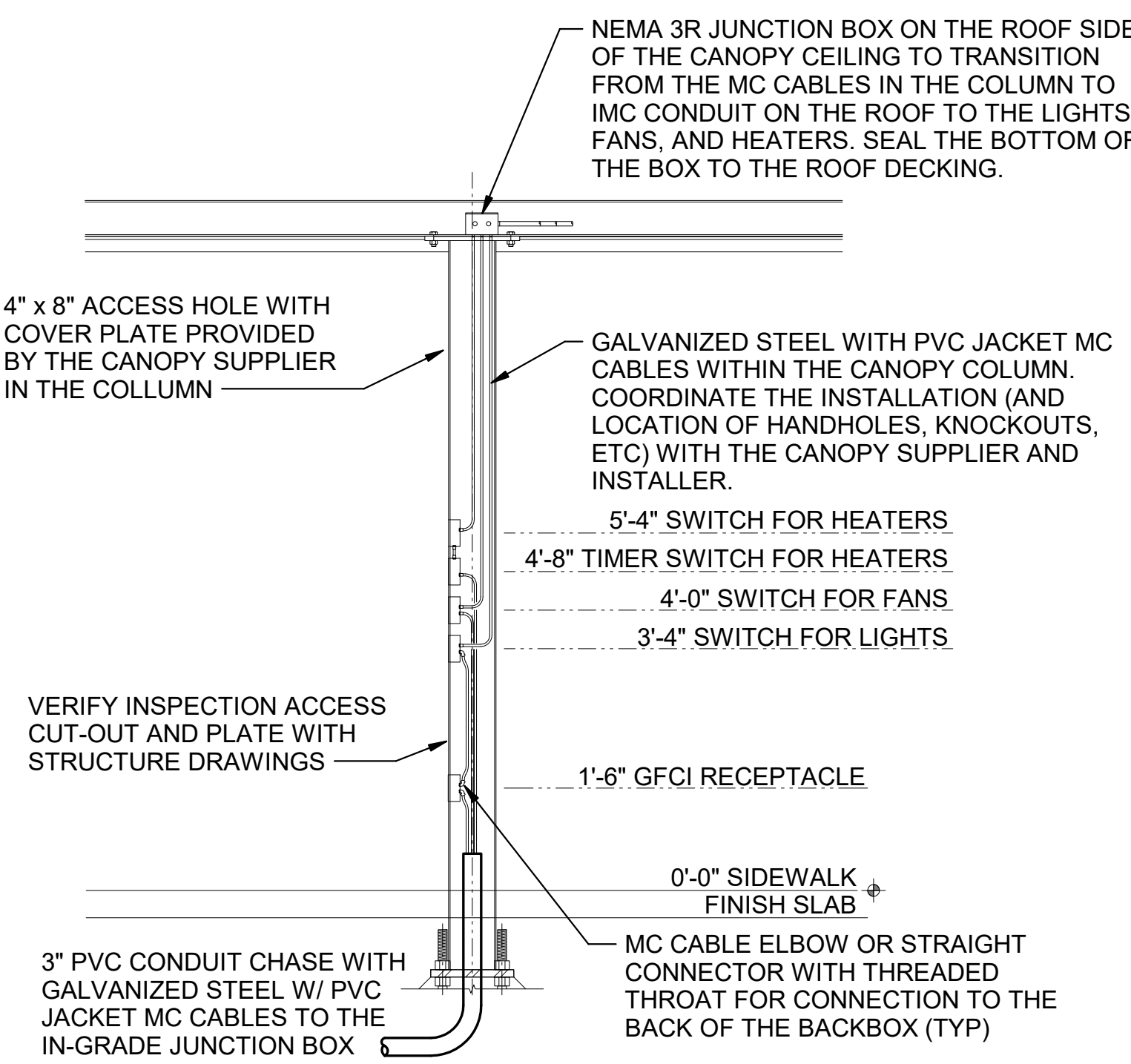
**B2 DIRECT CONNECTION - ISLAND LOCATION**  
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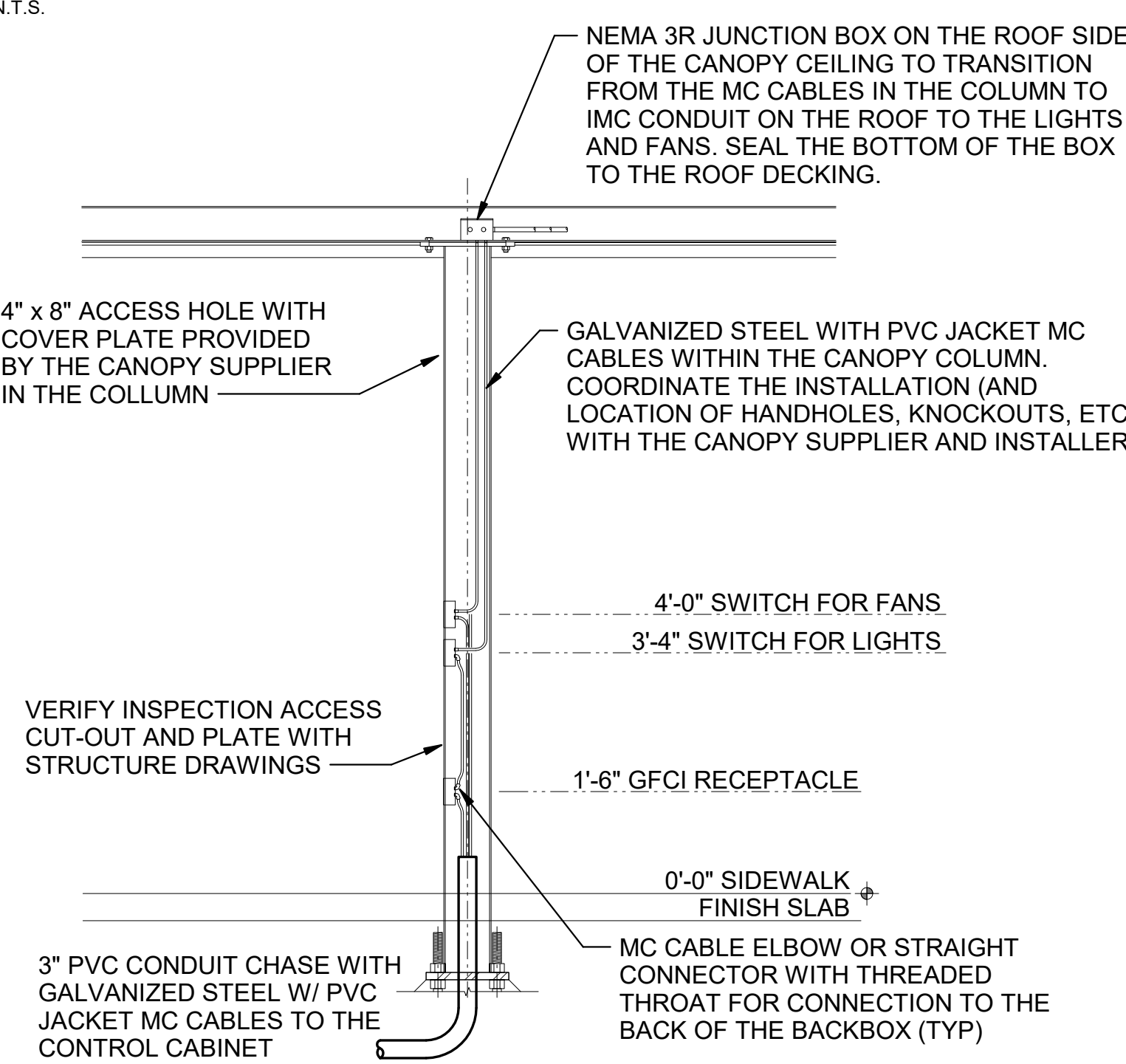
**A2 INTERIOR PVC CONDUIT DETAIL**  
N.T.S.



**D1 CANOPY COLUMN ISOMETRIC**  
N.T.S.



**B1 MLOP ORDER CANOPY COLUMN SECTION**  
N.T.S.

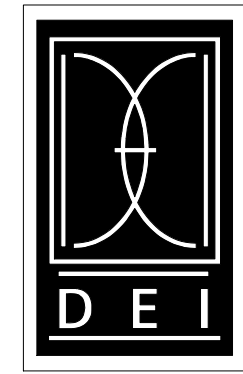


**A1 MEAL DELIVERY CANOPY COLUMN SECTION**  
N.T.S.



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**FSR#05788**

BUILDING TYPE / SIZE: P14 SE BN  
RELEASE: 23.09  
PRINTED FOR:  
**ISSUED FOR CONSTRUCTION**

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 23-3821.00  
DATE 04/26/2024  
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**DETAILS**  
SHEET NUMBER

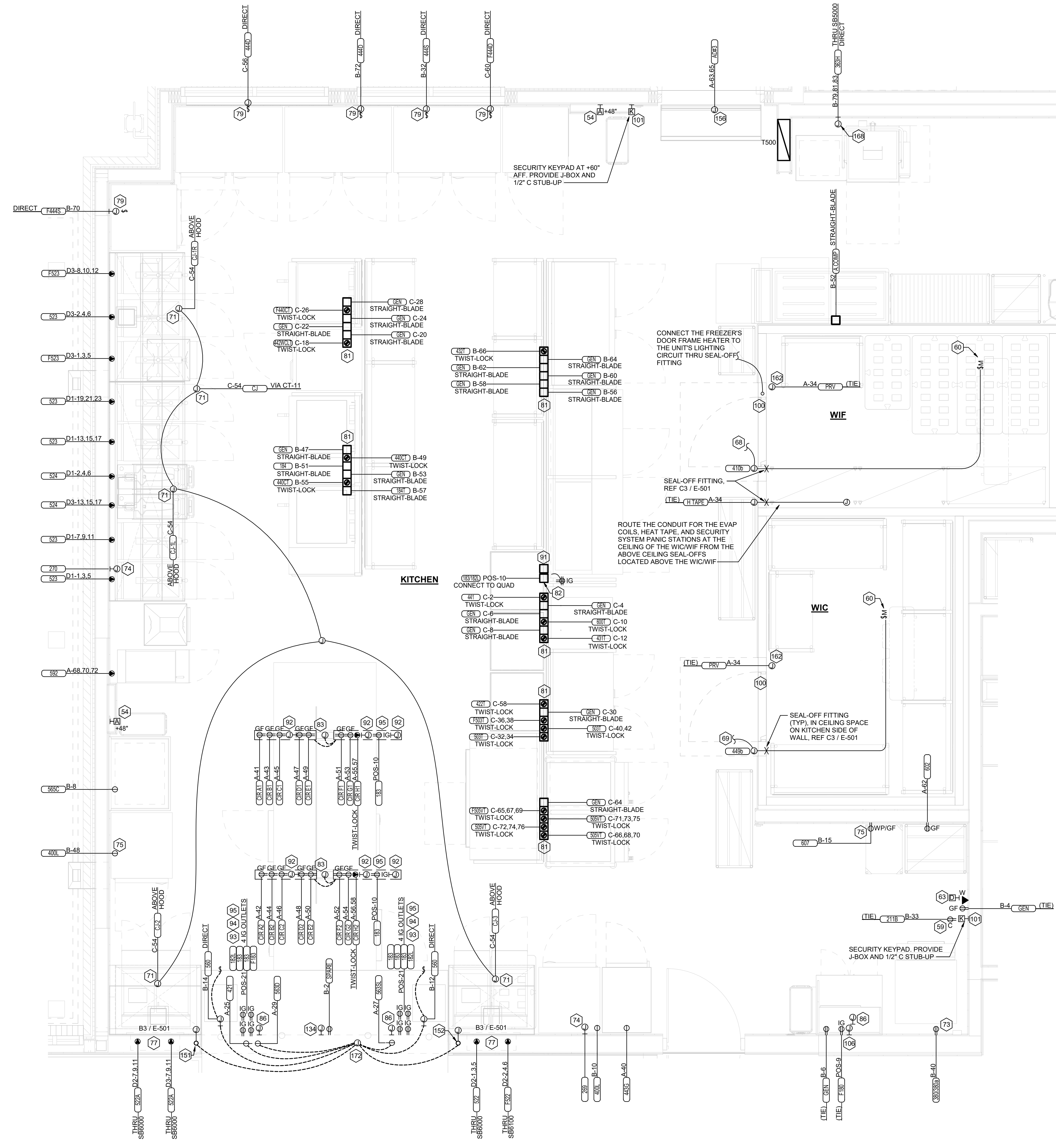
**ELECTRICAL KEYNOTES**

- 54 PROVIDE TWO-GANG DEEP BOX (2" MIN.) FOR FS PULL STATION. EXTEND 1/2" CONDUIT FROM BOX, STUBBED ABOVE CEILING.
- 59 PROVIDE DUPLEX RECEPTACLE (SEE ELEVATIONS FOR MTG HT) IN AN ARLINGTON #DVF2W 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.
- 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 ROOF ELECTRICAL PLAN.
- 69 CONNECT EVAPORATOR UNIT IN COOLER TO COOLER CONDENSING UNIT CONTROLS LOCATED ON ROOF. SEE THE ROOF ELECTRICAL PLAN.
- 71 CONNECT AS REQUIRED TO C.J VAN VIA THE HOOD SUPPLIED SPEED CONTROLLER. CONNECT HOMERUN VIA A RELAY IN THE CFA-T500 CONTROL SECTION.
- 73 SEE THE ROOF ELECTRICAL 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 FS SYSTEM PANEL(S). SEE FS SYSTEM WIRING DIAGRAM DETAIL ON SHEET E-002 FOR ADDITIONAL INFORMATION.
- 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.
- 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 INTERGRAL 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 TWISTLOCK PLUGS AS NOTED ON PLAN. CONTACT BRIDGID DEFRAMCSEHI 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.
- 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 (3 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.
- 92 3/4" FLEX PROVIDED FOR DATA CABLES IN CHASE.
- 93 PROVIDE 5-15R 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.
- 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 SECURITY KEYPAD. 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.
- 152 PROVIDE J-BOX WITH 1" FLEX CONDUIT FROM ACCESSIBLE CEILING SPACE DOWN WALL TO ELECTRICAL CHASE IN MILLWORK STUBBED OUT AT 2'-4" A.F.F. 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 C.J FANS AND LIGHTS.
- 156 AIR CURTAIN WITH MICROSWITCH FURNISHED BY MECHANICAL CONTRACTOR.
- 162 PROVIDE J-BOX AND EXPANSION RING FOR PRESSURE RELIEF VALVE ELECTRICAL CONNECTIONS TO THE WALK-IN COOLER/FREEZER. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- 168 PROVIDE IN-SIGHT DISCONNECT SWITCH IF REQUIRED BY AHJ. OTHERWISE PROVIDE PAD-LOCKING DEVICE ON BRANCH BREAKER.
- 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:**  
RECEPTACLES FOR THE POS EQUIPMENT SHALL BE THE ONLY ITEMS THAT CONNECT TO PANEL-POS. THERE SHALL BE NO OTHER LOADS CONNECTED TO THIS ISOLATED GROUND PANEL AND, IF SO, SHALL BE REMOVED AND RECONNECTED TO ANOTHER PANELBOARD AT THE EXPENSE OF THE CONTRACTOR.

