

3. FURNISH AND INSTALL CORD AND PLUG SET(S).
2. INSTALL KEC (SECTION 114000) FURNISHED CORD AND PLUG SET(S).
3. FURNISH AND INSTALL DEVICE & COVER IN KEC (SECTION 114000) FURNISHED JUNCTION BOX.
4. CONNECT TO JUNCTION BOX, DEVICE, & COVER FURNISHED BY KEC (SECTION 114000).
5. CONNECT WITH LIQUID TIGHT CONDUIT FROM JUNCTION BOX TO EQUIPMENT/DEVICE(S) FOR A DIRECT CONNECTION.
6. CONNECT WITH LIQUID TIGHT CONDUIT FROM JUNCTION BOX THROUGH CONTROL TO EQUIPMENT/DEVICE(S) FOR A DIRECT CONNECTION.
7. CONNECT THRU DISPOSER CONTROL TO SOLENOID VALVE AND MOTOR.
8. CONNECT THRU KEC (SECTION 114000) FURNISHED REMOTE CONTROL SWITCH(ES).
9. FURNISH AND INSTALL SWITCH. CONNECT TO LIGHTS FURNISHED AND INSTALLED BY KEC (SECTION 114000).
10. CONNECT POWER SUPPLY TO KEC (SECTION 114000) FURNISHED LOAD CENTER. COUNTER SHALL BE PREWIRED AND SHIPPED IN SECTIONS. CONNECT BETWEEN SECTIONS.
11. CONNECT TO KEC (SECTION 114000) FURNISHED JUNCTION BOX AT WALK-IN DOOR ASSEMBLY. LIGHT FIXTURE AT DOOR IS PREWIRED TO FACTORY MOUNTED LIGHT SWITCH. MOUNT ADDITIONAL KEC (SECTION 114000) FURNISHED LIGHTS WHERE INDICATED AND CONNECT TO SWITCH. CONDUIT SHALL BE INSTALLED ABOVE WALK-IN AND NOT EXPOSED ON INTERIOR UNLESS REQ'D. CONDUIT PENETRATING WALK-IN SHALL BE NON-METALLIC OR PVC. .
12. FOAM & SEAL INSIDE AND OUTSIDE OF CONDUIT PENETRATIONS THRU WALK-IN.
13. CONNECT KEC (SECTION 114000) FURNISHED TEMPERATURE ALARM SYSTEM. COORDINATE WITH BUILDING SYSTEMS.
14. FURNISH AND INSTALL FUSED DISCONNECT AT CONDENSING UNIT.
15. INSTALL KEC (SECTION 114000) FURNISHED DEFROST TIMER. CONNECT THRU TIMER TO EVAPORATOR COIL.
16. CONNECT FROM KEC (SECTION 114000) FURNISHED CONDENSING UNIT, THRU DEFROST TIMER, TO EVAPORATOR COIL.
17. PROVIDE NEMA RECEPTACLE WITH WEATHER COVER BEHIND FREEZER EVAPORATOR COIL FOR DRAIN LINE HEATER.
18. CONNECT EXHAUST FAN THRU FAN CONTROL CONTACTS IN DISHWASHER.
19. CONNECT TABLE LIMIT SWITCH TO DRY CONTACT ON KEC (SECTION 114000) FURNISHED DISH MACHINE.
20. CONNECT DRAIN WATER TEMPERING DEVICE PER MANUFACTURER'S RECOMMENDATIONS.
21. CONNECT THRU KEC (SECTION 114000) FURNISHED LIGHT SWITCH MOUNTED IN FACE OF HOOD OR HOOD CONTROL CABINET TO LIGHT FIXTURES IN HOOD(S). INTERWIRE LIGHT FIXTURES BETWEEN HOOD SECTIONS AS REQUIRED.
22. CONNECT THRU KEC (SECTION 114000) FURNISHED FAN CONTROL SWITCH MOUNTED IN FACE OF HOOD OR HOOD CONTROL CABINET TO EXHAUST FAN(S)/MAKE-UP AIR UNIT(S). INTERWIRE THRU MOTOR STARTER(S)/VARIABLE FREQUENCY DRIVE(S) AND OVERLOAD PROTECTION DEVICE(S) AS REQUIRED. INSTALL AND/OR INTERWIRE THE KEC (SECTION 114000) FURNISHED HOOD HEAT SENSOR(S) AND SMOKE SENSORS AS REQUIRED.
23. CONNECT 120 VOLT FROM KEC (SECTION 114000) FURNISHED MICRO SWITCH IN FIRE SUPPRESSION SYSTEM CONTROL PANEL TO SHUNT TRIP BREAKER(S) FOR SHUT DOWN OF POWER TO ALL ELECTRICAL DEVICES UNDER HOOD(S) AND 18" OUTSIDE PERIMETER OF HOOD(S). CONNECT FROM MICRO SWITCH TO DIVISION 26 FURNISHED RELAY(S) OR SWITCHES FOR SHUT DOWN/CONTROL OF HOOD LIGHTS, MAKE-UP AIR FAN, AND FIRE ALARM SYSTEM. EC IS RESPONSIBLE FOR ANY REQUIRED INTERWIRING/CONTROL WIRES FOR THE FIRE SUPPRESSION SYSTEM AND ASSOCIATED ELECTRICAL GAS SOLENOID VALVES.
24. CONNECT 120 VOLT FROM KEC (SECTION 114000) FURNISHED MICRO SWITCH IN FIRE SUPPRESSION SYSTEM CONTROL PANEL THRU MANUAL RESET RELAY TO ELECTRIC GAS VALVE. PROVIDE CONTROL/INTERWIRING BETWEEN THE FIRE SUPPRESSION SYSTEM AND ASSOCIATED ELECTRICAL GAS SOLENOID VALVES, RESET RELAYS, AND PULL STATIONS AS REQ'D.
25. PROVIDE CONCEALED CONDUIT AND RECESSED OCTAGONAL JUNCTION BOX IN WALL AT 42"-48" AFF FOR REMOTE MANUAL PULL STATION(S). COORDINATE LOCATION(S) WITH FIRE SUPPRESSION SYSTEM CONTRACTOR AND AUTHORITIES HAVING JURISDICTION PRIOR TO ROUGH-IN.
26. VERIFY UTILITIES FOR EXISTING/NIC EQUIPMENT AND PROVIDE FOR AS REQ'D.
27. INSTALL 3/4" EMPTY CONDUIT AND JUNCTION BOX FOR DATA CONNECTION. VERIFY EXIST REQUIREMENTS AND TERMINATION POINTS PRIOR TO ROUGH-IN.
28. PROVIDE AND INSTALL AN APPROVED GFCI RECEPTACLE.

NOTES:

1. REFER TO MECHANICAL PLANS AND SCHEDULES PRIOR TO ROUGH-IN.
2. ALL STARTERS SHALL BE COMBINATION STARTER/DISCONNECTS U.N.O.
3. ALL DISCONNECTS/STARTERS SHALL BE LOCATED WITHIN 8' OF THE EQUIPMENT SERVED, AT A LOCATION APPROVED BY THE ARCHITECT U.N.O.
4. ALL EXTERIOR STARTER/DISCONNECTS SHALL BE IN NEMA 3R ENCLOSURES U.N.O.
5. ALL CIRCUIT BREAKERS SERVING MULTIMOTOR MECHANICAL EQUIPMENT SHALL BE HACR RATED.
6. PROVIDE 3" EMPTY CONDUIT AND BACKBOX AT T-SLOT OR SENSOR WITH CONDUIT ROUTED BACK TO UNIT SERVED FOR USE BY T.C.C.

1. PROVIDE ALL REQUIREMENTS WITH LOCAL UTILITY.
2. COORDINATE ARC FLASH HAZARD WARNING LABELS PER IEEE 1559A AND NFPA 70E (2015) TO INDICATE APPROXIMATE BOUNDARY, INCIDENT ENERGY AVAILABLE, PPE REQUIREMENTS, ETC. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION FROM THE UTILITY AND CALCULATING AVAILABLE FAULT CURRENT/ARC FLASH AT ALL POINTS OF ELECTRICAL DISTRIBUTION.
3. ALL EXTERIOR EQUIPMENT SHALL BE NEMA 3R RATED.
4. MAINTAIN ALL REQUIRED SERVICE CLEARANCES IN FRONT OF ELECTRICAL EQUIPMENT.
5. ALL FEEDERS SHALL BE COPPER. ALUMINUM CONDUCTORS ARE STRICTLY PROHIBITED.
6. MAIN BUILDING GROUND SYSTEM. PROVIDE CONNECTION TO INCOMING SIDE OF WATER SERVICE (UPPER FOUR FEET), SUPPLEMENTARY GROUND ROD (5/8" x 10'-0") CONNECTION TO BUILDING STEEL, LAUNCHER IN NEW FOUNDATION AND GROUND ROD. BOND ALL SERVICES GROUNDS TO MAIN BUILDING GROUND SYSTEM PER ARTICLE 250 OF THE NEC AND ALL LOCAL AMENDMENTS.
7. PROVIDE ENGRAVED NAMEPLATE AT NEW SERVICE DISCONNECT.



FEEDER TAGS: EXAMPLE, "400N" INDICATES 400 OCPD WITH NEUTRAL, 4 WIRE. "400" INDICATES 400 OCPD, 3 WIRE. "400N2" INDICATES 400 OCPD, 5 WIRE (DBL. NEUTRAL). "400NIG" INDICATES 400A OCPD WITH NEUTRAL AND ISOLATED GROUND, 6 WIRE.

COORDINATED SHOP DRAWINGS SHALL BE PROVIDED BY EACH SUBCONTRACTOR AND SHALL CONTAIN A LAYOUT OF ALL DUCTWORK, CONDUIT, PIPING, EQUIPMENT, STRUCTURE, WALL, CEILING, ETC. AS REQUIRED TO REFLECT FULL INFORMATION ACROSS ALL TRADES AND SHALL BE SUBMITTED FOR REVIEW. COORDINATED DRAWINGS SHALL BE SIGNED OFF BY ALL OTHER TRADES PRIOR TO BEING SUBMITTED FOR REVIEW. PLANS SHALL BE PREPARED AT A MINIMUM OF 1/8" SCALE OR THE SCALE OF THE DESIGN DRAWINGS, WHICHEVER IS LARGER. NO EQUIPMENT SHALL BE INSTALLED WITHOUT APPROVED SHOP DRAWINGS.

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ELECTRICAL SCHEDULES

Sheet No.

COORDINATED SHOP DRAWINGS SHALL BE PROVIDED BY EACH SUBCONTRACTOR AND SHALL CONTAIN A LAYOUT OF ALL DUCTWORK, CONDUIT, PIPING, EQUIPMENT, STRUCTURE, WALLS, CEILING, ETC. AS REQUIRED TO REFLECT THE COORDINATION ACROSS ALL TRADES AND SHALL BE SUBMITTED FOR REVIEW. COORDINATED DRAWINGS SHALL BE SIGNED OFF BY ALL OTHER TRADES PRIOR TO BEING SUBMITTED FOR REVIEW. PLANS SHALL BE PREPARED AT A MINIMUM OF 1/8" SCALE OR THE SCALE OF THE DESIGN DRAWINGS, WHICHEVER IS LARGER. NO EQUIPMENT SHALL BE INSTALLED WITHOUT APPROVED SHOP DRAWINGS.

FOODSERVICE ELECTRICAL SCHEDULE												
ITEM NO.	QTY	DESCRIPTION	VOLTS	CYCLE	PHASE	KW	HP	AMPS	TYPE	NEMA	HGT AFF	REMARKS
8	2	UNDERBAR BLENDER STATION	120	60	1			15.00	JBW		15"	15.0 AMP CIRCUIT; DIV. 26 TO MOUNT KEC SUPPLIED DUPLEX RECEPTACLE AND BRANCH TO CONNECTION
11	1	4 DOOR REMOTE BACKBAR REFRIGERATED CABINET	120	60	1			2.50	CONDUIT		28"	CONNECT W/ LIQUID TIGHT CONDUIT
11.1	1	REFRIGERATED BACKBAR CABINET CONDENSING UNIT	208	60	1		3/4	9.10	DISCONNECT			NOTE 14; DISCONNECT AT UNIT ON ROOF
12	1	3 DOOR REMOTE BACKBAR REFRIGERATED CABINET	120	60	1			2.00	CONDUIT		28"	CONNECT W/ LIQUID TIGHT CONDUIT
12.1	1	REFRIGERATED BACKBAR CABINET CONDENSING UNIT	208	60	1		1/2	7.00	DISCONNECT			NOTE 14; DISCONNECT AT UNIT ON ROOF
12.2	1	2 DOOR REFRIGERATED BACKBAR CABINET	120	60	1			1.60	CONDUIT		28"	CONNECT W/ LIQUID TIGHT CONDUIT
16	1	ROTARY GLASS WASHER	120	60	1			4.30	DR			DR HEIGHT TIGHT TO BAR TOP; MOUNT DR HORIZONTALLY
18	1	FREEZER	120	60	1				DR		18"	15.0 AMP CIRCUIT
22	1	BUILT-IN WARMING DRAWER	120	60	1			7.50	JBW		18"	
23	1	REACH-IN UNDERCOUNTER REFRIGERATOR	120	60	1		1/5	5.00	DR	5-15P	18"	
26	1	ICE CREAM DIPPING CABINET	120	60	1		1/4	5.70	DR	5-15P	18"	
27	1	WALK-IN MEAT COOLER	120	60	1			3.00	JBH			NOTE 11, 12
27.1	1	WALK-IN MEAT COOLER EVAPORATOR COIL	120	60	1			1.60	JBH			
27.2	1	WALK-IN MEAT COOLER CONDENSING UNIT	208	60	3		1 1/2	11.10	DISCONNECT			NOTE 14; DISCONNECT AT UNIT ON ROOF
28	1	WALK-IN FREEZER	120	60	1			3.00	JBH			NOTE 11, 12
28.1	1	WALK-IN FREEZER EVAPORATOR COIL	208	60	1			9.80	JBH			
28.2	1	WALK-IN FREEZER COOLER CONDENSING UNIT	208	60	3		2	10.80	DISCONNECT			NOTE 14; DISCONNECT AT UNIT ON ROOF
28.3	1	WALK-IN FREEZER COIL DRAIN HEAT TAPE	120	60	1				SR			NOTE 17 (IN USE COVER)
29	1	WALK-IN PRODUCE COOLER	120	60	1			3.00	JBH			NOTE 11, 12
29.1	2	WALK-IN PRODUCE COOLER EVAPORATOR COIL	120	60	1			0.80	JBH			
29.2	1	WALK-IN PRODUCE COOLER CONDENSING UNIT	208	60	3		1 1/2	7.70	DISCONNECT			NOTE 14; DISCONNECT AT UNIT ON ROOF
31	1	SINGLE SECTION REACH-IN REFRIGERATOR	120	60	1		1/4	6.00	DR	5-15P	84"	
32	1	BEER COOLER (LIGHTS)	120	60	1			3.00	JBH			NOTE 11, 12
32.1	1	BEER COOLER EVAPORATOR COIL	120	60	1			1.60	JBH			NOTE 12, 15; ELECTRIC DFA
32.2	1	BEER COOLER CONDENSING UNIT	208	60	3		1 1/2	11.10	DISCONNECT			NOTE 14; DISCONNECT AT UNIT ON ROOF
33	1	99" REFRIGERATED PIZZA TABLE	120	60	1		1/2	14.00	DR		18"	
34	2	HOT FOOD SERVING COUNTER	208	60	1			8.32	SPR	6-15P	18"	
35	3	68" REFRIGERATED PIZZA TABLE	120	60	1		1/3	8.00	DR	5-15P	18"	
37	1	MICROWAVE CONVECTION OVEN	120	60	1			40.00	SPR	6-50P	48"	
38	1	32" - 0" PASS THRU SHELF	120/208	60	1		1		CONDUIT			BRANCH TO CONNECTIONS FOR ITEMS # 38.5, #38.6, #38.8, #38.9, & #38.10; DIV. 26 TO MAKE FINAL CONNECTIONS. ELECTRIC DFA; REFER TO CUSTOM SHOP DRAWING WIRING DIAGRAM
38.3	3	DROP-IN HOT WELL	120	60	1			4.20	JBW		24"	NOTE 4
38.5	1	60" HEAT LAMP WITH LIGHTS	120/208	0	1			16.00				
38.6	1	36" DISPLAY LIGHT	120	60	1			0.08				
38.8	1	72" HEAT LAMP WITH LIGHTS	120/208	60	1			19.60				
38.9	1	66" HEAT LAMP WITH LIGHTS	120/208	60	1			17.50				
38.10	2	54" HEAT LAMP WITH LIGHTS	120/208	60	1			14.00				
40	1	MICROWAVE OVEN	120	60	1			17.70	DR	5-20P	66"	
41	1	32" REFRIGERATED SANDWICH UNIT	120	60	1			7.20	DR	5-15P	18"	
42	1	75" REFRIGERATED EQUIPMENT STAND	120	60	1		1/4	10.00	DR	5-15P	18"	
43	1	36" RANGE W/ CONVECTION OVEN	120									

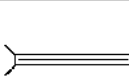
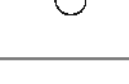
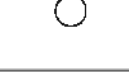
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SERVICE ELECTRICAL NOTES

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GENERAL NOTES

1. BLACK TRIM RINGS TO BE FACTORY PAINTED SHERWIN WILLIAMS CARBIDE BLACK POLANE T (RAL# FB812), AND ARE NOTED BY A-S IN THE FIXTURE TAG.
2. ALL LAMPS SHALL BE SYLVANIA, PHILIPS, SATCO, OR TCP, UNLESS NOTED OTHERWISE AND PROVIDED BY G.C.
3. ALL INTERIOR AND EXTERIOR SURFACE AND RECESSED LIGHT FIXTURES SHALL BE LABELED "U.L. LISTED."
4. BATTERY PACKS PROVIDED FOR ALL EXIT SIGNS AND EMERGENCY EGRESS FIXTURES SHALL BE RATED FOR MINIMUM 90 MINUTE OPERATION AT FULL OUTPUT
5. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND/OR THE MISCELLANEOUS LIGHTING DETAIL SHEETS FOR EXACT LOCATIONS OF LIGHT FIXTURES.
6. FOR ALL LIGHTING/DAYBRITE/GARCO/PHILIPS/CLORIDE LIGHTING FIXTURES, CONTACT JULIE BLANKENHEIM, 630-484-7403.

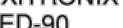
ARCHITECTURAL LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER / MODEL #	LAMP	VOLTAGE	WATTS	VA	DESCRIPTION	QUANTITY
K1	 DAYBRITE 2EVG54LH8304DUNVDM	INTEGRAL LED	UNIVERSAL	55		2'X4", RECESSED 3000K LED TROFFER, PRISMATIC LENS AND ELECTRONIC BALLAST, @ B.O.H.	29
K1-E M	 DAYBRITE 2EVG54LH8304DUNVDM-EMLED	INTEGRAL LED	UNIVERSAL	55		2'X4", RECESSED 3000K LED TROFFER, PRISMATIC LENS, ELECTRONIC BALLAST AND EMERGENCY BATTERY PACK FOR TWO LAMPS RATED FOR 1100 TO 1400 LUMENS, @ B.O.H.	11
K3	 DAYBRITE T232-UNV-1/2-EB-IOP232-LWN-FKR-126-CG-4 INSTANT START BALLAST	(2) 14WTLTD PHILIPS INSTANT FIT- 3000K	UNIVERSAL	28		4'-0", STANDARD STRIP WITH 2-LAMP T8, AND ELECTRONIC BALLAST, WITH WIRE GUARD AND CHAIN HANGER KIT	2
K3-E M	 DAYBRITE T232-120-1/2-EB10R-E5-FKR-126-CG-4 INSTANT START BALLAST & EMERGENCY BATTERY PACK	(2) 14WTLTD PHILIPS INSTANT FIT- 3000K	UNIVERSAL	28		4'-0", STANDARD STRIP WITH 2-LAMP T8, AND ELECTRONIC BALLAST AND EMERGENCY BATTERY PACK WITH WIRE GUARD AND CHAIN HANGER KIT	2
K4	 DAYBRITE 2EVG30L830-2-D-UNV-DIM	(2) 14WTLTD PHILIPS INSTANT FIT- 3000K	UNIVERSAL	28		2'X2", RECESSED DIMMABLE 3000K LED @ B.O.H.	1
LS1	 NOVA FLEX NF-PRO-G-120-24V-2700K	WARM WHITE LED, LAMP INTEGRAL	12V		PER DRIVER	DIMMING COMPATIBILITY TO BE VERIFIED BY PROJECT, 0-10V AND MLV DIMMING DRIVERS ARE AVAILABLE. REFER TO RCP & MISC. LIGHTING DETAIL SHEETS FOR QUANTITY/LOCATION. LED TAPE LIGHT. SURFACE MOUNTED w/ LOW PROFILE CHANNEL (CONCEALED), CLEAR PANEL USED FOR TASK LIGHTING AND SOFT PANEL USED FOR MILLWORK & SUSPENDED BARREL LIGHTING	45
LS3	 ONMILIGHT FIXTURE: GEN-27-SHO-CC LEADER: DRIVERS AS REQUIRED PER PLAN	2700K LED	24V		5.3 / FT	DIMMING COMPATIBILITY TO BE VERIFIED BY PROJECT, 0-10V AND MLV DIMMING DRIVERS ARE AVAILABLE. REFER TO RCP & MISC. LIGHTING DETAIL SHEETS FOR QUANTITY/LOCATION. STRIP LIGHT AT MILLWORK W/INE DISPLAYS	6
R2-b	 LIGHTOTIER FRAME: 4RN ENGINE: C4110827MZ10U TRIM: C4RDCL - PAINT BLACK	2700K LED	120V	11		4" LED RECESSED DOWNLIGHT - DIMMABLE WITH 0-10V DIMMER (INTERNAL LENS STANDARD IS APPROVED FOR OVER FLOOD SERVICE) BLACK FLANGE. MEDIUM SPREAD BEAM. 1000 LUMENS - USED FOR CEILING HEIGHTS BETWEEN 9' AND 12'	90
R3-b	 LIGHTOTIER FRAME: 3RN ENGINE: C3RA10927NS210U TRIM: C3RAP9BK - PAINT BLACK	2700K LED	120V	13		3" RECESSED ADJUSTABLE PINHOLE APERTURE DOWNLIGHT - DIMMABLE WITH 0-10V DIMMER 1000 LUMENS - USED TO LIGHT TABLES	32
R5	 LIGHTOTIER FRAME: 3RN ENGINE: C3RA10927FLZ10U TRIM: C3RACL	2700K LED	120V	13		3" RECESSED ADJUSTABLE APERTURE 1,000 LUMEN LED ACCENT LIGHT. DIMMABLE WITH 0-10V DIMMER WHITE FLANGE WIDE FLOOD-USED FOR CEILING HEIGHTS 10'-12'	11
R5-b	 LIGHTOTIER FRAME: 3RN ENGINE: C3RA10927FLZ10U TRIM: C3RACL - PAINTED BLACK	2700K LED	120V	13		3" RECESSED ADJUSTABLE APERTURE 1,000 LUMEN LED ACCENT LIGHT. DIMMABLE WITH 0-10V DIMMER BLACK FLANGE WIDE FLOOD-USED FOR CEILING HEIGHTS 10'-12'	17
R6	 LIGHTOTIER LYTCASTER FRAME-IN-KIT: L3NZ10U LIGHT ENGINE: L308927NF ROUND TRIM: L3RAPW	2700K LED	120V	--		RECESSED ADJUSTABLE LED DOWNLIGHT WITH PINHOLE APERTURE. DIMMABLE WITH 0-10V DIMMER WHITE FLANGE USED FOR CEILING HEIGHTS BETWEEN 8'-10'	6
R7	 LIGHTOTIER FRAME IN KIT: 4RN LIGHT ENGINE: P4RDL20827CLZ10U	2700K LED	120V	21		4" ROUND DOWNLIGHT WHITE FLANGE USED IN RESTROOMS	18
S1	 LUCIFER LIGHTING COMPANY PUKLED LPK SEMI-RECESSED LED LPK-1-80L-02A-27-B	4.3W AC LED	120V/12V	4.3		SEMI-RECESSED PUK LIGHT WITH BLACK TRIM RING. PROVIDE WITH REMOTE POWER SUPPLY. REFER TO RCP & MISC. LIGHTING DETAIL SHEETS FOR QUANTITY/LOCATION AND INSTALLATION TYPE. USED FOR MILLWORK LIGHTING	20
S3-b	 JUNO - TRAC MASTER AVANT GARDE CYLINDRA T254L 27K 60CRI PDIM SP B	2700K 80 CRI 15W LED SP	120V	15		SURFACE MOUNTED MONOPONT WITH CANOPY AND ELV TRANSFORMER - = MONOPONT W/ NO STEM a = MONOPONT W/ 12" STEM b = MONOPONT W/ 18" STEM c = MONOPONT W/ 24" STEM * NOTE: STEMS CAN BE COMBINED FOR ADDITIONAL LENGTHS AND ARE NOTED BY TWO LETTERS SURFACE MOUNTED MONOPONT WITH CANOPY AND ELV TRANSFORMER - = MONOPONT W/ NO STEM a = MONOPONT W/ 12" STEM b = MONOPONT W/ 18" STEM c = MONOPONT W/ 24" STEM	34
T1	 LIGHTOTIER MODEL: LT08RNF827BKVA/8074BK	2700K LED	120V	9		LED TRACK HEAD, 2700K IN BLACK NARROW FLOOD DISTRIBUTION, ELV DIMMING BLACK FINISH, 18" STEM. * NOTE: STEMS CAN BE COMBINED FOR ADDITIONAL LENGTHS AND ARE NOTED BY TWO LETTERS	43
TR6	 LIGHTOTIER 6006NBK 6" TRACK 6048NBK LIVE END	--	--	--		LIGHTOTIER BASIC LYTESPAN SINGLE CIRCUIT TRACK BLACK FINISH REFER TO PLAN FOR TRACK HEADS	7
TR8	 LIGHTOTIER 6008NBK 8" TRACK 6048NBK LIVE END	--	--	--		LIGHTOTIER BASIC LYTESPAN SINGLE CIRCUIT TRACK BLACK FINISH REFER TO PLAN FOR TRACK HEADS	4

