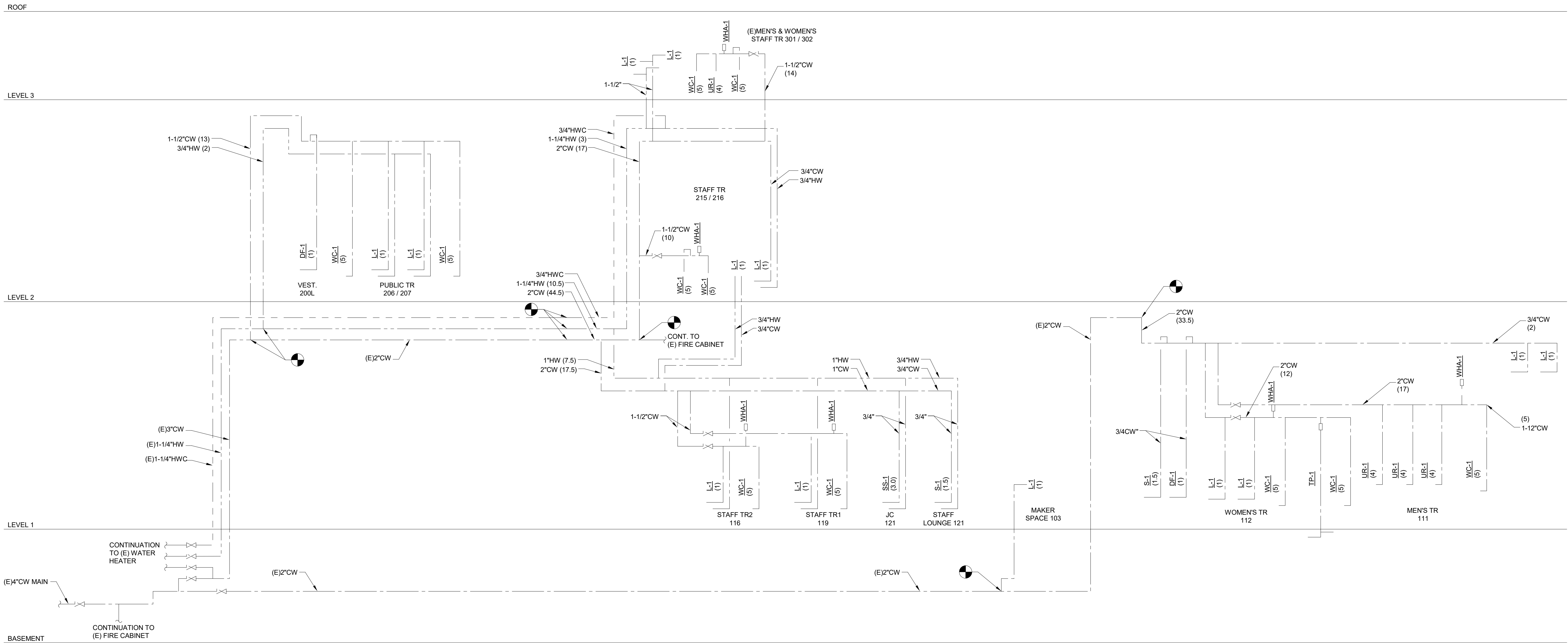


② PLUMBING WASTE RISER
12" = 1'-0"



① PLUMBING WATER RISER
12" = 1'-0"

REVISIONS

95% CONSTRUCTION DOCUMENTS

Salas O'Brien

949.321.1803

www.sob.com
Irvine
8225 Research Drive
Irvine, CA 92618

Project No.: 2023-0101-00



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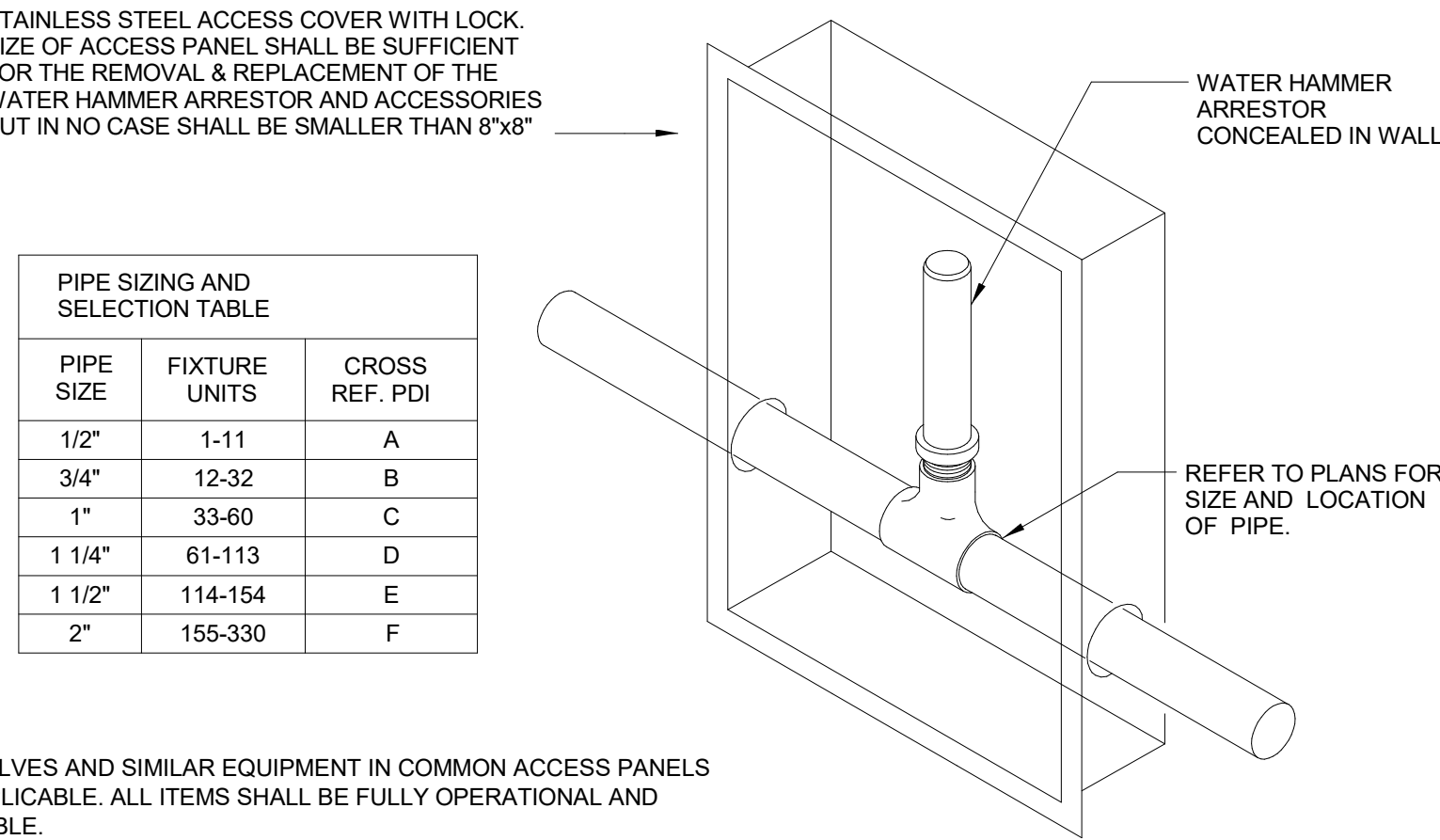
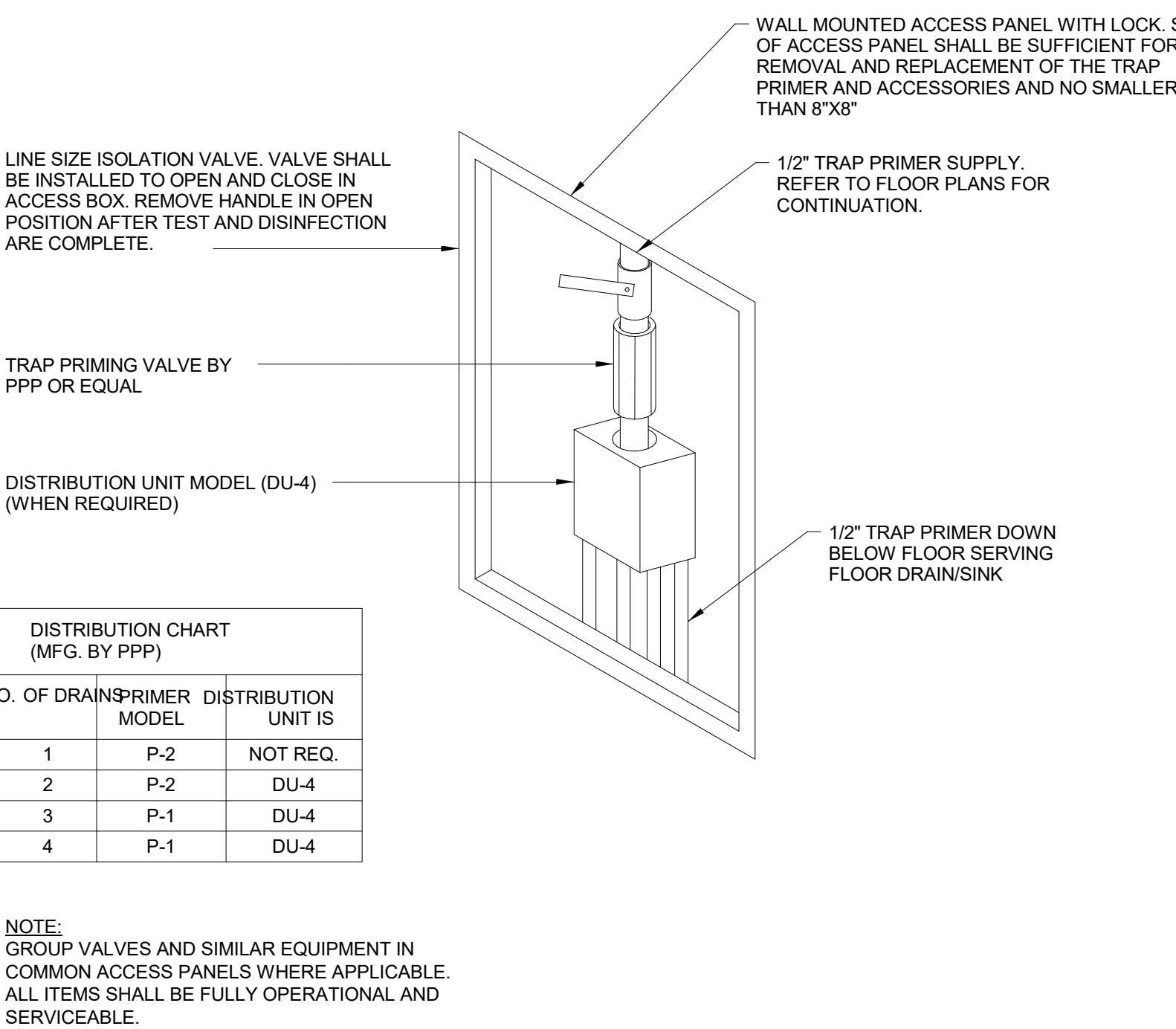
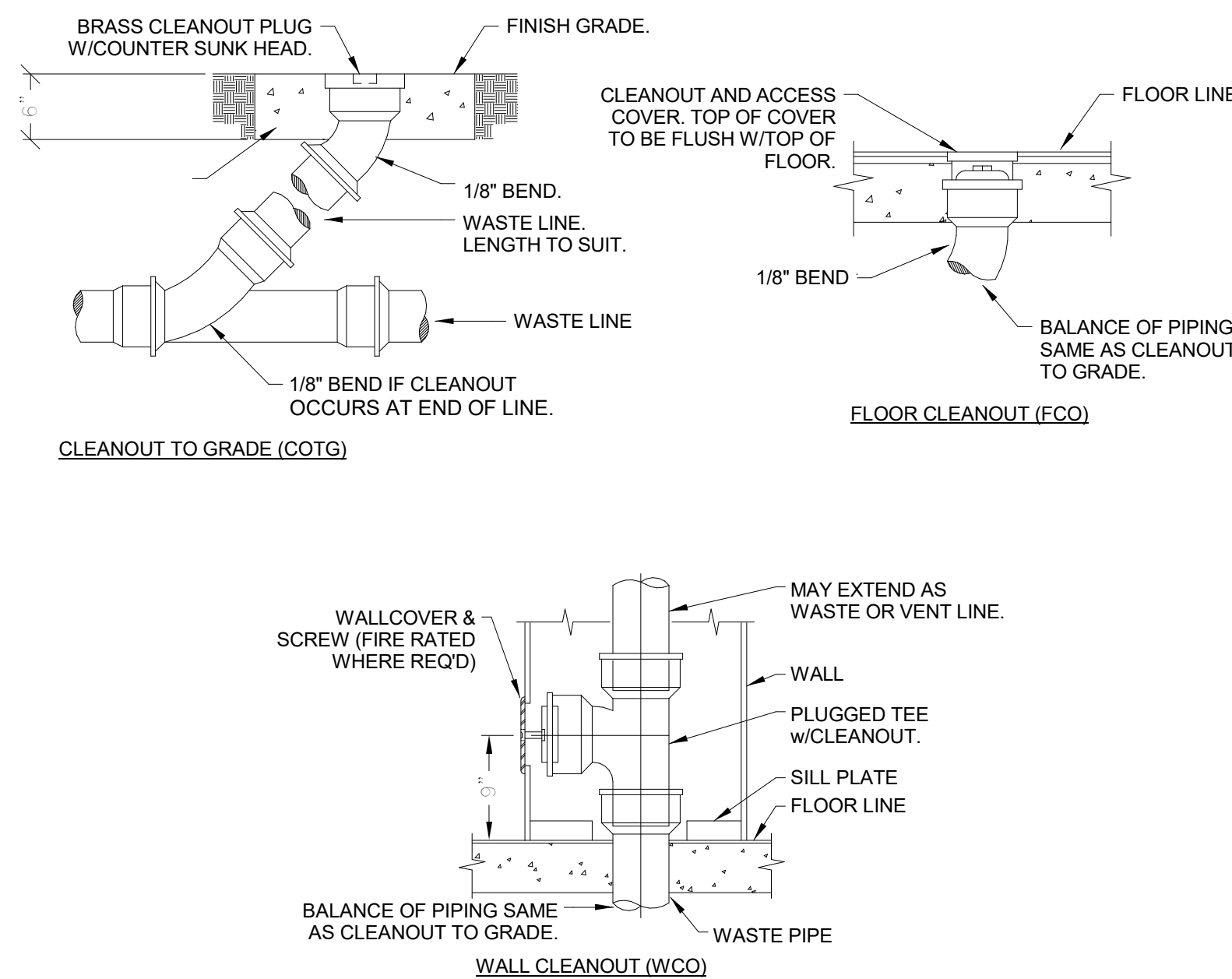
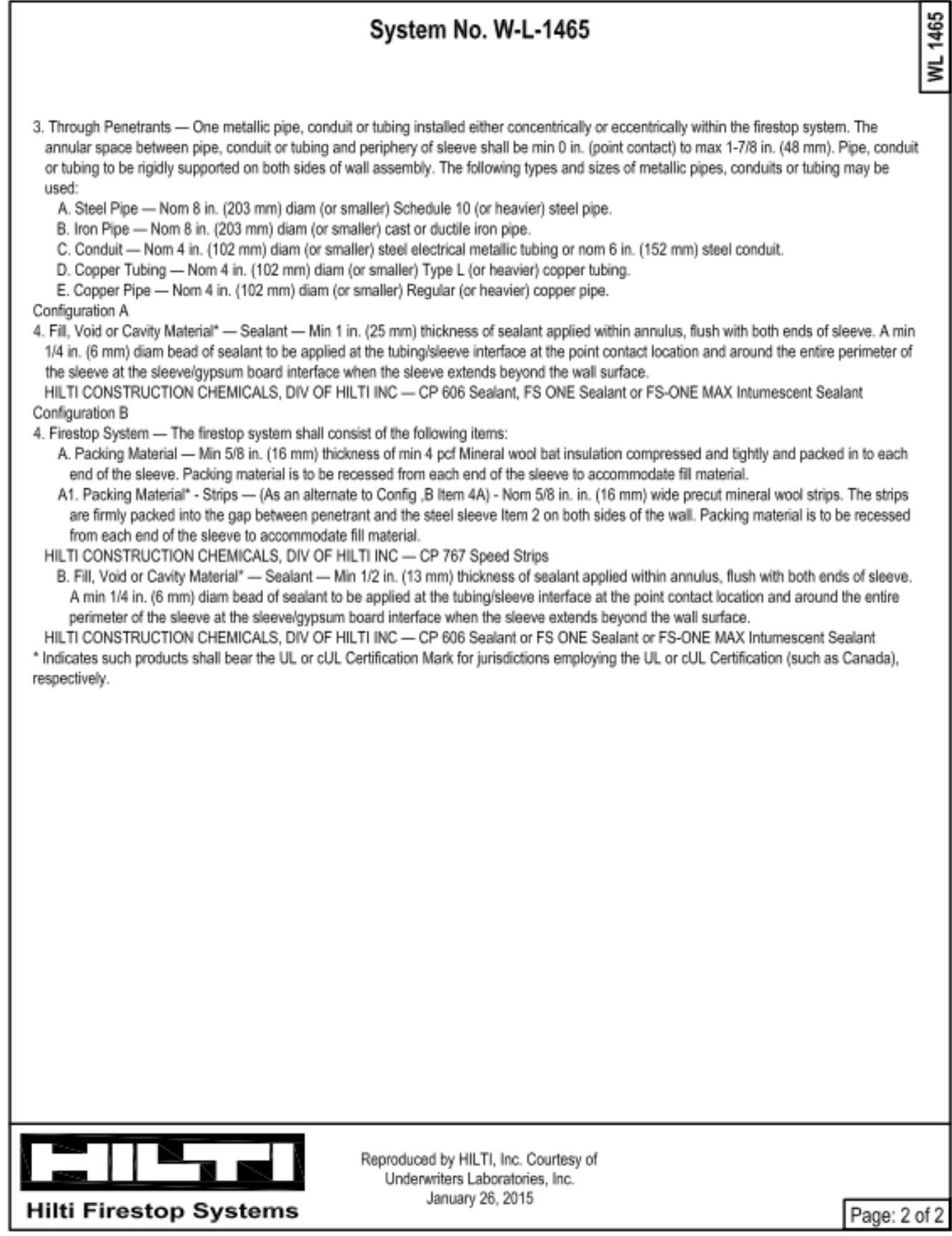
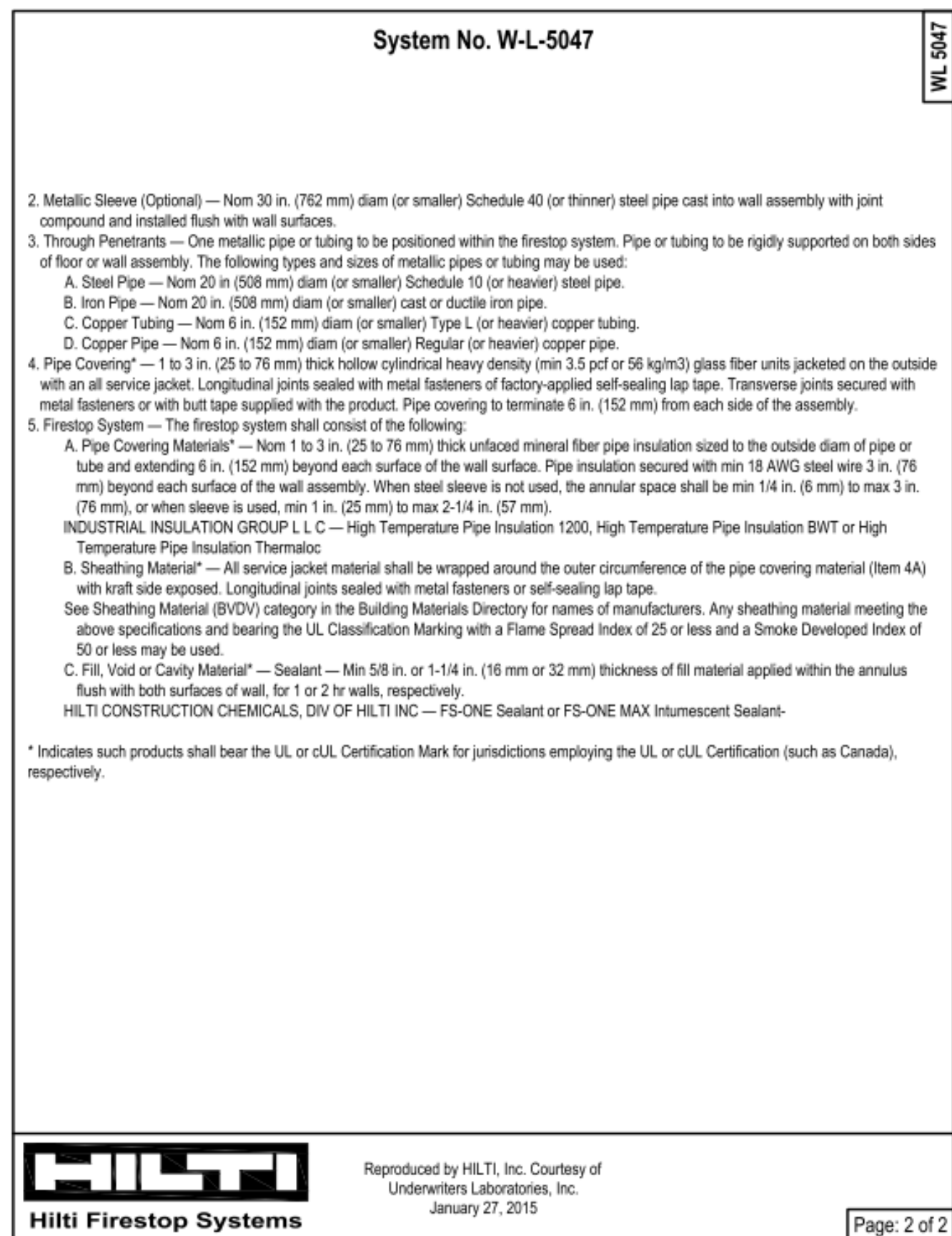


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PLUMBING RISERS

P5.01



- ① PROVIDE DUALITE 5.5KVA LSN D SERIES INVERTER MODEL #D-277-55-10-277---C-30-01 OR EQUAL TO FEED NEW EMERGENCY LIGHTING PANEL
- ② REMOVE LIGHTING CONTACTOR CONTROL FROM SPLIT BUS PANEL. PROVIDE JUMPER CABLE CONNECTION BETWEEN SPLIT BUS SECTIONS. LIGHTING CONTACTOR TO BE REMOVED FROM ENCLOSURE.
- ③ TRANSFORMER SUPPLY-SIDE BONDING JUMPER. PROVIDE GROUND CONNECTION AS INDICATED TO GROUND BUS
- ④ REPLACE EXISTING PANEL WITH NEW PANEL LIKE FOR LIKE WITH SAME SIZE AND QUANTITY OF BREAKERS AND BUSSING.

1. DURING CONSTRUCTION, DE-ENERGIZE AND TORQUE ALL EXISTING TO REMAIN BRANCH CIRCUIT BREAKERS AND FEEDER BREAKERS FOR ALL EXISTING PANELS.
2. INCLUDE A COORDINATION STUDY AND ARC FLASH ANALYSIS ON ALL NEW ELECTRICAL COMPONENTS AND INCLUDE AS AN ALTERNATE TO INCLUDE ALL EXISTING ELECTRICAL DISTRIBUTION COMPONENTS.

1. ALL SWITCHGEAR, PANELBOARDS, ETC. ARE TO BE UL LISTED FOR THEIR LOCATION AND INTENDED USE. ALL EQUIPMENT SHALL BE BRACED FOR FAULT CURRENT RATINGS ASSOCIATED WITH THEIR VOLTAGE AND LOCATION WITHIN THE SYSTEM.
2. ALL EQUIPMENT, FEEDERS, CIRCUITS, SERVICES, ETC. SHALL BE GROUNDED PER CEC ARTICLE 250.
3. ALL FEEDERS ARE BASED ON COPPER CONDUCTORS AND SHALL CARRY A SEPARATE GROUNDING CONDUCTOR.
4. ALL SWITCHES OR CIRCUIT BREAKERS ARE THREE POLE UNLESS OTHERWISE NOTED.
5. ALL SWITCHBOARDS SHALL BE OF SWITCHBOARD CONSTRUCTION WITH TIN PLATED COPPER BUSSING AND ALL SECTIONS SHALL ALIGN IN FRONT. MAIN SWITCHBOARDS SHALL CONTAIN CUSTOMER METERING FOR VOLTAGE, AMPACITY, DEMAND AND PEAK DEMAND PER PHASE.
6. ALL MAIN SWITCHBOARDS SHALL HAVE FACTORY INSTALLED TRANSIENT VOLTAGE SURGE PROTECTION. COORDINATE WITH LOCAL UTILITY COMPANY.
7. ALL DISTRIBUTION BOARDS SHALL BE OF SWITCHBOARD CONSTRUCTION WITH TIN PLATED COPPER BUSSING AND ALL SECTIONS SHALL ALIGN IN FRONT.
8. ALL DISTRIBUTION PANELBOARDS SHALL BE OF GMR/CBB CONSTRUCTION WITH TIN PLATED COPPER BUSSING WITH A DEPTH OF LESS THAN 14" AND ALL SECTIONS SHALL ALIGN IN FRONT.
9. ALL PANELBOARDS SHALL BE OF PANELBOARD CONSTRUCTION WITH TIN PLATED COPPER BUS AND CIRCUIT BREAKERS. FACTORY INSTALLED MAINS, DEAD FRONT COVERS WITH LOCKABLE DOOR, AND PANEL DIRECTORY PER PANEL SCHEDULE WHICH IS PART OF THESE CONSTRUCTION DOCUMENTS.
10. ALL PANELBOARDS INSTALLED IN GARAGES OR AREAS COMPLYING WITH ARTICLE 500, 511, AND/OR 514 SHALL BE INSTALLED 18" ABOVE FLOOR LINE TO BOTTOM OF PANEL. MAINS SHALL BE IN MULTIPLE PANELS AS REQUIRED WITH TOP MOST BREAKER NO HIGHER THAN 6'-7" OFF PER CEC 240.24(A).
11. ALL ELECTRICAL EQUIPMENT (i.e. SWITCHBOARDS, PANELBOARDS, DISCONNECTS, STARTERS, ETC.) SHALL HAVE A NAMEPLATE. THE NAMEPLATE SHALL BE PHENOLIC WITH ENGRAVED WHITE LETTERS AND SHALL PROVIDE THE FOLLOWING INFORMATION:

SWITCHBOARDS, DISTRIBUTION BOARDS, TRANSFORMERS:
* LINE 1 = 1/2" LETTERS, LINES 2, 3, & 4 = 1/4" LETTERS

PANELBOARDS, MOTOR CONTROL CENTERS, DISCONNECTS, STARTERS:
* LINE 1 = 3/8" LETTERS, LINES 2, 3, & 4 = 1/4" LETTERS

BLACK = NORMAL POWER
RED = LIFE SAFETY/EMERGENCY POWER
BLUE = STANDBY POWER
GREEN = INVERTOR POWER

12. ALL CONDUCTORS HAVE BEEN REVIEWED FOR VOLTAGE DROP. CONTRACTOR IS TO NOTIFY ENGINEER IF FIELD CONDITIONS SUBSTANTIALLY INCREASE CONDUCTOR LENGTH.

13. ALL FLOOR-STANDING EQUIPMENT LOCATED AT GRADE OR BELOW SHALL HAVE A MINIMUM 4" HIGH HOUSEKEEPING PAD INSTALLED UNDER THEM. PAD SHALL EXTEND 4" BEYOND EQUIPMENT FOOTPRINT IN ALL DIRECTIONS. THE INSTALLATION OF A PAD SHALL ALSO APPLY TO EQUIPMENT THAT MIGHT BE SUSCEPTIBLE TO WATER DAMAGE THAT IS LOCATED IN AREAS OTHER THAN AT GRADE.

14. PROVIDE PROTECTIVE RELAYS FOR PHASE FAILURE AND UNDERVOLTAGE FOR ALL MOTOR-RELATED CIRCUITS.

15. PROVIDE ALL ASSOCIATED COSTS FOR THIRD PARTY TESTING FOR ALL EQUIPMENT, CONDUCTORS, GROUND FAULT, ETC.

16. ALL NEW TRANSFORMERS SHALL BE OF ALUMINUM CORE WINDINGS WITH 115°C TEMPERATURE RISE.

17. ALL NEW TRANSFORMERS SHALL HAVE A MINIMUM 155°C INSULATION CLASS.

18. ALL SERVICE EQUIPMENT IN OTHER THAN DWELLING UNITS SHALL BE LABELED WITH THE MAXIMUM AVAILABLE FAULT CURRENT IN COMPLIANCE WITH CEC 110.24.

19. ALL ELECTRICAL EQUIPMENT, THAT ARE IN OTHER THAN DWELLING UNITS, ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE. ENERGIZED SHALL BE LABELED OF POTENTIAL ELECTRIC ARC FLASH HAZARD.

COMPLIANCE WITH CEC 110.16.

SHALL BE SELECTIVELY COORDINATED WITH ALL SUPPLY-SIDE OVERCURRENT PROTECTIVE DEVICES IN COMPLIANCE WITH CEC 700.28 AND 701.27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PROVIDING THE SELECTIVE COORDINATION STUDY FROM THE SUPPLIER.

THE APPROVED ELECTRICAL EQUIPMENT MANUFACTURER AND SUBMIT TO THE ELECTRICAL ENGINEER FOR REVIEW.

21. PROVIDE FACTORY INSTALLED TRANSIENT VOLTAGE SURGE PROTECTION DEVICE(S) (SPD) IN ALL EMERGENCY SYSTEMS SWITCHBOARDS AND PANELBOARDS PER CEC 700.8. TYPE

AND ALL EQUIPMENT PROVIDED WITH SPD(S) SHALL INCLUDE REQUIRED CIRCUIT BREAKER(S) (SHOWN OR NOT SHOWN) AND PHYSICAL SPACE PROVISIONS TO SERVE THE

22. FOR ALL FEEDER BREAKERS RATED 1200A AND ABOVE, PROVIDE CIRCUIT BREAKER WITH

ARC-ENERGY-REDUCING MAINTENANCE SWITCH IN COMPLIANCE WITH NEC 240.87 (A) AND (B). PROVIDE DOCUMENTATION AND LABELING FOR THIS DEVICE IN ACCORDANCE WITH THIS CODE SECTION.

23. THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE EARTEST CONNECTED LOAD OR OUTLET SHALL

NOT EXCEED 5 PERCENT.



GENERAL NOTES

1. WHERE PANEL IS INDICATED TO INCLUDE FEED THRU LUGS, PROVIDE FEED THROUGH LUGS AT THE OPPOSITE END OF THE PANELBOARD FROM THE PANELBOARD MAIN LUGS.
2. WHERE PANEL IS INDICATED TO INCLUDE DOUBLE LUGS, PROVIDE A DOUBLE LUG KIT AT THE SAME END OF THE PANELBOARD AS THE PANELBOARD MAIN LUGS.
3. WHERE PANEL IS INDICATED AS RECESSED OR FLUSH MOUNTED, PROVIDE SHEETED UP INTO THE ACCESSIBLE CEILING SPACE. PROVIDE ONE (1) 3/4" CONDUIT ONLY FOR EACH THREE (3) SPACES OR SPACES, MINIMUM OF TWO (2). EACH CONDUIT SHALL BE TAGGED, CAPPED AND MARKED FOR FUTURE USE.
4. PROVIDE BREAKER INTERLOCK WITH ADJACENT BREAKER(S) FOR ANY MULTI-WIRE BRANCH CIRCUIT. BREAKER INTERLOCK GROUPING SHALL BE BY BRANCH CIRCUIT (B) AND NOT BY CIRCUIT. CIRCUITS SHARING A COMMON NEUTRAL NEC 210.4(B), COMMON YOKE NEC 210.7(B).
5. PROVIDE BREAKER LOCK OFF DEVICE ON ANY CIRCUIT BREAKER FEEDING A TRANSFORMER AS REQUIRED, PER NEC 450.14, WHEN AN EXISTING PANEL IS BEING ALTERED OR MODIFIED IN ANY WAY. CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID TO ADD BREAKER LOCK-OFF DEVICES TO EXISTING TRANSFORMER CIRCUIT BREAKERS BASED ON CONTRACTOR'S INVESTIGATION OF EXISTING CONDITIONS.
6. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE AND SHALL BE SUITABLE FOR 75 DEGREE AMPACITY CONDUCTORS.
7. ELECTRICAL PANELS SHALL BE DEAD FRONT SAFETY TYPE. PANELS SHALL BE MINIMUM 20" WIDE AND 5-3/4" DEEP UNLESS OTHERWISE NOTED.
8. ALL ELECTRICAL PANEL BUSSING SHALL BE TIN PLATED COPPER.
9. ELECTRICAL PANELS SHALL BE PROVIDED WITH PROVISIONS FOR FUTURE OF FAILS FOR LOAD DISAGGREGATION IN COMPLIANCE WITH CALIFORNIA ENERGY CODE, TITLE 24 2023, SECTION 130.5.
10. PANELBOARDS SHALL BE FULLY RATED, SERIES RATING IS NOT ACCEPTABLE.
11. ALL NEW CIRCUIT BREAKERS INSTALLED IN EXISTING PANELS SHALL MATCH THE HIGHEST EXISTING AIR RATED CIRCUIT BREAKER WITHIN THAT BOARD. INSPECTOR TO VERIFY HIGHEST AIR RATING AT THE SITE.

G1	L
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MOUNTING: FLUSH		REPLACED PANEL G1												BUS: 100A					
A.I.C. RATING: 10,000 AMPS		208 / 120 VOLTS, 3 PHASE, 4 WIRE												MAIN: MLO					
LOCATION: 3RD FLOOR CORRIDOR		FEEDER SHARED WITH PANEL G												Feeder OCPD: 100A Fed From: DPB					
WIRING	DESCRIPTION	Volt-Amps			Ltg	Rec	Misc	Ckt Brkr	Ckt No	Ckt Brkr	Ckt No	Misc	Rec	Ltg	Volt-Amps			DESCRIPTION	NOTES
		Ø AN	Ø BN	Ø CN				Ø AN	Ø BN	Ø CN									
	SPARE							208 1	2	208 1								SPARE	
	SPARE							208 3	4	208 1								SPARE	
	SPARE							208 5	5	208 1								SPARE	
	SPARE							208 7	5	208 1								SPARE	
	SPARE							208 9	10	208 1								SPARE	
	SPARE							208 11	12	208 1								SPARE	
	SPARE							208 13	14	208 1								SPARE	
	SPARE							208 15	16	208 1								SPARE	
	SPARE							208 17	18	208 1						1920		EXISTING LOAD	E
	SPARE							208 19	20	208 1						1920		EXISTING LOAD	E
E	EXISTING LOAD			1920				208 21	23	208 1						1920		EXISTING LOAD	E
E	EXISTING LOAD							208 23	24	208 1						1920		EXISTING LOAD	E
PANEL CALCULATION								Ø AN			Ø BN			Ø CN			Ø A + Ø B + Ø C		
CONNECTED LOAD								1,920 VA			3,840 VA			5,760 VA			11,520 VA		
								CONNECTED BALANCED LINE CURRENT = 32 A						HIGH LINE CURRENT (IC) = 48 A					
								LIGHTING LOAD @ 125%:			- VA			- VA			- VA		
								OTHER LCL @ 125%:			- VA			- VA			- VA		
								CONNECTED RECEPTACLE LOAD:			- VA			- VA			- VA		
								FIRST 10,000 VA @ 100%:			- VA			- VA			- VA		
								REMAINDER @ 50%:			- VA			- VA			- VA		
DEMAND LOAD								CONNECTED KITC. LOAD @ QTY:			- VA			- VA			- VA		
								KITC. LOAD @ DEMAND FACTOR:			- VA			- VA			- VA		
								OTHER NON LCL LOAD @ 100%:			- VA			- VA			- VA		
								LARGEST MOTOR @ 25%:			- VA			- VA			- VA		
								DEMAND LOAD:			1,920 VA			3,840 VA			5,760 VA		
								DEMAND BALANCED LINE CURRENT = 32 A						HIGH LINE CURRENT (IC) = 48 A					

MOUNTING : FLUSH		PANEL E												MAN: MLO		
277 V, 1PH, 2W.		A.I.C. RATING : 14,000												BUS: 100A		
NOTE	DESCRIPTION	VA	LITG	REC	MISC	BKBR	CIRC		CIRC	BKBR	MISC	REC	LITG	VA	DESCRIPTION	NOTE
	2ND FLR ADULT STACKS EM LIGHTING	440	X			2011	1		2	2011			X	123	1ST FLR CHILDREN'S EM LIGHTING	
	2ND FLR ADULT SEATING EM LIGHTING	292	X			2011	3		4	2011			X	220	1ST FLR RESTROOM AND ENTRY EM LIGHTING	
	2ND FLR STAFF WORK AREA EM LIGHTING	760	X			2011	5		6	2011			X	163	1ST FLR STAFF AREA EM LIGHTING	
	2ND FLR ARC STACKS EM LIGHTING	480	X			2011	7		8	2011			X	153	1ST FLR TEEN AREA EM LIGHTING	
						2011	9							10		
						2011	11							12		
						2011	13							14		
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E	EXISTING CIRCUIT TO REMAIN. INDICATED LOAD PER AVAILABLE RECORD DRAWINGS.
G	PROVIDE GFI TYPE CIRCUIT BREAKER.
L	UPDATE CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE "OFF POSITION".
N	NEW NEW CIRCUIT BREAKER IN EXISTING PANEL. UPDATE CIRCUIT DIRECTORY TO REFLECT NEW LOAD.
X	REMOVE EXISTING LOAD FROM INDICATE CIRCUIT AND RELABEL CIRCUIT AS SPARE IN CIRCUIT DIRECTORY.
1	PROVIDE LOCK-ON TYPE CIRCUIT BREAKER, RED IN COLOR FOR FIRE ALARM POWER SUPPLY.
2	EXISTING CIRCUIT TO BE REMOVED. REUSE EXISTING CIRCUIT BREAKER FOR NEW LOAD. UPDATE CIRCUIT DIRECTORY TO REFLECT NEW LOAD.

- 1 REMOVE LIGHTING CONTACTOR CONTROL FROM SPLIT BUS PANEL. PROVIDE JUMPER CABLE CONNECTION BETWEEN SPLIT BUS SECTIONS. LIGHTING CONTACTOR TO BE REMOVED FROM ENCLOSURE.
- 2 INDICATED LOADS PER AVAILABLE RECORD DRAWINGS.
- 3 EXISTING BRANCH CIRCUIT LOAD UNKNOWN, BOX LOAD USED AS WORST CASE SCENARIO.
- 4 INDICATED LOADS PER AVAILABLE RECORD DRAWINGS PLUS ADDED LOADS.

1. DURING CONSTRUCTION, DE-ENERGIZE AND TORQUE ALL EXISTING TO REMAIN BRANCH CIRCUIT BREAKERS AND FEEDER BREAKERS FOR ALL EXISTING PANELS.

1. WHERE PANEL IS INDICATED TO INCLUDE FEED THRU LUGS, PROVIDE FEED THROUGH LUGS AT THE OPPOSITE END OF THE PANELBOARD FROM THE PANELBOARD MAIN LUGS.
2. WHERE PANEL IS INDICATED TO INCLUDE DOUBLE LUGS, PROVIDE A DOUBLE LUG KIT AT THE SAME END OF THE PANELBOARD AS THE PANELBOARD MAIN LUGS.
3. WHERE PANEL IS INDICATED AS RECESSED OR FLUSH MOUNTED, PROVIDE A RECESSED OR FLUSH MOUNTED UP INTO THE ACCESSIBLE CEILING SPACE. PROVIDE ONE (1) 3/4" CONDUIT ONLY FOR EACH THREE (3) SPACES OR SPACES, MINIMUM OF TWO (2). EACH CONDUIT SHALL BE TAGGED, CAPPED AND MARKED FOR FUTURE USE.
4. PROVIDE BREAKER INTERLOCK WITH ADJACENT BREAKER(S) FOR ANY MULTI-WIRE BRANCH CIRCUIT. BREAKER INTERLOCK GROUPING SHALL BE BY BRANCH CIRCUIT (4) AND BY CIRCUITS SHARING A COMMON NEUTRAL NEC 210.4(b), COMMON YOKE NEC 210.7(b).
5. PROVIDE BREAKER LOCK OFF DEVICE ON ANY CIRCUIT BREAKER FEEDING A TRANSFORMER AS REQUIRED, PER NEC 450.14, WHEN AN EXISTING PANEL IS BEING ALTERED OR MODIFIED IN ANY WAY. CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID TO ADD BREAKER LOCK-OFF DEVICES TO EXISTING TRANSFORMER CIRCUIT BREAKERS BASED ON CONTRACTOR'S INVESTIGATION OF EXISTING CONDITIONS.
6. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE AND SHALL BE SUITABLE FOR 75 DEGREE AMPACITY CONDUCTORS.
7. ELECTRICAL PANELS SHALL BE DEAD FRONT SAFETY TYPE. PANELS SHALL BE MINIMUM 20" WIDE AND 5-3/4" DEEP UNLESS OTHERWISE NOTED.
8. ALL ELECTRICAL PANEL BUSSING SHALL BE TIN PLATED COPPER.
9. ELECTRICAL PANELS SHALL BE PROVIDED WITH PROVISIONS FOR FUTURE OF BY FOR A LOAD DISAGGREGATION IN COMPLIANCE WITH CALIFORNIA ENERGY CODE, TITLE 24 2023, SECTION 130.5.
10. ALL PANELS SHALL BE FULLY RATED, SERIES RATING IS NOT ACCEPTABLE.
11. ALL NEW CIRCUIT BREAKERS INSTALLED IN EXISTING PANELS SHALL MATCH THE HIGHEST EXISTING CIRC RATED CIRCUIT BREAKER WITH THAT BOARD. INSPECTOR TO VERIFY HIGHEST CIR RATING AT THE SITE.

-	J1
-	G
-	B

1 NOT USED.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

NOTE: ALL MECHANICAL AND PLUMBING INFORMATION SHOWN IS FOR REFERENCE ONLY AND MUST BE VERIFIED WITH LATEST MECHANICAL OR PLUMBING DRAWINGS AND ACTUAL PURCHASED EQUIPMENT PRIOR TO ANY ROUGH-IN, MATERIALS ORDERING, AND FINAL CONNECTIONS.

[illegible]

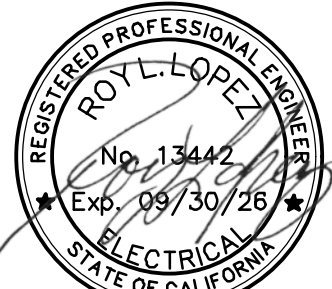
1. REFER TO MECHANICAL/PLUMBING CONNECTION NOTES FOR ADDITIONAL INFORMATION. ALSO REFER TO, AND INSTALL PER MECHANICAL AND PLUMBING DETAILS/DIAGRAMS INCLUDING CONTROL CONDUIT, WIRING, AND INTER LOCKING.

1. ALL ELECTRICAL EQUIPMENT ON ROOF OR EXPOSED TO DAMP/WET CONDITIONS SHALL BE PROVIDED WITH WEATHERPROOF HARDWARE/ACCESSORIES AND/OR NEMA 3R RATED ENCLOSURES.
2. FINAL CONNECTION TO MECHANICAL/PLUMBING EQUIPMENT SHALL BE MADE WITH FLEXIBLE METAL CONDUIT OR LIQUID TIGHT FLEX WHERE REQUIRED.
3. ALL OVER CURRENT AND OVERLOAD PROTECTIVE DEVICES SHALL BE SIZED PER MECHANICAL EQUIPMENT MANUFACTURER'S NAMEPLATE INCLUDING FUSES AND CIRCUIT BREAKERS.
4. ALL OVER CURRENT PROTECTIVE DEVICES SHALL BE RATED 300V OR 600V, AS REQUIRED, HEAVY-DUTY TYPE.
5. PROVIDE ALL REQUIRED 120V (AND ABOVE VOLTAGES) WIRING AND RACEWAY FOR MECHANICAL EQUIPMENT INTERLOCK, CONTROLS, FIRE ALARM, ENERGY MANAGEMENT AND TEMPERATURE CONTROL SYSTEMS AS DEEMED NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. COORDINATE ALL REQUIREMENTS WITH MECHANICAL SYSTEM DOCUMENTS AND DIVISION 15 SPECIFICATIONS PRIOR TO START OF WORK.
6. REFER TO MECHANICAL CONSTRUCTION DRAWINGS FOR LOCATION OF ALL MECHANICAL EQUIPMENT. COORDINATE LOCATION IN FIELD PRIOR TO ROUGH-IN.
7. ALL BRANCH CIRCUIT PENETRATIONS THROUGH RATED WALLS, FLOORS OR CEILINGS SHALL BE SEALED WITH UL LISTED AND APPROVED RATED SEALANTS/ASSEMBLIES. PERFORM PENETRATIONS SUCH THAT FIRE RATING OF ROOF AND/OR WALLS IS MAINTAINED.
8. ELECTRICAL CONTRACTOR SHALL VERIFY MECHANICAL EQUIPMENT VOLTAGES AND PHASE, AND COORDINATE WITH MECHANICAL CONSTRUCTION DRAWINGS AND EQUIPMENT SHOP DRAWINGS.
9. MOUNT DISCONNECT SWITCHES SUCH THAT CEQ REQUIRED WORKING CLEARANCE IS MAINTAINED.
10. PROVIDE 120V CONNECTIONS TO ALL DUCT/SMOKE DETECTORS UNLESS OTHERWISE NOTED OR INDICATED BY EQUIPMENT MANUFACTURER IF DEVICE IS MANUFACTURER INSTALLED AND WIRED INTERNALLY.
11. PROVIDE 20A 125V GFCI RECEPTACLE WEATHER PROOF/WEATHER RESISTANT EXTRA DUTY WITHIN 25FT OF HVAC EQUIPMENT AS REQUIRED BY MECHANICAL AND ELECTRICAL CODE.

NOTE: ALL MECHANICAL AND PLUMBING INFORMATION SHOWN IS FOR REFERENCE ONLY AND MUST BE VERIFIED WITH LATEST MECHANICAL OR PLUMBING DRAWINGS AND ACTUAL PURCHASED EQUIPMENT PRIOR TO ANY ROUGH-IN, MATERIALS ORDERING, AND FINAL CONNECTIONS.

NOTE: ALL MECHANICAL AND PLUMBING INFORMATION SHOWN IS FOR REFERENCE ONLY AND MUST BE VERIFIED WITH LATEST MECHANICAL OR PLUMBING DRAWINGS AND ACTUAL PURCHASED EQUIPMENT PRIOR TO ANY ROUGH-IN, MATERIALS ORDERING, AND FINAL CONNECTIONS.