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

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

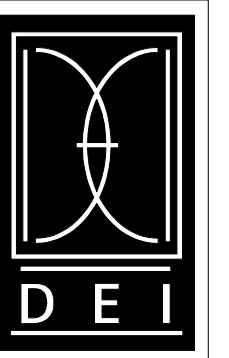


**A1 ENLARGED KITCHEN POWER PLAN**  
1/2" = 1'-0"



**Chick-fil-A**

**Chick-fil-A**  
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**CHICK-FIL-A**  
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**FSR#05788**

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SHEET

**ENLARGED KITCHEN POWER PLAN**

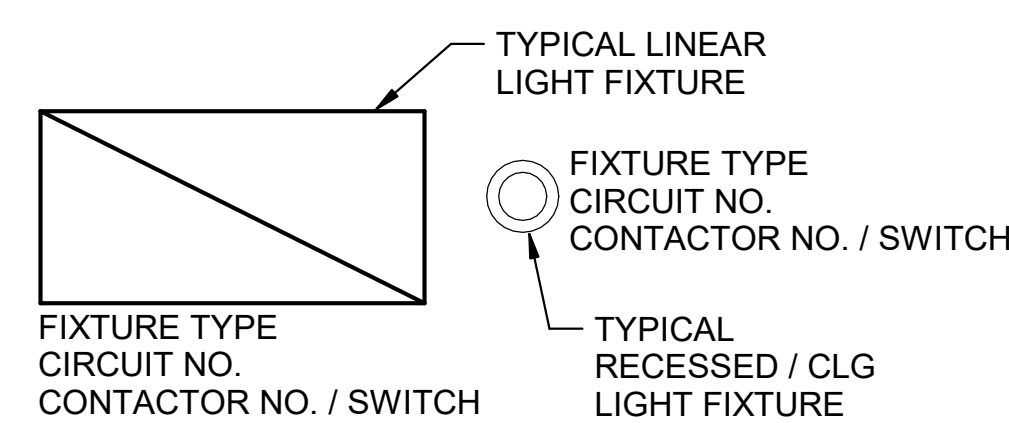
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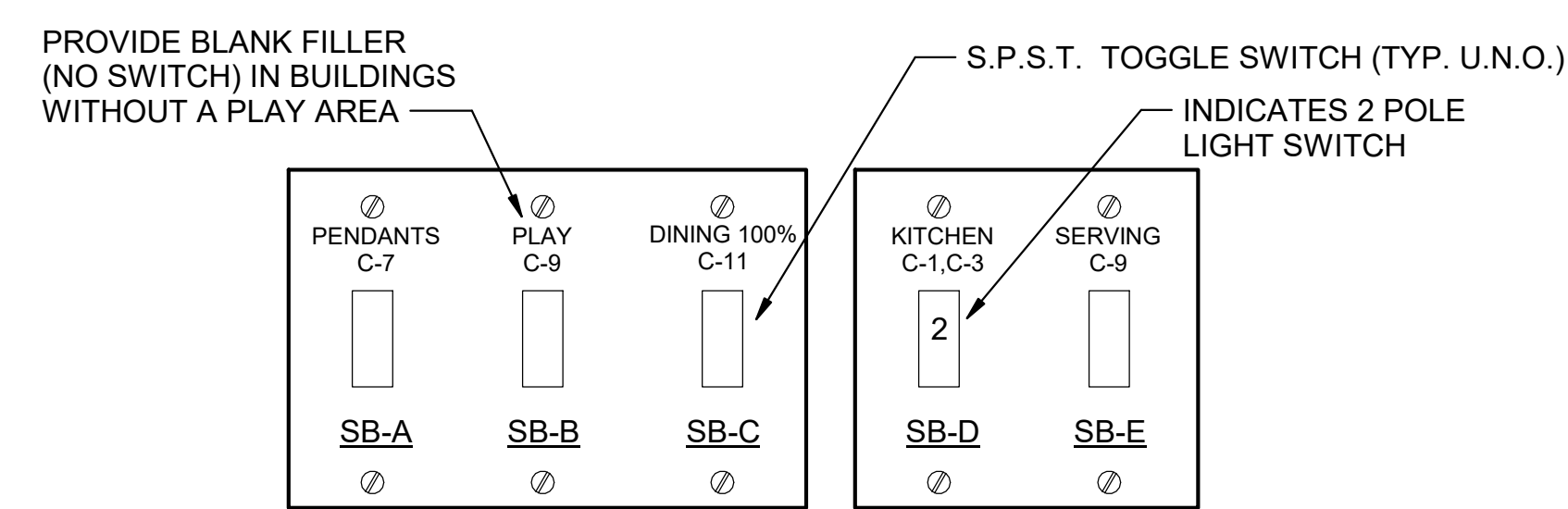
**ELECTRICAL KEYNOTES**

- 11 APPROXIMATE LOCATION OF SWITCH BANK 'SB'. SEE DETAIL ON THE LIGHTING PLAN FOR MORE INFORMATION.
- 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. SEE SHEET E-250, ROOF ELECTRICAL PLAN.
- 20 THIS FIXTURE SHALL NOT BE SWITCHED. CONNECT TO CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS.
- 22 SEE THE ROOF ELECTRICAL PLAN FOR LOCATION OF TYPE 'OC' ROOF MOUNTED FLAG POLE LIGHT. FIXTURE TO BE CONNECTED TO CIRCUIT C-29 THRU THE CFA-T500 CONTROL PANEL CONTACTOR #9 (AHEAD OF THE INVERTER, NOT THRU THE INVERTER).
- 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.
- 29 PROVIDE A CEILING MOUNTED 'DUAL TECHNOLOGY' LINE VOLTAGE OCCUPANCY SENSOR EQUIVALENT TO SENSORSWITCH #CMR-PDT-9. SENSOR SHALL CONTROL LIGHTS IN PUBLIC RESTROOM ONLY.
- 30 PROVIDE A WALL MOUNTED LINE VOLTAGE OCCUPANCY SENSOR SWITCH EQUIVALENT TO SENSORSWITCH # WSX SERIES. OCCUPANCY WITH DIMMING (WSX-D-SA-WH) SHOULD BE PROVIDED IN TEAM MEMBER ROOM. OCCUPANCY WITHOUT DIMMING (WSX-SA-WH) SHALL BE PROVIDED IN EMPLOYEE TOILET, TECH CLOSET, AND OFFICE. WIRE LIGHTS IN ROOM UPSTREAM OF T-500 CONTACTOR.
- 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 FOR THE BATTERY IN THE INVERTER. WHEN POWER IS DISRUPTED ON THE UNSWITCHED LEG, THEN THE INVERTER'S BATTERY WILL ENERGIZE THE LIGHTS CONNECTED TO THE INVERTER NO MATTER THE TIME OF DAY. PROVIDE CONNECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 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 GFCI 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 GAS 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 MATTE 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.

**B1 LIGHTING PLAN**  
1/4" = 1'-0"



**B4 LIGHT FIXTURE NOMECLATURE**  
N.T.S.



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.

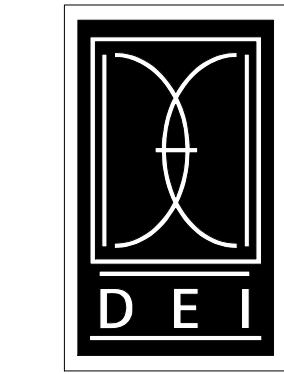
**A4 SWITCH BANK "SB" DETAIL**  
NO SCALE

LIGHTING FIXTURE (LUMINAIRE) SCHEDULE - CHICK-FIL-A P14 EDITION									
MARK	MANUFACTURER	CATALOG NUMBER	NO. LAMPS/TYPE	WATTS	VOLTS	MOUNTING	REMARKS		
A2	COOPER/METALLUX	Z2F4240C	INTEGRAL WITH FIXTURE	39 VA	120 V	RECESSED	2X2 LED FLAT PANEL		
A2E	COOPER/METALLUX	Z2F4240C	INTEGRAL WITH FIXTURE	39 VA	120 V	RECESSED	2X2 EMERGENCY LED FLAT PANEL		
B1	COOPER/METALLUX	2VT3-LD5-4-G-120V-L840-CD1-SSL-U	INTEGRAL WITH FIXTURE	32 VA	120 V	SURFACE	MOUNT LIGHT TO BTM OF OVERHEAD WIRE SHELVING WITH CORD & PLUG		
D3	COOPER/HALO	HC6200D10-HM60525830-6INDC	INTEGRAL WITH FIXTURE	21 VA	120 V	RECESSED	LED DOWNLIGHT WITH CLEAR REFLECTOR & TRIM RATED 2000 LUMENS, 3000K COLOR TEMP		
D3E	COOPER/HALO	HC6200D10-HM60525830-6INDC/EM	INTEGRAL WITH FIXTURE	21 VA	120 V	RECESSED	SAME AS D3 EXCEPT WITH EMERGENCY BATTERY PACK/INTEGRAL TEST SWITCH		
G1	COOPER/METALLUX	4SLSTP4040DD-UNV	INTEGRAL WITH FIXTURE	44 VA	120 V	SURFACE	4760 LUMEN 4 FOOT LENSED LED STRIPLIGHT. MTD ABOVE DOOR FRAME OR CEILING		
G1E	COOPER/METALLUX	4SLSTP4040DD-UNV-EBLED7W	INTEGRAL WITH FIXTURE	44 VA	120 V	SURFACE	4760 LUMEN 4 FOOT LENSED LED STRIPLIGHT WIREMOUNT EM BATTERY PACK, MTD ABOVE DOOR FRAME OR CEILING		
N	GEORGE KOVACS	P5040-66A-L		12 VA	120 V	WALL	LAVATORY WALL SCENCE CL ON LAVATORY		
OA	PROGRESS LIGHTING	P5675-31/30K WITH P860038 TOP COVER LENS		34 VA	120 V	WALL	5" DIAMETER, 14" HEIGHT, WET LOCATION, UP/DOWN CYLINDER		
OC	HUBBELL	FLI-42L-95-4K-7-N-U-K-DB (SEE NOTE 3)		97 VA	120 V	PIPE	FLOODLIGHT MTD ON ROOF ON 2" PIPE SUPPORT (BY OTHERS) AND AIMED AT FLAG AFTER DARK		
OD1	COOPER/LUMARK	LUMINAIRE: PRV-C40D-UNV-T3-SA-BZ, POLE: SSS-4A-25-SFM-1-4 (SINGLE LUMINAIRE)		131 VA	208 V	POLE W/ CONCRETE BASE	SINGLE HEAD LED PARKING LOT LIGHT W/ TYPE 3 DISTRIBUTION		
OD2	COOPER/LUMARK	LUMINAIRE: PRV-C40D-UNV-T4-SA-BZ, POLE: SSS-4A-25-SFM-1-4 (SINGLE LUMINAIRE)		131 VA	208 V	POLE W/ CONCRETE BASE	SINGLE HEAD LED PARKING LOT LIGHT W/ TYPE 4 DISTRIBUTION		
OD3	COOPER/LUMARK	LUMINAIRE: (2) PRV-C40D-UNV-T5-SA-BZ, POLE: SSS-4A-25-SFM-2-4 (TWO LUMINAIRES AT 180 DEGREES)		262 VA	208 V	POLE W/ CONCRETE BASE	DOUBLE HEAD LED PARKING LOT LIGHT W/ TYPE 5 DISTRIBUTION		
OK	HUBBELL	LNC-SLU-3K-3-1		13 VA	120 V	WALL	LED WALL PACK W/ CENTERLINE OF FIXTURE AT 8'-0" ABV 0'-0" (FINISH FLOOR LINE)		
P1	MEYDA	142776		22 VA	120 V	PENDANT	31" DIA PEACH BASKET PENDANT WITH BTM AT 8'-0" AFF		
S	HI-LITE MFG	H-16112-91-B-13-91-CGU-CLR-91-23W-LED430-WBCM-M		23 VA	120 V	SURFACE	ANGLED GOOSENECK STEM-HUNG FIXTURE, SUITABLE FOR WET-LOCATION		
U	BESA LIGHTING	BE500298-060	FURNISHED	9 VA	120 V	PENDANT	RED FRIT GLASS, BRONZE CABLE & CANOPY, 8'-0" AFF		
W	HOWARD LIGHTING	EVSL44040MVS		40 VA	120 V	SURFACE	50" VAPOR TIGHT LED FIXTURE PROVIDED BY THERMO-KOOL		
XA	COOPER/SURE-LITES	APCH7R		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/HALO	SLD405930WH		12 VA	120 V	RECESSED	LED DOWNLIGHT PROVIDED BY CANOPY SUPPLIER INSTALLED BY CANOPY SUPPLIER, CONNECTION TO ELECTRICAL CONTRACTOR		
Z2	LSI	CRUS-SC-LED-LW30-UE-WHT		74 VA	120 V	RECESSED	CANOPY LIGHT PROVIDED BY CANOPY SUPPLIER AND INSTALLED BY ELECTRICAL CONTRACTOR		

NOTES:  
 1. THE LIGHTING FIXTURE PACKAGE IS AVAILABLE THROUGH A NATIONAL ACCOUNT PROGRAM. REFER TO THE ELECTRICAL SPECIFICATIONS SHEET, SECTION C165500 FOR VENDOR INFORMATION.  
 2. THE ASTERISK (\*) BESIDE THE FIXTURE MAKE IN THE ABOVE SCHEDULE INDICATES THE FIXTURE IS A NON-PROTOTYPICAL LIGHT FIXTURE PER THE CFA NATIONAL P14 PROTOTYPE.  
 3. IF TYPE OC IS GROUND MOUNTED IN LIEU OF ROOF MOUNTED, PROVIDE EITHER THE FLI-VISOR-D8 (VISOR) OR THE FLI-LOUVER-R6L (LOUVER) OF GLARE CONTROL.



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**CHICK-FIL-A**  
 FARMINGTON FSU  
 941 VALLEY CREEK DRIVE  
 FARMINGTON, MO 63640

**FSR#05788**  
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 RELEASE: 23.09  
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2	03/29/2024	OWNER CHANGES
3	04/26/2024	ISSUED FOR CONSTRUCTION

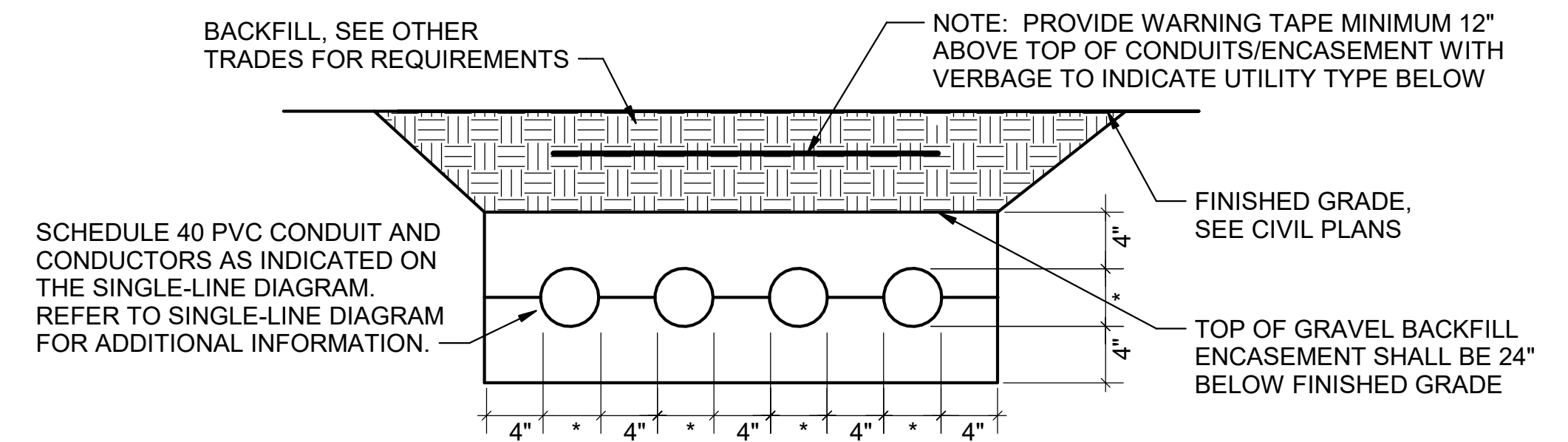
CONSULTANT PROJECT # 23-3821.00  
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**LIGHTING PLAN**

