

# ELECTRICAL SYMBOLS AND ABBREVIATIONS

MARK	DESCRIPTION	MARK	DESCRIPTION	MARK	DESCRIPTION
A	ABOVE COUNTER, REFER DETAIL 9/E-501	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	OCP	OVERCURRENT PROTECTION
AFF/AFG	ABOVE FINISHED FLOOR/GRADE	GND	GROUND	RCPT	RECEPTACLE
ALT	ALTERNATE	HOA	HAND OFF AUTOMATIC	SM	SURFACE MOUNTED
AMP	AMPERE	IN	INCHES	SPD	SURGE PROTECTION DEVICE
APPROX	APPROXIMATE	KW	KILOWATTS	SPEC	SPECIFICATION(S)
ARCH	ARCHITECT/ARCHITECTURAL	MCC	MOTOR CONTROL CENTER	TV	TELEVISION
ATS	AUTOMATIC TRANSFER SWITCH	MDP	MAIN DISTRIBUTION PANEL	TYP	TYPICAL
C	CONDUIT	MECH	MECHANICAL	UG	UNDERGROUND
CLG	CEILING	MTS	MANUAL TRANSFER SWITCH	UNO	UNLESS NOTED OTHERWISE
DISC	DISCONNECT SWITCH	NC	NORMALLY CLOSED	V	VOLTS
EC	ELECTRICAL CONTRACTOR	NEC	NATIONAL ELECTRIC CODE, NFPA 70	W/	WITH
EXIST	EXISTING	NIC	NOT IN CONTRACT	W/O	WITHOUT
EP	EXPLOSION PROOF	NL	NIGHT LIGHT	WP	WEATHERPROOF (DEVICE AND WHILE-IN-USE ENCLOSURE)
FT	FEET	NO	NORMALLY OPEN	WR	WEATHER RESISTANT (DEVICE AND FLIP ENCLOSURE)
GC	GENERAL CONTRACTOR	NTS	NOT TO SCALE	XFMR	TRANSFORMER
				1/E2	DETAIL 1 ON SHEET E2
⊖	HALFTONE SYMBOL INDICATES EXISTING	⊖	TAMPER RESISTANT NEMA 5-20R DUPLEX RECEPTACLE	⊖	SURFACE MOUNTED RACEWAY WITH POWER/ DATA ASSEMBLIES
⊖⊖	DASHED SYMBOL INDICATES DEMOLITION	⊖⊖	TAMPER RESISTANT NEMA 5-20R QUADPLEX RECEPTACLE, (2 DUPLEX RECEPENTS IN A 2-GANG BOX)	⊖	TELEPHONE OUTLET
—	ELECTRICAL 480V PANELBOARD	⊖A	TAMPER RESISTANT NEMA 5-20R DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER	W ⊖	WALL TELEPHONE OUTLET
—	ELECTRICAL 208V PANELBOARD	⊖	NEMA 5-20R DUPLEX RECEPTACLE MOUNTED IN CEILING	⊖	DATA OUTLET
■#/#	DISCONNECT SWITCH FUSIBLE UNLESS OTHERWISE NOTED, NUMBERS INDICATE FRAME/FUSE//POLE	⊖	TAMPER RESISTANT NEMA 5-20R DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER TYPE	⊖	TELEDATA COMBINATION OUTLET
□#/#	DISCONNECT SWITCH NON FUSIBLE UNLESS OTHERWISE NOTED, NUMBERS INDICATE FRAME, FUSE, POLE	⊖WP	WEATHER AND TAMPER RESISTANT NEMA 5-20R DUPLEX RECEPTACLE OR SAME IN WEATHERPROOF ENCLOSURE	⊖	WIRELESS ACCESS POINT
☒☒	CONTACTOR/MAGNETIC MOTOR STARTER OR COMBINATION TYPE	⊖WR	WEATHER AND TAMPER RESISTANT NEMA 5-20R DUPLEX RECEPTACLE OR SAME IN WEATHER RESISTANT ENCLOSURE	CR	CARD READER
☒	VFD W/ DISCONNECTING MEANS	⊖IG	NEMA 5-20R DUPLEX RECEPTACLE, ISOLATED GROUND TYPE	K	KEYPAD
FACP	FIRE ALARM CONTROL PANEL	⊖IG	NEMA 5-20R ISOLATED GROUND QUADPLEX, RECEPTACLE, ORANGE COLOR	□○	CCTV CAMERA
FAAP	FIRE ALARM ANNUNCIATOR PANEL	⊖	TAMPER RESISTANT SPLIT DUPLEX, NEMA 5-20R DUPLEX RECEPTACLE MOUNTED AT 18" WITH TWO CIRCUITS.	⊖	LIGHT FIXTURE ON (EM) LIFE SAFETY BRANCH, INVERTER, OR INTEGRAL 90 MINUTE BATTERY
NAC	SIGNAL POWER EXTENDER	⊖	TAMPER RESISTANT USB A/C TYPE RECEPTACLE (LEVITON T5833 OR EQUAL)	\$ <sup>3</sup>	LIGHT SWITCH, SPST, 20A. NUMBER INDICATES DPST, 3-WAY, 4-WAY
GAP	GENERATOR ANNUNCIATOR PANELBOARD	⊖EWC	ELECTRIC WATER COOLER, NEMA 5-20R DUPLEX RECEPT. MOUNT PER MANUFACTURER'S REQUIREMENTS. PROVIDE GFCI BREAKER.	\$ <sup>b</sup>	LIGHT SWITCH, SPST, 20A. LETTER INDICATES CONTROL ZONE
⌚	MOTOR OUTLET/CONNECTION - SEE SCHEDULE	⊖	SPECIAL OUTLET - SEE DEVICE SCHEDULE	\$P	LIGHT SWITCH, PILOT LIGHT "ON", 20A
⌚	EQUIPMENT CONNECTION - SEE SCHEDULE	⊖	SPECIAL OUTLET - POKE THRU - SEE SCHEDULE	\$K	LIGHT SWITCH, KEY-OPERATED, 20A
XXXX	MECHANICAL EQUIPMENT TAG	FF	FURNITURE FEED - FLOOR BOX - TRIM COLOR TBD	\$M	MANUAL MOTOR STARTER SWITCH W/ OVERLOAD
XXXX	OWNER EQUIPMENT TAG	FF	FURNITURE FEED - POKE THRU - TRIM COLOR TBD	\$V	VOLUME CONTROL
→	RISER OR CONDUIT TURNED DOWN	□	FLOOR BOX - DUPLEX WITH METALLIC FLIP COVER	\$WP	WEATHER PROOF SWITCH
○	RISER OR CONDUIT TURNED UP	□□	FLOOR BOX - QUAD WITH METALLIC FLIP COVER	LV	LOW VOLTAGE/BATTERY POWERED LIGHTING CONTROL STATION. PROVIDE BACKBOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING
□	CAP ON PIPE	⊖	JUNCTION BOX (J-BOX OR JB)	M	OCCUPANCY SENSOR SWITCH- WALL MOUNTED
—	OPEN CONDUIT END	IR	INFRARED PLUMBING MOTION SENSOR	D	WALLBOX DIMMER SWITCH
○	TEST PORT	P	POWER POLE	F	FAN SWITCH/CONTROLLER
→ A-1,3,5	HOMERUN WITH BRANCH CIRCUIT(S) AS INDICATED	OH	OVERHEAD POWERED DOOR	OS	OCCUPANCY SENSOR - CEILING MOUNTED - SEE LIGHTING CONTROL SCHEDULE
→ A-1,3,5	PARTIAL HOMERUN WITH BRANCH CIRCUIT(S) AS INDICATED	PB	PULL BOX	OS	OCCUPANCY SENSOR - WALL MOUNTED - SEE LIGHTING CONTROL SCHEDULE
—	EMERGENCY CIRCUIT	S	SPEAKER (WALL OR CEILING MOUNTED)	PC	OUTDOOR PHOTOELECTRIC CELL - SEE SENSOR SCHEDULE
—	LOW VOLTAGE CIRCUIT	HS	PUSH BUTTON	DS	INDOOR DAYLIGHT SENSOR - SEE SENSOR SCHEDULE
—	NORMAL CIRCUIT	;	START STOP		
—	UNDERGROUND CIRCUIT				

## **GENERAL ELECTRICAL REQUIREMENTS:**

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, 72, 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.

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.

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 IN ACTUAL SITE CONDITIONS AND CONCEALED CONSTRUCTION SHALL BE BROUGHT TO OWNER'S ATTENTION FOR RESOLUTION PRIOR TO COMMENCING APPLICABLE WORK.

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.

ELECTRICAL SYSTEM PENETRATIONS THROUGH NEW & EXISTING WALLS, FLOOR/CEILING, OR ROOF CONSTRUCTION SHALL BE THOROUGHLY FILLED WITH FIRE RESISTANT MATERIAL (STUFFING FIBRE-FLAX 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.

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.

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

CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL WIRING AND CONDUIT, AND OTHER 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.

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.

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.

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

CONDITIONS MAY OCCUR THAT WILL REQUIRE MINOR REVISIONS IN ARRANGEMENT OF DUCTWORK, 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.

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

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

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.

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

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.

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.

CONCEAL ALL PIPING AND CONDUIT IN FINISHED AREAS UNLESS OTHERWISE NOTED. ALL PIPING, DEVICES, APPARATUS, EQUIPMENT, ETC., SHALL BE PROPERLY SUPPORTED AND BRACED VERTICALLY AND HORIZONTALLY IN ACCORDANCE WITH CODES AND AS REQUIRED TO PREVENT EXCESSIVE MOVEMENT.

20. COORDINATE CEILING MOUNTED FIXTURES, DEVICES, ETC., WITH MECHANICAL DRAWINGS AND ARCHITECT'S 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, CONDUCTORS, BOXES, CONDUIT, ADJUST OVER-CURRENT PROTECTION DEVICES, PROVIDE ADDITIONAL OCPD, 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 TENANTS 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, THHN, THWN OR THW, WITH GREEN WIRE GROUND AND SHALL BE CONNECTED TO A 20A BREAKER, MINIMUM.

33. ALL NEW CONCEALED CONDUITS SHALL BE 3/4" MINIMUM EMT WITH COMPRESSION 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 CONDUCTORS 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. PENCIL IN "SPARE" FOR UNUSED BRANCH OVER CURRENT DEVICES AND LEAVE "SPACES" 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.

50. CONTRACTOR SHALL COORDINATE AS REQUIRED, ALL CONDUITS, ROUGH-INS, CONNECTIONS, ETC., FOR SECURITY, TELEPHONE, COMPUTER/DATA DEVICES AND EQUIPMENT BY OWNER OR OTHERS.

51. WHERE RELOCATED OR NEW LIGHTING FIXTURES ARE TO BE CONNECTED TO CIRCUITING OF ADJACENT FIXTURES, CONTRACTOR SHALL VERIFY EACH 20A CIRCUIT DOES NOT EXCEED 1800 VA (120V) OR 4400 VA (277V) OF LOAD UNLESS APPROVED BY ENGINEER. LIGHTING SHALL BE CONNECTED USING NEW AND/OR EXISTING WIRING/CONDUIT AS APPLICABLE, AND SHALL BE CONTROLLED IN SIMILAR ZONE SWITCHING ARRANGEMENT AS EXISTING FIXTURES.

52. ALL LAMPING SHALL BE 4000K TEMPERATURE THRU-OUT, TYPICAL, UNLESS NOTED OTHERWISE. LAMPING COLOR SHALL BE REVIEWED AND APPROVED BY THE OWNER PRIOR TO PURCHASE OF LIGHTING FIXTURES. ADJUST FINAL COLOR TEMPERATURES AS REQUIRED.

53. LIGHTING FIXTURE BALLASTS SHALL BE SUITABLE FOR CIRCUIT VOLTAGE TO WHICH CONNECTED, FIELD VERIFY.

54. COORDINATE MOUNTING LOCATIONS OF ALL LIGHT SWITCHES, EXIT SIGNS, ETC., WITH ARCHITECT'S DRAWINGS AND SITE CONDITIONS PRIOR TO ROUGH-IN.

55. FIXTURES AND SWITCHES FOUND TO BE EXISTING AND NOT INDICATED TO BE RE-USED AS INSTALLED SHALL BE REMOVED WITH CEILING/WALL PATCHED AND PAINTED OR BLANK COVER PLATE PROVIDED AS REQUIRED, CONFIRM.

56. FIRE ALARM CONTRACTOR SHALL CAREFULLY DETERMINE IF A FIRE ALARM SYSTEM IS REQUIRED. FIRE ALARM CONTRACTOR SHALL TAKE INTO ACCOUNT IF A SPRINKLER SYSTEM IS TO BE PROVIDED, OCCUPANCY TYPE AND QUANTITY OF OCCUPANTS PER THE ARCHITECTURAL DRAWINGS, PROXIMITY TO THE FIRE HYDRANTS, QUANTITY OF FLOORS, EXISTING CONDITIONS, AND LOCAL AND NATIONAL CODES THAT WOULD REQUIRE A FIRE ALARM SYSTEM UNDER ANY OTHER CONDITIONS. IF A FIRE ALARM SYSTEM IS REQUIRED, THE FIRE ALARM SYSTEM SHALL BE A DESIGN BUILD SYSTEM. FIRE ALARM DESIGN SHALL BE BY THE CONTRACTOR AND APPROVED BY THE STATE FIRE MARSHAL AND LOCAL AUTHORITIES HAVING JURISDICTION. SHOP DRAWINGS OF FINAL APPROVED FIRE ALARM DESIGN SHALL BE SUBMITTED TO ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN AND PURCHASING OF ANY EQUIPMENT AND DEVICES. CONTRACTOR SHALL PROVIDE AND INSTALL A COMPLETE AND OPERATIONAL SYSTEM. IF IT IS DETERMINED THAT A FIRE ALARM SYSTEM IS REQUIRED AFTER THE BID, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A CODE COMPLIANT SYSTEM AT NO ADDITIONAL COST TO THE OWNER.

57. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR LOCATIONS, QUANTITIES, AND ELECTRICAL CONNECTION REQUIREMENTS OF EQUIPMENT. REFER TO MECHANICAL EQUIPMENT ELECTRICAL CONNECTIONS SCHEDULE FOR MECHANICAL AND PLUMBING EQUIPMENT POWER REQUIREMENTS AND CIRCUITING.

