

ELECTRICAL SYMBOLS AND ABBREVIATIONS			
MARK	DESCRIPTION	MARK	DESCRIPTION
A	ABOVE COUNTER. REFER DETAIL 9E-001	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
AFF/AFG	ABOVE FINISHED FLOOR/GRADE	GND	GROUND
ALT	ALTERNATE	HOA	HAND OFF AUTOMATIC
AMP	AMPERE	IN	INCHES
APPROX	APPROXIMATE	KW	KILOWATTS
ARCH	ARCHITECT/ARCHITECTURAL	MCC	MOTOR CONTROL CENTER
ATS	AUTOMATIC TRANSFER SWITCH	MDP	MAIN DISTRIBUTION PANEL
C	CONDUIT	MECH	MECHANICAL
CLG	CEILING	MTS	MANUAL TRANSFER SWITCH
DISC	DISCONNECT SWITCH	NC	NORMALLY CLOSED
EC	ELECTRICAL CONTRACTOR	NEC	NATIONAL ELECTRIC CODE, NFPA 70
EXIST	EXISTING	NIC	NOT IN CONTRACT
EP	EXPLOSION PROOF	NL	NIGHT LIGHT
FT	FEET	NO	NORMALLY OPEN
GC	GENERAL CONTRACTOR	NTS	NOT TO SCALE
	HALFTONE SYMBOL INDICATES EXISTING		TAMPER RESISTANT NEMA 5-20R DUPLEX RECEPTACLE
	DASHED SYMBOL INDICATES DEMOLITION		TAMPER RESISTANT NEMA 5-20R QUADPLEX RECEPTACLE (2 DUPLEX RECEPTS IN A 2-GANG BOX)
	ELECTRICAL 480V PANELBOARD		TAMPER RESISTANT NEMA 5-20R DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
	ELECTRICAL 208V PANELBOARD		NEMA 5-20R DUPLEX RECEPTACLE MOUNTED IN CEILING
	DISCONNECT SWITCH FUSIBLE UNLESS OTHERWISE NOTED. NUMBERS INDICATE FRAME/USE/POLE.		TAMPER RESISTANT NEMA 5-20R DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER TYPE
	DISCONNECT SWITCH NON FUSIBLE UNLESS OTHERWISE NOTED. NUMBERS INDICATE FRAME, FUSE, POLE		WEATHER AND TAMPER RESISTANT NEMA 5-20R DUPLEX RECEPTACLE OR SAME IN WEATHERPROOF ENCLOSURE
	CONTACTORMAGNETIC MOTOR STARTER OR COMBINATION TYPE		WEATHER AND TAMPER RESISTANT NEMA 5-20R DUPLEX RECEPTACLE OR SAME IN WEATHER RESISTANT ENCLOSURE
	VFD W/ DISCONNECTING MEANS		NEMA 5-20R DUPLEX RECEPTACLE/ISOLATED GROUND TYPE
	FIRE ALARM CONTROL PANEL		NEMA 5-20R ISOLATED GROUND QUADPLEX RECEPTACLE, ORANGE COLOR
	FIRE ALARM ANNUNCIATOR PANEL		TAMPER RESISTANT SPLIT DUPLEX, NEMA 5-20R DUPLEX RECEPTACLE MOUNTED AT 18" WITH TWO CIRCUITS
	SIGNAL POWER EXTENDER		TAMPER RESISTANT USB A/C TYPE RECEPTACLE (LEVITON 1883 OR EQUAL)
	GENERATOR ANNUNCIATOR PANELBOARD		ELECTRIC WATER COOLER, NEMA 5-20R DUPLEX RECEPT, MOUNT PER MANUFACTURER'S REQUIREMENTS. PROVIDE GFCI BREAKER.
	MOTOR OUTLET/CONNECTION - SEE SCHEDULE		SPECIAL OUTLET - SEE DEVICE SCHEDULE
	EQUIPMENT CONNECTION - SEE SCHEDULE		SPECIAL OUTLET - POKE THRU - SEE SCHEDULE
	MECHANICAL EQUIPMENT TAG		FURNITURE FEED - FLOOR BOX - TRIM COLOR TBD
	OWNER EQUIPMENT TAG		FURNITURE FEED - POKE THRU - TRIM COLOR TBD
	RISER OR CONDUIT TURNED DOWN		FLOOR BOX - DUPLEX WITH METALLIC FLIP COVER
	RISER OR CONDUIT TURNED UP		FLOOR BOX - QUAD WITH METALLIC FLIP COVER
	CAP ON PIPE		JUNCTION BOX (J-BOX OR JB)
	OPEN CONDUIT END		INFRARED PLUMBING MOTION SENSOR
	TEST PORT		POWER POLE
	HOMERUN WITH BRANCH CIRCUIT(S) AS INDICATED		OVERHEAD POWERED DOOR
	PARTIAL HOMERUN WITH BRANCH CIRCUIT(S) AS INDICATED		PULL BOX
	EMERGENCY CIRCUIT		SPEAKER (WALL OR CEILING MOUNTED)
	LOW VOLTAGE CIRCUIT		PUSH BUTTON
	NORMAL CIRCUIT		START STOP
	UNDERGROUND CIRCUIT		

GENERAL ELECTRICAL REQUIREMENTS:

1. ELECTRICAL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE ADOPTED EDITIONS OF THE INTERNATIONAL BUILDING (IBC), ELECTRICAL (NEC), AND FIRE (IFC) CODES, NFPA 13, 70, 90A, 101 AND ALL LOCAL AMENDMENTS AND REGULATIONS. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE DRAWINGS AND SHALL BE PERFORMED WITH THE LATEST INDUSTRY ACCEPTED STANDARDS. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND APPLICABLE CODES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE MORE STRINGENT OF THE TWO SHALL BE FOLLOWED. ALL WORK SHALL BE CONDUCTED IN A SAFE MANNER WITH ADEQUATE PROTECTION FOR THE NEW WORK, EXISTING PROPERTY, AND THE GENERAL PUBLIC.

2. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF EXISTING CONDITIONS, NEW WORK, PATCHING, ETC., REQUIRED BY THE PROJECT, AND TO BECOME FAMILIAR WITH THE WORK CONDITIONS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR WORK INDICATED OR REQUIRED FOR WORK PROVIDED DURING NON-STANDARD HOURS, FOR WORK REQUIRED TO MAINTAIN BUILDING SAFETY AND FUNCTION, FOR WORK TO PATCH/REPAIR BUILDING SYSTEMS AND FINISHES, OR ANY OTHER WORK RESULTING FROM REQUIRED NEW WORK, RECONNECTION, AND/OR DEMOLITION OPERATIONS.

3. THE WORK REQUIRED IS DIAGRAMMATICALLY INDICATED ON THE DRAWINGS. IT IS IMPRACTICAL TO INDICATE ALL REQUIRED MODIFICATIONS AND PATCHING IN EVERY DETAIL. IT IS THE INTENT OF THIS PROJECT TO EXTEND EXISTING SYSTEMS AND PROVIDE NEW SYSTEMS AS INDICATED. COMPLETE IN EVERY RESPECT WHETHER OR NOT SPECIFICALLY DETAILED. INFORMATION ON EXISTING UTILITIES, BUILDINGS, AND SITE LAYOUT HAS BEEN TAKEN FROM OWNER'S & CIVIL ENGINEER'S DRAWINGS AND LIMITED SITE SURVEYS. LOCATIONS, SIZES, QUANTITIES, ETC., ARE APPROXIMATE & ARE INDICATED TO ASSIST IN OUTLINING THE SCOPE OF THE WORK. CONTRACTOR ACKNOWLEDGES THAT EXISTING CONDITIONS HAVE BEEN VERIFIED AND ARE ACCEPTABLE. VARIATIONS AND CONCEALED CONSTRUCTION SHALL BE BROUGHT TO OWNER'S ATTENTION FOR RESOLUTION PRIOR TO COMMENCING APPLICABLE WORK.

4. PROTECT EXISTING CONSTRUCTION & COMPONENTS WHICH ARE TO REMAIN, REPAIR, TO PRE-DISTURBED CONDITION, ANY DAMAGE RESULTING FROM DEMOLITION OR NEW CONSTRUCTION OPERATIONS (CONCEALED CONDITIONS MAY EXIST THAT WILL REQUIRE MINOR REVISIONS IN ARRANGEMENT OF PIPING, VALVES, ATTACHMENTS, CONDUIT, ETC. EXISTING UTILITIES DAMAGED BY CONTRACTOR DURING NEW PIPING, CONDUIT OR EQUIPMENT INSTALLATION SHALL BE REPAIRED TO OWNER'S SATISFACTION.

5. ELECTRICAL SYSTEM PENETRATIONS THROUGH NEW & EXISTING WALLS, FLOOR/CEILING, OR ROOF CONSTRUCTION SHALL BE THOROUGHLY FILLED WITH FIRE RESISTANT MATERIAL (STUFFING FIBRE-FLEX DURA BLANKET IN CAVITIES) AND SEALED WITH 3M BRAND FIRE BARRIER CAULK. CP25. ALL FIRE STOPPING SHALL BE EQUAL TO OR BETTER THAN ASSEMBLY PENETRATED. PENETRATION OF ALL FIRE BARRIERS SHALL NOT IMPAIR THE INTEGRITY OF THE BARRIER. ALL SLEEVED OPENINGS SHALL BE FINISHED IN SUCH A MANNER THAT MAINTAINS THE FIRE RESISTANCE.

6. ELECTRICAL EQUIPMENT INSTALLATIONS SHALL BE IN FULL ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL MEET CURRENT INDUSTRY STANDARDS. WHERE APPLICABLE, EQUIPMENT SHALL BEAR TESTING LABORATORY LABELS. TEST ALL EQUIPMENT FOR PROPER OPERATION. ALL NEW MATERIALS AND EQUIPMENT SHALL BE OF FIRST QUALITY AND FREE FROM DEFECTS.

7. CONTRACTOR SHALL SUBMIT PRODUCT DATA OF ALL PROPOSED MATERIALS AND EQUIPMENT FOR APPROVAL.

8. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL, WIRING, AND/OR SYSTEMS SPECIFIED AND REQUIRED IN THE PROJECT. CONTRACTOR SHALL MAINTAIN PROPER CLEARANCES BETWEEN MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTS, PIPES, OR EQUIPMENT SHALL NOT INTRUDE ON ELECTRICAL CLEARANCE SPACE AS DEFINED IN THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE.

9. ALL NECESSARY PERMITS, LICENSES, CERTIFICATES, TESTS, ETC., SHALL BE OBTAINED BY THE CONTRACTOR, INCLUDED IN THE PROJECT COST AND BID, WITHOUT ADDITIONAL COST TO THE OWNER OR ENGINEER.

10. THE CONTRACTOR SHALL UPDATE RECORD DRAWINGS DAILY. ANNOTATE "AS INSTALLED" CONDITIONS IN RED INK ON HARD COPIES, INDICATING ALL CHANGES FROM THE ORIGINAL DRAWINGS MADE DURING THE INSTALLATION OF THE WORK. AT COMPLETION OF THE PROJECT, THE RECORD DRAWINGS SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE.

11. THE CONTRACTOR SHALL PROVIDE A MINIMUM ONE YEAR WARRANTY ON ALL MATERIALS AND LABOR, UNLESS NOTED OTHERWISE.

12. CONDITIONS MAY OCCUR THAT WILL REQUIRE MINOR REVISIONS IN ARRANGEMENT OF DUTYWORK, ATTACHMENTS, CONDUIT, ETC., ON VARIOUS SYSTEMS. SUCH MODIFICATIONS ARE DEEMED A PART OF THIS CONTRACT, AND SHALL BE SUBMITTED FOR REVIEW PRIOR TO COMMENCEMENT OF WORK.

13. ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICAN DISABILITIES ACT (A.D.A.) AND ALL STATE REQUIREMENTS.

14. CONTRACTOR SHALL COORDINATE ALL CONNECTION REQUIREMENTS OF OWNER-FURNISHED EQUIPMENT & EQUIPMENT FURNISHED BY OTHERS. PROVIDE NECESSARY MATERIAL AND LABOR FOR A COMPLETE INSTALLATION.

15. ALL PATCHING AND PAINTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE PATCHING AND PAINTING AS A RESULT OF MECHANICAL AND ELECTRICAL ALTERATIONS, CHANGES, AND ADDITIONS. COORDINATE WITH ARCHITECT.

16. SPACE IS LIMITED IN PORTIONS OF THIS PROJECT AND CLOSE COORDINATION WILL BE REQUIRED. CONTRACTOR SHALL COORDINATE TRASSES INVOLVED COORDINATION DURING INSTALLATION OF NEW DUTYWORK, ELECTRICAL, AND DEVICES AT AND ABOVE THE CEILING. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PERFORMING WORK.

17. REFER TO ARCHITECTURAL, CIVIL, STRUCTURAL, & LANDSCAPE DRAWINGS FOR ADDITIONAL REQUIREMENTS. SEE SEPARATE PROJECT MANUAL FOR GENERAL CONDITIONS AND SPECIFICATIONS. IF APPLICABLE, WHERE DISCREPANCIES OCCUR BETWEEN THESE DRAWINGS AND THE PROJECT MANUAL, THE LATTER SHALL BE FOLLOWED. COORDINATE WITH ENGINEER.

18. THE CONTRACTOR SHALL MODIFY, REMOVE AND/OR RELOCATE ALL MATERIALS AND ITEMS INDICATED ON THE DRAWINGS OR REQUIRED BY THE INSTALLATION OF NEW SYSTEMS/EQUIPMENT. ALL REMOVALS AND/OR DISMANTLING SHALL BE CONDUCTED IN A MANNER TO PRODUCE MAXIMUM SALVAGE. SALVAGE MATERIALS SHALL BE DISPOSED OF OFF-SITE, EXCEPT THAT THE OWNER RESERVES THE RIGHT TO SELECT AND RETAIN ANY DESIRED SALVAGE ITEMS. CONTRACTOR SHALL VERIFY WITH OWNER PRIOR TO REMOVING SALVAGED MATERIALS FROM SITE. MATERIALS AND/OR ITEMS SCHEDULED FOR RELOCATION AND WHICH ARE DAMAGED DURING DISMANTLING OR REASSEMBLING OPERATIONS SHALL BE REPAIRED AND RESTORED TO GOOD OPERATIVE CONDITION. THE CONTRACTOR MAY SUBSTITUTE NEW MATERIALS AND/OR ITEMS OF A LIKE DESIGN AND EQUAL QUALITY IN LIEU OF MATERIALS AND/OR ITEMS TO BE RELOCATED.

19. CONCEAL ALL PIPING AND CONDUIT IN FINISHED AREAS UNLESS OTHERWISE NOTED. ALL PIPING, DEVICES, APPARATUS, EQUIPMENT, ETC., SHALL BE PROPERLY SUPPORTED AND STANDED. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL TEMPORARY POWER AND UNDERGROUND UTILITIES WITH OTHER TRADES.
20. COORDINATE CEILING MOUNTED FIXTURES, DEVICES, ETC., WITH MECHANICAL DRAWINGS AND REFLECTED CEILING PLAN DRAWINGS FOR EXACT LOCATIONS OF FIXTURES.

21. CONTRACTOR SHALL SEQUENCE WORK TO MINIMIZE DOWNTIME & OUTAGES. COORDINATE INTERRUPTION OF ANY UTILITY WITH OWNER. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL WIRING AND CONDUIT, AND OTHER SYSTEMS SPECIFIED AND REQUIRED IN THE BUILDING.

22. CORING SLAB PENETRATIONS FOR PIPING/CONDUIT AND DRILLING OF THE STRUCTURE FOR EQUIPMENT ANCHORAGE SHALL NOT BE PERFORMED WITHOUT THE PRIOR APPROVAL OF OWNER AND STRUCTURAL ENGINEER.

23. ALL REQUIRED CUTS INTO EXISTING CONCRETE WALKS, CURBS, AND ALL PAVED AREAS SHALL BE NEATLY SAW CUT AND PATCHED TO MATCH EXISTING TO THE SATISFACTION OF OWNER.

24. IN THE EVENT OF SUBSTITUTION OF EQUIPMENT, IT SHALL BE THE RESPONSIBILITY OF THE SUBSTITUTING CONTRACTORS TO COORDINATE ADDITIONAL REQUIREMENTS FOR THESE ALTERATIONS. THE SUBSTITUTING CONTRACTORS SHALL BE RESPONSIBLE TO PROVIDE ADDITIONAL EQUIPMENT, CONDUITS, BOXES, CONDUIT, ADJUST OVER-CURRENT PROTECTION DEVICES, PROVIDE ADDITIONAL CO2P, LABOR, ADJUST CONDUCTOR SIZES, ADJUST CONDUCTOR QUANTITIES, AND OTHER NECESSARY APPURTENANCES AS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM PER THE MANUFACTURER'S RECOMMENDATIONS. INCLUDE ALL COSTS IN BASE BID.