EXTERIOR LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER / MODEL #	LAMP	VOLTAGE	WATTS	VA	DESCRIPTION	QUANTITY
CF 	FANIMATION SPITFIRE (DAMP RATED) MODEL: MA6721BK BLADES: B6720	--	120V	--	--	MOTOR ASSEMBLY: MATTE GREIGE FAN ASSEMBLY BLADES: 60" SWEEP SPITFIRE NATURAL WOOD BLADE SET W/ FAN CONTROL BY LUTRON MODEL #DVFSGQ-F-BL	4
RH-2 	SOLAIRA ICR SERIES MODEL: SICR4024OB-SMART34-DV-SM-WSD	--	208V	3,000	--	ELECTRIC HEATER AT PATIO. SOLAIRA SMART 16A DUAL VOLTAGE VARIABLE CONTROL, 34.5"L x 10"W x 4.33"D DUAL VOLTAGE DIGITAL CONTROLLER: SMART34-DV WALL SWITCH FOR SMART34-DV-SM-WSD BLACK FINISH MOUNT HEATER AT 45 DEGREE ANGLE W/ STANDARD FACTORY BRACKET	8
X1-b 	LIGHTOLIER FRAME: 6RN ENGINE: CGL15927WZ10U TRIM: C6RDLCL PAINTED BLACK	--	120V/227V	--	--	CALCULITE GEN 3 - 6" ROUND RECESSED LED DOWNLIGHT. UL WET LOCATION LISTED. BLACK FLANGE USED FOR EXTERIOR CANOPY DOWNLIGHTING	2
X3 	RAB LIGHTING LFP16B	(1) 7 WATT TCP LED7P1627KFL	120V	60	--	LAMP BEAM ANGLE TO BE 30 DEGREE SPREAD BLACK FINISH SURFACE LIGHTING USED AT REGULAR HARD LID PATIO CANOPIES	20
X5-E M 	GARDCO 121-16L-70W-WW-G4-3-EBPC-120-BK	LED	120V	--	--	SURFACE MOUNTED 2 LAMP LED WALL PACK WITH MEDIUM THROW CUT OFF OPTICS AND EMERGENCY BATTERY OPTION. BLACK FINISH	9
XSC1 	DECORATIVE SCONCE MFR: KUZCO STYLE: MICA MODEL: AT6606	3000K LED	120V	15W	--	FINISH: BLACK SIZE: 5 1/2" W X 4 1/2" H X 1 1/2" D LOCATION: EXTERIOR WALL REFER TO ELEVATIONS FOR MOUNTING HEIGHT	4

EXITING & EMERGENCY LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER / MODEL #	LAMP	VOLTAGE	WATTS	VA	DESCRIPTION	QUANTITY
EM1 	EXITRONIX LED-90	LED	120V	12		EMERGENCY LIGHTING FOR FRONT OF HOUSE. WHITE HOUSING	2
EM1-b 	EXITRONIX LED-90BL	LED	120V	12		EMERGENCY LIGHTING FOR FRONT OF HOUSE. BLACK HOUSING	5
EX1 	PHILIPS - CHLORIDE CALIBER SERIES CNRWW21C	LED INCLUDED WITH UNIT	120V	3.8		SINGLE-SIDED, WALL OR CEILING MOUNTED, EDGE-LIT, LED EXIT SIGN TO BE USED IN FRONT OF HOUSE. WHITE FINISH	1
EX1-b 	PHILIPS - CHLORIDE CALIBER SERIES CNRWB21C	LED INCLUDED WITH UNIT	120V	3.8		WALL, OR CEILING MOUNTED, EDGE-LIT, LED EXIT SIGN TO BE USED IN FRONT OF HOUSE BLACK FINISH	11
EX2 	PHILIPS CHLORIDE VE SERIES VERWEIM	LED INCLUDED WITH UNIT	120V	3.62		LED EXIT SIGN WITH THERMOPLASTIC HOUSING AND 2 STENCIL FACES TO BE USED IN BACK OF HOUSE WHITE FINISH	5

DECORATIVE LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER / MODEL #	LAMP	VOLTAGE	WATTS	VA	DESCRIPTION	QUANTITY
P1	DECORATIVE PENDANT MRF: TROY LIGHTING STYLE: DISTRICT MODEL: F5571	(1) 4.5W DIMMABLE LED / T9 (8") E26 / CLEAR / 2700K	120V	4.5W		FINISH: SATIN BLACK/TOPAZ GLASS SIZE: 8"W x 15.75"H LOCATION: PRIVATE DINING ROOM, REFER TO ENLARGED PLAN FOR MOUNTING HEIGHTS	5
P2	DECORATIVE PENDANT MRF: TROY LIGHTING STYLE: ELLIOT MODEL: F6223	(3) 4W DIMMABLE LED / G9 WEDGEBASE XENON / 2700K	120V	6W		FINISH: TEXTURED BLACK SIZE: 25" DIA x 20" H LOCATION: BAR DINING, MOUNT AT 6'-4" A.F.F.	5
P3	DECORATIVE PENDANT MRF: TROY LIGHTING STYLE: DISTRICT MODEL: F5571	(1) 4.5W DIMMABLE LED / T9 (8") E26 / CLEAR / 2700K	120V	4.5W		FINISH: SATIN BLACK/TOPAZ GLASS SIZE: 8"W x 15.75"H LOCATION: PRIVATE DINING ROOM, REFER TO ENLARGED PLAN FOR MOUNTING HEIGHTS	6
P4	DECORATIVE PENDANT MRF: TROY LIGHTING STYLE: DISTRICT MODEL: F5571	(1) 4.5W DIMMABLE LED / T9 (8") E26 / CLEAR / 2700K	120V	4.5W		FINISH: SATIN BLACK/TOPAZ GLASS SIZE: 8"W x 15.75"H LOCATION: PRIVATE DINING ROOM, REFER TO ENLARGED PLAN FOR MOUNTING HEIGHTS	4
P5	DECORATIVE PENDANT MRF: TROY LIGHTING STYLE: DISTRICT MODEL: F5571	(1) 4.5W DIMMABLE LED / T9 (8") E26 / CLEAR / 2700K	120V	4.5W		FINISH: SATIN BLACK/TOPAZ GLASS SIZE: 8"W x 15.75"H LOCATION: PRIVATE DINING ROOM, REFER TO ENLARGED PLAN FOR MOUNTING HEIGHTS	10
SC1	WALL SCONCE MFR: ONE FOURTY THREE STYLE: WALLACE LAMP MODEL:	LED				FINISH: BLACK LAMP W/ BRASS SHADE/BRASS HARDWARE SIZE: 5" PLATE X 17" H X 12" D LOCATION: RETAIL	7
SC2	WALL SCONCE MFR: MITZI STYLE: BELINDA MODEL: H415101A-OB	LED				FINISH: OLD BRONZE SIZE: 6" W X 14" W X 7" H LOCATION: BATHROOMS	9
TBL1	TABLE LAMP MFR: PAGE ONE LIGHTING STYLE: CENTURY LED TABLE LAMP MODEL:	3000K LED	120V	7W		FINISH: SATIN FARK GRAY WITH SMOKE GLASS SIZE: 5.9" DIA X 17.6" H LOCATION: HOST STAND	1

COORDINATED SHOP DRAWINGS SHALL BE PROVIDED BY EACH SUBCONTRACTOR AND SHALL CONTAIN A LAYOUT OF ALL DUCTWORK, CONDUIT, PIPING, EQUIPMENT, STRUCTURE, WALLS, CEILING, ETC. AS REQUIRED TO REFLECT FULL COORDINATION ACROSS ALL TRADES AND SHALL BE SUBMITTED FOR REVIEW. COORDINATED DRAWINGS SHALL BE SIGNED OFF BY ALL OTHER TRADES PRIOR TO BEING SUBMITTED FOR REVIEW. PLANS SHALL BE PREPARED AT A MINIMUM OF 1/8" SCALE OR THE SCALE OF THE DESIGN DRAWINGS, WHICHEVER IS LARGER.

NO EQUIPMENT SHALL BE INSTALLED WITHOUT APPROVED SHOP DRAWINGS.

Notes:

1. Contractor shall provide adequate withstand rating of equipment per available fault current from the existing utility or distribution. Coordinate with utility.
2. Contractor shall provide a circuit schedule directory in or on the face of electric panel.
- 3.
- 4.
- 5.

Notes:

1. Contractor shall provide adequate withstand rating of equipment per available fault current from the existing utility or distribution. Coordinate with utility.
2. Contractor shall provide a circuit schedule directory in or on the face of electric panel.
- 3.
- 4.
- 5.

Notes:

1. Contractor shall provide adequate withstand rating of equipment per available fault current from the existing utility or distribution. Coordinate with utility.
2. Breaker for FACP shall be red in color
3. Contractor shall provide a circuit schedule directory in or on the face of electric panel.

4

5

Notes:

1. Contractor shall provide adequate withstand rating of equipment per available fault current from the existing utility or distribution. Coordinate with utility.

2. Contractor shall provide a circuit schedule directory in or on the face of electric panel.

3.

4.

5.

Notes:

1. Contractor shall provide adequate withstand rating of equipment per available fault current from the existing utility or distribution. Coordinate with utility.
2. Coordinate C19 & C21 with KEC plans for location
3. Contractor shall provide a circuit schedule directory in or on the face of electric panel.
- 4.
- 5.

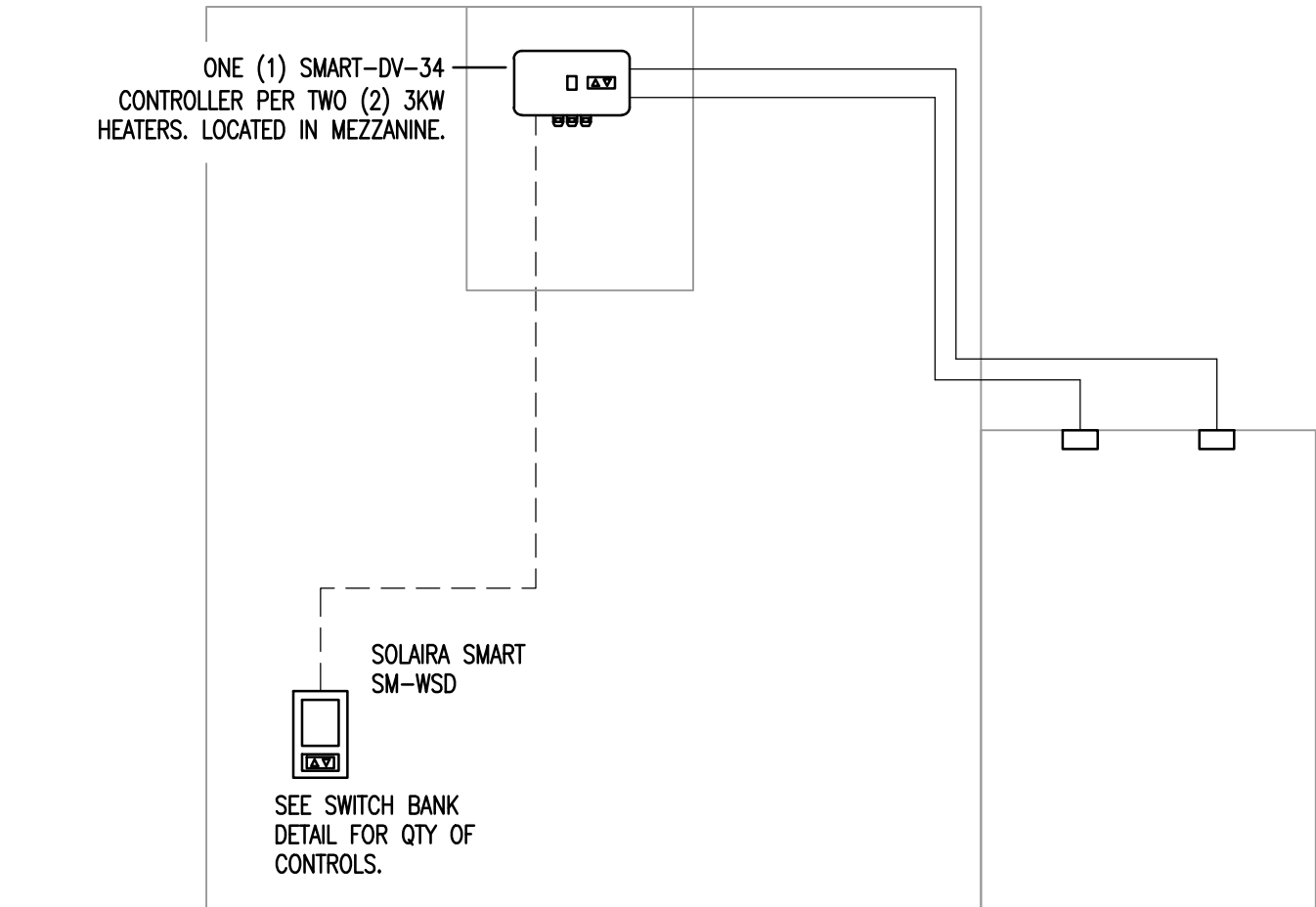
Notes:

1. Contractor shall provide adequate withstand rating of equipment per available fault current from the existing utility or distribution. Coordinate with utility.
2. Contractor shall provide a circuit schedule directory in or on the face of electric panel.
- 3.
- 4.
- 5.

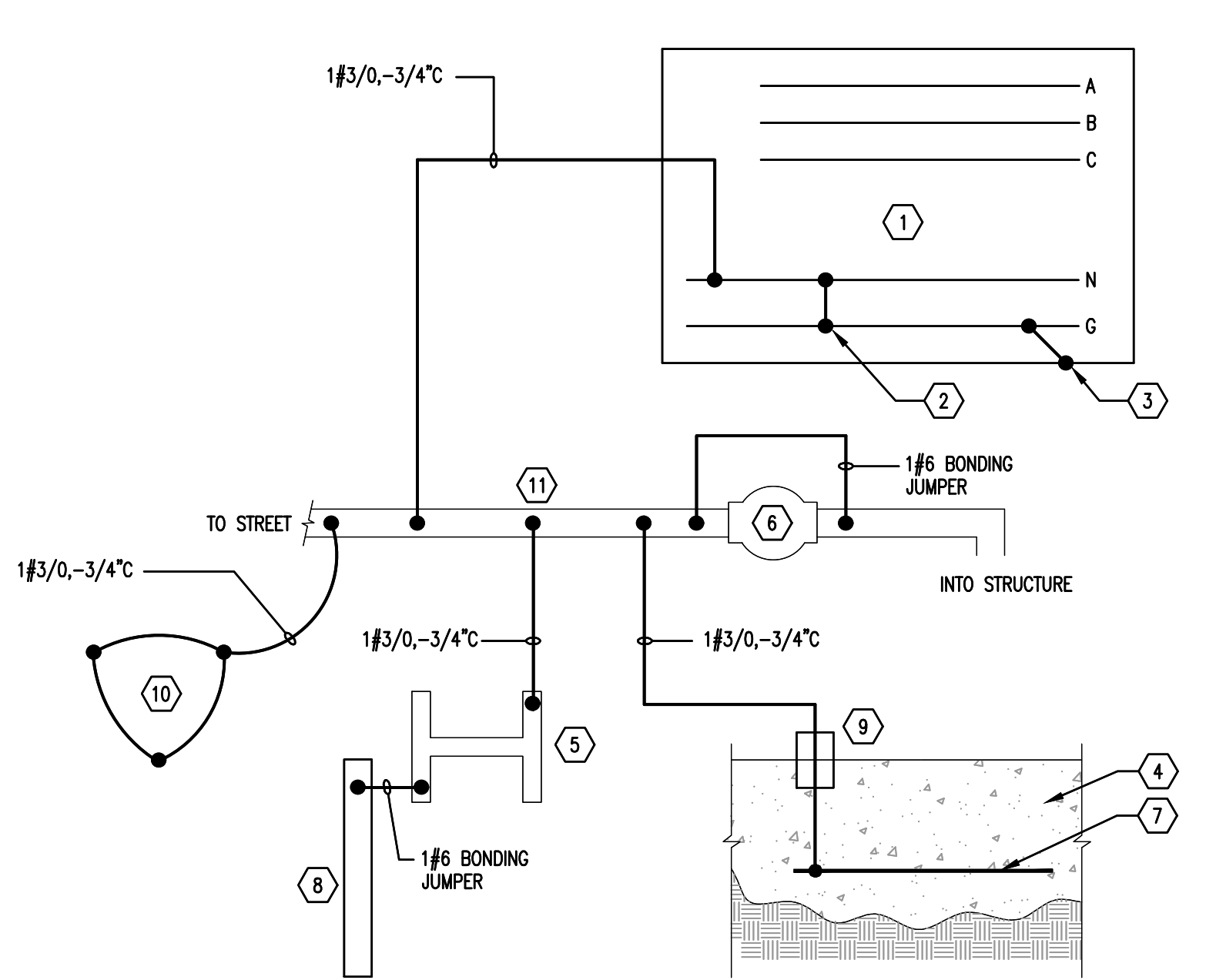
Lighting Zone / Relay Schedule													
Zone	Switch bank	Area served	Fixture tag	Load type	Qty.	Fixture wattage	Total Watts	Panel	Relay #	Ckt	Wall Dimmer Model# (Leviton)	Power Extender	Remarks
1	A	ENTRY VESTIBULE	R2-b	0-10V	2	11	22	LP1	1	LP1.4	IP710-LFZ	-	
2		NOT USED											
3	A	WAITING AREA	TR6 (T1 HEAD)	ELV	1	60	60	LP1	3	LP1.2	VRE06-1LZ	-	PROVIDE DRIVER AS REQUIRED
4	A	RETAIL	TR6 (T1 HEAD)	ELV	3	60	180	LP1	4	LP1.2	VRE06-1LZ	-	PROVIDE DRIVER AS REQUIRED
5	A	RETAIL	SC1	LED	4	15	60	LP1	5	LP1.2	IPLO6-10Z	-	
6	A	RETAIL	TR6 (T1 HEAD)	ELV	4	60	240	LP1	6	LP1.2	VRE06-1LZ	-	PROVIDE DRIVER AS REQUIRED
7	A	RETAIL	TR6 (T1 HEAD)	ELV	3	60	180	LP1	7	LP1.2	VRE06-1LZ	-	PROVIDE DRIVER AS REQUIRED
8	A	CHECK-OUT	R2-b	0-10 V	4	11	44	LP1	8	LP1.4	IP710-LFZ	-	
9	A	TASTING BAR	R2-b	0-10 V	10	11	110	LP1	9	LP1.4	IP710-LFZ	-	
10	A	TASTING BAR	R5-b	0-10 V	3	13	39	LP1	10	LP1.4	IP710-LFZ	-	
11	A	TASTING BAR	R2-b	0-10 V	5	11	55	LP1	11	LP1.4	IP710-LFZ	-	
12	A	TASTING BAR (BARRELS)	R5-b	0-10 V	4	13	52	LP1	12	LP1.4	IP710-LFZ	-	
13	A	HOST	R2-b	0-10 V	3	11	33	LP1	13	LP1.4	IP710-LFZ	-	
14	A	HOST	R5-b	0-10 V	1	13	13	LP1	14	LP1.4	IP710-LFZ	-	
15	A	HOST	TBL1	LED	1	7	7	LP1	15	LP1.4	IPLO6-10Z	-	
16	A	BARREL RESERVE	R2-b	0-10 V	7	11	77	LP1	16	LP1.4	IP710-LFZ	-	
17	A	BARREL RESERVE	R5-b	0-10 V	2	13	26	LP1	17	LP1.4	IP710-LFZ	-	
18	A	BARREL RESERVE	R2-b	0-10 V	2	11	22	LP1	18	LP1.4	IP710-LFZ	-	
19	A	BARREL RESERVE	R5-b	0-10 V	3	13	39	LP1	19	LP1.4	IP710-LFZ	-	
20	A	TOILET HALL	R2-b	0-10 V	5	11	55	LP1	20	LP1.4	IP710-LFZ	-	
21	A	TOILET HALL	R2-b	0-10 V	1	13	13	LP1	21	LP1.4	IP710-LFZ	-	
22	A	FAMILY TOILET	R7-b	0-10V	3	21	63	LP1	22	LP1.6	IP710-LFZ	-	
23	A	FAMILY TOILET	R6-b	0-10V	1	12	12	LP1	23	LP1.6	IP710-LFZ	-	
24	A	FAMILY TOILET	SC2	LED	2	15	30	LP1	24	LP1.6	IPLO6-10Z	-	WIRE VIA LOCAL OCC SENSOR FOR ON/OFF CONTROL
25	A	WOMENS TOILET	R7-b	0-10V	7	21	147	LP1	25	LP1.6	IP710-LFZ	-	
26	A	WOMENS TOILET	R6-b	0-10V	3	12	36	LP1	26	LP1.6	IP710-LFZ	-	
27	A	WOMENS TOILET	SC2	LED	4	15	60	LP1	27	LP1.6	IPLO6-10Z	-	
28	A	MENS TOILET	R7-b	0-10V	8	21	168	LP1	28	LP1.6	IP710-LFZ	-	
29	A	MENS TOILET	R6-b	0-10V	2	12	24	LP1	29	LP1.6	IP710-LFZ	-	
30	A	MENS TOILET	SC2	LED	3	15	45	LP1	30	LP1.6	IPLO6-10Z	-	
31	B	BAR BACK	R2-b	0-10 V	7	11	77	LP1	31	LP1.8	IP710-LFZ	-	
32	B	BAR BACK	R5-b	0-10V	6	13	78	LP1	32	LP1.8	IP710-LFZ	-	
33	B	BAR BACK	R2-b	0-10 V	4	11	44	LP1	33	LP1.8	IP710-LFZ	-	
34	B	BAR BACK	R2-b	0-10 V	6	11	66	LP1	34	LP1.8	IP710-LFZ	-	
35	B	BAR DINING	S3	ELV	7	15	105	LP1	35	LP1.8	VRE06-1LZ	-	
36	B	BAR DINING	S3	ELV	15	15	225	LP1	36	LP1.8	VRE06-1LZ	-	
37		NOT USED											
38	B	BAR DINING	P1	LED	5	4.5	22.5	LP1	38	LP1.8	IPLO6-10Z	-	
39		NOT USED											
40	E	DINING	SC1	LED	3	15	45	LP1	40	LP1.10	IPLO6-10Z	-	
41	E	DINING	P2	LED	5	12	60	LP1	41	LP1.10	IPLO6-10Z	-	
42	E	DINING	R3-b	0-10V	8	13	104	LP1	42	LP1.10	IP710-LFZ	-	
43	E	DINING	R3-b	0-10V	24	13	312	LP1	43	LP1.10	IP710-LFZ	-	
44	E	DINING	P4	LED	4	4.5	18	LP1	44	LP1.10	IPLO6-10Z	-	
45	E	DINING	F3	LED	6	4.5	27	LP1	45	LP1.10	IPLO6-10Z	-	
46	E	DINING	R2-b	0-10V	16	11	168	LP1	46	LP1.10	IP710-LFZ	-	
47	E	DINING	R5-b	0-10V	3	13	39	LP1	47	LP1.10	IP710-LFZ	-	
48	E	DINING	R2-b	0-10V	3	11	33	LP1	48	LP1.10	IP710-LFZ	-	
49	E	EXPO	R2-b	0-10V	6	11	66	LP1	49	LP1.10	IP710-LFZ	-	
50	E	EXPO	R2-b	0-10V	7	11	77	LP1	50	LP1.10	IP710-LFZ	-	
51		NOT USED											
52	C	PINOT NOIR ROOM	S3	ELV	6	15	90	LP1	52	LP1.6	VRE06-1LZ	-	
53	C	PINOT NOIR ROOM	R5-b	0-10V	2	13	26	LP1	53	LP1.6	IP710-LFZ	-	
54	C	PINOT NOIR ROOM	P5	LED	5	4.5	22.5	LP1	54	LP1.6	IPLO6-10Z	-	
55	D	CHARDONNAY ROOM	S3	ELV	6	15	90	LP1	55	LP1.6	VRE06-1LZ	-	
56	D	CHARDONNAY ROOM	R5-b	0-10V	2	13	26	LP1	56	LP1.6	IP710-LFZ	-	
57	D	CHARDONNAY ROOM	P5	LED	5	4.5	22.5	LP1	57	LP1.6	IPLO6-10Z	-	
58	F	DINING PATIO	X3	HALOGEN	7	60	420	LP1	58	LP1.18	LEV836700	-	
59	F	DINING PATIO	X3	HALOGEN	7	60	420	LP1	59	LP1.18	LEV836701	-	
60		NOT USED											
61	F	CEILING FANS	CF	N/A	4	100	400	LP1	61	LP1.18	-	-	
62	N/A	EMPLOYEE BREAK ROOM	K1	SWITCH	3	55	165	LP1	N/A	LP1.12	-	-	
63	N/A	EMPLOYEE MENS TOILET	K2	SWITCH	1	28	28	LP1	N/A	LP1.12	-	-	
64	N/A	EMPLOYEE WOMENS TOILET	K2	SWITCH	1	28	28	LP1	N/A	LP1.12	-	-	
65	N/A	PREP/COOKLINE	K1, K4	SWITCH	17	55	935	LP1	N/A	LP1.12	-	-	
66	N/A	PREP/COOKLINE	K1, K4	SWITCH	13	55	715	LP1	N/A	LP1.14	-	-	
67	N/A	DRY STORAGE	K1	SWITCH	4	55	220	LP1	N/A	LP1.14	-	-	
68		NOT USED											
69	N/A	OFFICE	K2	SWITCH	2	28	56	LP1	N/A	LP1.14	-	-	
70	N/A	WRAPPING ROOM	K1	SWITCH	4	55	220	LP1	N/A	LP1.6	-	-	
71	N/A	AV ROOM	K2	SWITCH	1	28	28	LP1	N/A	LP1.6	-	-	
72	N/A	SPRINKLER RM	K3	SWITCH	1	28	28	LP1	N/A	LP1.14	-	-	
73	N/A	STORAGE	R2-b	0-10V	1	11	11	LP1	N/A	LP1.6	-	-	
74	N/A	MECH/ELEC. RM.	K3	SWITCH	3	28	84	LP1	N/A	LP1.14	-	-	
75	N/A	MENU BOARD	SIGN	RELAY/TC	1	400	400	LP1	N/A	LP1.28	-	-	
76	N/A	EASEL BOARD	SIGN	RELAY/TC	1	400	400	LP1	N/A	LP1.28	-	-	
77A	N/A	EXTERIOR SIGNAGE	SIGN	RELAY/TC	1	1200	1200	LP1	N/A	LP1.30	-	-	
77B	N/A	EXTERIOR SIGNAGE	SIGN	RELAY/TC	1	1200	1200	LP1	N/A	LP1.32	-	-	
77C	N/A	EXTERIOR SIGNAGE	SIGN	RELAY/TC	1	1200	1200	LP1	N/A	LP1.34	-	-	
78	N/A	EXTERIOR LIGHTING	X1-b	RELAY/TC	2	15	30	LP1	N/A	LP1.52	-	-	
79	N/A	EXTERIOR LIGHTING	X5	RELAY/TC	9	37	333	LP1	N/A	LP1.52	-	-	ON/OFF BY PHOTO SENSOR
80A	N/A	SITE LIGHTING	A,B,C	RELAY/TC	12	200	2400	LP1	N/A	LP1.54/56	-	-	ON/OFF BY PHOTO SENSOR
80B	N/A	MONUMENT	SIGN	RELAY/TC	1	1200	1200	LP1	N/A	LP1.36	-	-	
81	N/A	EXTERIOR LIGHTING	XSC1	RELAY/TC	2	15	30	LP1	N/A	LP1.52	-	-	
82	A	LIGHTING ELEVATION	LS1	0-10V	9	3	27	LP1	62	LP1.16	IP710-LFZ	-	
83	A	LIGHTING ELEVATION	LS1	0-10V	7	3	21	LP1	63	LP1.16	IP710-LFZ	-	
84	A	TASTING BAR LIGHTING	LS1	0-10V	48	3	144	LP1	64	LP1.16	IP710-LFZ	-	
85	A	TASTING BAR LIGHTING	LS1	0-10V	21	3	63	LP1	65	LP1.16	IP710-LFZ	-	
86	A	HOST	LS1	0-10V	10	3	30	LP1	66	LP1.16	IP710-LFZ	-	
87	A	CHECK-OUT/CARRY OUT	LS1	0-10V	16	3	48	LP1	67	LP1.16	IP710-LFZ	-	
88	A	WINE DISPLAY	LS1	0-10V	12	3	36	LP1	68	LP1.16	IP710-LFZ	-	
89	A	WINE DISPLAY	LS1	0-10V	8	3	24	LP1	69	LP1.16	IP710-LFZ	-	
90	B	MAIN BAR LIGHTING	LS1	0-10V	31	3	93	LP1	70	LP1.16	IP710-LFZ	-	
91	B	MAIN BAR LIGHTING	LS1	0-10V	38	3	114	LP1	71	LP1.16	IP710-LFZ	-	
92	B	MAIN BAR LIGHTING	LS3	0-10V	27	5.3	143.1	LP1	72	LP1.16	IP710-LFZ	-	
93	B	MAIN BAR LIGHTING	S1	REVERSE PHASE	13	4.3	55.9	LP1	73	LP1.16	VERIFY	-	
94	B	SERVICE STATION	S1	REVERSE PHASE	4	4.3	17.2	LP1	74	LP1.16	VERIFY	-	
95	A	LIGHTING ELEVATION	LS1	0-10V	12	3	36	LP1	75	LP1.16	IP710-LFZ	-	
96	A	LIGHTING ELEVATION	S1	REVERSE PHASE	3	4.3	12.9	LP1	76	LP1.16	VERIFY	-	
97		NOT USED											
98		NOT USED											