58. PROVIDE AND INSTALL WHITE LABELS WITH BLACK LETTERING FOR IDENTIFICATION OF PANEL AND CIRCUITS.

59. PRIOR TO ROUGH-IN OF ANY DEVICES, COORDINATE WITH ARCHITECT MILLWORK ELEVATION DRAWINGS FOR EXACT LOCATIONS.

60. SUBMITTAL PROCESS AND SUBSTITUTIONS - ENGINEER WILL ONLY REVIEW QUANTITY (1) ONE SUBSTITUTE SUBMITTAL PACKAGE. IF THE SUBMITTED SUBSTITUTED PACKAGE DOES NOT MEET OR EXCEED THE SPECIFIED PACKAGE IN QUALITY AND PERFORMANCE, THE SPECIFIED PACKAGE (IN ENTIRETY) SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. PRIOR APPROVAL SUBMITTALS ARE NOT REQUIRED FOR BIDDING PURPOSES. LIGHT FIXTURE PACKAGES SHALL BE PROVIDED BY SUPPLIERS WITHIN THE STATE IN WHICH THE PROJECT IS CONSTRUCTED. NO OUT OF STATE SUPPLIERS LIGHTING PACKAGES WILL BE ACCEPTED.

61. KITCHEN EQUIPMENT, FUELING EQUIPMENT, AND GAS VALVES SHALL BE PROVIDED WITH SHUNT-TRIP BREAKERS AND EMERGENCY POWER OFF SWITCHES AS REQUIRED. E.C. SHALL COORDINATE ADDITIONAL REQUIRED SPACES IN PANELS WITH PANEL MANUFACTURER PRIOR TO ORDERING EQUIPMENT. INCLUDE ALL COSTS IN BASE BID.

62. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING TEMPORARY SERVICE FOR CONSTRUCTION. E.C. SHALL ENDURE ALL ASSOCIATED COSTS.

63. ELECTRICAL CONTRACTOR SHALL CONTACT THE ELECTRICAL UTILITY PROVIDER TO DETERMINE FINAL UTILITY REQUIREMENTS, LOCATIONS, AND SIZES PRIOR TO ROUGH-IN AND PURCHASE OF EQUIPMENT. E.C. SHALL ADJUST ALL EQUIPMENT, CONDUCTORS, CONDUIT, AND OTHER ASSOCIATED APPURTENANCES AS REQUIRED TO ACCOMMODATE THE ELECTRICAL UTILITY PROVIDER AS REQUIRED. E.C. SHALL INCLUDE ALL ASSOCIATED COSTS IN BASE BID.

64. LIGHTING FIXTURES SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED FOR EXACT PLACEMENT. FINAL LIGHTING FIXTURE LOCATIONS (INTERIOR AND EXTERIOR) SHALL BE COORDINATED WITH THE ARCHITECT AND OWNER FOR FINAL FINISH, LOCATION, LAMP COLOR, ETC. PRIOR TO ROUGH-IN AND PURCHASE OF EQUIPMENT.

65. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 3.5" THICK AND REINFORCED WITH #3 BARS AT 12" ON-CENTER EACH WAY, 1-1/2" CLEAR COVER FROM THE TOP OF THE SLAB, 3/4" CHAMFER ON TOP EDGES, EXTEND PAD 4" BEYOND EQUIPMENT FOOTPRINT.

## 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 WHENEVER POSSIBLE.
4. PLENUM RATED CABLE SHALL BE SUPPORTED BY DEDICATED J-HOOKS ABOVE CEILING. PROVIDE 1/2" CONDUIT WITHIN WALLS OR WHEN CABLE IS EXPOSED BELOW 10' AFF.
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.
2. EXTEND THE EXISTING SYSTEM TO SERVE THE ADDITION. CAPACITY TO DO SO HAS BEEN CONFIRMED BY OWNER.

# **ELECTRIC UTILITY RESPONSIBILITY MATRIX PAD MOUNTED**

ITEM	CONTRACTOR	UTILITY
CONDUIT	X	
DUCTORS		X
ER PAD		X
ER		X
ACK	X	
	I	F
		X
CONDUIT & CONDUCTORS	X	

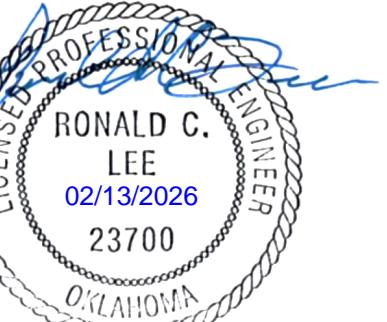
Sheet List

Sheet Number	Sheet Name
E001	ELECTRICAL COVER SHEET
E002	ELECTRICAL ONE-LINE DIAGRAM & S
E003	ELECTRICAL SCHEDULES
E004	ELECTRICAL SCHEDULES
E100	FIRST FLOOR OVERALL REFERENCE
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 PL
E601	ELECTRICAL DETAILS

## LOW VOLTAGE SCOPE

WNER LOW VOLTAGE SPECIFICATIONS / REQUIREMENTS  
CONTRACTOR SCOPE PRIOR TO BID.  
CABLE SHALL BE SUPPORTED BY DEDICATED J-HOOKS ABOVE  
ILING UON. ROUTE CABLE IN CONDUIT WHEN CABLE IS  
HARD CEILING) OR EXPOSED (NO CEILING).  
TY, ACCESS CONTROL, AUDIO / VIDEO  
O PROVIDE INFRASTRUCTURE (RACEWAY, LINE VOLTAGE POWER)  
OR A COMPLETE SYSTEM.  
CES, LOCATIONS, AND INFORMATION ARE PROVIDED FOR BIDDING  
Y. COORDINATE FINAL REQUIREMENTS WITH PROVIDING VENDOR  
PRIOR TO ROUGH-IN.  
VIDE CABLING, RACK AND ACTIVE EQUIPMENT UNDER SEPARATE  
I AND ACCESS CONNECTIONS SHALL GO TO THE NEW CONTROL

5.2025



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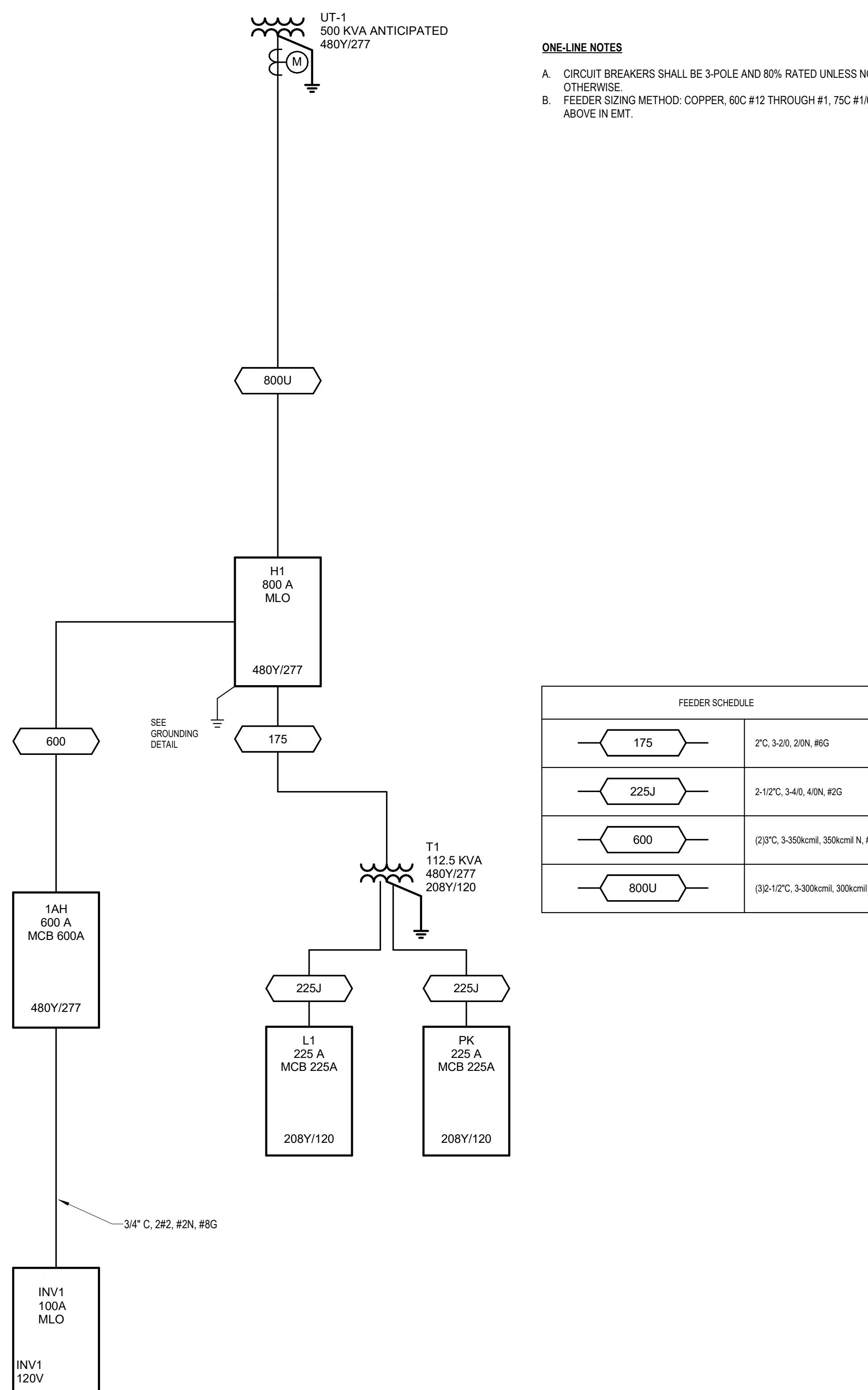
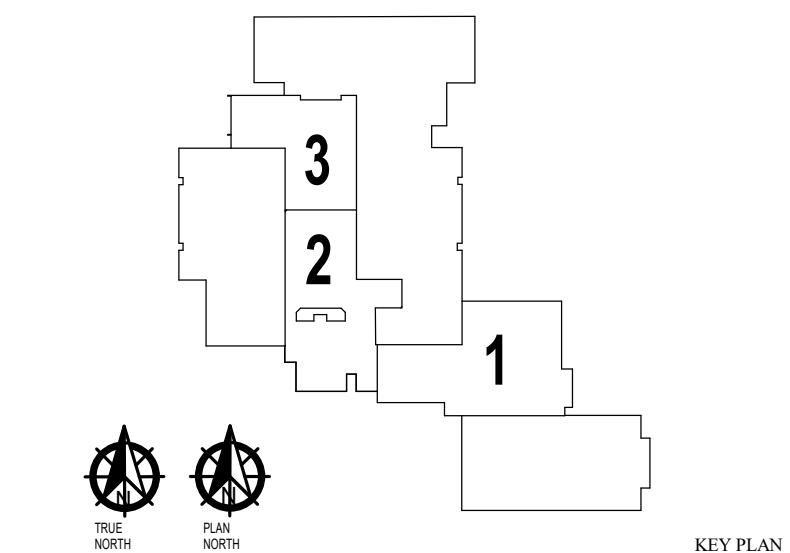


# OWASSO 8th GRADE ADDITION

# OWASSO PUBLIC SCHOOLS

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## OWASSO, OK 2025



### ONE-LINE NOTES

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

FAULT CURRENT SCHEDULE								
DEVICE	FAULT AT DEVICE	AIC RATING	VOLTAGE	FEEDER		TRANSFORMER		
				SIZE	LENGTH	KVA	Z%	FAULT AT PRIMARY
DCH1	10,038	22,000 AMPS SYMMETRICAL	480V	(2)350kcmil	445'			
UT-1	!!! 24,195 !!!	22,000 AMPS SYMMETRICAL	12,470V			500	2.5	UTILITY
PK	7,942	10,000 AMPS SYMMETRICAL	208V	4/0	113'			
L1	13,687	22,000 AMPS SYMMETRICAL	208V	4/0	16'			
T1	15,261	22,000 AMPS SYMMETRICAL	480V	2/0	19'	112.5	2	130,961
1AH	!!! 92,703 !!!	22,000 AMPS SYMMETRICAL	480V	(2)350kcmil	110'			
H1	UTILITY	22,000 AMPS SYMMETRICAL	480V					
1AH	12,013		480V			75	1.75	UTILITY

## MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

CALLOUT	PHASE	VOLTAGE	CIRCUIT		WIRE CALLOUT	LOAD			AVAILABLE FAULT CURRENT	DISCONNECT		NOTES
			PANEL	NUMBER		KVA	FLA	MCA		TYPE	NEMA	
AC-1	1	208 V	(E) PL3	5,7	3/4"C, 2#10, #10G	0.00	0 A	0 A	513	HARDWIRED	-	
AC-2	1	208 V	L1	32,34	3/4"C, 2#10, #10G	0.00	0 A	0 A	691	HARDWIRED	-	
CU-1	1	208 V	(E) PL3	5,7	3/4"C, 2#10, #10G	3.56	17.1 A	19 A	513	NON-FUSED	NEMA 3R	
CU-2	1	208 V	L1	32,34	3/4"C, 2#10, #10G	3.56	17.1 A	19 A	691	NON-FUSED	NEMA 3R	
DEF-1	1	120 V	PK	59	3/4"C, 1#12, #12N, #12G	0.52	4.3 A	0 A	702	FUSED	NEMA 3R	
DOAU-1	3	480 V	1AH	38,40,42	1-1/2"C, 3-1/0, #6G	87.36	84 A	105 A	19,393	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
EF-1	1	120 V	L1	38	3/4"C, 1#12, #12N, #12G	0.02	0.2 A	1 A	648	TOGGLE SWITCH	-	
EF-2	1	120 V	L1	38	3/4"C, 1#12, #12N, #12G	0.02	0.2 A	1 A	648	TOGGLE SWITCH	-	
EF-3	1	120 V	L1	42	3/4"C, 1#12, #12N, #12G	0.58	4.8 A	0 A	1,150	TOGGLE SWITCH	-	
EF-4	1	120 V	L1	40	3/4"C, 1#12, #12N, #12G	0.18	1.5 A	2 A	2,499	TOGGLE SWITCH	NEMA 3R	
EF-5	1	120 V	L1	40	3/4"C, 1#12, #12N, #12G	0.18	1.5 A	2 A	2,499	TOGGLE SWITCH	NEMA 3R	
EF-6	1	120 V	L1	40	3/4"C, 1#12, #12N, #12G	0.18	1.5 A	2 A	2,499	TOGGLE SWITCH	NEMA 3R	
EF-7	1	120 V	L1	43	3/4"C, 1#12, #12N, #12G	0.34	2.8 A	4 A	1,544	TOGGLE SWITCH	NEMA 3R	
EF-8	1	120 V	L1	45	3/4"C, 1#12, #12N, #12G	0.02	0.2 A	1 A	1,235	TOGGLE SWITCH	NEMA 3R	
EF-9	1	120 V	L1	45	3/4"C, 1#12, #12N, #12G	0.02	0.2 A	1 A	1,235	TOGGLE SWITCH	NEMA 3R	
EF-10	1	120 V	L1	47	3/4"C, 1#12, #12N, #12G	0.18	1.5 A	2 A	1,084	TOGGLE SWITCH	NEMA 3R	
EF-11	1	120 V	L1	47	3/4"C, 1#12, #12N, #12G	0.18	1.5 A	2 A	1,084	TOGGLE SWITCH	NEMA 3R	
EF-12	1	120 V	(E)7PB	2	3/4"C, 1#12, #12N, #12G	0.18	1.5 A	2 A	818	TOGGLE SWITCH	NEMA 3R	
EF-13	1	120 V	(E)7PB	2	3/4"C, 1#12, #12N, #12G	0.18	1.5 A	2 A	818	TOGGLE SWITCH	NEMA 3R	
EF-14	1	120 V	(E)7PB	2	3/4"C, 1#12, #12N, #12G	0.18	1.5 A	2 A	818	TOGGLE SWITCH	NEMA 3R	
EF-15	1	120 V	(E)7PB	2	3/4"C, 1#12, #12N, #12G	0.18	1.5 A	2 A	818	TOGGLE SWITCH	NEMA 3R	
EF-16	1	120 V	(E)7PB	4	3/4"C, 1#12, #12N, #12G	0.02	0 A	0 A	352	TOGGLE SWITCH	-	
EF-17	1	120 V	(E)7PB	4	3/4"C, 1#12, #12N, #12G	0.02	0 A	0 A	352	TOGGLE SWITCH	-	
EF-18	1	120 V	(E) PL3	11	3/4"C, 1#12, #12N, #12G	0.02	0.2 A	1 A	3,764	TOGGLE SWITCH	-	
EF-19	1	120 V	(E) PL3	11	3/4"C, 1#12, #12N, #12G	0.02	0.2 A	1 A	3,764	TOGGLE SWITCH	-	
EF-20	1	120 V	(E) PL3	11	3/4"C, 1#12, #12N, #12G	0.02	0.2 A	1 A	3,764	TOGGLE SWITCH	-	
EF-21	1	120 V	(E) PL3	11	3/4"C, 1#12, #12N, #12G	0.02	1.5 A	2 A	3,764	TOGGLE SWITCH	-	
EF-22	1	120 V	(E) PL3	14	3/4"C, 1#12, #12N, #12G	0.02	0 A	0 A	2,076	TOGGLE SWITCH	-	
EF-23	1	120 V	(E) PL3	14	3/4"C, 1#12, #12N, #12G	0.02	0 A	0 A	2,076	TOGGLE SWITCH	-	
KEH-1	3	480 V	1AH	8,10,12	3/4"C, 3#12, #12G	4.99	6 A	0 A	1,778	FUSED	NEMA 3R	
KEH-2	3	480 V	1AH	13,15,17	3/4"C, 3#12, #12G	4.99	6 A	0 A	1,417	FUSED	NEMA 3R	
KEH-3	3	480 V	1AH	14,16,18	3/4"C, 3#12, #12G	4.99	6 A	0 A	1,269	FUSED	NEMA 3R	
RTU-4	3	480 V	(E)1P	21,23,25	3/4"C, 3#12, #12G	11.31	13.6 A	17 A	1,973	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-5	3	480 V	(E)1P	20,22,24	3/4"C, 3#12, #12G	10.65	12.8 A	16 A	1,440	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-13	3	480 V	H1	7,9,11	3/4"C, 3#10, #10G	17.96	23.4 A	26 A	811	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-14	3	480 V	H1	2,4,6	3/4"C, 3#6, #10G	27.71	33.3 A	37 A	2,151	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-27	3	480 V	1AH	19,21,23	3/4"C, 3#10, #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	3/4"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	3/4"C, 3#8, #10G	20.22	23 A	26 A	2,565	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-30	3	480 V	1AH	31,33,35	3/4"C, 3#6, #10G	27.71	33.3 A	37 A	5,459	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-31	3	480 V	1AH	25,27,29	3/4"C, 3#8, #10G	20.22	24.3 A	27 A	4,230	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-32	3	480 V	1AH	32,34,36	1-1/4"C, 3#2, #8G	48.57	63.9 A	71 A	10,983	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
RTU-33	3	480 V	1AH	37,39,41	1-1/4"C, 3#2, #8G	48.57	63.9 A	71 A	7,606	HARDWIRED	NEMA 3R	CONVENIENCE RECEPT AND EXCESSORIES PROVIDED BY MECH CONTRACTOR.
SLV-1	1	120 V	INV1	5	3/4"C, 1#12, #12N, #12G	0.01	16 A	20 A	551	TOGGLE SWITCH	-	PROVIDE LOW VOLTAGE TRANSFORMER, COORDINATE W/MECH CONTRACTOR
SLV-2	1	120 V	INV1	5	3/4"C, 1#12, #12N, #12G	0.01	16 A	20 A	551	TOGGLE SWITCH	-	PROVIDE LOW VOLTAGE TRANSFORMER, COORDINATE W/MECH CONTRACTOR
SVF-1	1	120 V	INV1	7	3/4"C, 1#10, #10N, #10G	1.56	13 A	21 A	743	NON-FUSED	-	
SVF-2	1	120 V	INV1	8	3/4"C, 1#10, #10N, #10G	1.56	13 A	21 A	612	NON-FUSED	-	
SVF-3	1	120 V	INV1	6	3/4"C, 1#12, #12N, #12G	0.46	3.8 A	5 A	3,376	NON-FUSED	-	
WH-1	1	120 V	L1	9	3/4"C, 1#12, #12N, #12G	0.18	1.5 A	2 A	675	GFCI RECEPTACLE	-	
WH-2	1	120 V	L1	9	3/4"C, 1#12, #12N, #12G	0.18	1.5 A	2 A	675	GFCI RECEPTACLE	-	
WH-3	1	120 V	(E) PL3	9	3/4"C, 1#12, #12N, #12G	0.18	1.5 A	2 A	730	GFCI 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 COORDINATE LOCATION PRIOR TO POLICHER IN

## ONE-LINE DIAGRAM

SCALE : NOT TO SCALE

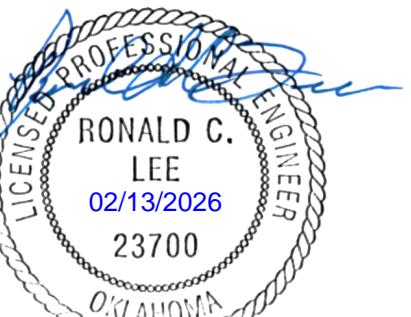
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## **REVISIONS**

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# ELECTRICAL ONE-LINE DIAGRAM & SCHEDULES

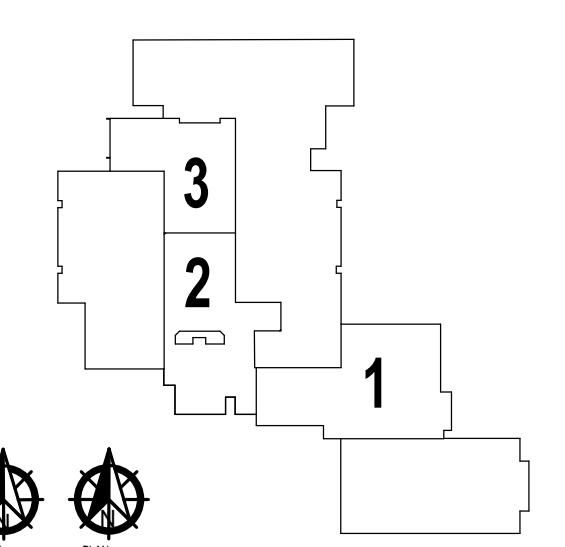
E002



## OWASSO 8th GRADE ADDITION

OWASSO PUBLIC SCHOOLS

OWASSO, OK 2025



### Branch Panel: (E)1P

Location: EXISTING ELEC EX  
Supply From: (E)MSB  
Mounting: SURFACE  
Enclosure: NEMA 1  
Notes:

Volts: 480Y/277  
Phases: 3  
Wires: 4  
Lugs: Standard  
Bus Amps: 110  
Bus Amps: 110

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	--	--	--	1	20 A	L - SPEED 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		3	20 A	RTU-5	20
21				3769	3546					22
23	RTU-4	20 A	3	3769	3546		1	20 A	EXISTING LOAD	24
25				3769	750					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	31043 VA	102.89%	31770 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. Total Conn. Total Est. Demand: 33 A

Total Est. Demand: 38 A

Total Load: 12450 VA Total Amps: 46 A

Total Conn. Total Conn. Total Est. Demand: 33 A

Total Est. Demand: 38 A

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Total Conn. Total Conn. Total Est. Demand: 33 A

Total Est. Demand: 38 A

Total Load: 12450 VA Total Amps: 46 A



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Lighting Control Schedule									
Room Number	Room Name	Lighting Control On	Lighting Control Off	Sensor Type	Sensor Timeout (min)	Dimming Percentage	Timeclock Integration	Timeclock Override	Remarks
<varies>	ART	MANUAL	MANUAL						
135	BLACKBOX	MANUAL	MANUAL						
<varies>	BOYS	OCCUPANCY	KEYED MANUAL	DUAL TECH	30				KEYED
130	BREAKOUT	MANUAL	MANUAL						
<varies>	CALM	MANUAL	MANUAL						
<varies>	CHEMICAL	MANUAL	MANUAL						
206	CHOIR	MANUAL	MANUAL						
101	COMMONS	MANUAL	MANUAL						
111	COOLER	MANUAL	MANUAL						
<varies>	CORRIDOR	MANUAL	MANUAL						
104	DISH WASH	MANUAL	MANUAL						
105	DRY STORAGE	MANUAL	MANUAL						
125	ELEC.	MANUAL	MANUAL						KEYED
131	ELECTRICAL	MANUAL	MANUAL						KEYED
112	FREEZER	OCCUPANCY	OCCUPANCY	DUAL TECH	15				
<varies>	GIRLS	OCCUPANCY	KEYED MANUAL	DUAL TECH	30				KEYED
119	INVERTER	MANUAL	MANUAL						
216	IT	MANUAL	MANUAL						
<varies>	JANITOR	MANUAL	MANUAL						
110	KITCHEN	MANUAL	MANUAL						
<varies>	OFFICE	MANUAL	MANUAL						
<varies>	PREP	MANUAL	MANUAL						
120-1	RAMP-1	MANUAL	MANUAL						
120-2	RAMP-2	MANUAL	MANUAL						
<varies>	SCIENCE	MANUAL	MANUAL						
<varies>	SPED	MANUAL	MANUAL						
<varies>	STG	MANUAL	MANUAL						
<varies>	STORAGE	MANUAL	MANUAL						
<varies>	TLT	MANUAL	MANUAL						

## LIGHTING CONTROL

1. SUBMITTING CONTROL SYSTEM

1. BASIS OF DESIGN: LINE VOLTAGE SWITCHES AND SENSORS. 0-10V DIMMING ONLY WHERE INDICATED. SUBSTITUTIONS ARE WELCOME. NO PRE-APPROVAL REQUIRED. ENGINEER WILL REVIEW ONE LIGHTING CONTROL SUBMITTAL PACKAGE DURING SUBMITTAL PHASE. IF SUBSTITUTIONS ARE DEEMED NOT EQUAL TO SPECIFIED CONTROL SYSTEM, CONTRACTOR SHALL PROVIDE SPECIFIED CONTROL SYSTEM. PROVIDE SHOP DRAWINGS OF DEVICE LAYOUT AS PART OF SUBMITTAL REVIEW.
  - A. SUBMITTING AGENT SHALL PROVIDE ALL REQUESTED COLOR SAMPLES, WORKING FIXTURE SAMPLES AND OR SENSOR CALCULATIONS WITHIN 10 DAYS IF REQUESTED FROM THE DESIGN TEAM.
  - B. THE DESIGN TEAM SHALL RESERVE THE RIGHT TO APPROVE OR REJECT ANY SUBSTITUTED FIXTURE BASED ON ANY OF THE FOLLOWING: AESTHETICS, PERFORMANCE, FEATURES, QUALITY, COST, AND LEAD TIMES.
2. LOCATE LOCAL CONTROL/POWER PACKS FOR EXTERIOR DEVICES ADJACENT TO THE PANEL THE DEVICES ARE FED FROM.
3. REFER TO EMERGENCY LIGHTING CONTROL DETAILS.

SPECIAL RECEPTACLE SCHEDULE						
SUBSCRIPT	NEMA	VOLTS	MANUFACTURER	MODEL	DESCRIPTION	GENERAL NOTES
EWC		<varies>			FEED THROUGH GFCI BREAKER IN PANEL.	COORDINATE LOCATION WITH EQUIPMENT AND MOUNT BEHIND EWC
SP		<varies>	-	-	SMART BOARD PROJECTOR	COORDINATE FINAL MOUNTING HEIGHT WITH ARCHITECT AND FINAL LOW VOLTAGE TERMINATIONS WITH OWNER

LIGHTING FIXTURE SCHEDULE										
CALL OUT	LIGHT SOURCE					DESCRIPTION	MOUNTING	MANUFACTURER	CATALOG NUMBER	GENERAL NOTES
	LUMENS	CCT	CRI	VA	VOLT					
A2	2000L	3500K	80CRI	30	277 V	2X2 LED BACKLIT FLAT PANEL	RECESSED	ESL	ESL-CSS-820-22-2030W-4000K	-
A4	5000L	3500K	80CRI	38	<varies>	2X4 BACKLIT FLAT PANEL	RECESSED	ESL	ESL-CSS-820-24-3050W-4000K	-
D	2000L	3500K	80CRI	20	277 V	DLIGHT	RECESSED	GOTHAM	EV04-40/20-AR-LSS-WD-MVOLT-GZ1	-
D2	1500L	4000K	80CRI	14	277 V	DLIGHT - SHOWER	RECESSED	GOTHAM	EV04SH-40/15-AR-LSS-WD-MVOLT-GZ1	-
DT	3100	3500K	80CRI	17	277 V	4DR TUNABLE RGBW DLIGHT	RECESSED	GOTHAM	4DR-TL-L31-RGB9-35-DMX-UNV-R-W-OF-CS-N-F1	-
E	-	-	-	0	277 V	EXISTING 2X4 LED TROFFER	RECESSED	-	-	EXISTING
EA	-	-	-	10		EMERGENCY LIGHT - 70' O.C. SPACING	WALL MOUNTED	MULE LIGHTING	MRDR-6-12 W SD LED	-
M	375L/FT	3500K	80CRI	57	277 V	3' LINEAR UTILITY STRIP, LENSED	SUSPENDED	LUX	EOS2.0-P-DI-LAM-375-XBT-375-12-35K-8-1-UNV-S1-B-HC-42-SF/SC	
N1	-	-	-	36	277 V	WALLPACK	WALL MOUNTED	MIMIK	M30-36-T3-BK-4K-UNV-0-10V	-
N2	-	-	-	30	277 V	WALLPACK	WALL MOUNTED	MIMIK	M30-36-T4-BK-4K-UNV-0-10V-REM	-
P	375L/FT	3500K	80CRI	57	<varies>	3' LINEAR UTILITY STRIP, LENSED	SUSPENDED	LUX	EOS2.0-P-DI-LAM-375-XBT-375-12-35K-8-1-UNV-S1-B-HC-42-SF/SC	
X1	-	-	-	5	277 V	SINGLE FACE EXIT SIGN	CEILING MOUNTED, RECESSED	EVENLITE	PCEL-1-B-RM-BA-U-SD	-
X2	-	-	-	5	277 V	DOUBLE FACE EXIT SIGN	CEILING MOUNTED, RECESSED	EVENLITE	PCEL-X2-B-RM-BA-U	-
XA	-	-	-	5	120 V	SINGLE FACE EXIT SIGN IN SHELTER	CEILING MOUNTED, RECESSED	EVENLITE	PCEL-1-B-RM-BA-U-SD	-

**LIGHTING FIXTURE NOTES**

1. SPECIFIED FIXTURES INDICATE DESIGN INTENT. SUBSTITUTIONS ARE WELCOME. NO PRE-APPROVAL REQUIRED. ENGINEER WILL REVIEW ONE LIGHTING SUBMITTAL PACKAGE DURING SUBMITTAL PHASE. IF SUBSTITUTIONS ARE DEEMED NOT EQUAL TO SPECIFIED FIXTURE, CONTRACTOR SHALL PROVIDE SPECIFIED FIXTURE.