25. THESE DRAWINGS DIAGRAMMATICALLY INDICATE THE INTENT OF THE PROPOSED CONSTRUCTION. SLIGHT VARIATIONS IN TENANT'S FURNITURE AND SITE CONDITIONS MAY REQUIRE OUTLETS TO BE RELOCATED TO ACCOMMODATE THE ACTUAL FURNITURE AND/OR OUTLETS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL OUTLETS WITH OWNER'S REPRESENTATIVE, PERFORMING ADJUSTMENTS TO OUTLET LOCATIONS AS REQUIRED FOR A FINISHED AND FUNCTIONAL SYSTEM.

26. COORDINATE MOUNTING LOCATIONS OF RECEPTACLES, CLOCKS, FIRE ALARM DEVICES, TELEPHONE OUTLETS, SPECIAL PURPOSE OUTLETS, DATA/COMMUNICATIONS OUTLETS, SECURITY DEVICES, ETC., WITH ARCHITECT'S DRAWINGS AND SITE CONDITIONS PRIOR TO ROUGH-IN.

27. COORDINATE CEILING MOUNTED WIRING DEVICES, FIRE ALARM DEVICES, ETC., WITH MECHANICAL DRAWINGS AND ARCHITECT'S REFLECTED CEILING PLANS.

28. WHERE BACK-TO-BACK WALL MOUNTED DEVICES ARE INDICATED, SEPARATE ADJACENT OUTLET BOXES SHALL BE USED. THRU-WALL BOXES ARE NOT ACCEPTABLE FOR ANY DEVICES.

29. PROVIDE NEC REQUIRED SAFETY DISCONNECT SWITCHES ON ALL EQUIPMENT WHETHER SPECIFICALLY INDICATED OR NOT ON DRAWINGS.

30. ALL POWER WIRING SHALL BE INSTALLED IN CONDUIT. ALL LOW VOLTAGE WIRING SHALL USE PLENUM-RATED CABLE.

31. WIRING DEVICES INDICATED OR FOUND TO BE EXISTING SHALL BE VERIFIED FOR PROPER OPERATION, SAFETY AND APPLICATION PRIOR TO REUSE.

32. ALL NEW POWER AND LIGHTING CIRCUITS SHALL BE #12 COPPER MINIMUM, THIN, THWN OR THW, WITH GREEN WIRE GROUND AND SHALL BE CONNECTED TO A 25A BREAKER, MINIMUM.

33. ALL NEW CONCEALED CONDUITS SHALL BE 3/4" MINIMUM EMT WITH COMPENSATOR TYPE FITTINGS. PROVIDE SHORT SECTIONS OF FLEXIBLE METAL CONDUIT WHERE REQUIRED. PROVIDE GALVANIZED RIGID CONDUIT IN EXPOSED LOCATIONS SUBJECT TO DAMAGE. INDIVIDUAL WIRING DEVICE CIRCUITS ONLY MAY UTILIZE 1/2" CONDUIT.

34. ALL CONDUCTORS ON ALL WIRING SYSTEMS SHALL BE COPPER.

35. ALL POWER WIRING SYSTEMS SHALL CONTAIN A "GREEN WIRE" INSULATED GROUND CONDUCTOR WITHIN THE RACEWAY SIZED IN ACCORDANCE WITH NEC ARTICLE 250. IN NO CASE SHALL THE METALLIC RACEWAY ALONE BE USED AS A GROUNDING CONDUCTOR PATH.

36. CONTRACTOR SHALL REMOVE ALL CONDUITORS IN WALLS, ABOVE CEILINGS AND BELOW FLOORS THAT WILL NO LONGER SERVE EQUIPMENT. REMOVE ALL UNUSED CONDUITS WHERE POSSIBLE.

37. ALL RACEWAYS SHALL BE SUPPORTED AND ATTACHED IN ACCORDANCE WITH THE NEC.

38. PROVIDE A TYPED PANEL DIRECTORY FOR EACH NEW AND EXISTING PANEL AFFECTED BY THIS PROJECT. DIRECTORY SHALL IDENTIFY THE CIRCUIT NUMBER AND EQUIPMENT SERVED. PENCL IN "SPARE" FOR UNUSED BRANCH OVER CURRENT DEVICES AND LEAVE "SPACE" BLANK FOR FUTURE USE.

39. ALL DEVICE AND JUNCTION BOXES SHALL BE GALVANIZED STEEL OR CAST METAL TYPE.

40. CIRCUIT NUMBERS WHERE INDICATED ARE FOR REFERENCE AND MAY NOT COINCIDE WITH AVAILABLE OR FINAL CIRCUITS USED. CONTRACTOR SHALL NOTE ACTUAL CIRCUITS USED ON PANEL DIRECTORY CARDS AND RECORD DRAWINGS. UPDATE CIRCUIT DIRECTORY CARDS IN NEW AND PANELS AFFECTED BY THE WORK OF THIS PROJECT.

41. ON ALL NEW AND TELEPHONE AND DATA/COMMUNICATION DEVICE BOXES, CONTRACTOR SHALL PROVIDE EMPTY CONDUIT TO ABOVE CEILING AND INSTALL PULL STRING, UNLESS NOTED OTHERWISE.

42. FLOOR POKE-THROUGHS SHALL BE FIRE RATED WITH FLUSH POKE THROUGH AND CONDUIT ADAPTER WHERE INDICATED ON DRAWINGS.

43. IF POWER FOR NEW CIRCUITS IS TO BE DERIVED FROM PANELBOARDS, RE-USE BREAKERS AND/OR PROVIDE NEW MATCHING BREAKERS AS REQUIRED FOR NEW CIRCUITS.

44. ALL POWER RECEPTACLE WIRING DEVICES SHALL BE RATED MINIMUM 20A AND SHALL BE COMMERCIAL GRADE, HEAVY DUTY GROUNDING TYPE WITH GROUND SCREW FOR GROUND CONDUCTOR ATTACHMENT.

45. ELECTRICAL WIRING COLOR CODING SHALL BE IN ACCORDANCE WITH NEC AND ANY LOCAL AMENDMENTS.

46. PROVIDE MINIMUM 200 POUND TEST STRENGTH NYLON PULL CORDS IN ALL EMPTY CONDUIT SYSTEMS WITH LABELS ON CORDS INSIDE ALL JUNCTION BOXES.

47. ALL NEW WIRING DEVICES SHALL BE FLUSH MOUNTED WHEREVER POSSIBLE. MULTIPLE DEVICES SHALL BE MOUNTED IN GANGS WITH A COMMON GANG DEVICE PLATE. ALL DEVICES AND COVER PLATES SHALL MATCH WHERE APPLICABLE. COORDINATE WITH ARCHITECT FOR FINAL DEVICE AND FACEPLATE FINISHES.

48. CONTRACTOR SHALL VERIFY CIRCUITRY IN CONDUITS TO ASSURE THAT ALL AREAS OUTSIDE PROJECT BOUNDARIES REMAIN IN SERVICE, WHERE APPLICABLE.

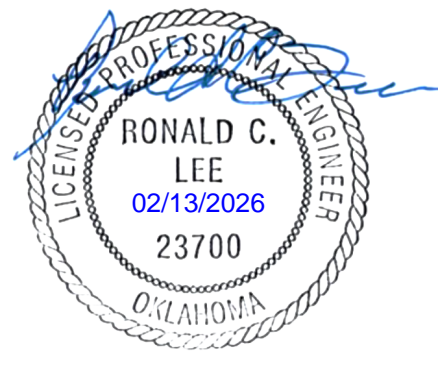
49. REFER TO STANDARD DEVICE MOUNTING DETAIL FOR DEVICE MOUNTING ELEVATIONS.

ELECTRIC UTILITY RESPONSIBILITY MATRIX PAD MOUNTED		
RESPONSIBILITY	CONTRACTOR	UTILITY
PRIMARY CONDUIT	X	
PRIMARY CONDUCTORS		X
TRANSFORMER PAD		X
TRANSFORMER		X
CT METER RACK	X	
METER BASE	I	F
METER		X
SECONDARY CONDUIT & CONDUCTORS	X	
NOTES: 1. X = FURNISHED & INSTALLED. F = FURNISHED IN - INSTALLED. 2. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ELECTRIC UTILITY. CONTACT DARRYL KINNANE WITH PSD AT (918)260-7729. COMPLY WITH ALL UTILITY STANDARDS. 3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL TEMPORARY POWER AND UNDERGROUND UTILITIES WITH OTHER TRADES.		

Sheet List	
Sheet Number	Sheet Name
E001	ELECTRICAL COVER SHEET
E002	ELECTRICAL ONE-LINE DIAGRAM & SCHEDULES
E003	ELECTRICAL SCHEDULES
E004	ELECTRICAL SCHEDULES
E100	FIRST FLOOR OVERALL REFERENCE PLAN
E101	LIGHTING PLAN - AREA 1
E102	LIGHTING PLAN - AREA 2
E103	LIGHTING PLAN - AREA 3
E201	POWER PLAN - AREA 1
E202	POWER PLAN - AREA 2
E203	POWER PLAN - AREA 3
E301	SYSTEMS PLAN - AREA 1
E302	SYSTEMS PLAN - AREA 2
E303	SYSTEMS PLAN - AREA 3
E401	ELECTRICAL ROOF PLAN - AREA 1
E402	ELECTRICAL ROOF PLAN - AREA 2
E403	ELECTRICAL ROOF PLAN - AREA 3
E501	ENLARGED ELECTRICAL KITCHEN PLAN
E601	ELECTRICAL DETAILS

FIRE ALARM SCOPE	
EXISTING CONTROL PANEL: EST4 VOICE EVACUATION SYSTEM	
PROVIDE TURN-KEY FIRE ALARM SYSTEM ACCORDING TO THE FOLLOWING MINIMUM REQUIREMENTS	
1.	MEET OR EXCEED ALL APPLICABLE CODES SPECIFIC TO THIS OCCUPANCY AND OCCUPANT LOAD.
2.	FIRE ALARM CONTRACTOR TO SUBMIT PLANS, PRODUCT DATA AND CALCULATIONS TO ENGINEER AND AUTHORITY HAVING JURISDICTION (AHJ) FOR REVIEW. AHJ TO PROVIDE FINAL APPROVAL OF LAYOUT AND CALC.
3.	WHITE, CEILING-MOUNTED DEVICES WHEREVER POSSIBLE.
4.	PLENUM RATED CABLE SHALL BE SUPPORTED BY DEDICATED J-HOOKS ABOVE CEILING. PROVIDE 1/2" CLEAR COVER FROM THE TOP OF THE SLAB, 1" CHAMFER ON TOP EDGES. EXTEND PAD 4" BEYOND EQUIPMENT FOOTPRINT.
5.	PROVIDE WRITTEN ACCEPTANCE TEST PROCEDURE (ATP) PER NFPA 72.
6.	PROVIDE 2% SPARE OF THE FOLLOWING COMPONENTS (MINIMUM OF TWO) TO OWNER AS ATTIC STOCK: SMOKE DETECTORS, RELAYS, AND ANY STROBE DEVICE.
7.	1 YEAR FULL WARRANTY ON ALL COMPONENTS AND WORKMANSHIP.
8.	ON-SITE OWNER TRAINING OF NOT LESS THAN FOUR HOURS.
9.	SEE DIV 28 SPECIFICATION FOR ADDITIONAL DETAILS.
RENOVATED SPACES	1. MODIFY EXISTING SYSTEM AS REQUIRED TO MEET THE NEEDS OF THE PROPOSED LAYOUT.
NEW ADDITION	1. EXTEND THE EXISTING SYSTEM TO SERVE THE ADDITION. CAPACITY TO DO SO HAS BEEN CONFIRMED BY OWNER.

LOW VOLTAGE SCOPE	
GENERAL:	
1.	CONFIRM ANY OWNER LOW VOLTAGE SPECIFICATIONS / REQUIREMENTS APPLICABLE TO CONTRACTOR SCOPE PRIOR TO BID.
2.	PLENUM RATED CABLE SHALL BE SUPPORTED BY DEDICATED J-HOOKS ABOVE ACCESSIBLE CEILING UNON. ROUTE CABLE IN CONDUIT WHEN CABLE IS INACCESSIBLE (HARD CEILING) OR EXPOSED (NO CEILING).
DATA / PHONE, SECURITY, ACCESS CONTROL, AUDIO / VIDEO	
1.	CONTRACTOR TO PROVIDE INFRASTRUCTURE (RACEWAY, LINE VOLTAGE POWER) AS REQUIRED FOR A COMPLETE SYSTEM.
2.	INDICATED DEVICES, LOCATIONS, AND INFORMATION ARE PROVIDED FOR BIDDING PURPOSES ONLY. COORDINATE FINAL REQUIREMENTS WITH PROVIDING VENDOR / CONTRACTOR PRIOR TO ROUGH-IN.
3.	OWNER TO PROVIDE CABLING, RACK AND ACTIVE EQUIPMENT UNDER SEPARATE CONTRACT.
4.	ALL NEW ALARM AND ACCESS CONNECTIONS SHALL GO TO THE NEW CONTROL PANEL.

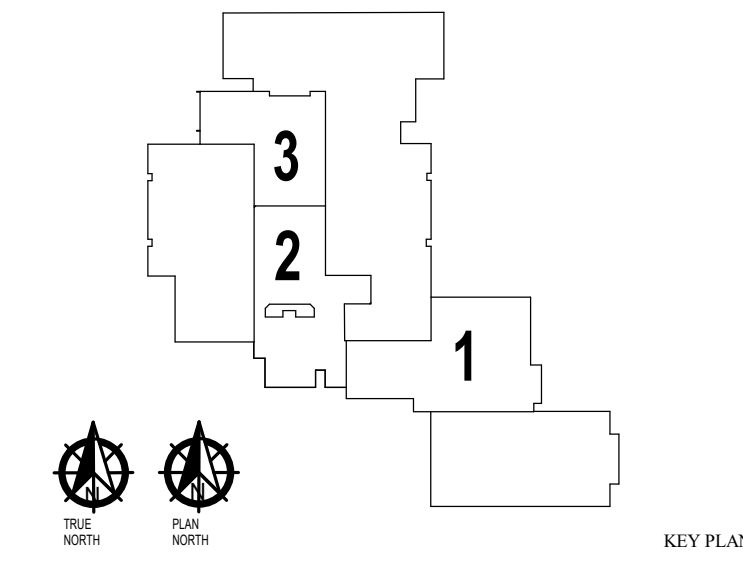


OWASSO
8th GRADE
ADDITION

OWASSO PUBLIC
SCHOOLS

OWASSO, OK
2025

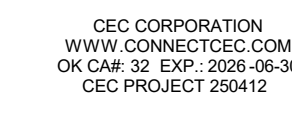
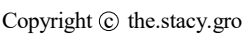
PROJECT



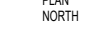
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ELECTRICAL
COVER SHEET

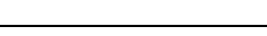
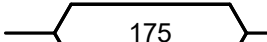
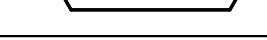
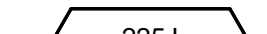
E001



PROJEC



- A. CIRCUIT BREAKERS SHALL BE 3-POLE AND 80% RATED UNLESS NOTED OTHERWISE.
- B. FEEDER SIZING METHOD: COPPER, 60C #12 THROUGH #1, 75C #1/0 AND ABOVE IN EMT.

