LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL	VOLTAGE	VA/WATTS	COMMENTS
A	2x2 LED TROFFER	HE WILLIAMS	LT-22-L39-835-(L29)-DIM-UNV	277 V	29 VA	
AE	2x2 LED TROFFER, EMERGENCY BATTERY PACK	HE WILLIAMS	LT-22-L39-835-(L29)-DIM-UNV-EM/10W	277 V	29 VA	
B	2x2 LED TROFFER	HE WILLIAMS	LT-22-L39-835-DIM-UNV	277 V	33 VA	
BE	2x2 LED TROFFER, EMERGENCY BATTERY PACK	HE WILLIAMS	LT-22-L39-835-DIM-UNV-EM/10W	277 V	33 VA	
C	2x2 LED TROFFER	HE WILLIAMS	LT-22-L49-835-(L44)-DIM-UNV	277 V	36 VA	
CE	2x2 LED TROFFER, EMERGENCY BATTERY PACK	HE WILLIAMS	LT-22-L49-835-(L44)-DIM-UNV-EM/10W	277 V	39 VA	
DE	4' LINEAR LED STRIP LIGHT, REMOTE EMERGENCY BATTERY PACK	BEGHELLI	BS101LED-4-HT-LO-WT40-120-277	277 V	60 VA	
L1	4' LINEAR LED STRIP LIGHT	HE WILLIAMS	75R-4-L50/835-QS-DIM-UNV	277 V	33 VA	
L1E	4' LINEAR LED STRIP LIGHT, EMERGENCY BATTERY PACK	HE WILLIAMS	75R-4-L50/835-QS-DIM-UNV	277 V	33 VA	
SL1	SITE LIGHTING LED WALL MOUNTED, MOUNTED 25' FEET HIGH	GE CURRENT	EALS-04-05-C4-AH-7-40-N-D-D1-BLCK	480 V	47 VA	
SL2	SITE LIGHTING LED POLE MOUNTED, MOUNTED 25' FEET HIGH	GE CURRENT	EALS-04-05-C4-AH-7-40-N-D-D1-BLCK	480 V	47 VA	
SL3	SITE LIGHTING LED POLE & WALL MOUNTED, MOUNTED 25' FEET HIGH, SHIELD	GE CURRENT	ERL1-05-10-C7-40-J-BLCK (ELSHS-ERL1-BLCK)	480 V	73 VA	
SL4	SITE LIGHTING LED WALL MOUNTED, MOUNTED 15' FEET HIGH, SHIELD	GE CURRENT	EALS-04-05-C4-AH-7-40-N-D-D1-BLCK (ELS-EAL-RF4-BLCK)	480 V	47 VA	
X1	LED EXIT SIGN - CEILING MOUNTED	HE WILLIAMS	VA-R/G-SA	277 V	6 VA	
XW1	LED EXIT SIGN - WALL MOUNTED	BEGHELLI	OL2-SA-LG/LR-1/2	277 V	8 VA	

FIXTURE SCHEDULE NOTES:

1. FIXTURE SCHEDULE IS PROVIDED TO ESTABLISH A LEVEL OF QUALITY AND SET THE BASIS OF DESIGN FOR THIS PROJECT. ALTERNATE PACKAGES OF EQUAL OR GREATER QUALITY WILL BE ACCEPTED ONLY FROM SESCO, FLORIDA LIGHTING ASSOCIATES AND LIGHTING PARTNERS OF CENTRAL FLORIDA. NO OTHERS WILL BE CONSIDERED FOR THIS PROJECT.
2. SUBMIT CATALOG CUT SHEETS FOR APPROVAL PRIOR TO ORDERING LIGHTING FIXTURES. SUBMIT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING BIDS. SUBMISSIONS OF SHOP DRAWINGS TO THE ENGINEER/ARCHITECT THAT DO NOT MEET THE ABOVE REQUIREMENTS WILL NOT BE APPROVED.
3. EMERGENCY BATTERIES SHALL BE MANUFACTURED BY BODINE, AND OR APPROVED EQUALS AND SHALL BE FACTORY INSTALLED. PROVIDE WITH AN UNCONDITIONAL NON-PRORATED 5 YEAR WARRANTY.
4. CONTRACTOR SHALL COORDINATE AND ADJUST ALL ADJUSTABLE LUMEN OUTPUT AND COLOR TEMPERATURE SETTINGS WITH OWNER PRIOR TO PROJECT COMPLETION.
5. PROVIDE WITH 32' OVERALL DIRECT BURIED TAPERED PRESTRESSED CONCRETE POLE, INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS. PROVIDED POLE MINIMUM EPA LOADING SHALL EXCEED THE FIXTURE AND MOUNTING ARM COMBINED EPA PER THE LOCAL WIND REQUIREMENTS OF 150MPH, 3 SECOND GUST, EXPOSURE B PER THE FLORIDA BUILDING CODE. SUBMIT WRITTEN SIGNED AND SEALED DOCUMENTATION INDICATING COMPLIANCE.
6. PROVIDE POLE MOUNTED SITE LIGHTING WITH INTEGRAL WIRELESS CONTROLS REQUIRED TO MEET FBC C405.2.7 FOR EXTERIOR POWER REDUCTION REQUIREMENTS.

ELECTRICAL NOTES

MATERIALS AND METHODS

1. ALL WIRE SHALL BE COPPER TYPE "THHN/THWN," SOLID FOR SIZES #10 AND #12, AND STRANDED FOR #8 AND LARGER UNLESS OTHERWISE NOTED.
2. MINIMUM WIRE SIZE SHALL BE #12 AWG. FOR BRANCH CIRCUITS OVER 100' MINIMUM HOMERUN TO PANEL SHALL BE #10 AWG.
3. ALL WIRE SHALL BE INSTALLED IN CONDUIT, UNLESS OTHERWISE NOTED. MINIMUM HOMERUN SIZE SHALL BE 3/4". 1/2" CONDUIT MAY BE USED BETWEEN DEVICES. ALL CONDUIT SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING WALLS AND FLOORS. MINIMUM U.G. CONDUIT HOMERUN SHALL BE 3/4". MC CABLE MAY BE USED PER THE NEC, WHERE CONCEALED.
4. ALL CONDUITS INSTALLED IN DRY INTERIOR LOCATIONS SHALL BE ELECTRICAL METALLIC TUBING, UNLESS OTHERWISE NOTED.
5. ALL CONDUITS INSTALLED IN EXTERIOR LOCATIONS SHALL BE RIGID SCH.80 PVC. ALL CONDUITS INSTALLED UNDERGROUND SHALL BE RIGID SCH.40 PVC. BURIED PER NEC.
   ALL EXTERIOR EQUIPMENT SHALL BE CONNECTED WITH LIQUID TIGHT FLEXIBLE METAL CONDUIT AND WEATHERPROOF FITTINGS.
6. INSTALL ALL RACEWAYS, BOXES, ENCLOSURES, AND CABINETS AS INDICATED AND INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
7. OUTLET AND SWITCH BOXES SHALL BE STEEL IN DRY LOCATIONS AND CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND OR OF SPECIAL CONSTRUCTION TO SUIT SPECIFIC SITUATIONS. ALL BOXES SHALL BE RECESSED FLUSH IN WALLS AND/OR CONCEALED ABOVE CEILINGS. PROVIDE ACCESS PANELS FOR BOXES LOCATED IN NON-READILY ACCESSIBLE AREAS.
8. INSTALL COMPONENTS AND EQUIPMENT TO PROVIDE MAXIMUM POSSIBLE HEADROOM WHERE MOUNTING HEIGHTS OR OTHER LOCATION CRITERIA ARE NOT INDICATED. MAINTAIN ALL WORKING CLEARANCES AROUND EQUIPMENT AS REQUIRED BY THE N.E.C. INSTALLED PANELBOARDS WITH TOP OF TRIM AT 6'-6" ABOVE FINISHED FLOOR.
9. ALL BRANCH AND FEEDER CIRCUITS SHALL CONTAIN A GROUNDING CONDUCTOR, UNLESS OTHERWISE NOTED, AND BE SIZED AND BONDED IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRIC CODE. ALL GROUNDING CONDUCTORS SHALL BE COPPER, U.O.N.
10. ALL PANELBOARDS, DISCONNECT SWITCHES AND SYSTEM PANELS SHALL BE SQUARE D, GE OR EQUAL AND HAVE PLASTIC LAMINATE NAMEPLATES FOR IDENTIFYING SYSTEM FUNCTION AND CHARACTERISTICS.
11. FIRE SEAL ALL CONDUIT PENETRATIONS IN FIRE RATED WALLS AND FLOORS BACK TO INITIAL RATING. FLASH ALL CONDUIT ROOF PENETRATIONS AS REQUIRED TO PROVIDE WEATHERPROOF SEALS. COORDINATE WITH OTHER TRADES AND ROOFING CONTRACTOR. ALL PENETRATIONS IN FIRE RATED ASSEMBLIES SHALL BE PROTECTED BY APPROVED FIRE STOPPING SYSTEM IN ACCORDANCE TO SECTION 713 OF THE FBCB.
12. ALL WIRING DEVICES SHALL BE COMMERCIAL GRADE AND MANUFACTURED BY LEVITON, P&S OR HUBBELL. ALL DEVICES INSTALLED IN FINISHED AREAS SHALL BE WHITE WITH MATCHING NON-METALLIC FACEPLATES. FIELD VERIFY ACTUAL COLOR PRIOR TO ORDERING WITH OWNER OR TENANT. SWITCH AND OUTLET BOXES SHALL NOT BE INSTALLED WITHIN THE SAME STUD-CAVITY IN RATED PARTITIONS AND DEMISING WALLS. IF BACK TO BACK BOXES ARE NOT SEPARATED BY MINIMUM HORIZONTAL DISTANCE OF 24", THEN INSTALLATION OF A WALL OPENING PROTECTIVE MATERIAL (UL LISTED PUTTY PAD, INSTALLED ACCORDING TO THEIR UL CLASSIFICATION) IS REQUIRED TO MAINTAIN THE WALL RATING.
13. ALL DISCONNECT SWITCHES SHALL BE RATED HEAVY DUTY, AND NEMA 3R WHERE INSTALLED OUTDOORS.
14. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH NYLON PULL STRINGS AND SHALL BE CAPPED OR SEALED TO PREVENT DEBRIS ENTRY DURING CONSTRUCTION. MARK CONDUITS CLEARLY AS "SPARE" OR "FUTURE" AT BOTH ENDS.
15. CONDUIT SUPPORTS SHALL BE PROVIDED AT INTERVALS PER NEC AND MANUFACTURER REQUIREMENTS. SECURE CONDUITS USING STRUT, BEAM CLAMPS, OR CONDUIT HANGERS TO AVOID SAGGING OR EXCESSIVE DEFLECTION.
16. WHERE RACEWAYS TRANSITION BETWEEN MATERIAL TYPES (PVC TO EMT, RMC TO FMC, ETC.), USE LISTED TRANSITION FITTINGS AND BONDING JUMPERS AS REQUIRED TO MAINTAIN CONTINUOUS GROUNDING.
17. MINIMUM BOX SIZE SHALL BE DETERMINED BASED ON CONDUCTOR COUNT, DEVICE SIZE, AND WIRE FILL PER NEC 314. CONTRACTOR SHALL UPSIZE BOXES WHERE REQUIRED TO MEET BEND RADIUS OR ACCESSIBILITY REQUIREMENTS.
18. GROUNDING ELECTRODE CONDUCTORS AND BONDING JUMPERS SHALL BE SECURED TO STRUCTURE USING LISTED CLAMPS OR GROUNDING HARDWARE. DO NOT USE COMPRESSION FITTINGS OR STRAP-ON DEVICES NOT RATED FOR GROUNDING APPLICATIONS.

FUNCTIONAL TESTING:

1. THE ELECTRICAL CONTRACTOR SHALL ARRANGE FOR AND COMPLETE FUNCTIONAL TESTING AT THE END OF THE PROJECT PRIOR TO THE FINAL INSPECTION TO ENSURE THAT LIGHTING AND RECEPTACLE CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. WHERE REQUIRED BY THE CODE OFFICIAL, AN APPROVED PARTY INDEPENDENT FROM THE DESIGN OR CONSTRUCTION OF THE PROJECT SHALL BE RESPONSIBLE FOR THE FUNCTIONAL TESTING AND SHALL PROVIDE DOCUMENTATION TO THE C CODE OFFICIAL CERTIFYING THAT THE INSTALLED LIGHTING AND RECEPTACLE CONTROLS MEET THE PROVISIONS OF SECTION C405.
2. WHERE OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE SCHEDULE CONTROLS, PHOTO SENSORS OR DAYLIGHTING CONTROLS ARE INSTALLED, THE FOLLOWING GENERAL PROCEDURES SHALL BE PERFORMED. REFER TO FBC C408.3 FOR SPECIFIC REQUIREMENTS.
   A. CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE.
   B. CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
   C. CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTO SENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.
3. WITHIN 90 DAYS FROM THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY, THE CONTRACTOR SHALL SUBMIT TO THE BUILDING OWNER DOCUMENTATION CERTIFYING THAT INSTALLED LIGHTING CONTROLS MEET THE DOCUMENTED PERFORMANCE CRITERIA OF SECTION C405.

PROJECT COMPLETION REQUIREMENTS

1. WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF THE ACTUAL INSTALLATION TO THE BUILDING OWNER, INCLUDING:
   A. A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM.
   B. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.
2. THE CONTRACTOR SHALL PROVIDE OPERATING MANUAL AND MAINTENANCE MANUALS TO THE BUILDING OWNER. THE MANUALS SHALL BE NEATLY BOUND AND ORGANIZED AND SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
   A. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
   B. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
   C. NAME AND ADDRESS OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

SUBMITTALS

1. SUBMIT MANUFACTURERS' CUT SHEETS AND CATALOG DATA CLEARLY INDICATING THE SPECIFIC PART OR PRODUCT CATALOG NUMBER(S) FOR APPROVAL.
2. ELECTRONICALLY SUBMIT REQUESTED INFORMATION, NEATLY BOUND AND INDEXED PER CATEGORY FOR THE FOLLOWING ITEMS, NOT ALL RELEVANT ON ALL PROJECTS:
   A. INTERIOR AND EXTERIOR LIGHTING FIXTURES.
   B. FIRE ALARM SYSTEM.
   C. LIGHTING CONTROLS, CONTACTORS, PHOTOCELLS.
   D. OCCUPANCY SENSORS AND WIRING DIAGRAMS.
   E. SWITCHGEAR INCLUDING PANELBOARDS, DISCONNECT SWITCHES.
   F. EXTERIOR LIGHTING POLES WITH RELEVANT WIND LOAD DATA.
   G. SURGE PROTECTION DEVICES.
3. ALLOW TWO WEEKS FOR ENGINEER TO COMPLETE REVIEW OF SHOP DRAWINGS.
   WILL NOT BE RESPONSIBLE FOR PROJECT DELAYS RELATED TO DELIVERY AND TRANSMISSION OF SHOP DRAWINGS ONCE INFORMATION HAS LEFT ENGINEER'S OFFICE. ITEMS REQUIRING LONG LEAD TIME SHOULD BE SUBMITTED AS SOON AS POSSIBLE.

GENERAL REQUIREMENTS

1. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, AND TOOLS TO PERFORM ALL WORK NECESSARY FOR THE COMPLETE EXECUTION OF THE ELECTRICAL WORK AS SHOWN ON THE
2. PROVIDE WORK NOT SPECIFICALLY SHOWN OR SPECIFIED, YET REQUIRED TO INSURE PROPER AND COMPLETE OPERATIONS OF ALL SYSTEMS AND TO SATISFY THE DESIGN INTENT IN THE WORK AND TO COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS.
3. LABOR FOR THE INSTALLATION OF MATERIALS AND EQUIPMENT FURNISHED UNDER THE ELECTRICAL CONTRACTORS' SCOPE OF WORK SHALL BE PERFORMED BY EXPERIENCED MECHANICS OF THE PROPER TRADE AND ALL WORKMANSHIP SHALL BE FIRST CLASS AND SHALL BE IN COMPLIANCE WITH THE SPECIFIC REQUIREMENTS OF THE CONTRACT DRAWINGS.
4. ALL DISCREPANCIES ON DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF A BID CONSTITUTES ACCEPTANCE OF FIELD CONDITIONS.
5. ALL DIVISION 1 SPECIFICATIONS AND ARCHITECTURAL GENERAL AND SPECIAL CONDITIONS OUTLINED IN THE CONTRACT DOCUMENTS SHALL APPLY TO ELECTRICAL SYSTEMS.
6. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE FOLLOWING CODES AND STANDARDS:

   FLORIDA BUILDING CODE 8TH EDITION
   NATIONAL ELECTRICAL CODE, 2020 (NEC)
   NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION, (NEMA)
   NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION, (NECA)
   AMERICAN NATIONAL STANDARDS INSTITUTE, (ANSI)
   UNDERWRITERS LABORATORIES, (UL)
   ALL LOCAL CODES, ORDINANCES, REGULATIONS
   LOCAL POWER COMPANY STANDARDS
   THE AUTHORITY HAVING JURISDICTION.
7. ALL MATERIALS PROVIDED BY THE CONTRACTOR SHALL BE NEW AND FREE OF DEFECTS AND SHALL BE UL LISTED FOR THE INTENDED APPLICATION.
8. THE ELECTRICAL DRAWINGS ARE NOT TO BE SCALED. WHERE SPECIFIC DETAILS AND DIMENSIONS FOR ELECTRICAL WORK ARE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL TAKE MEASUREMENTS AND MAKE LAYOUTS AS REQUIRED FOR FOR THE PROPER INSTALLATION AND COMPLETION OF THE WORK.
9. CONTRACTOR SHALL OBTAIN AND FURNISH ALL PERMITS, AND ARRANGE FOR ALL REQUIRED INSPECTIONS.
10. CONTRACTOR SHALL INSPECT SITE FOR FIELD VERIFICATION OF ALL ASPECTS OF THE PROJECT PRIOR TO BIDDING.
11. THE CONTRACT DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF CIRCUITS AND OUTLETS, LOCATION OF SWITCHES, PANELBOARDS, CONDUITS, AND OTHER WORK. FIELD VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION OF WORK.
12. ALL DISCONNECT SWITCHES AND STARTERS FOR THE MECHANICAL EQUIPMENT SHALL BE SIZED AND PROVIDED BY THE ELECTRICAL CONTRACTOR AND INSTALLED AND CIRCUITED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. INSTALL SWITCHES IN ACCESSIBLE LOCATIONS. PRIOR TO INSTALLATION OF ANY ELECTRICAL WORK RELATED TO NEW HVAC CIRCUITS, THE ELECTRICAL CONTRACTOR SHALL REVIEW THE MECHANICAL SHOP DRAWINGS FOR ACTUAL CIRCUIT REQUIREMENTS.
13. THE ELECTRICAL CIRCUITS, COMPONENTS, AND CONTROLS ARE SELECTED AND SIZED FOR THE EQUIPMENT SPECIFIED AND OR SHOWN. IF SUBSTITUTIONS AND/OR EQUIVALENT EQUIPMENT ARE FURNISHED, IT SHALL BE THE RESPONSIBILITIES OF ALL PARTIES CONCERNED, INVOLVED IN AND FURNISHING THE SUBSTITUTE AND/OR EQUIVALENT EQUIPMENT TO VERIFY AND COMPARE THE ELECTRICAL CHARACTERISTICS OF THAT FURNISHED TO THAT SHOWN.
14. FIELD COORDINATE EXACT ELECTRICAL CONNECTION POINTS TO EQUIPMENT PRIOR TO ROUGH IN OF ELECTRICAL COMPONENTS.
15. FIELD DETERMINE EXACT MOUNTING LOCATION OF DUCT MOUNTED SMOKE DETECTORS. INSTALL PER NFPA AND MANUFACTURER'S WRITTEN INSTRUCTIONS.
16. COORDINATE MOUNTING LOCATIONS OF LIGHTING SWITCHES, F/A DEVICES, TV, DATA/TEL OUTLETS, AND RECEPTACLES WITH MILLWORK, PRIOR TO ROUGH-IN.
17. COORDINATE MOUNTING LOCATIONS OF RECEPTACLE AND TV AND DATA OUTLETS WITH OWNER REPRESENTATIVE PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL PLANS FOR WALL CONSTRUCTION TYPES.
18. PROVIDE A 120V RECEPTACLE AND SWITCHED LIGHTING OUTLET WITH LAMP WITHIN 3 FT. OF THE SERVICING SIDE OF ALL ELECTRICALLY OPERATED MECHANICAL EQUIPMENT INSTALLED IN ATTICS AND CRAWL SPACES.
19. THE CONTRACTOR SHALL PROVIDE ALL CHANNEL AND ANGLE SUPPORTING SYSTEMS, HANGERS, A ANCHORS, SLEEVES, BRACKETS, FABRICATED ITEMS, AND HARDWARE AS REQUIRED TO PROVIDE SECURE SUPPORT, PER N.E.C., FOR ALL ELECTRICAL COMPONENTS FROM THE BUILDING STRUCTURE.
20. SPECIFIED CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY ONLY, FIELD COORDINATE ACTUAL ROUTING OF CONDUITS.
21. PROVIDE TEMPORARY LIGHTING AND POWER AS REQUIRED FOR ALL SUBS AND TO SUIT JOB CONDITIONS.
22. ALL MOUNTING HEIGHTS INDICATED ARE MEASURED FROM THE FINISHED FLOOR INSIDE, OR FINISHED GRADE OUTSIDE.
23. WHERE CONCEALED BY INACCESSIBLE FINISHES, PROVIDE ACCESS DOORS TO ELECTRICAL JUNCTION AND PULL BOXES, CONTROL DEVICES, AND EQUIPMENT, DISCONNECT SWITCHES AND ALL OTHER ITEMS REQUIRING MAINTENANCE, ADJUSTING, OR SERVICE. COORDINATE LOCATION OF ACCESS PANELS WITH ARCHITECT AND ALL AFFECTED TRADES.
24. PROVIDE FINAL CLEANUP AND CONDUCT FIELD TESTS AFTER INSTALLATION OF ALL ELECTRICAL WORK. ADJUST ITEMS TO THE SATISFACTION OF THE OWNER, ARCHITECT, AND ENGINEER. LEAVE PANELBOARD INTERIOR CLEAN AND FREE FROM CONSTRUCTION DEBRIS. NEATLY DRESS ALL WIRING, AND RE-TIGHTEN ALL TERMINATIONS PER MANUFACTURERS' RECOMMENDATIONS.
25. TEST RESISTANCE OF GROUNDING ELECTRODE SYSTEM TO EARTH TO ACHIEVE A MINIMUM OF 10 OHMS, PROVIDE ADDITIONAL ELECTRODE TO OBTAIN ADEQUATE READING.
26. MAINTAIN ON THE JOBSITE IN GOOD CONDITION ONE SET OF UP TO DATE AS-BUILT ELECTRICAL DRAWINGS. PROGRESSIVELY, NEATLY, LEGIBLY AND EXACTLY RECORD ON THESE DRAWINGS THE LOCATION OF ALL CONCEALED CONDUIT RUNS AND ALL WORK WHICH IS INSTALLED DIFFERENTLY THAN IN THE LOCATION AND MANNER INDICATED ON THE DRAWINGS. PROVIDE A COPY OF THESE PLANS FOR THE OWNER.
27. UPON COMPLETION OF PROJECT, BALANCE PANELBOARD LOADS AMONG PHASES IN NEW PANELBOARDS WITHIN 10% OF EACH OTHER.
28. PROVIDE A FULL ONE YEAR WARRANTY ON ALL ELECTRICAL LABOR, AND MATERIALS INSTALLED ON THIS PROJECT, STARTING FROM THE ISSUANCE OF THE OWNERS CERTIFICATE OF OCCUPANCY.
29. PER FLORIDA ENERGY CODE SECTION C450.5.3, THESE PLANS HAVE BEEN DESIGNED TO LIMIT THE COMBINED VOLTAGE DROP ON FEEDERS AND BRANCH CIRCUITS TO 5% MAXIMUM.
30. ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), FLORIDA BUILDING CODE, AND ALL LOCAL CODES, REGULATIONS, AND UTILITY REQUIREMENTS.
31. PROVIDE ALL LABOR, MATERIALS, TOOLS, AND EQUIPMENT REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION AS INDICATED ON THE DRAWINGS AND REQUIRED BY FIELD CONDITIONS.
32. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, UL LISTED, AND APPROVED FOR THE INTENDED APPLICATION. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
33. ALL LOAD CENTERS, PANELBOARDS, AND ENCLOSURES INSTALLED IN CORROSIVE, MOIST, OR WASHDOWN ENVIRONMENTS SHALL BE NEMA 4X RATED STAINLESS STEEL OR NON-METALLIC UNITS SUITABLE FOR THE CONDITIONS.
34. PROVIDE CABLE MANAGEMENT TRAYS, WIRE BASKETS, OR LADDER RACKS ABOVE ACCESSIBLE CEILINGS OR EXPOSED STRUCTURES WHERE MULTIPLE COMMUNICATIONS OR LOW VOLTAGE CABLES ARE ROUTED IN PARALLEL. DO NOT LAY CABLES ON CEILING TILES OR DUCTWORK.
35. COORDINATE ALL DEVICE, RECEPTACLE, JUNCTION BOX, AND EQUIPMENT LOCATIONS WITH MILLWORK, MECHANICAL EQUIPMENT, STRUCTURAL ELEMENTS, AND OWNER REQUIREMENTS PRIOR TO ROUGH-IN.
36. MAINTAIN REQUIRED CLEARANCES AROUND ELECTRICAL EQUIPMENT PER NEC 110.26. DO NOT INSTALL PIPING OR OBSTRUCTIONS IN THESE CLEARANCE ZONES.
37. PROVIDE SPARE 1" CONDUITS WITH PULL STRINGS FROM EACH ELECTRICAL ROOM TO ABOVE CEILING SPACE FOR FUTURE LOW VOLTAGE OR OWNER-PROVIDED SYSTEMS. TERMINATE CONDUITS IN JUNCTION BOX WITH BLANK COVER AND LABEL "SPARE."
38. ALL JUNCTION BOXES INSTALLED IN EXPOSED LOCATIONS SHALL BE LABELED WITH PANEL AND CIRCUIT NUMBER USING ENGRAVED PLASTIC TAGS OR P-TOUCH STYLE DURABLE LABELS. LABELS SHALL BE SECURELY AFFIXED AND RESISTANT TO DUST, OIL, AND MOISTURE.
39. PROVIDE A CONTINUOUS EQUIPMENT GROUNDING CONDUCTOR IN ALL RACEWAYS. BOND ALL METALLIC RACEWAYS, BOXES, SUPPORTS, AND ENCLOSURES TO GROUND PER NEC ARTICLE 250.
40. ALL LIGHTING CONTROLS, OCCUPANCY SENSORS, TIME SWITCHES, AND PHOTOCELLS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLORIDA ENERGY CONSERVATION CODE AND MANUFACTURER REQUIREMENTS.
41. SEPARATE CONDUITS SHALL BE PROVIDED FOR POWER, LIGHTING, LOW VOLTAGE, AND DATA SYSTEMS. MAINTAIN A MINIMUM SEPARATION OF 12" HORIZONTALLY OR 6" VERTICALLY BETWEEN PARALLEL POWER AND DATA RUNS TO AVOID INTERFERENCE.
42. ALL WIRING DEVICES, FIXTURES, AND EQUIPMENT MOUNTED BELOW 8'-0" AFF IN MANUFACTURING OR MECHANICAL SPACES SHALL BE INSTALLED IN RIGID STEEL OR SCHEDULE 80 PVC CONDUIT TO PROTECT AGAINST MECHANICAL DAMAGE.
43. COORDINATE FINAL CONNECTIONS AND CIRCUIT REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR SHOP DRAWINGS AND ACTUAL EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN.
44. PROVIDE A 120V GFCI RECEPTACLE AND A SWITCHED LIGHT FIXTURE WITHIN 25 FEET OF ALL FIXED ELECTRICALLY-OPERATED EQUIPMENT LOCATED IN ATTICS, MEZZANINES, CRAWL SPACES, OR OTHER SERVICE AREAS PER NEC 210.63.
45. PROVIDE IDENTIFICATION LABELS FOR ALL PANELS, JUNCTION BOXES, AND OUTLETS IN AREAS WITH EXPOSED CONDUIT INSTALLATIONS. USE ENGRAVED PLASTIC NAMEPLATES OR PERMANENT SELF-ADHESIVE LABELS.
46. PROVIDE TEMPORARY POWER AND LIGHTING AS REQUIRED FOR CONSTRUCTION AND FOR ALL TRADES, IN ACCORDANCE WITH OSHA REQUIREMENTS AND JOBSITE CONDITIONS. MAINTAIN THROUGH PROJECT COMPLETION.
47. AT COMPLETION OF WORK, CLEAN ALL ELECTRICAL EQUIPMENT, REMOVE DEBRIS FROM PANEL INTERIORS, DRESS ALL CONDUCTORS NEATLY, AND VERIFY ALL CONNECTIONS ARE TIGHTENED TO MANUFACTURER-SPECIFIED TORQUE.
48. MAINTAIN UP-TO-DATE AS-BUILT ELECTRICAL DRAWINGS ON SITE THROUGHOUT CONSTRUCTION. CLEARLY RECORD ALL DEVIATIONS FROM BID DOCUMENTS INCLUDING CONDUIT ROUTING, CIRCUIT CHANGES, AND DEVICE LOCATIONS.
49. PROVIDE ALL SUPPORTS, STRUT, HANGERS, BRACKETS, ANCHORS, AND FASTENERS AS NEEDED TO SECURELY SUPPORT CONDUIT, CABLE TRAY, AND ELECTRICAL EQUIPMENT FROM THE STRUCTURE. INSTALL PER NEC AND MANUFACTURER'S REQUIREMENTS FOR INDUSTRIAL ENVIRONMENTS.
50. INSTALL ALL RACEWAYS, CABLES, BOXES, AND DEVICES IN A NEAT AND WORKMANLIKE MANNER. ALIGN AND LEVEL ALL CONDUITS AND OUTLETS UNIFORMLY, WHETHER EXPOSED OR CONCEALED.
51. FOR EQUIPMENT LOCATED OUTDOORS OR IN WET OR DAMP LOCATIONS, PROVIDE WEATHERPROOF, CORROSION-RESISTANT DEVICES, BOXES, COVERS, AND FITTINGS SUITABLE FOR ENVIRONMENTAL CONDITIONS.
52. PROVIDE SEALING BUSHINGS OR DUCT SEAL AT ALL CONDUIT ENTRIES TO PANELS, JUNCTION BOXES, AND EQUIPMENT ENCLOSURES WHERE MOISTURE OR DUST INGRESS MAY OCCUR.
53. ALL CEILING- AND WALL-MOUNTED DEVICES IN AREAS WITH STRUCTURAL STEEL, TRUSSES, OR DECKING SHALL BE INSTALLED USING APPROPRIATE SUPPORT HARDWARE TO AVOID DRILLING OR PENETRATING STRUCTURAL MEMBERS UNLESS APPROVED BY STRUCTURAL ENGINEER.
54. IF EQUIPMENT SUBMITTALS OR FIELD CONDITIONS REQUIRE CIRCUIT REVISIONS OR UPSIZED CONDUCTORS, THE CONTRACTOR SHALL UPSIZE RACEWAYS ACCORDINGLY AND NOTIFY THE ENGINEER FOR REVIEW AND RECORD DOCUMENTATION.
55. ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS, FLOORS, OR CEILINGS SHALL BE SEALED USING UL-LISTED FIRESTOPPING SYSTEMS TO MAINTAIN THE FIRE-RESISTANCE RATING OF THE ASSEMBLY.
56. PROVIDE EXPANSION FITTINGS ON CONDUIT RUNS INSTALLED IN OR ACROSS STRUCTURAL JOINTS, OR WHERE REQUIRED BY CODE OR SITE CONDITIONS TO ACCOMMODATE THERMAL OR STRUCTURAL MOVEMENT.
57. ENSURE ALL JUNCTION BOXES AND ACCESSIBLE WIRING ENCLOSURES ARE ACCESSIBLE AFTER INSTALLATION. COORDINATE ACCESS DOOR LOCATIONS WITH ARCHITECTURAL DESIGN AS NEEDED.
58. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED AT MINIMUM DEPTHS PER NEC TABLE 300.5. PROVIDE WARNING TAPE 12 INCHES ABOVE CONDUITS AND SEAL ENDS TO PREVENT MOISTURE ENTRY.
59. FOR EQUIPMENT REQUIRING DISCONNECTING MEANS WITHIN SIGHT, LOCATE DISCONNECTS IN A READILY ACCESSIBLE LOCATION UNOBSTRUCTED BY MACHINERY OR STORAGE, AND LABEL THEM ACCORDINGLY.