NOTES:
1. PROVIDE DIMMER TO MATCH LOAD TYPE AND WATTAGE. VERIFY WITH FINAL LIGHT FIXTURE SHOP DRAWINGS PRIOR TO PURCHASE.
2. PROVIDE DEDICATED NEUTRAL FOR EACH CONTROL ZONE.
3. ALL LIGHTING NOT CONTROLLED BY LOCAL SENSOR SHALL BE ROUTED THROUGH THE RELAY PANEL FOR AUTOMATIC ON/OFF CONTROL. REFER TO DETAIL.
4. ALL EMERGENCY LIGHTING SHALL BE CONNECTED TO THE ROOM LIGHTING CIRCUIT IN WHICH IT IS LOCATED, AHEAD OF ANY SWITCH FOR CONTINUOUS OPERATION.
5. ALL EXT SIGNS SHALL BE ON A DEDICATED, LOCK-ON, 247/265 CIRCUIT.
6. REFER TO PLANS AND DETAILS FOR SWITCH BANK INFORMATION.
7. COORDINATE INSTALLATION OF DIMMER SWITCHES WITH MANUFACTURERS REQUIREMENTS. DE-RATE GANGED SWITCHES AS REQUIRED. PROVIDE MINIMUM OF 4 1/2" VERTICAL SPACING BETWEEN DIMMER SWITCHES.

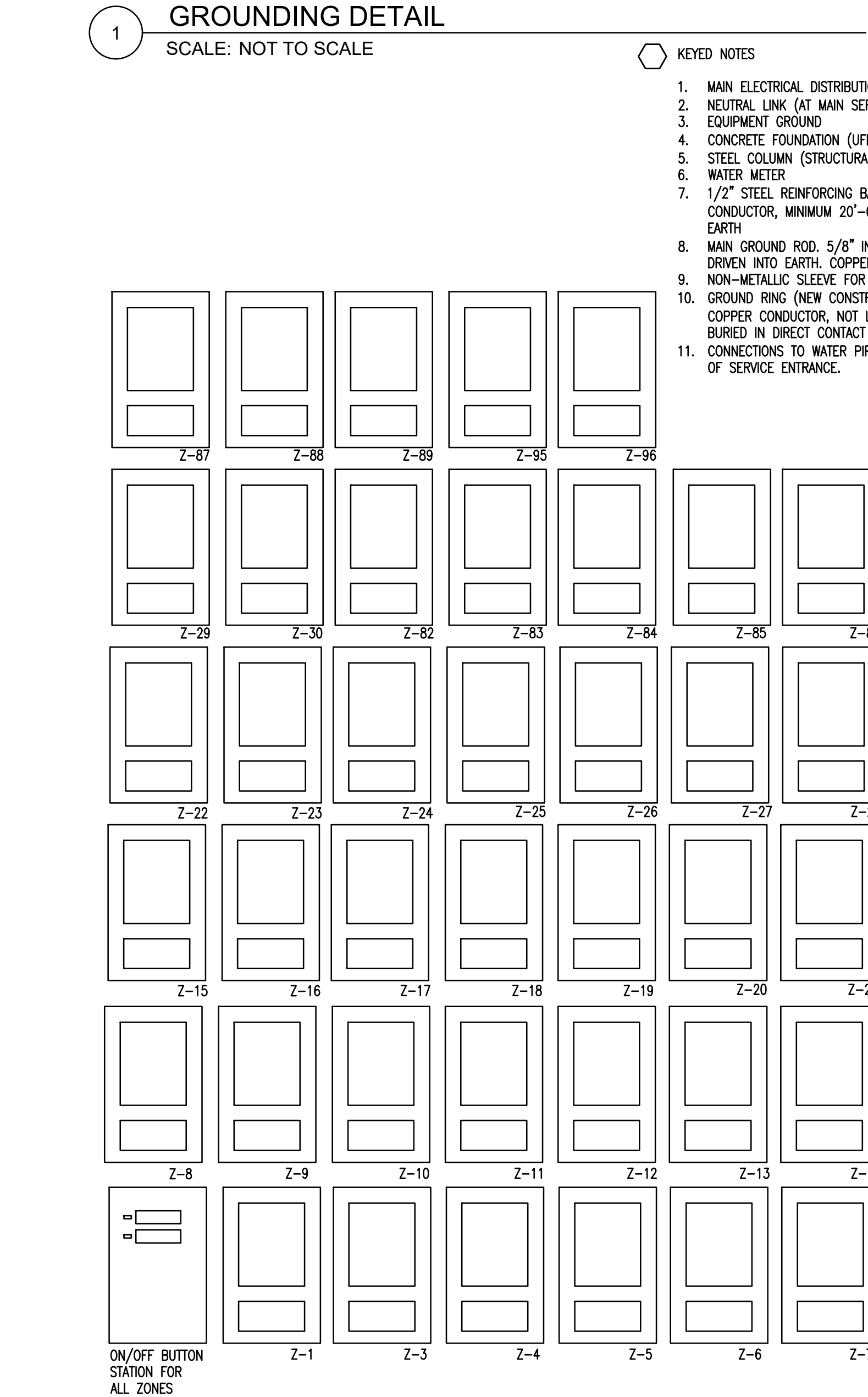
WALL DIMMER SCHEDULE LEVITON			
TYPE	WATTAGE	MODEL #	POWER EXTENDER
0-10V	1200VA	IP710-LFZ	PE300-D0V
HALOGEN	600W	LEV836700	
ELV	600W	VRE06-1LZ	PE400-10W
MLV	450W	IPM06-1LZ	PE100-10W
LED	150W	IPLO6-10Z	
CFL	150W	IPLO6-10Z	
INC.	600W	IP06-1LZ	PE400-10WPE100-10W
NOTE: PROVIDE LEVITON OR APPROVED EQUAL. PROVIDE WALL DIMMERS FOR EACH LOAD TYPE AND WATTAGE AS INDICATED. HERE, PROVIDE POWER EXTENDERS AS REQUIRED. LOCATE POWER EXTENDERS IN AN ACCESSIBLE LOCATION AS DIRECTED BY OWNER AND ARCHITECT TO PRESERVE AESTHETICS. PROVIDE POWER EXTENDERS AS REQUIRED. THE CONTRACTOR SHALL PROVIDE SINGLE GANG RINGS ON LARGER BOXES FOR PROPER COORDINATION WITH DIMMER COVERS.			



9 SOLAIRA HEATER CONTROLS (ELECTRIC)
SCALE: NOT TO SCALE



1 GROUNDING DETAIL
SCALE: NOT TO SCALE



6 SWITCH BANK "A"
SCALE: NOT TO SCALE

LIGHTING CONTROL NARRATIVE

BASIS OF DESIGN
BASIS OF DESIGN IS LEVITON. PROVIDE TWO (2) NETWORKED RELAY PANELS, 42 RELAYS EACH, LOW VOLTAGE WALLSTATIONS FOR ON/OFF SCENE CONTROL, AND A TIMELOCK. DIMMING SHALL BE VIA LOCAL WALL DIMMERS. PROVIDE DEDICATED CIRCUIT FOR CONTROL PANEL POWER FROM LOCAL PANEL.

AREAS WHERE NO OCCUPANCY SENSORS ARE SHOWN:
THESE AREAS SHALL BE MANUAL ON VIA WALL STATION, AUTO SWEEP OFF AT 12AM. THIS INCLUDES OPEN AREAS, CORRIDORS, AND OTHER AREAS WHERE NO OCCUPANCY SENSORS ARE INDICATED.

AREAS WHERE VACANCY SENSORS (VS) ARE SHOWN:
LIGHTING SHALL BE MANUAL ON, AUTO OFF.

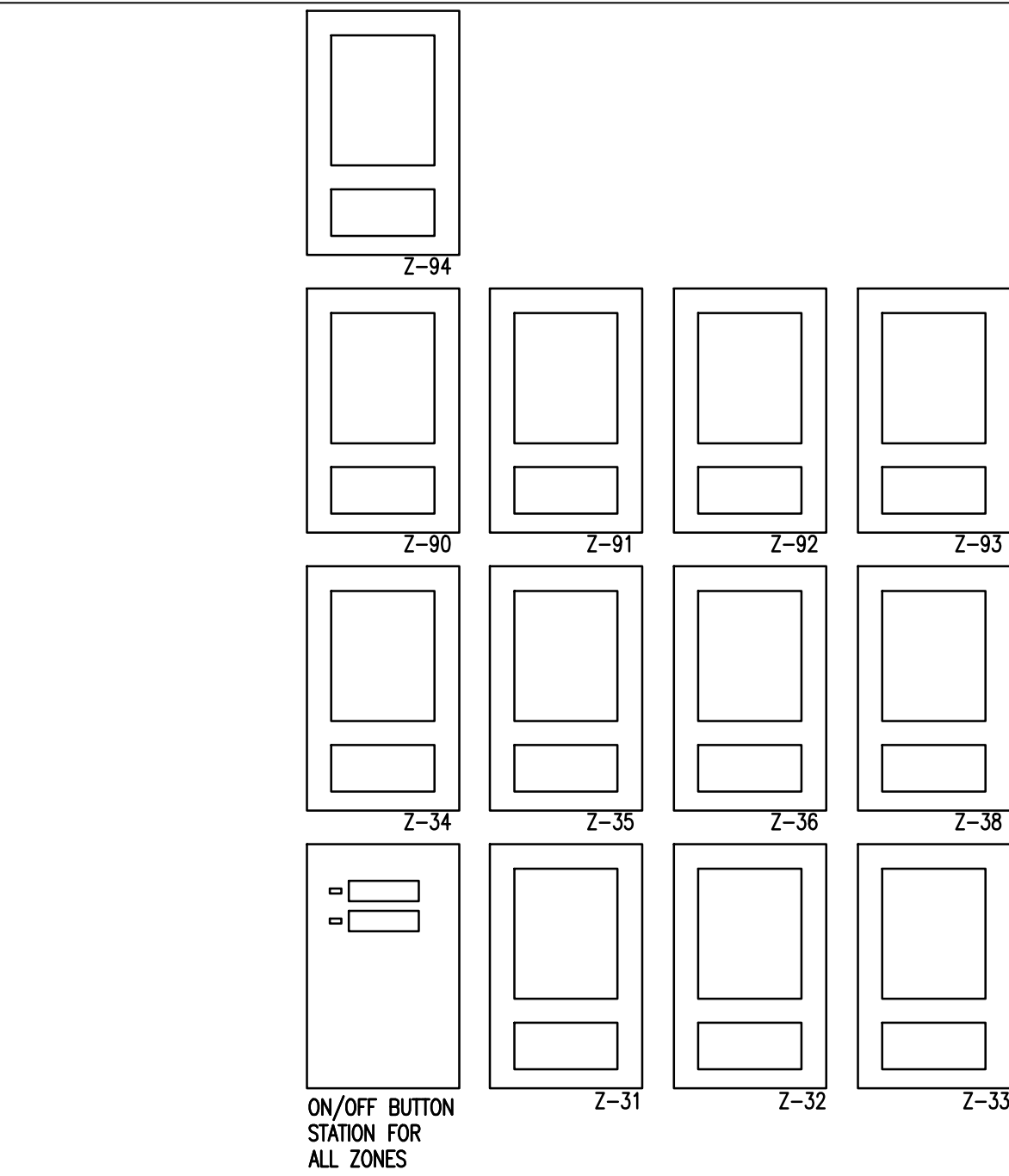
AREAS WHERE OCCUPANCY (OS) SENSORS ARE SHOWN:
LIGHTING SHALL BE AUTO ON, AUTO OFF.

SCHEDULES AND TIMING:
ALL OCCUPANCY AND VACANCY SENSORS SHALL TIME OUT AFTER 15 MINUTES. TIMELOCK SHALL BE: INTERIOR, ON AT 7AM, OFF AT 1HR PAST CLOSE, M-F, OFF ON HOLIDAYS. EXTERIOR LIGHTING SHALL BE ON AT 5PM, OFF AT 1AM WEEKDAYS, WEEKENDS, AND HOLIDAYS. LOCAL OVERRIDES SHALL PROVIDE NO MORE THAN 2 HOURS OVERRIDE ON. CONFIRM ALL SETTINGS AND SCHEDULES WITH OWNER.

SWITCH BANKS, WHERE INDICATED:
SEE SWITCH BANK DETAILS, THIS SHEET, FOR QUANTITY AND ZONING. DIMMERS SCHEMES SHOWN HERE ARE FOR DESIGN INTENT ONLY. SEE FLOOR PLAN FOR ACTUAL FIXTURES, QUANTITIES, CONTROLS, ZONES, ETC.

EXTERIOR LIGHTS:
LIGHTING SHALL BE AUTO ON BY PHOTO CELL, AUTO OFF AT 2:00AM BY TIME CLOCK.

DIMMER BACKBOXES:
PROVIDE SINGLE-GANG RING ON ALL MULTI-GANG BOXES.



FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDNSES
1	EF-58L	1	DUI80HFA	CAPTIVEAIRE	2080	1.125	1047	ODP,PREMIUM	1.500	0.6030	3	208	4.4	480 FPM	160	11.7
2	EF-58M	1	DUI80HFA	CAPTIVEAIRE	2080	1.125	1047	ODP,PREMIUM	1.500	0.6030	3	208	4.4	480 FPM	160	11.7
3	EF-58R	1	DUI80HFA	CAPTIVEAIRE	2080	1.125	1047	ODP,PREMIUM	1.500	0.6030	3	208	4.4	480 FPM	160	11.7
5	EF-59L	1	DUI80HFA	CAPTIVEAIRE	1800	1.125	1009	ODP,PREMIUM	1.500	0.5250	3	208	4.4	416 FPM	160	11.6
6	EF-59R	1	DUI80HFA	CAPTIVEAIRE	1800	1.125	1009	ODP,PREMIUM	1.500	0.5250	3	208	4.4	416 FPM	160	11.6
8	DISH	1	DUS05HA	CAPTIVEAIRE	1125	0.500	1459	ODP	0.500	0.3510	1	115	8.4	428 FPM	81	15.5

FAN UNIT NO	TAG	FAN UNIT MODEL #	CONDENSER NO	TONNAGE	VOLTAGE	PHASE	FREQUENCY	MCA	RLA	MAX FUSE SIZE	MIN WIRE SIZE	SEER
4	MUA-58	A3-D500-24D-NPU	1	5	208-230	3 PHASE	60 HZ	21.4 AMPS	17.4 AMPS	30 AMPS	10 AWG	14
			2	5	208-230	3 PHASE	60 HZ	21.4 AMPS	17.4 AMPS	30 AMPS	10 AWG	14
			3	5	208-230	3 PHASE	60 HZ	21.4 AMPS	17.4 AMPS	30 AMPS	10 AWG	14
7	MUA-59	A2-D500-20D-NPU	1	2.5	208-230	3 PHASE	60 HZ	11.2 AMPS	9.07 AMPS	20 AMPS	14 AWG	14
			2	5	208-230	3 PHASE	60 HZ	21.4 AMPS	17.4 AMPS	30 AMPS	10 AWG	14

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOP	WEIGHT (LBS)	SQMS
4	MUA-S8	1	A3-D-500-24D-MPU	24MF-3-MOD	A3-D-500	3500	5400	0.500	1659	ODP, PREMIUM	10.000	7.9450	3	208	27.0	33.8A	60A	2382	181
7	MUA-S9	1	A2-D-500-20D-MPU	20MF-2-MOD	A2-D-500	2000	2850	0.500	1457	ODP, PREMIUM	2.000	1.6030	3	208	6.1	7.7A	15A	1505	13.9

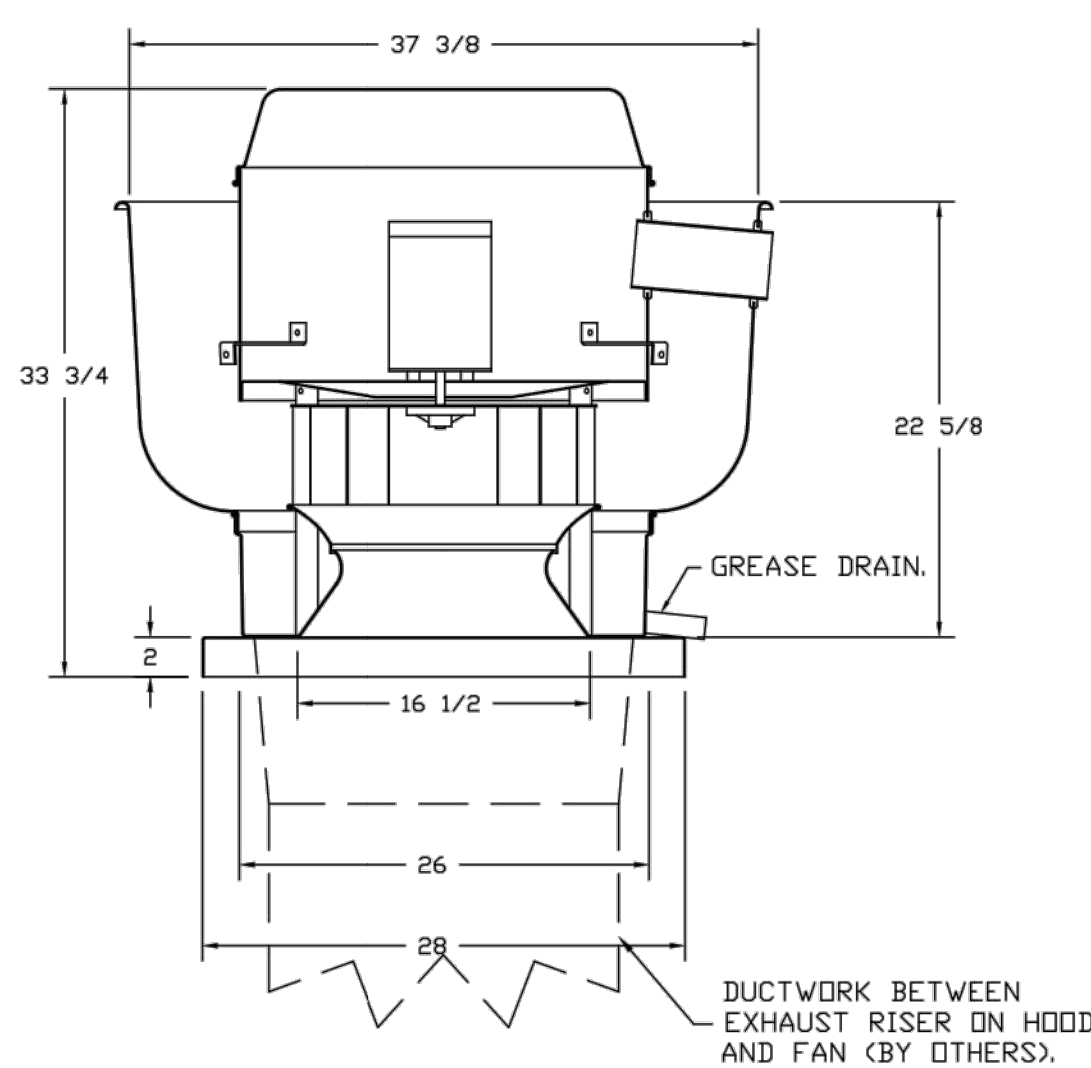
FAN UNIT NO	TAG	INPUT BTU	OUTPUT BTU	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
4	MUA-58	393295	361831	65°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92
7	MUA-59	207572	190966	65°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

[illegible]

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-58L	1	GREASE BOX.
		1	UPBLAST FAN WHEEL ACCESS PORT.
		1	EXHAUST FAN HEAT BAFFLE.
		1	2 YEAR PARTS WARRANTY.
2	EF-58M	1	GREASE BOX.
		1	UPBLAST FAN WHEEL ACCESS PORT.
		1	EXHAUST FAN HEAT BAFFLE.
		1	2 YEAR PARTS WARRANTY.
3	EF-58R	1	GREASE BOX.
		1	UPBLAST FAN WHEEL ACCESS PORT.
		1	EXHAUST FAN HEAT BAFFLE.
		1	2 YEAR PARTS WARRANTY.
		1	INLET PRESSURE GAUGE, 0-35".
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC.
4	MUA-58	1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED.
		1	MOTORIZED BACKDRAFT DAMPER FOR A3-D HOUSING. MEETS AMCA CLASS 1A RATING.
		1	TOTAL CFM MONITORING FOR MUA UNITS.
		1	15 TON 3 CIRCUIT (5/5/5) MODULAR PACKAGED AC COOLING OPTION FOR SIZE 3 DF/EH MUA (2250 TO 4800 CFM), 208V/230V, 3 PHASE. COOLING THERMOSTAT OR PROGRAMMABLE STAT REQUIRED FOR PROPER OPERATION.
		1	DOWNTURN PLENUM FDR SIZE 3 DX COIL MODULE.
		1	MPU3-15-AC MOISTURE ELIMINATOR OPTION - ALLOWS COOLING COIL FACE VELOCITY TO INCREASE TO 650 FPM. INCREASES COOLING COIL MAX CFM TO 5650 CFM.
5	EF-59L	1	CONDENSER SUPPORT FOR SIZE 3, 15 TON MOD PACKAGE UNIT.
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY.
		1	2 YEAR PARTS WARRANTY.
		1	GREASE BOX.
6	EF-59R	1	UPBLAST FAN WHEEL ACCESS PORT.
		1	EXHAUST FAN HEAT BAFFLE.
		1	2 YEAR PARTS WARRANTY.
		1	GREASE BOX.
7	MUA-59	1	UPBLAST FAN WHEEL ACCESS PORT.
		1	EXHAUST FAN HEAT BAFFLE.
		1	2 YEAR PARTS WARRANTY.
		1	INLET PRESSURE GAUGE, 0-35".
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC.
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED.
8	DISH	1	MOTORIZED BACKDRAFT DAMPER FOR A2-D HOUSING. MEETS AMCA CLASS 1A RATING.
		1	TOTAL CFM MONITORING FOR MUA UNITS.
		1	7.5 TON 2 CIRCUIT (2.5/5) MODULAR PACKAGED AC COOLING OPTION FOR SIZE 2 DF/EH MUA (125 TO 3000 CFM), 208V/230V, 3 PHASE. COOLING THERMOSTAT OR PROGRAMMABLE STAT REQUIRED FOR PROPER OPERATION.
		1	DOWNTURN PLENUM FDR SIZE 2 DX COIL MODULE.
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY.
		1	SIZE 2 DIRECT FIRED HEATER LOW CFM PROFILE PACKAGE. USED ON HEATERS UNDER 2500 CFM.
9	DISH	1	2 YEAR PARTS WARRANTY.
		1	SCR-13 BIRD SCREEN.
		1	1 IS-BDD DAMPER.
10	DISH	1	2 YEAR PARTS WARRANTY.
		1	1 IS-BDD DAMPER.