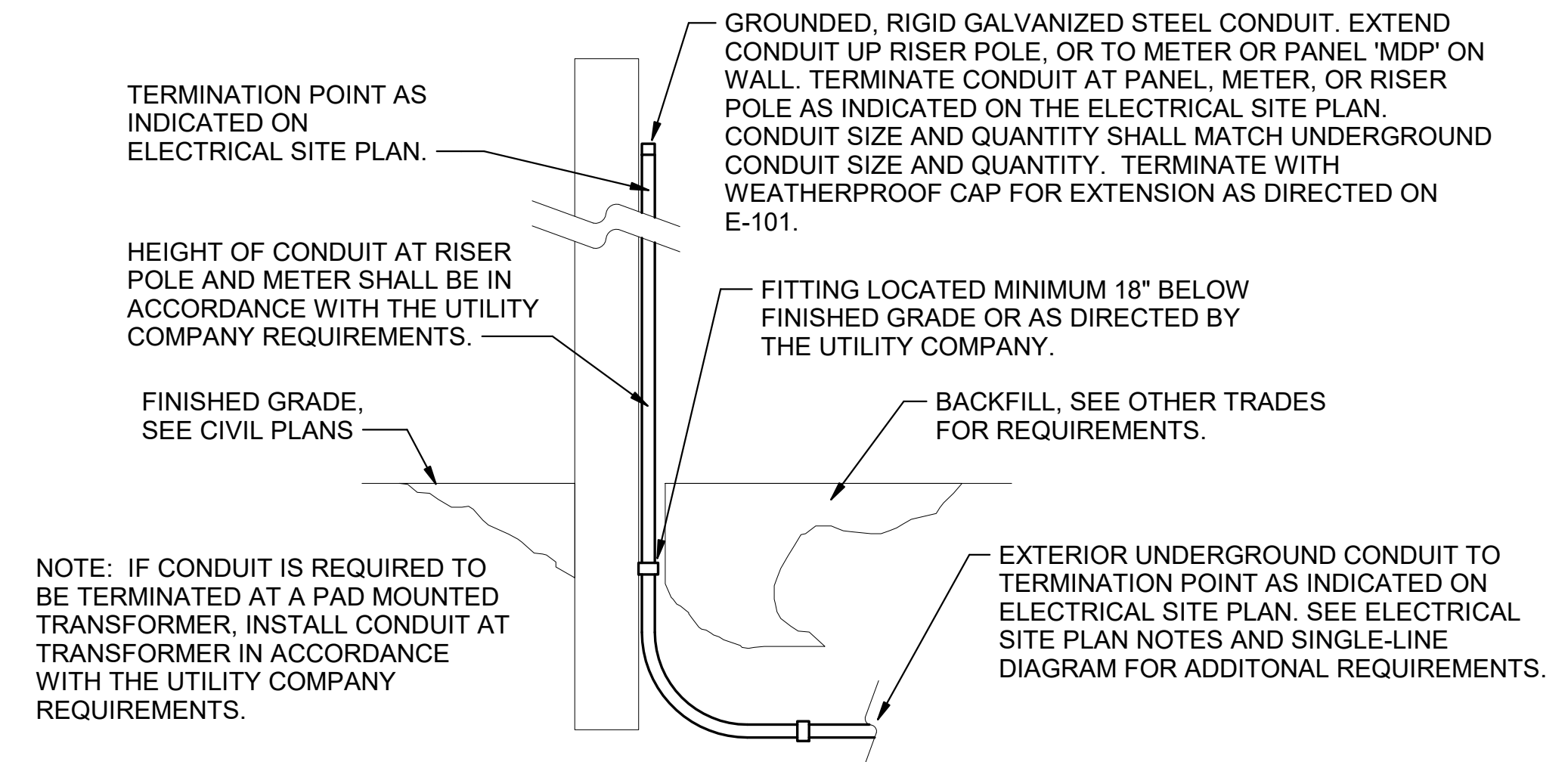
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**E-103**

4/26/2024 7:39:53 AM Autodesk Docs://MO\_05788\_Farmington FSU\_2024.1\_FSR05788\_Farmington FSU\_ELE.rvt 50-SE-05788-E-103-LIGHTING PLAN

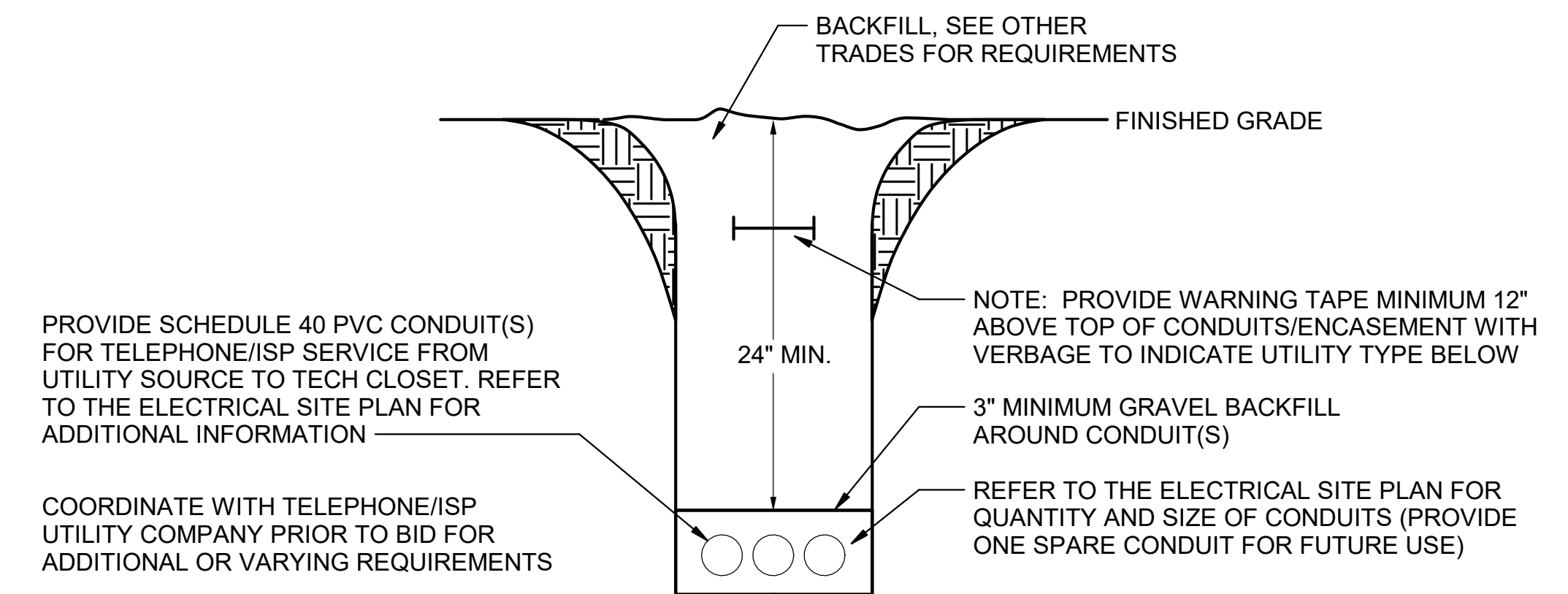


NOTE: WHERE THE SECONDARY CONDUITS FROM THE UTILITY TRANSFORMER TO THE CURRENT TRANSFORMER CABINET (OR MAIN PANELBOARD) ARE FURNISHED BY THE UTILITY COMPANY (FOR INSTALLATION BY THE CONTRACTOR) OR ARE FURNISHED AND INSTALLED BY THE UTILITY COMPANY, THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH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

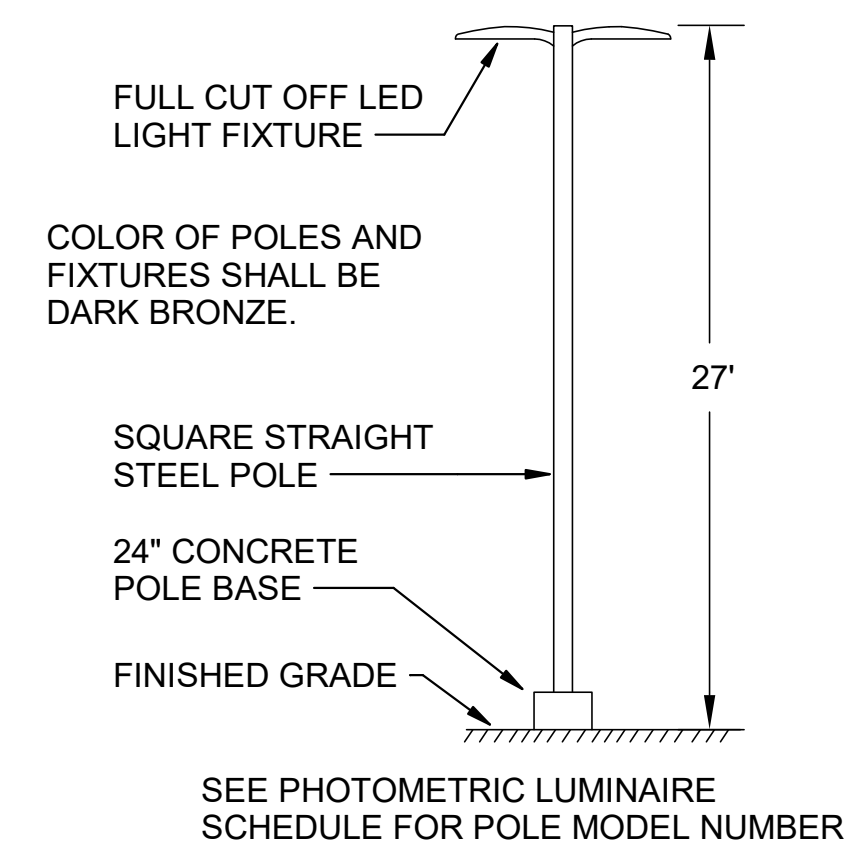
**E1 ELECTRICAL SERVICE LATERAL CONDUIT DETAIL**  
N.T.S.



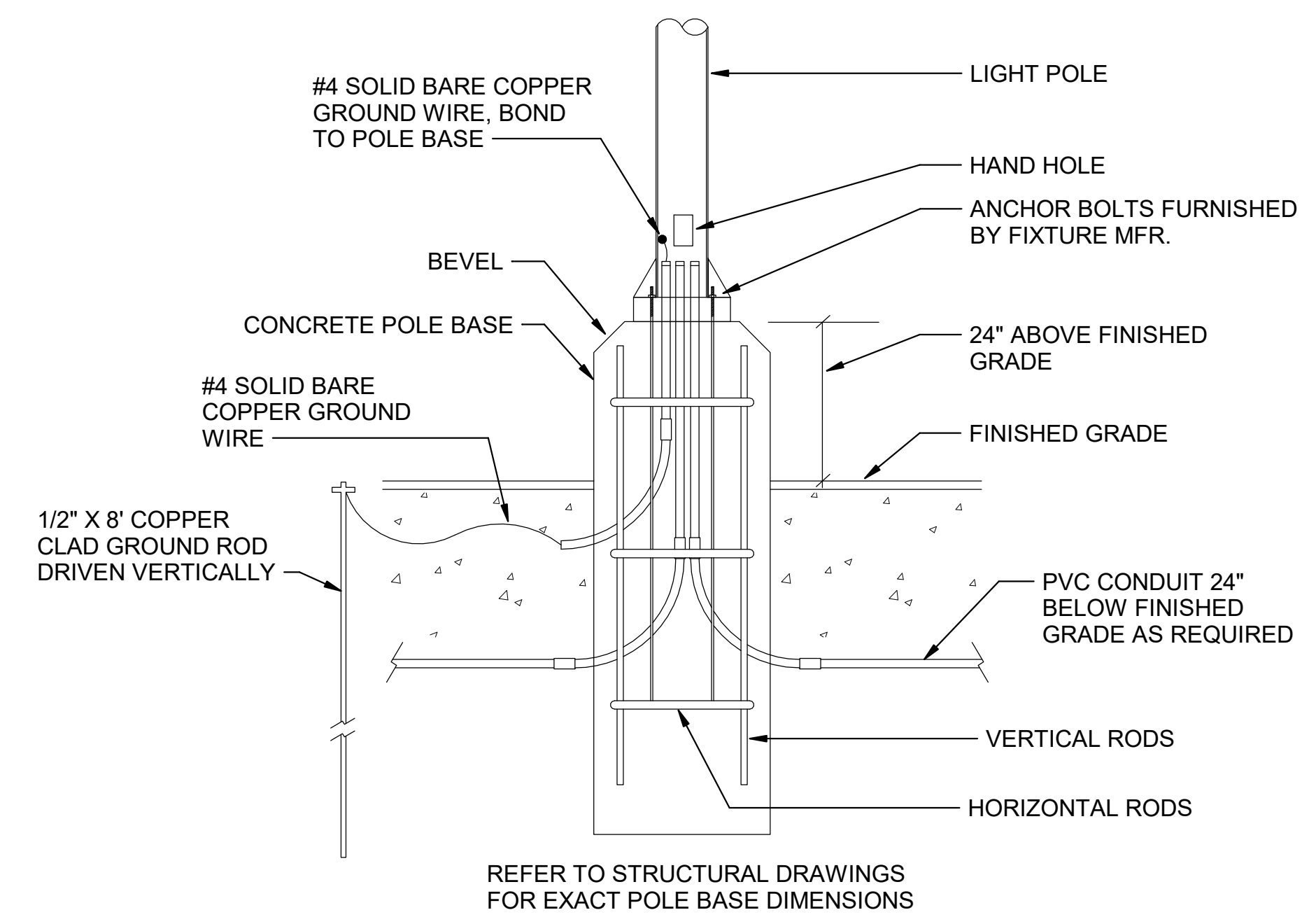
**C1 EXTERIOR CONDUIT TURN UP DETAIL**  
N.T.S.



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



**A3 SITE LIGHTING POLE DETAIL**  
N.T.S.



**A1 TYPICAL LIGHT POLE BASE DETAIL**  
N.T.S.



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DEI #: 24009.11

**CHICK-FIL-A**  
**FARMINGTON FSU**  
941 VALLEY CREEK DRIVE  
FARMINGTON, MO 63640

**FSR#05788**

BUILDING TYPE / SIZE: P14 SE BN  
RELEASE: 23.09

PRINTED FOR

**ISSUED FOR CONSTRUCTION**

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

SHEET NUMBER  
**E-502**

### Distribution Panel: MDP

LOCATION: OUTSIDE  
SUPPLY FROM: UTILITY  
MOUNTING: SURFACE  
ENCLOSURE: 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: 100%

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT	
1	1	PANEL-A (SUB-FEEDS PANEL POS)	250 A	3	31.49	33.22				3 250 A	PANEL-B	2	1
3	1					31.73	33.36					4	1
5	1							31.71	33.71			6	1
7	1	PANEL-C	250 A	3	30.07	13.32				3 150 A	ROOFTOP UNIT (25 TN) AC#1	8	1
9	1					30.76	13.32					10	1
11	1							29.73	13.32			12	1
13	1	PANEL-D1	250 A	3	21.15	22.34				3 250 A	PANEL-D2	14	1
15	1					21.64	22.34					16	1
17	1							21.03	22.34			18	1
19	1	ROOFTOP UNIT (12.5 TN) AC#2	90 A	3	7.62	9.50				3 110 A	ROOFTOP UNIT (15 TN) AC#3	20	1
21	1					7.62	9.50					22	1
23	1							7.62	9.50			24	1
25	1	TVSS	30 A	3	0.00	24.03				3 250 A	PANEL-D3	26	1
27	1					0.00	24.52					28	1
29	1											30	1
Total Load:					192.7 kVA	194.8 kVA		192.9 kVA					
Total Amps:					1606.1 A	1623.3 A		1607.4 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	8544 VA	100.00%	8544 VA	
KITCHEN EQUIPMENT	27819 VA	65.00%	17962 VA	
KITCHEN REFRIG EQUIPMENT	7180 VA	65.00%	4667 VA	
LIGHTING	7236 VA	125.00%	9137 VA	
LIGHTING - EXTERIOR	4361 VA	125.00%	5451 VA	
MISCELLANEOUS	5775 VA	100.00%	5775 VA	
Motor	141065 VA	107.08%	151055 VA	
RECEPTACLES	16511 VA	80.28%	13266 VA	
COOKING (100% DEMAND)	203273 VA	100.00%	203273 VA	
COOKING	93759 VA	65.00%	60943 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
580.02	0	0	377.26	0	1047.94

CALCULATION PER NEC 220.88  
(FOR NOT ALL ELECTRIC RESTAURANT LOAD)

### Branch Panel: POS

LOCATION: OFFICE 321  
SUPPLY FROM: A  
MOUNTING: SURFACE  
ENCLOSURE: NEMA 1

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

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

NT	CKT	LOAD DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	LOAD DESCRIPTION	CKT	NT	
HJG	1	COUNTER STATIONS (180,182)	15 A	1	0.819	0.180				15 A	CCTV RACK TECH CLOSET	2	IG
3	1	SPACE								SPACE	4		
5	1	SPACE								OFFICE RECEPTACLE (COMP)	6	IG	
7	1	SPACE								SPACE	8		
HJG	9	DT POS STATION (180,182)	15 A	1	0.603	0.249				15 A	CL TABLE MONITORS (183/182L)	10	I,IG
11	1	SPACE								SPACE	12		
HJG	13	MLOP POS STATIONS (180,182) SPARE	15 A	1	0.387	0.360				15 A	NETWORK RACK TECH CLOSET	14	IG
15	1	SPACE								SPACE	16		
HJG	17	MLOP MONITORS (183) SPARE	15 A	1	0.453	0.050				15 A	ISP MODEM	18	IG
19	1	SPACE								SPACE	20		
HJG	21	PASS THRU MONITORS (183/182L)	15 A	1	0.498					15 A	SPACE	22	
23	1	SPACE								20 A	BACKED MAIN BREAKER	24	
Total Load:					3.67 kVA								
Total Amps:					30.6 A								

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
MISCELLANEOUS	3129 VA	100.00%	3129 VA	
RECEPTACLES	540 VA	100.00%	540 VA	
Total Conn. Load: 3.7 kVA				
Total Est. Demand: 3.7 kVA				
Total Conn.: 30.6 A				
Total Est. Demand: 30.6 A				

#### GFCI REQUIREMENTS PER 2020 NEC:

THE CONTRACTOR SHALL PROVIDE GROUND FAULT PROTECTION FOR ALL RECEPTACLE OUTLET BRANCH CIRCUITS IN THE KITCHEN / FOOD PREPARATION AREAS IN ACCORDANCE WITH THE 2020 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.