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DATE:	07/15/2025

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TYPE	DESCRIPTION	FINISH	LED	DRIVER	WATTAGE	MANUFACTURER & PART NUMBER	REMARKS
L01A	2X4 EDGELITE FLAT PANEL	WHITE	1 - 45W LED 35K	0 - 10V DIMMING	45	COLUMBIA - SRP24-35-ML-G-ED-U	RECESSED
L01B	2X4 EDGELITE FLAT PANEL	WHITE	1 - 54W LED 35K	0 - 10V DIMMING	54	COLUMBIA - SRP24-35-HL-G-ED-U	RECESSED
L02A	2X2 EDGELITE FLAT PANEL	WHITE	1 - 18W LED 35K	0 - 10V DIMMING	18	COLUMBIA - SRP22-35-MW-G-ED-U	RECESSED
L02B	2X2 EDGELITE FLAT PANEL	WHITE	1 - 23W LED 35K	0 - 10V DIMMING	23	COLUMBIA - SRP22-35-LW-G-ED-U	RECESSED
L03A	4IN LED DOWNLIGHT XTRAWIDE OPTIC	SEMI SPECULAR WHITE TRIM	1 - 18.6W LED 35K	0 - 10V DIMMING 0.01	18.6	PRESCOLITE - LTR-4RD-H-SL-15L-DM1-LTR-4RD-T-SL-35K-XW-SS-WT	RECESSED
L03B	4IN LED DOWNLIGHT WIDE OPTIC	SEMI SPECULAR WHITE TRIM	1 - 12W LED 35K	0 - 10V DIMMING 0.01	12	PRESCOLITE - LTR-4RD-H-SL-10L-DM1-LTR-4RD-T-SL-35K-WD-SS-WT	RECESSED
L03C	4IN LED DOWNLIGHT WIDE OPTIC	SEMI SPECULAR WHITE TRIM	1 - 18.6W LED 35K	0 - 10V DIMMING 0.01	18.6	PRESCOLITE - LTR-4RD-H-SL-15L-DM1-LTR-4RD-T-SL-35K-WD-SS-WT	RECESSED
L03D	4IN LED DOWNLIGHT WIDE OPTIC	SEMI SPECULAR WHITE TRIM	1 - 7.8W LED 35K	0 - 10V DIMMING 0.01	7.8	PRESCOLITE - LTR-4RD-H-SL-06L-DM1-LTR-4RD-T-SL-35K-WD-SS-WT	RECESSED
L03F	4IN LED DOWNLIGHT WIDE OPTIC	SEMI SPECULAR WHITE TRIM	1 - 27.8W LED 35K	0 - 10V DIMMING 0.01	27.8	PRESCOLITE - LTR-4RD-H-SL-25L-DM1-LTR-4RD-T-SL-35K-XW-SS-WT	RECESSED
L04A	6FT LED LINEAR WITH 2.5IN APERTURE SATIN LENS SURFCE MOUNT	PREMIUM COLOR	1 - 33.6W LED 35K	0 - 10V DIMMING 0.01	33.6	PRUDENTIAL - BPRO3-LIN-FLSH-LED35-MO-6-Y(XX)-SAL-NU-SC-UNV-SUR-DM01	SURFACE
L04B	6FT LED LINEAR WITH 2.5IN APERTURE SATIN LENS SURFCE MOUNT	PREMIUM COLOR	1 - 46.8W LED 35K	0 - 10V DIMMING 0.01	46.8	PRUDENTIAL - BPRO3-LIN-FLSH-LED35-SO-6-Y(XX)-SAL-NU-SC-UNV-SUR-DM01	SURFACE
L05	4FT LED STRIP LIGHT WITH CURVED LENS NARROW OPTIC ADJUSTABLE CABLE	WHITE	1 - 56.4W LED 35K	0 - 10V DIMMING	56.4	COLUMBIA - MPS-4-35-XL-CN-ED-U-MPSCE-CM48	PENDANT
L05A	4FT LED STRIP LIGHT WITH CURVED LENS NARROW OPTIC	WHITE	1 - 56.4W LED 35K	0 - 10V DIMMING	56.4	COLUMBIA - MPS-4-35-XL-CN-ED-U-MPSCE	SURFACE
L06	26IN LONG LED VANITY LIGHT DAMP LISTED	FINISH	1 - 16W LED 35K	0 - 10V DIMMING	16	BROWNLEE - 5260-26-FINISH-H16-35K	SURFACE
L07	6FT LED PENDANT WITH CENTER OPEN SEMI-INDIRECT WITH DECORATIVE COLORED END CAPS	FINISH STANDARD INSERT FINISH ENDS TBD	1 - 50.4W LED 35K	0 - 10V DIMMING 0.01	50.4	LITECONTROL - AIRA-P-SD-LPA-6-6-SOF-FINISH-INSERT FINISH-35K9-SD100-D01-1C-UNV-FA1	PENDANT
L07A	6FT LED PENDANT WITH CENTER OPEN SEMI-INDIRECT WITH DECORATIVE COLORED END CAPS	FINISH STANDARD INSERT FINISH ENDS TBD	1 - 61.2W LED 35K	0 - 10V DIMMING 0.01	61.2W	LITECONTROL - AIRA-P-SD-LPA-6-6-SOF-FINISH-INSERT FINISH-35K9-SD120-D01-1C-UNV-FA1	PENDANT
L08	6FT LED LINEAR PENDANT 4IN APERTURE WITH SATIN LENS CABLE MOUNTED	WHITE	1 - 27.6W LED 35K	0 - 10V DIMMING 0.01	27.6	LITE CONTROL - 4L-P-D-6FT-06-SOF-C1-35K9-D055-D01-IC-UNV-FA1-	PENDANT
L09	15.5' DECORATIVE PENDANT BARREL WITH OPTION FINISHES FOR INSIDEAND EXTERIOR	TBD	1 - 11W LED 35K	0 - 10V DIMMING	11	BROWNEE - 2670-16-FINISH-R11-FINISH-CORD-35K	PENDANT
L10	WALL SCONCE WITH PERFORATED METAL LENS 11 1/2IN TALL BY 10 1/2IN WIDE PERIMETER TROUGH SYSTEM 2 1/2IN APERTURE WITH WALL GRAZING OPTICS WALL TO WALL COVERAGE	STANDARD FINISHES	1 - 21W LED 35K	0 - 10V DIMMING 0.01	21	BROWNLEE - CB250-L35KH-MVOLT-FINISH PRUDENTIAL - BPRO3-PER-FLSH-LED35-LO-R-TMW-MGZ-WTW-SC-UNV-X(TBD)-DM01CONTRACTOR TO VERIFY FINAL WALL MEASUREMENTS PRIOR TO ORDERING	WALL
L11		WHITE	1 - 3.8W/FT LED 35K	0 - 10V DIMMING 0.01	3.8W/FT		RECESSED
L12A	10FT DIAMETER RING 2.5IN APERTURE WITH DIRECT OPTIC	WHITE	1 - 236.8W LED 35K	0 - 10V DIMMING 0.01	236.8	BASO-CIRCLE 2.5-PDT-WH-OP-35K-C80-UNV-010V-0750LF-SC-DM120	PENDANT
L12B	4FT DIAMETER RING 2.5IN APERTURE SURFACE MOUNT	WHITE	1 - 97.7W LED 35K	0 - 10V DIMMING 0.01	97.7	BASO - CIRCLE-2.5-SUR-WH-OP-35K-C80-UNV-010V-0750LF-SC-DM48	SURFACE
L12C	3FT DIAMETER RING 2.5IN APERTURE SURFACE MOUNT	WHITE	1 - 74W LED 35K	0 - 10V DIMMING 0.01	74	BASO-CIRCLE 2.5-SUR-WH-OP-35K-C80-UNV-010V-0750LF-SC-DM36	SURFACE
L13A	4FT DIAMETER ROUND PENDANT WITH OFF CENTER HOLE WITH SATIN LENS	PREMIUM COLOR	1 - 97W LED 35K	0 - 10V DIMMING 0.01	97	PRUDENTIAL - OLV-40-LED35-MO-FWA-Y(TBD)-D1-SC-UNV-CA48-X(TBD)-DM01	PENDANT
L13B	3FT DIAMETER ROUND PENDANT WITH SATIN LENS	PREMIUM COLOR	1 - 56W LED 35K	0 - 10V DIMMING 0.01	56	PRUDENTIAL - P4030-LED35-LO-FWA-Y(XX)-D1-SC-UNV-CA48-X(TBD)-DM01	PENDANT
L13C	2FT DIAMETER ROUND PENDANT WITH SATIN LENS	PREMIUM COLOR	1 - 35W LED 35K	0 - 10V DIMMING 0.01	35	PRUDENTIAL - P4020-LED35-LO-FWA-Y(XX)-D1-SC-UNV-CA48-X(TBD)-DM01	PENDANT
L13D	18IN DIAMETER ROUND PENDANT WITH SATIN LENS	PREMIUM COLOR	1 - 19W LED 35K	0 - 10V DIMMING 0.01	19	PRUDENTIAL - P4018-LED35-LO-FWA-Y(XX)-D1-SC-UNV-CA48-X(TBD)-DM01	PENDANT
L13F	2FT DIAMETER ROUND SURFACE WITH SATIN LENS	PREMIUM COLOR	1 - 76.2W LED 35K	0 - 10V DIMMING 0.01	76.2	PRUDENTIAL - P4020-LED35-PROG5500LUMENS -FWA-Y(XX)-D1-SC-UNV-SUR-X(TBD)-DM01	SURFACE
L14	2 1/4IN DIAMETER STACK LIGHT WITH CUSTOM ARMS MOUNTED INTOLIBRARY STACKS	STANDAR FINISH	1 - 4W/FT LED 35K	0 - 10V DIMMING 0.01	4W/FT	BARTCO - BSS510-35-D-PROG 450LUMENS/FT-CF-FINISHLIGHTING TO BE PROVIDED BY STACK MANUFACTURER	STACK MOUNT
L15	LINEAR LED 1.38IN WIDE BY .75 TALL WITH REMOTE DRIVERS	WHITE	1 - 6.6W/FT LED 35K	0 - 10V DIMMING 0.01	6.6W/FT	VODE-707-Z2-SL-ROW-ROW-TBD-0-AEO-2-ZZ-Z-SO-35-F5-0-WH-0-	SURFACE
L16	2IN LED RECESSED DOWNLIGHT WITH MICROFLANGE	STANDARD FINISHES	1 - 25W LED 35K	0 - 10V DIMMING 0.01	25	KURT VERSEN - NOR-2.5R-DL-NHN-25-935K-WD-DM1-N-U-RMB-NOR-2.5R-DS-TRM-FINISH-FINISH-SOL	RECESSED
L17A	LINEAR RECESSED LED WITH 4IN APERTURE WITH SATIN LENS	WHITE	1 - 9.5W/FT LED 35K	0 - 10V DIMMING 0.01	9.5W/FT	LITE CONTROL - 4L-TBD-D-ROW-SOF-C1-35K9-D115-D01-IC-UNV-	RECESSED
L18	UNDERCABINET LIGHTING IN 1FT, 2FT, 3FT AND 4FT LENGTHS	WHITE	1 - 5W/FT LED 3K	0-10V DIMMING	5W/FT	CORE LIGHTING -USB-ROW-30K-SI-24PROVIDE ALL NECESSARY ACCESSORIES FOR INSTALL AND DRIVERS	SURFACE
L19	LINEAR CURVE DIRECT PENDANT 44FT LONG CUSTOM CURVE	FINISH	1 - 189.2W/FT LED 35K	0 - 10V DIMMING 0.01	189.2	BASO-CURVE-2.5-PDT-XX-OP-35K-C80-UNV-010V-0500LF-SC-44FT	PENDANT
L20	COVE IN A BOX PERIMETER	WHITE	1 - 6.5W/FT LED 35K	0 - 10V DIMMING 0.01	6.5W/FT	PRUDENTIAL - P59-A6-LED35-MO-R-W-SC-UNV-X(TBD)-DM01	RECESSED
L21A	16IN LED DECORATIVE ROUND PENDANT WITH RECESSED LENSWITH OPTIONAL FINISHES INTERIOR AND EXTERIOR	FINISH TBD	1 - 11W LED 35K	0 - 10V DIMMING 0.01	11	BROWNLEE - 2680-16-FINISH-R11-FINISH-CC1-CORD-35K	PENDANT
L21B	20IN LED DECORATIVE ROUND PENDANT WITH RECESSED LENSWITH OPTIONAL FINISHES INTERIOR AND EXTERIOR	FINISH TBD	1 - 34W LED 35K	0 - 10V DIMMING 0.01	34	BROWNLEE - 2680-20-FINISH-R34-FINISH-CC1-CORD-35K	PENDANT
L21C	30IN LED DECORATIVE ROUND PENDANT WITH RECESSED LENSWITH OPTIONAL FINISHES INTERIOR AND EXTERIOR	FINISH TBD	1 - 49W LED 35K	0 - 10V DIMMING 0.01	49	BROWNLEE - 2680-30-FINISH-S49-FINISH-CC1-CORD-35K	PENDANT
L24A	DECORATIVE SURFACE MOUNT BARREL 16IN OPTIONAL FINISH FOR INTERIOR AND EXTERIOR	FINISH TBD	1 - 23W LED 3K	0 - 10V DIMMING	23	BROWNLEE - 2470-16-FINISH-R22-FINISH-35K	SURFACE
L24B	DECORATIVE SURFACE MOUNT BARREL 19IN OPTIONAL FINISH FOR INTERIOR AND EXTERIOR	FINISH TBD	1 - 32W LED 3K	0 - 10V DIMMING	32	BROWNLEE - 2472-19-FINISH-L32-FINISH-35K	SURFACE
L24C	DECORATIVE PENDANT MOUNT BARREL 16IN OPTIONAL FINISH FOR INTERIOR AND EXTERIOR	FINISH TBD	1 - 18W LED 3K	0 - 10V DIMMING	18	BROWNLEE - 2670-16-FINISH-18-FINISH-35K-CE2	PENDANT
L24D	DECORATIVE PENDANT MOUNT BARREL 24IN OPTIONAL FINISH FOR INTERIOR AND EXTERIOR	FINISH TBD	1 - 49W LED 3K	0 - 10V DIMMING	49	BROWNLEE - 2672-24-FINISH-R49-FINISH-35K-CE2	PENDANT
L24F	DECORATIVE PENDANT MOUNT BARREL 19IN OPTIONAL FINISH FOR INTERIOR AND EXTERIOR	FINISH TBD	1 - 32W LED 3K	0 - 10V DIMMING	32	BROWNLEE - 2672-19-FINISH-L32-FINISH-35K-CE2	PENDANT
L25	4IN LED CYLINDER SUSPENDED	STANDARD FINISH	1 - 18.6W LED 35K	0 - 10V DIMMING	18.6	PRESCOLITE - LTC-4RD-P(TBD)-15L-35K-8-XW-DM1-SS-FINISH-, FINISH ESTIMATED AT 2FT CONTRACTOR TO CONFIRM LEVEL TO BLADES VODE - 707-Z2-S-72-72-CC-ZZ-AE-2-Z-LO-35-S4-0FIXTURE MOUNTED 10.5FT AFF ESTMATED LENGTH AROUND 10FT CONTRACTOR TO CONFIRM EXACT LENGTH	PENDANT
L28	6FT CABLE MOUNTED CURVED 1.38" WIDE .06" TALL	BLACK	1 - 22.8 LED 35K	0 - 10V DIMMING	22.8	VIBIA - 2342-03	PENDANT
L29	GROUP OF 6 LINEAR TRANGLE GLOW PENDANTS	WHITE	1 - 91.8W LED 35K	0 - 10V DIMMING	91.8		PENDANT
L30	17.5IN DOME PENDANT LIGHT OPTIONAL INTERIOR AND EXTERIOR FINISH	FINISH TBD	1 - 23W LED 35K	0 - 10V DIMMING	32	DELRAY - IL793-FINISH-FINISH-W35-L-TBD-D-XP	PENDANT
L31A	SMALL LINEAR WRAP CURVED LENS WITH LIBRARY STACK OPTICS	WHITE	1 - 5.1W/FT LED 35K	0 - 10V DIMMING	5.1W/FT	PRUDENTIAL - R1-PRO-LED35-PROG 720LUMENS/FT-ROW-LLP-TMW-CA48-(X)-DM01	PENDANT
L31B	SMALL LINEAR WRAP CURVED LENS WITH LIBRARY SATIN LENS	WHITE	1 - 5.1W/FT LED 35K	0 - 10V DIMMING	5.1W/FT	PRUDENTIAL - R1-PRO-LED35-PROG 720LUMENS/FT-ROW-SAL-TMW-CA48-(X)-DM01	PENDANT
L32	17.5IN DOME PENDANT LIGHT OPTIONAL INTERIOR AND EXTERIOR FINISH	FINISH TBD	1 - 32W LED 35K	0 - 10V DIMMING	32	DELRAY - IL793-FINISH-FINISH-W35-L-TBD-D-	PENDANT
L33A	CIRCUAR PENDANTS GROUP OF 2 TO MATCH L29 SERIES	WHITE	1 - 4W LED 3K	0 - 10V DIMMING	46	VIBIA - 2331-03	PENDANT
L33B	CIRCUAR PENDANTS GROUP OF 3 TO MATCH L29 SERIES	WHITE	1 - 69W LED 3K	0 - 10V DIMMING	69	VIBIA - 2332-03	PENDANT
X01	FULL CUTOFF WALL SCONCE	STANDARD FINISH	1 - 36.9W LED 4K	INTEGRAL DAYLIGHT OCCPANCY SENSOR	36.9	BEACON - RWL1-48L-35-4K7-4W-FINISH-SCP	WALL

LIGHTING FIXTURE SCHEDULE

LIGHTING FIXTURE GENERAL NOTES:

- FIXTURES SHALL HAVE APPROPRIATE UL LABEL, DAMP, OR WET AS REQUIRED BY CODES AND ORDINANCES.
- LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE ALL NECESSARY HARDWARE AS REQUIRED BY THE SPECIFICATIONS, DRAWINGS, AND PROJECT CONDITIONS FOR A COMPLETE AND OPERABLE INSTALLATION.
- PRIOR TO ORDERING ANY LIGHTING EQUIPMENT, THE CONTRACTOR SHALL COORDINATE ALL FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND CEILING CAVITY DEPTHS.
- CONTRACTOR SHALL COORDINATE ALL FIXTURE TYPE(S), LOCATION(S), LENGTHS, AND QUANTITY WITH ARCHITECTURAL DRAWINGS PRIOR TO PURCHASE OF FIXTURES. IF THERE IS A DISCREPANCY BETWEEN EACH DISCIPLINES DRAWINGS CONTRACTOR TO CONTACT ARCHITECT AND/OR ENGINEERING PRIOR TO PURCHASE OF ANY FIXTURES.
- CONTRACTOR SHALL VERIFY FIXTURE VOLTAGES AND CEILING TRIM COMPATIBILITY PRIOR TO ORDERING FIXTURE INCLUDING SLOPED CEILING ADAPTERS SUCH THAT RECESSED DOWN LIGHT FIXTURE LENSES ARE INSTALLED FLUSH WITH CEILING.
- PROVIDE APPROVED FIRE-RATED ENCLOSURES FOR ALL LIGHTING FIXTURES LOCATED IN FIRE-RATED CEILINGS.
- ENSURE COMPATIBILITY OF ALL LIGHTING SYSTEM COMPONENTS SUCH AS DIMMING SYSTEMS. FIXTURES, LAMPS, BALLAST(S)/ DRIVER(S), DIMMING PROTOCOL, AND DIMMING SYSTEMS/INDIVIDUAL CONTROLS MUST BE FACTORY CERTIFIED COMPATIBLE FOR FULL RANGE OF DIMMING COMPATIBILITY.
- PROVIDE CLEARANCES FROM COMBUSTIBLES A MINIMUM OF 1/2" (OTHER THAN AT POINTS OF SUPPORT) AND 3" FROM INSULATION FOR RECESSED LIGHTING FIXTURES WHICH MUST BE NON-IC RATED.
- PROVIDE A MINIMUM OF TWO (2) #12 SUPPORT WIRES ATTACHED TO BUILDING FRAME IN ADDITION TO T-BAR CLIPS FOR FIXTURES RECESSED IN SUSPENDED T-BAR CEILING.
- PROVIDE (4) SHEET METAL SCREWS, ONE INSTALLED IN EACH CORNER OF THE FIXTURE ATTACHING THE FIXTURE TO THE GRID. SCREWS SHALL NOT BE VISIBLE NOR IMPEDE INSTALLATION OF GRID PANELS.
- PROVIDE DOOR-TO-FRAME AND LENS-TO-DOOR CASKETING, INVERTED LENS, AND FOOD SERVICE RATING FOR ALL FIXTURES LOCATED IN FOOD SERVICE AREAS.
- FIXTURES SHALL BE ORDERED WITH APPROPRIATE BALLAST(S)/ DRIVER THAT HAVE UL AND CBM LABELS. ALL BALLASTS/ DRIVER MUST CONFORM TO TITLE 24 REQUIREMENTS FOR PERFORMANCE AND EFFICIENCY.
- ALL FIXTURES, TRIMS, REFLECTORS, AND LAMPS SHALL BE CLEANED FREE FROM DIRT, DUST, LABEL ADHESIVE, AND FINGER PRINTS.
- ALL LIGHT FIXTURES SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH OSHA STANDARDS AND ALL LOCAL, STATE, AND NATIONAL ELECTRICAL CODES. PROVIDE ALL REQUIRED SEISMIC BRACING FOR SUSPENDED LIGHT FIXTURES.
- PROVIDE LIGHT FIXTURE MOUNTING KITS AS REQUIRED TO SUIT THE EXACT TYPE OF CEILING TO WHICH THEY ARE MOUNTED.
- COORDINATE FIXTURE AND TRIM FINISHES WITH ARCHITECT PRIOR TO ORDERING.
- EACH DIMMED CIRCUIT SHALL CARRY A SEPARATE NEUTRAL CONDUCTOR WITH TRACER COLOR TO MATCH PHASE CONDUCTOR.
- ALL NECESSARY EQUIPMENT/ COMPONENTS ARE TO BE PROVIDED BY CONTRACTOR FOR A COMPLETE OPERATING CONTROL SYSTEM, INCLUDING BUT NOT LIMITED TO EMERGENCY LIGHTING, OCCUPANCY SENSOR, DAYLIGHT CONTROLS, AND DIMMING TO MEET ALL REQUIREMENTS OF 2018 CALIFORNIA TITLE 24.
- ALL LIGHTING FIXTURES INSTALLED SHALL BE COMPATIBLE WITH THE LIGHTING CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO ELV DIMMERS, MLY DIMMERS, 0-10V DIMMERS AND SHALL BE INCLUDED IN THE BID DOCUMENTS.
- NONRESIDENTIAL, HIGH-RISE RESIDENTIAL AND HOTEL/ MOTEL BUILDINGS SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF CALIFORNIA TITLE 24 SECTIONS 130.4(a) THROUGH 130.4(c). A CERTIFICATE OF ACCEPTANCE SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY UNDER SECTION 10-103(g) OF PART 1 FOR AUTOMATIC DAY LIGHT CONTROLS AND LIGHTING CONTROLS.
- ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BASE BID AND CONTRACT INSTALLATION AND COMMISSIONING OF ALL LIGHTING CONTROLS INCLUDING BUT NOT LIMITED TO OCCUPANCY SENSORS, TIMERS, DIMMING CONTROLS, AND DAY-LIT ZONE CONTROLS. CONTRACTOR IS ALSO REQUIRED TO VERIFY THAT THE LIGHTING CONTROLS ARE ADJUSTABLE PROGRAMMED AND FUNCTIONING IN ACCORDANCE WITH THE DESIGN AND MANUFACTURE'S INSTALLATION INSTRUCTIONS.
- CONTRACTOR IS RESPONSIBLE FOR SUBMITTING DOCUMENTATION (INSTALLATION FORMS [NRO]) CERTIFYING THAT THE LIGHTING SYSTEMS ARE IN COMPLIANCE WITH OR EXCEED THE PERFORMANCE REQUIREMENTS. CONTRACTOR SHALL ALSO FURNISH CEC T24 REQUIRED FUNCTIONAL PERFORMANCE TESTING BY A CERTIFIED LIGHTING CONTROLS TEST TECHNICIAN (CALCATT) AND/ OR SUBMIT DOCUMENTATION (ACCEPTANCE FORMS [NPCA]) AS REQUIRED.
- ALL LIGHTING CONTROLS AND EQUIPMENT SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS IN CALIFORNIA ENERGY CODE 110.9 AND STALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION IN ACCORDANCE WITH SECTION 130.1.
- FOR LED FIXTURES, THE DRIVER, LED AND FIXTURE SHALL BE FULLY UL CERTIFIED AS A SYSTEM, INCLUDING ANY OPTIONAL EMERGENCY BATTERY PACKS, SPECIAL DRIVERS (DIMMING), COMPONENTS LISTED DISCRETELY SHALL NOT BE PERMITTED.
- PHOTOMETRIC TESTING FOR ALL LED FIXTURES SHALL BE FOR IES LM-70-80 AND TEST REPORTS SHALL BE INCLUDED WITH ALL FIXTURES SUBMITTALS.
- LUMEN MAINTENANCE REPORTS (IES LM-80) REPORTS ARE ALSO REQUIRED WITH ALL LED FIXTURE SUBMITTALS. LM-80 RESULTS ARE TO INCLUDE A MINIMUM OF 10,000 HOURS TESTING AND REFERENCED TO TM-21 FOR TOTAL LUMEN MAINTENANCE. NO EXTRAPOLATED L-70 ESTIMATES WILL BE ACCEPTED.
- PROVIDE A MINIMUM 5 YEAR WARRANTY ON AN LED FIXTURES.
- PROVIDE STANDARD DEVIATION OF COLOR MATCHING (SDCM) BASED ON THE MAC ADAM ELLIPSE, AND NUMBER'S OR QUANTITIES OF ELLIPSE VARIATIONS FOR LED COLOR ACCURACY.
- ALL LED FIXTURES SUBMITTALS SHALL INCLUDE DATA ON LED CHIP MANUFACTURER AND CHIP DATA, AS WELL AS DRIVER MANUFACTURER, DATA AND CUT SHEETS.
- LAMPS SHALL BE PROVIDED AND INSTALLED ACCORDING TO THIS FIXTURE SCHEDULE AND PROJECT SPECIFICATIONS. ENSURE COMPATIBILITY BETWEEN FIXTURE, LAMP AND BALLAST(S).
- FLUORESCENT FIXTURES TO BE SUPPLIED WITH "QUICK DISCONNECT" SAFETY BALLAST HARDWARE WHICH ARE UL AND CSA CERTIFIED IN ACCORDANCE WITH CEC 410.130(G).
- FLUORESCENT AND HIGH INTENSITY DISCHARGE BALLASTS SHALL BE ELECTRONIC TYPE. PROVIDE END OF LIFE (EOL) SHUT-DOWN PROTECTION FOR COMPACT FLUORESCENT LAMPS.

EMERGENCY LIGHTING NOTES:

- PROVIDE EMERGENCY REFLECTORS OR HOUSING WHEN OPTION IS AVAILABLE FROM MANUFACTURE TO ALLOW FOR INSTALLATION OF BATTERY PACKS, TEST SWITCHES, PILOT LIGHTS, ETC. WITHIN FIXTURES.
- WHEN OPTIONAL EMERGENCY REFLECTORS OR HOUSINGS ARE NOT AVAILABLE, REMOTE BATTERY PACKS, TEST SWITCHES, PILOT LIGHTS, ETC. ARE TO BE INSTALLED IN THE MOST CONSPICUOUS LOCATION AS ALLOWED BY CODE AND LOCAL AHA REQUIREMENTS. COORDINATE LOCATION WITH ARCHITECT AND/OR ELECTRICAL ENGINEER PRIOR TO ANY ROUGH-IN.
- ALL NIGHT LIGHTS, BATTERY PACKS AND EXIT SIGNS SHALL CONTAIN AN UNSWITCHED, UNDIMMED, HOT CONDUCTOR AND BE IN COMPLIANCE WITH CEC ARTICLE 700
- SHALL BE INSPECTED AND TESTED AS DESCRIBED IN THE 2016 CEC SECTION 604.6 AND 604.7.
- THE BRANCH CIRCUIT FEEDING EMERGENCY EQUIPMENT (EMERGENCY LIGHT WITH SELF-CONTAINED RECHARGEABLE BATTERY) SHALL BE THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THAT AREA.
- LIGHTING SYSTEMS WITH SELF-CONTAINED RECHARGEABLE BATTERY SHALL MEET CEC TITLE 20 REQUIREMENTS.

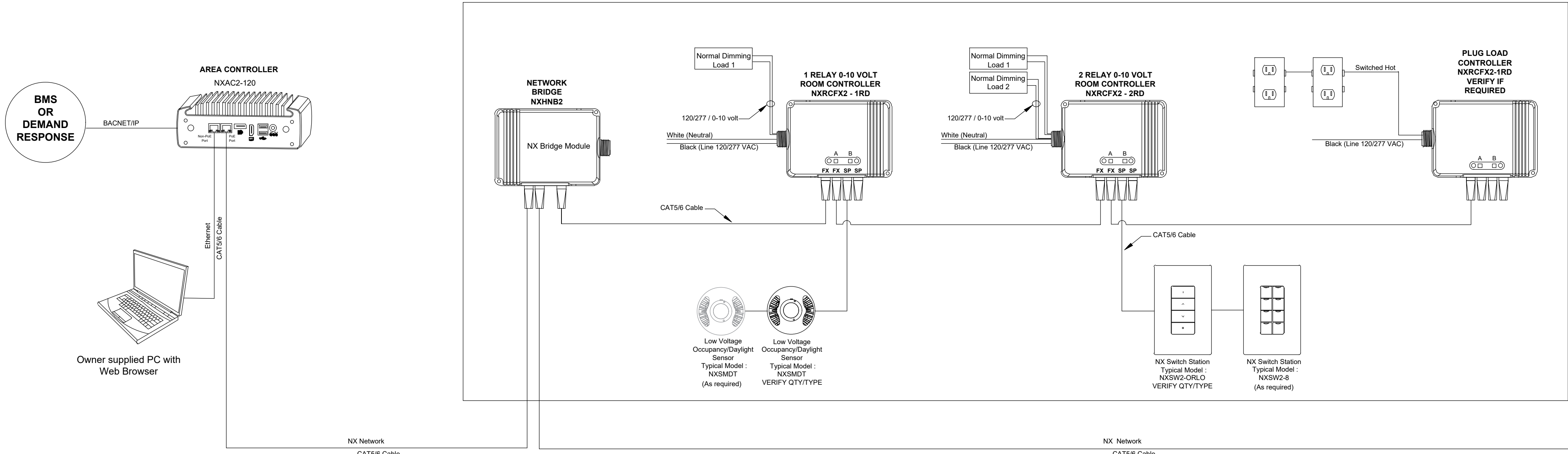
SUBSTITUTION NOTES:

- ALL SUBSTITUTIONS MUST BE APPROVED BY THE ARCHITECT AND ELECTRICAL ENGINEER, PRIOR TO SUBSTITUTIONS, THE FOLLOWING MUST BE PROVIDED (15) DAYS PRIOR TO BID TIME:
 - COMPLETE AND OPERABLE SAMPLES OF SUBSTITUTIONS CONTAINING 120V CORD AND PLUG CONNECTIONS, ALONG WITH CURRENT MANUFACTURE'S DATA SHEETS.
 - PHOTOMETRIC STUDIES UTILIZING IES STANDARD PHOTOMETRIC DATA AND SOFTWARE FOR THIS PROJECT USING PROPOSED SUBSTITUTIONS FIXTURES TO ENSURE DESIGN INTENT IS MET. LUMEN OUTPUT AND LIGHT LOSS FACTOR VALUES TO BE DICTATED BY EECOR FOR THIS STUDY.
 - WHEN APPLICABLE, PHOTOMETRIC STUDIES OF EMERGENCY LIGHTING APPLICATIONS FOR ALL REQUIRED AREAS IN THIS PROJECT UTILIZING PROPOSED SUBSTITUTIONS. BATTERY LUMEN OUTPUT VALUES TO BE BASED ON EMERGENCY LIGHTING NOTES CONTAINED HERE WITHIN.

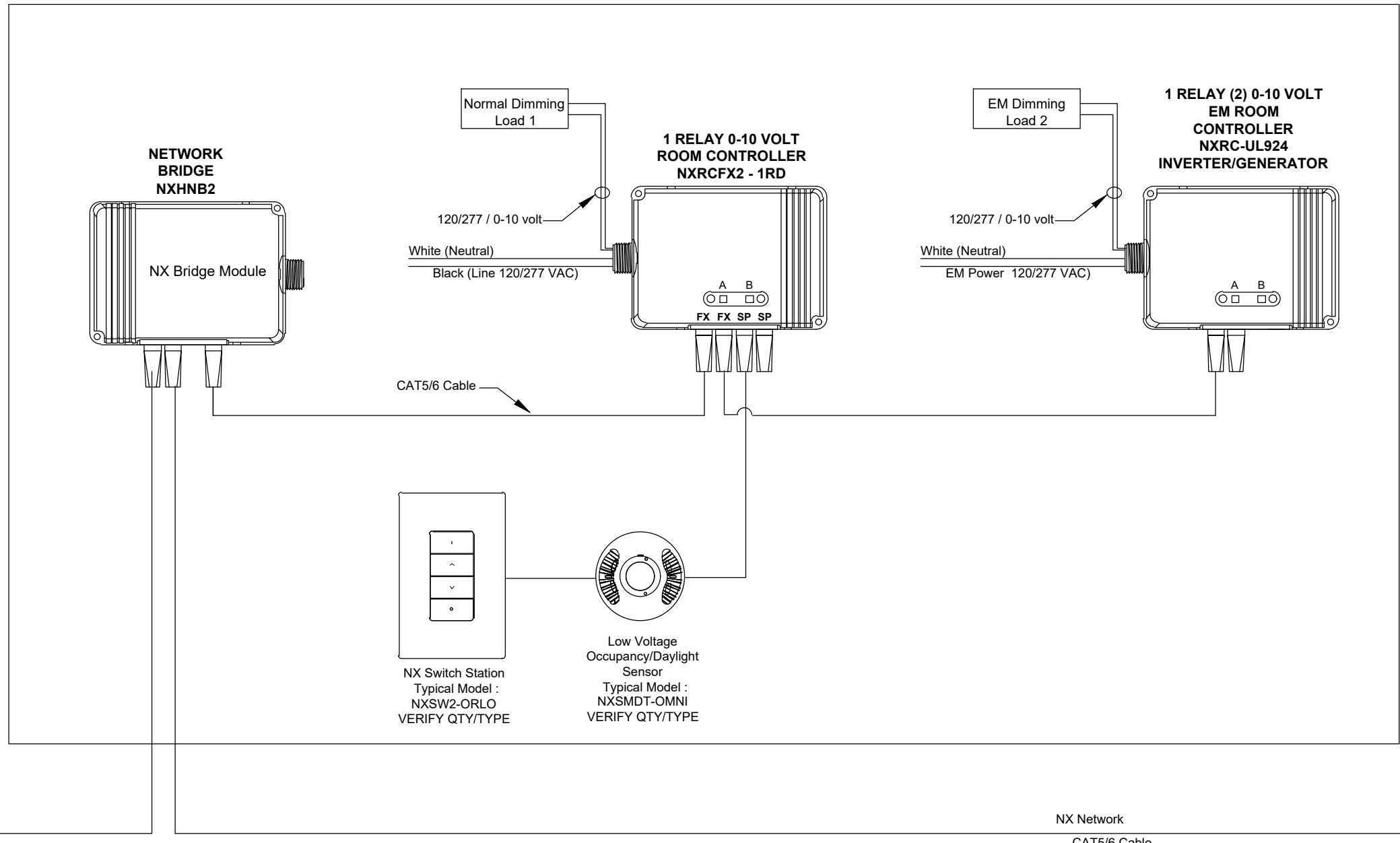
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NX CONTROLS LIGHTING CONTROL DIAGRAM (NETWORKED)

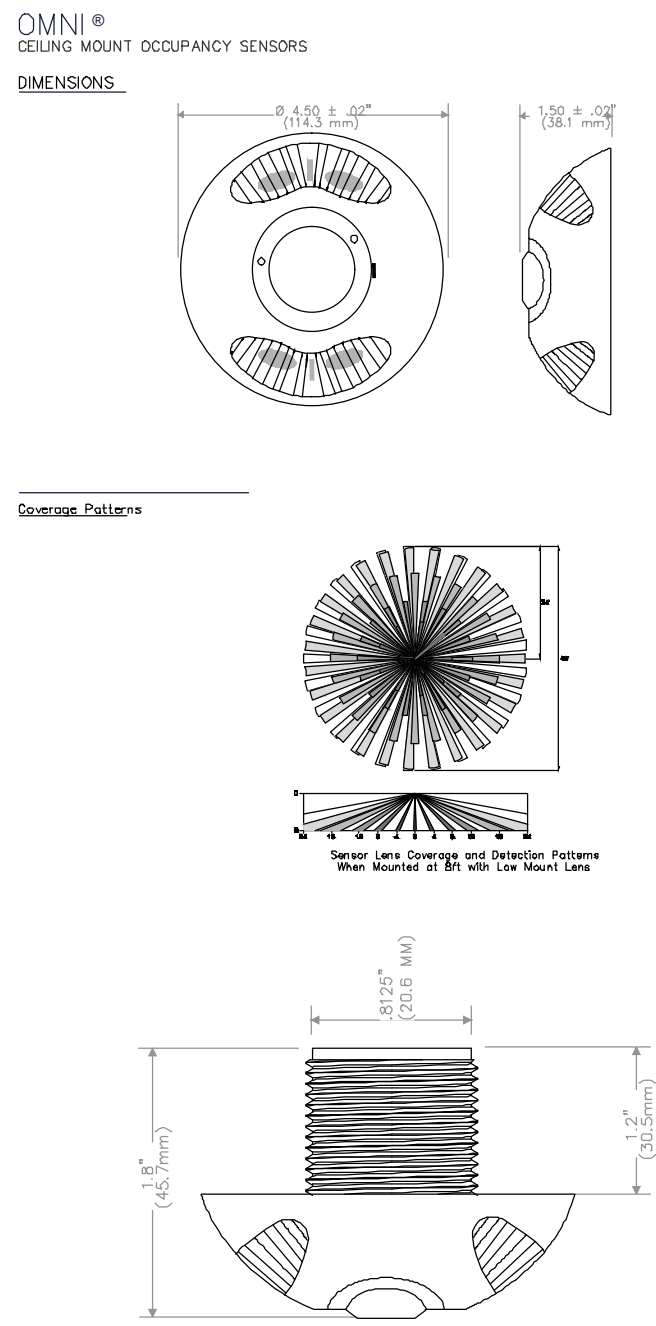
TYPICAL OFFICE, CONFERENCE ROOM, KITCHEN, LOBBY & COPY ROOM



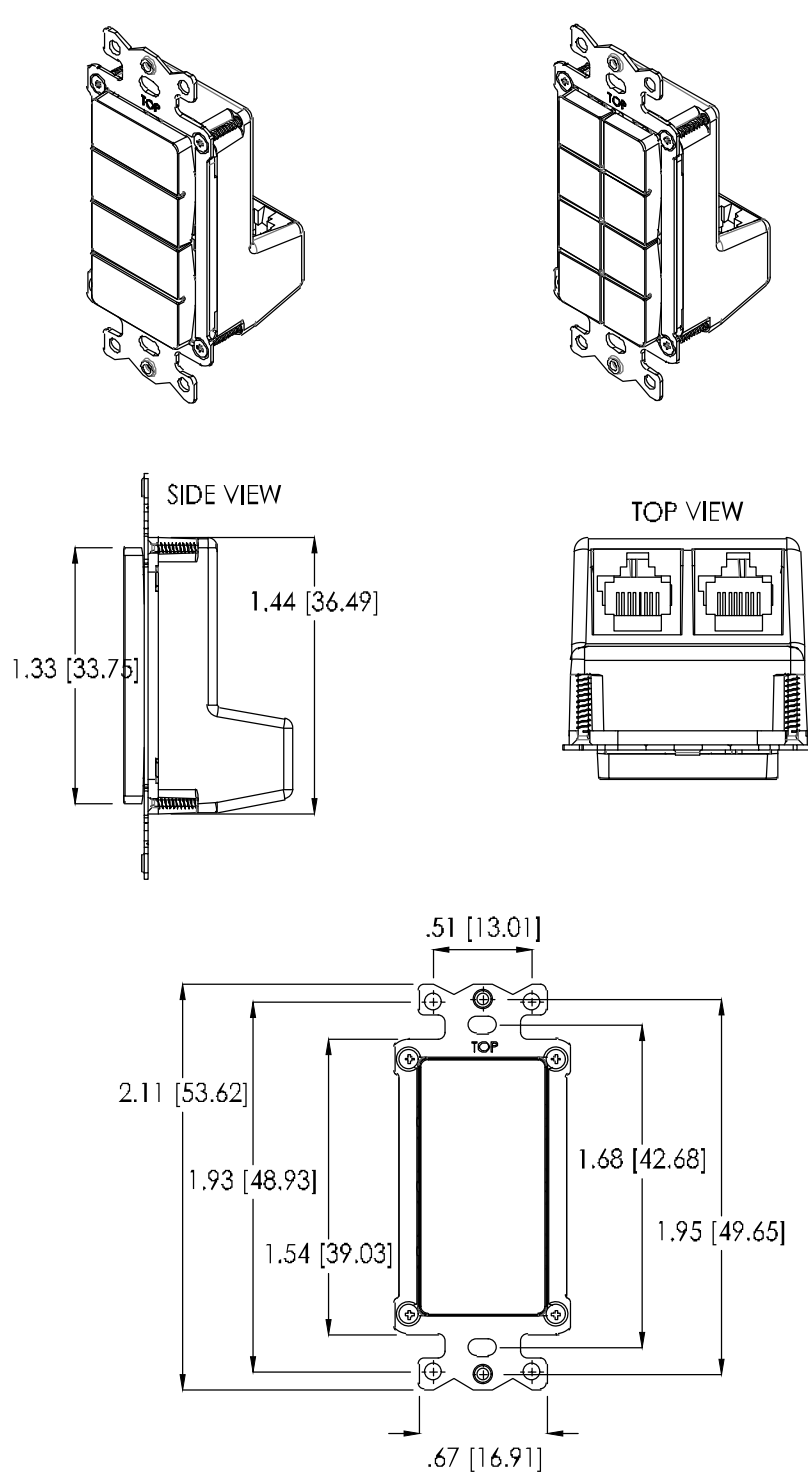
RESTROOM, CORRIDORS, STAIRWELL



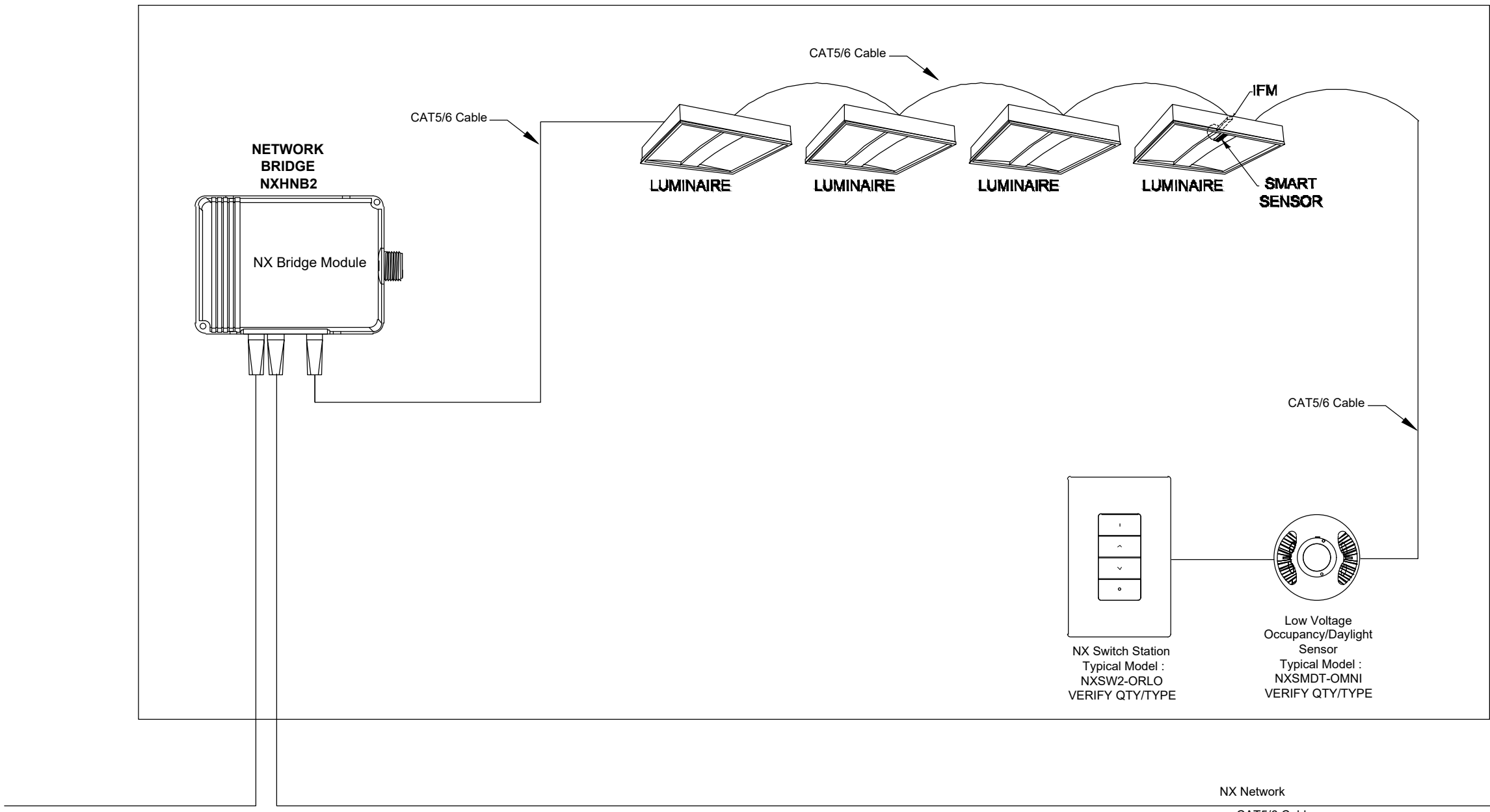
CEILING OCC & DAYLIGHT SENSOR
MODEL#NXSMDT



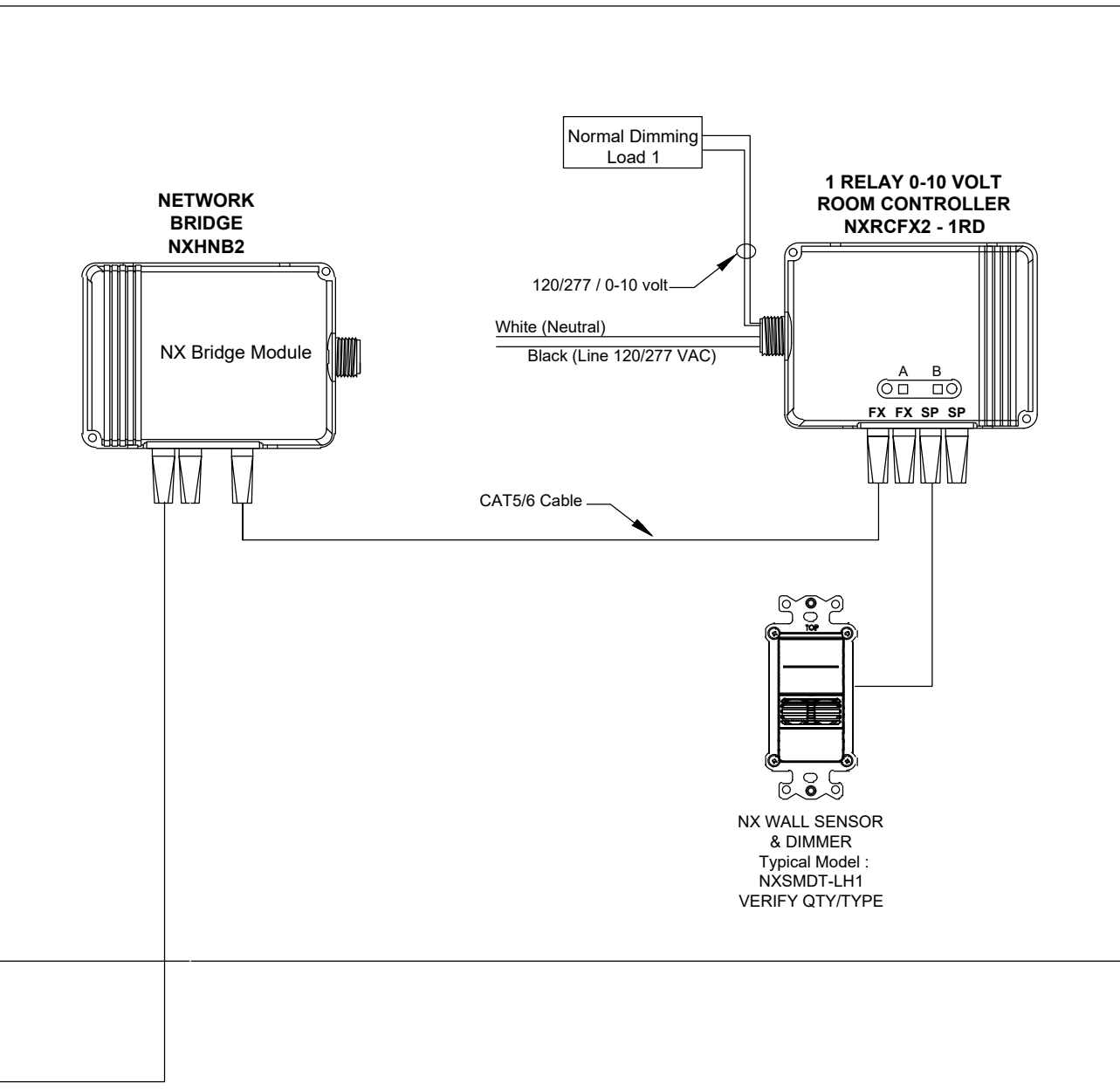
SWITCHES
MODEL#NXSM2 SERIES



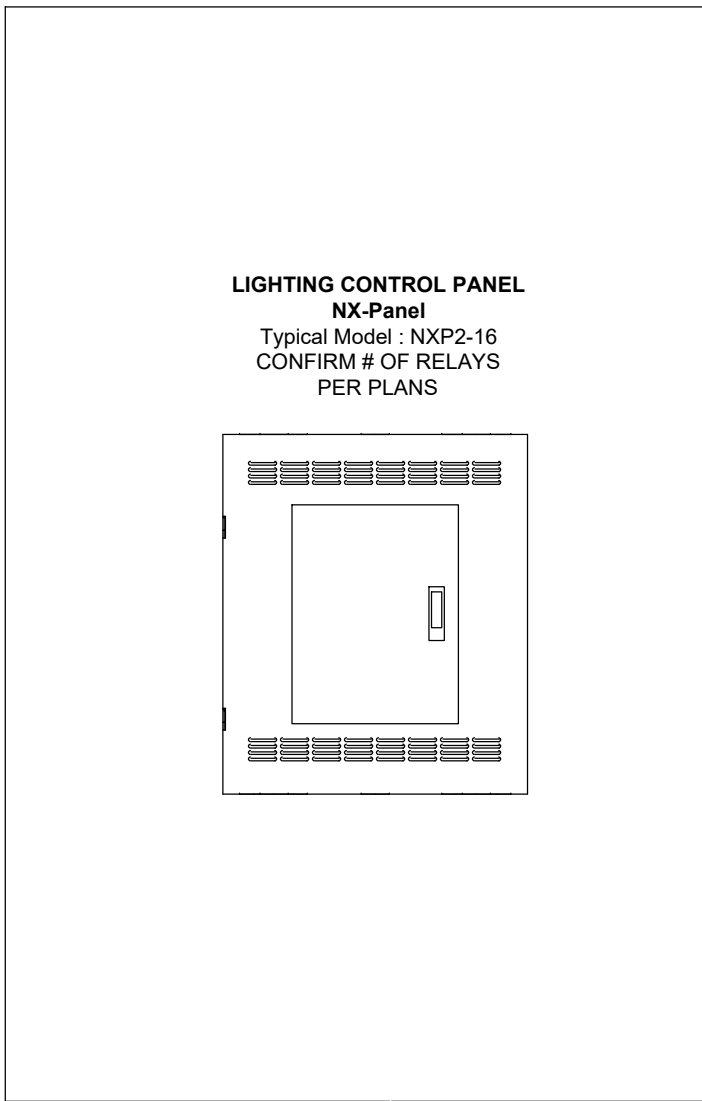
TYPICAL ROOM WITH NX ENABLED FIXTURES



TYPICAL SMALLER ROOMS/PRIVATE RESTROOMS

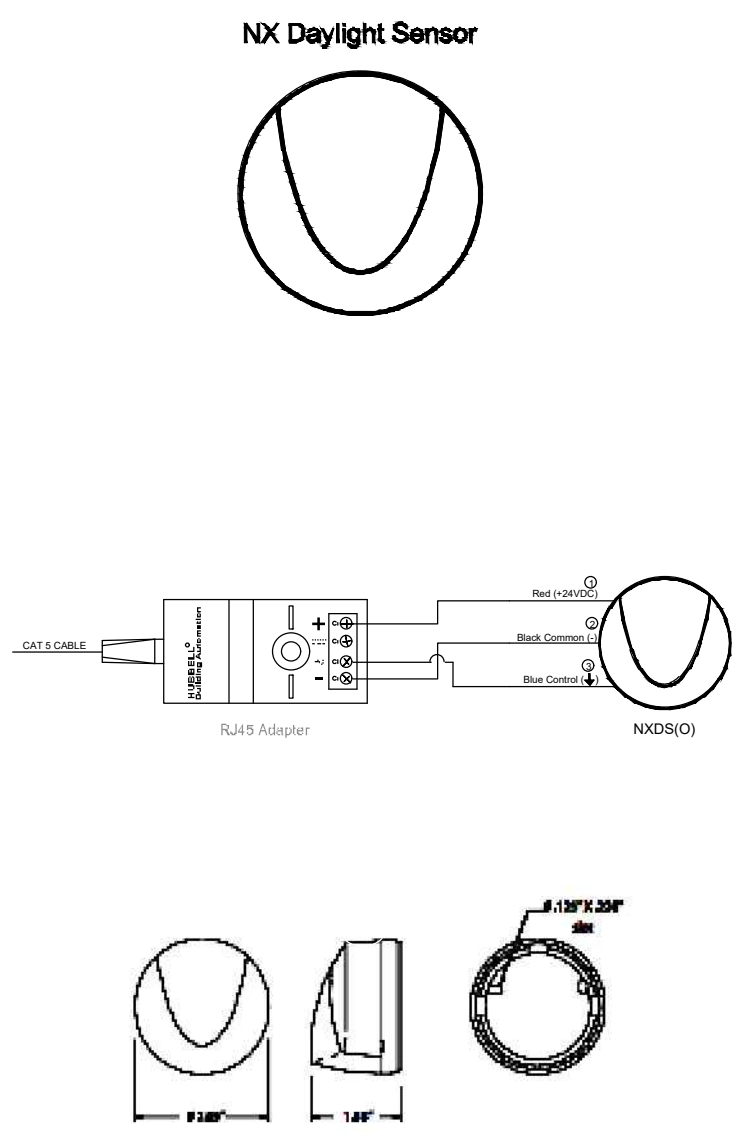


LCP FOR EXTERIOR LOADS

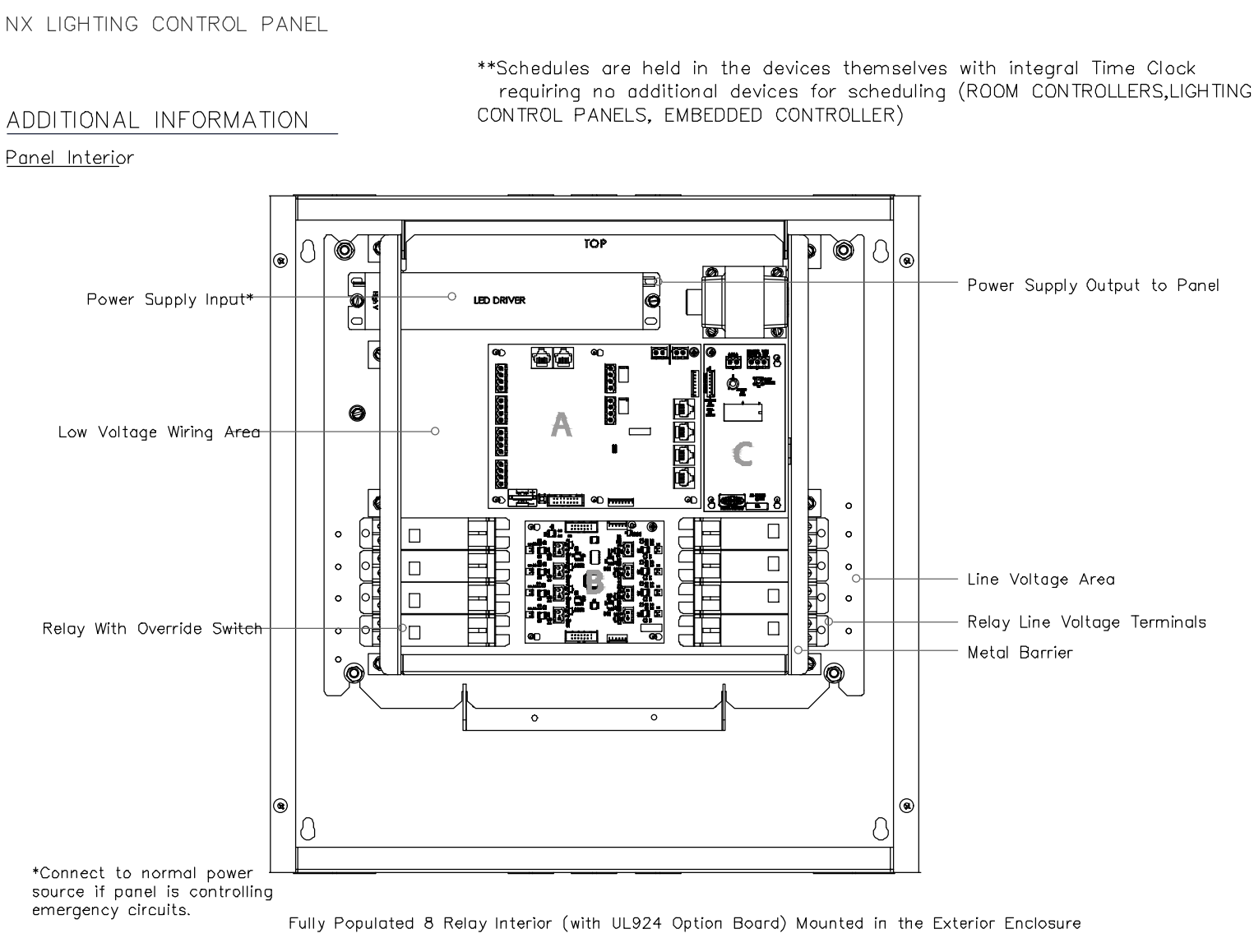


Details

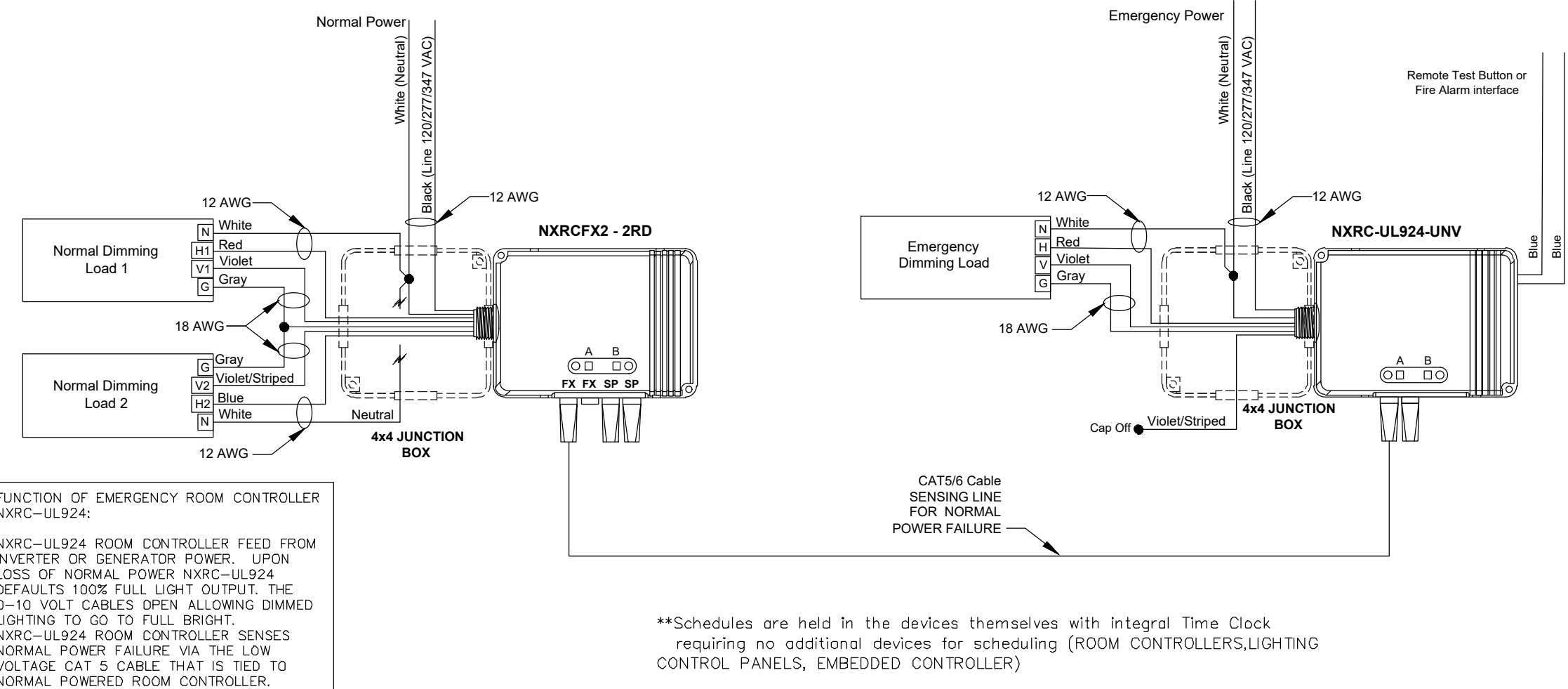
DAYLIGHT SENSOR
MODEL#NXDS SERIES



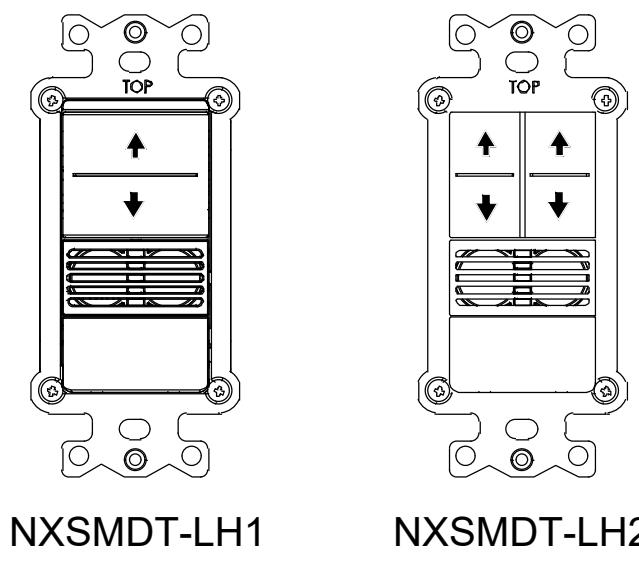
LIGHTING CONTROL PANEL
MODEL#NXP2 SERIES-
8,16,24,32,48 RELAY PANEL OPTIONS



EMERGENCY ROOM CONTROLLER
MODEL#NXRC-UL924-UNV



DIGITAL WALL OCC SENSOR
MODEL
#NXSMDT-LH1 (1 LEG)
#NXSMDT-LH2 (2 LEGS)



Normal/Emergency dimming load on NX UL924 room controller

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NXP2 SERIES
LIGHTING CONTROL PANEL




Standards & Code

	Energy Codes				NX Panels
	IECC 2015	ASHRAE 90.1 2016	Title 24 Part 6 2016	NFPA	
Indoor					
High End Trim					✓
Local Control	C405.2.2.3	9.4.1.1 (a)	130.1 (a)		✓
Multi-Level Control	C405.2.2.2	9.4.1.1 (b)	130.1 (b)		✓
Scheduling	C405.2.2.1	9.4.1.1 (f)	130.1 (c) 4		✓
Occupancy Sensor Full OFF	C405.2.1.1	9.4.1.1 (h)	130.1 (c) 6		✓
Occupancy Sensor Partial ON	C405.2.1.1	9.4.1.1 (c)	130.1 (c) 5		✓
Occupancy Sensor Partial OFF	C405.2.1.2	9.4.1.1 (g)	130.1 (c) 6		✓
Continuous Daylighting	C405.2.3	9.4.1.1 (e)	130.1 (d)		✓
Plug Load Control		8.4.2	130.5 (d)		✗
BMS Integration					Contact Closure
Egress Lighting				✓	Contact Closure
Outdoor					
Astronomical Time Clock	C405.2.5(2)	9.4.1.4 (b)	C405.2.2.3		✓
Setback	C405.2.5(3)	9.4.1.4 (d)	C405.2.2.3		✓
Daylight OFF	C405.2.5(1)	9.4.1.4 (a)	C405.2.2.3		✓
BMS Integration					Contact Closure



Meet Code and Save Energy


NX Panels can maximize energy savings and meet or exceed today's energy code requirements.




