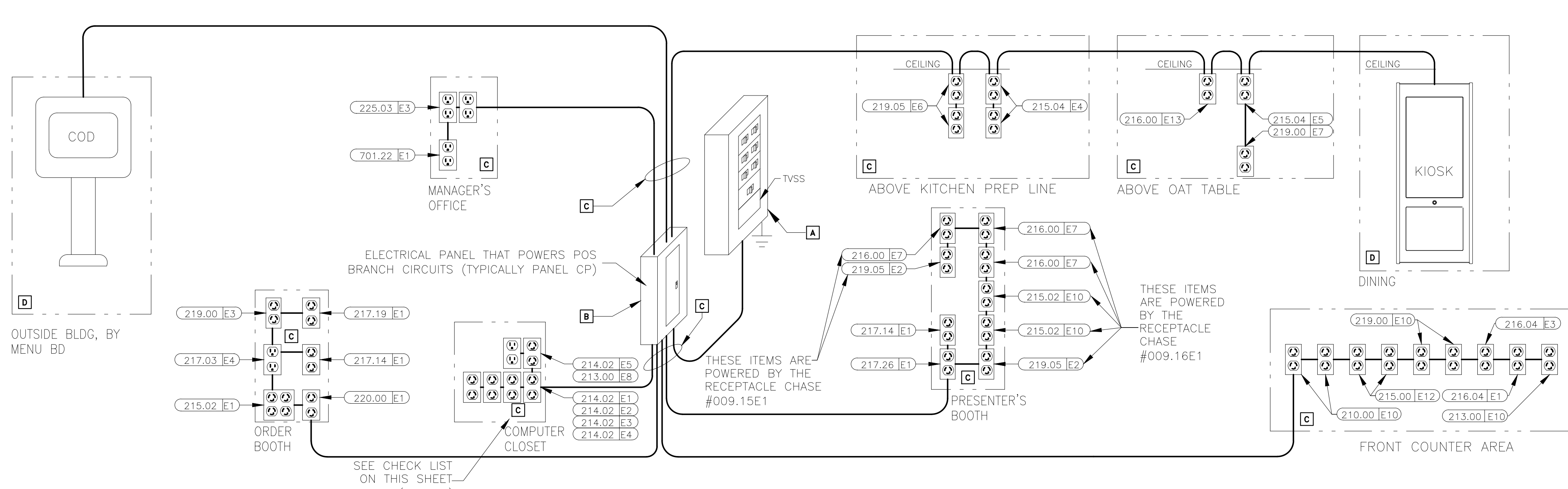


THE PURPOSE OF THIS SHEET IS TO PROVIDE A CHECKLIST AND VISUAL GUIDE SO THE INSTALLING EC CAN VERIFY THE WORK IS IN COMPLIANCE WITH MCDONALD'S SPECIFICATIONS THAT ARE CRITICAL TO THE PROPER FUNCTIONING OF OUR POINT OF SALE (POS) COMPUTER SYSTEMS.



POS ELECTRICAL RISER DIAGRAM
THIS RISER DIAGRAM SHOWS THE ELECTRICAL ROUGH-INS REQUIRED FOR A TYPICAL POINT OF SALE (POS) SYSTEM IN A FREE STANDING FAST FORWARD RESTAURANT. VERIFY ALL POS ROUGH-INS AND MOUNTING HEIGHTS WITH THE ELECTRICAL ROUGH-IN PLAN, NOTES AND INFORMATION DRAWINGS.

LOW VOLTAGE CABLE MANAGEMENT SPECIFICATION

GENERAL/MATERIALS

- THE GC OR EC SHALL FURNISH AND INSTALL A COMPLETE LOW VOLTAGE CABLE MANAGEMENT SYSTEM UTILIZING CADDY-ERICO TYPE CAT-32 J-HOOK SUPPORTS (2-INCH DIAMETER LOOP MINIMUM). ALL J-HOOKS SHALL:
 - HAVE A MINIMUM BEARING SURFACE OF 1 1/8"
 - HAVE FLARED EDGES TO PREVENT DAMAGE TO HIGH PERFORMANCE CABLES,
 - HAVE AN ELECTRO-GALVANIZED FINISH,
 - HAVE 3/8" WIDE CABLE RETAINING STRAPS,
 - BE UL LISTED AND LABELED,
 - BEAR THE UL SYMBOL MARKING ON THE PART FOR IDENTIFICATION
 - BE INSTALLED PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
- THE ENTIRE INSTALLATION SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), NEC SECTION 800, BICSI STANDARDS 568 & 569, ALL APPLICABLE NATIONAL, STATE, LOCAL, AND SAFETY CODES, AND MCDONALD'S SPECIFICATIONS.

INSTALLATION

- LOW VOLTAGE J-HOOK CABLE PATHWAY (FOR POS CABLING SYSTEM) SHALL BE PROVIDED FROM THE MANAGERS OFFICE (OR COMPUTER CLOSET) DATA CONDUIT STUB-UP LOCATION TO THE FOLLOWING DATA CONDUIT STUB-UP LOCATIONS (AS APPLICABLE):
 - FRONT COUNTER.
 - PRESENTERS BOOTH.
 - CASHIERS BOOTH.
 - THIRD DRIVE-THRU WINDOW(IF PRESENT).
 - CREW ROOM.
 - VALENCE WALL.
 - REMOTE ORDERING STATIONS.
 - NETPOP TELEPHONE PANEL LOCATION.
 - KIOSK
 - DIGITAL MERCHANDISER

CABLE SUPPORTS SHALL BE PROVIDED WITHIN 24 INCHES OF THESE STUB-UP LOCATIONS. ALL STUB-UP CONDUITS SHALL BE PROVIDED WITH AN INSULATED BUSHING TO PROTECT CABLES DURING INSTALLATION.
- THE LOCATION AND ROUTING OF THE LOW VOLTAGE CABLE MANAGEMENT SYSTEM SHALL BE COORDINATED WITH ALL OTHER CONSTRUCTION TRADES PRIOR TO INSTALLATION TO AVOID CONFLICTS WITH THE OTHER TRADES. FINAL INSTALLATIONS, BOTH BEFORE AND AFTER THE CABLE MANAGEMENT SYSTEM AND THE POS CABLING ARE INSTALLED. FINAL INSTALLATION LOCATION SHALL BE READILY ACCESSIBLE TO ALLOW FOR EASE IN INSTALLATION OF THE POS CABLING BY THE POS VENDOR'S INSTALLER.
- LOW VOLTAGE J-HOOK CABLE SUPPORTS AND APPURTENANCES SHALL BE FASTENED TO THE BUILDING STRUCTURAL AND/OR FRAMING MEMBERS. LOW VOLTAGE J-HOOK CABLE SUPPORTS SHALL NOT BE FASTENED OR UTILIZE THE CEILING GRID SUSPENSION WIRES OR T-BAR GRID FOR INSTALLATION. CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACKETS, HANGERS, RODS, CLAMPS, FLANGES, SUPPORTS, ETC. FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. THE INSTALLATION OF THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM SHALL BE DONE SO THAT THE ROUTING OF THE CABLES IS PARALLEL TO AND/OR PERPENDICULAR TO FRAMING AND STRUCTURAL BUILDING MEMBERS.
- LOW VOLTAGE J-HOOK CABLE SUPPORTS SHALL BE INSTALLED A MAXIMUM OF 36 INCHES APART. AT TRANSITION LOCATIONS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL J-HOOKS TO ALLOW FOR A MINIMUM ONE-FOOT RADIUS BEND AND FOR ADDITIONAL CABLE SUPPORT AT THESE TRANSITION POINTS.
- TO AVOID **ELECTROMAGNETIC INTERFERENCE (EMI)**, ALL PATHWAYS SHALL PROVIDE A MINIMUM CLEARANCE OF 4 FEET (1.2 METERS) FROM MOTORS AND TRANSFORMERS AND A MINIMUM CLEARANCE OF 1 FOOT (0.3 METERS) FROM CONDUIT AND CABLES UTILIZED FOR ELECTRICAL POWER DISTRIBUTION, AND OTHER NON-POS LOW VOLTAGE CONDUCTORS.
- ANY **CEILING TILES** IN THE AREA WHERE THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM IS LOCATED SHALL NOT BE INSTALLED UNTIL THE POS VENDOR'S CONTRACTOR COMPLETES THE INSTALLATION OF ALL POS CABLING.
- ALL NON-POS LOW VOLTAGE CABLING SHALL BE INSTALLED IN A SEPARATE CABLE MANAGEMENT SYSTEM INDEPENDENT OF THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM UTILIZED FOR THE POS CABLING.
- THE POS INSTALLER SHALL BE RESPONSIBLE TO FURNISH AND INSTALL ALL LOW VOLTAGE CABLING REQUIRED FOR THE COMPLETE AND FULLY FUNCTIONAL OPERATION OF THE POS SYSTEM. ALL POS CABLING SHALL BE INSTALLED WITHIN THE LOW-VOLTAGE CABLE MANAGEMENT SYSTEM.

ELECTRICAL POS CERTIFICATION

AS OF THE DATE BELOW, I HEREBY CERTIFY THAT ALL ELECTRICAL WORK, ELECTRICAL SERVICE AND ELECTRICAL SYSTEMS, MATERIALS AND LABOR RELATED TO THE POS ELECTRICAL INSTALLATION IN WHICH THE UNDERSIGNED ARE DIRECTLY OR INDIRECTLY RESPONSIBLE HAVE BEEN PROPERLY INSTALLED IN FULL COMPLIANCE WITH ALL CONSTRUCTION DOCUMENTS AND ALL NFPA, BUILDING, ELECTRICAL AND OTHER APPLICABLE CODES, ALONG WITH ALL OF THE REQUIREMENTS OUTLINED ON THIS DRAWING. I FURTHER CERTIFY THAT THE ELECTRIC SERVICE POWERING THE POS SYSTEM HAS BEEN PROPERLY INSTALLED BY A QUALIFIED ELECTRICIAN, SKILLED, KNOWLEDGEABLE AND TRAINED TO INSTALL ALL THE REQUIRED ELECTRICAL DISTRIBUTION COMPONENTS NECESSARY TO POWER THE POINT OF SALE (POS) SYSTEM.

GENERAL CONTRACTOR: _____ ELECTRICAL CONTRACTOR: _____
 BY: _____ BY: _____
 DATE: _____ DATE: _____

NOTICE:
CHANGES SHALL NOT BE MADE TO THE POS ELECTRICAL SYSTEM AFTER THE POS EQUIPMENT HAS BEEN INSTALLED WITHOUT FIRST NOTIFYING THE POS VENDOR.
 IF CHANGES ARE MADE TO THE POS ELECTRICAL SYSTEM AFTER THE CERTIFICATION PROCESS HAS BEEN COMPLETED, THEN A SYSTEM RE-CERTIFICATION SHALL BE REQUIRED.

REWORK ELECTRICAL SYSTEM TO BRING INTO COMPLIANCE WITH MCDONALD'S SPECIFICATIONS

START HERE

A VISUALLY INSPECT THE MAIN ELECTRICAL PANEL (MDP)
 YES NO N/A
 1. IS AN EQUIPMENT GROUND BAR INSTALLED SUCH THAT IT IS ELECTRICALLY CONNECTED TO THE PANEL?
 2. DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR?
 3. DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR?
 4. DOES THE ISOLATED GROUND CONDUCTOR (GREEN W/YELLOW STRIPE) TERMINATE ON THE EQUIPMENT GROUND BAR?
 5. IS THERE AN APPROPRIATE ELECTRICAL CONNECTION (BOND) BETWEEN THE NEUTRAL BAR AND THE EQUIPMENT GROUND BAR?
 6. DOES THE GROUNDING SYSTEM COMPLY WITH MCDONALD'S "BUILDING ELECTRICAL GROUNDING DETAIL"?
 7. IS A SURGE PROTECTOR INSTALLED THAT COMPLIES WITH MCDONALD'S "TVSS INSTALLATION GUIDE" OR DETAIL?
 8. ARE ALL ELECTRICAL CONNECTIONS (WIRING & BUSING) PROPERLY TIGHTENED?
 9. ARE ALL CIRCUIT BREAKERS CLEARLY LABELED?

B VISUALLY INSPECT THE PANEL "CP" THAT POWERS POS
 YES NO N/A
 1. IS AN EQUIPMENT GROUND BAR INSTALLED SUCH THAT IT IS ELECTRICALLY CONNECTED TO THE PANEL?
 2. IS AN ISOLATED GROUND BAR INSTALLED SUCH THAT IT IS ELECTRICALLY INSULATED FROM THE PANEL?
 3. DO ALL NEUTRAL CONDUCTORS TERMINATE ONLY TO THE NEUTRAL BAR?
 4. DO ALL EQUIPMENT GROUND CONDUCTORS TERMINATE ONLY TO THE EQUIPMENT GROUND BAR?
 5. DO ALL ISOLATED GROUND CONDUCTORS (GREEN W/YELLOW STRIPE) TERMINATE ONLY TO THE ISOLATED GROUND BAR?
 6. ARE ALL ELECTRICAL CONNECTIONS (WIRING & BUSING) PROPERLY TIGHTENED?
 7. ARE ALL POS AND COD CIRCUIT BREAKERS ON THE SAME PANEL?
 8. ARE ALL CIRCUIT BREAKERS CLEARLY LABELED?
 9. DO ALL POS & COD CIRCUIT BREAKERS HAVE A LOCKING MECHANISM ON THEIR HANDLES TO PREVENT THEM FROM BEING SHUT OFF BY MISTAKE?
 10. DOES THE FEEDER CIRCUIT FOR THIS SUBPANEL CONTAIN PHASE, NEUTRAL AND ONE EQUIPMENT GROUND AND ONE ISOLATED GROUND CONDUCTORS THAT ARE PROPERLY TERMINATED (SEE POS & COD ISO GND/DED CKT DETAIL)?

C VISUALLY INSPECT THE POS BRANCH CIRCUITS
 YES NO N/A
 1. ARE THE POS BRANCH CIRCUITS ROUTED IN THEIR OWN CONDUIT BY THEMSELVES?
 2. IF THE POS BRANCH CIRCUIT IS ROUTED ABOVE GRADE, IS IT IN A METALLIC CONDUIT?
 3. DOES EACH POS BRANCH CIRCUIT CONTAIN: ONE PHASE (BLACK COLORED INSULATION) ONE NEUTRAL (WHITE COLORED INSULATION) ONE EQUIPMENT GROUND (GREEN COLORED INSULATION) ONE ISOLATED GROUND (GREEN W/YELLOW STRIPE COLORED INSULATION).
 4. DO ALL POS BRANCH CIRCUITS TERMINATE AT EITHER AN IG4710, IG4710, IG5261, IG5262 RECEPTACLES OR ANY COMBINATION OF THESE?
 5. ARE ALL ELECTRICAL TERMINATIONS TO IG RECEPTACLES MADE WITH SOLID #12 AWG WIRE CAPTURED AROUND THE SCREW BARREL AND SUITABLY TIGHTENED?
 6. ARE ALL BRANCH CIRCUIT CONNECTIONS PROPERLY TIGHTENED?
 7. ARE THE CORRECT AMOUNT AND TYPE OF IG RECEPTACLES PROVIDED AS SHOWN IN THE ELECTRICAL ROUGH-IN PLAN, NOTES AND INFORMATION?
 8. DO ALL POS RECEPTACLES HAVE ORANGE "COMPUTER ONLY" COVERPLATES?
 9. DO ALL POS BRANCH CIRCUITS COMPLY WITH THE "POS & COD ISOLATED GROUND/DEDICATED CIRCUIT DETAIL"?

D VISUALLY INSPECT THE POS BRANCH CIRCUIT FOR THE COD & KIOSK
 YES NO N/A
 1. ARE THE COD AND KIOSK BRANCH CIRCUITS ROUTED IN THEIR OWN CONDUIT BY THEMSELVES?
 2. DOES EACH COD AND KIOSK BRANCH CIRCUIT CONTAIN:
 - ONE PHASE (BLACK COLORED INSULATION),
 - ONE NEUTRAL (WHITE COLORED INSULATION),
 - ONE EQUIPMENT GROUND (GREEN COLORED INSULATION),
 - ONE ISOLATED GROUND (GREEN W/YELLOW STRIPE COLORED INSULATION).
 3. ARE THE COD(S) AND KIOSK(S) POWERED FROM THE SAME PANEL AS THE POS?
 4. DO THE BREAKERS FOR THE COD(S) AND KIOSK(S) HAVE A LOCKING MECHANISM ON THEIR HANDLES THAT WILL PREVENT IT FROM BEING SHUT OFF?
 5. DO THE COD BRANCH CIRCUIT(S) COMPLY WITH THE "POS & COD ISOLATED GROUND/DEDICATED CIRCUIT DETAIL"?

ARE ALL BOXES CHECKED "YES"?

NO → REWORK ELECTRICAL SYSTEM TO BRING INTO COMPLIANCE WITH MCDONALD'S SPECIFICATIONS → A

YES → FINISHED

REV.	DATE	DESCRIPTION

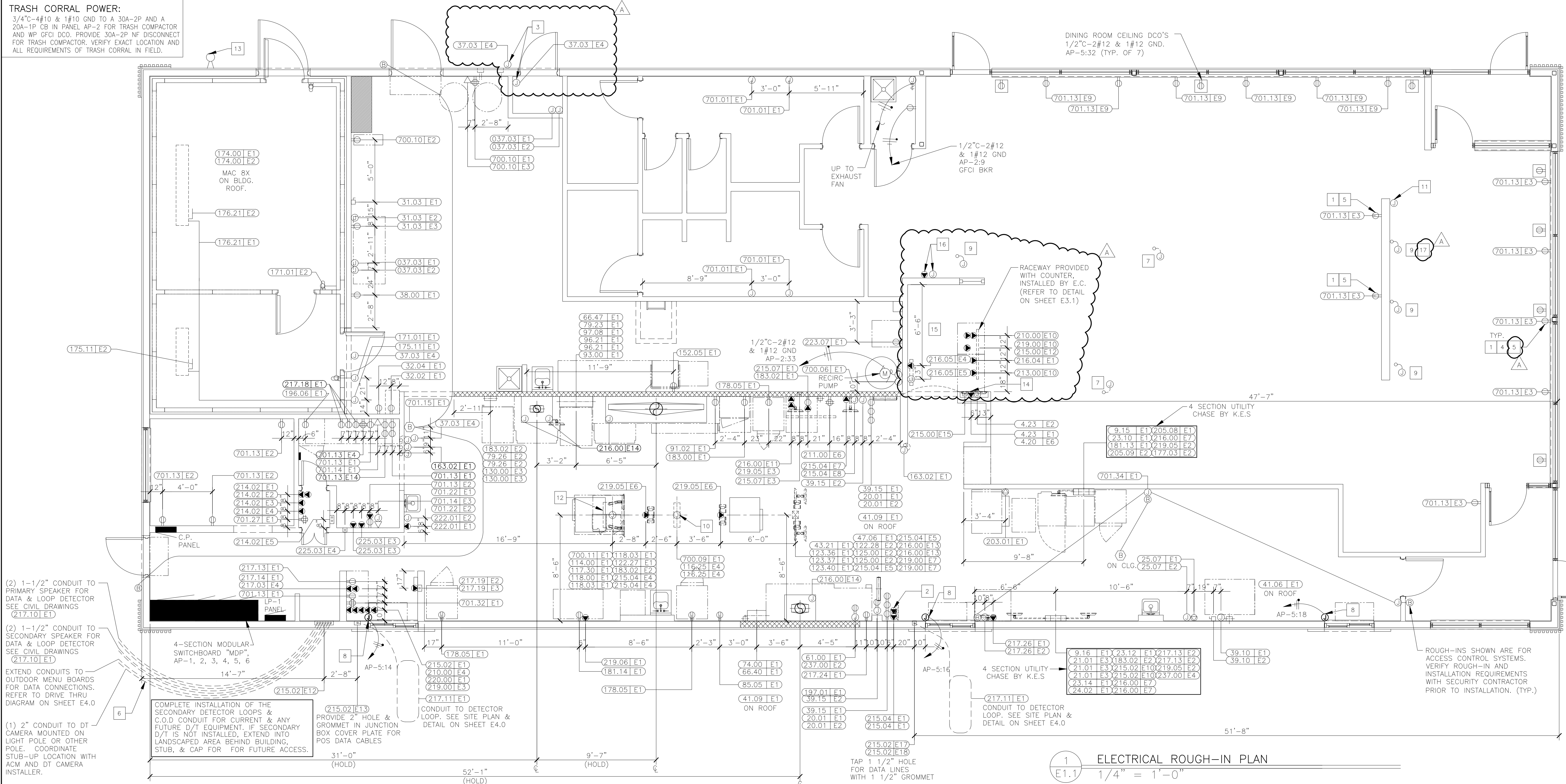
PREPARED BY: **CHRYSTLE FERGUSON**
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PREPARED FOR: **McDonald's USA, LLC**
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DRAWN BY: TFF STD ISSUE DATE: 2022_08 REVIEWED BY: R.K. DATE ISSUED: 10-21-2022	TITLE: 2022 STANDARD BUILDING - BBZ0 DESCRIPTION: WOOD BEARING WALLS W/HARDBOARD SIDING WOOD ROOF TRUSS FRAMING E/F/S/BATTEN/ACM PANEL/HARDBOARD SIDING	SALEM, MO 1000 S Main Street 024-1289
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SHEET NO: **E1.0**
 POS RISER DIAGRAM

TRASH CORRAL POWER:
 3/4"C-4#10 & 1#10 GND TO A 30A-2P AND A 20A-1P CB IN PANEL AP-2 FOR TRASH COMPACTOR AND WP GFCI DCO. PROVIDE 30A-2P NF DISCONNECT FOR TRASH COMPACTOR. VERIFY EXACT LOCATION AND ALL REQUIREMENTS OF TRASH CORRAL IN FIELD.



1 ELECTRICAL ROUGH-IN PLAN
 E1.1 1/4" = 1'-0"

SYMBOLS AND ABBREVIATIONS		SYMBOLS AND ABBREVIATIONS	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SINGLE POLE SWITCH, 3W=THREE WAY SWITCH, K=KEYED SWITCHED, VS=VACANCY SENSOR		BUZZER
	MANUAL SWITCH (T=THERMAL OVERLOADS)		BUTTON FOR BUZZER
	TRANSFORMER		PULLBOX
	JB WITH DUPLEX CONVENIENCE OUTLET (FLUSH WITH CEILING)		PANELBOARD
	JB WITH SINGLE CONVENIENCE OUTLET		CIRCUIT BREAKER
	JB WITH DUPLEX CONVENIENCE OUTLET		AMPERES
	JB WITH TWO DUPLEX CONVENIENCE OUTLETS		AREA CONSTRUCTION MANAGER
	JB WITH SPECIAL PURPOSE OUTLET		ABOVE FINISHED FLOOR
	JB WITH ISOLATED GROUND OUTLET = IG4710, = IG5261, = IG4700A, = IG5262		CONDUIT
	INTERCOM STATION W/ 3/4"C- TO MAIN STATION		ELECTRICAL CONTRACTOR
	TELEPHONE JACK		GENERAL CONTRACTOR
	JUNCTION BOX - WALL OR CEILING MOUNTED		GROUND FAULT CIRCUIT INTERRUPTER
	DISCONNECT SWITCH		GROUND
	STUB UP THRU ROOF		ISOLATED GROUND
	THERMOSTAT SENSOR W/ 1/2"C- UP TO CEILING SPACE		JUNCTION BOX
	MOTOR CONNECTION		KITCHEN EQUIPMENT SUPPLIER
	CONDUIT RUN CONCEALED IN CEILING OR WALLS		MAIN LUGS ONLY
	CONDUIT RUN IN FLOOR SLAB		WEATHERPROOF
	HOT (SHORT), NEUTRAL (LONG), EQUIP GRD (LONG WITH DOT), & "X" DENOTES ISOLATED GRD		CARBON MONOXIDE SENSOR
	J-BOX WITH FINAL EQUIPMENT CONNECTION		
	CEILING MOUNTED OCCUPANCY SENSOR		

ADT ROUGH-IN NOTES

- COORDINATE EXACT INSTALLATION REQUIREMENTS WITH ADT PRIOR TO INSTALLATION TEL. 800-417-8238
- EC SHALL PROVIDE A 2 GANG 3 2 1/2" X 3 2 1/2" X 3 1/2" D JUNCTION BOX AT DOOR FOR INSTALLATION OF DOOR ALARM UNIT. STUB 1/2"C ABOVE CEILING FROM JUNCTION BOX. PROVIDE 1/2"C FROM J-BOX TO DOOR MAGNETIC SWITCH LOCATION.
- EC SHALL PROVIDE 4" X 4" JUNCTION BOX ABOVE CEILING FOR INSTALLATION OF LOW VOLTAGE TRANSFORMER. VERIFY EXACT LOCATION WITH ADT PRIOR TO INSTALLATION. PROVIDE 1/2"C-2#12 TO LOCKOUT TYPE CB IN PANEL LP-1.

GENERAL NOTES

- SEE SHEET E3.0 FOR PANEL & CIRCUIT BREAKER ASSIGNMENT, VOLT/PH, FLA, BREAKER SIZE, COND/WIRE, RECEPTACLE TYPE, HEIGHT ABOVE FINISHED FLOOR, REQUIREMENTS & REMARKS FOR ALL ELECTRICAL EQUIPMENT.
- SEE LOW VOLTAGE CABLE MANAGEMENT SPECIFICATION ON SHEET E1.0 FOR POS, DATA, AND SOUND SYSTEM REQUIREMENTS.
- GC/EC SHALL COORDINATE LOCATION AND ALL REQUIREMENTS OF CT & METER CABINET WITH LOCAL UTILITY COMPANY. CT & METER CABINET SHALL NOT BE INSTALLED ON D/T SIDE OF BUILDING. GC SHALL PAINT TO MATCH BUILDING COLOR.

KEY NOTES

- TAMPER RESISTANT GFCI DUPLEX RECEPTACLE IN PUBLIC AREAS. EC SHALL PROVIDE HUBBELL GFRST* (**: AL=ALMOND, BK=BLACK, --=BROWN, GY=GRAY, I=IVORY, LA=LIGHT ALMOND, R=RED, W=WHITE). SPECIFIED RECEPTACLE BECOMES DE-ENERGIZED UPON FAILURE OF GFCI DEVICE. NO SUBSTITUTIONS.(TYPICAL)
- SEE POS ELECTRICAL RISER DIAGRAM ON SHEET E1.0. (TYPICAL)

KEY NOTES

- EC TO FURNISH AND INSTALL A FLUSH MOUNTED JUNCTION BOX WITH WEATHERPROOF GASKET AND OUTDOOR WEATHERPROOF, 24 VOLT CO2 HORN/STROBE UNIT COMPATIBLE WITH CO2 ALARM SYSTEM - EDWARDS GENESIS WGVARN OR APPROVED EQUAL. STROBE SHALL HAVE AN AMBER COVER AND MEET ALL LOCAL REGULATORY REQUIREMENTS FOR SPECIFICATIONS AND INSTALLATION. PROVIDE A 3" CONDUIT STUB-IN INTO BUILDING WITH THERMOPLASTIC BUSHING FROM WEATHERPROOF BACKBOX. PROVIDE FINAL WIRING TERMINATIONS AT HORN/STROBE UNIT AND THEN PROVIDE 3/8" INCHES OF DIGITAL WIRING FROM HORN/STROBE INTO THE BUILDING AND NEATLY COIL FOR FINAL CONNECTION. FINAL WIRING CONNECTION FROM OUTDOOR HORN/STROBE DIGITALS TO THE CO2 ALARM SYSTEM INSTALLATION TO BE PROVIDED BY BEVERAGE INSTALLER.
- PER THE AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG), A MINIMUM OF ONE (1) ADA COMPLIANT ELECTRICAL RECEPTACLE SHALL BE INSTALLED AT AN ACCESSIBLE TABLE. GC/EC SHALL REFERENCE FINAL DECOR PLANS AND PROVIDE RECEPTABLES AS NECESSARY FOR COMPLIANCE. (TYPICAL)
- COORDINATE LOCATION OF RECEPTABLES SO THAT RECEPTABLES ARE LOCATED ON FULL HEIGHT WALLS PER THE DECOR PLAN. STUB UP AND CIRCUIT IN HALF WALL FOR RECEPTABLES NOT ON FULL HEIGHT WALLS, CONFIRM FINAL LOCATIONS WITH DECOR DRAWINGS PRIOR TO ROUGH-IN.
- IF MOUNTED TO A LIGHTING POLE, DT CAMERA SHALL ONLY BE INSTALLED ON A POLE WITH MAXIMUM OF (2) LIGHTING HEADS. PROVIDE ISOLATION OF DT CAMERA MOUNTING HARDWARE AND POLE TO PREVENT BI-METALLIC OR GALVANIC CORROSION.
- E.C. TO PROVIDE AN ALLOWANCE IN BID TO PROVIDE TWO(2) FLEXIBLE POWER CONNECTIONS FOR POWER TO FURNITURE/ FAMILY EXPERIENCE ELEMENTS AS PART OF THE DECOR PACKAGE. E.C. SHALL VERIFY EXACT LOCATIONS IN FIELD AND WITH DECOR DRAWINGS. PROVIDE ALL NECESSARY MATERIALS AND LABOR FOR A COMPLETE AND FULLY NEC CODE COMPLIANT INSTALLATION. ALL COMPONENTS SHALL BE FED FROM A GFCI TYPE CIRCUIT BREAKER AND BRANCH CIRCUIT SHALL CONTAIN TWO PATHS OF GROUNDING (CONDUIT BODY AND AN INSULATED GROUNDING CONDUCTOR) TO COMPLY WITH McDONALD'S GROUNDING STANDARDS.
- DRIVE THRU WINDOW POWER, CONFIRM REQUIREMENTS WITH MANUFACTURER DRAWINGS.