2. SEE ARCHITECTURAL PLANS FOR ADDITIONAL LIGHTING INFORMATION - ELEVATIONS, CEILING HEIGHTS, CEILING TYPES, DETAILS, ETC.

2. SEE ARCHITECTURAL PLANS FOR ADDITIONAL LIGHTING INFORMATION - ELEVATIONS, CEILING HEIGHTS, CEILING FINISHES, DETAILS, ETC.

## Inverter: INV1

<b>Location:</b> INVERTER 119	<b>Volts:</b> 480V 1PH IN/120V OUT	<b>A.I.C. Rating:</b> 10,000 AMPS SYMMETRICAL
<b>Supply From:</b> 1AH	<b>Phases:</b> 1	<b>Mains Type:</b> MLO
<b>Mounting:</b> SURFACE	<b>Wires:</b> 2	<b>Bus Amps:</b> 100
<b>Enclosure:</b> NEMA 1	<b>Runtime:</b> 120 MINUTES	<b>MCB Rating:</b> MLO

ICC 500 RELAY PANEL				
RELAY	UNITS	AREA(S) CONTROLLED	CIRCUIT	CONTROL SCENARIO
1	SVF-1	COMMONS	INV1-7	B
2	SVF-2	COMMONS	INV1-8	B
3	SLV-1 & SLV-2	COMMONS	INV1-12	A
4	SVF-3	INVERTER 119	PF-50	C
5	--	--		--
6	--	--		--
7	--	--		--
8	--	--		--

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GENERAL NOTES:

1. BASIS OF DESIGN CONTROL PANEL IS HUBBELL CX.
2. COORDINATE ALL SETTINGS WITH ICC500 AND MECHANICAL CONTRACTOR PRIOR TO PROGRAMMING.
3. SEE PLANS FOR OVERRIDE SWITCHES. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO

3. SEE PLANS FOR OVERRIDE SWITCHES. COORDINATE FINAL LOCATION  
ROUGH-IN

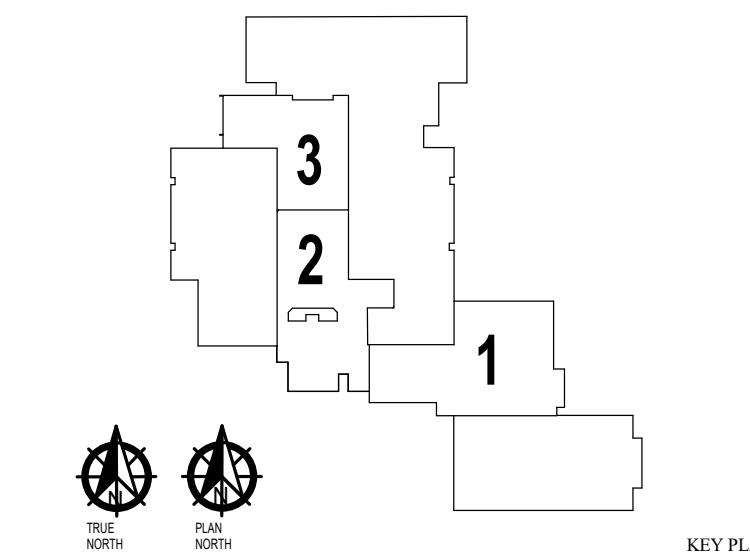
CONTROL SCENARIOS:

- A. ON/OFF VIA ICC500 OVERRIDE SWITCH
- B. ON/OFF VIA ICC500 OVERRIDE SWITCH, 5 SECOND DELAY
- C. ON/OFF VIA THERMOSTAT

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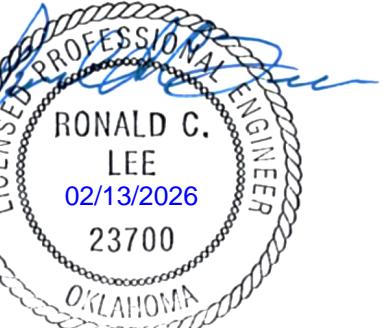
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# ELECTRICAL SCHEDULES

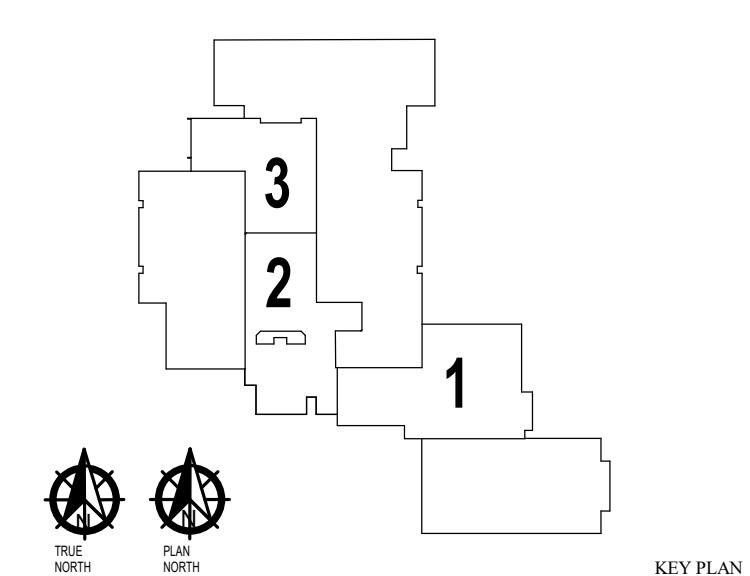
E004



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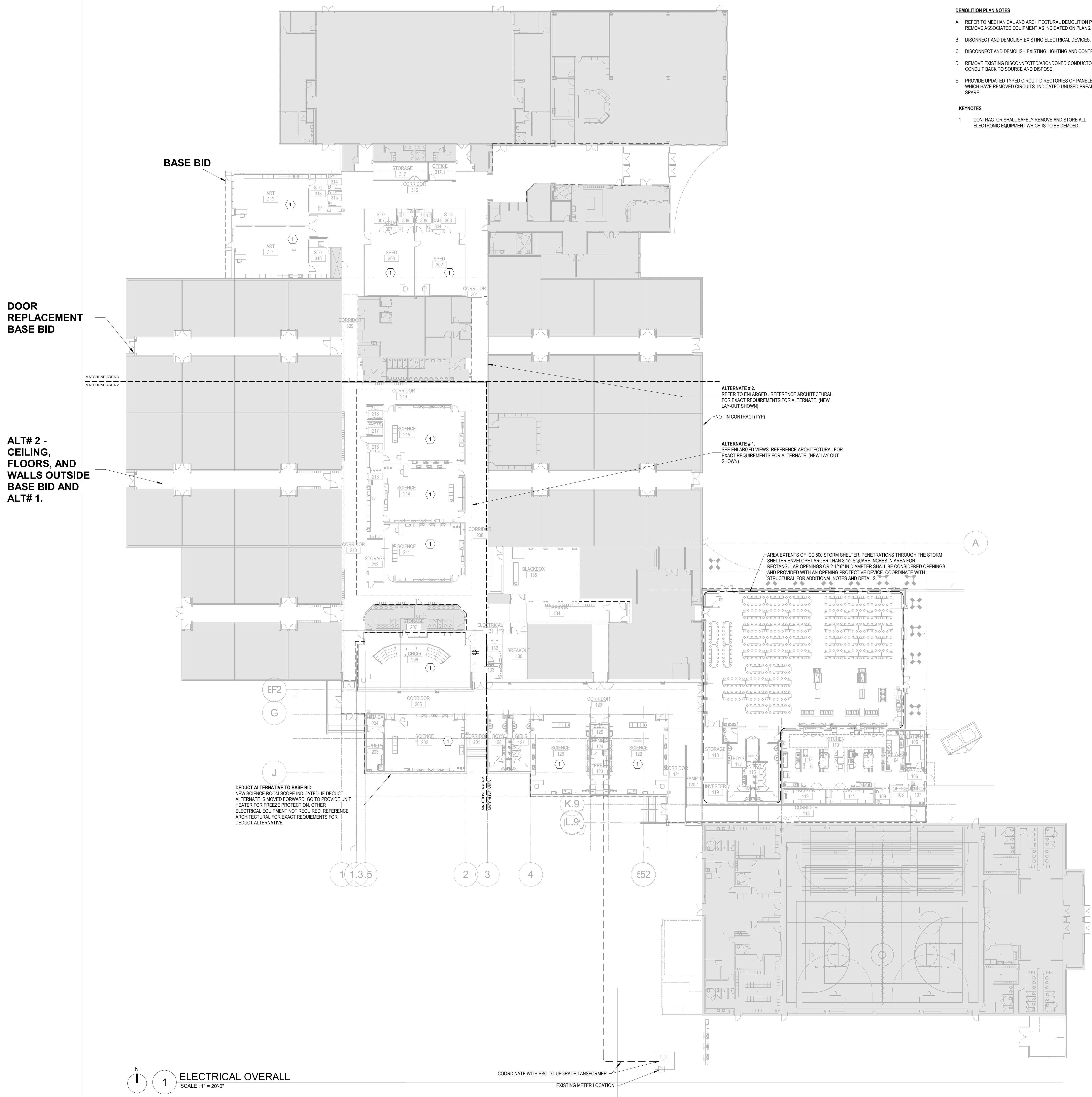
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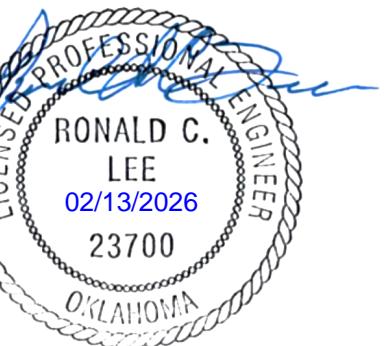
## FIRST FLOOR OVERALL REFERENCE PLAN

E100

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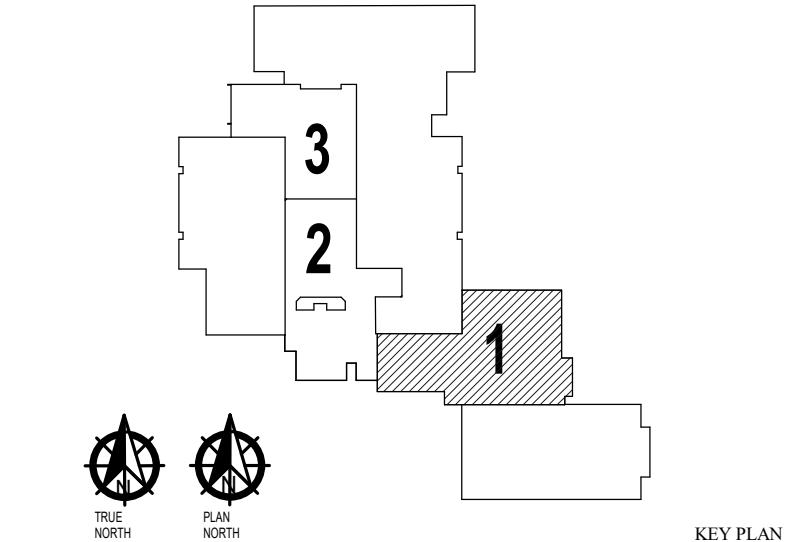
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### LIGHTING PLAN - AREA 1

E101

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**LIGHTING PLAN NOTES**

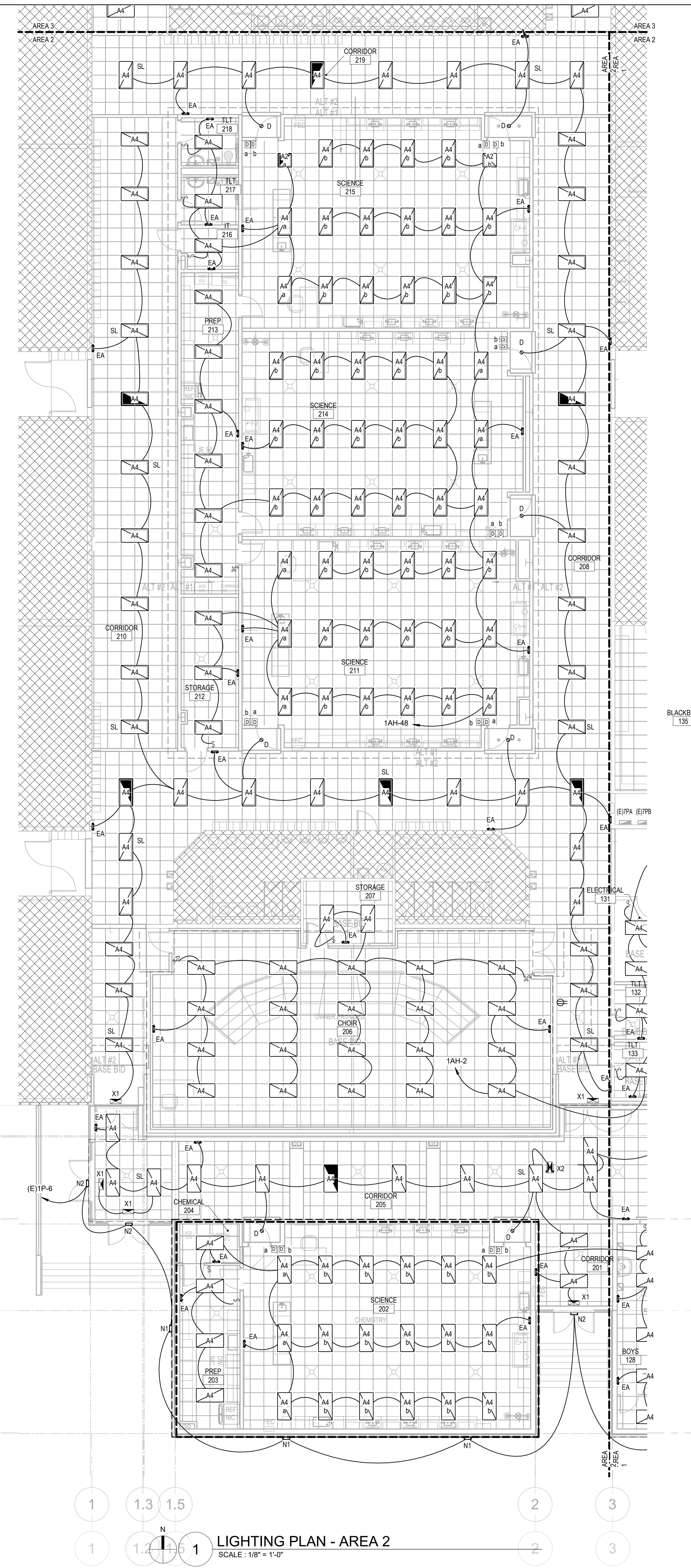
A. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6 LONG FLEXIBLE METAL CONDUIT.  
B. ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.  
C. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING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

**KEYNOTES**

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

AREA EXTENTS OF CC-500 STORM SHELTER PENETRATIONS  
THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 2-1/2  
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.