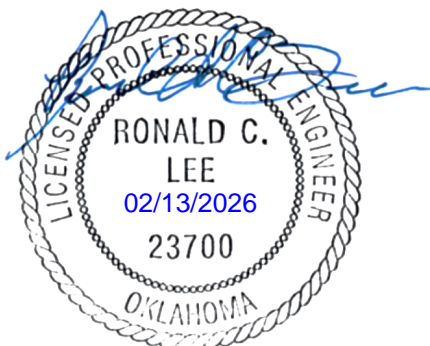
FEEDER SCHEDULE	
	2°C, 3-20, 20N, #6G
	2-1/2°C, 3-40, 40N, #2G
	(2)3°C, 3-350kcmil, 350kcmil N, #1G
	(3)2-1/2°C, 3-300kcmil, 300kcmil N

FAULT CURRENT SCHEDULE								
DEVICE	FAULT AT DEVICE	AIC RATING	VOLTAGE	FEEDER		TRANSFORMER		FAULT AT PRIMARY
				SIZE	LENGTH	KVA	Z%	
DCH1	10,038	22,000 AMPS SYMMETRICAL	480V	(2)350kcmil	445'	500	2.5	UTILITY
UT-1	!! 24,195 !!	22,000 AMPS SYMMETRICAL	12,470V					
PK	7,442	10,000 AMPS SYMMETRICAL	208V	40	113'			
L1	13,687	22,000 AMPS SYMMETRICAL	208V	40	16"	112.5	2	130,961
T1	15,261	22,000 AMPS SYMMETRICAL	480V	2/0	19"			
IAH	!! 92,703 !!	22,000 AMPS SYMMETRICAL	480V	(2)350kcmil	110'			
H1	UTILITY	22,000 AMPS SYMMETRICAL	480V			75	1.75	UTILITY
1AH	12,013		480V					

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE												
CALLOUT	PHASE	VOLTAGE	CIRCUIT		WIRE CALLOUT	KVA	LOAD			DISCONNECT	NEMA	NOTES
			PANEL	NUMBER			FLA	MCA	FAULT CURRENT			
AC-1	1	208 V	(E) PL3	5	34°C, 2#10, #10G	0.0	0.0	0.0	513	HARDWIRED	-	
AC-2	1	208 V	(E) PL3	32,34	34°C, 2#10, #10G	0.00	0.0	0.0	691	HARDWIRED	-	
CU-1	1	208 V	(E) PL3	5	34°C, 2#10, #10G	3.56	17.1 A	19 A	593	NON-FUSED	NEMA 3R	
CU-2	1	208 V	L1	32,34	34°C, 2#10, #10G	3.56	17.1 A	19 A	691	NON-FUSED	NEMA 3R	
DEF-1	1	120 V	PK	59	34°C, 1#12, #12G, #12G	0.52	4.3 A	0 A	702	FUSED	NEMA 3R	
DOAU-1	3	480 V	1AH	38,40,42	-112C, 3#10, #8G	10.2	84 A	102.36 A	19,393	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
EF-1	1	120 V	L1	38	34°C, 1#12, #12G, #12G	0.02	0.2 A	1 A	648	TOGGLE SWITCH	-	
EF-2	1	120 V	L1	38	34°C, 1#12, #12G, #12G	0.02	0.2 A	1 A	648	TOGGLE SWITCH	-	
EF-3	1	120 V	L1	42	34°C, 1#12, #12G, #12G	0.58	4.8 A	0 A	1,150	TOGGLE SWITCH	NEMA 3R	
EF-4	1	120 V	L1	40	34°C, 1#12, #12G, #12G	0.18	1.5 A	2 A	2,499	TOGGLE SWITCH	NEMA 3R	
EF-5	1	120 V	L1	40	34°C, 1#12, #12G, #12G	0.18	1.5 A	2 A	2,499	TOGGLE SWITCH	NEMA 3R	
EF-6	1	120 V	L1	40	34°C, 1#12, #12G, #12G	0.18	1.5 A	2 A	2,499	TOGGLE SWITCH	NEMA 3R	
EF-7	1	120 V	L1	43	34°C, 1#12, #12G, #12G	0.34	2.8 A	4 A	1,544	TOGGLE SWITCH	NEMA 3R	
EF-8	1	120 V	L1	45	34°C, 1#12, #12G, #12G	0.02	0.2 A	1 A	1,235	TOGGLE SWITCH	NEMA 3R	
EF-9	1	120 V	L1	45	34°C, 1#12, #12G, #12G	0.02	0.2 A	1 A	1,235	TOGGLE SWITCH	NEMA 3R	
EF-10	1	120 V	L1	47	34°C, 1#12, #12G, #12G	1.18	1.5 A	2 A	1,094	TOGGLE SWITCH	NEMA 3R	
EF-11	1	120 V	L1	47	34°C, 1#12, #12G, #12G	0.18	1.5 A	2 A	1,094	TOGGLE SWITCH	NEMA 3R	
EF-12	1	120 V	(E)PPB	2	34°C, 1#12, #12G, #12G	0.18	1.5 A	2 A	818	TOGGLE SWITCH	NEMA 3R	
EF-13	1	120 V	(E)PPB	2	34°C, 1#12, #12G, #12G	0.18	1.5 A	2 A	818	TOGGLE SWITCH	NEMA 3R	
EF-14	1	120 V	(E)PPB	2	34°C, 1#12, #12G, #12G	0.18	1.5 A	2 A	818	TOGGLE SWITCH	NEMA 3R	
EF-15	1	120 V	(E)PPB	2	34°C, 1#12, #12G, #12G	0.18	1.5 A	2 A	818	TOGGLE SWITCH	NEMA 3R	
EF-16	1	120 V	(E)PPB	4	34°C, 1#12, #12G, #12G	0.02	0.0 A	0 A	352	TOGGLE SWITCH	-	
EF-17	1	120 V	(E)PPB	4	34°C, 1#12, #12G, #12G	0.02	0.0 A	0 A	352	TOGGLE SWITCH	-	
EF-18	1	120 V	(E) PL3	11	34°C, 1#12, #12G, #12G	0.02	0.2 A	1 A	3,764	TOGGLE SWITCH	-	
EF-19	1	120 V	(E) PL3	11	34°C, 1#12, #12G, #12G	0.02	0.2 A	1 A	3,764	TOGGLE SWITCH	-	
EF-20	1	120 V	(E) PL3	11	34°C, 1#12, #12G, #12G	0.02	0.2 A	1 A	3,764	TOGGLE SWITCH	-	
EF-21	1	120 V	(E) PL3	11	34°C, 1#12, #12G, #12G	0.02	1.5 A	2 A	3,764	TOGGLE SWITCH	-	
EF-22	1	120 V	(E) PL3	14	34°C, 1#12, #12G, #12G	0.02	0.0 A	0 A	2,076	TOGGLE SWITCH	-	
EF-23	1	120 V	(E) PL3	14	34°C, 1#12, #12G, #12G	0.02	0.0 A	0 A	2,076	TOGGLE SWITCH	-	
KEH-1	3	480 V	1AH	8,10,12	34°C, 3#12, #12G	9.9	6 A	1,778	FUSED	NEMA 3R		
KEH-2	3	480 V	1AH	13,15,17	34°C, 3#12, #12G	4.99	6 A	1,417	FUSED	NEMA 3R		
KEH-3	3	480 V	1AH	14,16,18	34°C, 3#12, #12G	4.99	6 A	1,269	FUSED	NEMA 3R		
RTU-4	3	480 V	(E)HP	21,23,25	34°C, 3#12, #12G	11.31	13.6 A	17 A	1,593	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-5	3	480 V	(E)HP	20,22,24	34°C, 3#12, #12G	10.65	12.8 A	16 A	1,450	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-6	3	480 V	H1	21,23	34°C, 3#12, #10G	22.4	27.1 A	33.3 A	2,459	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-14	3	480 V	H1	2,4,6	34°C, 3#6, #10G	27.71	33.3 A	37 A	2,141	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-27	3	480 V	1AH	19,21,23	34°C, 3#6, #10G	17.96	23.4 A	26 A	844	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-28	3	480 V	1AH	26,28,30	34°C, 3#6, #10G	27.71	33.3 A	37 A	2,635	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-29	3	480 V	1AH	20,22,24	34°C, 3#6, #10G	20.22	23.4 A	26 A	2,585	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-30	3	480 V	1AH	31,33,35	34°C, 3#6, #10G	27.71	33.3 A	37 A	2,459	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-31	3	480 V	1AH	25,27,29	34°C, 3#6, #10G	20.22	23.4 A	27 A	2,430	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-32	3	480 V	1AH	32,34,36	1-114°C, 3#2, #8G	48.57	63.9 A	71 A	1,003	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-33	3	480 V	1AH	37,39,41	1-114°C, 3#2, #8G	48.57	63.9 A	71 A	7,686	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
SLV-1	1	120 V	INV1	1	34°C, 1#12, #12G, #12G	16 A	0.01 A	20 A	551	TOGGLE SWITCH	-	PROVIDE LOW VOLTAGE TRANSFORMER, COORDINATE WITH MECH CONTRACTOR
SLV-2	1	120 V	INV1	5	34°C, 1#12, #12G, #12G	0.01	16 A	20 A	551	TOGGLE SWITCH	-	PROVIDE LOW VOLTAGE TRANSFORMER, COORDINATE WITH MECH CONTRACTOR
SUF-1	1	120 V	INV1	7	34°C, 1#10, #10N, #10G	1.56	13 A	21 A	743	NON-FUSED	-	
SUF-2	1	120 V	INV1	6	34°C, 1#10, #10N, #10G	1.56	13 A	21 A	616	NON-FUSED	-	
SUF-3	1	120 V	INV1	8	34°C, 1#12, #12G, #12G	0.46	3.8 A	5 A	3,372	NON-FUSED	-	
WH-1	1	120 V	L1	9	34°C, 1#12, #12G, #12G	0.18	1.5 A	2 A	675	GFC RECEPTACLE	-	
WH-2	1	120 V	L1	9	34°C, 1#12, #12G, #12G	0.18	1.5 A	2 A	675	GFC RECEPTACLE	-	
WH-3	1	120 V	(E) PL3	9	34°C, 1#12, #12G, #12G	0.18	1.5 A	2 A	730	GFC RECEPTACLE	-	

MECHANICAL SCHEDULE NOTE

- A. REF MECHANICAL PLANS FOR ADDITIONAL INFORMATION. PROVIDE REVISED EQUIPMENT
B. SIZE FUSES PER MANUFACTURED RECOMMENDATIONS.
C. COORDINATE FINAL REQUIREMENTS WITH SUBMITTED AND APPROVED EQUIPMENT. PROVIDE UPDATED EQUIPMENT SELECTIONS, BREAKERS, AND/OR CONDUCTOR SIZES BASED UPON DEVIATIONS FROM BASIS OF DESIGN. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO SUBMITTING SUBMITTALS.
COORDINATE LOCATION PRIOR TO ROUGH-IN.



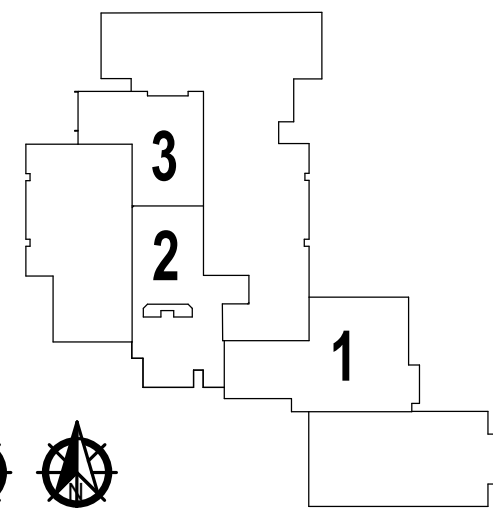
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OWASSO 8th GRADE ADDITION

OWASSO PUBLIC
SCHOOLS
OWASSO, OK
2025

PROJECT



KEY PLAN



REVISIONS

11.25.2025

ISSUE DATE

ELECTRICAL SCHEDULES

E003

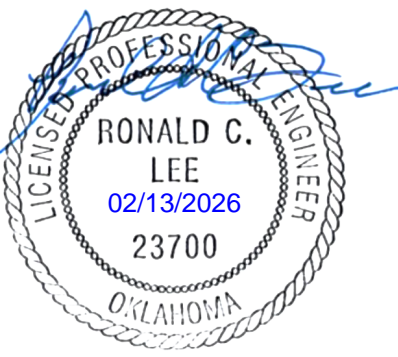
SHEET TITLE

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Branch Panel: (E)1P													
Location: EXISTING ELEC EX						Volts: 480Y/277				A.I.C. Rating: 22,000 AMPS SYMMETRICAL			
Supply From: (E)MSB						Phases: 3				Mains Type: MCB			
Mounting: SURFACE						Wires: 4				Bus Amps: 110			
Enclosure: NEMA 1						Lugs: Standard				Bus Amps: 110			
Notes:													
CK T	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CK T
1	L - TLT 314	20 A	1	1520	198					1	20 A L - EXTERIOR	2	
3	L - EXTERIOR	20 A	1			444	1787			1	20 A L - CORRIDOR 309	4	
5	SPACE ONLY	--	1					--	330	1	20 A L - EXTERIOR	6	
7	SPACE ONLY	--	1	--	1168					1	20 A L - SPED 308	8	
9	SPACE ONLY	--	1			--	--			1	-- SPACE ONLY	10	
11	SPACE ONLY	--	1					--	--	1	-- SPACE ONLY	12	
13	SPACE ONLY	--	1	--	--					1	-- SPACE ONLY	14	
15	SPACE ONLY	--	1			--	--			1	-- SPACE ONLY	16	
17	SPACE ONLY	--	1					--	--	1	-- SPACE ONLY	18	
19	SPACE ONLY	--	1	--	3546								20
21						3769	3546			3	20 A RTU-5	22	
23	RTU-4	20 A	3					3769	3546				24
25				3769	750					1	20 A EXISTING LOAD	26	
27	EXISTING LOAD	20 A	1			750	750			1	20 A EXISTING LOAD	28	
29	EXISTING LOAD	20 A	1					750	750	1	20 A EXISTING LOAD	30	
31	EXISTING LOAD	20 A	1	750	750					1	20 A EXISTING LOAD	32	
33	EXISTING LOAD	20 A	1			750	750			1	20 A EXISTING LOAD	34	
35	SPARE	20 A	1					750	750	1	20 A EXISTING LOAD	36	
37	SPARE	20 A	1	0	0					1	20 A EXISTING LOAD	38	
39	SPARE	20 A	1			750	750			1	20 A EXISTING LOAD	40	
41	SPARE	20 A	1					0	0	1	20 A SPARE	42	
Total Load:				12450 VA		14045 VA					10644 VA		
Total Amps:				46 A		52 A					38 A		
Legend:													
(GFCI) - Ground Fault Circuit Interrupter Breaker, (AFCI) - Arc Fault Circuit Interrupter Breaker, (GFPE) - 30mA Ground Fault Protection of Equipment Breaker, (ST) - Shunt Trip Breaker, (LOCK ON/OFF) - Permanent Locking Means, (FA) - Provide Red Lock-On Clip, (DUAL) - Dual Function GFCI/ AFCI Breaker, (NCB) New Circuit Breaker in Existing...													
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
Motor		21943 VA		112.88%		24770 VA							
Spare		9750 VA		100%		9750 VA		Total Conn. Load: 27390 VA					
Lighting		5447 VA		125%		6808 VA		Total Est. Demand: 31578 VA					
								Total Conn.: 33 A					
								Total Est. Demand: 38 A					

Branch Panel: (E)7PB													
Location: EXISTING ELEC EX				Volts: 208Y/120				A.I.C. Rating: 22,000 AMPS SYMMETRICAL					
Supply From: (E)TX2				Phases: 3				Mains Type: MLO					
Mounting: SURFACE				Wires: 4				Bus Amps: 100					
Enclosure: NEMA 1				Lugs: Standard				Bus Amps: 100					
Notes:													
CK T	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CK T
1				0	720					1	20 A	EF-12,13,14,15	2
3	(E)2P	125 A	3			0	48			1	20 A	EF-16	4
5								0	750	1	20 A	EXISTING LOAD	6
7	EXISTING LOAD	20 A	1	750	750					1	20 A	EXISTING LOAD	8
9	EXISTING LOAD	20 A	1			750	750			1	20 A	EXISTING LOAD	10
11	EXISTING LOAD	20 A	1					750	750	1	20 A	EXISTING LOAD	12
13	EXISTING LOAD	20 A	1	750	750					1	20 A	EXISTING LOAD	14
15	EXISTING LOAD	20 A	1			750	750			1	20 A	EXISTING LOAD	16
17	EXISTING LOAD	20 A	1					750	750	1	20 A	EXISTING LOAD	18
19	EXISTING LOAD	20 A	1	750	750					1	20 A	EXISTING LOAD	20
21	EXISTING LOAD	20 A	1			750	750			1	20 A	EXISTING LOAD	22
23	EXISTING LOAD	20 A	1					750	750	1	20 A	EXISTING LOAD	24
25	EXISTING LOAD	20 A	1	750	750					1	20 A	EXISTING LOAD	26
27	EXISTING LOAD	20 A	1			750	750			1	20 A	EXISTING LOAD	28
29	EXISTING LOAD	20 A	1					750	750	1	20 A	EXISTING LOAD	30
31	EXISTING LOAD	20 A	1	750	750					1	20 A	EXISTING LOAD	32
33	EXISTING LOAD	20 A	1			750	750			1	20 A	EXISTING LOAD	34
35	EXISTING LOAD	20 A	1					750	750	1	20 A	EXISTING LOAD	36
37	EXISTING LOAD	20 A	1	750	750					1	20 A	EXISTING LOAD	38
39	EXISTING LOAD	20 A	1			750	750			1	20 A	EXISTING LOAD	40
41	EXISTING LOAD	20 A	1					750	750	1	20 A	EXISTING LOAD	42
Total Load:				9720 VA		9048 VA			9750 VA				
Total Amps:				82 A		75 A			82 A				
Legend:													
(GFCI) - Ground Fault Circuit Interrupter Breaker, (AFCI) - Arc Fault Circuit Interrupter Breaker, (GFPE) - 30mA Ground Fault Protection of Equipment Breaker, (ST) - Shunt Trip Breaker, (LOCK ON/OFF) - Permanent Locking Means, (FA) - Provide Red Lock-On Clip, (DUAL) - Dual Function GFCI/ AFCI Breaker, (NCB) New Circuit Breaker in Existing...													
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
Motor		768 VA		105.88%		813 VA		Total Conn. Load: 28518 VA					
Receptacle		13500 VA		87.04%		11750 VA		Total Est. Demand: 26813 VA					
EXISTING LOAD		14250 VA		100%		14250 VA		Total Conn.: 79 A					
								Total Est. Demand: 74 A					