High End Trim - An artificial maximum light output set below actual maximum light output for each space



Local Control - Manual lighting controls that control all the lights in that space and requires human intervention



Multi-Level Control - Providing additional light levels in a space beyond Full ON and Full OFF



Plug Load Control - Automatically turns off designated receptacles in response to all occupants leaving the space or time of day



Scheduling - Controls light levels based on facility schedule




Astronomical Time Clock - Controls light levels based on sunrise/sunset and project location



Occupancy Sensor Full OFF - Automatically turns the lights off within a set period of time after all occupants leave the space



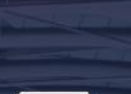
Occupancy Sensor Partial ON - Automatically turns lights on to a reduced level between full on and full off when occupants enter the space




Occupancy Sensor Partial OFF - Automatically turns lights down to a reduced level between full on and full off after all occupants leave the space




Continuous Daylighting - Automatically turns lights down to a reduced level or on based on the amount of daylight present in a space




Daylight OFF - Automatically turns the lights off based on the amount of daylight



BMS Integration - Integrated low voltage inputs and dry contact outputs provide an interface for BMS systems to control lighting and other building systems based on schedule or input control



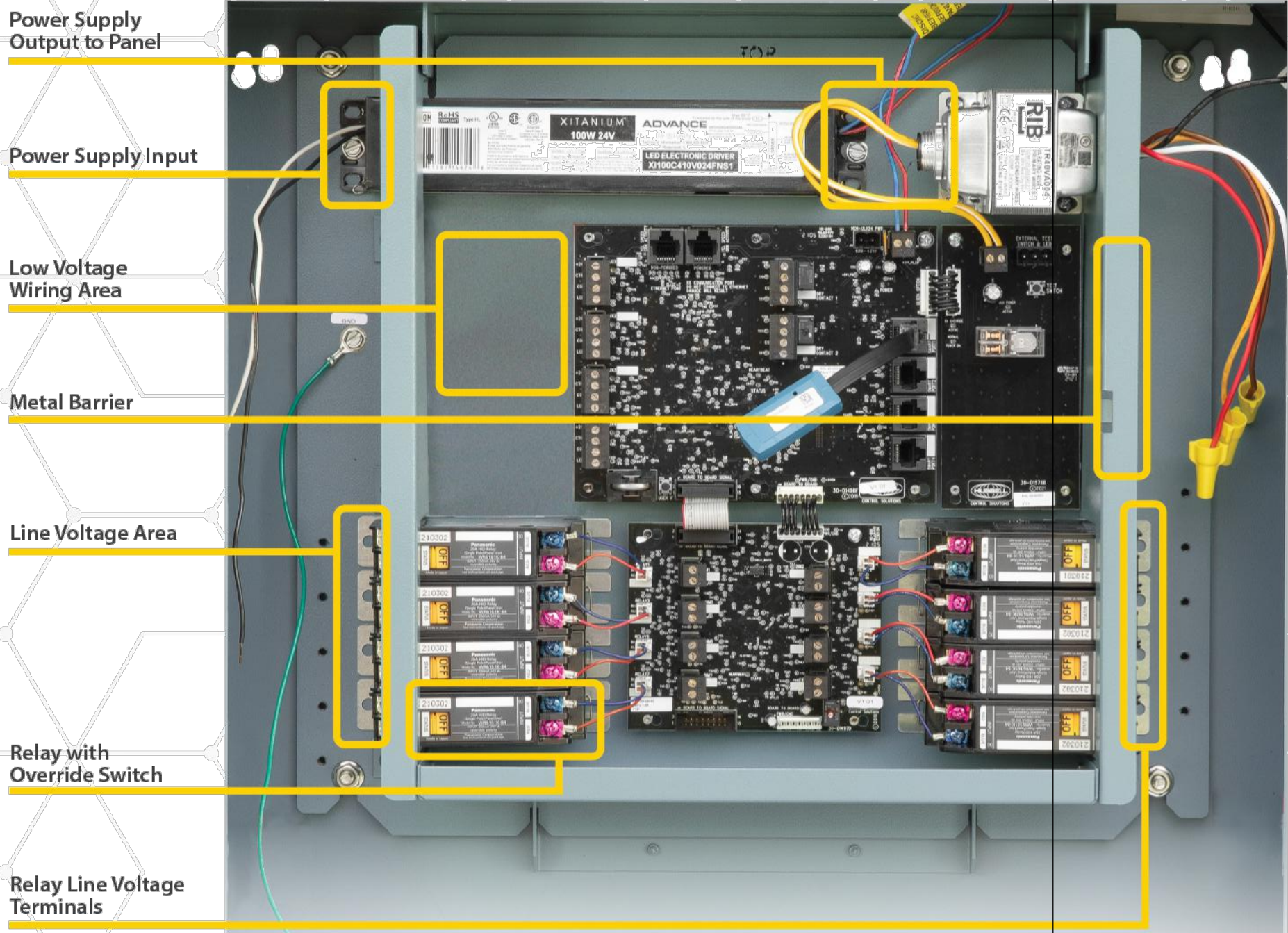
Egress Lighting - The code establishes minimum criteria for the design of egress facilities so as to allow prompt escape of occupants from buildings, or where desirable, into safe areas within buildings



Setback - Automatically turns lights down to a reduced level after all occupants leave the area

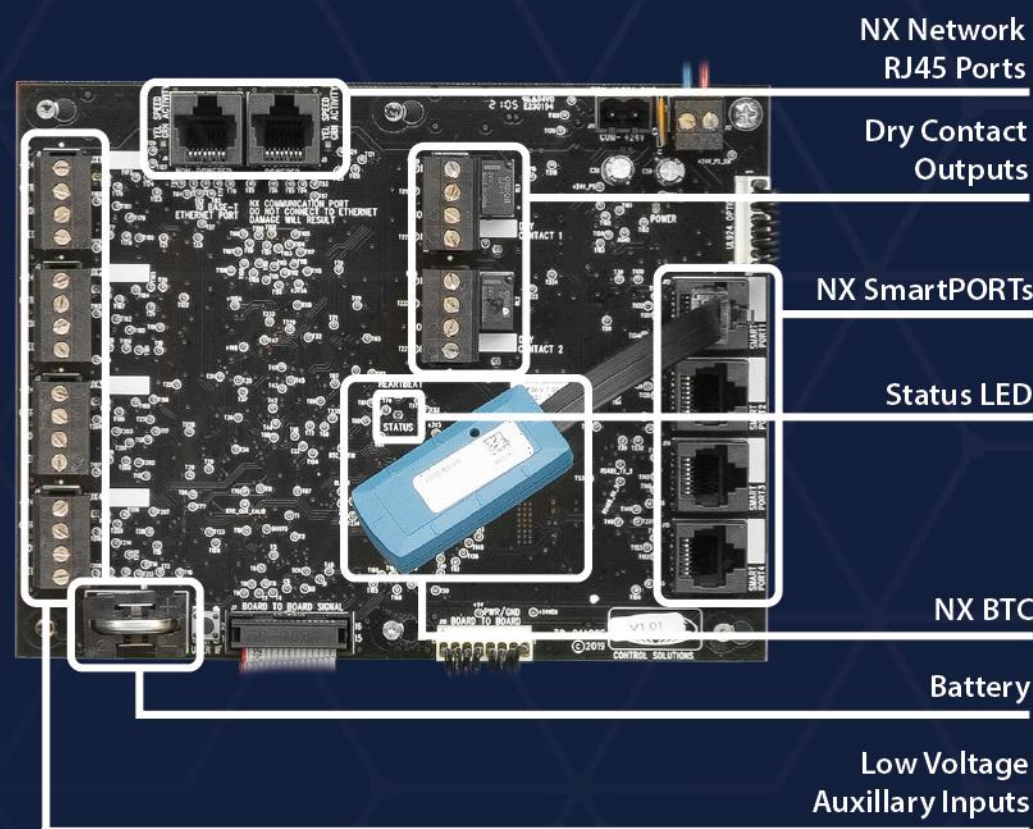
NX Panel Features

All inputs are low voltage and hard-wired to terminal blocks in the panel. Input power supply is multi-tapped or universal for typical service voltages. Line voltage terminals are located with generous space for easy connection.



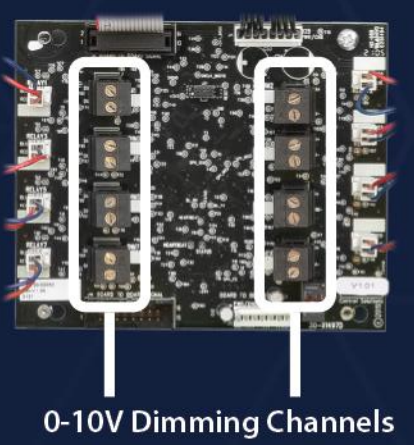
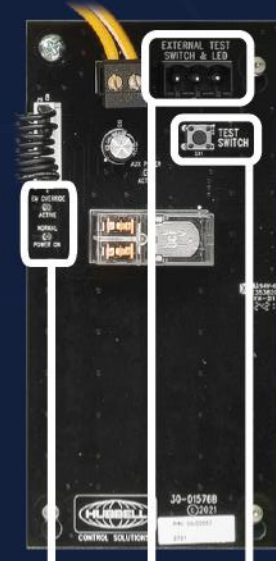
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Controller Board



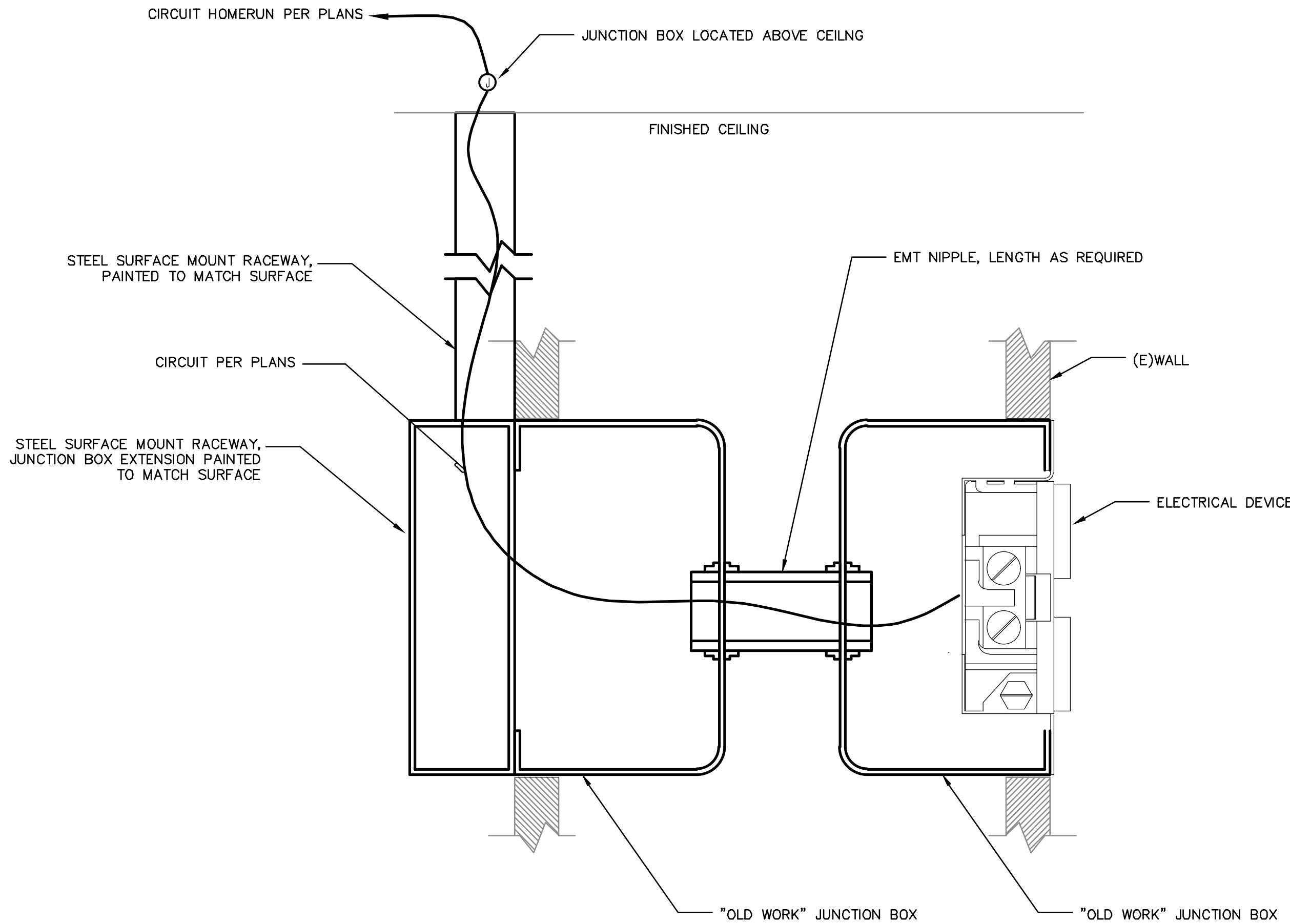
UL924 Board

Relay/Dimmer Board



11

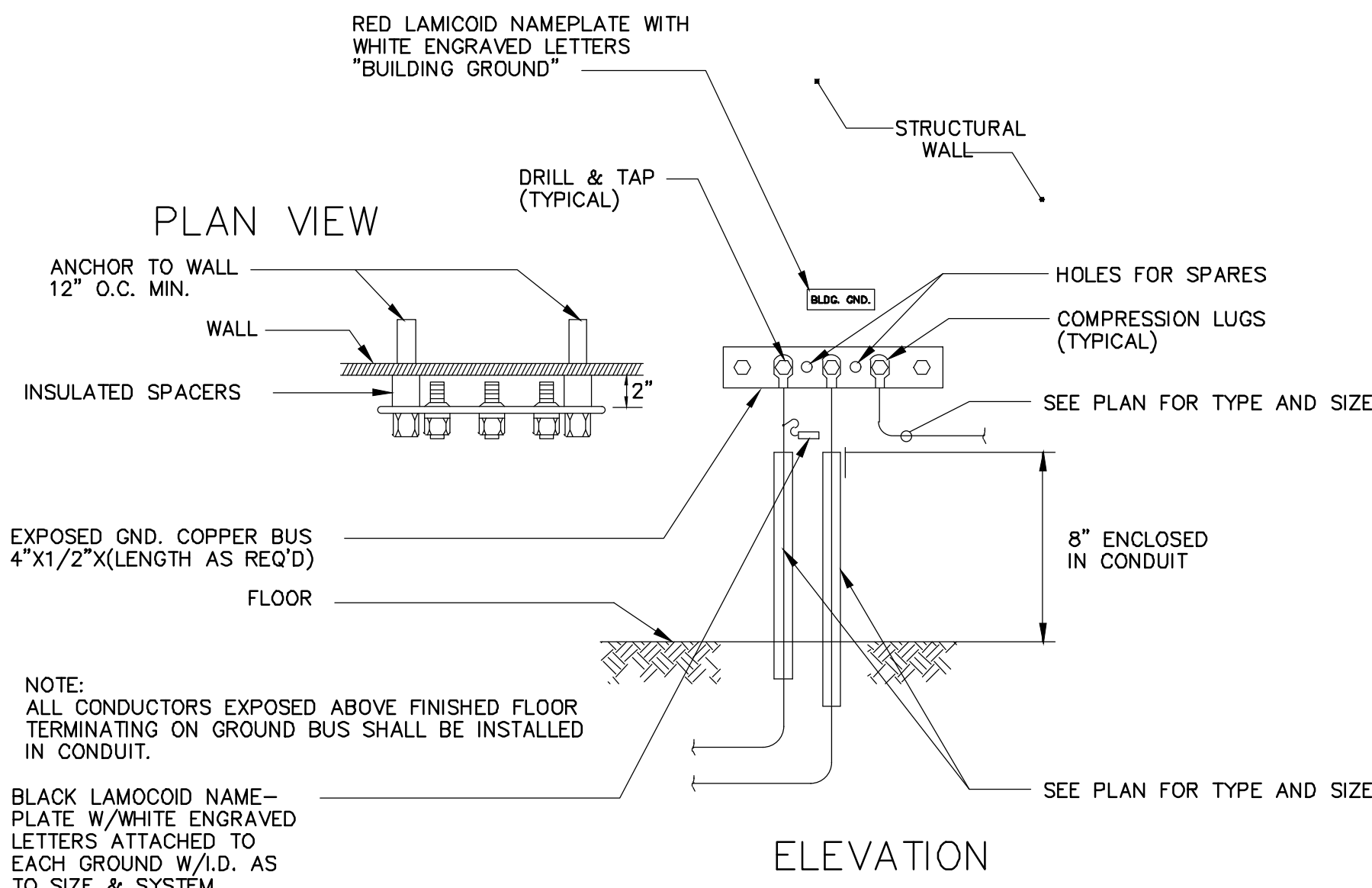
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Last plotted by chris.roberts Layout1
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NEW OUTLET AT EXISTING WALL

SCALE
N.T.S.

4



GROUNDING BUS BAR DETAIL

SCALE
N.T.S.

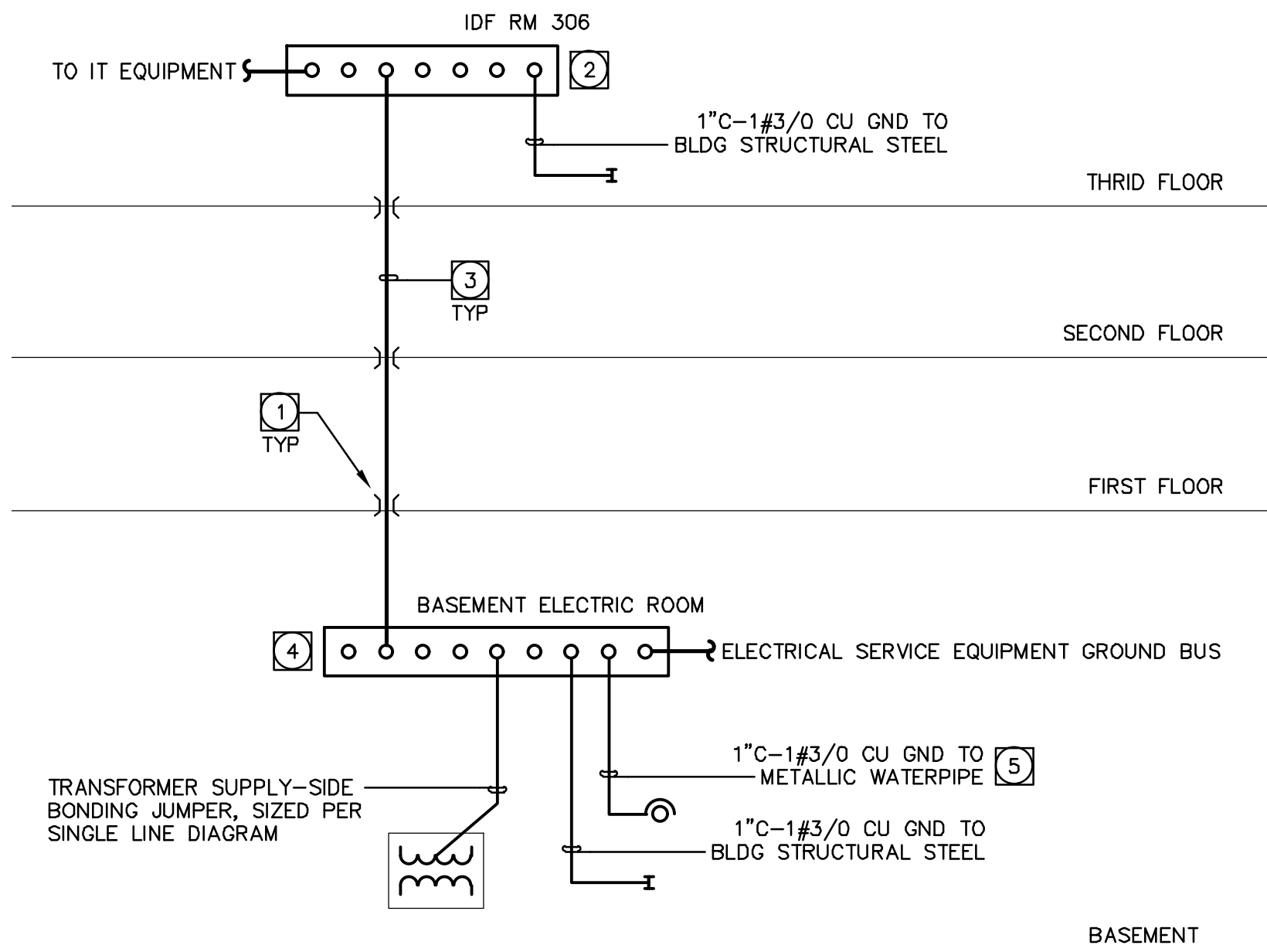
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NOTES:

- 1 PROVIDE APPROPRIATE SIZED SLEEVING FOR ALL CONDUITS PASSING THROUGH WALLS OR FLOOR, INCLUDING FIRESTOP AND SEALING OF ALL PENETRATIONS TO A RATING EQUIVALENT TO THE RATING OF THE WALL OR FLOOR WHICH IS BEING PENETRATED. PROVIDE FIRESTOP LABELING FOR ALL PENETRATIONS.
- 2 2-1/2" X 18" X 1/4" COPPER GROUND BAR, MOUNTED ON STAND-OFF INSULATORS
- 3 1#3/0 CU GND.
- 4 1/4" X 2 X LENGTH AS REQUIRED, COPPER GROUND BUS IN BASEMENT ELECTRICAL ROOM, DRILLED AND TAPPED AS REQUIRED. REFER TO SHEET E200 FOR LOCATION.
- 5 CONNECTION TO METAL UNDERGROUND PIPE SHALL BE MADE WITHIN 5FT FROM THE POINT OF ENTRANCE TO THE BUILDING PER NEC REQUIREMENTS.

GENERAL NOTES:

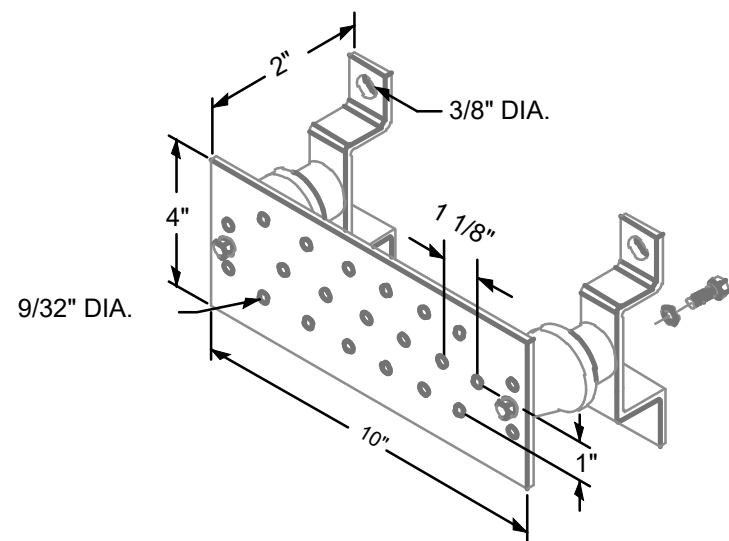
1. THE GROUNDING ELECTRODE CONDUCTOR SHALL BE INSTALLED IN ONE CONTINUOUS LENGTH WITHOUT A SPLICE OR JOINT, UNLESS SPLICED ONLY BY IRREVERSIBLE COMPRESSION-TYPE CONNECTORS LISTED FOR THE PURPOSE OR BY EXOTHERMIC WELDING PROCESS.



GROUNDING RISER DIAGRAM

SCALE
N.T.S.

2



TELECOMMUNICATIONS GROUNDING BUSBAR

SCALE
N.T.S.

3

REVISIONS

CONSTRUCTION DOCUMENTS

Salas O'Brien
salasobrien.com
Irvine
8825 Research Drive
Irvine, CA 92618
Phone: 949.255.0000



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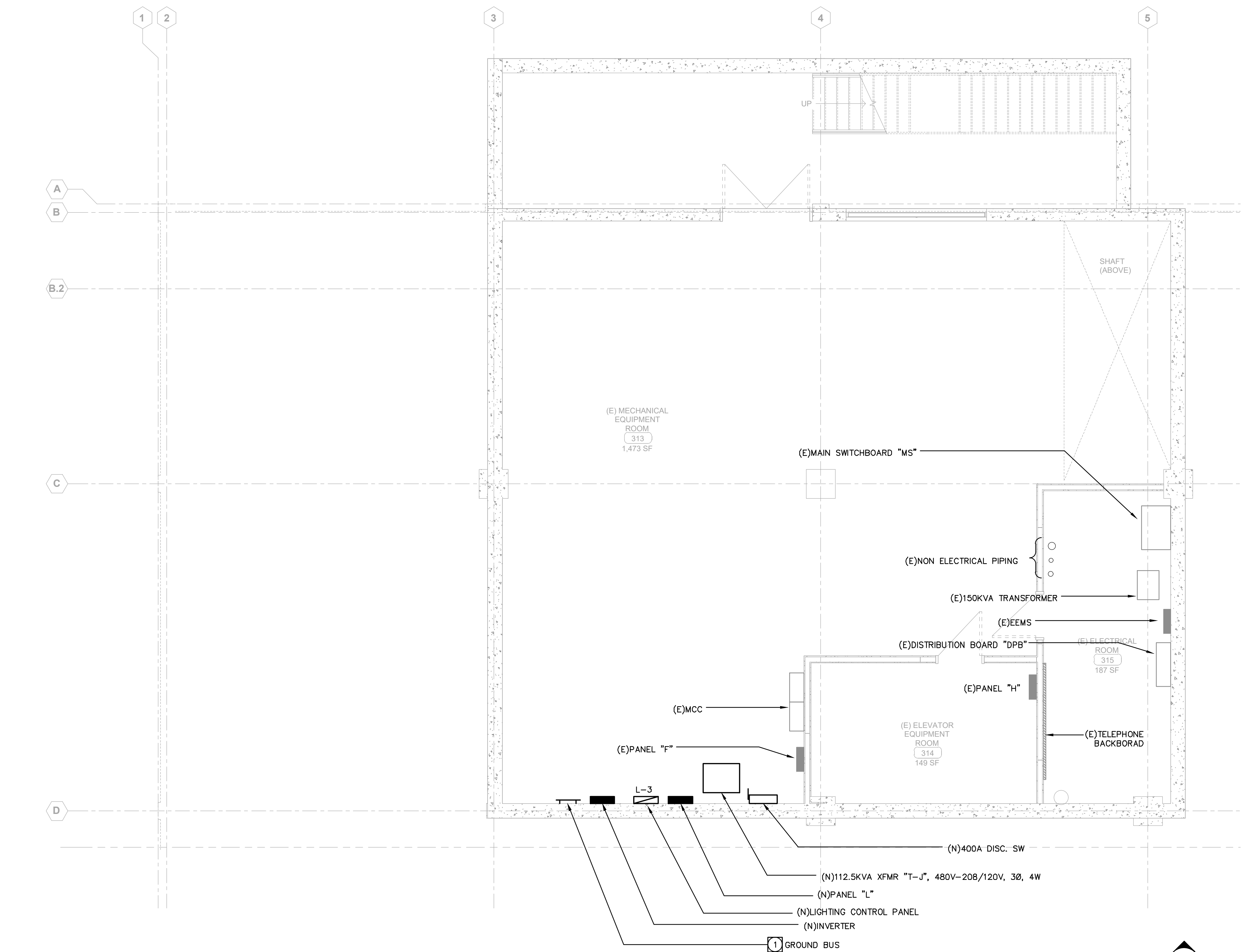
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DATE 07/15/2025

ELECTRICAL DETAILS

E0.91

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Last plotted by chris.roberts Layout1



1 BASEMENT ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

KEY NOTES

- 1 PROVIDE NEW GROUND BUS. CONNECT TO BUILDING STEEL, AND COLD WATER PIPE. REFER TO DETAIL #1 AND #2, SHEET E0.91 FOR ADDITIONAL DETAILS.

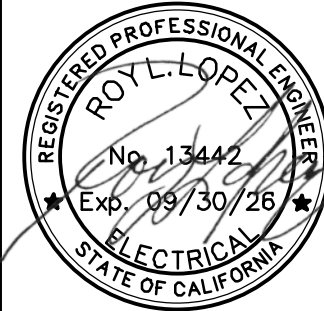
GENERAL NOTES

- THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS.
- THE EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT SITE PRIOR TO SUBMITTING BID. ALL DEMOLITION, ALTERATION, EXTENSION, RELOCATION, REHABILITATION WORK SHALL BE INCLUDED IN CONTRACT. NO ADDITIONAL ALLOWANCE OR CHANGE ORDERS WILL BE ACCEPTED.
- CONTRACTOR IS RESPONSIBLE TO RELOCATE OR REMOVE FROM WALLS, CEILINGS, FLOOR SPACES, ETC. ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFERES WITH PLANNED REMODEL WORK. PROVIDE CIRCUIT CONTINUATION REQUIRED FOR ALL EXISTING OUTLETS, FIXTURES, EQUIPMENT, ETC. SCHEDULED TO REMAIN.
- NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE WALLS.
- CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
- EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.
- DEMOLITION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT SITE, AND NOT INTERFERE WITH ITS OPERATION. ANY DEMOLITION WORK TO BE PERFORMED MUST BE PLANNED IN ADVANCE.
- DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OF DEVICES.
- RESEAL ALL PENETRATIONS OR OPENING THROUGH WALLS, CEILING, FLOORS, ETC., TO MAINTAIN THE RATING OF STRUCTURE.
- ALL REMOVED MATERIALS AND EQUIPMENT WHICH IS SALVAGED MATERIALS SHALL REMAIN IN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGED. DISPOSE OF ALL HAZARDOUS MATERIAL PER GUIDELINE OF THE STATE OF CALIFORNIA, DEPARTMENT OF HEALTH SERVICES AND OTHER AGENCIES HAVING JURISDICTION.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT/WIRING RUNS, REUSE AS REQUIRE AND REMOVED ALL UNUSED CONDUIT/WIRING. UNUSED CONDUIT IN INACCESSIBLE LOCATIONS (WALLS TO REMAIN) CAN BE ABANDONED IN PLACE. REMOVE UNUSED WIRING.

REVISIONS

CONSTRUCTION DOCUMENTS

Salas O'Brien
salasobrien.com
Irvine
8825 Research Drive
Irvine, CA 92618
Phone: 949.255.0600



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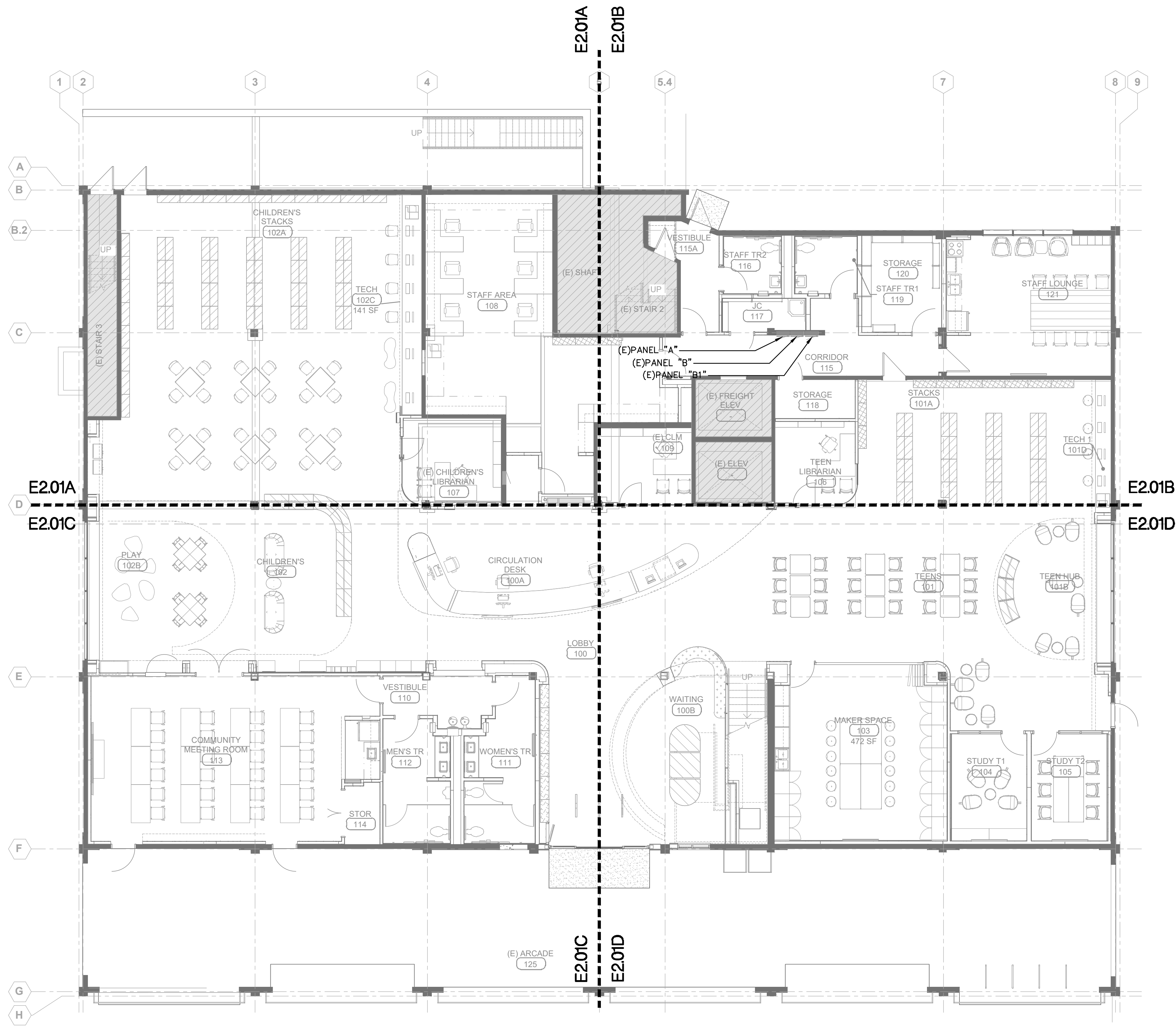
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CHECKED: Checker
DATE: 07/15/2025

BASEMENT
ELECTRICAL PLAN

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1 FIRST FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



KEY NOTES

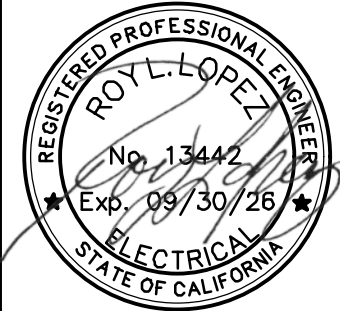
1 NOT USED.

GENERAL NOTES

1. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS.
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8. DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OR DEVICES.
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OVERALL FIRST
FLOOR ELECTRICAL
PLAN

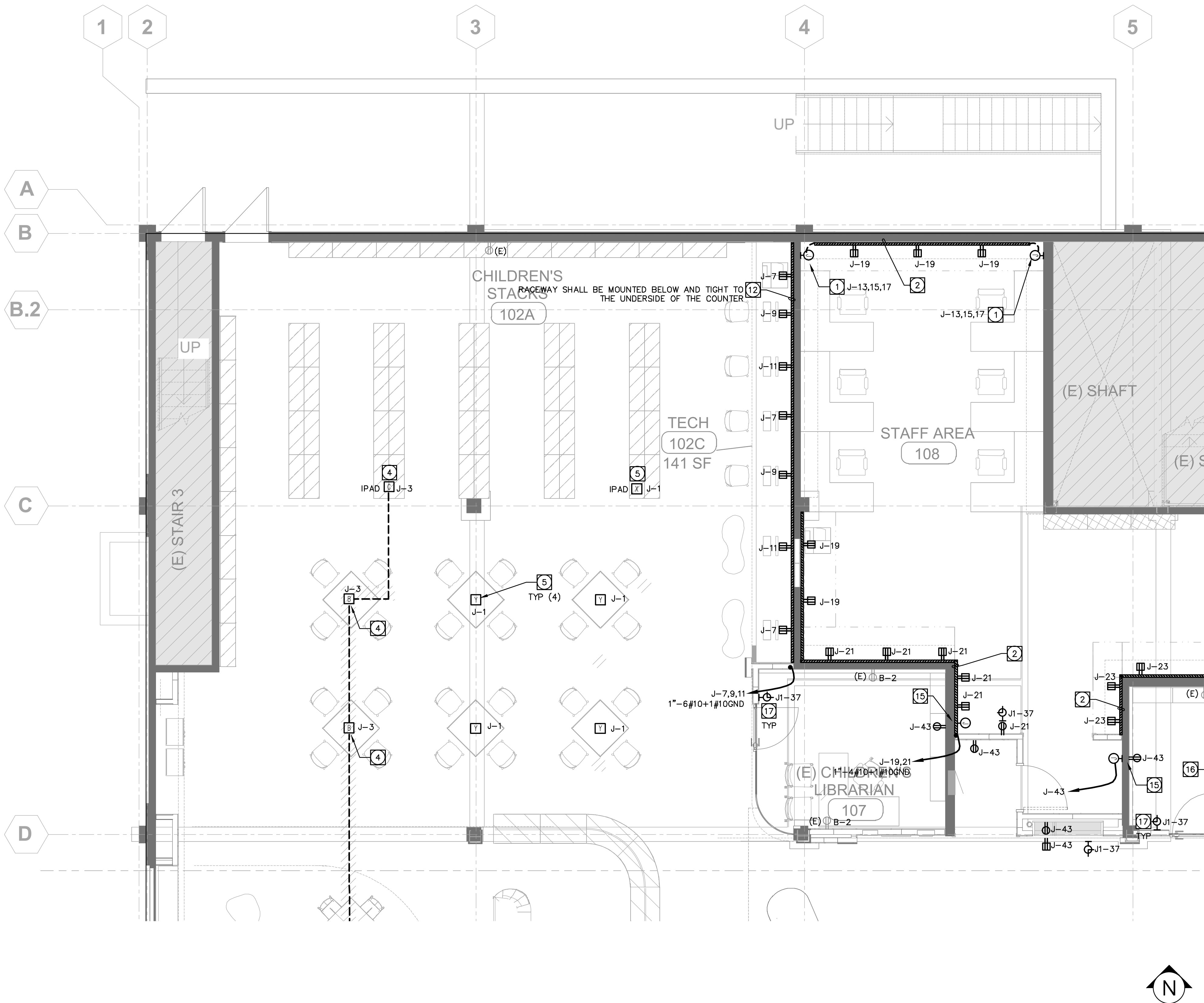
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




"AT GRADE" FLOOR BOX SCHEDULE				
SYMBOL	MODEL	DESCRIPTION	MODEL #	
	RFBA SERIES 4--GANG W/	DUPLEX OUTLET	#RFBA4R300G--RFBADP20TR	①
	RFBA SERIES 4--GANG W/	QUAD OUTLET	#RFBA4R300G--(2) RFBADP20TR	①
	RFBA SERIES 6--GANG W/	DUPLEX OUTLET WITH LOW VOLTAGE COMPARTMENT	#RFBA4R300G--RFBADP20TR--RFBADP20TR	① ②
	RFBA SERIES 6--GANG W/	QUAD OUTLET WITH LOW VOLTAGE COMPARTMENT	#RFBA4R300G--(2) RFBADP20TR--RFBADP20TR	① ②
POKE-THRU FLOOR BOX SCHEDULE				
SYMBOL	MODEL	DESCRIPTION	MODEL #	
	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET	#4ATCP2RXX WITH #4B BLANK DEVICE PLATE	③
	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH QUAD OUTLET	#4ATCP4RXX	③
	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET AND LOW VOLTAGE OUTLET	#4ATCP2RBK	③ ②
	EVOLUTION SERIES 6AT	6" FLOOR BOX WITH QUAD OUTLET AND LOW VOLTAGE OUTLET	#6ATCP2RXX	③ ②
	EVOLUTION SERIES 6AT	6" FURNITURE FEED WITH LOW VOLTAGE COMPARTMENT	#6ATCPFFXX	③ ②

FLOOR BOX SCHEDULE NOTES

- ① COORDINATE FLOOR BOX DEPTH PRIOR TO ORDERING.
- ② COORDINATE LOW VOLTAGE REQUIREMENTS WITH LOW VOLTAGE DRAWINGS.
- ③ ALL EVOLUTION SERIES POKE-THRU DEVICES SHALL BE "RECESSED" TYPE.
COORDINATE FLOOR BOX COVERS/FINISHES TO MATCH AS BEST AS POSSIBLE.

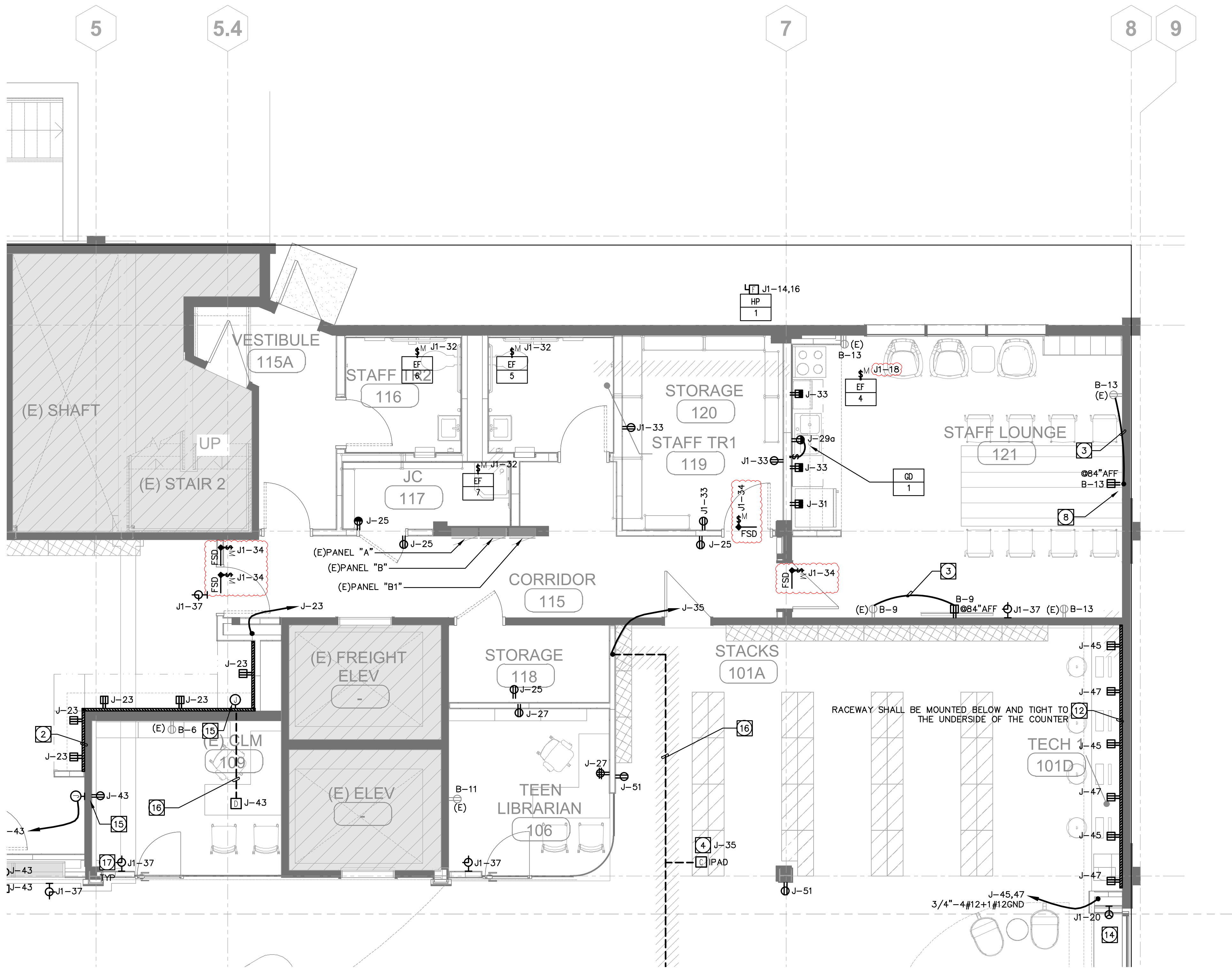


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Last plotted by chris.roberts Layout1

"AT GRADE" FLOOR BOX SCHEDULE				
SYMBOL	MODEL	DESCRIPTION	MODEL #	
	RFBA SERIES 4-GANG W/	DUPLEX OUTLET	#RFBA4R300G-RFBADP20TR	①
	RFBA SERIES 4-GANG W/	QUAD OUTLET	#RFBA4R300G-(2) RFBADP20TR	①
	RFBA SERIES 6-GANG W/	DUPLEX OUTLET WITH LOW VOLTAGE COMPARTMENT	#RFBA4R300G-RFBADP20TR-RFBADEC	① ②
	RFBA SERIES 6-GANG W/	QUAD OUTLET WITH LOW VOLTAGE COMPARTMENT	#RFBA4R300G-(2) RFBADP20TR-RFBADEC	① ②
POKE-THRU FLOOR BOX SCHEDULE				
SYMBOL	MODEL	DESCRIPTION	MODEL #	
	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET	#4ATCP2RXX WITH #4B BLANK DEVICE PLATE	③
	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH QUAD OUTLET	#4ATCP4RXX	③
	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET AND LOW VOLTAGE OUTLET	#4ATCP2RBK	③ ②
	EVOLUTION SERIES 6AT	6" FLOOR BOX WITH QUAD OUTLET AND LOW VOLTAGE OUTLET	#6ATCP2RXX	③ ②
	EVOLUTION SERIES 6AT	6" FURNITURE FEED WITH LOW VOLTAGE COMPARTMENT	#6ATCPFFXX	③ ②

FLOOR BOX SCHEDULE NOTES

- ① COORDINATE FLOOR BOX DEPTH PRIOR TO ORDERING.
- ② COORDINATE LOW VOLTAGE REQUIREMENTS WITH LOW VOLTAGE DRAWINGS.
- ③ ALL EVOLUTION SERIES POKE-THRU DEVICES SHALL BE "RECESSED" TYPE.
COORDINATE FLOOR BOX COVERS/FINISHES TO MATCH AS BEST AS POSSIBLE.



1 FIRST FLOOR ELECTRICAL PLAN - SEGMENT B
SCALE: 1/4" = 1'-0"

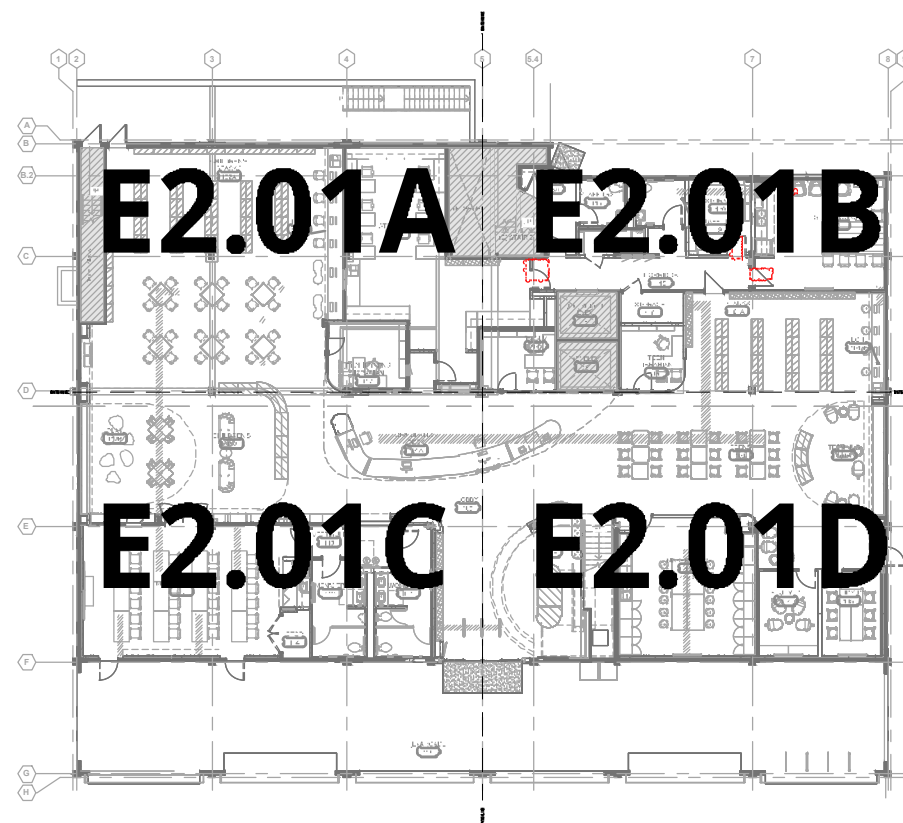
KEY NOTES

- KEYNOTES ARE TYPICAL FOR ALL ENLARGED POWER PLAN SHEETS. INDIVIDUAL KEYNOTES MAY NOT APPEAR ON EACH SHEET.
- ① PROVIDE A 4-CIRCUIT, 8-WIRE FEED TO SYSTEM FURNITURE PRE-WIRED WHIP.
 - ② PROVIDE WIREMOLD 5-4000 STAINLESS STEEL, TWO-PIECE DUAL SYSTEM RACEWAY WITH DIVIDER. PROVIDE NEMA 5-20R DEVICES AT 36" OVER COUNTER. COORDINATE WITH LOW VOLTAGE DRAWINGS FOR ADDITIONAL REQUIREMENTS.
 - ③ INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW OUTLET.
 - ④ PROVIDE FLOOR BOX, WIREMOLD RATCHET-PRO SERIES OR EQUAL WITH BRUSHED ALUMINUM COVER PLATE. REFER TO "POKE-THRU FLOOR BOX SCHEDULE" FOR DETAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER, ARCHITECT, AND FURNITURE LAYOUT. COORDINATE TRENCH ROUTING WITH ARCHITECT AND STRUCTURAL ENGINEER. CONTRACTOR TO SUBMIT SPECIFICS ON DEVICE QUANTITY AND COVER PLATES.
 - ⑤ PROVIDE EVOLUTION POKE-THRU FLOOR BOX OR EQUAL WITH BRUSHED ALUMINUM COVER PLATE. REFER TO "POKE-THRU FLOOR BOX SCHEDULE" FOR DETAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER, ARCHITECT, AND FURNITURE LAYOUT. CONTRACTOR TO SUBMIT SPECIFICS ON DEVICE QUANTITY AND COVER PLATES.
 - ⑥ PROVIDE OUTLET AT 54" AFF FOR DIGITAL DISPLAY. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
 - ⑦ PROVIDE POWER FOR UNDERSINK INSTA-HOT HOT WATER HEATER. REFER TO PLUMBING EQUIPMENT SCHEDULE ON SHEET E051 FOR ADDITIONAL INFORMATION INCLUDING LOCAL DISCONNECT REQUIREMENTS AND FEEDER SIZE.
 - ⑧ PROVIDE SURFACE MOUNT RACEWAY RISER ON EXISTING PLASTER WALL. RACEWAY SHALL BE PAINTED TO MATCH.
 - ⑨ PROVIDE POWER AT POWERED STOREFRONT DOOR.
 - ⑩ PROVIDE POWER FOR BOOK DETECTION GATES.
 - ⑪ PROVIDE POWER FOR CHILLED WATER FOUNTAIN/BOTTLE FILLER.
 - ⑫ PROVIDE WIREMOLD 5-4000 STAINLESS STEEL, TWO-PIECE DUAL SYSTEM RACEWAY WITH DIVIDER. PROVIDE 5-20R DEVICES UNDER COUNTER.
 - ⑬ PROVIDE POWER FOR ILLUMINATED DISPLAY CABINET. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
 - ⑭ PROVIDE CIRCUIT AS INDICATED FOR SEATING BENCH. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE NEMA 5-20L RECEPTACLE. COORDINATE OUTLET CONFIGURATION WITH SYSTEMS FURNITURE MANUFACTURER PRIOR TO ROUGH-IN.
 - ⑮ PROVIDE PENETRATION THROUGH EXISTING PLASTER WALL TO BACK OF HOUSE AREA FOR NEW OUTLET ON EXISTING PLASTER WALL. PROVIDE SURFACE MOUNT RACEWAY IN BACK OF HOUSE AREA. REFER TO DETAIL #4, SHEET E0.91.
 - ⑯ LOW VOLTAGE CONDUIT ALSO REQUIRED. COORDINATE WITH LOW VOLTAGE DRAWINGS FOR ADDITIONAL REQUIREMENTS.
 - ⑰ PROVIDE 120V POWER FOR SYNCHRONIZED CLOCK AT 8FT ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

GENERAL NOTES

1. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS.
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4. NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE WALLS.
5. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
6. EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.
7. DEMOLITION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT SITE, AND NOT INTERFERE WITH ITS OPERATION. ANY DEMOLITION WORK TO BE PERFORMED MUST BE PLANNED IN ADVANCE.
8. DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OF DEVICES.
9. RESEAL ALL PENETRATIONS OR OPENING THROUGH WALLS, CEILING, FLOORS, ETC., TO MAINTAIN THE RATING OF STRUCTURE.
10. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IS SALVAGED MATERIALS SHALL REMAIN IN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGED. DISPOSE OF ALL HAZARDOUS MATERIAL PER GUIDELINE OF THE STATE OF CALIFORNIA, DEPARTMENT OF HEALTH SERVICES AND OTHER AGENCIES HAVING JURISDICTION.
11. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT/WIRING RUNS, REUSE AS REQUIRE AND REMOVED ALL UNUSED CONDUIT/WIRING. UNUSED CONDUIT IN INACCESSIBLE LOCATIONS (WALLS TO REMAIN) CAN BE ABANDONED IN PLACE. REMOVE UNUSED WIRING.
12. REFER TO SHEET E051 FOR MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL CONNECTION SCHEDULE FOR FEEDER SIZE, DISCONNECT SIZE, AND ADDITIONAL INFORMATION.