KEY NOTES

- PROVIDE POWER FOR CONNECTION TO SELF ORDER KIOSKS. COORDINATE EXACT LOCATION OF KIOSKS WITH DECOR DRAWINGS. PROVIDE 2#12, 1#12 GRD., & 1#12 ISOLATED GROUND ON A 20A DEDICATED CIRCUIT FED FROM THE CP PANEL FOR EVERY KIOSK.
- VERIFY DROP CORDS AND RECEPTABLES DO NOT FALL BELOW HEIGHTS LISTED ON E3.0 ELECTRICAL SCHEDULE. RECEPTABLES SHOULD BE LOCATED AT HEIGHTS TO AVOID CONTACT WITH HOT APPLIANCES.
- PROVIDE J-BOX ABOVE CEILING NEAR KIOSK FOR FUTURE DIGITAL MERCHANDISER. EXTEND CIRCUIT TO THIS LOCATION FROM MENU BOARDS IN SERVICE AREA. EXTEND J-HOOKS FROM SERVICE AREA FOR FUTURE DATA CABLES.
- EC TO INSTALL DROP CORDS JUSTIFIED TO THE DRIVE THRU SIDE OF THE BUILDING
- AT&T TO PROVIDE #8 GRD CONDUCTOR FROM BUILDING EXTERIOR WIRELESS ACCESS POINT TO ABOVE INTERIOR CEILING. EC TO EXTEND CONDUCTOR TO BUILDING GROUNDING SYSTEM. COORDINATE EXACT LOCATION OF ACCESS POINT IN FIELD WITH AT&T.
- CONTRACTOR TO PUNCH HOLES IN SERVICE POD FOR CABLE AND CONDUIT ROUTING. UTILIZE BUSHINGS PROVIDE WITH SERVICE POD TO PROTECT CABLES
- REFER TO DETAIL ON A3.1 FOR DIMENSIONS OF ORB MONITOR, DIGITAL MERCHANDISER AND DMB'S ROUGH-INS
- PROVIDE POWER AND DATA ROUGH-INS FOR CASH HANDLERS REFER TO 4/E3.1 FOR MORE INFORMATION. COORDINATE EXACT LOCATION WITH DECOR DRAWINGS.
- CONNECT KIOSK RETROFIT KIT TO CASH HANDLERS. REFER TO 5/E3.1 FOR MORE INFORMATION. COORDINATE EXACT LOCATION WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

PREPARED BY: **McDonald's USA, LLC**
 DRAWN BY: TFF
 STD ISSUE DATE: 2022-08
 REVIEWED BY: R.K.
 DATE ISSUED: 10-21-2022
 TITLE: 2022 STANDARD BUILDING - BB20
 DESCRIPTION: 45114-WOOD/WOOD
 WOOD BEARING WALLS W/HARDBOARD SIDING
 WOOD ROOF TRUSS FRAMING
 E/FIS/BATEEN/ADM PANEL/HARDBOARD SIDING
 SITE ID: 024-1289
 SALEM, MO

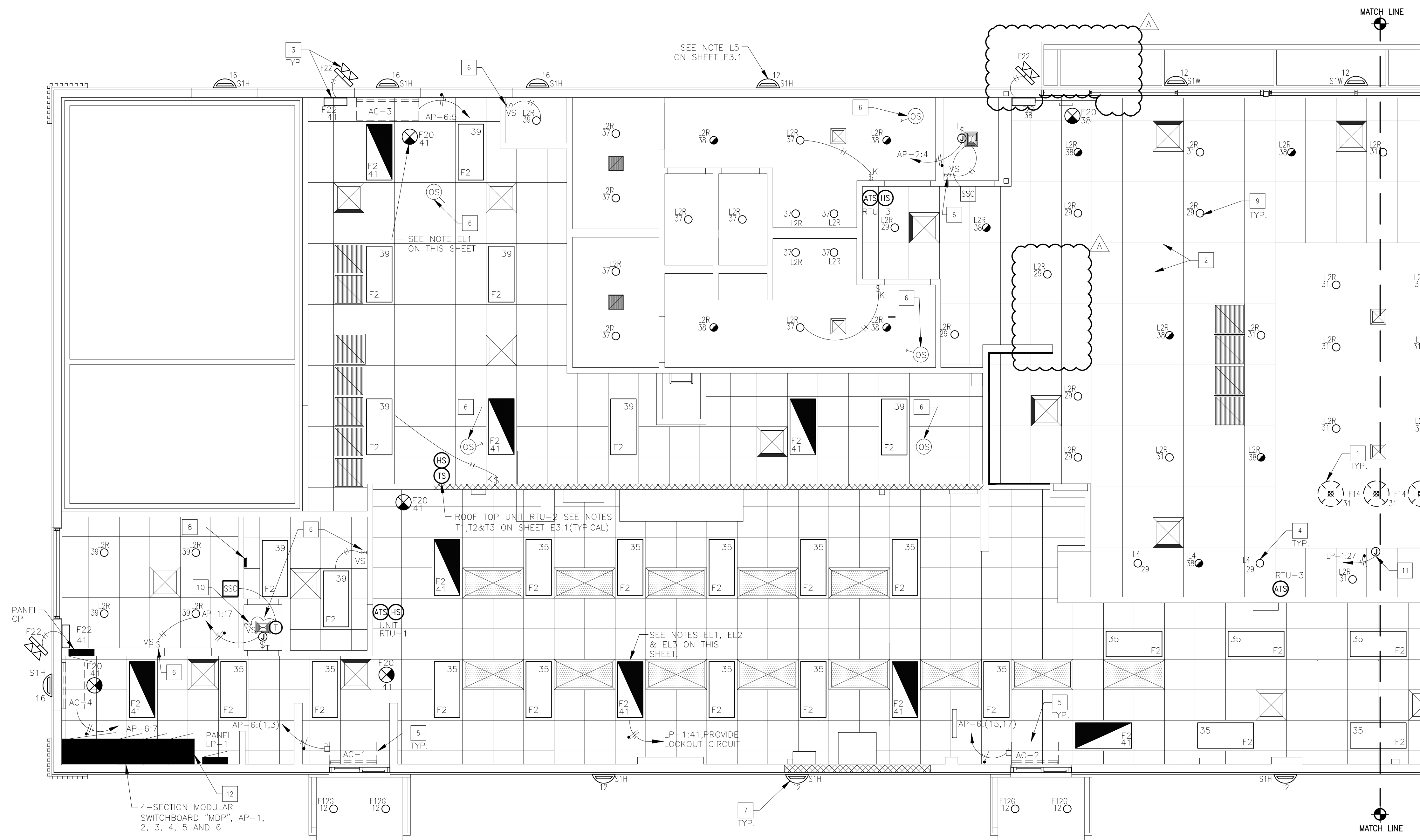
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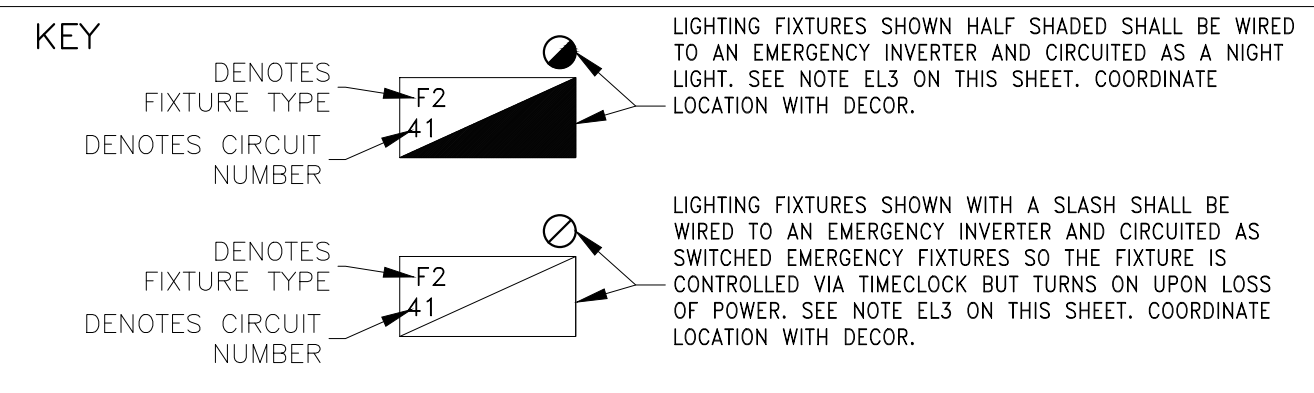
BIB	BY	DATE	REV	DESCRIPTION
		8/25/23	A	ESE UPDATE

SHEET NO. 24-1289.00.0
E1.1
 ROUGH-IN PLAN



- KEY NOTES**
- CENTER PENDANT LIGHTS OVER TABLES (TYPICAL)
 - ALL SOFFIT LOCATIONS, LIGHTING, & SUPPLY GRILLS SHALL BE COORDINATED WITH DECOR COMPANY DRAWING PRIOR TO INSTALLATION.
 - EC SHALL INSTALL AND CONFIGURE REMOTE EMERGENCY LIGHTING AT ALL EGRESS EXTERIOR DOORS FOR MAXIMUM ILLUMINATION AT POINTS OF EGRESS. INSTALL WP J-BOX WITHIN SOFFIT TO ALLOW A FLUSH INSTALLATION OF ANY EXTERIOR EMERGENCY EGRESS LIGHTING (TYPICAL).
 - OPTIONAL ADJUSTABLE WALL WASH FIXTURE TO ILLUMINATE LOGO OR GRAPHICS. EC SHALL VERIFY EXACT LOCATION SO AS TO ADEQUATELY ILLUMINATE McDONALD'S ARCH LOGO SIGN AND GRAPHICS.
 - AIR CURTAIN UNIT, NON HEATED VERSION TO USE 1/2" C. 2#12, 1#12GRD. HEATED VERSION TO USE 1" C. 2#6, 1#10 GRD. (TYPICAL).
 - PROVIDE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR OR WALL MOUNTED VACANCY SENSOR AS SHOWN. ORDER ALL SENSORS FROM SECURITY LIGHTING SYSTEMS, INC.
 - RADIAL WALL SCONCE. SEE NOTE L2 ON SHEETS A2.0 & A2.1. (TYPICAL)
 - BUILDING AUTOMATION SYSTEM LOCATION. SEE LIGHTING CONTROL DETAILS ON SHEET E4.1.
 - PROVIDE LIGHTING INVERTER FOR USE WITH FIXTURES SHOWN SHADED OR SLASHED. MODEL #L1251 SHOULD BE USED FOR L2R, L4 & F12G WITH NOT MORE THAN EIGHT DOWNLIGHTS CONNECTED TO EACH INVERTER. IF DECOR USES ALTERNATE FIXTURES, COORDINATE INVERTER TO BE USED WITH LIGHTING SUPPLIER. E.C. SHALL VERIFY THE QUANTITY OF FIXTURES THAT CAN BE CONNECTED WITHOUT EXCEEDING OPERATING CAPACITY OF UNIT AND PROVIDE ADDITIONAL CIRCUITS AND INVERTERS AS REQUIRED. (TYPICAL)
 - CENTER VACANCY SENSOR SWITCH OPPOSITE COMPUTER RACK IN A LOCATION ACCESSIBLE FROM BOTH DOORS FOR CONTROL OF CEILING MOUNTED LIGHT, IN DATA ROOM. FAN CONTROLLED BY LOCAL THERMOSTAT.
 - PROVIDE POWER FOR LIGHT WITHIN TOY DISPLAY. COORDINATE EXACT LOCATION WITH DECOR DRAWINGS.
 - LIGHTING CONTACTORS IN NEMA 1 ENCLOSURE JUST BELOW CEILING. EC SHALL PROVIDE 120 VOLT CONTROL CIRCUIT TO CONTACTOR PANEL. VERIFY EXACT LOCATION IN FIELD AND REFER TO DRAWING E4.1 FOR ADDITIONAL DETAILS.

- EMERGENCY LIGHTING NOTES**
- EC SHALL INSTALL A LOCK ON CIRCUIT BREAKER HANDLE FOR ALL EMERGENCY LIGHTING CIRCUITS. EC SHALL VERIFY ALL REQUIREMENTS AND FINAL EMERGENCY LIGHTING LOCATIONS WITH LOCAL AUTHORITIES. INCLUDE ALL COSTS IN BASE BID.
 - IF NOT INSTALLED BY MANUFACTURER, EC SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF THE EMERGENCY INVERTER IN NIGHT LIGHTING FIXTURES SHOWN ON THIS SHEET.
 - LED FIXTURES DENOTED AS NIGHT LIGHTING OR SWITCHED EMERGENCY SHALL BE APPROVED WITH DUAL LITE LIGHTING INVERTER MODEL # L1251. INVERTER SHALL BE CAPABLE OF ILLUMINATING FIXTURE FOR 1.5 HOURS TO COMPLY WITH NEC SECTION 700 AND UL924. E.C. SHALL NOT INSTALL MORE THAN EIGHT FIXTURES TO EACH INVERTER. PROVIDE ADDITIONAL INVERTERS AS NECESSARY.
 - EMERGENCY BATTERY LIGHTING WALL PACKS IN PLAYPLACE SHALL BE LOCATED 50 AS TO PROVIDE FOR MAXIMUM ILLUMINATION OF AREA. EC SHALL VERIFY EXACT PLACEMENT IN THE FIELD WITH McDONALD'S ACM. (IF APPLICABLE)
 - EMERGENCY LIGHTING HAS BEEN DESIGNED PER NFPA 101 TO MAINTAIN 1 FC IN PATH OF EGRESS. IF FIELD CONDITIONS REQUIRE ANY CHANGES TO LIGHTING DESIGN, EMERGENCY LIGHTING, SHALL BE INSTALLED TO MEET THE ABOVE REQUIREMENTS.



1 PARTIAL LIGHTING PLAN
E2.0 1/4" = 1'-0"

SEE SHEET E3.1 FOR GENERAL LIGHTING NOTES AND "ROOF PLAN" (SHEET E2.2) FOR ADDITIONAL ELECTRICAL ROUGH-IN & LIGHTING REQUIREMENTS.

McDONALD'S SITE SIGNAGE:

- EC SHALL PROVIDE:
- ELECTRICAL CONTRACTOR SHALL COORDINATE POWER REQUIRED FOR ROAD SIGN. MOST SIGNS REQUIRE (1) 20 AMP 120V CIRCUIT. IF USED A 90-200 SIGN REQUIRES (4) 20 AMP 120V CIRCUITS OR ONE 3-PHASE 60 AMP 120/208V CIRCUIT. COORDINATE WITH SUPPLIERS DRAWINGS.
- 20 AMP 208 VOLT CIRCUIT, EC TO WIRE 2#12 TO 208 VOLT FLAG FLOODLIGHTS.
 - 20 AMP 120 VOLT CIRCUIT TO D.C.O. IN ROAD SIGN BASE IF REQUIRED.
 - 20 AMP 120 VOLT CIRCUITS FOR INGRESS/EGRESS DIRECTIONAL SIGNS (IF APPLICABLE).
- *VERIFY EXACT LOCATIONS/TYPES/QUANTITIES OF ALL THE ABOVE WITH SITE/CIVIL PLANS AND MCD ACM.

LIGHTING FIXTURE SCHEDULE:

MARK	SYMBOL	DESCRIPTION	DIFFUSER	LAMPS		BALLAST	MOUNTING	MANUFACTURER AND CATALOG NUMBER
				WATTS	TYPE			
F2		2' X 4' GRID TROFFER	PRISMATIC ACRYLIC	44W	LED	-	RECESSED	SECURITY LIGHTING: # LCAT24-35HLG-EDU-WP-GK
F7		1' X 4' GRID TROFFER	PRISMATIC ACRYLIC	44W	LED	-	RECESSED	SECURITY LIGHTING # LCAT14-35HLG-EDU-WP-GK
L2		2 HEAD DOUBLE GIMBALL	-	14W	LED	-	RECESSED	SECURITY LIGHTING # CM2-120-LM-30-SBS NOT USED FOR ALL DECORS. VERIFY WITH PHOTOMETRIC
L2R		4" LED DOWN LIGHT	-	16W	LED	-	RECESSED	SECURITY LIGHTING # RDA-136LM-30-FL-S/RDA-136-H VERIFY DOWNLIGHT TO BE USED WITH PHOTOMETRIC
L4		3" LED ADJUSTABLE DOWN LIGHT	-	7W	LED	-	RECESSED	SECURITY LIGHTING # RDA-60LM-30-NF-S/RDA-60-H VERIFY DOWNLIGHT TO BE USED WITH PHOTOMETRIC
F12G		6" LED DOWN LIGHT - SHALLOW HOUSING	-	12W	LED	-	RECESSED	SECURITY LIGHTING # LB6LED10L-50K-9-GI/RMNIC-QL
F14		ALPHABET PENDANT	-	(1)-8W	LED	-	PENDANT	SECURITY LIGHTING # MS-P-A-BM-108LED-CBC (TO BE VERIFIED WITH DECOR DRAWINGS)
F20		EXIT SIGN WITH BATTERY BACKUP	-	1.8W	LED	-	SURFACE	SECURITY LIGHTING: EUEVRW. SEE NOTE LS2 ON THIS SHEET.

F21		2 HEADED EMERGENCY BATTERY LIGHT	-	-	LED	-	SURFACE TO WALL OR CEILING	SECURITY LTG. #EV4D
F22		EMERG BATTERY & 2 REMOTE HEADS	-	-	LED	-	SURFACE TO WALL OR SOFFIT	SECURITY LTG. #EV4D-02L-0/EV00B
F23		2 HEADED EMERG LIGHT & 2 REMOTE HEAD IF REQ'D	-	-	LED	-	SURFACE TO WALL OR SOFFIT	SECURITY LTG. #EV4D/EV00B
S1H		"DOWN ONLY" RADIAL WALL SCONCE - SILVER	TEMPERED GLASS	(1)-14W	LED	-	SURFACE TO WALL	SECURITY LIGHTING: #RWSC-36L-5K-DO-U-PS
S1W		"DOWN ONLY" RADIAL WALL SCONCE - WHITE	TEMPERED GLASS	(1)-14W	LED	-	SURFACE TO WALL	SECURITY LIGHTING: #RWSC-36L-5K-DO-U-WH

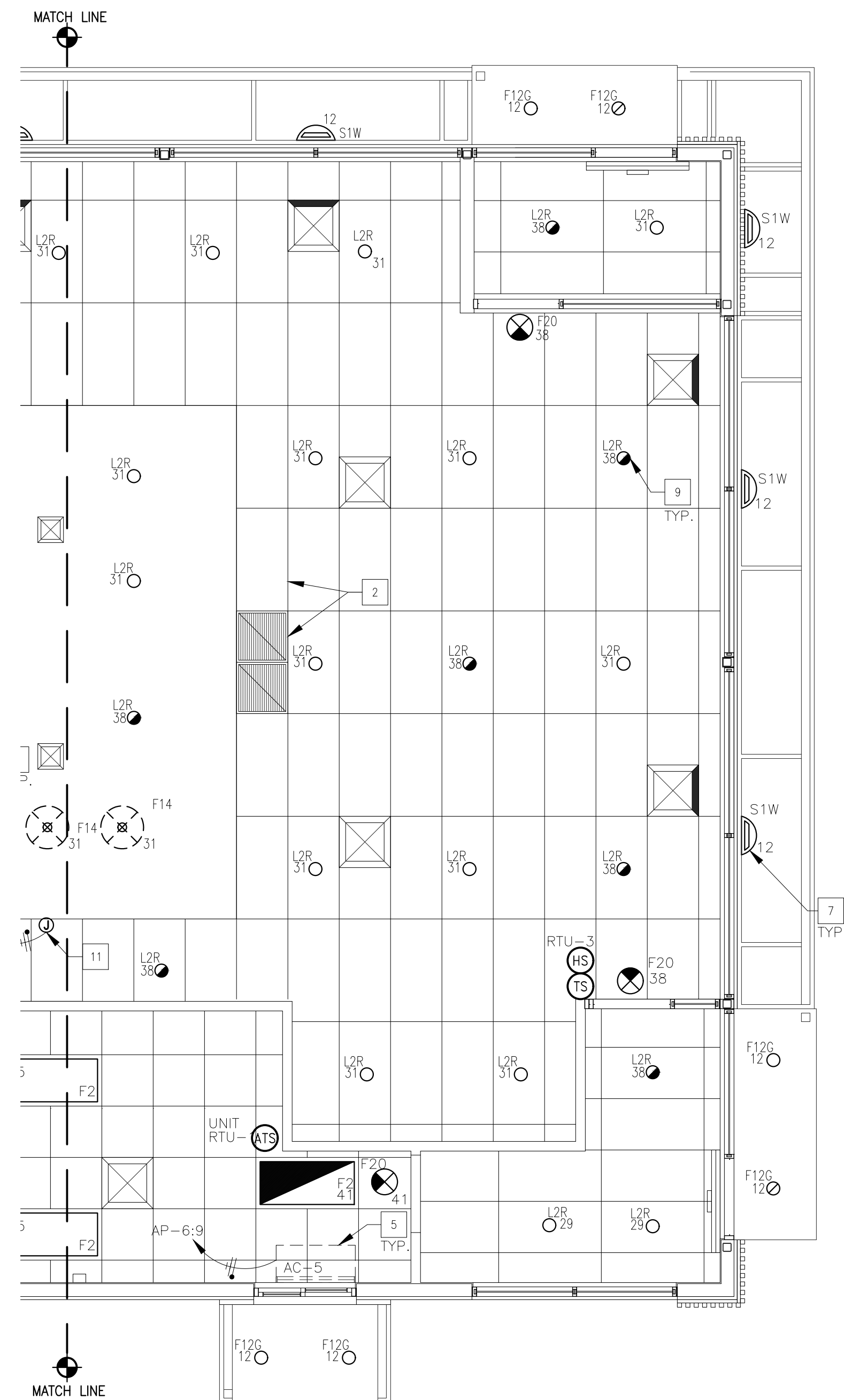
- LIGHTING SCHEDULE NOTES**
- LS1. ORDER LED EXIT SIGNS WITH LETTER COLORS THAT COMPLY WITH LOCAL CODES. - FOR RED LETTERS USE BEVE-U-R (UNIVERSAL), - FOR GREEN LETTERS USE BEVE-U-G (UNIVERSAL), OR IF THE ABOVE EXIT SIGNS DO NOT COMPLY WITH LOCAL CODES USE: LED SIGN WITH BATTERY BACKUP, LETTER SIZE, COLOR, TYPE & DIRECTIONAL ARROWS AS REQUIRED BY THE LOCAL AUTHORITIES.
- LS2. ALL INTERIOR LIGHT FIXTURES SHALL BE 120 VOLT UNLESS NOTED OTHERWISE.
- LS3. LIGHTING FIXTURES HAVE BEEN CHOSEN TO ACHIEVE MAXIMUM ENERGY CONSERVATION WHILE MAINTAINING ADEQUATE LEVEL OF ILLUMINATION. SPECIFICATIONS SHALL BE STRICTLY FOLLOWED. ANY DEVIATION FROM THE SPECIFICATIONS SHALL BE APPROVED IN WRITING BY McDONALD'S CORPORATION.

ORDER ALL LIGHT FIXTURES FROM:

SECURITY LIGHTING SYSTEMS, INC.
PHONE: 1-800-LIGHT-IT
EMAIL: QUOTATIONS@SECURITYLIGHTING.COM

CS ILLUMINATIONS
PHONE: 760-477-1244
EMAILS: MCD@CSILLUMINATIONS.COM
WWW.CSILLUMINATIONS.COM/MCD

PREPARED BY: **McDONALD'S USA, LLC**
 DRAWN BY: TPF
 STD ISSUE DATE: 2022_08
 REVIEWED BY: R.K.
 DATE ISSUED: 10-21-2022
 SITE ADDRESS: 1000 S Main Street, SALEM, MO 64401
 TITLE: 2022 STANDARD BUILDING - BB20
 45114-WOOD/WOOD
 DESCRIPTION: WOOD BEARING WALLS W/HARDBOARD SIDING, WOOD ROOF TRUSS FRAMING, EPS/BATTEN/ACM PANEL/HARDBOARD SIDING
 SHEET NO: E2.0
 PARTIAL LIGHTING PLAN
 REV: A 8/25/23
 ESE UPDATE
 DATE
 DESCRIPTION
 BY



1 PARTIAL LIGHTING PLAN
E2.1 1/4" = 1' - 0"

- KEY NOTES**
- CENTER PENDANT LIGHTS OVER TABLES (TYPICAL)
 - ALL SOFFIT LOCATIONS, LIGHTING, & SUPPLY GRILLS SHALL BE COORDINATED WITH DECOR COMPANY DRAWING PRIOR TO INSTALLATION.
 - EC SHALL INSTALL AND CONFIGURE REMOTE EMERGENCY LIGHTING AT ALL EGRESS EXTERIOR DOORS FOR MAXIMUM ILLUMINATION AT POINTS OF EGRESS. INSTALL WP J-BOX WITHIN SOFFIT TO ALLOW A FLUSH INSTALLATION OF ANY EXTERIOR EMERGENCY EGRESS LIGHTING (TYPICAL).
 - OPTIONAL ADJUSTABLE WALL WASH FIXTURE TO ILLUMINATE LOGO OR GRAPHICS. EC SHALL VERIFY EXACT LOCATION SO AS TO ADEQUATELY ILLUMINATE McDONALD'S ARCH LOGO SIGN AND GRAPHICS.
 - AIR CURTAIN UNIT. NON HEATED VERSION TO USE 1/2" C. 2#12, 1#12GRD. HEATED VERSION TO USE 1" C. 2#6, 1#10 GRD. (TYPICAL).
 - PROVIDE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR OR WALL MOUNTED VACANCY SENSOR AS SHOWN. ORDER ALL SENSORS FROM SECURITY LIGHTING SYSTEMS, INC.
 - RADIAL WALL SCONCE. SEE NOTE L2 ON SHEET E3.1 AND ARCHITECTURAL ELEVATIONS ON SHEETS A2.0 & A2.1. (TYPICAL)
 - BUILDING AUTOMATION SYSTEM LOCATION. SEE LIGHTING CONTROL DETAILS ON SHEET E4.1.
 - PROVIDE LIGHTING INVERTER FOR USE WITH FIXTURES SHOWN SHADED OR SLASHED. MODEL #LG12ST SHOULD BE USED FOR L2R, L4 & F2G WITH NOT MORE THAN EIGHT DOWNLIGHTS CONNECTED TO EACH INVERTER. IF DECOR USES ALTERNATE FIXTURES, COORDINATE INVERTER TO BE USED WITH LIGHTING SUPPLIER. E.C. SHALL VERIFY THE QUANTITY OF FIXTURES THAT CAN BE CONNECTED WITHOUT EXCEEDING OPERATING CAPACITY OF UNIT AND PROVIDE ADDITIONAL CIRCUITS AND INVERTERS AS REQUIRED. (TYPICAL)
 - CENTER VACANCY SENSOR SWITCH OPPOSITE COMPUTER RACK IN A LOCATION ACCESSIBLE FROM BOTH DOORS FOR CONTROL OF CEILING MOUNTED LIGHT, IN DATA ROOM. FAN CONTROLLED BY LOCAL THERMOSTAT.
 - PROVIDE POWER FOR LIGHT WITHIN TOY DISPLAY. COORDINATE EXACT LOCATION WITH DECOR DRAWINGS.
 - LIGHTING CONTACTORS IN NEMA 1 ENCLOSURE JUST BELOW CEILING. EC SHALL PROVIDE 120 VOLT CONTROL CIRCUIT TO CONTACTOR PANEL. VERIFY EXACT LOCATION IN FIELD AND REFER TO DRAWING E4.1 FOR ADDITIONAL DETAILS.

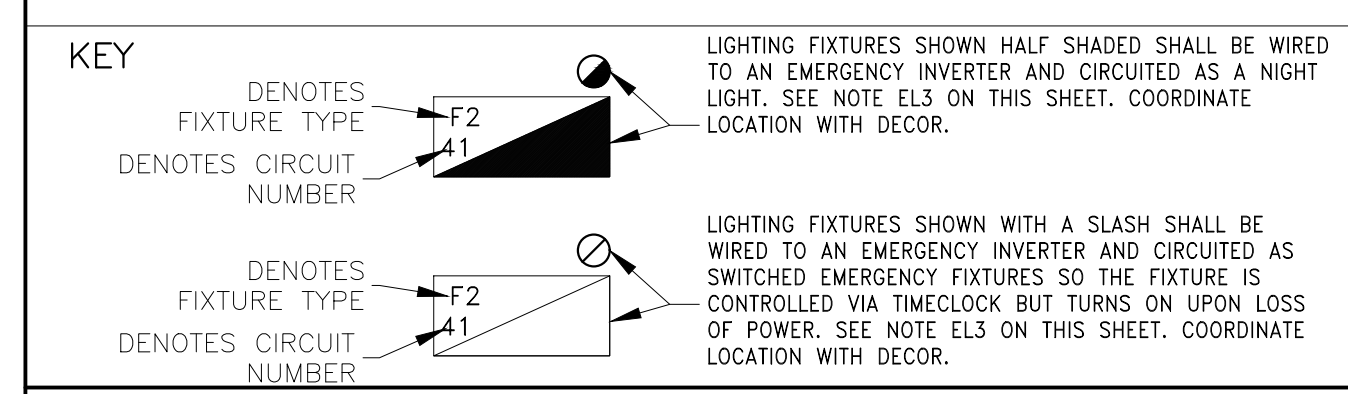
- EMERGENCY LIGHTING NOTES**
- EC SHALL INSTALL A LOCK ON CIRCUIT BREAKER HANDLE FOR ALL EMERGENCY LIGHTING CIRCUITS. EC SHALL VERIFY ALL REQUIREMENTS AND FINAL EMERGENCY LIGHTING LOCATIONS WITH LOCAL AUTHORITIES. INCLUDE ALL COSTS IN BASE BID.
 - IF NOT INSTALLED BY MANUFACTURER, EC SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF THE EMERGENCY INVERTER IN NIGHT LIGHTING FIXTURES SHOWN ON THIS SHEET.
 - LED FIXTURES DENOTED AS NIGHT LIGHTING OR SWITCHED EMERGENCY SHALL BE APPROVED WITH DUAL LIGHTING INVERTER MODEL # LG12ST. INVERTER SHALL BE CAPABLE OF ILLUMINATING FIXTURE FOR 1.5 HOURS TO COMPLY WITH NEC SECTION 700 AND UL924. E.C. SHALL NOT INSTALL MORE THAN EIGHT FIXTURES TO EACH INVERTER. PROVIDE ADDITIONAL INVERTERS AS NECESSARY.
 - EMERGENCY BATTERY LIGHTING WALL PACKS IN PLAYPLACE SHALL BE LOCATED 50 AS TO PROVIDE FOR MAXIMUM ILLUMINATION OF AREA. EC SHALL VERIFY EXACT PLACEMENT IN THE FIELD WITH McDONALD'S ACM. (IF APPLICABLE)
 - EMERGENCY LIGHTING HAS BEEN DESIGNED PER NFPA 101 TO MAINTAIN 1 FC IN PATH OF EGRESS. IF FIELD CONDITIONS REQUIRE ANY CHANGES TO LIGHTING DESIGN, EMERGENCY LIGHTING, SHALL BE INSTALLED TO MEET THE ABOVE REQUIREMENTS.

McDONALD'S SITE SIGNAGE:

EC SHALL PROVIDE:
ELECTRICAL CONTRACTOR SHALL COORDINATE POWER REQUIRED FOR ROAD SIGN. MOST SIGNS REQUIRE (1) 20 AMP 120V CIRCUIT. IF USED A 90-200 SIGN REQUIRES (4) 20 AMP 120V CIRCUITS OR ONE 3-PHASE 60 AMP 120/208V CIRCUIT. COORDINATE WITH SUPPLIERS DRAWINGS.
(1) 20 AMP 208 VOLT CIRCUIT, EC TO WIRE 2#12 TO 208 VOLT FLAG FLOODLIGHTS.
(1) 20 AMP 120 VOLT CIRCUIT TO D.C.O. IN ROAD SIGN BASE IF REQUIRED.
(2) 20 AMP 120 VOLT CIRCUITS FOR INGRESS/EGRESS DIRECTIONAL SIGNS (IF APPLICABLE).
*VERIFY EXACT LOCATIONS/TYPES/QUANTITIES OF ALL THE ABOVE WITH SITE/CIVIL PLANS AND MCD ACM.

ORDER ALL LIGHT FIXTURES FROM:

SECURITY LIGHTING SYSTEMS, INC.
PHONE: 1-800-LIGHT-IT
EMAIL: QUOTATIONS@SECURITYLIGHTING.COM
CS ILLUMINATIONS
PHONE: 760-477-1244
EMAILS: MCD@CSILLUMINATIONS.COM
WWW.CSILLUMINATIONS.COM/MCD



SEE SHEET E3.1 FOR GENERAL LIGHTING NOTES AND "ROOF PLAN" (SHEET E2.2) FOR ADDITIONAL ELECTRICAL ROUGH-IN & LIGHTING REQUIREMENTS.

LIGHTING FIXTURE SCHEDULE:

MARK	SYMBOL	DESCRIPTION	DIFFUSER	LAMPS		BALLAST	MOUNTING	MANUFACTURER AND CATALOG NUMBER
				WATTS	TYPE			
F2	[Symbol]	2' X 4' GRID TROFFER	PRISMATIC ACRYLIC	44W	LED	-	RECESSED	SECURITY LIGHTING: # LCAT24-35HLG-EDU-WP-GK
F7	[Symbol]	1' X 4' GRID TROFFER	PRISMATIC ACRYLIC	44W	LED	-	RECESSED	SECURITY LIGHTING # LCAT14-35HLG-EDU-WP-GK
L2	[Symbol]	2 HEAD DOUBLE GIMBALL	-	14W	LED	-	RECESSED	SECURITY LIGHTING # GM2-120-LM-30-SBS NOT USED FOR ALL DECORS. VERIFY WITH PHOTOMETRIC
L2R	[Symbol]	4" LED DOWN LIGHT	-	16W	LED	-	RECESSED	SECURITY LIGHTING # RDA-136LM-30-FL-S/RDA-136-H VERIFY DOWNLIGHT TO BE USED WITH PHOTOMETRIC
L4	[Symbol]	3" LED ADJUSTABLE DOWN LIGHT	-	7W	LED	-	RECESSED	SECURITY LIGHTING # RDA-60LM-30-NF-S/RDA-60-H VERIFY DOWNLIGHT TO BE USED WITH PHOTOMETRIC
F12G	[Symbol]	6" LED DOWN LIGHT - SHALLOW HOUSING	-	12W	LED	-	RECESSED	SECURITY LIGHTING # LB6LED10L-50K-9-GL/RMNIC5-QL
F14	[Symbol]	ALPHABET PENDANT	-	(1)-8W	LED	-	PENDANT	SECURITY LIGHTING # MS-P-A-BM-108LED-CBC (TO BE VERIFIED WITH DECOR DRAWINGS)
F20	[Symbol]	EXIT SIGN WITH BATTERY BACKUP	-	1.8W	LED	-	SURFACE	SECURITY LIGHTING: EUEURWE. SEE NOTE LS2 ON THIS SHEET.

F21	[Symbol]	2 HEADED EMERGENCY BATTERY LIGHT	-	-	LED	-	SURFACE TO WALL OR CEILING	SECURITY LTG. #EV4D
F22	[Symbol]	EMERG BATTERY & 2 REMOTE HEADS	-	-	LED	-	SURFACE TO WALL OR SOFFIT	SECURITY LTG. #EV4D-02L-0/EV00B
F23	[Symbol]	2 HEADED EMERG LIGHT & 2 REMOTE HEAD IF REQ'D	-	-	LED	-	SURFACE TO WALL OR SOFFIT	SECURITY LTG. #EV4D/EV00B
S1H	[Symbol]	"DOWN ONLY" RADIAL WALL SCONCE - SILVER	TEMPERED GLASS	(1)-14W	LED	-	SURFACE TO WALL	SECURITY LIGHTING: #RW5C-36L-5K-DO-U-PS
S1W	[Symbol]	"DOWN ONLY" RADIAL WALL SCONCE - WHITE	TEMPERED GLASS	(1)-14W	LED	-	SURFACE TO WALL	SECURITY LIGHTING: #RW5C-36L-5K-DO-U-WH

- LIGHTING SCHEDULE NOTES**
- LS1. ORDER LED EXIT SIGNS WITH LETTER COLORS THAT COMPLY WITH LOCAL CODES. - FOR RED LETTERS USE BEVE-U-R (UNIVERSAL), - FOR GREEN LETTERS USE BEVE-U-G (UNIVERSAL), OR IF THE ABOVE EXIT SIGNS DO NOT COMPLY WITH LOCAL CODES USE: LED SIGN WITH BATTERY BACKUP, LETTER SIZE, COLOR, TYPE & DIRECTIONAL ARROWS AS REQUIRED BY THE LOCAL AUTHORITIES.
 - LS2. ALL INTERIOR LIGHT FIXTURES SHALL BE 120 VOLT UNLESS NOTED OTHERWISE.
 - LS3. LIGHTING FIXTURES HAVE BEEN CHOSEN TO ACHIEVE MAXIMUM ENERGY CONSERVATION WHILE MAINTAINING ADEQUATE LEVEL OF ILLUMINATION. SPECIFICATIONS SHALL BE STRICTLY FOLLOWED. ANY DEVIATION FROM THE SPECIFICATIONS SHALL BE APPROVED IN WRITING BY McDONALD'S CORPORATION.

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McDonald's USA, LLC
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PREPARED BY: CORE STATES GROUP
2121 4th Street
Birmingham, AL 35212
www.corestates.com

DATE ISSUED: 10-21-2022

REVIEWED BY: R.K.