SYMBOLS

LIGHTING

E	EXIT SIGN, CEILING OR PENDANT MOUNTED ABOVE DOOR. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
E	EXIT SIGN, WALL MOUNTED ABOVE DOOR. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	LED LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	LED LIGHTING FIXTURE WITH EMERGENCY BATTERY OR ON GENERATOR. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	LED LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	RECESSED LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	WALL SCONCE LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	LED STRIP LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	EMERGENCY BATTERY LIGHTING FIXTURE. SEE SCHEDULE FOR DETAILS.
$	125V OR 277V AC SINGLE POLE 20 AMP SWITCH. MOUNT TOP OF DEVICE LESS THAN 46" AFF.
$LD	LOW VOLTAGE DIMMINGSWITCH. BASIS OF DESIGN: nLIGHT. MOUNT TOP OF DEVICE LESS THAN 46" AFF.
$LV	LOW VOLTAGE SWITCH. BASIS OF DESIGN: nLIGHT. MOUNT TOP OF DEVICE LESS THAN 46" AFF.
$OS	LOW VOLTAGE SWITCH WITH INTEGRAL OCCUPANCY SENSOR. BASIS OF DESIGN: nLIGHT. MOUNT TOP OF DEVICE LESS THAN 46" AFF.
$OV	LOW VOLTAGE OVERRIDE SWITCH. BASIS OF DESIGN: nLIGHT
$DOS	nLIGHT. MOUNT TOP OF DEVICE LESS THAN 46" AFF.

POWER AND WIRING

	120/208V PANELBOARD AS SCHEDULED
	277/480V PANELBOARD AS SCHEDULED
	TRANSFORMER, 480V, 3PH., 3W TO 120/208V, PH., 4W
3 30/*	FUSED DISCONNECT SWITCH. NEMA 1 (INDOOR) OR NEMA 3R (OUTDOOR). SINGLE NUMBER INDICATES NUMBER OF POLES. TOP NUMBER INDICATES MAXIMUM AMPERAGE. BOTTOM INDICATES ACTUAL FUSING AS INDICATED OR AS DETERMINED FROM MANUFACTURER'S NAMEPLATE. DISCONNECT SWITCH MUST BE CAPABLE OF BEING LOCKED IN THE OPEN (OFF) POSITION.
3 30/NF	NON-FUSED (NF) DISCONNECT SWITCH. NEMA 1 (INDOOR) OR NEMA 3R (OUTDOOR). SINGLE NUMBER INDICATES NUMBER OF POLES. TOP NUMBER INDICATES MAXIMUM AMPERAGE. DISCONNECT SWITCH MUST BE CAPABLE OF BEING LOCKED IN THE OPEN (OFF) POSITION.
SM	MOTOR RATED SWITCH.
J	JUNCTION BOX. CODE SIZED FOR APPLICATION.
	RACEWAY CONCEALED ABOVE CEILING, IN WALLS OR EXPOSED.
	RACEWAY CONCEALED BELOW FLOOR, ROOF, OR GRADE.
	HOMERUN TO PANELBOARD, NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. PROVIDE GREEN INSULATED GROUNDING CONDUCTOR IN ALL POWER AND LIGHTING RACEWAYS, NOT SHOWN ON PLANS.
	GROUND
GFP	GROUND FAULT PROTECTION
ARMS	ARC FLASH ENERGY REDUCTION MAINTENANCE SWITCH
ST	SHUNT TRIP
EPO	SCIENCE LAB UTILITY CONTROLLER
	SCIENCE LAB UTILITY EMERGENCY POWER OFF PUSHBUTTON

WIRING DEVICES

	125V AC 20 AMP DUPLEX RECEPTACLE, NEMA 5-20R MOUNTED AT 18" AFF, U.O.N.
WP	125V AC 20 AMP DUPLEX RECEPTACLE NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER, RECEPTACLE SHALL BE LISTED AS WEATHER RESISTANT
	125V AC 20 AMP DUPLEX RECEPTACLE NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER, MOUNTED AT 18" A.F.F, U.O.N.
	125V AC 20 AMP DUPLEX RECEPTACLE, NEMA 5-20R MOUNTED AT COUNTER HEIGHT, TOP OF DEVICE LESS THAN 46" AFF.
	125V AC 20 AMP DUPLEX RECEPTACLE NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER, MOUNTED AT COUNTER HEIGHT, TOP OF DEVICE LESS THAN 46" AFF.
	125V AC 20 AMP DOUBLE DUPLEX RECEPTACLE NEMA 5-20R WITH GROUND FAULT CIRCUIT INTERRUPTER, MOUNTED AT 18" A.F.F, U.O.N.
	125V AC 20 AMP DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R MOUNTED AT 18" AFF, U.O.N.
	125V AC 20 AMP DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R MOUNTED AT COUNTER HEIGHT, TOP OF DEVICE LESS THAN 46" AFF.
	SPECIAL PURPOSE RECEPTACLE MOUNTED AT 48" AFF. PROVIDE/INSTALL MATCHING PLUG IF REQUIRED. FIELD COORDINATE EXACT REQUIREMENTS WITH OWNER'S REPRESENTATIVE.
	125V AC 20 AMP RECESSED SIMPLEX RECEPTACLE, NEMA 5-20R IN SINGLE GANG RECESSED BOX, MOUNTED AT 18" AFF, U.O.N., MATCH SURROUNDING COVER PLATES, LEVITON T5830 OR EQUAL.
	CEILING BOX. DEVICE W/ (2) DUPLEX RECEPTACLES BY ELEC. (1) HDMI OUTLET - BOXES AND CONDUIT BY ELEC, HDMI JACKS BY DIV 27.
	FLOOR BOX. DEVICE W/ (2) DUPLEX RECEPTACLES BY ELEC. (4) CAT6 OUTLETS - BOXES AND CONDUIT BY ELEC, DATA JACKS BY DIV 27.
	COMMUNICATIONS/DATA OUTLET. 2-GANG BOX WITH 3/4" CONDUIT TO ACCESSIBLE CEILING BY ELEC. MOUNT 18" ABOVE FLOOR. CABLING & JACKS BY DIV 27

COMMUNICATION/TELEPHONE OUTLET NOTES:

- # — INDICATES QUANTITY OF DATA/PHONE/FIBER OUTLETS.
- P — INDICATES OUTLET SHALL BE USED FOR VOIP PHONE.
- D — INDICATES OUTLET SHALL BE USED FOR DATA.
- C — INDICATES OUTLET SHALL BE USED FOR CAT6 AV-OVER-IP

REV#	DATE	REVISION
1	TBD	TBD

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LAKEFRONT BOY'S SCHOOL

OKEECHOBEE, FL

DRAWING TITLE
ELECTRICAL SCHEDULES, NOTES, SYMBOLS LEGEND

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ENGINEER OF RECORD

PRELIMINARY
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DAVID E. ALLEY, PE
PE #55008

DATE: 03/02/2026

SCALE: 12" = 1'-0"

PROJ. NO. : 250222

DESIGNED BY: DCS

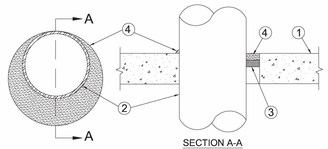
DRAWN BY: DCS

CHECKED BY: DEA

DRAWING NO.: E001

Through Penetrations | Metallic Pipes | 1000 Series | Concrete | CAJ

System No. C-AJ-1001
March 05, 2007
F Rating – 3 Hr
T Rating – 0 Hr
W Rating – Class 1 (See Item 4)



1. **Floor or Wall Assembly** – Min 4-1/2 in. (114 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of circular through opening is 32-1/2 in. (826 mm). See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

1A. **Steel Sleeve** (Optional, not shown) – Nom 12 in. (305 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe sleeve cast into concrete floor or wall. Sleeve to be flush with or project max 2 in. (51 mm) from top surface of floor or from both surfaces of wall. As an alternate, nom 12 in. (305 mm) diam (or smaller) sleeve fabricated from nom 0.019 in. (0.48 mm) thick galv steel cast or grouted into floor or wall assembly flush with floor or wall surfaces.

2. **Through Penetrant** – One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm, point contact) to max 1-3/8 in. (35 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   - A. **Steel Pipe** – Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   - A1. **Iron Pipe** – Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   - B. **Conduit** – Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
   - C. **Conduit** – Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.

3. **Packing Material** – Polyethylene backer rod or nom 1 in. (25 mm) thickness of tightly-packed ceramic (alumina silica) fiber blanket, mineral wool batt or glass fiber insulation material used as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of solid concrete or concrete block wall as required to accommodate the required thickness of caulk fill material (Item 4). As an alternate when max pipe size is 10 in. (254 mm) diam and when max annular space is 1 in. (25 mm), a min 1 in. (25 mm) thickness of tightly-packed ceramic fiber blanket or mineral wool batt packing material may be recessed min 1/2 in. (13 mm) from bottom surface of floor or from either side of solid concrete wall.

4. **Fill,Void or Cavity Materials*** – **Caulk or Sealant** – Applied to fill the annular space to the min thickness shown in the following table:

Max Pipe Diam In. (mm)	Max Annular Space In. (mm)	Packing Mtl Type (a)	Min Caulk Thkns In. (mm)
10 (254)	1 (25)	BR, CF, GF or MW	1/2 (13) (b)
10 (254)	1 (25)	CF or MW	1/2 (13) (c)
30 (762)	2-1/2 (64)	BR, CF, GF or MW	1 (25) (b)

(a) BR = Polyethylene backer rod.
CF = Ceramic fiber blanket.
GF = Glass fiber insulation.
MW = Mineral-wool batt.
(b) Caulk installed flush with top surface of floor or both surfaces of wall.
(c) Caulk installed flush with bottom surface of floor or one surface of solid (non-concrete block) wall.

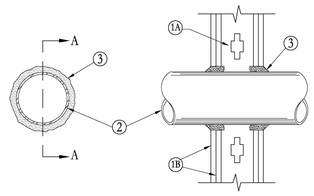
3M COMPANY – CP 25WB+ or FB-3000 WT
(Note: W Rating applies only when FB-3000 WT is used on top surface of floor and when it laps onto concrete for sleeved opening.)

*Bearing the UL Classification Marking

This material was extracted and drawn by 3M Fire Protection Products from the 2007 edition of the UL Fire Resistance Directory. c UL us

Through Penetrations | Metallic Pipes | 1000 Series | Gypsum | WL

System No. W-L-1001
June 15, 2005
F Ratings – 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings – 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating At Ambient – less than 1 CFM/sq ft
L Rating At 400 F – less than 1 CFM/sq ft



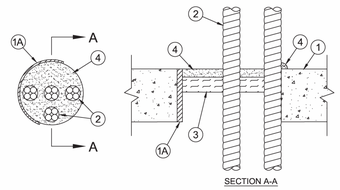
1. **Wall Assembly** – The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   - A. **Studs** – Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
   - B. **Gypsum Board*** – Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).

2. **Through Penetrant** – One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   - A. **Steel Pipe** – Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   - B. **Iron Pipe** – Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
   - C. **Conduit** – Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing
   - D. **Copper Tubing** – Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing
   - E. **Copper Pipe** – Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
   - F. **Through Penetrating Product*** – **Flexible Metal Piping** – The following types of steel flexible metal gas piping may be used:
     1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
        OMEGA FLEX INC
     2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
        TITEFLEX CORP
        A BUNDY CO
     3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
        WARD MFG INC

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Through Penetrations | Cables | 3000 Series | Concrete | CAJ

System No. C-AJ-3080
January 02, 2009
F Rating – 3 Hr
T Rating – 0 Hr



1. **Floor or Wall Assembly** – Min 4-1/2 in. (114 mm) thick lightweight or normal weight (100-150 pcf or 1600 - 2400 kg/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. When individual cable (Item 2) is installed in through opening, diam of opening to be 3/4 in. to 1-1/2 in. (19 mm to 38 mm) larger than diam of cable. When more than one cable is installed in opening, diam of opening to be sufficient to allow separation between cables for installation of caulk fill material (Item 4). Max diam of opening is 6 in. (152 mm).
   See **Concrete Block** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

1A. **Sleeve** – (Optional) – Nom 6 in. (152 mm) diam (or smaller) Schedule 40 PVC pipe or Schedule 10 (or heavier) steel pipe cast into concrete floor or wall. Sleeve to be flush with or project max 1-1/2 in. (38 mm) from top surface of floor or both surfaces of wall.

2. **Through Penetrating Products*** – Aggregate cross-sectional area of cables to be 15 to 30 percent of the cross-sectional area of the opening. Min annular space between cable and edge of through opening is zero in. (point contact). Through penetrating products to be rigidly supported on both sides of floor or wall assembly. The following types of through-penetrating products may be used:
   - A. Max four copper conductors No. 4/0 AWG (or smaller) aluminum or steel **Armored Cable®** or **Metal-Clad Cable+**.
     AFC CABLE SYSTEMS INC
   - B. Two or more twisted copper conductor No. 6 AWG (or smaller) **Power Limited Circuit Cable+** with or without a jacket under a metal armor.
     AFC CABLE SYSTEMS INC
   - C. Two or more twisted copper conductor No. 10 AWG (or smaller) **Power Limited Fire Alarm Cable+** with or without a jacket under a metal armor.
     AFC CABLE SYSTEMS INC
   - D. Two or more twisted copper conductor No. 12 AWG (or smaller) **Non Power Limited Fire Alarm Cable+** with or without a jacket under a metal armor.
     AFC CABLE SYSTEMS INC

3. **Packing Material** – Polyethylene backer rod or nom 1 in. (25 mm) thickness of mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as necessary to accommodate the required thickness of caulk fill material (Item 4).

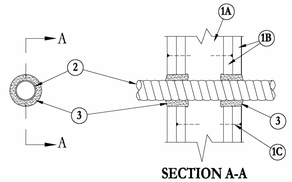
4. **Fill, Void or Cavity Material*** – **Caulk** – Applied to fill the annular space around the through penetrating product. When an individual cable is installed in a max 3 in. (76 mm) diam through opening, a min 1/2 in. (13 mm) depth of caulk fill material is required. When more than one cable is installed in through opening or through opening is larger than 3 in. (76 mm) diam, a min 1 in. (25 mm) depth of caulk fill material is required. Caulk fill material to be installed flush with top surface of floor. In walls, caulk fill material to be installed flush with wall surface on both sides of wall assembly.
   3M COMPANY – CP 25WB+ or IC 15WB+

*Bearing the UL Classification Marking
#Bearing the UL Listing Mark

This material was extracted and drawn by 3M Fire Protection Products from the 2009 edition of the UL Fire Resistance Directory. c UL us

Through Penetrations | Cables | 3000 Series | Gypsum | WL

System No. W-L-3015
August 6, 2003
(Formerly System No. 328)
F Rating – 1 and 2 Hr (See Item 3)
T Ratings – 0, 3/4 and 2 Hr (See Item 2)
L Rating at ambient – less than 1 CFM per sq ft. (See Item 3)
L Rating at 400 F – less than 1 CFM per sq ft. (See Item 3)



1. **Wall Assembly** – The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   - A. **Studs** – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.
   - B. **Gypsum Board*** – Nom 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum board type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of openings cut in gypsum board is 2 in.
   - C. **Fasteners** – When wood stud framing is employed, gypsum board attached to studs with cement coated nails as specified in the individual Wall or Partition Design. When steel channel stud framing is employed, gypsum board attached to studs with Type S self-drilling, self-tapping bugle-head steel screws as specified in the individual Wall or Partition Design.
     Diam of circular through opening cut through gypsum board on each side of wall assembly to be min 1/4 in. to max 11/16 in. larger than diam of through penetrating product (Item 2) installed in through opening. Side edge of circular opening to be min 3 in. from nearest stud in wall cavity.

2. **Through Penetrating Product*** – Max one armored cable or metal clad cable to be installed near center of circular opening in gypsum board. Through penetrating product to be rigidly supported on both sides of wall assembly. The following types of Through-Penetrating Products may be used:
   - A. Max four copper conductors No. 2/0 AWG (or smaller) aluminum or steel **Armored Cable® or Metal-Clad Cable+.**
     AFC CABLE SYSTEMS INC
   - B. Two or more twisted copper conductors No. 6 AWG (or smaller) **Power Limited Circuit Cable+** with or without a jacket under a metal armor.
     AFC CABLE SYSTEMS INC
   - C. Two or more twisted copper conductors No. 10 AWG (or smaller) **Power Limited Fire Alarm Cable+** with or without a jacket under a metal armor.
     AFC CABLE SYSTEMS INC
   - D. Two or more twisted copper conductors No. 12 AWG (or smaller) **Non Power Limited Fire Alarm Cable+** with or without a jacket under a metal armor
     AFC CABLE SYSTEMS INC

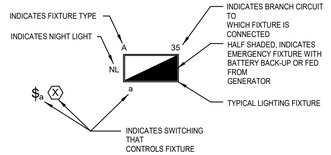
   When installed in 1 hr fire rated wall assembly, T Rating is 0 hr. When installed in 2 hr fire rated wall assembly, T Rating is 3/4 hr when max armored cable, metal-clad cable or power limited circuit cables are used. The T Rating is 2 hr when non power limited fire alarm cable is used.

3. **Fill, Void or Cavity Material*** – **Caulk** – Caulk fill material forced into annular space around entire circumference of through penetrating product to completely fill opening in gypsum board on each side of the wall assembly. A min 5/8 in. thickness of caulk is required for the 1 hr F Rating. A min 1-1/4 in. thickness of caulk is required for the 2 hr F Rating.
   3M COMPANY – CP 25WB+

*Bearing the UL Classification Mark

This material was extracted and drawn by 3M Fire Protection Products from the 2007 edition of the UL Fire Resistance Directory. c UL us

FIXTURE CIRCUITING DETAIL



1. "NIGHT LIGHTS" WHERE INDICATED ARE TO BE WIRED UNSWITCHED. CIRCUIT USING THE SMALLEST NUMBER OF LAMPS PER FIXTURE WHEN MORE THAN ONE BALLAST IS PROVIDED PER FIXTURE. REMAINING LAMPS SHALL BE SWITCHED WITH REST OF AREA LIGHTING FIXTURES.
2. INTEGRAL EMERGENCY BATTERIES SHALL BE CONNECTED TO UNSWITCHED LIGHTING CIRCUIT SERVING ROOM WHERE FIXTURE IS LOCATED.
3. IF MORE THAN ONE SWITCH LEG IS SHOWN ADJACENT TO FIXTURE, FIXTURE SHALL BE PROVIDED WITH SECOND BALLAST FOR INSIDE-OUTSIDE LAMP SWITCHING. ALL FIXTURES WITHIN SAME AREA SHALL BE WIRED THE SAME, UNLESS OTHERWISE NOTED.

AUTOMATIC SENSORS

MARK	MOUNTING	SENSOR TYPE	MANUFACTURER	NOTES
S_{LOS}	WALL	DUAL TECHNOLOGY	ACUITY nLIGHT LIGHTING CONTROLS #NWSX-PDT-LV-DX-WH	1, 2, 3
S_{OOS}	WALL	DUAL TECHNOLOGY 0-10V DIMMER	ACUITY nLIGHT LIGHTING CONTROLS #NWSX-PDT-LV-DX-WH	1, 2, 3
(OS)	CEILING	DUAL TECHNOLOGY	ACUITY nLIGHT LIGHTING CONTROLS #NCM PDT 10 RJB	1
(VS)	CEILING	DUAL TECHNOLOGY	ACUITY nLIGHT LIGHTING CONTROLS #NCM PDT 10 RJB	1,3

NOTES:

1. ACCEPTABLE MANUFACTURES INCLUDE WATTSTOPPER, HUBBELL, MYTECH, NOVITAS, LEVITON. MANUFACTURER TO CONFIRM APPLICATION AND PROVIDE WIRING DIAGRAMS FOR INSTALLATION. PROVIDE POWER PACKS WHERE REQUIRED. ALL SENSORS SHALL HAVE ADJUSTABLE DELAY-OFF SETTINGS THAT SHALL BE SET TO TURN OFF UP TO A MAXIMUM OF "30" MINUTES AFTER SPACE HAS BEEN VACATED. PROVIDE INSTRUCTIONS TO OWNER ON OPERATION AND PROGRAMMING OF SENSORS. PER FBC 0408.3.1.
2. ALL WALL MOUNTED SENSORS SHALL HAVE A VANDAL RESISTANT LENS AND SHALL HAVE BUILT-IN ON/OFF OVERRIDE CAPABILITY. INSTALL WHERE THE TOP OF THE DEVICE IS LESS THAN 46" AFF.
3. SET THESE AUTOMATIC CONTROL DEVICES TO VACANCY MODE SO THAT DEVICE IS MANUAL ON.

REVISION

REV#	DATE	REVISION
1	TBD	TBD

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MELBOURNE, FL 32935
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WWW.CEGROUPENG.COM
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CONSTRUCTION ENGINEERING GROUP
Consulting Engineers

LAKEFRONT BOY'S SCHOOL

OKEECHOBEE, FL

DRAWING TITLE
ELECTRICAL DETAILS

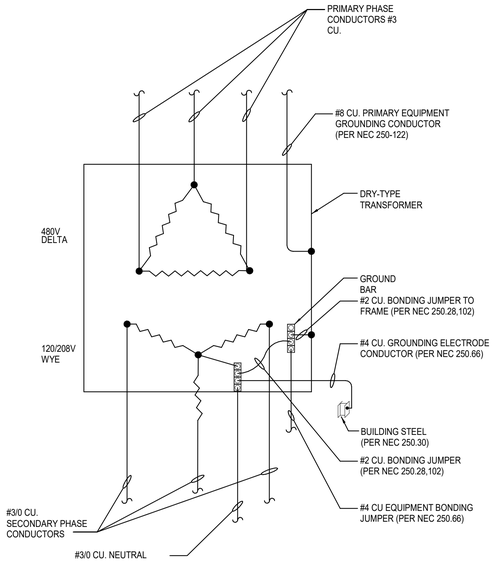
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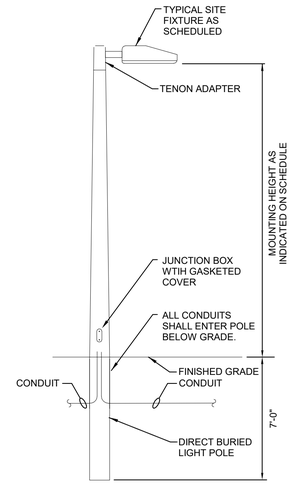
DAVID E. ALLEY, PE
PE #55008

DATE: 03/02/2026
SCALE: 12" = 1'-0"
PROJ. NO. : 250222
DESIGNED BY: DCS
DRAWN BY: DCS
CHECKED BY: DEA
DRAWING NO.: E002



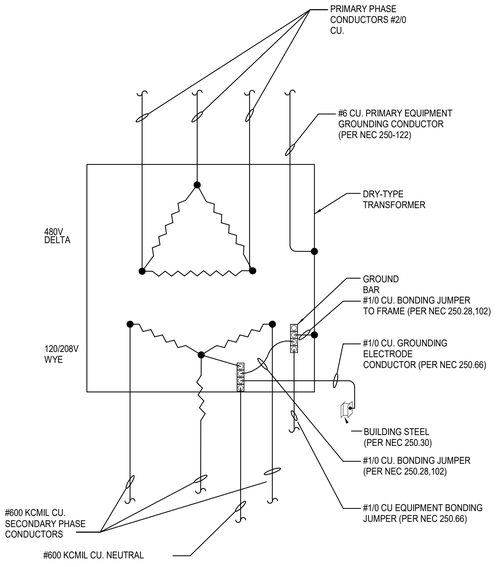
75 KVA STEP DOWN TRANSFORMER

(480 VOLT, 3 PHASE, 3 WIRE DELTA PRIMARY / 120/208 VOLT, 3 PHASE, 4 WYE SECONDARY)



TYPICAL SITE LIGHTING FIXTURE

NTS



112.5 KVA STEP DOWN TRANSFORMER

(480 VOLT, 3 PHASE, 3 WIRE DELTA PRIMARY / 120/208 VOLT, 3 PHASE, 4 WYE SECONDARY)

REV#	DATE	REVISION
1	TBD	TBD

CONSTRUCTION ENGINEERING GROUP
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TEL 321.253.1221
WWW.CEGRGHEERING.COM
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LAKEFRONT BOY'S SCHOOL

OKEECHOBEE, FL

DRAWING TITLE

ELECTRICAL DETAILS

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PE #55008

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SCALE: 12" = 1'-0"

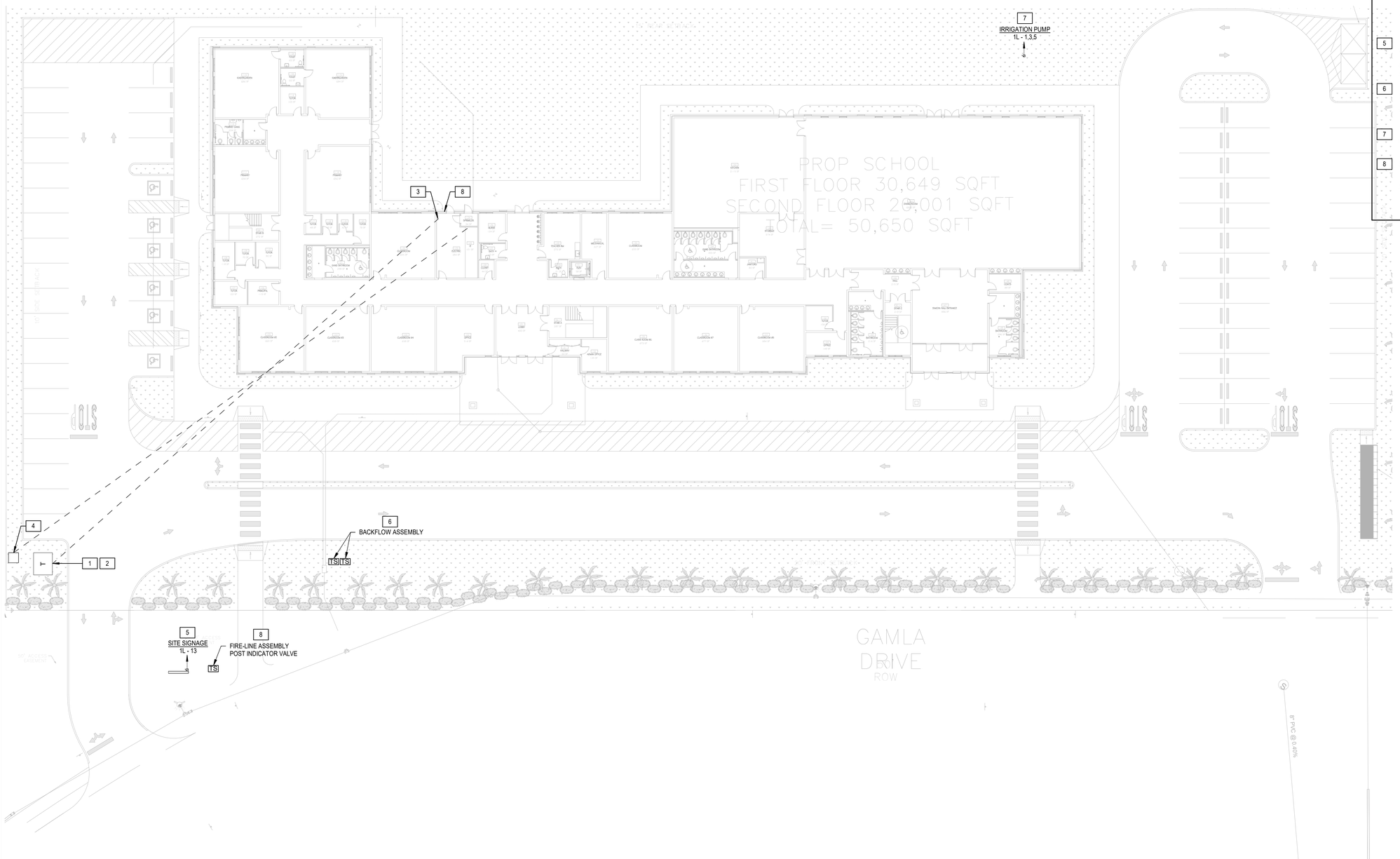
PROJ. NO. : 250222

DESIGNED BY: DCS

DRAWN BY: DCS

CHECKED BY: DEA

DRAWING NO.: E003



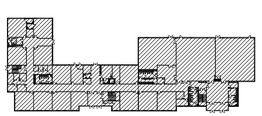
1 SITE PLAN - POWER

1" = 20'-0"

PLAN NOTES:

1. PROPOSED FPL PAD-MOUNTED TRANSFORMER LOCATION. FIELD VERIFY EXACT LOCATION WITH FPL. PROVIDE CONCRETE PAD PER FPL SPECIFICATIONS.
2. ROUTE (2) 5" U.G. PVC CONDUITS TO FROM THE TRANSFORMER PRIMARY COMPARTMENT TO THE NEW FPL PRIMARY POLE. COORDINATE TERMINATION POINT WITH FPL PROJECT MANAGER.
3. PROPOSED MDP LOCATION, REFER TO SHEET E101 AND RISER DIAGRAM ON SHEET E601 FOR ADDITIONAL INFORMATION.
4. FROM PROPOSED PROVIDER SERVICE POINT, EXTEND (2) 3" U.G. CONDUITS FOR INTERNET/CATV SERVICE AND (2) 3" U.G. CONDUITS FOR TELEPHONE SERVICE AND STUB-UP UNDER THE TTB IN THE MAIN COMMUNICATIONS ROOM. FIELD COORDINATE EXACT SERVICE POINT WITH LOCAL PROVIDERS PRIOR TO ROUGH IN OF U.G. CONDUITS.
5. PROPOSED SITE SIGN LOCATION. PROVIDE WEATHERPROOF TOGGLE-TYPE SWITCH AS A DISCONNECTING MEANS. ROUTE INDICATED BRANCH CIRCUIT VIA LIGHTING RELAY PANEL. FIELD COORDINATE ACTUAL SIGN LOCATION AND ADJUST AS REQUIRED.
6. PROVIDE FIRE ALARM CONNECTION TO THE TAMPER SWITCHES LOCATED AT THE FIRE SPRINKLER DOUBLE-DETECTOR CHECK VALVES. ROUTE CONDUCTORS VIA SURGE PROTECTION DEVICE. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION.
7. PROPOSED IRRIGATION PUMP LOCATION. COORDINATE LOCATION WITH IRRIGATION CONTRACTOR PRIOR TO ROUGH-IN.
8. STUB-UP (4) 4" EMPTY U.G. CONDUITS FOR FUTURE USE.