KEYPLAN



REVISIONS

CONSTRUCTION DOCUMENTS



LOS ANGELES COUNTY PUBLIC WORKS HUNTINGTON PARK LIBRARY 6518 MILES AVE HUNTINGTON PARK, CA 90255

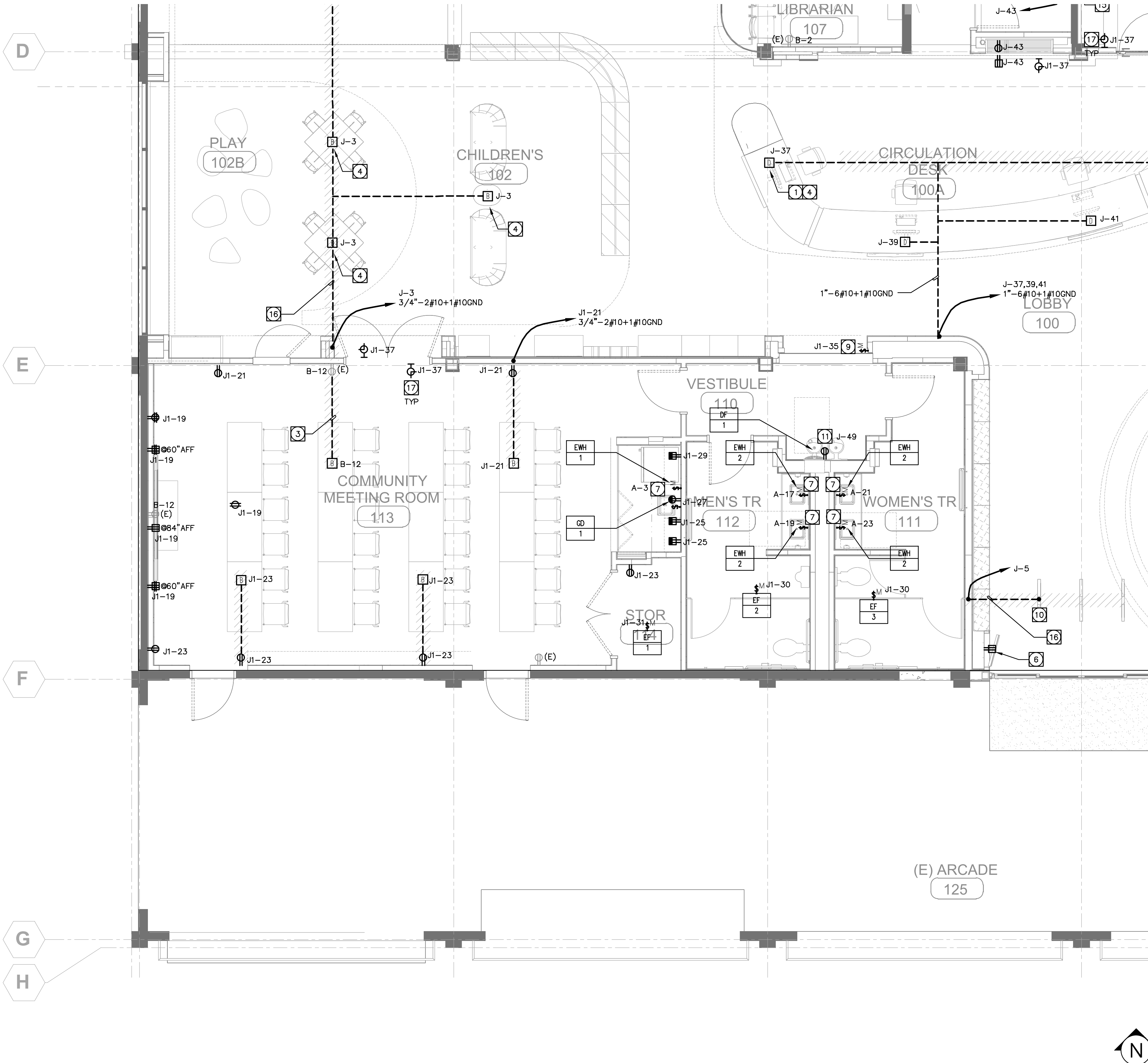


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DATE: 07/15/2025

FIRST FLOOR
ELECTRICAL PLAN
SEGMENT B

E2.01B

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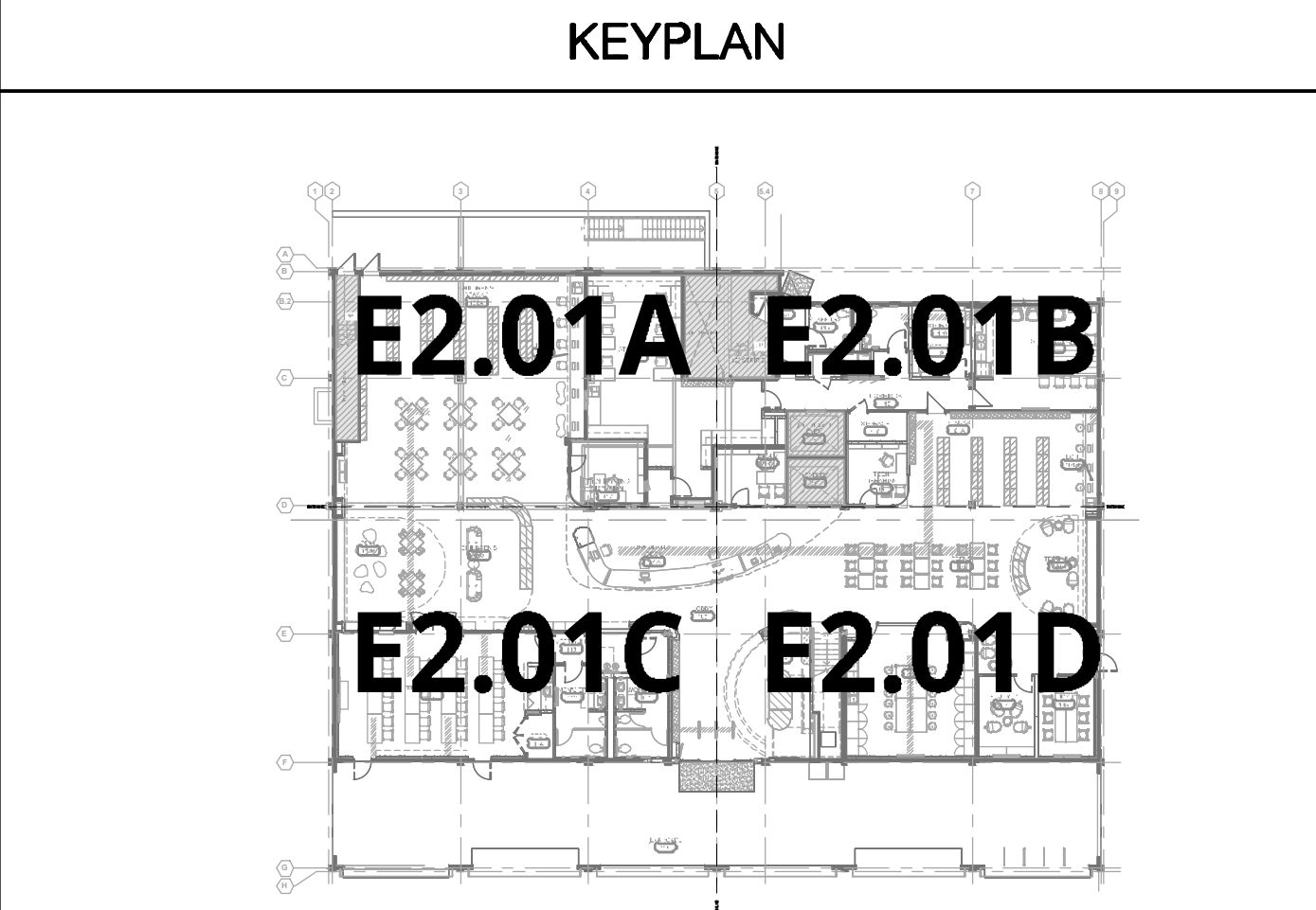
1 FIRST FLOOR ELECTRICAL PLAN - SEGMENT C
SCALE: 1/4" = 1'-0"

"AT GRADE" FLOOR BOX SCHEDULE			
SYMBOL	MODEL	DESCRIPTION	MODEL #
[1]	RFBA SERIES 4-GANG W/	DUPLEX OUTLET	#RFBA4R300G-RFBADP20TR
[2]	RFBA SERIES 4-GANG W/	QUAD OUTLET	#RFBA4R300G-(2) RFBADP20TR
[3]	RFBA SERIES 6-GANG W/	DUPLEX OUTLET WITH LOW VOLTAGE COMPARTMENT	#RFBA4R300G-RFBADP20TR-RFBADEC
[4]	RFBA SERIES 6-GANG W/	QUAD OUTLET WITH LOW VOLTAGE COMPARTMENT	#RFBA4R300G-(2) RFBADP20TR-RFBADEC
POKE-THRU FLOOR BOX SCHEDULE			
SYMBOL	MODEL	DESCRIPTION	MODEL #
[5]	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET	#4ATCP2RXX WITH #4B BLANK DEVICE PLATE
[6]	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH QUAD OUTLET	#4ATCP4RXX
[7]	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET AND LOW VOLTAGE OUTLET	#4ATCP2RBK
[8]	EVOLUTION SERIES 6AT	6" FLOOR BOX WITH QUAD OUTLET AND LOW VOLTAGE OUTLET	#6ATCP2RXX
[9]	EVOLUTION SERIES 6AT	6" FURNITURE FEED WITH LOW VOLTAGE COMPARTMENT	#6ATCPFFXX

- FLOOR BOX SCHEDULE NOTES
- COORDINATE FLOOR BOX DEPTH PRIOR TO ORDERING.
 - COORDINATE LOW VOLTAGE REQUIREMENTS WITH LOW VOLTAGE DRAWINGS.
 - ALL EVOLUTION SERIES POKE-THRU DEVICES SHALL BE "RECESSED" TYPE.
COORDINATE FLOOR BOX COVERS/FINISHES TO MATCH AS BEST AS POSSIBLE.

- KEY NOTES
- KEYNOTES ARE TYPICAL FOR ALL ENLARGED POWER PLAN SHEETS. INDIVIDUAL KEYNOTES MAY NOT APPEAR ON EACH SHEET.
- PROVIDE A 4-CIRCUIT, 8-WIRE FEED TO SYSTEM FURNITURE PRE-WIRED WHIP.
 - PROVIDE WIREMOLD S-4000 STAINLESS STEEL, TWO-PIECE DUAL SYSTEM RACEWAY WITH DIVIDER. PROVIDE NEMA 5-20R DEVICES AT 36" OVER COUNTER. COORDINATE WITH LOW VOLTAGE DRAWINGS FOR ADDITIONAL REQUIREMENTS.
 - INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW OUTLET.
 - PROVIDE FLOOR BOX, WIREMOLD RATCHET-PRO SERIES OR EQUAL WITH BRUSHED ALUMINUM COVER PLATE. REFER TO "AT GRADE FLOOR BOX SCHEDULE" FOR DETAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER, ARCHITECT, AND FURNITURE LAYOUT. COORDINATE TRENCH ROUTING WITH ARCHITECT AND STRUCTURAL ENGINEER. CONTRACTOR TO SUBMIT SPECIFICS ON DEVICE QUANTITY AND COVER PLATES.
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 - PROVIDE POWER FOR UNDERSINK INSTA-HOT HOT WATER HEATER. REFER TO PLUMBING EQUIPMENT SCHEDULE ON SHEET E051 FOR ADDITIONAL INFORMATION INCLUDING LOCAL DISCONNECT REQUIREMENTS AND FEEDER SIZE.
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KEYNOTES ARE TYPICAL FOR ALL ENLARGED POWER PLAN SHEETS. INDIVIDUAL KEYNOTES MAY NOT
APPEAR ON EACH SHEET.

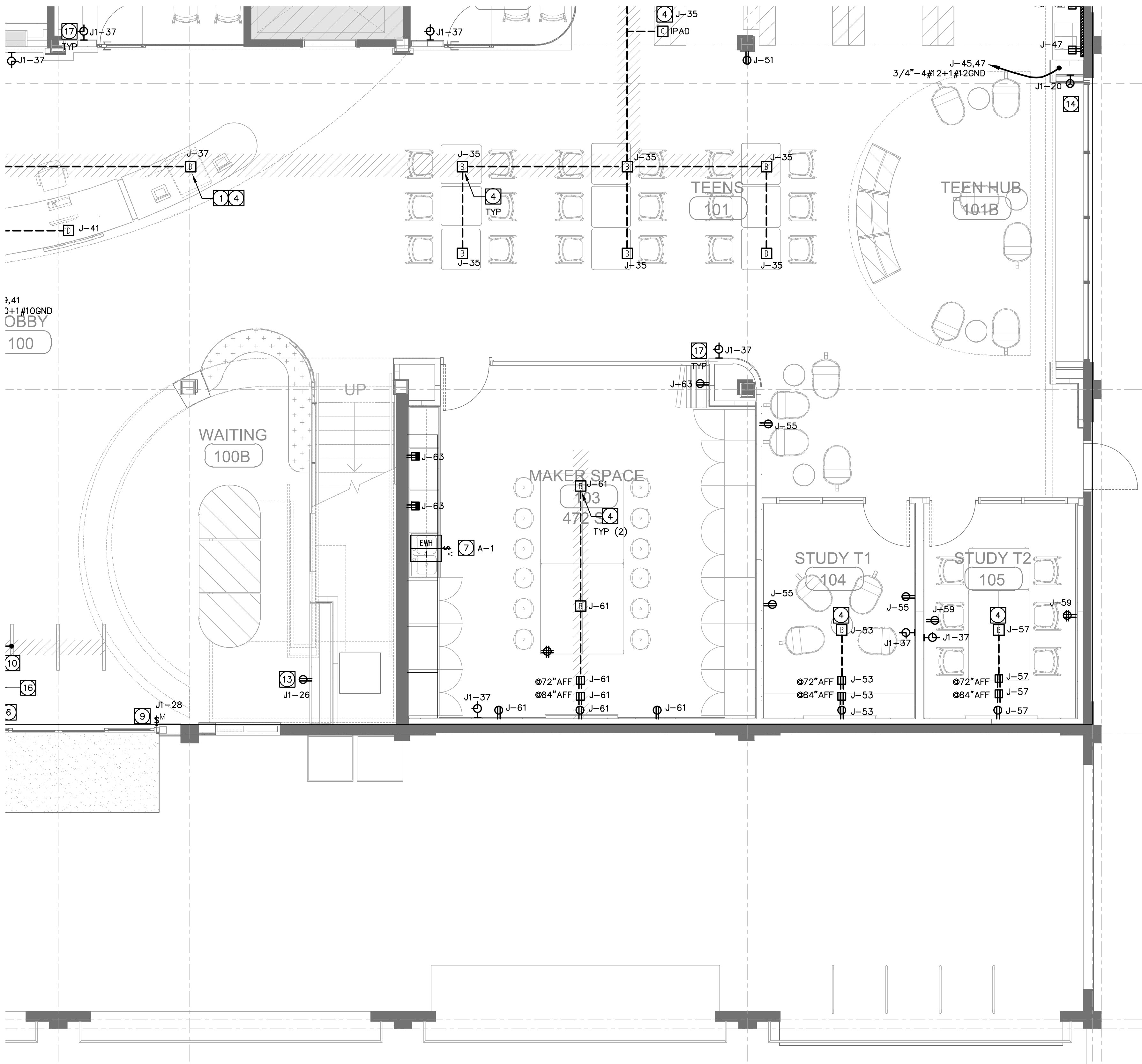
- ## GENERAL NOTES

- ## KEYPLAN

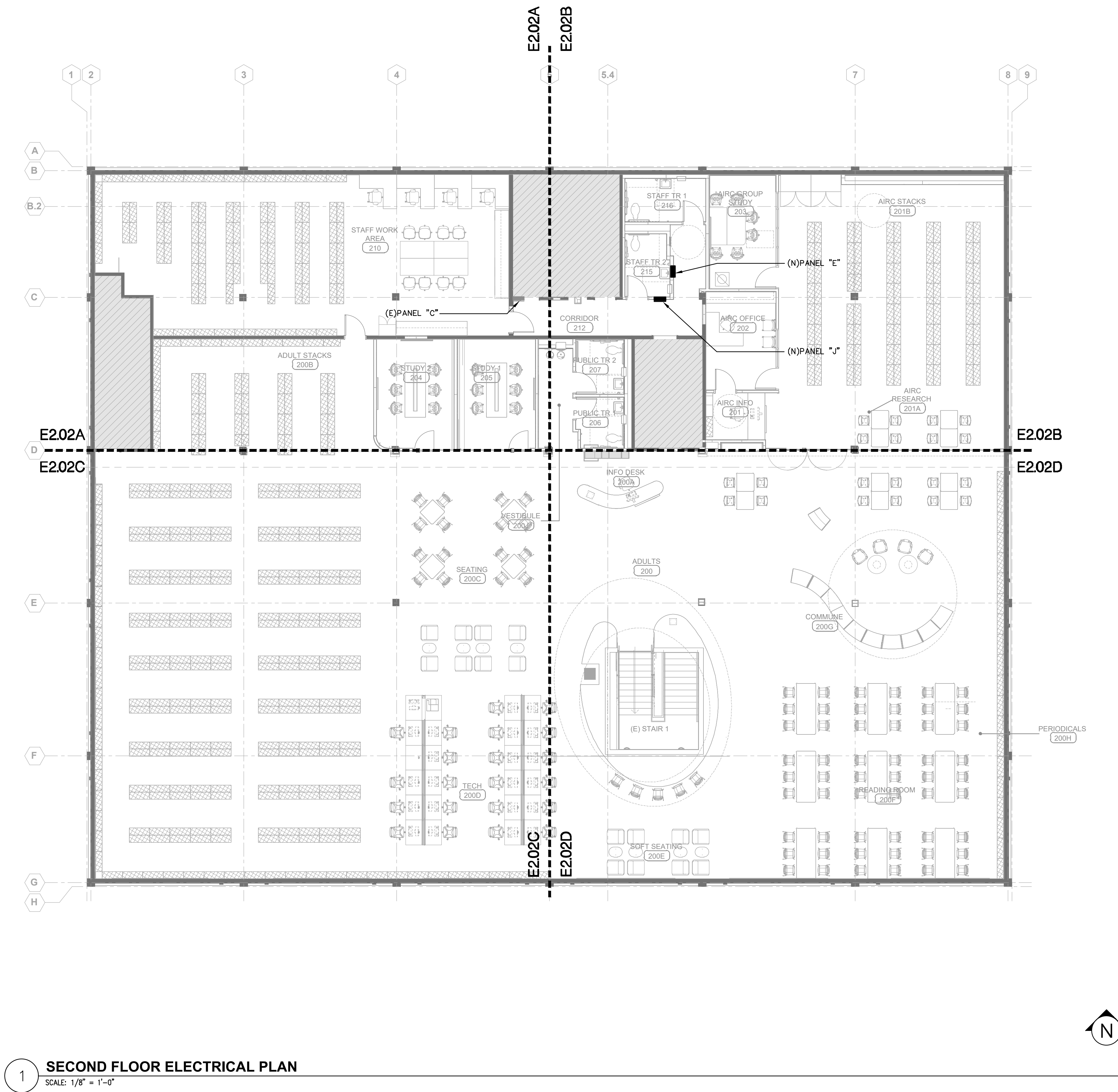
SYMBOL	MODEL	DESCRIPTION	MODEL #	(3)
	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET	#4ATCP2RXX WITH #4B BLANK DEVICE PLATE	(3)
	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH QUAD OUTLET	#4ATCP4RXX	(3)
	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET AND LOW VOLTAGE OUTLET	#4ATCP2RXX	(3) (2)
	EVOLUTION SERIES 6AT	6" FLOOR BOX WITH QUAD OUTLET AND LOW VOLTAGE OUTLET	#6ATCP2RXX	(3) (2)
	EVOLUTION SERIES 6AT	6" FURNITURE FEED WITH LOW VOLTAGE COMPARTMENT	#6ATCPFFXX	(3) (2)

- ① COORDINATE FLOOR BOX DEPTH PRIOR TO ORDERING.
- ② COORDINATE LOW VOLTAGE REQUIREMENTS WITH LOW VOLTAGE DRAWINGS.
- ③ ALL EVOLUTION SERIES POKE-THRU DEVICES SHALL BE "RECESSED" TYPE.

COORDINATE FLOOR BOX COVERS/FINISHES TO MATCH AS BEST AS POSSIBLE



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1 SECOND FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

KEY NOTES

- 1 NOT USED.

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REVISIONS

CONSTRUCTION DOCUMENTS

Salas O'Brien

salasobrien.com

Irvine

8825 Research Drive

Irvine, CA 92618

Phone: 949.255.0600

440.733.1853

REGISTERED PROFESSIONAL ELECTRICAL ENGINEER

STATE OF CALIFORNIA

NO. 13442

EXP. 09/30/26

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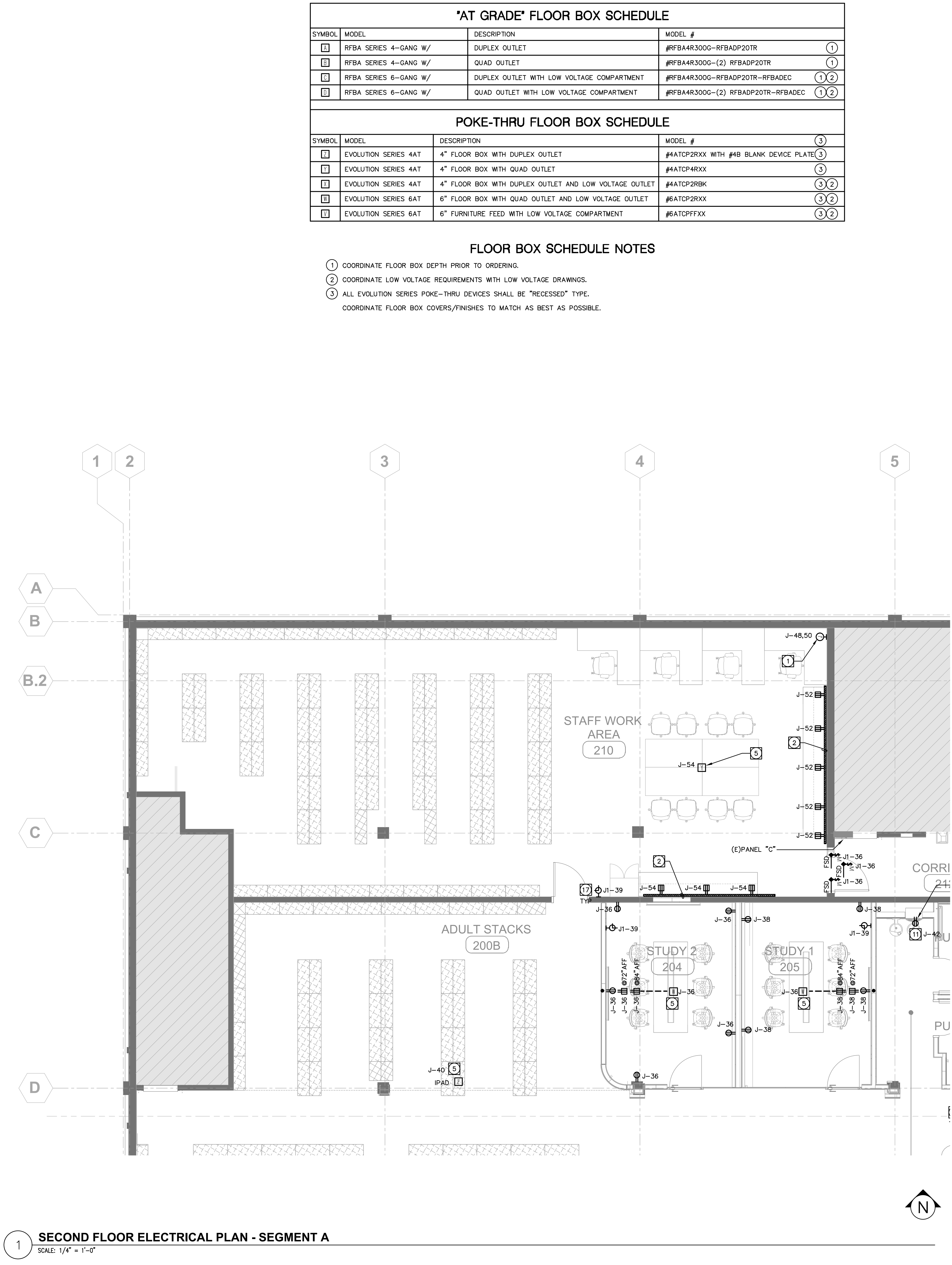
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OVERALL SECOND FLOOR ELECTRICAL PLAN

E2.02

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Last plotted by chris.roberts Layout1



1 SECOND FLOOR ELECTRICAL PLAN - SEGMENT A
SCALE: 1/4" = 1'-0"

"AT GRADE" FLOOR BOX SCHEDULE				
SYMBOL	MODEL	DESCRIPTION	MODEL #	
	RFBA SERIES 4-GANG W/	DUPLEX OUTLET	#RFBA4R300G-RFBADP20TR	①
	RFBA SERIES 4-GANG W/	QUAD OUTLET	#RFBA4R300G-(2) RFBADP20TR	①
	RFBA SERIES 6-GANG W/	DUPLEX OUTLET WITH LOW VOLTAGE COMPARTMENT	#RFBA4R300G-RFBADP20TR-RFBADEC	① ②
	RFBA SERIES 6-GANG W/	QUAD OUTLET WITH LOW VOLTAGE COMPARTMENT	#RFBA4R300G-(2) RFBADP20TR-RFBADEC	① ②
POKE-THRU FLOOR BOX SCHEDULE				
SYMBOL	MODEL	DESCRIPTION	MODEL #	
	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET	#4ATCP2RXX WITH #4B BLANK DEVICE PLATE	③
	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH QUAD OUTLET	#4ATCP4RXX	③
	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET AND LOW VOLTAGE OUTLET	#4ATCP2RBK	③ ②
	EVOLUTION SERIES 6AT	6" FLOOR BOX WITH QUAD OUTLET AND LOW VOLTAGE OUTLET	#6ATCP2RXX	③ ②
	EVOLUTION SERIES 6AT	6" FURNITURE FEED WITH LOW VOLTAGE COMPARTMENT	#6ATCPFFXX	③ ②

- FLOOR BOX SCHEDULE NOTES
- ① COORDINATE FLOOR BOX DEPTH PRIOR TO ORDERING.
 - ② COORDINATE LOW VOLTAGE REQUIREMENTS WITH LOW VOLTAGE DRAWINGS.
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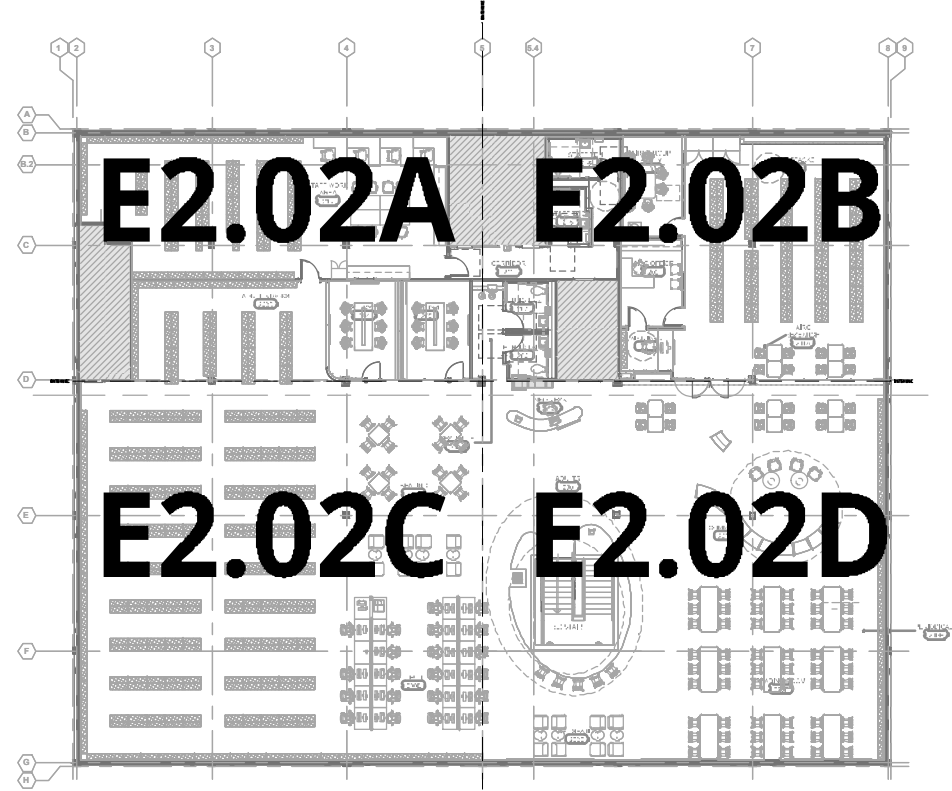
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 - ④ PROVIDE FLOOR BOX, WIREMOLD RATCHET-PRO SERIES OR EQUAL WITH BRUSHED ALUMINUM COVER PLATE. REFER TO "POKE-THRU FLOOR BOX SCHEDULE" FOR DETAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER, ARCHITECT, AND FURNITURE LAYOUT. COORDINATE TRENCH ROUTING WITH ARCHITECT AND STRUCTURAL ENGINEER. CONTRACTOR TO SUBMIT SPECIFICS ON DEVICE QUANTITY AND COVER PLATES.
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- 3. CONTRACTOR IS RESPONSIBLE TO RELOCATE OR REMOVE FROM WALLS, CEILINGS, FLOOR SPACES, ETC., ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFERES WITH PLANNED REMODEL WORK. PROVIDE CIRCUIT CONTINUATION REQUIRED FOR ALL EXISTING OUTLETS, FIXTURES, EQUIPMENT, ETC., SCHEDULED TO REMAIN.
- 4. NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE WALLS.
- 5. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
- 6. EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.
- 7. DEMOLITION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT SITE, AND NOT INTERFERE WITH ITS OPERATION. ANY DEMOLITION WORK TO BE PERFORMED MUST BE PLANNED IN ADVANCE.
- 8. DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OF DEVICES.
- 9. RESEAL ALL PENETRATIONS OR OPENING THROUGH WALLS, CEILING, FLOORS, ETC., TO MAINTAIN THE RATING OF STRUCTURE.
- 10. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IS SALVAGED MATERIALS SHALL REMAIN IN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGED. DISPOSE OF ALL HAZARDOUS MATERIAL PER GUIDELINE OF THE STATE OF CALIFORNIA, DEPARTMENT OF HEALTH SERVICES AND OTHER AGENCIES HAVING JURISDICTION.
- 11. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT/WIRING RUNS, REUSE AS REQUIRE AND REMOVED ALL UNUSED CONDUIT/WIRING. UNUSED CONDUIT IN INACCESSIBLE LOCATIONS (WALLS TO REMAIN) CAN BE ABANDONED IN PLACE. REMOVE UNUSED WIRING.
- 12. REFER TO SHEET E051 FOR MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL CONNECTION SCHEDULE FOR FEEDER SIZE, DISCONNECT SIZE, AND ADDITIONAL INFORMATION.

KEYPLAN



REVISIONS

CONSTRUCTION DOCUMENTS

Salas O'Brien
salasobrien.com
Irvine
8825 Research Drive
Irvine, CA 92618
Phone: 949.262.0600



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SECOND FLOOR ELECTRICAL PLAN SEGMENT A

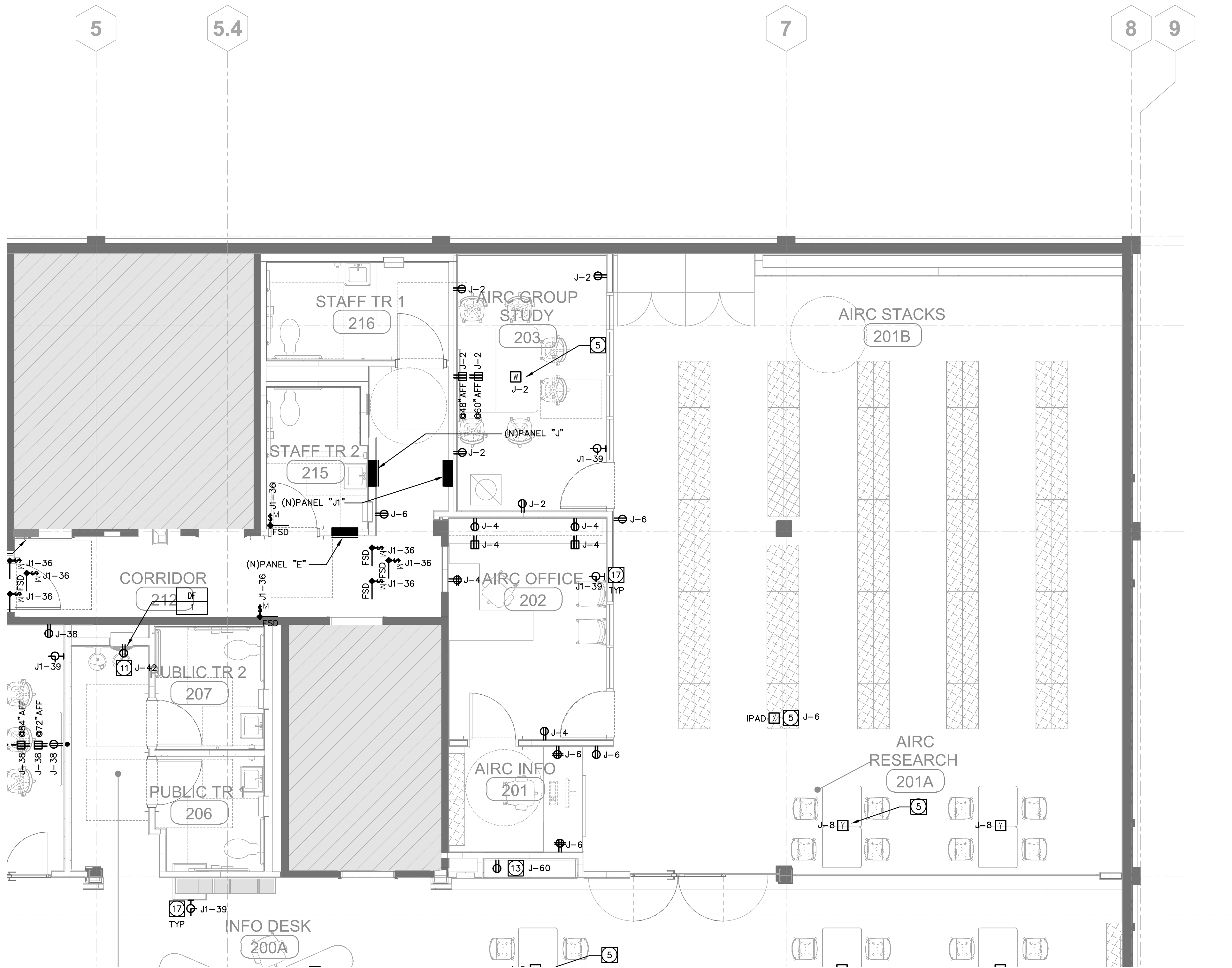
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"AT GRADE" FLOOR BOX SCHEDULE				
SYMBOL	MODEL	DESCRIPTION	MODEL #	
	RFBA SERIES 4-GANG W/	DUPLEX OUTLET	#RFBA4R300G-RFBADP20TR	①
	RFBA SERIES 4-GANG W/	QUAD OUTLET	#RFBA4R300G-(2) RFBADP20TR	①
	RFBA SERIES 6-GANG W/	DUPLEX OUTLET WITH LOW VOLTAGE COMPARTMENT	#RFBA4R300G-RFBADP20TR-RFBADEC	① ②
	RFBA SERIES 6-GANG W/	QUAD OUTLET WITH LOW VOLTAGE COMPARTMENT	#RFBA4R300G-(2) RFBADP20TR-RFBADEC	① ②
POKE-THRU FLOOR BOX SCHEDULE				
SYMBOL	MODEL	DESCRIPTION	MODEL #	
	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET	#4ATCP2RXX WITH #4B BLANK DEVICE PLATE	③
	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH QUAD OUTLET	#4ATCP4RXX	③
	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET AND LOW VOLTAGE OUTLET	#4ATCP2RBK	③ ②
	EVOLUTION SERIES 6AT	6" FLOOR BOX WITH QUAD OUTLET AND LOW VOLTAGE OUTLET	#6ATCP2RXX	③ ②
	EVOLUTION SERIES 6AT	6" FURNITURE FEED WITH LOW VOLTAGE COMPARTMENT	#6ATCPFFXX	③ ②

FLOOR BOX SCHEDULE NOTES

- ① COORDINATE FLOOR BOX DEPTH PRIOR TO ORDERING.
- ② COORDINATE LOW VOLTAGE REQUIREMENTS WITH LOW VOLTAGE DRAWINGS.
- ③ ALL EVOLUTION SERIES POKE-THRU DEVICES SHALL BE "RECESSED" TYPE.
COORDINATE FLOOR BOX COVERS/FINISHES TO MATCH AS BEST AS POSSIBLE.



1 SECOND FLOOR ELECTRICAL PLAN - SEGMENT B
SCALE: 1/4" = 1'-0"

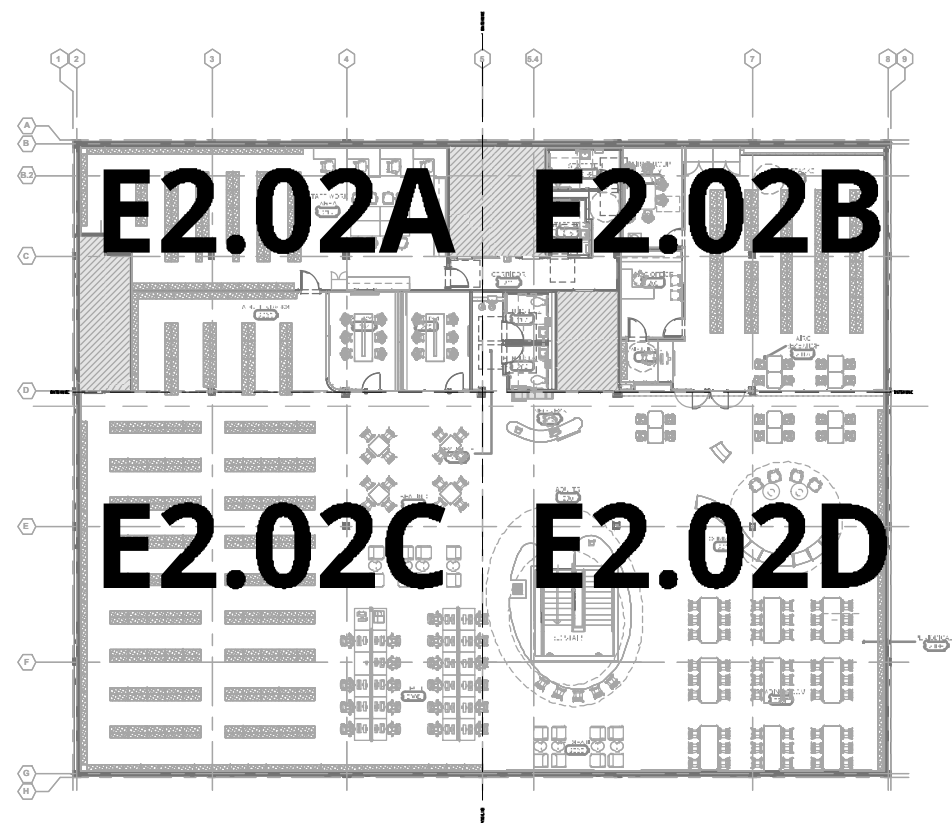
KEY NOTES

- KEYNOTES ARE TYPICAL FOR ALL ENLARGED POWER PLAN SHEETS. INDIVIDUAL KEYNOTES MAY NOT APPEAR ON EACH SHEET.
- ① PROVIDE A 4-CIRCUIT, 8-WIRE FEED TO SYSTEM FURNITURE PRE-WIRED WHIP.
- ② PROVIDE WIREMOLD S-4000 STAINLESS STEEL, TWO-PIECE DUAL SYSTEM RACEWAY WITH DIVIDER. PROVIDE NEMA 5-20R DEVICES AT 36" OVER COUNTER. COORDINATE WITH LOW VOLTAGE DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- ③ INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW OUTLET.
- ④ PROVIDE FLOOR BOX, WIREMOLD RATCHET-PRO SERIES OR EQUAL WITH BRUSHED ALUMINUM COVER PLATE. REFER TO "POKE-THRU FLOOR BOX SCHEDULE" FOR DETAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER, ARCHITECT, AND FURNITURE LAYOUT. COORDINATE TRENCH ROUTING WITH ARCHITECT AND STRUCTURAL ENGINEER. CONTRACTOR TO SUBMIT SPECIFICS ON DEVICE QUANTITY AND COVER PLATES.
- ⑤ PROVIDE EVOLUTION POKE-THRU FLOOR BOX OR EQUAL WITH BRUSHED ALUMINUM COVER PLATE. REFER TO "POKE-THRU FLOOR BOX SCHEDULE" FOR DETAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER, ARCHITECT, AND FURNITURE LAYOUT. CONTRACTOR TO SUBMIT SPECIFICS ON DEVICE QUANTITY AND COVER PLATES.
- ⑥ PROVIDE OUTLET AT 54" AFF FOR DIGITAL DISPLAY. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- ⑦ PROVIDE POWER FOR UNDERSINK INSTA-HOT HOT WATER HEATER. REFER TO PLUMBING EQUIPMENT SCHEDULE ON SHEET E051 FOR ADDITIONAL INFORMATION INCLUDING LOCAL DISCONNECT REQUIREMENTS AND FEEDER SIZE.
- ⑧ PROVIDE SURFACE MOUNT RACEWAY RISER ON EXISTING PLASTER WALL. RACEWAY SHALL BE PAINTED TO MATCH.
- ⑨ PROVIDE POWER AT POWERED STOREFRONT DOOR.
- ⑩ PROVIDE POWER FOR BOOK DETECTION GATES.
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- ⑬ PROVIDE POWER FOR ILLUMINATED DISPLAY CABINET. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- ⑭ PROVIDE CIRCUIT AS INDICATED FOR SEATING BENCH. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE NEMA 5-20L RECEPTACLE. COORDINATE OUTLET CONFIGURATION WITH SYSTEMS FURNITURE MANUFACTURER PRIOR TO ROUGH-IN.
- ⑮ PROVIDE PENETRATION THROUGH EXISTING PLASTER WALL TO BACK OF HOUSE AREA FOR NEW OUTLET ON EXISTING PLASTER WALL. PROVIDE SURFACE MOUNT RACEWAY IN BACK OF HOUSE AREA. REFER TO DETAIL #4, SHEET E0.91.
- ⑯ LOW VOLTAGE CONDUIT ALSO REQUIRED. COORDINATE WITH LOW VOLTAGE DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- ⑰ PROVIDE 120V POWER FOR SYNCHRONIZED CLOCK AT 8FT ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

GENERAL NOTES

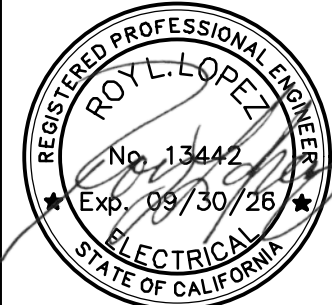
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KEYPLAN



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SECOND FLOOR
ELECTRICAL PLAN
SEGMENT B

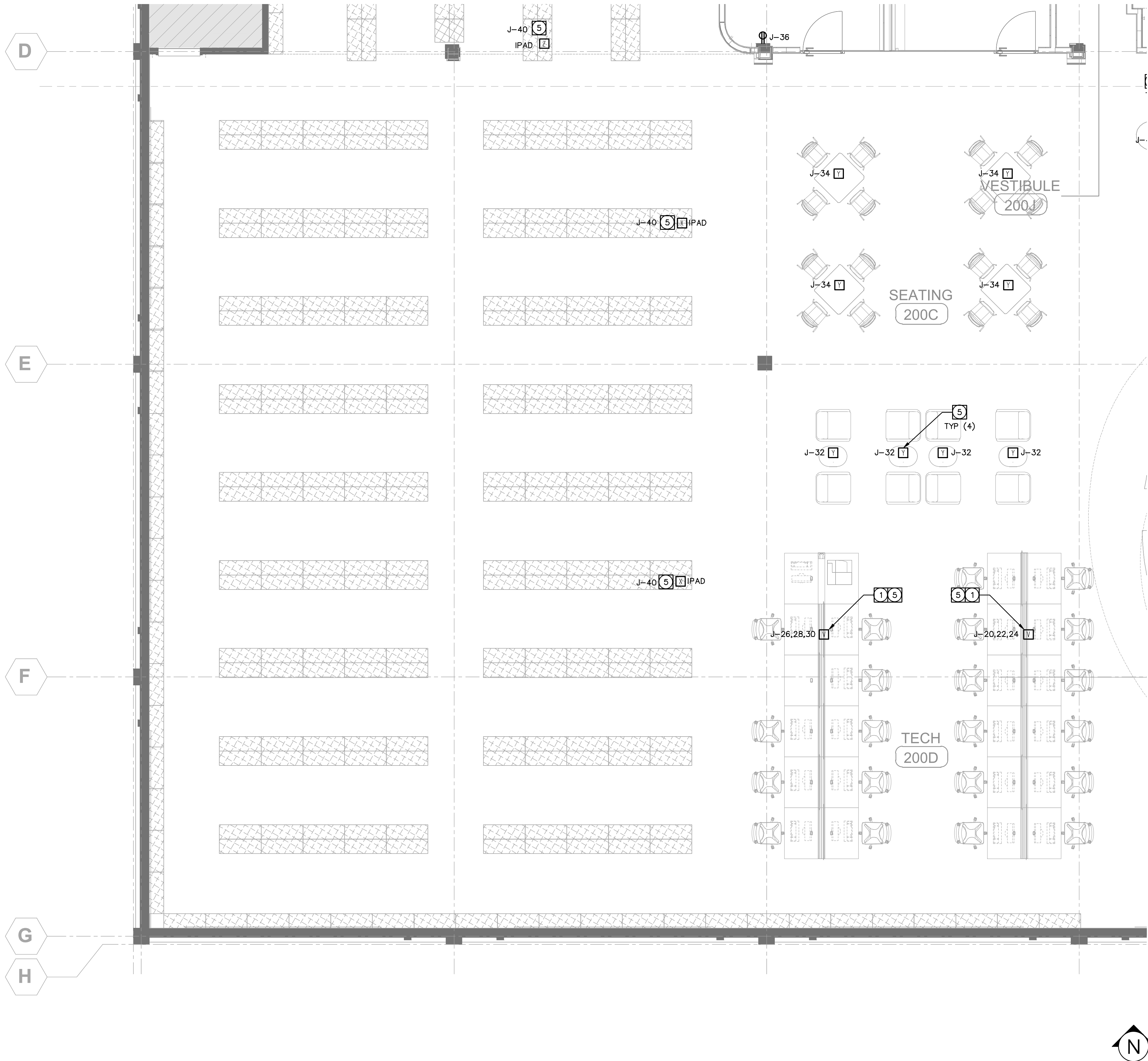
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Last plotted by chris.roberts Layout1
Autodesk Docs\7161-23025 LACPPW LAC Huntington Library Renovation\7161-23025_Huntington-Park-Library.nct
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"AT GRADE" FLOOR BOX SCHEDULE				
SYMBOL	MODEL	DESCRIPTION	MODEL #	
	RFBA SERIES 4--GANG W/	DUPLEX OUTLET	#RFBA4R300G--RFBADP20TR	①
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	RFBA SERIES 6--GANG W/	DUPLEX OUTLET WITH LOW VOLTAGE COMPARTMENT	#RFBA4R300G--RFBADP20TR--RFBADDEC	① ②
	RFBA SERIES 6--GANG W/	QUAD OUTLET WITH LOW VOLTAGE COMPARTMENT	#RFBA4R300G--(2) RFBADP20TR--RFBADDEC	① ②
POKE-THRU FLOOR BOX SCHEDULE				
SYMBOL	MODEL	DESCRIPTION	MODEL #	
	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET	#4ATCP2RXX WITH #4B BLANK DEVICE PLATE	③
	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH QUAD OUTLET	#4ATCP4RXX	③
	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET AND LOW VOLTAGE OUTLET	#4ATCP2RBK	③ ②
	EVOLUTION SERIES 6AT	6" FLOOR BOX WITH QUAD OUTLET AND LOW VOLTAGE OUTLET	#6ATCP2RXX	③ ②
	EVOLUTION SERIES 6AT	6" FURNITURE FEED WITH LOW VOLTAGE COMPARTMENT	#6ATCPFFXX	③ ②

FLOOR BOX SCHEDULE NOTES

- ① COORDINATE FLOOR BOX DEPTH PRIOR TO ORDERING.
- ② COORDINATE LOW VOLTAGE REQUIREMENTS WITH LOW VOLTAGE DRAWINGS.
- ③ ALL EVOLUTION SERIES POKE-THRU DEVICES SHALL BE "RECESSED" TYPE.
COORDINATE FLOOR BOX COVERS/FINISHES TO MATCH AS BEST AS POSSIBLE.