STANDARD BUILDING - BBZ0
45114-WOOD/WOOD

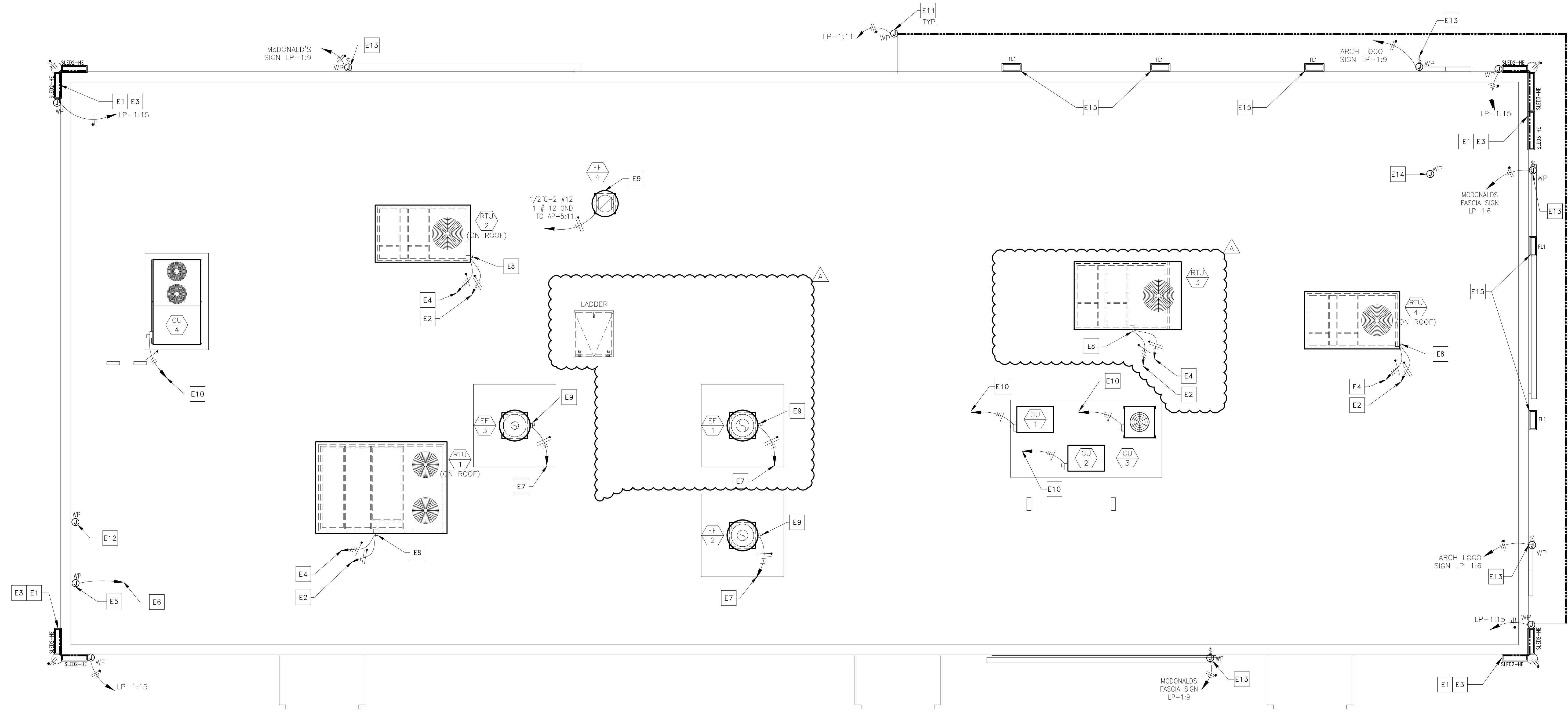
DESCRIPTION: BEARING WALLS W/HARDE BOARD SIDING
WOOD ROOF TRUSS FRAMING
EPS/BATTEN/ACM PANEL/HARDE BOARD SIDING

SHEET NO: E2.1
PARTIAL LIGHTING PLAN

SALEM, MO

ELECTRICAL ROOF PLAN

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



KEYED NOTES

- E1** EVERY LINEAR RUN OF SLED FIXTURES REQUIRES A DEDICATED WHIP KIT PROVIDED WITH FIXTURE. CONTRACTOR TO FIELD VERIFY FIXTURE MOUNTING HEIGHT, LOCATION, QUANTITY, FIXTURE LENGTHS, AND ALL ELECTRICAL CONNECTION REQUIREMENTS WITH SECURITY LIGHTING PRIOR TO ORDERING AND INSTALLATION (TYPICAL).
- E2** WEATHER PROOF RECEPTACLES WITH GFCI PROTECTION ARE PROVIDED AND MOUNTED WITHIN MOTOR HOUSING LOCATIONS PER NEC ARTICLE 210.63. CIRCUIT SHALL EMANATE FROM PANEL AP-5,CCT.#13,(TYPICAL).
- E3** SMOOTH BRACING IS REQUIRED FOR LED FIXTURE INSTALLATION UNDER COPING/FLASHING.(TYPICAL)
- E4** REFER TO SHEET E4.0 FOR CONDUIT AND WIRE SIZE.(TYPICAL)
- E5** E.C SHALL PROVIDE A WEATHER-PROOF J-BOX ON INSIDE FACE OF PARAPET, MOUNTED 6" BELOW TOP OF PARAPET FOR LIGHTING CONTROL PANEL PHOTOCELL. (PHOTOCELL FURNISHED BY OTHERS AND INSTALLED BY EC). REFER TO LIGHTING CONTROL DETAILS ON E4.1
- E6** TO LIGHTING ENCLOSURE W/ TIMER. COORDINATE WITH LIGHTING CONTROL DETAILS ON SHEET E4.1
- E7** COOKING EQUIPMENT EXHAUST FANS. SEE SHEET E3.0 FOR ELECTRICAL REQUIREMENTS. SEE SHEET E3.2 FOR EXHAUST FAN INTERLOCK WIRING DIAGRAMS. (TYPICAL)
- E8** PROVIDE NEMA 3R DISCONNECT WITH CURRENT LIMITING FUSES TO COMPLY WITH NEC 110 AND 440. ELECTRICAL CONTRACTOR SHALL STUB UP THRU RACEWAY IN CURB TO ELIMINATE CONDUIT PENETRATION OF ROOFING. (TYPICAL)
- E9** EXTERNAL NEMA 3R MOUNTED ON SIDE OF FAN BY MANUFACTURER. ELECTRICAL CONTRACTOR SHALL STUB-UP THRU ROOF AND PROVIDE FLEXIBLE WEATHERPROOF CONDUIT FROM ROOF PENETRATION TO DISCONNECT (TYPICAL).
- E10** REMOTE CONDENSING UNITS. SEE SHEET E3.0 FOR WIRING AND CIRCUITRY REQUIREMENTS.
- E11** CANOPY LIGHT. LP-1:11 EC SHALL VERIFY EXACT SPECIFICATIONS AND LOCATION WITH MANUFACTURER. PLACE REMOTE POWER SUPPLIES ABOVE ACCESSIBLE CEILING WITHIN VESTIBULE. VERIFY EXACT INFEEED REQUIREMENTS IN THE FIELD. SEE NOTE L5 ON SHEET E3.1. (TYPICAL)
- E12** E.C. SHALL PROVIDE A WEATHER-PROOF JUNCTION BOX WITH 3/4" STUB DOWN TO CEILING SPACE WITH BUSHING FOR ROOF-TOP CAMERA OR SATELLITE. VERIFY EXACT LOCATION(S) WITH MCD AREA CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- E13** E.C. SHALL PROVIDE A JUNCTION BOX FOR ARCH LOGO / McDONALD'S FASCIA / PLAY-PLACE SIGN. SEE NOTE L1 ON SHEET E3.1. COORDINATE EXACT LOCATION IN FIELD WITH ACM. ALL SIGNS PROVIDED WITH INTEGRAL DISCONNECT SWITCH FROM MANUFACTURER.(TYPICAL)
- E14** E.C. SHALL PROVIDE A JUNCTION BOX FOR ROOF-TOP FLAG POLE LIGHTING. VERIFY LOCATION(S) WITH MCD PROJECT MANAGER PRIOR TO INSTALLATION.
- E15** FLOOD LIGHT MOUNTED ABOVE CANOPY. LP-1:11 EC SHALL VERIFY EXACT SPECIFICATIONS AND LOCATION WITH ARCHITECTURAL ELEVATIONS. VERIFY EXACT INFEEED REQUIREMENTS IN THE FIELD. SEE FLOOD LIGHT DETAIL ON SHEET E3.1. (TYPICAL)

DRAWING NOTES

- SEE DRAWING M-4.0 FOR GENERAL MECHANICAL NOTES.
- SEE DRAWINGS M-3.0 AND M-4.1 FOR MECHANICAL EQUIPMENT SCHEDULES AND DETAILS.
- SEE DRAWING M-4.0 FOR MECHANICAL LEGEND.
- SEE DRAWING K-2.1 FOR REMOTE CONDENSER AND MAC UNIT INFORMATION.
- SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

SLED GENERAL NOTES

- PLACE LED FIXTURE AT DESIRED LOCATION AND ATTACH POWER SUPPLY AND MOUNTING BRACKET AS RECOMMENDED BY MANUFACTURER.
- EC SHALL CONNECT NEW FIXTURES TO A 120V CIRCUIT AND MAKE ALL ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATING SYSTEM.

LED FIXTURE SCHEDULE:

MARK	SYMBOL	DESCRIPTION	DIFFUSER	LAMPS		MOUNTING	MANUFACTURER AND CATALOG NUMBER
				WATTS	TYPE		
SLED2-HE		DOWN ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-10W PER FIXTURE	LED	SURFACE	SECURITY LIGHTING: SLED-HE-24-DO-U-IO CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS.
SLED3-HE		DOWN ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-14W PER FIXTURE	LED	SURFACE	SECURITY LIGHTING: SLED-HE-36-DO-U-IO CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS.
SLED4-HE		DOWN ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-19W PER FIXTURE	LED	SURFACE	SECURITY LIGHTING: SLED-HE-48-DO-U-IO CUSTOM BUILT FOR EXTERIOR ACCENT CHANNELS.
FL1		UP ONLY ACCENT LIGHTING (SEE PLAN)	TEMPERED GLASS	1-16W PER FIXTURE	LED	SURFACE	SECURITY LIGHTING: EL218-W-5-8L-SK-UV-IO-JWIO

PREPARED FOR: **McDonald's USA, LLC**
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DRAWN BY: TPF
 STD ISSUE DATE: 2022_08
 REVIEWED BY: R.K.
 DATE ISSUED: 10-21-2022

TITLE: 2022 STANDARD BUILDING - BBZ0
 45114-WOOD/WOOD
 DESCRIPTION: WOOD BEARING WALLS W/HARDE BOARD SIDING WOOD ROOF TRUSS FRAMING EFS/BATTEN/ACM PANEL/HARDE BOARD SIDING
 SITE ID: 024-1289
 SITE ADDRESS: 1000 S Main Street SALEM, MO

SHEET NO: **E2.2**
 ELEC. ROOF PLAN

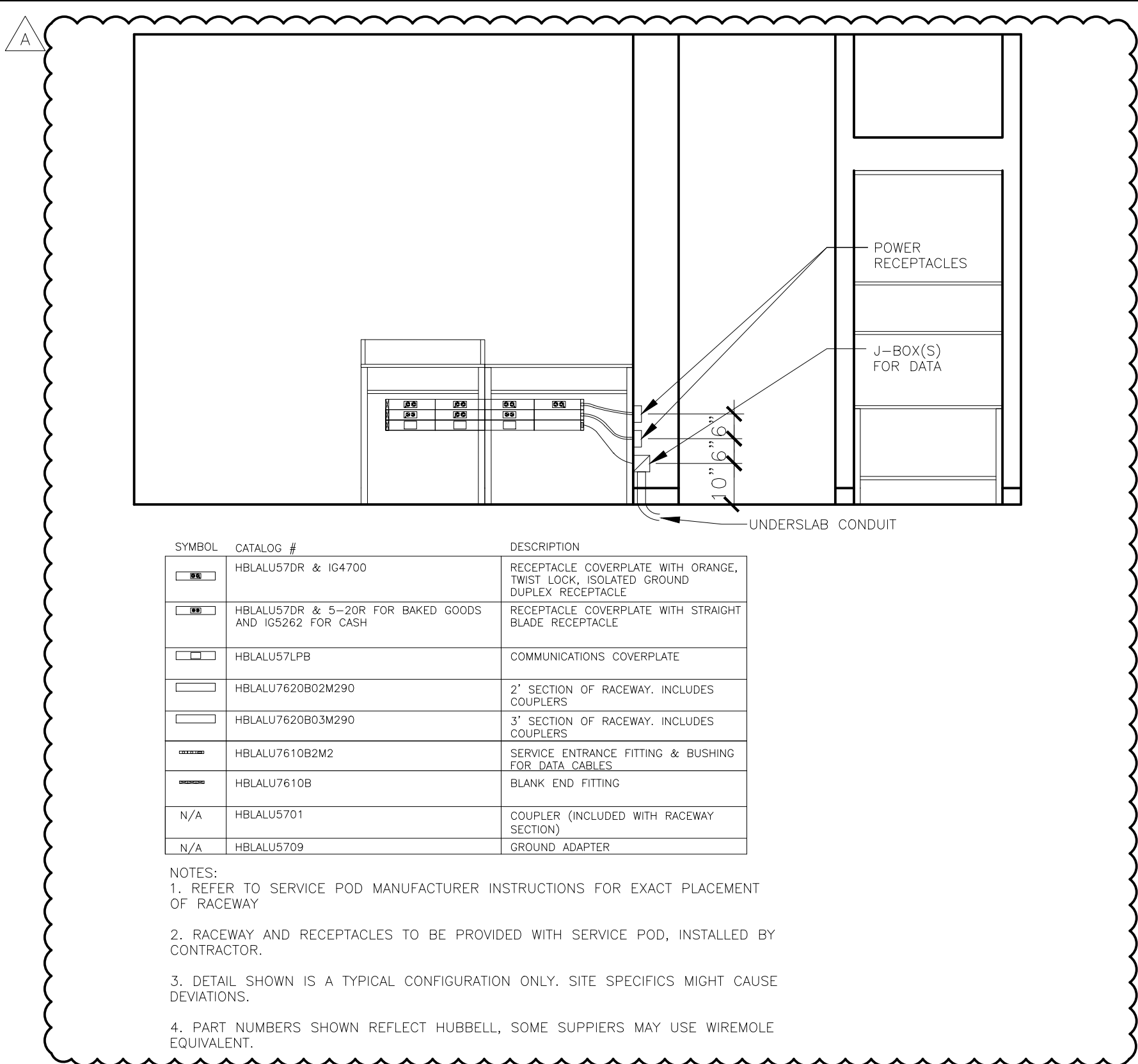
PREPARED BY: **CORE STATES GROUP**
 JOHN DALE FERGUSON
 NUMBER: PE-8000014085
 PROFESSIONAL ENGINEER
 08/25/2023

REV	DATE	DESCRIPTION
A	8/25/23	ESE UPDATE
BB		

Table with columns: TAG #, QTY, DESCRIPTION, VOLT/PH, FLA, BRK SIZE, COND/WIRE, PNL/CCT, RECEPT TYPE, HGT AFF, REQUIREMENTS & REMARKS. Includes items like DIGITAL MERCHANDISER, COFFEE BREWER, FREEZER, and REFRIGERATOR.

Table with columns: TAG #, QTY, DESCRIPTION, VOLT/PH, FLA, BRK SIZE, COND/WIRE, PNL/CCT, RECEPT TYPE, HGT AFF, REQUIREMENTS & REMARKS. Includes items like TECHNOLOGY RACK, POS REGISTER, VIDEO MONITOR, and LABELING SYSTEM.

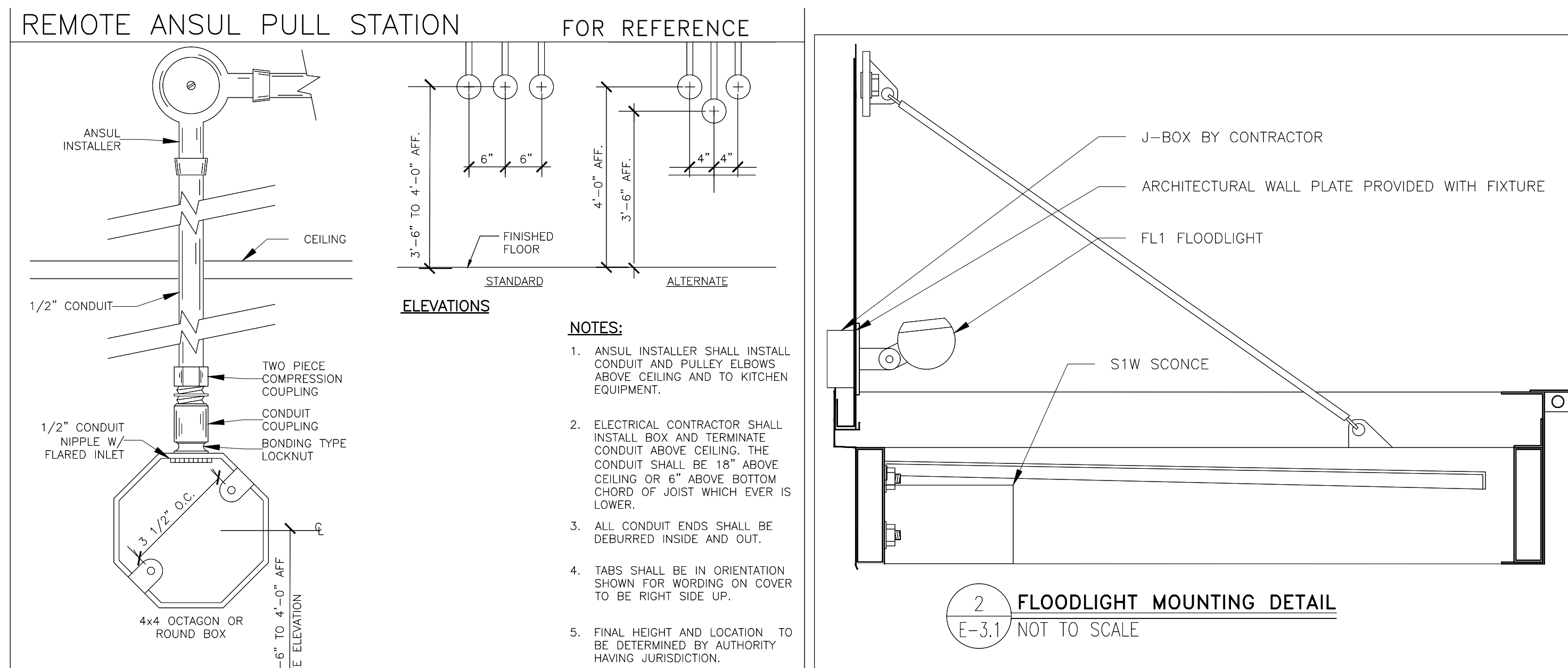
Project information including: TITLE (2022 STANDARD BUILDING - BB20), SHEET NO. (E3.0), DATE (10-21-2022), and a circular seal for CORE STATES ELECTRICAL ENGINEERS.



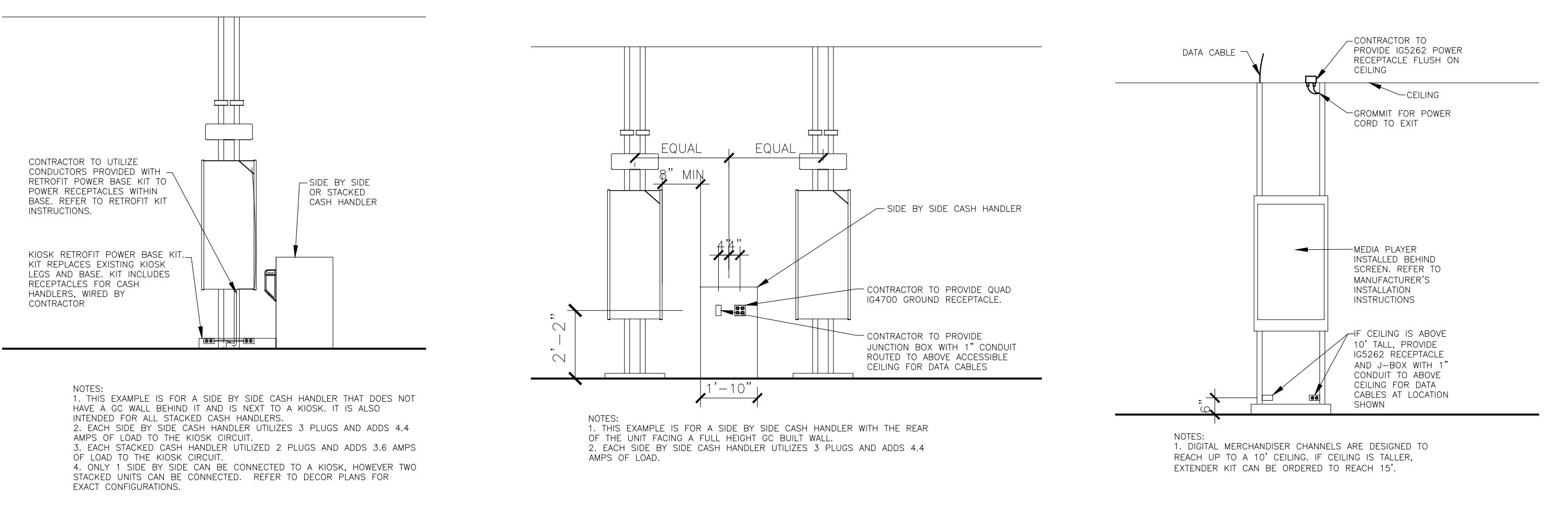
SYMBOL	CATALOG #	DESCRIPTION
[Symbol]	HBLAU57DR & IG4700	RECEPTACLE COVERPLATE WITH ORANGE, TWIST LOCK, SOLATED GROUND DUPLEX RECEPTACLE
[Symbol]	HBLAU57DR & S-20R FOR BAKED GOODS AND IC5262 FOR CASH	RECEPTACLE COVERPLATE WITH STRAIGHT BLADE RECEPTACLE
[Symbol]	HBLAU57LPB	COMMUNICATIONS COVERPLATE
[Symbol]	HBLAU7620B02M290	2' SECTION OF RACEWAY, INCLUDES COUPLERS
[Symbol]	HBLAU7620B03M290	3' SECTION OF RACEWAY, INCLUDES COUPLERS
[Symbol]	HBLAU7610B2M2	SERVICE ENTRANCE FITTING & BUSHING FOR DATA CABLES
[Symbol]	HBLAU7610B	BLANK END FITTING
[Symbol]	HBLAU5701	COUPLER (INCLUDED WITH RACEWAY SECTION)
[Symbol]	HBLAU5709	GROUND ADAPTER

- NOTES:
- REFER TO SERVICE POD MANUFACTURER INSTRUCTIONS FOR EXACT PLACEMENT OF RACEWAY
 - RACEWAY AND RECEPTACLES TO BE PROVIDED WITH SERVICE POD, INSTALLED BY CONTRACTOR.
 - DETAIL SHOWN IS A TYPICAL CONFIGURATION ONLY. SITE SPECIFICS MIGHT CAUSE DEVIATIONS.
 - PART NUMBERS SHOWN REFLECT HUBBELL, SOME SUPPLIERS MAY USE WIREMOLE EQUIVALENT.

1 SERVICE POD RACEWAY DETAIL
E-3.1 NOT TO SCALE



2 FLOODLIGHT MOUNTING DETAIL
E-3.1 NOT TO SCALE



5 TYP. CASH HANDLER POWER DETAIL
E-3.1 NOT TO SCALE

4 CASH HANDLER POWER DETAIL W/REAR TO WALL
E-3.1 NOT TO SCALE

3 FREESTANDING MERC POWER DETAIL
E-3.1 NOT TO SCALE

GENERAL ELECTRICAL NOTES:

INSTALLATION METHODS:

- ALL ELECTRICAL MATERIAL USED ON THIS PROJECT SHALL BE "UL" LISTED AND LABELED.
- ALL DIMENSIONS SHOWN ARE TAKEN FROM FACE OF GYP BOARD/PLYWOOD. THE EC SHALL MAKE NECESSARY DIMENSIONAL ALLOWANCES. ALL DIMENSIONS SHOWN ARE TO CENTER LINE OF OUTLET BOX AND/OR RECEPTACLE UNLESS NOTED OTHERWISE.
- ALL J-BOXES, DCOS, AND OTHER ELECTRICAL DEVICES SHOWN SHALL BE RECESSED INTO A WALL, FLOOR OR CEILING UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL RECEPTACLES (EXCEPT SPECIFIED HUBBELL PIN & SLEEVE TYPES) SHALL BE FURNISHED BY THE EC. THE RECEPTACLES INCLUDING PIN AND SLEEVE TYPE SHALL BE INSTALLED BY THE EC.
- EC SHALL PROVIDE STAINLESS STEEL COVER PLATES ON ALL RECEPTACLES AND J-BOXES. ADDITIONALLY, EC SHALL PROVIDE ORANGE NYLON COVER PLATES MARKED "COMPUTER ONLY" ON ALL ISOLATED GROUND/DEDICATED CIRCUIT RECEPTACLES. PURCHASE PJB80 (ONE DUPLEX) OR PJB200 (TWO DUPLEX) FROM HUBBELL.
- ROUGH-INS FOR OPTIONAL EQUIPMENT ARE SHOWN ON THESE SHEETS. EC SHALL VERIFY WITH McDONALD'S PROJECT MANAGER WHICH OPTIONAL EQUIPMENT IS TO BE INCLUDED AND INSTALL OPTIONAL ROUGH-INS AS REQUIRED. PRICING FOR OPTIONAL ROUGH-INS SHALL BE INCLUDED IN BID AND CALLED OUT AS OPTIONAL.
- EC SHALL COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER, MECHANICAL CONTRACTOR AND GC FOR FINAL LOCATIONS AND CONNECTION REQUIREMENTS OF ALL EQUIPMENT PRIOR TO INSTALLATION OF ANY CONDUIT AND/OR STUB-UP LOCATIONS.
- CEILING MOUNTED ECONOMY OEP BOX IS FURNISHED BY McDONALD'S, AND INSTALLED BY THE GC. CORD AND PLUG SET FURNISHED BY KES AND INSTALLED BY THE EC.
- FOR GRILLS, FRYERS, AND ANSUL SYSTEMS, EC SHALL EXTEND CONDUIT AND CONDUCTORS DOWN CHASE OR WALL TO TERMINAL BLOCK MOUNTED ON EQUIPMENT AND MAKE FINAL CONNECTIONS TO TERMINAL BLOCKS.
- ALL HOLES IN THE FRONT COUNTER FOR THE POS CORDS AND CABLES SHALL BE LOCATED BY OWNER AND DRILLED BY GC.
- ALL ELECTRICAL CONDUCTORS SHALL BE CONNECTED TO RECEPTACLES USING ONLY THE TERMINAL SCREWS. RECEPTACLE BACK WIRE/QUICK CONNECTIONS SHALL NOT BE USED.
- EC SHALL PROVIDE 208V HEAT TRACE ON THE FREEZER EVAPORATOR CONDENSATE DRAIN LINE. HEAT TRACE SHALL OPERATE CONTINUOUSLY. EC SHALL WIRE HEAT TRACE TO FREEZER EVAPORATOR POWER SUPPLY. A SEPARATE CIRCUIT FOR HEAT TRACE IS NOT REQUIRED. VERIFY HEAT TRACE REQUIREMENTS WITH EVAPORATOR MANUFACTURER.
- POWER AND CONTROL CORDS ARE FURNISHED WITH KITCHEN APPLIANCES. THE EC SHALL CONNECT CORD SETS TO APPLIANCES AS REQUIRED.
- GC SHALL NOT INSTALL CEILING TILE IN AREAS OF THE BEVERAGE BAR REFRIGERATION LINES AND EQUIPMENT PENETRATION LOCATIONS UNLESS THE LINES HAVE BEEN INSTALLED. THE CEILING TILE INSTALLER SHALL RETURN AND INSTALL THE TILES AFTER THE REFRIGERATION LINES HAVE BEEN INSTALLED AND TESTED.

UTILITIES:

- INCOMING SERVICE SHALL BE 208Y/120V, 3 PHASE, 4 WIRE. ANY DEVIATIONS TO THIS SERVICE TYPE SHALL NOT BE PERMITTED UNLESS APPROVED IN WRITING BY McDONALD'S.
- THE EC SHALL ARRANGE WITH THE ELECTRIC, TELEPHONE, AND OTHER UTILITY COMPANIES FOR INCOMING SERVICE REQUIREMENTS AND SHALL INCLUDE ALL COSTS IN BASE BID.
- THE EC SHALL VERIFY EXACT METHODS AND REQUIREMENTS FOR ELECTRICAL SERVICE WITH LOCAL UTILITY COMPANY. CURRENT TRANSFORMERS SHALL BE INSTALLED OUTSIDE RESTAURANT. LOCATE INSIDE ONLY IF REQUIRED BY UTILITY COMPANY OR LOCAL AUTHORITIES.
- PROVIDE CONCRETE PAD IF TRANSFORMER IS LOCATED ON GRADE AND PROVIDE SECONDARY SERVICE FEEDER AND CONDUITS TO PANEL MDP AS PER LOCAL UTILITY REQUIREMENTS.
- THE EC/GC/ACM SHALL OBTAIN AVAILABLE SHORT CIRCUIT CURRENT FROM THE LOCAL UTILITY COMPANY. THE EC/GC/ACM SHALL ADVISE IN WRITING (FAX SUPPLIER THE UTILITY LETTER) THE AVAILABLE AMOUNT OF FAULT CURRENT. THE PANELBOARD SUPPLIER SHALL BE RESPONSIBLE TO VERIFY THAT THE ELECTRICAL EQUIPMENT SHIPPED HAS APPROPRIATE ELECTRICAL RATINGS WHICH ARE EQUAL TO OR GREATER THAN THE AVAILABLE AMOUNT OF FAULT CURRENT AT THE SITE.
- EC AND ACM OR OWNER/OPERATOR AND ACM SHALL COORDINATE WITH LOCAL PHONE COMPANY TO PROVIDE A 10 PAIR (OR MORE) COPPER TELEPHONE CABLE FROM THE TELEPHONE UTILITY EASEMENT TO THE RESTAURANT TELEPHONE DEMARCATION POINT. IF THE TELEPHONE PANEL/BOX IS LOCATED INSIDE THE RESTAURANT, EC SHALL PROVIDE (2) EMPTY 3/4" CONDUITS FROM THE TELEPHONE PANEL/BOX UP TO ABOVE THE CEILING FOR FUTURE TELEPHONE CABLE INSTALLATION. ADDITIONALLY, THE EC SHALL PROVIDE AN EMPTY 3/4" CONDUIT FROM THE TELEPHONE PANEL/BOX TO THE LOCATION OF THE FUTURE INTERNET SERVER (VERIFY LOCATION WITH PM). EC SHALL CONNECT, INSTALL AND INCORPORATE ALL OTHER REQUIREMENTS NECESSARY FOR COMPLETE AND OPERATIONAL TELEPHONE SYSTEM(S) FOR THIS SITE. THE REMAINING UNUSED TELEPHONE CONDUCTOR PAIRS SHALL BE CAPPED AND LEFT IN PLACE FOR FUTURE USE. THE TELEPHONE PANEL/BOX SHALL BE GROUNDED AS SHOWN IN THE "BUILDING ELECTRICAL GROUNDING DETAIL."
- EC SHALL PROVIDE A 4" SCHEDULE 40/80 PVC CONDUIT THAT IS SUITABLE FOR DIRECT BURIAL FROM BUILDING TO UTILITY EASEMENT/ROW IN UTILITY CABLING/CONDUIT TRENCH PROVIDED BY GC. CONDUIT SHALL RUN FROM INCOMING TELCOM LOCATION AT BUILDING TO TELCOM PEDESTAL LOCATION IN UTILITY EASEMENT/ROW. VERIFY EXACT LOCATIONS IN FIELD WITH AREA CONSTRUCTION MANAGER AND TELCOM UTILITY PROVIDER PRIOR TO INSTALLATION.

INSTALLATION NOTES:

- IF TELCOM CONDUIT IS TERMINATED WITHIN BUILDING, PVC SHALL TRANSITION TO HWG/RMC TYPE CONDUIT PRIOR TO RISING ABOVE FINISHED SLAB.
- PROVIDE THERMOPLASTIC BUSHINGS AT BOTH ENDS OF CONDUIT FOR CABLE PROTECTION.
- IF 90 DEGREE BENDS ARE REQUIRED, CONTRACTOR SHALL PROVIDE WIDE SWEEPING BENDS TO PREVENT BENDING/DAMAGE TO CABLE.
- ALL COMMUNICATIONS CABLING SHALL BE PULLED VIA THIS CONDUIT.
- INSTALL A MINIMUM OF 6 PULL WIRES IN CONDUIT TO ALLOW FOR THE INSTALLATION OF FUTURE CABLING. USE NON-DEGRADING POLYPROPYLENE OR MONOFILAMENT PLASTIC LINE OR #12 AWG SOLID COPPER CONDUCTORS WITH NOT LESS THAN 200 LBF TENSILE STRENGTH. PROVIDE AT LEAST 12 INCHES OF SLACK AT EACH END OF EACH PULL WIRE.
- AFTER INSTALLATION OF COMMUNICATIONS CABLING AND PULLSTRINGS/WIRES, CONTRACTOR SHALL SEAL BOTH ENDS OF CONDUIT TO PREVENT INTRUSION FROM WEATHER, RODENTS, DEBRIS, ETC. SEAL SHALL BE OF TYPE TO ALLOW FOR REMOVAL FOR INSTALLATION OF FUTURE CABLING

CONDUIT AND WIRE:

- THE FOLLOWING WIRING METHODS SHALL NOT BE USED: NON-METALLIC SHEATHED CABLE (ROMEX, NM, NMC, & NMS), ARMORED CABLE TYPE AC (BX), ELECTRICAL NON-METALLIC TUBING, TYPE ENT (SMURF-TUBE).
- CONDUIT RUNS MAY BE COMBINED EXCEPT WHERE ISOLATED GROUNDS ARE USED. IS CIRCUITS SHALL BE RUN IN SEPARATE CONDUITS. ALL HOME RUNS SHALL BE SIZED BASED ON DERATED CONDUCTOR AMPACITIES AND INCREASE CONDUIT AND WIRE SIZE AS REQUIRED BY NEC SECTION 310 REQUIREMENTS.
- CONDUIT SHALL HAVE A MAXIMUM OF 4 BENDS WITHOUT A JUNCTION BOX TO PREVENT DAMAGE TO CABLE DURING PULLING. THE EC SHALL PIGTAIL #12 PULL WIRE AT EACH END FOR INSTALLER TO PULL CABLE. ALL LOW VOLTAGE CONDUIT STUB-UPS SHALL BE PROVIDED IN C-CHANNEL TRELLISES.
- MINIMUM WIRE SIZE SHALL BE #12 AWG COPPER UNLESS NOTED OTHERWISE. MINIMUM CONDUIT SIZE SHALL BE 1/2" UNLESS NOTED OTHERWISE. WIRES INSTALLED UNDERGROUND OR OUTDOORS SHALL BE THW.
- CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID COPPER. CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER. ALUMINUM CONDUCTORS SHALL NOT BE UTILIZED FOR FEEDER OR BRANCH CIRCUIT DISTRIBUTION.
- RACEWAYS SHALL BE ANY OF THE FOLLOWING MATERIALS, INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES:

OUTDOORS: (FOR SPECIFIC APPLICATIONS AND APPROPRIATE FITTINGS, SEE TABLE W6)

- EXPOSED: RMC, IMC,
- CONCEALED: RMC, IMC,
- BELOW GRADE, SINGLE RUN: RNC, RMC,
- BELOW GRADE, GROUPED: RNC, RMC,
- CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): LFMC,
- BOXES AND ENCLOSURES: NEMA 250, TYPE 3R OR 4.

INDOORS: (FOR SPECIFIC APPLICATIONS AND APPROPRIATE FITTINGS, SEE TABLE W6)

- EXPOSED: EMT, IMC,
- CONCEALED: EMT, IMC, (CONTINUED ON TOP)

- CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): FM; EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.
- DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT.
- BOXES AND ENCLOSURES: NEMA 250, TYPE 1. EXCEPT AS FOLLOWS: A. DAMP, WET OR KITCHEN LOCATIONS: NEMA 250, TYPE 4, STAINLESS STEEL.