   PROVIDE FIRE ALARM CONNECTION TO THE TAMPER SWITCHES LOCATED AT THE FIRE LINE ASSEMBLY POST INDICATOR VALVE. ROUTE CONDUCTORS VIA SURGE PROTECTION DEVICE. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION.



KEYPLAN
N.T.S

0 10' 20' 40'
SCALE: 1" = 20'-0"

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LAKEFRONT BOY'S SCHOOL
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DRAWING TITLE
SITE PLAN - POWER

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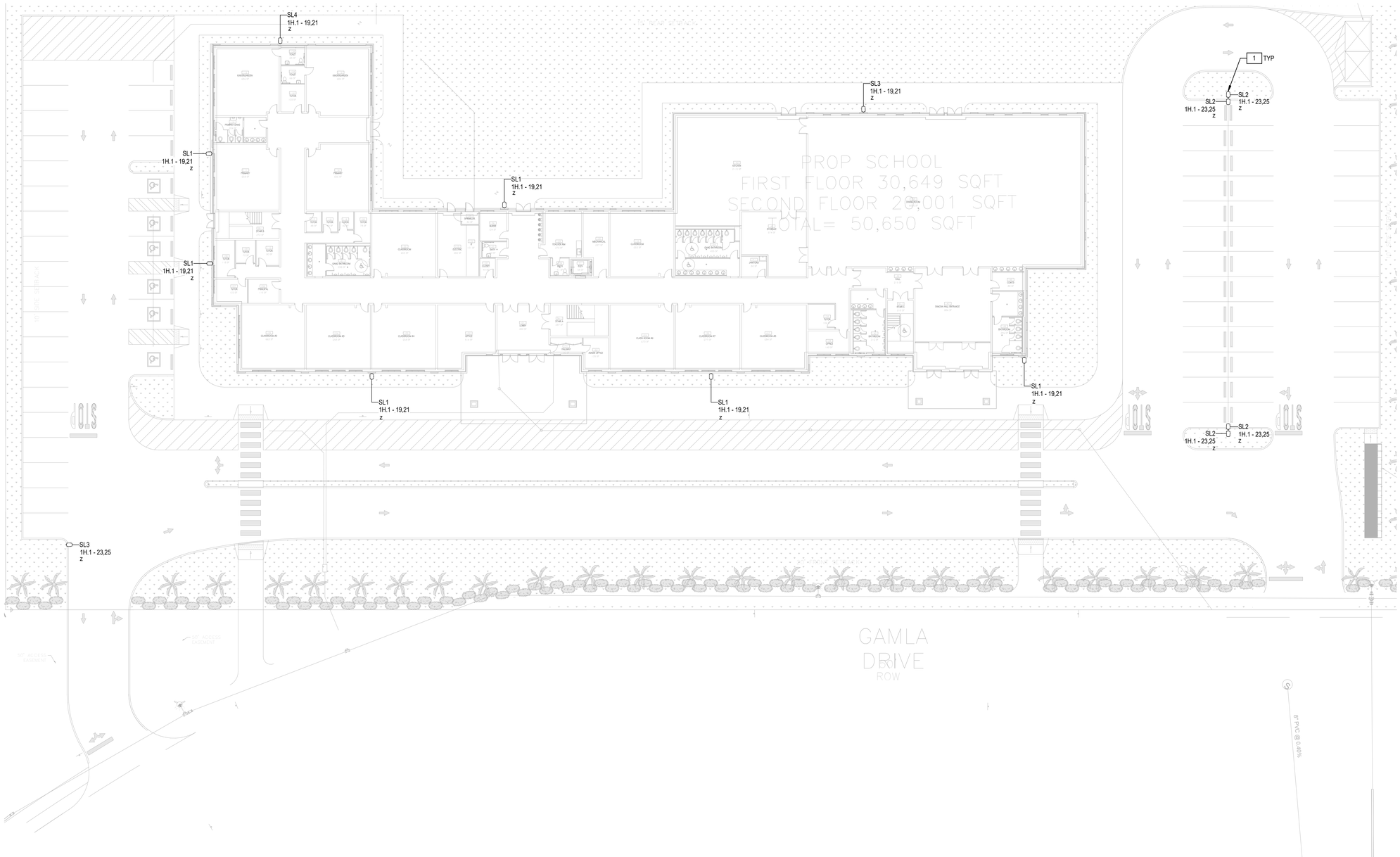
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PE #55008

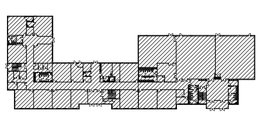
DATE: 03/02/2026
SCALE: As indicated
PROJ. NO. : 250222
DESIGNED BY: DCS
DRAWN BY: DCS
CHECKED BY: DEA
DRAWING NO.: ES101

PLAN NOTES:

1 ROUTE SITE LIGHTING BRANCH CIRCUITS VIA LIGHTING RELAY PANEL. ALL SITE LIGHTING CIRCUITS SHALL ENTER THE POLE BELOW GRADE. REFER TO SITE LIGHTING FIXTURE DETAIL ON THIS DRAWING.



1 SITE PLAN - LIGHTING
1" = 20'-0"



KEYPLAN
N.T.S

0 10' 20' 40'
SCALE: 1" = 20'-0"

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SITE PLAN - LIGHTING

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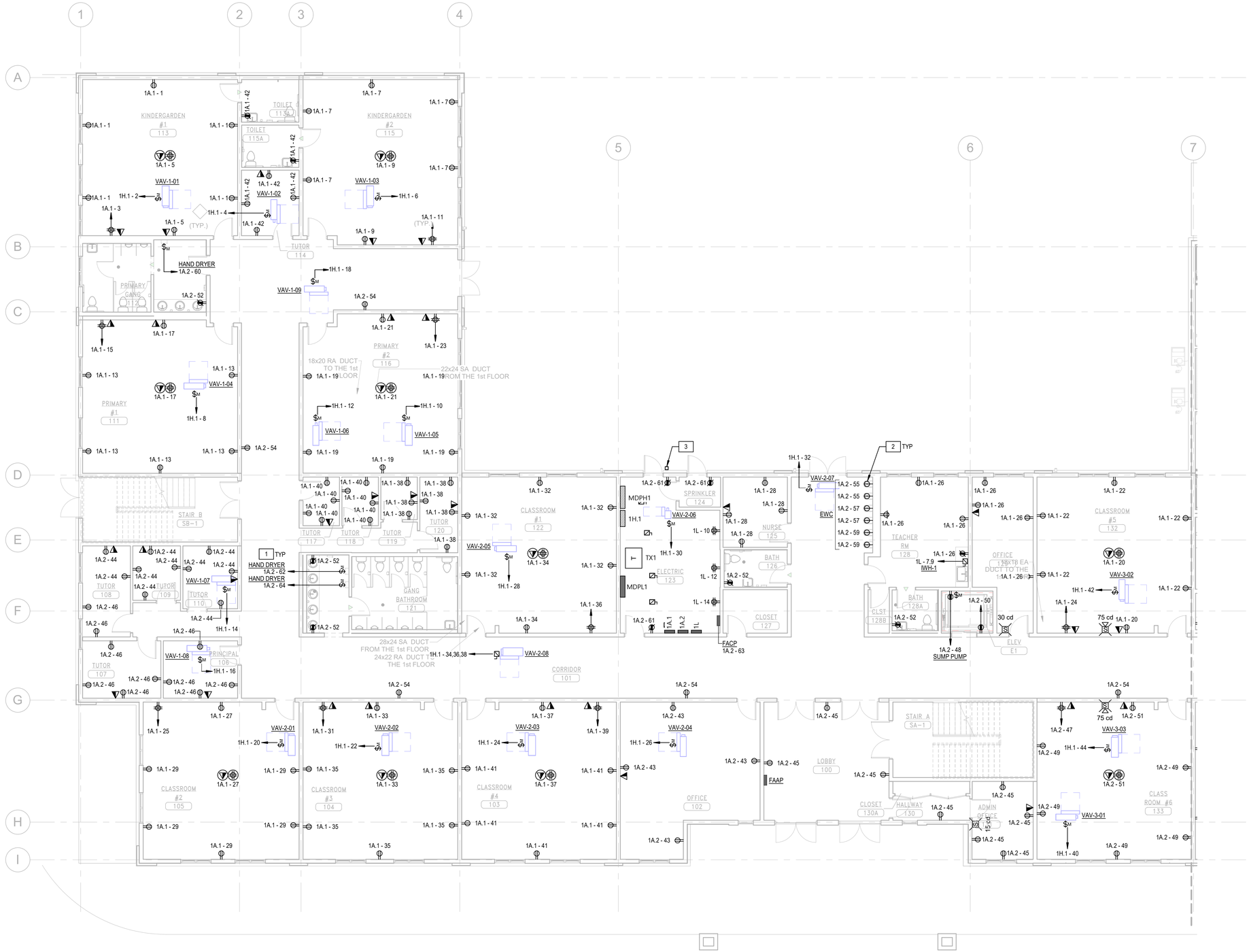
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PE #55008

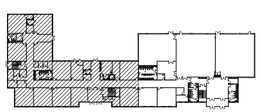
DATE: 03/02/2026
SCALE: As indicated
PROJ. NO. : 250222
DESIGNED BY: DCS
DRAWN BY: DCS
CHECKED BY: DEA
DRAWING NO.: ES102

PLAN NOTES:

1. **HAND DRYER:** PROVIDE RECESSED JUNCTION BOX AND BRANCH CIRCUIT AS SCHEDULED FOR HAND DRYER. PROVIDE 20A, SINGLE-POLE, TOGGLE TYPE DISCONNECT SWITCH WITHIN LINE OF SIGHT PER NEC 422.31(C). COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS AND ADA REQUIREMENTS.
2. **ELECTRIC WATER COOLER:** PROVIDE STANDARD SIMPLEX RECEPTACLE FOR ELECTRIC WATER COOLER. CIRCUIT SHALL BE FED FROM GFCI CIRCUIT BREAKER. REFER TO PANEL SCHEDULES FOR CIRCUIT ASSIGNMENT.
3. **SHUNT TRIP BUTTON:** EMERGENCY POWER OFF (EPO) BUTTON FOR USE BY FIRE DEPARTMENT PERSONNEL. UPON ACTIVATION, BUTTON SHALL INITIATE SHUNT TRIP TO DISCONNECT POWER TO ASSOCIATED ELECTRICAL EQUIPMENT. MOUNT AT 48" AFF. LOCATE BUTTON AT BUILDING ENTRANCE OR AS DIRECTED BY FIRE MARSHAL. PROVIDE PERMANENTLY AFFIXED SIGNAGE READING "EMERGENCY POWER OFF" OR "EPO." BUTTON SHALL BE RED WITH A LOCKABLE COVER TO PREVENT ACCIDENTAL ACTIVATION.



1 1ST FLOOR PLAN - POWER - SIDE A
1/8" = 1'-0"



0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

KEYPLAN
N.T.S

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CONSTRUCTION ENGINEERING GROUP
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LAKEFRONT BOY'S SCHOOL
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DRAWING TITLE
1ST FLOOR PLAN - POWER - SIDE A

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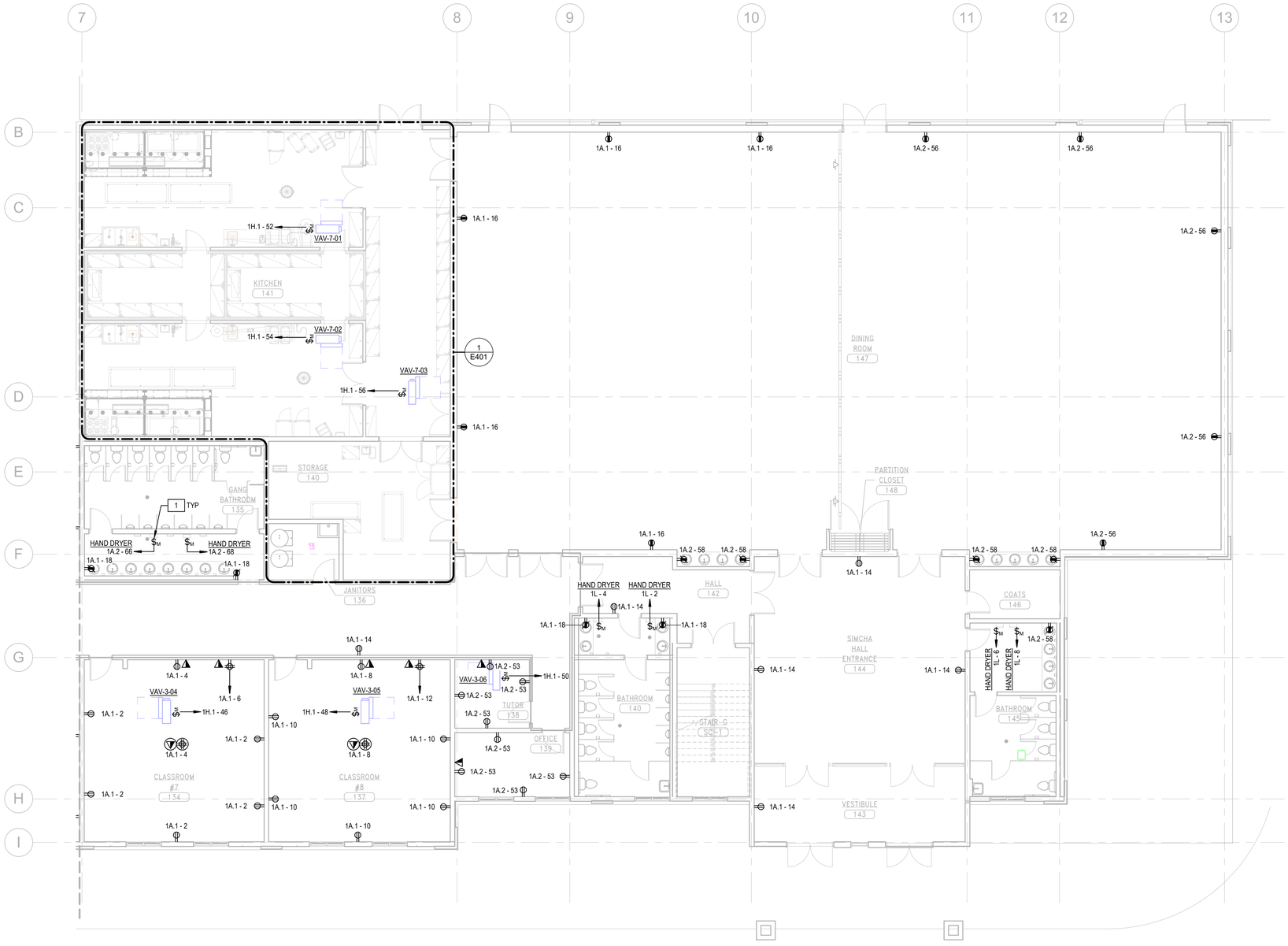
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PE #55008

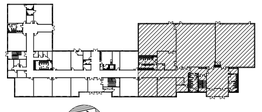
DATE: 03/02/2026
SCALE: As indicated
PROJ. NO. : 250222
DESIGNED BY: DCS
DRAWN BY: DCS
CHECKED BY: DEA
DRAWING NO.: E101

PLAN NOTES:

1 **HAND DRYER:** PROVIDE RECESSED JUNCTION BOX AND BRANCH CIRCUIT AS SCHEDULED FOR HAND DRYER. PROVIDE 20A, SINGLE-POLE, TOGGLE TYPE DISCONNECT SWITCH WITHIN LINE OF SIGHT PER NEC 422.31(C). COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS AND ADA REQUIREMENTS.



1 1ST FLOOR PLAN - POWER - SIDE B
1/8" = 1'-0"



0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

KEYPLAN
N.T.S

REVISION | DATE | REV#

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Consulting Engineers

LAKEFRONT BOY'S SCHOOL

OKEECHOBEE, FL

DRAWING TITLE
1ST FLOOR PLAN - POWER - SIDE B

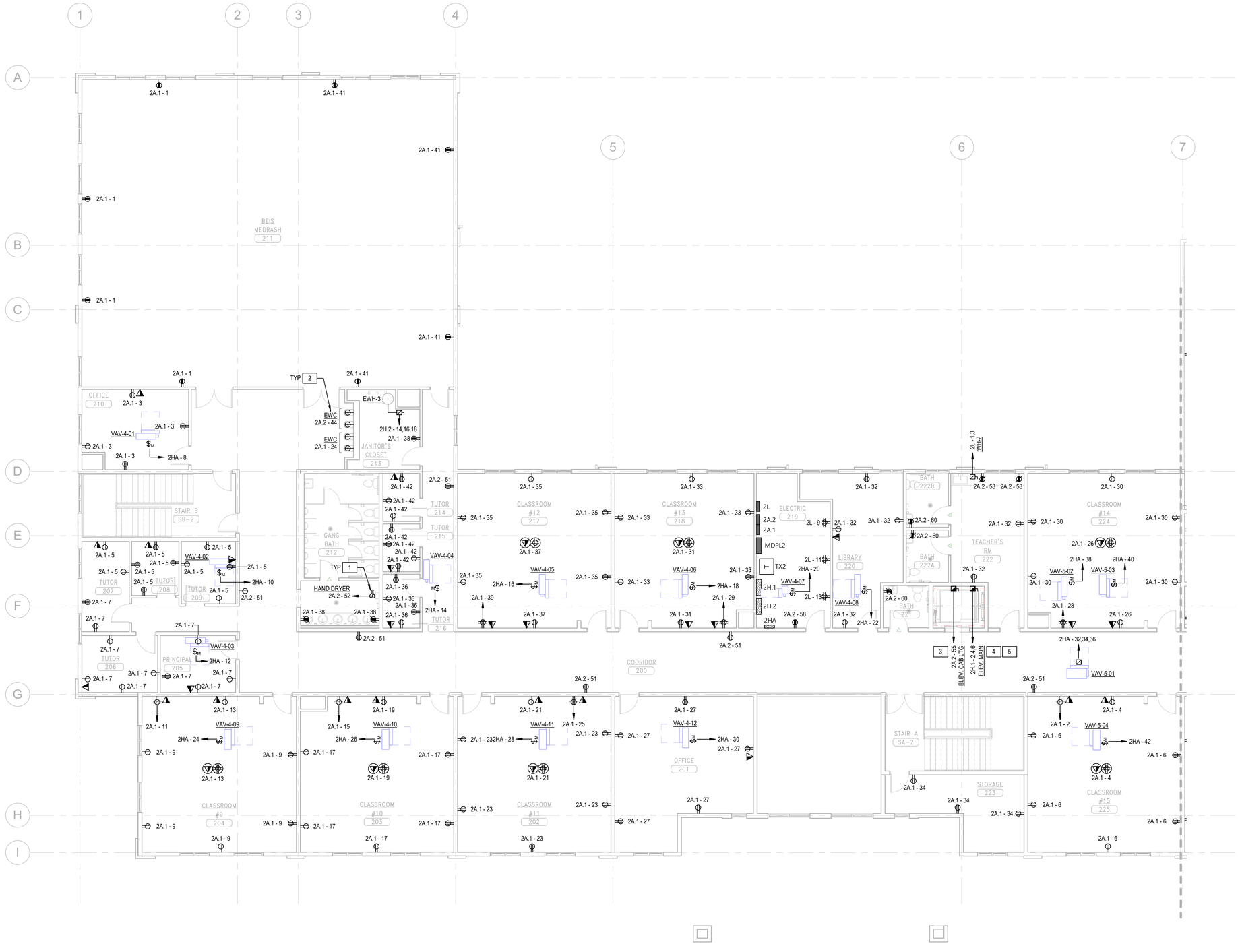
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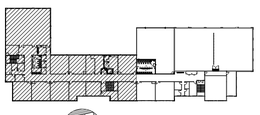
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PE #55008

DATE: 03/02/2026
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1 2ND FLOOR PLAN - POWER - SIDE A

1/8" = 1'-0"



0 4'-0" 8'-0" 16'-0"

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

KEYPLAN N.T.S

ELEVATOR NOTES:

1. **ELEVATOR RECALL RELAYS:** PROVIDE RELAYS FOR ELEVATOR RECALL. COORDINATE WIRING AND INTERFACE REQUIREMENTS WITH ELEVATOR CONTRACTOR AND FIRE ALARM CONTRACTOR.
2. **ELEVATOR PIT AND SHAFT COORDINATION:** COORDINATE MOUNTING LOCATIONS OF ALL ELECTRICAL DEVICES AND FIXTURES IN ELEVATOR PIT AND SHAFT TO AVOID INTERFERENCE WITH ELEVATOR OPERATION. REVIEW ELEVATOR MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGH-IN.
3. **ELEVATOR BRANCH CIRCUIT COORDINATION:** REVIEW ELEVATOR SHOP DRAWINGS AND ADJUST BRANCH CIRCUIT AND DISCONNECT SWITCH SIZES TO MATCH EQUIPMENT PROVIDED. VERIFY ROUGH-IN LOCATIONS PRIOR TO INSTALLATION.
4. **ELEVATOR FUSED DISCONNECTS:** PROVIDE ELEVATOR FUSED DISCONNECTS WITH CLASS R REJECTION CLIPS (TYPICAL).
5. **ELEVATOR CONTROLLER LOCATION:** ELEVATOR CONTROLLER LOCATION SHOWN IS PROPOSED. FIELD VERIFY EXACT LOCATION WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN.
6. **ELEVATOR SHUNT TRIP HEAT DETECTORS:** HEAT DETECTORS IN ELEVATOR MACHINE ROOM AND HOISTWAY SHALL INITIATE SHUNT TRIP TO DISCONNECT ELEVATOR POWER PRIOR TO SPRINKLER ACTIVATION. COORDINATE WITH FIRE ALARM CONTRACTOR.
7. **ELEVATOR CONTROLLER POWER:** PROVIDE 3-POLE, 100A SHUNT TRIP CIRCUIT BREAKER, POWER MODULE DISCONNECT SWITCH (BASIS OF DESIGN: EATON OR APPROVED EQUAL), AND ENCLOSURE FOR ELEVATOR CONTROLLER. FIELD VERIFY CIRCUIT BREAKER SIZE WITH ELEVATOR CONTRACTOR PRIOR TO ORDERING.
8. **ELEVATOR PIT SUMP PUMP:** REVIEW PLUMBING DRAWINGS AND SUMP PUMP SYSTEM SHOP DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS. COORDINATE CIRCUIT AND RECEPTACLE LOCATION WITH PLUMBING CONTRACTOR.

PLAN NOTES:

1. **HAND DRYER:** PROVIDE RECESSED JUNCTION BOX AND BRANCH CIRCUIT AS SCHEDULED FOR HAND DRYER. PROVIDE 20A, SINGLE-POLE, TOGGLE TYPE DISCONNECT SWITCH WITHIN LINE OF SIGHT PER NEC 422.31(C). COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS AND ADA REQUIREMENTS.
2. **ELECTRIC WATER COOLER:** PROVIDE STANDARD SIMPLEX RECEPTACLE FOR ELECTRIC WATER COOLER. CIRCUIT SHALL BE FED FROM GFCI CIRCUIT BREAKER. REFER TO PANEL SCHEDULES FOR CIRCUIT ASSIGNMENT.
3. PROVIDE DISCONNECT SWITCH FOR ELEVATOR CAB LIGHTING .ELEVATOR CAB LIGHTING CIRCUIT SHALL BE INSTALLED WITH MINI-LIGHTING INVERTER.
4. ELEVATOR CONTROLLER SHALL COME INSTALLED WITH EMERGENCY BATTERY BACKUP.
5. PROVIDE BUSSMANN ELEVATOR POWER MODULE, CATALOG NUMBER 'PS-2-T48-R1-K-G-N2-B-F3' OR APPROVED EQUAL. COORDINATE FINAL AMPACITY WITH APPROVED ELEVATOR SHOP DRAWINGS.

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LAKEFRONT BOY'S SCHOOL

OKEECHOBEE, FL

DRAWING TITLE

2ND FLOOR PLAN - POWER - SIDE A

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PE #55008

DATE: 03/02/2026

SCALE: As indicated

PROJ. NO. : 250222

DESIGNED BY: DCS

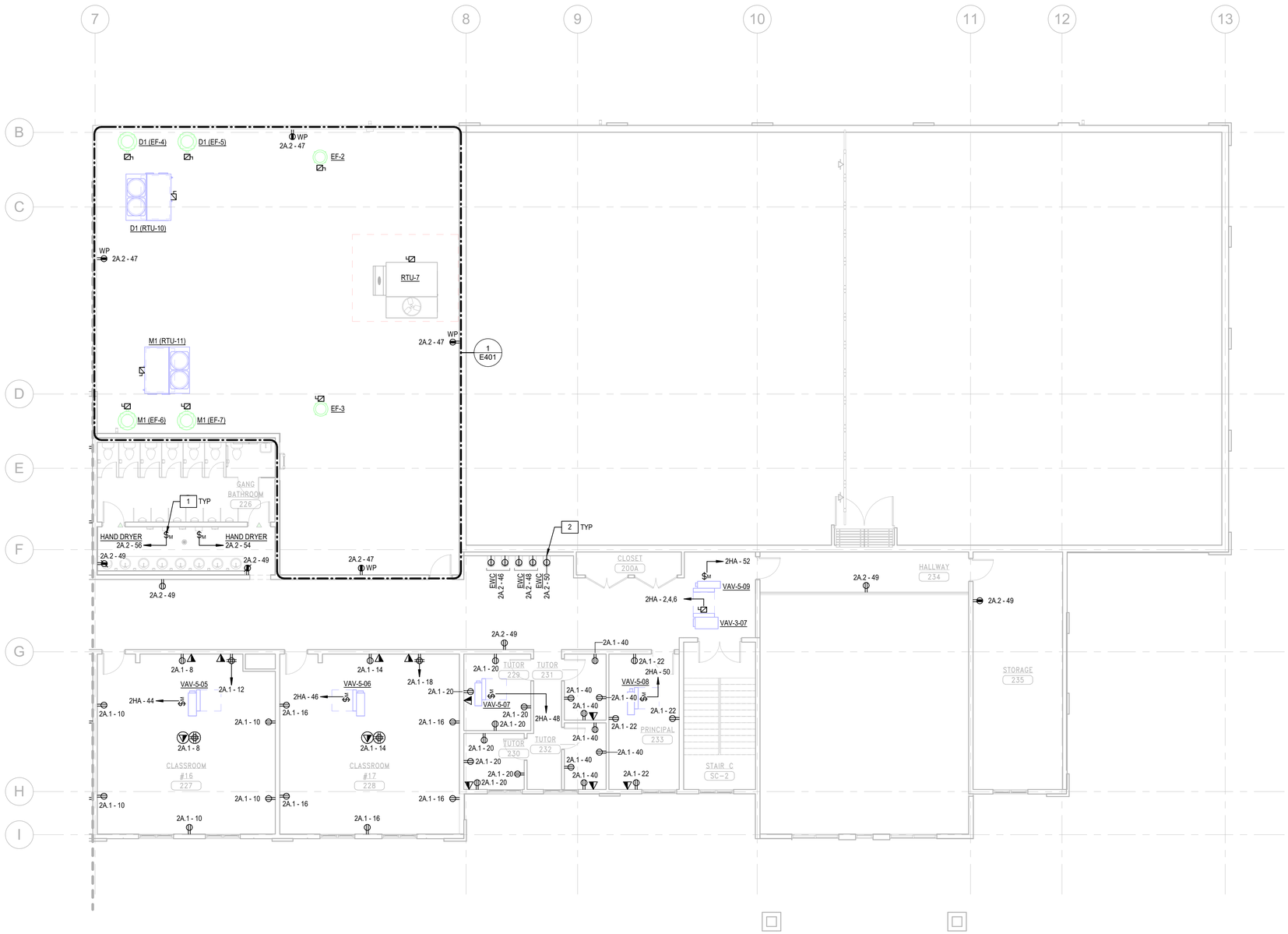
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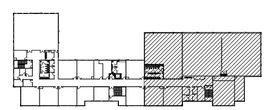
PLAN NOTES:

1. **HAND DRYER:** PROVIDE RECESSED JUNCTION BOX AND BRANCH CIRCUIT AS SCHEDULED FOR HAND DRYER. PROVIDE 20A, SINGLE-POLE, TOGGLE TYPE DISCONNECT SWITCH WITHIN LINE OF SIGHT PER NEC 422.31(C). COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS AND ADA REQUIREMENTS.
2. **ELECTRIC WATER COOLER:** PROVIDE STANDARD SIMPLEX RECEPTACLE FOR ELECTRIC WATER COOLER. CIRCUIT SHALL BE FED FROM GFCI CIRCUIT BREAKER. REFER TO PANEL SCHEDULES FOR CIRCUIT ASSIGNMENT.