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF-59L	YES						
2	EF-58M	YES						
3	EF-58R	YES						
4	MUA-58						YES	
5	EF-59L	YES						
6	EF-59R	YES						
7	MUA-59						YES	
8	DISH		YES					

NO	DN FAN	TAG	WEIGHT	ITEM	SIZE	
1	# 1	EF-S8L	38 LBS	CURB	26.500"W X 26.500"L X 24.000"H HINGED.	0.25012.000 PITCH ALONG LENGTH, RIGHT VENTED
2	# 2	EF-S8M	38 LBS	CURB	26.500"W X 26.500"L X 24.000"H HINGED.	0.25012.000 PITCH ALONG LENGTH, RIGHT VENTED
3	# 3	EF-S8R	38 LBS	CURB	26.500"W X 26.500"L X 24.000"H HINGED.	0.25012.000 PITCH ALONG LENGTH, RIGHT VENTED
4	# 4		144 LBS	RAIL	6.000"W X 35.000"L X 20.000"H	0.25012.000 PITCH ALONG LENGTH, RIGHT.
4	# 4	MUA-S8	144 LBS	CURB	35.000"W X 84.000"L X 20.000"H	0.25012.000 PITCH ALONG WIDTH, RIGHT INSULATED.
4	# 4			RAIL	6.000"W X 35.000"L X 20.000"H	0.25012.000 PITCH ALONG LENGTH, RIGHT.
5	# 5	EF-S9L	38 LBS	CURB	26.500"W X 26.500"L X 24.000"H HINGED.	0.25012.000 PITCH ALONG LENGTH, RIGHT VENTED
6	# 6	EF-S9R	34 LBS	CURB	26.500"W X 26.500"L X 24.000"H	0.25012.000 PITCH ALONG LENGTH, RIGHT VENTED.
7	# 7		107 LBS	RAIL	6.000"W X 31.000"L X 20.000"H	0.25012.000 PITCH ALONG LENGTH, RIGHT.
7	# 7	MUA-S9	107 LBS	CURB	31.000"W X 79.000"L X 20.000"H	0.25012.000 PITCH ALONG WIDTH, RIGHT INSULATED.
8	# 8		34 LBS	DISH	19.500"W X 19.500"L X 24.000"H HINGED.	0.25012.000 PITCH ALONG LENGTH, RIGHT VENTED

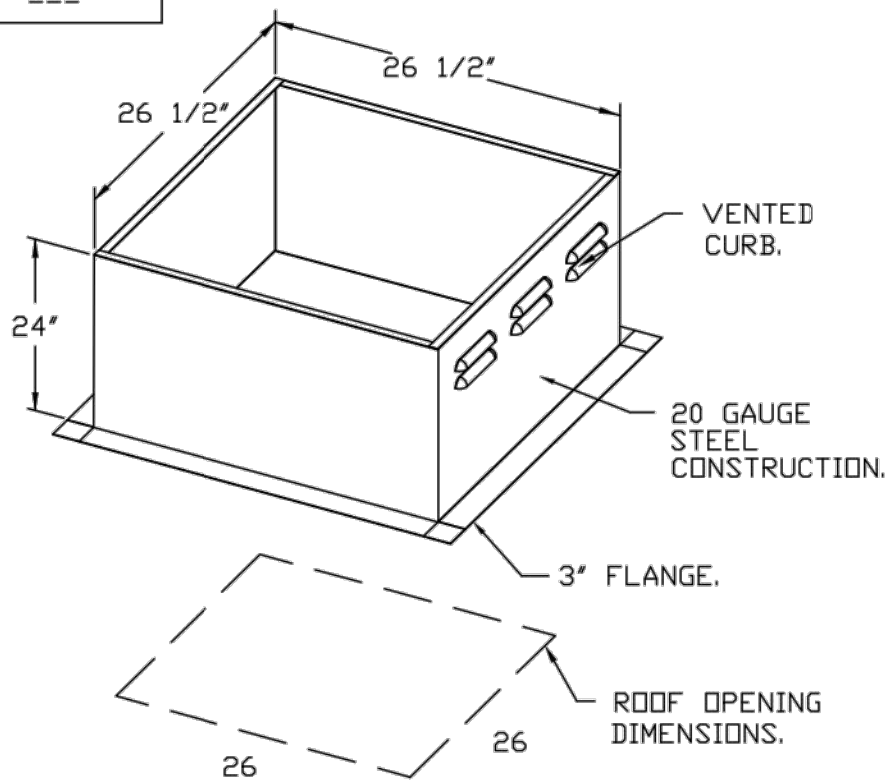


- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE OF TEST EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

GREASE BOX.
UPBLAST FAN WHEEL ACCESS PORT.
EXHAUST FAN HEAT BAFFLE.
2 YEAR PARTS WARRANTY.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.



The diagram shows a right-angled triangle representing a curb cross-section. The horizontal base is labeled 12'. The vertical height is labeled 1/4". The angle between the base and the hypotenuse is labeled 1°.

Verify Electric Requirements to Ensure That
Fan Motors and Electric Packages are Coordinated

Curb Pitch Required in order to
manufacture the curb to specification.

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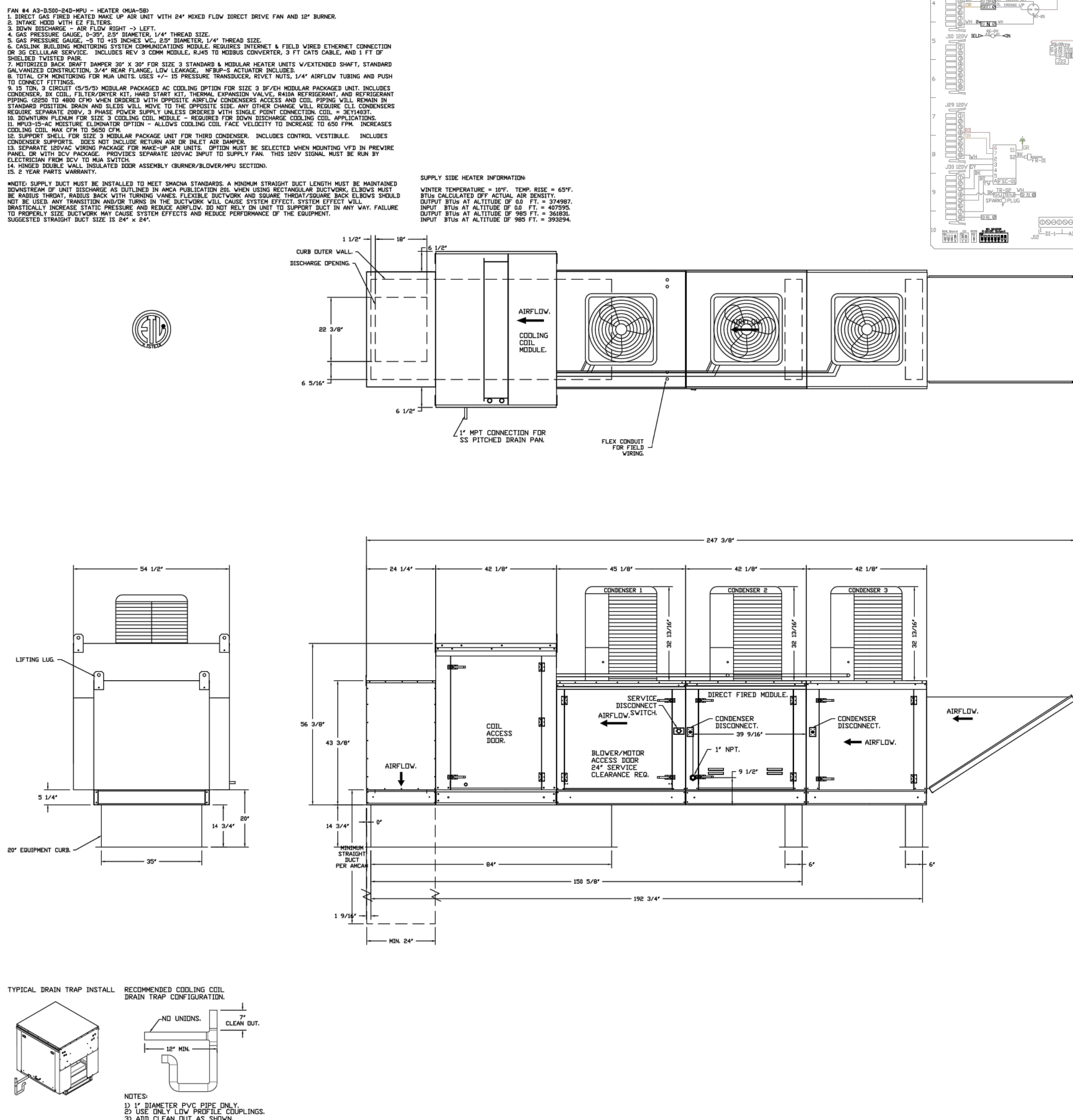
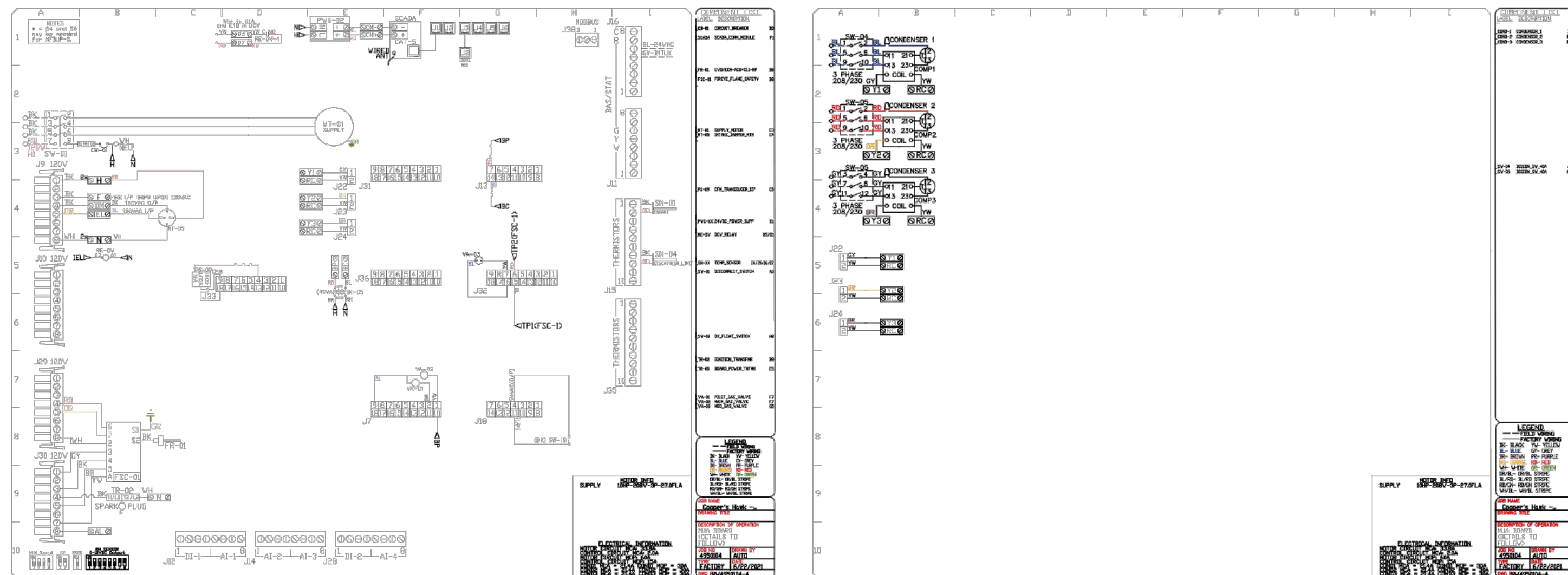
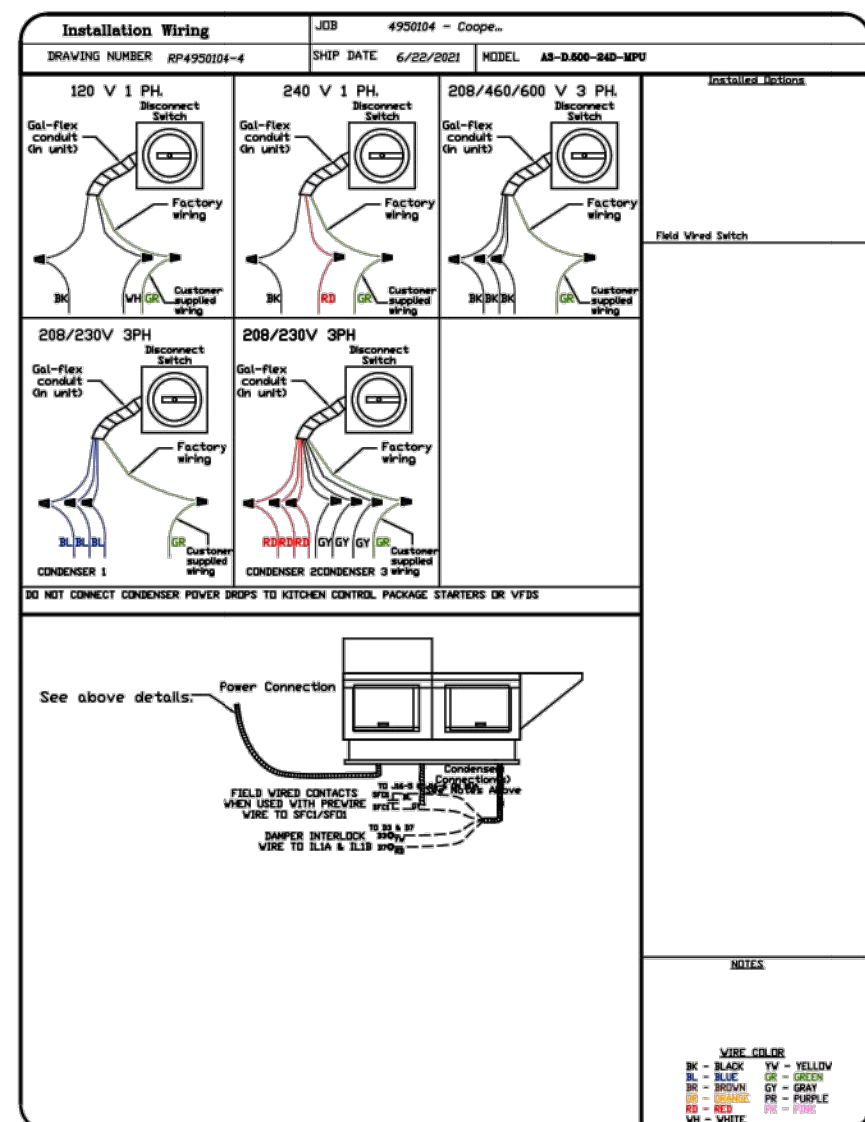
E107

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Cooper's Hawk - Lees Summit, MO
LEES SUMMIT, MO, 64063

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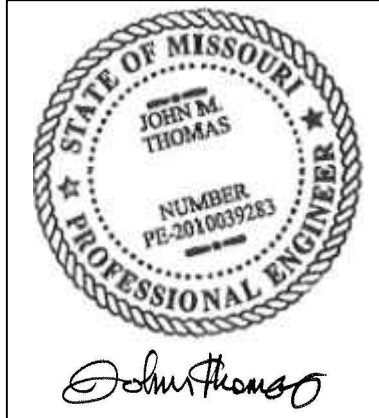


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REVISIONS		



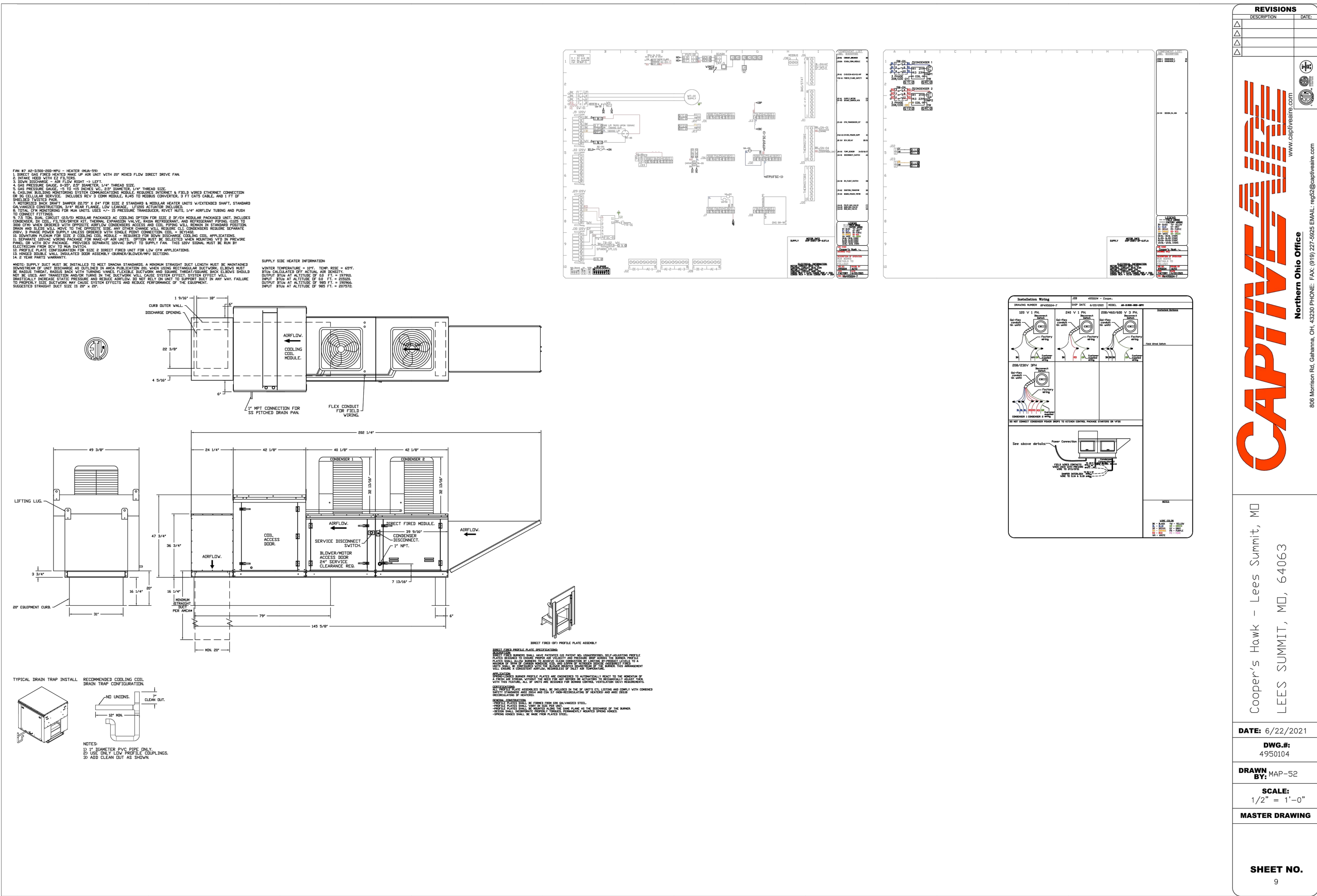
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Job No. 204530	Drawn —
Scale SEE PLANS	Date 08/06/2021

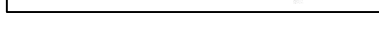
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NO EQUIPMENT SHALL BE INSTALLED WITHOUT APPROVED SHOP DRAWINGS.