TABLE W6:

LOCATION	208V.	480V.	LOW ENERGY*
EXPOSED			
INDOORS	< 1" EMT COMPRESS. FTGS >1.25" IMC THREADED FTGS	IMC THREADED FTGS	EMT COMP. FTGS
OUTDOORS	RMC OR IMC THREADED FTGS	RMC OR IMC THREADED FTGS	RMC OR IMC THREADED FTGS
CONCEALED			
WALLS	<2" EMT SET SCREW FTGS >2.5" IMC THREADED FTGS	<2" EMT SET SCREW FTGS >2.5" IMC THREADED FTGS	EMT 1/2" - 2" SET SCREW FTGS 2.5" - 4" COMP. FTGS
AIR HANDLING CEILING/SPACE	<2" EMT COMP. FTGS >2.5" IMC THREADED FTGS	2" EMT COMP. FTGS < >2.5" IMC THREADED FTGS	EMT COMP. FTGS
NON AIR HANDLING CEILING/SPACE	<2" EMT SET SCREW FTGS >2.5" IMC THREADED FTGS	<2" EMT COMP. FTGS >2.5" IMC THREADED FTGS	EMT 1/2" - 2" SET SCREW FTGS 2.5" - 4" COMP. FTGS
BELOW GRADE			
INTERIOR	IMC THREADED FTGS OR SCHEDULE 40 OR 80 PVC	IMC THREADED FTGS	IMC THREADED FTGS SCHEDULE 40 OR 80 PVC
EXTERIOR	SCHEDULE 40 OR 80 PVC OR RMC THREADED FTGS	SCHEDULE 40 OR 80 PVC OR RMC THREADED FTGS	SCHEDULE 40 OR 80 PVC OR RMC THREADED FTGS

- ALL CONDUITS PENETRATING THE FREEZER/Cooler BOX SHALL BE SEALED IN COMPLIANCE NEC SECTION 300 AND THE FREEZER/Cooler BOX MANUFACTURERS REQUIREMENTS.
- PROVIDE THREE (3) 3/4" EMPTY CONDUITS FROM PANEL LP-1 UP TO THE CEILING SPACE AND CAP FOR FUTURE USE.

GROUNDING:

- ALL BRANCH AND FEEDER CIRCUITS SHALL BE GROUNDED BY TWO METHODS. THE FIRST METHOD SHALL INCLUDE AN INSULATED COPPER EQUIPMENT GROUNDING CONDUCTOR CONTAINED WITHIN THE SAME CONDUIT AS THE PHASE CIRCUIT CONDUCTORS AND SIZED PER NEC SECTION 250 REQUIREMENTS. THIS INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL HAVE ONE END PROPERLY TERMINATED AT THE EQUIPMENT GROUND BUS IN THE CORRESPONDING CIRCUIT BREAKER PANEL, AND THE OTHER END TERMINATED AT THE GROUNDING CONTACT OF A GROUNDING RECEPTACLE AND TO THE JUNCTION BOX OR TO AN EQUIPMENT CABINET, AS APPLICABLE. THE SECOND METHOD PROVIDES EQUIPMENT GROUNDING VIA METALLIC CONDUIT THAT IS CONNECTED AND TERMINATED IN FITTINGS LISTED FOR GROUNDING PER NEC SECTION 250 REQUIREMENTS. BOTH GROUNDING METHODS ARE REQUIRED IN A McDONALD'S RESTAURANT. ISOLATED GROUND SHALL BE INSTALLED WHERE INDICATED ON PLAN AND AS SHOWN IN POS ISOLATED GROUND/DEDICATED CIRCUIT DETAIL ON SHEET E4.2.
- THE BUILDING GROUNDING SYSTEM SHALL COMPLY WITH NEC ARTICLE 250, McDONALD'S SPECIFICATIONS, AND SHEET E4.2. CAUTION: IT IS A SAFETY HAZARD AND AN NEC VIOLATION TO HAVE ANY NEUTRAL TO GROUND CONNECTIONS BEYOND THE MAIN ELECTRICAL DISCONNECT MEANS. McDONALD'S GROUNDING STANDARDS PURPOSELY EXCEED THOSE GIVEN BY THE NEC. THE EC SHALL PROVIDE A BUILDING GROUNDING SYSTEM MEETING NEC SECTION 250 REQUIREMENTS AS WELL AS McDONALD'S STANDARDS.
- EC SHALL REFER TO "POS ISOLATED GROUND/DEDICATED CIRCUIT DETAIL, SHEET E4.2, FOR REQUIRED WIRING REQUIREMENTS OF COMPUTER PANEL CP.
- METAL RACEWAYS CONTAINING A GROUNDING ELECTRODE CONDUCTOR SHALL BE BONDED AT BOTH ENDS AS REQUIRED BY NEC SECTION 250 REQUIREMENTS.

TEMPERATURE CONTROLS:

- REMOTE TEMPERATURE SENSORS; EC SHALL PROVIDE 1/2" CONDUIT FROM JUNCTION BOX ABOVE CEILING DOWN TO SENSOR MOUNTED AT 4'-0" TO 4'-6" AFF.
- SEE DETAIL ON SHEET M3.0, FOR SENSOR MOUNTING DETAIL. LOCATION OF WALL MOUNTED TEMPERATURE SENSORS ARE SHOWN ON SHEET M1.2 AND E2.0.
- WHEN WIRING FOR PROGRAMMABLE THERMOSTATS AND REMOTE SENSORS IS NOT IN A CONDUIT, THE WIRING SHALL BE RUN TO THE UNDERSIDE OF THE ROOF DECK. NONE OF THE WIRING SHALL BE ROUTED OVER FLUORESCENT BALLASTS, POWER BOXES OR IN A CONDUIT WITH LINE VOLTAGE WIRING AS ELECTRICAL INTERFERENCE (NOISE) WILL CAUSE ERRATIC CONTROL OPERATION. ALL THERMOSTATS SHALL BE MOUNTED 4'-0" AFF.

FLAT PANEL TELEVISIONS:

- EC SHALL PROVIDE A DUPLEX RECEPTACLE AND A LOW VOLTAGE BROADBAND CONNECTION FOR THE INSTALLATION OF FLAT PANEL TELEVISIONS. COORDINATE EXACT LOCATIONS WITH DECOR COMPANY. FOR BROADBAND CONNECTION, EC SHALL PROVIDE A 4" X 4" BOX WITH A 3/4" CONDUIT STUB-UP WITH A BUSHING INTO ACCESSIBLE CEILING SPACE.

ELECTRICAL PANELS:

- THE EC SHALL BE RESPONSIBLE FOR BALANCING THE LOADS ON ALL PANELS.
- THE EC SHALL PROVIDE ELECTRICAL SERVICE TO THE EQUIPMENT MOUNTED BREAKER PANEL. SEE ELECTRICAL ROUGH-IN PLAN AND SCHEDULE FOR ALL REQUIREMENTS.
- THE EC SHALL BE RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKERS. EACH PANEL SHALL BE PROVIDED WITH AN ACCURATE TYPEWRITTEN CIRCUIT DIRECTORY AT THE CONCLUSION OF THE PROJECT AND PRIOR TO RESTAURANT OPENING.

SECURITY AND DRIVE-THRU CAMERAS:

- EC TO PROVIDE ELECTRICAL POWER AND COMMUNICATION CONDUITS FOR BUILDING MOUNTED SECURITY AND DRIVE THRU CAMERAS. COORDINATE FINAL LOCATIONS WITH SECURITY AND DRIVE THRU CAMERA INSTALLERS.

LIGHTING:

- PROVIDE A WEATHERPROOF JUNCTION BOX IN PARAPET FOR FASCIA SIGN. FINAL CONNECTION BY OTHERS.
- COORDINATE THE LOCATION OF JUNCTION BOX (IN THE WALL) WITH THE OPENING IN TRELLIS (FOR THE LIGHT FIXTURE WIRES). THE LOCATION OF THE JUNCTION BOX AND THE OPENING IN THE TRELLIS SHALL BE ALIGNED FOR THE LIGHT FIXTURE TO BE INSTALLED PROPERLY. COORDINATE INSTALLATION OF JUNCTION BOX AND ANY NECESSARY OPENINGS IN TRELLIS WITH GC AND TRELLIS/CANOPY MANUFACTURER. SEE LIGHT FIXTURE INSTALLATION INSTRUCTIONS FOR REQUIREMENTS REGARDING MOUNTING BRACKETS FOR USE IN C-CHANNEL TRELLISES.
- EC SHALL FIELD VERIFY THAT LIGHT FIXTURES DO NOT OBSTRUCT OR CONFLICT WITH THE WORK OF OTHER TRADES. IF A DISCREPANCY IS FOUND, THE EC SHALL IMMEDIATELY NOTIFY THE GC BEFORE THE INSTALLATION OF SUCH FIXTURE(S). EC SHALL COORDINATE LOCATIONS OF ALL LIGHT FIXTURES IN DINING AREA WITH FINAL SEATING AND DECOR PLANS.
- IF PC-POS CASH REGISTER SYSTEM IS INSTALLED, EC SHALL RELOCATE FIXTURES ABOVE FRONT COUNTER TO AVOID GLARE ON THE CASH REGISTER SCREENS. EC SHALL INSTALL CABLE WHIP TO FIXTURES SO THAT FIXTURE MAY BE RELOCATED FOUR FEET WITHOUT DISCONNECTING CABLE WHIP.
- EC SHALL COORDINATE LOCATION OF ALL EXTERIOR LIGHTS TO AVOID INTERFERENCE WITH ANY CORBELS, TRUSSES, BEAMS OR OTHER SPECIAL EXTERIOR TREATMENTS. INSTALL LIGHT FIXTURES WITH CORRECT ORIENTATION PER MANUFACTURER'S INSTRUCTIONS
- THE USE OF INTERLOCK TYPE "MC" CABLE IN LENGTHS OF 6 FEET OR LESS (WHERE PERMITTED BY LOCAL CODES) SHALL BE ALLOWED FOR WIRING TO INTERIOR LIGHTING FIXTURES. "ROMEX" OR "BX" SHALL NOT BE USED.
- EC SHALL VERIFY THAT NOT MORE THAN 3% VOLTAGE DROP EXISTS FROM THE LIGHTING PANEL TO ANY EXTERIOR LIGHTING FIXTURE OR SIGNAGE BALLAST.
- WHERE McDONALD'S RESTAURANT HAS A PLAYPLACE, THE EC SHALL COORDINATE EXACT LOCATION OF PLAYPLACE LIGHTING WITH PLAYPLACE TOY VENDOR FOR MAXIMUM ILLUMINATION AND SAFETY PER THE FINAL LOCATION OF THE PLAYPLACE TOY. LIGHTING FIXTURES SHALL NOT BE MOUNTED TO THE TOY OR ANY PART OF THE TOY STRUCTURE.
- EC SHALL VERIFY ALL TAP SETTINGS FOR H.I.D. LIGHTING FIXTURES AND MAKE ANY NECESSARY CORRECTIONS PRIOR TO INSTALLATION.

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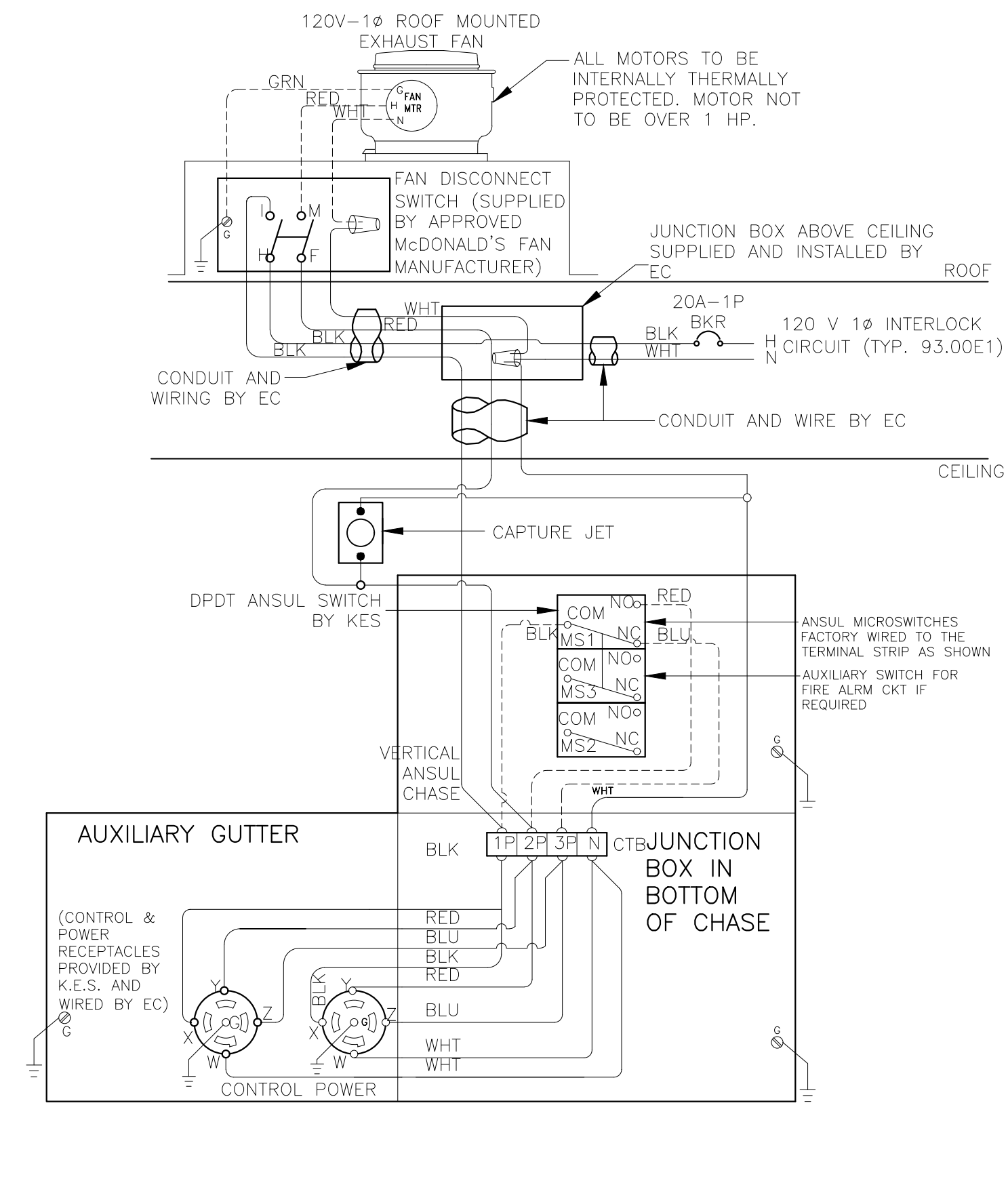
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SEQUENCE OF OPERATION:

1. TURNING "ON" ANY PIECE OF COOKING EQUIPMENT UNDER A HOOD WILL TURN ON THE EXHAUST FAN AND ASSOCIATED RTU PROVIDING MAKEUP AIR FOR THAT HOOD.
2. TURNING "OFF" THE LAST PIECE OF COOKING EQUIPMENT UNDER A HOOD WILL TURN OFF THE EXHAUST FAN FOR THAT HOOD.
3. IF THE ANSUL SYSTEM SHOULD DISCHARGE WHILE THE COOKING EQUIPMENT AND EXHAUST FAN ARE OPERATING, THE COOKING EQUIPMENT WILL BE SHUT OFF, BUT THE EXHAUST FAN WILL CONTINUE TO RUN AND WILL FORCE THE ROOFTOP UNITS INTO A "SCHEDULED" MODE.
4. THE ANSUL SYSTEM MUST BE RECHARGED AND MANUALLY RESET BEFORE THE COOKING EQUIPMENT WILL AGAIN BE ABLE TO OPERATE.
5. THE ON/OFF SWITCH ON THE EXHAUST FAN IS NORMALLY KEPT IN THE "ON" POSITION. IF IT IS TURNED OFF FOR SERVICE, THE COOKING EQUIPMENT WILL TURN OFF AND NOT BE ABLE TO OPERATE UNTIL THE EXHAUST FAN ON/OFF SWITCH IS AGAIN TURNED ON.

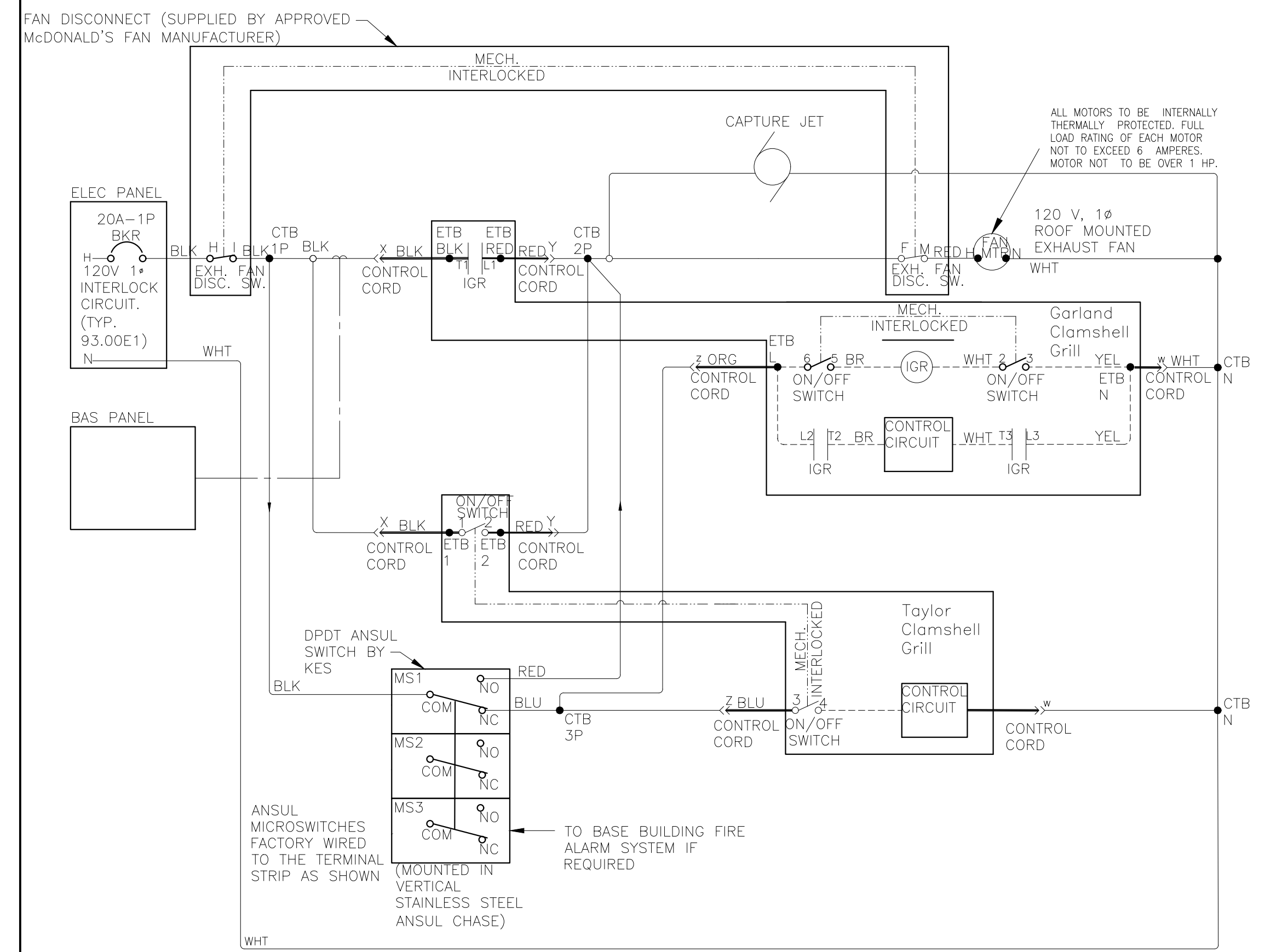
INTERLOCK DIAGRAM LEGEND

- TERMINAL BLOCK IN CHASE
 - CTB - CHASE TERMINAL BLOCK, PROVIDED AND INSTALLED BY KITCHEN EQUIPMENT SUPPLIER
 - ETB - EQUIPMENT TERMINAL BLOCK
 - EFGR - EXHAUST FAN CONTROL RELAY, PROVIDED BY CONTRACTOR.
 - IGR - INTERNAL GRILL RELAY PROVIDED WITHIN GARLAND GRILLS
 - MS - ANSUL MICROSWITCH PROVIDED BY KITCHEN EQUIPMENT SUPPLIER
- >> CONTROL CORD PLUG & RECEPTACLE
- FIELD WIRING
 - CONTROL CORD/INTERNAL WIRING
 - FACTORY WIRING
 - EQUIPMENT OR ENCLOSURE



2 INTERLOCK WIRING DIAGRAM FOR EXHAUST FAN AND COOKING EQUIPMENT FOR REFERENCE ONLY

REVISED: 6/18



3 INTERLOCK LADDER DIAGRAM FOR REFERENCE ONLY

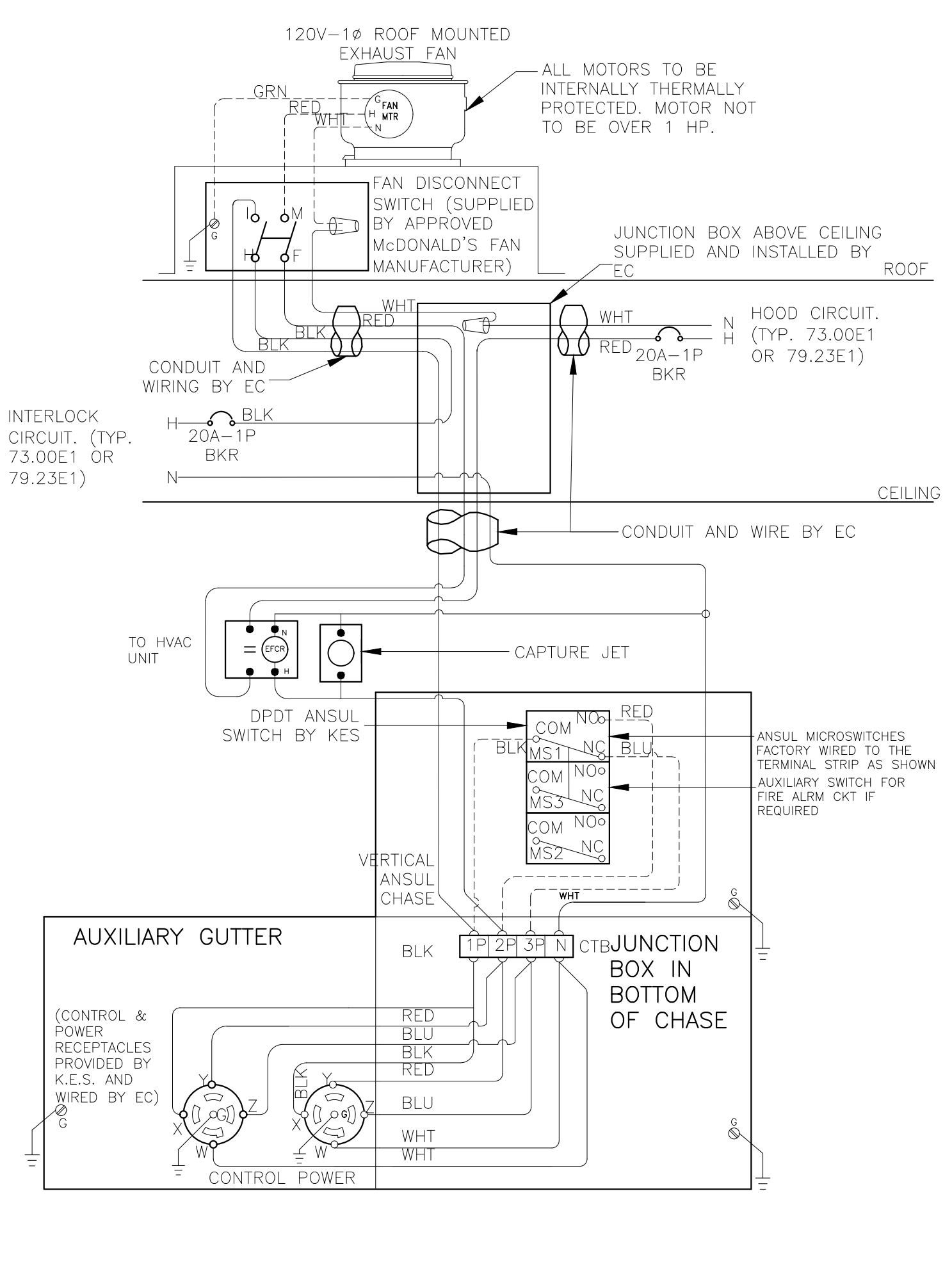
REVISED: 6/18

COOKING EQUIPMENT EXHAUST FAN	MAKE UP PROVIDED BY
EF/1	RTU-3
EF/2	RTU-1
EF/3	RTU-2

NOTE
RTU # ASSOCIATED WITH EACH EXHAUST FAN BASED ON PROTOTYPICAL VALUES ONLY. VERIFY THAT EXHAUST FAN ACTIVATES THE CORRESPONDING RTU TO PROVIDE AN ADEQUATE AMOUNT OF MAKEUP AIR.

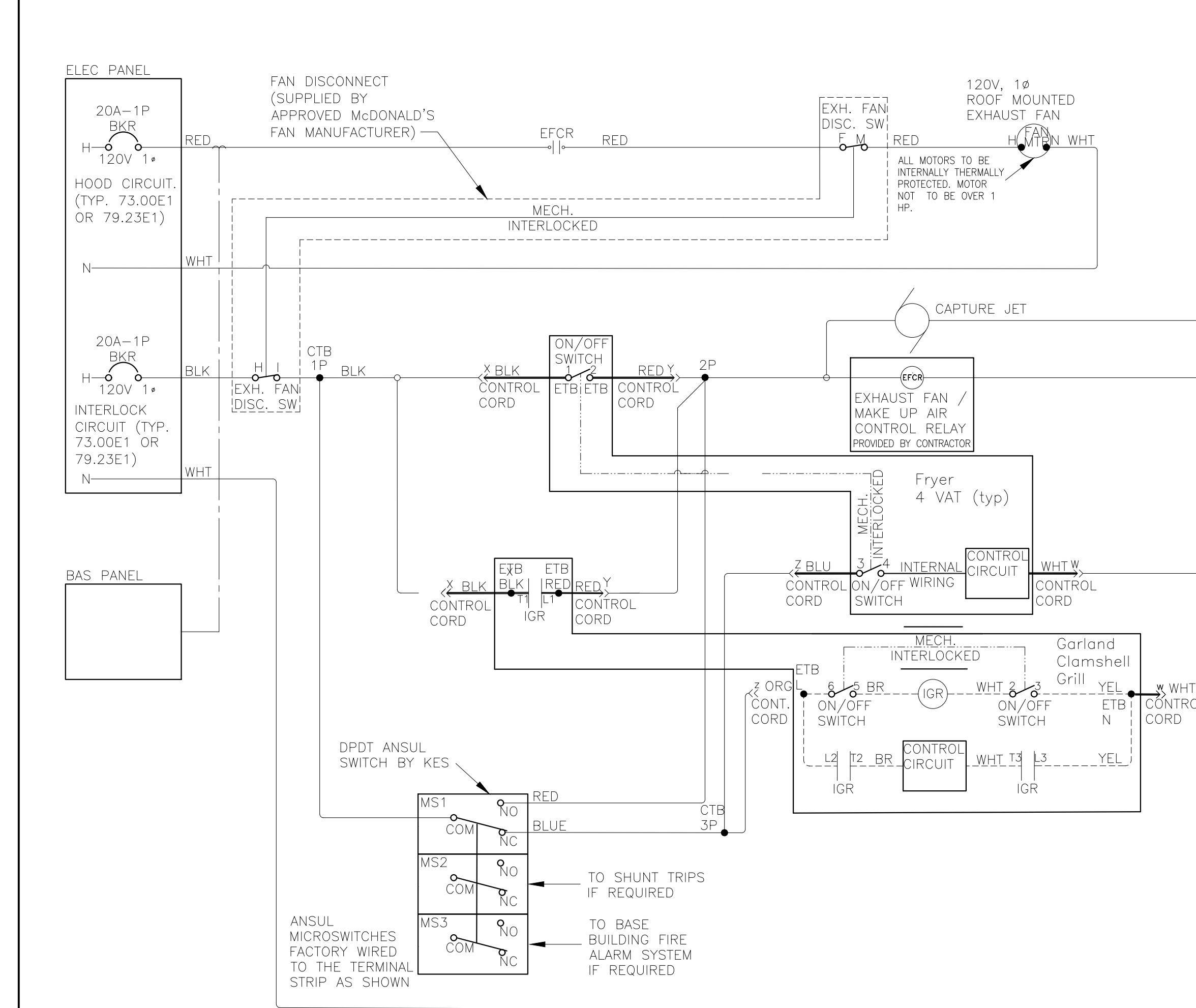
1 TYPICAL MAKEUP AIR RTU EXHAUST FAN SCHEDULE FOR REFERENCE ONLY

REVISED: 6/18



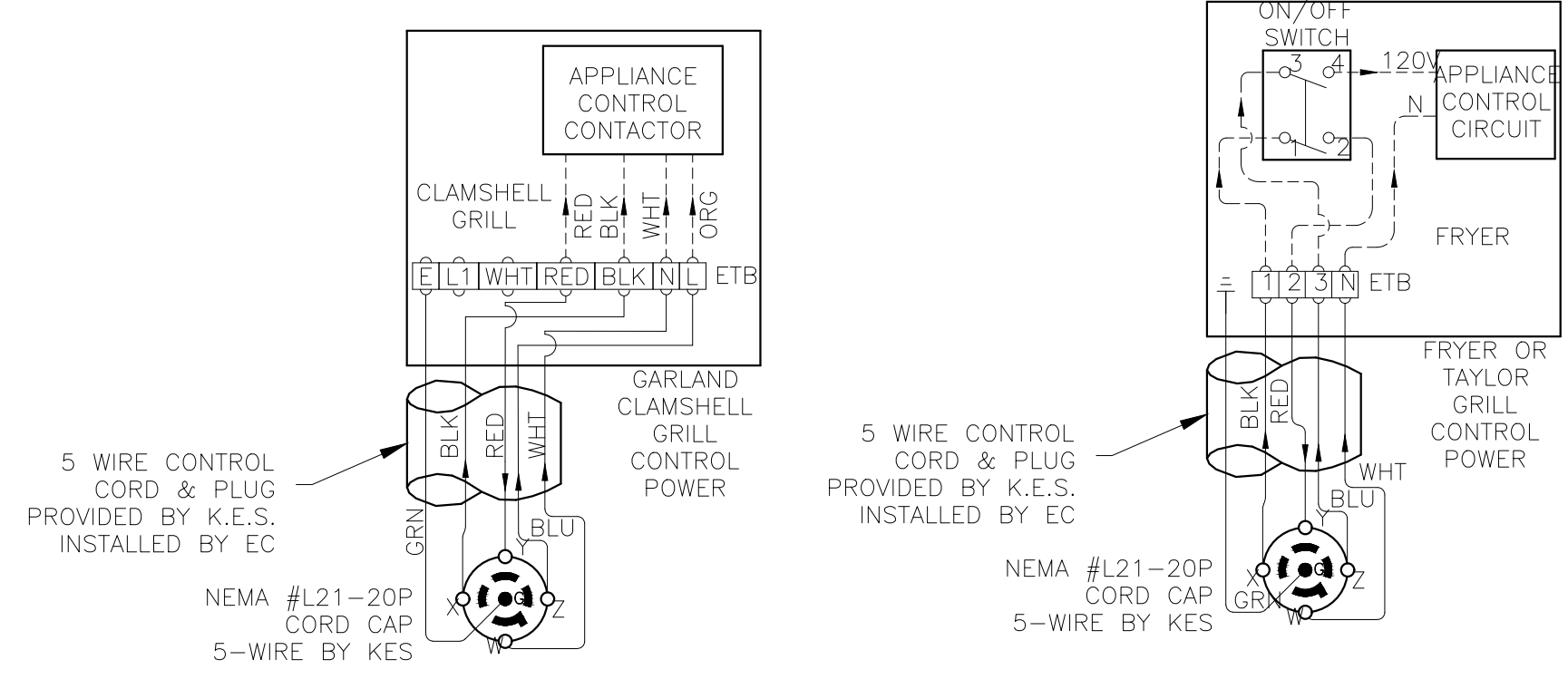
5 INTERLOCK WIRING DIAGRAM FOR EXHAUST FAN AND COOKING EQUIPMENT FOR REFERENCE ONLY

REVISED: 6/18



6 INTERLOCK LADDER DIAGRAM FOR REFERENCE ONLY

REVISED: 6/18



4 CONTROL CORD CONNECTION FOR REFERENCE ONLY

REVISED: 6/18

PREPARED BY: CORE STATES GROUP

DATE: 08/25/2022

PROFESSIONAL ENGINEER

NUMBER: PE-800014085

STATE OF MISSISSIPPI

JOHN DALE FERGUSON

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PREPARED FOR: McDonald's USA, LLC

DRAWN BY: TFF

STD ISSUE DATE: 2022_08

REVIEWED BY: R.K.