1 2ND FLOOR PLAN - POWER - SIDE B

1/8" = 1'-0"



0 4'-0" 8'-0" 16'-0"

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

KEYPLAN N.T.S

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2ND FLOOR PLAN - POWER - SIDE B

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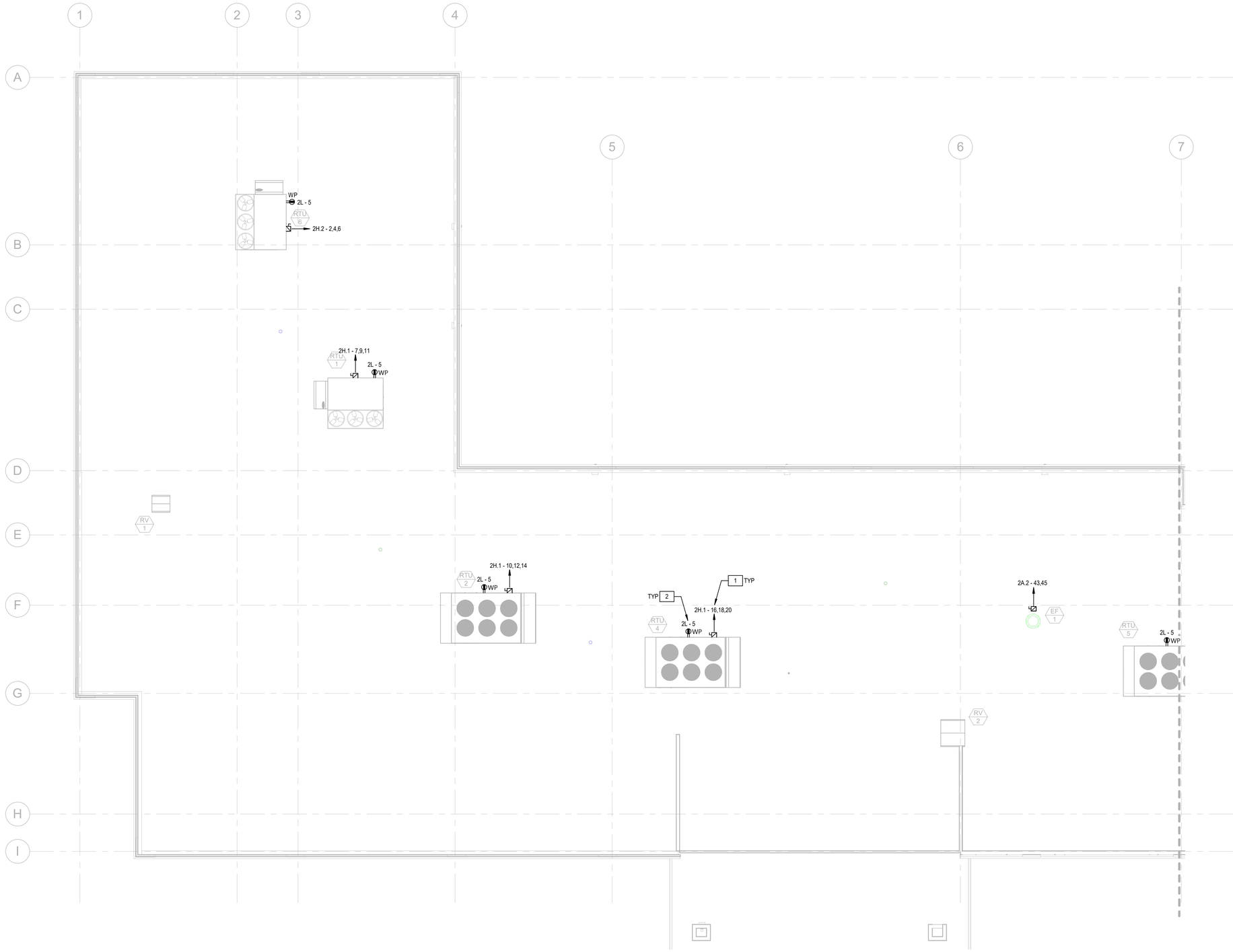
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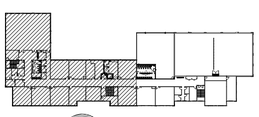
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PLAN NOTES:

1. **ROOFTOP EQUIPMENT CONDUIT ROUTING:** ALL CONDUITS SERVING ROOFTOP MOUNTED EQUIPMENT SHALL CONNECT TO THE EQUIPMENT THROUGH THE EQUIPMENT ROOF CURB.
2. **ROOFTOP RECEPTACLE:** INSTALL ROOFTOP RECEPTACLE BELOW DISCONNECT SWITCH. ROUTE CIRCUIT WITH RTU FEEDER.

1 ROOF PLAN - POWER - SIDE A
1/8" = 1'-0"



KEYPLAN
N.T.S

0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

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ROOF PLAN - POWER - SIDE A

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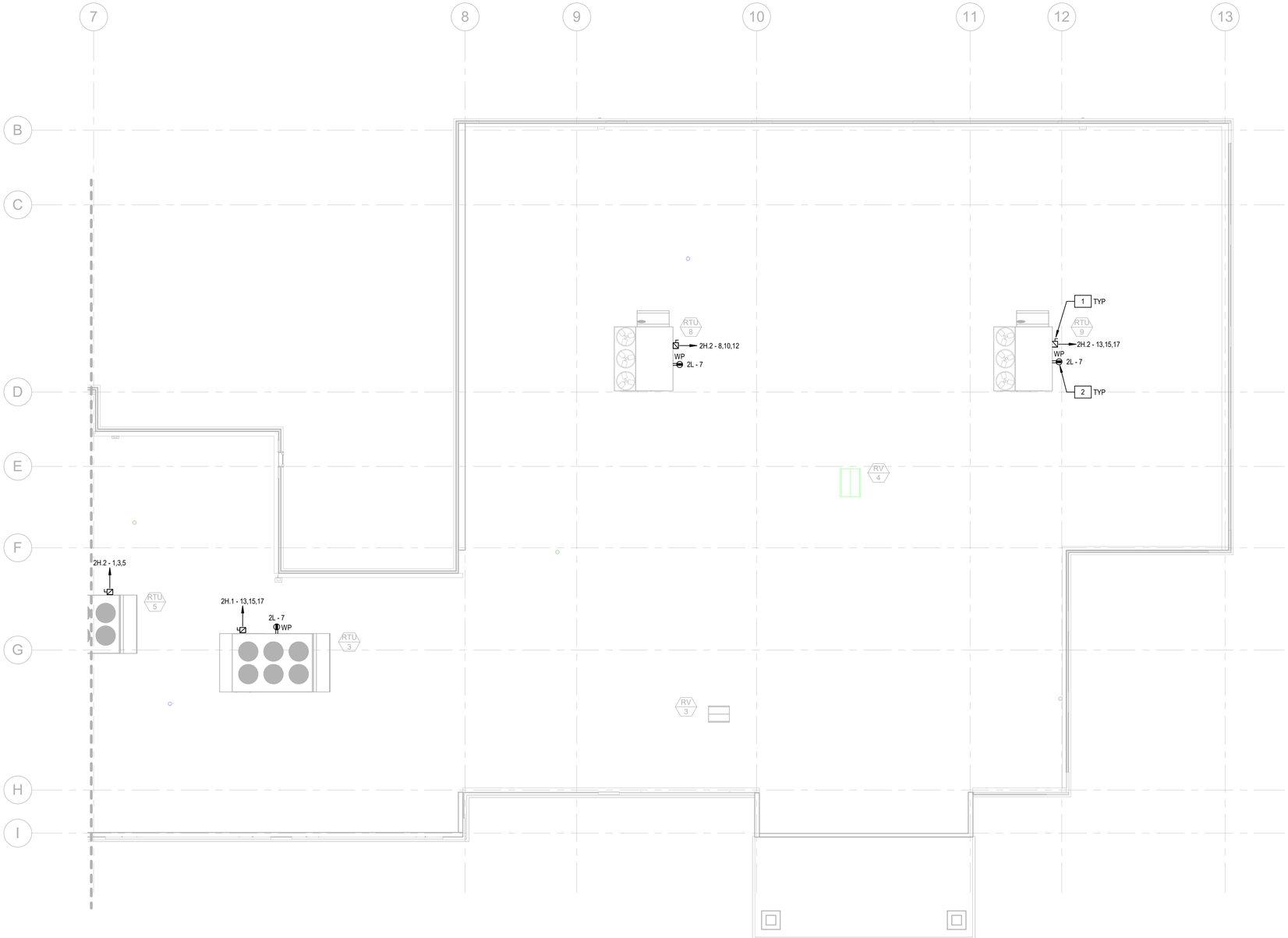
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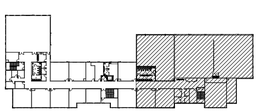
DATE: 03/02/2026
SCALE: As indicated
PROJ. NO. : 250222
DESIGNED BY: DCS
DRAWN BY: DCS
CHECKED BY: DEA
DRAWING NO.: E105

PLAN NOTES:

1. **ROOFTOP EQUIPMENT CONDUIT ROUTING:** ALL CONDUITS SERVING ROOFTOP MOUNTED EQUIPMENT SHALL CONNECT TO THE EQUIPMENT THROUGH THE EQUIPMENT ROOF CURB.
2. **ROOFTOP RECEPTACLE:** INSTALL ROOFTOP RECEPTACLE BELOW DISCONNECT SWITCH. ROUTE CIRCUIT WITH RTU FEEDER.



1 ROOF PLAN - POWER - SIDE B
1/8" = 1'-0"



0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

KEYPLAN
N.T.S

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Consulting Engineers

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OKEECHOBEE, FL

DRAWING TITLE
ROOF PLAN - POWER - SIDE B

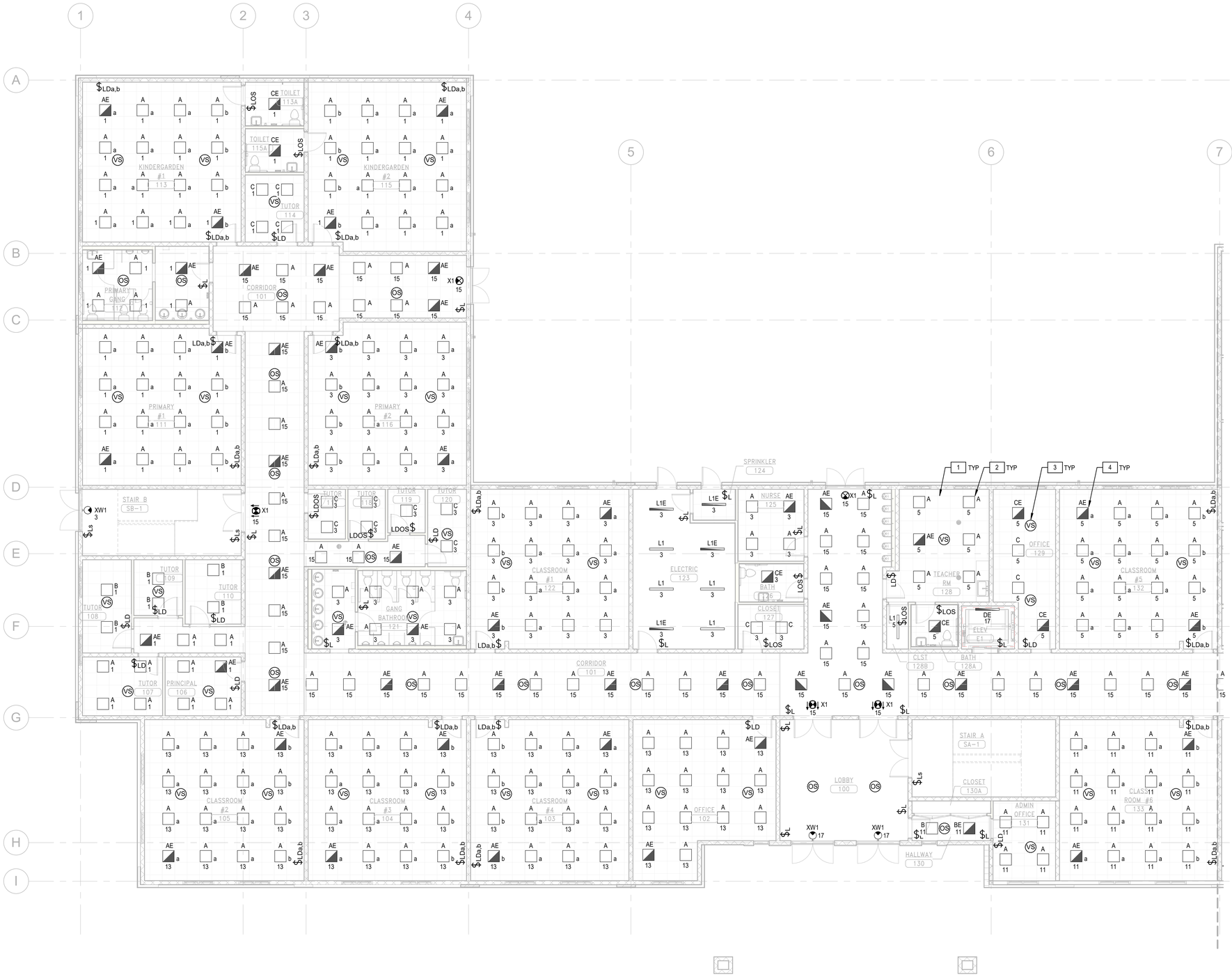
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DATE: 03/02/2026
SCALE: As indicated
PROJ. NO. : 250222
DESIGNED BY: DCS
DRAWN BY: DCS
CHECKED BY: DEA
DRAWING NO.: E106



1 1ST FLOOR PLAN - LIGHTING - SIDE A

1/8" = 1'-0"

GENERAL LIGHTING NOTES:

1. LIGHTING CONTROL REQUIREMENTS FOR EDUCATIONAL FACILITIES PER FLORIDA BUILDING CODE - ENERGY CONSERVATION, 8TH EDITION (2023), SECTION C405.2:

   OCCUPANCY SENSOR CONTROLS REQUIRED (C405.2.1):

   - CLASSROOMS, LECTURE ROOMS, AND TRAINING ROOMS
   - CONFERENCE ROOMS, MEETING ROOMS, AND MULTIPURPOSE ROOMS
   - COPY/PRINT ROOMS
   - LOUNGES AND BREAK ROOMS
   - ENCLOSED OFFICES
   - OPEN PLAN OFFICE AREAS
   - RESTROOMS
   - STORAGE ROOMS
   - LOCKER ROOMS
   - CORRIDORS
   - OTHER ENCLOSED SPACES 300 SF OR LESS

   OCCUPANCY SENSORS SHALL BE MANUAL-ON OR AUTO-ON TO NOT MORE THAN 50% POWER, AUTO-OFF WITHIN 20 MINUTES OF VACANCY, AND SHALL INCLUDE MANUAL-OFF CAPABILITY.

   TIME-SWITCH CONTROLS PERMITTED (C405.2.2):

   - GYMNASIUMS
   - AUDITORIUMS
   - CAFETERIAS AND DINING AREAS
   - LIBRARIES (GENERAL READING AREAS)
   - LOBBIES AND RECEPTION AREAS
   - SHOP AND LABORATORY CLASSROOMS
   - MECHANICAL/ELECTRICAL ROOMS
   - ANY OTHER SPACE NOT LISTED IN C405.2.1

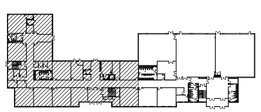
   TIME-SWITCH CONTROLS SHALL INCLUDE 7-DAY PROGRAMMABLE CLOCK, AUTOMATIC HOLIDAY SHUTOFF, MANUAL OVERRIDE (MAXIMUM 2 HOURS), AND MANUAL LIGHT REDUCTION CONTROL.

   NOTE: WHERE RELIGIOUS OBSERVANCES PROHIBIT THE USE OF AUTOMATIC LIGHTING CONTROLS, COORDINATE WITH THE AUTHORITY HAVING JURISDICTION (AHJ) TO REQUEST A VARIANCE FOR MANUAL CONTROL. LIGHTING CONTROL SYSTEM SHALL BE CAPABLE OF DISABLING ALL OCCUPANCY SENSORS FACILITY-WIDE TO ALLOW MANUAL-ONLY OPERATION DURING RELIGIOUS OBSERVANCES.

2. **LIGHTING PANEL ASSIGNMENT:** ALL LIGHTING FIXTURES ON THE 1ST FLOOR SHALL BE POWERED FROM PANEL "1H.1" AND ALL LIGHTING FIXTURES ON THE 2ND FLOOR SHALL BE POWERED FROM PANEL "2H.1" UNLESS OTHERWISE NOTED ON DRAWINGS. REFER TO PANEL SCHEDULES FOR CIRCUIT ASSIGNMENTS.

PLAN NOTES:

1. **LIGHTING POWER PACKS:** PROVIDE LIGHTING POWER PACKS AS REQUIRED TO IMPLEMENT SWITCHING AND DIMMING CONTROLS PER LIGHTING CONTROL DRAWINGS. COORDINATE QUANTITY, LOCATIONS, AND LOAD RATINGS WITH LIGHTING CONTROL SYSTEM DESIGN.
2. **NETWORKED LIGHTING CONTROL SYSTEM:** ALL LIGHTING CIRCUITS SHALL BE MANAGED THROUGH A NETWORKED LIGHTING CONTROL SYSTEM. SYSTEM SHALL PROVIDE CENTRALIZED SCHEDULING, MONITORING, AND OVERRIDE CAPABILITIES. COORDINATE SYSTEM PROGRAMMING AND COMMISSIONING WITH OWNER.
3. **OCCUPANCY SENSOR PLACEMENT:** OCCUPANCY SENSORS SHALL BE POSITIONED TO PROVIDE FULL COVERAGE OF THE CONTROLLED AREA. AVOID OBSTRUCTIONS FROM LIGHTING FIXTURES, HVAC DIFFUSERS, STRUCTURAL ELEMENTS, AND OTHER BUILDING SYSTEMS. VERIFY SENSOR COVERAGE PATTERNS AND MOUNTING HEIGHTS PER MANUFACTURER'S RECOMMENDATIONS.
4. **EMERGENCY BATTERY PACK FIXTURES:** LIGHTING FIXTURE WITH INTEGRAL EMERGENCY BATTERY PACK. PROVIDE SWITCHED CIRCUIT TO NORMAL INPUT AND UNSWITCHED CIRCUIT TO BATTERY PACK INPUT TO MAINTAIN CONTINUOUS CHARGE. UPON LOSS OF NORMAL POWER, FIXTURE SHALL AUTOMATICALLY ILLUMINATE AND PROVIDE MINIMUM 90 MINUTES OF EMERGENCY ILLUMINATION. VERIFY WIRING CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.



0 4'-0" 8'-0" 16'-0"

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

NORTH KEYPLAN N.T.S

REV#	DATE	REVISION

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LAKEFRONT BOY'S SCHOOL
OKEECHOBEE, FL

DRAWING TITLE
1ST FLOOR PLAN - LIGHTING - SIDE A

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ENGINEER OF RECORD

PRELIMINARY NOT FOR CONSTRUCTION

DAVID E. ALLEY, PE
PE #55008

DATE: 03/02/2026

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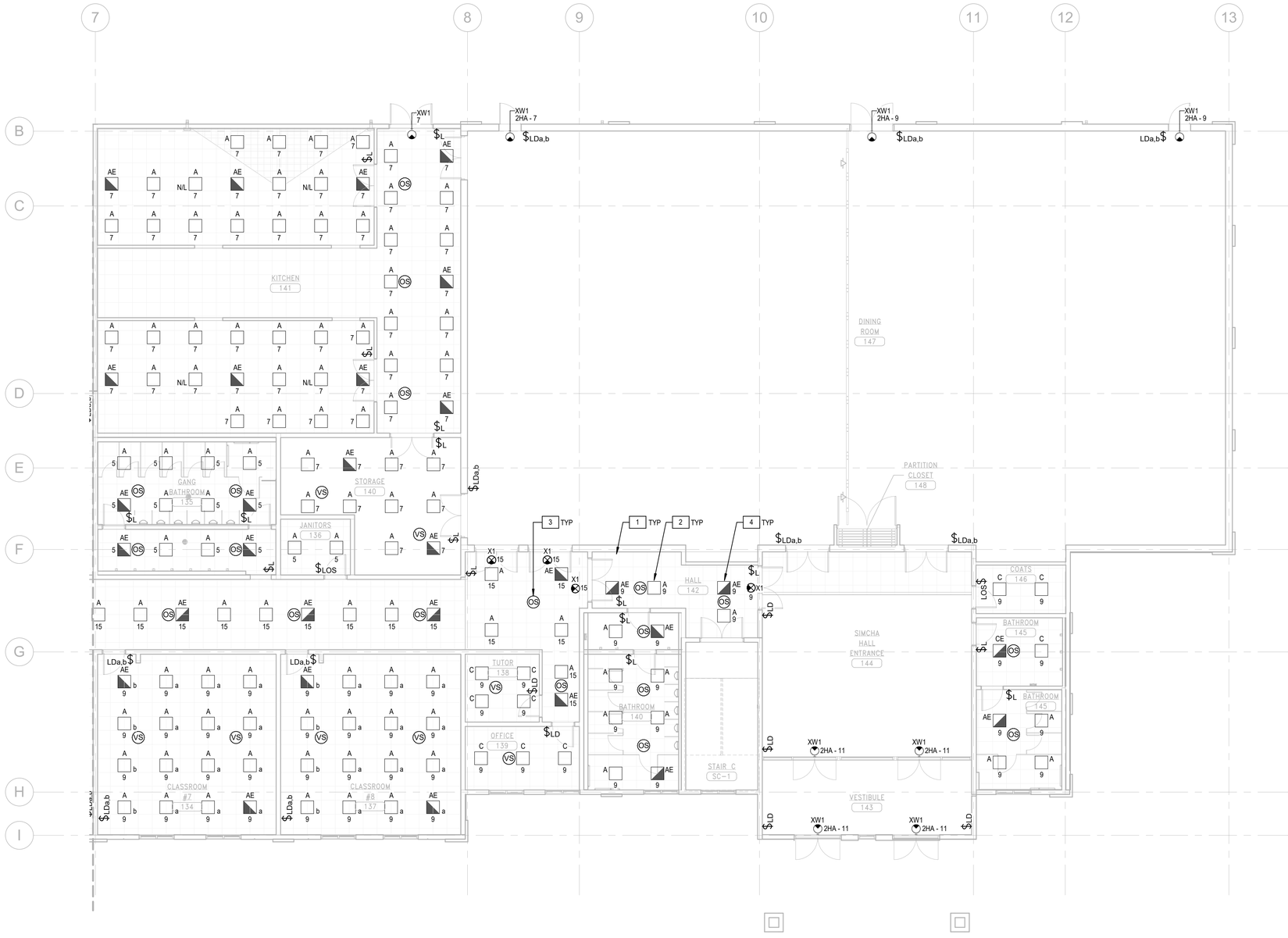
PROJ. NO. : 250222

DESIGNED BY: DCS

DRAWN BY: DCS

CHECKED BY: DEA

DRAWING NO.: E111



1 1ST FLOOR PLAN - LIGHTING - SIDE B

1/8" = 1'-0"

GENERAL LIGHTING NOTES:

1. LIGHTING CONTROL REQUIREMENTS FOR EDUCATIONAL FACILITIES PER FLORIDA BUILDING CODE - ENERGY CONSERVATION, 8TH EDITION (2023), SECTION C405.2:

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   - OPEN PLAN OFFICE AREAS
   - RESTROOMS
   - STORAGE ROOMS
   - LOCKER ROOMS
   - CORRIDORS
   - OTHER ENCLOSED SPACES 300 SF OR LESS

   OCCUPANCY SENSORS SHALL BE MANUAL-ON OR AUTO-ON TO NOT MORE THAN 50% POWER, AUTO-OFF WITHIN 20 MINUTES OF VACANCY, AND SHALL INCLUDE MANUAL-OFF CAPABILITY.

   TIME-SWITCH CONTROLS PERMITTED (C405.2.2):

   - GYMNASIUMS
   - AUDITORIUMS
   - CAFETERIAS AND DINING AREAS
   - LIBRARIES (GENERAL READING AREAS)
   - LOBBIES AND RECEPTION AREAS
   - SHOP AND LABORATORY CLASSROOMS
   - MECHANICAL/ELECTRICAL ROOMS
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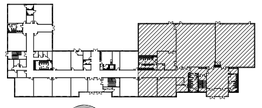
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KEYPLAN N.T.S

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LAKEFRONT BOY'S SCHOOL

OKEECHOBEE, FL

DRAWING TITLE: 1ST FLOOR PLAN - LIGHTING - SIDE B

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PE #55008

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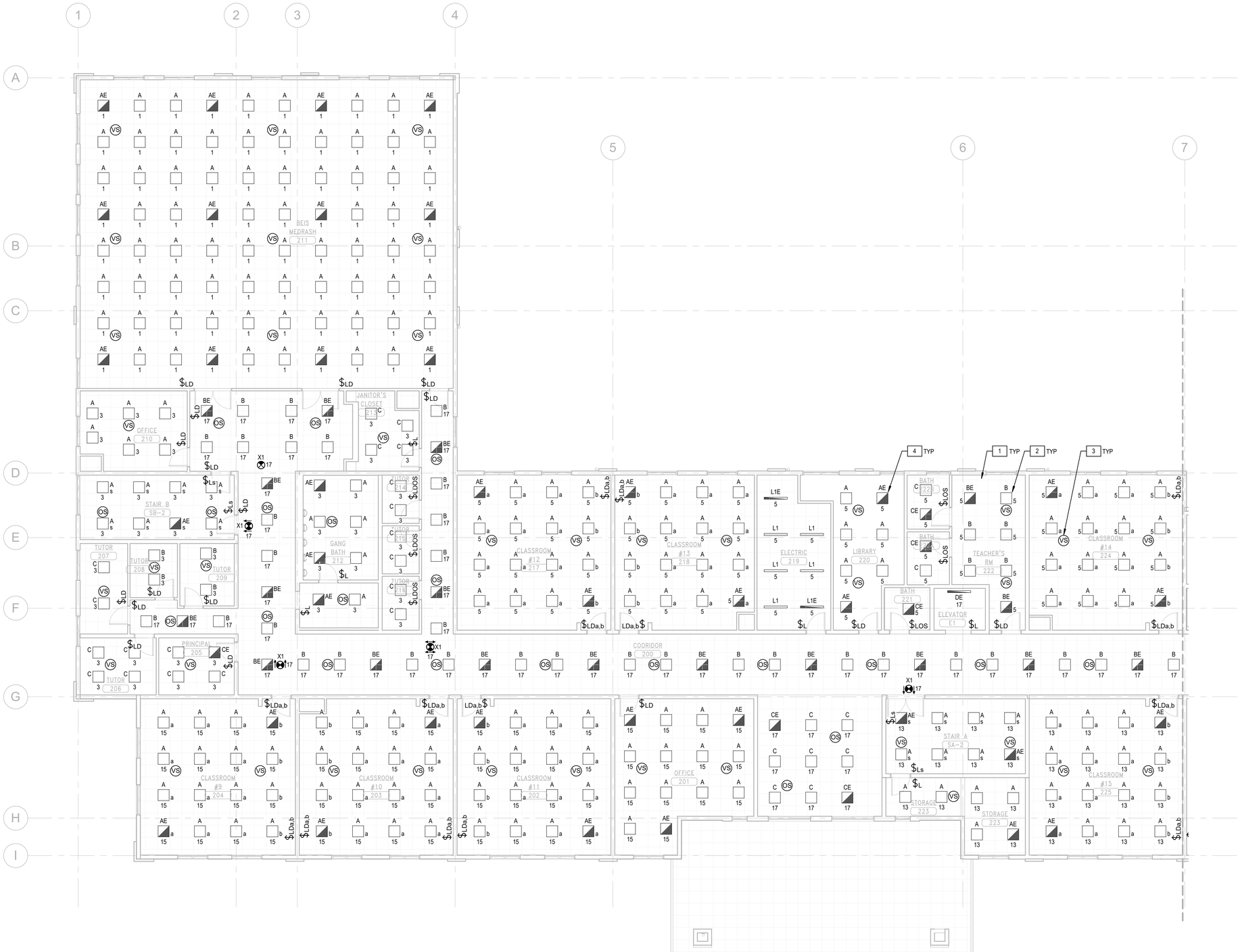
PROJ. NO. : 250222

DESIGNED BY: DCS

DRAWN BY: DCS

CHECKED BY: DEA

DRAWING NO.: E112



1 2ND FLOOR PLAN - LIGHTING - SIDE A

1/8" = 1'-0"

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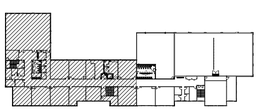
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0 4'-0" 8'-0" 16'-0"