## **LIGHTING PLAN NOTE**

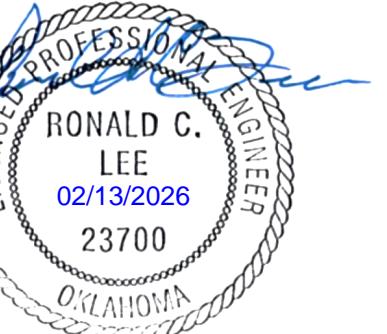
- A. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
- B. ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
- C. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING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

## **KEYNOTES**

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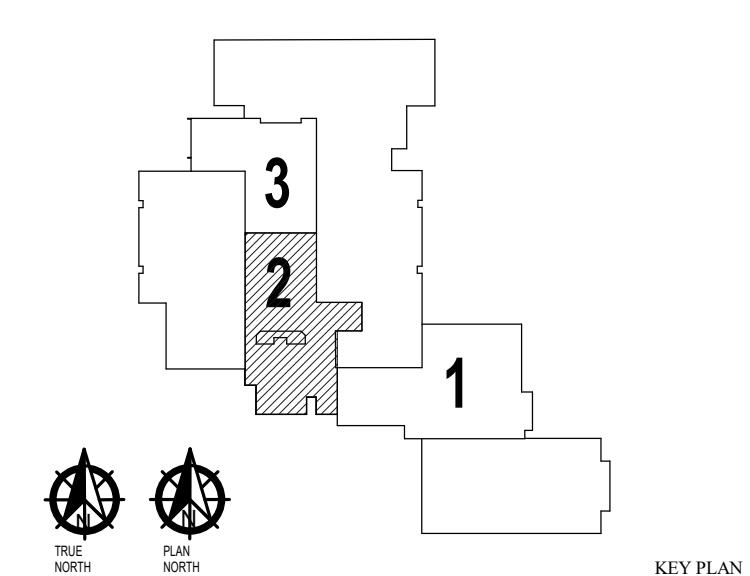
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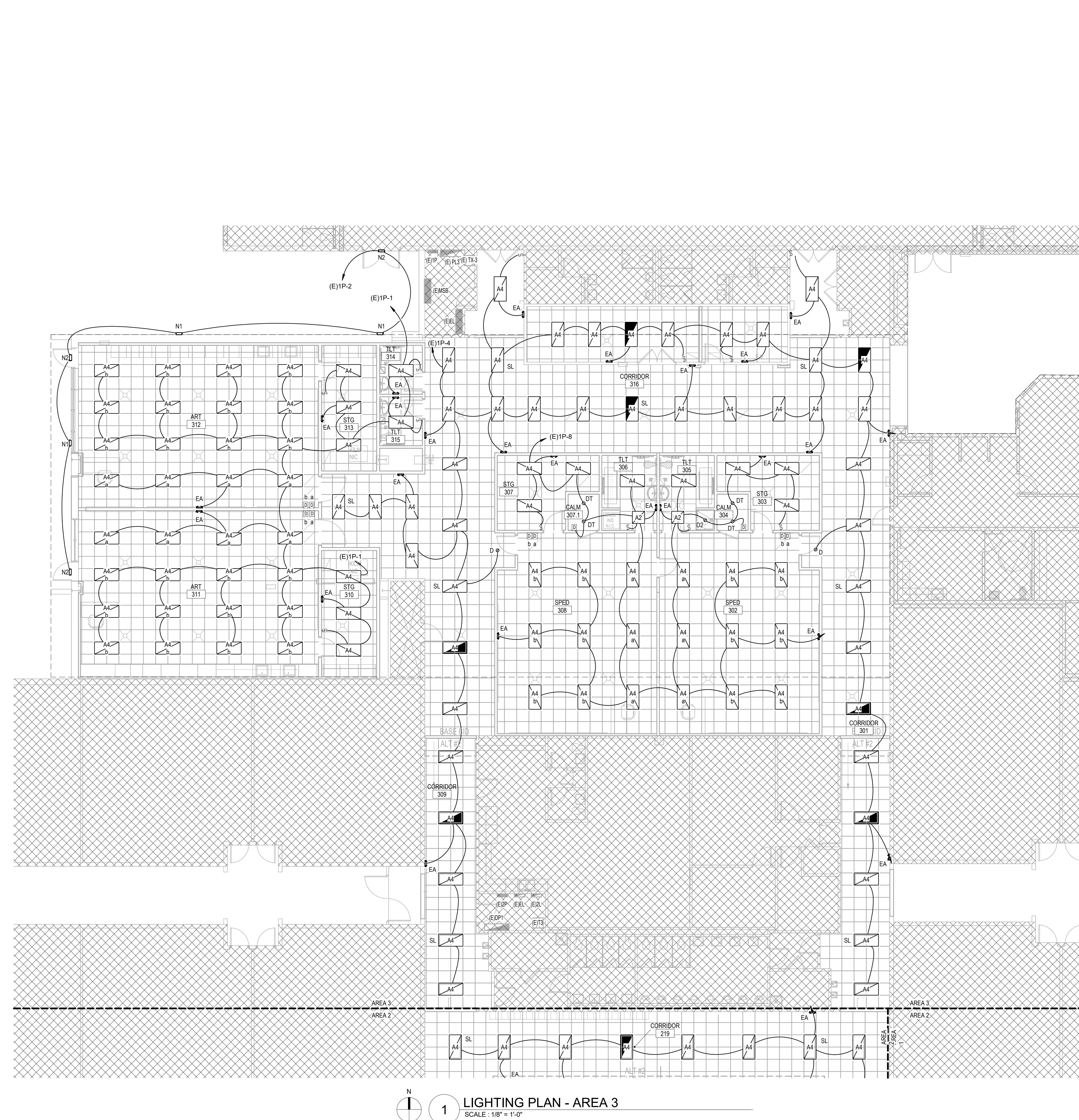
# LIGHTING PLAN - AREA 2

E102

## INTRODUCTION

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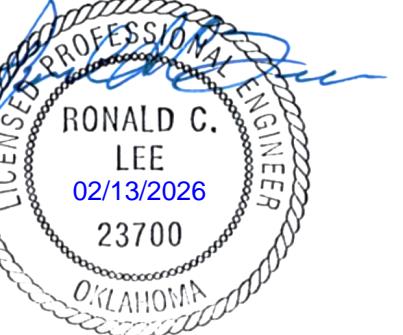
**LIGHTING PLAN NOTES**

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.

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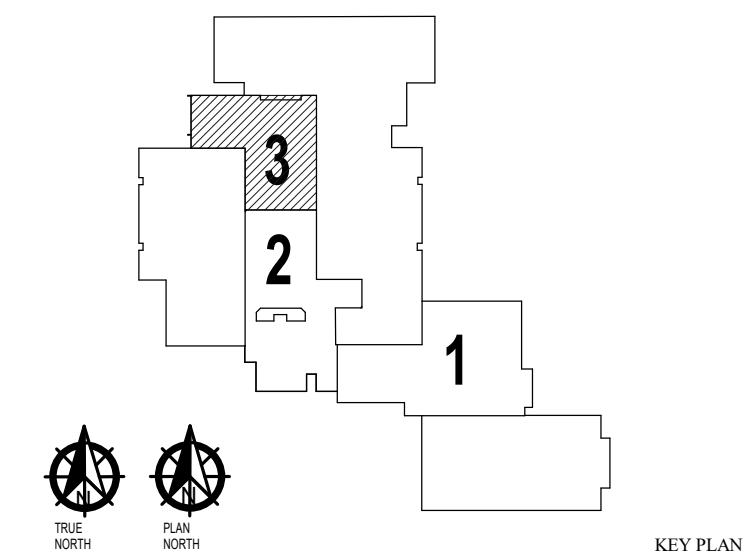
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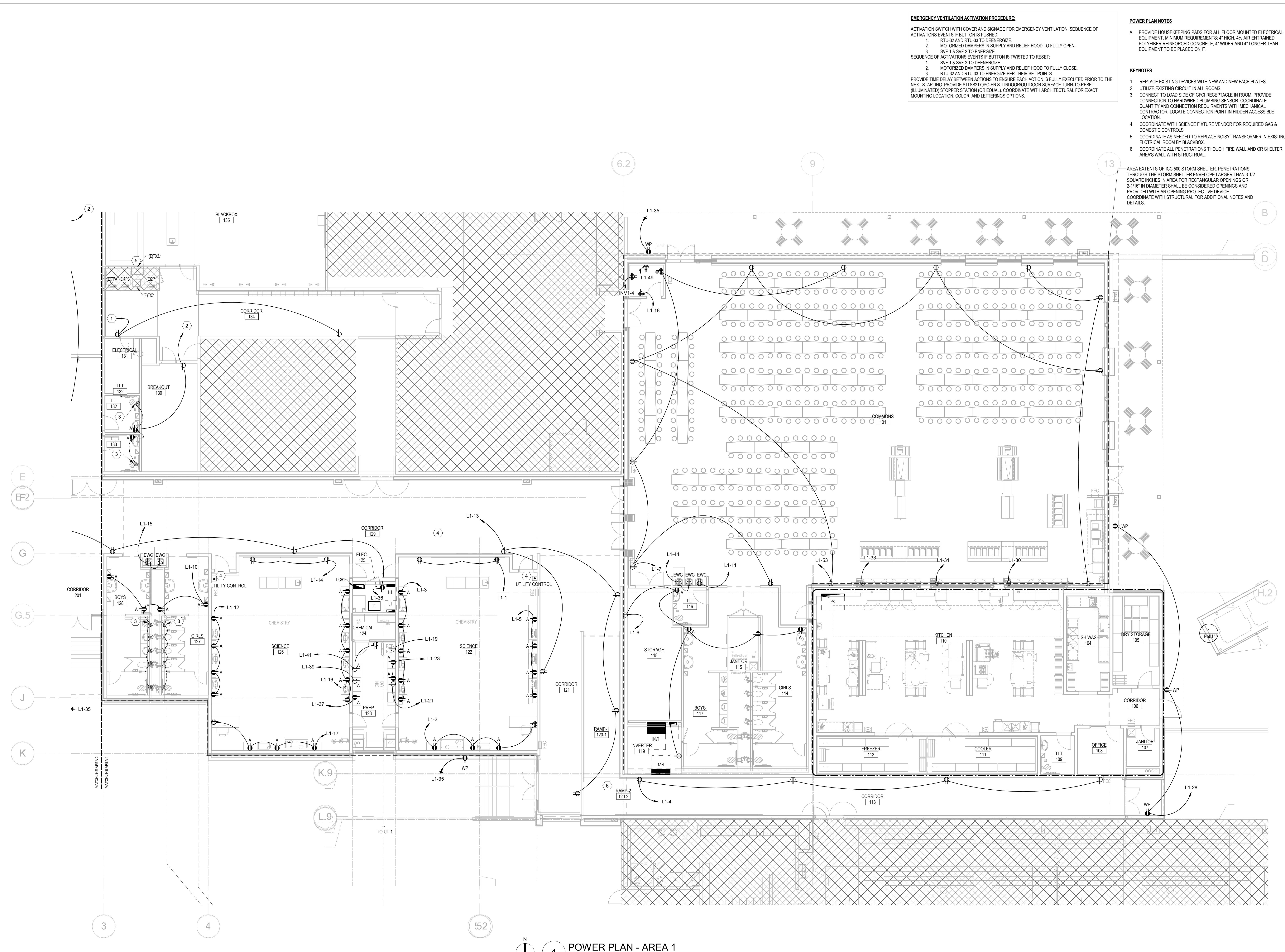
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## LIGHTING PLAN - AREA 3

E103

SHEET TITLE

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A circular professional engineer seal. The outer ring contains the text "PROFESSIONAL ENGINEER" at the top and "OKLAHOMA" at the bottom. The inner circle contains "RONALD C. LEE" at the top, "02/13/2026" in the center, and "23700" at the bottom. The seal is signed "Lee" in blue ink at the top right.