DATE ISSUED: 10-21-2022

TITLE: 2022 STANDARD BUILDING - BBZ0

DESCRIPTION: WOOD BEARING WALLS W/HARDBOARD SIDING WOOD ROOF TRUSS FRAMING EFS/BATTEN/ACM PANEL/HARDBOARD SIDING

SHEET NO: 24-1289.00.0

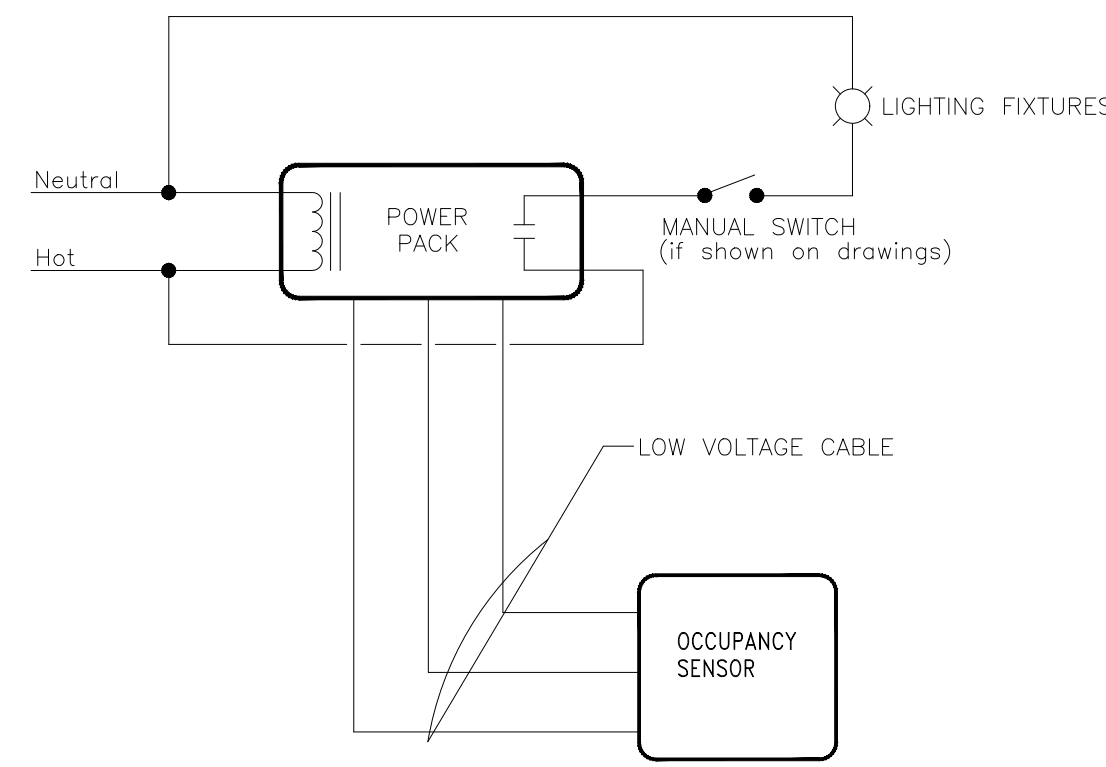
E3.2

INTERLOCK DIAGRAMS

SALEM, MO

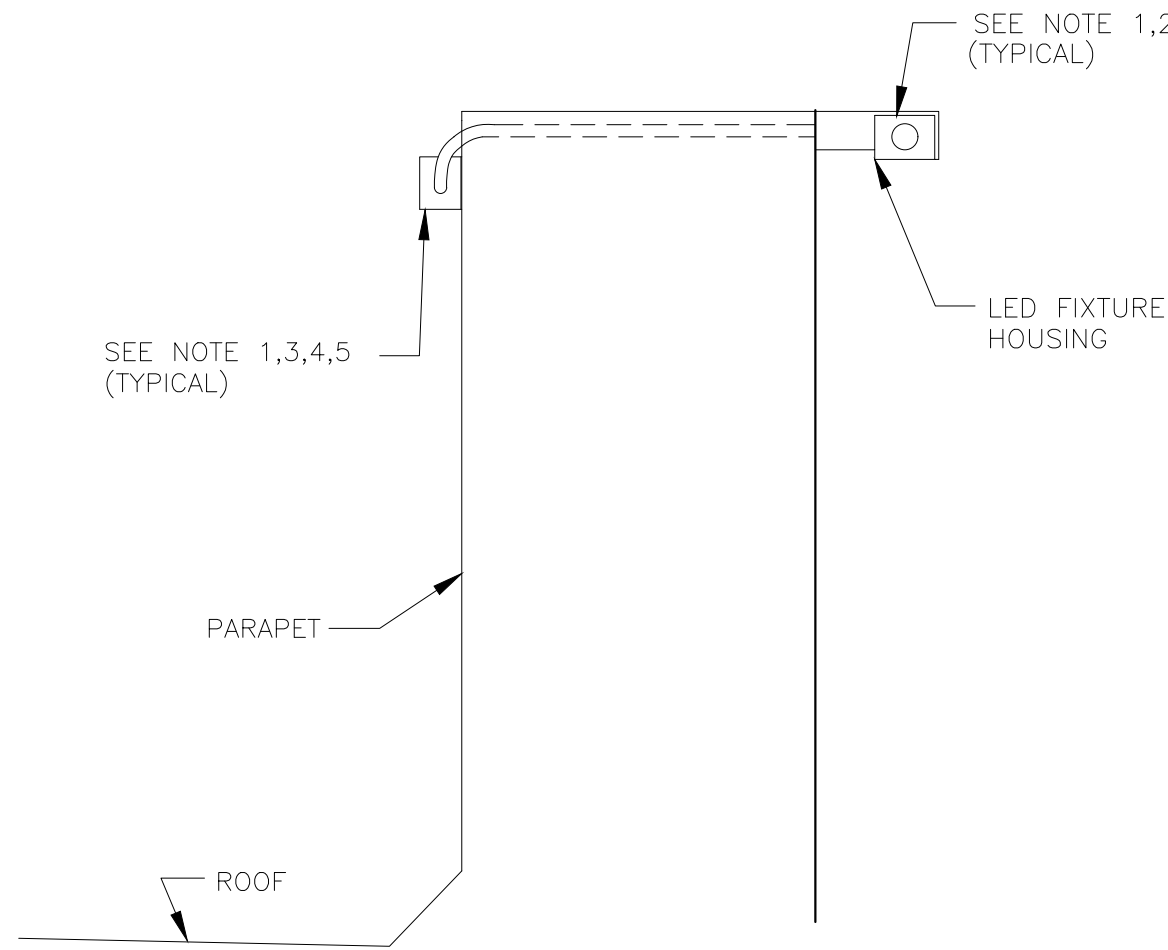
1000 S Main Street

024-1289



NOTES:
1. REFER TO LIGHTING PLAN FOR OCCUPANCY SENSOR LOCATIONS AND QUANTITIES.

1 OCCUPANCY SENSOR CONTROL DETAIL
E-4.0 NOT TO SCALE



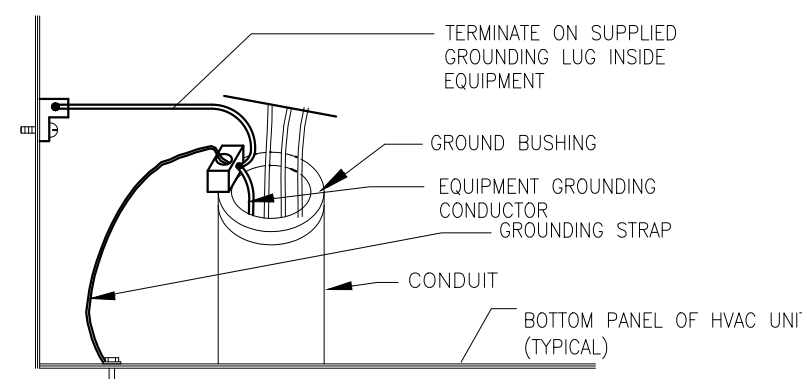
3 BRAND WALL LIGHTING DETAIL
E-4.0 NOT TO SCALE

GENERAL NOTES

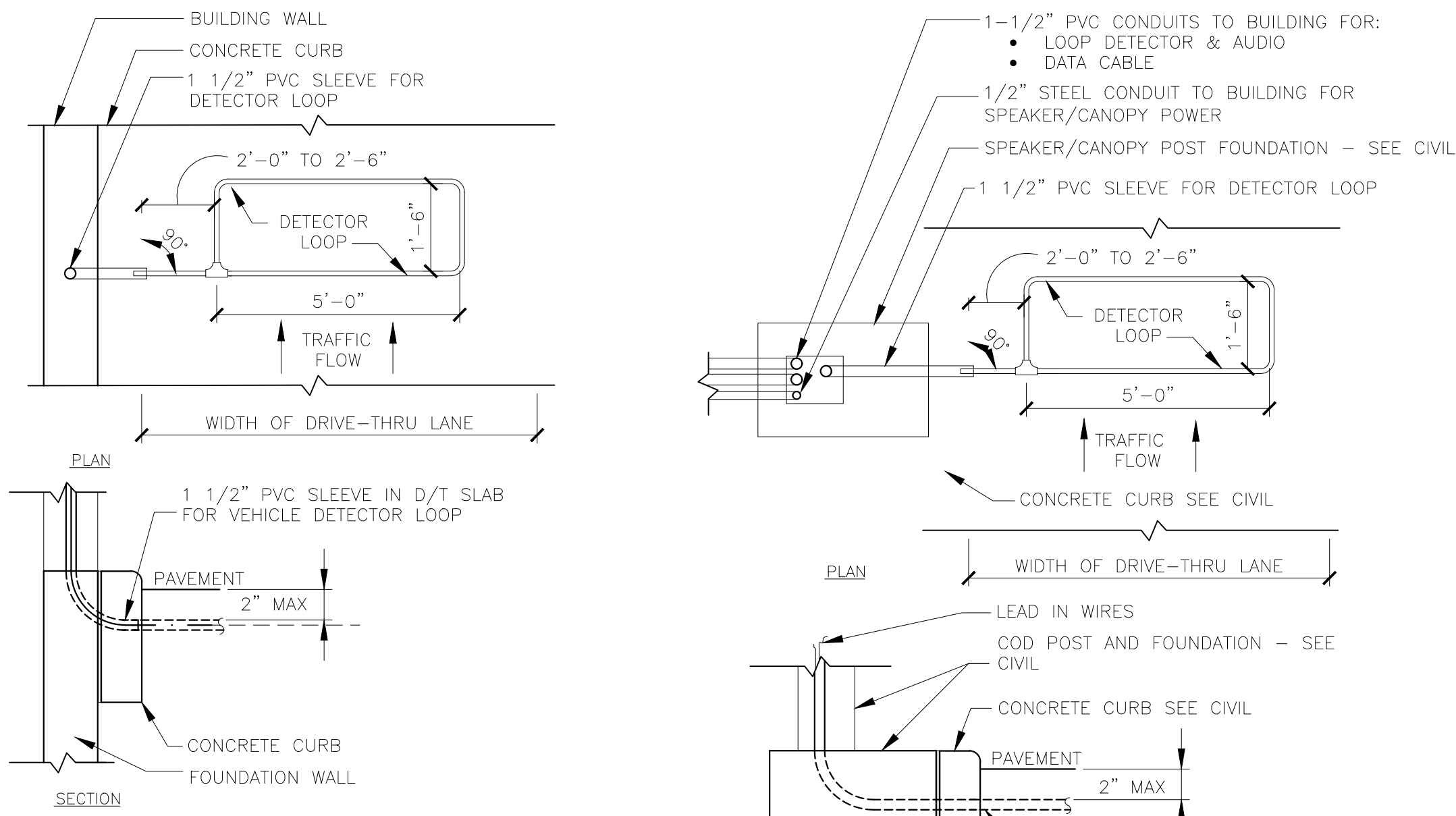
1. PLACE LED FIXTURE AT DESIRED LOCATION AND INSTALL FIXTURE FROM LEFT TO RIGHT WHEN FACING ARCADE AND ATTACH POWER SUPPLY AND MOUNTING BRACKET AS RECOMMENDED BY MANUFACTURER.
2. EC SHALL CONNECT NEW FIXTURES TO THE NEXT AVAILABLE SPARE 120V CIRCUIT AND MAKE ALL ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE OPERATING SYSTEM.
3. POWER SUPPLY SHALL ALWAYS BE INSTALLED TO THE LEFT SIDE OF FIXTURE WHEN FACING ARCADE.
4. OVERALL FIXTURE RUN TO BE CENTERED ON OVERALL LENGTH OF WALL.
5. CONNECT NEW LED FIXTURES TO EXISTING LIGHTING CIRCUIT(S) AS REQUIRED. ENSURE THAT CIRCUIT BREAKER AND CONDUCTOR SIZES DO NOT EXCEED 1200 WATTS ON A 15A CIRCUIT AND 1600 WATTS ON A 20A CIRCUIT. VERIFY EXISTING CONDITIONS AND REQUIREMENTS IN FIELD. PROVIDE ADDITIONAL CIRCUITS (C.B., WIRING, CONDUITS) AS REQUIRED.

CONDUIT, WIRE SIZE AND GROUNDING FOR HVAC UNITS

HACR BRKR SIZE	CONDUIT & WIRE SIZE
40A	1" C-3#8
45A	1" C-3#6
50A	1" C-3#6
60A	1" C-3#6
70A	1-1/4" C-3#4
80A	1-1/4" C-3#3
90A	1-1/4" C-3#3
100A	1-1/4" C-3#2
125A	1-1/2" C-3#1
150A	1-1/2" C-3#1/0
175A	2" C-3#2/0
200A	2" C-3#3/0
225A	2" C-3#4/0
250A	2-1/2" C-3#250



4 HVAC GROUNDING DETAIL
E-4.0 NOT TO SCALE



B - DT WINDOW DETECTOR LOOP

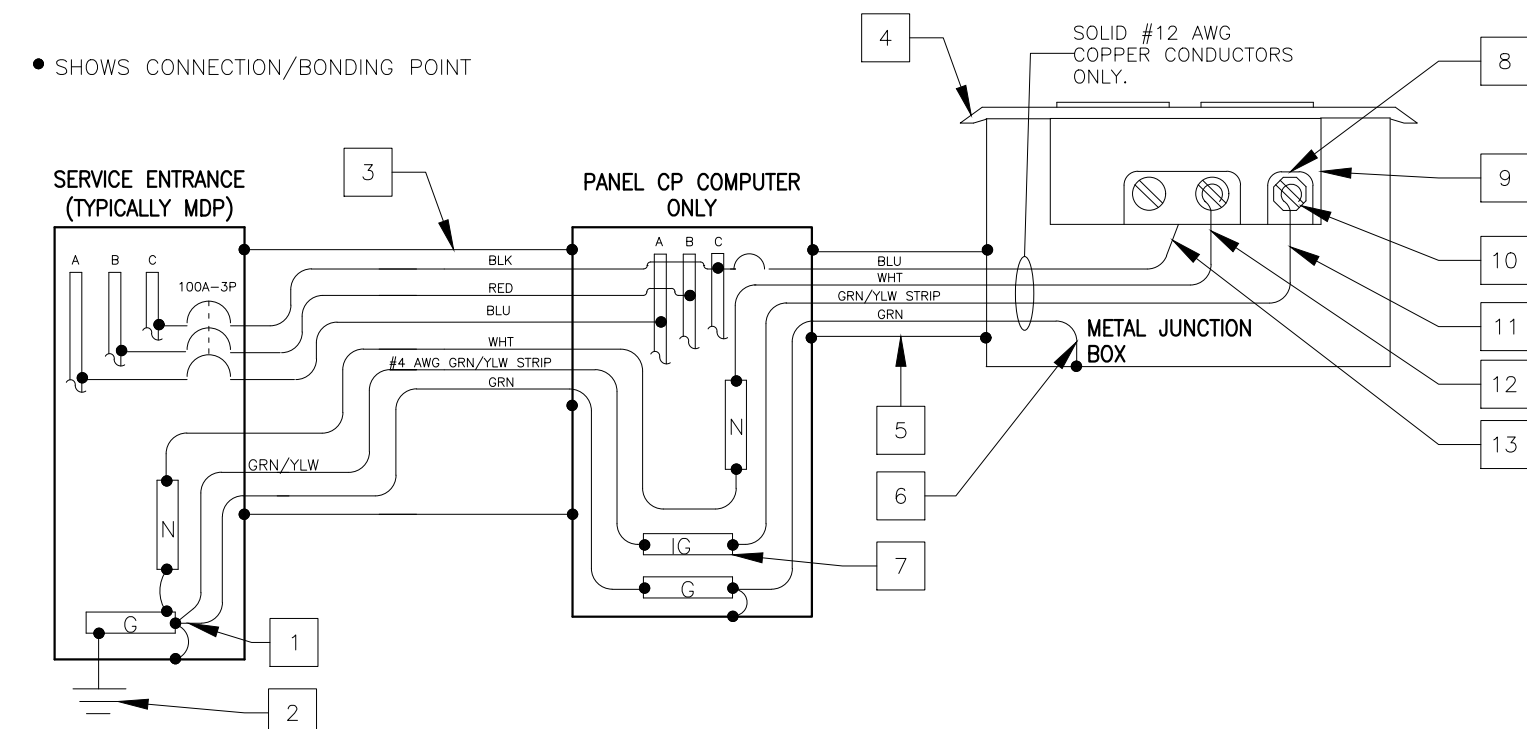
2 DETECTOR LOOP DETAILS
E-4.0 NOT TO SCALE

A - SPEAKER CANOPY DETECTOR LOOP

NOTES

1. VERIFY CONDUIT SIZES AND LAYOUT WITH DETECTOR LOOP MANUFACTURER.
2. CENTER VEHICLE DETECTOR LOOP (ITEM # 217.11E1) IN DRIVE THRU LANE. INSTALL PER MFR. RECOMMENDATIONS.
3. SEE CIVIL FOR DIMENSIONS OF DRIVE-THRU LANE CONCRETE PAD FOR DETECTOR LOOP.
4. NO STEEL (REBAR OR ELECTRICAL WIRE) SHALL BE USED WITHIN 2" OF LOOP.
5. DETECTOR LOOP MANUFACTURERS: DETECTOR LOOPS MAY BE BY ONE OF THE FOLLOWING COMPANIES OR EQUAL.
3M: 1-800-328-0033
HME: 1-800-848-4468
6. DETECTOR LOOP MATERIAL: PVC TUBING 1/2" I.D. 100 PSI LOOP MADE FROM ONE LENGTH OF THIN FOURTEEN GAUGE STRANDED WIRE. LEAD-IN IS PRE-TWISTED AT FACTORY.
7. DETECTOR LOOP CONSTRUCTION: FORMED WITH ONE CONTINUOUS LENGTH OF PVC WITH NO SHARP CORNERS AS DETAILED. WIRE LOOPED, FORMED, & PITTAILED AS DETAILED.

• SHOWS CONNECTION/BONDING POINT



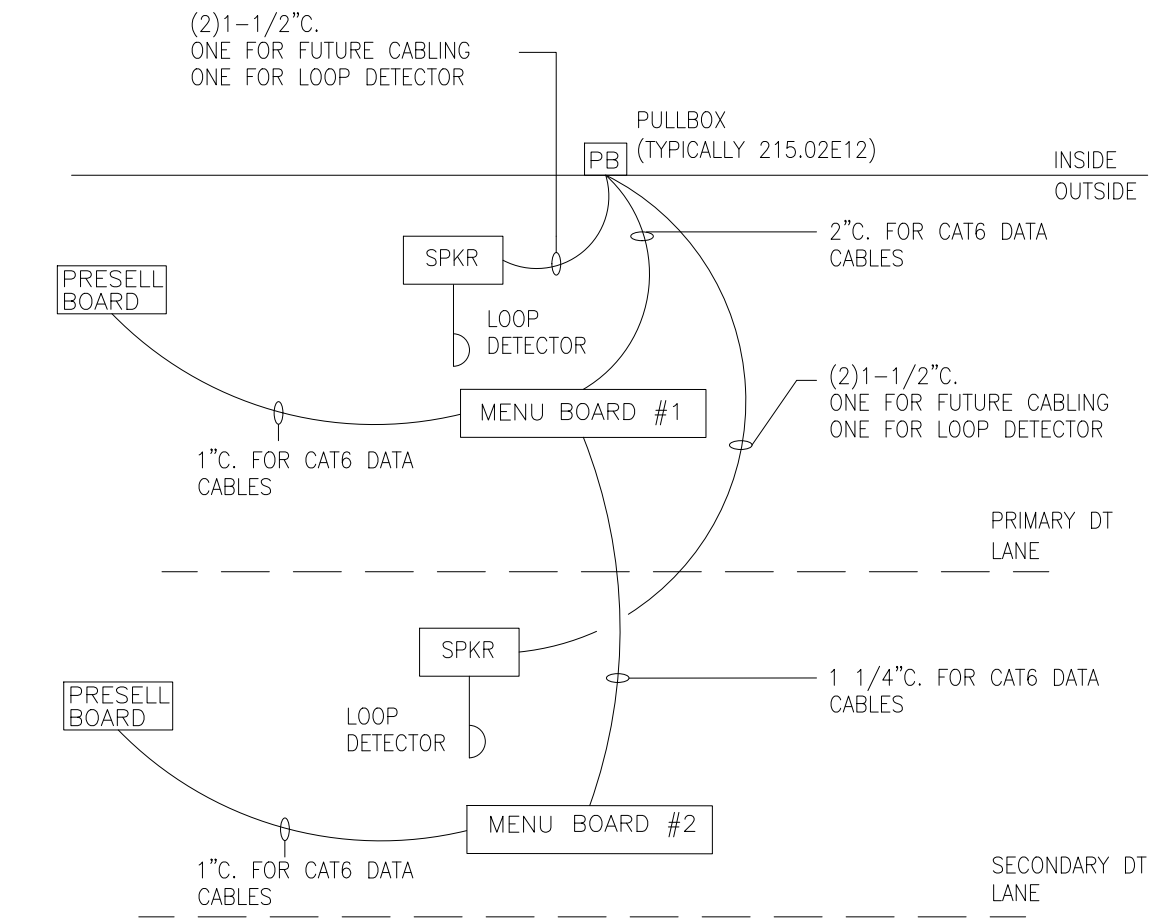
NOTES

1. ALL P.O.S. EQUIPMENT (COMPUTERS, PRINTERS, MONITORS, KVS, MODEM, HUB & CO) SHALL BE POWERED FROM THE COMPUTER PANEL.
2. ISOLATED GROUND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF NEC SECTION 250.
3. EACH 20 AMP CIRCUIT SHALL HAVE ITS OWN ISOLATED EQUIPMENT GROUNDING CONDUCTOR.
4. ENTIRE GROUNDING SYSTEM SHALL COMPLY WITH NEC ARTICLE 250 AND MCDONALD'S BUILDING GROUNDING DETAIL.
5. EC SHALL VERIFY CORRECT POLARITY AT RECEPTACLE.
6. EC SHALL VERIFY THAT SUBPANEL CP DOES NOT CONTAIN ANY ILLEGAL NEUTRAL TO GROUND BONDS.
7. PANEL CP SHALL ONLY BE USED TO POWER SENSITIVE ELECTRONIC EQUIPMENT, AS OUTLINED IN NOTE #1. IT SHALL NOT BE USED TO POWER ANY OTHER LOADS.
8. IT IS A SAFETY HAZARD AND AN NEC VIOLATION FOR THE POS SYSTEM TO HAVE ITS OWN INDEPENDENT GROUNDING ROD. IF AN INDEPENDENT GROUND ROD IS FOUND FOR THE POS SYSTEM, IT SHALL BE BONDED TO THE BUILDING GROUNDING SYSTEM.

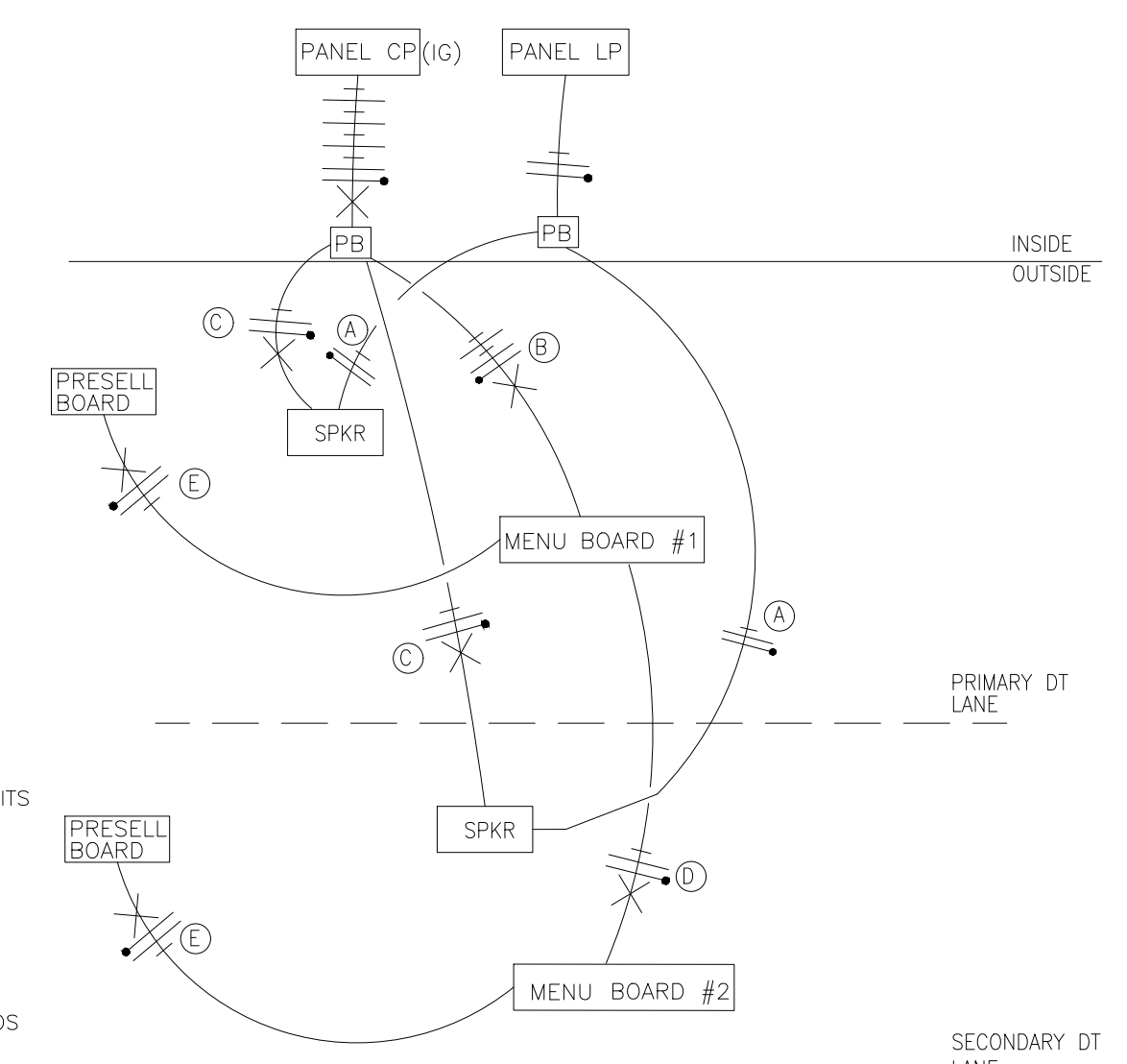
KEY NOTES

1. THIS IS THE ONLY POINT WHERE THE ISOLATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE CONNECTED TO THE BUILDING'S GROUNDING SYSTEM.
2. SEE BUILDING GROUNDING DETAIL SHEET E4.2.
3. 1 1/2" METAL CONDUIT: 4-#1 CU + 1-#6 CU EQUIP GND + 1-#4 CU ISOLATED GND.
4. ALL ISOLATED GROUND/DEDICATED CIRCUIT RECEPTACLE COVER PLATES SHALL BE ORANGE HUBBELL P1700 (SINGLE), P1800 (ONE DUPLEX) OR P18200 (TWO DUPLEX) MARKED "COMPUTER ONLY".
5. METAL CONDUIT SHALL CONTAIN ONLY P.O.S. CIRCUIT CONDUCTORS (DEDICATED CIRCUIT). ONLY USE RIGID NON-METALLIC CONDUIT BELOW GRADE WHEN REQUIRED BY LOCAL CODE.
6. EQUIPMENT GROUNDING BONDING CONDUCTOR (TYPICAL)
7. ISOLATED GROUND BUS, ELECTRICALLY INSULATED FROM PANEL ENCLOSURE USED TO TERMINATE ONLY ISOLATED EQUIPMENT GROUNDING CONDUCTORS.
8. ALL CONDUCTORS SHALL BE SOLID COPPER AND TERMINATED TO THEIR APPROPRIATE TERMINAL SCREWS BY WRAPPING THE CONDUCTOR COMPLETELY AROUND THE SCREW BARREL AND TIGHTENING THE SCREW PER MANUFACTURER'S TORQUE SPECIFICATIONS.
9. ISOLATED GROUND RECEPTACLE HUBBELL-IG1700/IG1710/IG2000 OR IGS261. SEE ROUGH IN SCHEDULE FOR THE APPROPRIATE RECEPTACLE TO USE.
10. ISOLATED GREEN GROUND SCREW.
11. ISOLATED EQUIPMENT GROUNDING CONDUCTOR (GRN W/YLW STRIP)
12. NEUTRAL CONDUCTOR TERMINATED ON SILVER SCREW.
13. PHASE CONDUCTOR TERMINATED ON BRASS SCREW

5 POS & COD ISOLATED GROUND/DEDICATED CIRCUIT
E-4.0 NOT TO SCALE



DT LOW VOLTAGE CONDUIT DIAGRAM
NOT TO SCALE

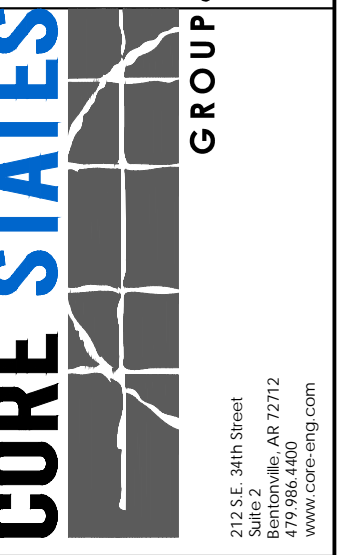
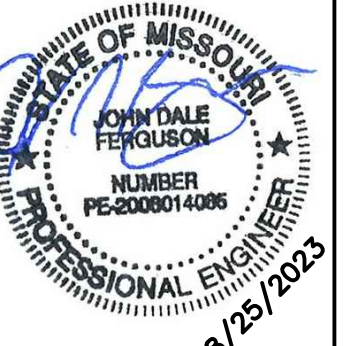


6 DRIVE THRU POWER DIAGRAM
E-4.0 NOT TO SCALE

NOTE:

• VERIFY EXACT CIRCUITS & QUANTITIES OF CIRCUITS WITH PANEL SCHEDULES AND MANUFACTURERS INSTALLATION INSTRUCTIONS.

- (A) 2#12 & 1#12 GND. TO LP-1 FOR COD CANOPY LIGHTING.
- (B) 4#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO MENUBOARDS AND MEDIA PLAYERS.
- (C) 2#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO SPEAKER CANOPY/STAND. EACH CANOPY/STAND SHALL BE ON ITS OWN SEPARATE CIRCUIT.
- (D) 2#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO MENUBOARDS AND MEDIA PLAYERS.
- (E) 2#12 & 1#12 GND & 1#12 ISOLATED GND., TO CP FOR ISOLATED GROUND POWER TO FOR PRESELL BOARDS AND MEDIA PLAYER.

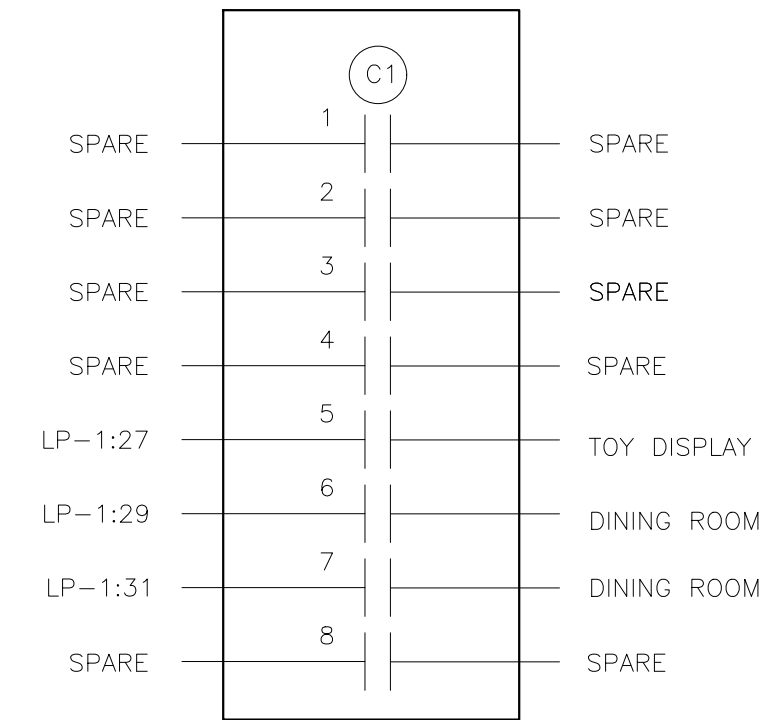


PREPARED BY: CORE STATES GROUP
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McDonald's USA, LLC
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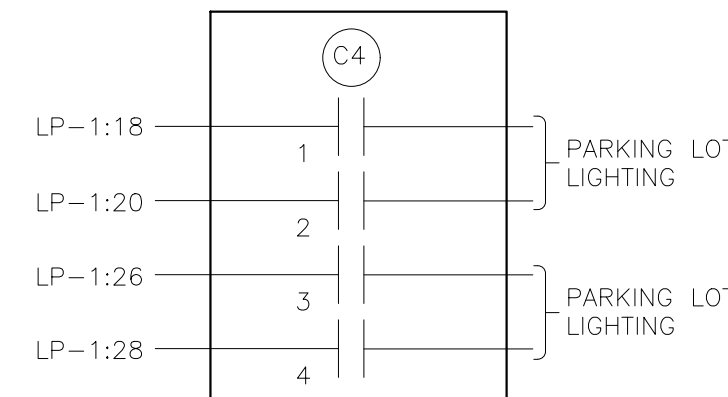
2022 STANDARD BUILDING - BB20
45114-WOOD/WOOD
DESCRIPTION: WOOD BEARING WALLS W/HARDBOARD SIDING, WOOD ROOF TRUSS FRAMING
SITES/BATTEN/ACM PANEL/HARDBOARD SIDING
SITE ID: 024-1289
SALEM, MO
DATE ISSUED: 10-21-2022
REVIEWED BY: R.K.
STD ISSUE DATE: 2022_08
DRAWN BY: TFF
TITLE: 2022 STANDARD BUILDING - BB20
SHEET NO: E4.0
WIRING DETAILS
24-1289.00.0
DATE: 10-21-2022
REV: 1
DESCRIPTION: 24-1289.00.0
BY: 24-1289.00.0