1 SECOND FLOOR ELECTRICAL PLAN - SEGMENT C
SCALE: 1/4" = 1'-0"

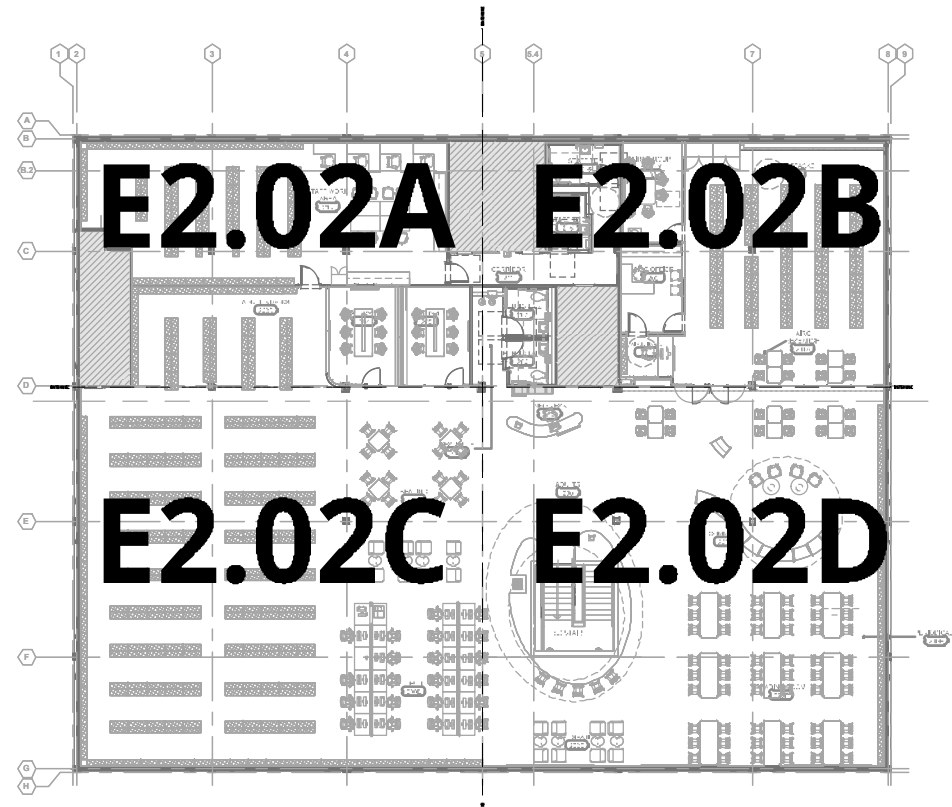
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 - ② PROVIDE WIREMOLD S--4000 STAINLESS STEEL, TWO--PIECE DUAL SYSTEM RACEWAY WITH DIVIDER. PROVIDE NEMA 5--20R DEVICES AT 36" OVER COUNTER. COORDINATE WITH LOW VOLTAGE DRAWINGS FOR ADDITIONAL REQUIREMENTS.
 - ③ INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW OUTLET.
 - ④ PROVIDE FLOOR BOX, WIREMOLD RATCHET--PRO SERIES OR EQUAL WITH BRUSHED ALUMINUM COVER PLATE. REFER TO "AT GRADE FLOOR BOX SCHEDULE" FOR DETAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER, ARCHITECT, AND FURNITURE LAYOUT. COORDINATE TRENCH ROUTING WITH ARCHITECT AND STRUCTURAL ENGINEER. CONTRACTOR TO SUBMIT SPECIFICS ON DEVICE QUANTITY AND COVER PLATES.
 - ⑤ PROVIDE EVOLUTION POKE--THRU FLOOR BOX OR EQUAL WITH BRUSHED ALUMINUM COVER PLATE. REFER TO "POKE--THRU FLOOR BOX SCHEDULE" FOR DETAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER, ARCHITECT, AND FURNITURE LAYOUT. CONTRACTOR TO SUBMIT SPECIFICS ON DEVICE QUANTITY AND COVER PLATES.
 - ⑥ PROVIDE OUTLET AT 54" AFF FOR DIGITAL DISPLAY. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH--IN.
 - ⑦ PROVIDE POWER FOR UNDERSINK INSTA--HOT HOT WATER HEATER. REFER TO PLUMBING EQUIPMENT SCHEDULE ON SHEET E051 FOR ADDITIONAL INFORMATION INCLUDING LOCAL DISCONNECT REQUIREMENTS AND FEEDER SIZE.
 - ⑧ PROVIDE SURFACE MOUNT RACEWAY RISER ON EXISTING PLASTER WALL. RACEWAY SHALL BE PAINTED TO MATCH.
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GENERAL NOTES

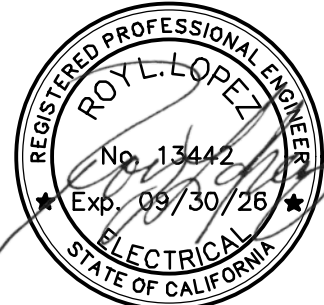
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KEYPLAN



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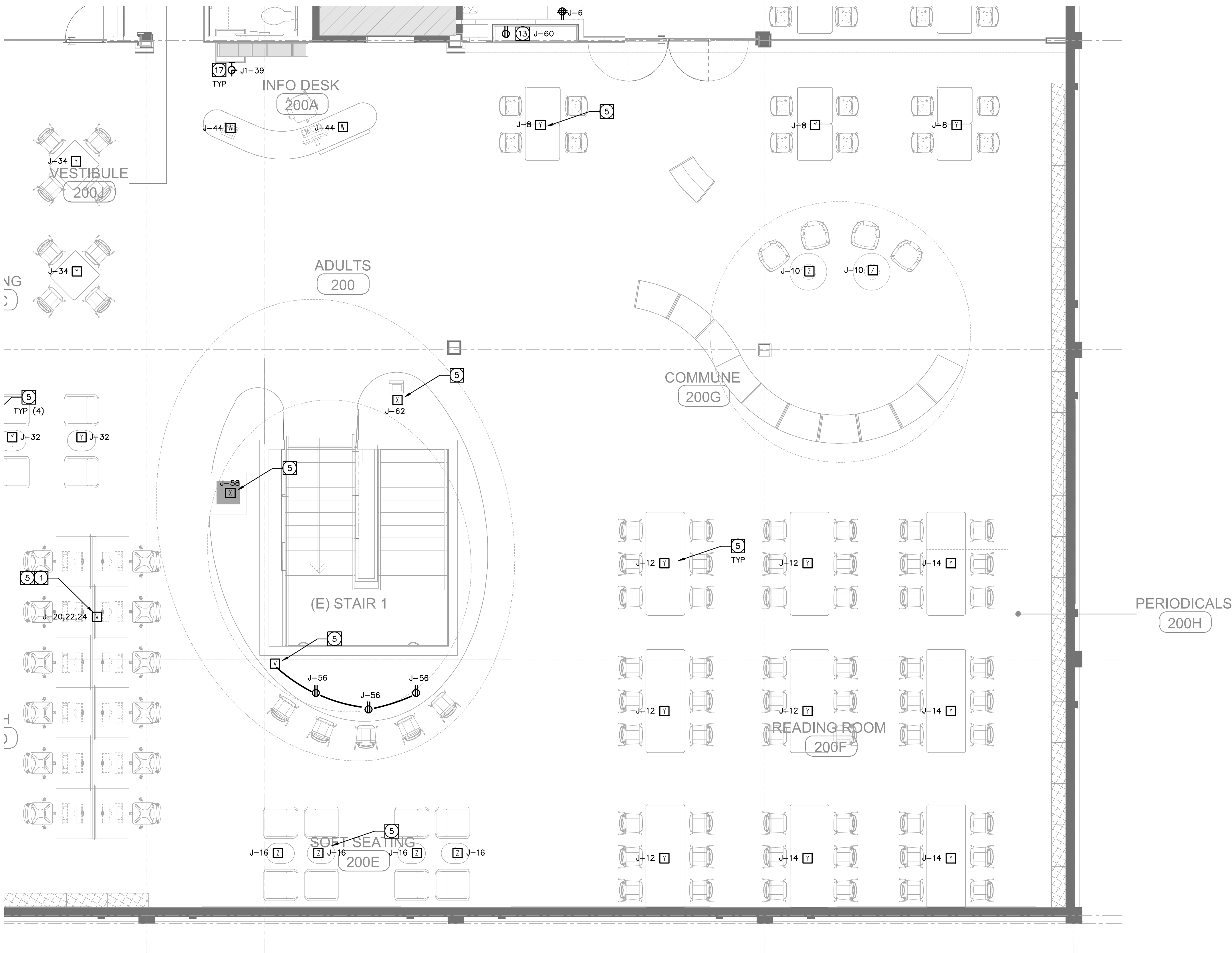
SECOND FLOOR
ELECTRICAL PLAN
SEGMENT C

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1 SECOND FLOOR ELECTRICAL PLAN - SEGMENT D

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



"AT GRADE" FLOOR BOX SCHEDULE				
SYMBOL	MODEL	DESCRIPTION	MODEL #	
[1]	RFBA SERIES 4--GANG W/	DUPLEX OUTLET	#RFBA4R300G--RFBADP20TR	①
[2]	RFBA SERIES 4--GANG W/	QUAD OUTLET	#RFBA4R300G--(2) RFBADP20TR	①
[3]	RFBA SERIES 6--GANG W/	DUPLEX OUTLET WITH LOW VOLTAGE COMPARTMENT	#RFBA4R300G--RFBADP20TR--RFBADP20TR	① ②
[4]	RFBA SERIES 6--GANG W/	QUAD OUTLET WITH LOW VOLTAGE COMPARTMENT	#RFBA4R300G--(2) RFBADP20TR--RFBADP20TR	① ②
POKE-THRU FLOOR BOX SCHEDULE				
SYMBOL	MODEL	DESCRIPTION	MODEL #	
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[6]	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH QUAD OUTLET	#4ATCP4RXX	③
[7]	EVOLUTION SERIES 4AT	4" FLOOR BOX WITH DUPLEX OUTLET AND LOW VOLTAGE OUTLET	#4ATCP2RBK	③ ②
[8]	EVOLUTION SERIES 6AT	6" FLOOR BOX WITH QUAD OUTLET AND LOW VOLTAGE OUTLET	#6ATCP2RXX	③ ②
[9]	EVOLUTION SERIES 6AT	6" FURNITURE FEED WITH LOW VOLTAGE COMPARTMENT	#6ATCPFFXX	③ ②

FLOOR BOX SCHEDULE NOTES

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- ③ ALL EVOLUTION SERIES POKE-THRU DEVICES SHALL BE "RECESSED" TYPE.
COORDINATE FLOOR BOX COVERS/FINISHES TO MATCH AS BEST AS POSSIBLE.

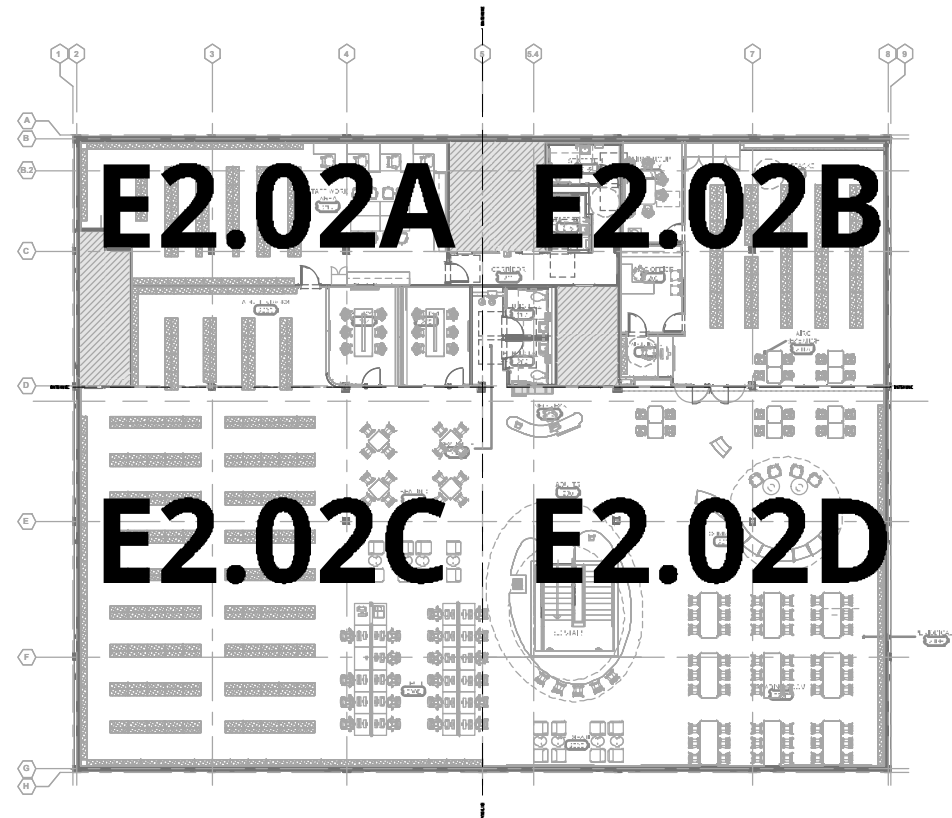
KEY NOTES

- KEYNOTES ARE TYPICAL FOR ALL ENLARGED POWER PLAN SHEETS. INDIVIDUAL KEYNOTES MAY NOT APPEAR ON EACH SHEET.
- ① PROVIDE A 4--CIRCUIT, 8--WIRE FEED TO SYSTEM FURNITURE PRE--WIRED WHIP.
 - ② PROVIDE WIREMOLD S--4000 STAINLESS STEEL, TWO--PIECE DUAL SYSTEM RACEWAY WITH DIVIDER. PROVIDE NEMA 5--20R DEVICES AT 36" OVER COUNTER. COORDINATE WITH LOW VOLTAGE DRAWINGS FOR ADDITIONAL REQUIREMENTS.
 - ③ INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW OUTLET.
 - ④ PROVIDE FLOOR BOX, WIREMOLD RATCHET--PRO SERIES OR EQUAL WITH BRUSHED ALUMINUM COVER PLATE. REFER TO "AT GRADE FLOOR BOX SCHEDULE" FOR DETAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER, ARCHITECT, AND FURNITURE LAYOUT. COORDINATE TRENCH ROUTING WITH ARCHITECT AND STRUCTURAL ENGINEER. CONTRACTOR TO SUBMIT SPECIFICS ON DEVICE QUANTITY AND COVER PLATES.
 - ⑤ PROVIDE EVOLUTION POKE--THRU FLOOR BOX OR EQUAL WITH BRUSHED ALUMINUM COVER PLATE. REFER TO "POKE--THRU FLOOR BOX SCHEDULE" FOR DETAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER, ARCHITECT, AND FURNITURE LAYOUT. CONTRACTOR TO SUBMIT SPECIFICS ON DEVICE QUANTITY AND COVER PLATES.
 - ⑥ PROVIDE OUTLET AT 54" AFF FOR DIGITAL DISPLAY. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH--IN.
 - ⑦ PROVIDE POWER FOR UNDERSINK INSTA--HOT HOT WATER HEATER. REFER TO PLUMBING EQUIPMENT SCHEDULE ON SHEET E051 FOR ADDITIONAL INFORMATION INCLUDING LOCAL DISCONNECT REQUIREMENTS AND FEEDER SIZE.
 - ⑧ PROVIDE SURFACE MOUNT RACEWAY RISER ON EXISTING PLASTER WALL. RACEWAY SHALL BE PAINTED TO MATCH.
 - ⑨ PROVIDE POWER AT POWERED STOREFRONT DOOR.
 - ⑩ PROVIDE POWER FOR BOOK DETECTION GATES.
 - ⑪ PROVIDE POWER FOR CHILLED WATER FOUNTAIN/BOTTLE FILLER.
 - ⑫ PROVIDE WIREMOLD S--4000 STAINLESS STEEL, TWO--PIECE DUAL SYSTEM RACEWAY WITH DIVIDER. PROVIDE 5--20R DEVICES UNDER COUNTER.
 - ⑬ PROVIDE POWER FOR ILLUMINATED DISPLAY CABINET. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH--IN.
 - ⑭ PROVIDE CIRCUIT AS INDICATED FOR SEATING BENCH. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH--IN. PROVIDE NEMA 5--20L RECEPTACLE. COORDINATE OUTLET CONFIGURATION WITH SYSTEMS FURNITURE MANUFACTURER PRIOR TO ROUGH--IN.
 - ⑮ PROVIDE PENETRATION THROUGH EXISTING PLASTER WALL TO BACK OF HOUSE AREA FOR NEW OUTLET ON EXISTING PLASTER WALL. PROVIDE SURFACE MOUNT RACEWAY IN BACK OF HOUSE AREA. REFER TO DETAIL #4, SHEET E091.
 - ⑯ LOW VOLTAGE CONDUIT ALSO REQUIRED. COORDINATE WITH LOW VOLTAGE DRAWINGS FOR ADDITIONAL REQUIREMENTS.
 - ⑰ PROVIDE 120V POWER FOR SYNCHRONIZED CLOCK AT 8FT ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH--IN.

GENERAL NOTES

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8. DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OF DEVICES.
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12. REFER TO SHEET E051 FOR MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL CONNECTION SCHEDULE FOR FEEDER SIZE, DISCONNECT SIZE, AND ADDITIONAL INFORMATION.

KEYPLAN



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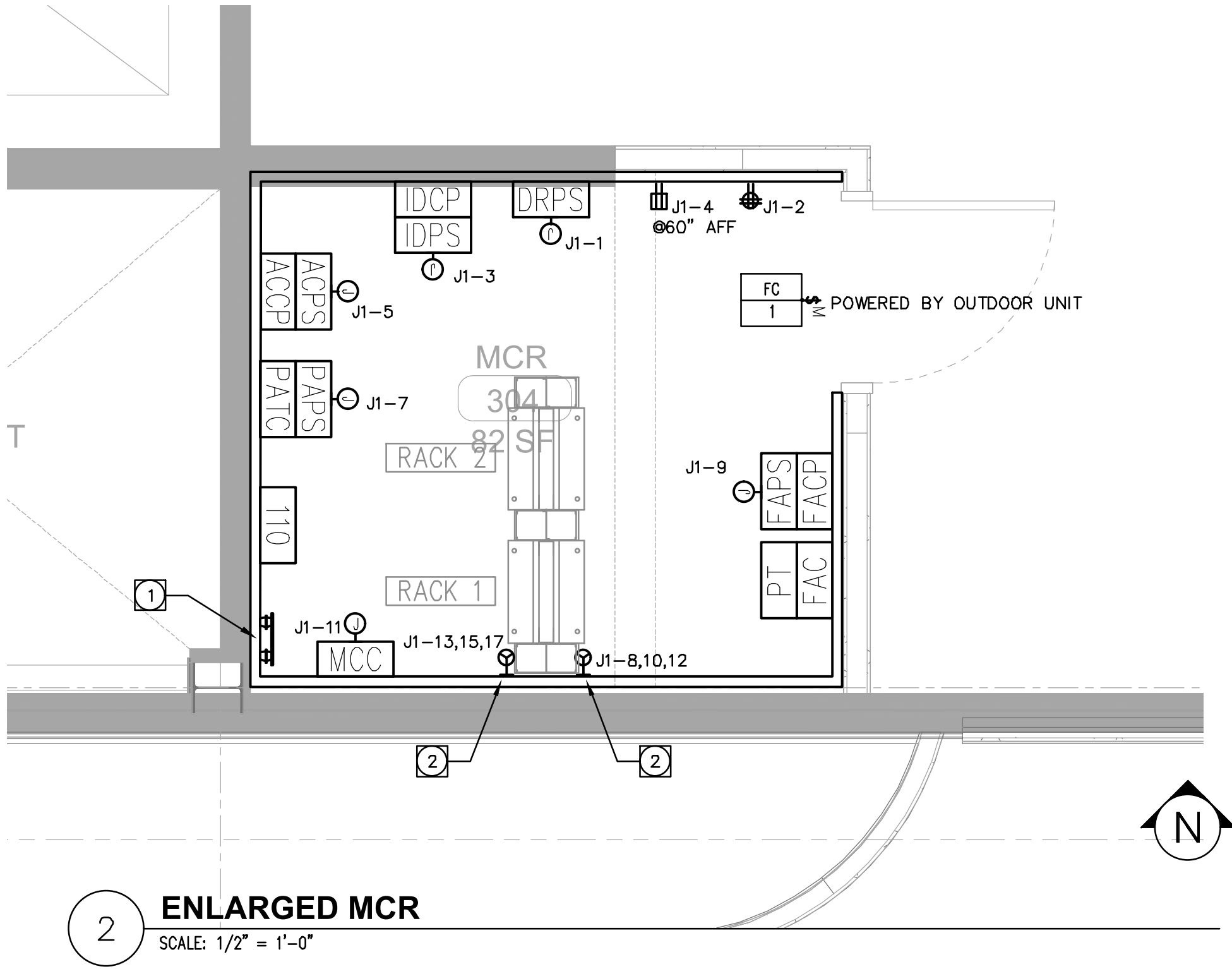
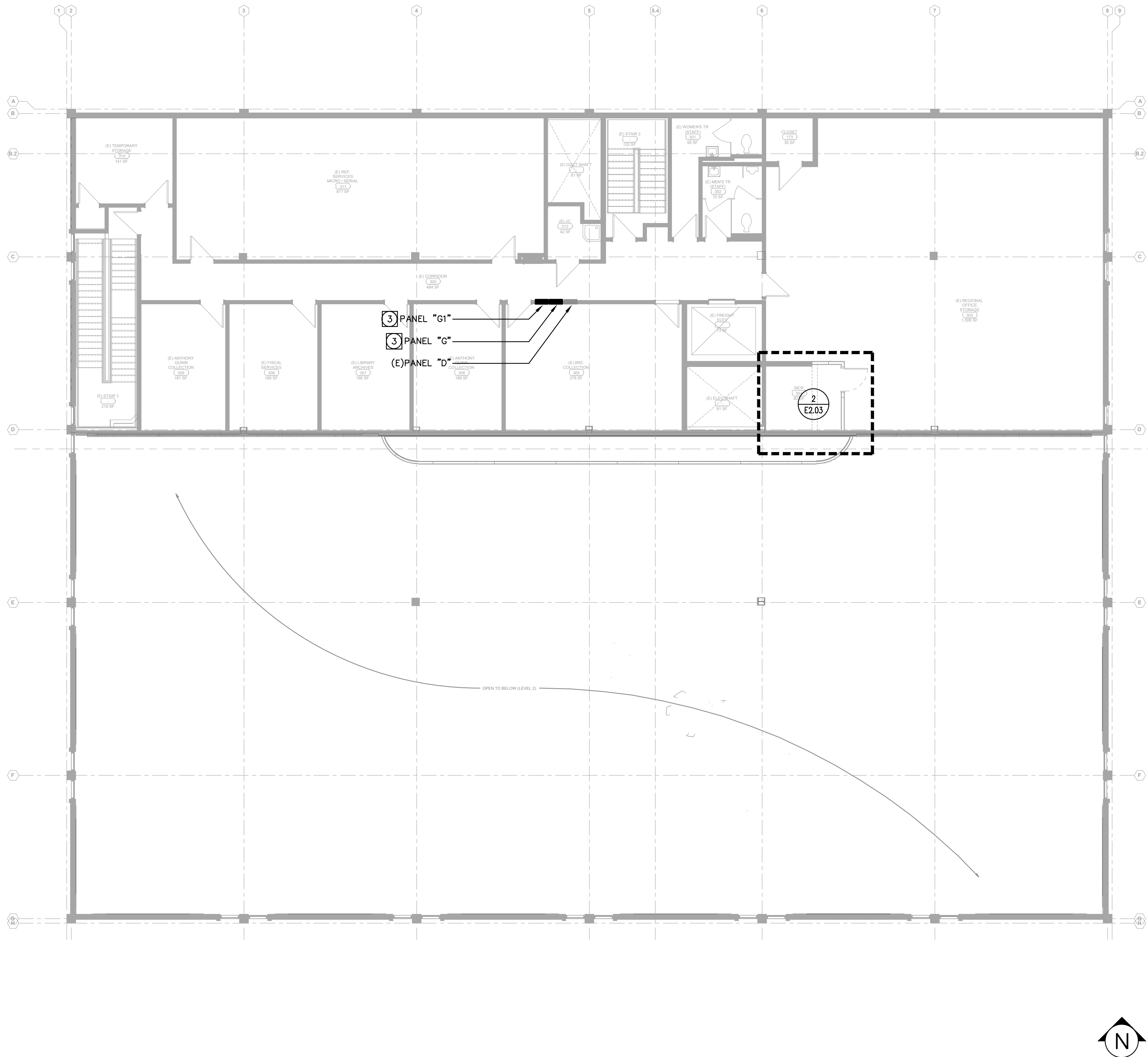
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SECOND FLOOR
ELECTRICAL PLAN
SEGMENT D

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1 **THIRD FLOOR ELECTRICAL PLAN**
SCALE: 1/8" = 1'-0"



KEY NOTES

- 1 PROVIDE GROUND BUS. REFER TO DETAIL #3, SHEET E0.91.
- 2 PROVIDE 208V, 3PH, 30A OUTLET FOR IT RACK UPS SYSTEM. COORDINATE WITH EQUIPMENT VENDER PRIOR TO ROUGH-IN. PROVIDE 3/4"C-4#10+1#10GND.
- 3 REPLACE EXISTING PANEL WITH NEW LIKE KIND PANEL. REFER TO SINGLE LINE DIAGRAM SHEET E011 AND PANEL SCHEDULES SHEET E021 FOR ADDITIONAL INFORMATION.

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REVISIONS

CONSTRUCTION DOCUMENTS

Salas O'Brien
Irvine
8825 Research Drive
Irvine, CA 92618
Phone: 949.255.4600



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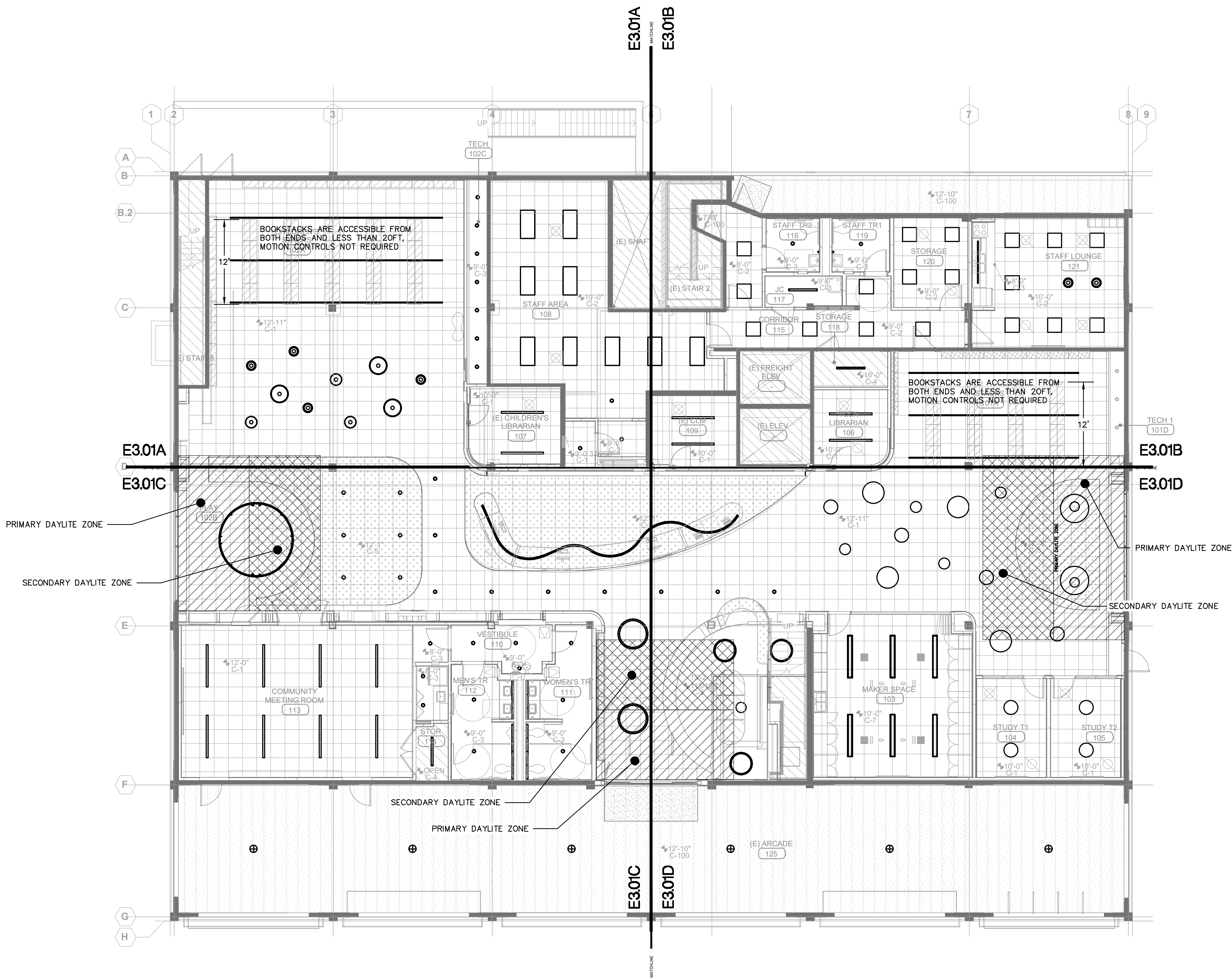
THIRD FLOOR
ELECTRICAL PLAN

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1 FIRST FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"



KEY NOTES

- KEYNOTES ARE TYPICAL FOR ALL LIGHTING SHEETS. INDIVIDUAL KEYNOTES MAY NOT APPEAR ON EACH SHEET.
1. PROVIDE LIGHTING CIRCUIT FOR STACK MOUNTED LIGHTS. COORDINATE EXACTION LOCATION WITH STACK PROVIDER. CIRCUITS TO BE ROUTED THROUGH STACKS TO LIGHTING WIRING CHANNEL AT TOP OF THE STACK.
 2. INDICATED DRC(S) SHALL BE LOCATED ADJACENT TO ELECTRICAL PANEL. DRC(S) SHOWN AT LOCATION FOR CONTROL REFERENCE ONLY. PROVIDE DETAILED LABEL ON JUNCTION BOX(ES) HOUSING DRC(S) INDICATING THE AREA AND LIGHTS THAT THEY CONTROL
 3. PROVIDE MASTER LIGHTING CONTROL STATION, TOUCH SCREEN CONTROLLER/OVERRIDE STATION. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
 4. PROVIDE LIGHTING SCENE CONTROLLER TO CONTROL LIGHTS WITHIN THE ROOM. COORDINATE WITH OWNER FOR DESIRED SCENE PRESETS.

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17. WHERE MULTIPLE HOMERUNS ARE SHOWN ON THE PLANS FOR THE SAME CIRCUIT, THEY SHALL BE COMBINED INTO A SINGLE HOMERUN.
18. HALF SHADED FIXTURES OR FIXTURES WITH "EM" INDICATE EMERGENCY LIGHTING FIXTURES. EMERGENCY LIGHTING FIXTURES SHALL BE POWERED BY EMERGENCY LIGHTING PANEL.
19. ALL DIMMING BRANCH CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE/CHANNEL.
20. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRE STOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
21. REFER TO LIGHTING CONTROL DETAILS SHEET E075 FOR LIGHTING CONTROL REQUIREMENTS.
22. ALL EXPOSED LIGHTING CONTROL DEVICES SHALL BE INSTALLED IN LINE WITH THE ADJACENT LIGHT FIXTURES OR EXPOSED EQUIPMENT. COORDINATE WITH ARCHITECT FOR EXACT PLACEMENT.
23. FINAL LOCATION AND CALIBRATION OF PHOTO SENSORS AND OCCUPANCY SENSORS TO BE COORDINATED IN FIELD.
24. CONTRACTOR SHALL MEASURE WINDOW HEAD HEIGHT AND CONFIRM DAYLIT ZONES SHOWN PRIOR TO CIRCUITING LIGHTING FIXTURES IN ROOM(S) WITH DAYLIT ZONES.
25. WHERE ROOM CONTROLLER IS/ARE SHOWN TO BE LOCATED IN A ROOM WITH A HARD LID CEILING, THE ROOM CONTROLLER(S) SHALL BE PROVIDED WITH AN ACCESS PANEL OR SHALL BE LOCATED WITHIN NEAREST ACCESSIBLE CEILING SPACE. COORDINATE WITH ARCHITECT.
26. ALL NECESSARY EQUIPMENT/ COMPONENTS ARE TO BE PROVIDED BY THE CONTRACTOR FOR A COMPLETE AND OPERATING CONTROL SYSTEM, INCLUDING BUT NOT LIMITED TO COMMISSIONING, CABLING, EMERGENCY LIGHTING, OCCUPANCY SENSOR, DAYLIGHT CONTROLS, CONTROLLED RECEPTACLE RELAYS, DIMMING, AND DIMMING CONVERTERS TO MEET ALL IEC REQUIREMENTS AT TIME OF PERMIT SUBMITTAL AND INSPECTION. ALL COMPONENTS, EXCEPT FOR CONTROL STATIONS, SHALL BE ABOVE THE CEILING, CONCEALED FROM VIEW, OR INSTALLED IN NEMA 1 CABINETS IN CLOSETS OR UTILITY ROOMS.

REVISIONS

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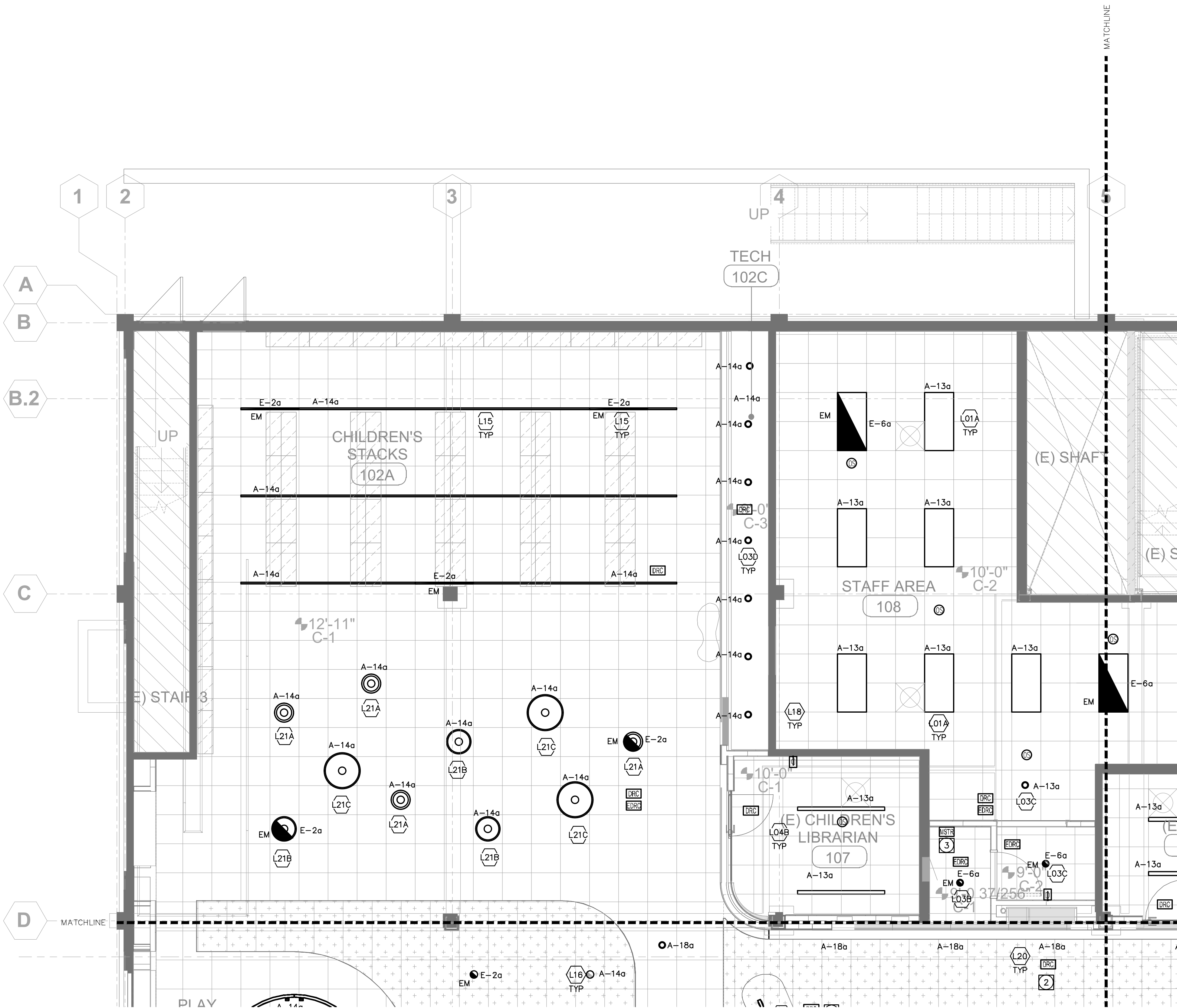


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FIRST FLOOR
LIGHTING PLAN

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1 FIRST FLOOR LIGHTING PLAN - SEGMENT A
SCALE: 1/4" = 1'-0"

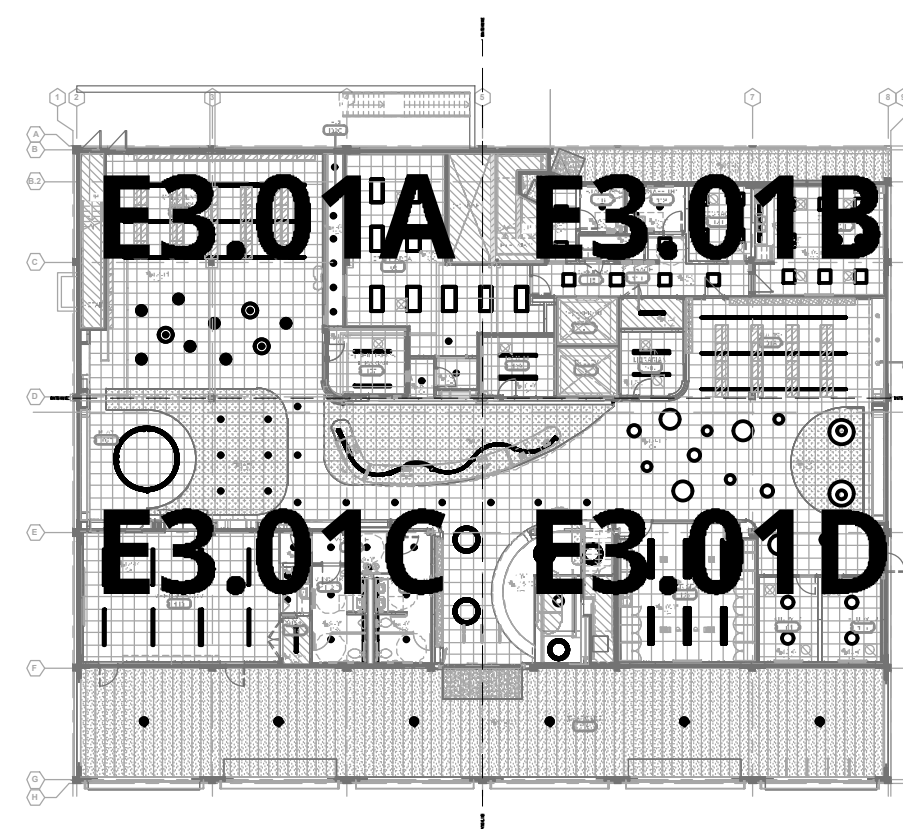
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19. ALL DIMMING BRANCH CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE/CHANNEL.
20. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRE STOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
21. REFER TO LIGHTING CONTROL DETAILS SHEET E075 FOR LIGHTING CONTROL REQUIREMENTS.
22. ALL EXPOSED LIGHTING CONTROL DEVICES SHALL BE INSTALLED IN LINE WITH THE ADJACENT LIGHT FIXTURES OR EXPOSED EQUIPMENT. COORDINATE WITH ARCHITECT FOR EXACT PLACEMENT.
23. FINAL LOCATION AND CALIBRATION OF PHOTO SENSORS AND OCCUPANCY SENSORS TO BE COORDINATED IN FIELD.
24. CONTRACTOR SHALL MEASURE WINDOW HEAD HEIGHT AND CONFIRM DAYLIT ZONES SHOWN PRIOR TO CIRCUITING LIGHTING FIXTURES IN ROOM(S) WITH DAYLIT ZONES.
25. WHERE ROOM CONTROLLER IS/ARE SHOWN TO BE LOCATED IN A ROOM WITH A HARD LID CEILING, THE ROOM CONTROLLER(S) SHALL BE PROVIDED WITH AN ACCESS PANEL OR SHALL BE LOCATED WITHIN NEAREST ACCESSIBLE CEILING SPACE. COORDINATE WITH ARCHITECT.
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KEYPLAN



REVISIONS

CONSTRUCTION DOCUMENTS



LOS ANGELES COUNTY PUBLIC WORKS
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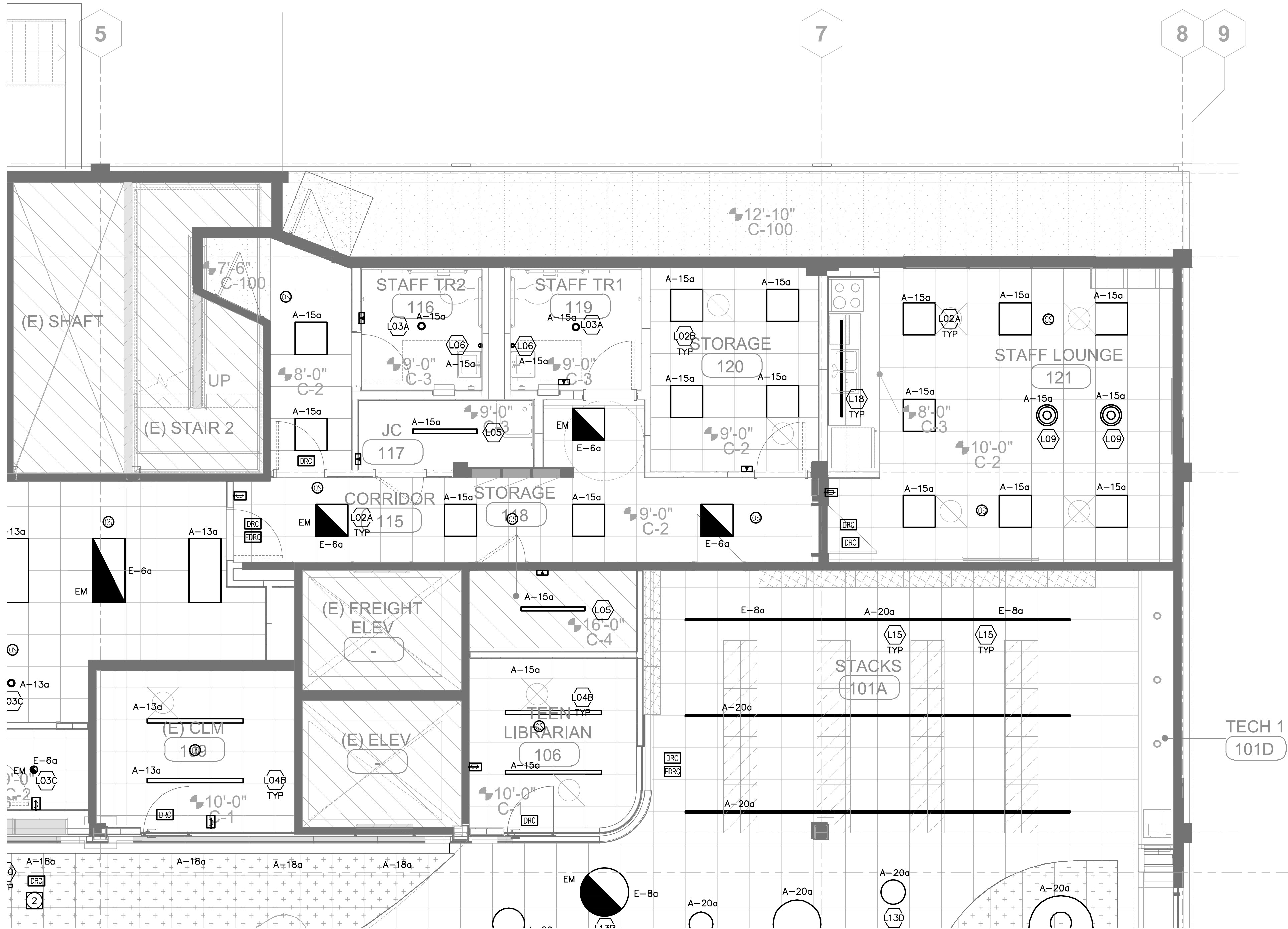
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NAC NO: 161-23025
DRAWN: Author
CHECKED: Checker
DATE: 07/15/2025

FIRST FLOOR
LIGHTING PLAN
SEGMENT A

E3.01A

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Last plotted by chris.roberts Layout1
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1 FIRST FLOOR LIGHTING PLAN - SEGMENT B
SCALE: 1/4" = 1'-0"

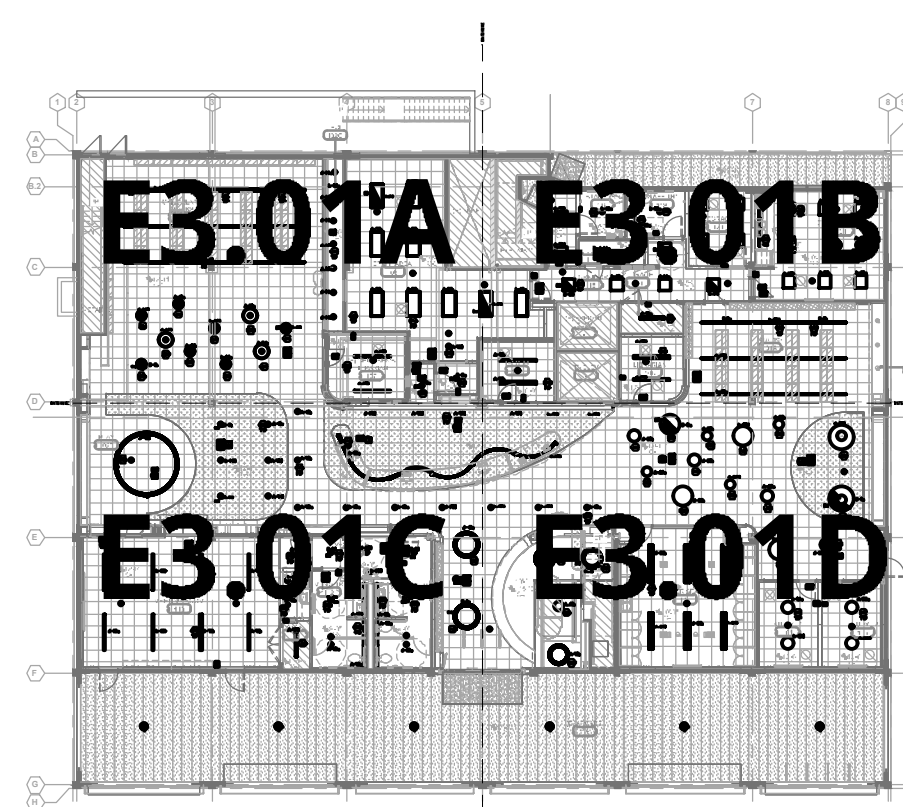
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 - 3 PROVIDE MASTER LIGHTING CONTROL STATION, TOUCH SCREEN CONTROLLER/OVERRIDE STATION. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
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GENERAL NOTES

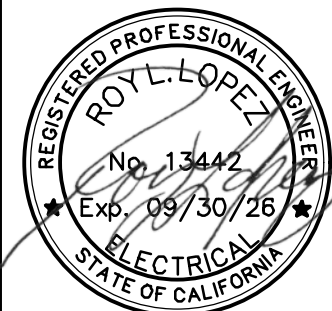
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KEYPLAN



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CHECKED	Checker
DATE	07/15/2025

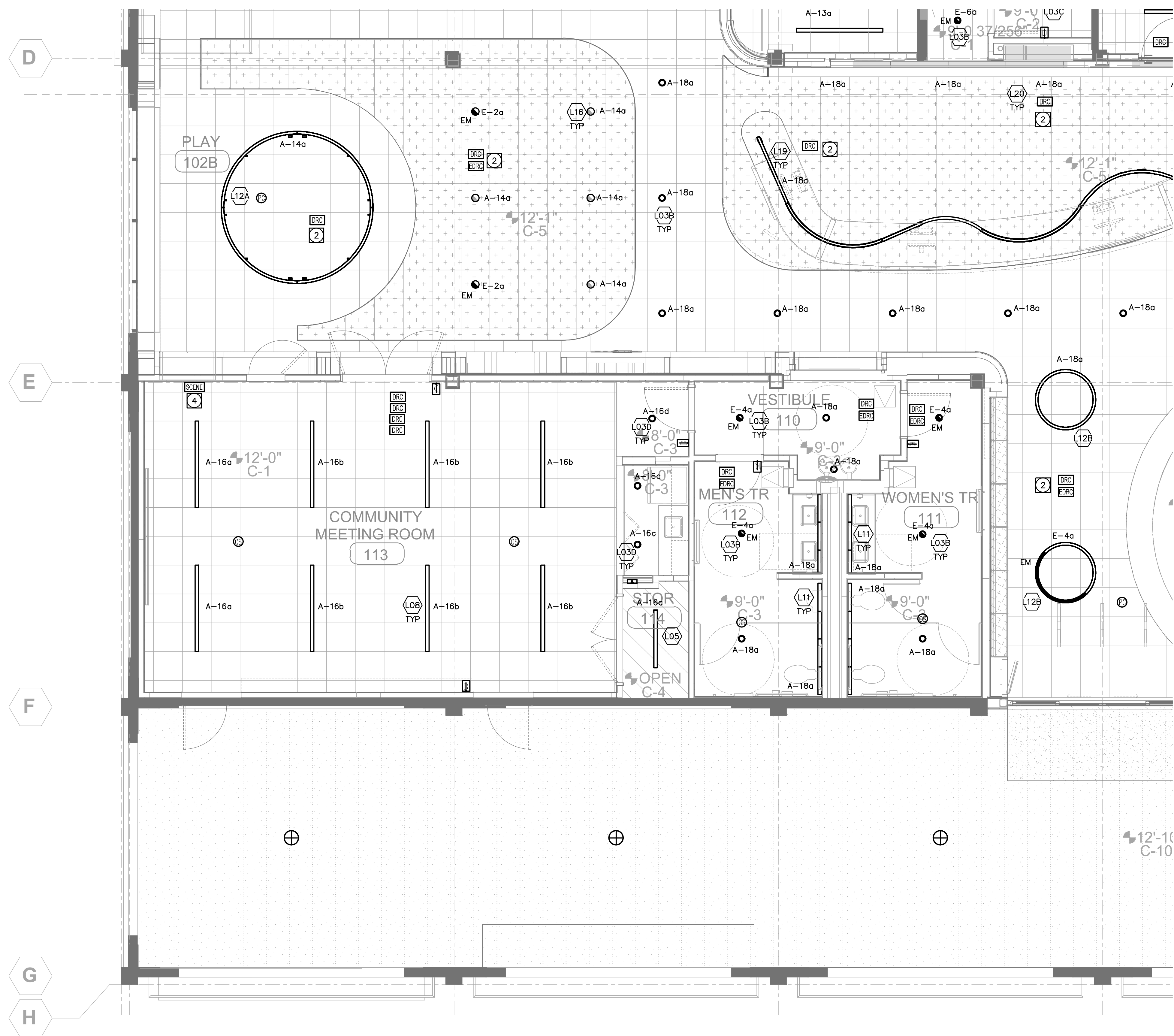
FIRST FLOOR
LIGHTING PLAN
SEGMENT B

E3.01B

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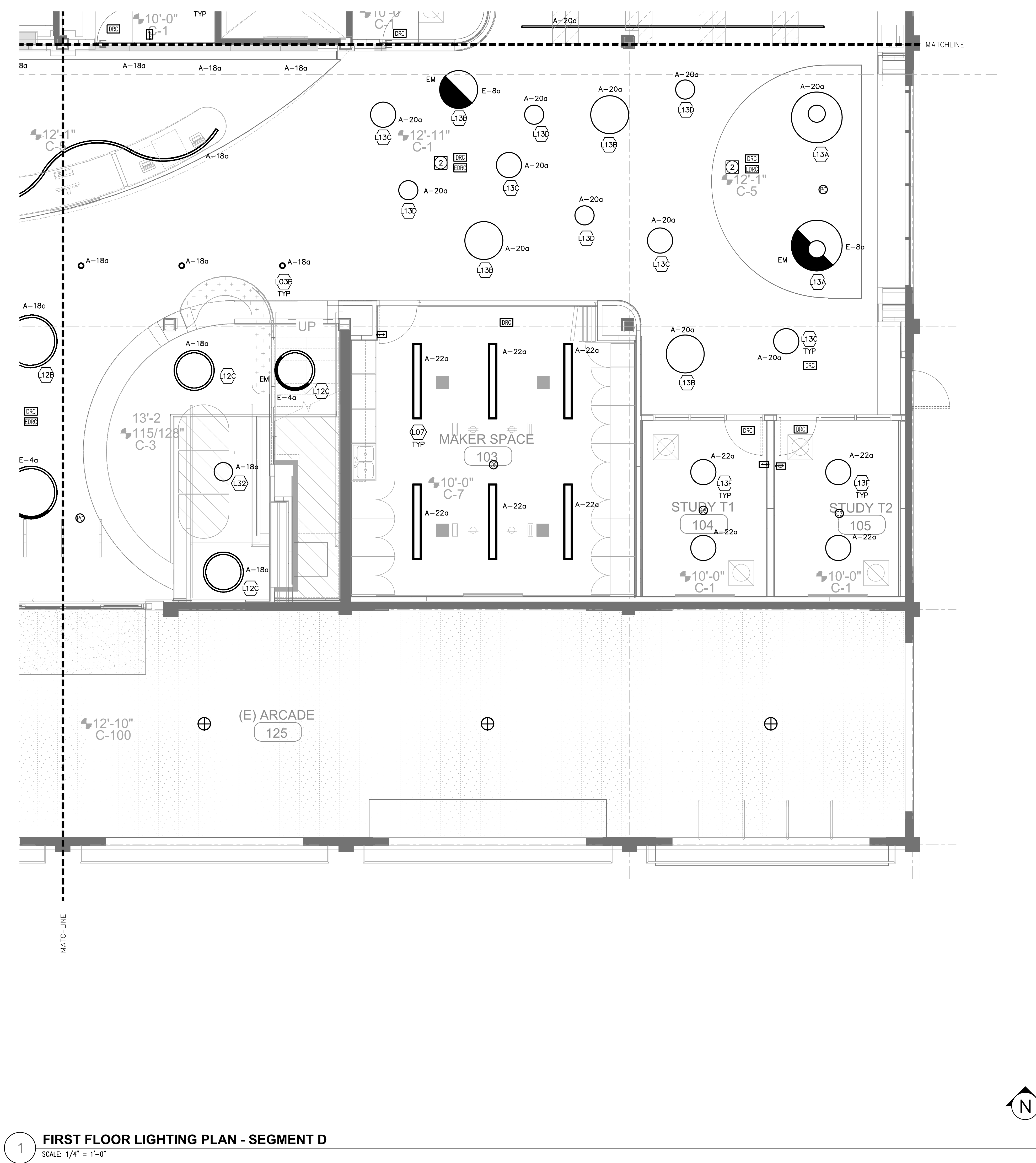
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1 FIRST FLOOR LIGHTING PLAN - SEGMENT C
SCALE: 1/4" = 1'-0"

\\corp.salasobrien.com\p\A\Projects\2022-03451-E-BM-CAD\Electrical\2023-03451_E301D_FIRST FLE LTG - SEG D.dwg 07/15/2025 08:18
Last plotted by chris.roberts Layout1
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1 FIRST FLOOR LIGHTING PLAN - SEGMENT D
SCALE: 1/4" = 1'-0"

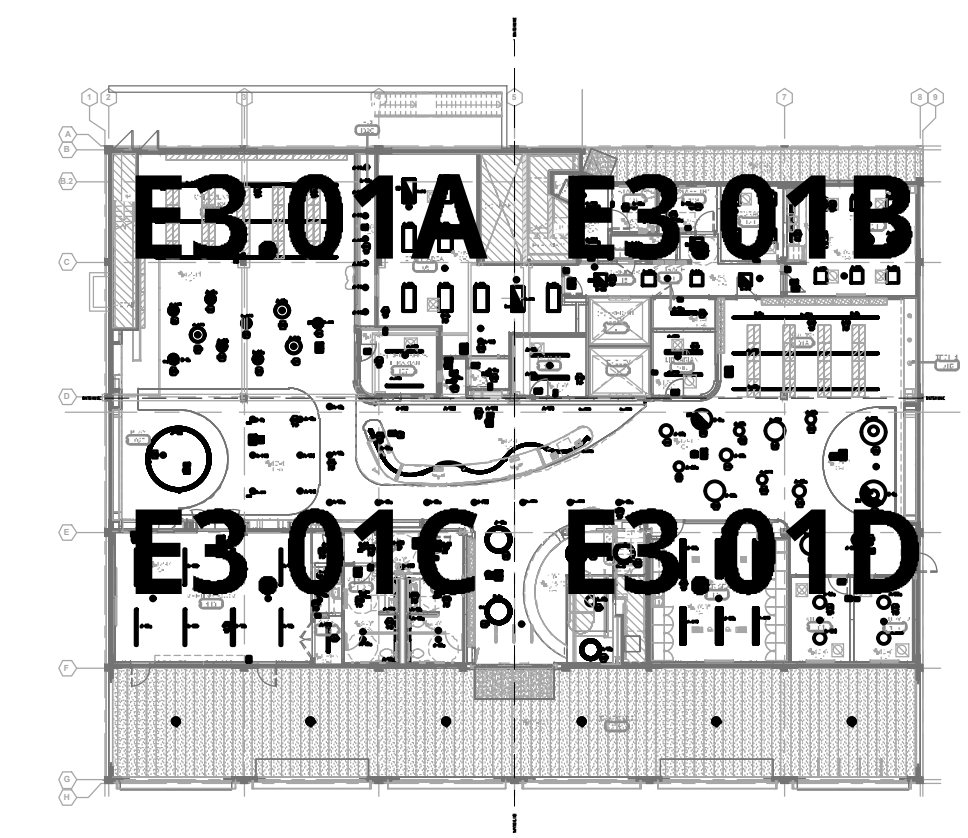
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REVISIONS

CONSTRUCTION DOCUMENTS

Salas O'Brien
Irvine
8825 Research Drive
Irvine, CA 92618
Project: 2023-03451

**REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
No. 13442
Exp. 09/30/26
ELECTRICAL**

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**COUNTY OF LOS ANGELES
CALIFORNIA**

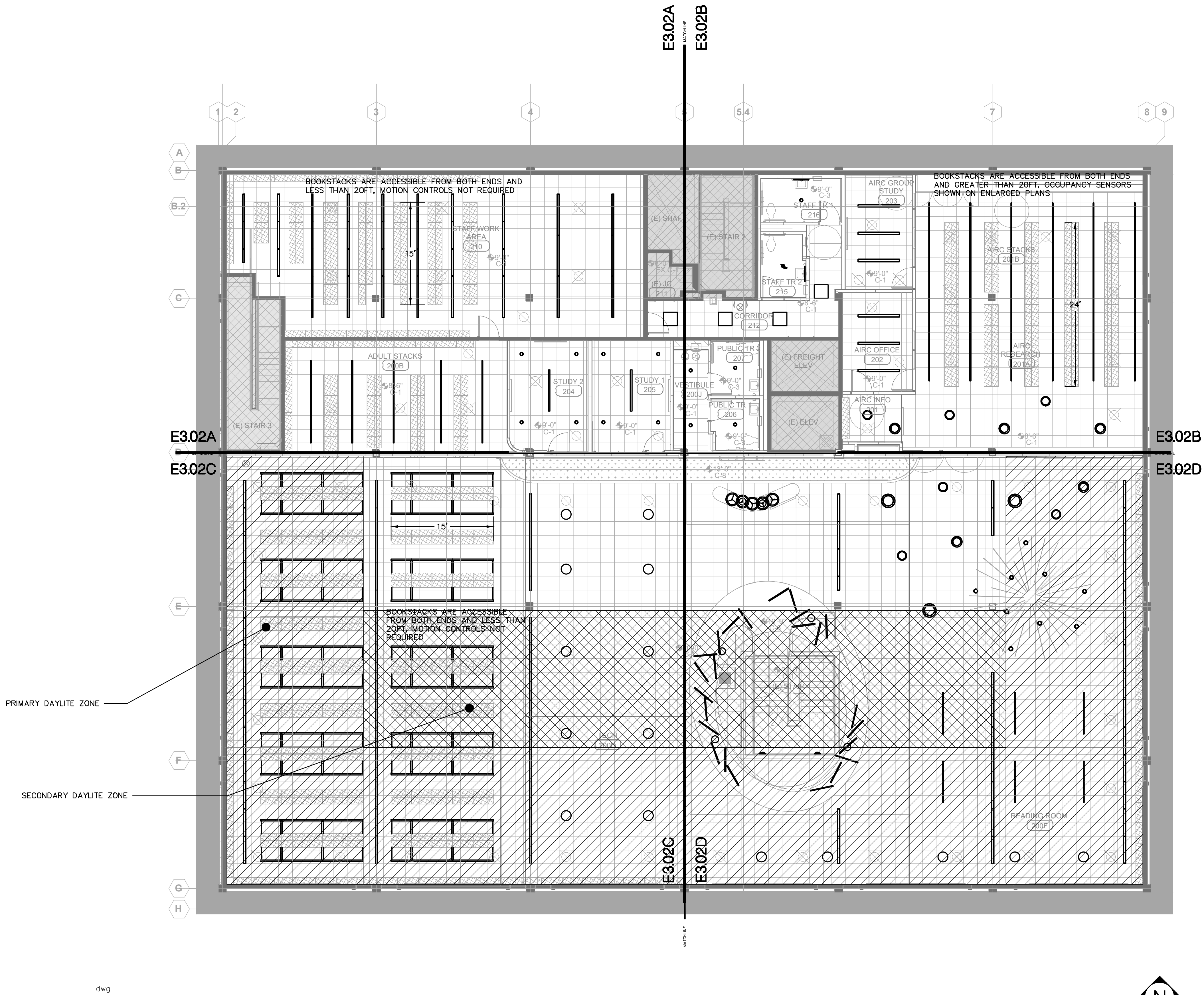
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FIRST FLOOR
LIGHTING PLAN -
SEGMENT D

E3.01D

Last plotted by chris.roberts Layout1 \\corpcad\salasobrien.com\cgs\Projects\2023-03451-BM-CAD\Electrical\2023-03451-E302_2nd floor lg new.dwg 07/15/2025 08:18



1 SECOND FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

KEY NOTES

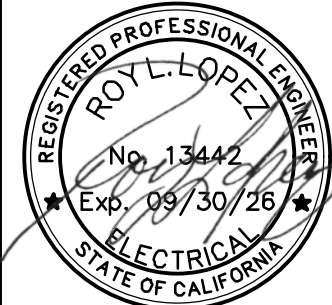
- KEYNOTES ARE TYPICAL FOR ALL LIGHTING SHEETS. INDIVIDUAL KEYNOTES MAY NOT APPEAR ON EACH SHEET.
1. PROVIDE LIGHTING CIRCUIT FOR STACK MOUNTED LIGHTS. COORDINATE EXACTION LOCATION WITH STACK PROVIDER. CIRCUITS TO BE ROUTED THROUGH STACKS TO LIGHTING WIRING CHANNEL AT TOP OF THE STACK.
 2. INDICATED DRC(S) SHALL BE LOCATED ADJACENT TO ELECTRICAL PANEL. DRC(S) SHOWN AT LOCATION FOR CONTROL REFERENCE ONLY. PROVIDE DETAILED LABEL ON JUNCTION BOX(ES) HOUSING DRC(S) INDICATING THE AREA AND LIGHTS THAT THEY CONTROL
 3. PROVIDE MASTER LIGHTING CONTROL STATION, TOUCH SCREEN CONTROLLER/OVERRIDE STATION. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
 4. PROVIDE LIGHTING SCENE CONTROLLER TO CONTROL LIGHTS WITHIN THE ROOM. COORDINATE WITH OWNER FOR DESIRED SCENE PRESETS.