Branch Panel: (E) PL3													
Location: EXISTING ELEC EX						Volts: 208Y/120				A.I.C. Rating: 22,000 AMPS SYMMETRICAL			
Supply From: (E)TX-1.3						Phases: 3				Mains Type: MCB			
Mounting: SURFACE						Wires: 4				Bus Amps: 100			
Enclosure: NEMA 1						Lugs: Standard				Bus Amps: 100			
Notes:													
CK T	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CK T
1	R - SPED 308	20 A	1	720	720					1	20 A R - SPED 302		2
3	R - SPED 308	20 A	1			720	720			1	R - SPED 302		4
5	CU-1	30 A	2					1779	900	1	20 A R - CORRIDOR 316		6
7	WH-3	20 A	1		1779	2496				2	30 A R - TLT 306		8
11	EF-18,19,20,21	20 A	1				180	2496		1	20 A R - TLT 306		10
13	R - STG 307	20 A	1	1440	48				96	180	1	20 A R - EF-22	12
15						2496	2496						14
17	POWER KILN 310	30 A	2					2496	2496	2	30 A POWER KILN 313		16
19	EXISTING LOAD	20 A	1	750	750					1	20 A EXISTING LOAD		18
21	EXISTING LOAD	20 A	1			750	750			1	20 A EXISTING LOAD		20
23	EXISTING LOAD	20 A	1					750	750	1	20 A EXISTING LOAD		22
25	EXISTING LOAD	20 A	1	750	750					1	20 A EXISTING LOAD		24
27	EXISTING LOAD	20 A	1			750	750			1	20 A EXISTING LOAD		26
29	EXISTING LOAD	20 A	1					750	750	1	20 A EXISTING LOAD		28
31	EXISTING LOAD	20 A	1	7500	750					1	20 A EXISTING LOAD		30
33	EXISTING LOAD	20 A	1			750	750			1	20 A EXISTING LOAD		32
35	EXISTING LOAD	20 A	1					750	750	1	20 A EXISTING LOAD		34
37	EXISTING LOAD	20 A	1	750	750					1	20 A EXISTING LOAD		36
39	EXISTING LOAD	20 A	1			750	750			1	20 A EXISTING LOAD		38
41	EXISTING LOAD							750	750	1	20 A EXISTING LOAD		40
		Total Load:		19953 VA		15108 VA		13947 VA					42
		Total Amps:		168 A		127 A		116 A					
Legend:													
(GFCI) - Ground Fault Circuit Interrupter Breaker, (AFCI) - Arc Fault Circuit Interrupter Breaker, (GFPF) - 30mA Ground Fault Protection of Equipment Breaker, (ST) - Shunt Trip Breaker, (LOCK ON/OFF) - Permanent Locking Means, (FA) - Provide Red Lock-On Clip, (DUAL) - Dual Function GFCI/ AFCI Breaker, (NCB) New Circuit Breaker in Existing...													
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
Motor		3702 VA		124.02%		4591 VA							
Spare		24750 VA		100%		24750 VA		Total Conn. Load:		24259 VA			
Receptacle		20196 VA		74.76%		15098 VA		Total Est. Demand:		20049 VA			
Power		360 VA		100%		360 VA		Total Conn.:		67 A			
								Total Est. Demand:		56 A			



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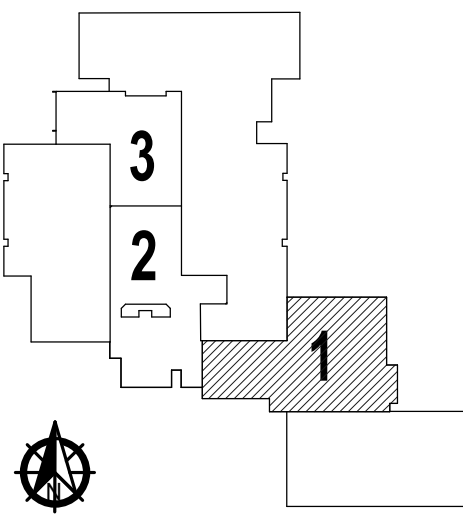


OWASSO 8th GRADE ADDITION

OWASSO PUBLIC
SCHOOLS

OWASSO, OK
2025

PROJECT



KEY PLAN

11.25.2025

ISSUE DATE

LIGHTING PLAN - AREA 1

E101

SHEET TITLE

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LIGHTING PLAN NOTES

- ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
- ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
- SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
- LOWER CASE SUBSCRIPTS INDICATE SWITCH SCHEME.

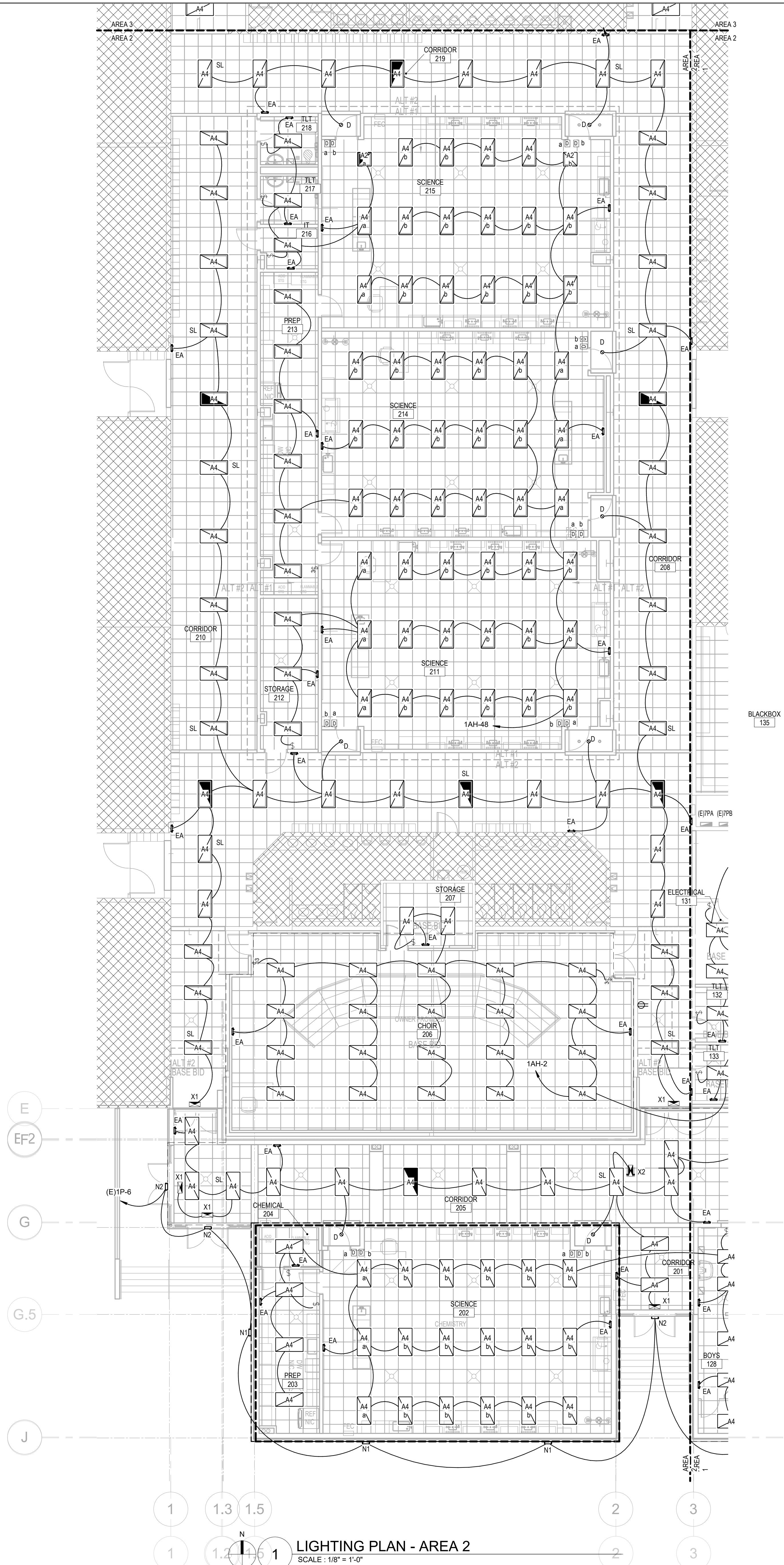
KEYNOTES

- SECURITY LIGHT TO REMAIN ON AT ALL TIMES.
- CORRIDOR LIGHTING CONTROL ROUTED TO EXISTING CONFERENCE ROOM. COORDINATE WITH OWNER FOR FINAL SWITCH LOCATION.
- COORDINATE ALL PENETRATIONS THROUGH FIRE WALL AND / OR SHELTER AREA'S WALL WITH STRUCTURAL.

AREA EXTENTS OF ICC 500 STORM SHELTER. PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3-1/2 SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS OR 2-1/8" IN DIAMETER SHALL BE CONSIDERED OPENINGS AND PROVIDED WITH AN OPENING PROTECTIVE DEVICE. COORDINATE WITH STRUCTURAL FOR ADDITIONAL NOTES AND DETAILS.



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



- LIGHTING PLAN NOTES**
- A. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
 - B. ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
 - C. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
 - D. LOWER CASE SUBSCRIPTS INDICATE SWITCH SCHEME.
- KEYNOTES**

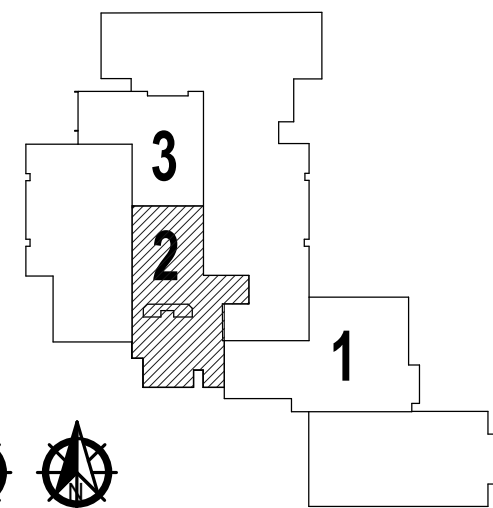
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OWASSO, OK
2025



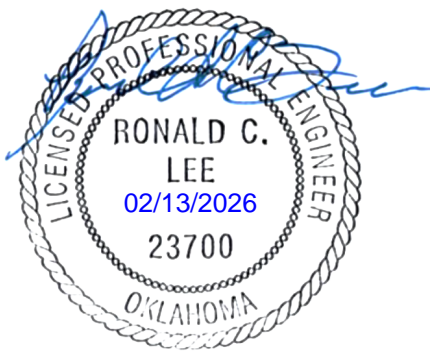
11.25.2025

LIGHTING PLAN - AREA 2

E102

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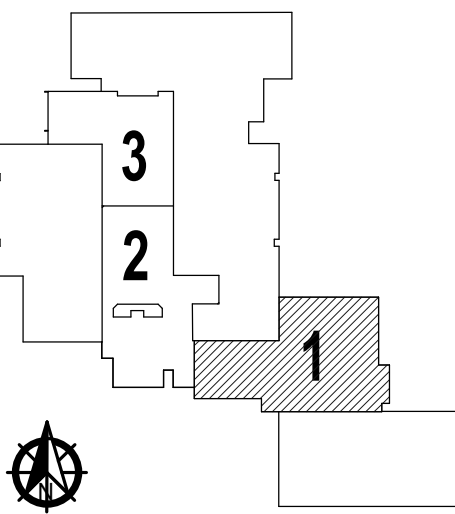


OWASSO 8th GRADE ADDITION

OWASSO PUBLIC
SCHOOLS

OWASSO, OK
2025

PROJECT



KEY PLAN

11.25.2025

ISSUE DATE

POWER PLAN - AREA 1

E201

SHEET TITLE

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EMERGENCY VENTILATION ACTIVATION PROCEDURE:

ACTIVATION SWITCH WITH COVER AND SIGNAGE FOR EMERGENCY VENTILATION. SEQUENCE OF ACTIVATIONS EVENTS IF BUTTON IS PUSHED:

1. RTU-32 AND RTU-33 TO DEENERGIZE
2. MOTORIZED DAMPERS IN SUPPLY AND RELIEF HOOD TO FULLY OPEN.
3. SVF-1 & SVF-2 TO ENERGEZE

SEQUENCE OF ACTIVATIONS EVENTS IF BUTTON IS TWISTED TO RESET:

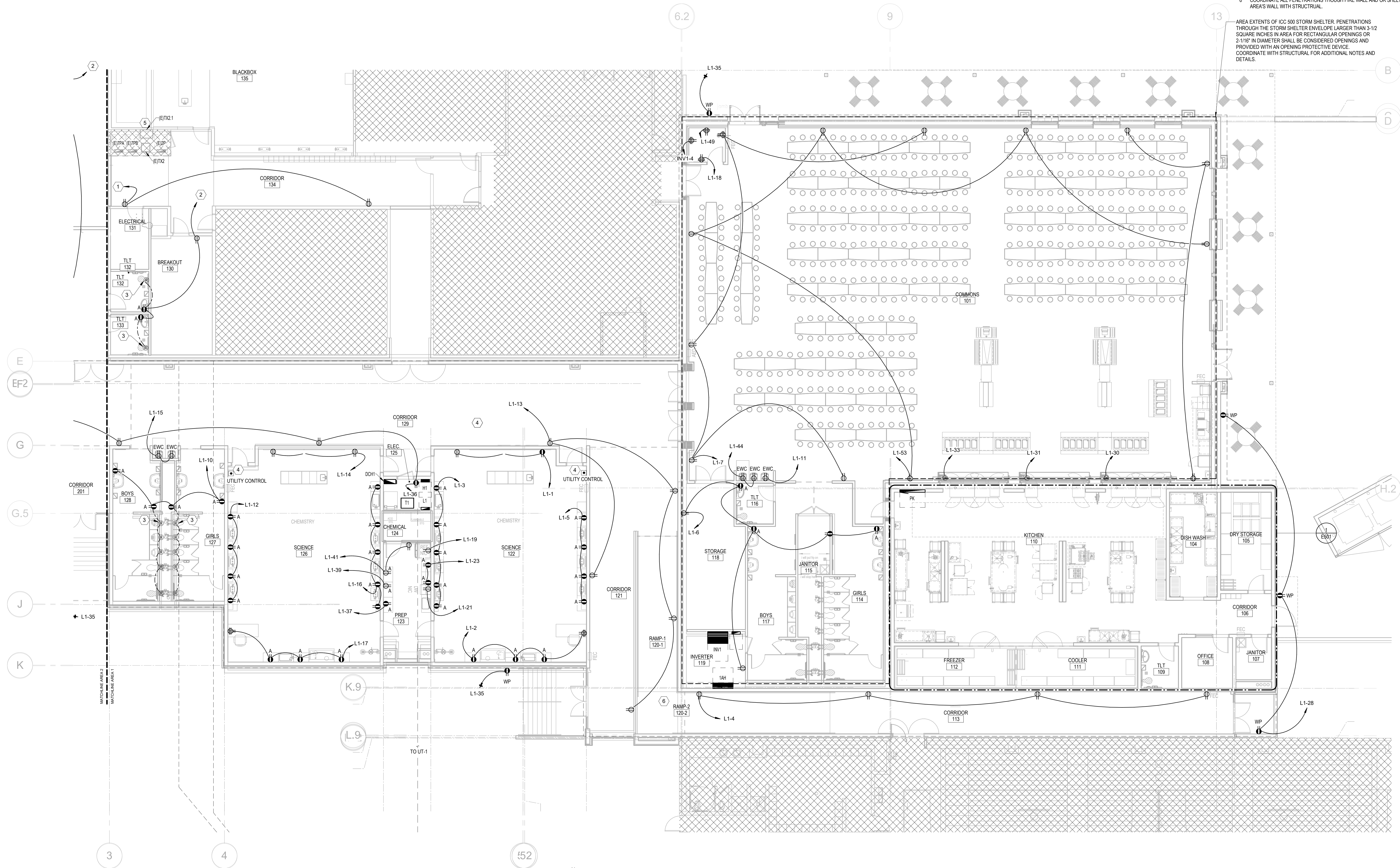
1. SVF-1 & SVF-2 TO DEENERGIZE
2. MOTORIZED DAMPERS IN SUPPLY AND RELIEF HOOD TO FULLY CLOSE.
3. RTU-32 AND RTU-33 TO ENERGEZE PER THEIR SET POINTS

PROVIDE TIME DELAY BETWEEN ACTIONS TO ENSURE EACH ACTION IS FULLY EXECUTED PRIOR TO THE NEXT STARTING. PROVIDE STI SS2179PD-EN STI INDOOR/OUTDOOR SURFACE TURN-TO-RESET (ILLUMINATED) STOPPER STATION (OR EQUAL). COORDINATE WITH ARCHITECTURAL FOR EXACT MOUNTING LOCATION, COLOR, AND LETTERINGS OPTIONS.