LIGHTING CONTROL SYSTEM

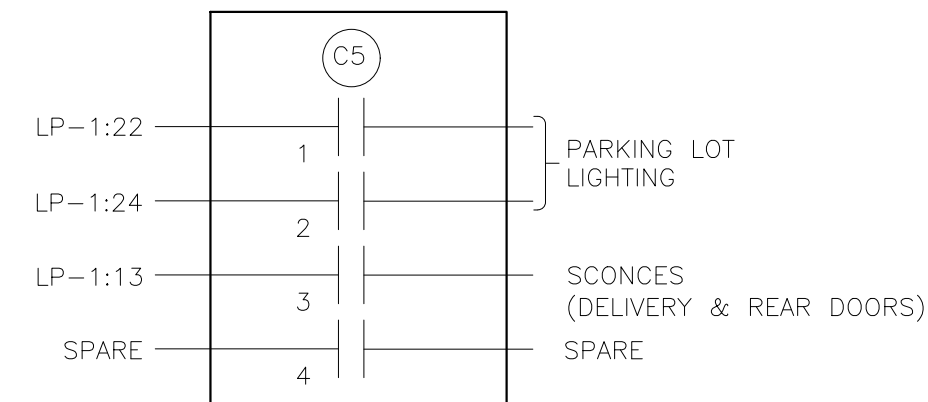
INTERIOR CUSTOMER LIGHTING



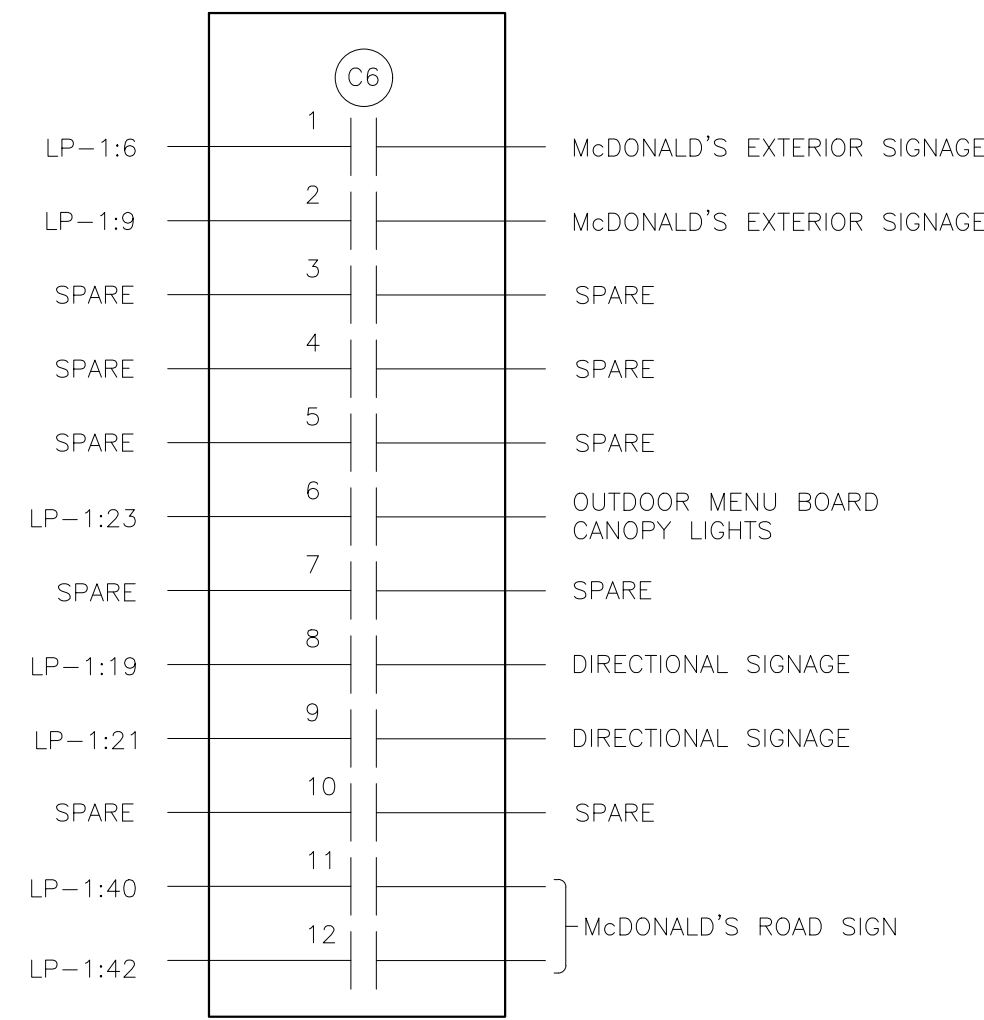
EXTERIOR LIGHTING



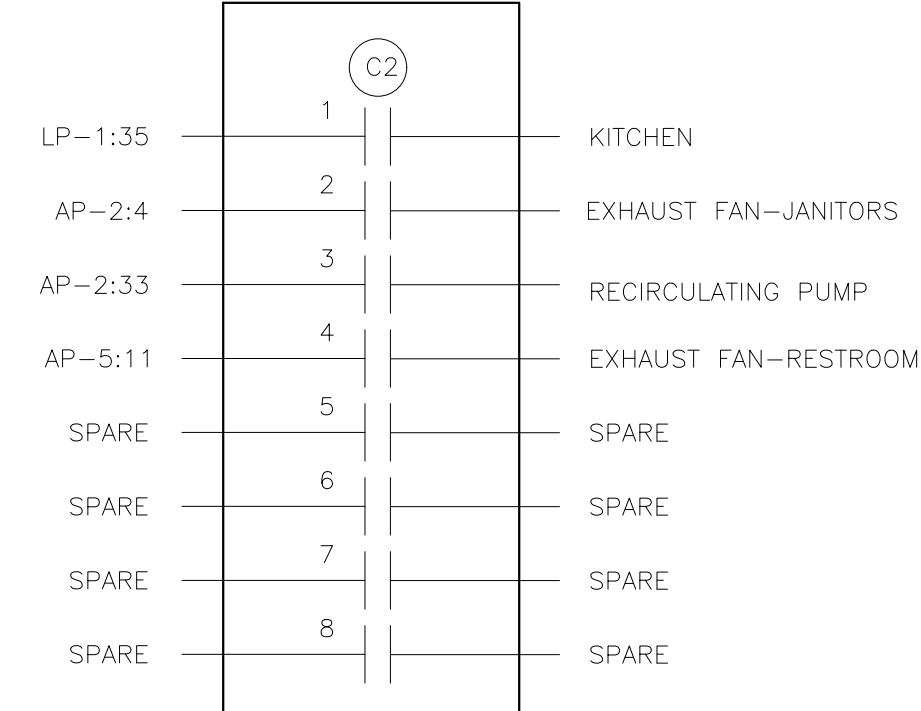
EXTERIOR LIGHTING



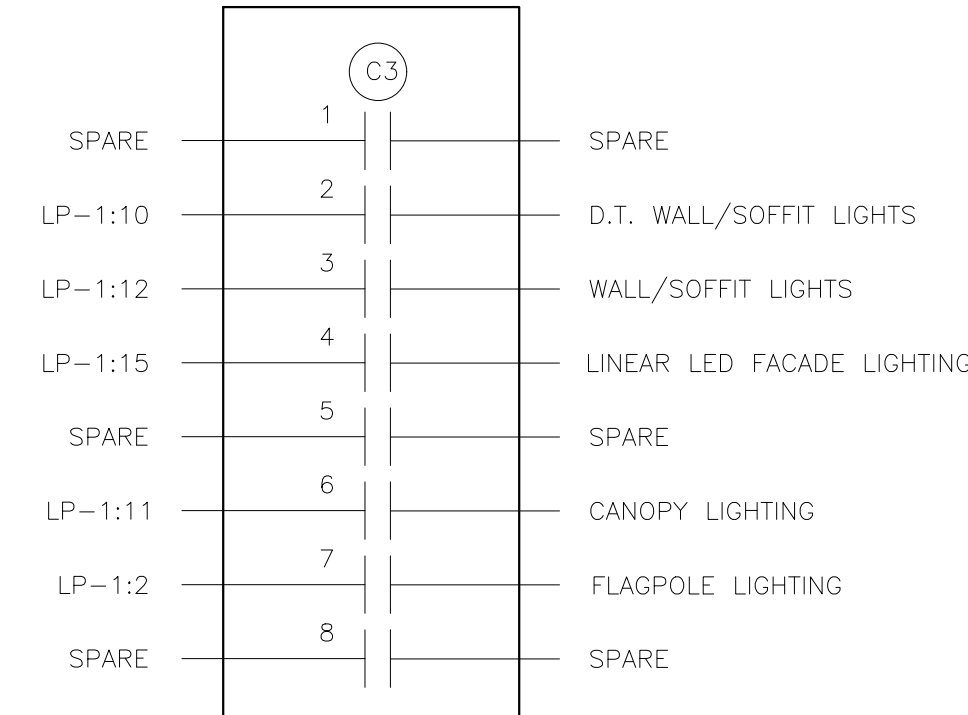
EXTERIOR SIGNAGE



INTERIOR CREW LIGHTING



BUILDING FACADE



LIGHTING CONTROL NOTES:

LIGHTING CONTROL NOTES

- LC1. CONTACTOR DETAILS ARE DIAGRAMMATIC ONLY AND ARE SHOWN WITH TYPICAL LOADS AND CIRCUIT ASSIGNMENTS. LOADS, CIRCUIT ASSIGNMENTS AND NUMBER OF CONTACTORS MAY VARY BY RESTAURANT LOCATION AND PER BAS SUPPLIERS SYSTEMS. VERIFY EXACT REQUIREMENTS WITH BAS INSTALLATION DETAILS, SITE PLANS, ELECTRICAL PANEL SCHEDULES AND ACM. EC SHALL MAKE ALL MODIFICATIONS AS REQUIRED. FINAL INSTALLATION SHALL BE FULLY NEC AND ENERGY CODE COMPLIANT.
- LC2. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING, CONNECTIONS, TERMINATIONS, ETC. THAT ARE NOT PROVIDED BY THE BAS SUPPLIER FOR A COMPLETE, FULLY OPERATIONAL AND CODE COMPLIANT LIGHTING CONTROL SYSTEM.

- LC3. ALL COMPONENTS FOR THIS LIGHTING CONTROL SYSTEM SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR. SEE BOXED NOTE BELOW FOR OPTIONS.
- LC4. ALL COMPONENTS SHALL BE UL LISTED AND LABELED AND THE SYSTEM SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL ENERGY CODE REQUIREMENTS.
- LC5. ALL CONTACTORS SHALL BE LOCATED IN A NEMA 1 ENCLOSURE WITH SCREW TYPE COVER MOUNTED DIRECTLY ABOVE LIGHTING PANEL OR SWITCHGEAR 30 AS TO BE ACCESSIBLE.
- LC6. ALL CONTACTORS SHALL BE RATED FOR 30 AMP LOADS UNLESS NOTED OTHERWISE AND SHALL BE HIG RATED WHERE REQUIRED.
- LC7. COIL VOLTAGES FOR ALL CONTACTORS SHALL BE 120 VOLT UNLESS NOTED OTHERWISE.
- LC8. CONTACTOR C5 IS INTENDED TO CONTROL PARKING LOT LIGHTS NEAR TRASH CORRAL, DELIVERY DOORS, AND EMPLOYEE PARKING, THUS ALLOWING A DIFFERENT LIGHTING SCHEDULE TO BE USED IN THOSE AREAS.

LIGHTING CONTROL INSTALLATION OPTIONS

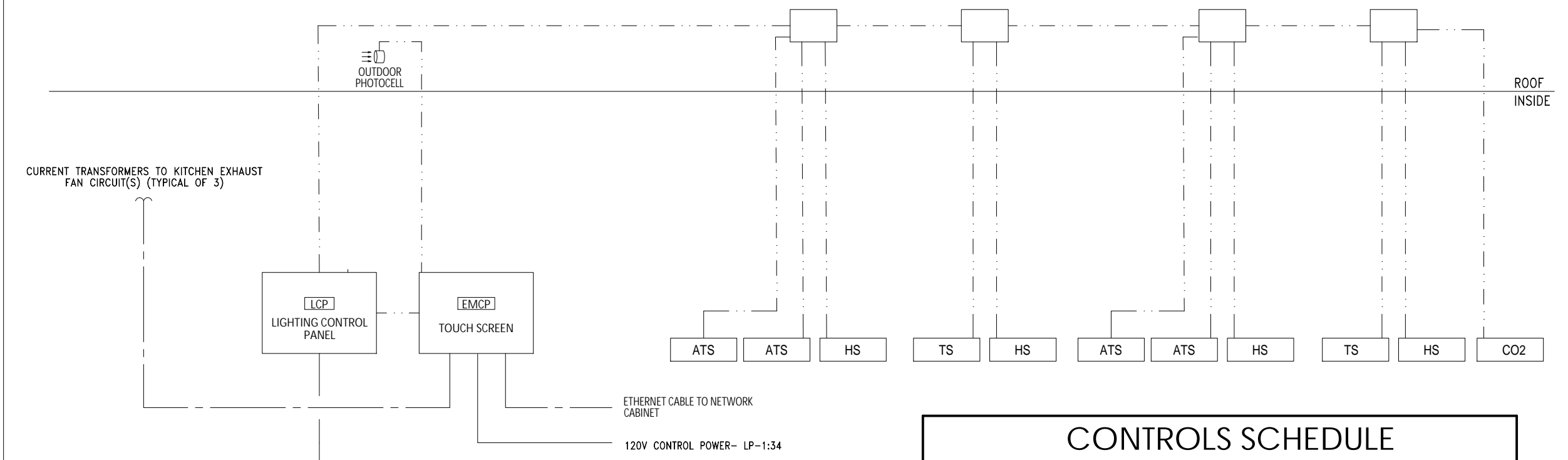
- OPTION 1 (STANDARD) CONTACTORS AND CONTACTOR ENCLOSURE FOR THIS LIGHTING CONTROL SYSTEM SHALL BE FURNISHED BY THE BAS SUPPLIER AND INSTALLED BY THE ELECTRICAL CONTRACTOR ON SITE FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- OPTION 2 (OPTIONAL) LIGHTING CONTROL CAN BE ACCOMPLISHED VIA UTILIZATION OF A SMART TYPE BREAKER PANEL REPLACING STANDARD PANEL LP-1. PANEL SHALL UTILIZE AN INTEGRAL MOTOR OPERATED CIRCUIT BREAKERS OR AN INTEGRAL CIRCUIT BREAKER/CONTACTOR TYPE COMBINATION DEVICE WITH AN INTEGRAL PROGRAMMING CONTROL MODULE AND SHALL BE ORDERED THROUGH OUR ELECTRICAL EQUIPMENT NATIONAL ACCOUNT PROGRAM (SQUARE-D) THROUGH OUR CONSTRUCTION PURCHASING TEAM.

BUILDING AUTOMATION SYSTEM NOTES

- BAS1. THE DIAGRAM SHOWN ABOVE IS SCHEMATIC IN NATURE AND SHOWS THE GENERAL REQUIREMENTS FOR THE INSTALLATION OF THE BUILDING AUTOMATION SYSTEM. EXACT EQUIPMENT REQUIREMENTS AND QUANTITIES WILL VARY PER SITE. G.C., M.C., T.C.C. AND E.C. SHALL COORDINATE ALL EXACT EQUIPMENT AND INSTALLATION REQUIREMENTS WITH SUPPLIER PRIOR TO SUBMITTING BID FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- BAS2. THE BUILDING AUTOMATION SYSTEM ALSO HAS ADDITIONAL OPTIONS AVAILABLE SUCH AS MONITORING DOOR CONTACTS (RESTROOM & COOLER FREEZER), ENERGY METER, COOLER/FREEZER TEMP. ADDITIONAL OPTIONS MAY BE SELECTED ON CENTRAL PURCHASING PROJECT DETAIL FORM. G.C., M.C., T.C.C. AND E.C. SHALL COORDINATE ALL EXACT INSTALLATION REQUIREMENTS WITH SUPPLIER PRIOR TO SUBMITTING BID FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- BAS3. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LINE AND LOW VOLTAGE WIRING AND CONNECTIONS, INCLUDING BUT NOT LIMITED TO CONTROL POWER TO ALL BAS COMPONENTS AND POWER CIRCUITRY WIRING OF ALL LIGHTING CONTACTORS. COORDINATE INSTALLATION WITH SITE SPECIFIC BAS INSTALLATION DETAILS PROVIDED BY SUPPLIER.

BUILDING AUTOMATION SYSTEM

INSTALLATION & TECHNICAL ASSISTANCE INFORMATION:
LENNOX BAS: McD@CCBAC.com



PROVIDE AND INSTALL DATA OUTLET NEXT TO BAS PANEL. REMOTE COMMISSIONING IS NOT POSSIBLE WITHOUT DATA CONNECTION.

INSTALLATION NOTES:

- PROVIDE, INSTALL AND SECURE ALL NECESSARY CABLE & CONDUIT PER BAS DRAWINGS AND SPECIFICATIONS.
- MOUNT ALL BAS CONTROL ENCLOSURES.
- PERFORM ALL LOW VOLTAGE TERMINATIONS.
- ROUGH-IN, INSTALLATION AND WIRING FOR TEMPERATURE SENSORS AND TOUCHSCREEN PER PLAN LOCATIONS.
- PROVIDE POWER CIRCUITS INTO CONTROL CANS PER BAS DETAILS.
- COORDINATE WITH SUPPLIER TO SCHEDULE REMOTE COMMISSIONING.
- CORRECT ALL PUNCH LIST ITEMS FOUND DURING REMOTE COMMISSIONING.

CONTROLS SCHEDULE

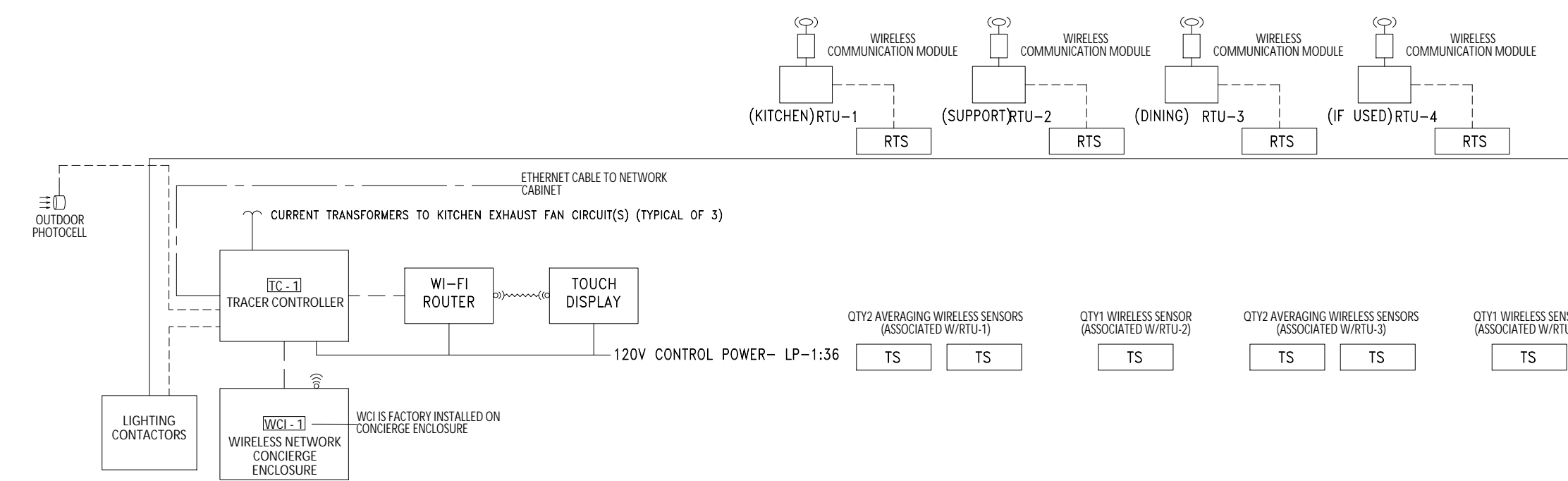
MARK	DESCRIPTION	MANUFACTURER	MODEL
TS	TEMPERATURE SENSOR	*PROVIDED WITH BAS	
ATS	AVERAGING TEMPERATURE SENSOR	*PROVIDED WITH BAS	
HS	HUMIDITY SENSOR	*PROVIDED WITH BAS	

NOTES:
1. FOR TS, HS AND ATS LOCATIONS, REFER TO M1.2

WIRE LEGEND

MARK	WIRE/CABLE TYPE
---	CAT 5E
---	18 AWG CONDUCTORS

INSTALLATION & TECHNICAL ASSISTANCE INFORMATION:
TRANE BAS: McDcontrols@Trane.com



PROVIDE AND INSTALL DATA OUTLET NEXT TO BAS PANEL. REMOTE COMMISSIONING IS NOT POSSIBLE WITHOUT DATA CONNECTION.

INSTALLATION NOTES:

- PROVIDE, INSTALL AND SECURE ALL NECESSARY CABLE & CONDUIT PER BAS DRAWINGS AND SPECIFICATIONS.
- MOUNT ALL BAS CONTROL ENCLOSURES.
- PERFORM ALL LOW VOLTAGE TERMINATIONS.
- ROUGH-IN, INSTALLATION AND WIRING FOR TEMPERATURE SENSORS AND TOUCHSCREEN PER PLAN LOCATIONS.
- PROVIDE POWER CIRCUITS INTO CONTROL CANS PER BAS DETAILS.
- COORDINATE WITH SUPPLIER TO SCHEDULE REMOTE COMMISSIONING.
- CORRECT ALL PUNCH LIST ITEMS FOUND DURING REMOTE COMMISSIONING.

CONTROLS SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL
TS	WIRELESS SPACE TEMPERATURE SENSOR	*PROVIDED WITH BAS	
RTS	RETURN TEMPERATURE SENSOR	*PROVIDED WITH BAS	
HS	OUTDOOR TEMPHUMIDITY SENSOR	FACTORY FURNISHED AND INSTALLED W/EACH RTU	

NOTES:
1. FOR TS LOCATIONS, REFER TO M1.2
2. RTS TO BE MOUNTED IN RETURN AIR DUCT OF RTU

WIRE LEGEND

MARK	WIRE/CABLE TYPE
---	CAT 5E
---	18 AWG CONDUCTORS

REV. DATE DESCRIPTION

PREPARED BY: CORE STATES GROUP

DATE: 08/25/2022

PROFESSIONAL ENGINEER

JOHN DALE FERUGSON

NUMBER: PE-800014085

STATE OF MISSISSIPPI

21214 Main Street
Birmingham, AL 35212
www.corestates.com

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McDonald's USA, LLC

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DRAWN BY: TFF

DATE: 2022_08

REVIEWED BY: R.K.

DATE ISSUED: 10-21-2022

TITLE: 2022 STANDARD BUILDING - BBZ0

45114-WOOD/WOOD

DESCRIPTION: WOOD BEARING WALLS W/HAROE BOARD SIDING
WOOD ROOF TRUSS FRAMING
EPS/BATTEN/ACM PANEL/HAROE BOARD SIDING

SHEET NO: 24-1289.00.0

E4.1

LIGHTING CONTROLS

SALEM, MO

024-1289

1000 S Main Street

MLO, AIC, NOTES D6, D7, & D8, Mounting: flush, NEMA 1			PANEL LP-1												
WATTS			BRKR	TRIP	CCT	CCT	TRIP	BRKR	DESCRIPTION				WATTS		
A	B	C	REQ	PLS	NO.	NO.	PLS	REQ	A	B	C	A	B	C	
0	0	0	20A-1	1	2	20A-1	S	Flag Pole							
0	0	0	20A-1	4	4	20A-1	S	Spine							
0	0	0	20A-1	5	6	20A-1	S	Exterior Signage							
0	0	0	20A-1	7	8	20A-1	S	Spine							
0	0	0	20A-1	10	10	20A-1	S	Exterior Wall/Soffit Lights DT							
11	185	114	20A-1	12	12	20A-1	S	Exterior Wall/Soffit Lights							
42	126	0	20A-1	13	14	20A-1	S	DCO In Road Sign Base							
0	0	0	20A-1	15	16	20A-1	S.L	Dr Alarm/CO2							
96	96	0	20A-1	17	18	30A-2	L	Lot Lights							
0	120	0	20A-1	19	20	20A-1	S	Lot Lights							
0	30	0	20A-1	25	26	30A-2	L	Lot Lights							
0	30	119	20A-1	27	28	30A-2	L	Lot Lights							
160	78	0	20A-1	29	30	30A-2	L	Spine							
0	0	0	20A-1	31	32			Spine							
0	0	0	20A-1	33	34	20A-1	L	BAS Controller							
144	388	440	20A-1	35	36	20A-1	L	Lighting Control Panel							
0	0	0	20A-1	37	38	20A-1	S.L	Night/Ltg/Emerg. LED Lighting							
0	0	0	20A-1	39	40	60A-2	S	Mc/S Road Sign							
0	0	0	20A-1	41	42			Spine							
Total Connect									1930	5166	5248				
Connect Amps										34	Amps				
Demand Amps										43	Amps				

MLO, AIC, NOTES D6, D7, & D8, Mounting: MDP, NEMA 1			PANEL AP-1												
WATTS			BRKR	TRIP	CCT	CCT	TRIP	BRKR	DESCRIPTION				WATTS		
A	B	C	REQ	PLS	NO.	NO.	PLS	REQ	A	B	C	A	B	C	
1224	720	720	20A-1	1	2	20A-2	G	Coffee brewer (presenter's booth)							
120	240	960	20A-1	3	4										
960	1800	120	20A-1	5	6										
2246	2246	1500	20A-1	7	8										
1200	1080	2112	20A-1	9	10										
1500	60	1200	20A-1	11	12										
132	132	1656	20A-1	13	14										
Total Connect									15558	13734	17040				
Connect Amps										129	Amps				
Demand Amps										88	Amps				

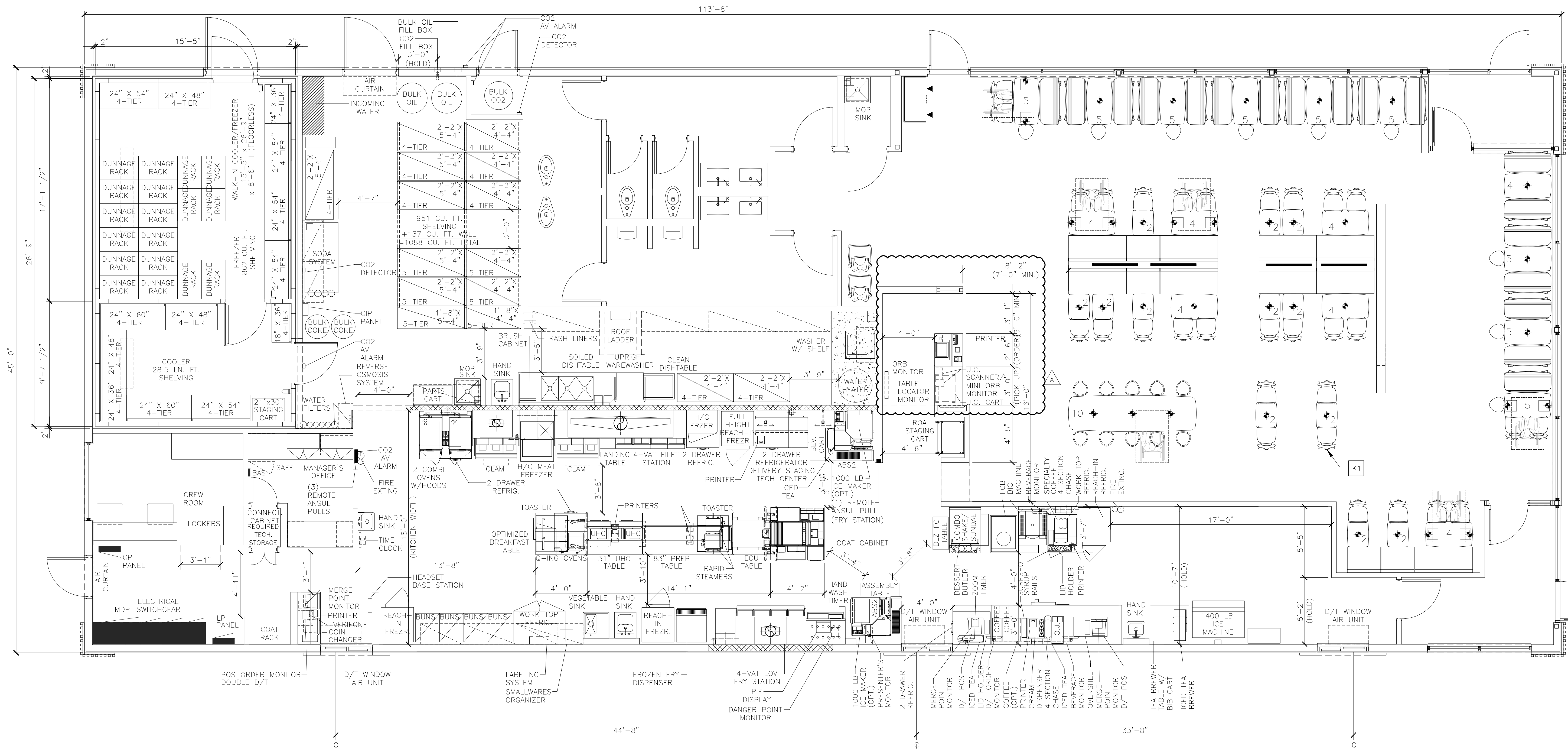
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WATTS			BRKR	TRIP	CCT	CCT	TRIP	BRKR	DESCRIPTION				WATTS		
A	B	C	REQ	PLS	NO.	NO.	PLS	REQ	A	B	C	A	B	C	
1536	0	0	20A-3	1	2	20A-1	G	Ice machine 1400lb							
0	180	0	20A-1	3	4	20A-1	G	Dco-General Purpose							
0	864	1668	20A-1	5	6	20A-1	G	Janitor's closet							
840	120	490	20A-1	7	8	20A-1	G	Spine							
180	1200	1032	20A-1	9	10	20A-1	G	Spine							
684	120	1632	20A-1	11	12	20A-1	G	Spine							
3120	3120		20A-1	13	14	20A-1	G	Spine							
Total Connect									13852	15308	17174				
Connect Amps										129	Amps				
Demand Amps										85	Amps				

MLO, AIC, NOTES D6, D7, & D8, Mounting: MDP, NEMA 1			PANEL AP-3												
WATTS			BRKR	TRIP	CCT	CCT	TRIP	BRKR	DESCRIPTION				WATTS		
A	B	C	REQ	PLS	NO.	NO.	PLS	REQ	A	B	C	A	B	C	
4668	4668	4668	50A-3	1	2	50A-3	G	4-Vat-Fryer-Electric-S/S/S/S							
4668	4668	4668	50A-3	3	4										
0	0	0	50A-3	5	6										
0	0	0	50A-3	7	8										
0	0	0	50A-3	9	10										
0	0	0	50A-3	11	12										
0	0	0	50A-3	13	14										
0	0	0	50A-3	15	16										
0	0	0	50A-3	17	18										
0	0	0	50A-3	19	20										
0	0	0	50A-3	21	22										
0	0	0	50A-3	23	24										
0	0	0	50A-3	25	26										
0	0	0	50A-3	27	28										
0	0	0	50A-3	29	30										
0	0	0	50A-3	31	32										
0	0	0	50A-3	33	34										
0	0	0	50A-3	35	36										
0	0	0	50A-3	37	38										
0	0	0	50A-3	39	40										
0	0	0	50A-3	41	42										
Total Connect									26472	26472	26472				
Connect Amps										220	Amps				
Demand Amps										143	Amps				

MLO, AIC, NOTES D6, D7, & D8, Mounting: MDP, NEMA 1			PANEL AP-4												
WATTS			BRKR	TRIP	CCT	CCT	TRIP	BRKR	DESCRIPTION				WATTS		
A	B	C	REQ	PLS	NO.	NO.	PLS	REQ	A	B	C	A	B	C	
2604	2604	2604	50A-3	1	2	50A-3	G	4-Vat-Fryer-Electric-F/F/F/F							
5196	5196	5196	50A-3	3	4										
4668	4668	4668	50A-3	5	6										
4668	4668	4668	50A-3	7	8										
0	0	0	50A-3	9	10										
0	0	0	50A-3	11	12										
0	0	0	50A-3	13	14										
0	0	0	50A-3	15	16										
0	0	0	50A-3	17	18										
0	0	0	50A-3	19	20										
0	0	0	50A-3	21	22										
0	0	0	50A-3	23	24										
0	0	0	50A-3	25	26										
0	0	0	50A-3	27	28										
0	0	0	50A-3	29	30										
0	0	0	50A-3	31	32										
0	0	0	50A-3	33	34										
0	0	0	50A-3	35	36										
0	0	0	50A-3	37	38										
0	0	0	50A-3	39	40										
0	0	0	50A-3	41	42										
Total Connect									26362	26492	26472				
Connect Amps										220	Amps				
Demand Amps										143	Amps				

MLO, AIC, NOTES D6, D7, & D8, Mounting: MDP, NEMA 1			PANEL AP-5												
WATTS			BRKR	TRIP	CCT	CCT	TRIP	BRKR	DESCRIPTION				WATTS		
A	B	C	REQ	PLS	NO.	NO.	PLS	REQ	A	B	C	A	B	C	
600	600	600	20A-1	1	2	20A-1	G	Fridge/Freezer 2Dr Base							
600	600	600	20A-1	3	4										
540	0	2080	20A-1	5	6										
2080	360	600	20A-1	7	8										
828	2620	2620	20A-1	9	10										
0	1368	0	20A-1	11	12										
0	0	0	20A-1	13	14										
0	0	0	20A-1	15	16										
0	0	0	20A-1	17	18										
0	0	0	20A-1	19	20										
0	0	0	20A-1	21	22										
0	0	0	20A-1	23	24										
0	0	0	20A-1	25	26										
0	0	0	20A-1	27	28										
0	0	0	20A-1	29	30										
0	0	0	20A-1	31	32										
0	0	0	20A-1	33	34										
0	0	0	20A-1	35	36										
0	0	0	20A-1	37	38										
0	0	0	20A-1	39	40										
0	0	0	20A-1	41	42										
Total Connect									7348	8620	9284				
Connect Amps										70	Amps				
Demand Amps										46	Amps				

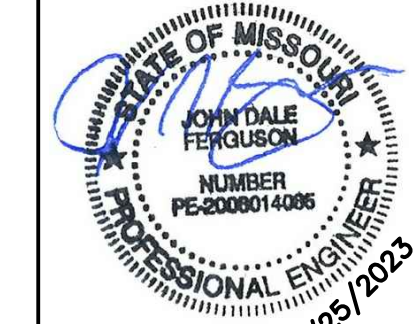
MLO, AIC, NOTES D6, D7, & D8, Mounting: MDP, NEMA 1			PANEL AP-6												
WATTS			BRKR	TRIP	CCT	CCT	TRIP	BRKR	DESCRIPTION				WATTS		
A	B	C	REQ	PLS	NO.	NO.	PLS	REQ	A	B	C	A	B	C	
4212	4212	1200	60A-2	1	2	20A-1	L,G	Unit AC-1							
1200	600	1612	20A-1	3	4	20A-1	L,G	Unit AC-3							
1612	4212	0	20A-1	5	6	20A-1	L,G	Unit AC-4							
0	0	0	20A-1	7	8	20A-1	L,G	Unit AC-5							
0	0	0	60A-2	9	10	15A-1	G	Coffee Brewer (front counter)							
0	0	0	60A-2	11	12	30A-3	G	Walk in cooler / freezer							
0	0	0	60A-2	13	14			Walk in cooler / freezer							
0	0	0	60A-2	15	16			Qing oven - P & S							
0	0	0	20A-1	17	18			Spine							
0	0	0	20A-1	19	20			Spine							
0	0	0	20A-1	21	22			Spine							
0	0	0	20A-1	23	24			Spine							
0	0	0	20A-1	25	26			Spine							
0	0	0	20A-1	27	28			Spine							
0	0	0	20A-1	29	30			Spine							
0	0	0	20A-1	31	32			Spine							