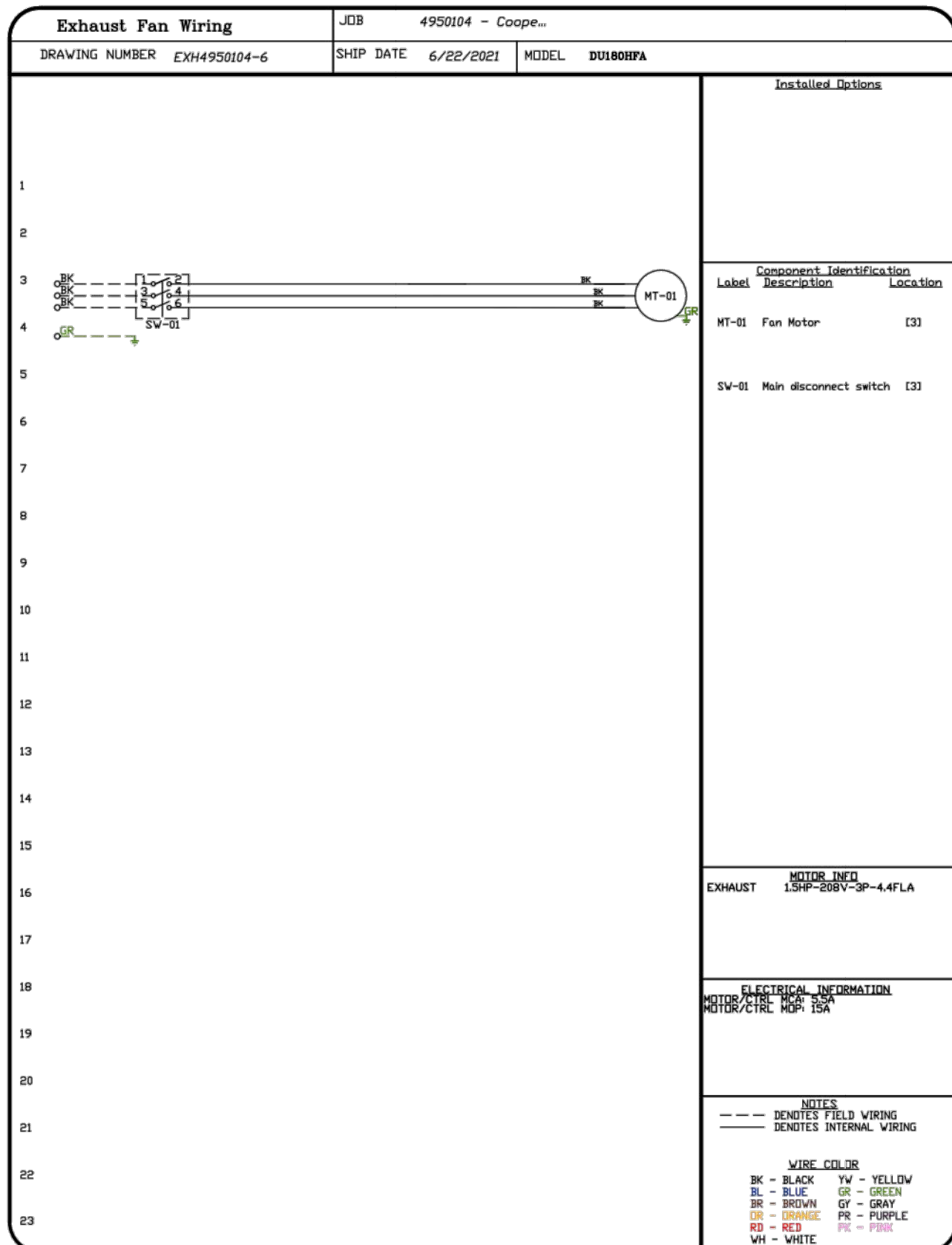
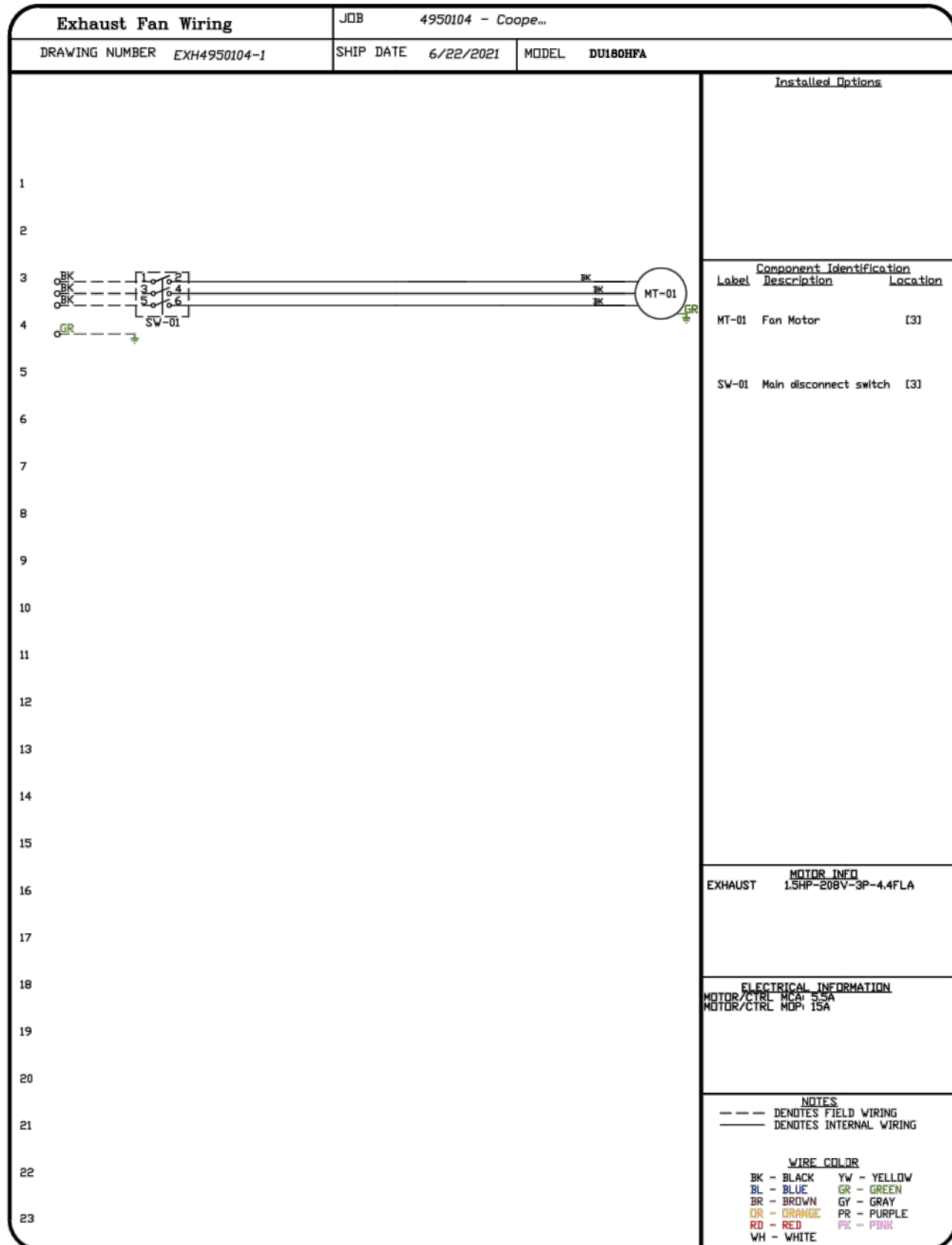
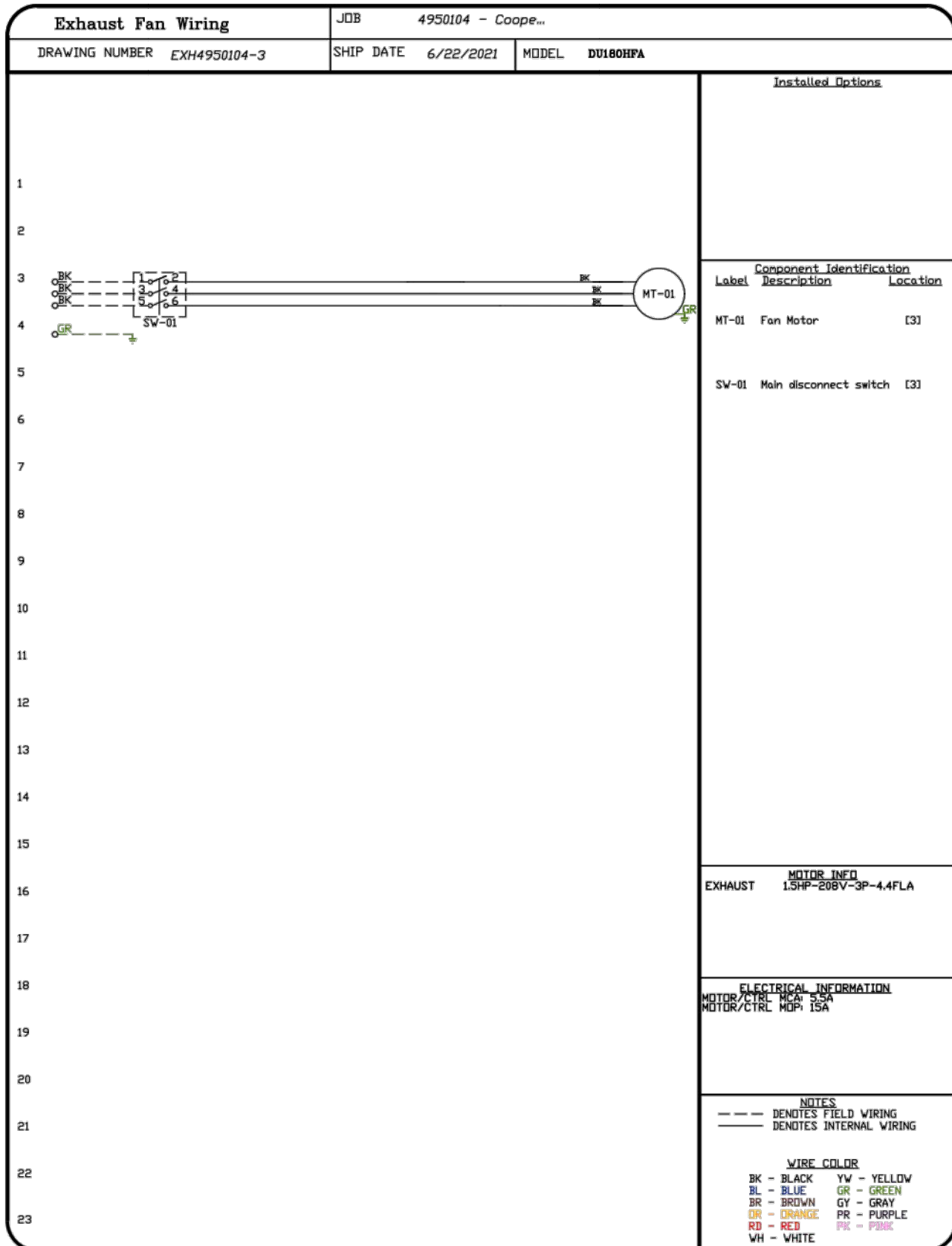
	2021/08/19	ISSUED FOR PERMIT
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REVISIONS		

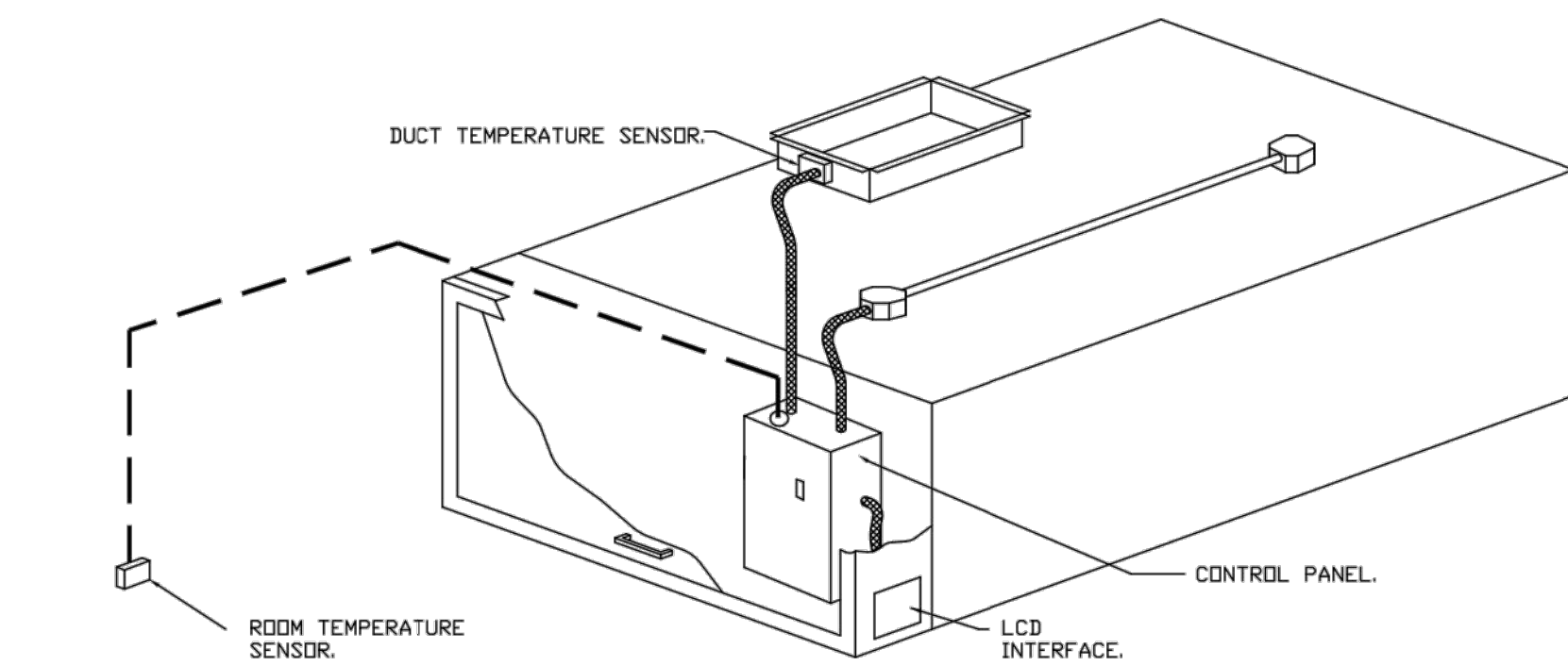


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SEQUENCE OF OPERATIONS:

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DESCRIPTION	DATE:
△	
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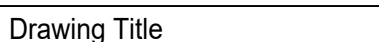
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DWG.#
4950104

SCALE:
3/4" = 1'-0"

SHEET NO.
12

STRUCTURE, W
REQUIRED TO RE
ACROSS ALL

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HOOD DETAILS

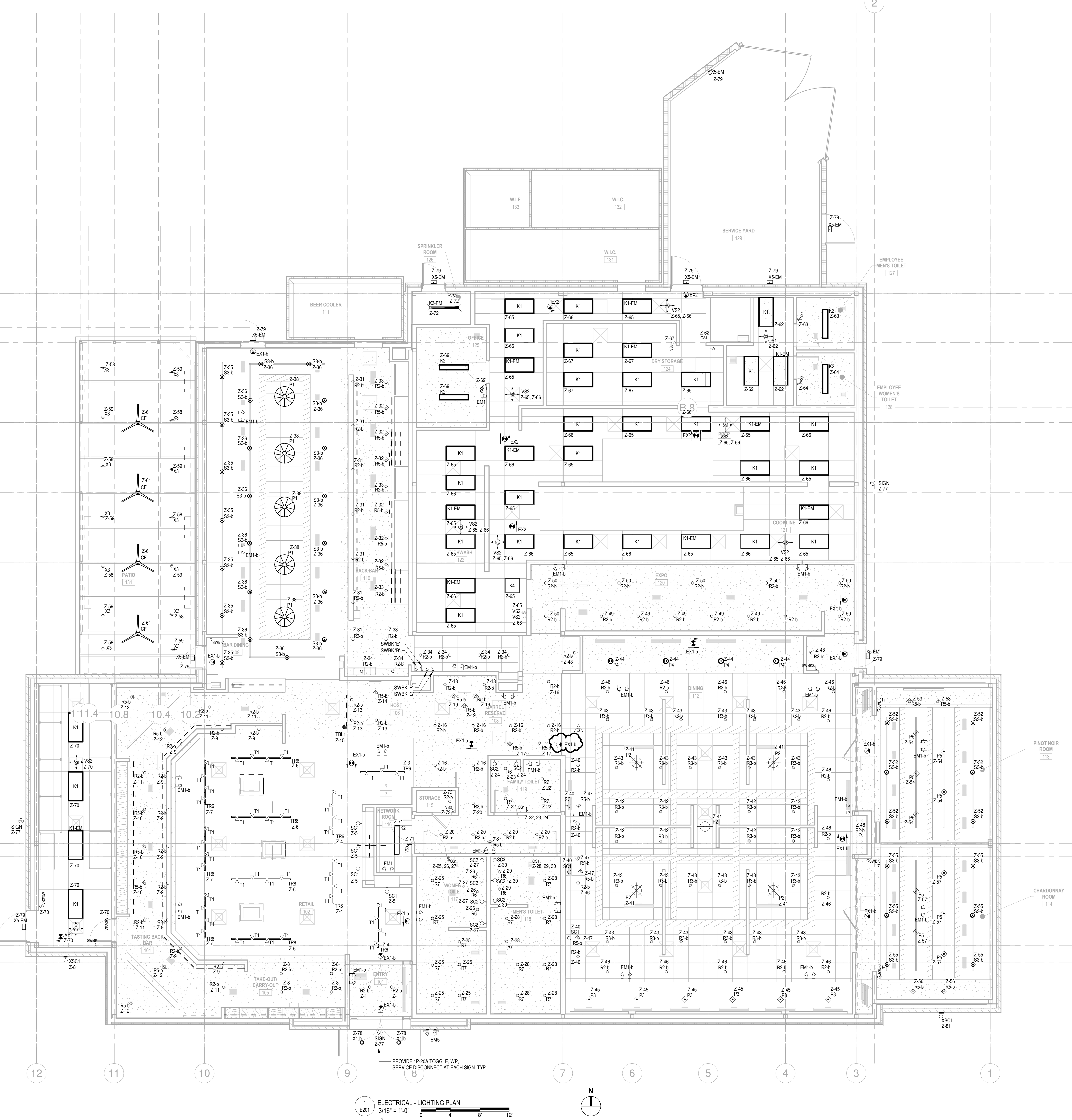
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E111

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A
A.5
B
C
D.2
E
F
F.8
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1 ELECTRICAL - LIGHTING PLAN
E201 3/16" = 1'-0"

ELECTRICAL KEYNOTES	
KEY VALUE	KEYNOTE TEXT

LIGHTING GENERAL NOTES

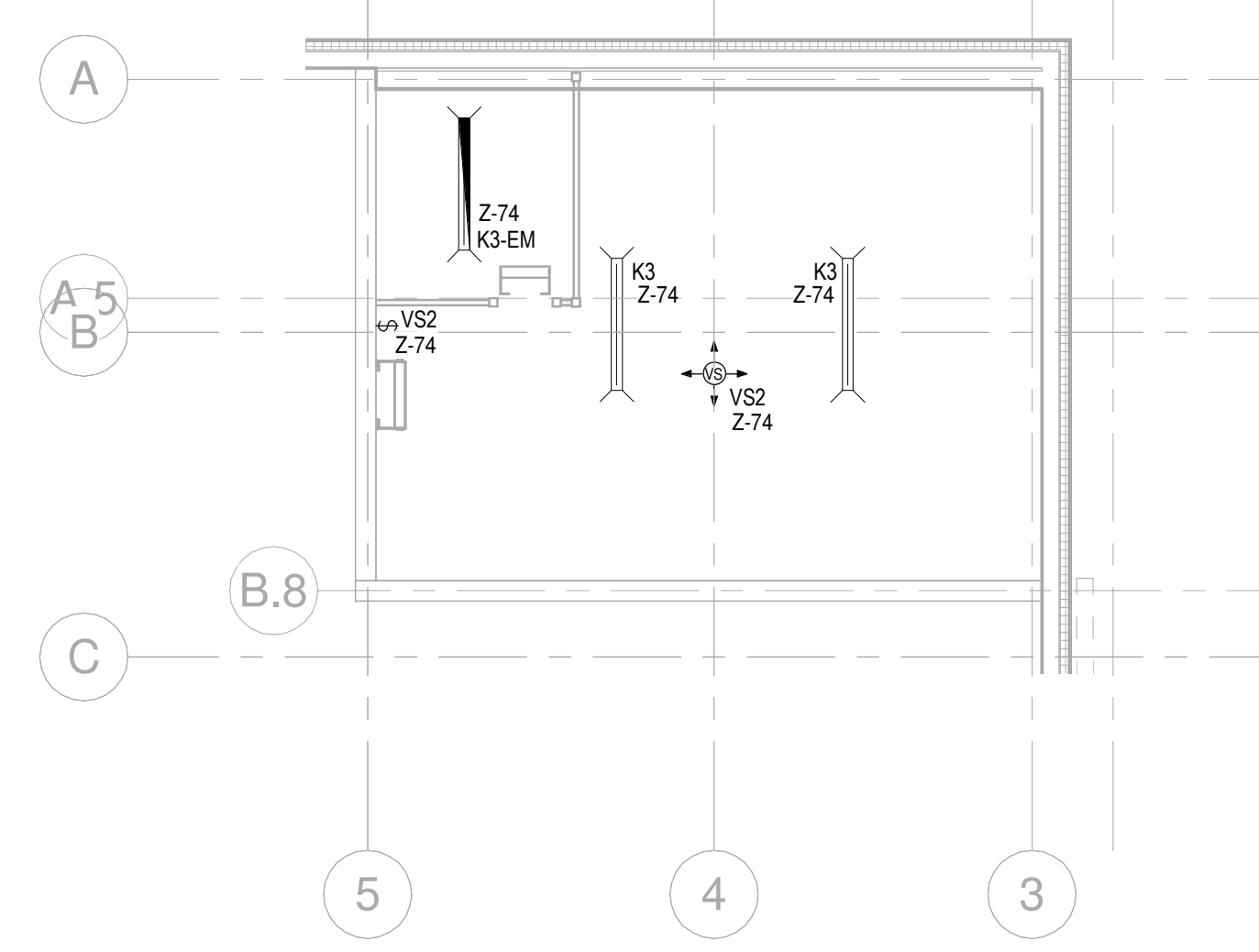
- ALL 20A BRANCH CIRCUITS SHALL USE #12AWG CONDUCTORS IN 3/4" MINIMUM. CONTRACTOR SHALL PROVIDE HOMERUNS TO ELECTRICAL PANELS AS REQUIRED. EACH CIRCUIT SHALL CONTAIN A DEDICATED NEUTRAL CONDUCTOR FOR A MAX. OF (1) NETWORK PER HOMERUN. ALL FEEDERS OR BRANCH CIRCUITS GREATER THAN 75' IN LENGTH SHALL BE INCREASED IN SIZE AS REQUIRED TO COMPENSATE FOR VOLTAGE DROP.
- LOCATE EXIT SIGNS AND DOWNLIGHTS IN THE CENTER OF CEILING TILES WHERE POSSIBLE. CIRCUIT ALL EXIT SIGNS TO PANEL LP1-35.
- REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS OF DEVICES.
- REFER TO AUTOMATIC LIGHTING CONTROL SCHEDULE FOR INFORMATION ON OCCUPANCY/VACANCY SENSORS AND DAYLIGHT SENSORS.
- BATTERY EMERGENCY LIGHTING SHALL BE CONNECTED TO THE ROOM LIGHTING CIRCUIT. AHEAD OF ANY SWITCH OR CONTROL. FOR CONTINUOUS OPERATION. EXIT SIGNS SHALL BE CONNECTED TO A DEDICATED LOCK ON CIRCUIT AND SHALL BE PROVIDED WITH A DEDICATED FEEDER AND HOMERUN.
- ALL EGRESS LIGHTS SHALL BE PROVIDED WITH DUAL LAMPS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT FIXTURE LOCATIONS FOR GENERAL LIGHTING. EXIT SIGN AND EMERGENCY LIGHTING SHALL BE BASED ON THE ENGINEERING PLANS. SUBMIT EXISTING AND EMERGENCY LIGHTING LAYOUT TO CITY OFFICIALS PER SPECIFICATIONS AND ADJUST LOCATIONS AS REQD. PROVIDE PER UNIT COST IN BID FOR FUTURE EACH ADDED EXIT SIGN AND/OR BATTERY EM LIGHT.
- COORDINATE THE EXACT MOUNTING OF ALL EXIT SIGNS WITH ARCHITECT PRIOR TO ORDERING. COORDINATE LOCATIONS WITH DOOR SWINGS, SLOTTES, OBSTRUCTIONS, ETC TO AVOID CONFLICTS. PROVIDE PENDANTS AS REQUIRED. PROVIDE DUAL FACES AND DIRECTIONAL ARROWS AS REQUIRED.
- WHERE MULTIPLE SWITCHES ARE MOUNTED AT THE SAME LOCATION. ELECTRICAL CONTRACTOR SHALL PROVIDE A SINGLE COMMON FACEPLATE WHENEVER POSSIBLE. UTILIZE TAP SWITCHES TO MATCH DIMMERS WHERE APPLICABLE. REFER TO POWER PLANS FOR ANY MOTORIZED SCREEN OR EXHAUST FAN CONTROLS.
- COORDINATE INSTALLATION OF DIMMER SWITCHES WITH MANUFACTURERS REQUIREMENTS. DE-RATE GANGED SWITCHES AS REQUIRED. PROVIDE MINIMUM OF 4 1/2" VERTICAL SPACING BETWEEN DIMMER SWITCHES.
- TYPICAL-ALL NEW UNDER CABINET LIGHTING FIXTURES; COORDINATE EXACT LENGTHS AND INFED POINTS WITH MILLWORK CONTRACTOR.
- E.C. SHALL COORDINATE EXIT SIGN AND BATTERY LIGHT INSTALLATION WITH ARCHITECTURAL FINISH PLAN. IN GENERAL BLACK FIXTURES SHALL BE PLACED IN LOCATIONS WITH DARK FINISHES.
- E.C. SHALL CONFIRM WITH LOCATION AHJ AND SPECIAL REQUIREMENTS FOR EXIT SIGNS PRIOR TO PURCHASE SUCH AS REQUIREMENTS FOR GREEN LETTERING, ETC.
- SITE MONUMENT SIGN SHALL BE CONNECTED TO LP1-36. ROUTE CIRCUIT THROUGH RELAY PANEL FOR ON/OFF CONTROL. PROVIDE 1P-20A, NEMA 3R DISCONNECT SWITCH AT SIGN. COORDINATE FINAL LOCATION OF SIGN WITH LANDLORD. REFER TO ARCHITECTURAL SITE LIGHTING PLAN FOR CURRENT LOCATION.
- ALL SITE LIGHTING FIXTURES SHALL BE CONNECTED TO LP1-54/56. ROUTE CIRCUIT THROUGH RELAY PANEL FOR ON/OFF CONTROL. ADJUST AS REQUIRED. ALL SITE LIGHTING FIXTURES SHALL BE EQUIPPED WITH ON BOARD PHOTOCELL. REFER TO ARCHITECTURAL SITE LIGHTING PLAN FOR MORE INFORMATION.