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

KEYPLAN
N.T.S

REV#	DATE	REVISION

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LAKEFRONT BOY'S SCHOOL
OKEECHOBEE, FL

DRAWING TITLE
2ND FLOOR PLAN - LIGHTING - SIDE A

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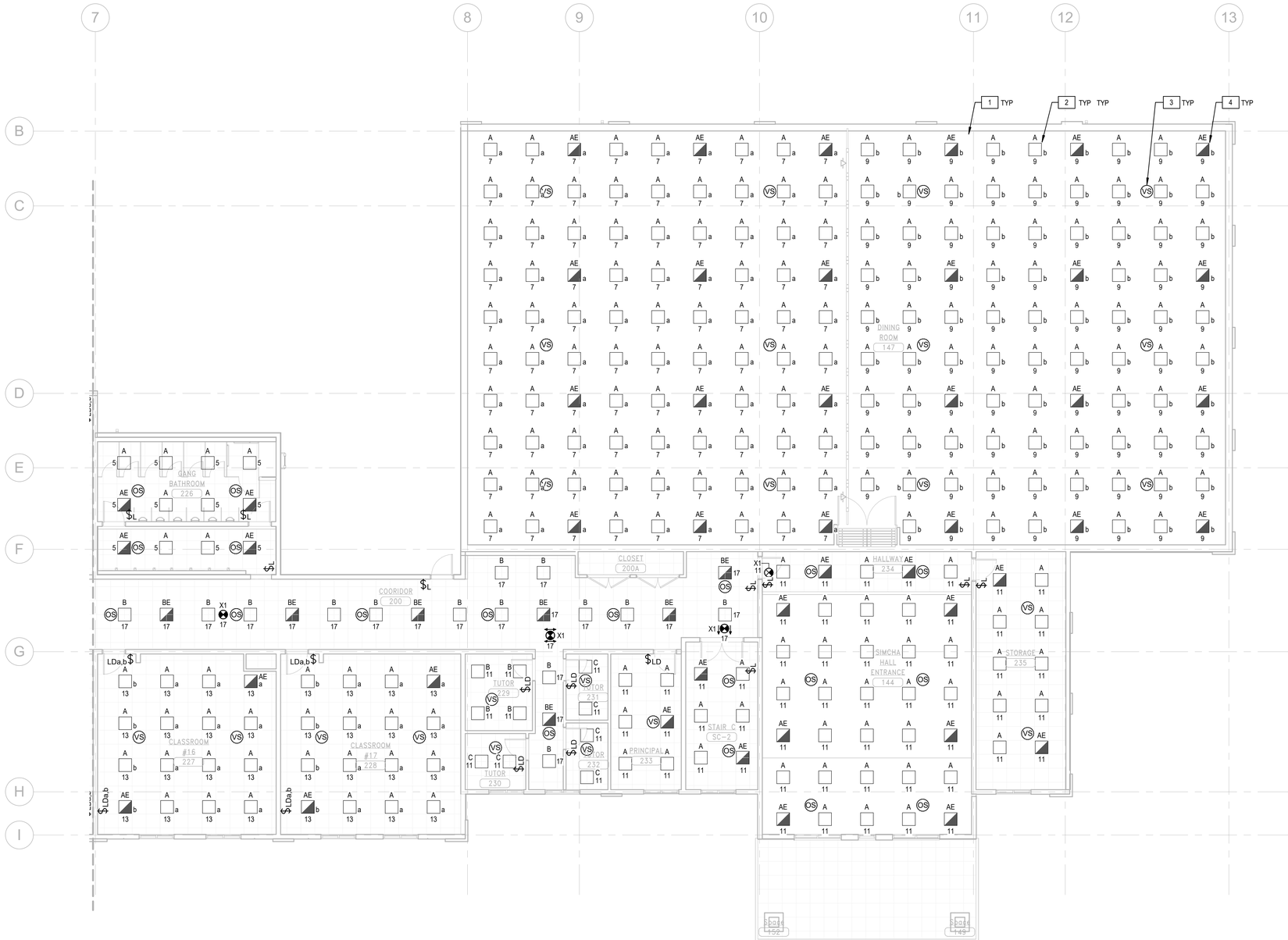
PROJ. NO. : 250222

DESIGNED BY: DCS

DRAWN BY: DCS

CHECKED BY: DEA

DRAWING NO.: E113



1 2ND FLOOR PLAN - LIGHTING - SIDE B

1/8" = 1'-0"

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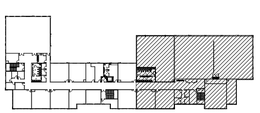
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KEYPLAN
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REVISION | DATE | REV#

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DRAWING TITLE
2ND FLOOR PLAN - LIGHTING - SIDE B

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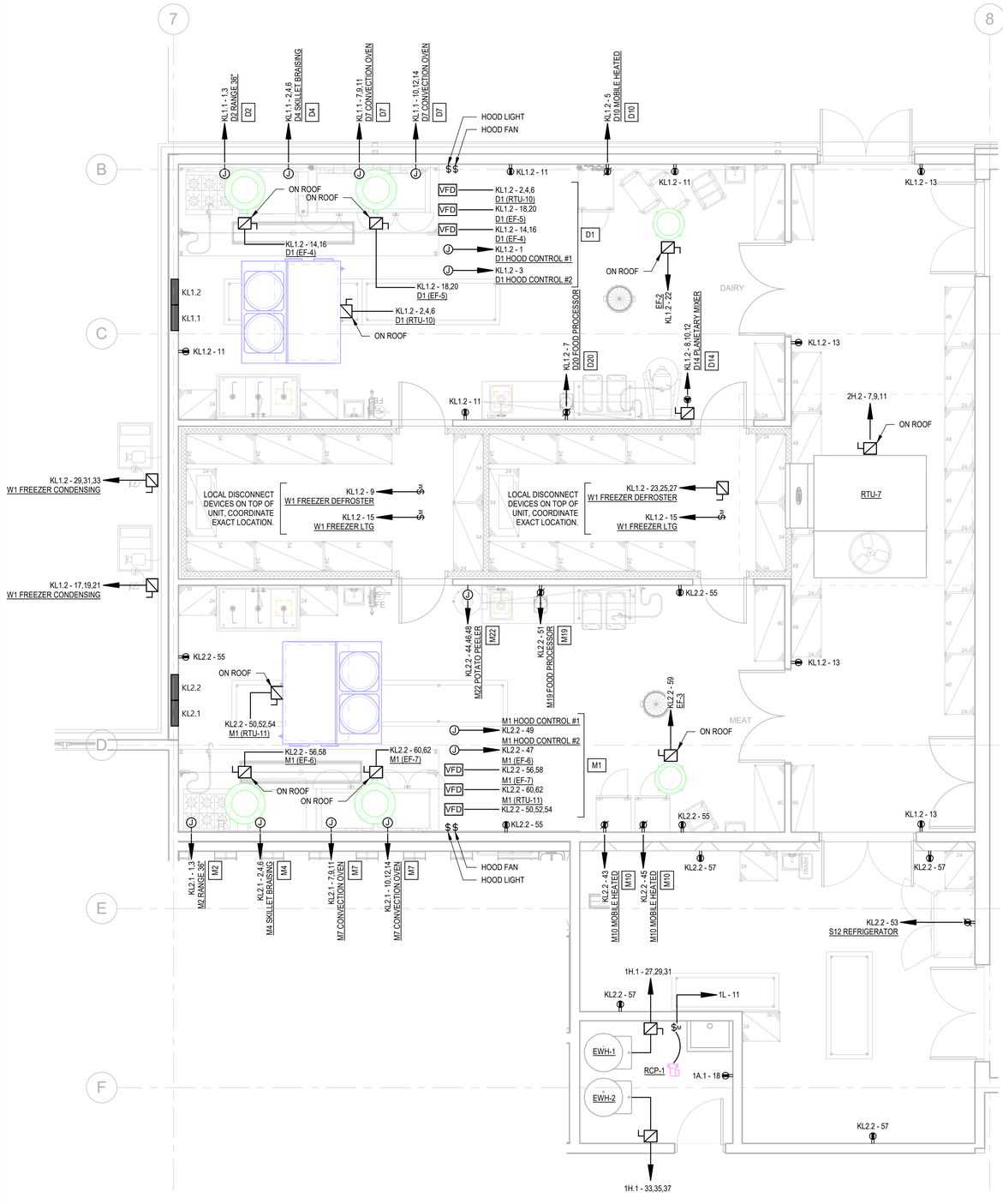
PROJ. NO.: 250222

DESIGNED BY: DCS

DRAWN BY: DCS

CHECKED BY: DEA

DRAWING NO.: E114



1 ENLARGED PLAN - POWER - KITCHEN

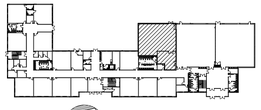
1/4" = 1'-0"

KITCHEN GENERAL NOTES

1. **KITCHEN ELECTRICAL - GENERAL:** ALL CONNECTIONS AND ELECTRICAL EQUIPMENT INDICATED ON THESE DRAWINGS SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
2. **KITCHEN EQUIPMENT COORDINATION:** THE ELECTRICAL CONTRACTOR SHALL VERIFY EXACT DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH THE EQUIPMENT SUPPLIER AND FOOD SERVICE CONSULTANT PRIOR TO ROUGH-IN. UPON COMPLETION OF THE PROJECT, ALL EQUIPMENT LISTED IN THE KITCHEN EQUIPMENT SCHEDULE SHALL BE FULLY OPERATIONAL. THE ELECTRICAL CONTRACTOR SHALL TEST ALL ELECTRICAL CONNECTIONS AND EQUIPMENT UPON INSTALLATION TO CONFIRM PROPER OPERATION.
3. **KITCHEN DEVICE LOCATIONS:** ALL DEVICES SHOWN WITHIN THE KITCHEN AREA HAVE BEEN LOCATED IN ACCORDANCE WITH THE FOOD SERVICE CONSULTANT'S PLANS. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL CONNECTION REQUIREMENTS WITH THE EQUIPMENT SUPPLIER AND THE FOOD SERVICE CONSULTANT'S PLANS PRIOR TO ROUGH-IN.
4. **MECHANICAL COORDINATION:** REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ALL REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTIONS OF INTERLOCKING CONTROLS, THERMOSTAT LOCATIONS, EXHAUST FAN CONTROL SWITCHES, AND OTHER MECHANICAL EQUIPMENT CONTROLS.
5. **KITCHEN RECEPTACLES:** PROVIDE RECEPTACLES IN THE NEMA CONFIGURATION REQUIRED BY THE CORD(S) AND PLUG(S) FURNISHED WITH EACH PIECE OF EQUIPMENT. WHERE EQUIPMENT REQUIRING A CORD-AND-PLUG CONNECTION IS NOT SUPPLIED WITH ONE BY THE MANUFACTURER, THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL THE APPROPRIATE CORD AND PLUG.
6. **SPECIAL OUTLETS:** WHERE SPECIAL OUTLETS ARE INDICATED ON THE DRAWINGS, THE ELECTRICAL CONTRACTOR SHALL VERIFY EXACT OUTLET REQUIREMENTS WITH THE EQUIPMENT SUPPLIER PRIOR TO INSTALLATION TO ENSURE THAT THE SPECIFIED DEVICE MATCHES THE PLUG CONFIGURATION PROVIDED WITH THE EQUIPMENT.
7. **KITCHEN COVER PLATES:** PROVIDE STAINLESS STEEL COVER PLATES WITH WEATHERPROOF (WP) GASKETS ON ALL OUTLETS AND JUNCTION BOXES LOCATED WITHIN THE KITCHEN AREA.
8. **KITCHEN EQUIPMENT CONNECTIONS:** ALL EQUIPMENT DESIGNATED FOR DIRECT CONNECTION VIA JUNCTION BOX SHALL BE CONNECTED USING LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT (LFMC). PROVIDE STAINLESS STEEL COVER PLATES ON ALL JUNCTION BOXES.
9. **KITCHEN GFCI PROTECTION:** ALL 120V, 15A AND 20A RECEPTACLES LOCATED WITHIN THE KITCHEN, WITHIN 6 FEET OF A SINK, AT EXTERIOR LOCATIONS, AND AS OTHERWISE REQUIRED BY THE NEC AND INDICATED ON THE DRAWINGS, SHALL BE PROVIDED WITH GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION (CLASS A, 5mA TRIP) FOR PERSONNEL PROTECTION. FEED-THROUGH GFCI RECEPTACLES OR GFCI CIRCUIT BREAKERS MAY BE UTILIZED TO PROTECT DOWNSTREAM RECEPTACLES ON THE SAME CIRCUIT WHEN WIRED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PRIOR TO FINAL INSPECTION, THE ELECTRICAL CONTRACTOR SHALL PERFORM A GROUND-FAULT TEST ON EACH PROTECTED RECEPTACLE AND SUBMIT A WRITTEN LOG OF ALL RECEPTACLES TESTED, INCLUDING RESULTS, TO THE OWNER. RECEPTACLES PROTECTED BY AN UPSTREAM FEED-THROUGH GFCI DEVICE OR GFCI BREAKER SHALL BE LABELED "GFCI PROTECTED."
10. **EXHAUST FAN AND MAKEUP AIR INTERLOCK:** EXHAUST FAN(S) (EF-) SHALL BE INTERLOCKED WITH THE ASSOCIATED MAKEUP AIR UNIT(S) (MAU-). UPON ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM OR THE HOOD FIRE SUPPRESSION SYSTEM, THE MAKEUP AIR FAN SHALL SHUT DOWN AND THE EXHAUST FAN SHALL REMAIN IN OPERATION. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONTACTORS, RELAYS, CONDUIT, AND WIRING AS REQUIRED FOR COMPLETE INTERLOCK OPERATION OF THE EXHAUST FAN AND MAKEUP AIR SYSTEMS AS DESCRIBED HEREIN.
11. **HOOD FIRE SUPPRESSION INTERLOCK:** THE ELECTRICAL CONTRACTOR SHALL PROVIDE INTERCONNECTION FROM THE FIRE SUPPRESSION SYSTEM MICRO-SWITCH (FURNISHED BY THE FIRE SUPPRESSION CONTRACTOR) TO SHUNT TRIP BRANCH CIRCUIT BREAKERS FOR ALL ELECTRICAL COOKING EQUIPMENT SERVED BENEATH THE KITCHEN EXHAUST HOOD. WIRE ALL SHUNT TRIP COILS IN PARALLEL TO THE FIRE SUPPRESSION SYSTEM DRY CONTACTS SUCH THAT ACTIVATION OF THE FIRE SUPPRESSION SYSTEM SIMULTANEOUSLY DISCONNECTS ALL COOKING EQUIPMENT CIRCUITS PER NFPA 96.
12. **GARBAGE DISPOSAL:** ALL SWITCHES, SOLENOIDS, AND CONTROLS REQUIRED FOR GARBAGE DISPOSAL OPERATION SHALL BE PROVIDED. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL SWITCHES, CONTROLS, AND CONDUITS AS DIRECTED BY THE DISPOSAL MANUFACTURER AND SHALL PROVIDE ALL ELECTRICAL CONNECTIONS AS REQUIRED FOR COMPLETE OPERATION.
13. **DISHWASHER EXHAUST FAN INTERLOCK:** THE ELECTRICAL CONTRACTOR SHALL INTERLOCK THE DISHWASHER EXHAUST FAN WITH THE DISHWASHER SUCH THAT THE EXHAUST FAN OPERATES WHENEVER THE DISHWASHER IS IN OPERATION. PROVIDE AND INSTALL A 20-MINUTE TIME-DELAY RELAY TO CONTINUE EXHAUST FAN OPERATION FOR 20 MINUTES AFTER THE DISHWASHER HAS SHUT DOWN. THE DISHWASHER SHALL BE PROVIDED WITH AN INTERLOCK RELAY FOR THE EXHAUST FAN.
14. **WALK-IN COOLERS AND FREEZERS:** THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ELECTRICAL CONNECTIONS TO WALK-IN COOLERS AND FREEZERS AS REQUIRED BY THE MANUFACTURER, INCLUDING BUT NOT LIMITED TO: EVAPORATORS, CONDENSING UNITS, DOOR HEATERS, CONTROL WIRING, CONDUITS, AND SWITCHES. ALL ELECTRICAL CONDUIT SHALL BE ROUTED ON THE EXTERIOR OF THE WALK-IN ENCLOSURE WITH VAPOR-TIGHT SEALS AT ALL PENETRATIONS. ALL DISCONNECTING MEANS FOR EVAPORATORS AND FAN COIL UNITS SHALL BE LOCATED ON THE EXTERIOR OF THE WALK-IN ENCLOSURE. THE ELECTRICAL CONTRACTOR SHALL FIELD-VERIFY ALL CONNECTION LOCATIONS AND REQUIREMENTS PRIOR TO INSTALLATION.

KITCHEN EQUIPMENT COORDINATION SCHEDULE

PANEL	CKT	LOAD NAME	RATING	APPARENT CURRENT	APPARENT LOAD	VOLTAGE	POLES	INTEGRAL DISCONNECT	INTEGRAL VFD	DISCONNECT PROVIDED BY ELEC.	JUNCTION BOX HARDWIRED CONNECTION	NEMA RECEPTACLE TYPE	SWITCH SIZE	FUSE SIZE	NEMA RATING	NOTES
KL1.2	14,16	D1 (EF-4) RM ROOF KITCH. ROOF	15 A	7 A	1456 VA	208 V	2	YES								
KL1.2	18,20	D1 (EF-5) RM ROOF KITCH. ROOF	15 A	7 A	1456 VA	208 V	2	YES								
KL1.2	2,4,6	D1 (RTU-10) KITCH. ROOF	60 A	50 A	18014 VA	208 V	3		YES (INTEGRAL WITH UNIT)	YES (ON ROOF)					3R	
KL1.2	1	D1 HOOD CONTROL #1 RM 141	20 A	5 A	600 VA	120 V	1	YES								
KL1.2	3	D1 HOOD CONTROL #2 RM 141	20 A	5 A	600 VA	120 V	1	YES								
KL1.1	1,3	D2 RANGE 36" RM 141	100 A	83 A	17300 VA	208 V	2				YES					
KL1.1	2,4,6	D4 SKILLET BRAISING RM 141	125 A	48 A	17300 VA	208 V	3				YES					
KL1.1	7,9,11	D7 CONVECTION OVEN RM 141	90 A	67 A	24000 VA	208 V	3				YES					
KL1.1	10,12,14	D7 CONVECTION OVEN RM 141	90 A	67 A	24000 VA	208 V	3				YES					
KL1.2	5	D10 MOBILE HEATED RM 141	20 A	12 A	1470 VA	120 V	1					NEMA 5-20R			1	
KL1.2	8,10,12	D14 PLANETARY MIXER RM 141	15 A	12 A	4323 VA	208 V	3			YES		NEMA L15-20R	30 AR	NF	4X	
KL1.2	7	D20 FOOD PROCESSOR RM 141	15 A	7 A	840 VA	120 V	1					NEMA 5-20R			1	
1H.1	27,29,31	EWH-1 JANITORS 136	45 A	36 A	30013 VA	480 V	3			YES			30 AR	NF	1	
1H.1	33,35,37	EWH-2 JANITORS 136	45 A	36 A	30013 VA	480 V	3			YES			30 AR	NF	1	
KL2.2	56,58	M1 (EF-6) RM ROOF KITCH. ROOF	15 A	7 A	1456 VA	208 V	2	YES								
KL2.2	60,62	M1 (EF-7) RM ROOF KITCH. ROOF	15 A	7 A	1456 VA	208 V	2	YES								
KL2.2	50,52,54	M1 (RTU-11) KITCH. ROOF	60 A	50 A	18014 VA	208 V	3		YES (INTEGRAL WITH UNIT)	YES (ON ROOF)					3R	
KL2.2	49	M1 HOOD CONTROL #1 RM 141	20 A	5 A	600 VA	120 V	1	YES								
KL2.2	47	M1 HOOD CONTROL #2 RM 141	20 A	5 A	600 VA	120 V	1	YES								
KL2.1	1,3	M2 RANGE 36" RM 141	100 A	83 A	17300 VA	208 V	2				YES					
KL2.1	2,4,6	M4 SKILLET BRAISING RM 141	125 A	48 A	17300 VA	208 V	3				YES					
KL2.1	7,9,11	M7 CONVECTION OVEN RM 141	90 A	67 A	24000 VA	208 V	3				YES					
KL2.1	10,12,14	M7 CONVECTION OVEN RM 141	90 A	67 A	24000 VA	208 V	3				YES					
KL2.2	43	M10 MOBILE HEATED RM 140	20 A	12 A	1470 VA	120 V	1					NEMA 5-20R			1	
KL2.2	45	M10 MOBILE HEATED RM 140	20 A	12 A	1470 VA	120 V	1					NEMA 5-20R			1	
KL2.2	51	M19 FOOD PROCESSOR RM 141	15 A	7 A	840 VA	120 V	1					NEMA 5-20R			1	
KL2.2	44,46,48	M22 POTATO PEELER RM 141	15 A	5 A	1730 VA	208 V	3				YES					
1L	11	RCP-1 JANITORS 136	20 A	5 A	600 VA	120 V	1			YES			30 AR	NF	1	
2H.2	7,9,11	RTU-7 RM KITCH. ROOF	45 A	33 A	27436 VA	480 V	3			YES			60 AR	NF	3R	
KL2.2	53	S12 REFRIGERATOR RM 140	15 A	3 A	384 VA	120 V	1					NEMA 5-20R			1	
KL1.2	9	W1 DEFROSTER RM 141	20 A	3 A	360 VA	120 V	1			YES			30 AR	NF		
KL1.2	17,19,21	W1 FREEZER CONDENSING	35 A	25 A	8935 VA	208 V	3			YES			60 AR	NF	3R	
KL1.2	29,31,33	W1 FREEZER CONDENSING	30 A	20 A	7205 VA	208 V	3			YES			30 AR	NF	3R	
KL1.2	23,25,27	W1 FREEZER DEFROSTER RM 141	20 A	11 A	3891 VA	208 V	3			YES			30 AR	NF	1	



0 2'-0" 4'-0" 8'-0"

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

KEYPLAN N.T.S

REV#	DATE	REVISION

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LAKEFRONT BOY'S SCHOOL

OKEECHOBEE, FL

DRAWING TITLE: ENLARGED PLAN - POWER - KITCHEN

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ENGINEER OF RECORD

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DAVID E. ALLEY, PE
PE #55008

DATE: 03/02/2026

SCALE: As indicated

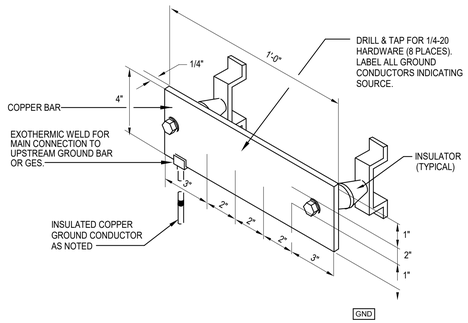
PROJ. NO. : 250222

DESIGNED BY: DCS

DRAWN BY: DCS

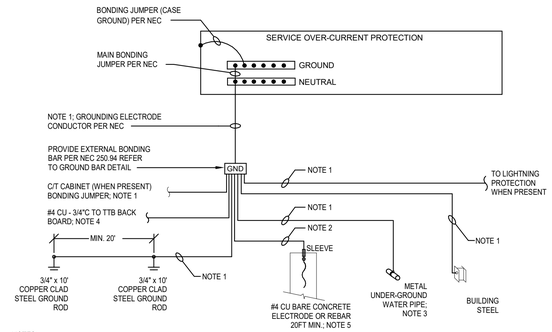
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GROUND BAR DETAIL

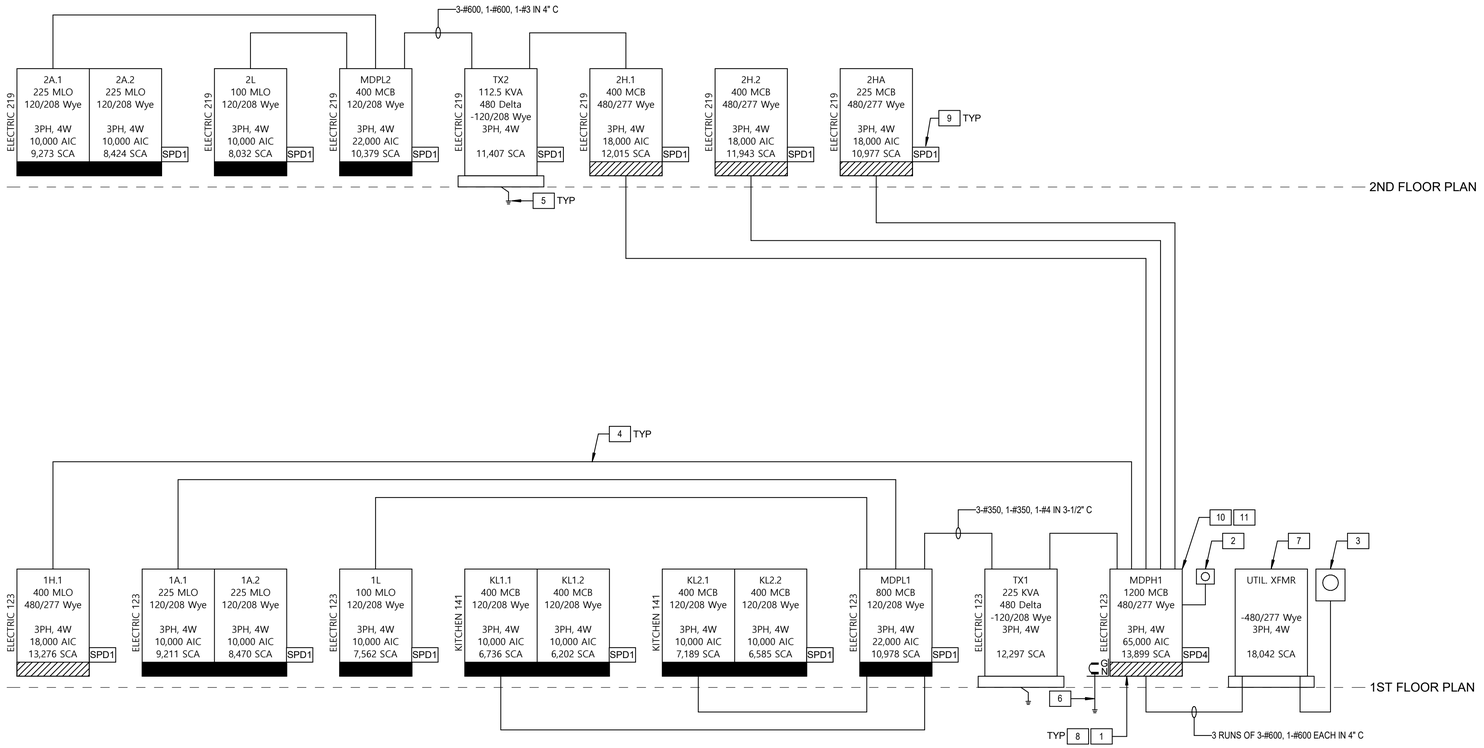
N.T.S.



NOTES:
1. REFER TO SINGLE-LINE/RISER DIAGRAM FOR SIZE.
2. MINIMUM #4 CU - 1"C.
3. PROVIDE CU JUMPER CABLE ACROSS WATER METER.
4. PROVIDE AN EQUIPMENT GROUND BAR AT THE MAIN TELECOM BOARD.
5. MINIMUM 2" OF CONCRETE COVER & MINIMUM 1/2" REBAR.

MAIN SERVICE ENTRANCE GROUND DETAIL

N.T.S.



1 ELECTRICAL RISER DIAGRAM

N/A

PLAN NOTES:

1. **AVAILABLE FAULT CURRENT SIGNAGE:** PROVIDE FIELD-INSTALLED LABEL AT SERVICE EQUIPMENT INDICATING MAXIMUM AVAILABLE FAULT CURRENT, DATE OF CALCULATION, AND EQUIPMENT RATING PER NEC 110.24. LABEL SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT.
2. **SHUNT TRIP STATION:** PROVIDE WEATHERPROOF BREAK-GLASS SHUNT TRIP STATION. MOUNT ADJACENT TO ELECTRICAL ROOM AT LOCATION DIRECTED BY FIRE MARSHAL. MOUNT AT 48" AFF. PROVIDE PHENOLIC SIGNAGE WITH 1.5" MINIMUM LETTERING INDICATING "SHUNT TRIP MAIN DISCONNECT SWITCH."
3. **CT METER:** CURRENT TRANSFORMER (CT) METER. COORDINATE METERING REQUIREMENTS WITH UTILITY COMPANY PRIOR TO INSTALLATION.
4. **FEEDER REFERENCE:** REFER TO PANEL SCHEDULES FOR DETAILED FEEDER INFORMATION INCLUDING CONDUCTOR SIZE, CONDUIT SIZE, AND CIRCUIT AMPACITY.
5. **TRANSFORMER DETAIL REFERENCE:** REFER TO TRANSFORMER DETAILS ON SHEET E601.
6. **GROUNDING DETAIL REFERENCE:** REFER TO MAIN SERVICE ENTRANCE GROUNDING DETAIL ON SHEET E601.
7. **UTILITY TRANSFORMER:** UTILITY COMPANY TRANSFORMER. COORDINATE TRANSFORMER LOCATION, PAD REQUIREMENTS, AND SERVICE ENTRANCE CONDUIT ROUTING WITH UTILITY COMPANY PRIOR TO INSTALLATION.
8. **CONDUCTOR COLOR CODE:** CONDUCTOR COLOR CODING SHALL BE AS FOLLOWS:
   208Y/120V SYSTEM:
   - PHASE A: BLACK
   - PHASE B: RED
   - PHASE C: BLUE
   - NEUTRAL: WHITE
   - GROUND: GREEN

   480Y/277V SYSTEM:
   - PHASE A: BROWN
   - PHASE B: ORANGE
   - PHASE C: YELLOW
   - NEUTRAL: GRAY
   - GROUND: GREEN

   ALL CONDUCTOR COLOR CODING SHALL BE CONSISTENT THROUGHOUT THE PROJECT AND COMPLY WITH NEC AND LOCAL JURISDICTION REQUIREMENTS. WHERE CONDUCTORS ARE RE-IDENTIFIED, PERMANENT COLOR-CODED PHASE TAPE SHALL BE USED AT ALL TERMINATIONS AND ACCESSIBLE POINTS.
9. **SURGE PROTECTION DEVICE:** PROVIDE SURGE PROTECTION DEVICE (SPD) FOR PANEL. BASIS OF DESIGN: PQ PROTECTION PQC160 OR APPROVED EQUAL. MINIMUM RATING: 160KA PER PHASE, 80KA PER MODE (L-N, L-G, N-G). NEMA 4 ENCLOSURE. UL 1449 TYPE 1 LISTED, 20KA SCCR MINIMUM.
10. **SERVICE ENTRANCE SWITCHBOARD:** PROVIDE SERVICE ENTRANCE RATED SWITCHBOARD (BASIS OF DESIGN: SQUARE D QED-2 OR APPROVED EQUAL). MULTI-SECTION CONSTRUCTION. COPPER BUS. NEMA 1 INDOOR ENCLOSURE. REFER TO PANEL SCHEDULES AND RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS.
11. **SERVICE ENTRANCE MAIN CIRCUIT BREAKER:** PROVIDE MAIN CIRCUIT BREAKER WITH ELECTRONIC TRIP UNIT WITH LSIG PROTECTION FUNCTIONS (LONG-TIME, SHORT-TIME, INSTANTANEOUS, AND GROUND FAULT). ALL SETTINGS SHALL BE ADJUSTABLE.