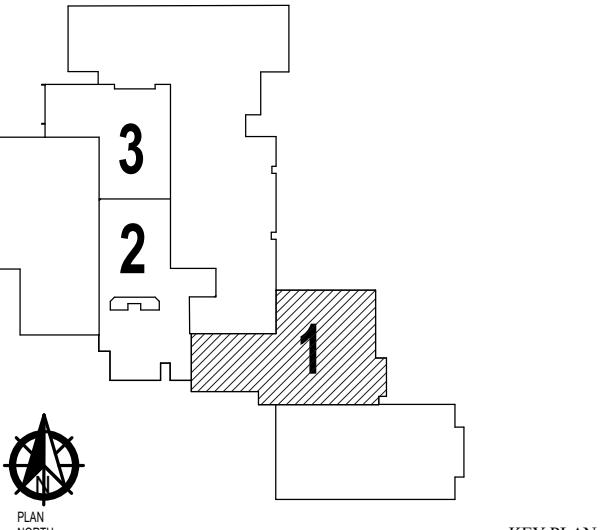
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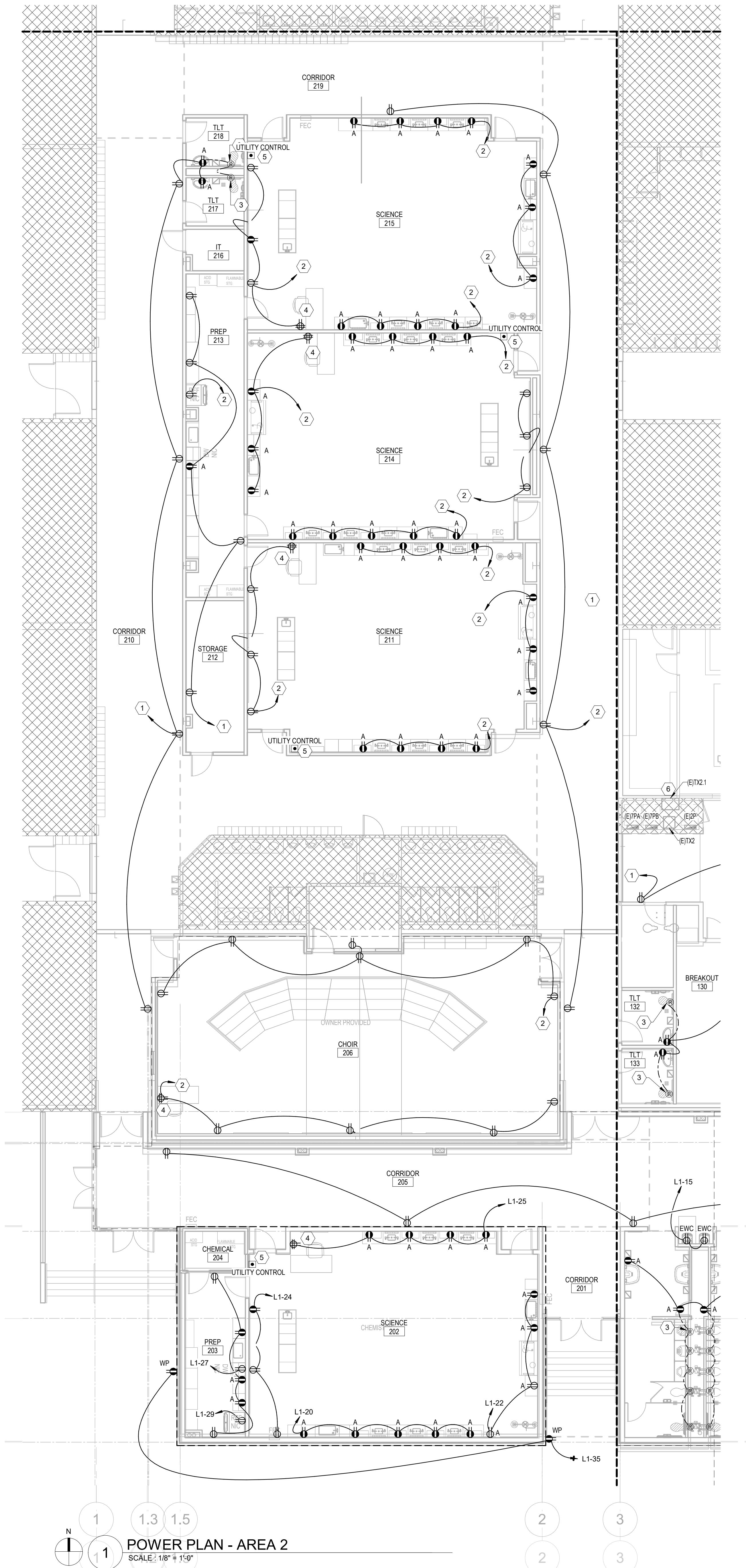
# POWER PLAN - AREA 1

—201

## TITLE

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**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.

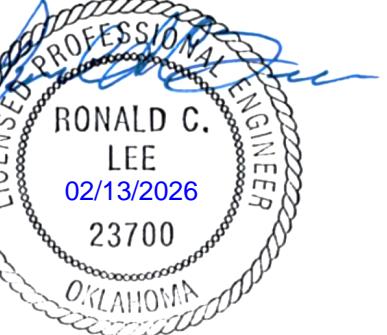
**KEYNOTES**

- 1 REPLACE EXISTING DEVICES WITH NEW AND NEW FACE PLATES.
- 2 UTILIZE EXISTING CIRCUIT IN ALL ROOMS.
- 3 CONNECT TO LOAD SIDE OF 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.
- 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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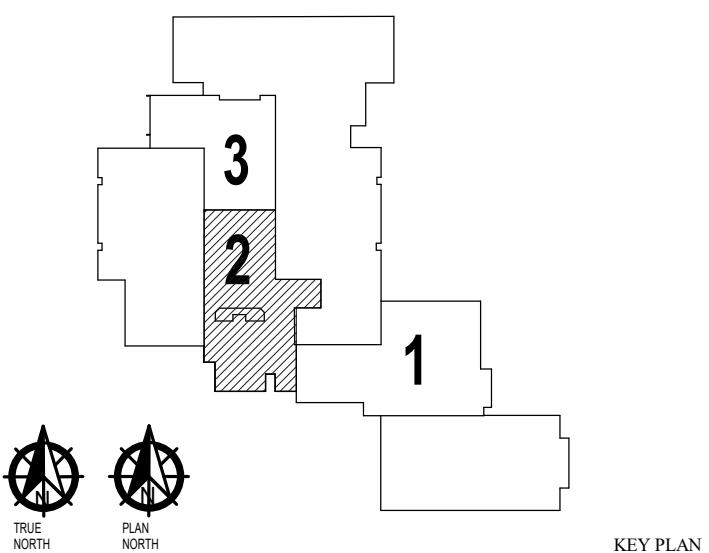


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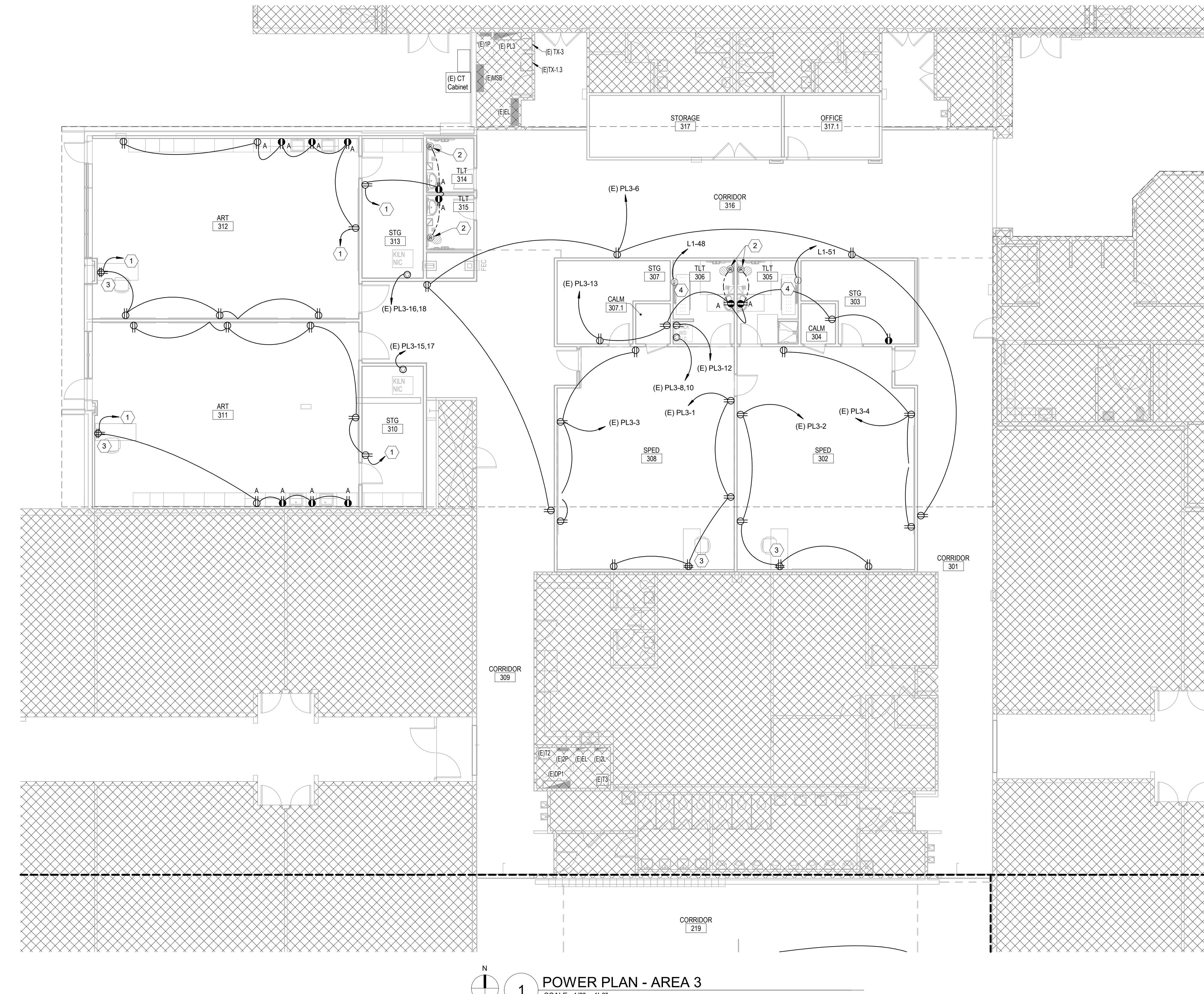
# POWER PLAN - AREA 2

# E202

**ARTICLE TITLE**

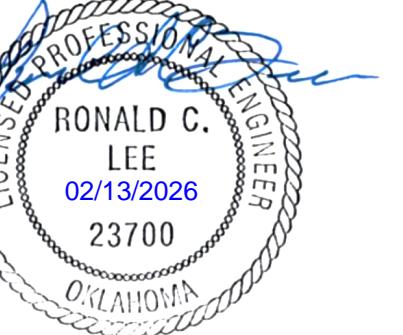
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**POWER PLAN NOTES**  
A. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT.  
**KEYNOTES**  
1. UTILIZE EXISTING CIRCUIT IN ALL ROOMS.  
2. 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.  
3. HDMI FROM PROJECTOR SHALL BE RUN TO DESK.  
4. PROVIDE 120V J-BOX CONNECTION FOR THE CHANGING STATION POWER. COORDINATE ALL POWER CONTROL AND EMERGENCY BUTTON CONNECTION REQUIREMENTS WITH EQUIPMENT PROVIDER.

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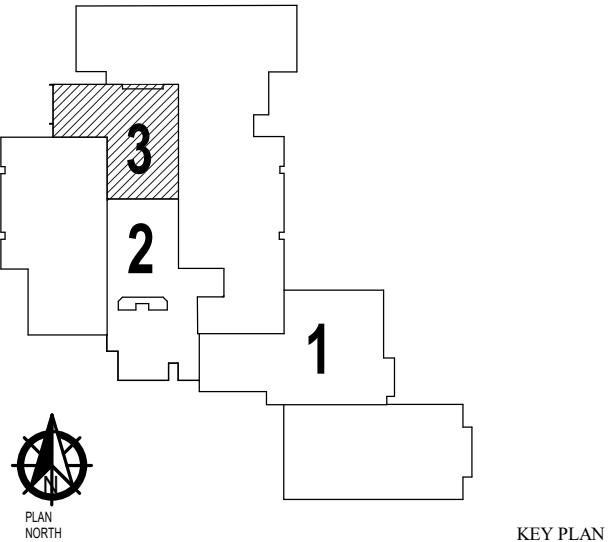


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POWER PLAN -  
AREA 3

E203

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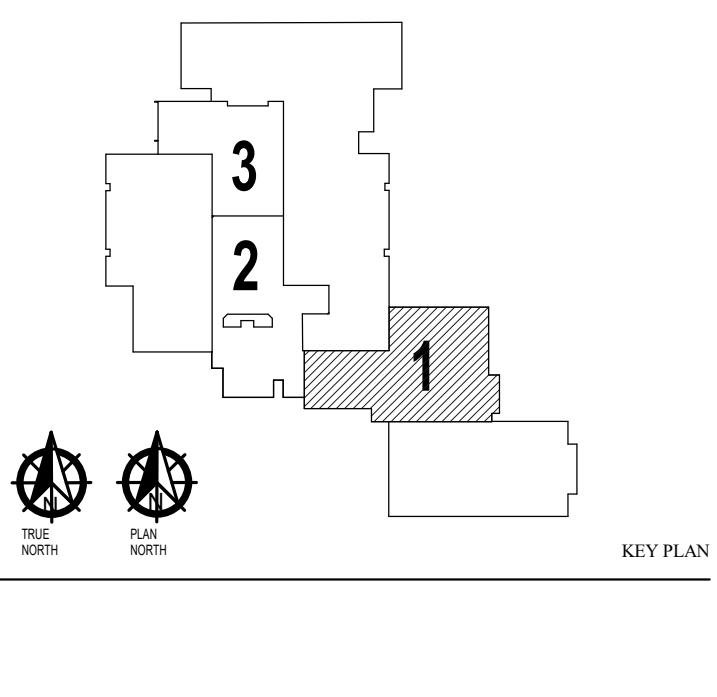
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### SYSTEMS PLAN - AREA 1