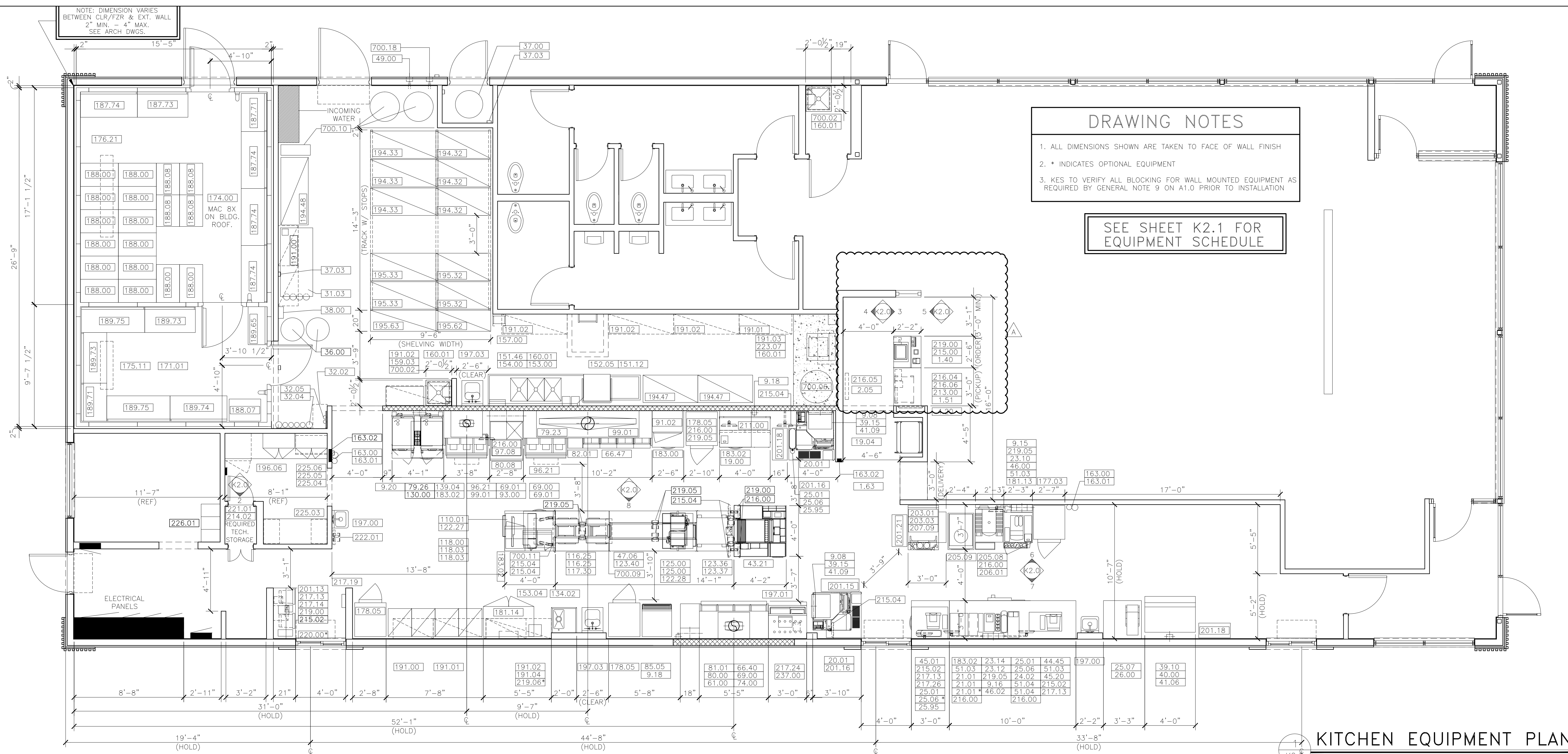
1 KITCHEN COVER SHEET
 K1.0 1/4" = 1'-0"

- KEYED NOTES**
- [K1] SEATING AND KIOSKS MUST BE 5'-0" CLEAR FROM BEVERAGE CELL WALL
 - [K2] CUSTOMER KIOSK & DECOR LAYOUT FOR REFERENCE ONLY. VERIFY KIOSK PLACEMENT PER USRD APPROVED KIOSK REVIEW

TITLE	2022 STANDARD BUILDING - BB20	DATE	8/25/2022
SHEET NO.	45114-WOOD/WOOD	REV	A
DESCRIPTION	WOOD BEARING WALLS W/HARDBOARD SIDING WOOD ROOF TRUSS FRAMING EPS/BATTEN/ACM PANEL/HARDBOARD SIDING	DATE	10-21-2022
SITE ID	024-1289	DATE	8/25/2022
SITE ADDRESS	1000 S Main Street	DATE	8/25/2022
SALEM, MO		DATE	8/25/2022
PREPARED FOR:	McDonald's USA, LLC	DATE	8/25/2022
PREPARED BY:	Core States Group	DATE	8/25/2022
DRAWN BY:	TFP	DATE	8/25/2022
STD ISSUE DATE	2022_08	DATE	8/25/2022
REVIEWED BY:	R.K.	DATE	10-21-2022
DATE ISSUED	10-21-2022	DATE	8/25/2022
DESCRIPTION		DATE	8/25/2022
BY		DATE	8/25/2022

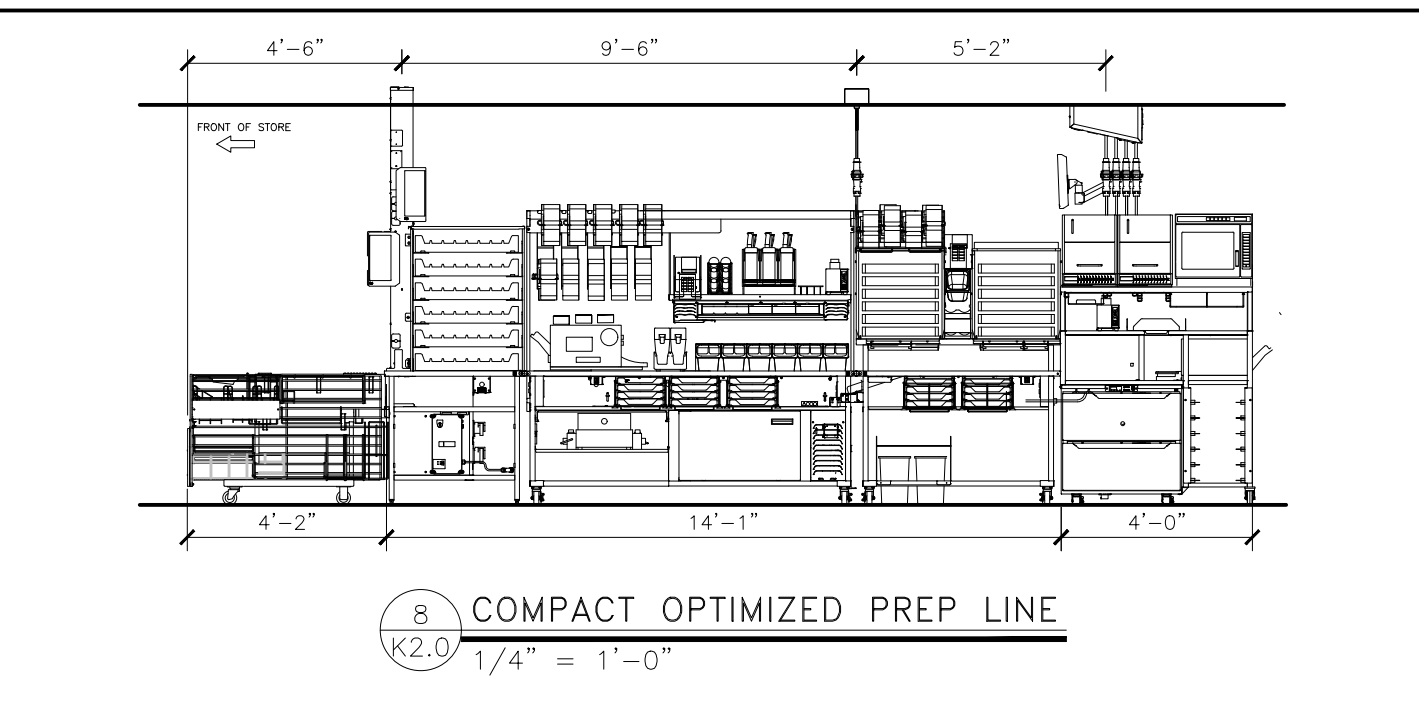
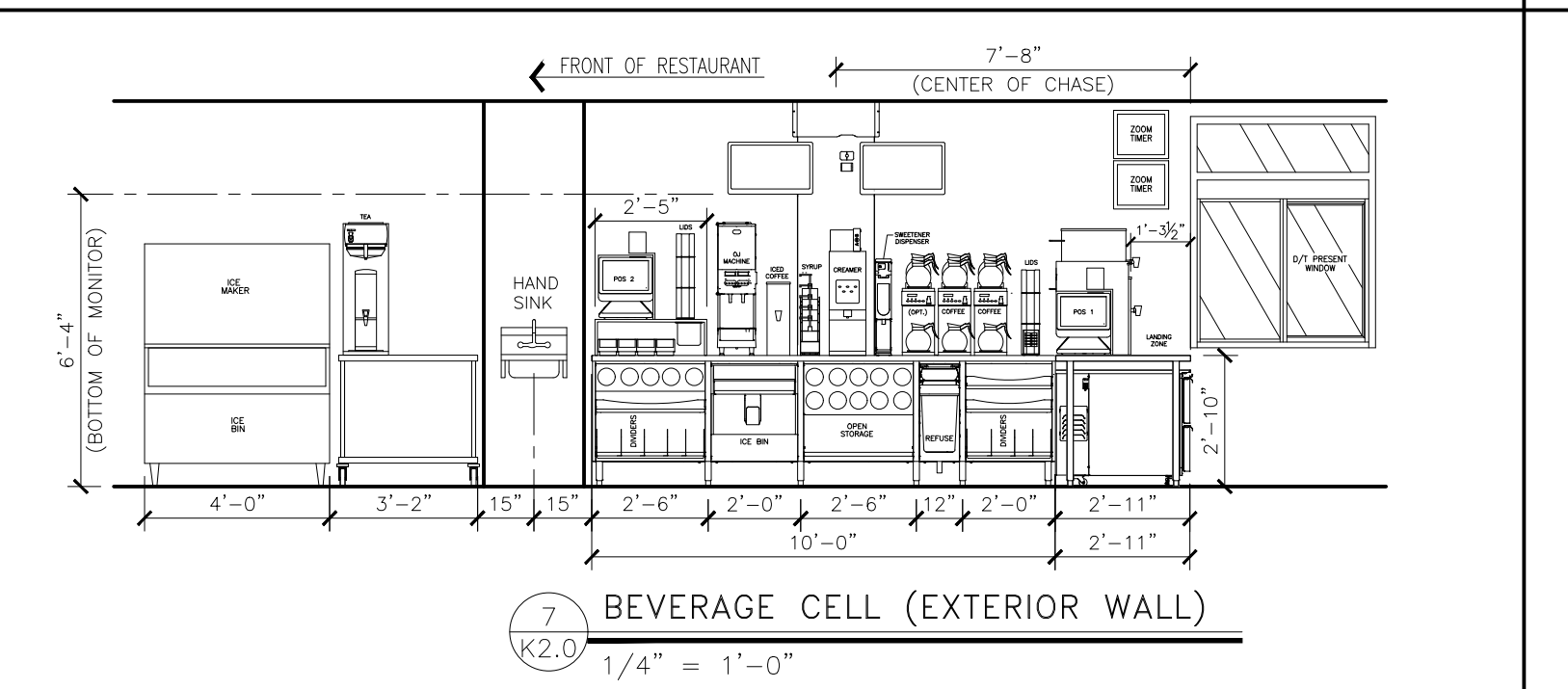
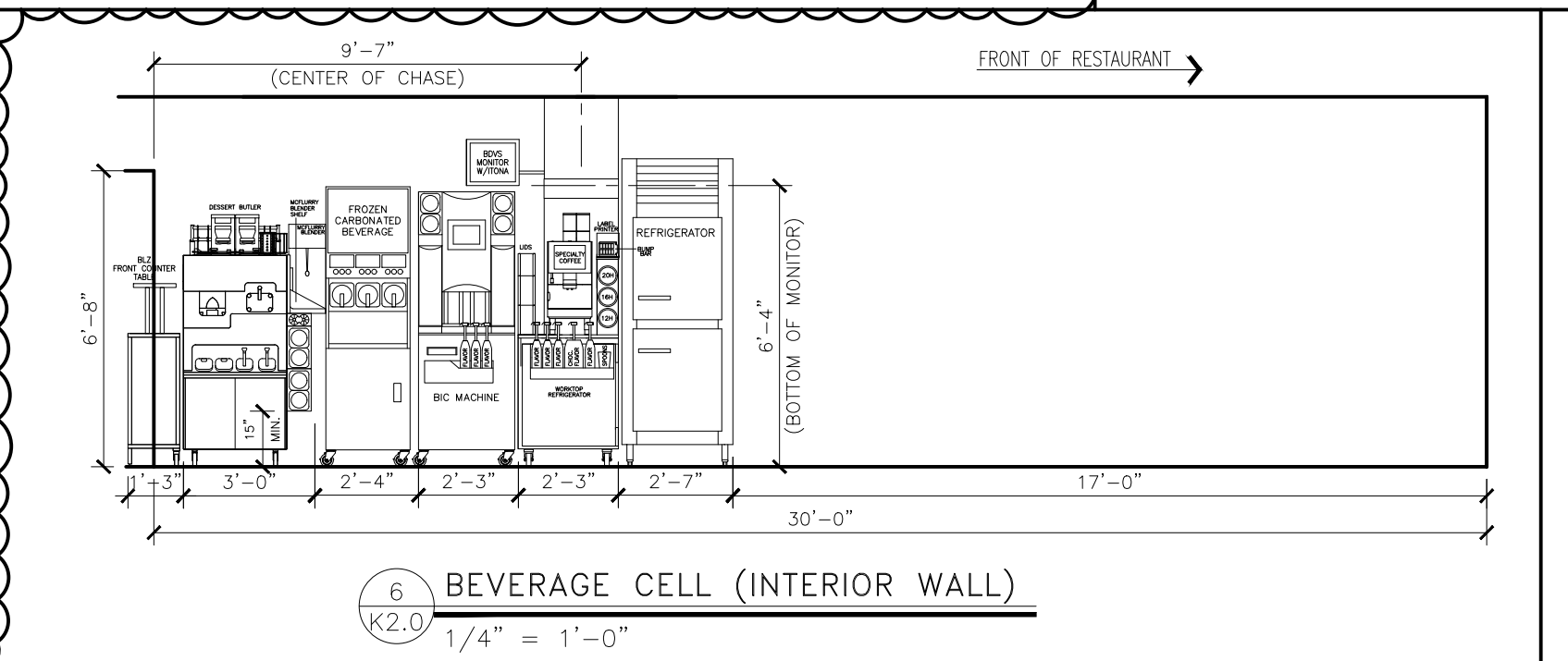
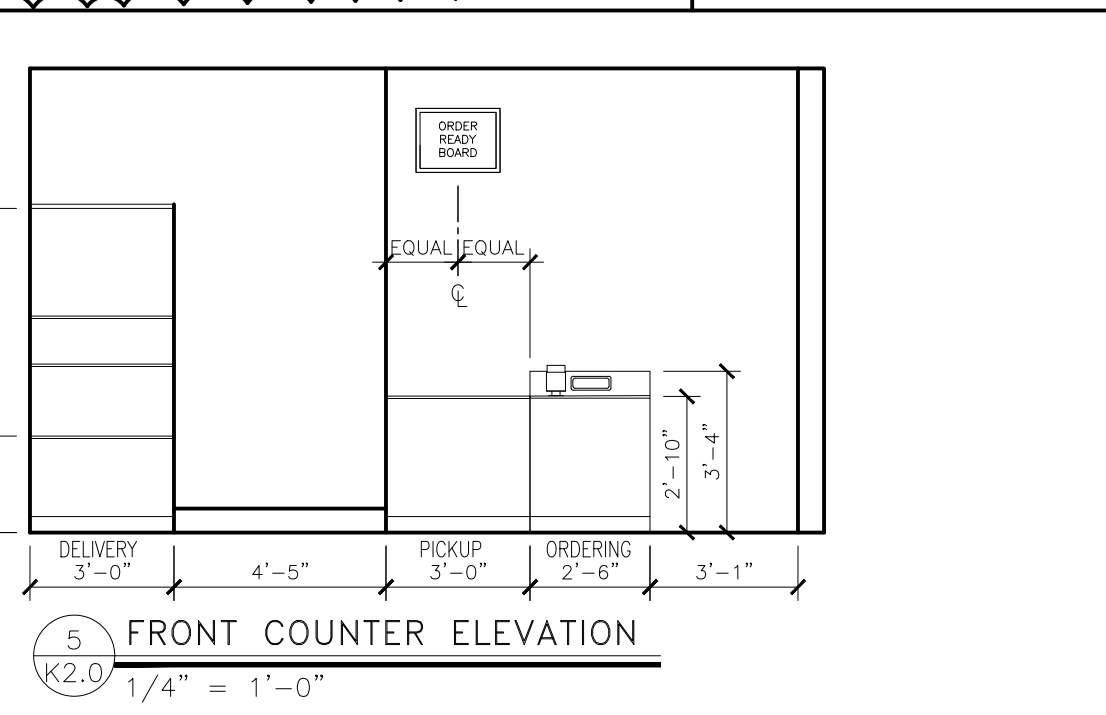
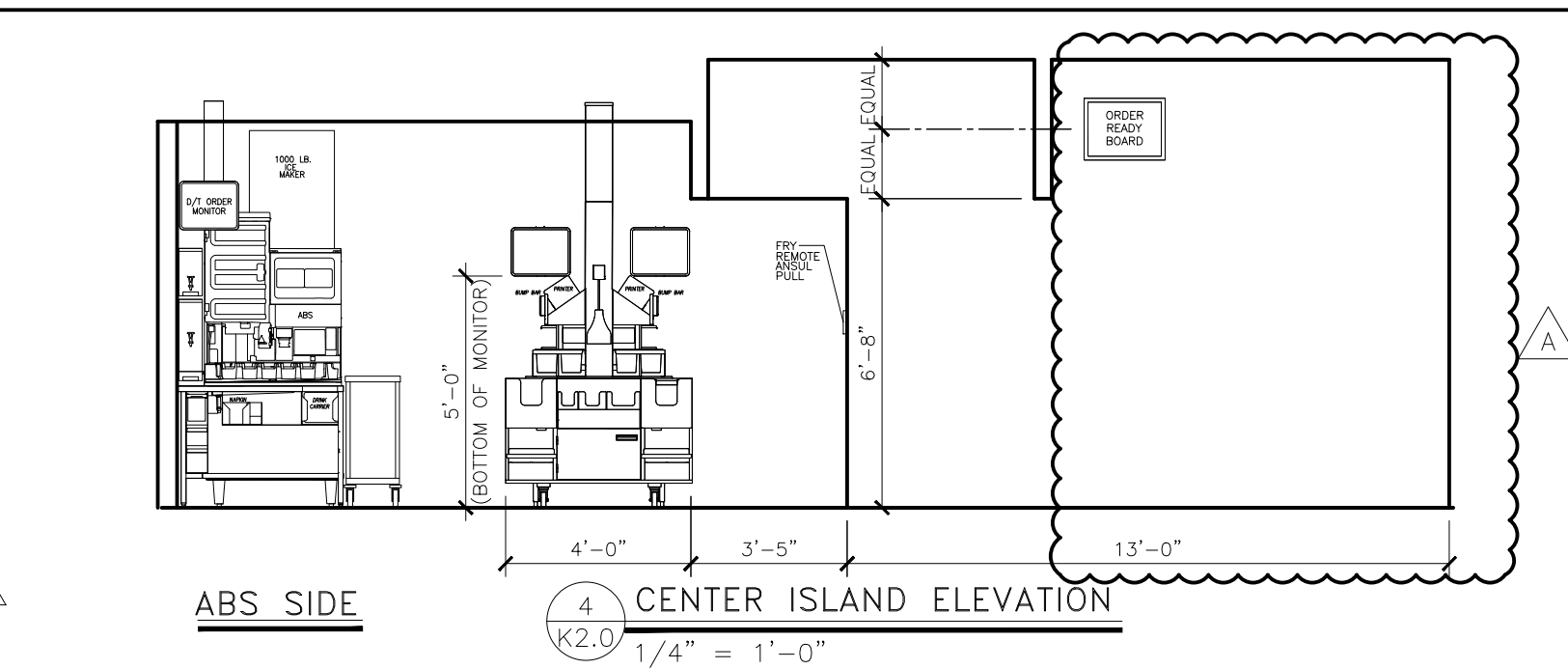
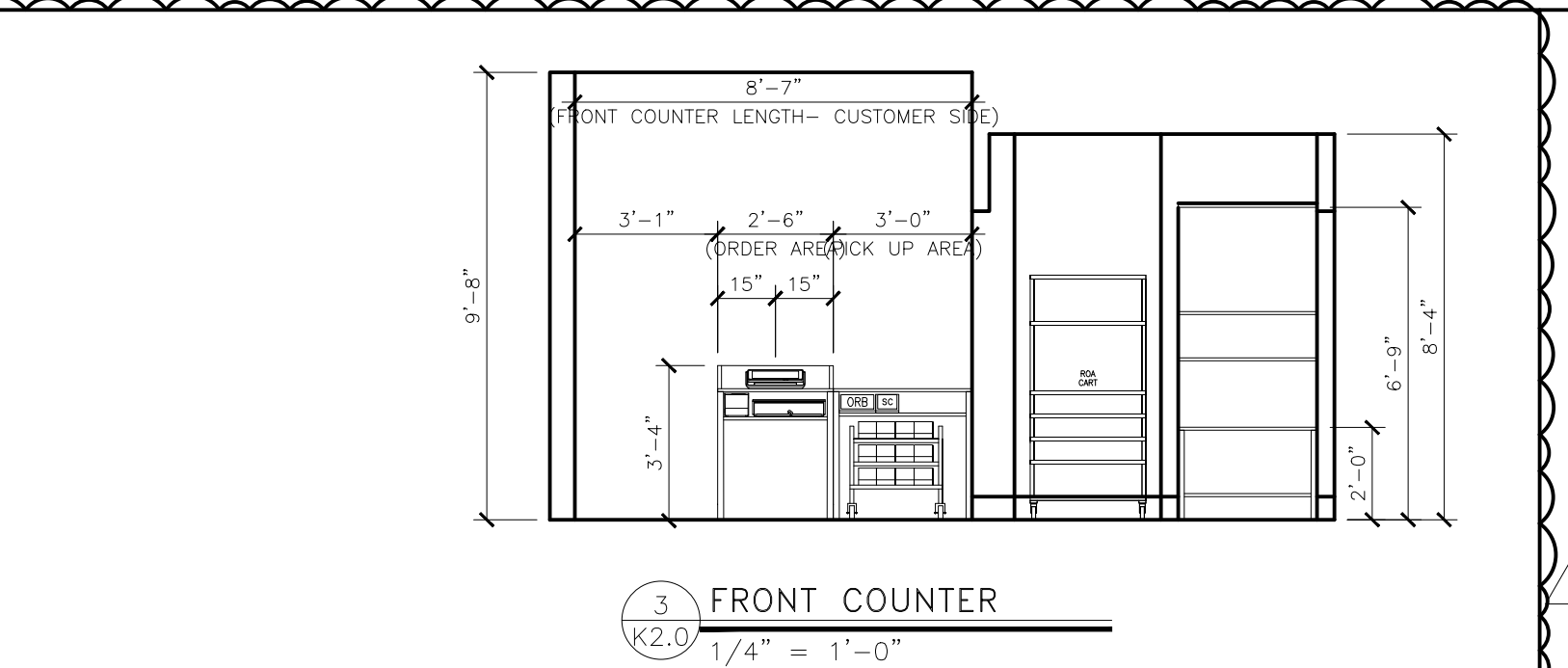
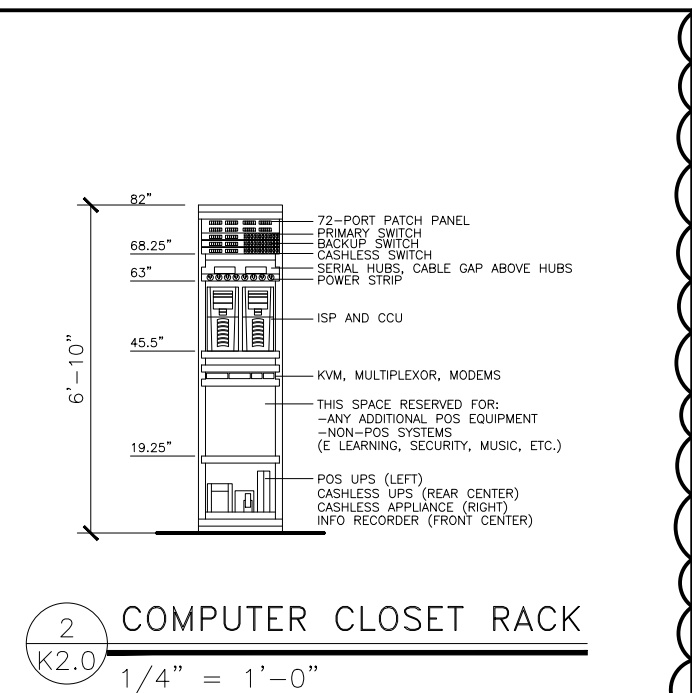