ALL OVERCURRENT PROTECTIVE DEVICES SHOWN IN SERIES SHALL BE LISTED AND LABELED BY THE MANUFACTURER FOR USE IN SERIES-RATED COMBINATIONS. THE SERIES COMBINATION INTERRUPTING RATING SHALL BE EQUAL TO OR GREATER THAN THE AVAILABLE FAULT CURRENT AT THE LINE SIDE OF THE EQUIPMENT, AND SHALL BE VERIFIED IN ACCORDANCE WITH NEC 240.86. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL DEVICES IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SERIES RATING INSTRUCTIONS TO MAINTAIN THE INTEGRITY OF THE SERIES RATING.

ELECTRICAL EQUIPMENT SHALL BE LABELED WITH ARC FLASH WARNING LABELS IN ACCORDANCE WITH NFPA 70E AND NEC 110.16. LABELS SHALL INCLUDE AVAILABLE INCIDENT ENERGY, FLASH PROTECTION BOUNDARY, AND REQUIRED PERSONAL PROTECTIVE EQUIPMENT (PPE) LEVELS BASED ON A QUALIFIED STUDY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FINAL LABELS AFTER COMPLETION OF ARC FLASH ANALYSIS AND PRIOR TO ENERGIZATION.

REV#	DATE	REVISION
1	TBD	TBD

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DRAWING TITLE
ELECTRICAL RISER DIAGRAM

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ENGINEER OF RECORD

PRELIMINARY NOT FOR CONSTRUCTION

DAVID E. ALLEY, PE
PE #55008

DATE: 03/02/2026
SCALE: 12" = 1'-0"
PROJ. NO. : 250222
DESIGNED BY: DCS
DRAWN BY: DCS
CHECKED BY: DEA
DRAWING NO.: E601

EQUIPMENT COORDINATION SCHEDULE

PANEL	CKT	LOAD NAME	RATING	APPARENT CURRENT	APPARENT LOAD	VOLTAGE	POLES	WIRE SIZE	CONDUIT SIZE	CONDUIT SIZE SHARED	WIRE TYPE	APPROXIMATE LENGTH	VOLTAGE DROP	INTEGRAL DISCONNECT	INTEGRAL VFD	VFD WITH DISCONNECT SWITCH PROVIDED BY MECH.	DISCONNECT PROVIDED BY ELEC.	JUNCTION BOX HARDWIRED CONNECTION	NEMA RECEPTACLE TYPE	SWITCH SIZE	FUSE SIZE	NEMA RATING	NOTES
2A.2	43,45	EF-1 ROOF	20 A	12 A	2496 VA	208 V	2	2-#12, 1-#12		3/4"	60C CU	91' - 3 15/32"	4 V	YES									
KL1.2	22	EF-2 KITCH. ROOF	15 A	5 A	600 VA	120 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	64' - 9 5/16"	1 V	YES									
KL2.2	59	EF-3 KITCH. ROOF	15 A	5 A	600 VA	120 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	66' - 6 3/16"	1 V	YES									
2H.1	2,4,6	ELEV. MAIN ELEVATOR E1	100 A	65 A	54040 VA	480 V	3	3-#1, 1-#8		2"	60C CU	47' - 8 1/4"	1 V				YES			100 AR	NF	1	
2H.2	14,16,18	EWH-3 JANITOR'S CLOSET 213	15 A	5 A	4500 VA	480 V	3	3-#12, 1-#12		3/4"	60C CU	108' - 5 1/32"	2 V				YES			30 AR	NF	1	
1A.2	60	HAND DRYER 112	20 A	10 A	1200 VA	120 V	1	1-#8, 1-#8, 1-#8		1"	60C CU	162' - 7 25/32"	3 V				YES			30 AR	NF	1	
1A.2	62	HAND DRYER 121	20 A	10 A	1200 VA	120 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	78' - 2 1/2"	3 V				YES			30 AR	NF	1	
1A.2	64	HAND DRYER 121	20 A	10 A	1200 VA	120 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	75' - 11 23/32"	3 V				YES			30 AR	NF	1	
1A.2	66	HAND DRYER 135	20 A	10 A	1200 VA	120 V	1	1-#10, 1-#10, 1-#10		3/4"	60C CU	112' - 11 1/8"	3 V				YES			30 AR	NF	1	
1A.2	68	HAND DRYER 135	20 A	10 A	1200 VA	120 V	1	1-#10, 1-#10, 1-#10		3/4"	60C CU	117' - 8"	3 V				YES			30 AR	NF	1	
2A.2	54	HAND DRYER 226	20 A	2 A	180 VA	120 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	110' - 3 23/32"	1 V				YES			30 AR	NF	1	
2A.2	56	HAND DRYER 226	20 A	2 A	180 VA	120 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	105' - 6 29/32"	1 V				YES			30 AR	NF	1	
1L	2	HAND DRYER BATHROOM 140	20 A	10 A	1200 VA	120 V	1	1-#8, 1-#8, 1-#8		1"	60C CU	181' - 4 25/32"	3 V				YES			30 AR	NF	1	
1L	4	HAND DRYER BATHROOM 140	20 A	10 A	1200 VA	120 V	1	1-#8, 1-#8, 1-#8		1"	60C CU	174' - 1 23/32"	3 V				YES			30 AR	NF	1	
1L	6	HAND DRYER BATHROOM 145	20 A	10 A	1200 VA	120 V	1	1-#6, 1-#6, 1-#6		1-1/4"	60C CU	231' - 3 3/4"	2 V				YES			30 AR	NF	1	
1L	8	HAND DRYER BATHROOM 145	20 A	10 A	1200 VA	120 V	1	1-#6, 1-#6, 1-#6		1-1/4"	60C CU	234' - 3"	2 V				YES			30 AR	NF	1	
2A.2	52	HAND DRYER GANG BATH 212	20 A	2 A	180 VA	120 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	89' - 3 27/32"	1 V				YES			30 AR	NF	1	
1L	1,3,5	IRRIGATION PUMP	20 A	3 A	1200 VA	208 V	3	3-#12, 1-#12		3/4"	60C CU	326' - 9 19/32"	4 V				YES			30 AR	NF	3R	
1L	7,9	IWH-1 TEACHER RM 128	25 A	21 A	4300 VA	208 V	2	2-#10, 1-#10		3/4"	60C CU	68' - 9 13/16"	3 V				YES			30 AR	NF	1	
2L	1,3	IWH-2 TEACHER'S RM 222	25 A	21 A	4300 VA	208 V	2	2-#10, 1-#10		3/4"	60C CU	55' - 0 15/16"	3 V				YES			30 AR	NF	1	
2H.1	7,9,11	RTU-1 ROOF	60 A	45 A	37412 VA	480 V	3	3-#4, 1-#10		1-1/4"	60C CU	132' - 3 11/16"	3 V				YES			100 AR	NF	3R	
2H.1	10,12,14	RTU-2 ROOF	80 A	61 A	50715 VA	480 V	3	3-#3, 1-#8		1-1/2"	60C CU	72' - 3 1/8"	2 V				YES			100 AR	NF	3R	
2H.1	13,15,17	RTU-3 ROOF	80 A	61 A	50715 VA	480 V	3	3-#3, 1-#8		1-1/2"	60C CU	137' - 0 1/32"	4 V				YES			100 AR	NF	3R	
2H.1	16,18,20	RTU-4 ROOF	80 A	61 A	50715 VA	480 V	3	3-#3, 1-#8		1-1/2"	60C CU	45' - 7 7/16"	1 V				YES			100 AR	NF	3R	
2H.2	1,3,5	RTU-5 ROOF	80 A	61 A	50715 VA	480 V	3	3-#3, 1-#8		1-1/2"	60C CU	109' - 3 5/8"	3 V				YES			100 AR	NF	3R	
2H.2	2,4,6	RTU-6 ROOF	70 A	49 A	40737 VA	480 V	3	3-#4, 1-#8		1-1/4"	60C CU	171' - 0 19/32"	4 V				YES			60 AR	NF	3R	
2H.2	7,9,11	RTU-7 RM KITCH. ROOF	45 A	33 A	27436 VA	480 V	3	3-#6, 1-#10		1-1/4"	60C CU	172' - 8 9/32"	5 V				YES			60 AR	NF	3R	
2H.2	8,10,12	RTU-8 ROOF	70 A	50 A	41569 VA	480 V	3	3-#4, 1-#8		1-1/4"	60C CU	213' - 4 9/32"	6 V				YES			100 AR	NF	3R	
2H.2	13,15,17	RTU-9 ROOF	70 A	50 A	41569 VA	480 V	3	3-#4, 1-#8		1-1/4"	60C CU	267' - 11 23/32"	7 V				YES			100 AR	NF	3R	
1A.2	48	SUMP PUMP RCPT ELEV E1	20 A	10 A	1176 VA	120 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	65' - 7 29/32"	3 V				YES			30 AR	NF	1	
1H.1	2	VAV-1-01 RM 113	20 A	13 A	3500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	142' - 5 3/32"	7 V				YES			30 AR	NF	1	
1H.1	4	VAV-1-02 TUTOR 114	15 A	4 A	1000 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	121' - 8 17/32"	2 V				YES			30 AR	NF	1	
1H.1	6	VAV-1-03 RM 115	20 A	13 A	3500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	106' - 4 3/32"	5 V				YES			30 AR	NF	1	
1H.1	8	VAV-1-04 PRIMARY #1 111	15 A	11 A	3000 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	104' - 3 3/8"	5 V				YES			30 AR	NF	1	
1H.1	10	VAV-1-05 PRIMARY #2 116	20 A	13 A	3500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	65' - 9 7/8"	3 V				YES			30 AR	NF	1	
1H.1	12	VAV-1-06 PRIMARY #2 116	15 A	4 A	1000 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	80' - 4 7/8"	1 V				YES			30 AR	NF	1	
1H.1	14	VAV-1-07 TUTOR 110	15 A	7 A	2000 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	91' - 8 27/32"	3 V				YES			30 AR	NF	1	
1H.1	16	VAV-1-08 PRINCIPAL 106	15 A	5 A	1500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	107' - 4 17/32"	2 V				YES			30 AR	NF	1	
1H.1	18	VAV-1-09 CORRIDOR 101	15 A	7 A	2000 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	103' - 3 19/32"	3 V				YES			30 AR	NF	1	
1H.1	20	VAV-2-01 CLASS #2 105	20 A	14 A	4000 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	106' - 10 3/16"	6 V				YES			30 AR	NF	1	
1H.1	22	VAV-2-02 CLASS #3 104	20 A	13 A	3500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	91' - 5 11/32"	5 V				YES			30 AR	NF	1	
1H.1	24	VAV-2-03 CLASS #4 103	20 A	13 A	3500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	67' - 3 25/32"	3 V				YES			30 AR	NF	1	
1H.1	26	VAV-2-04 OFFICE 102	15 A	7 A	2000 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	60' - 1 13/16"	2 V				YES			30 AR	NF	1	
1H.1	28	VAV-2-05 CLASS #1 122	15 A	9 A	2500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	39' - 11 13/32"	1 V				YES			30 AR	NF	1	
1H.1	30	VAV-2-06 ELECTRIC 123	15 A	9 A	2500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	23' - 2 1/8"	1 V				YES			30 AR	NF	1	
1H.1	32	VAV-2-07 CORRIDOR 101	15 A	7 A	2000 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	50' - 0 23/32"	1 V				YES			30 AR	NF	1	
1H.1	34,36,38	VAV-2-08 CORRIDOR 101	15 A	3 A	2500 VA	480 V	3	3-#12, 1-#12		3/4"	60C CU	57' - 0 5/16"	1 V				YES			30 AR	NF	1	
1H.1	40	VAV-3-01 CLASS ROOM #6 133	15 A	5 A	1500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	137' - 9 31/32"	3 V				YES			30 AR	NF	1	
1H.1	42	VAV-3-02 CLASS #5 132	15 A	9 A	2500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	107' - 9 7/16"	4 V				YES			30 AR	NF	1	
1H.1	44	VAV-3-03 CLASS ROOM #6 133	20 A	13 A	3500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	132' - 5 9/16"	7 V				YES			30 AR	NF	1	
1H.1	46	VAV-3-04 CLASS #7 134	20 A	13 A	3500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	159' - 10 1/32"	8 V				YES			30 AR	NF	1	
1H.1	48	VAV-3-05 CLASS #8 137	20 A	13 A	3500 VA	277 V	1	1-#10, 1-#10, 1-#10		3/4"	60C CU	185' - 3 19/32"	6 V				YES			30 AR	NF	1	
1H.1	50	VAV-3-06 TUTOR 138	15 A	5 A	1500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	201' - 6 11/32"	4 V				YES			30 AR	NF	1	
2HA	2,4,6	VAV-3-07 COORIDOR 200	15 A	11 A	9000 VA	480 V	3	3-#12, 1-#12		3/4"	60C CU	173' - 3 5/8"	7 V				YES			30 AR	NF	1	
2HA	8	VAV-4-01 OFFICE 210	15 A	5 A	1500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	148' - 1 15/32"	3 V				YES			30 AR	NF	1	
2HA	10	VAV-4-02 TUTOR 209	15 A	7 A	2000 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	114' - 11 27/32"	3 V				YES			30 AR	NF	1	
2HA	12	VAV-4-03 PRINCIPAL 205	15 A	5 A	1500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	112' - 10 5/8"	2 V				YES			30 AR	NF	1	
2HA	14	VAV-4-04 COORIDOR 200	15 A	4 A	1000 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	74' - 10 1/32"	1 V				YES			30 AR	NF	1	
2HA	16	VAV-4-05 CLASSROOM #12 217	15 A	9 A	2500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	60' - 3"	2 V				YES			30 AR	NF	1	
2HA	18	VAV-4-06 CLASSROOM #13 218	15 A	9 A	2500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	32' - 7 7/16"	1 V				YES			30 AR	NF	1	
2HA	20	VAV-4-07 ELECTRIC 219	15 A	9 A	2500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	23' - 11 15/16"	1 V				YES			30 AR	NF	1	
2HA	22	VAV-4-08 LIBRARY 220	15 A	4 A	1000 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	36' - 3 11/32"	1 V				YES			30 AR	NF	1	
2HA	24	VAV-4-09 CLASSROOM #9 204	20 A	14 A	4000 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	125' - 1 9/16"	7 V				YES			30 AR	NF	1	
2HA	26	VAV-4-10 CLASSROOM #10 203	20 A	13 A	3500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	98' - 11 3/8"	5 V				YES			30 AR	NF	1	
2HA	28	VAV-4-11 CLASSROOM #11 202	20 A	13 A	3500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	72' - 10 1/8"	4 V				YES			30 AR	NF	1	
2HA	30	VAV-4-12 OFFICE 201	15 A	7 A	2000 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	45' - 0 1/32"	1 V				YES			30 AR	NF	1	
2HA	32,34,36	VAV-5-01 COORIDOR 200	15 A	8 A	7000 VA	480 V	3	3-#12, 1-#12		3/4"	60C CU	69' - 2 27/32"	2 V				YES			30 AR	NF	1	
2HA	38	VAV-5-02 CLASSROOM #14 224	15 A	4 A	1000 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	72' - 1 3/16"	1 V				YES			30 AR	NF	1	
2HA	40	VAV-5-03 CLASSROOM #14 224	15 A	11 A	3000 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	78' - 9 15/16"	3 V				YES			30 AR	NF	1	
2HA	42	VAV-5-04 CLASSROOM #15 225	20 A	13 A	3500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	89' - 7 9/16"	5 V				YES			30 AR	NF	1	
2HA	44	VAV-5-05 CLASSROOM #16 227	20 A	13 A	3500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	118' - 4 29/32"	6 V				YES			30 AR	NF	1	
2HA	46	VAV-5-06 CLASSROOM #17 228	20 A	13 A	3500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	141' - 5 7/32"	7 V				YES			30 AR	NF	1	
2HA	48	VAV-5-07 TUTOR 229	15 A	9 A	2500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	161' - 9 1/2"	6 V				YES			30 AR	NF	1	
2HA	50	VAV-5-08 PRINCIPAL 233	15 A	5 A	1500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	184' - 0 13/16"	4 V				YES			30 AR	NF	1	
2HA	52	VAV-5-09 COORIDOR 200	15 A	7 A	2000 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	175' - 3 1/16"	5 V				YES			30 AR	NF	1	
1H.1	52	VAV-7-01 RM 141	15 A	11 A	3000 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	170' - 2 7/8"	7 V				YES			30 AR	NF	1	
1H.1	54	VAV-7-02 RM 141	15 A	11 A	3000 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	154' - 7 1/16"	7 V				YES			30 AR	NF	1	
1H.1	56	VAV-7-03 RM 141	15 A	5 A	1500 VA	277 V	1	1-#12, 1-#12, 1-#12		3/4"	60C CU	160' - 1 5/8"	3 V				YES			30 AR	NF	1	

REV#	DATE	REVISION
1	TBD	TBD

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DRAWING TITLE
EQUIPMENT COORDINATION SCHEDULE

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ENGINEER OF RECORD

PRELIMINARY NOT FOR CONSTRUCTION

DAVID E. ALLEY, PE
PE #55008

DATE: 03/02/2026

SCALE:

PROJ. NO. : 250222

DESIGNED BY: DCS

DRAWN BY: DCS

CHECKED BY: DEA

DRAWING NO.: E701

Panel: MDPH1

Design Selection:
Mains Rating: 1200
Type: MCB
MCB Rating: 1200

Voltage: 480/277 Wye
Phases: 3
Wires: 4
Mounting:

Minimum A.I.C. Rating: 65,000
Location: ELECTRIC 123
Served From: UTIL. XFMR

Note	Tri...	Ø	Description	Set	Hot	Neut	Gnd	Cond	#	A	B	C	#	Cond	Gnd	Neut	Hot	Set	Description	Ø	Tri...	Note
	400 A	3	1H.1	1	3-#600	1-#600	1-#3	4"	1	50.02	26.57		2									
									3			46.94	28.73		4	2-1/2"	1-#4	1-#4/0	3-#4/0	1	2HA	3	225 A	
									5					44.56	28.67		6								
	350 A	3	TX1	1	3-#500	-	1-#3	4"	7	114.69	97.38		8									
									9			108.01	96.30		10	4"	1-#3	1-#600	3-#600	1	2H.1	3	400 A	
									11					85.14	94.70		12								
	400 A	3	2H.2	1	3-#600	1-#600	1-#3	4"	13	68.84	0.00		14									
									15			68.84	0.00		16	--	--	--	--	--	SPARE	3	400 A	--
									17					68.84	0.00		18								
--	400 A	3	SPARE	--	--	--	--	--	19	0.00	0.00		20									
									21			0.00	0.00		22	--	--	--	--	--	SPARE	3	20 A	--
									23					0.00	0.00		24								
--	200 A	3	SPARE	--	--	--	--	--	25	0.00	0.00		26									
									27			0.00	0.00		28	--	--	--	--	--	SPARE	3	100 A	--
									29					0.00	0.00		30								
--	100 A	3	SPARE	--	--	--	--	--	31	0.00	--		32	--	--	--	--	--	SPACE	1	--	--
									33			0.00	--		34	--	--	--	--	--	SPACE	1	--	--
									35					0.00	--		36	--	--	--	--	--	SPACE	1	--	--
--	--	1	SPACE	--	--	--	--	--	37	--	0.00		38									
--	--	1	SPACE	--	--	--	--	--	39			--	0.00		40	3/4"	1-#10	1-#10	3-#10	1	SPD	3	30 A	
--	--	1	SPACE	--	--	--	--	--	41					--	0.00		42								
									Total	357.5 kVA		348.82 kVA		321.92 kVA											

Load Classification	Connected Load	Demand Factor	Demand Load	Load Summary	
Equipment	65126 VA	100.00%	65126 VA	**Total Connected Load:**	1028246 VA
HVAC	256075 VA	85.00%	217664 VA		
Heating	19400 VA	100.00%	19400 VA	**Estimated Demand Load:**	879401 VA
Kitchen	238466 VA	65.00%	155003 VA		
Lighting	34835 VA	125.00%	43544 VA	**Estimated Demand Current:**	1058 A
Motor	55756 VA	100.00%	55756 VA		
Power	277228 VA	100.00%	277228 VA		
Receptacle (10kVA + 50% REST)	81360 VA	56.15%	45680 VA		

Notes:

Panel: 1H.1

Design Selection:
Mains Rating: 400
Type: MLO
MCB Rating: N/A

Voltage: 480/277 Wye
Phases: 3
Wires: 4
Mounting: SURFACE

Minimum A.I.C. Rating: 18,000
Location: ELECTRIC 123
Served From: MDPH1

Note	Tri...	Ø	Description	Set	Hot	Neut	Gnd	Cond	#	A	B	C	#	Cond	Gnd	Neut	Hot	Set	Description	Ø	Tri...	Note
	20 A	1	LTG 101,106-115	1	1-#12	1-#12	1-#12	3/4"	1	2.31	3.50		2	3/4"	1-#12	1-#12	1-#12	1	VAV-1-01 RM 113	1	20 A	
	20 A	1	LTG 116-127	1	1-#12	1-#12	1-#12	3/4"	3			1.91	1.00		4	3/4"	1-#12	1-#12	1-#12	1	VAV-1-02 TUTOR 114	1	15 A	
	20 A	1	LTG 128,128A,129,132,135,136	1	1-#12	1-#12	1-#12	3/4"	5			1.27	3.50	6	3/4"	1-#12	1-#12	1-#12	1	VAV-1-03 RM 115	1	20 A	
	20 A	1	LTG 140,141	1	1-#12	1-#12	1-#12	3/4"	7	1.75	3.00		8	3/4"	1-#12	1-#12	1-#12	1	VAV-1-04 PRIMARY #1 111	1	15 A	
	20 A	1	LTG 134,137-140,142,145,146	1	1-#12	1-#12	1-#12	3/4"	9			1.80	3.50		10	3/4"	1-#12	1-#12	1-#12	1	VAV-1-05 PRIMARY #2 116	1	20 A	
	20 A	1	LTG 100,130,131,133	1	1-#12	1-#12	1-#12	3/4"	11					0.65	1.00	12	3/4"	1-#12	1-#12	1-#12	1	VAV-1-06 PRIMARY #2 116	1	15 A	
	20 A	1	LTG 102,103,104,105	1	1-#12	1-#12	1-#12	3/4"	13	1.80	2.00		14	3/4"	1-#12	1-#12	1-#12	1	VAV-1-07 TUTOR 110	1	15 A	
	20 A	1	LTG CORRIDOR 101	1	1-#12	1-#12	1-#12	3/4"	15			2.19	1.50		16	3/4"	1-#12	1-#12	1-#12	1	VAV-1-08 PRINCIPAL 106	1	15 A	
	20 A	1	LTG ELEV. SHAFT	1	1-#12	1-#12	1-#12	3/4"	17					0.18	2.00	18	3/4"	1-#12	1-#12	1-#12	1	VAV-1-09 CORRIDOR 101	1	15 A	
	20 A	2	LTG EXTERIOR BLDG	1	2-#12	-	1-#12	3/4"	19	0.20	4.00		20									
									21			0.20	3.50		22	3/4"	1-#12	1-#12	1-#12	1	VAV-2-02 CLASS #3 104	1	20 A	
	20 A	2	LTG SITE PARKING/DRIVEWAY	1	2-#12	-	1-#12	3/4"	23					0.13	3.50	24	3/4"	1-#12	1-#12	1-#12	1	VAV-2-03 CLASS #4 103	1	20 A	
									25	0.13	2.00		26	3/4"	1-#12	1-#12	1-#12	1	VAV-2-04 OFFICE 102	1	15 A	
	45 A	3	EWH-1 JANITORS 136	1	3-#6	-	1-#10	1-1/4"	27			10.00	2.50		28	3/4"	1-#12	1-#12	1-#12	1	VAV-2-05 CLASS #1 122	1	15 A	
									29					10.00	2.50	30	3/4"	1-#12	1-#12	1-#12	1	VAV-2-06 ELECTRIC 123	1	15 A	
									31	10.00	2.00		32	3/4"	1-#12	1-#12	1-#12	1	VAV-2-07 CORRIDOR 101	1	15 A	
	45 A	3	EWH-2 JANITORS 136	1	3-#6	-	1-#10	1-1/4"	33			10.00	0.83		34									
									35					10.00	0.83	36	3/4"	1-#12	-	3-#12	1	VAV-2-08 CORRIDOR 101	3	15 A	
									37	10.00	0.83		38									
--	20 A	1	SPARE	--	--	--	--	--	39			0.00	1.50		40	3/4"	1-#12	1-#12	1-#12	1	VAV-3-01 CLASS ROOM #6 133	1	15 A	
--	20 A	1	SPARE	--	--	--	--	--	41					0.00	2.50	42	3/4"	1-#12	1-#12	1-#12	1	VAV-3-02 CLASS #5 132	1	15 A	
--	20 A	1	SPARE	--	--	--	--	--	43	0.00	3.50		44	3/4"	1-#12	1-#12	1-#12	1	VAV-3-03 CLASS ROOM #6 133	1	20 A	
--	20 A	1	SPARE	--	--	--	--	--	45			0.00	3.50		46	3/4"	1-#12	1-#12	1-#12	1	VAV-3-04 CLASS #7 134	1	20 A	
--	20 A	1	SPARE	--	--	--	--	--	47					0.00	3.50	48	3/4"	1-#10	1-#10	1-#10	1	VAV-3-05 CLASS #8 137	1	20 A	
--	20 A	1	SPARE	--	--	--	--	--	49	0.00	1.50		50	3/4"	1-#12	1-#12	1-#12	1	VAV-3-06 TUTOR 138	1	15 A	
--	20 A	1	SPARE	--	--	--	--	--	51			0.00	3.00		52	3/4"	1-#12	1-#12	1-#12	1	VAV-7-01 RM 141	1	15 A	
--	20 A	1	SPARE	--	--	--	--	--	53					0.00	3.00	54	3/4"	1-#12	1-#12	1-#12	1	VAV-7-02 RM 141	1	15 A	
--	20 A	1	SPARE	--	--	--	--	--	55	0.00	1.50		56	3/4"	1-#12	1-#12	1-#12	1	VAV-7-03 RM 141	1	15 A	
--	20 A	1	SPARE	--	--	--	--	--	57			0.00	0.00		58	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	59			0.00	0.00		60	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	61	0.00	0.00		62	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	63			0.00	0.00		64	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	65			0.00	0.00		66	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	67	0.00	0.00		68									
--	20 A	1	SPARE	--	--	--	--	--	69			0.00	0.00		70	3/4"	1-#10	1-#10	3-#10	1	SPD	3	30 A	
--	20 A	1	SPARE	--	--	--	--	--	71					0.00	0.00	72								
									Total	50.02 kVA		46.94 kVA		44.56 kVA										

Load Classification	Connected Load	Demand Factor	Demand Load	Load Summary	
Equipment	60026 VA	100.00%	60026 VA	**Total Connected Load:**	141530 VA
HVAC	67000 VA	85.00%	56950 VA		
Lighting	14504 VA	125.00%	18130 VA	**Estimated Demand Load:**	135106 VA
Power	0 VA	0.00%	0 VA		
				Estimated Demand Current:	163 A

Notes:

2651 FAU GALLE BLVD, SUITE A
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Consulting Engineers

REV#	DATE	REVISION
1	TBD	TBD

LAKEFRONT BOY'S SCHOOL
OKEECHOBEE, FL

DRAWING TITLE
ELECTRICAL PANELS

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ENGINEER OF RECORD

PRELIMINARY NOT FOR CONSTRUCTION

DAVID E. ALLEY, PE
PE #55008

DATE: 03/02/2026
SCALE:
PROJ. NO. : 250222
DESIGNED BY: DCS
DRAWN BY: DCS
CHECKED BY: DEA
DRAWING NO.: E702

Panel: 2H.1

Design Selection:
Mains Rating: 400
Type: MCB
MCB Rating: 400

Voltage: 480/277 Wye
Phases: 3
Wires: 4
Mounting:

Minimum A.I.C. Rating: 18,000
Location: ELECTRIC 219
Served From: MDPH1

Note	Tri...	Ø	Description	Set	Hot	Neut	Gnd	Cond	#	A	B	C	#	Cond	Gnd	Neut	Hot	Set	Description	Ø	Tri...	Note
	175 A	3	TX2	1	3-#2/0	-	1-#6	2-1/2"	1	16.18	18.01		2									
									3			15.10	18.01		4	2"	1-#1	-	3-#1	1	ELEV. MAIN ELEVATOR E1	3	100 A	1
									5					13.50	18.01		6								
	60 A	3	RTU-1 ROOF	1	3-#4	-	1-#10	1-1/4"	7	12.47	--					8	--	--	--	--	--	SPACE FOR SHUNT TRIP	1	--	--
									9			12.47	16.91			10									
									11					12.47	16.91	12	1-1/2"	1-#8	-	3-#3	1	RTU-2 ROOF	3	80 A	
	80 A	3	RTU-3 ROOF	1	3-#3	-	1-#8	1-1/2"	13	16.91	16.91					14									
									15			16.91	16.91			16									
									17					16.91	16.91	18	1-1/2"	1-#8	-	3-#3	1	RTU-4 ROOF	3	80 A	
--	20 A	1	SPARE	--	--	--	--	--	19	0.00	16.91					20									
--	20 A	1	SPARE	--	--	--	--	--	21			0.00	0.00			22	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	23					0.00	0.00	24	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	25	0.00	0.00					26	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	27			0.00	0.00			28	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	29					0.00	0.00	30	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	31	0.00	0.00					32	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	33			0.00	0.00			34	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	35					0.00	0.00	36	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	37	0.00	0.00					38									
--	20 A	1	SPARE	--	--	--	--	--	39			0.00	0.00			40	3/4"	1-#10	1-#10	3-#10	1	SPD	3	30 A	
--	20 A	1	SPARE	--	--	--	--	--	41					0.00	0.00	42									
								Total		97.38 kVA		96.3 kVA		94.7 kVA											

Load Classification	Connected Load	Demand Factor	Demand Load	Load Summary	
HVAC	141338 VA	85.00%	120137 VA	**Total Connected Load:**	288373 VA
Heating	4300 VA	100.00%	4300 VA		
Lighting	360 VA	125.00%	450 VA	**Estimated Demand Load:**	253722 VA
Motor	54580 VA	100.00%	54580 VA		
Power	50715 VA	100.00%	50715 VA	**Estimated Demand Current:**	305 A
Receptacle (10kVA + 50% REST)	37080 VA	63.48%	23540 VA		

Notes:
1. ELEVATOR CONTROLLER POWER: PROVIDE 3-POLE, 100A SHUNT TRIP CIRCUIT BREAKER, POWER MODULE DISCONNECT SWITCH (BASIS OF DESIGN: EATON OR APPROVED EQUAL), AND ENCLOSURE FOR ELEVATOR CONTROLLER. FIELD VERIFY CIRCUIT BREAKER SIZE WITH ELEVATOR CONTRACTOR PRIOR TO ORDERING.