POWER PLAN NOTES

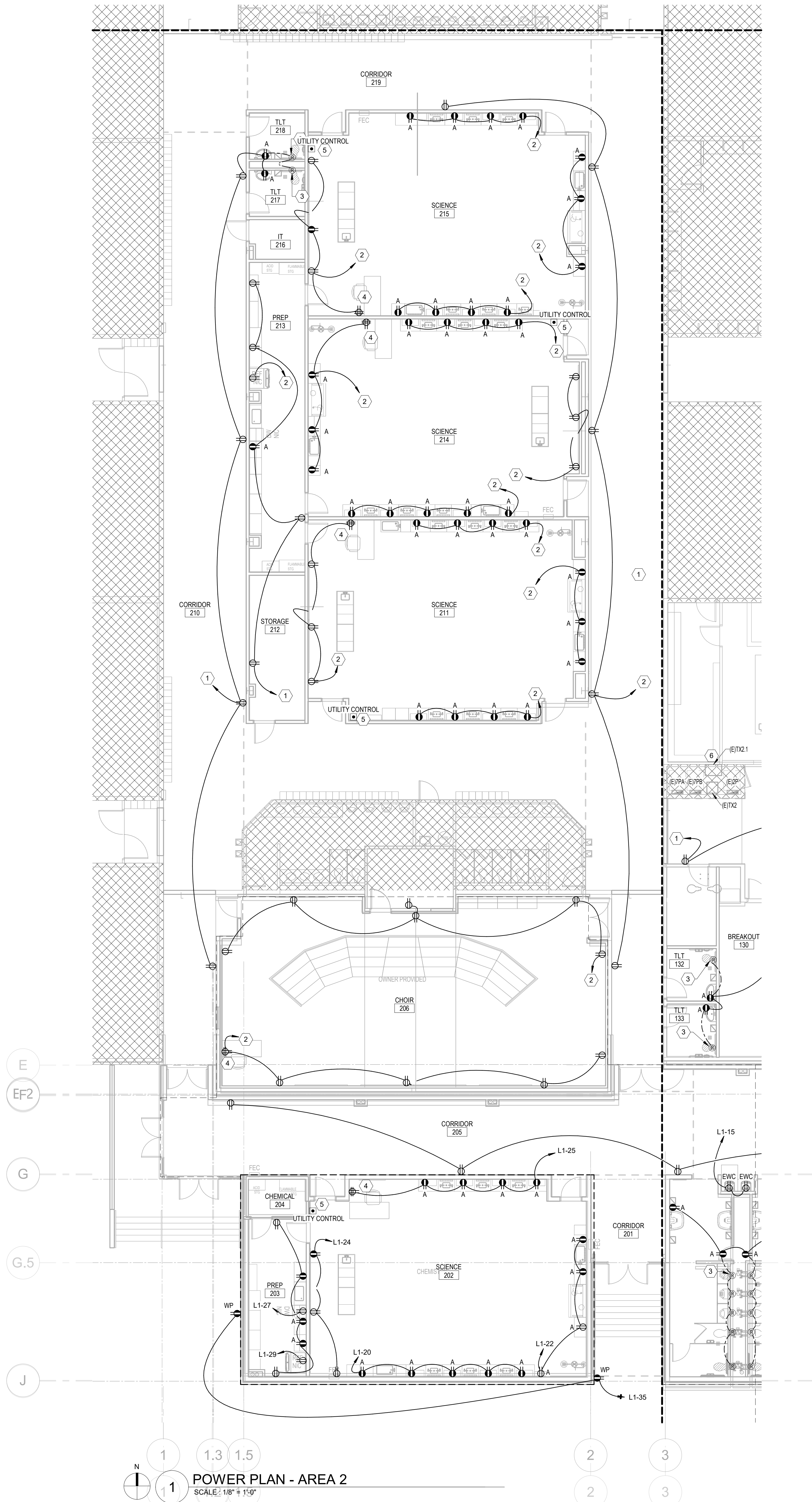
- A. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4" AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT.
2. UTILIZE EXISTING CIRCUIT IN ALL ROOMS.
3. CONNECT TO LOAD SIDE OF GFI RECEPTACLE IN ROOM. PROVIDE CONNECTION TO HARDWIRED PLUMBING SENSOR. COORDINATE QUANTITY AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR. LOCATE CONNECTION POINT IN HIDDEN ACCESSIBLE LOCATION.
4. COORDINATE WITH SCIENCE FIXTURE VENDOR FOR REQUIRED GAS & DOMESTIC CONTROLS.
5. COORDINATE AS NEEDED TO REPLACE NOISY TRANSFORMER IN EXISTING ELECTRICAL ROOM BY BLACKBOX.
6. COORDINATE ALL PENETRATIONS THROUGH FIRE WALL AND OR SHELTER AREA'S WALL WITH STRUCTURAL.

AREA EXTENTS OF ICC 500 STORM SHELTER. PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3-1/2 SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS OR 2-1/8" IN DIAMETER SHALL BE CONSIDERED OPENINGS AND PROVIDED WITH AN OPENING PROTECTIVE DEVICE. COORDINATE WITH STRUCTURAL FOR ADDITIONAL NOTES AND DETAILS.



1 POWER PLAN - AREA 1
SCALE: 1/8" = 1'-0"

0 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' 11' 12' 13' 14' 15' 16' 17' 18' 19' 20' 21' 22' 23' 24' 25' 26' 27' 28' 29' 30' 31' 32' 33' 34' 35' 36' 37' 38' 39' 40' 41' 42' 43' 44' 45' 46' 47' 48' 49' 50' 51' 52' 53' 54' 55' 56' 57' 58' 59' 60' 61' 62' 63' 64' 65' 66' 67' 68' 69' 70' 71' 72' 73' 74' 75' 76' 77' 78' 79' 80' 81' 82' 83' 84' 85' 86' 87' 88' 89' 90' 91' 92' 93' 94' 95' 96' 97' 98' 99' 100'



- POWER PLAN NOTES**
- A. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT.
- KEYNOTES**
1. REPLACE EXISTING DEVICES WITH NEW AND NEW FACE PLATES.
2. UTILIZE EXISTING CIRCUIT IN ALL ROOMS.
3. CONNECT TO LOAD SIDE OF GFI RECEPTACLE IN ROOM. PROVIDE CONNECTION TO HARDWIRED PLUMBING SENSOR. COORDINATE QUANTITY AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR. LOCATE CONNECTION POINT IN HIDDEN ACCESSIBLE LOCATION.
4. HDMI FROM PROJECTOR. SHALL BE RAN TO DESK.
5. COORDINATE WITH SCIENCE FIXTURE VENDOR FOR REQUIRED GAS & DOMESTIC CONTROLS.
6. COORDINATE AS NEEDED TO REPLACE NOISY TRANSFORMER IN EXISTING ELECTRICAL ROOM BY BLACKBOX.

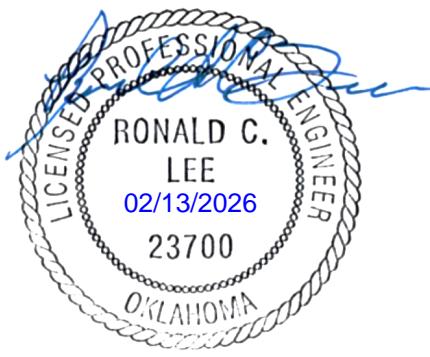
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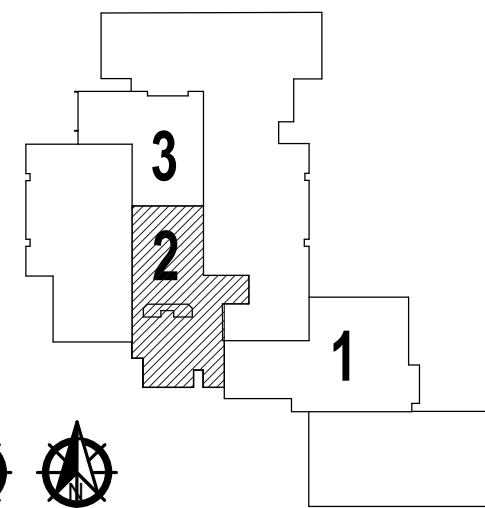


OWASSO 8th GRADE ADDITION

OWASSO PUBLIC
SCHOOLS

OWASSO, OK
2025

PROJECT



KEY PLAN

REVISIONS

11.25.2025

ISSUE DATE

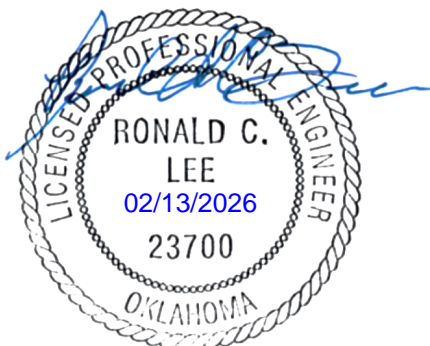
POWER PLAN -
AREA 2

E202

SHEET TITLE

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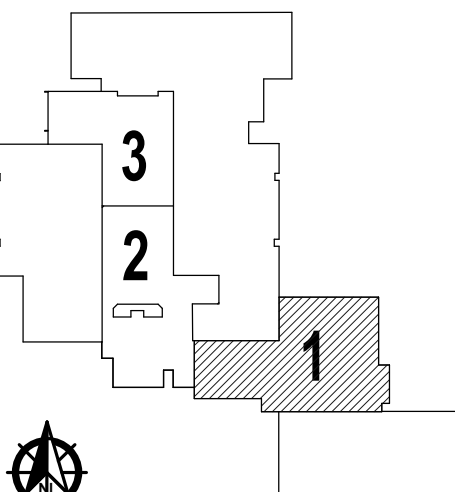


OWASSO 8th GRADE ADDITION

OWASSO PUBLIC
SCHOOLS

OWASSO, OK
2025

PROJECT



KEY PLAN

REVISIONS

11.25.2025

ISSUE DATE

SYSTEMS PLAN - AREA 1

E301

SHEET TITLE

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EMERGENCY VENTILATION ACTIVATION PROCEDURE:

ACTIVATION SWITCH WITH COVER AND SIGNAGE FOR EMERGENCY VENTILATION. SEQUENCE OF ACTIVATIONS EVENTS IF BUTTON IS PUSHED:

1. RTU-32 AND RTU-33 TO DEENERGIZE.
2. MOTORIZED DAMPERS IN SUPPLY AND RELIEF HOOD TO FULLY OPEN.
3. SVF-1 & SVF-2 TO ENERGIZE.

SEQUENCE OF ACTIVATIONS EVENTS IF BUTTON IS TWISTED TO RESET:

1. SVF-1 & SVF-2 TO DEENERGIZE.
2. MOTORIZED DAMPERS IN SUPPLY AND RELIEF HOOD TO FULLY CLOSE.
3. RTU-32 AND RTU-33 TO ENERGIZE PER THEIR SET POINTS.

PROVIDE TIME DELAY BETWEEN ACTIONS TO ENSURE EACH ACTION IS FULLY EXECUTED PRIOR TO THE NEXT STARTING. PROVIDE S11 (S2)11P0-0-51 IN INDOOR/OUTDOOR SURFACE TURN-TO-RESET (ILLUMINATED) STOPPER STATION (OR EQUAL). COORDINATE WITH ARCHITECTURAL FOR EXACT MOUNTING LOCATION, COLOR, AND LETTERINGS OPTIONS.

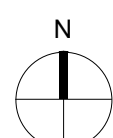
SYSTEM PLAN NOTES

- A. REFER TO MECHANICAL CONNECTION REQUIREMENTS.
- B. REFER TO POWER PLAN FOR MOUNTING HEIGHT ELEVATIONS OF SHARED DEVICES.

KEYNOTES

1. COORDINATE ALL PENETRATIONS THROUGH FIRE WALL AND OR SHELTER AREA'S WALL WITH STRUCTURAL.
2. RED PILOT LIGHT ICC 500 ACTIVATION TOGGLE SWITCH. PROVIDE CLEAR FLIP-UP BUBBLE COVER. PROVIDE LABEL ON COVER "STORM SHELTER EMERGENCY POWER AND VENTILATION". REFER TO MECH/ELEC CONNECTION, INCERTER, AND ICC 500 RELAY SCHEDULE FOR ADDITIONAL INFORMATION. PROVIDE ALL CONTROL WIRING IN COLORED CONDUIT FOR IDENTIFICATION OF EMERGENCY DEVICES.

AREA EXTENTS OF ICC 500 STORM SHELTER. PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3-1/2 SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS OR 2-1/16" IN DIAMETER SHALL BE CONSIDERED OPENINGS AND PROVIDED WITH AN OPENING PROTECTIVE DEVICE. COORDINATE WITH STRUCTURAL FOR ADDITIONAL NOTES AND DETAILS.



1 SYSTEMS PLAN - AREA 1

SCALE : 1/8" = 1'-0"

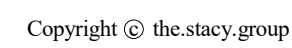
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- A. REFER TO MECHANICAL CONNECTION REQUIREMENTS.
- B. REFER TO POWER PLAN FOR MOUNTING HEIGHT ELEVATIONS OF SHARED DEVICES

KEYNOTES

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OWASSO, OK
2025

PROJECT



KEY PLAN

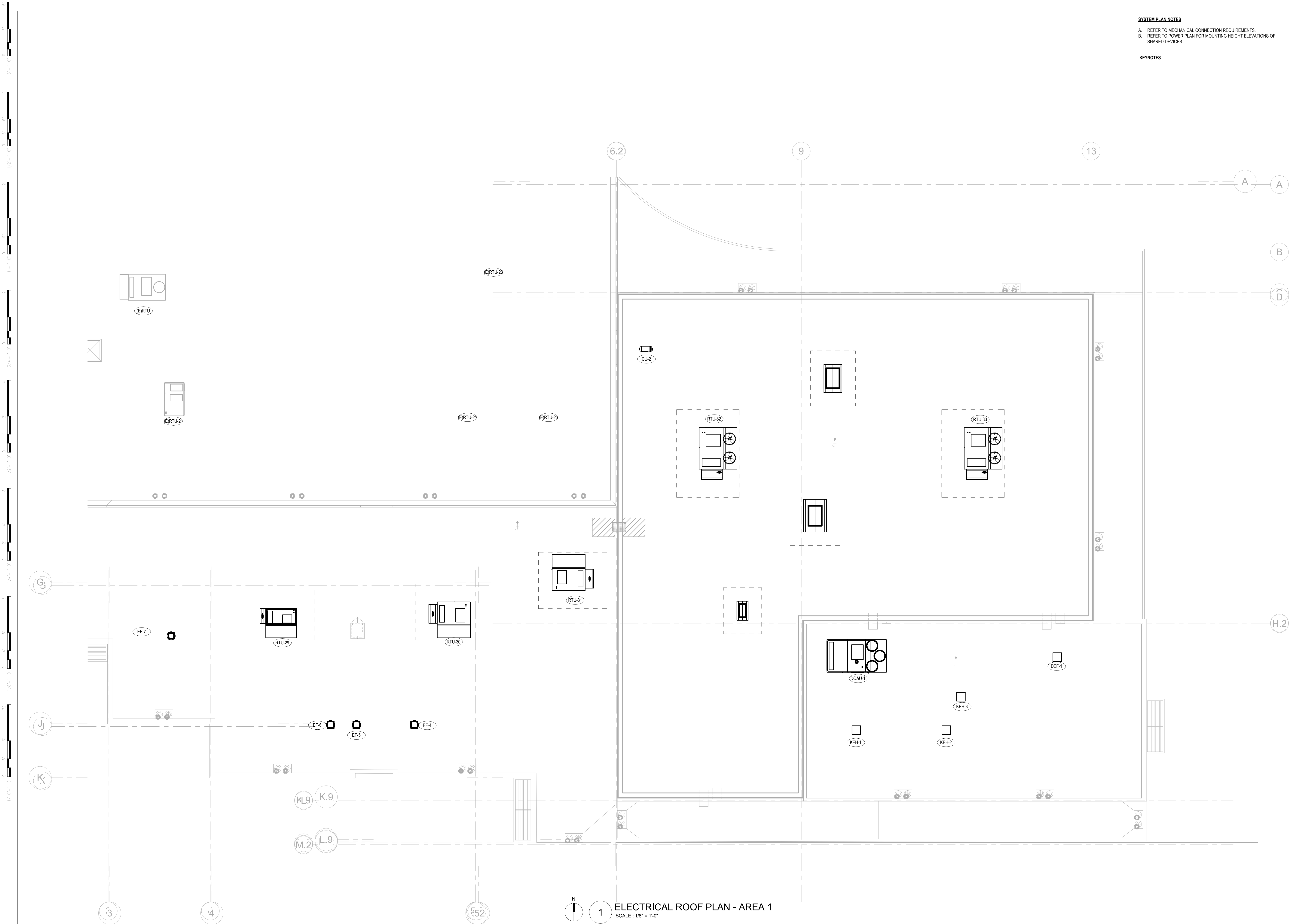
REVISIONS

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SYSTEM PLAN NOTES
A. REFER TO MECHANICAL CONNECTION REQUIREMENTS.
B. REFER TO POWER PLAN FOR MOUNTING HEIGHT ELEVATIONS OF SHARED DEVICES