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

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

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

(E) CONTROLLED BY PARKING LOT LIGHTING CONTROL SWITCH.

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

(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.

(IG) ISOLATED GROUND.

(J) 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.

(SB) HIGH MAG LOAD.

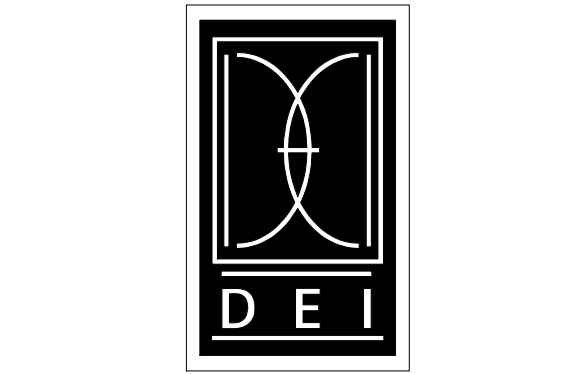
(S) THRU (1) SB6100-020-0 GFCI PROTECTION DEVICE IN SB6000 PANEL ENCLOSURE OR (1) SB6100-021-0 GFCI PROTECTION DEVICE SURFACE MOUNTED ENCLOSURE FOR 80 AMP FRYERS; OR (1) SB5060-021-0 GFCI PROTECTION DEVICE SURFACE MOUNTED ENCLOSURE FOR 60 AMP DISHWASHER.

(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.



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DEI # 24093.11

### Branch Panel: A

LOCATION: RISER  
SUPPLY FROM: MDP  
MOUNTING: SURFACE  
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	
H	1	DRIVE-THRU VIDEO MONITOR (190)	20 A	1	0.456	1.656				20 A	TEA BREWER (305)	2	I
3	1	OFFICE GEN OUTLETS & PRINTER	20 A	1		0.395	1.656			20 A	TEA BREWER (305)	4	I
5	1	OFFICE GEN OUTLETS & MUSIC (668)	20 A	1			0.720	0.720		20 A	GENERAL OUTLETS	6	
9	1	GENERAL OUTLETS	20 A	1	0.720	1.440				20 A	GENERAL OUTLETS	8	
9	1	GENERAL OUTLETS	20 A	1		0.360	3.669			15 A	PANEL-POS THRU PIB	10	M
11	1	GENERAL OUTLETS (CO2)	20 A	1			0.180	0.180		20 A	DARPRO OIL TANK	12	I
H	13	GENERAL OUTLETS	20 A	1	0.540	0.095				15 A	TECH CLOS. FAN TF#1	14	
H	15	SPARE SINGLE U.C. REF (420)	20 A	1		0.564	0.480			15 A	SECURITY SYSTEM	16	L
H	17	SINGLE U.C. REF (420L)	20 A	1		0.564	0.749			3 15 A	COOLER CONDENSER/EVAP COIL (449)	18	LO
H	19	SINGLE U.C. REF (420)	20 A	1	0.564	0.749						20	--
21	1	SINGLE U.C. REF (420L)	20 A	1		0.564	0.690					22	--
23	1	SINGLE U.C. REF (420L)	20 A	1		0.564	0.000			20 A	SPARE	24	--
I	25	DOUBLE U.C. REF (421)	20 A	1	0.756	1.752				3 35 A	FREEZER CONDENSER/EVAP COIL (410)	26	LO
I	27	SINGLE SANDWICH SLIDE (563SL)	20 A	1		0.547	1.908			--	--	28	LO
I	29	DOUBLE SANDWICH SLIDE (563D)	20 A	1		1.096	1.908			--	--	30	--
I	31	CARBONATOR (320)	20 A	1	0.744	0.180				20 A	GEN OUTLET TECH CLOSET	32	
I	33	CARBONATOR (320)	20 A	1		0.744	0.546			20 A	FREEZER HEAT TAPE/PR VALVES (410)	34	F
I	35	CARBONATOR (320)	20 A	1		0.744	0.000			20 A	SPARE	36	
I	37	CARBONATOR (320)	20 A	1	0.744	0.180				20 A	GEN OUTLET TECH CLOSET	38	
39	1	SPARE	20 A	1		0.000	0.960			20 A	SINGLE UPRIGHT REF(443C)	40	I
41	1	CIR A1-HOT HOLDING CABINET (562A)	20 A	1		1.920	1.920			20 A	CIR A2-HOT HOLDING CABINET (562A)	42	I
43	1	CIR B1-VERTICAL TOASTER (500A)	20 A	1	1.800	0.660				20 A	CIR B2-HOT HOLDING CABINET (564B)	44	I
45	1	CIR C1-GENERAL OUTLET (122)	20 A	1		0.180	0.180			20 A	CIR C2-GENERAL OUTLET (122)	46	I
47	1	CIR D1-HOT HOLDING CABINET (580H)	20 A	1			1.920	1.920		20 A	CIR D2-HOT HOLDING CABINET (580H)	48	I
49	1	CIR E1-U.C. REFRIG (420L)	20 A	1	0.564	0.564				20 A	CIR E2-U.C. REFRIG (420L)	50	I
51	1	CIR F1-HOT HOLDING CABINET (564B)	20 A	1		0.180	0.660			20 A	CIR F2-HOT HOLDING CABINET (564B)	52	I
53	1	CIR G1-VERTICAL TOASTER (500A)	20 A	1		1.800	0.852			20 A	CIR G2-COLD RAIL (39L)	54	I
I	55	CIR H1-RADIANT TOASTER (500B)	30 A	2	2.496	2.496				2 30 A	CIR H2-SPARE/FUTURE (500B)	56	I
--	57	--	20 A	1		2.496	2.496			--	--	58	--
--	59	BOOSTER PUMP	20 A	2		1.144	0.360			20 A	CCTV RACK TECH CLOSET	60	
--	61	--	20 A	2	1.144	0.384				20 A	OPTIONAL SALAD SPINNER	62	H
63	1	UNHEATED AIR DOOR AD#3	20 A	2		0.374	1.272			20 A	FUTURE/RACK AC TECH CLOSET	64	I
--	65	--	20 A	1		0.374	1.272			20 A	FUTURE/RACK AC TECH CLOSET	66	--
LO	67	ICE CREAM MACHINE (300X-A)	30 A	3	2.282	2.642				3 20 A	REHEAT/MALIZER (592)	68	I
--	69	--	20 A	1		2.282	2.642			--	--	70	--
--	71	--	20 A	1		2.282	2.642			--	--	72	--
LO	73	ICE CREAM MACHINE (300X-B)	20 A	3	1.801	0.600				20 A	TRASH COMPACTOR (TC)	74	--
--	75	--	20 A	1		1.801	0.600			20 A	TRASH COMPACTOR (TC)	76	--
--	77	--	20 A	1		1.801	0.600			20 A	TRASH COMPACTOR (TC)	78	--
79	1	ROOFTOP UNIT (5 TN) AC#4	45 A	3	3.480	0.000				20 A	SPARE	80	
--	81	--	20 A	1		3.480	0.000			20 A	SPARE	82	
--	83	--	20 A	1		3.480	0.000			20 A	SPARE	84	
Total Load:					31.49 kVA	31.73 kVA		31.71 kVA					
Total Amps:					262.4 A	264.7 A		264.6 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	2544 VA	100.00%	2544 VA	
KITCHEN EQUIPMENT	4840 VA	65.00%	2886 VA	
KITCHEN REFRIG EQUIPMENT	2652 VA	65.00%	1729 VA	
MISCELLANEOUS	3675 VA	100.00%	3675 VA	
Motor	15372 VA	116.98%	17982 VA	
RECEPTACLES	6911 VA	100.00%	6911 VA	
COOKING	3546 VA	65.00%	2305 VA	

### Branch Panel: B

LOCATION: RISER  
SUPPLY FROM: MDP  
MOUNTING: SURFACE  
ENCLOSURE: NEMA 1

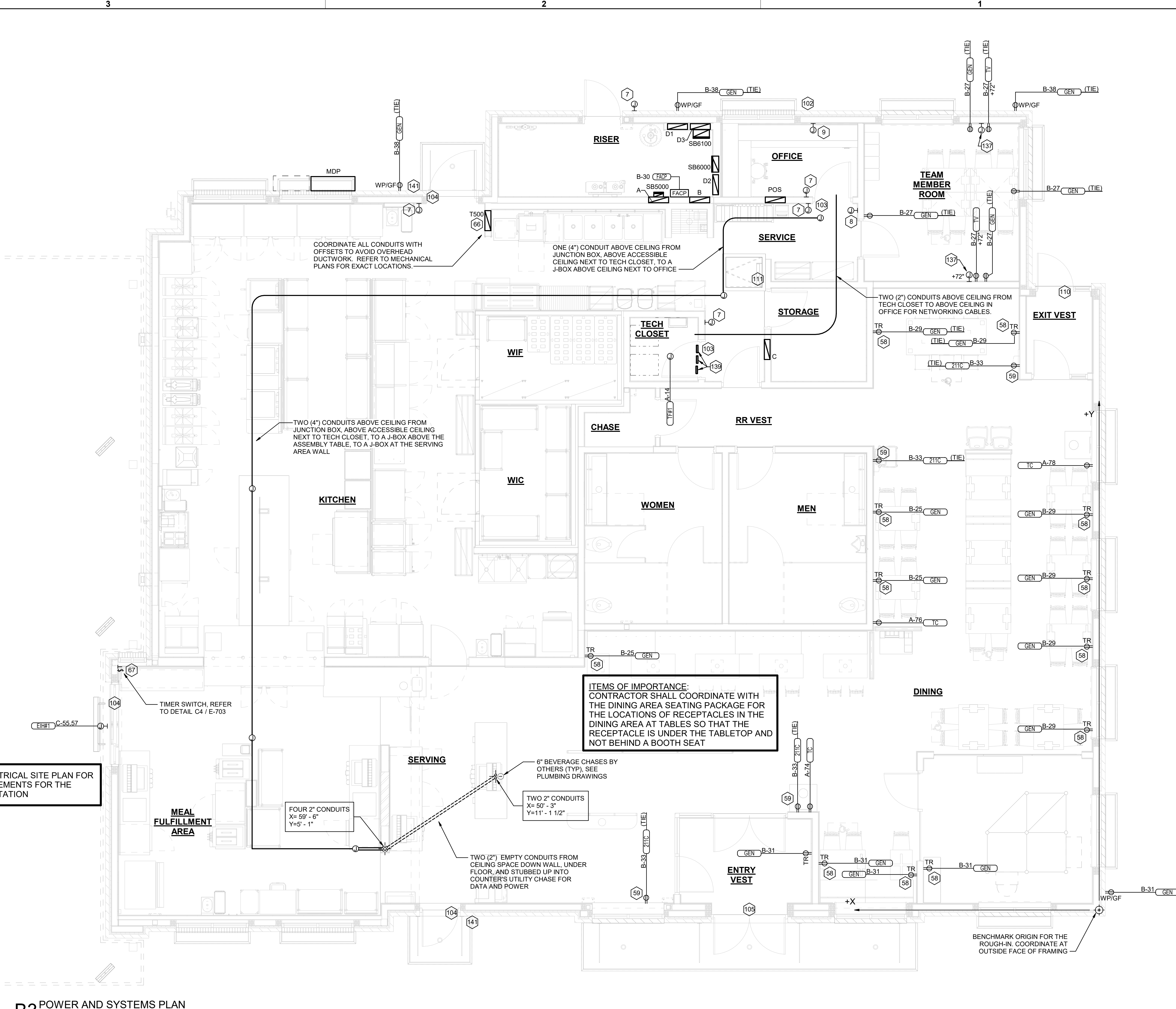
VOLTS: 120/208 Wye  
PHASES: 3  
WIRES: 4

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

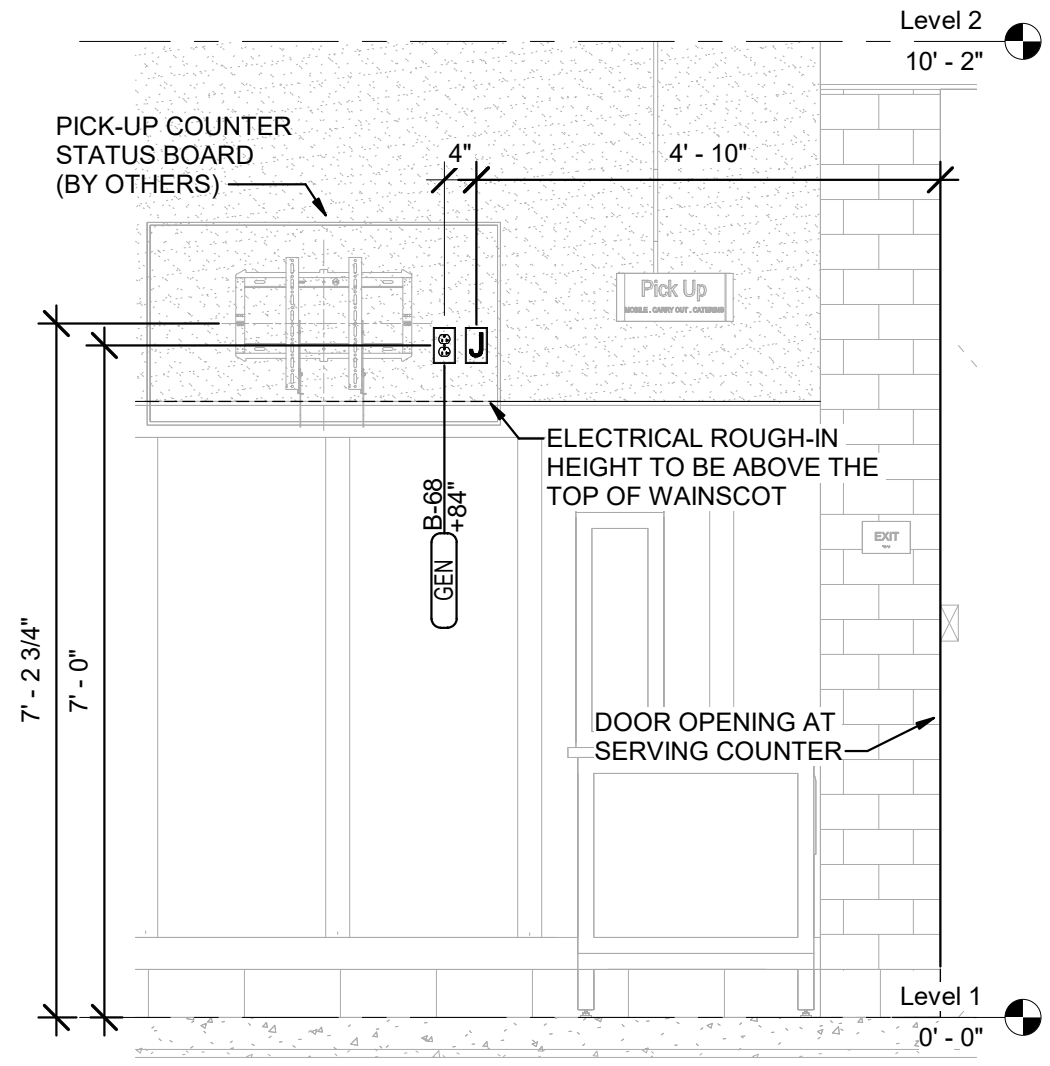
NT	CKT	LOAD DESCRIPTION	
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**ELECTRICAL KEYNOTES**