LIGHTING WITHIN FURNITURE-MILL WORK

- FURNITURE WITHIN MILLWORK, FURNITURE, UNDER CABINETS, COUNTERS, SHELVING, ETC. SHALL BE COORDINATED IN FIELD WITH ARCHITECT AND OWNER.
- PROVIDE DRIVERS/TRANSFORMERS IN A CONCEALED, ACCESSIBLE LOCATION AS REQUIRED. COORDINATE EXACT LOCATION WITH ARCHITECT.
- ROUTING OF ALL FIXTURE WIRING SHALL BE CONCEALED AND RUN IN A NEAT AND WORKMANLIKE MANNER.

PROJECT SPECIFIC NOTES

- E.C. SHALL COORDINATE EXIT SIGN AND BATTERY LIGHT INSTALLATION WITH ARCHITECTURAL FINISH PLAN. IN GENERAL BLACK FIXTURES SHALL BE PLACED IN LOCATIONS WITH DARK FINISHES.
- E.C. SHALL CONFIRM WITH LOCATION AHJ AND SPECIAL REQUIREMENTS FOR EXIT SIGNS PRIOR TO PURCHASE SUCH AS REQUIREMENTS FOR GREEN LETTERING, ETC.
- REFER TO CONTROL DETAILS FOR MORE INFORMATION.



2 ELECTRICAL LIGHTING PLAN - MEZZANINE
E201 3/16" = 1'-0"

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RELEASE FOR
CONSTRUCTION
AS NOTED ON P. 1 HAS BEEN
REVIEWED
DEVELOPMENT SERVICES
LEES SUMMIT, MISSOURI
09/04/2021

BTR
ENGINEERING
ARCHITECTURE

540 NW CHIPMAN
ROAD, LEES SUMMIT,
MO 64086

COOPER'S HAWK
WINE & RESTAURANT

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Drawing Title
**ELECTRICAL -
LIGHTING PLAN**

Job No.
204530

Scale
As indicated

Drawn
Author

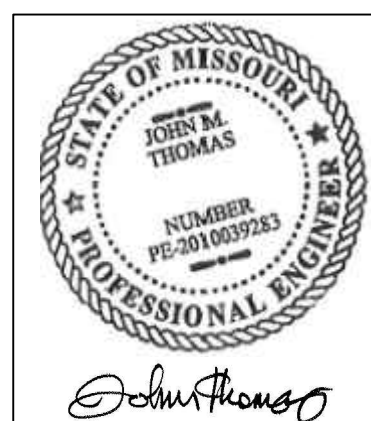
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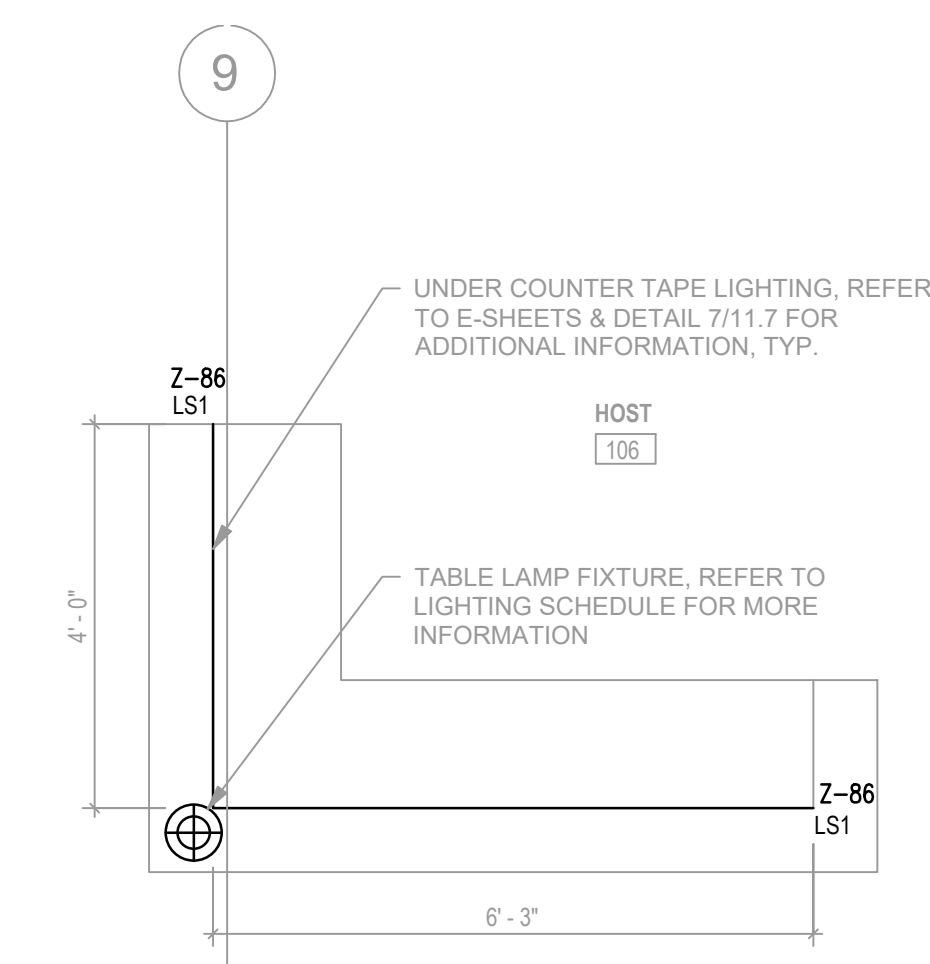
Drawing Title

MISCELLANEOUS
LIGHTING PLAN

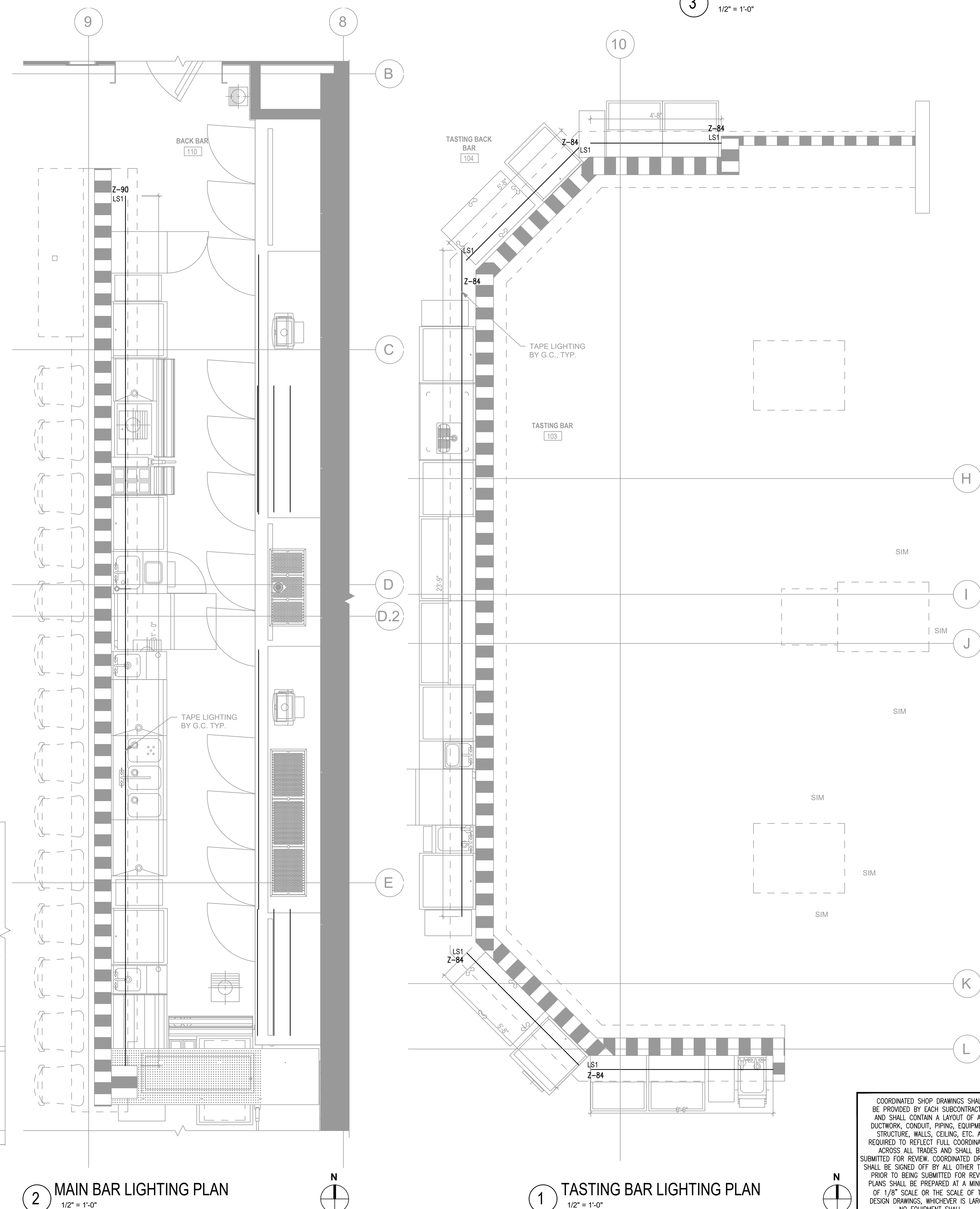
Job No. 204530	Drawn
Scale 1/2"=1'-0"	Date 08/06/2021

Sheet No.

E202



3 HOST STAND LIGHTING PLAN

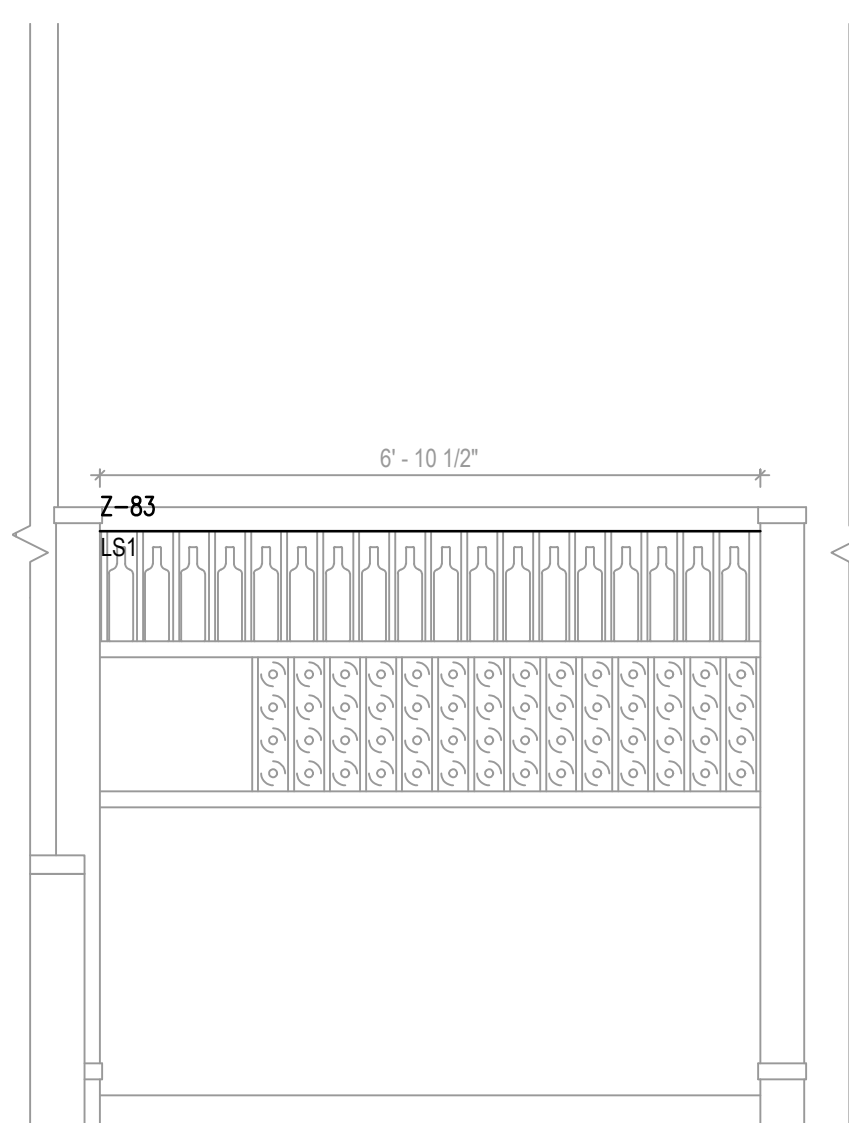


2 MAIN BAR LIGHTING PLAN
1/2" = 1'-0"

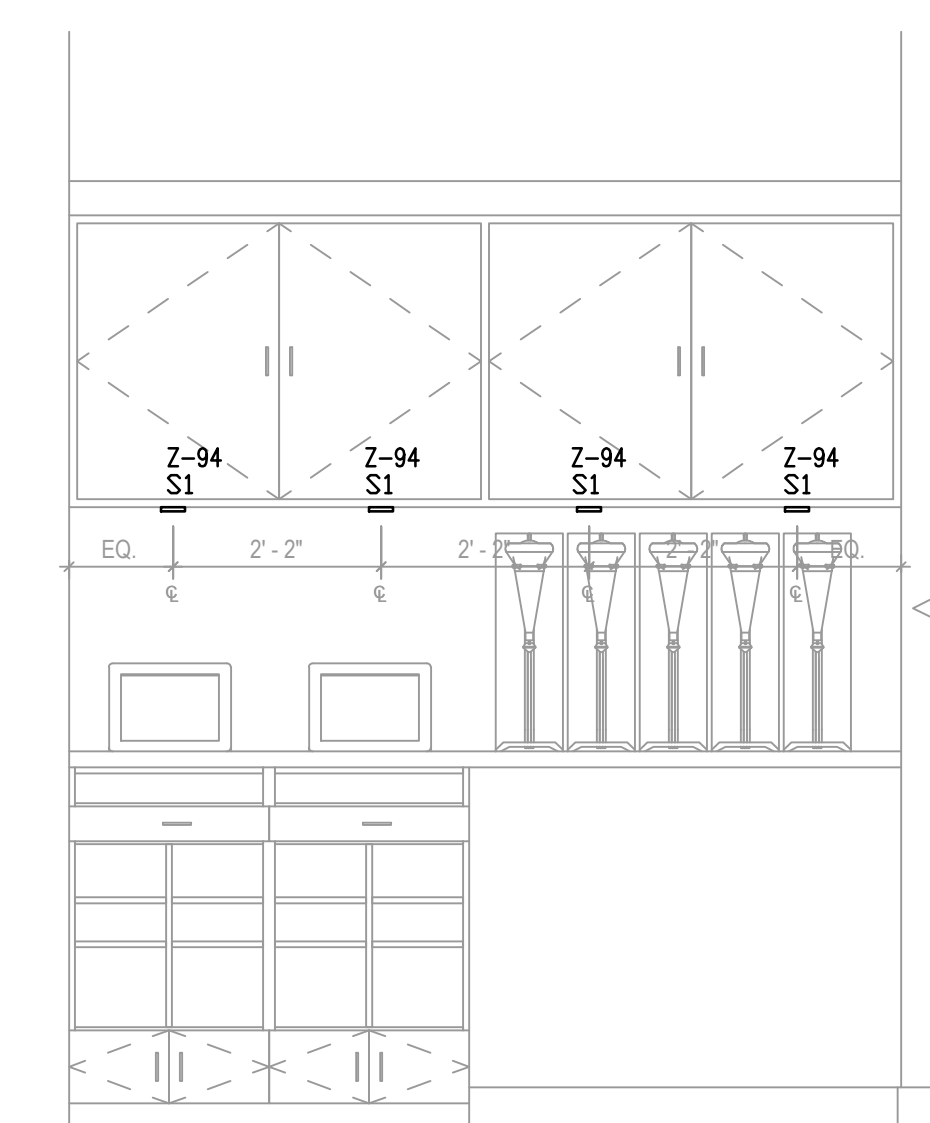
1 TASTING BAR LIGHTING PLAN
1/2" = 1'-0"

COORDINATED SHOP DRAWINGS SHALL BE PROVIDED BY EACH SUBCONTRACTOR AND SHALL CONTAIN A LAYOUT OF ALL DUCTWORK, CONDUIT, PIPING, EQUIPMENT, STRUCTURE, WALLS, CEILING, ETC. AS REQUIRED TO REFLECT FULL COORDINATION ACROSS ALL TRADES AND SHALL BE SUBMITTED FOR REVIEW. COORDINATED DRAWING SHALL BE SIGNED OFF BY ALL OTHER TRADES PRIOR TO BEING SUBMITTED FOR REVIEW. PLANS SHALL BE PREPARED AT A MINIMUM OF 1/8" SCALE OR THE SCALE OF THE DESIGN DRAWINGS, WHICHEVER IS LARGER.

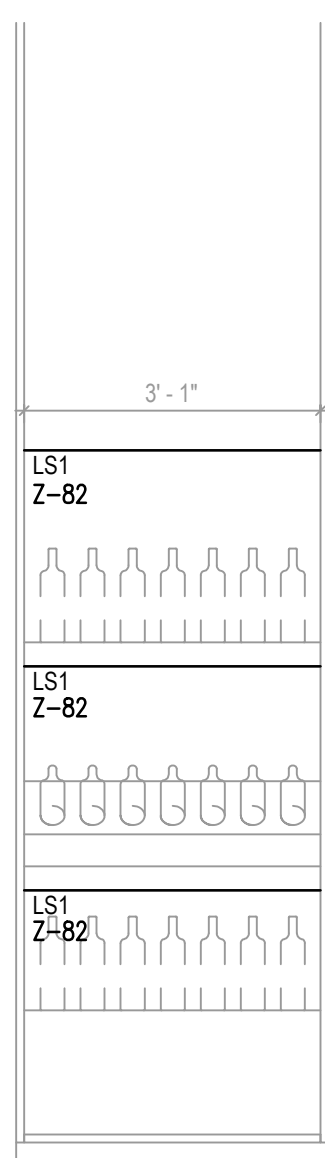
NO EQUIPMENT SHALL BE INSTALLED WITHOUT APPROVED SHOP DRAWINGS.



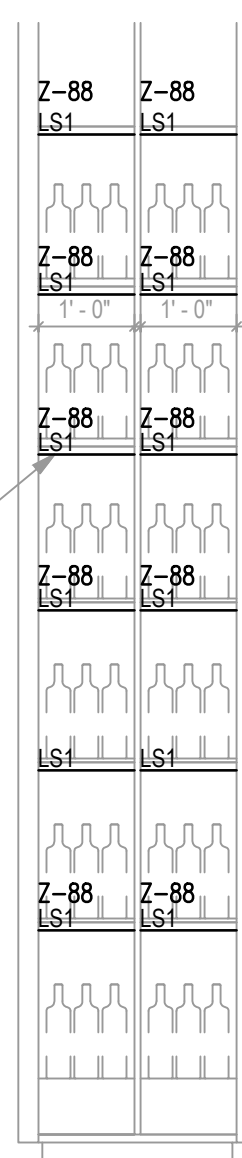
12 LIGHTING ELEVATION
1/2" = 1'-0"



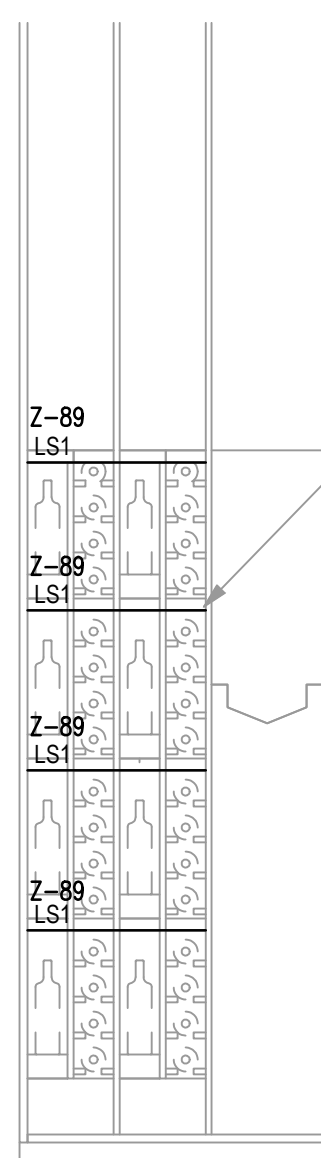
13 LIGHTING ELEVATION
1/2" = 1'-0"



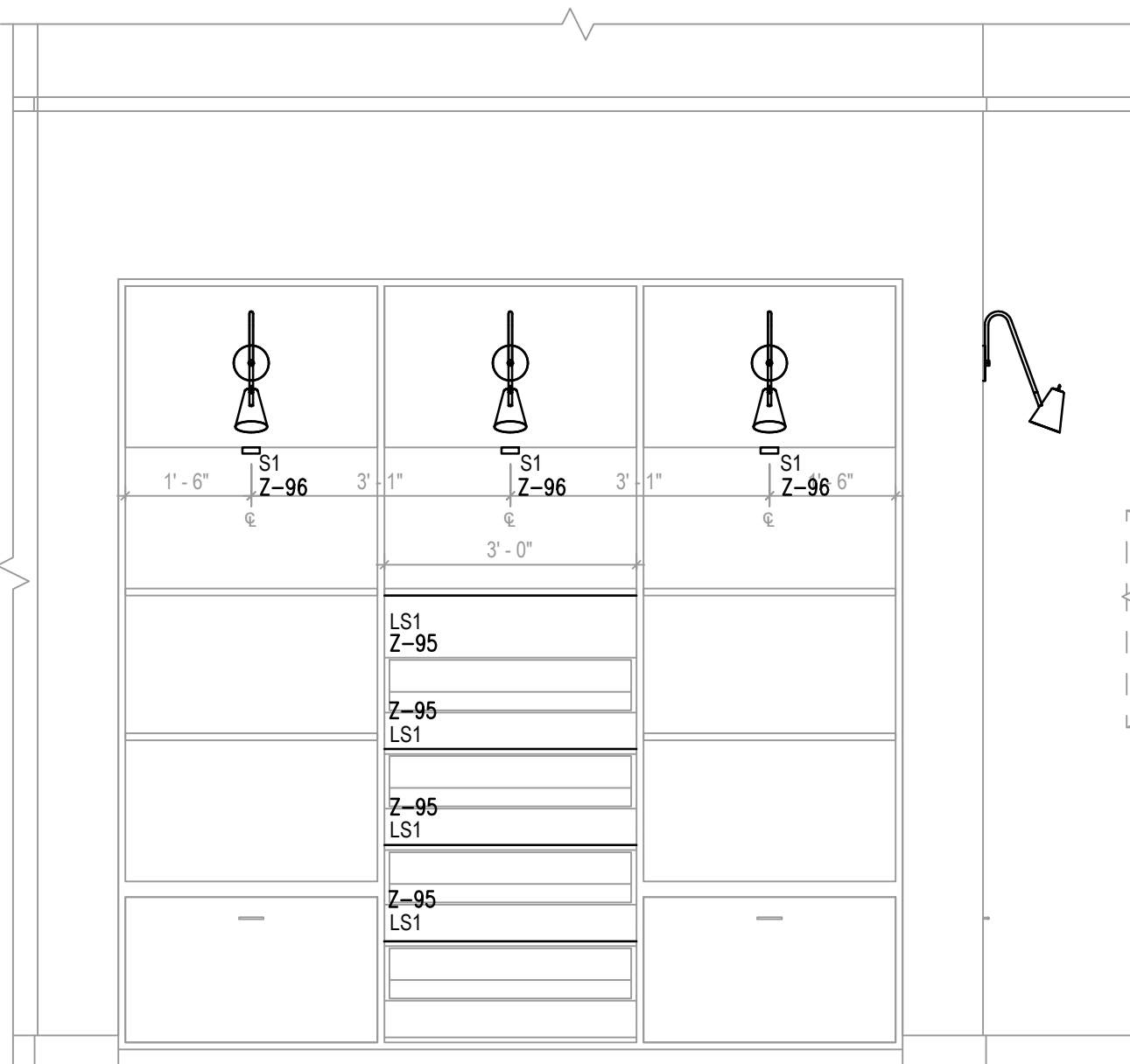
9 LIGHTING ELEVATION
1/2" = 1'-0"