KEYNOTES

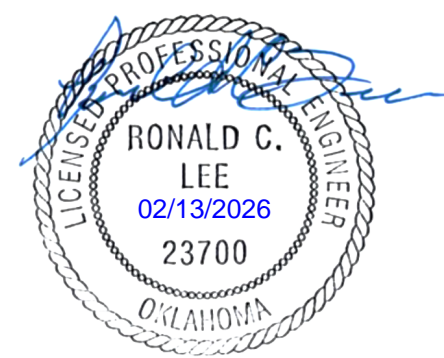
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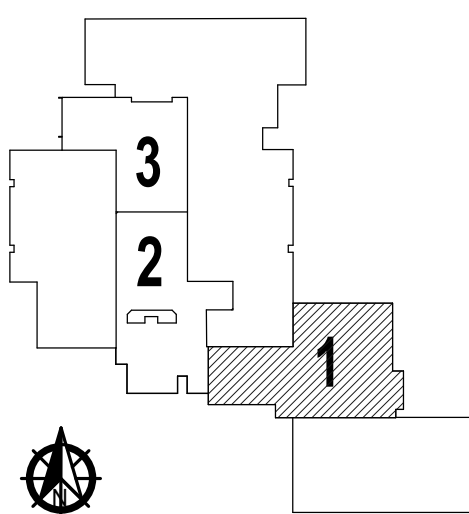


OWASSO 8th GRADE ADDITION

OWASSO PUBLIC
SCHOOLS

OWASSO, OK
2025

PROJECT



KEY PLAN

ELECTRICAL ROOF PLAN - AREA 1

SCALE: 1/8" = 1'-0"

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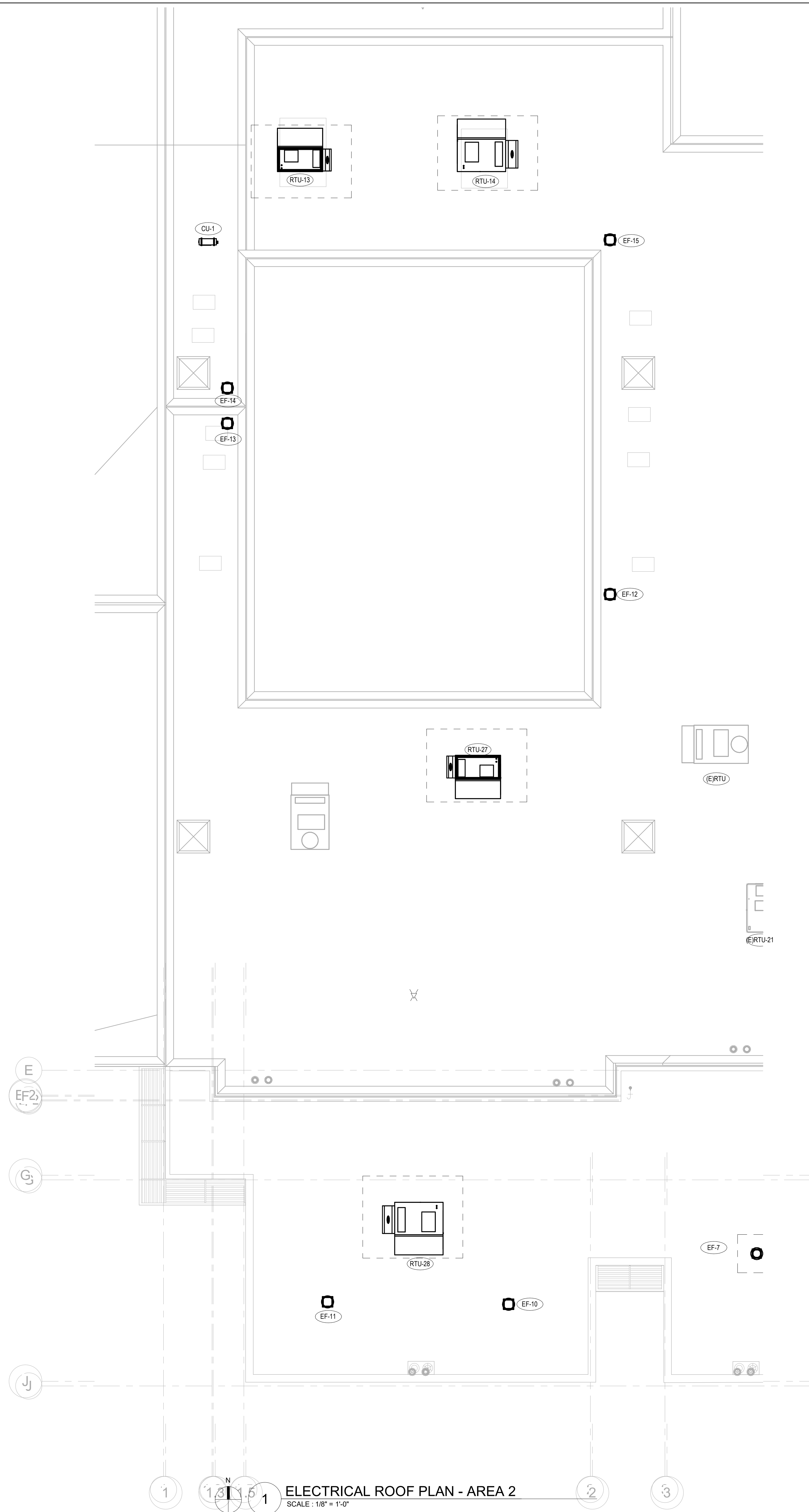
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ELECTRICAL ROOF
PLAN - AREA 1

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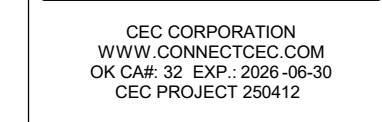
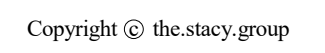
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KITCHEN EQUIPMENT CONNECTION SCHEDULE												
CALLOUT	EQUIPMENT DESCRIPTION	PHASE	VOLTAGE	CIRCUIT		WIRE CALLOUT	LOAD			DISCONNECT		NOTES
				PANEL	NUMBER		KVA	FLA	MCA	TYPE	NEMA	
1	WALK-IN COOLER EVAPORATOR COIL	1	120 V	PK	8	3/4"C, 1#12, #12N, #12G	0.19	0 A	0 A	HARDWIRED	-	
1A	WALK-IN COOLER EVAPORATOR COIL	1	120 V	PK	1	3/4"C, 1#12, #12N, #12G	0.19	2 A	3 A	NON-FUSED	-	
1B	WALK-IN COOLER CONDENSER	1	208 V	PK	4,6	3/4"C, 2#12, #12G	2.81	14 A	15 A	FUSED	NEMA 3R	
1C	WALK-IN COOLER CONDENSER	1	208 V	PK	26,28	3/4"C, 2#12, #12G	2.81	0 A	0 A	FUSED	NEMA 3R	
1D	WALK-IN FREEZER EVAPORATOR COIL	1	208 V	PK	7,9	3/4"C, 2#12, #12G	2.26	16 A	32 A	NON-FUSED	-	
1E	WALK-IN FREEZER CONDENSER	1	208 V	PK	11,13	3/4"C, 2#6, #10G	5.15	25 A	28 A	NON-FUSED	-	
12	BUN PAN RACK	1	120 V	PK	55	3/4"C, 1#12, #12N, #12G	0.75	0 A	0 A	DUPLEX RECEPTACLE	-	
16	ICE MAKER	1	120 V	PK	15	3/4"C, 1#12, #12N, #12G	1.06	9 A	11 A	GFCI RECEPTACLE	-	
21	CONVECTION OVEN	1	120 V	PK	12	3/4"C, 1#12, #12N, #12G	0.92	8 A	10 A	GFCI RECEPTACLE	-	
21	CONVECTION OVEN	1	120 V	PK	58	3/4"C, 1#12, #12N, #12G	0.92	8 A	10 A	GFCI RECEPTACLE	-	
21	CONVECTION OVEN	1	120 V	PK	62	3/4"C, 1#12, #12N, #12G	0.92	8 A	10 A	GFCI RECEPTACLE	-	
23	BRAISING PAN	1	120 V	PK	17	3/4"C, 1#12, #12N, #12G	0.60	5 A	6 A	HARDWIRED	-	
25	STEAMER	1	120 V	PK	38	3/4"C, 1#12, #12N, #12G	0.12	0 A	0 A	DUPLEX RECEPTACLE	-	
25	STEAMER	1	120 V	PK	75	3/4"C, 1#12, #12N, #12G	0.12	0 A	0 A	DUPLEX RECEPTACLE	-	
25	STEAMER	1	120 V	PK	79	3/4"C, 1#12, #12N, #12G	0.12	0 A	0 A	DUPLEX RECEPTACLE	-	
27	FOOD PROCESSOR	1	120 V	PK	35	3/4"C, 1#12, #12N, #12G	0.12	12 A	15 A	DUPLEX RECEPTACLE	-	
27	FOOD PROCESSOR	1	120 V	PK	36	3/4"C, 1#12, #12N, #12G	0.12	0 A	0 A	DUPLEX RECEPTACLE	-	
27	FOOD PROCESSOR	1	120 V	L1	46	3/4"C, 1#12, #12N, #12G	0.12	12 A	15 A	DUPLEX RECEPTACLE	-	
27	FOOD PROCESSOR	1	120 V	PK	69	3/4"C, 1#12, #12N, #12G	0.12	12 A	15 A	DUPLEX RECEPTACLE	-	
29	HOT WATER DISPENSER	1	120 V	PK	39	3/4"C, 1#12, #12N, #12G	0.12	0 A	0 A	GFCI RECEPTACLE	-	
30	EXHAUST HOOD	1	120 V	PK	44	3/4"C, 1#12, #12N, #12G	0.00	0 A	0 A	NON-FUSED	-	
31	FIRE SUPPRESSION SYSTEM	1	120 V	PK	48	3/4"C, 1#12, #12N, #12G	0.00	0 A	0 A	NON-FUSED	-	
32	EXHAUST HOOD FANS	1	120 V	PK	56	3/4"C, 1#12, #12N, #12G	0.00	0 A	0 A	NON-FUSED	-	
33	EXHAUST HOOD	1	120 V	PK	44	3/4"C, 1#12, #12N, #12G	0.00	0 A	0 A	NON-FUSED	-	
34	FIRE SUPPRESSION SYSTEM	1	120 V	PK	46	3/4"C, 1#12, #12N, #12G	0.00	0 A	0 A	NON-FUSED	-	
35	EXHAUST HOOD FANS	1	120 V	PK	54	3/4"C, 1#12, #12N, #12G	0.00	0 A	0 A	NON-FUSED	-	
36	EXHAUST HOOD	1	120 V	PK	32	3/4"C, 1#12, #12N, #12G	0.00	0 A	0 A	NON-FUSED	-	
37	FIRE SUPPRESSION SYSTEM	1	120 V	PK	50	3/4"C, 1#12, #12N, #12G	0.00	0 A	0 A	NON-FUSED	-	
38	EXHAUST HOOD FANS	1	120 V	PK	52	3/4"C, 1#12, #12N, #12G	0.00	0 A	0 A	NON-FUSED	-	
39	HEATED CABINET - 1 DOOR	1	120 V	PK	18	3/4"C, 1#12, #12N, #12G	1.44	0 A	0 A	DUPLEX RECEPTACLE	-	
39	HEATED CABINET - 1 DOOR	1	120 V	PK	47	3/4"C, 1#12, #12N, #12G	1.44	12 A	15 A	DUPLEX RECEPTACLE	-	
40	FOOD PROCESSOR	1	120 V	PK	10	3/4"C, 1#12, #12N, #12G	1.44	0 A	0 A	DUPLEX RECEPTACLE	-	
40	FOOD PROCESSOR	1	120 V	PK	43	3/4"C, 1#12, #12N, #12G	1.44	12 A	15 A	DUPLEX RECEPTACLE	-	
41	REFRIGERATOR - 2 DOOR	1	120 V	PK	16	3/4"C, 1#12, #12N, #12G	1.44	16 A	19 A	GFCI RECEPTACLE	-	
41	REFRIGERATOR - 2 DOOR	1	120 V	PK	53	3/4"C, 1#12, #12N, #12G	1.44	0 A	0 A	GFCI RECEPTACLE	-	
43	BEVERAGE REFRIGERATOR	1	120 V	PK	21	3/4"C, 1#12, #12N, #12G	0.24	0 A	0 A	DUPLEX RECEPTACLE	-	
43	BEVERAGE REFRIGERATOR	1	120 V	PK	23	3/4"C, 1#12, #12N, #12G	0.24	2 A	3 A	DUPLEX RECEPTACLE	-	
44	SERVING COUNTER - HOT/COLD/FREEZE	1	120 V	PK	25	3/4"C, 1#10, #10N, #10G	2.66	22 A	28 A	HARDWIRED	-	
44	SERVING COUNTER - HOT/COLD/FREEZE	1	120 V	PK	31	3/4"C, 1#10, #10N, #10G	2.66	0 A	0 A	HARDWIRED	-	
44	SERVING COUNTER - HOT/COLD/FREEZE	1	120 V	PK	42	3/4"C, 1#10, #10N, #10G	2.66	0 A	0 A	HARDWIRED	-	
44	SERVING COUNTER - HOT/COLD/FREEZE	1	120 V	PK	45	3/4"C, 1#10, #10N, #10G	2.66	0 A	0 A	HARDWIRED	-	
44	SERVING COUNTER - HOT/COLD/FREEZE	1	120 V	PK	80	3/4"C, 1#10, #10N, #10G	2.66	0 A	0 A	HARDWIRED	-	
45	SERVING COUNTER - FLAT TOP	1	120 V	PK	20	3/4"C, 1#12, #12N, #12G	0.24	0 A	0 A	GFCI RECEPTACLE	-	
45	SERVING COUNTER - FLAT TOP	1	120 V	PK	33	3/4"C, 1#12, #12N, #12G	0.24	0 A	0 A	GFCI RECEPTACLE	-	
46	PIZZA OVEN	1	208 V	PK	61,63	3/4"C, 2#4, #10G	9.99	0 A	0 A	SEE NOTES FOR RECEPTACLE CONFIGURATION	-	
48	MILK COOLER	1	120 V	PK	22	3/4"C, 1#12, #12N, #12G	0.60	5 A	6 A	DUPLEX RECEPTACLE	-	
48	MILK COOLER	1	120 V	PK	24	3/4"C, 1#12, #12N, #12G	0.60	0 A	0 A	DUPLEX RECEPTACLE	-	
49	CASHIERS STAND	1	120 V	PK	27	3/4"C, 1#12, #12N, #12G	0.60	0 A	0 A	DUPLEX RECEPTACLE	-	
49	CASHIERS STAND	1	120 V	PK	51	3/4"C, 1#12, #12N, #12G	0.60	0 A	0 A	DUPLEX RECEPTACLE	-	
50	HEAT CABINET	1	120 V	PK	30	3/4"C, 1#12, #12N, #12G	1.44	12 A	15 A	DUPLEX RECEPTACLE	-	
51	REFRIGERATED PIZZA PREP	1	120 V	PK	57	3/4"C, 1#12, #12N, #12G	0.60	46 A	72 A	DUPLEX RECEPTACLE	-	
55	DISH MACHINE	1	120 V	PK	34	3/4"C, 1#12, #12N, #12G	1.50	0 A	0 A	FUSED	-	
56	DISH MACHINE VENT	1	120 V	PK	29	3/4"C, 1#12, #12N, #12G	1.50	13 A	16 A	GFCI RECEPTACLE	-	
59	CAN OPENER	1	120 V	PK	37	3/4"C, 1#12, #12N, #12G	1.50	13 A	16 A	DUPLEX RECEPTACLE	-	
59	CAN OPENER	1	120 V	PK	74	3/4"C, 1#12, #12N, #12G	1.50	13 A	16 A	DUPLEX RECEPTACLE	-	
59	CAN OPENER	1	120 V	PK	76	3/4"C, 1#12, #12N, #12G	1.50	13 A	16 A	DUPLEX RECEPTACLE	-	
59	CAN OPENER	1	120 V	PK	78	3/4"C, 1#12, #12N, #12G	1.50	13 A	16 A	DUPLEX RECEPTACLE	-	