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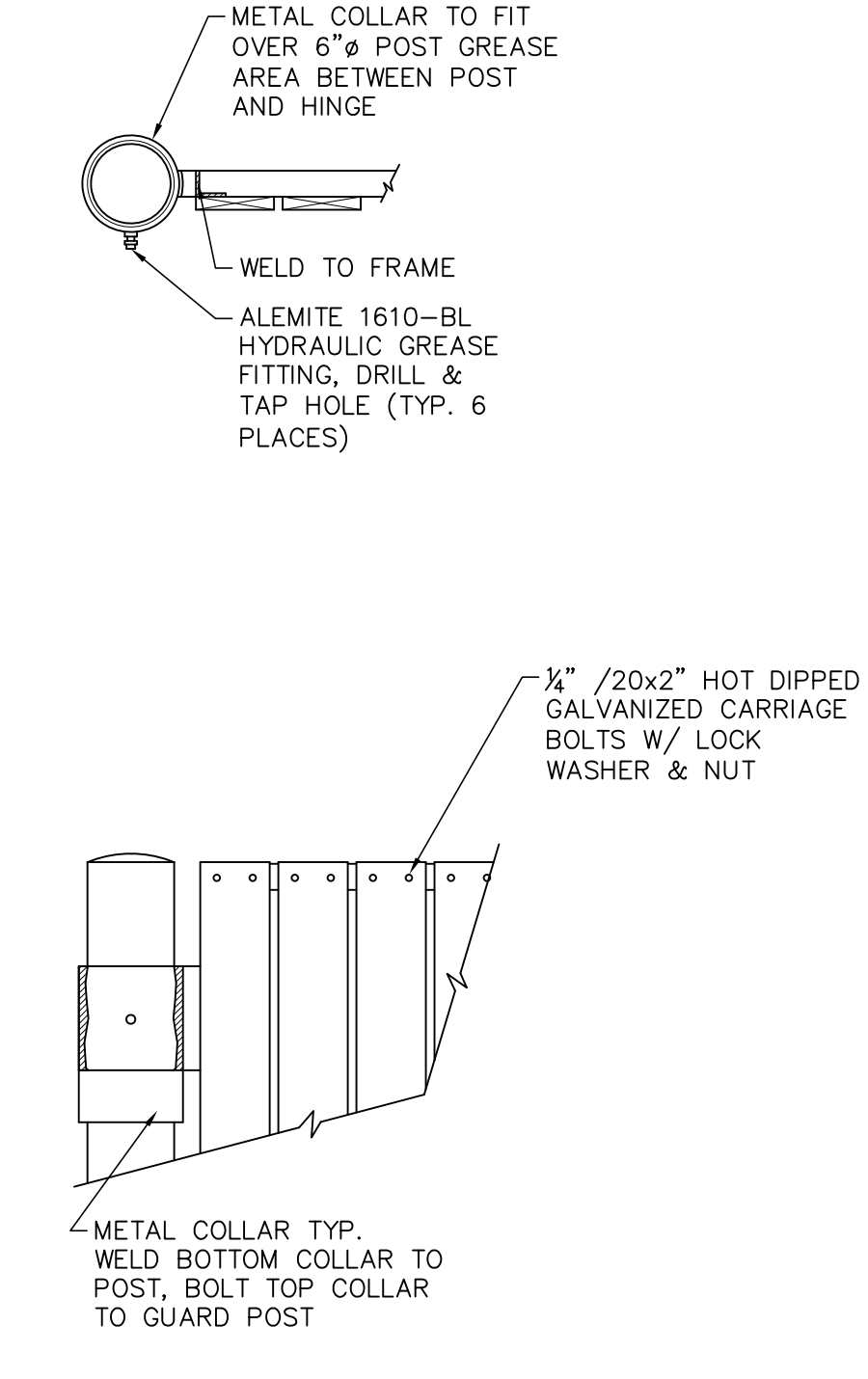
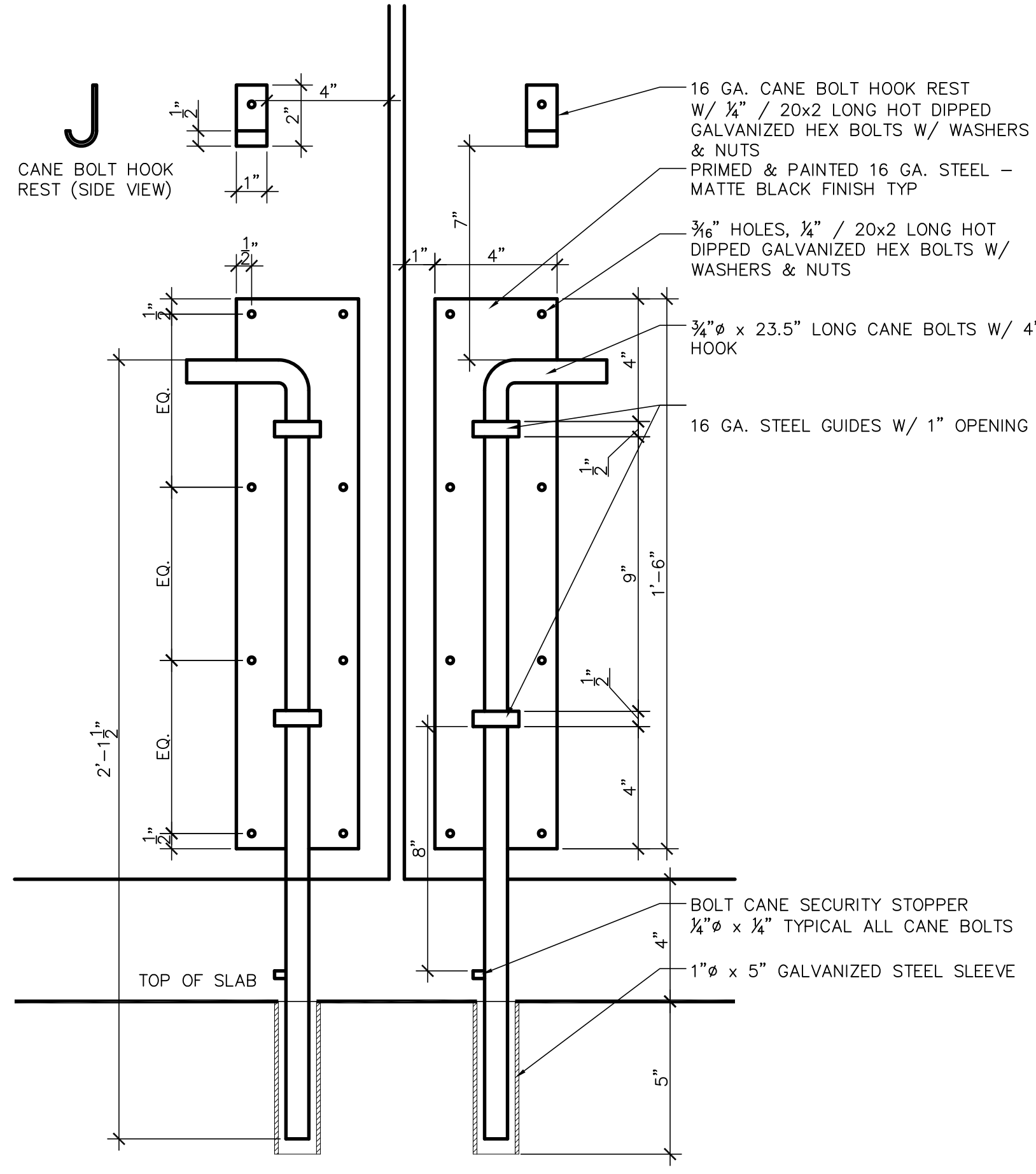
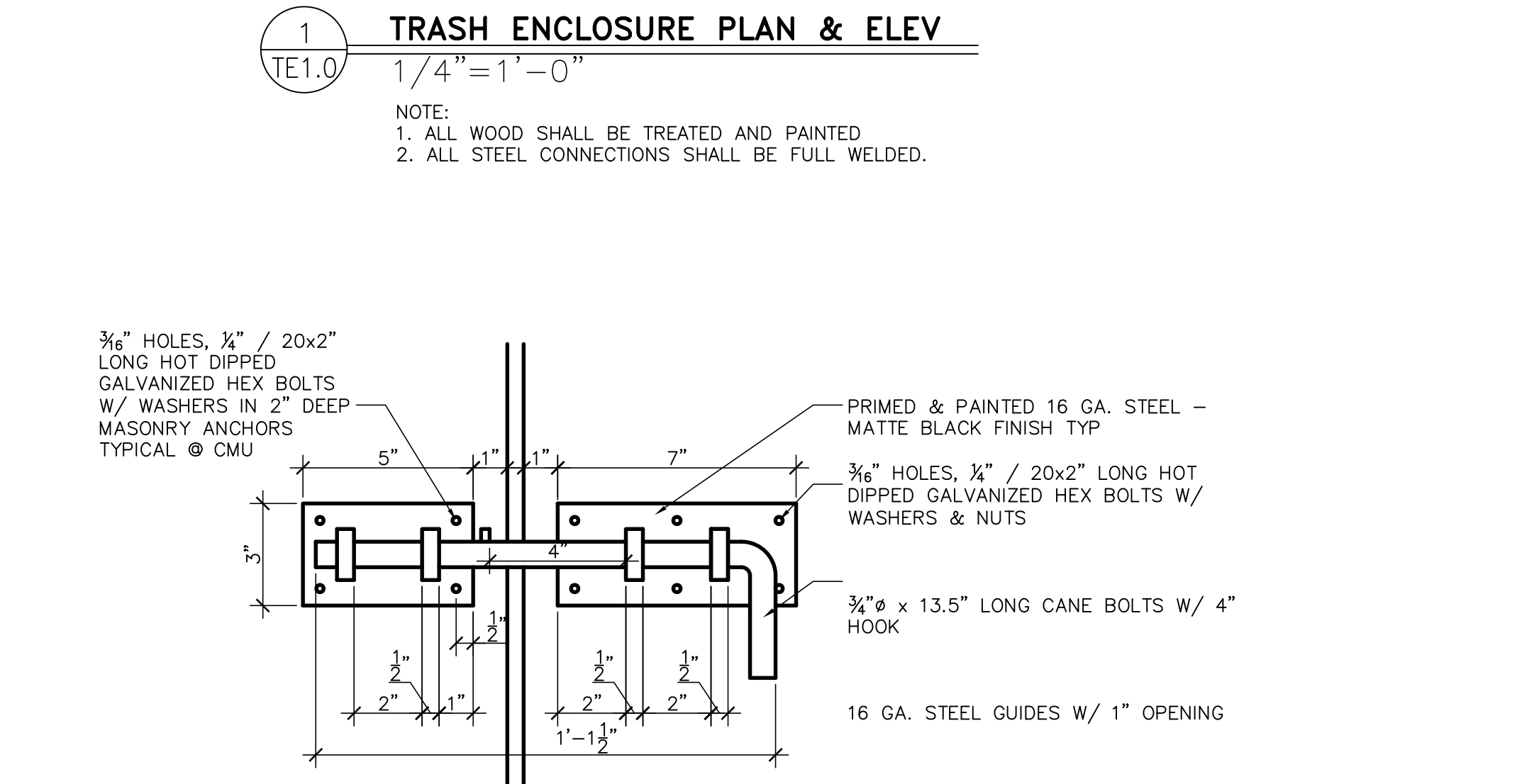
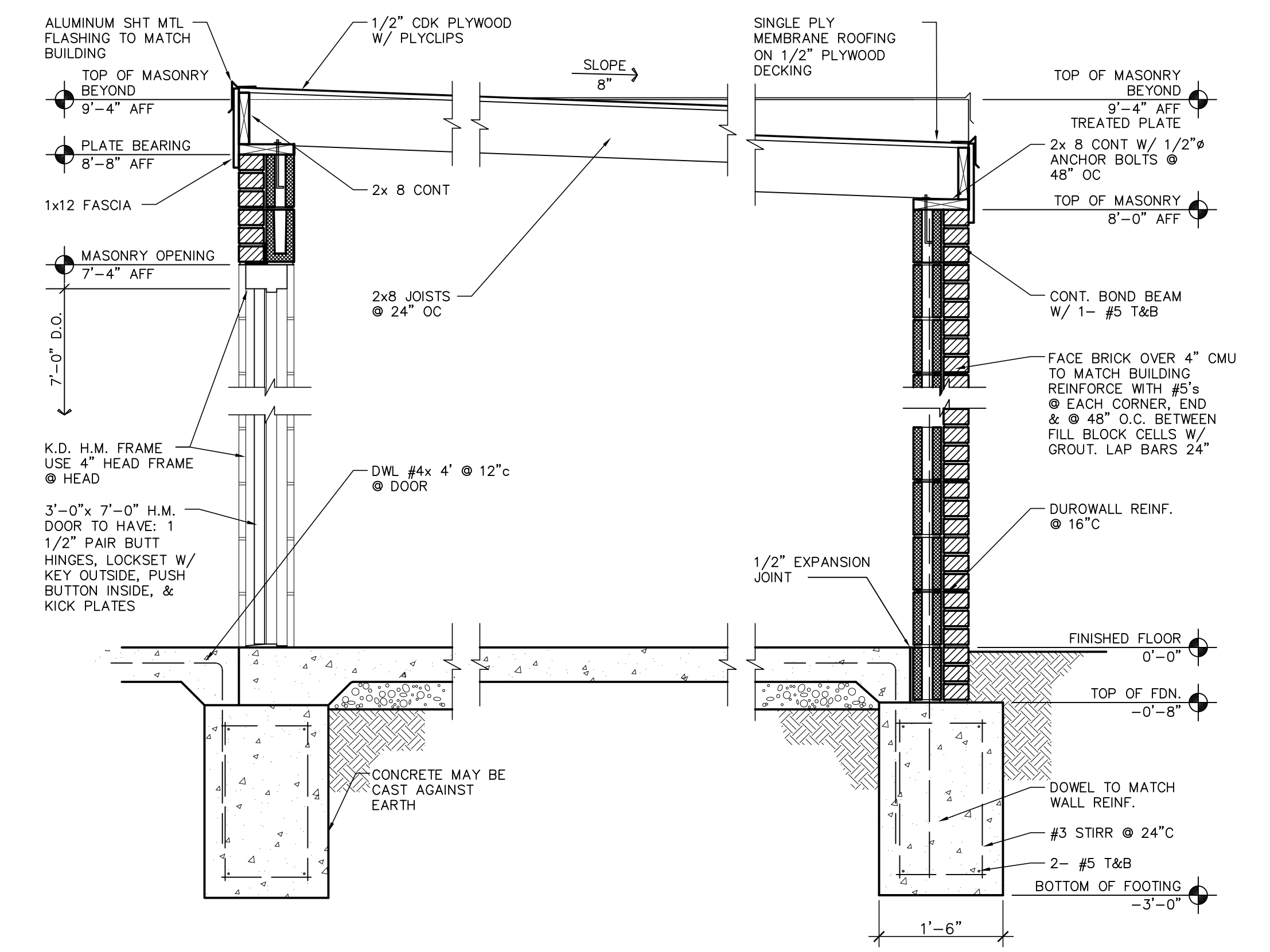
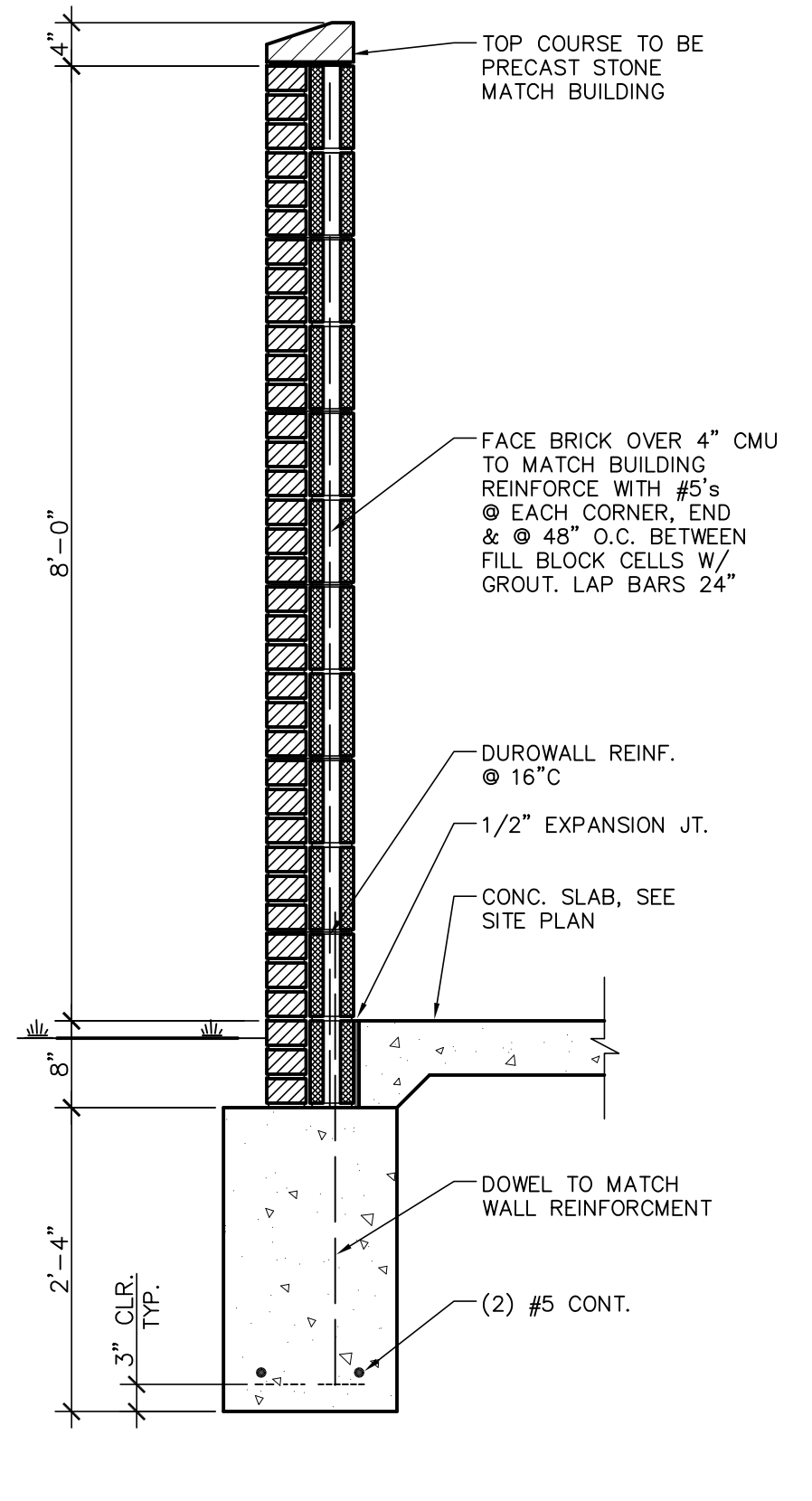
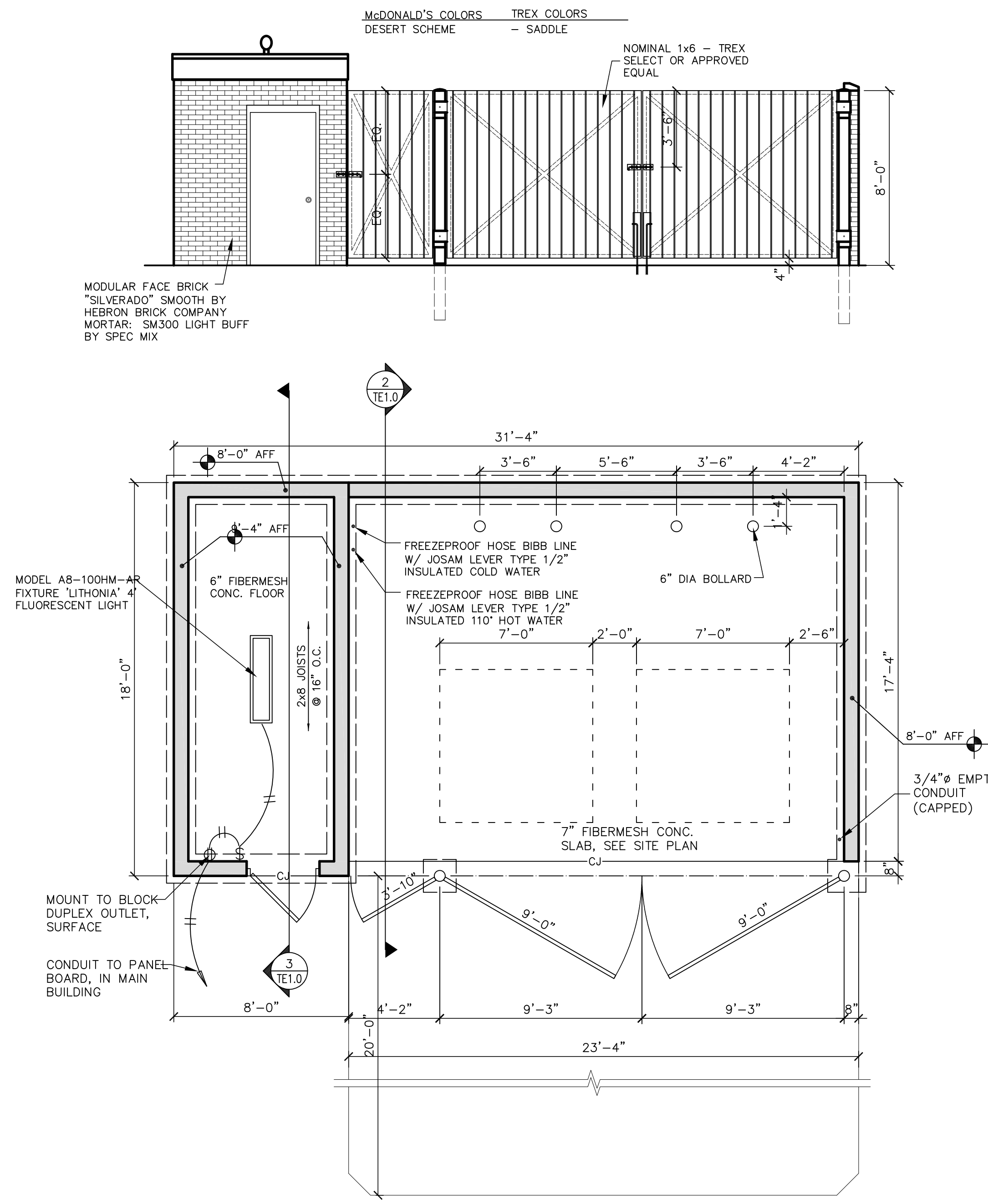
KITCHEN EQUIPMENT PLAN

1/4" = 1'-0"



	<p>CORE STATES GROUP</p> <p>2021.348.0001 Baltimore, MD 21212 www.corestates.com</p>	<p>PREPARED FOR: McDonald's USA, LLC</p> <p>PREPARED BY: TFF</p> <p>STD ISSUE DATE: 2022_08</p> <p>REVIEWED BY: R.K.</p> <p>DATE ISSUED: 10-21-2022</p> <p>TITLE: 2022 STANDARD BUILDING - BB20 45114-WOOD/WOOD</p> <p>DESCRIPTION: WOOD BEARING WALLS W/HARDBOARD SIDING WOOD ROOF TRUSS FRAMING EFS/BATTEN/ADM PANEL/HARDBOARD SIDING</p> <p>SHEET NO. K2.0</p> <p>KITCHEN PLAN</p>	<p>2021 McDonald's USA, LLC</p> <p>© 2021 McDonald's USA, LLC</p> <p>These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced without written authorization. The contract documents were prepared by McDonald's USA, LLC and shall not be used on any other project. Use of these drawings for reference or example on another project requires the written consent of McDonald's USA, LLC. The contract documents for the project are not authorized for use on another project.</p>	<p>DATE: 8/25/23</p> <p>REV: A</p> <p>DESCRIPTION: ESE UPDATE</p> <p>BY: [Blank]</p>
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EQUIPMENT SCHEDULE										EQUIPMENT SCHEDULE									
ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL #	UL	NSF	FURNISHED	GENERAL REMARKS	SPECIAL REQUIREMENTS	ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL #	UL	NSF	FURNISHED	GENERAL REMARKS	SPECIAL REQUIREMENTS
1.40	1	SERVICE FOOD	DECOR	SEE PLAN	-	2	GC	-	-	188.00	14	DUNNAGE RACK 22" x 36"	INTERMETRO	HP2236PD	-	2	KES	-	-
1.41	1	SKRUB POT	DECOR	SEE PLAN	-	2	GC	-	-	188.07	1	UNIVERSAL STAGING CART	ISS SHELVING	WS11364Y	-	2	KES	-	-
1.63	1	MODELIVERY PICKUP COUNTER	DECOR	SEE PLAN	-	2	GC	-	-	188.08	4	DUNNAGE RACK 22" x 30"	INTERMETRO	HP2230PD	-	2	KES	-	-
2.05	1	UNDER COUNTER CART - 24" W x 18" D FRONT COUNTER	INTERMETRO	UC18-DMS	-	2	KES	-	-	189.65	1	COOLER SHELVING 18" x 36" x 74" H. - 4-TIER	ISS SHELVING	FSMS/FSMA741836E	-	2	KES	-	-
4.20	1	MENUBOARD - DIGITAL	LG	49SH7DB	-	2	AT&I	-	-	189.71	1	COOLER SHELVING 24" x 36" x 74" H. - 4-TIER	ISS SHELVING	FSMS/FSMA742436E	-	2	KES	-	-
9.06	2	UTILITY CHASE - ICE MAKER DR ABS VERSION	KES	20"x5"x23"	-	2	KES	CONCEALS WATER AND CONDENSING UNIT LINES	-	189.73	2	COOLER SHELVING 24" x 48" x 74" H. - 4-TIER	ISS SHELVING	FSMS/FSMA742448E	-	2	KES	-	-
9.15	1	UTILITY CHASE - FFOT INTERIOR WALL	KES	20"x5"x76"	-	2	KES	4 SECTION CHASE FOR BUYOUT RECEPTACLES, POS, CO2 AND WATER	-	189.74	1	COOLER SHELVING 24" x 54" x 74" H. - 4-TIER	ISS SHELVING	FSMS/FSMA742454E	-	2	KES	-	-
9.16	1	UTILITY CHASE - FFOT EXTERIOR WALL	KES	20"x5"x76"	-	2	KES	4 SECTION CHASE FOR BUYOUT RECEPTACLES, POS AND WATER	-	189.75	2	COOLER SHELVING 24" x 60" x 74" H. - 4-TIER	ISS SHELVING	FSMS/FSMA742460E	-	2	KES	-	-
9.18	2	UTILITY CHASE - WALL VERSION	KES	4"x4"x82"	-	2	KES	CHASE FOR BULK OIL LINES, MOUNT AT 2'-0"	-	191.00	3	VALANCE SHELVING - 18" x 36"	INTERMETRO	M1836C-MP	-	2	KES	MOUNT AT 6'-8" AFF TO SHELF BOTTOM UNLESS OTHERWISE NOTED	-
9.20	1	UTILITY CHASE - COMBI CELL	KES	4"x8"x84"	-	2	KES	CHASE FOR BUYOUT RECEPTACLES AND WATER	-	191.01	2	VALANCE SHELVING - 18" x 48"	INTERMETRO	M1848C-MP	-	2	KES	MOUNT AT 6'-8" AFF TO SHELF BOTTOM UNLESS OTHERWISE NOTED	-
19.00	1	DIGITAL ASSEMBLY CART - 48"	INTERMETRO	MCDAC-48	-	2	KES	-	-	191.02	5	VALANCE SHELVING - 18" x 60"	INTERMETRO	M1860C-MP	-	2	KES	MOUNT AT 6'-8" AFF TO SHELF BOTTOM UNLESS OTHERWISE NOTED	-
19.04	1	ROA STAGING CART - 24" X 30"	INTERMETRO	MCDROA-2430	-	2	KES	-	-	191.03	1	VALANCE SHELVING - 18" x 30"	INTERMETRO	M1830C-MP	-	2	KES	MOUNT AT 5'-0" AFF TO SHELF BOTTOM FOR ABOVE WASHER APPLICATION	-
20.01	2	AUTOMATED BEVERAGE SYSTEM 2.0	IMI CORNELIUS	621058590LON	-	-	KES	INSTALLATION KIT INCLUDES STAINLESS STEEL CHASE & DATA LINE	-	191.04	1	VALANCE SHELVING - 18" x 36"	INTERMETRO	M1836C-MP	-	2	KES	MOUNT AT 5'-0" AFF TO SHELF BOTTOM - W/ST STL LINER FOR SALAD EQUIP	-
21.01	3	COFFEE BREWER (THERMAL POTS)	BUNN-O- MATIC	AXIOM-DV-3	E32066	4	KES	W/ELECTRONIC CONTROLLER FOR CONVERSION TO LOW OR HIGH VOLTAGE	-	194.32	3	DRY SHELVING 26" x 52" x 84" H. - 4-TIER - MOBILE	DENSTOR	-	-	2	KES	-	-
23.10	1	ESPRESSO BREWER	FRANKE	FM850	-	4	KES	-	-	194.33	3	DRY SHELVING 26" x 64" x 84" H. - 4-TIER - MOBILE	DENSTOR	-	-	2	KES	-	-
23.12	1	COFFEE CREAM DISPENSER	SURESHOT	AC110-PC-51	E217698	20	KES	-	-	194.47	2	DRY SHELVING 26" x 52" x 84" H. - 4-TIER - FIXED	DENSTOR	-	-	2	KES	-	-
23.14	1	SUCTION/SWEETENER DISPENSER	SURESHOT	AC2-GR-30	E217698	18	KES	-	-	194.48	1	DRY SHELVING 26" x 64" x 84" H. - 4-TIER - FIXED	DENSTOR	-	-	2	KES	-	-
24.02	1	JUICE DISPENSER	BUNN-O- MATIC	JDF-25	-	18	KES	-	-	195.32	2	DRY SHELVING 26" x 52" x 84" H. - 5-TIER - MOBILE	DENSTOR	-	-	2	KES	-	-
25.01	3	SLIMLINE ICED BEVERAGE DISPENSER	BUNN-O- MATIC	TD0-N	E32066	4	KES	KES TO VERIFY EXACT QUANTITY PER MARKET	-	195.33	2	DRY SHELVING 26" x 64" x 84" H. - 5-TIER - MOBILE	DENSTOR	-	-	2	KES	-	-
25.06	3	SLIMLINE ICED BEVERAGE DISPENSER - SHORT	BUNN-O- MATIC	TD0-N LP	E32066	4	KES	KES TO VERIFY EXACT QUANTITY PER MARKET	-	195.62	1	DRY SHELVING 20" x 52" x 84" H. - 5-TIER - FIXED	DENSTOR	-	-	2	KES	-	-
25.07	1	INFUSION TEA BREWER - MIS	BUNN-O- MATIC	ITCB-DV	E32066	4	KES	PROVIDED WITH BREWER, INSTALLATION KIT AND TD0-N BOOSTER	-	195.63	1	DRY SHELVING 20" x 64" x 84" H. - 5-TIER - FIXED	DENSTOR	-	-	2	KES	-	-
25.95	2	SLIMLINE ICED BEVERAGE DISPENSER - 2 TIER STAND	KES	-	-	2	KES	-	-	196.06	1	SAFE - STANDARD BLDG. - LEFT HINGE	NKL	BS04125FGXL-MC	-	-	OWNER	REFER TO PLUMB. DWGS. FOR DETAILS, SOAP & TOWEL DISP. BY OTHERS	PROVIDE SIDE SPLASHES (7-PS-11) WHEN REQUIRED BY LOCAL CODE
26.00	1	TEA BREWER TABLE - 30"x36"	ISS SHELVING	WS1756C	-	2	KES	-	-	197.00	2	STAINLESS STEEL HAND SINK	ADVANCE TABCO	7-PS-61	-	2	GC	REFER TO PLUMB. DWGS. FOR DETAILS, SOAP & TOWEL DISP. BY OTHERS	PROVIDE SIDE SPLASHES (7-PS-11) WHEN REQUIRED BY LOCAL CODE
31.03	1	SODA SYSTEM PACKAGE B.I.B.(RECIRCULATING- 3 TOWERS) - REMOTE	MULTIPLEX	560GR4	E121876	18	KES	-	-	197.01	1	HAND WASH TIMER	NATIONAL CONTROLS	TMD-11715-120	E53595	-	KES	-	-
32.02	1	REVERSE OSMOSIS WATER FILTRATION SYSTEM - TANKLESS	EVERPURE	ENVI-R0-600	-	-	KES	FOR COFFEE MAKER, ESPRESSO MACHINE, AND RAPID BUN STEAMER	-	197.03	2	STAINLESS STEEL HAND SINK - ADA	ADVANCE TABCO	7-PS-26	-	2	GC	REFER TO PLUMB. DWGS. FOR DETAILS, SOAP & TOWEL DISP. BY OTHERS	PROVIDE SIDE SPLASHES (7-PS-11) WHEN REQUIRED BY LOCAL CODE
32.04	1	WATER FILTRATION SYSTEM	EVERPURE	EV9337-26	-	-	KES	-	-	201.13	1	DRIVE-THRU CASH STAND - 21" D x 48" W	INTERMETRO	DT48-8	-	2	KES	SOLID WORK TOP, WIRE SHELVES	-
32.05	1	WATER FILTRATION SYSTEM	EVERPURE	EV9272-24	-	-	KES	FOR COMBI OVENS AND STAGING CABINET	-	201.15	1	READY NEXT DRIVE-THRU ASSEMBLY CART - 12" D x 36" W	INTERMETRO	DTPC-36	-	2	KES	-	-
36.00	2	BULK COKE	CHART INDUSTRIES	10667511	-	18	MANU-FACTURER	SYRUP LINES BY CHART INDUSTRIES	-	201.16	2	DRIVE-THRU ABS CART	KES	-	-	2	KES	ABS DRINK STAGING CART WITH TROUGH	-
37.00	1	BULK CO2 - 750 LB.	CHART INDUSTRIES	CARBO-MAX 750	-	-	MANU-FACTURER	-	-	201.18	1	BLZ FRONT COUNTER TABLE - 30" D x 14" W	INTERMETRO	MCD1430-BLZM	-	2	KES	W/ CASTERS AND OVERSHELF	-
37.03	2	CO2 SAFETY SYSTEM	SEE RMKS	-	-	-	KES	SEE MECHANICAL DRAWINGS	INCLUDES DETECTOR AND (4) AV ALARMS	203.01	1	HEAT TREAT COMBINATION SHAKE/SUNDAE MACHINE	CARRIGIANNI	K3	SA4203	6	KES	SUPPLIED WITH CONE DISPENSER AND 7'-6" LONG CORD	-
38.00	1	CLEAN IN PLACE PANEL	CHART INDUSTRIES	10667431	-	18	MANU-FACTURER	MOUNT 6"W x 7"H. BOX @ 6'-0" AFF TO BOX CENTER LINE	-	203.03	1	CUP/CONE DISPENSER	KES	-	-	2	KES	-	-
39.10	1	ICE MACHINE - 1400 LB.	MANITOWOC	IY1494N3/ B970	SA4027	12	KES	USE HEADMASTER KIT K00221	-	205.08	1	BIC MACHINE	MULTIFLEX	MA-8-2	SA12070	6	KES	-	-
39.15	2	ICE MACHINE - 1000 LB.	MANITOWOC	IB1094YC	SA4027	12	KES	CONDENSER: ICVD-1195-263	-	205.09	1	FROZEN BEVERAGE DISPENSER	IMI CORNELIUS	VIPER-3	SA2128	6	KES	-	-
40.00	1	ICE MACHINE CHASE	KES	4"x6"x48"	-	2	KES	CONCEALS WATER AND CONDENSING UNIT LINES	-	206.01	1	SPECIALTY BEVERAGE STANDOFF SHELF	KES	-	-	2	KES	MOUNT SHELF @ 2'-6" AFF	-
41.06	1	ICE MACHINE REMOTE CONDENSER - 1400 LB.	MANITOWOC	JC-1395	SA4027	12	KES	-	-	207.09	1	DESSERT BUTLER	KES	-	-	2	KES	-	-
41.09	2	ICE MACHINE REMOTE CONDENSER - 1000 LB.	MANITOWOC	ICVD-1195-263	SA4027	12	KES	-	-	211.00	1	DELIVERY TABLET	APPLE	IFAD	-	-	DELIVERY PARTNER	QUANTITY DEPENDENT UPON NUMBER OF DELIVERY PARTNERS	-
43.21	1	OPTIMIZED ORDER ASSEMBLY TABLE	KES	90001	E152097	2	KES	-	-	213.00	1	TABLE LOCATOR SYSTEM	LR5	TRACKER PRO	-	-	OWNER	SEE EXACT LOCATION FOR NETWORK RACK	-
44.45	1	MEDIUM RISER SHELF - 31" TO 43"	KES	-	-	2	KES	-	-	215.00	1	IPDS REGISTER - FRONT COUNTER	BY OWNER	BY OWNER	DEM	-	OWNER	INCLUDES MONITOR AND CPU	-
45.01	1	BEVERAGE CABINET - 36" WIDE	KES	BV36-4	-	2	KES	FIELD CUT ON BEVERAGE CABINET BY KES INSTALLER	-	215.02	4	POS REGISTER - 2 WINDOW D/I	BY OWNER	BY OWNER	DEM	-	OWNER	INCLUDES MONITOR AND CPU	-
45.20	1	MODULAR BEVERAGE CABINET - 10'-0"	KES	-	-	2	KES	-	-	216.00	6	POS - KVS MONITOR	BY OWNER	BY OWNER	DEM	-	OWNER	SUPPORTS INSTALLED BY GC IF REQUIRED - MOUNT @ 5'-8" AFF	FOR APPLICATIONS ABOVE ABS, MOUNT AT 6'-6" AFF
46.00	1	CUP DISPENSER VERTICAL 3 CUP	KES	-	-	2	KES	-	-	216.04	1	ORB MINI MONITOR	BY OWNER	BY OWNER	DEM	-	OWNER	UNDER COUNTER BRACKET BY POS SUPPLIER	-
46.02	1	SYRUP BOTTLE RACK - (5) SYRUP PUMPS	PRONTO	-	-	2	KES	-	-	216.05	1	ORB MONITOR	BY OWNER	BY OWNER	DEM	-	OWNER	MOUNTING KIT PROVIDED BY KES	-
47.06	1	CHILLED RAIL	KES	-	-	7	KES	LOCATED UNDER PREP TABLE OVERSHELF	-	216.06	1	ORB SCANNER	BY OWNER	BY OWNER	DEM	-	OWNER	UNDER COUNTER BRACKET BY POS SUPPLIER	-
49.00	1	CO2 FILL BOX - 6 1/2" W x 18" H	CHART INDUSTRIES	8512629	-	-	MANU-FACTURER	SEE EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT, INSTALLED BY GC	-	217.13	3	MERGE POINT MONITOR (DOUBLE DRIVE-THRU)	BY OWNER	BY OWNER	DEM	-	OWNER	MONITORS ARE REQUIRED FOR SIDE BY SIDE DRIVE THRU SYSTEM	-
51.03	3	CUP LID HOLDER 3 HIGH S/S	KES	-	-	2	KES	-	-	217.14	1	POS - ORDER MONITOR (DOUBLE DRIVE THRU)	BY OWNER	BY OWNER	DEM	-	OWNER	SUPPORTS INSTALLED BY GC IF REQUIRED - MOUNT @ 5'-8" AFF	-
51.04	2	CUP LID HOLDER SINGLE STACK 8" HIGH	KES	-	-	2	KES	-	-	217.24	1	DANGER POINT MONITOR (DOUBLE DRIVE-THRU)	BY OWNER	BY OWNER	DEM	-	OWNER	MONITORS ARE REQUIRED FOR SIDE BY SIDE DRIVE THRU SYSTEM	-
61.00	1	FRY BAGGING STATION 36"	KES	FB01-4	E99018	2	KES	-	-	217.26	1	200M TIMER	HME	200M-TMR	-	-	OWNER	OWNER	-
66.40	1	4-VAT LOV FRYER - ELECTRIC - F/F/F/F	HENNY PENNY	LVE-204	E30993	4	KES	-	-	219.00	1	POS - RECEIPT PRINTER	BY OWNER	BY OWNER	DEM	-	OWNER	OWNER	-
66.47	1	4-VAT LOV FRYER - ELECTRIC - S/S/S/S	HENNY PENNY	LVE-204	E30993	4	KES	-	-	219.06	1	STOCK LABEL PRINTER	BY OWNER	BY OWNER	DEM	-	OWNER	OWNER	-
69.00	2	CAPTURE JET PLENUM - FRYER	HALTON	CJP-F	MH27607	2	KES	ATTACH TO UNIVERSAL EXHAUST HOOD	-	219.06	1	LABELING SYSTEM	TRANSACT	9700	-	-	KES	-	-
69.01	2	CAPTURE JET PLENUM - GRILL	HALTON	CJP-G	MH27607	2	KES	ATTACH TO UNIVERSAL EXHAUST HOOD	-	220.00	1	POS - COIN DISPENSER	BY OWNER	BY OWNER	DEM	-	OWNER	-	-
74.00	1	UNIVERSAL EXHAUST HOOD 4-VAT FRYER	KES	UH-65	MH12755	2	KES	-	-	221.01	1	POS - OFFICE	BY OWNER	BY OWNER	DEM	-	OWNER	-	-
79.23	1	UNIVERSAL EXHAUST HOOD FULL-CLAM/4-VAT FRYER	KES	UH-122	MH12755	2	KES	-	-	222.01	1	TIME CLOCK	BY OWNER	BY OWNER	DEM	-	OWNER	-	-
79.26	2	VENTLESS HOOD FOR COMBI OVEN	HALTON	COV	E325060	2	KES	-	-	223.07	1	WASHER - ELECTRIC	WHIRPOOL	CAE2793B0	-	-	KES	-	-
80.00	1	MECHANICAL CHASE	KES	9"x18" SGCL.	E163328	2	KES	-	-	225.03	1	OFFICE PACKAGE/DESK UNIT	DENSTOR	2000-0100	-	-	KES	WORK SURFACE 75", (1) DESK PEDESTAL W/ 2 DRAWERS AND (1) PEDESTAL W/ 3 DRAWERS	-
80.08	1	MECHANICAL CHASE	KES	9"x32" SGCL.	E163328	2	KES	-	-	225.04	1	OFFICE PACKAGE/ 2-WALL CABINETS	DENSTOR	2000-0200	-	-	KES	-	-
81.01	1	PRODUCT LANDING SHELF - SOLID TOP	KES	-	-	2	KES	-	-	225.05	1	OFFICE PACKAGE/HIGH WORK SURFACE	DENSTOR	2000-0300	-	-	KES	W/ (6) L-BRACKETS - WORK SURFACE IS 75" W. - CUT IN FIELD IF REQUIRED	-
82.01	1	LANDING TABLE WITH POWER	KES	-	-	2	KES	-	-	225.06	1	OFFICE PACKAGE W/3 DRAWER LATERAL FILE	DENSTOR	2000-0400	-	-	KES	-	-
85.05	1	FROZEN FRY DISPENSER	RAM	280-FP	E140753	4	KES	-	-	226.01	3	CREW LOCKERS - 12" x 18" x 72"H	DENSTOR	5-121878	-	2	KES	-	-
91.02	1	WALL MOUNT FREEZER UNIT-SINGLE WIDE-HIGH CAPACITY	KES	HCFW1	SA7329	7	KES	AIR-COOLED, SELF-CONTAINED - MOUNT BOTTOM AT 51" AFF	HCWF1.99A INSTALL HARDWARE KIT REQUIRED	237.00	1	PIE DISPLAY	PRINCE CASTLE	524-MCDD	E341354	4	KES	PROVIDE WITH S/S PANEL	-
93.00	1	UNIVERSAL EXHAUST HOOD FULL-CLAM GRILL	KES	UH-43	MH12755	2	KES	-	-	700.02	2	MOP SINK	GC	-	-	2	GC	-	-
96.21	2	36" NEXT GEN 3-PLATEN CLAMSHELL GRILL - ELECTRIC	GARLAND	ME-3PX	E28898														



TITLE	2022 STANDARD BUILDING - BB20	DATE	2022_08	REVIEWED BY	R.K.	DATE ISSUED	10-21-2022	SHEET NO.	TE1.0	DESCRIPTION	TRASH ENCLOSURE
DESCRIPTION	WOOD BEARING WALLS W/HARDBOARD SIDING WOOD ROOF TRUSS FRAMING EIFS/BATTEN/ADM PANEL/HARDBOARD SIDING										
SITE ID	024-1289										
SITE ADDRESS	1000 S Main Street, SALEM, MO										
PREPARED BY	Robert Kempkes A R C H I T E C T INDUSTRIAL BUILDING 1145 S. 10th Street, Phoenix, AZ 85006 PH: 602.251.1616 FAX: 602.251.1616										
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DRAWN BY	SO	STD ISSUE DATE	2022_08	REVIEWED BY	R.K.	DATE ISSUED	10-21-2022	SHEET NO.	TE1.0	DESCRIPTION	TRASH ENCLOSURE