GENERAL NOTES

1. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS.
2. THE EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT SITE PRIOR TO SUBMITTING BID. ALL DEMOLITION, ALTERATION, EXTENSION, RELOCATION, REHABILITATION WORK SHALL BE INCLUDED IN CONTRACT. NO ADDITIONAL ALLOWANCE OR CHANGE ORDERS WILL BE ACCEPTED.
3. CONTRACTOR IS RESPONSIBLE TO RELOCATE OR REMOVE FROM WALLS, CEILINGS, FLOOR SPACES, ETC. ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFERES WITH PLANNED REMODEL WORK. PROVIDE CIRCUIT CONTINUATION REQUIRED FOR ALL EXISTING OUTLETS, FIXTURES, EQUIPMENT, ETC. SCHEDULED TO REMAIN.
4. NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE WALLS.
5. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
6. EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.
7. DEMOLITION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT SITE, AND NOT INTERFERE WITH ITS OPERATION. ANY DEMOLITION WORK TO BE PERFORMED MUST BE PLANNED IN ADVANCE.
8. DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OF DEVICES.
9. RESEAL ALL PENETRATIONS OR OPENING THROUGH WALLS, CEILING, FLOORS, ETC., TO MAINTAIN THE RATING OF STRUCTURE.
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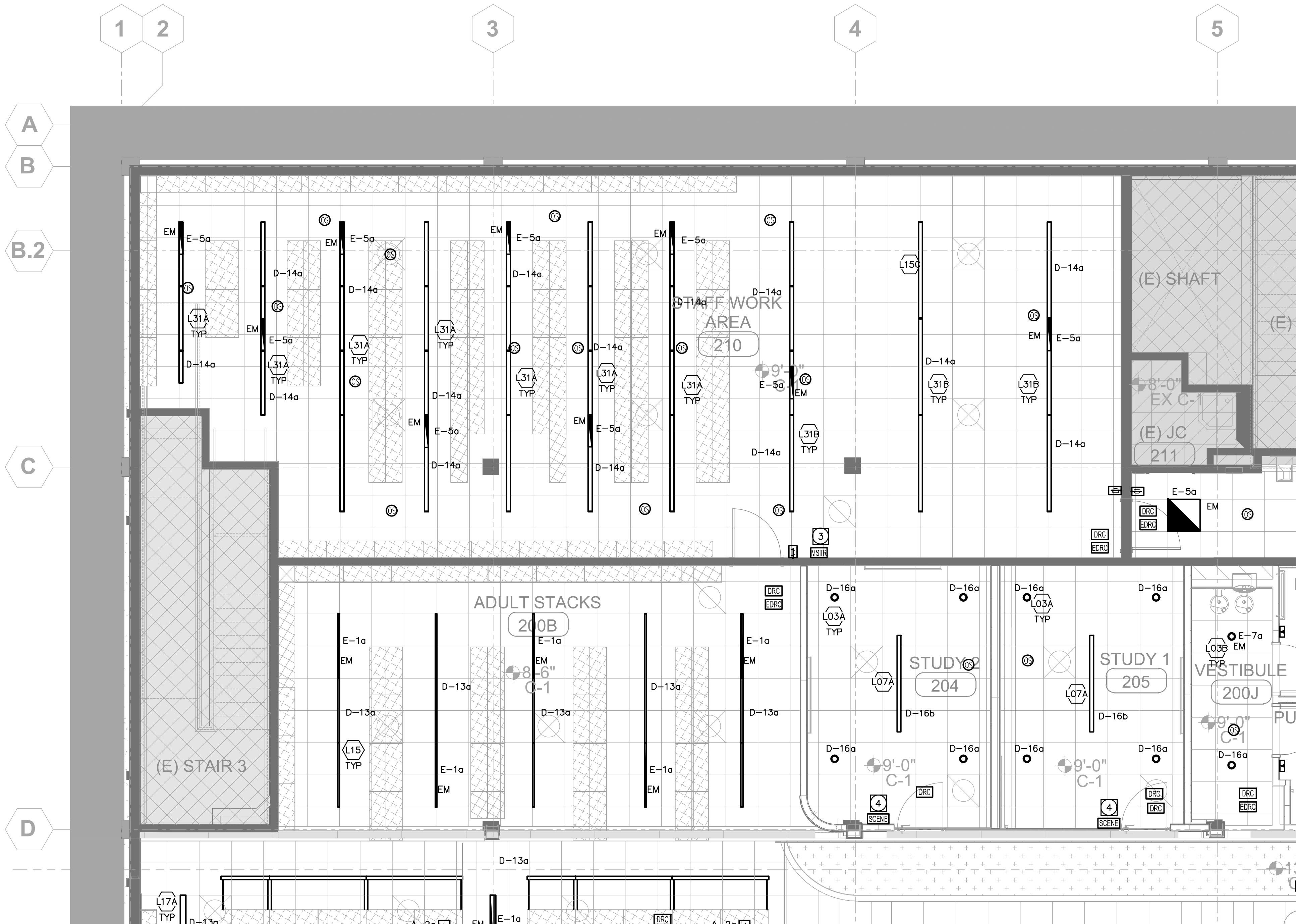
SECOND FLOOR
LIGHTING PLAN

E3.02

Last plotted by chris.roberts Layout1 \\corpcad\salasobrien.com\p\p\Projects\2023-03451-E302A_SECOND FLP.LTG -- SEG A.dwg 07/15/2023 08:19

1 SECOND FLOOR ELECTRICAL PLAN - SEGMENT A

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



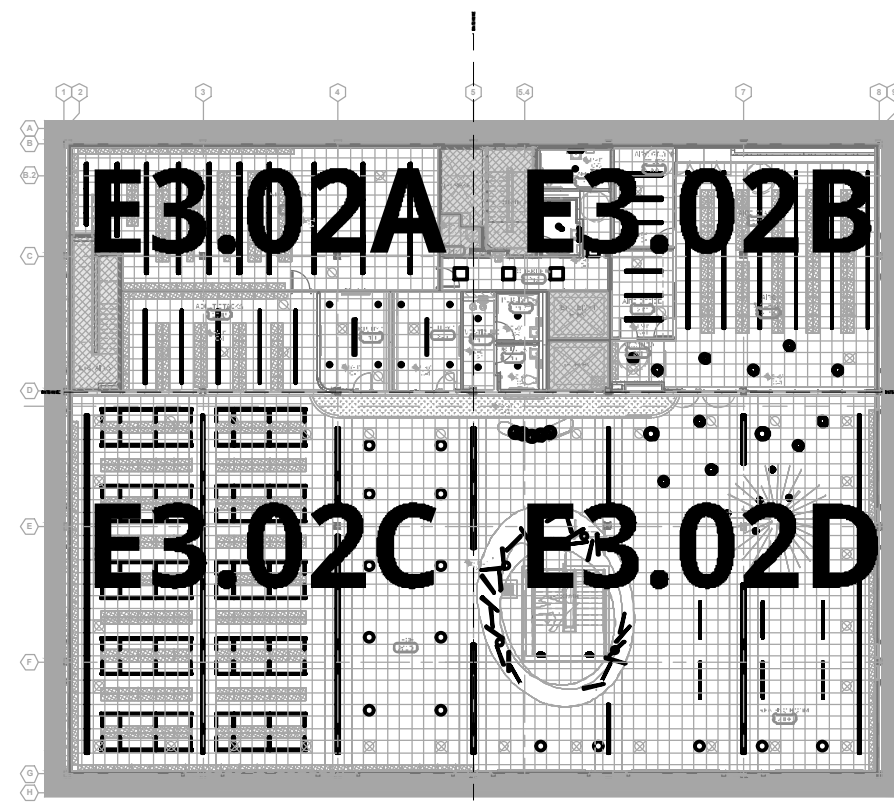
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KEYPLAN



REVISIONS

CONSTRUCTION DOCUMENTS

Salas O'Brien
Irvine
8825 Research Drive
Irvine, CA 92618
Phone: 949.266.0600



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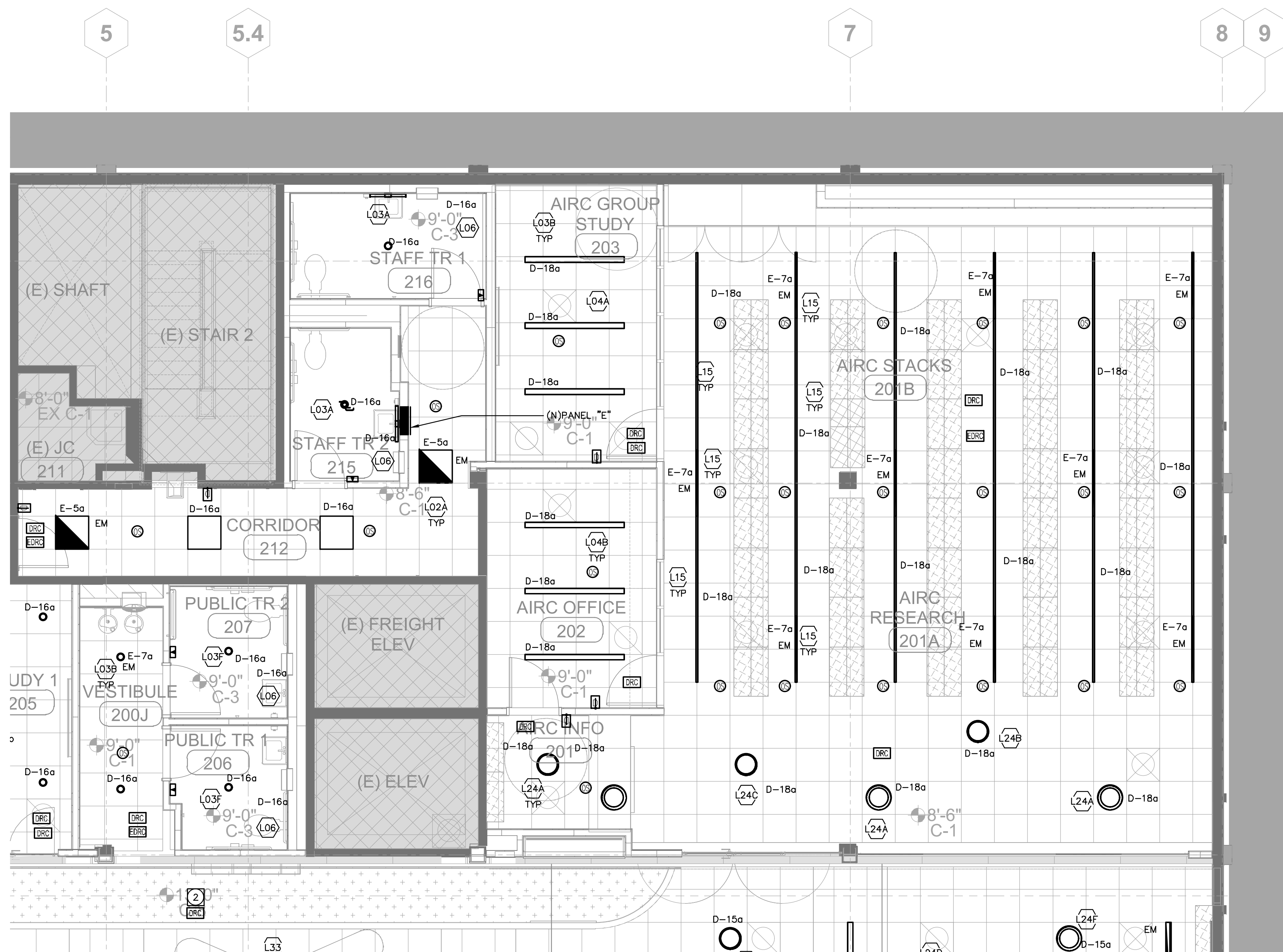
SECOND FLOOR
LIGHTING PLAN
SEGMENT A

E3.02A

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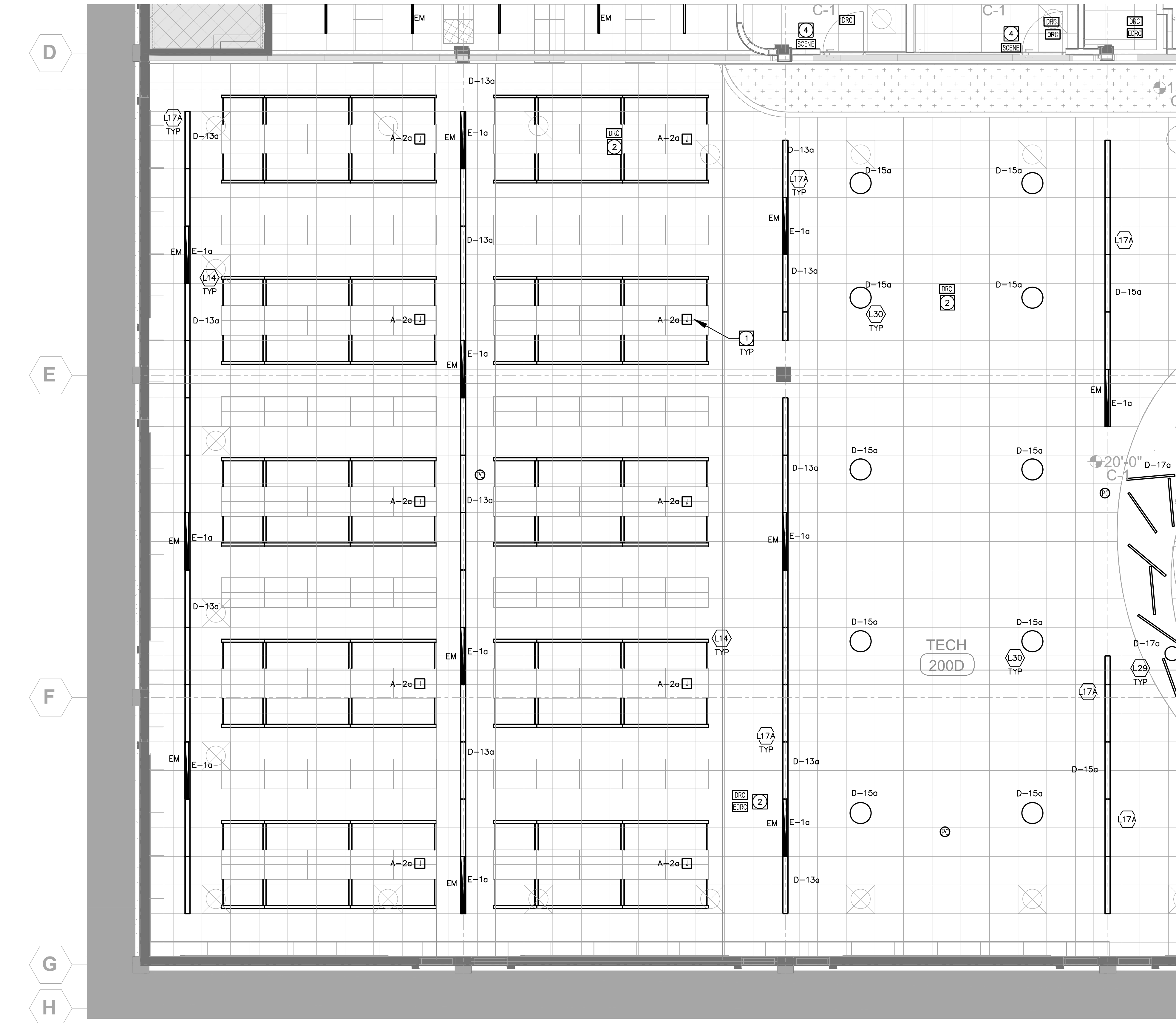
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1 SECOND FLOOR ELECTRICAL PLAN - SEGMENT B
SCALE: 1/4" = 1'-0"

Last plotted by chris.roberts Layout1 \\corp.salasobrien.com\p\p\Projects\2023-03451-BM-CAD\Electrical\2023-03451_E302C-SECOND FLP.LTG - SEG C.dwg 07/15/2025 08:20



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

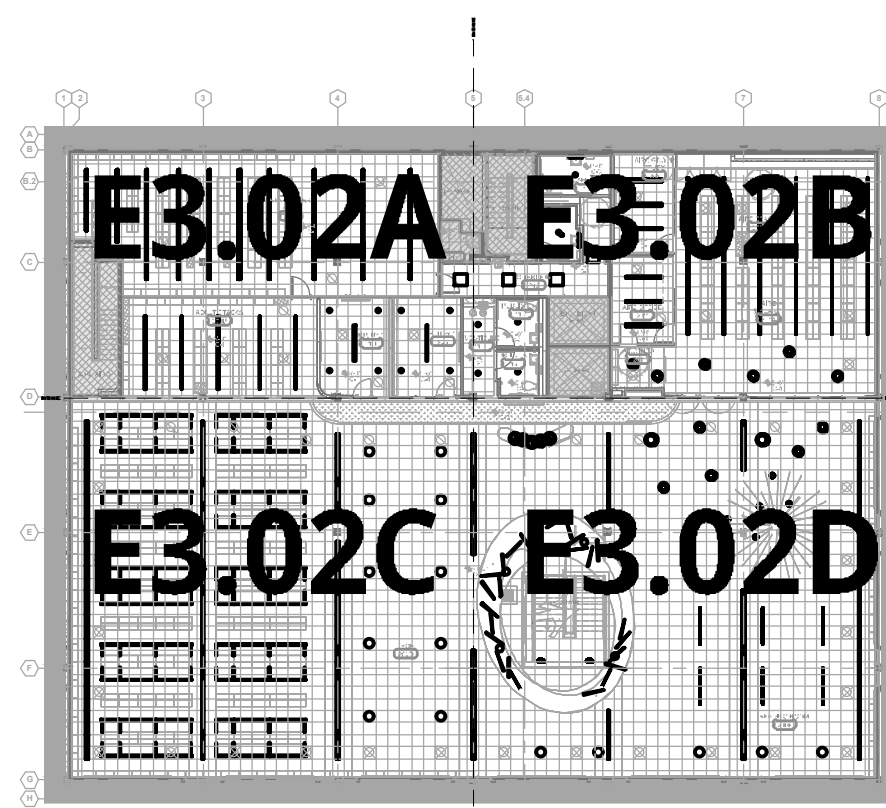
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2. THE EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT SITE PRIOR TO SUBMITTING BID. ALL DEMOLITION, ALTERATION, EXTENSION, RELOCATION, REHABILITATION WORK SHALL BE INCLUDED IN CONTRACT. NO ADDITIONAL ALLOWANCE OR CHANGE ORDERS WILL BE ACCEPTED.
3. CONTRACTOR IS RESPONSIBLE TO RELOCATE OR REMOVE FROM WALLS, CEILINGS, FLOOR SPACES, ETC. ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFERES WITH PLANNED REMODEL WORK. PROVIDE CIRCUIT CONTINUATION REQUIRED FOR ALL EXISTING OUTLETS, FIXTURES, EQUIPMENT, ETC. SCHEDULED TO REMAIN.
4. NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE WALLS.
5. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
6. EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.
7. DEMOLITION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT SITE, AND NOT INTERFERE WITH ITS OPERATION. ANY DEMOLITION WORK TO BE PERFORMED MUST BE PLANNED IN ADVANCE.
8. DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OF DEVICES.
9. RESEAL ALL PENETRATIONS OR OPENING THROUGH WALLS, CEILING, FLOORS, ETC., TO MAINTAIN THE RATING OF STRUCTURE.
10. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IS SALVAGED MATERIALS SHALL REMAIN IN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER AND NEATLY FILE OR STORE THEM AND PROTECT FROM DAMAGED. DISPOSE OF ALL HAZARDOUS MATERIAL PER GUIDELINE OF THE STATE OF CALIFORNIA, DEPARTMENT OF HEALTH SERVICES AND OTHER AGENCIES HAVING JURISDICTION.
11. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT/WIRING RUNS, REUSE AS REQUIRE AND REMOVED ALIQUOT CONDUIT/WIRING IN INACCESSIBLE LOCATIONS (WALLS TO REMAIN) CAN BE ABANDONED IN PLACE. REMOVE UNUSED WIRING.
12. ALL EQUIPMENT SHOWN IS NEW UNLESS OTHERWISE NOTED.
13. ELECTRICAL CONTRACTOR SHALL FULLY COORDINATE WITH OTHER TRADES AND DISCIPLINES FOR EXACT LOCATION OF EQUIPMENT AND REQUIREMENTS PRIOR TO ROUGH IN OF MATERIAL AND DEVICES.
14. VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURES WITH ALL NECESSARY MOUNTING HARDWARE.
15. ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED ISSUE OF THE UNIFORM BUILDING CODE, AS WELL AS ANY LOCAL CODES.
16. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXIT SIGN CHEVRONS AND NUMBER OF FACES PER EXIT SIGN. ANY DISCREPANCIES BETWEEN EXIT SIGNS SHOWN ON THE ELECTRICAL AND ARCHITECTURAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS.
17. WHERE MULTIPLE HOMERUNS ARE SHOWN ON THE PLANS FOR THE SAME CIRCUIT, THEY SHALL BE COMBINED INTO A SINGLE HOMERUN.
18. HALF SHADED FIXTURES OR FIXTURES WITH "EM" INDICATE EMERGENCY LIGHTING FIXTURES. EMERGENCY LIGHTING FIXTURES SHALL BE POWERED BY EMERGENCY LIGHTING PANEL.
19. ALL DIMMING BRANCH CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE/CHANNEL.
20. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRE STOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
21. REFER TO LIGHTING CONTROL DETAILS SHEET E075 FOR LIGHTING CONTROL REQUIREMENTS.
22. ALL EXPOSED LIGHTING CONTROL DEVICES SHALL BE INSTALLED IN LINE WITH THE ADJACENT LIGHT FIXTURES OR EXPOSED EQUIPMENT. COORDINATE WITH ARCHITECT FOR EXACT PLACEMENT.
23. FINAL LOCATION AND CALIBRATION OF PHOTO SENSORS AND OCCUPANCY SENSORS TO BE COORDINATED IN FIELD.
24. CONTRACTOR SHALL MEASURE WINDOW HEAD HEIGHT AND CONFIRM DAYLIT ZONES SHOWN PRIOR TO CIRCUITING LIGHTING FIXTURES IN ROOM(S) WITH DAYLIT ZONES.
25. WHERE ROOM CONTROLLER IS/ARE SHOWN TO BE LOCATED IN A ROOM WITH A HARD LID CEILING, THE ROOM CONTROLLER(S) SHALL BE PROVIDED WITH AN ACCESS PANEL OR SHALL BE LOCATED WITHIN NEAREST ACCESSIBLE CEILING SPACE. COORDINATE WITH ARCHITECT.
26. ALL NECESSARY EQUIPMENT/ COMPONENTS ARE TO BE PROVIDED BY THE CONTRACTOR FOR A COMPLETE AND OPERATING CONTROL SYSTEM, INCLUDING BUT NOT LIMITED TO COMMISSIONING, CABLING, EMERGENCY LIGHTING, OCCUPANCY SENSOR, DAYLIGHT CONTROLS, CONTROLLED RECEPTACLE RELAYS, DIMMING, AND DIMMING CONVERTERS TO MEET ALL IECQ REQUIREMENTS AT TIME OF PERMIT SUBMITTAL AND INSPECTION. ALL COMPONENTS, EXCEPT FOR CONTROL STATIONS, SHALL BE ABOVE THE CEILING, CONCEALED FROM VIEW, OR INSTALLED IN NEMA 1 CABINETS IN CLOSETS OR UTILITY ROOMS.

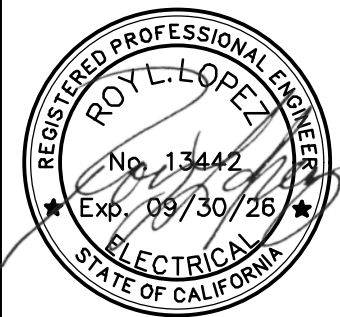
KEYPLAN



REVISIONS

CONSTRUCTION DOCUMENTS

Salas O'Brien
8825 Research Drive
Irvine, CA 92618
Project: 2023025



LOS ANGELES COUNTY PUBLIC WORKS
HUNTINGTON PARK LIBRARY
6518 MISSION AVE
HUNTINGTON PARK, CA 90255



LA COUNTY LIBRARY

NAC

NAC NO: 161-23025
DRAWN: Author
CHECKED: Checker
DATE: 07/15/2025

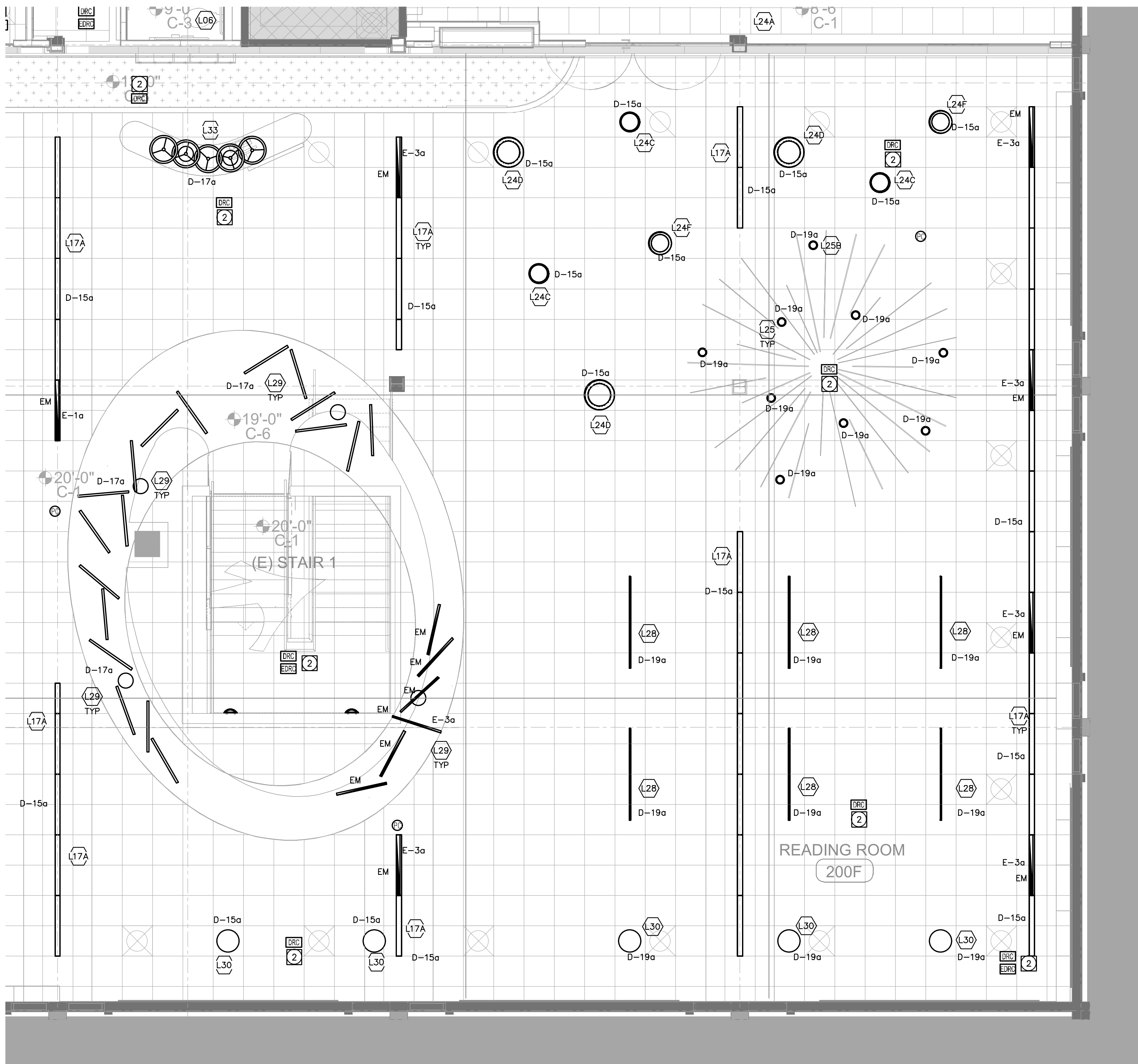
SECOND FLOOR
LIGHTING PLAN -
SEGMENT C

E3.02C

KEYNOTES ARE TYPICAL FOR ALL LIGHTING SHEETS. INDIVIDUAL KEYNOTES MAY NOT APPEAR ON EACH SHEET.

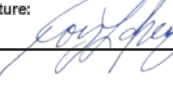
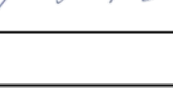
- 1 PROVIDE LIGHTING CIRCUIT FOR STACK MOUNTED LIGHTS. COORDINATE EXACTION LOCATION WITH STACK PROVIDER. CIRCUITS TO BE ROUTED THROUGH STACKS TO LIGHTING WIRING.
- 2 INDICATED DRCS(S) SHALL BE LOCATED ADJACENT TO ELECTRICAL PANEL. DRCS(S) SHOWN A LOCATION FOR CONTROL REFERENCE ONLY. PROVIDE DETAILED LABEL ON JUNCTION BOXES HOUSING DRCS(S) INDICATING THE AREA AND LIGHTS THAT THEY CONTROL.
- 3 PROVIDE MASTER LIGHTING CONTROL STATION, TOUCH SCREEN CONTROLLER/OVERRIDE STATION. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 4 PROVIDE LIGHTING SCENE CONTROLS TO CONTROL LIGHTS WITHIN THE ROOM. COORDINATE WITH OWNER FOR DESIRED SCENE PRESETS.

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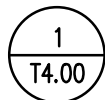


1 SECOND FLOOR LIGHTING PLAN - SEGMENT D
SCALE: 1/4" = 1'-0"

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION								
Indoor Lighting										
CERTIFICATE OF COMPLIANCE		NCEC-0716								
Project Name: Huntington Park Library		Report Page: (Page 4 of 10)								
		Date Prepared: 6/12/2020								
F. INDOOR LIGHTING FIXTURE SCHEDULE										
L13A	L13A	No	NA	133	Mfr. Spec	2	No	266	<input type="checkbox"/>	<input type="checkbox"/>
L13B	L13B	No	NA	56	Mfr. Spec	4	No	224	<input type="checkbox"/>	<input type="checkbox"/>
L13C	L13C	No	NA	35	Mfr. Spec	4	No	140	<input type="checkbox"/>	<input type="checkbox"/>
L13D	L13D	No	NA	19	Mfr. Spec	4	No	76	<input type="checkbox"/>	<input type="checkbox"/>
L13F	L13F	No	NA	76	Mfr. Spec	4	No	304	<input type="checkbox"/>	<input type="checkbox"/>
L14	L14 L14T	No	NA	4	Mfr. Spec	300	No	1,200	<input type="checkbox"/>	<input type="checkbox"/>
L15	L15	No	NA	6.6	Mfr. Spec	402	No	2,653.2	<input type="checkbox"/>	<input type="checkbox"/>
L16	L16	No	NA	25	Mfr. Spec	6	No	150	<input type="checkbox"/>	<input type="checkbox"/>
L17A (L4FT)	L17A (L4FT)	No	NA	133	Mfr. Spec	2	No	266	<input type="checkbox"/>	<input type="checkbox"/>
L17A (L4FT)	L17A (L4FT)	No	NA	152	Mfr. Spec	2	No	304	<input type="checkbox"/>	<input type="checkbox"/>
L17A (L4FT)	L17A (L4FT)	No	NA	171	Mfr. Spec	1	No	171	<input type="checkbox"/>	<input type="checkbox"/>
L17A (L20FT)	L17A (L20FT)	No	NA	190	Mfr. Spec	1	No	190	<input type="checkbox"/>	<input type="checkbox"/>
L17A (L28FT)	L17A (L28FT)	No	NA	266	Mfr. Spec	7	No	1,862	<input type="checkbox"/>	<input type="checkbox"/>
L17A (RPT)	L17A (RPT)	No	NA	76	Mfr. Spec	3	No	228	<input type="checkbox"/>	<input type="checkbox"/>
L18 (L1T)	L18 (L1T)	No	NA	5	Mfr. Spec	6	No	30	<input type="checkbox"/>	<input type="checkbox"/>
L19	L19	No	NA	1	Mfr. Spec	1	No	1	<input type="checkbox"/>	<input type="checkbox"/>
L20	L20	No	NA	1	Mfr. Spec	11	No	11	<input type="checkbox"/>	<input type="checkbox"/>
L21A	L21A	No	NA	11	Mfr. Spec	4	No	44	<input type="checkbox"/>	<input type="checkbox"/>
L21B	L21B	No	NA	34	Mfr. Spec	3	No	302	<input type="checkbox"/>	<input type="checkbox"/>
L21C	L21C	No	NA	49	Mfr. Spec	3	No	147	<input type="checkbox"/>	<input type="checkbox"/>
L24A	L24A	No	NA	23	Mfr. Spec	4	No	92	<input type="checkbox"/>	<input type="checkbox"/>
L24B	L24B	No	NA	32	Mfr. Spec	3	No	96	<input type="checkbox"/>	<input type="checkbox"/>
L24C	L24C	No	NA	18	Mfr. Spec	3	No	54	<input type="checkbox"/>	<input type="checkbox"/>
L24D	L24D	No	NA	49	Mfr. Spec	4	No	196	<input type="checkbox"/>	<input type="checkbox"/>
L24F	L24F	No	NA	32	Mfr. Spec	2	No	64	<input type="checkbox"/>	<input type="checkbox"/>
L25	L25	No	NA	18.6	Mfr. Spec	8	No	148.8	<input type="checkbox"/>	<input type="checkbox"/>
L28	L28	No	NA	22.8	Mfr. Spec	6	No	136.8	<input type="checkbox"/>	<input type="checkbox"/>
L29	L29	No	NA	91.8	Mfr. Spec	1	No	91.8	<input type="checkbox"/>	<input type="checkbox"/>
					Generated Date/Time:		Documentation Software: EnergyPro			
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance					Report Version: 2022.0.0.0		Compliance ID: EnergyPro-S51-L0025-4442			
					Schema Version: 20220101		Report Generated: 2025-06-12 15:08:45			
STATE OF CALIFORNIA										
Indoor Lighting										
CALIFORNIA ENERGY COMMISSION										
CERTIFICATE OF COMPLIANCE										
NCEC-0716										
Project Name: Huntington Park Library										
Report Page: (Page 8 of 10)										
Date Prepared: 6/12/2020										
I. LIGHTING POWER ALLOWANCE; COMPLETE BUILDING OR AREA CATEGORY METHODS										
Other		All Other Space Types		0.4	51.7	20.7	No	No	No	
Breakroom		Kitchen/ Food Preparation		0.55	393.1	216.2	No	No	No	
Computer Room		Copy Room		0.7	818.4	572.9	No	No	No	
Multipurpose		Convention, Conference, Multipurpose and Meeting Center		0.75	2,690.6	2,018	No	No	No	
				TOTALS:	23,032.1	18,402.8	See Tables J, or P for Detail			
J. ADDITIONAL ALLOWANCE; AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM										
(This section does not apply to this project.)										
K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE										
(This section does not apply to this project.)										
L. ADDITIONAL LIGHTING ALLOWANCE; TAILORED WALL DISPLAY										
(This section does not apply to this project.)										
M. ADDITIONAL LIGHTING ALLOWANCE; TAILORED FLOOR AND TASK LIGHTING										
(This section does not apply to this project.)										
N. ADDITIONAL LIGHTING ALLOWANCE; TAILORED DECORATIVE /SPECIAL EFFECTS										
(This section does not apply to this project.)										
O. ADDITIONAL LIGHTING ALLOWANCE; TAILORED VERY VALUABLE MERCHANDISE										
(This section does not apply to this project.)										
					Generated Date/Time:		Documentation Software: EnergyPro			
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance					Report Version: 2022.0.0.0		Compliance ID: EnergyPro-S51-L0025-4442			
					Schema Version: 20220101		Report Generated: 2025-06-12 15:08:45			

STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION NCEC 014	
CERTIFICATE OF COMPLIANCE			
Project Name: Huntington Park Library	Report Page:	Page 11 of 11	
Project Address: 6518 Miles Ave	Date Prepared:	6/11/2023	
<hr/>			
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT			
I certify that this Certificate of Compliance documentation is accurate and complete.			
Documentation Author Name: ABC Company Company: Salim O'Brien Engineers Address: 8825 Research Drive City/State/Zip: Irvine CA 92618		Documentation Author Signature:  Signature: 2023-06-12 CA/ HERS Certification Identification (if applicable): (Phone): (949) 753-1553	
<hr/>			
RESPONSIBLE PERSON'S DECLARATION STATEMENT			
I certify the following under penalty of perjury, under the laws of the State of California:			
<ol style="list-style-type: none"> The information provided on this Certificate of Compliance is true and correct. I am eligible under Division 7 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer). The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of the 24 Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, and specifications submitted to the enforcement agency for approval with this building permit application. I will ensure that a completed signed copy of this Certificate of Compliance will be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable permit applications. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building provider to the building owner or occupancy. 			
Responsible Designer Name: Roy Lopez Company: Salim O'Brien Address: 8825 Research Drive City/State/Zip: Irvine CA 92618		Responsible Designer Signature:  Date Signed: 2023-06-12 License: (Phone):	
<hr/>			
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev2023001		Documentation Software: EnergyPro Compliance ID: EnergyPro-5511-0025-0442 Report Generated: 2023-06-11 15:08:45	

REFERENCES & ABBREVIATIONS



DETAIL REFERENCE



KEYNOTE REFERENCE

4SQ	4" SQUARE
AMPS	AMPS
AC	ABOVE COUNTER
ACDC	ACCESS CONTROL DOOR CONTROLLER
ACPS	ACCESS CONTROL POWER SUPPLY
ADA	AMERICANS WITH DISABILITIES ACT
AFC	ABOVE FINISHED COUNTER
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
ASCC	AVAILABLE SHORT CIRCUIT CURRENT
AWG	AMERICAN WIRE GAUGE
BDF	BUILDING DISTRIBUTION FRAME
BEP	BUILDING ENTRANCE PROTECTION
BLDG	BUILDING
C	CONDUIT
CAT	CATEGORY
CAT 6A	AUGMENTED CATEGORY 6
CBC	CALIFORNIA BUILDING CODE
CCTV	CLOSED CIRCUIT TELEVISION
CEC	CALIFORNIA ELECTRICAL CODE
CFC	CALIFORNIA FIRE CODE
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED CIRCUIT
CKT	CIRCUIT
CLG	CEILING
CMH	COMMUNICATIONS MANHOLE
CHH	COMMUNICATIONS HAND HOLE
CO	CONDUIT ONLY W/PULL ROPE
CSFD	COMBINATION SMOKE/FIRE DAMPER
CT	CURRENT TRANSFORMER
CU	COPPER
(D)	DEMOLISH OR REMOVE
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
(E)	EXISTING TO REMAIN
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EG	EQUIPMENT GROUND (GREEN)
EM	EMERGENCY
EMH	ELECTRIC MANHOLE/MAINTENANCE HOLE
EMS/EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
EMT	ELECTRIC METALLIC TUBING
EOL	END OF LINE
(ER)	EXISTING TO BE RELOCATED
FA	FIRE ALARM
FLA	FULL LOAD AMPS
G	GROUND
GEC	GROUNDING ELECTRODE CONDUCTOR
GFI	GROUND FAULT INTERRUPTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRC/RGC	GALVANIZED RIGID CONDUIT
HP	HORSEPOWER
IDCP	INTRUSION DETECTION CONTROL PANEL
IDF	INTERMEDIATE DISTRIBUTION FRAME
IDAP	INTRUSION DETECTION ALARM PANEL
IDPS	INTRUSION DETECTION POWER SUPPLY
IMC	INTERMEDIATE METALLIC TUBING
K	DEGREES KELVIN
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERES
KW	KILOWATT
KWH	KILOWATT HOUR
LCL	LONG CONTINUOUS LOAD
M	METER
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MCR	MAIN COMPUTER ROOM
MFG/RMFR	MANUFACTURER MOUNTING HEIGHT
MH	MINIMUM
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MM	MULTIMODE
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
(N)	NEW
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
O.D.	OUTSIDE DIAMETER
OFC	OPTICAL FIBER CABLE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PA	PUBLIC ADDRESS
PC	PHOTOCELL
PDU	POWER DISTRIBUTION UNIT
PRI	PRIMARY
PTZ	PAN-TILT-ZOOM
PVC	POLYVINYL CHLORIDE
(R)	RELOCATED
REX	REQUEST TO EXIT
RGS	RIGID GALVANIZED STEEL
RJ	RACK UNIT
SCC	SHORT CIRCUIT CURRENT
SEC	SECONDARY
SM	SINGLEMODE
SPD	SURGE PROTECTIVE DEVICE
SQ	SQUARE
ST	SHUNT TRIP
TEL	TELEPHONE
TGB	TELECOMMUNICATIONS
TVSS	GROUNDING BAR
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTABLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLTS
VA	VOLT AMPS
VD	VOLTAGE DROP
VL	VERIFY LOCATION
WP	WEATHERPROOF
(X)	EXISTING TO BE DEMOLISHED
XFMR	TRANSFORMER

TELECOMMUNICATIONS DEVICE SYMBOLS

SYMBOLS	DESCRIPTION	BACKBOX AND CONDUIT REQUIREMENTS	DEVICE REQUIREMENTS	CABLING REQUIREMENTS
	DATA OUTLET, WALL-MOUNTED (UON)	4"SQ x 2-1/8"D FLUSH-MOUNT BACKBOX AT +18" AFF, SINGLE-GANG MUD-RING, AND MINIMUM 3/4" CONDUIT TO MAIN COMPUTER ROOM, NEAREST ACCESSIBLE CEILING SPACE OR AS INDICATED ON DRAWINGS.	SINGLE-GANG FACEPLATE WITH INDICATED QUANTITY OF CAT 6 RJ-45 JACKS. PROVIDE BLANKS TO FILL SPARE SPACES.	ROUTE CAT 6 4-PAIR UTP CABLES IN QUANTITY DENOTED TO MAIN COMPUTER ROOM AND TERMINATE ON RACK-MOUNTED PATCH PANELS.
	DATA OUTLET MOUNTED IN RECESSED MULTI-SERVICE FLOOR BOX	MINIMUM 1" CONDUIT FROM FLOOR BOX TO MAIN COMPUTER ROOM, NEAREST ACCESSIBLE CEILING SPACE OR AS INDICATED ON DRAWINGS.	SINGLE-GANG FACEPLATE WITH INDICATED QUANTITY OF CAT 6 RJ-45 JACKS. PROVIDE BLANKS TO FILL SPARE SPACES.	ROUTE CAT 6 4-PAIR INDOOR/OUTDOOR-RATED UTP CABLES IN QUANTITY DENOTED TO MAIN COMPUTER ROOM AND TERMINATE ON RACK-MOUNTED PATCH PANELS.
	MODULAR FURNITURE FEED POKE-THRU	CABLING PASS-THROUGH ONLY	CABLING PASS-THROUGH ONLY	CABLING PASS-THROUGH ONLY
	DATA OUTLET FOR CEILING-MOUNTED WIRELESS ACCESS POINT	4"SQ x 2-1/8"D FLUSH-MOUNT CEILING-MOUNTED BACKBOX, SINGLE-GANG MUD-RING AND MINIMUM 3/4" CONDUIT TO MAIN COMPUTER ROOM, NEAREST ACCESSIBLE CEILING SPACE OR AS INDICATED ON DRAWINGS.	SINGLE-GANG FACEPLATE WITH (2) CAT 6 RJ-45 JACKS IN COLOR ORANGE. PROVIDE BLANKS TO FILL SPARE SPACES.	ROUTE CAT 6 4-PAIR UTP CABLES IN QUANTITY DENOTED TO MAIN COMPUTER ROOM AND TERMINATE ON RACK-MOUNTED PATCH PANELS.
	DATA OUTLET FOR WALL-MOUNTED WIRELESS ACCESS POINT. CONFIRM HEIGHT WITH OWNER/ARCHITECT.	4"SQ x 2-1/8"D FLUSH-MOUNT CEILING-MOUNTED BACKBOX, SINGLE-GANG MUD-RING AND MINIMUM 3/4" CONDUIT TO MAIN COMPUTER ROOM, NEAREST ACCESSIBLE CEILING SPACE OR AS INDICATED ON DRAWINGS.	4"SQ x 2-1/8"D RECESSED BACKBOX, SINGLE-GANG MUD-RING AND 1" CONDUIT TO ACCESSIBLE CEILING SPACE. CONFIRM HEIGHT WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.	ROUTE CAT 6 4-PAIR UTP CABLES IN QUANTITY DENOTED TO MAIN COMPUTER ROOM AND TERMINATE ON RACK-MOUNTED PATCH PANELS.