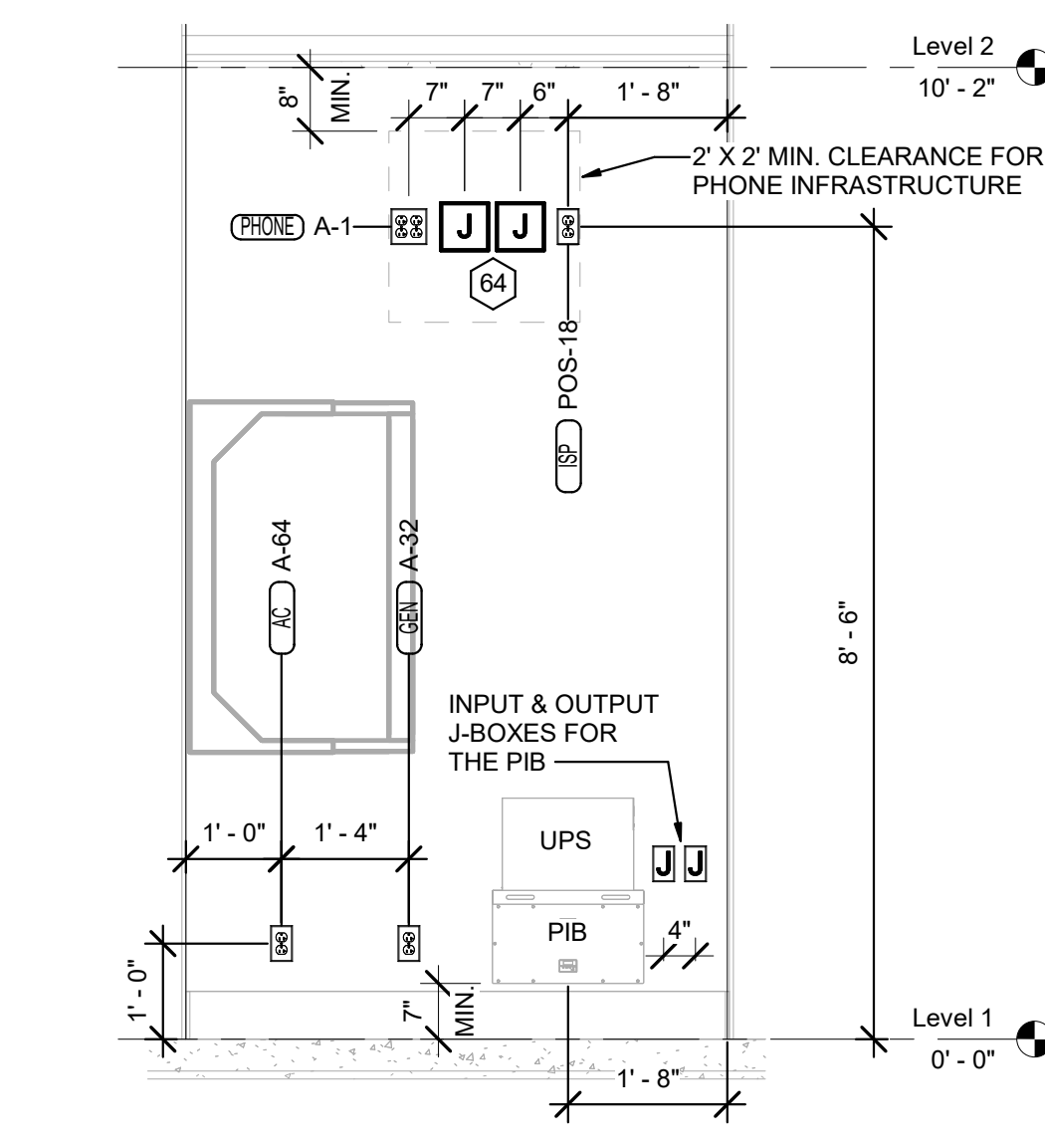
- 7 CO2 ANNUNCIATOR UNIT - PROVIDE SINGLE-GANG BACKBOX AT 60" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE
- 8 CO2 SENSOR UNIT - PROVIDE SINGLE-GANG BACKBOX AT 12" AFF WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING SPACE
- 9 CO2 POWER SUPPLY - PROVIDE SINGLE-GANG BACKBOX AT 18" BELOW 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 #DVFR2W DOUBLE-GANG RECESSED BOX FOR THE FLY SYSTEM ITEMS. DO NOT CUT THE CORDSET FURNISHED WITH THE UNIT, BUT COIL THE CORD ON THE BACK OF THE UNIT AND TUCK INTO THE BACKBOX.
- 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 E501 FOR DETAILS AND E702, E703 FOR WIRING SCHEMATICS.
- 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.
- 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 ELECTRIC STRIKE MOUNTING POINT IN DOOR FRAME 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.
- 137 PROVIDE A SINGLE GANG JUNCTION BOX AT +72" A.F.F. WITH 3/4" CONDUIT STUBBED UP INTO CEILING SPACE FOR TV.
- 139 ACCESS CONTROL PANELS LOCATED ABOVE DOOR. SECURITY CONTRACTOR TO INSTALL AND PROVIDE POE.
- 141 PROVIDE SINGLE GANG JUNCTION BOX WITH COVERPLATE. PROVIDE W/P COVERPLATE WHEN ON EXTERIOR WALLS. EXTEND 1/2" CONDUIT UP IN WALL TO ABOVE ACCESSIBLE CEILING. MOUNT CENTER OF J-BOX AT 46" AFF.



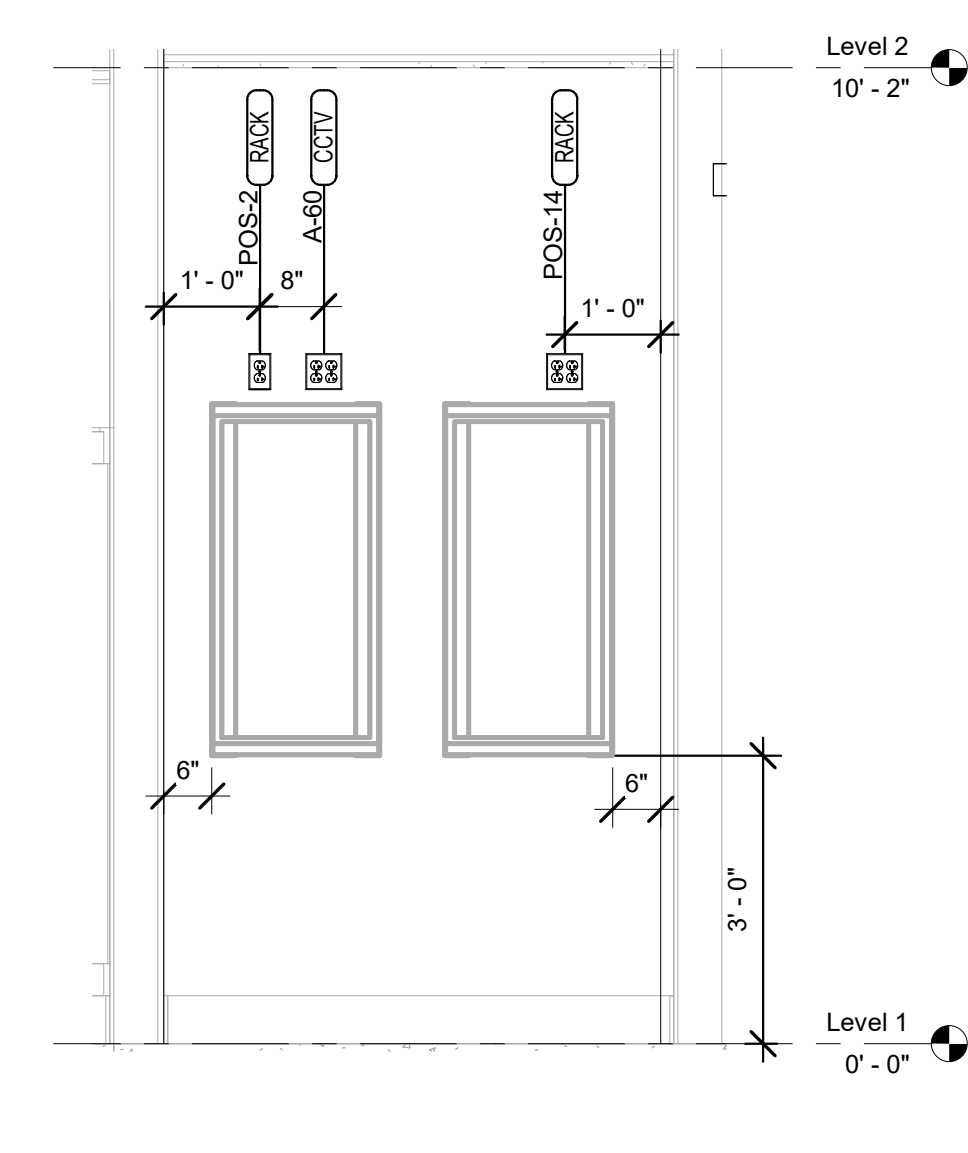
**B3 POWER AND SYSTEMS PLAN**  
1/4" = 1'-0"



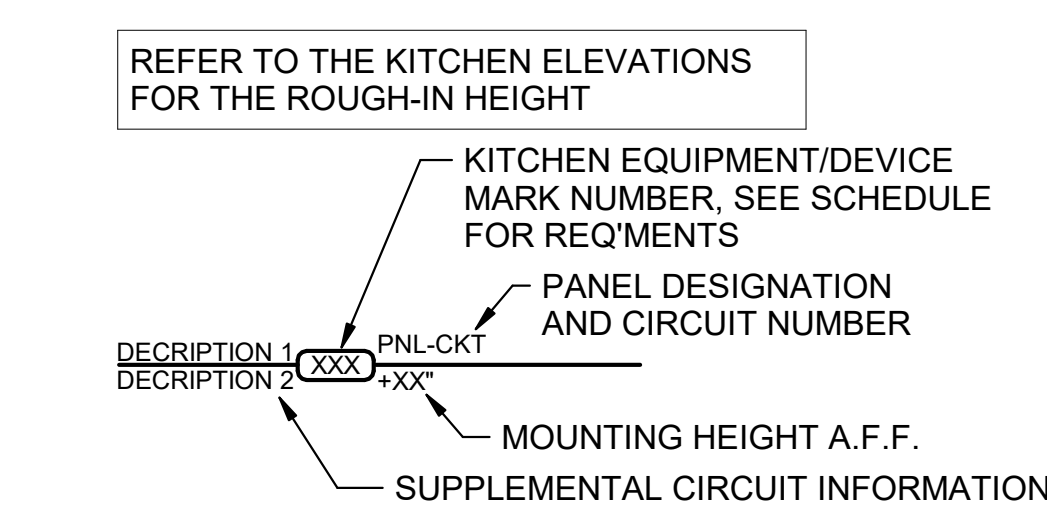
**B4 PICK-UP COUNTER**  
N.T.S.



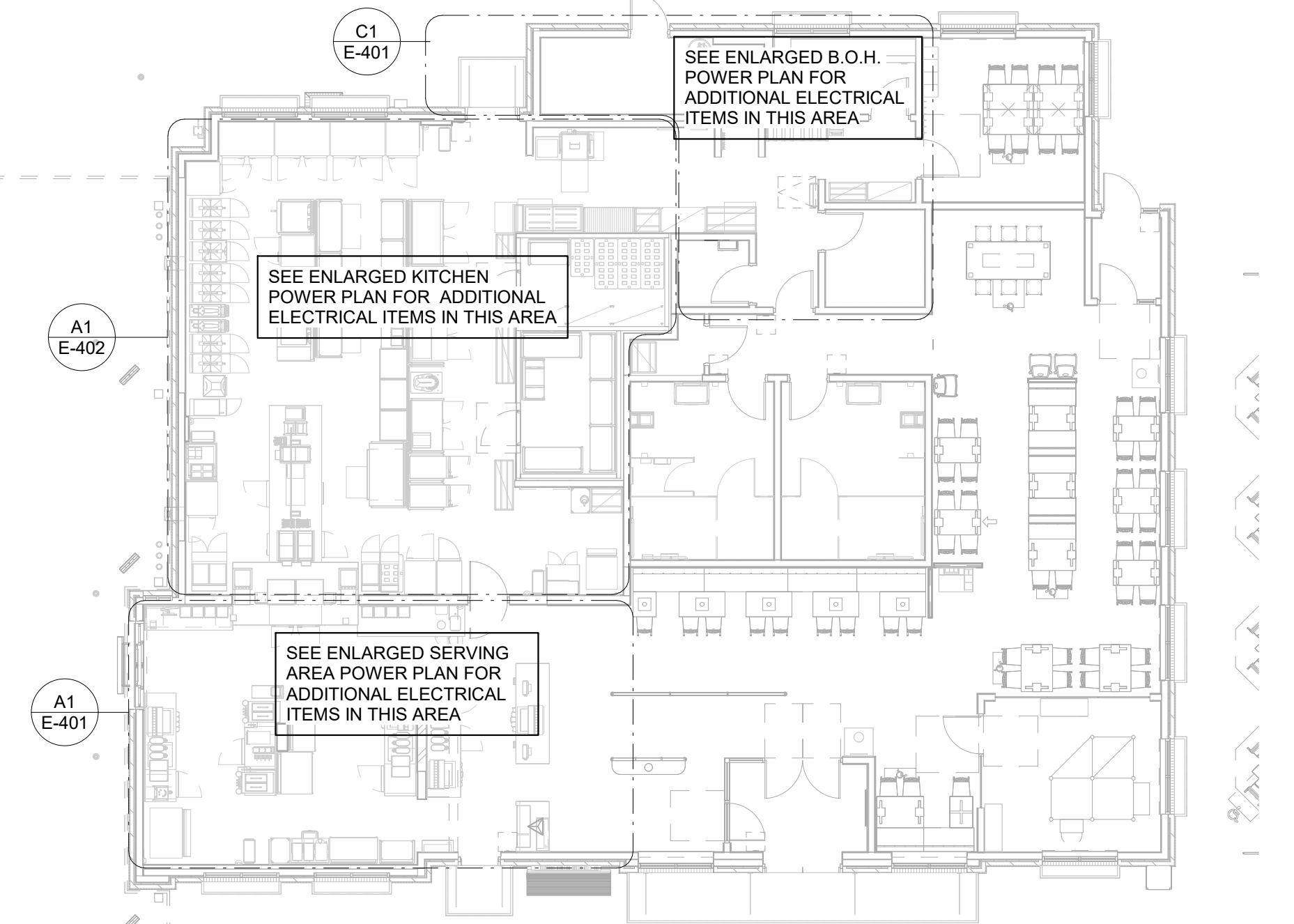
**A4 TECH CLOS. ELEV RIGHT**  
1/2" = 1'-0"



**A3 TECH CLOS. ELEV CENTER**  
1/2" = 1'-0"



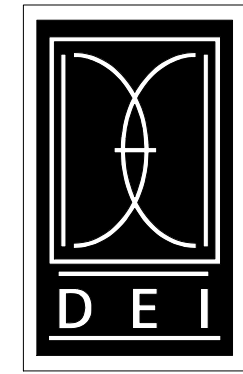
**A2 KITCHEN EQUIPMENT NOMENCLATURE**  
N.T.S.