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

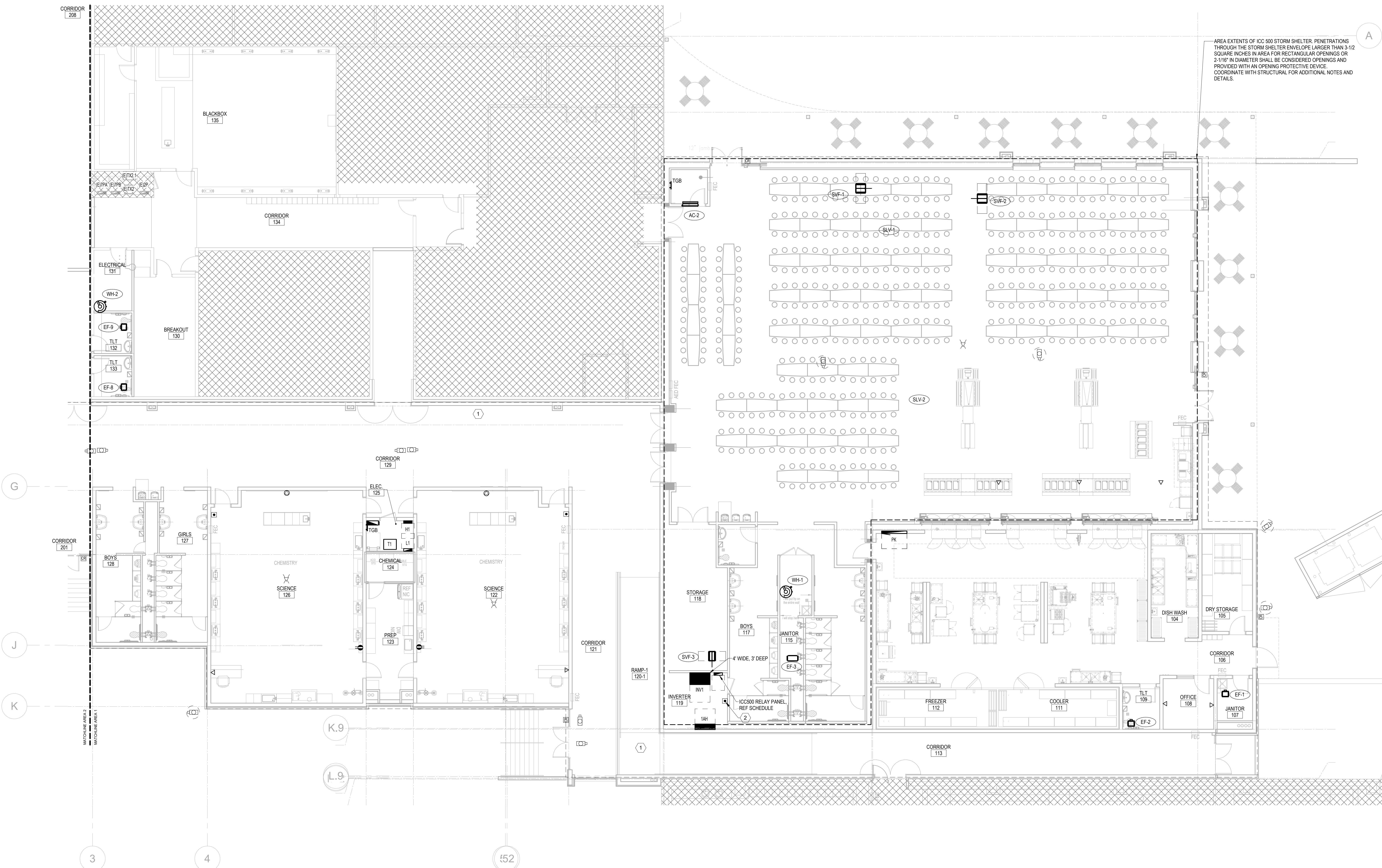
E301

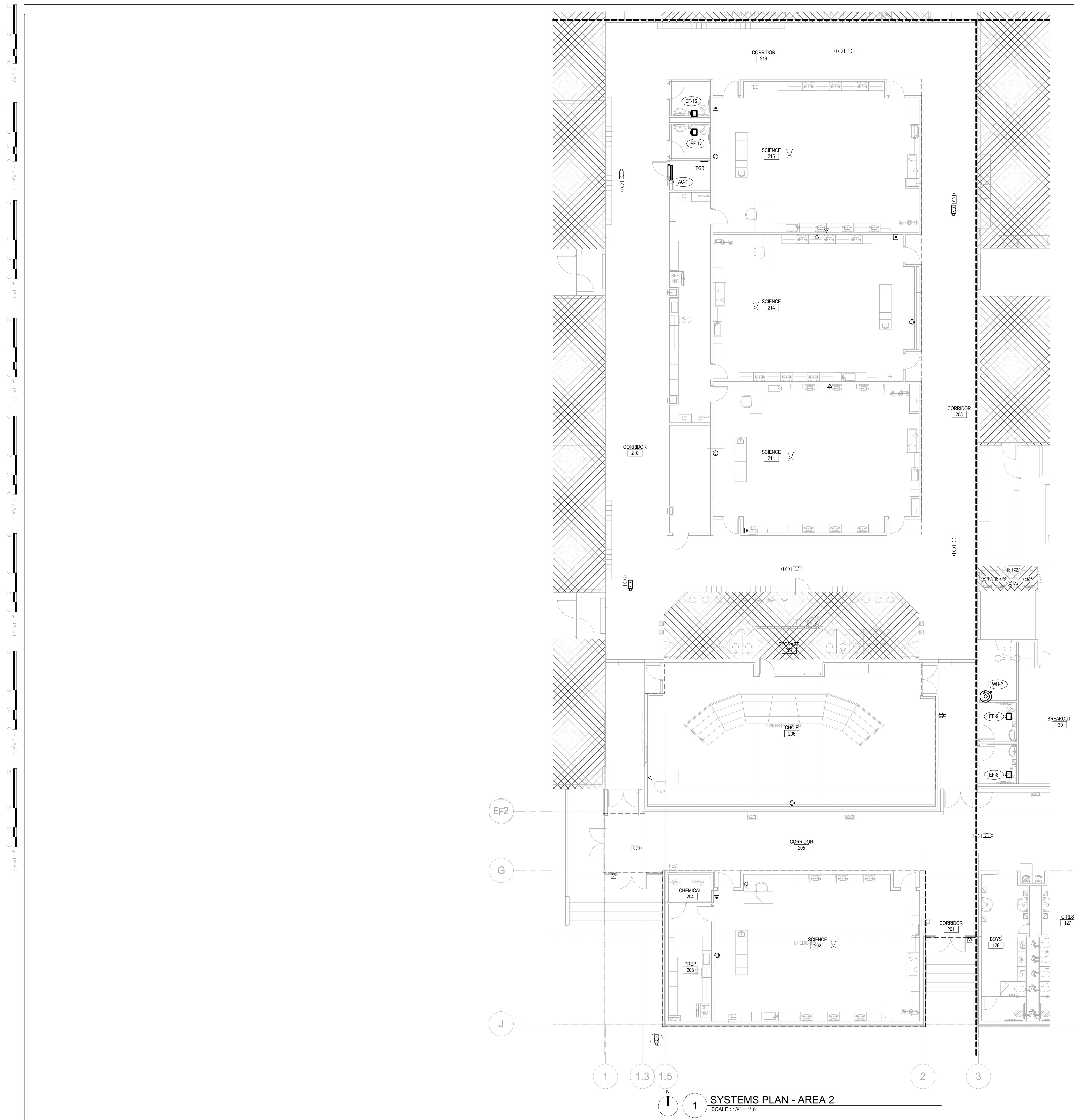
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**EMERGENCY VENTILATION ACTIVATION PROCEDURE:**  
ACTIVATION SWITCH WITH COVER AND SIGNAGE FOR EMERGENCY VENTILATION. SEQUENCE OF ACTIVATIONS EVENTS IF BUTTON IS PUSHED:  
1. RTU-32 AND RTU-33 TO DEENERGIZE  
2. MOTORIZED DAMPERS IN SUPPLY AND RELIEF HOOD TO FULLY OPEN.  
3. SVF-1 & SVF-2 TO DEENERGIZE  
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.  
RECOMMENDED: PROVIDE PER THEIR SET POINTS.  
PROVIDE TIME DELAY BETWEEN ACTIONS TO ENSURE EACH ACTION IS FULLY EXECUTED PRIOR TO THE NEXT STARTING. PROVIDE STI SS2179P-E-NST 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 THOUGH FIRE WALL AND OR SHELTER AREAS 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 MECHELEC CONNECTION, INCERTER, AND ICC 500 RELAY FOR ADDITIONAL INFORMATION. PROVIDE ALL CONTROL WIRING IN COLORED CONDUIT FOR IDENTIFICATION OF EMERGENCY DEVICES.



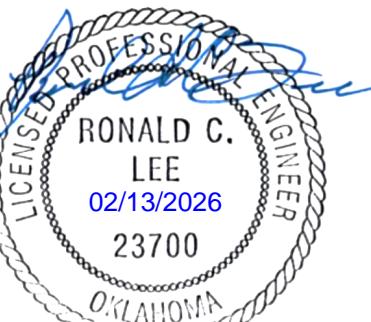


## **SYSTEM PLAN NOTES**

## KEYNOTES

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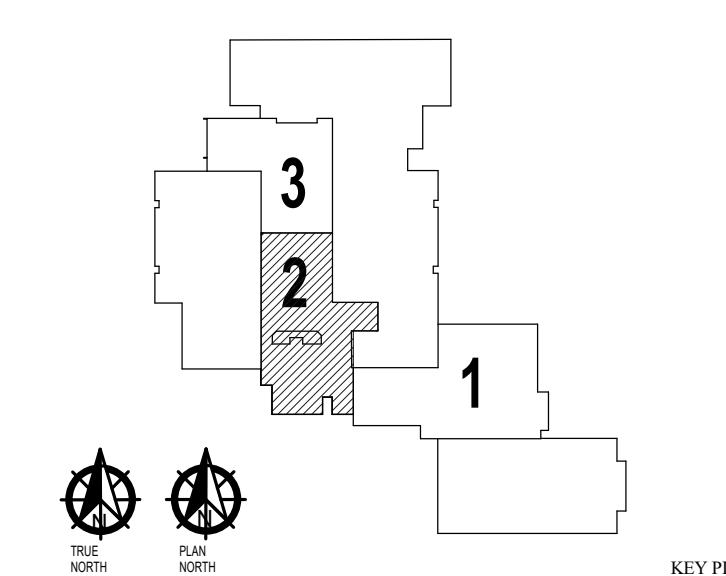


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# SYSTEMS PLAN - AREA 2

E302

SHEET TITL

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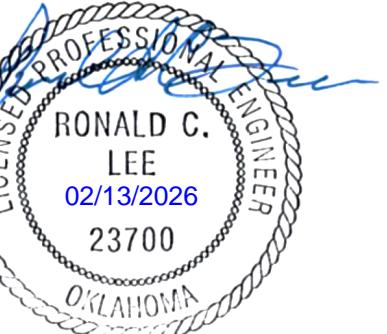


SYSTEM PLAN NOTES  
A. REFER TO MECHANICAL CONNECTION REQUIREMENTS  
B. REFER TO POWER PLAN FOR MOUNTING HEIGHT ELEVATIONS OF  
SHARED DEVICES

KEYNOTES

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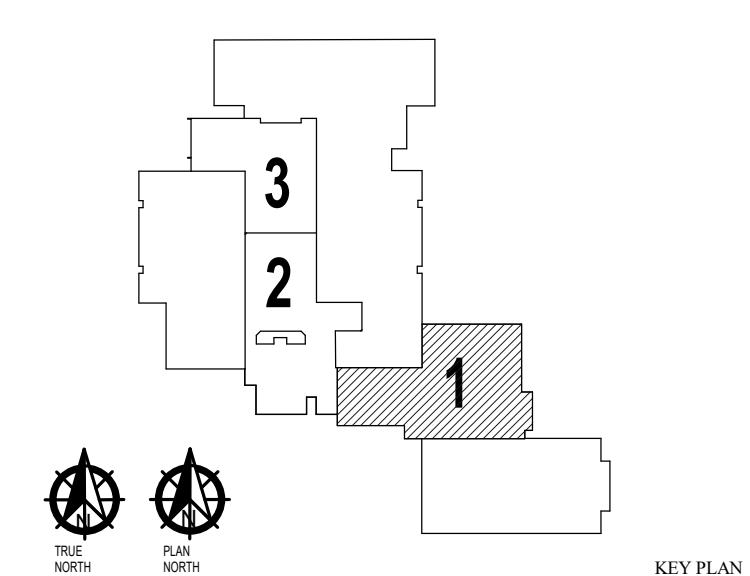
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## OWASSO 8th GRADE ADDITION

OWASSO PUBLIC  
SCHOOLS  
OWASSO, OK  
2025

PROJECT



KEY PLAN

11.25.2025

ISSUE DATE

2007  
DRAWN BY  
RL  
CHKD BY

### ELECTRICAL ROOF PLAN - AREA 1

E401

SHEET TITLE

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

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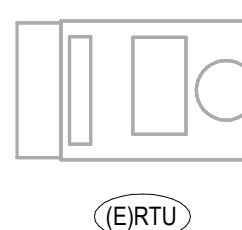
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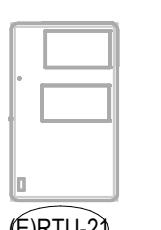
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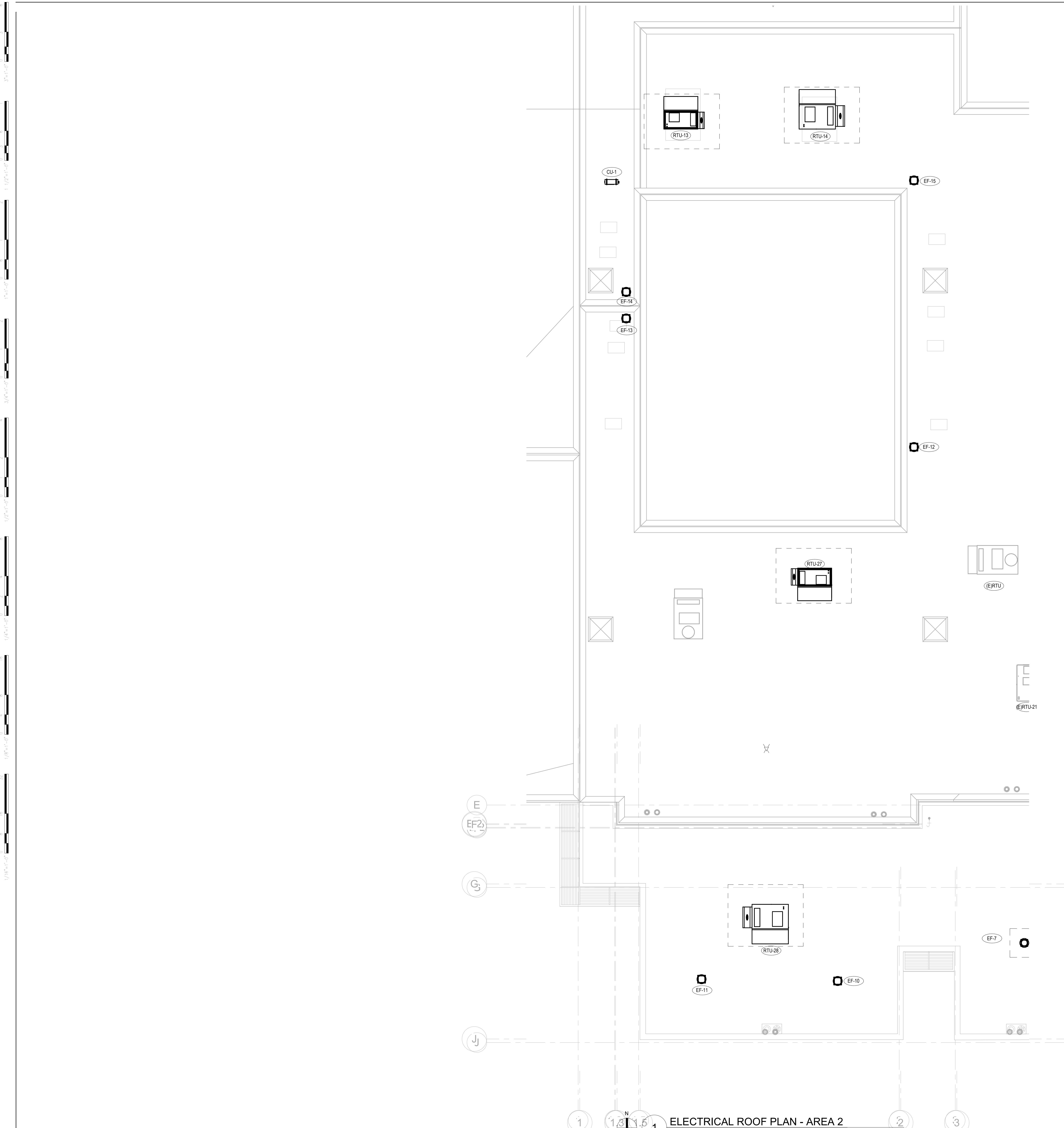
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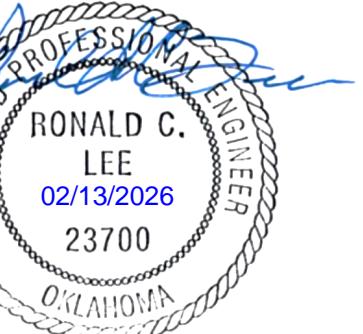
## **SYSTEM PLAN NOTES**