KITCHEN EQUIPMENT SCHEDULE NOTE

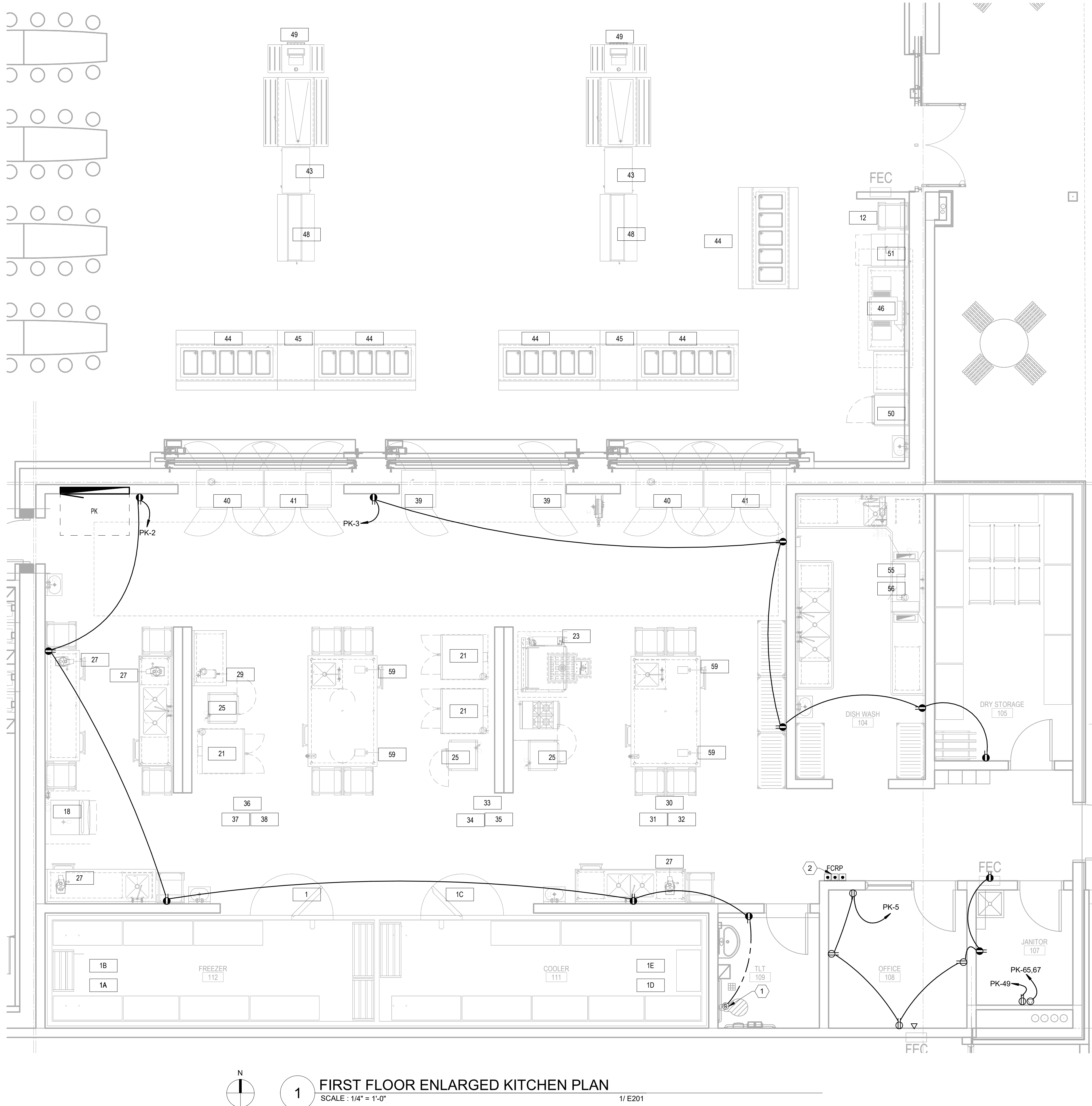
A. REF KITCHEN CONSULTANT PLANS FOR ADDITIONAL INFORMATION. PROVIDE REVISED EQUIPMENT BASED ON FINAL APPROVED SUBMITTALS.

B. COORDINATE FINAL REQUIREMENTS WITH SUBMITTED AND APPROVED EQUIPMENT. PROVIDE UPDATED EQUIPMENT SELECTIONS, BREAKERS, AND/OR CONDUCTOR SIZES BASED UPON DEVIATIONS FROM BASIS OF DESIGN. COORDINATE WITH KITCHEN CONTRACTOR PRIOR TO SUBMITTING SUBMITTALS. COORDINATE LOCATION PRIOR TO ROUGH-IN.

C. ALL 125 VOLT, 15 AND 20 AMPERE RECEPTACLES INSTALLED IN KITCHENS SHALL BE GFCI-GROUND FAULT CIRCUIT INTERRUPTING PROTECTED.

D. SIZE FUSES PER MANUFACTURERS RECOMMENDATIONS.

E. VERIFY KITCHEN EQUIPMENT NEMA RECEPTACLE CONFIGURATIONS WITH SUCCESSFUL KITCHEN EQUIPMENT PROVIDER AND PROVIDE ELECTRICAL DEVICES, CONNECTIONS, CIRCUIT BREAKERS, WIRING AS REQUIRED FOR A COMPLETE KITCHEN EQUIPMENT SYSTEM. PROVIDE COSTS IN BASE BID.



1 FIRST FLOOR ENLARGED KITCHEN PLAN
SCALE: 1/4" = 1'-0"

1/ E201

POWER PLAN NOTES

- A. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT.

KEYNOTES

1. CONNECT TO LOAD SIDE OF GFCI RECEPTACLE IN ROOM. PROVIDE CONNECTION TO HARDWIRED PLUMBING SENSOR. COORDINATE QUANTITY AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR. LOCATE CONNECTION POINT IN HIDDEN ACCESSIBLE LOCATION.
2. COORDINATE WITH SCIENCE FIXTURE VENDOR FOR REQUIRED GAS & DOMESTIC CONTROLS.

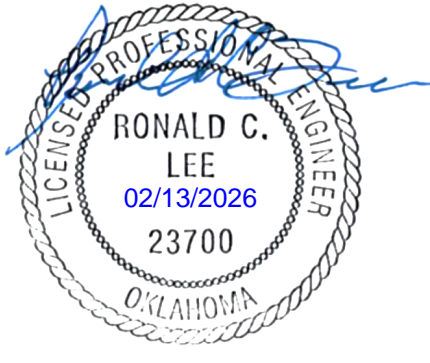
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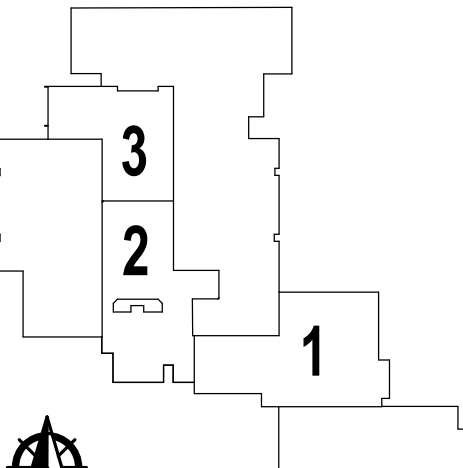
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OWASSO
8th GRADE
ADDITION

OWASSO PUBLIC
SCHOOLS
OWASSO, OK
2025

PROJECT



KEY PLAN

11.25.2025

ISSUE DATE

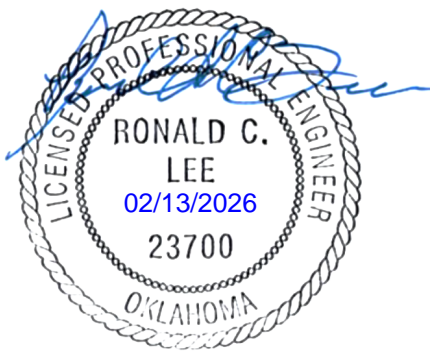
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ENLARGED
ELECTRICAL
KITCHEN PLAN

E501

SHEET TITLE

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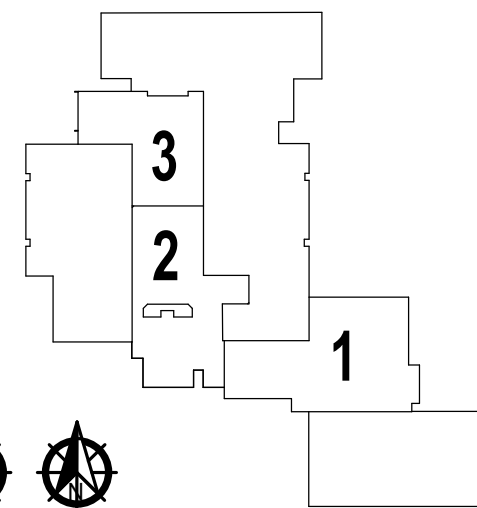


OWASSO 8th GRADE ADDITION

OWASSO PUBLIC
SCHOOLS

OWASSO, OK
2025

PROJECT



KEY PLAN

REVISIONS

11.25.2025

ISSUE DATE

ELECTRICAL DETAILS

E601

SHEET TITLE

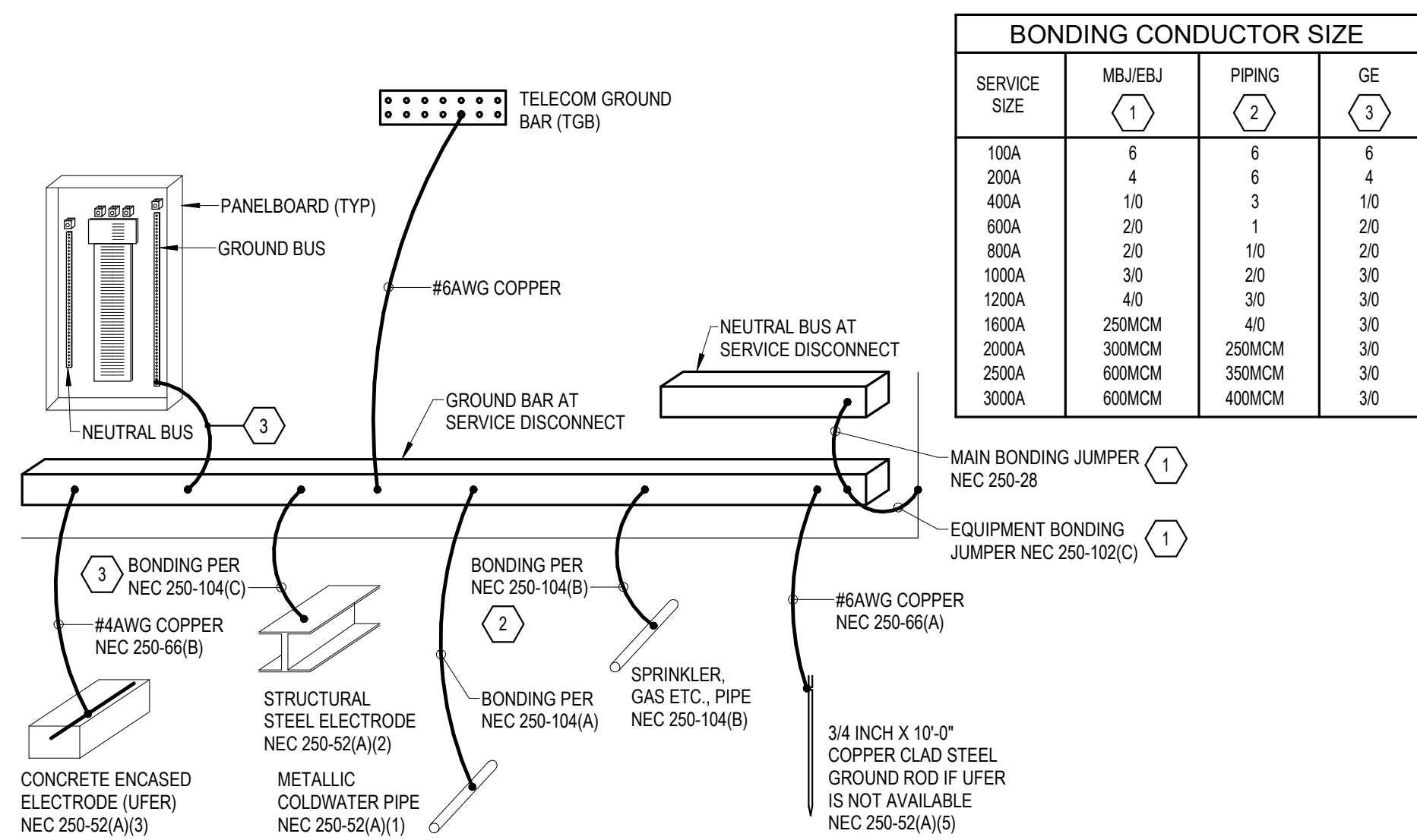
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GENERAL NOTES - GROUNDING DETAIL:

- THIS DIAGRAM IS PROVIDED TO ILLUSTRATE THE INTERCONNECTION OF THE GROUNDING ELECTRODE SYSTEM.
- NEC REFERENCES ARE FROM 2014 NATIONAL ELECTRICAL CODE.
- BONDS SHALL BE MECHANICAL TYPE. INTERIOR BONDS MAY BE EXOTHERMIC. ALL MECHANICAL CONNECTIONS SHALL BE ACCESSIBLE.
- BOND SIZE SHALL MATCH CONDUCTORS SHOWN ON FEEDER SCHEDULE. ALL SIZING ASSUMES COPPER CONDUCTORS. ADJUST FOR ALUMINUM ONLY IF ALLOWED BY THE SPECIFICATIONS.
- GROUND CONDUCTORS SHALL BE STRANDED COPPER INSULATED CABLE. UNLESS NOTED OTHERWISE, PROTECT IN CONDUIT WHEN SUBJECT TO PHYSICAL DAMAGE.

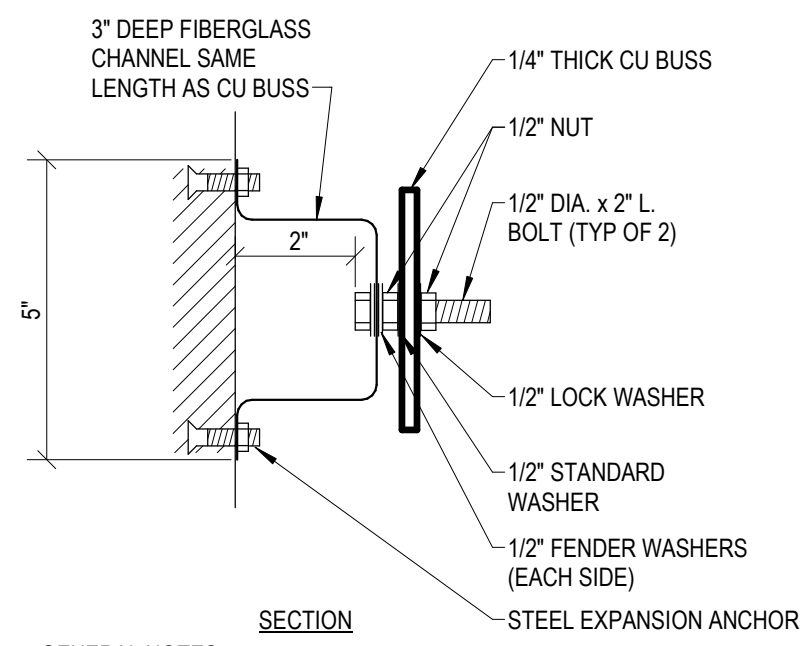
KEYED NOTES - GROUNDING DETAIL:

- SIZE PER TABLE 250-122(C)(1).
- SIZE PER NEC TABLE 250-122. ASSUMES MAIN DEVICE RATING IS EQUAL TO FEEDER SIZE.
- SIZE PER NEC TABLE 250-66.