ACCESS CONTROL SYSTEM (OWNER-FURNISHED OWNER-INSTALLED)

SYMBOLS	DESCRIPTION	ROUGH-IN REQUIREMENTS	DEVICE REQUIREMENTS	CABLING REQUIREMENTS
	CARD READER	REFERENCE SHEET T0.05	PER OWNER	REFERENCE SHEET T0.07
	ELECTRONIC LOCK	REFERENCE SHEET T0.05	-	REFERENCE SHEET T0.07
	REQUEST-TO-EXIT SENSOR	REFERENCE SHEET T0.05	PER OWNER	REFERENCE SHEET T0.07
	DOOR CONTACT (SEPARATE FROM INTRUSION DETECTION)	REFERENCE SHEET T0.05	PER OWNER	REFERENCE SHEET T0.07
	CONTROL PANEL	-	-	-
	POWER SUPPLY	-	-	-

INTRUSION DETECTION AND ALARM SYSTEM (OWNER-FURNISHED OWNER-INSTALLED)

SYMBOLS	DESCRIPTION	ROUGH-IN REQUIREMENTS	DEVICE REQUIREMENTS	CABLING REQUIREMENTS
	MOTION DETECTOR, CEILING-MOUNTED	REFERENCE SHEET T0.06	PER OWNER	REFERENCE SHEET T0.07
	MOTION DETECTOR, WALL-MOUNTED	REFERENCE SHEET T0.06	PER OWNER	REFERENCE SHEET T0.07
	DOOR CONTACT (SEPARATE FROM ACCESS CONTROL SYSTEM)	REFERENCE SHEET T0.06	PER OWNER	REFERENCE SHEET T0.07
	KEYPAD	REFERENCE SHEET T0.06	BOSCH MODEL D56	REFERENCE SHEET T0.07
	GLASS BREAK SENSOR	REFERENCE SHEET T0.06	PER OWNER	REFERENCE SHEET T0.07
	INTRUSION ALARM SIREN/SPEAKER, CEILING-MOUNTED	REFERENCE SHEET T0.06	PER OWNER	REFERENCE SHEET T0.07
	EXIT ALARM	-	DETEX EXIT ALARM	-
	CONTROL PANEL	-	PER OWNER	-
	POWER SUPPLY	-	PER OWNER	-

CCTV SYSTEM SYSTEM (OWNER-FURNISHED OWNER-INSTALLED)

SYMBOLS	DESCRIPTION	ROUGH-IN REQUIREMENTS	DEVICE REQUIREMENTS	CABLING REQUIREMENTS
	IP CAMERA SINGLE-LENS, WALL-MOUNTED	SEE ROUGH-IN NOTE 1 ON THIS SHEET	PER OWNER	REFERENCE SHEET T0.07
	IP CAMERA SINGLE-LENS, CEILING-MOUNTED	SEE ROUGH-IN NOTE 1 ON THIS SHEET	PER OWNER	REFERENCE SHEET T0.07
	IP CAMERA 360-DEGREE, CEILING-MOUNTED	SEE ROUGH-IN NOTE 1 ON THIS SHEET	PER OWNER	REFERENCE SHEET T0.07

PUBLIC ADDRESS SYSTEM (OWNER-FURNISHED OWNER-INSTALLED)

SYMBOLS	DESCRIPTION	ROUGH-IN REQUIREMENTS	DEVICE REQUIREMENTS	CABLING REQUIREMENTS
	PA SPEAKER, CEILING-MOUNTED	SEE ROUGH-IN NOTE 1 ON THIS SHEET	PER OWNER	REFERENCE SHEET T0.07
	PA TERMINAL CABINET WITH WIRING TERMINATION BLOCKS AND HEAD-END EQUIPMENT	-	PER OWNER	REFERENCE SHEET T0.07
	PA POWER SUPPLY	-	PER OWNER	REFERENCE SHEET T0.07

SYNCHRONIZED CLOCK SYSTEM (OWNER-FURNISHED OWNER-INSTALLED)

SYMBOLS	DESCRIPTION	ROUGH-IN REQUIREMENTS	DEVICE REQUIREMENTS	CABLING REQUIREMENTS
	SYNCHRONIZED WIRED ANALOG CLOCK	SEE ROUGH-IN NOTE 1 ON THIS SHEET. INSTALL CLOCK AT +8'-0" AFF (UON)	PYRAMID TIMETRAX SYNC MODEL 5200	SEE FLOOR PLAN
	MASTER CLOCK CONTROLLER & POWER SUPPLY	-	PYRAMID TIMETRAX SYNC 7000	-

PEOPLE COUNTER SYSTEM SYMBOLS

SYMBOLS	DESCRIPTION	ROUGH-IN REQUIREMENTS	DEVICE REQUIREMENTS	CABLING REQUIREMENTS
	PEOPLE COUNTER SENSOR	SEE ROUGH-IN NOTE 1 ON THIS SHEET	EXISTING SYSTEM TO BE RE-USED. COORDINATE WORK WITH OWNER.	SEE FLOOR PLAN

DOOR RELEASE AND DOOR VIDEO INTERCOM SYSTEM SYMBOLS

SYMBOLS	DESCRIPTION	ROUGH-IN REQUIREMENTS	DEVICE REQUIREMENTS	CABLING REQUIREMENTS
	RESTROOM DOOR RELEASE SWITCH	SEE FLOOR PLAN	PER OWNER	REFERENCE SHEET T0.07
	RESTROOM DOOR RELEASE BUTTON	SEE ROUGH-IN NOTE 1 ON THIS SHEET	PER OWNER	REFERENCE SHEET T0.07
	DOOR RELEASE POWER SUPPLY	-	PER OWNER	TBD
	VIDEO INTERCOM STATION	SEE ROUGH-IN NOTE 2 ON THIS SHEET	PER OWNER	REFERENCE SHEET T0.07
	VIDEO INTERCOM BASE STATION	SEE ROUGH-IN NOTE 2 ON THIS SHEET	PER OWNER	REFERENCE SHEET T0.07

AUDIO VIDEO SYSTEM

SYMBOLS	DESCRIPTION	ROUGH-IN REQUIREMENTS	DEVICE REQUIREMENTS	CABLING REQUIREMENTS
	WALL-MOUNTED AV AND DATA DEVICES	SEE SHEETS T0.9 AND T0.10	SEE SHEETS T0.9 AND T0.10	SEE SHEETS T0.9 AND T0.10
	AV AND DATA DEVICES MOUNTED IN RECESSED FLOOR BOX OR POKE-THRU	SEE SHEETS T0.9 AND T0.10	SEE SHEETS T0.9 AND T0.10	SEE SHEETS T0.9 AND T0.10
	POLY TC10 CONTROL PANEL	SEE SHEETS T0.9 AND T0.10	SEE SHEETS T0.9 AND T0.10	SEE SHEETS T0.9 AND T0.10
	BLUETOOTH IN-WALL RECEIVER	SEE SHEETS T0.9 AND T0.10	SEE SHEETS T0.9 AND T0.10	SEE SHEETS T0.9 AND T0.10

DRAWING INDEX

T0.01	TECHNOLOGY COVER SHEET
T0.02	TECHNOLOGY GENERAL NOTES AND SPECIFICATIONS
T0.03	TECHNOLOGY DETAILS
T0.04	TECHNOLOGY DETAILS
T0.05	ACCESS CONTROL DETAILS AND NOTES
T0.06	INTRUSION DETECTION DETAILS AND NOTES
T0.07	CCTV SYSTEM NOTES AND DETAILS
T0.08	LOW VOLTAGE CABLE SCHEDULES
T0.09	AUDIO VISUAL SYSTEM NOTES AND DETAILS
T0.10	AUDIO VISUAL SYSTEM NOTES AND DETAILS
T2.01	BASEMENT AND LEVEL 1 LOW VOLTAGE DEMOLITION PLANS
T2.02	LEVEL 2 AND LEVEL 3 LOW VOLTAGE DEMOLITION PLANS
T3.11	TECHNOLOGY BASEMENT AND LEVEL 1 PLANS
T3.12	TECHNOLOGY LEVEL 2 AND LEVEL 3 PLANS
T4.00	TECHNOLOGY ENLARGED MCR PLANS & RACK ELEVATION

ROUGH-IN NOTES:

- PROVIDE 4" SQUARE x 2-1/8"D RECESSED BACKBOX, SINGLE-GANG MUD-RING AND 3/4" CONDUIT TO MAIN COMPUTER ROOM, NEAREST ACCESSIBLE CEILING SPACE OR AS SHOWN ON DRAWINGS.
- PROVIDE MANUFACTURER-RECOMMENDED BACKBOX WITH 3/4" MINIMUM CONDUIT TO MAIN COMPUTER, ROOM, NEAREST ACCESSIBLE CEILING SPACE OR AS SHOWN ON DRAWINGS.

RACEWAY SYMBOLS

SYMBOLS	DESCRIPTION
	HOMERUN TO DESTINATION AS INDICATED
	INDICATES CONDUIT DROP
	INDICATES CONDUIT RISER
	INDICATES CONDUIT STUB
	INDICATES CONDUIT CONTINUATION
	CONDUIT ROUTED UNDERGROUND
	SURFACE METAL RACEWAYS
	4"SQ x 2-1/8"D JUNCTION BOX
	PULL BOX

TELECOMMUNICATIONS EQUIPMENT SYMBOLS

SYMBOL	DESCRIPTION
	19"W x 7'-0"H 2-POST EQUIPMENT RACK
	6"W DOUBLE-SIDED VERTICAL CABLE MANAGER (VCM)
	110 WIRING BLOCK
	10" TELECOM GROUNDING BUSBAR (TGB)
	#6 AWG BONDING STRAP OR EQUIVALENT
	EQUIPMENT GROUND PER NEC, EIA/TIA STANDARDS
	LADDER-TYPE CABLE TRAY (N MDF ROOM ONLY). SEE DRAWINGS FOR SIZE AND LAYOUT.
	MESH-TYPE CABLE TRAY. SEE DRAWINGS FOR SIZE AND LAYOUT.

MATV SYSTEM

SYMBOLS	DESCRIPTION	ROUGH-IN REQUIREMENTS	DEVICE REQUIREMENTS	CABLING REQUIREMENTS
	MATV SYSTEM EQUIPMENT	N/A	SEE DETAIL 2 ON SHEET T008	SEE DETAIL 2 ON SHEET T008
	TV OUTLET (SINGLE-GANG PLATE WITH 4"SQ BACKBOX WITH 1"COAX F-CONNECTOR MODULE)	SEE DETAIL 2 ON SHEET T008	SEE DETAIL 2 ON SHEET T008	SEE DETAIL 2 ON SHEET T008

REVISIONS

CONSTRUCTION DOCUMENTS

Salas O'Brien

848.731.1883

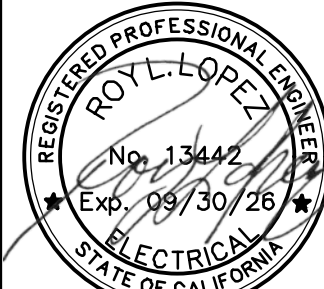
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Irving, CA 92618

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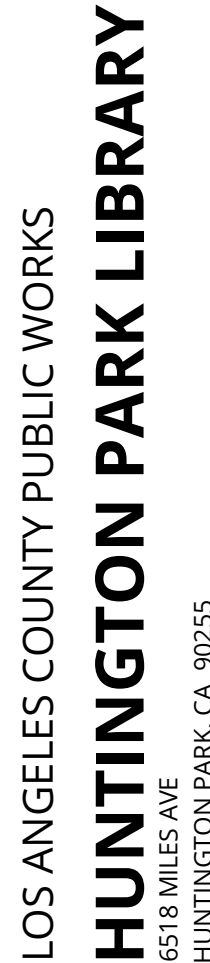
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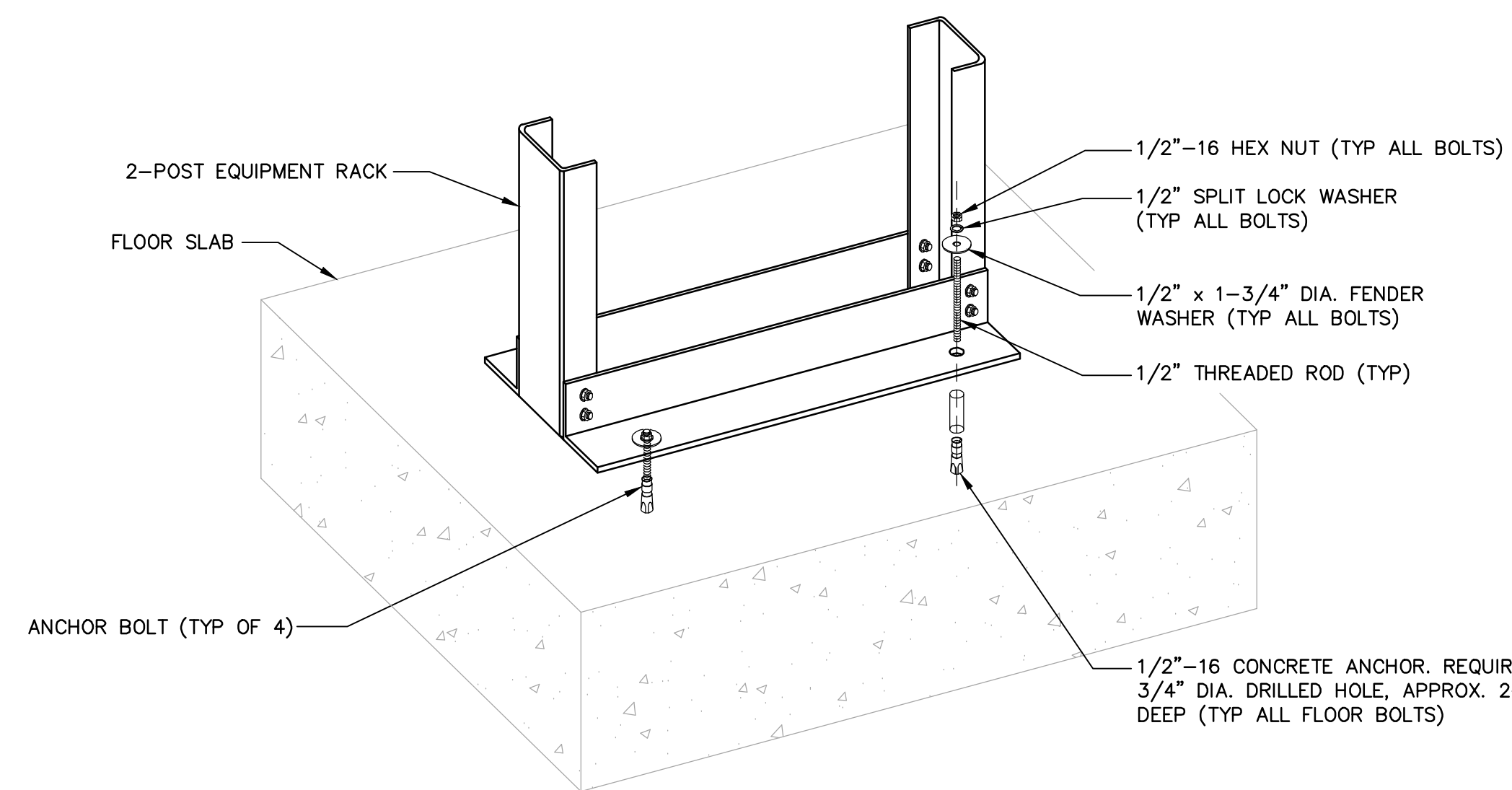
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GENERAL NOTES	TECHNOLOGY DESIGN-BUILD CRITERIA	SECURITY SYSTEM DESIGN-BUILD CRITERIA, GENERAL NOTES & SPECIFICATIONS
<div><div>1. PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO ACHIEVE A COMPLETE AND OPERATIONAL SYSTEM.</div><div>2. COORDINATE AND OBTAIN APPROVALS FROM ALL RESPECTIVE UTILITY COMPANIES AS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION.</div><div>3. INSTALL RACEWAY SYSTEMS AS FOLLOWS:<div><div>A. USE RIGID GALVANIZED STEEL IN ALL AREAS EXPOSED TO WEATHER OR PHYSICAL DAMAGE.</div><div>B. USE FLEXIBLE METALLIC CONDUIT ONLY IN AREAS AS PERMITTED BY LOCAL CODE AUTHORITY. USE SEAL-TITE IN AREAS EXPOSED TO WEATHER.</div><div>C. USE COMPRESSION TYPE FITTINGS FOR ELECTRICAL METALLIC TUBING WHERE UTILIZED.</div><div>D. USE P.V.C. CONDUIT UNDERGROUND WITH CODE SIZED GROUND, CONDUIT RISERS AND STUBS ABOVE GRADE SHALL BE I.M.C. WITH HALF-LAPPED TAPE COVERING OR P.V.C.</div></div></div><div>4. CONDUIT FOR ROOF MOUNTED EQUIPMENT SHALL BE ROUTED BELOW THE ROOF WITHIN THE BUILDING.</div><div>5. ALL DEVICE LOCATIONS SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS, AS WELL AS EQUIPMENT SUPPLIER REQUIREMENTS, PRIOR TO ANY ROUGH-IN WORK.</div><div>6. ALL DEVICES SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH OSHA STANDARDS AND ALL LOCAL, STATE, AND NATIONAL ELECTRICAL CODES.</div><div>7. CONTRACTOR SHALL PROVIDE DEVICE MOUNTING KITS AS REQUIRED TO SUIT THE EXACT TYPE OF CEILING OR SURFACE TO WHICH THEY ARE MOUNTED.</div><div>8. THESE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE INTENT OF EQUIPMENT, DEVICES, ETC. TO BE CONNECTED AND THE CIRCUITS TO WHICH THEY ARE TO BE CONNECTED TO. CONTRACTOR SHALL INSTALL ALL CONDUIT, J-BOXES, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.</div><div>9. ALL EXTERIOR EQUIPMENT SHALL BE WEATHERPROOF.</div><div>10. CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL GOVERNING CODES.</div><div>11. ALL EQUIPMENT SHALL BE NEW AND BEAR A NRTL ("UL" OR "ETL") LABEL. UON.</div><div>12. CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS.</div><div>13. COMPLETE SYSTEM INSTALLATION SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF (1) YEAR, UON.</div><div>14. CONTRACTOR SHALL VISIT SITE PRIOR TO BID DATE, TO VERIFY ALL EXISTING CONDITIONS TO BE ENCOUNTERED IN THE INSTALLATION OF ALL NEW EQUIPMENT AND DEVICES. EXACT INSTALLATION METHOD AND REQUIREMENTS SHALL BE VERIFIED AND DETERMINED PRIOR TO BID DATE. CONTRACTORS SHALL IMMEDIATELY NOTIFY THIS ENGINEER OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT SHOWN ON THESE DRAWINGS. SUBMITTAL OF BID INDICATES CONTRACTOR IS AWARE OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED.</div><div>15. ALL EQUIPMENT CHARACTERISTICS, LOCATIONS, AND CONNECTION REQUIREMENTS SHALL BE VERIFIED PRIOR TO ANY ROUGH-IN WORK.</div><div>16. CONTRACTOR SHALL FURNISH SHOP DRAWINGS FOR APPROVAL. SEE "SUBMITTALS" REQUIREMENTS UNDER "SECURITY SYSTEM DESIGN-BUILD CRITERIA" ON THIS SHEET. THESE ITEMS SHALL BE APPROVED BY THIS OFFICE PRIOR TO ANY COMMENCEMENT OF PLACING ORDERS OR PERFORMING ANY ROUGH-IN WORK.</div><div>17. PENETRATIONS OF ALL FIRE-RATED WALLS OR CEILINGS SHALL BE FIRE-RATED IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES.</div><div>18. PROVIDE THE OWNER AND ENGINEER ONE (1) SET OF ELECTRICAL "AS-BUILTS" AT THE COMPLETION OF JOB.</div></div>	<div><div>1. ALL GENERAL NOTES AND SPECIFICATIONS CONTAINED HEREIN APPLY TO THE GENERAL CONTRACTOR AND AWARDED DESIGN-BUILD CONTRACTOR(S) BIDDING THESE PLANS. THE GENERAL CONTRACTOR (GC) AND OWNER ARE RESPONSIBLE FOR PROVIDING THIS SET OF PLANS TO ALL RELEVANT PARTIES (ELECTRICAL CONTRACTOR, DESIGN-BUILD LOW-VOLTAGE CONTRACTOR(S), SYSTEM INTEGRATORS, ETC.) IN ORDER TO DEVELOP AN ACCURATE, ALL-INCLUSIVE BID, AND TO ENSURE A COMPLETE AND FULLY-OPERATIONAL SYSTEM IS DELIVERED, INCLUDING ALL REQUIRED CONDUIT PATHWAYS, POWER SUPPLIES, CONNECTIONS, ETC.</div><div>2. <u>SCOPE OF WORK:</u> THE SCOPE OF WORK FOR THIS CONTRACTOR SHALL CONSIST OF DELIVERING A COMPLETE DESIGN-BUILD INSTALLATION BASED ON THIS SET OF PLANS FOR TECHNOLOGY, AUDIO VISUAL, CCTV, INTRUSION DETECTION AND ACCESS CONTROL SYSTEMS. SELECTED DESIGN-BUILD CONTRACTOR(S) SHALL UTILIZE THIS SET OF PLANS AS A BASIS-OF-DESIGN TO BE USED BY AWARDED CONTRACTOR(S) IN DEVELOPING A FINAL SET OF CONSTRUCTION DOCUMENTS AND SPECIFICATIONS FOR THE SYSTEMS IDENTIFIED ABOVE.</div><div>3. CONTRACTOR SHALL PROVIDE ALL REQUIRED MATERIAL, INCLUDING BUT NOT LIMITED TO, LOW-VOLTAGE CABLING, HARDWARE, PATHWAYS, ACCESSORIES, MODULES, DEVICES, CONTROLLERS, POWER SUPPLIES, ETC. WHETHER INDICATED HEREIN OR NOT, AND LABOR FOR A COMPLETE AND OPERATIONAL SYSTEM. FINAL SYSTEM SHALL ACCOMMODATE THE TOTAL NUMBER OF DEVICE LOCATIONS AND/OR CONTROL POINTS IDENTIFIED AS A MINIMUM AND MEET THE SYSTEM DESIGN INTENT OF THESE DOCUMENTS.</div><div>4. THE SYSTEM(S) PLANS CONTAINED IN THESE SHEETS ARE CONCEPTUAL ONLY AND ARE BASED ON INITIAL OWNER INPUT RECEIVED TO DATE AND DESIGN TEAM INFORMATION COORDINATED THUS FAR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADAPTING THE SYSTEMS AND DESIGN INTENT ILLUSTRATED WITHIN THIS DESIGN-BUILD CRITERIA TO THE ACTUAL CONDITIONS OF THIS PROJECT AND THE OWNER'S NEEDS. THE CONTRACTOR SHALL COORDINATE, CONFIRM, AND FINALIZE SYSTEM COVERAGE, FEATURES AND PROGRAMMING WITH OWNER, OWNER'S SUPPORT STAFF (IT, SECURITY, ETC.), DESIGN TEAM, AND OTHER TRADES/DISCIPLINES PRIOR TO BID AND PRIOR TO COMPLETING FINAL CONSTRUCTION DOCUMENTS FOR THE SYSTEMS IDENTIFIED ABOVE. COORDINATE DEVICE LOCATIONS, HEIGHTS, ETC. WITH ARCHITECT AND OTHER TRADES PRIOR TO ROUGH-IN.</div><div>5. <u>COORDINATION AND QUALITY ASSURANCE:</u> ALL DESIGN, MATERIALS AND INSTALLATION METHODS EMPLOYED FOR THESE SYSTEM(S) SHALL BE COMPLIANT WITH THE MOST CURRENT VERSIONS OF ALL NATIONAL AND LOCALLY RECOGNIZED CODES AND REGULATIONS, INCLUDING REQUIREMENTS AS COORDINATED WITH, AND IDENTIFIED BY, THE OWNER. ITEM COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, SOFTWARE/PROGRAMMING PACKAGES, FINAL HEAD END EQUIPMENT AND DEVICE LOCATIONS (INCLUDING MOUNTING TYPES AND HEIGHTS), MANUFACTURER POWER REQUIREMENTS, INTEGRATION AND REQUIREMENTS WITH OTHER SYSTEMS (FIRE LIFE SAFETY), ETC. VERIFY WITH OWNER LEVEL OF INTEGRATION AND COMPARABILITY BETWEEN THESE SYSTEMS AND MANUFACTURES AS WELL AS ANY OTHER SPECIAL SYSTEMS NOT PART OF THIS SCOPE.</div><div>6. <u>QUALIFICATIONS:</u> CONTRACTOR(S) SHALL HOLD A VALID STATE OF CALIFORNIA C10 AND C7 LICENSE AND SHALL HAVE BEEN IN THE BUSINESS OF FURNISHING AND INSTALLING SIMILAR SYSTEMS OF SCOPE AND SIZE FOR A MINIMUM OF FIVE (5) YEARS. CONTRACTOR SHALL BE CAPABLE OF BEING BONDED TO ASSURE THE OWNER PERFORMANCE AND SATISFACTORY SERVICE DURING THE WARRANTY PERIOD.</div><div>7. INSTALLING CONTRACTOR SHALL BE A FACTORY AUTHORIZED DISTRIBUTOR, INSTALLER AND WARRANTY STATION FOR THE BRAND OF EQUIPMENT BEING OFFERED. IN ADDITION, CONTRACTOR SHALL FURNISH CERTIFICATES OF TRAINING FOR PERSONNEL PERFORMING WORK AND A LETTER FROM THE MANUFACTURER ADDRESSED TO THE OWNER (OR OWNER'S REPRESENTATIVE) CERTIFYING THAT THE CONTRACTOR IS AN AUTHORIZED DISTRIBUTOR AND INSTALLER OF SAID EQUIPMENT AND EQUIPMENT SHALL BE INSTALLED ACCORDING TO INTENDED MANUFACTURER'S PRACTICES. CONTRACTOR SHALL MAINTAIN A FULLY EQUIPPED SERVICE ORGANIZATION CAPABLE OF FURNISHING ADEQUATE REPAIR SERVICE TO WARRANTED EQUIPMENT WITH RESPONSE TIMES TO PROJECT SITE WITHIN 4 HOURS TIME.</div><div>8. <u>WIRELESS:</u> WIRELESS DEVICES AND/OR COMPONENTS ARE NOT ALLOWED AS PART OF CONTRACTOR'S BASE BID UNLESS OTHERWISE NOTED. APPROVAL OF WIRELESS SYSTEMS SHALL BE AT THE DISCRETION OF THE ENGINEER OF RECORD AND OWNER. ANY PROPOSED WIRELESS SYSTEM COMPONENTS SHALL CONTAIN A PRE-BID SUBMITTAL PACKAGE FOR A BID-ALTERNATE PACKAGE CONSIDERATION. SUBMITTAL SHALL INCLUDE ALL DATA AND DOCUMENTS IDENTIFIED WITHIN THE SUBMITTAL REQUIREMENTS OF THIS SECTION.</div><div>9. <u>SOFTWARE:</u> ALL SYSTEM DESIRED SOFTWARE PLATFORMS AND QUANTITY OF LICENSES SHALL BE PROVIDED FOR ALL FURNISHED EQUIPMENT AS PART OF THE COMPLETE AND OPERATIONAL SYSTEM. ALL SYSTEM SOFTWARE PLATFORMS INSTALLED SHALL BE THE FULL AND COMPLETE VERSION OF THE MOST RECENT SOFTWARE PACKAGE AVAILABLE AT THE TIME OF INSTALLATION. OWNER SHALL BE PROVIDED FORMAL COPIES OF ALL LICENSES AND FURNISHED WITH ALL USER NAMES AND PASSWORDS TO SYSTEMS AS PART OF CLOSE-OUT DOCUMENTATION.</div><div>10. <u>SUBMITTALS:</u> FURNISH VIA SUBMITTAL PROCESS COMPLETED CONSTRUCTION DOCUMENTS, SPECIFICATIONS, AND PRODUCT DATA CUT SHEETS FOR THE SYSTEMS IDENTIFIED ABOVE AND HEREIN. SUBMITTALS FOR THESE SYSTEMS MUST INCLUDE, <u>AT A MINIMUM</u>, THE FOLLOWING INFORMATION:<div><div>A. COPY OF CONTRACTOR'S VALID AND CURRENT CALIFORNIA STATE LICENSE (C7 AND C10)</div><div>B. COPY OF PROJECT LIST WITH (10) COMPLETED PROJECTS WITHIN THE LAST (5) YEARS.</div><div>C. COPY OF MANUFACTURER'S AUTHORIZATION LETTERS IDENTIFYING THE CONTRACTOR AS AN AUTHORIZED DISTRIBUTOR AND INSTALLER.</div><div>D. PROOF OF CONTRACTOR'S TRAINED PERSONNEL, AND PERSONNEL ARE LOCATED IN THE LOCAL FACILITY.</div><div>E. MANUFACTURER'S WARRANTY (STANDARD AND EXTENDED WARRANTIES).</div><div>F. PROPOSED MANUFACTURER AND SYSTEM IN ACCORDANCE WITH THIS CRITERIA INCLUDING DATA CUT SHEETS FOR ALL PRODUCT EQUIPMENT AND DEVICES.</div><div>G. PROPOSED COMPLETE SYSTEM LAYOUT INDICATING LOCATIONS FOR ALL DEVICES, CONTROL POINTS, POWER-SUPPLIES, TERMINAL CABINETS, CABLING, ETC. ASSOCIATED WITH THIS PROJECT, INCLUDING WIRING DIAGRAMS, WIRE LEGENDS, DEVICE AND BACK BOX MOUNTING HEIGHTS, ZONING SCHEDULE/LEGEND, ETC. PLANS SUBMITTED SHALL INCLUDE PROPOSED CABLING AND CONDUIT ROUTING ON 1/8" SCALE PLANS.</div><div>H. RISER/SINGLE LINE DIAGRAMS AND CALCULATIONS SHOWING COMPLETE SYSTEM LAYOUT, INCLUDING BUT NOT LIMITED TO, CONNECTION DIAGRAMS FOR SYSTEMS AS WELL AS INTERFACE WITH OTHER SYSTEMS WHERE APPLICABLE, AND CONNECTIVITY, INCLUDING ANY BATTERY AND VOLTAGE DROP CALCULATIONS.</div><div>I. HEAD-END EQUIPMENT LOCATIONS AND ELEVATIONS.</div><div>J. INCLUDE TESTING AND COMMISSIONING PROCEDURES, COORDINATED WITH OWNER'S REQUIREMENTS AND MANUFACTURER'S STANDARDS, INCLUDING ANSI/TIA-568-C.0, ANSI/TIA-568-C.1, ANSI/TIA-568-C.2, ANSI/TIA-568-C.3.</div><div>K. SUBMITTALS WITHOUT THE ABOVE INFORMATION SHALL BE DEEMED INCOMPLETE AND WILL BE REJECTED.</div></div></div><div>11. <u>WARRANTY, SUPPORT, AND PROGRAMMING:</u><div><div>A. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING THE MANUFACTURER'S WARRANTY. ALL COMPONENTS, PARTS AND ASSEMBLIES SUPPLIED BY THE MANUFACTURER AND INSTALLED BY THE CONTRACTOR SHALL BE WARRANTED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP (PARTS AND LABOR) FOR A PERIOD OF ONE (1) YEAR MINIMUM. CONTRACTOR SHALL INCLUDE IN BID ALL REQUIRED TECHNICAL SUPPORT, PROGRAMMING, PARTS AND LABOR TO SUCCESSFULLY EXECUTE AND MEET THE INTENT OF THIS CRITERIA. WARRANTY PERIOD SHALL BEGIN FROM THE DATE OF FINAL WRITTEN ACCEPTANCE BY THE OWNER. PROVIDE TYPED IDENTIFICATION/INFORMATION CARD AT HEAD END EQUIPMENT LOCATION INDICATING WARRANTY PERIOD START DATE AND COMPANY CONTACT INFORMATION FOR WARRANTY SERVICE, INCLUDING COMPANY NAME, ADDRESS AND PHONE NUMBER.</div><div>B. CONTRACTOR SHALL PROVIDE AND INCLUDE ALL PARTS & COMPONENTS OF THE VOICE/ TELECOM SYSTEM, AS PART OF A COMPLETE "END-TO-END" SOLUTION, IN ORDER TO ESTABLISH & MAINTAIN MANUFACTURE'S EXTENDED WARRANTIES. SYSTEM COMPONENTS (AND MANUFACTURE'S RECOGNIZED EXTENDED WARRANTY) SHALL BE INCLUDED WITH SUBMITTAL DOCUMENTATION FOR ALL PROPOSED SYSTEMS. SEE WARRANTY REQUIREMENTS FOR ADDITIONAL INFORMATION.</div></div></div><div>12. CONTRACTOR TO INCLUDE BID-ALTERNATE LINE ITEM AS PART OF HIS BID FOR AN EXTENDED SERVICE/MAINTENANCE AGREEMENT FOR THE DURATION OF THE WARRANTY PERIOD AND ONE (1) YEAR BEYOND WARRANTY EXPIRATION DATE.</div><div>13. <u>ALTERNATES:</u> APPROVAL FOR ALTERNATE SYSTEMS IS REQUIRED <u>PRIOR TO BID</u>. SUBMIT ALL ALTERNATE SYSTEM INFORMATION (15) DAYS PRIOR TO BID DEADLINE FOR ENGINEER REVIEW. PROPOSED ALTERNATE SYSTEM INFORMATION SHALL BE PROVIDED AS IDENTIFIED IN THE SUBMITTAL REQUIREMENTS ABOVE. IN ADDITION, INCLUDE LINE ITEM COST COMPARISON AND OVERALL SYSTEM COST SAVINGS. BIDDING CONTRACTOR SHALL INCLUDE A STATEMENT EXPLAINING THE POTENTIAL BENEFIT TO OWNER FOR THE ACCEPTANCE OF PROPOSED ALTERNATE.</div><div>14. INTERRUPTIONS OR SERVICE OUTAGES OF ANY EXISTING SYSTEM SHALL BE COORDINATED AND SCHEDULED WITH THE OWNER A MINIMUM OF TWO WEEKS ADVANCED NOTICE, AND WITH OWNER'S WRITTEN APPROVAL FOR SCHEDULE. OUTAGES SHALL TAKE PLACE OUTSIDE OF NORMAL BUSINESS, OR BUILDING'S OCCUPIED HOURS. ALL COSTS SHALL BE BORNE BY THE CONTRACTOR TO ACCOMMODATE OUTAGE SCHEDULING.</div><div>15. <u>BOOK SPECIFICATIONS:</u> IN THE EVENT OF CONFLICTS BETWEEN CONSTRUCTION BID DOCUMENT SPECIFICATIONS AND THE CRITERIA ABOVE, THE MOST STRINGENT OF REQUIREMENTS SHALL APPLY.</div><div>16. <u>ACCEPTABLE MANUFACTURERS:</u><div><div><u>CABLING</u><div><div>A. GENERAL CABLE</div><div>B. PANDUIT</div></div></div><div><u>CONNECTING HARDWARE</u><div><div>A. PANDUIT</div></div></div><div><u>BACKS</u><div><div>A. CHATSWORTH</div></div></div><div><u>AUDIO VISUAL EQUIPMENT AND CABLING:</u><div><div>A. HP POLY</div><div>B. SAMSUNG</div></div></div></div></div></div>	<div><div>1. ALL GENERAL NOTES AND SPECIFICATIONS CONTAINED HEREIN APPLY TO THE GENERAL CONTRACTOR AND AWARDED DESIGN-BUILD CONTRACTOR(S) BIDDING THESE PLANS. THE GENERAL CONTRACTOR AND OWNER ARE RESPONSIBLE FOR PROVIDING THIS SET OF PLANS TO ALL RELEVANT PARTIES (ELECTRICAL CONTRACTOR, DESIGN-BUILD LOW-VOLTAGE CONTRACTOR(S), SYSTEM INTEGRATORS, ETC.) IN ORDER TO DEVELOP AN ACCURATE ALL-INCLUSIVE BID, AND TO ENSURE A COMPLETE AND OPERABLE SYSTEM IS DELIVERED, INCLUDING ALL REQUIRED CONDUIT PATHWAYS, POWER SUPPLIES, CONNECTIONS, ETC.</div><div>2. <u>SCOPE OF WORK:</u> THE SCOPE OF WORK FOR THIS CONTRACTOR SHALL CONSIST OF DELIVERING A COMPLETE DESIGN-BUILD INSTALLATION BASED ON THIS SET OF PLANS FOR THE INTRUSION ALARM SYSTEM. SELECTED DESIGN-BUILD CONTRACTOR(S) SHALL UTILIZE THIS SET OF PLANS AS A BASIS-OF-DESIGN TO BE USED BY AWARDED CONTRACTOR(S) IN DEVELOPING A FINAL SET OF CONSTRUCTION DOCUMENTS AND SPECIFICATIONS FOR THE SYSTEMS IDENTIFIED ABOVE.</div><div>3. CONTRACTOR SHALL PROVIDE ALL REQUIRED MATERIAL (INCLUDING, BUT NOT LIMITED TO LOW-VOLTAGE CABLING, HARDWARE, PATHWAYS, ACCESSORIES, MODULES, DEVICES, CONTROLLERS, POWER SUPPLIES, ETC. WHETHER INDICATED HEREIN OR NOT), AND LABOR FOR A COMPLETE AND OPERABLE SYSTEM. FINAL SYSTEM SHALL ACCOMMODATE THE TOTAL NUMBER OF DEVICE LOCATIONS AND/OR CONTROL POINTS IDENTIFIED AS A MINIMUM AND MEET THE SYSTEM INTENT OF THESE DOCUMENTS.</div><div>4. THE SYSTEM(S) PLANS CONTAINED IN THESE SHEETS ARE CONCEPTUAL ONLY AND ARE BASED ON INITIAL OWNER INPUT RECEIVED TO DATE AND DESIGN TEAM INFORMATION COORDINATED THUS FAR. THE AWARDED CONTRACTOR(S) SHALL BE RESPONSIBLE FOR ADAPTING THE SYSTEM(S) AND DESIGN INTENT ILLUSTRATED WITHIN THIS DESIGN-BUILD CRITERIA TO THE ACTUAL CONDITIONS OF THIS PROJECT AND THE FINAL OWNER'S NEEDS. CONTRACTOR(S) SHALL COORDINATE, CONFIRM, AND FINALIZE DESIRED SYSTEM(S) COVERAGE, FEATURES AND PROGRAMMING WITH OWNER, OWNER'S SUPPORT STAFF (IT, SECURITY, ETC.) DESIGN TEAM, AND OTHER TRADES/DISCIPLINES PRIOR TO BID AND PRIOR TO COMPLETING FINAL CONSTRUCTION DOCUMENTS FOR THE SYSTEM(S) IDENTIFIED ABOVE. COORDINATE DEVICE LOCATIONS, HEIGHTS, ETC. WITH ARCHITECT AND OTHER TRADES PRIOR TO ROUGH-IN.</div><div>5. <u>COORDINATION AND QUALITY ASSURANCE:</u> ALL DESIGN, MATERIALS AND INSTALLATION METHODS EMPLOYED FOR THESE SYSTEM(S) SHALL BE COMPLIANT WITH THE MOST CURRENT VERSIONS OF ALL NATIONAL AND LOCALLY RECOGNIZED CODES AND REGULATIONS, INCLUDING REQUIREMENTS AS COORDINATED WITH, AND IDENTIFIED BY, THE OWNER. ITEM COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, SOFTWARE/PROGRAMMING PACKAGES, FIELD-OF-VIEW AND FOCAL POINTS (CCTV), FINAL HEAD END EQUIPMENT AND DEVICE LOCATIONS (INCLUDING MOUNTING TYPES AND HEIGHTS), SEQUENCE OF OPERATIONS, DOOR HOLD AND LOCK MECHANISMS, MANUFACTURER POWER REQUIREMENTS, INTEGRATION AND REQUIREMENTS WITH OTHER SYSTEMS (FIRE LIFE SAFETY), ETC. VERIFY WITH OWNER LEVEL OF INTEGRATION AND COMPARABILITY BETWEEN THESE SYSTEMS AND MANUFACTURES AS WELL AS ANY OTHER SPECIAL SYSTEMS NOT PART OF THIS SCOPE (AV, LIGHTING CONTROL, ENERGY MANAGEMENT, ETC.)</div><div>6. <u>QUALIFICATIONS:</u> CONTRACTOR(S) SHALL HOLD A VALID STATE OF CALIFORNIA C10 AND C7 LICENSE AND SHALL HAVE BEEN IN THE BUSINESS OF FURNISHING AND INSTALLING SIMILAR SYSTEMS OF SCOPE AND SIZE FOR A MINIMUM OF FIVE (5) YEARS. CONTRACTOR SHALL BE CAPABLE OF BEING BONDED TO ASSURE THE OWNER PERFORMANCE AND SATISFACTORY SERVICE DURING THE WARRANTY PERIOD.</div><div>7. INSTALLING CONTRACTOR SHALL BE A FACTORY AUTHORIZED DISTRIBUTOR, INSTALLER AND WARRANTY STATION FOR THE BRAND OF EQUIPMENT BEING OFFERED. IN ADDITION, CONTRACTOR SHALL FURNISH CERTIFICATES OF TRAINING FOR PERSONNEL PERFORMING WORK AND A LETTER FROM THE MANUFACTURER ADDRESSED TO THE OWNER (OR OWNER'S REPRESENTATIVE) CERTIFYING THAT THE CONTRACTOR IS THE AUTHORIZED DISTRIBUTOR AND INSTALLER OF SAID EQUIPMENT AND EQUIPMENT SHALL BE INSTALLED ACCORDING TO INTENDED MANUFACTURER'S PRACTICES. CONTRACTOR SHALL MAINTAIN A FULLY EQUIPPED SERVICE ORGANIZATION CAPABLE OF FURNISHING ADEQUATE REPAIR SERVICE TO WARRANTED EQUIPMENT WITH RESPONSE TIMES TO PROJECT SITE WITHIN 4 HOURS TIME.</div><div>8. <u>WIRELESS:</u> WIRELESS DEVICES AND/OR COMPONENTS ARE NOT ALLOWED AS PART OF CONTRACTOR'S BASE BID UNLESS OTHERWISE NOTED, AND APPROVAL OF WIRELESS SYSTEMS SHALL BE AT THE DISCRETION OF THE ENGINEER OF RECORD AND OWNER. ANY PROPOSED WIRELESS SYSTEM COMPONENTS SHALL CONTAIN A PRE-BID SUBMITTAL PACKAGE FOR A BID-ALTERNATE PACKAGE CONSIDERATION. SUBMITTAL SHALL INCLUDE ALL DATA AND DOCUMENTS IDENTIFIED WITHIN THE SUBMITTAL REQUIREMENTS OF THIS SECTION.</div><div>9. <u>SOFTWARE:</u> ALL SYSTEM DESIRED SOFTWARE PLATFORMS AND QUANTITY OF LICENSES SHALL BE PROVIDED FOR ALL FURNISHED EQUIPMENT AS PART OF THE CONTRACTOR'S COMPLETE AND OPERABLE SYSTEM(S). ALL SYSTEM SOFTWARE PLATFORMS INSTALLED SHALL BE THE FULL AND COMPLETE VERSION OF THE MOST RECENT SOFTWARE PACKAGE AVAILABLE AT THE TIME OF INSTALLATION. OWNER SHALL BE PROVIDED FORMAL COPIES OF ALL LICENSES AND FURNISHED WITH ALL USER NAMES AND PASSWORDS TO SYSTEMS AS PART OF CLOSE-OUT DOCUMENTATION.</div><div>10. <u>SUBMITTALS:</u> FURNISH VIA SUBMITTAL PROCESS COMPLETED CONSTRUCTION DOCUMENTS, SPECIFICATIONS, AND PRODUCT DATA CUT SHEETS FOR THE SYSTEMS IDENTIFIED ABOVE AND HEREIN. SUBMITTALS FOR THESE SYSTEMS MUST INCLUDE, <u>AT A MINIMUM</u>, THE FOLLOWING INFORMATION:<div><div>A. COPY OF CONTRACTOR'S VALID AND CURRENT CALIFORNIA STATE LICENSE (C7 AND C10)</div><div>B. COPY OF PROJECT LIST WITH (10) COMPLETED PROJECTS WITHIN THE LAST (5) YEARS.</div><div>C. COPY OF MANUFACTURER'S AUTHORIZATION LETTERS IDENTIFYING THE CONTRACTOR AS AN AUTHORIZED DISTRIBUTOR AND INSTALLER.</div><div>D. PROOF OF CONTRACTOR'S TRAINED PERSONNEL, AND PERSONNEL ARE LOCATED IN THE LOCAL FACILITY</div><div>E. MANUFACTURER'S WARRANTY.</div><div>F. PROPOSED MANUFACTURER AND SYSTEM IN ACCORDANCE WITH THIS CRITERIA INCLUDING DATA CUT SHEETS FOR ALL PRODUCT EQUIPMENT AND DEVICES</div><div>G. PROPOSED COMPLETE SYSTEM LAYOUT INDICATING LOCATIONS FOR ALL DEVICES, CONTROL POINTS, POWER-SUPPLIES, TERMINAL CABINETS, CABLING, ETC. ASSOCIATED WITH THIS PROJECT, INCLUDING WIRING DIAGRAMS, WIRE LEGENDS, DEVICE AND BACK BOX MOUNTING HEIGHTS, ZONING SCHEDULE/LEGEND, ETC. PLANS SUBMITTED SHALL INCLUDE PROPOSED CABLING AND CONDUIT ROUTING ON 1/8" SCALE PLANS.</div><div>H. RISER/SINGLE LINE DIAGRAMS AND CALCULATIONS SHOWING COMPLETE SYSTEM LAYOUT, INCLUDING BUT NOT LIMITED TO, CONNECTION DIAGRAMS FOR SYSTEMS AS WELL AS INTERFACE WITH OTHER SYSTEMS WHERE APPLICABLE, AND CONNECTIVITY, INCLUDING ANY BATTERY AND VOLTAGE DROP CALCULATIONS.</div><div>I. HEAD-END EQUIPMENT LOCATIONS AND ELEVATIONS.</div><div>J. TESTING AND COMMISSIONING PER OWNER'S REQUIREMENTS, INDUSTRY STANDARDS, AND MANUFACTURE STANDARDS.</div><div>K. SUBMITTALS WITHOUT THE ABOVE INFORMATION SHALL BE DEEMED INCOMPLETE AND REJECTED.</div></div></div><div>14. <u>WARRANTY, SUPPORT, AND PROGRAMMING:</u> CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING THE MANUFACTURER'S WARRANTY. ALL COMPONENTS, PARTS AND ASSEMBLIES SUPPLIED BY THE MANUFACTURER AND INSTALLED BY THE CONTRACTOR SHALL BE WARRANTED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP (PARTS AND LABOR) FOR A PERIOD OF ONE (1) YEAR MINIMUM. CONTRACTOR SHALL INCLUDE IN BID ALL REQUIRED TECHNICAL SUPPORT, PROGRAMMING, PARTS AND LABOR TO SUCCESSFULLY EXECUTE AND MEET THE INTENT OF THIS CRITERIA. WARRANTY PERIOD SHALL BEGIN FROM THE DATE OF FINAL WRITTEN ACCEPTANCE BY THE OWNER. PROVIDE TYPED IDENTIFICATION/INFORMATION CARD AT HEAD END EQUIPMENT LOCATION INDICATING WARRANTY PERIOD START DATE AND COMPANY CONTACT INFORMATION FOR WARRANTY SERVICE, INCLUDING COMPANY NAME, ADDRESS AND PHONE NUMBER.</div><div>15. CONTRACTOR SHALL INCLUDE BID-ALTERNATE LINE ITEM AS PART OF HIS BID FOR AN EXTENDED SERVICE/MAINTENANCE AGREEMENT FOR THE DURATION OF THE WARRANTY PERIOD AND ONE (1) YEAR BEYOND WARRANTY EXPIRATION DATE.</div><div>16. <u>TRAINING:</u> INCLUDE AS PART OF BASE BID ALLOWANCE FOR UP TO (2) 4 HOUR TRAINING SESSIONS WITH ACCOMMODATIONS FOR A MAXIMUM OF (6) END-USER TRAINEES AT EACH SESSION. TRAINING SESSIONS SHALL BE HELD ON DIFFERENT DAYS AT A LOCATION DETERMINED BY OWNER. TRAINING SHALL BE PROVIDED WITHIN 30-DAYS OF PROJECT COMPLETION AND SESSION TIMES COORDINATED WITH OWNER PRIOR TO PROJECT COMPLETION.</div><div>17. <u>TRAINING BID-ALTERNATE:</u> CONTRACTOR TO PROVIDE BID-ALTERNATE LINE ITEM FOR OWNER TRAINING CONSISTING OF ALL CHARGES (INCLUDING TRAVEL, LODGING, MEALS, ETC.) REQUIRED TO PROVIDE FACTORY CERTIFICATION, EQUAL TO THAT OF A FACTORY AUTHORIZED DISTRIBUTOR, FOR THE SYSTEMS INSTALLED, FOR (2) SELECTED OWNER'S REPRESENTATIVES. TRAINING SHALL OCCUR AT THE PRIMARY FACTORY OF THE MANUFACTURERS EQUIPMENT AND SHALL ALLOW THE SELECTED OWNER'S REPRESENTATIVES TO PROVIDE ANY AND ALL FACTORY/MANUFACTURERS APPROVED REPAIRS, SERVICES, SOFTWARE UPGRADES, ETC. WITHOUT AFFECTING ANY AVAILABLE OR APPLICABLE MANUFACTURERS WARRANTIES THAT ARE IN PLACE. TRAINING SHALL BE PROVIDED WITHIN TIMELINE INDICATED ABOVE.</div><div>18. <u>ALTERNATES:</u> APPROVAL FOR ALTERNATE SYSTEMS IS REQUIRED <u>PRIOR TO BID</u>. SUBMIT ALL ALTERNATE SYSTEM INFORMATION (15) DAYS PRIOR TO BID DEADLINE FOR ENGINEER REVIEW. PROPOSED ALTERNATE SYSTEM INFORMATION SHALL BE PROVIDED AS IDENTIFIED IN THE SUBMITTAL REQUIREMENTS ABOVE. IN ADDITION, INCLUDE LINE ITEM COST COMPARISON AND OVERALL SYSTEM COST SAVINGS. BIDDING CONTRACTOR SHALL INCLUDE A STATEMENT EXPLAINING THE POTENTIAL BENEFIT TO OWNER FOR THE ACCEPTANCE OF PROPOSED ALTERNATE.</div><div>19. <u>EXTENSION OF EXISTING SYSTEMS:</u> WHERE EXISTING SYSTEMS ARE PRESENT ON THE PREMISES OF THIS PROJECT, SYSTEM(S) PROPOSED HEREIN MUST BE EXTENSIONS OF EXISTING SYSTEM(S) WITH COMPONENTS COMPRISED OF MATCHING MANUFACTURERS AND PRODUCTS UNLESS OTHERWISE NOTED. EXISTING SYSTEM EXTENSIONS SHALL NOT VOID EXISTING WARRANTIES IN PLACE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT ALL SITE INVESTIGATIONS AND TO FAMILIARIZE HIMSELF WITH EXISTING SYSTEMS AND COMPONENTS REQUIRED FOR SAID EXTENSIONS, AND TO BRING TO THE OWNER/ARCHITECT'S ATTENTION ANY ITEMS REQUIRING CLARIFICATION PRIOR TO BID. CONTRACTOR SHALL FURNISH ALL DEVICES, PATHWAYS, BOXES, WIRING, PROGRAMMING AND ANCILLARY COMPONENTS REQUIRED FOR A COMPLETE AND OPERABLE EXPANSION OF EXISTING SYSTEM(S).</div><div>20. INTERRUPTIONS OR OUTAGE OF SERVICES OF ANY EXISTING SYSTEM SHALL BE COORDINATED AND SCHEDULED WITH OWNER AT A MINIMUM OF TWO WEEKS ADVANCED NOTICE, AND WITH OWNER'S WRITTEN APPROVAL FOR SCHEDULE. OUTAGES SHALL TAKE PLACE OUTSIDE OF NORMAL BUSINESS, OR BUILDING'S OCCUPIED HOURS. ALL COSTS SHALL BE BORNE BY THE CONTRACTOR TO ACCOMMODATE OUTAGE SCHEDULING.</div><div>21. <u>BOOK SPECIFICATIONS:</u> IN THE EVENT OF CONFLICTS BETWEEN CONSTRUCTION BID DOCUMENT SPECIFICATIONS AND THE CRITERIA ABOVE, THE MOST STRINGENT OF REQUIREMENTS SHALL APPLY.</div><div>22. <u>ACCEPTABLE SYSTEM MANUFACTURERS:</u><div><div><u>INTRUSION DETECTION</u><div><div>A. BOSCH</div><div>B. DMP</div><div>C. HONEYWELL SECURITY (#128BP OR #250BP)</div></div></div><div><u>ACCEPTABLE CABLING MANUFACTURERS:</u><div><div>A. WEST PENN</div><div>B. BELDEN</div><div>C. GENERAL CABLE</div></div></div></div></div></div>



PLASTIC BUSHING

HORIZONTAL CABLING TO MCR, GENERAL CABLE GENSPEED 6000 ENHANCED CATEGORY 6, PLENUM-RATED, BLUE JACKET

EXTEND 3/4" CONDUIT MINIMUM CONTINUOUS FROM BACKBOX TO ACCESSIBLE CEILING SPACE OR AS INDICATED ON DRAWINGS

4"Wx4"Hx2-1/8"D RECESSED BACK BOX

SINGLE-GANG MUDRING

CAT 6 RJ-45 JACK

PANDUIT SINGLE-GANG FLUSH-MOUNT FACEPLATE

PROVIDE BLANK INSERTS TO FILL SPARE SPACES

NOTE:
ALL CABLE PAIRS OR MODULAR JACKS SHALL BE WIRED TO ANSI/TIA/EIA-568-B USING T568-A WIRING SCHEME AT BOTH ENDS. VERIFY WITH OWNER PRIOR TO INSTALLATION.

SCALE: NONE

2

COORDINATE WITH STRUCTURAL SUPPORT REQUIREMENTS (TYP)

STRUCTURE

3/8" DIAMETER THREADED ROD ATTACHED TO STRUCTURE (TYP)

SECURE J-HOOKS TO THE STRUCTURE THREADED ROD

ENHANCED CAT 6 CABLING FROM DEVICE TO MCR

~4 FOOT SPACING

1'-0" MAX PER CBC SECTION 1617A.1.24

12" MINIMUM

WRAP CABLING WITH VELCRO STRAP TO SECURE BUNDLES. CABLING LOAD TO EACH HANGER SHALL NOT EXCEED 50 LBS. PER CBC SECTION 1617A.1.24. (TYP)

ACCESSIBLE CEILING

LAY-IN CEILING

SCALE: NONE

3

ROUTE ENHANCED CAT 6 CABLING TO MCR

4 TO 04

GROMMETED HOLE IN CEILING TILE

CEILING GRID / T-RAIL CLIP (TYP)

MOUNTING CRADLE

CAT 6 PATCH CORD

NUTS

WAP LABEL PER OWNER STANDARDS

GRID CEILING TILE (TYP)

WIRELESS ACCESS POINT AND MOUNTING BRACKET (OWNER-FURNISHED CONTRACTOR-INSTALLED)

NOTE:
THIS DETAIL IS ONLY APPLICABLE TO DEVICES IN STAFF WORK 105 AND STAFF LOUNGE 107.

SCALE: NONE

4

SUPPORT J-HOOK USING A DEDICATED 3/8" DIAMETER THREADED ROD ATTACHED TO STRUCTURE. REFERENCE DETAIL 4 ON STRUCTURAL DRAWING S1.3 FOR ADDITIONAL SUPPORT REQUIREMENTS.

ROUTE (2) ENHANCED CAT 6 CABLES TO MCR

15'-0" SERVICE LOOP SUPPORTED USING J-HOOK

2-PORT SURFACE MOUNT BOX

CAT 6 RJ-45 ORANGE JACK, PANDUIT MINICOM (TYP OF 2)

NOTE:
ALL CABLE PAIRS OR MODULAR JACKS SHALL BE WIRED TO ANSI/TIA/EIA-568-B USING T568-A WIRING SCHEME AT BOTH ENDS. VERIFY WITH OWNER PRIOR TO INSTALLATION.

SCALE: NONE

5

ACCESSIBLE CEILING

HARD-LID OR OPEN-TO-STRUCTURE CEILING

J-HOOK WITH 3/8" DIAMETER THREADED ROD TO STRUCTURE. REFERENCE DETAIL 4 ON STRUCTURAL DRAWING S1.3 FOR ADDITIONAL SUPPORT REQUIREMENTS. (TYP)

EXTEND 1" CONDUIT FROM BACKBOX TO NEAREST ACCESSIBLE CEILING SPACE OR AS INDICATED ON DRAWINGS. PROVIDE PLASTIC BUSHING.

REFERENCE DETAIL 4 ON STRUCTURAL DRAWING S1.3 FOR ADDITIONAL SUPPORT REQUIREMENTS (TYP)

3/8" DIAMETER THREADED ROD TO STRUCTURE TO SUPPORT BACKBOX OR J-HOOK (TYP)

STRUCTURE

ENHANCED CAT 6 CABLING TO MCR

15 FT SERVICE LOOP

RECESSED 4"SQ BACKBOX WITH SINGLE-GANG MUD-RING

CEILING

WIRELESS ACCESS POINT WITH MOUNTING BRACKET (OWNER-FURNISHED CONTRACTOR-INSTALLED)

NOTE:
ALL CABLE PAIRS OR MODULAR JACKS SHALL BE WIRED TO ANSI/TIA/EIA-568-B USING T568-A WIRING SCHEME AT BOTH ENDS. VERIFY WITH OWNER PRIOR TO INSTALLATION.

SCALE: NONE

6

SURFACE MOUNT BOX

DEVICE LABEL PER OWNER STANDARDS

TOP VIEW

BLANK MODULE (TYP OF 2)

SIDE VIEW

CAT 6 RJ-45 JACK, PANDUIT MINICOM (TYP OF 2)

QUANTITY OF JACKS/PORTS

COLOR
BL=BLUE
OR=ORANGE

SYMBOL: 2/XX
S= SURFACE MOUNT

NOTE:
ALL CABLE PAIRS OR MODULAR JACKS SHALL BE WIRED TO ANSI/TIA/EIA-568-B USING T568-A WIRING SCHEME AT BOTH ENDS. VERIFY WITH OWNER PRIOR TO INSTALLATION.

SCALE: NONE

7

4-PORT SINGLE-GANG PANDUIT FACEPLATE. VERIFY COLOR WITH OWNER.