## **KEYNOTES**

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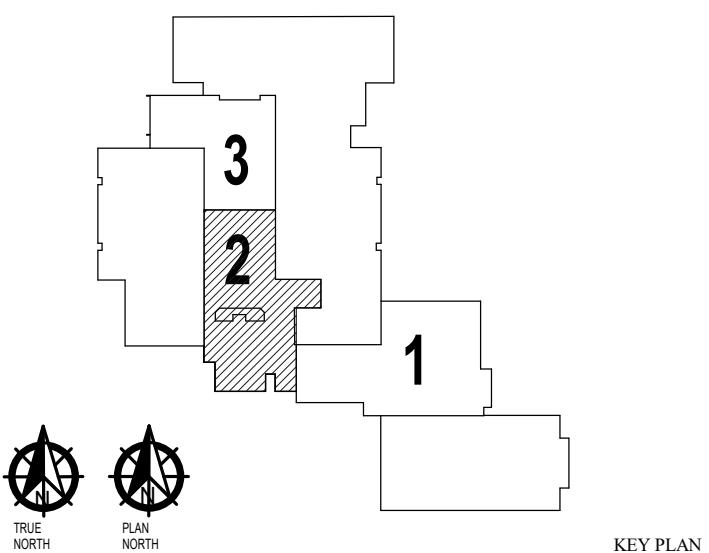
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# OWASSO 8th GRADE ADDITION

# OWASSO PUBLIC SCHOOLS

## OWASSO, OK 2025



11.25.2025

ISSUE DATE

# ELECTRICAL ROOF PLAN - AREA 2

# E402

TITLE

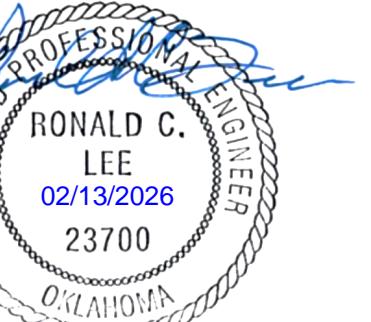
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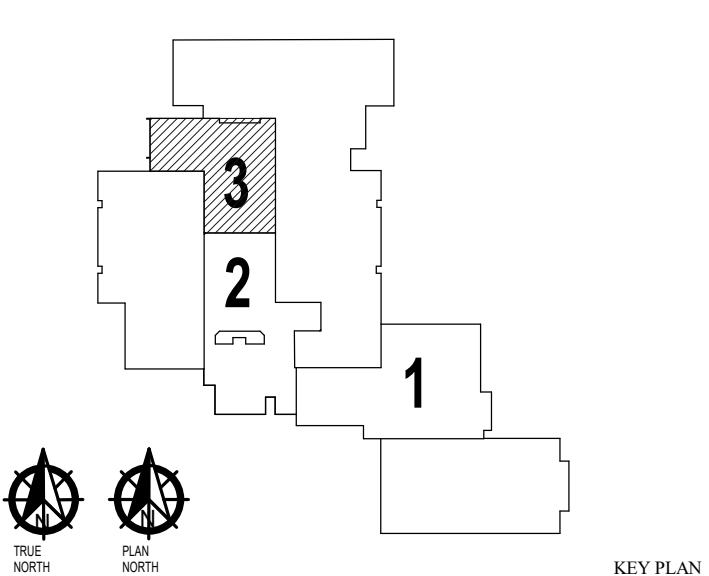
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## OWASSO 8th GRADE ADDITION

OWASSO PUBLIC  
SCHOOLS  
OWASSO, OK  
2025

PROJECT



KEY PLAN

REVISIONS

11.25.2025

ISSUE DATE

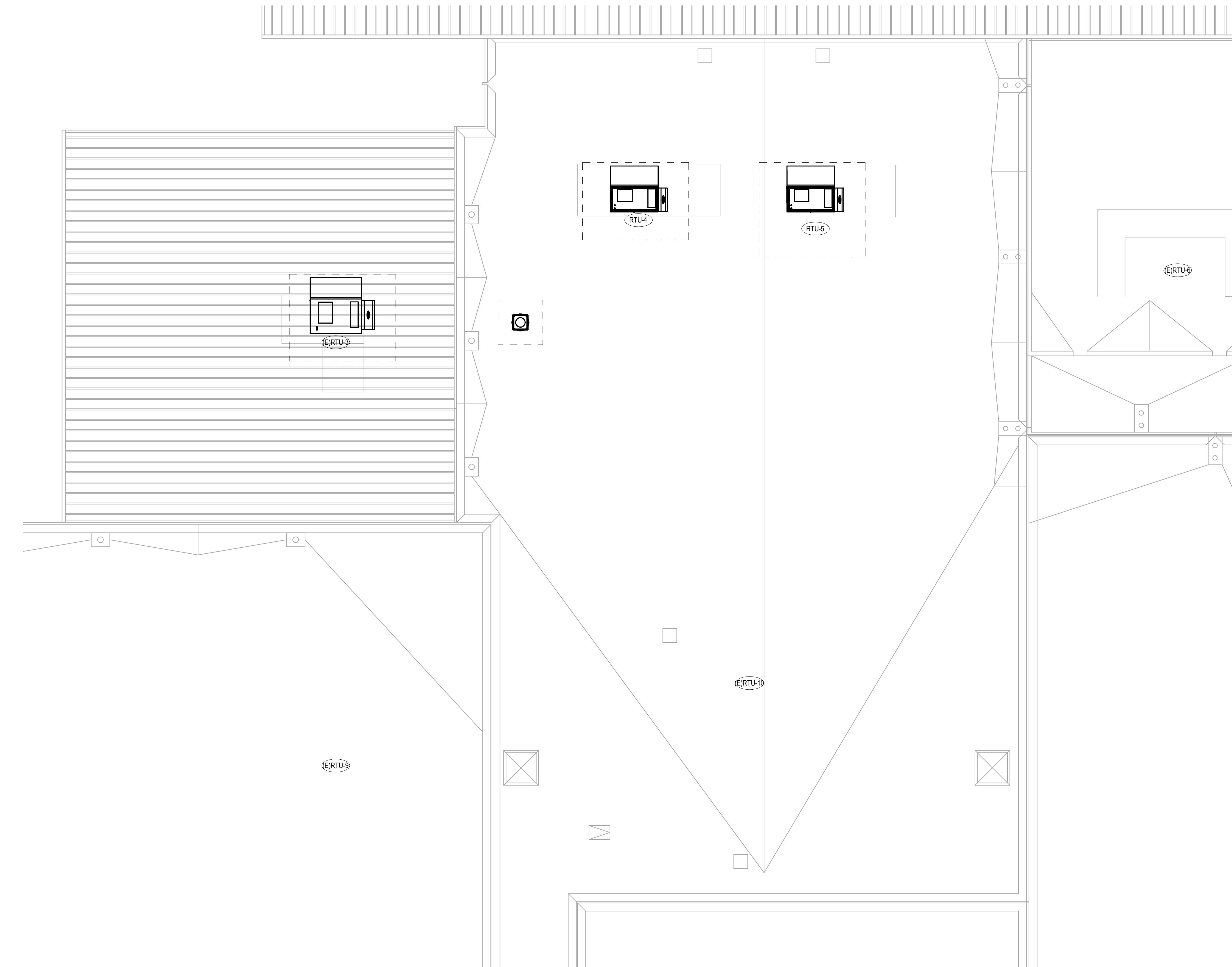
2007  
PRODUCT NO. 2  
DRAWN BY  
RL  
CHKD BY

### ELECTRICAL ROOF PLAN - AREA 3

E403

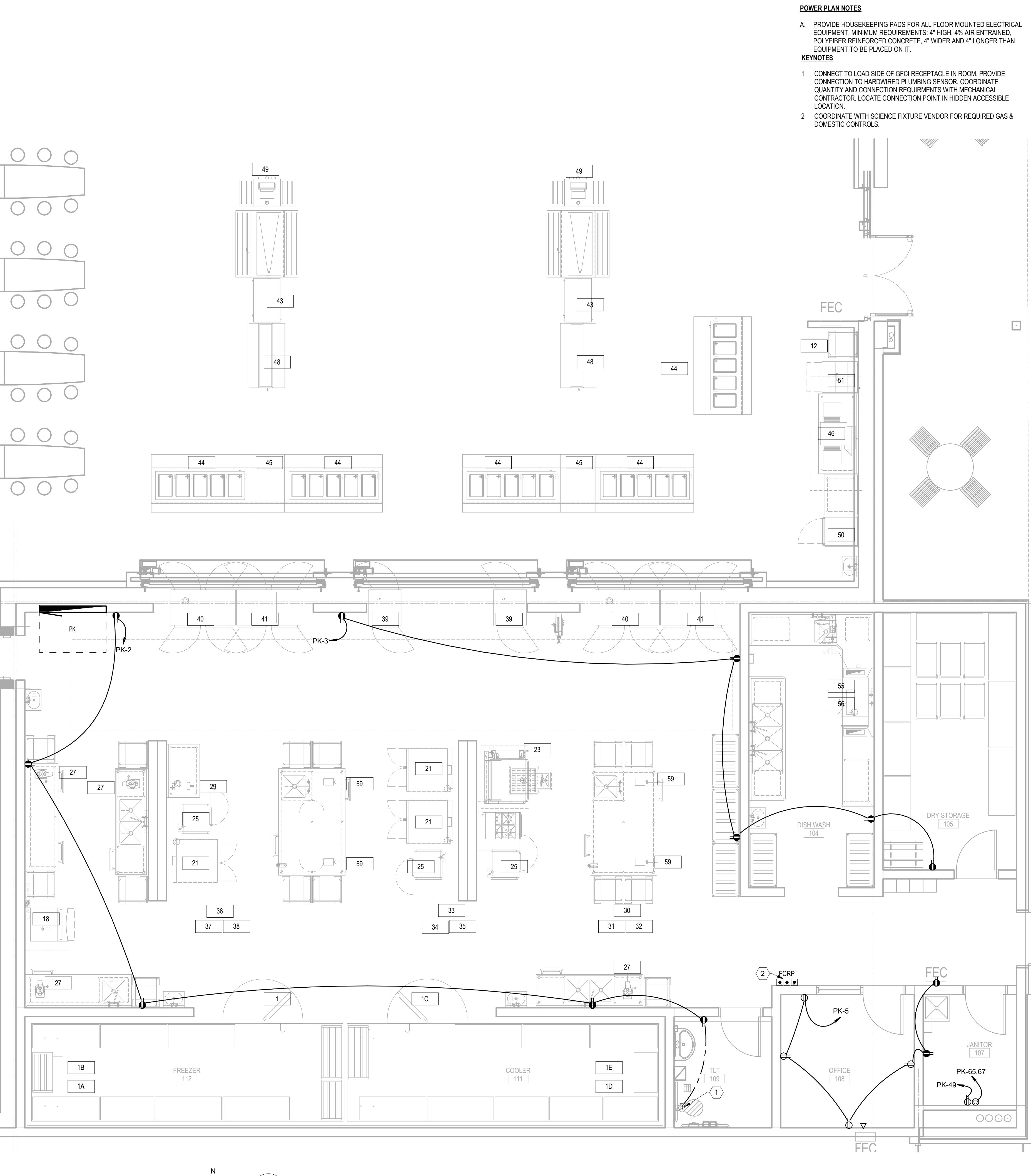
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N  
1 ELECTRICAL ROOF PLAN - AREA 3  
SCALE: 1/8" = 1'-0"

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



**POWER PLAN NOTES**

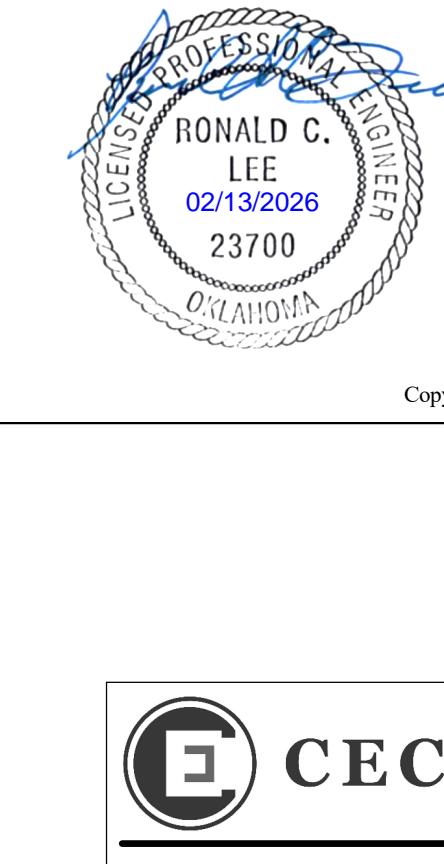
A. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT.

**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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