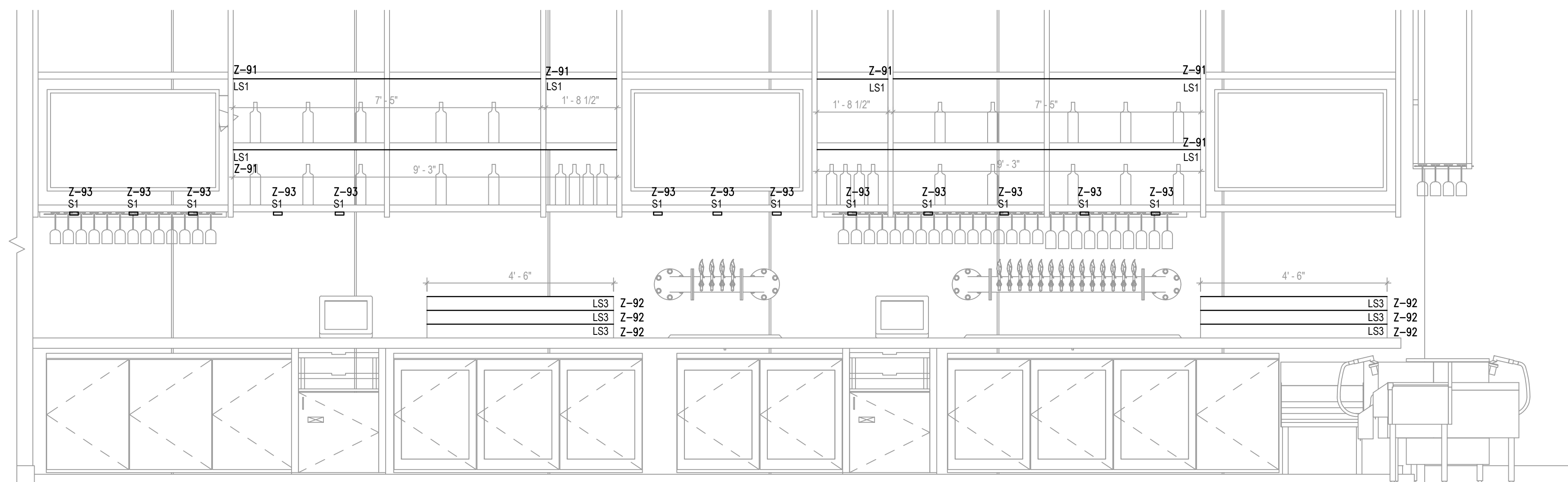
10 LIGHTING ELEVATION
1/2" = 1'-0"



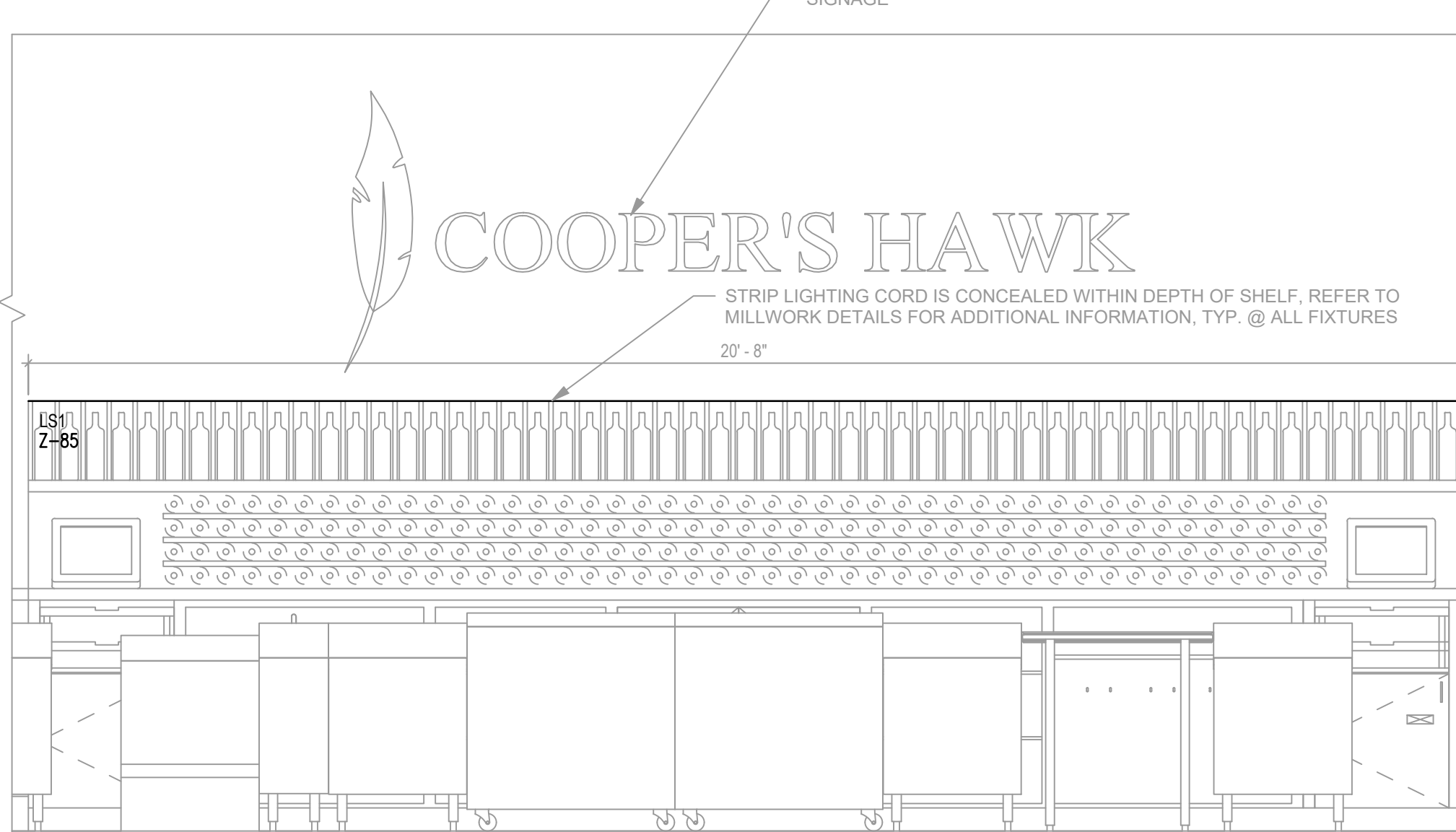
11 LIGHTING ELEVATION
1/2" = 1'-0"



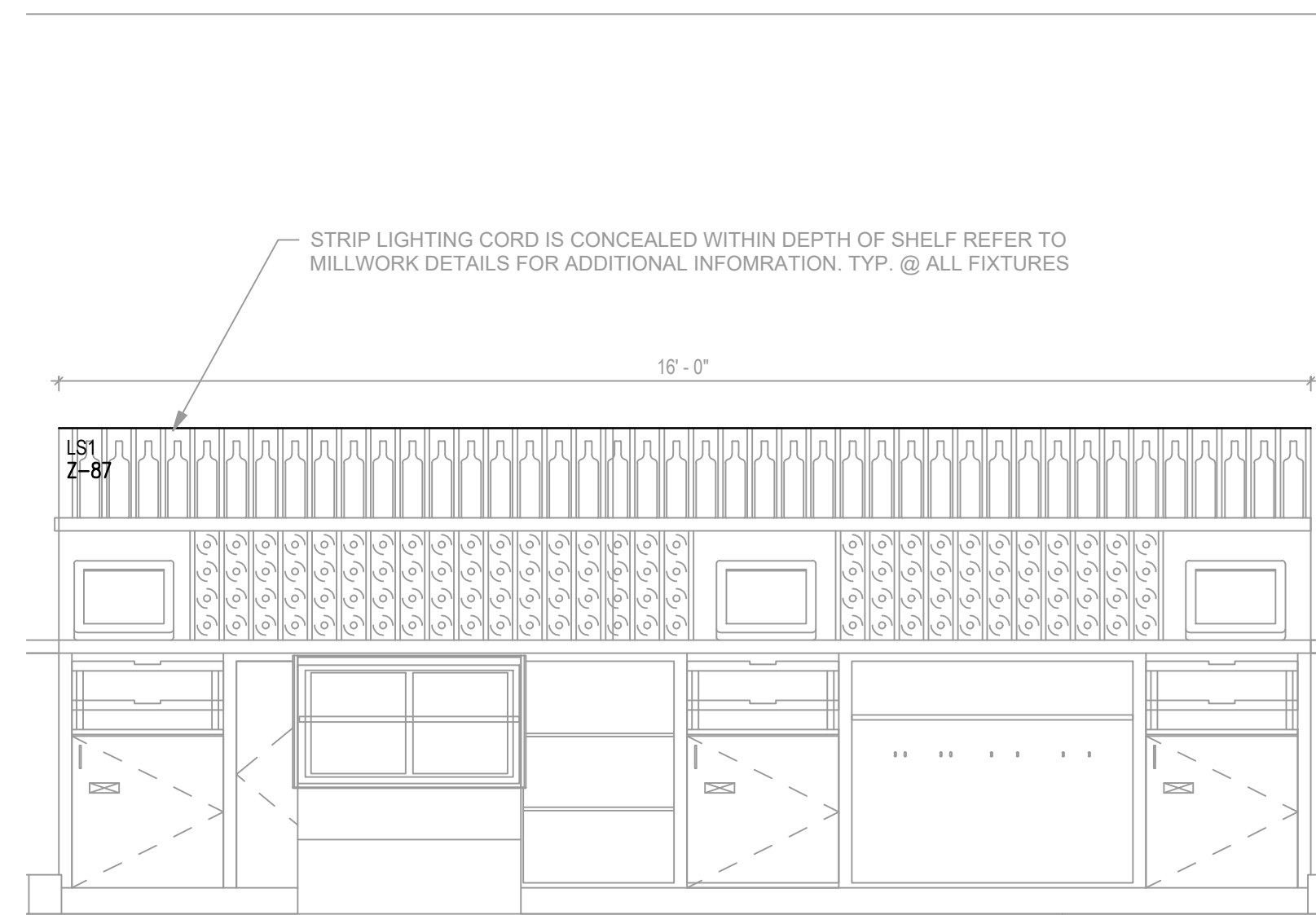
14 LIGHTING ELEVATION



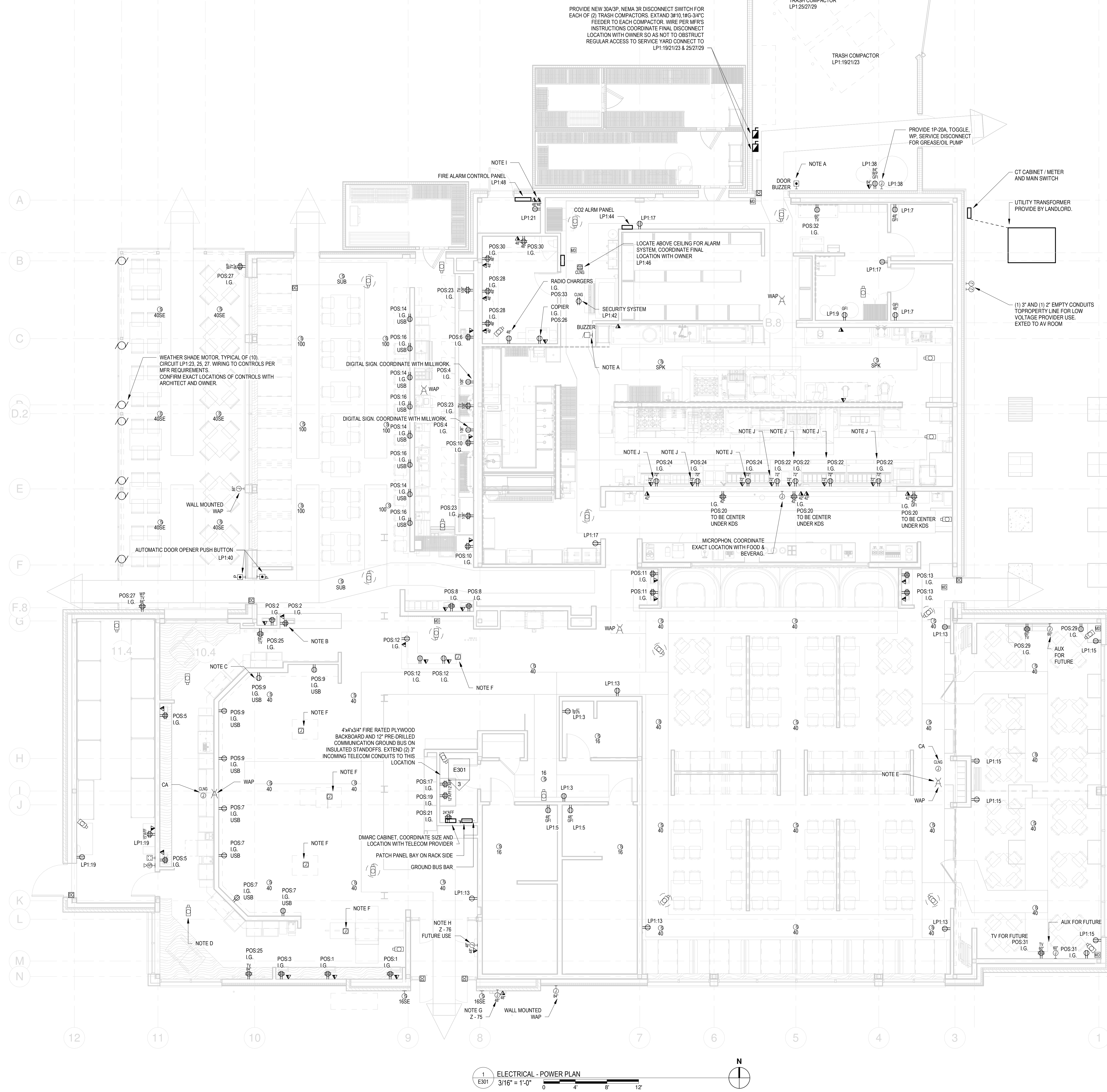
8 LIGHTING ELEVATION
1/2" = 1'-0"



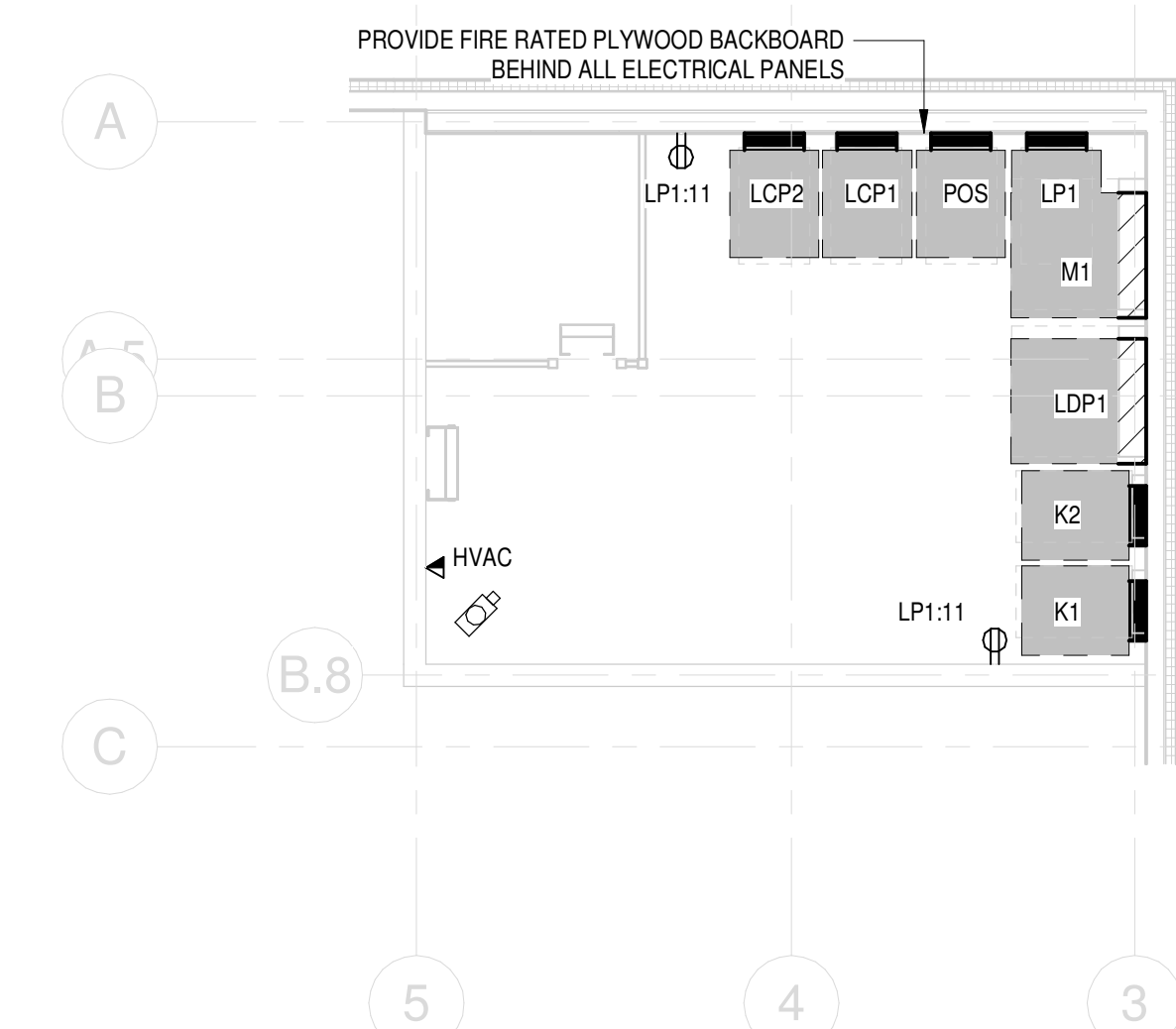
6 LIGHTING ELEVATION



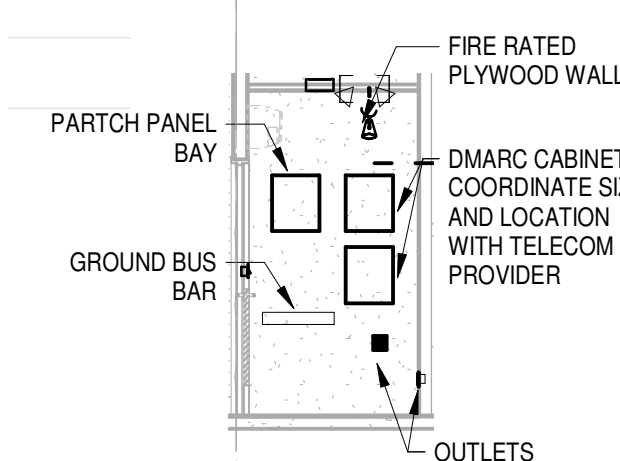
7 LIGHTING ELEVATION



1. ALL 15A & 20A RECEPTACLES LOCATED WITHIN 6" OF A SINK, BASIN OR SHOWER OR INSTALLED OUTDOORS OR WITHIN KITCHEN OR BAR AREAS SHALL BE GFI TYPE. ALL RECEPTACLES INSTALLED OUTDOORS SHALL BE PROVIDED WITH A SHALLLOW WEATHERPROOF "NUSE" COVERS. GFI RECEPTACLES MUST BE READILY ACCESSIBLE, AND MAY NOT BE CONCEALED, IF RECEPTACLES WILL BE CONCEALED BY EQUIPMENT, GFI BREAKERS SHOULD BE CONSIDERED.
2. ALL 20A BRANCH CIRCUITS SHALL BE #12AWG CONDUCTORS N 34°C MINIMUM. CONTRACTOR SHALL PROVIDE HOMERUNS TO ELECTRICAL PANELS AS REQUIRED. EACH CIRCUIT SHALL CONTAIN A DEDICATED NEUTRAL CONDUCTOR FOR A MAX. OF 1 LINEWIRE PER HOMERUN. ALL CIRCUITS TO KITCHEN OR BRANCH PANELS GREATER THAN 75' IN LENGTH SHALL BE INCREASED IN SIZE AS REQUIRED TO COMPENSATE FOR VOLTAGE DROP. ALL OTHER CIRCUITS CONDUCTORS SHALL BE SIZED TO MATCH THEIR RESPECTIVE OVER CURRENT PROTECTIVE DEVICES U.N.O.
3. COORDINATE DEVICE ELEVATIONS WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
4. THIS PROJECT IS SUBJECT TO THE 2017 NATIONAL ELECTRICAL CODE AND ALL LOCAL AMENDMENTS.
5. ALL DEVICES SHALL BE MOUNTED HORIZONTALLY GROUND PIN RIGHT U.N.O. ALL DEVICES INSTALLED IN EXISTING AREAS, ADJACENT TO EXISTING DEVICES WITHIN VIEW SHALL MATCH THE ORIENTATION OF THE EXISTING DEVICES U.N.O.
6. ALL POWER AND DATA DEVICES INSTALLED FOR THE SERVICE OF FLAT SCREEN TVS OR VIDEO EQUIPMENT SHALL BE OFFSET 8" TO 10" NOT BE SEEN AFTER FINISH. CONTRACTOR SHALL COORDINATE LOCATION WITH EQUIPMENT MOUNTING BRACKET PRIOR TO ROUGH-IN. E.G. SHALL SECURE THE EXTRA CABLE LENGTHS THING BEHIND EQUIPMENT SO AS NOT TO BE SEEN AFTER FINISH. CONTRACTOR SHALL PROVIDE 2-GANG BACK BOX AND EQUIP 3/4" STUD UP AT ALL LV LOCATIONS. TYP.
7. THE CONTRACTOR SHALL REVIEW ALL EQUIPMENT CUTS PRIOR TO THE ROUGH-IN OF ANY ELECTRICAL DEVICES. COORDINATE EQUIPMENT REQUIREMENTS AND ELEVATIONS PRIOR TO ROUGH-IN. TYP.
8. CIRCUIT NUMBERS USED ARE FOR INTENT OF DESIGN ONLY. ELECTRICAL CONTRACTOR SHALL COORDINATE ACTUAL CIRCUITS TO BE USED.
9. VERIFY ALL TELE-DATA ROOM EQUIPMENT REQUIREMENTS & GROUNDING REQUIREMENTS WITH OWNER. EQUIPMENT MAY REQUIRE SPECIALIZED RECEPTACLES DIFFERENT THAN INDICATED PROVIDE ALL AS REQUIRED FOR A FULLY FUNCTIONAL INSTALLATION.
10. PROVIDE 1/2" FROM EACH 1" STAT OR SENSORY TO THE EQUIPMENT IT SERVES FOR USE BY THE MEDICAL CONTRACTOR.
11. INSTALL RECEPTACLE AND/OR TAP TO REVERSE OF COUNTER FOR COUNTER TOP POWERING OUTLET FAUCETS. EC TO SECURE EXCESS CABLES AND/OR CORDS TIGHT TO UNDERSIDE OF COUNTER TO MINIMIZE VIEWING POST INSTALLATION.
12. ALL BACK-OF-HOUSE RECEPTACLES IN KITCHEN AND BAR AREAS SHALL BE PROVIDED WITH STAINLESS STEEL COVER PLATES.
13. ALL POWER TO APPLIANCES LOCATED WITHIN THE ANSUL HOOD SHALL BE DISCONNECTED UPON ANSUL INITIATION. PROVIDE SHUNT TRIP BREAKERS, PANEL OR CONTACTORS AS REQUIRED. TYP.
14. PROVIDE DEDICATED NEUTRAL FOR POS CKT.
15. PROVIDE EMPLY CONDUIT WITH STUB-UP TO 6" ABOVE FINISHED CEILING FOR ALL LOW VOLTAGE LOCATIONS. PROVIDE BACK BOX FOR DEVICE INSTALLATION PER SPECIFICATIONS. WIRING BY LOW VOLTAGE CONTRACTOR. ALL WIRING TO NON-FINISH CEILINGS ARE PRESENT, ALL LOW VOLTAGE CABLEING SHALL BE PLenum APPROVED.
16. ALL WIRING DEVICE COLORS SHALL BE COORDINATED WITH ARCHITECT AND ARCHITECTURAL FINISH PLAN.
17. RIGID OR INTERMEDIATE METAL CONDUIT SHALL BE USED IN ALL CONCRETE SLABS ABOVE GRADE, RIGID OR INTERMEDIATE METAL, OR RIGID NONMETALLIC CONDUIT SHALL BE USED UNDERGROUND. RIGID, RIGID NONMETALLIC, INTERMEDIATE OR ALUMINUM CONDUIT SHALL BE USED FOR OVER EXPOSED CONDUIT. EMT OR NON ELECTRICAL METALLIC TUBING (EMT) IS PERMITTED OUTSIDE, ONLY INSIDE OF A STRUCTURE.