**A1 ELECTRICAL KEY PLAN**  
N.T.S.



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FARMINGTON, MO 63640

**FSR#05788**  
BUILDING TYPE / SIZE: P14 SE BN  
RELEASE: 23.09

**ISSUED FOR CONSTRUCTION**

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 23-3921.00  
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**POWER AND SYSTEMS PLAN**

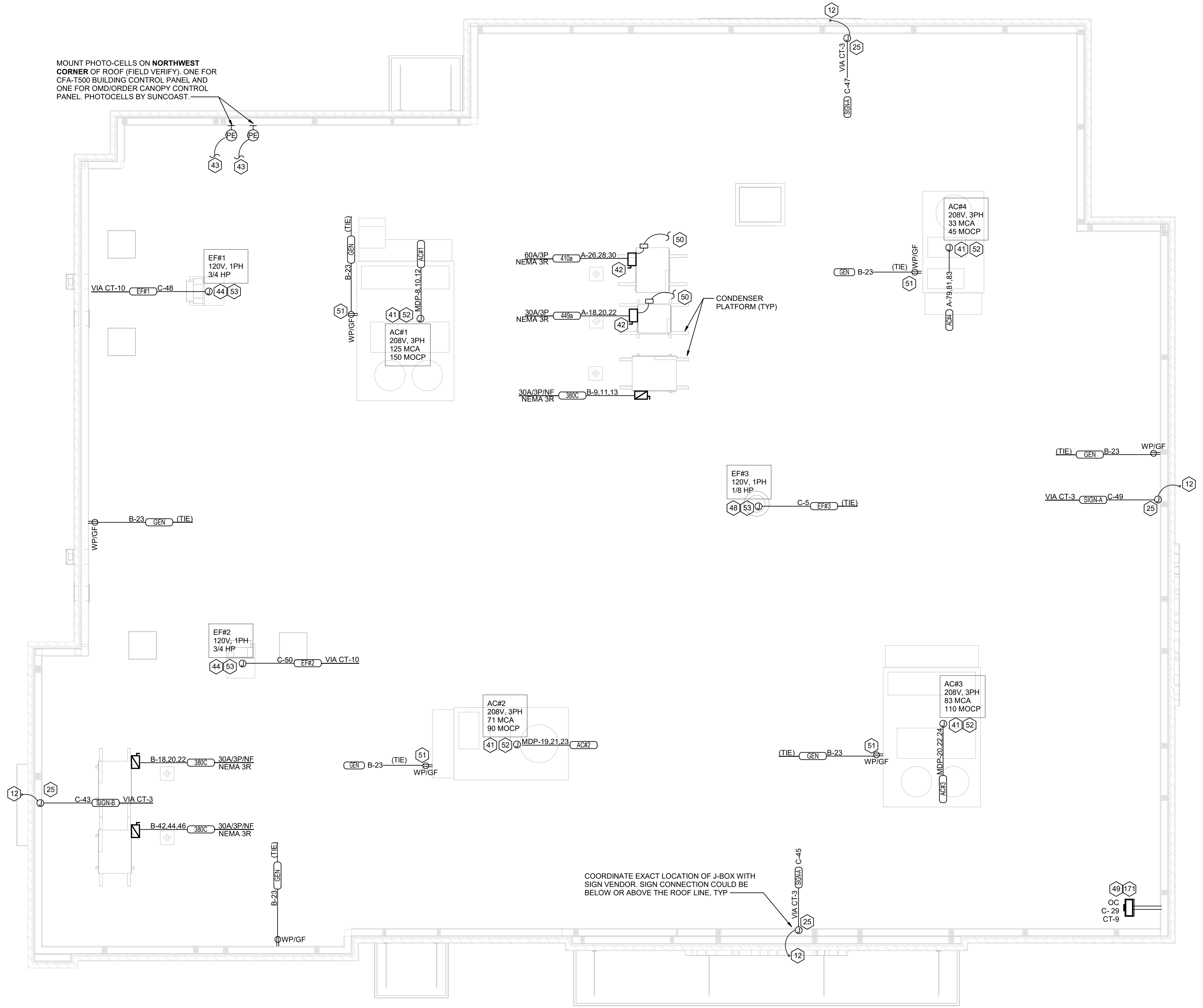
SHEET NUMBER  
**E-104**

4/26/2024 7:40:25 AM Autodesk Docs://MO\_05788\_Farmington FSU\_2024.1\_FSR/05788\_Farmington FSU\_ELE.rvt 50-SE-05788-E-104-POWER AND SYSTEMS PLAN

**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 DEVICE (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 14" DIAMETER LOOP IN THE FLEXIBLE CONDUIT BETWEEN THE ROOF AND THE FAN ELECTRICAL CONNECTION.
- 48 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. INTERLOCK WITH LIGHTING CIRCUIT IN RESTROOM. REFER TO THE LIGHTING PLAN FOR CONTINUATION.
- 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 A 120V GFCI TYPE 20 AMP CONVENIENCE RECEPTACLE WITH WP (WHILE-IN-USE) COVERPLATE MOUNTED TO THE KNOCKOUT PANEL OF THE UNIT 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.
- 171 FLAG POLE LIGHT FIXTURE TYPE 'OC'. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING DETAIL.

MOUNT PHOTO-CELLS ON NORTHWEST CORNER OF ROOF (FIELD VERIFY). ONE FOR CFA-T500 BUILDING CONTROL PANEL AND ONE FOR OMD/ORDER CANOPY CONTROL PANEL. PHOTOCELLS BY SUNCOAST.

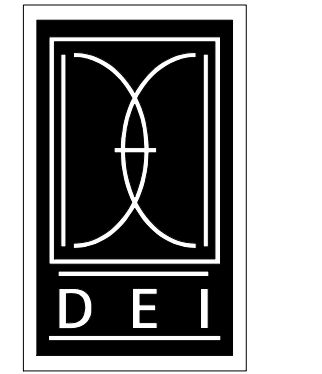


**B1** ROOF POWER PLAN  
1/4" = 1'-0"

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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**CHICK-FIL-A**  
**FARMINGTON FSU**  
 941 VALLEY CREEK DRIVE  
 FARMINGTON, MO 63640

**FSR#05788**

BUILDING TYPE / SIZE: P14 SE BN  
 RELEASE: 23.09  
 PRINTED FOR  
**ISSUED FOR CONSTRUCTION**

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

CONSULTANT PROJECT # 23-3821.00  
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**ROOF POWER PLAN**

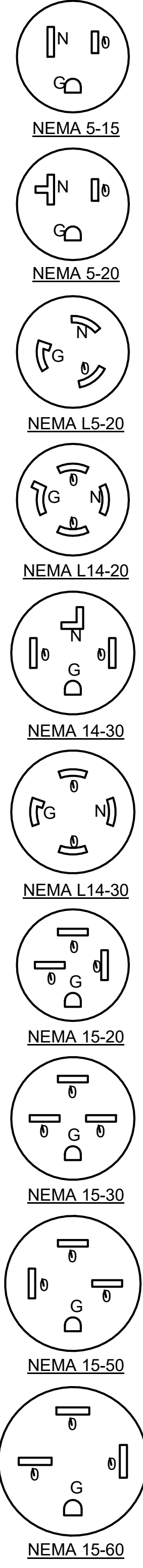
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**E-105**

4/26/2024 7:40:31 AM Autodesk Docs://MO\_05788\_Farmington FSU\_2024.1\_FSR/05788\_Farmington FSU\_ELE.rvt 50-SE-05788-E-105-ROOF POWER PLAN

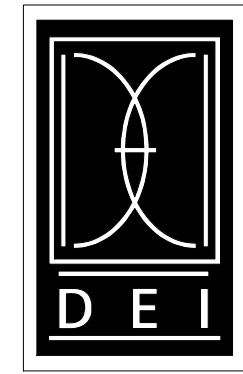
- ALL SO CORD LENGTHS SHALL BE MEASURED FROM THE REAR OF THE EQUIPMENT TO THE END OF THE CORD.
- CONTRACTOR SHALL PROVIDE GROUND-FAULT PROTECTION FOR ALL 120 VOLT 15 AMP AND 20 AMP RECEPTACLES IN THE KITCHEN / FOOD PREPARATION AREAS. GROUND-FAULT PROTECTION SHALL BE PROVIDED AT THE RECEPTACLE AS A GFCI TYPE RECEPTACLE UNLESS NOTED OTHERWISE ON THE PLANS WHERE A GFCI TYPE BREAKER IS INDICATED.
- 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 RECEPTACLE	COMMENTS AND REMARKS
180	ORDER REGISTER	120	1		0.7	DUPLEX 5-15R IG	
182	RECEIPT PRINTER	other	1		1.8	DUPLEX 5-15R IG	PROVIDED WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
182L	LABEL PRINTER	other	1		1.7	DUPLEX 5-15R IG	PROVIDED WITH 120V/24V POWER SUPPLY ADAPTER FOR USE WITH 120V IG OUTLET
183	ORDER MONITOR	120	1		0.125	DUPLEX 5-15R IG	
184	IPAD	120	1	0.12	1	SIMPLEX 5-20R	PROVIDED BY CONNECTION
184T	ITIMER	120	1	0.12	1	L5-20R	PROVIDED BY CLARK
190	DRIVE-THRU VIDEO MONITOR	120	1		0.8	DUPLEX 5-20R	
211B	FLY SYSTEM	120	1	0.017		DUPLEX 5-20R	CLOCK STYLE RECEPTACLE REQUIRED
211C	ILLUME ALPHA FLY LIGHT	120	1	0.007		DUPLEX 5-20R	CLOCK STYLE RECEPTACLE REQUIRED
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
300a	MILKSHAKE BASE DISPENSER	120	1		2	SIMPLEX 5-20R	MOUNTED ON ITEM #300b
300X	DOUBLE BARREL ICE CREAM MACHINE	208	3		19.00/15.00	15-30R/15-20R	PROVIDED WITH HUBBELL HBL8432C & HBL8421C ANGLE PLUGS
305	TEA BREWER	120	1	1.65	13.8	SIMPLEX 5-20R	PROVIDE QUICK DISCONNECT HOSES
308	SINGLE COFFEE MAKER	208	1	4	19.2	L14-30R	QUICK DISCONNECT HOSES PROVIDED BY CFA WAREHOUSE
310	DOUBLE LEMONADE BUBBLER	120	1		8.5	SIMPLEX 5-20R	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	DUPLEX 5-20R	PROVIDED WITH (2) CORDS AND PLUGS PER TOWER
320	TURBO CARBONATOR	115	1		6.2	SIMPLEX 5-20R	ORDER (6) #44231
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	0.6	5	DUPLEX 5-20R	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			INSTALLED ON WALL ABOVE ICE BIN - SHARES DUPLEX WITH (1) ICE MACHINE
380C	ICE MACHINE REMOTE CONDENSING UNIT	208	3	3.1	14.2	DIRECT CONNECTION	AIR COOLED UNIT - GC SHALL PLACE AND INSTALL CONDENSER ON ROOF
380CD	ICE MACHINE REMOTE CONDENSING UNIT	208	3	3.6	15.7	DIRECT CONNECTION	AIR COOLED UNIT - GC SHALL PLACE AND INSTALL CONDENSER ON ROOF
380D	ICE MACHINE	115	1	0.368	5	DUPLEX 5-20R	INSTALLED ON TOP OF ICE BIN - PROVIDED WITH 6 FT CORD AND 35 FT LINE SETS
400L	SINGLE UPRIGHT FREEZER (30" WIDE)	115	1	1.1	9.4	SIMPLEX 5-20R	HINGE LEFT - PROVIDE FINISHED BACK - ORDER 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		16.3	DIRECT CONNECTION	GC SHALL INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWINGS
410b	WALK-IN FREEZER EVAPORATOR	208	1		1.5	DIRECT CONNECTION	POWER FED FROM CONDENSER
420	SINGLE UNDERCOUNTER REFRIGERATOR	115	1	0.564	4.7	SIMPLEX 5-20R	HINGE RIGHT - ORDER ON 4" CASTERS
420L	SINGLE UNDERCOUNTER REFRIGERATOR	115	1	0.564	4.7	SIMPLEX 5-20R	HINGE LEFT - ORDER ON 4" CASTERS
421	DOUBLE UNDERCOUNTER REFRIGERATOR	115	1	0.756	6.3	SIMPLEX 5-20R	ORDER ON 4 IN CASTERS
422T	REFRIGERATED EQUIPMENT STAND (48")	115	1	0.8	6.7	L5-15R	EC TO CHANGE PLUG TO TWIST LOCK - PROVIDED W/9' CORD - ORDER ON 4" CASTERS
431	DOUBLE REFRIGERATED WORK TABLE	115	1	0.756	6.3	L5-15R	EC TO CHANGE PLUG TO TWIST LOCK - ORDER ON 6 IN CASTERS WITH BACKSPASH TOP
432T	DOUBLE REFRIGERATED WORK TABLE	115	1	0.756	6.3	SIMPLEX 5-20R	EC TO CHANGE PLUG TO TWIST LOCK - ORDER ON 6 IN CASTERS WITH BACKSPASH TOP
439L	40" COLD RAIL	115	1	0.8	7.1	DUPLEX 5-20R (BY OTHERS)	COMPRESSOR ON LEFT - SUPPLIED WITH 9 FT CORD AND PLUG
440C	ICE BATH BREADING TABLE	120	1		1	SIMPLEX 5-20R	EC TO CHANGE PLUG TO TWIST LOCK - 10 FT CORD AND PLUG - LEAF INCLUDED WITH TABLE - INSTALL IF SHOWN ON PLANS
441	SALAD PREP TABLE	115	1		9	L5-15R	PROVIDE WITH TWIST LOCK PLUG; ORDER ON 4" CASTERS WITH PAN PKG.; SESC TO PROVIDE PAN PKG.
442WCLT	SINGLE UPRIGHT REFRIGERATOR (30" WIDE)	115	1		7	SIMPLEX 5-20R	HINGE LEFT - PROVIDE FINISHED BACK - ORDER ON 6 IN CASTERS - EC TO CHANGE PLUG TO TWIST LOCK
443G	SINGLE UPRIGHT REFRIGERATOR (24" WIDE)	115	1		8	SIMPLEX 5-20R	HINGE LEFT - HALF HEIGHT GLASS DOORS - PROVIDE FINISHED BACK - ORDER ON 6 IN CASTERS
444S	SINGLE THAWING CABINET (32" WIDE)	115	1		16	DIRECT CONNECTION	HINGE STANDARD - GC TO INSTALL LIQUID TIGHT FLEX CONDUIT - ORDER ON 6 IN CASTERS
444D	DOUBLE THAWING CABINET (52" WIDE)	115	1		16	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		9.5	DIRECT CONNECTION	GC SHALL INSTALL CONDENSER ON ROOF - NOT SHOWN ON DRAWINGS
449b	WALK-IN COOLER EVAPORATOR	208	1	0.11	1	DIRECT CONNECTION	POWER FED FROM CONDENSER
500A	VERTICAL CONTACT TOASTER	120	1	1.8	15	DUPLEX 5-20R (BY OTHERS)	
500B	RADIANT TOASTER	208	1	5.5	24	L6-30R (BY OTHERS)	PROVIDED WITH TWIST LOCK PLUG
503T	EGG STATION	208	1	2.5	12.5	L6-20R	PROVIDED W/TWIST LOCK PLUG
505VT	VECTOR OVEN	208	3	7.9	22	L6-30R	HINGE RIGHT - EC TO CHANGE PLUG TO TWIST LOCK
522	SINGLE OPEN FRYER	208	3	22	62	PIN & SLEEVE (BY OTHERS)	PIN & SLEEVE PROVIDED WITH EQUIPMENT AND RECEPTACLE BOX PROVIDED WITH HALTON ITEMS - (1) POWER CONNECTION PER WELL
522A	DOUBLE OPEN FRYER	208	3	22/22	62/62	PIN & SLEEVE (BY OTHERS)	PIN & SLEEVE PROVIDED WITH EQUIPMENT AND RECEPTACLE BOX PROVIDED WITH HALTON ITEMS - (1) POWER CONNECTION PER WELL
523	PRESSURE FRYER	208	3	13.5	38	L5-50R	PROVIDED WITH 6 FT CORD AND PLUG
524	DUAL SIDE CLAMSHELL GRILL	208	3	9	24.1/28.2/23.1	L5-50R	PROVIDED WITH 5' CORD & PLUG
560	FRY HOLDING STATION	120	1	1.9	15.4	DIRECT CONNECTION	
562A	HIGH DENSITY HOT HOLDING TOWER	120	1	1.8	16	DUPLEX 5-20R (BY OTHERS)	PROVIDED WITH 8 FT CORD AND PLUG
563D	DOUBLE TIER SANDWICH SLIDE	120	1	1.09	9.13	SIMPLEX 5-20R	CORD EXITS RIGHT - 6' CORD AND PLUG
563SL	SINGLE TIER SANDWICH SLIDE	120	1	0.548	4.56	SIMPLEX 5-20R	CORD EXITS LEFT - 6' CORD AND PLUG
564BD	VISUAL HOT HOLDING CABINET (2x2 LANDSCAPE)	120	1	0.66	5.5	DUPLEX 5-20R (BY OTHERS)	DUAL-SIDED DISPLAY - ORDER WITH LIDS/TRAY SEALS
565C	FOOD COOKER/WARMER	115	1	1.2	12.5	SIMPLEX 5-20R	ORDER WITH (1) 3VOL042
580H	VISUAL HOT HOLDING CABINET (5x2)	120	1	1.92	16	DUPLEX 5-20R (BY OTHERS)	ORDER WITH LIDS/TRAY SEALS
592	REHEAT/REHEAT	208	3	8	22	L5-30R	PROVIDED WITH 6' CORD AND ANGLE PLUG - WATER SUPPLY TO BE S/S BRAIDED HOSE WITH MALE QUICK CONNECT ADAPTER
600T	MIXER	120	1		8	L5-20R	EC TO CHANGE PLUG TO TWIST LOCK - ORDER WITH (1) 3H0B405
607	COUNTERTOP LEMON JUICER	115	1		8	DUPLEX 5-20R	EC TO CHANGE PLUG TO TWIST LOCK - ORDER WITH (1) 3H0B405
669	OFFICE SAFE	120	1				INSTALL SAFE PER MANUFACTURE'S WRITTEN INSTRUCTIONS
672	DIGITAL MENU BOARD	120	1			DUPLEX 5-20R	PROVIDED BY COATES