6-PORT SINGLE-GANG PANDUIT FACEPLATE. VERIFY COLOR WITH OWNER.

2-PORT SINGLE-GANG PANDUIT FACEPLATE. VERIFY COLOR WITH OWNER.

2-PORT SINGLE-GANG PANDUIT FACEPLATE. VERIFY COLOR WITH OWNER.

DEVICE LABEL PER OWNER STANDARDS (TYP)

CAT 6 RJ-45 JACK, PANDUIT MINI-COM (TYP OF 4)

CAT 6 RJ-45 JACK, PANDUIT MINI-COM (TYP OF 6)

CAT 6 RJ-45 JACK, PANDUIT MINI-COM (TYP OF 2)

CAT 6 RJ-45 JACK, PANDUIT MINI-COM (TYP OF 2)

BLANK MODULE

QUANTITY OF JACKS

COLOR
BL=BLUE (PUBLIC AREAS)
OR=ORANGE (STAFF AREAS)

SYMBOL: 4/OR
4/BL

SYMBOL: 6/OR
6/BL

SYMBOL: 1/BL
1/OR

SYMBOL: 2/BL
2/OR

NOTE:
ALL CABLE PAIRS OR MODULAR JACKS SHALL BE WIRED TO ANSI/TIA/EIA-568-B USING T568-A WIRING SCHEME AT BOTH ENDS. VERIFY WITH OWNER PRIOR TO INSTALLATION.

SCALE: NONE

8

PORTABLE ALS TRANSMITTER

110VAC

AUDIO SOURCE

PORTABLE RECEIVER COMPLETE WITH BELT CLIP, HEADSETS, HEARING-AID COMPATIBLE HEADSETS AND BATTERIES.

NOTE:
1. PROVIDE (2) PORTABLE ASSISTIVE LISTENING SYSTEM (ALS) KITS, WILLIAMS AV MODEL FM ADA KIT 1. STORE ALS KITS AT CIRCULATION DESK.
2. ASSISTIVE LISTENING SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH CBC SECTION 11B-219 AND SHALL COMPLY WITH CBC SECTION 11B-706.
3. THE MINIMUM NUMBER OF RECEIVERS TO BE PROVIDED SHALL BE EQUAL TO 4% OF THE TOTAL NUMBER OF SEATS (OR LISTED OCCUPANCY, WHICHEVER IS GREATER), BUT IN NO CASE BE LESS THAN TWO (2). 25% MINIMUM OF THE RECEIVERS PROVIDED, BUT NO LESS THAN TWO (2), SHALL BE HEARING-AID COMPATIBLE IN ACCORDANCE WITH CBC SECTION 11B-706.3.
4. IF THE SYSTEM PROVIDED IS LIMITED TO SPECIFIC AREAS OR SEATS, THEN SUCH AREAS OR SEATS SHALL BE WITHIN A 50-FOOT VIEWING DISTANCE OF, AND HAVE A COMPLETE VIEW OF, THE STAGE OR PLAYING AREA OR PRESENTATION AREA. (CBC SECTION 11B-219.4)
5. CONTRACTOR TO PROVIDE ADDITIONAL REMOTE ANTENNA(S), ASSOCIATED HARDWARE AND ACCESSORIES AS REQUIRED FOR COMPLETE COVERAGE WITHIN ENTIRE INTENDED SYSTEM COVERAGE AREA.
6. CONTRACTOR TO PROVIDE TWO (2) RECHARGEABLE BATTERIES (MANUFACTURER RECOMMENDED) FOR EACH PORTABLE TRANSMITTER AND RECEIVER PROVIDED AS PART OF SYSTEM.
7. PROVIDE ALL ALS SIGNAGE AS REQUIRED BY CODE.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY HARDWARE AND COMPONENTS FOR A COMPLETE AND OPERABLE SYSTEM WHERE REQUIRED.

SCALE: NONE

9

PORTABLE ALS TRANSMITTER

110VAC

AUDIO SOURCE

PORTABLE RECEIVER COMPLETE WITH BELT CLIP, HEADSETS, HEARING-AID COMPATIBLE HEADSETS AND BATTERIES.

NOTE:
1. PROVIDE (2) PORTABLE ASSISTIVE LISTENING SYSTEM (ALS) KITS, WILLIAMS AV MODEL FM ADA KIT 1. STORE ALS KITS AT CIRCULATION DESK.
2. ASSISTIVE LISTENING SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH CBC SECTION 11B-219 AND SHALL COMPLY WITH CBC SECTION 11B-706.
3. THE MINIMUM NUMBER OF RECEIVERS TO BE PROVIDED SHALL BE EQUAL TO 4% OF THE TOTAL NUMBER OF SEATS (OR LISTED OCCUPANCY, WHICHEVER IS GREATER), BUT IN NO CASE BE LESS THAN TWO (2). 25% MINIMUM OF THE RECEIVERS PROVIDED, BUT NO LESS THAN TWO (2), SHALL BE HEARING-AID COMPATIBLE IN ACCORDANCE WITH CBC SECTION 11B-706.3.
4. IF THE SYSTEM PROVIDED IS LIMITED TO SPECIFIC AREAS OR SEATS, THEN SUCH AREAS OR SEATS SHALL BE WITHIN A 50-FOOT VIEWING DISTANCE OF, AND HAVE A COMPLETE VIEW OF, THE STAGE OR PLAYING AREA OR PRESENTATION AREA. (CBC SECTION 11B-219.4)
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7. PROVIDE ALL ALS SIGNAGE AS REQUIRED BY CODE.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY HARDWARE AND COMPONENTS FOR A COMPLETE AND OPERABLE SYSTEM WHERE REQUIRED.

SCALE: NONE

10

BASIS OF DESIGN

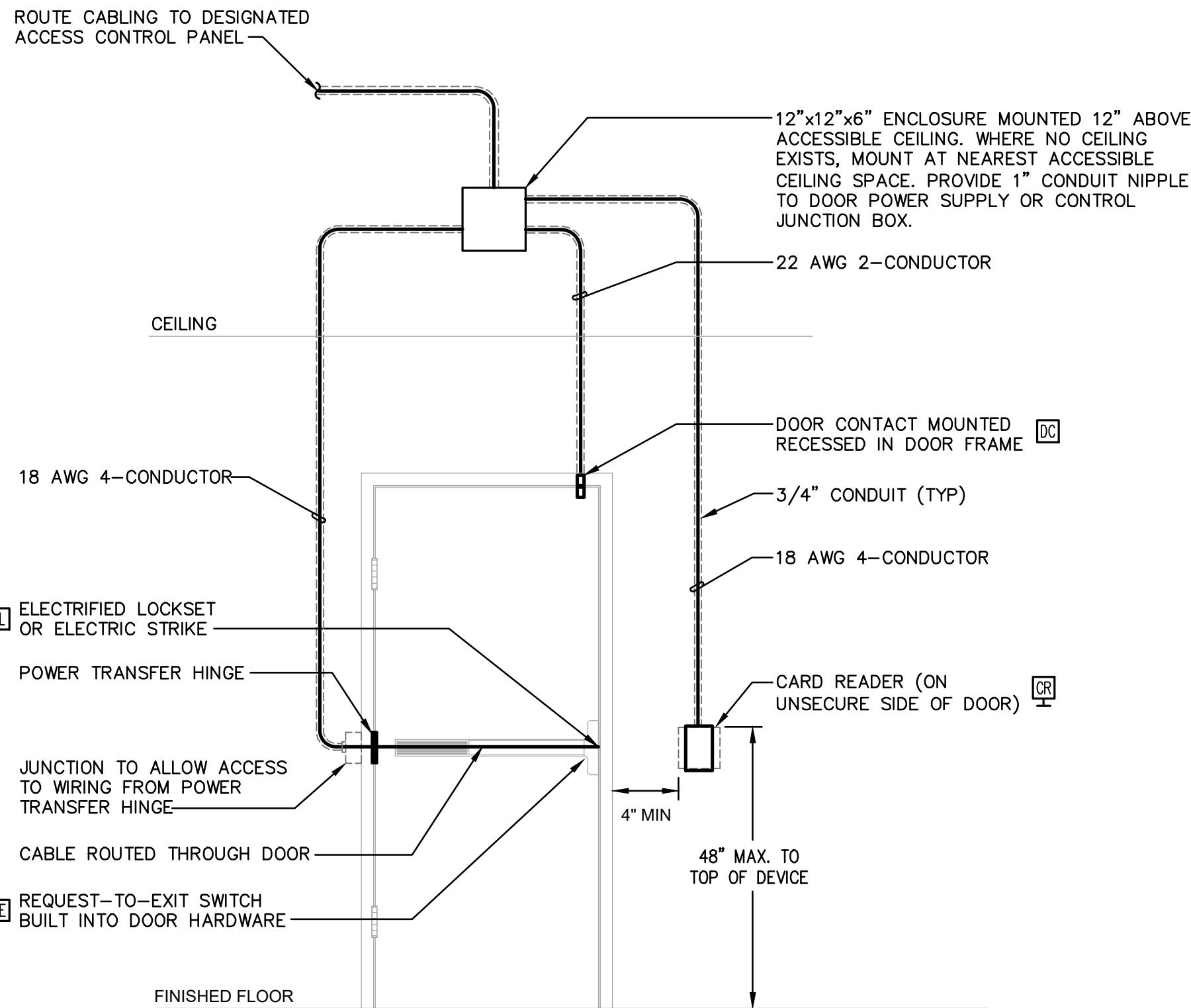
1. THE INTENT AND PURPOSE OF THE ACCESS CONTROL SYSTEM IS TO PROVIDE CONTROLLED ENTRY INTO THE BUILDING AND SPECIFIC ROOMS OF THE BUILDING AS DEFINED BY THE OWNER. ACCESS TO INDIVIDUAL UNITS SHALL BE THROUGH USE OF TRADITIONAL LOCKS AND KEYS, AND SHALL NOT BE PART OF THE ACCESS CONTROL SYSTEM.
2. THE SYSTEM SHALL USE ACCESS READERS AND KEYFOBS. ACCESS READERS SHALL BE INSTALLED AS INDICATED ON THE PLANS AND AS DEFINED BY THE OWNER. THE SYSTEM SHALL BE PROGRAMMABLE LOCALLY AND/OR REMOTELY. GRAPHICAL AND CONTROL INTEGRATION SOFTWARE SHALL BE PROVIDED INCLUDING REQUIRED SERVER, COMPUTER AND DISPLAY.
3. THE ACCESS CONTROL SYSTEM SHALL CONSIST OF, BUT NOT LIMITED TO THE FOLLOWING COMPONENTS:
 - A. ACCESS CONTROL PANEL WITH EXPANSION BOARDS AND REQUIRED LICENSES
 - B. WORKSTATION AND/OR SERVER
 - C. PROXIMITY ACCESS READERS
 - D. CREDENTIALS (KEYFOBS)
 - E. MAGNETIC DOOR CONTACTS
 - F. ELECTRIFIED DOOR HINGES AND STRIKES (COMPATIBLE WITH DOOR PANIC HARDWARE)
 - G. REQUEST-TO-EXIT SENSORS
 - H. POWER SUPPLIES
 - I. CABLING (SHIELDED AND/OR PLENUM-RATED AS REQUIRED)
4. THE ACCESS CONTROL SYSTEM SHALL BE INTEGRATED WITH THE INTRUSION DETECTION SYSTEM. INTEGRATION WITH THE INTRUSION DETECTION SYSTEM SHALL PROVIDE A MOMENTARY CONTACT CLOSURE SIGNAL FOR THE PROGRAMMED DISARMING OF THE SYSTEM AT SPECIFIC DOORS OR AREAS OF THE BUILDING.
5. THE ACCESS CONTROL SYSTEM SHALL BE INTEGRATED WITH THE CCTV SYSTEM. INTEGRATION WITH THE CCTV SYSTEM SHALL BE AS "ALARM MODE" WHERE ONE OR MORE CAMERAS MAY BE ASSOCIATED WITH ACCESS-CONTROLLED DOORS, GATES OR MONITORED AREAS.
 - A. ASSOCIATED CAMERAS SHALL BE PROGRAMMED TO AUTOMATICALLY PRE-POSITION OR "CALLED" INTO ALARM MODE BY THE ACCESS CONTROL SYSTEM. VIDEO CAPTURED BY CAMERA SHALL BE DISPLAYED IN FULL-SCREEN VIEW ON THE CCTV WORKSTATION AND RECORDED AS "ALARM/EVENT MODE."
 - B. SYSTEM SHALL ALLOW CAMERAS TO INITIATE PRE-POSITIONING, VIEWING AND RECORDING. WHEN TWO OR MORE CAMERAS ARE SIMULTANEOUSLY DESIGNATED FOR EVENT RECORDING, THEY SHALL EACH BE RECORDED IN "ALARM/EVENT" MODE AND BE DISPLAYED ON ONE SCREEN.
7. ALL DOOR HARDWARE COMPONENTS SHALL BE PART OF AND COORDINATED WITH PROJECT DOOR SCHEDULES AND DOOR INSTALLING CONTRACTOR.
8. THE INTENT OF THE PLAN DRAWINGS IS TO GUIDE THE CONTRACTOR IN THE INSTALLATION AND IMPLEMENTATION OF THE SYSTEM, AND SHALL NOT BE CONSIDERED AS FINAL OR COMPLETE DESIGN. THE CONTRACTOR SHALL INCLUDE AS PART OF HIS BID ALL REQUIRED MATERIALS AND LABOR, INCLUDING BUT NOT LIMITED TO ACCESS CONTROL DEVICES, CABLING, CONNECTIONS, PATHWAYS, FIRESTOPPING, HARDWARE, SOFTWARE, UPS/BATTERY BACKUP, PROGRAMMING AND INTERFACE WITH OTHER SYSTEMS, LICENSES AND WARRANTIES, FOR A COMPLETE AND FULLY-OPERATIONAL SYSTEM.
9. THE LIST BELOW SHALL BE UTILIZED AS BASIS OF DESIGN FOR THE ACCESS CONTROL SYSTEM. IT IS NOT A COMPLETE LIST OF PARTS/MATERIALS BUT A GUIDE. CONTRACTOR SHALL AUGMENT AND PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE AND FULLY-OPERATIONAL SYSTEM.
 - A. **APPROVED MANUFACTURERS:** RS2 TECHNOLOGIES, ALLEGION AND HID
 - B. **SYSTEM CONTROLLER:** RS2 TECHNOLOGIES SYSTEM CONTROLLER WITH ENTERPRISE-WIDE "ACCESS ITI" SOFTWARE AND WEB LICENSE "ACCESS ITI" UNIVERSAL BROWSER INTERFACE
 - C. **PROXIMITY READERS:** HID MULTI CLASS SE READER (13.56MHZ), HID RP10, RP15, RP40. PROVIDE WITH OPTIONAL IP65GSKT GASKET FOR EXTERIOR DEVICE LOCATIONS.
 - D. **CREDENTIALS (KEY FOBS):** HID ICLASS KEY II (13.56MHZ)
 - E. **POWER SUPPLIES:** ALTRONIX AL600 SERIES
 - F. **UPS:** APC SMART UPS (4-HOURS MINIMUM)
 - G. **PANIC HARDWARE:** VON DUPRIN SERIES #99 OR #33 (WITH ELECTRIFIED TRIM)
 - H. **MAGNETIC DOOR CONTACTS:** SENTROL 1078CT
 - I. **REQUEST-TO-EXIT SENSORS:** BOSCH DS160
 - J. ACCESS CONTROL CABLES (SHIELDED AND/OR PLENUM-RATED AS REQUIRED):
 - LOCK/POWER - 14AWG/2C
 - PROXIMITY READER - 18AWG/6C
 - DOOR CONTACT - 18AWG/2C
 - REQUEST-TO-EXIT - 18AWG/4C

KEYNOTES

- 1 ACCESS CONTROL PANEL (ACCP). PROVIDE A KEYED LOCKABLE ENCLOSURE, DIGITAL ALARM COMMUNICATOR, 120 VOLT POWER SUPPLY AND TRANSFORMER, SECONDARY BATTERIES (OR CONNECTION TO SUPPLEMENTAL EMERGENCY POWER) AND CHARGER, OWNER'S MANUAL, WARRANTY STATEMENT. PROVIDE ALL MODULES AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 2 TELEPHONE SYSTEM BACKUP INTERFACE. PROVIDE (1) CAT 6 4-PAIR UTP CABLE TO ACCESS CONTROL PANEL. COORDINATE PHONE LINE REQUIREMENTS WITH OWNER/ARCHITECT.
- 3 PRIMARY ETHERNET SYSTEM INTERFACE. PROVIDE (1) CAT 6 4-PAIR UTP CABLE TO ACCESS CONTROL PANEL. COORDINATE REQUIREMENTS WITH OWNER/ARCHITECT.
- 4 FLUSH-MOUNT DOOR CONTACT (SEPARATE FROM INTRUSION DETECTION).
- 5 CARD READER SHALL BE UNIVERSAL TYPE WITH HID KEYFOBS OR PROXIMITY CARDS PER OWNER'S SELECTION. SURFACE MOUNT OVER FLUSH BACKBOX.
- 6 ELECTRIFIED DOOR LOCK HARDWARE. PROVIDE CONDUIT AND CONDUCTORS TO DOOR HARDWARE INCLUDING CONNECTIONS TO ALL ELECTRIFIED EQUIPMENT AS IDENTIFIED ON PLAN AND COORDINATED WITH ARCHITECTURAL DOOR SCHEDULES. COORDINATE ROUTING OF CONDUIT/CONDUCTORS FOR CONNECTIONS WITH DOOR INSTALLER/CONTRACTOR PRIOR TO INSTALLATION.
- 7 REQUEST-TO-EXIT SWITCH BUILT-INTO DOOR HARDWARE. CONFIRM WITH DOOR HARDWARE CONSULTANT/VENDOR.

TYPICAL ACCESS CONTROL WIRING DIAGRAM

SCALE
NTS 1



SINGLE DOOR WITH CARD READER

SCALE
NTS 2

EXTEND CONDUIT TO MPOE / MDF OR NEAREST ACCESSIBLE CEILING SPACE

1" CONDUIT

4"x4"x2-1/8" BACKBOX, UON

HARD LID CEILING

IP CAMERA

DRAWING SYMBOL:

IP CAMERA, CEILING-MOUNTED

SCALE
NTS

3

EXTEND CONDUIT TO MPOE / MDF OR NEAREST ACCESSIBLE CEILING SPACE

WALL

1" CONDUIT

IP CAMERA

4"x4"x2-1/8" BACKBOX, UON

DRAWING SYMBOL:

IP CAMERA, WALL-MOUNTED

SCALE
NTS

2

PROVIDE (1) CAT 6 4-PAIR UTP CABLE PER CAMERA

CABLING TO MPOE / MDF

MPOE / MDF

CAT 6 PATCH PANELS

PROVIDE CAT 6 PATCH CORDS

POE SWITCHES

IP CAMERA CEILING MOUNT


IP CAMERA WALL MOUNT

NOTE:
RACK-MOUNTED CCTV HEADEND EQUIPMENT SHALL BE LOCATED IN MPOE/MDF.

TYPICAL CCTV WIRING DIAGRAM

SCALE
NTS

1



salasobrien.com

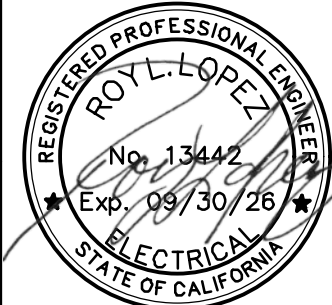
IrVine

8825 Research Drive

IrVine, CA 92618

848.731.1803

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LOW VOLTAGE
CABLE SCHEDULES

MATV SYSTEM

THE INTENT OF THE SYSTEM IS TO PROVIDE DIGITAL HDTV SIGNALS TO THE BUILDING VIA A TV ANTENNA RECEIVING OFF AIR TV TRANSMISSION SIGNALS. THE SYSTEM SHALL CONSIST OF AN HDTV ANTENNA WITH MOUNT, OUTDOOR COAXIAL CABLE, INDOOR COAXIAL CABLE, A DISTRIBUTION AMPLIFIER, TAPS AND REQUIRED NUMBER OF DROPS AS INDICATED ON THE PLANS. THE COMMUNICATIONS CONTRACTOR/VENDOR SHALL USE PADS AS NECESSARY TO PREVENT OVERLOAD OF THE SIGNAL.

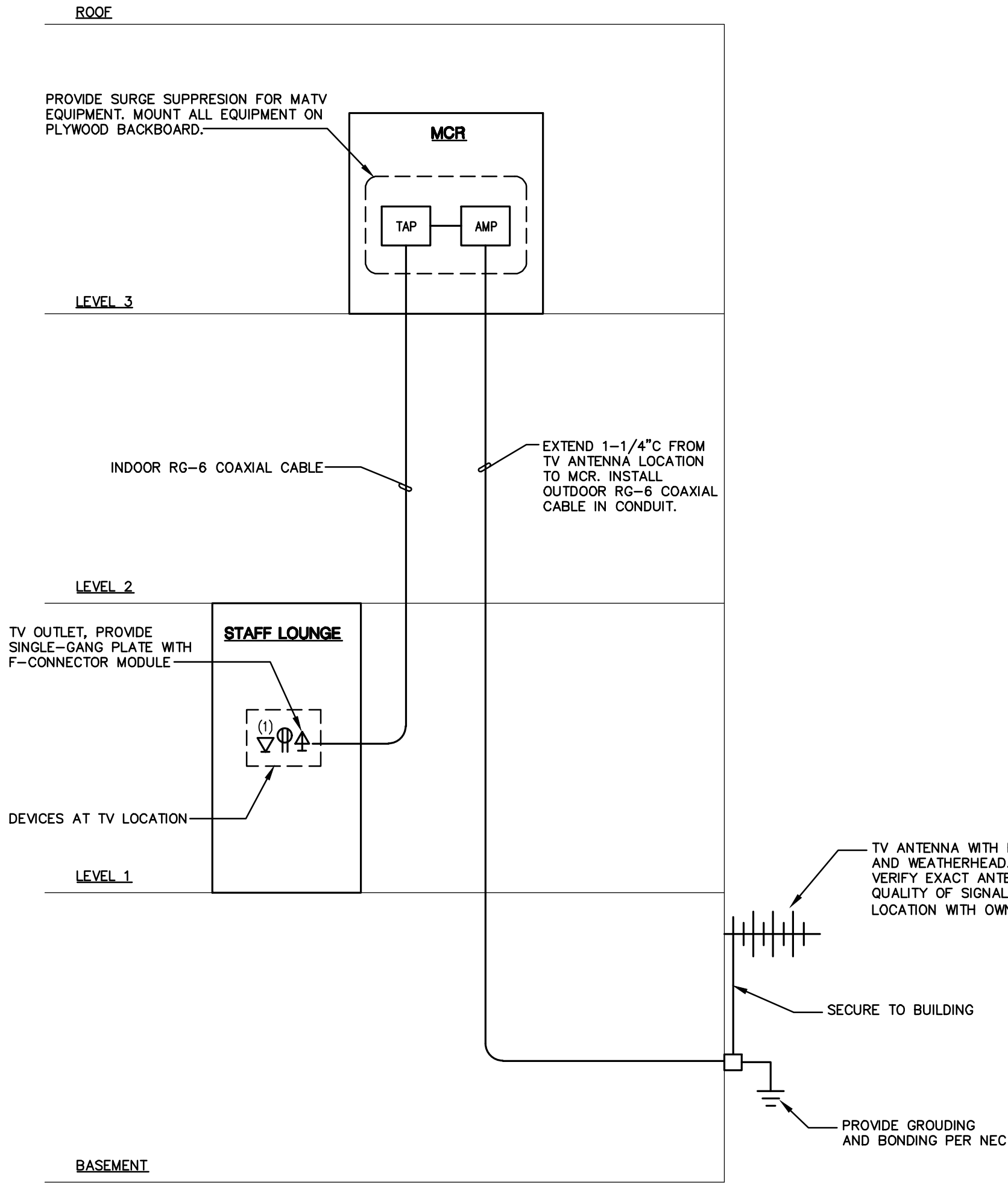
THE MATV SYSTEM (INCLUDING LEAD IN CABLE AND ANTENNA MAST) SHALL BE GROUNDED IN ACCORDANCE TO THE NATIONAL ELECTRIC CODE. THE INSTALLATION SHALL COMPLY WITH ALL NATIONAL ELECTRIC CODES, BUILDING, AND FIRE CODES. COMMUNICATIONS CONTRACTOR SHALL ALSO INSTALL SURGE SUPPRESSION EQUIPMENT FOR THE MATV SYSTEM.

THE TV ANTENNA SHALL BE MOUNTED ON A HEAVY-DUTY TV ANTENNA MAST AND SECURELY MOUNTED TO THE BUILDING. AN INCH AND A QUARTER (1.25") CONDUIT WITH WEATHER HEAD SHALL BE INSTALLED NEXT TO THE TV ANTENNA. THE CONDUIT SHALL RUN FROM THE TV ANTENNA LOCATION TO THE MCR (MAIN COMMUNICATIONS ROOM).

THE COMMUNICATIONS CONTRACTOR SHALL FURNISH AND INSTALL THE EXTERNAL COAXIAL CABLING FROM THE TV ANTENNA TO THE MCR IN THE CONDUIT AND CONNECT TO THE DISTRIBUTION AMPLIFIER IN THE MCR. THE COMMUNICATIONS CONTRACTOR SHALL FURNISH AND INSTALL INTERNAL COAXIAL CABLING FROM THE DISTRIBUTION AMPLIFIER AND TAPS TO THE TV OUTLETS. EACH TV OUTLET SHALL HAVE AN INDIVIDUAL COAXIAL CABLE HOME RUN TO THE TAP. THE CONTRACTOR SHALL FURNISH, INSTALL, AND CONNECT RG6 COAX CABLING FROM THE OUTPUT OF THE DISTRIBUTION AMPLIFIER TO THE INPUT OF THE TAP. THE MATV SYSTEM SHALL HAVE A MINIMUM OF EIGHT (8) OUTPUT PORTS TO DISTRIBUTE THE MATV SIGNALS TO THE TVs.

THE COMMUNICATIONS CONTRACTOR SHALL BALANCE, AMPLIFY OR PAD THE TV SIGNALS AND ENSURE THAT EACH TV HAS A MINIMUM OF -40DBM AT THE TV INPUT FOR ALL CHANNELS. THE COMMUNICATIONS CONTRACTOR SHALL ENSURE THAT ALL TVS SHALL DISPLAY A CLEAR PICTURE FOR ALL CHANNELS. THE COMMUNICATIONS CONTRACTOR SHALL FURNISH AND INSTALL ALL OTHER MATERIALS NOT LISTED TO DELIVER A FULLY FUNCTIONAL MATV SYSTEM. THE COMMUNICATIONS CONTRACTOR SHALL APPLY SECTION 3.5.1 ITEMS A THRU D. WITH REGARDS TO THE LOW VOLTAGE CABLING FOR THE MATV SYSTEM.

- MATERIALS AND EQUIPMENT**
- A. DISTRIBUTION AMPLIFIER – PICO MACOM, INC. TA-36 (IF NECESSARY).
 - B. TV ANTENNA – WINEGARD
 - C. OUTDOOR COAXIAL CABLE – WESTPENN –AOC841 W/MOISTURE BLOCKING
 - D. INDOOR COAXIAL CABLE – WESTPENN 25841
 - E. F CONNECTORS – WESTPENN CN-F6MCM.
 - F. TV WALL PLATE – PANDUIT GFL38BY
 - G. F CONNECTOR MODULE – PANDUIT CMFSRIWY.
 - H. CAT 6 MODULE (CJ688TGOR)
 - I. BLANK MODULE – PANDUIT CMBWH-Y.
 - J. TAP – BLONDER TONGUE DOT-B.110B.
 - K. SURGE PROTECTOR – TII TECHNOLOGIES Z12FF75F225-31
 - L. MISCELLANEOUS MATERIALS – ALL MATERIALS NECESSARY TO FURNISH AND INSTALL A COMPLETE AND FULLY FUNCTIONAL SYSTEM.



NOTE:
CABLE ROUTE IS SHOWN DIAGRAMMATICALLY. CONTRACTOR TO FIELD-VERIFY EXACT ROUTE AND LOCATION.

MATV ONE-LINE DIAGRAM

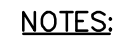
SCALE	2
NTS	

TELECOMMUNICATIONS, CCTV & DOOR VIDEO INTERCOM				
GENSPEED 6000 ENHANCED CAT 6 CABLE 23 AWG, SOLID BARE ANNEALED COPPER, 4-PAIR, UTP, PLENUM-RATED NOMINAL O.D. = 0.215"				
CONDUIT SIZE		MAXIMUM NUMBER OF CABLES		
3/4"		4		
1"		8		
1-1/4"		12		
2"		33		
3"		74		
4"		132		
ACCESS CONTROL & INTRUSION DETECTION				
DEVICE	CABLE	NOMINAL O.D.	CONDUIT SIZE	MAXIMUM # OF CABLES
MOTION DETECTOR	18AWG/4C SHIELDED, CMP	0.2"	3/4"	4
GLASS BREAK DETECTOR			1"	10
KEYPAD			1-1/4"	15
DOOR CONTACTS			2"	40
CARD READER	COMPOSITE CABLE WITH (4) SUBUNIT CABLES AS FOLLOWS:	0.4"	3/4"	2
	(1) 18AWG/4C SHIELDED, CMP - LOCK POWER		1"	3
	(1) 18AWG/2C & 22AWG/4C SHIELDED, CMP - CARD READER			
	(1) 22AWG/2C SHIELDED, CMP - DOOR CONTACT			
	(1) 22AWG/4C SHIELDED, CMP - REQUEST-TO-EXIT	1-1/4"	4	
ELECTRIFIED HINGE	18AWG/4C SHIELDED, CMP	0.25"	3/4"	3
ALARM SIREN	18AWG/2C SHIELDED, CMP	0.15"	3/4"	10
RESTROOM DOOR RELEASE				
DEVICE	CABLE	NOMINAL O.D.	CONDUIT SIZE	MAXIMUM # OF CABLES
DOOR RELEASE SWITCH	18AWG/2C SHIELDED, CMP	0.2"	3/4"	4
DOOR RELEASE BUTTON				
OVERHEAD PAGING				
DEVICE	CABLE	NOMINAL O.D.	CONDUIT SIZE	MAXIMUM # OF CABLES
SPEAKER	16AWG/2C SHIELDED, CMP	0.2"	3/4"	4
			1"	10

NOTES:
AWG = AMERICAN WIRE GAUGE
CMP = COMMUNICATIONS MULTI-PURPOSE, PLENUM
O.D. = OUTSIDE DIAMETER

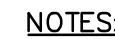
LOW VOLTAGE CABLE SCHEDULES

SCALE	1
NTS	



1. THIS DETAIL APPLIES TO THE FOLLOWING ROOMS:
 - STUDY T1 104
 - STUDY T2 105
 - MAKER SPACE 103
2. CONTRACTOR SHALL PROVIDE ALL AV AND DATA ROUGH-IN, DEVICES, CABLING, FACEPLATES, CONNECTORS AND EQUIPMENT SHOWN IN THIS DETAIL.
3. REFERENCE "AV EQUIPMENT MATRIX" DETAIL 3.0 ON THIS SHEET FOR ADDITIONAL REQUIREMENTS.
4. POWER RECEPTACLES SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL DRAWINGS FOR REQUIREMENTS.

SCALE	2
NONE	



1. THIS DETAIL APPLIES TO COMMUNITY MEETING ROOM 113 ONLY.
2. CONTRACTOR SHALL PROVIDE ALL AV AND DATA ROUGH-IN, DEVICES, CABLING, FACEPLATES, CONNECTORS AND EQUIPMENT SHOWN IN THIS DETAIL.
3. REFERENCE "AV EQUIPMENT MATRIX" DETAIL 3 ON THIS SHEET FOR ADDITIONAL REQUIREMENTS.
4. POWER RECEPTACLES SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL DRAWINGS FOR REQUIREMENTS.
5. CONFIRM ALL DEVICE AND EQUIPMENT MOUNTING HEIGHTS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.

SCALE	1
NONE	



1. THIS DETAIL APPLIES TO THE FOLLOWING ROOMS:
 - * STUDY T2 204 (POKE-THRU AND WALL-MOUNTED AV INPUT DEVICES)
 - * STUDY T1 205 (POKE-THRU AND WALL-MOUNTED AV INPUT DEVICES)
 - * AIRC GROUP STUDY 203 (WALL-MOUNTED AV INPUT DEVICE ONLY)
2. CONTRACTOR SHALL PROVIDE ALL AV AND DATA ROUGH-IN, DEVICES, CABLING, FACEPLATES, CONNECTORS AND EQUIPMENT SHOWN IN THIS DETAIL.
3. REFERENCE "AV EQUIPMENT MATRIX" DETAIL 3 ON THIS SHEET FOR ADDITIONAL REQUIREMENTS.
4. POWER RECEPTACLES SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL DRAWINGS FOR REQUIREMENTS.

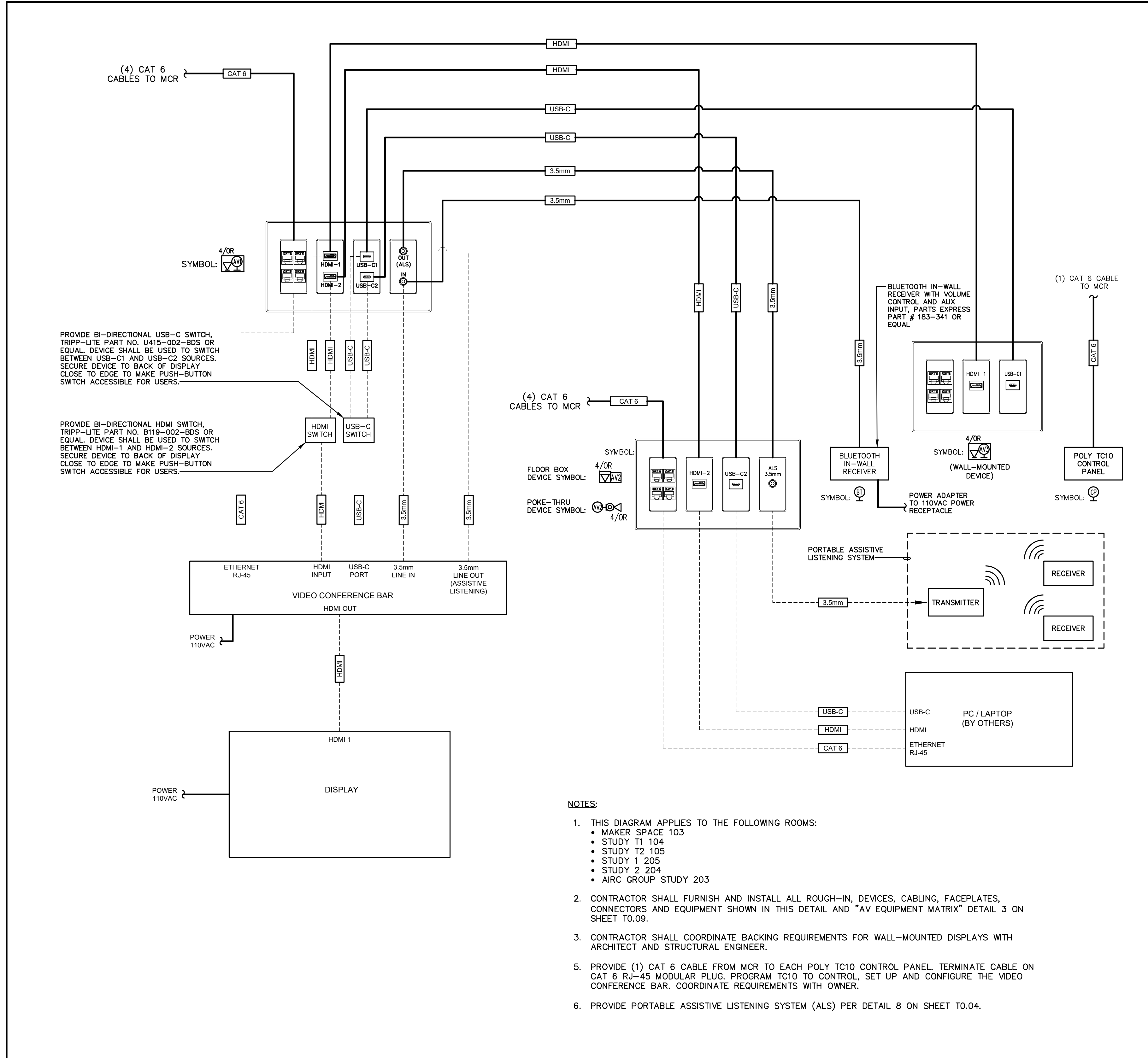
SCALE	4
NONE	

SCALE	3
NONE	

AV EQUIPMENT MATRIX						
ROOM	DISPLAYS			WALL MOUNT BRACKET	VIDEO CONFERENCE BAR	CONTROL PANEL
	DISPLAY SIZE	QUANTITY	MANUFACTURER AND MODEL			
COMMUNITY MEETING ROOM 113	100"	1	SAMSUNG QN100N80FFXZA QLED 4K TV	KANTO PMX700 (FULL MOTION)	POLY STUDIO X72	POLY TC10
MAKER SPACE 103	85"	1	SAMSUNG R55Q60D QLED 4K TV	PEERLESS-AV SMARTMOUNT STS650	POLY STUDIO X72	POLY TC10
STUDY T1 104	55"	1	SAMSUNG 55Q60D QLED 4K TV	CHIEF THINSTALL TS525TU SWING ARM MOUNT FOR 42"-75" DISPLAYS	POLY STUDIO X52	POLY TC10
STUDY T2 105	55"	1	SAMSUNG 55Q60D QLED 4K TV	CHIEF THINSTALL TS525TU SWING ARM MOUNT FOR 42"-75" DISPLAYS	POLY STUDIO X52	POLY TC10
STUDY 1 205	55"	1	SAMSUNG 55Q60D QLED 4K TV	CHIEF THINSTALL TS525TU SWING ARM MOUNT FOR 42"-75" DISPLAYS	POLY STUDIO X52	POLY TC10
STUDY 2 204	55"	1	SAMSUNG 55Q60D QLED 4K TV	CHIEF THINSTALL TS525TU SWING ARM MOUNT FOR 42"-75" DISPLAYS	POLY STUDIO X52	POLY TC10
AIRC GROUP STUDY 203	55"	1	SAMSUNG 55Q60D QLED 4K TV	CHIEF THINSTALL TS525TU SWING ARM MOUNT FOR 42"-75" DISPLAYS	POLY STUDIO X52	POLY TC10
STAFF LOUNGE 121	55"	1	SAMSUNG 55Q60D QLED 4K TV	CHIEF THINSTALL TS525TU SWING ARM MOUNT FOR 42"-75" DISPLAYS	NONE	NONE
MAIN ENTRANCE DIGITAL DISPLAY	55"	1	SAMSUNG 55Q60D QLED 4K TV	CHIEF THINSTALL TS525TU SWING ARM MOUNT FOR 42"-75" DISPLAYS	NONE	NONE

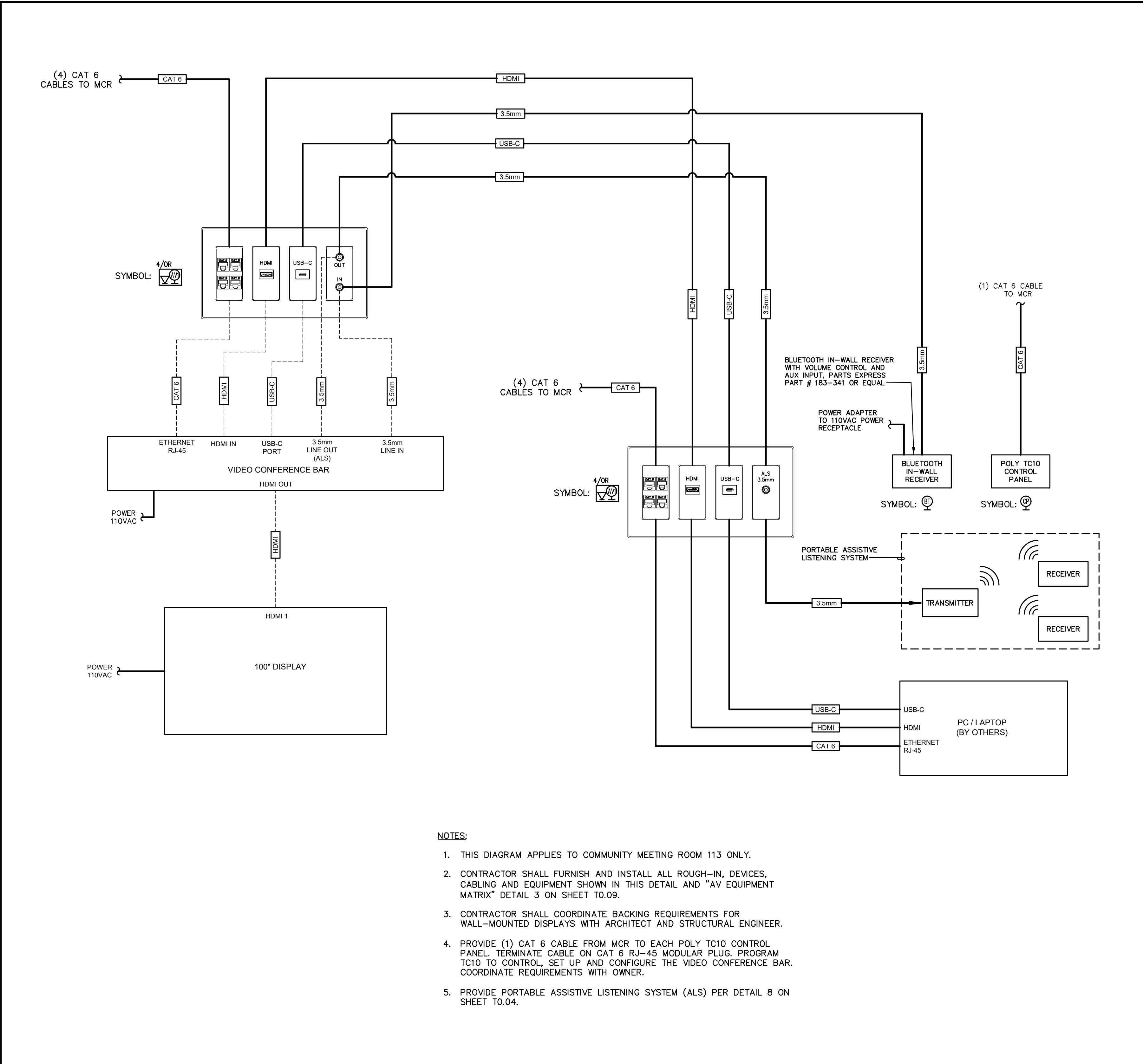
- NOTES:

1. CONTRACTOR SHALL PROVIDE AND INSTALL ALL EQUIPMENT SHOWN IN THIS SCHEDULE. PROVIDE REQUIRED BACKING, MOUNTING BRACKETS AND MISCELLANEOUS APPURTENANCES FOR A COMPLETE AND FULLY OPERATIONAL AV SYSTEM.
2. CONTRACTOR SHALL VERIFY MANUFACTURER AND MODEL NUMBER OF PRODUCTS WITH OWNER PRIOR TO ORDERING.



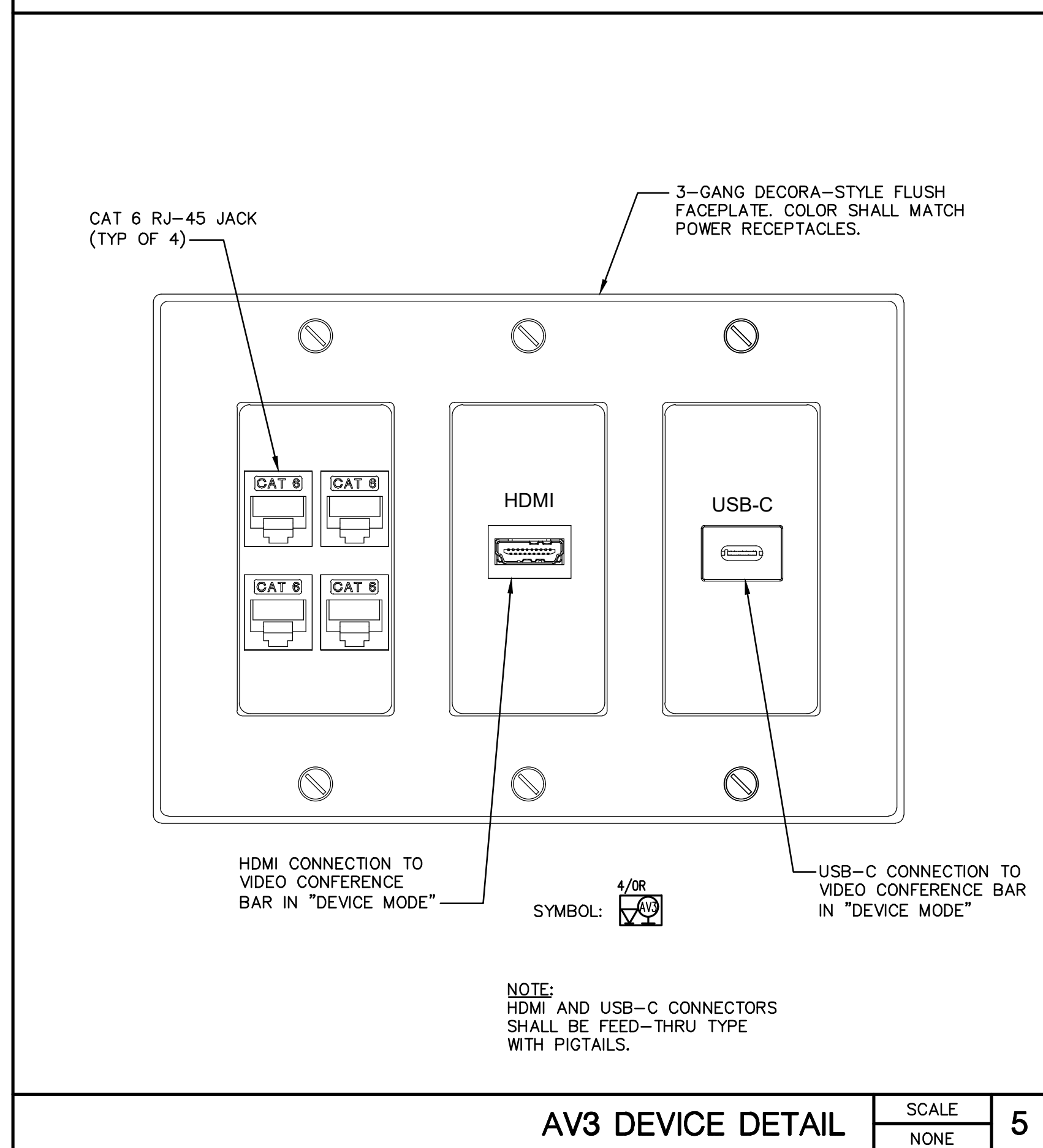
TYPICAL AV WIRING DIAGRAM

SCALE: NONE 2



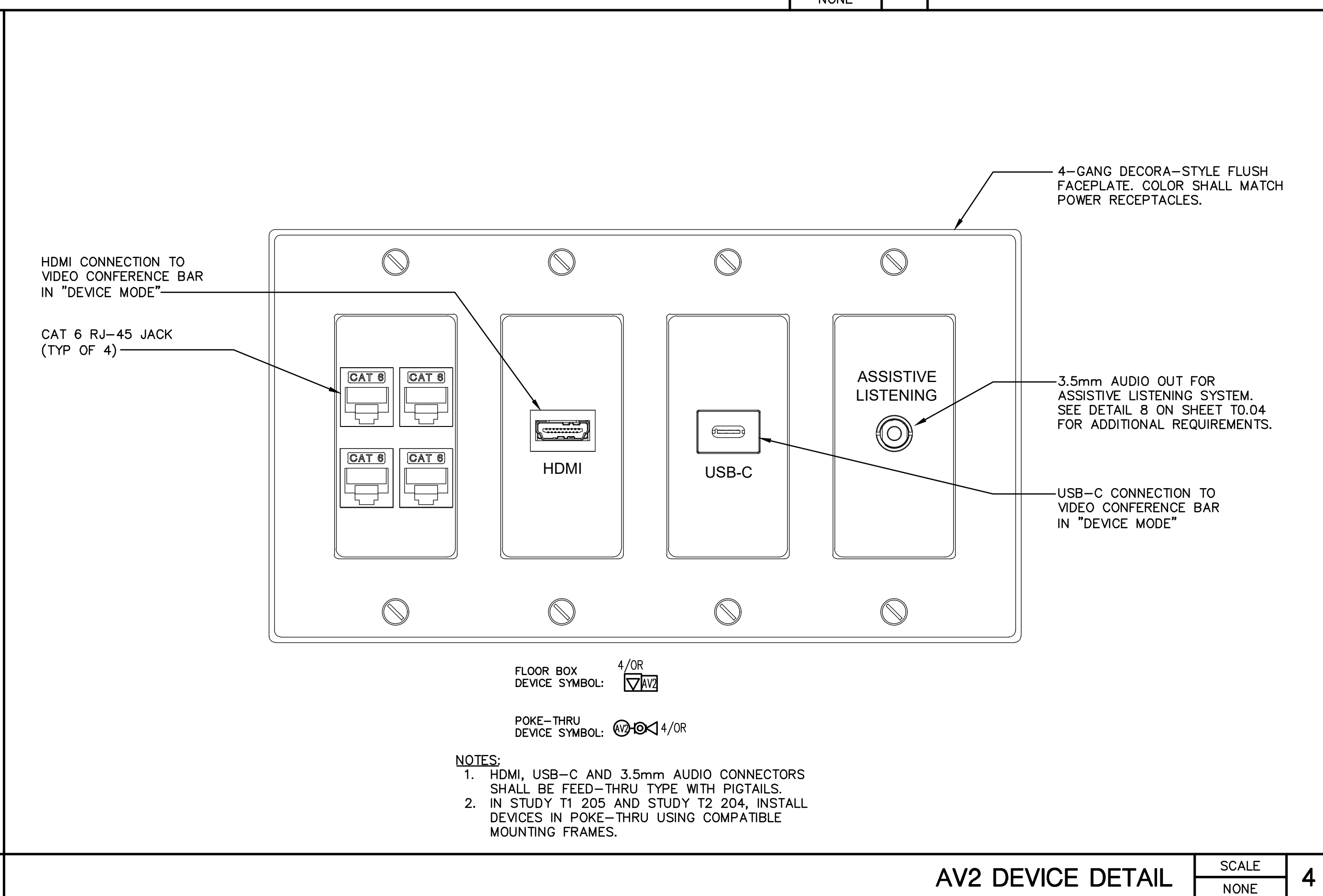
AV WIRING DIAGRAM - COMMUNITY MEETING ROOM 113

SCALE: NONE 1



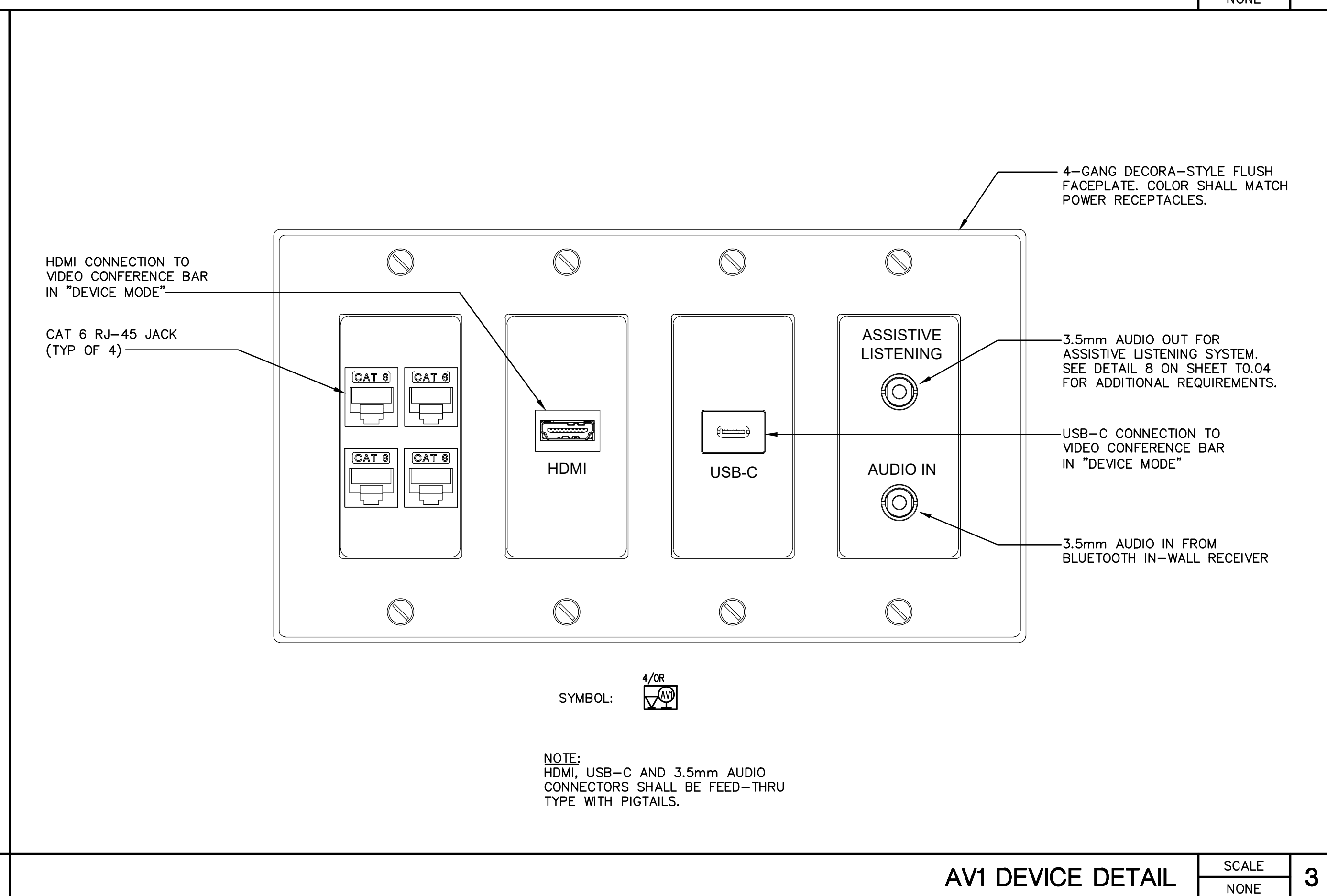
AV3 DEVICE DETAIL

SCALE: NONE 5



AV2 DEVICE DETAIL

SCALE: NONE 4



AV1 DEVICE DETAIL

SCALE: NONE 3