Panel: 2H.2

Design Selection:
Mains Rating: 400
Type: MCB
MCB Rating: 400

Voltage: 480/277 Wye
Phases: 3
Wires: 4
Mounting:

Minimum A.I.C. Rating: 18,000
Location: ELECTRIC 219
Served From: MDPH1

Note	Tri...	Ø	Description	Set	Hot	Neut	Gnd	Cond	#	A	B	C	#	Cond	Gnd	Neut	Hot	Set	Description	Ø	Tri...	Note
	80 A	3	RTU-5 ROOF	1	3-#3	-	1-#8	1-1/2"	1	16.91	13.58		2									
									3			16.91	13.58		4	1-1/4"	1-#8	-	3-#4	1	RTU-6 ROOF	3	70 A	
									5					16.91	13.58	6								
	45 A	3	RTU-7 RM KITCH. ROOF	1	3-#6	-	1-#10	1-1/4"	7	9.15	13.86					8									
									9			9.15	13.86			10	1-1/4"	1-#8	-	3-#4	1	RTU-8 ROOF	3	70 A	
									11					9.15	13.86	12									
	70 A	3	RTU-9 ROOF	1	3-#4	-	1-#8	1-1/4"	13	13.86	1.50					14									
									15			13.86	1.50			16	3/4"	1-#12	-	3-#12	1	EWH-3 JANITOR'S CLOSET 213	3	15 A	
									17					13.86	1.50	18									
--	20 A	1	SPARE	--	--	--	--	--	19	0.00	0.00					20	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	21			0.00	0.00			22	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	23					0.00	0.00	24	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	25	0.00	0.00					26	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	27			0.00	0.00			28	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	29					0.00	0.00	30	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	31	0.00	0.00					32	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	33			0.00	0.00			34	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	35					0.00	0.00	36	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	37	0.00	0.00					38									
--	20 A	1	SPARE	--	--	--	--	--	39			0.00	0.00			40	3/4"	1-#10	1-#10	3-#10	1	SPD	3	30 A	
--	20 A	1	SPARE	--	--	--	--	--	41					0.00	0.00	42									
								Total		68.84 kVA		68.84 kVA		68.84 kVA											

Load Classification	Connected Load	Demand Factor	Demand Load	Load Summary	
Equipment	4500 VA	100.00%	4500 VA	**Total Connected Load:**	206526 VA
HVAC	40737 VA	85.00%	34626 VA		
Power	161289 VA	100.00%	161289 VA	**Estimated Demand Load:**	200415 VA
				Estimated Demand Current:	241 A

Notes:

Panel: 2HA

Design Selection:
Mains Rating: 250
Type: MCB
MCB Rating: 225

Voltage: 480/277 Wye
Phases: 3
Wires: 4
Mounting: SURFACE

Minimum A.I.C. Rating: 18,000
Location: ELECTRIC 219
Served From: MDPH1

Note	Tri...	Ø	Description	Set	Hot	Neut	Gnd	Cond	#	A	B	C	#	Cond	Gnd	Neut	Hot	Set	Description	Ø	Tri...	Note
	20 A	1	LTG BEIS MEDRASH 211	1	1-#12	1-#12	1-#12	3/4"	1	2.32	3.00		2									
	20 A	1	LTG 205-210,212-216,SB-1,SB-2	1	1-#12	1-#12	1-#12	3/4"	3			1.50	3.00		4	3/4"	1-#12	-	3-#12	1	VAV-3-07 COORIDOR 200	3	15 A	
	20 A	1	LTG 217-222,224,226	1	1-#12	1-#12	1-#12	3/4"	5					2.60	3.00	6								
	20 A	1	LTG DINING ROOM 147	1	1-#10	1-#10	1-#10	3/4"	7	2.62	1.50					8	3/4"	1-#12	1-#12	1	VAV-4-01 OFFICE 210	1	15 A	
	20 A	1	LTG DINING ROOM 147	1	1-#10	1-#10	1-#10	3/4"	9			2.60	2.00			10	3/4"	1-#12	1-#12	1	VAV-4-02 TUTOR 209	1	15 A	
	20 A	1	LTG 143,144,229-235,SC-2	1	1-#12	1-#12	1-#12	3/4"	11					2.04	1.50	12	3/4"	1-#12	1-#12	1	VAV-4-03 PRINCIPAL 205	1	15 A	
	20 A	1	LTG 223,225,227,228,SA-2	1	1-#12	1-#12	1-#12	3/4"	13	1.80	1.00					14	3/4"	1-#12	1-#12	1	VAV-4-04 COORIDOR 200	1	15 A	
	20 A	1	LTG 201,202,203,204	1	1-#12	1-#12	1-#12	3/4"	15			1.80	2.50			16	3/4"	1-#12	1-#12	1	VAV-4-05 CLASSROOM #12 217	1	15 A	
	20 A	1	LTG 100,200	1	1-#12	1-#12	1-#12	3/4"	17			2.70	2.50			18	3/4"	1-#12	1-#12	1	VAV-4-06 CLASSROOM #13 218	1	15 A	
--	20 A	1	SPARE	--	--	--	--	--	19	0.00	2.50					20	3/4"	1-#12	1-#12	1	VAV-4-07 ELECTRIC 219	1	15 A	
--	20 A	1	SPARE	--	--	--	--	--	21			0.00	1.00			22	3/4"	1-#12	1-#12	1	VAV-4-08 LIBRARY 220	1	15 A	
--	20 A	1	SPARE	--	--	--	--	--	23					0.00	4.00	24	3/4"	1-#12	1-#12	1	VAV-4-09 CLASSROOM #9 204	1	20 A	
--	20 A	1	SPARE	--	--	--	--	--	25	0.00	3.50					26	3/4"	1-#12	1-#12	1	VAV-4-10 CLASSROOM #10 203	1	20 A	
--	20 A	1	SPARE	--	--	--	--	--	27			0.00	3.50			28	3/4"	1-#12	1-#12	1	VAV-4-11 CLASSROOM #11 202	1	20 A	
--	20 A	1	SPARE	--	--	--	--	--	29					0.00	2.00	30	3/4"	1-#12	1-#12	1	VAV-4-12 OFFICE 201	1	15 A	
--	20 A	1	SPARE	--	--	--	--	--	31	0.00	2.33					32									
--	20 A	1	SPARE	--	--	--	--	--	33			0.00	2.33			34	3/4"	1-#12	-	3-#12	1	VAV-5-01 COORIDOR 200	3	15 A	
--	20 A	1	SPARE	--	--	--	--	--	35					0.00	2.33	36									
--	20 A	1	SPARE	--	--	--	--	--	37	0.00	1.00					38	3/4"	1-#12	1-#12	1	VAV-5-02 CLASSROOM #14 224	1	15 A	
--	20 A	1	SPARE	--	--	--	--	--	39			0.00	3.00			40	3/4"	1-#12	1-#12	1	VAV-5-03 CLASSROOM #14 224	1	15 A	
--	20 A	1	SPARE	--	--	--	--	--	41					0.00	3.50	42	3/4"	1-#12	1-#12	1	VAV-5-04 CLASSROOM #15 225	1	20 A	
--	20 A	1	SPARE	--	--	--	--	--	43	0.00	3.50					44	3/4"	1-#12	1-#12	1	VAV-5-05 CLASSROOM #16 227	1	20 A	
--	20 A	1	SPARE	--	--	--	--	--	45			0.00	3.50			46	3/4"	1-#12	1-#12	1	VAV-5-06 CLASSROOM #17 228	1	20 A	
--	20 A	1	SPARE	--	--	--	--	--	47					0.00	2.50	48	3/4"	1-#12	1-#12	1	VAV-5-07 TUTOR 229	1	15 A	
--	20 A	1	SPARE	--	--	--	--	--	49	0.00	1.50					50	3/4"	1-#12	1-#12	1	VAV-5-08 PRINCIPAL 233	1	15 A	
--	20 A	1	SPARE	--	--	--	--	--	51			0.00	2.00			52	3/4"	1-#12	1-#12	1	VAV-5-09 COORIDOR 200	1	15 A	
--	20 A	1	SPARE	--	--	--	--	--	53					0.00	0.00	54	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	55	0.00	0.00					56	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	57			0.00	0.00			58	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	59					0.00	0.00	60	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	61	0.00	0.00					62	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	63			0.00	0.00			64	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	65					0.00	0.00	66	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	67	0.00	0.00					68									
--	20 A	1	SPARE	--	--	--	--	--	69			0.00	0.00			70	3/4"	1-#10	1-#10	3-#10	1	SPD	3	30 A	
--	20 A	1	SPARE	--	--	--	--	--	71			0.00	0.00			72									
								Total		26.57 kVA		28.73 kVA		28.67 kVA											

Load Classification	Connected Load	Demand Factor	Demand Load	Load Summary	
HVAC	7000 VA	85.00%	5950 VA	**Total Connected Load:**	83972 VA
Lighting	19972 VA	125.00%	24965 VA		
Power	57000 VA	100.00%	57000 VA	**Estimated Demand Load:**	87915 VA
				Estimated Demand Current:	106 A

Notes:
1. ELEVATOR CONTROLLER POWER: PROVIDE 3-POLE, 100A SHUNT TRIP CIRCUIT BREAKER, POWER MODULE DISCONNECT SWITCH (BASIS OF DESIGN: EATON OR APPROVED EQUAL), AND ENCLOSURE FOR ELEVATOR CONTROLLER. FIELD VERIFY CIRCUIT BREAKER SIZE WITH ELEVATOR CONTRACTOR PRIOR TO ORDERING.

REVISION

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ENGINEER OF RECORD

PRELIMINARY NOT FOR CONSTRUCTION

DAVID E. ALLEY, PE
PE #55008

DATE: 03/02/2026
SCALE:
PROJ. NO. : 250222
DESIGNED BY: DCS
DRAWN BY: DCS
CHECKED BY: DEA
DRAWING NO.: E703

Panel: MDPL1

Design Selection:
Mains Rating: 800
Type: MCB
MCB Rating: 800

Voltage: 120/208 Wye
Phases: 3
Wires: 4
Mounting: SURFACE

Minimum A.I.C. Rating: 22,000
Location: ELECTRIC 123
Served From: TX1

Note	Tri...	Ø	Description	Set	Hot	Neut	Gnd	Cond	#	A		B		C		#	Cond	Gnd	Neut	Hot	Set	Description	Ø	Tri...	Note
	225 A	3	1A.1	1	3-#4/0	1-#4/0	1-#4	2-1/2"	1	18.96	6.33					2									
									3			15.78	3.93			4	2"	1-#8	1-#1	3-#1	1	1L	3	100 A	
									5					13.30	2.38	6									
	400 A	3	KL2.1	1	3-#600	1-#600	1-#3	4"	7	41.24	48.16					8									
									9			40.76	47.55			10	4"	1-#3	1-#600	3-#600	1	KL1.1	3	400 A	
									11					30.66	38.81	12									
--	20 A	1	SPARE	--	--	--	--	--	13	0.00	0.00					14	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	15			0.00	0.00			16	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	17					0.00	0.00	18	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	19	0.00	0.00					20	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	21			0.00	0.00			22	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	23					0.00	0.00	24	--	--	--	--	--	SPARE	1	20 A	--
--	--	1	SPACE	--	--	--	--	--	25	--	--					26	--	--	--	--	--	SPACE	1	--	--
--	--	1	SPACE	--	--	--	--	--	27			--	--			28	--	--	--	--	--	SPACE	1	--	--
--	--	1	SPACE	--	--	--	--	--	29					--	--	30	--	--	--	--	--	SPACE	1	--	--
--	--	1	SPACE	--	--	--	--	--	31	--	--					32	--	--	--	--	--	SPACE	1	--	--
--	--	1	SPACE	--	--	--	--	--	33			--	--			34	--	--	--	--	--	SPACE	1	--	--
--	--	1	SPACE	--	--	--	--	--	35					--	--	36	--	--	--	--	--	SPACE	1	--	--
--	--	1	SPACE	--	--	--	--	--	37	--	0.00					38									
--	--	1	SPACE	--	--	--	--	--	39			--	0.00			40	3/4"	1-#10	1-#10	3-#10	1	SPD	3	30 A	
--	--	1	SPACE	--	--	--	--	--	41					--	0.00	42									
								Total		114.69 kVA		108.01 kVA		85.14 kVA											

Load Classification	Connected Load	Demand Factor	Demand Load	Load Summary	
Equipment	600 VA	100.00%	600 VA	**Total Connected Load:**	307846 VA
Heating	15100 VA	100.00%	15100 VA		
Kitchen	238466 VA	65.00%	155003 VA	**Estimated Demand Load:**	207243 VA
Motor	1176 VA	100.00%	1176 VA		
Power	8224 VA	100.00%	8224 VA	**Estimated Demand Current:**	575 A
Receptacle (10kVA + 50% REST)	44280 VA	61.29%	27140 VA		

Notes:

Panel: 1A.1

Design Selection:
Mains Rating: 225
Type: MLO
MCB Rating: N/A

Voltage: 120/208 Wye
Phases: 3
Wires: 4
Mounting: SURFACE

Minimum A.I.C. Rating: 10,000
Location: ELECTRIC 123
Served From: MDPL1

Note	Tri...	Ø	Description	Set	Hot	Neut	Gnd	Cond	#	A		B		C		#	Cond	Gnd	Neut	Hot	Set	Description	Ø	Tri...	Note
	20 A	1	RCPT KINDERGARDEN #1 113	1	1-#10	1-#10	1-#10	3/4"	1	0.90	0.90					2	3/4"	1-#10	1-#10	1-#10	1	RCPT CLASSROOM #7 134	1	20 A	
	20 A	1	RCPT KINDERGARDEN #1 113	1	1-#12	1-#12	1-#12	3/4"	3			0.18	0.54			4	3/4"	1-#12	1-#12	1-#12	1	RCPT CLASSROOM #7 134	1	20 A	
	20 A	1	RCPT KINDERGARDEN #1 113	1	1-#12	1-#12	1-#12	3/4"	5					0.54	0.18	6	3/4"	1-#12	1-#12	1-#12	1	RCPT CLASSROOM #7 134	1	20 A	
	20 A	1	RCPT KINDERGARDEN #2 115	1	1-#10	1-#10	1-#10	3/4"	7	0.90	0.54					8	3/4"	1-#12	1-#12	1-#12	1	RCPT CLASSROOM #8 137	1	20 A	
	20 A	1	RCPT KINDERGARDEN #2 115	1	1-#12	1-#12	1-#12	3/4"	9			0.54	0.90			10	3/4"	1-#10	1-#10	1-#10	1	RCPT CLASSROOM #8 137	1	20 A	
	20 A	1	RCPT KINDERGARDEN #2 115	1	1-#12	1-#12	1-#12	3/4"	11					0.18	0.18	12	3/4"	1-#12	1-#12	1-#12	1	RCPT CLASSROOM #8 137	1	20 A	
	20 A	1	RCPT PRIMARY #1 111	1	1-#10	1-#10	1-#10	3/4"	13	0.90	1.08					14	1"	1-#8	1-#8	1-#8	1	RCPT 101,142,143,144	1	20 A	
	20 A	1	RCPT PRIMARY #1 111	1	1-#12	1-#12	1-#12	3/4"	15			0.18	0.90			16	1"	1-#8	1-#8	1-#8	1	RCPT DINING ROOM 147	1	20 A	
	20 A	1	RCPT PRIMARY #1 111	1	1-#12	1-#12	1-#12	3/4"	17					0.54	0.90	18	3/4"	1-#10	1-#10	1-#10	1	RCPT 135,136,140	1	20 A	
	20 A	1	RCPT PRIMARY #2 116	1	1-#12	1-#12	1-#12	3/4"	19	0.90	0.54					20	3/4"	1-#12	1-#12	1-#12	1	RCPT CLASSROOM #5 132	1	20 A	
	20 A	1	RCPT PRIMARY #2 116	1	1-#12	1-#12	1-#12	3/4"	21			0.54	0.90			22	3/4"	1-#12	1-#12	1-#12	1	RCPT CLASSROOM #5 132	1	20 A	
	20 A	1	RCPT PRIMARY #2 116	1	1-#12	1-#12	1-#12	3/4"	23					0.18	0.18	24	3/4"	1-#12	1-#12	1-#12	1	RCPT CLASSROOM #5 132	1	20 A	
	20 A	1	RCPT CLASSROOM #2 105	1	1-#12	1-#12	1-#12	3/4"	25	0.18	1.44					26	3/4"	1-#10	1-#10	1-#10	1	RCPT 128,129	1	20 A	
	20 A	1	RCPT CLASSROOM #2 105	1	1-#12	1-#12	1-#12	3/4"	27			0.54	0.72			28	3/4"	1-#12	1-#12	1-#12	1	RCPT NURSE 125	1	20 A	
	20 A	1	RCPT CLASSROOM #2 105	1	1-#10	1-#10	1-#10	3/4"	29					0.90	0.00	30	--	--	--	--	--	SPARE	1	20 A	--
	20 A	1	RCPT CLASSROOM #3 104	1	1-#12	1-#12	1-#12	3/4"	31	0.18	0.90					32	3/4"	1-#12	1-#12	1-#12	1	RCPT CLASSROOM #1 122	1	20 A	
	20 A	1	RCPT CLASSROOM #3 104	1	1-#12	1-#12	1-#12	3/4"	33			0.54	0.54			34	3/4"	1-#12	1-#12	1-#12	1	RCPT CLASSROOM #1 122	1	20 A	
	20 A	1	RCPT CLASSROOM #3 104	1	1-#12	1-#12	1-#12	3/4"	35					0.90	0.18	36	3/4"	1-#12	1-#12	1-#12	1	RCPT CLASSROOM #1 122	1	20 A	
	20 A	1	RCPT CLASSROOM #4 103	1	1-#12	1-#12	1-#12	3/4"	37	0.54	1.26					38	3/4"	1-#12	1-#12	1-#12	1	RCPT 119,120	1	20 A	
	20 A	1	RCPT CLASSROOM #4 103	1	1-#12	1-#12	1-#12	3/4"	39			0.18	1.44			40	3/4"	1-#10	1-#10	1-#10	1	RCPT 117,118	1	20 A	
	20 A	1	RCPT CLASSROOM #4 103	1	1-#12	1-#12	1-#12	3/4"	41					0.90	1.08	42	1"	1-#8	1-#8	1-#8	1	RCPT 113A,114,115A	1	20 A	
								Total		18.96 kVA		15.78 kVA		13.3 kVA											

Load Classification	Connected Load	Demand Factor	Demand Load	Load Summary	
Heating	6000 VA	100.00%	6000 VA	**Total Connected Load:**	48036 VA
Motor	1176 VA	100.00%	1176 VA		
Power	0 VA	0.00%	0 VA	**Estimated Demand Load:**	32606 VA
Receptacle (10kVA + 50% REST)	40860 VA	62.24%	25430 VA		
				Estimated Demand Current:	91 A

Notes:

Panel: MDPL2

Design Selection:
Mains Rating: 400
Type: MCB
MCB Rating: 400

Voltage: 120/208 Wye
Phases: 3
Wires: 4
Mounting: SURFACE

Minimum A.I.C. Rating: 22,000
Location: ELECTRIC 219
Served From: TX2

Note	Tri...	Ø	Description	Set	Hot	Neut	Gnd	Cond	#	A		B		C		#	Cond	Gnd	Neut	Hot	Set	Description	Ø	Tri...	Note
	225 A	3	2A.1	1	3-#4/0	1-#4/0	1-#4	2-1/2"	1	13.13	3.05					2									
									3			12.59	2.51			4	2"	1-#8	1-#1	3-#1	1	2L	3	100 A	
									5					12.24	1.26	6									
--	20 A	1	SPARE	--	--	--	--	--	7	0.00	0.00					8	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	9			0.00	0.00			10	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	11					0.00	0.00	12	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	13	0.00	0.00					14	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	15			0.00	0.00			16	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	17					0.00	0.00	18	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	19	0.00	0.00					20	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	21			0.00	0.00			22	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	23					0.00	0.00	24	--	--	--	--	--	SPARE	1	20 A	--
--	--	1	SPACE	--	--	--	--	--	25	--	--					26	--	--	--	--	--	SPACE	1	--	--
--	--	1	SPACE	--	--	--	--	--	27			--	--			28	--	--	--	--	--	SPACE	1	--	--
--	--	1	SPACE	--	--	--	--	--	29					--	--	30	--	--	--	--	--	SPACE	1	--	--
--	--	1	SPACE	--	--	--	--	--	31	--	--					32	--	--	--	--	--	SPACE	1	--	--
--	--	1	SPACE	--	--	--	--	--	33			--	--			34	--	--	--	--	--	SPACE	1	--	--
--	--	1	SPACE	--	--	--	--	--	35					--	--	36	--	--	--	--	--	SPACE	1	--	--
--	--	1	SPACE	--	--	--	--	--	37	--	0.00					38									
--	--	1	SPACE	--	--	--	--	--	39			--	0.00			40	3/4"	1-#10	1-#10	3-#10	1	SPD	3	30 A	
--	--	1	SPACE	--	--	--	--	--	41					--	0.00	42									
								Total		16.18 kVA		15.1 kVA		13.5 kVA											

Load Classification	Connected Load	Demand Factor	Demand Load	Load Summary	
HVAC	2496 VA	85.00%	2122 VA	**Total Connected Load:**	44776 VA
Heating	4300 VA	100.00%	4300 VA		
Lighting	360 VA	125.00%	450 VA	**Estimated Demand Load:**	30952 VA
Motor	540 VA	100.00%	540 VA		
Power	0 VA	0.00%	0 VA	**Estimated Demand Current:**	86 A
Receptacle (10kVA + 50% REST)	37080 VA	63.48%	23540 VA		

Notes:

Panel: 1A.2

Design Selection:
Mains Rating: 225
Type: MLO
MCB Rating: N/A

Voltage: 120/208 Wye
Phases: 3
Wires: 4
Mounting: SURFACE

Minimum A.I.C. Rating: 10,000
Location: ELECTRIC 123
Served From: 1A.1

Note	Tri...	Ø	Description	Set	Hot	Neut	Gnd	Cond	#	A		B		C		#	Cond	Gnd	Neut	Hot	Set	Description	Ø	Tri...	Note
	20 A	1	RCPT OFFICE 102	1	1-#12	1-#12	1-#12	3/4"	43	0.72	1.80					44	1"	1-#8	1-#8	1-#8	1	RCPT 108,109,110	1	20 A	
	20 A	1	RCPT 100,131	1	1-#10	1-#10	1-#10	3/4"	45			1.44	1.80			46	1"	1-#8	1-#8	1-#8	1	RCPT 106,107,108	1	20 A	
	20 A	1	RCPT CLASS ROOM #6 133	1	1-#12	1-#12	1-#12	3/4"	47					0.18	1.18	48	3/4"	1-#12	1-#12	1-#12	1	SUMP PUMP RCPT ELEV E1	1	20 A	
	20 A	1	RCPT CLASS ROOM #6 133	1	1-#10	1-#10	1-#10	3/4"	49	0.90	0.18					50	3/4"	1-#12	1-#12	1-#12	1	RCPT (PIT LTG & RCPT) ELEV E1	1	20 A	
	20 A	1	RCPT CLASS ROOM #6 133	1	1-#12	1-#12	1-#12	3/4"	51			0.54	0.90			52	3/4"	1-#10	1-#10	1-#10	1	RCPT 112,121,126,128A	1	20 A	
	20 A	1	RCPT 138,139	1	1-#6	1-#6	1-#6	1-1/4"	53					1.44	0.90	54	3/4"	1-#10	1-#10	1-#10	1	RCPT CORRIDOR 101	1	20 A	
1	20 A	1	RCPT (EWC) CORRIDOR 101	1	1-#12	1-#12	1-#12	3/4"	55	0.36	0.90					56	1-1/4"	1-#6	1-#6	1-#6	1	RCPT DINING ROOM 147	1	20 A	
1	20 A	1	RCPT (EWC) CORRIDOR 101	1	1-#12	1-#12	1-#12	3/4"	57			0.36	0.90			58	1"	1-#8	1-#8	1-#8	1	RCPT 145,147	1	20 A	
1	20 A	1	RCPT (EWC) CORRIDOR 101	1	1-#12	1-#12	1-#12	3/4"	59					0.36	1.20	60	1"	1-#8	1-#8	1-#8	1	HAND DRYER 112	1	20 A	
	20 A	1	RCPT 123,124	1	1-#12	1-#12	1-#12	3/4"	61	0.54	1.20					62	3/4"	1-#12	1-#12	1-#12	1	HAND DRYER 121	1	20 A	
2	20 A	1	FACP ELECTRIC 123	1	1-#12	1-#12	1-#12	3/4"	63			0.00	1.20			64	3/4"	1-#12	1-#12	1-#12	1	HAND DRYER 121	1	20 A	
--	20 A	1	SPARE	--	--	--	--	--	65					0.00	1.20	66	3/4"	1-#10	1-#10	1-#10	1	HAND DRYER 135	1	20 A	
--	20 A	1	SPARE	--	--	--	--	--	67	0.00	1.20					68	3/4"	1-#10	1-#10	1-#10	1	HAND DRYER 135	1	20 A	
--	20 A	1	SPARE	--	--	--	--	--	69			0.00	0.00			70	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	71					0.00	0.00	72	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	73	0.00	0.00					74	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	75			0.00	0.00			76	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	77					0.00	0.00	78	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	79	0.00	0.00					80									
--	20 A	1	SPARE	--	--	--	--	--	81			0.00	0.00			82	3/4"	1-#10	1-#10	3-#10	1	SPD	3	30 A	
--	20 A	1	SPARE	--	--	--	--	--	83					0.00	0.00	84									
								Total		7.8 kVA		7.14 kVA		6.46 kVA											

Load Classification	Connected Load	Demand Factor	Demand Load	Load Summary	
Heating	6000 VA	100.00%	6000 VA	**Total Connected Load:**	21396 VA
Motor	1176 VA	100.00%	1176 VA		
Power	0 VA	0.00%	0 VA	**Estimated Demand Load:**	19286 VA
Receptacle (10kVA + 50% REST)	14220 VA	85.16%	12110 VA		
				Estimated Demand Current:	54 A

Notes:
1. GFCI CIRCUIT BREAKER: PROVIDE GFCI CIRCUIT BREAKER. CIRCUIT BREAKER SHALL BE LISTED AND LABELED AS A CLASS A GFCI DEVICE (5MA TRIP THRESHOLD).
2. FACP BREAKER. BREAKER SHALL BE EQUIPPED WITH LOCK-ON DEVICE