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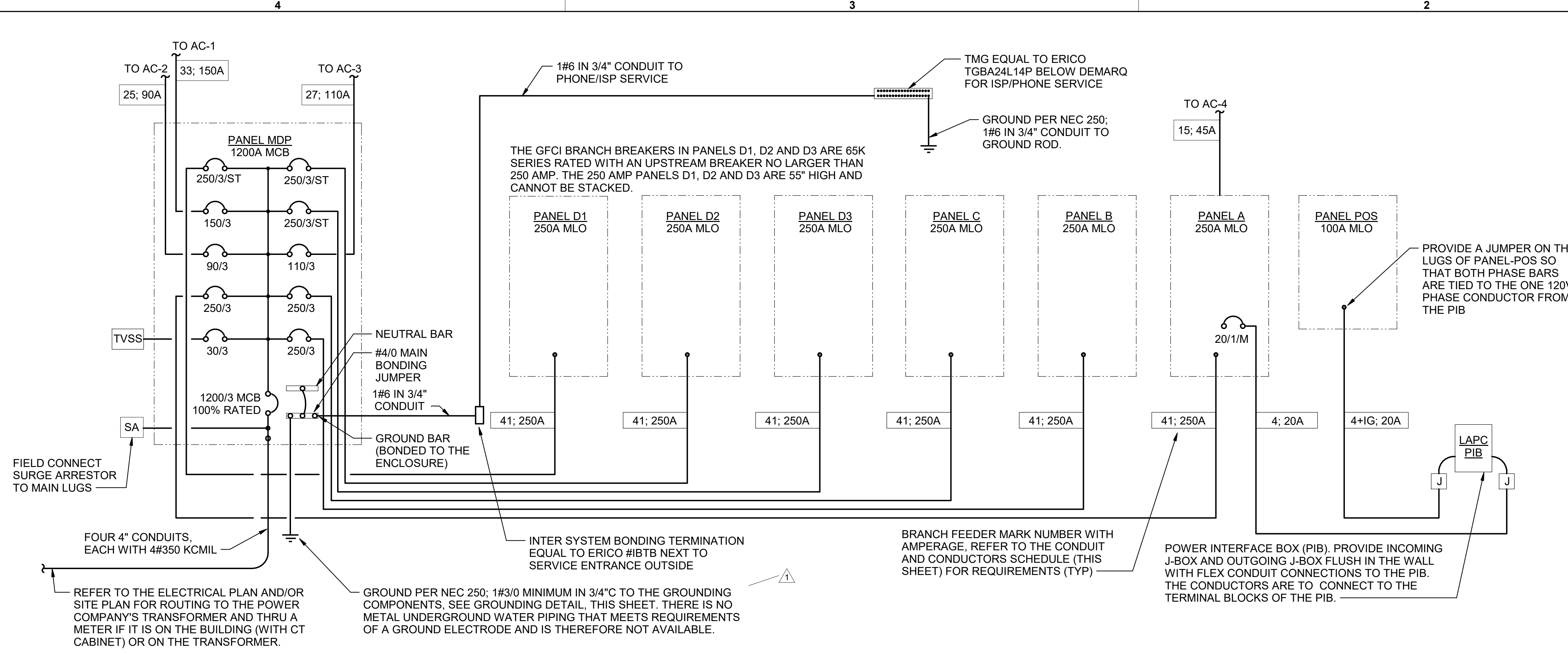
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**CHICK-FIL-A**  
FARMINGTON FSU  
941 VALLEY CREEK DRIVE  
FARMINGTON, MO 63640

**FSR#05788**  
BUILDING TYPE / SIZE: P14 SE BN  
RELEASE: 23.09  
PRINTED FOR:  
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REVISION SCHEDULE  
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 23-3821.00  
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**EQUIPMENT SCHEDULE**

SHEET NUMBER  
**E-601**



**(B1) CONDUIT AND CONDUCTORS SCHEDULE**

Mark No.	Conductors Total Amps	Conductors				Raceway Size (Nominal Inches)								
		60d C	75d C	Qty	Size	EMT	IMC	RIGID	PVC					
1	20	-	2	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75
2	20	-	3	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75
3	20	-	4	12	THHN	1	12	One	0.75	0.75	0.75	0.75	0.75	0.75
4	30	-	2	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
5	30	-	3	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
6	30	-	4	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
7	30	-	2	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
8	30	-	3	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
9	30	-	4	10	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
10	40	-	2	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
11	40	-	3	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
12	40	-	4	8	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	1.00
13	55	-	4	6	THHN	1	10	One	1.00	1.00	1.00	1.00	1.00	1.00
14	55	-	2	6	THHN	1	10	One	0.75	0.75	0.75	0.75	0.75	0.75
15	55	-	3	6	THHN	1	10	One	0.75	0.75	0.75	0.75	1.00	1.00
16	55	-	4	6	THHN	1	10	One	1.00	1.00	1.00	1.00	1.00	1.00
17	70	-	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.25
18	70	-	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25
19	70	-	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25
20	70	-	2	4	THW	1	8	One	1.00	1.00	1.00	1.00	1.25	1.25
21	70	-	3	4	THW	1	8	One	1.25	1.00	1.25	1.25	1.25	1.25
22	70	-	4	4	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25
23	85	-	3	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.25	1.25
24	85	-	4	3	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.50
25	95	-	3	2	THW	1	8	One	1.25	1.25	1.25	1.25	1.50	1.50
26	95	-	4	2	THW	1	8	One	1.50	1.25	1.50	1.50	1.50	1.50
27	110	-	3	1	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00
28	110	-	4	1	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00
29	-	150	3	1/0	THW	1	6	One	1.25	1.25	1.25	1.25	1.50	1.50
30	-	150	4	1/0	THW	1	6	One	1.50	1.25	1.50	1.50	1.50	1.50
31	-	150	3	1/0	THW	1	6	One	1.50	1.50	1.50	1.50	2.00	2.00
32	-	150	4	1/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00
33	-	150	3	1/0	THW	1	6	One	2.00	1.50	2.00	2.00	2.00	2.00
34	-	150	4	1/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00
35	-	175	3	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.00	2.00
36	-	175	4	2/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50
37	-	200	3	3/0	THW	1	6	One	2.00	2.00	2.00	2.00	2.50	2.50
38	-	200	4	3/0	THW	1	6	One	2.50	2.50	2.50	2.50	2.50	2.50
39	-	230	3	4/0	THW	1	4	One	2.50	2.00	2.50	2.50	2.50	2.50
40	-	230	4	4/0	THW	1	4	One	2.50	2.50	2.50	2.50	3.00	3.00
41	-	255	4	250	THW	1	4	One	2.50	3.00	3.00	3.00	3.00	3.00
42A	-	285	4	300	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3.00
42B	-	310	4	350	THW	1	4	One	3.00	3.00	3.00	3.00	3.00	3.00
43A	-	335	4	400	THW	1	4	One	3.00	3.50	3.50	3.50	3.50	3.50
43B	-	380	4	500	THW	1	4	One	3.50	3.50	3.50	3.50	3.50	3.50
44A	-	380	4	500	THW	1	3	One	3.50	3.50	3.50	3.50	3.50	3.50
44B	-	400	4	3/0	THW	1	3	Two	2.50	2.50	2.50	2.50	2.50	2.50
45A	-	570	4	300	THW	1	1	Two	3.00	3.00	3.00	3.00	3.00	3.00
45B	-	620	4	350	THW	1	1	Two	3.00	3.00	3.00	3.00	3.00	3.50
46A	-	760	4	500	THW	1	1/0	Two	3.50	3.50	3.50	3.50	3.50	3.50
46B	-	820	4	600	THW	1	1/0	Two	4.00	4.00	4.00	4.00	4.00	4.00
47	-	1005	4	400	THW	1	2/0	Three	3.50	3.50	3.50	3.50	3.50	3.50
48	-	1240	4	350	THW	1	3/0	Four	3.50	3.50	3.50	3.50	3.50	4.00
49	-	1675	4	400	THW	1	4/0	Five	4.00	4.00	4.00	4.00	4.00	4.00

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

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

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

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

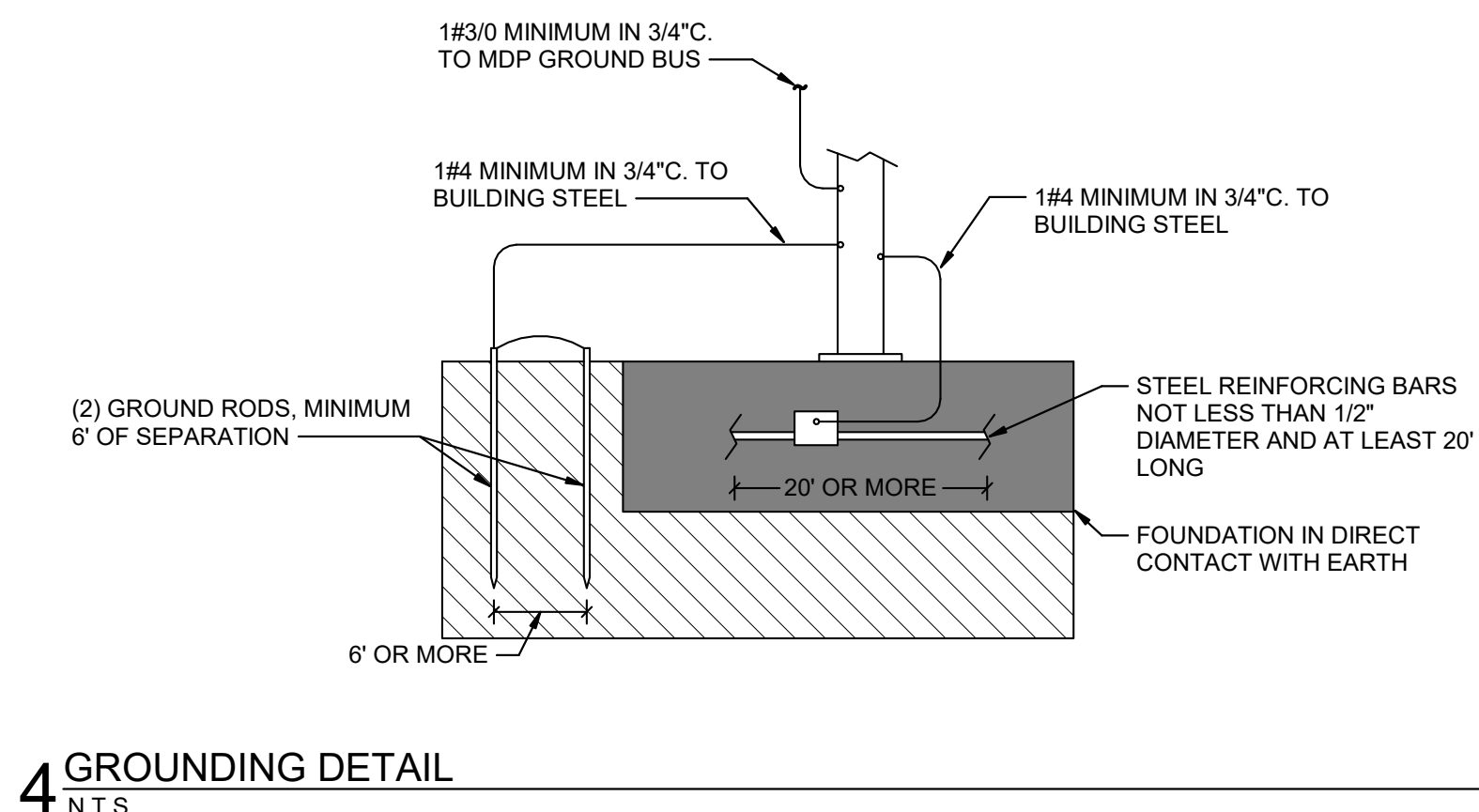
Omit Grounding conductor on Service Entrance Feeders.