- A. PROVIDE EDWARDS 8000 DOWELL PUSH BUTTON WITH MATCHING DIXIE, #750592 BUZZER. INSTALL PER MANUFACTURER'S INSTRUCTIONS. CONNECT TO NEAREST RECEPTACLE CIRCUIT.
- B. TYPICAL POS PANEL. PROVIDE ISOLATED GROUND RECEPTACLES. ROUGH-IN AT 9" A.F.F. REFER TO ARCHITECTURAL MILLWORK DETAILS FOR ADDITIONAL ROUGH-IN INFO.
- C. BAR POS RECEPTACLES LEVITON #78302 OR EQUAL. MOUNT AT 9" A.F.F. TYP. FOR ALL BAR POS LOCATIONS.
- D. SECURITY CAMERA TYP. PROVIDE 3/4" CONDUIT BACK TO LOW VOLTAGE BACKBOARD AT PATCH PANEL BAY.
- E. WIRELESS ACCESS POINT TYP. PROVIDE 3/4" CONDUIT BACK TO LOW VOLTAGE BACKBOARD AT PATCH PANEL BAY.
- F. ROUTE CONDUITS FOR POWER AND DATA IN SLAB WHERE REQUIRED. COORDINATE WITH ARCHITECTURAL PLANS AND DETAILS. MINIMUM CONDUIT SIZE SHALL BE 3/4".
- G. POWER & DATA TO MENU BOARD. COORDINATE EXACT LOCATION WITH ARCHITECT.
- H. POWER & DATA TO ESSEL BOARD. COORDINATE EXACT LOCATION WITH ARCHITECT.
- I. CONFIRM EXACT LOCATION OF LOW VOLTAGE DEMARCATION AND ROUTING OF SERVICES WITH OWNER. NOT REQUIRED IF WIRELESS FIRE ALARM MONITORING IS ALLOWED BY THE LOCAL A.H.J. COORDINATE WITH FIRE ALARM CONTRACTOR.
- J. MONITOR. COORDINATE EXACT LOCATION WITH FOOD SERVICE AND OWNER



COORDINATED SHOP DRAWINGS SHALL BE PROVIDED BY EACH SUBCONTRACTOR AND SHALL CONTAIN A LAYOUT OF ALL DUCTWORK, CONDUIT, PIPING, EQUIPMENT STRUCTURE, WALLS, CEILING, ETC. AS REQUIRED TO REFLECT FULL COORDINATION ACROSS ALL TRADES AND SHALL BE SUBMITTED FOR REVIEW. COORDINATED DRAWINGS SHALL BE SIGNED OFF BY THE OTHER TRADE PRIOR TO BEING SUBMITTED FOR REVIEW. PLANS SHALL BE PREPARED AT A MINIMUM OF 1/8" SCALE OR THE SCALE OF THE DESIGN DRAWINGS, WHICHEVER IS LARGER.

NO EQUIPMENT SHALL BE INSTALLED WITHOUT APPROVED SHOP DRAWINGS.

STATE OF MISSOURI
JOHN M. THOMAS
NUMBER
PE-2010039283
PROFESSIONAL ENGINEER

John M. Thomas

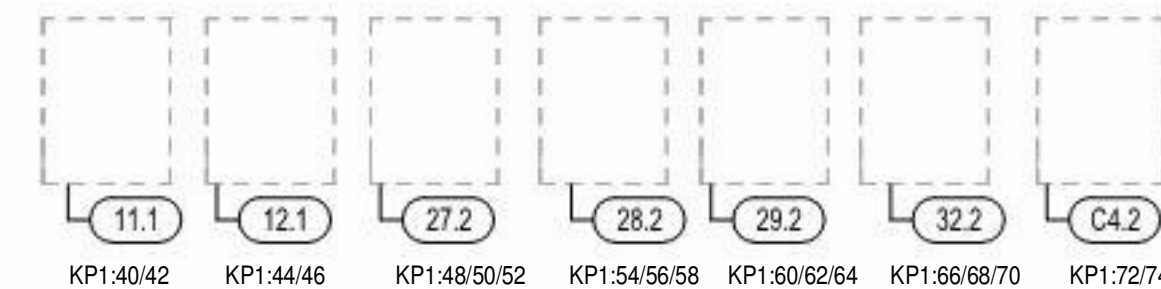
Job No. 204530	Drawn Author
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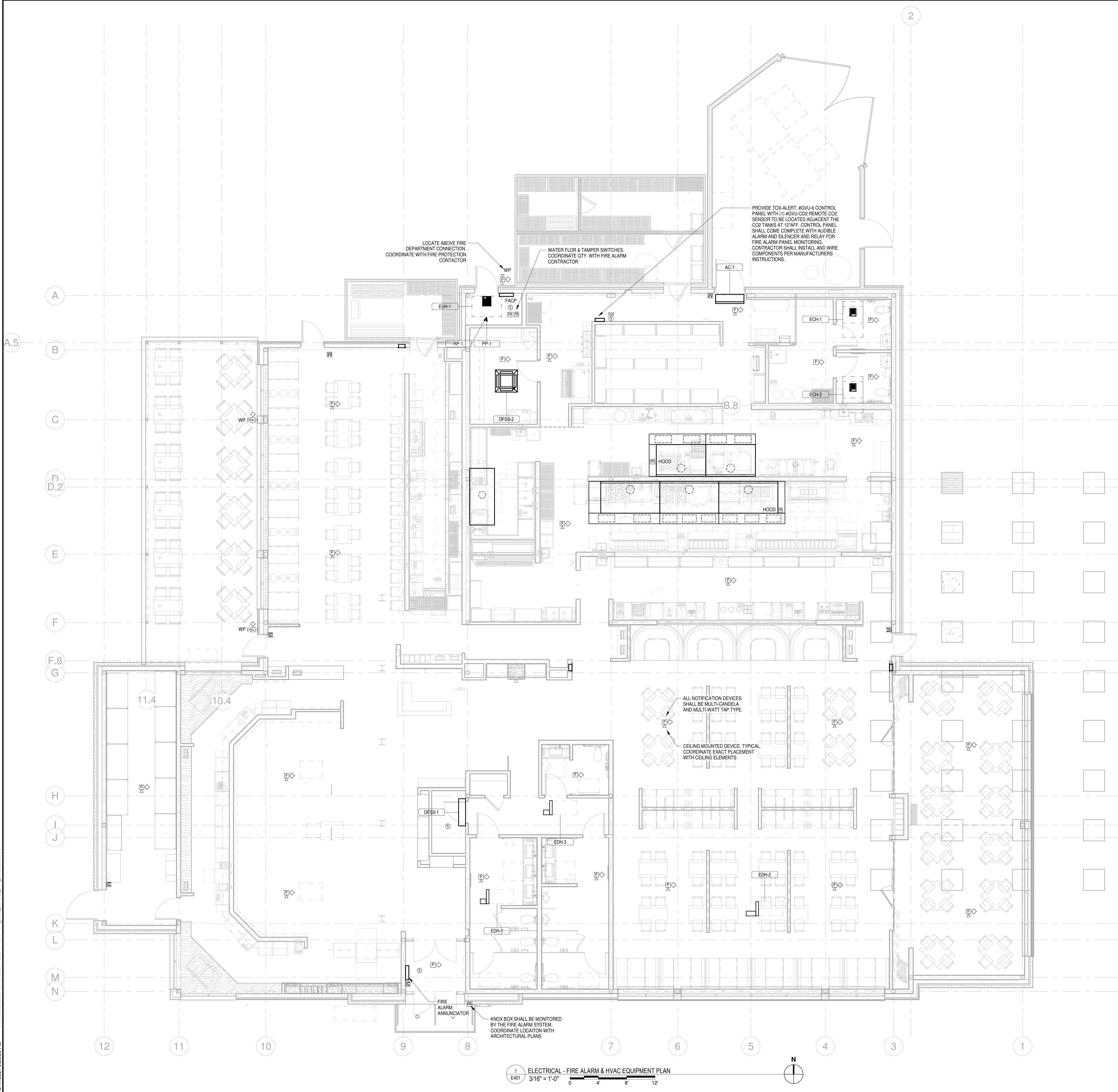


CONDENSING UNITS LOCATED ON CONCRETE SLAB/
BUILDING ROOF.



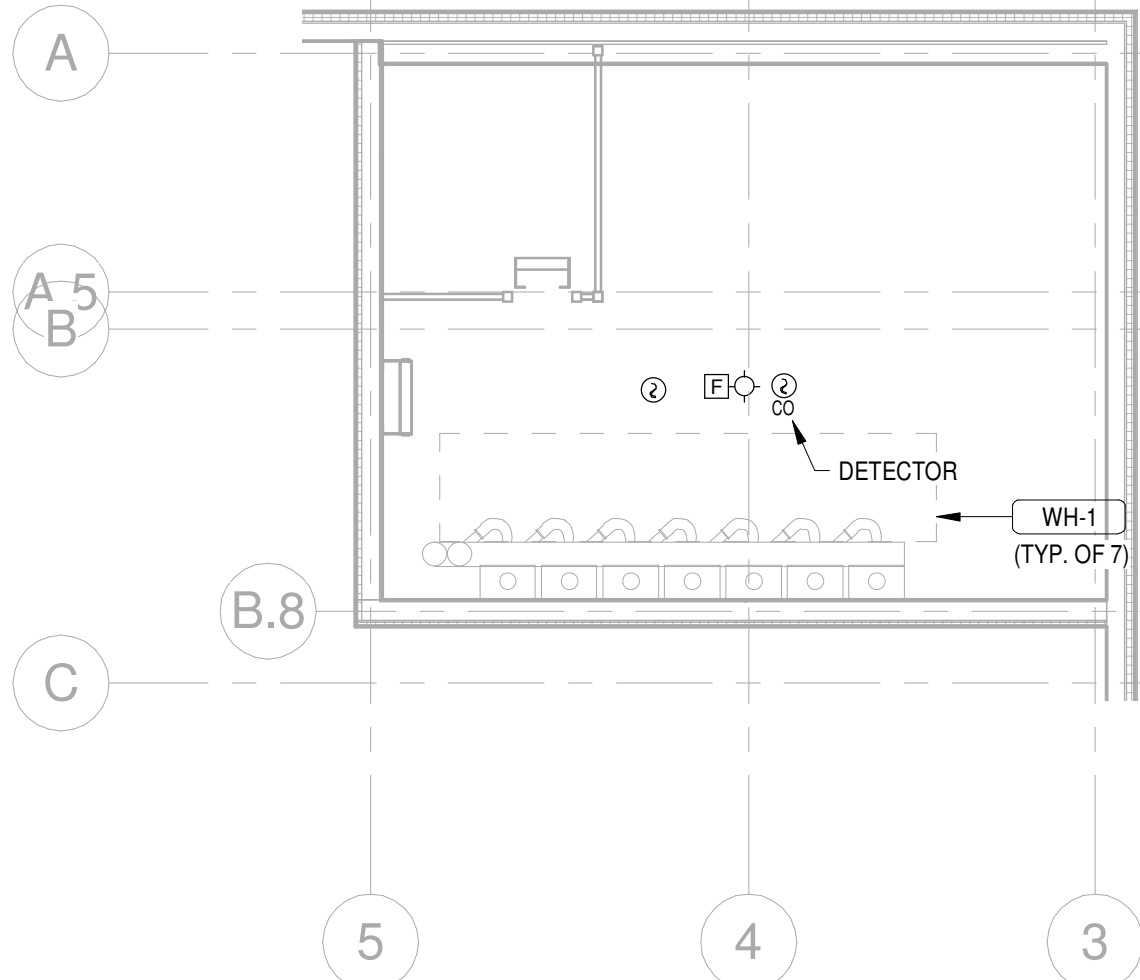
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FIRE ALARM GENERAL NOTES

1. FIRE ALARM CONTRACTOR SHALL PROVIDE A FORMAL SUBMITTAL TO THE LOCAL AHJ FOR FORMAL PERMIT REVIEW AND APPROVAL. SUBMITTAL SHALL INCLUDE, BUT NOT BE LIMITED TO: PLANS, DEVICE LOCATIONS, WIRING DIAGRAMS, EQUIPMENT CUTS, BATTERY CALCULATIONS, ETC.
2. FIRE ALARM SYSTEM SHALL BE INSTALLED PER LOCAL FIRE CODES AND NFPA 72.
3. PROVIDE NEW ADDRESSIBLE FIRE ALARM SYSTEM BY EDWARDS. FAAP SHALL BE LOCATED AT THE MAIN ENTRANCE OF THE BUILDING. COORDINATE EXACT LOCATION WITH ARCHITECT. PROVIDE SMOKE DETECTOR ABOVE FAAP AND FAAP.
4. ALL VISUAL DEVICES LOCATED WITHIN CONTIGUOUS VIEWING AREAS SHALL BE SYNCHRONIZED.
5. ALL DEVICES SHALL BE MOUNTED PER MANUFACTURER'S INSTRUCTIONS AND PER NFPA 72. ADJUST LOCATIONS AS REQUIRED TO COORDINATE WITH LIGHTS, DIFFUSERS, SPRINKLER HEADS, ETC. LOCATION ADJUSTMENTS GREATER THAN 2'-0" SHALL BE APPROVED BY THE ENGINEER.
6. ALL FIRE ALARM WIRING SHALL BE IN CONDUIT EXCEPT WHERE ALLOWED TO BE INSTALLED IN FREE AIR BY THE LOCAL AHJ. ALL FIRE ALARM WIRING IN CONCEALED SPACES (IE BEHIND WALLS OR INACCESSIBLE CEILINGS) OR IN AREAS SUBJECT TO DAMAGE (IE MECHANICAL ROOMS) SHALL BE INSTALLED IN CONDUIT. ALL FIRE ALARM CABLEING SHALL BE FIRE-ALARM CIRCUIT INTEGRITY RATED CABLE. ALL FIRE ALARM CABLE RUN IN FREE AIR SHALL BE RUN INDEPENDENTLY OF OTHER LOW VOLTAGE SYSTEMS AND SUPPORTED VIA CABLE TRAY, WIRE BASKET TRAY, BRIDLE RINGS OR J-HOOKS.
7. FIRE ALARM CONTRACTOR SHALL PROVIDE ALL REQUIRED ACCESSORY RELAYS FOR DUCT DETECTORS PROVIDED BY THE ELECTRICAL CONTRACTOR TO ENSURE COMPATIBILITY WITH THE FIRE ALARM SYSTEM.
8. PROVIDE AUXILIARY CONTACTS WHERE REQUIRED FOR CONTROL OF OTHER FIRE PREVENTION EQUIPMENT.
9. PROVIDE 120V POWER, CONDUIT AND BACK BOXES AS REQUIRED TO SUPPORT THE INTENDED FIRE ALARM SYSTEM.
10. ALL STROBES SHALL BE 15cd/30cd/75cd/110cd MULTI-CANDELA TYPE.
11. ALL NEW FIRE ALARM DEVICES SHALL BE RED IN COLOR.
12. PROVIDE FIRE ALARM MONITOR MODULES AT KNOX BOX, WATER FLOW AND TAMPER SWITCHES WHERE PRESENT. COORDINATE LOCATION WITH ARCHITECTURAL AND FIRE PROTECTION DRAWINGS.
13. PROVIDE FIRE ALARM SHUT OFF RELAY AT ALL AHU'S AND RTU'S FOR FAN SHUT DOWN UPON FIRE ALARM INITIATION.
14. PROVIDE WEATHERPROOF HORN/STROBE ABOVE EXTERIOR FIRE DEPARTMENT CONNECTION WHERE PRESENT.
15. THE ACTUATION OF A DUCT SMOKE DETECTOR SHALL ACTIVATE A VISIBLE SUPERVISORY SIGNAL AT A CONSTANTLY ATTENDED LOCATION.
16. DUCT SMOKE DETECTORS FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE DETECTOR LOCATIONS WITH MECHANICAL CONTRACTOR, TOTAL OF 4 (RTU-1, 2, 3 & 5). SEE SHEET M101 FOR THE LOCATIONS.



2 ELECTRICAL - FIRE ALARM & HVAC EQUIPMENT MEZZ PLAN

E401 3/16" = 1'-0" 0 4' 8' 12'

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Drawing Title
ELECTRICAL - FIRE ALARM & HVAC EQUIPMENT PLAN

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Scale As indicated	Date 08/06/2021

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E401

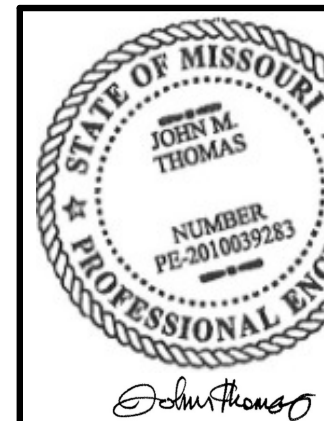
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Drawing Title

ELECTRICAL - RO
PLAN

Job No. 204530	Drawn Auth
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Scale
3/16" =
1' 0"

Sheet No.

E402

MECHANICAL FLOOR PLAN

Grid: A, A.5, B, C, D.2, E, F, F.8, G, H, I, J, K, L, M, N

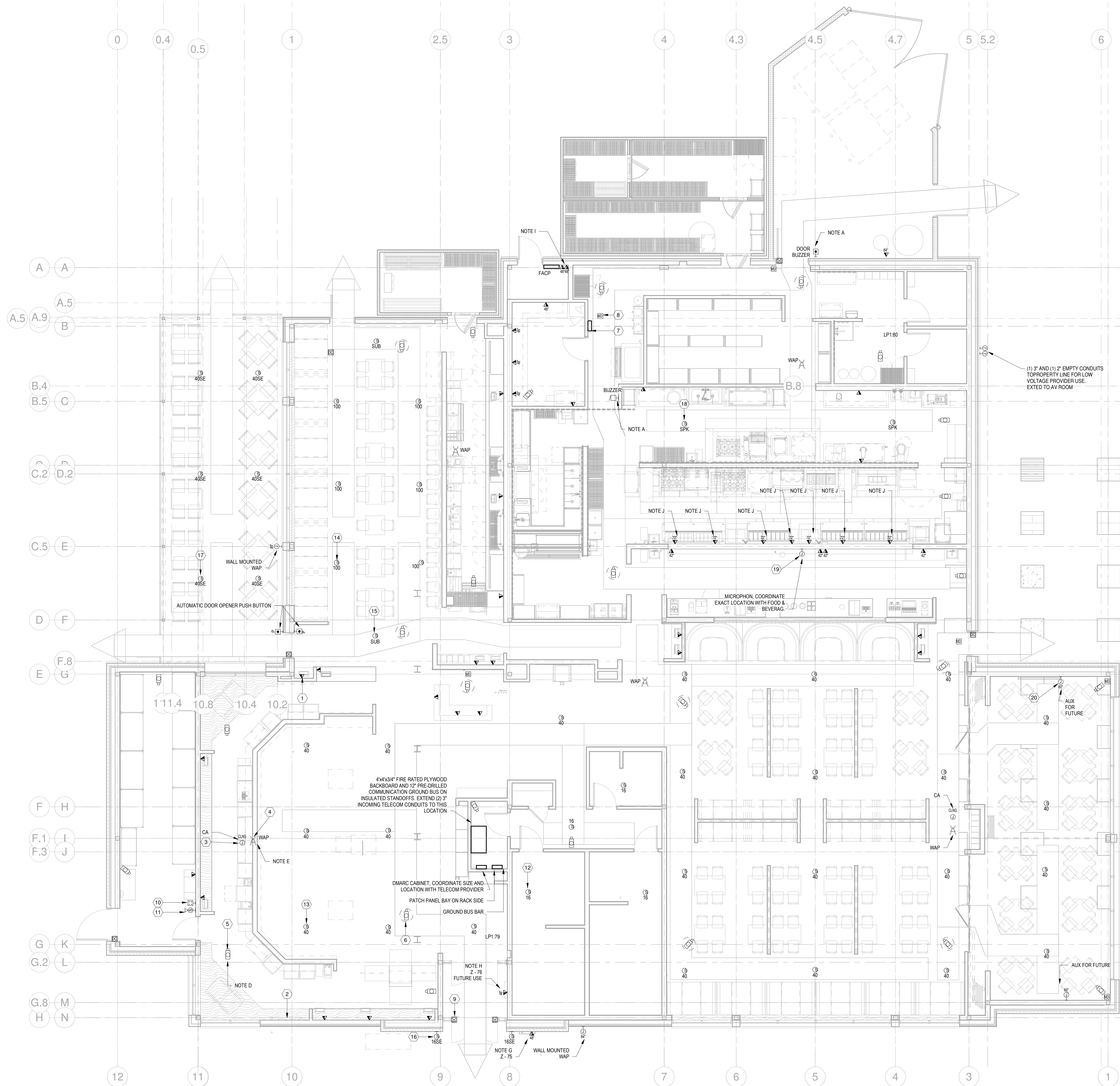
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Labels and Equipment:

- RTU-1, RTU-2, RTU-3, RTU-4, RTU-5, RTU-6
- MAU-1
- DFSS-1, DFSS-2
- KEF-1R, KEF-2L, KEF-2R, KEF-1M, KEF-1L, KEF-3
- EF-1, EF-2
- LP1:1
- DD, DSD, DSDS, DSDS-1, DSDS-2
- WIRE FOR UNIT SHUT DOWN UPON FIRE ALARM ACTIVATION, TYP.
- FIRE ALARM REMOTE STATION FOR DUCT SMOKE DETECTOR. LOCATE REMOTE TEST STATION IN OFFICE ADJACENT TO T-STATS TYP.
- DUCT SMOKE DETECTOR, TYP.

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ELECTRICAL KEYNOTES	
KEY VALUE	KEYNOTE TEXT
1	TWO (2) CAT6 PER LOCATION UNLESS NOTED OTHERWISE. TYP.
2	TV LOCATION, (1) SHIELDED CAT6 WITH 3' SERVICE LOOP HOMERUN TO AV RACK. SEE SHEET E200 FOR MORE INFORMATION. MODULAR PLUG TERMINATION ON BOTH ENDS. TYP.
3	CA, FUTURE CELL ANTENNA CHASE, 2 1/2" CONDUIT AND HOME RUN TO AV ROOM. REFER TO ROOF DETAILS ON 71A3.2. TYP.
4	WAP, WIRELESS ACCESS POINT, 34" C (IN HARD LID LOCATIONS ONLY) TO LV BACKBOARD AT EQUIPMENT PLATFORM, (2) CAT6 PER LOCATION. TYP.
5	CAMERA, (1) CAT6 PER LOCATION TO DEDICATED PATCH PANEL IN IDF.
6	360 CAMERA, (1) CAT 6 PER LOCATION TO DEDICATED PATCH PANEL IN IDF.
7	INTRUSION ALARM CONTROL PANEL
8	INFRARED MOTION DETECTOR, TYP.
9	DOOR CONTACT, TYP.
10	KEYPAD
11	SIREN
12	BOSE MODEL 16 CEILING SPEAKER, WHITE, TYP.
13	BOSE MODEL 40 CEILING SPEAKER, BLACK, TYP.
14	BOSE MODEL 100 CEILING SPEAKER, BLACK, TYP.
15	SUB, BOSE SUB WOOFER CEILING SPEAKER, BLACK, TYP.
16	16SE, BOSE SUB WOOFER CEILING SPEAKER, BLACK, TYP.
17	40SE, BOSE SUB WOOFER CEILING SPEAKER, BLACK, TYP.
18	SPK, SPEAKERS, CEILING, 70V CALLBACK, TYP.
19	GOOSENECK MIC CALLBACK, 4 CONDUCTOR SHIELDED, COORDINATE EXACT LOCATION WITH FOOD & BEVERAGE
20	AUX FACEPLATE

2 ELECTRICAL LV & SPECIAL SYSTEM PLAN - MEZZANINE
3/16" = 1'-0"

PROJECT SPECIFIC NOTES

- PROVIDE EDWARDS #630 DOOR BELL PUSH BUTTON WITH MATCHING OXIDE NUBEL #750/592 BUZZER. INSTALL PER MANUFACTURERS INSTRUCTIONS. CONNECT TO NEAREST RECEPTACLE CIRCUIT.
- TYPICAL POS STATION. PROVIDE ISOLATED GROUND RECEPTACLES. ROUGH-IN AT 9" A.F.F. REFER TO ARCHITECTURAL MILLWORK DETAILS FOR ADDITIONAL ROUGH-IN INFO.
- BAR POS RECEPTACLES LEVITON #15832 OR EQUAL MOUNT AT 9" A.F.F. TYP. FOR ALL BAR POS LOCATIONS.
- SECURITY CAMERA TYP. PROVIDE 3/4" CONDUIT BACK TO LOW VOLTAGE BACKBOARD AT PATCH PANEL BAY.
- WIRELESS ACCESS POINT TYP. PROVIDE 3/4" CONDUIT BACK TO LOW VOLTAGE BACKBOARD AT PATCH PANEL BAY.
- ROUTE CONDUITS FOR POWER AND DATA IN SLAB WHERE REQUIRED. COORDINATE WITH ARCHITECTURAL PLANS AND DETAILS. MINIMUM CONDUIT SIZE SHALL BE 3/4".
- POWER & DATA TO MENU BOARD. COORDINATE EXACT LOCATION WITH ARCHITECT.
- POWER & DATA TO EASEL BOARD. COORDINATE EXACT LOCATION WITH ARCHITECT.
- CONFIRM EXACT LOCATION OF LOW VOLTAGE DEMARCATION AND ROUTING OF SERVICES WITH OWNER. NOT REQUIRED IF WIRELESS FIRE ALARM MONITORING IS ALLOWED BY THE LOCAL AHJ. COORDINATE WITH FIRE ALARM CONTRACTOR.
- MONITOR, COORDINATE EXACT LOCATION WITH FOOD SERVICE AND OWNER

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08/04/2021

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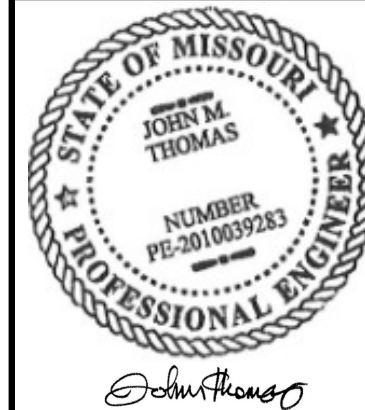
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NO. DATE	REMARKS
REVISIONS	



Drawing Title
ELECTRICAL - LV &
SPECIAL SYSTEM
PLAN

Job No. 204530 Drawn Author

Scale As indicated Date 08/06/2021

Sheet No.
T301