REVISION

REV#	DATE	
1	TBD	TBD

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LAKEFRONT BOY'S SCHOOL

OKEECHOBEE, FL

DRAWING TITLE
ELECTRICAL PANELS

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ENGINEER OF RECORD

PRELIMINARY NOT FOR CONSTRUCTION

DAVID E. ALLEY, PE
PE #55008

DATE: 03/02/2026
SCALE:
PROJ. NO. : 250222
DESIGNED BY: DCS
DRAWN BY: DCS
CHECKED BY: DEA
DRAWING NO.: E704

Panel: 1L

Design Selection:
Mains Rating: 100
Type: MLO
MCB Rating: N/A

Voltage: 120/208 Wye
Phases: 3
Wires: 4
Mounting: SURFACE

Minimum A.I.C. Rating: 10,000
Location: ELECTRIC 123
Served From: MDPL1

Note	Tri...	Ø	Description	Set	Hot	Neut	Gnd	Cond	#	A	B	C	#	Cond	Gnd	Neut	Hot	Set	Description	Ø	Tri...	Note
	20 A	3	IRRIGATION PUMP	1	3-#12	-	1-#12	3/4"	1	0.40 1.20			2	1"	1-#8	1-#8	1-#8	1	HAND DRYER BATHROOM 140	1	20 A	
									3		0.40 1.20		4	1"	1-#8	1-#8	1-#8	1	HAND DRYER BATHROOM 140	1	20 A	
									5			0.40 1.20	6	1-1/4"	1-#6	1-#6	1-#6	1	HAND DRYER BATHROOM 145	1	20 A	
	25 A	2	IWH-1 TEACHER RM 128	1	2-#10	-	1-#10	3/4"	7	2.15 1.20			8	1-1/4"	1-#6	1-#6	1-#6	1	HAND DRYER BATHROOM 145	1	20 A	
									9		2.15 0.18		10	3/4"	1-#12	1-#12	1-#12	1	RCPT (IT) ELECTRIC 123	1	20 A	
	20 A	1	RCP-1 JANITORS 136	1	1-#12	1-#12	1-#12	3/4"	11		0.60 0.18		12	3/4"	1-#12	1-#12	1-#12	1	RCPT (IT) ELECTRIC 123	1	20 A	
	20 A	1	SITE SIGNAGE	1	1-#6	1-#6	1-#6	1-1/4"	13	1.20 0.18			14	3/4"	1-#12	1-#12	1-#12	1	RCPT (IT) ELECTRIC 123	1	20 A	
--	20 A	1	SPARE	--	--	--	--	--	15		0.00 0.00		16	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	17			0.00 0.00	18	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	19	0.00 0.00			20	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	21		0.00 0.00		22	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	23			0.00 0.00	24	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	25	0.00 0.00			26	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	27		0.00 0.00		28	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	29			0.00 0.00	30	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	31	0.00 0.00			32	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	33		0.00 0.00		34	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	35			0.00 0.00	36	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	37	0.00 0.00			38									
--	20 A	1	SPARE	--	--	--	--	--	39		0.00 0.00		40	3/4"	1-#10	1-#10	3-#10	1	SPD	3	30 A	
--	20 A	1	SPARE	--	--	--	--	--	41			0.00 0.00	42									
								Total		6.33 kVA	3.93 kVA	2.38 kVA										

Load Classification	Connected Load	Demand Factor	Demand Load	Load Summary	
Equipment	600 VA	100.00%	600 VA	**Total Connected Load:**	12640 VA
Heating	9100 VA	100.00%	9100 VA		
Power	2400 VA	100.00%	2400 VA	**Estimated Demand Load:**	12640 VA
Receptacle (10kVA + 50% REST)	540 VA	100.00%	540 VA		
				Estimated Demand Current:	35 A

Notes:

Panel: 2A.1

Design Selection:
Mains Rating: 225
Type: MLO
MCB Rating: N/A

Voltage: 120/208 Wye
Phases: 3
Wires: 4
Mounting: SURFACE

Minimum A.I.C. Rating: 10,000
Location: ELECTRIC 219
Served From: MDPL2

Note	Tri...	Ø	Description	Set	Hot	Neut	Gnd	Cond	#	A	B	C	#	Cond	Gnd	Neut	Hot	Set	Description	Ø	Tri...	Note
	20 A	1	RCPT BEIS MEDRASH 211	1	1-#10	1-#10	1-#10	3/4"	1	0.72 0.18			2	3/4"	1-#12	1-#12	1-#12	1	RCPT CLASSROOM #15 225	1	20 A	
	20 A	1	RCPT OFFICE 210	1	1-#12	1-#12	1-#12	3/4"	3		0.72 0.54		4	3/4"	1-#12	1-#12	1-#12	1	RCPT CLASSROOM #15 225	1	20 A	
	20 A	1	RCPT 207,208,209	1	1-#8	1-#8	1-#8	1"	5			1.80 0.90	6	3/4"	1-#10	1-#10	1-#10	1	RCPT CLASSROOM #15 225	1	20 A	
	20 A	1	RCPT 205,206,207	1	1-#8	1-#8	1-#8	1"	7	1.80 0.54			8	3/4"	1-#12	1-#12	1-#12	1	RCPT CLASSROOM #16 227	1	20 A	
	20 A	1	RCPT CLASSROOM #9 204	1	1-#10	1-#10	1-#10	3/4"	9		0.90 0.90		10	3/4"	1-#10	1-#10	1-#10	1	RCPT CLASSROOM #16 227	1	20 A	
	20 A	1	RCPT CLASSROOM #9 204	1	1-#12	1-#12	1-#12	3/4"	11			0.18 0.18	12	3/4"	1-#12	1-#12	1-#12	1	RCPT CLASSROOM #16 227	1	20 A	
	20 A	1	RCPT CLASSROOM #9 204	1	1-#12	1-#12	1-#12	3/4"	13	0.54 0.54			14	3/4"	1-#12	1-#12	1-#12	1	RCPT CLASSROOM #17 228	1	20 A	
	20 A	1	RCPT CLASSROOM #10 203	1	1-#12	1-#12	1-#12	3/4"	15		0.18 0.90		16	3/4"	1-#10	1-#10	1-#10	1	RCPT CLASSROOM #17 228	1	20 A	
	20 A	1	RCPT CLASSROOM #10 203	1	1-#10	1-#10	1-#10	3/4"	17			0.90 0.18	18	3/4"	1-#12	1-#12	1-#12	1	RCPT CLASSROOM #17 228	1	20 A	
	20 A	1	RCPT CLASSROOM #10 203	1	1-#12	1-#12	1-#12	3/4"	19	0.54 1.44			20	1-1/4"	1-#6	1-#6	1-#6	1	RCPT 229,230	1	20 A	
	20 A	1	RCPT CLASSROOM #11 202	1	1-#12	1-#12	1-#12	3/4"	21		0.54 0.72		22	3/4"	1-#10	1-#10	1-#10	1	RCPT PRINCIPAL 233	1	20 A	
	20 A	1	RCPT CLASSROOM #11 202	1	1-#12	1-#12	1-#12	3/4"	23			0.90 0.36	24	3/4"	1-#12	1-#12	1-#12	1	RCPT (EWC) COORIDOR 200	1	20 A	1
	20 A	1	RCPT CLASSROOM #11 202	1	1-#12	1-#12	1-#12	3/4"	25	0.18 0.54			26	3/4"	1-#12	1-#12	1-#12	1	RCPT CLASSROOM #14 224	1	20 A	
	20 A	1	RCPT OFFICE 201	1	1-#12	1-#12	1-#12	3/4"	27		0.90 0.18		28	3/4"	1-#12	1-#12	1-#12	1	RCPT CLASSROOM #14 224	1	20 A	
	20 A	1	RCPT CLASSROOM #13 218	1	1-#12	1-#12	1-#12	3/4"	29			0.18 0.90	30	3/4"	1-#12	1-#12	1-#12	1	RCPT CLASSROOM #14 224	1	20 A	
	20 A	1	RCPT CLASSROOM #13 218	1	1-#12	1-#12	1-#12	3/4"	31	0.54 1.08			32	3/4"	1-#12	1-#12	1-#12	1	RCPT 220,222	1	20 A	
	20 A	1	RCPT CLASSROOM #13 218	1	1-#12	1-#12	1-#12	3/4"	33		0.90 0.54		34	3/4"	1-#12	1-#12	1-#12	1	RCPT STORAGE 223	1	20 A	
	20 A	1	RCPT CLASSROOM #12 217	1	1-#12	1-#12	1-#12	3/4"	35			0.90 0.72	36	3/4"	1-#12	1-#12	1-#12	1	RCPT TUTOR 216	1	20 A	
	20 A	1	RCPT CLASSROOM #12 217	1	1-#12	1-#12	1-#12	3/4"	37	0.54 0.54			38	3/4"	1-#12	1-#12	1-#12	1	RCPT 212,213	1	20 A	
	20 A	1	RCPT CLASSROOM #12 217	1	1-#12	1-#12	1-#12	3/4"	39		0.18 1.44		40	1-1/4"	1-#6	1-#6	1-#6	1	RCPT 231,232	1	20 A	
	20 A	1	RCPT BEIS MEDRASH 211	1	1-#10	1-#10	1-#10	3/4"	41			0.72 1.26	42	3/4"	1-#12	1-#12	1-#12	1	RCPT 214,215	1	20 A	
								Total		13.13 kVA	12.59 kVA	12.24 kVA										

Load Classification	Connected Load	Demand Factor	Demand Load	Load Summary	
HVAC	2496 VA	85.00%	2122 VA	**Total Connected Load:**	37956 VA
Lighting	360 VA	125.00%	450 VA		
Motor	540 VA	100.00%	540 VA	**Estimated Demand Load:**	25392 VA
Power	0 VA	0.00%	0 VA		
Receptacle (10kVA + 50% REST)	34560 VA	64.47%	22280 VA	**Estimated Demand Current:**	70 A

Notes:
GFCI CIRCUIT BREAKER: PROVIDE GFCI CIRCUIT BREAKER FOR THIS CIRCUIT AT SERVING PANEL PER NEC REQUIREMENTS. CIRCUIT BREAKER SHALL BE LISTED AND LABELED AS A CLASS A GFCI DEVICE (5MA TRIP THRESHOLD). REFER TO PANEL SCHEDULES FOR CIRCUIT ASSIGNMENT.

Panel: 2L

Design Selection:
Mains Rating: 100
Type: MLO
MCB Rating: N/A

Voltage: 120/208 Wye
Phases: 3
Wires: 4
Mounting: SURFACE

Minimum A.I.C. Rating: 10,000
Location: ELECTRIC 219
Served From: MDPL2

Note	Tri...	Ø	Description	Set	Hot	Neut	Gnd	Cond	#	A	B	C	#	Cond	Gnd	Neut	Hot	Set	Description	Ø	Tri...	Note
	25 A	2	IWH-2 TEACHER'S RM 222	1	2-#10	-	1-#10	3/4"	1	2.15 0.00			2	--	--	--	--	--	SPARE	1	20 A	--
									3		2.15 0.00		4	--	--	--	--	--	SPARE	1	20 A	--
	20 A	1	RCPT ROOF	1	1-#10	1-#10	1-#10	3/4"	5			0.90 0.00	6	--	--	--	--	--	SPARE	1	20 A	--
	20 A	1	RCPT ROOF	1	1-#10	1-#10	1-#10	3/4"	7	0.54 0.00			8	--	--	--	--	--	SPARE	1	20 A	--
	20 A	1	RCPT (IT) ELECTRIC 219	1	1-#12	1-#12	1-#12	3/4"	9		0.36 0.00		10	--	--	--	--	--	SPARE	1	20 A	--
	20 A	1	RCPT (IT) ELECTRIC 219	1	1-#12	1-#12	1-#12	3/4"	11			0.36 0.00	12	--	--	--	--	--	SPARE	1	20 A	--
	20 A	1	RCPT (IT) ELECTRIC 219	1	1-#12	1-#12	1-#12	3/4"	13	0.36 0.00			14	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	15		0.00 0.00		16	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	17			0.00 0.00	18	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	19	0.00 0.00			20	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	21		0.00 0.00		22	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	23			0.00 0.00	24	--	--	--	--	--	SPARE	1	20 A	--
--	--	1	SPACE	--	--	--	--	--	25	-- --			26	--	--	--	--	--	SPACE	1	--	--
--	--	1	SPACE	--	--	--	--	--	27		-- --		28	--	--	--	--	--	SPACE	1	--	--
--	--	1	SPACE	--	--	--	--	--	29			-- --	30	--	--	--	--	--	SPACE	1	--	--
--	--	1	SPACE	--	--	--	--	--	31	-- --			32	--	--	--	--	--	SPACE	1	--	--
--	--	1	SPACE	--	--	--	--	--	33		-- --		34	--	--	--	--	--	SPACE	1	--	--
--	--	1	SPACE	--	--	--	--	--	35			-- --	36	--	--	--	--	--	SPACE	1	--	--
--	--	1	SPACE	--	--	--	--	--	37	-- 0.00			38									
--	--	1	SPACE	--	--	--	--	--	39		-- 0.00		40	3/4"	1-#12	1-#10	3-#10	1	SPD	3	20 A	
--	--	1	SPACE	--	--	--	--	--	41			-- 0.00	42									
								Total		3.05 kVA	2.51 kVA	1.26 kVA										

Load Classification	Connected Load	Demand Factor	Demand Load	Load Summary	
Heating	4300 VA	100.00%	4300 VA	**Total Connected Load:**	6820 VA
Power	0 VA	0.00%	0 VA		
Receptacle (10kVA + 50% REST)	2520 VA	100.00%	2520 VA	**Estimated Demand Load:**	6820 VA
				Estimated Demand Current:	19 A

Notes:

Panel: 2A.2

Design Selection:
Mains Rating: 225
Type: MLO
MCB Rating: N/A

Voltage: 120/208 Wye
Phases: 3
Wires: 4
Mounting: SURFACE

Minimum A.I.C. Rating: 10,000
Location: ELECTRIC 219
Served From: 2A.1

Note	Tri...	Ø	Description	Set	Hot	Neut	Gnd	Cond	#	A	B	C	#	Cond	Gnd	Neut	Hot	Set	Description	Ø	Tri...	Note
	20 A	2	EF-1 ROOF	1	2-#12	-	1-#12	3/4"	43	1.25 0.36			44	3/4"	1-#12	1-#12	1-#12	1	RCPT (EWC) COORIDOR 200	1	20 A	1
									45		1.25 0.36		46	3/4"	1-#12	1-#12	1-#12	1	RCPT (EWC) COORIDOR 200	1	20 A	1
	20 A	1	RCPT KITCHEN ROOF	1	1-#10	1-#10	1-#10	3/4"	47			0.72 0.36	48	3/4"	1-#12	1-#12	1-#12	1	RCPT (EWC) COORIDOR 200	1	20 A	1
	20 A	1	RCPT 200,226,234,235	1	1-#8	1-#8	1-#8	1"	49	1.08 0.18			50	3/4"	1-#12	1-#12	1-#12	1	RCPT (EWC) COORIDOR 200	1	20 A	1
	20 A	1	RCPT COORIDOR 200	1	1-#10	1-#10	1-#10	3/4"	51		1.08 0.18		52	3/4"	1-#12	1-#12	1-#12	1	HAND DRYER GANG BATH 212	1	20 A	
	20 A	1	RCPT TEACHER'S RM 222	1	1-#12	1-#12	1-#12	3/4"	53			0.36 0.18	54	3/4"	1-#12	1-#12	1-#12	1	HAND DRYER 226	1	20 A	
	20 A	1	LTG (ELEV. CAB LTG) E1	1	1-#12	1-#12	1-#12	3/4"	55	0.36 0.18			56	3/4"	1-#12	1-#12	1-#12	1	HAND DRYER 226	1	20 A	
--	20 A	1	SPARE	--	--	--	--	--	57		0.00 0.18		58	3/4"	1-#12	1-#12	1-#12	1	RCPT ELECTRIC 219	1	20 A	
--	20 A	1	SPARE	--	--	--	--	--	59			0.00 0.54	60	3/4"	1-#12	1-#12	1-#12	1	RCPT 221,222A,222B	1	20 A	
--	20 A	1	SPARE	--	--	--	--	--	61	0.00 0.00			62	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	63		0.00 0.00		64	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	65			0.00 0.00	66	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	67	0.00 0.00			68	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	69		0.00 0.00		70	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	71			0.00 0.00	72	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	73	0.00 0.00			74	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	75		0.00 0.00		76	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	77			0.00 0.00	78	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	79	0.00 0.00			80									
--	20 A	1	SPARE	--	--	--	--	--	81		0.00 0.00		82	3/4"	1-#10	1-#10	3-#10	1	SPD	3	30 A	
--	20 A	1	SPARE	--	--	--	--	--	83			0.00 0.00	84									
								Total		3.41 kVA	3.05 kVA	2.16 kVA										

Load Classification	Connected Load	Demand Factor	Demand Load	Load Summary	
HVAC	2496 VA	85.00%	2122 VA	**Total Connected Load:**	8616 VA
Lighting	360 VA	125.00%	450 VA		
Motor	540 VA	100.00%	540 VA	**Estimated Demand Load:**	8332 VA
Power	0 VA	0.00%	0 VA		
Receptacle (10kVA + 50% REST)	5220 VA	100.00%	5220 VA	**Estimated Demand Current:**	23 A

Notes:
GFCI CIRCUIT BREAKER: PROVIDE GFCI CIRCUIT BREAKER FOR THIS CIRCUIT AT SERVING PANEL PER NEC REQUIREMENTS. CIRCUIT BREAKER SHALL BE LISTED AND LABELED AS A CLASS A GFCI DEVICE (5MA TRIP THRESHOLD). REFER TO PANEL SCHEDULES FOR CIRCUIT ASSIGNMENT.

REVISION

REV#	DATE	
1	TBD	TBD

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CONSTRUCTION ENGINEERING GROUP
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LAKEFRONT BOY'S SCHOOL
OKEECHOBEE, FL

DRAWING TITLE
ELECTRICAL PANELS

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ENGINEER OF RECORD

PRELIMINARY NOT FOR CONSTRUCTION

DAVID E. ALLEY, PE
PE #55008

DATE: 03/02/2026
SCALE:
PROJ. NO. : 250222
DESIGNED BY: DCS
DRAWN BY: DCS
CHECKED BY: DEA
DRAWING NO.: E705

Panel: KL1.1

Design Selection:
Mains Rating: 400
Type: MCB
MCB Rating: 400

Voltage: 120/208 Wye
Phases: 3
Wires: 4
Mounting: RECESSED (NEMA 4X STAINLESS)

Minimum A.I.C. Rating: 10,000
Location: KITCHEN 141
Served From: MDPL1

Note	Tri...	Ø	Description	Set	Hot	Neut	Gnd	Cond	#	A	B	C	#	Cond	Gnd	Neut	Hot	Set	Description	Ø	Tri...	Note
1	100 A	2	D2 RANGE 36" RM 141	1	2-#1	-	1-#8	2"	1	8.65 5.77			2									
									3		8.65 5.77		4	2"	1-#6	-	3-#1/0	1	D4 SKILLET BRAISING RM 141	3	125 A	1
--	--	1	SPACE FOR SHUNT	--	--	--	--	--	5			-- 5.77	6									
1	90 A	3	D7 CONVECTION OVEN RM 141	1	3-#2	-	1-#8	1-1/2"	7	8.00 --			8	--	--	--	--	--	SPACE FOR SHUNT	1	--	--
									9		8.00 8.00		10									
									11			8.00 8.00	12	1-1/2"	1-#8	-	3-#2	1	D7 CONVECTION OVEN RM 141	3	90 A	1
--	--	1	SPACE FOR SHUNT	--	--	--	--	--	13	-- 8.00			14									
--	20 A	1	SPARE	--	--	--	--	--	15		0.00 --		16	--	--	--	--	--	SPACE FOR SHUNT	1	--	--
--	20 A	1	SPARE	--	--	--	--	--	17			0.00 0.00	18	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	19	0.00 0.00			20	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	21		0.00 0.00		22	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	23			0.00 0.00	24	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	25	0.00 0.00			26	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	27		0.00 0.00		28	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	29			0.00 0.00	30	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	31	0.00 0.00			32	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	33		0.00 0.00		34	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	35			0.00 0.00	36	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	37	0.00 0.00			38	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	39		0.00 0.00		40	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	41			0.00 0.00	42	--	--	--	--	--	SPARE	1	20 A	--
								Total		48.16 kVA	47.55 kVA	38.81 kVA										

Load Classification	Connected Load	Demand Factor	Demand Load	Load Summary	
Kitchen	130158 VA	65.00%	84603 VA	**Total Connected Load:**	134510 VA
Power	2912 VA	100.00%	2912 VA		
Receptacle (10kVA + 50% REST)	1440 VA	100.00%	1440 VA	**Estimated Demand Load:**	88955 VA
				Estimated Demand Current:	247 A

Notes:
1. PROVIDE SHUNT TRIP BRANCH CIRCUIT BREAKERS FOR ALL ELECTRICAL COOKING EQUIPMENT SERVED BENEATH THE KITCHEN EXHAUST HOOD; WIRE SHUNT TRIP COILS IN PARALLEL TO FIRE SUPPRESSION SYSTEM DRY CONTACTS PER NFPA 96.

Panel: KL2.1

Design Selection:
Mains Rating: 400
Type: MCB
MCB Rating: 400

Voltage: 120/208 Wye
Phases: 3
Wires: 4
Mounting: RECESSED (NEMA 4X STAINLESS)

Minimum A.I.C. Rating: 10,000
Location: KITCHEN 141
Served From: MDPL1

Note	Tri...	Ø	Description	Set	Hot	Neut	Gnd	Cond	#	A	B	C	#	Cond	Gnd	Neut	Hot	Set	Description	Ø	Tri...	Note
1	100 A	2	M2 RANGE 36" RM 141	1	2-#1	-	1-#8	2"	1	8.65 5.77			2									
									3		8.65 5.77		4	2"	1-#6	-	3-#1/0	1	M4 SKILLET BRAISING RM 141	3	125 A	1
--	--	1	SPACE FOR SHUNT	--	--	--	--	--	5			-- 5.77	6									
1	90 A	3	M7 CONVECTION OVEN RM 141	1	3-#2	-	1-#8	1-1/2"	7	8.00 --			8	--	--	--	--	--	SPACE FOR SHUNT	1	--	--
									9		8.00 8.00		10									
									11			8.00 8.00	12	1-1/2"	1-#8	-	3-#2	1	M7 CONVECTION OVEN RM 141	3	90 A	1
--	--	1	SPACE FOR SHUNT	--	--	--	--	--	13	-- 8.00			14									
--	20 A	1	SPARE	--	--	--	--	--	15		0.00 --		16	--	--	--	--	--	SPACE FOR SHUNT	1	--	--
--	20 A	1	SPARE	--	--	--	--	--	17			0.00 0.00	18	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	19	0.00 0.00			20	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	21		0.00 0.00		22	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	23			0.00 0.00	24	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	25	0.00 0.00			26	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	27		0.00 0.00		28	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	29			0.00 0.00	30	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	31	0.00 0.00			32	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	33		0.00 0.00		34	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	35			0.00 0.00	36	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	37	0.00 0.00			38	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	39		0.00 0.00		40	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	41			0.00 0.00	42	--	--	--	--	--	SPARE	1	20 A	--
								Total		41.24 kVA	40.76 kVA	30.66 kVA										

Load Classification	Connected Load	Demand Factor	Demand Load	Load Summary	
Kitchen	108308 VA	65.00%	70400 VA	**Total Connected Load:**	112660 VA
Power	2912 VA	100.00%	2912 VA		
Receptacle (10kVA + 50% REST)	1440 VA	100.00%	1440 VA	**Estimated Demand Load:**	74752 VA
				Estimated Demand Current:	207 A

Notes:
1. PROVIDE SHUNT TRIP BRANCH CIRCUIT BREAKERS FOR ALL ELECTRICAL COOKING EQUIPMENT SERVED BENEATH THE KITCHEN EXHAUST HOOD; WIRE SHUNT TRIP COILS IN PARALLEL TO FIRE SUPPRESSION SYSTEM DRY CONTACTS PER NFPA 96.

Panel: KL1.2

Design Selection:
Mains Rating: 400
Type: MCB
MCB Rating: 400

Voltage: 120/208 Wye
Phases: 3
Wires: 4
Mounting: RECESSED (NEMA 4X STAINLESS)

Minimum A.I.C. Rating: 10,000
Location: KITCHEN 141
Served From: KL1.1

Note	Tri...	Ø	Description	Set	Hot	Neut	Gnd	Cond	#	A	B	C	#	Cond	Gnd	Neut	Hot	Set	Description	Ø	Tri...	Note
	20 A	1	D1 HOOD CONTROL #1 RM 141	1	1-#12	1-#12	1-#12	3/4"	1	0.60 6.00			2									
	20 A	1	D1 HOOD CONTROL #2 RM 141	1	1-#12	1-#12	1-#12	3/4"	3		0.60 6.00		4	1-1/4"	1-#10	-	3-#4	1	D1 (RTU-10) KITCH. ROOF	3	60 A	
	20 A	1	D10 MOBILE HEATED RM 141	1	1-#12	1-#12	1-#12	3/4"	5			1.47 6.00	6									
	15 A	1	D20 FOOD PROCESSOR RM 141	1	1-#12	1-#12	1-#12	3/4"	7	0.84 1.44			8									
	20 A	1	W1 DEFROSTER RM 141	1	1-#12	1-#12	1-#12	3/4"	9		0.36 1.44		10	3/4"	1-#12	-	3-#12	1	D14 PLANETARY MIXER RM 141	3	15 A	
	20 A	1	RCPT RM 141	1	1-#12	1-#12	1-#12	3/4"	11			0.72 1.44	12									
	20 A	1	RCPT RM 141	1	1-#12	1-#12	1-#12	3/4"	13	0.72 0.73			14	3/4"	1-#12	-	2-#12	1	D1 (EF-4) RM ROOF KITCH. ROOF	2	15 A	
	20 A	1	RCPT RM 141	1	1-#12	1-#12	1-#12	3/4"	15		0.72 0.73		16									
	35 A	3	W1 FREEZER CONDENSING	1	3-#8	-	1-#10	1"	17			2.98 0.73	18	3/4"	1-#12	-	2-#12	1	D1 (EF-5) RM ROOF KITCH. ROOF	2	15 A	
									19	2.98 0.73			20									
									21		2.98 0.60		22	3/4"	1-#12	1-#12	1-#12	1	EF-2 KITCH. ROOF	1	15 A	
	20 A	3	W1 FREEZER DEFROSTER RM 141	1	3-#12	-	1-#12	3/4"	23			1.30 0.00	24	--	--	--	--	--	SPARE	1	20 A	--
									25	1.30 0.00			26	--	--	--	--	--	SPARE	1	20 A	--
									27		1.30 0.00		28	--	--	--	--	--	SPARE	1	20 A	--
	30 A	3	W1 FREEZER CONDENSING	1	3-#10	-	1-#10	3/4"	29			2.40 0.00	30	--	--	--	--	--	SPARE	1	20 A	--
									31	2.40 0.00			32	--	--	--	--	--	SPARE	1	20 A	--
									33		2.40 0.00		34	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	35			0.00 0.00	36	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	37	0.00 0.00			38									
--	20 A	1	SPARE	--	--	--	--	--	39		0.00 0.00		40	3/4"	1-#10	1-#10	3-#10	1	SPD	3	30 A	
--	20 A	1	SPARE	--	--	--	--	--	41			0.00 0.00	42									
								Total		17.74 kVA	17.13 kVA	17.04 kVA										

Load Classification	Connected Load	Demand Factor	Demand Load	Load Summary	
Kitchen	47558 VA	65.00%	30913 VA	**Total Connected Load:**	51910 VA
Power	2912 VA	100.00%	2912 VA		
Receptacle (10kVA + 50% REST)	1440 VA	100.00%	1440 VA	**Estimated Demand Load:**	35265 VA
				Estimated Demand Current:	98 A

Notes:

Panel: KL2.2

Design Selection:
Mains Rating: 400
Type: MCB
MCB Rating: 400

Voltage: 120/208 Wye
Phases: 3
Wires: 4
Mounting: RECESSED (NEMA 4X STAINLESS)

Minimum A.I.C. Rating: 10,000
Location: KITCHEN 141
Served From: KL2.1

Note	Tri...	Ø	Description	Set	Hot	Neut	Gnd	Cond	#	A	B	C	#	Cond	Gnd	Neut	Hot	Set	Description	Ø	Tri...	Note
	20 A	1	M10 MOBILE HEATED RM 140	1	1-#12	1-#12	1-#12	3/4"	43	1.47 0.58			44									
	20 A	1	M10 MOBILE HEATED RM 140	1	1-#12	1-#12	1-#12	3/4"	45		1.47 0.58		46	3/4"	1-#12	-	3-#12	1	M22 POTATO PEELER RM 141	3	15 A	
	20 A	1	M1 HOOD CONTROL #2 RM...	1	1-#12	1-#12	1-#12	3/4"	47			0.60 0.58	48									
	20 A	1	M1 HOOD CONTROL #1 RM...	1	1-#12	1-#12	1-#12	3/4"	49	0.60 6.00			50									
	15 A	1	M19 FOOD PROCESSOR RM 141	1	1-#12	1-#12	1-#12	3/4"	51		0.84 6.00		52	1-1/4"	1-#10	-	3-#4	1	M1 (RTU-11) KITCH. ROOF	3	60 A	
	15 A	1	S12 REFRIGERATOR RM 140	1	1-#12	1-#12	1-#12	3/4"	53			0.38 6.00	54									
	20 A	1	RCPT RM 141	1	1-#12	1-#12	1-#12	3/4"	55	0.72 0.73			56	3/4"	1-#12	-	2-#12	1	M1 (EF-6) RM ROOF KITCH. ROOF	2	15 A	
	20 A	1	RCPT RM 140	1	1-#12	1-#12	1-#12	3/4"	57		0.72 0.73		58									
	15 A	1	EF-3 KITCH. ROOF	1	1-#12	1-#12	1-#12	3/4"	59			0.60 0.73	60	3/4"	1-#12	-	2-#12	1	M1 (EF-7) RM ROOF KITCH. ROOF	2	15 A	
--	20 A	1	SPARE	--	--	--	--	--	61	0.00 0.73			62									
--	20 A	1	SPARE	--	--	--	--	--	63		0.00 0.00		64	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	65			0.00 0.00	66	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	67	0.00 0.00			68	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	69		0.00 0.00		70	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	71			0.00 0.00	72	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	73	0.00 0.00			74	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	75		0.00 0.00		76	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	77			0.00 0.00	78	--	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	--	79	0.00 0.00			80									
--	20 A	1	SPARE	--	--	--	--	--	81		0.00 0.00		82	3/4"	1-#10	1-#10	3-#10	1	SPD	3	30 A	
--	20 A	1	SPARE	--	--	--	--	--	83			0.00 0.00	84									
								Total		10.83 kVA	10.34 kVA	8.89 kVA										

Load Classification	Connected Load	Demand Factor	Demand Load	Load Summary	
Kitchen	25708 VA	65.00%	16710 VA	**Total Connected Load:**	30060 VA
Power	2912 VA	100.00%	2912 VA		
Receptacle (10kVA + 50% REST)	1440 VA	100.00%	1440 VA	**Estimated Demand Load:**	21062 VA
				Estimated Demand Current:	58 A

Notes:

REVISION

REV#	DATE	
1	TBD	TBD

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LAKEFRONT BOY'S SCHOOL

OKEECHOBEE, FL

DRAWING TITLE
ELECTRICAL PANELS

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DAVID E. ALLEY, PE
PE #55008

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