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

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

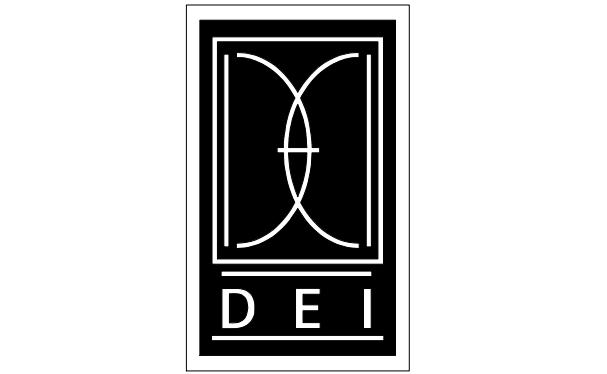
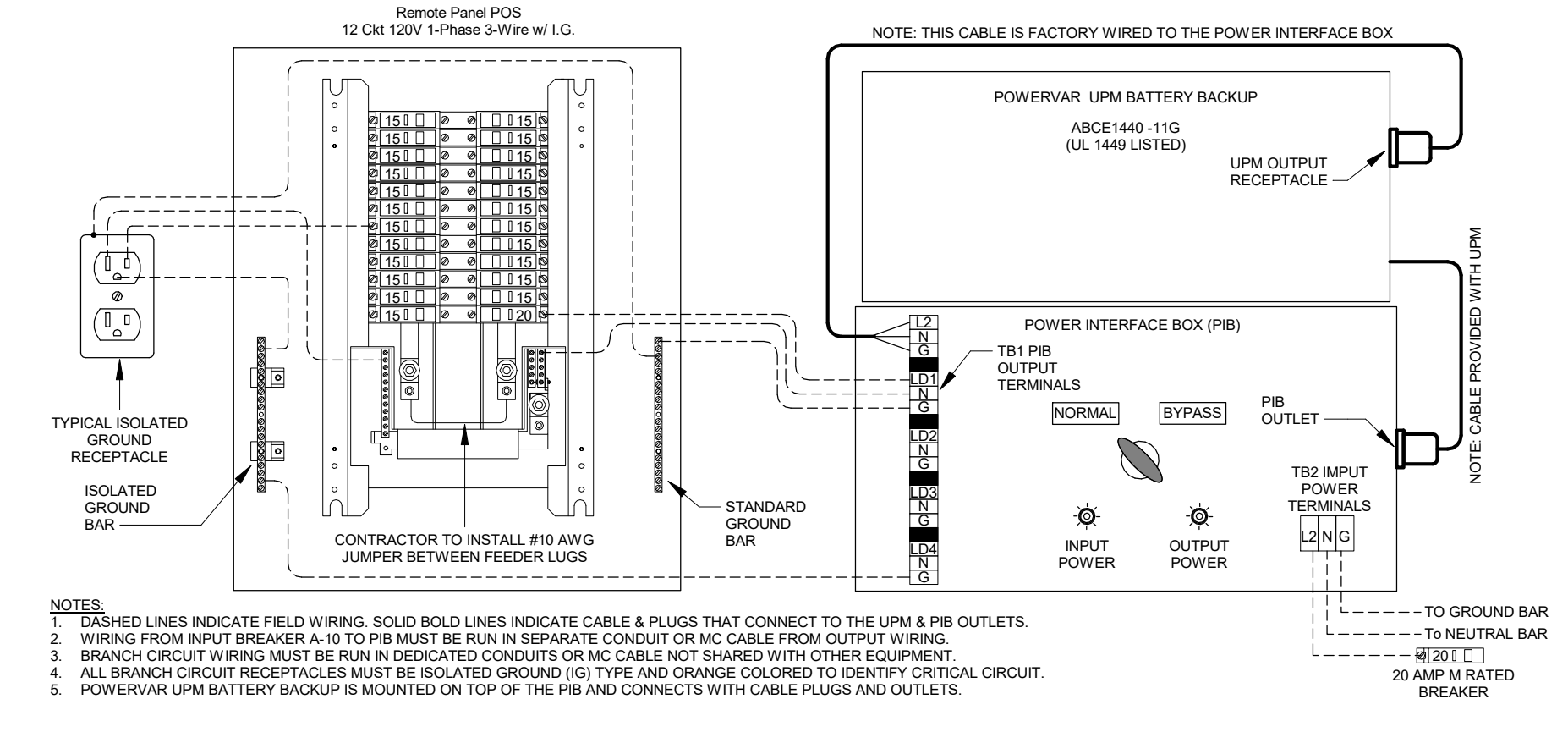
**SINGLE-LINE DIAGRAM NOTES**

- 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 ELECTRICAL SPECIFICATIONS, 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.



DICKERSON ENGINEERING, INC.  
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3343 NORTH RIDGE AVENUE  
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DEI #: 24093.11

**CHICK-FIL-A**  
FARMINGTON FSU  
941 VALLEY CREEK DRIVE  
FARMINGTON, MO 63640

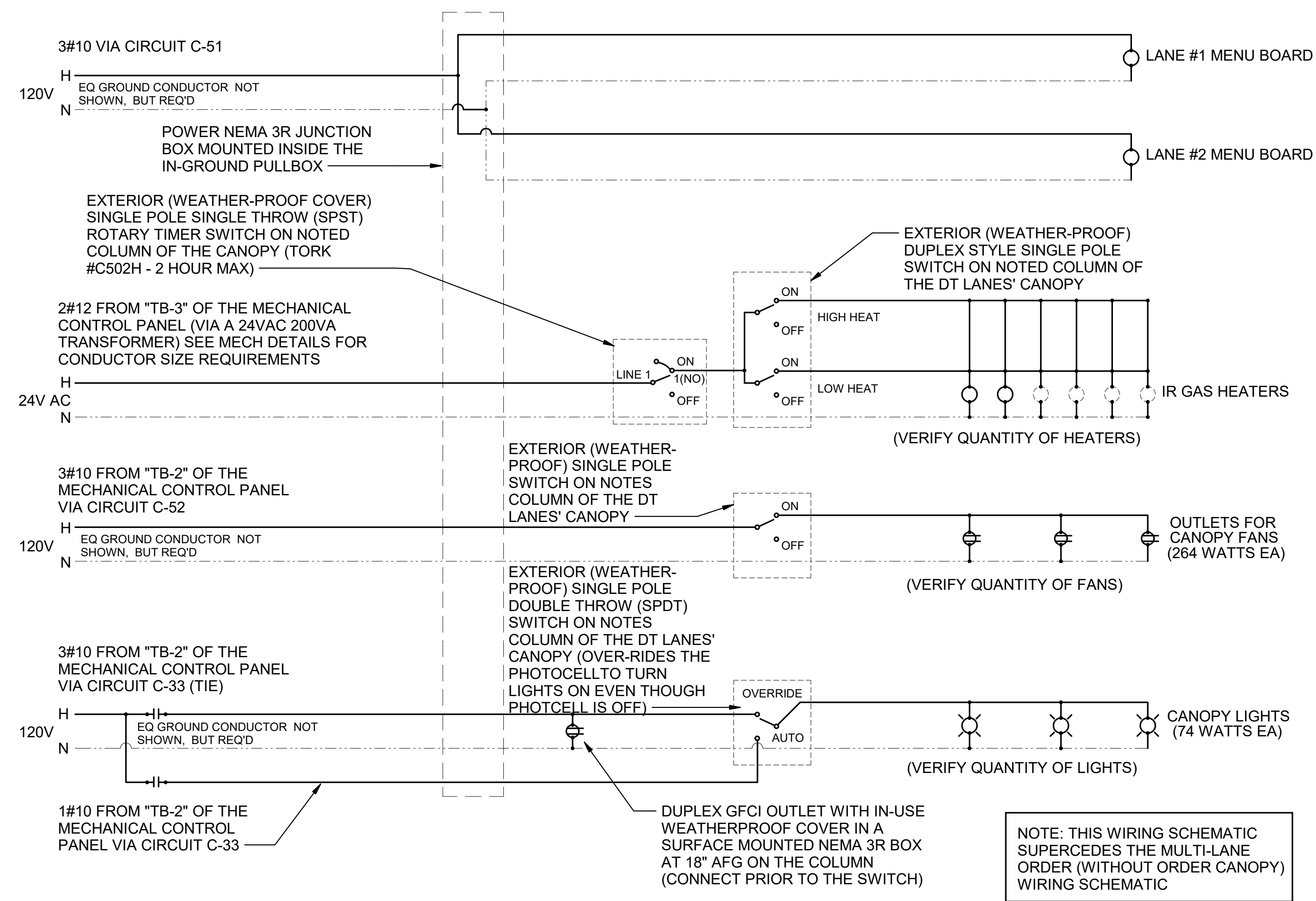
**FSR#05788**  
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RELEASE: 23.09  
PRINTED FOR: ISSUED FOR CONSTRUCTION

NO.	DATE	DESCRIPTION
1	03/25/2024	CITY COMMENTS

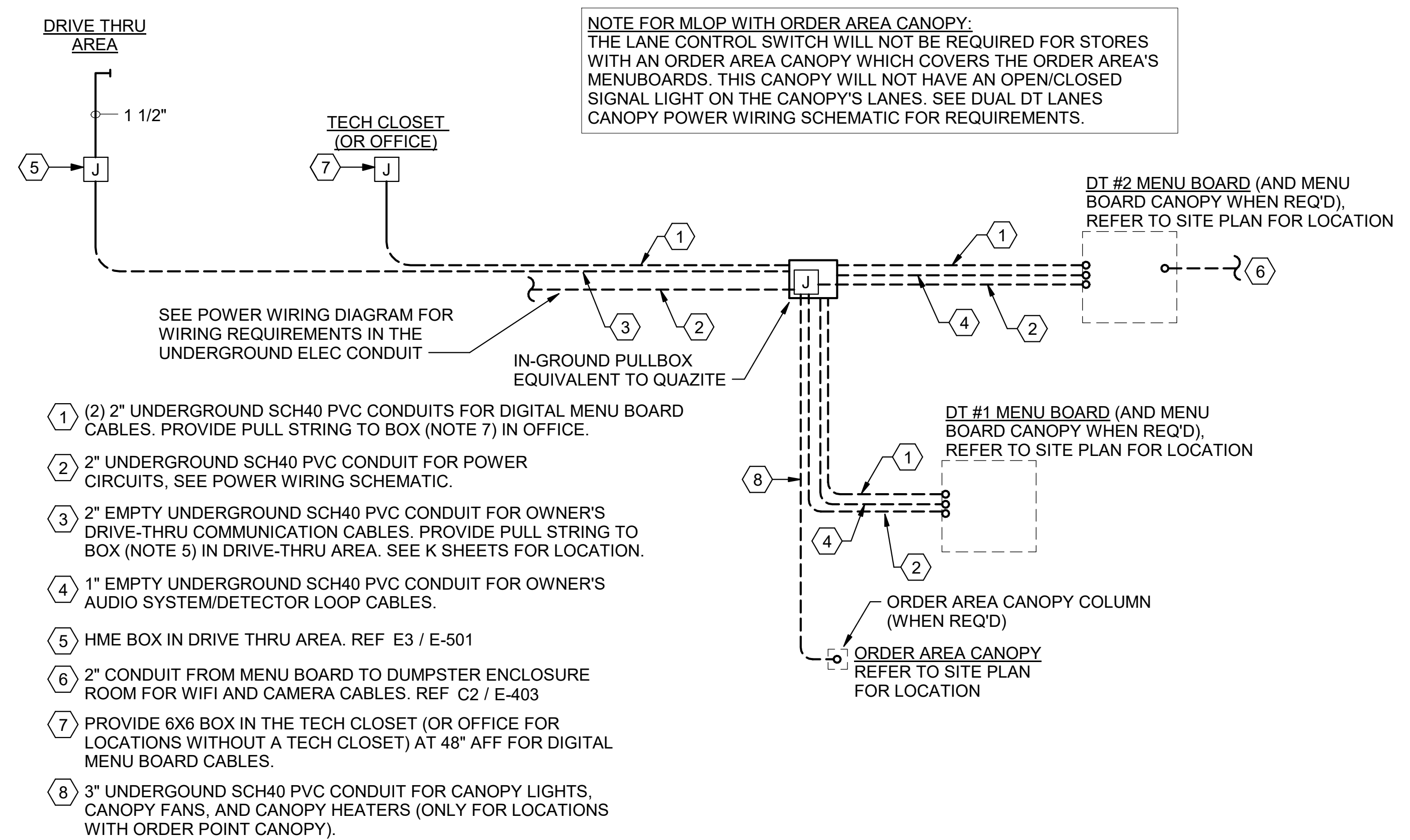
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DATE 04/26/2024

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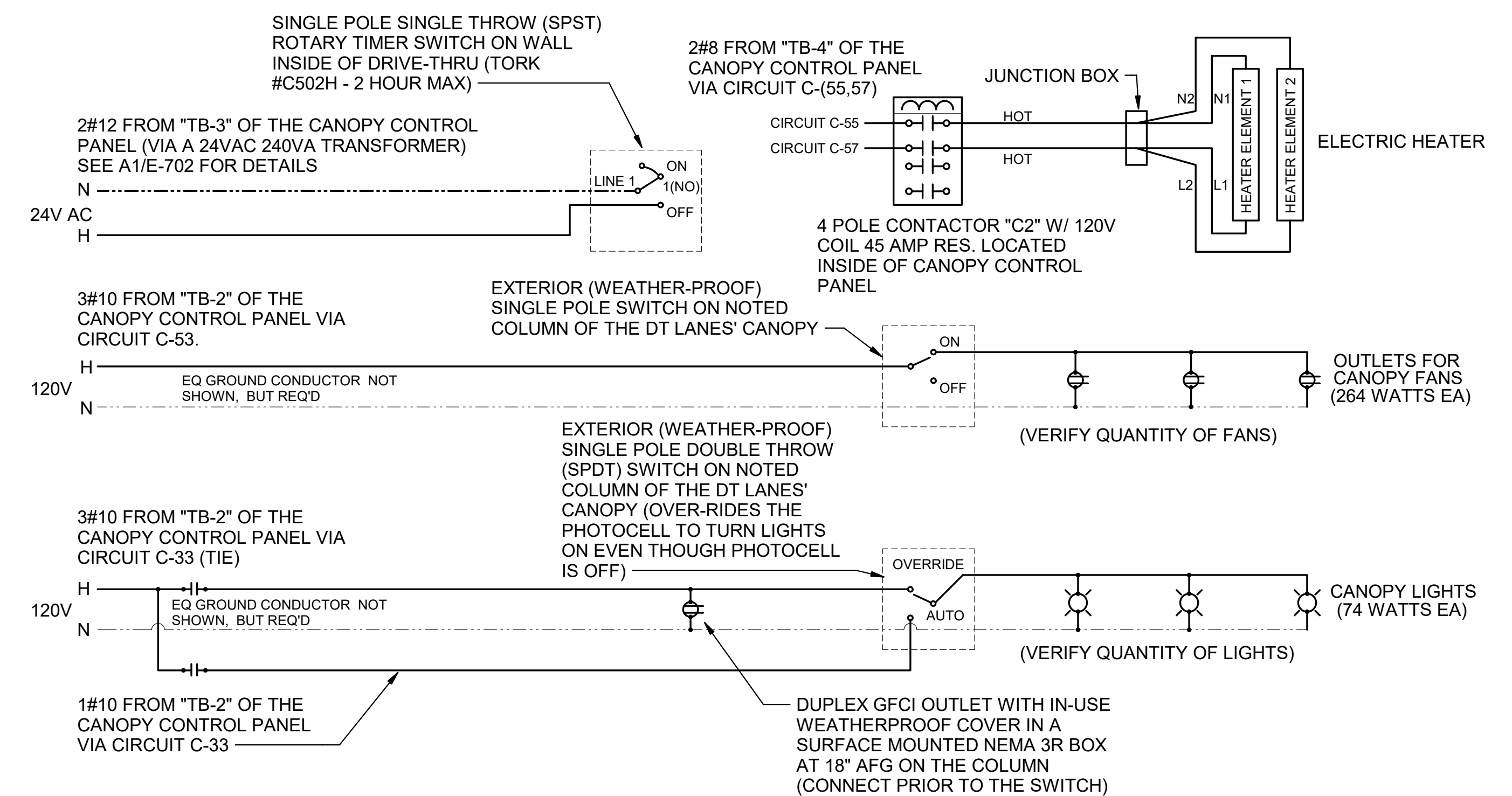
SHEET SINGLE LINE DIAGRAM  
SHEET NUMBER E-701



**A4** MULTI-LANE ORDER CANOPY POWER WIRING SCHEMATIC  
N.T.S.



**C1** MULTI-LANE ORDER POINT (MLOP) DRIVE-THRU CONDUIT REQUIREMENTS  
N.T.S.



**C4** OUTSIDE MEAL DELIVERY (OMD) CANOPY POWER WIRING SCHEMATIC  
N.T.S.



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941 VALLEY CREEK DRIVE  
FARMINGTON, MO 63640

**FSR#05788**

BUILDING TYPE / SIZE: P14 SE BN  
RELEASE: 23.09

ISSUED FOR CONSTRUCTION

REVISION SCHEDULE  
NO. DATE DESCRIPTION

CONSULTANT PROJECT # 23-3821.00  
DATE 04/26/2024

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WIRING DIAGRAMS

SHEET NUMBER  
**E-703**