1 GROUNDING AND BONDING DETAIL
SCALE : NOT TO SCALE

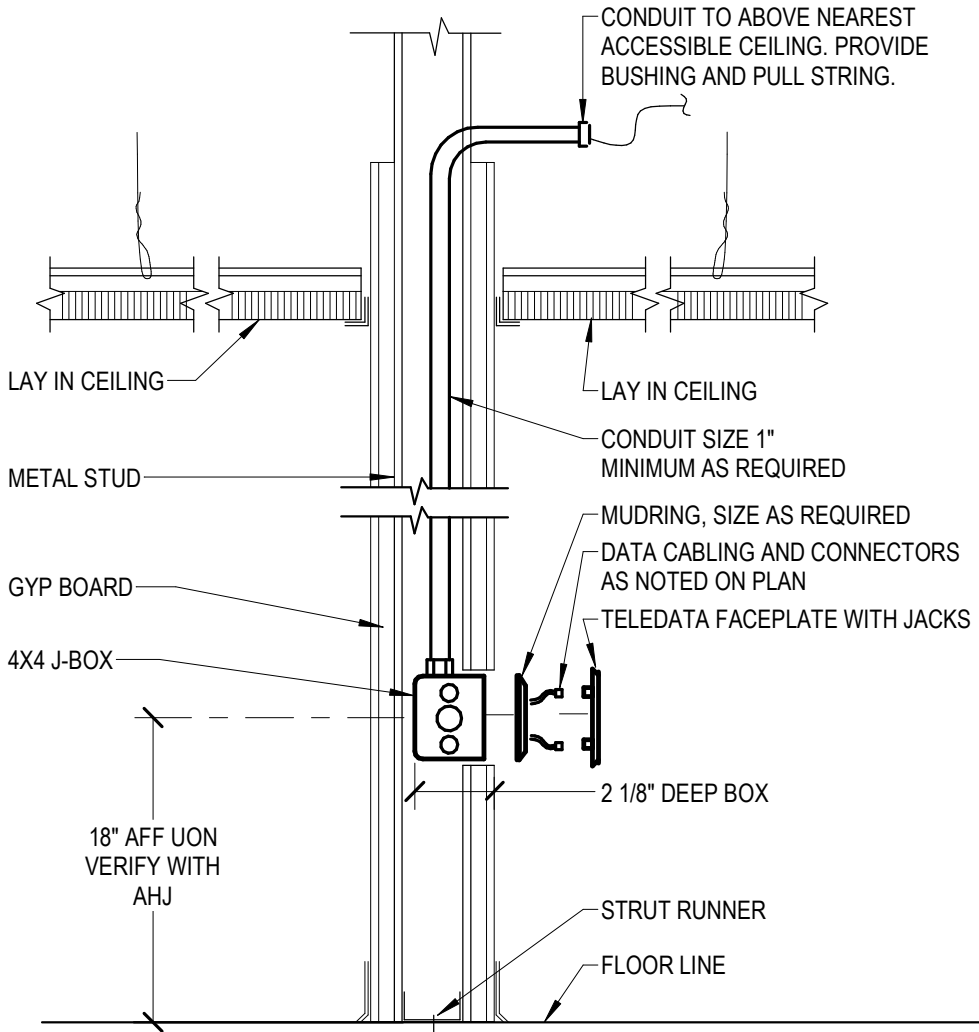
BONDING CONDUCTOR SIZE			
SERVICE SIZE	MB/JEBJ (1)	PIPING (2)	GE (3)
100A	6	6	6
200A	4	6	4
400A	10	3	10
600A	20	1	20
800A	20	10	20
1000A	30	20	30
1200A	40	30	30
1600A	250MCM	40	30
2000A	300MCM	250MCM	30
2500A	600MCM	350MCM	30
3000A	600MCM	400MCM	30



SECTION

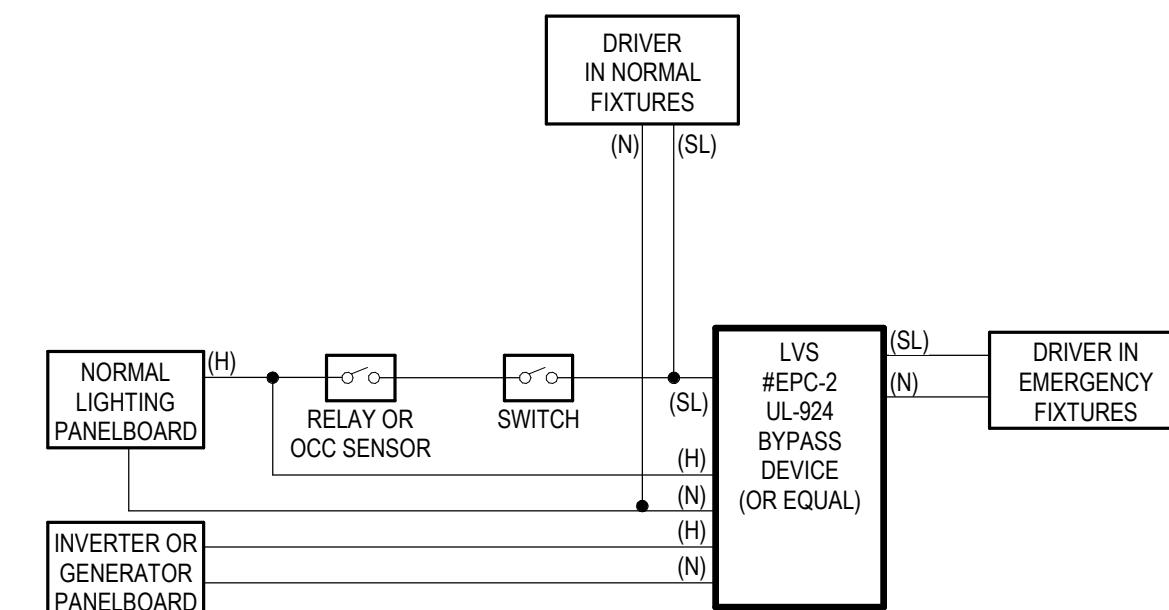
- GENERAL NOTES:
- MGB-MAIN GROUND BAR TO BE 4" X 16" MINIMUM. ADDITIONAL LENGTH AS REQUIRED.
 - TGB-TELECOM GROUND BAR TO BE 4" X 12" MINIMUM.
 - PROVIDE 2 MOUNTING POINTS TO WALL PER 12" OF BAR LENGTH.
 - PROVIDE HOLES TO ACCOMMODATE TWO HOLE LONG BARREL COMPRESSION LUGS.
 - ALL CONNECTIONS. ALL HARDWARE SHOWN SHALL BE STAINLESS STEEL.

2 GROUNDING BAR DETAIL (MGB + TGB)
SCALE : NOT TO SCALE



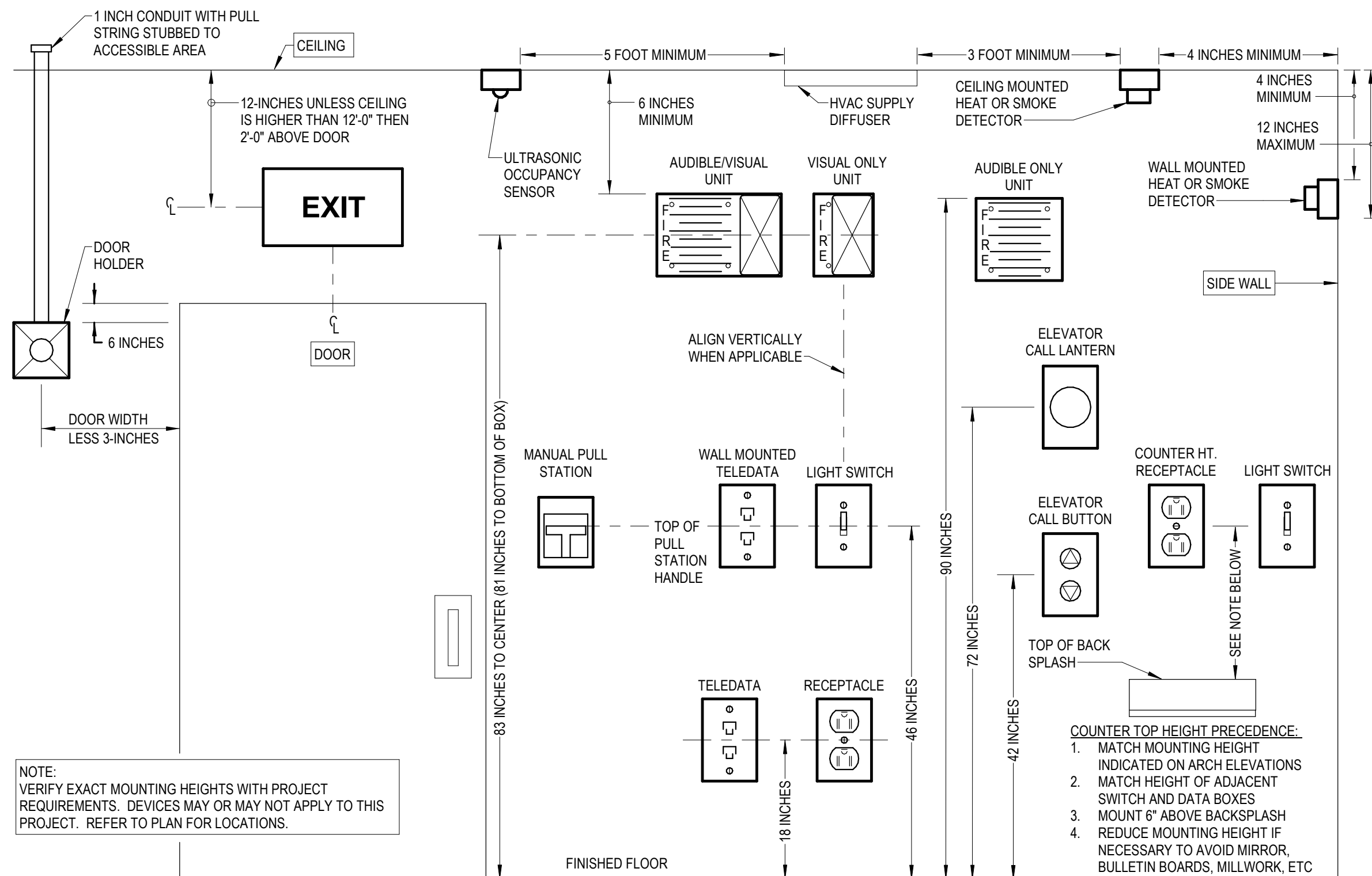
- GENERAL NOTES:
- INSTALLATION SHALL BE MODIFIED AS REQUIRED FOR CMU WALLS OR OTHER WALL OR CEILING TYPES ENCOUNTERED.
 - DO NOT MOUNT DEVICE BOXES BACK TO BACK OR SHARE A COMMON STUD SPACE.
 - EXTEND CONDUIT AS REQUIRED TO NEAREST ACCESSIBLE CEILING.

5 TELECOM OUTLET INSTALLATION
SCALE : NOT TO SCALE

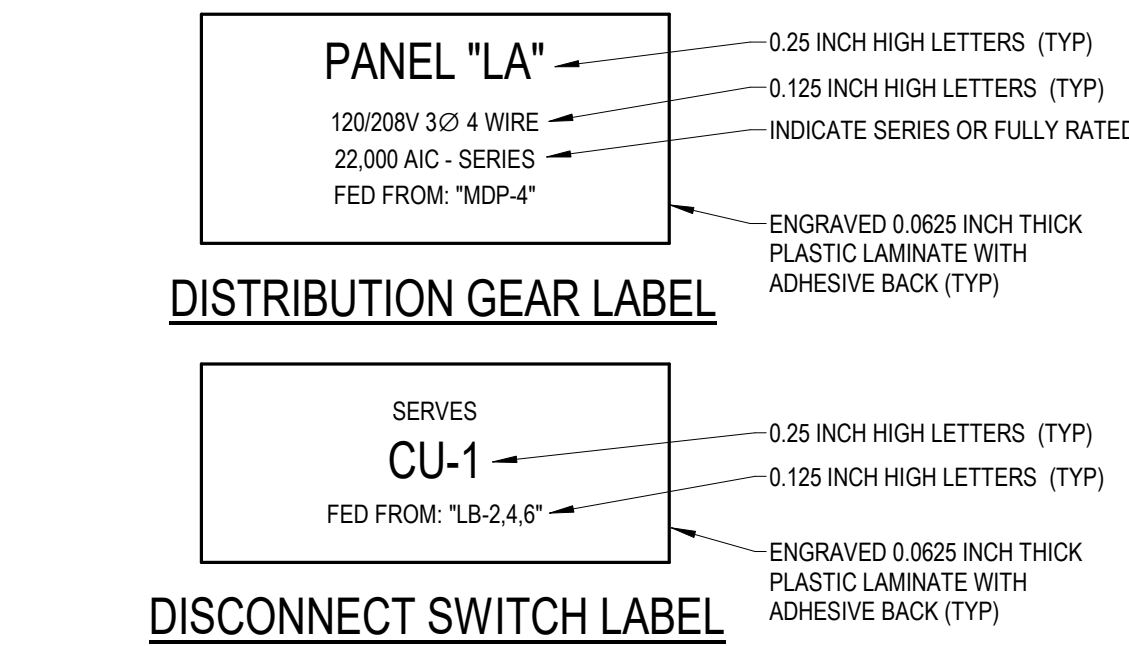


- NOTES:
- PROVIDE ONE UL-924 BYPASS DEVICE PER SWITCHING ZONE. SEE LIGHTING PLANS.
 - NORMAL OPERATION: RELAY/SENSOR/DIMMER SHALL CONTROL BOTH NORMAL AND EMERGENCY FIXTURES.
 - EMERGENCY OPERATION: UPON LOSS OF NORMAL POWER, EMERGENCY FIXTURES SHALL TURN ON.
 - EMERGENCY POWER SHALL REMAIN IN SEPARATE CONDUIT FROM NORMAL POWER.

7 EMERGENCY LIGHTING CONTROL - UL-924 NON-DIM
SCALE : NOT TO SCALE



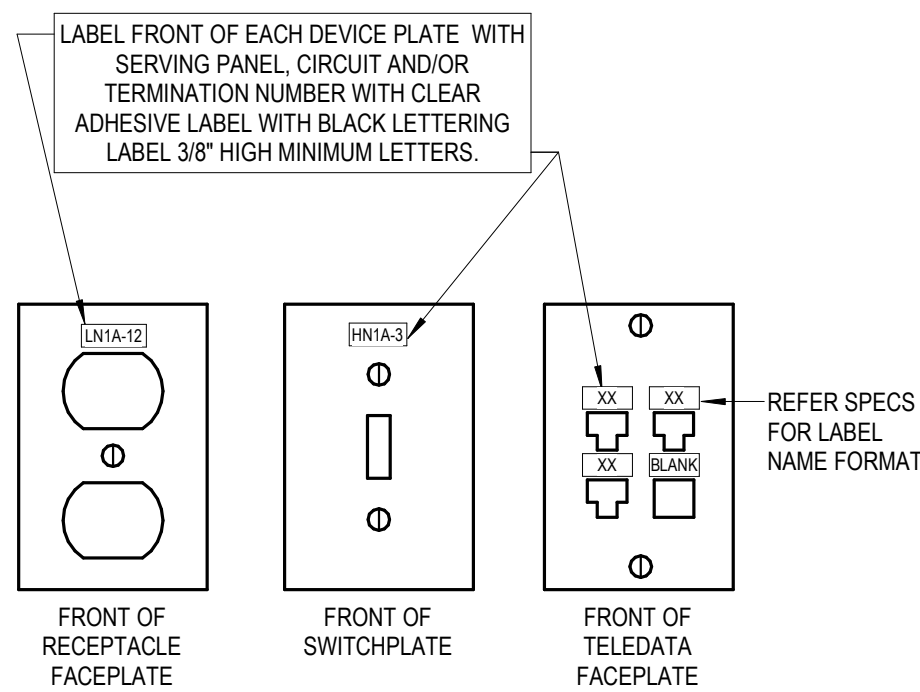
4 STANDARD DEVICE MOUNTING
SCALE : NOT TO SCALE



DISCONNECT SWITCH LABEL

- GENERAL NOTES:
- IN ADDITION TO ABOVE, PROVIDE SELF-ADHESIVE (LABEL MAKER) LABELS LISTED FOR THE ENVIRONMENT FOR ALL BRANCH BREAKERS/FUSES IN SWITCHBOARDS, MOTOR CONTROL CENTERS AND DISTRIBUTION PANELS. INDICATE EQUIPMENT SERVED.
 - EXAMPLE EQUIPMENT NAMES INDICATED ABOVE. UPDATE TO MATCH SPECIFIC PROJECT.

3 ELECTRICAL EQUIPMENT LABELING
SCALE : NOT TO SCALE



6 DEVICE PLATE IDENTIFICATION DETAIL
SCALE : NOT TO SCALE