

PROJECT CODES		ABBREVIATIONS		GENERAL ELECTRICAL NOTES	
APPLICABLE CODES INTERNATIONAL BUILDING CODE - NJ EDITION 2024 REHABILITATION SUBCODE - NJAC 5-23-6 NATIONAL ELECTRIC CODE 2023		A.F.F. ABOVE FINISHED FLOOR ADC ABOVE DROP CEILING C, CND CONDUIT B.C. BELOW CEILING DISC. DISCONNECT DWG DRAWING (E) EXISTING ER EXISTING TO BE RELOCATED EWC ELECTRIC WATER COOLER ETR EXISTING TO REMAIN F.P.C. FIRE PROTECTION CONTRACTOR G, GND GROUND GEN GENERATOR GFCI GROUND FAULT CIRCUIT INTERRUPTER K.E.C. KITCHEN EQUIPMENT CONTRACTOR KW KILOWATTS KVA KILOVOLT AMPERES N.E.C. NATIONAL ELECTRIC CODE P.V.C. POLYVINYL CHLORIDE CONDUIT, SCHEDULE 40 R REMOVE RE RELOCATED EXISTING SW SWITCH TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR U.O.N. UNLESS OTHERWISE NOTED UG, UG UNDERGROUND WI WITH WG WIRE GUARD WP WEATHERPROOF PH PHASE V VOLT 4W FOUR WIRE 25A 25 AMPERES		1. SOME LEGEND SYMBOLS AND ELECTRICAL PROJECT NOTES MAY NOT BE USED. SEE PLANS FOR APPLICABLE DEVICES. 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2023 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE SPECIFICATION. 3. ALL CIRCUIT BREAKERS SERVING HVAC EQUIPMENT SHALL BE UL LISTED AS "HACR". 4. THE DRAWINGS ARE DIAGRAMMATIC. EXACT LOCATION OF EQUIPMENT, WIRING AND RACEWAYS SHALL BE DETERMINED BY CONTRACTOR SUBJECT TO ENGINEER APPROVAL. 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ELECTRICAL CHARACTERISTICS OF ALL NEW EQUIPMENT, MOTORS, ETC. BEFORE INSTALLING CABLING AND RACEWAY. IF THERE ARE ANY DISCREPANCIES BETWEEN THE ACTUAL RATING OF EQUIPMENT AT THE SITE AND THE DRAWINGS, THEN THE ENGINEER SHALL BE NOTIFIED. 6. ALL EMPTY CONDUITS SHALL HAVE A PULL STRING INSTALLED. 7. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS ON SITE, IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT. 8. ALL PANELS, WIRING DEVICES, BOXES, AND ENCLOSURES LOCATED OUTDOORS SHALL BE NEMA 3R. ALL PANELS, WIRING DEVICES, BOXES, AND ENCLOSURES LOCATED INDOORS SHALL BE NEMA 1. 9. ALL FUSES IN DISCONNECT SWITCHES SHOWN SHALL BE CLASS RK-1, FAST ACTING, UNLESS RECOMMENDED OTHERWISE BY THE EQUIPMENT SUPPLIER/MANUFACTURER. 10. THE ELECTRICAL CONTRACTOR TO PROVIDE MOUNTING SUPPORTS FOR ALL DISCONNECT SWITCHES. USE P1000 UNISTRUT FOR ALL INDOOR SUPPORTS AND GALVANIZED P1000 UNISTRUT FOR ALL OUTDOOR SUPPORTS. 11. ALL RACEWAYS PENETRATING FIRE RATED PARTITIONS, WALLS, AND CEILINGS SHALL BE SEALED USING APPROVED FIRE RATED SEALANT TO MATCH THE REQUIRED WALL FIRE RATING. 12. THE ELECTRICAL CONTRACTOR SHALL SECURE FROM OTHER CONTRACTORS ON THE PROJECT: SHOP DRAWINGS TO VERIFY CHARACTERISTICS OF ALL EQUIPMENT TO BE WIRED. IF THE CONTRACTOR FINDS DISCREPANCIES BETWEEN THE SHOP DRAWINGS AND THE ELECTRICAL PLANS, THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER PROMPTLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTIONS TO THE ELECTRICAL INSTALLATION IF THE DRAWING REVIEW IS NOT COMPLETED BY THE CONTRACTOR. 13. THE CONTRACTOR SHALL SUBMIT TO THE OWNER: CERTIFICATES OF INSPECTION FOR THE ELECTRICAL INSTALLATION FROM AN APPROVED INSPECTION AGENCY UPON COMPLETION OF ELECTRICAL WORK. 14. THE ENTIRE ELECTRICAL SYSTEM SHALL BE TESTED FOR PROPER GROUNDING AND OPERATION. TEST SHALL VERIFY THAT THE SYSTEM HAS NO SHORT CIRCUITS, OPENS, OVERLOADS, OR PANEL IMBALANCES. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND TEST INSTRUMENTS. ALL EQUIPMENT AND WIRING SYSTEMS SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE. 15. PRIOR TO FINAL ACCEPTANCE OF THE ELECTRICAL WORK, THE ELECTRICAL CONTRACTOR SHALL SUBMIT TO THE OWNER A WRITTEN STATEMENT GUARANTEEING ALL EQUIPMENT, MATERIALS, AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE PROJECT. UPON WRITTEN NOTICE TO THE CONTRACTOR DURING THE WARRANTY PERIOD, THE CONTRACTOR NO EXPENSE TO THE OWNER, SHALL REPAIR OR REPLACE ALL DEFECTIVE MATERIALS OR WORKMANSHIP. 16. ALL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATION MAINTENANCE, AND REPAIR. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO ACCOMPLISH THIS, SUBJECT TO THE APPROVAL OF THE ENGINEER. 17. ALL MATERIALS AND EQUIPMENT FURNISHED FOR THIS PROJECT SHALL BE NEW, LISTED, AND APPROVED BY UL. 18. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS, LICENSES AND PAY UTILITY COMPANY FEES WHERE REQUIRED. 19. ALL FUSED AND NON-FUSED DISCONNECT SWITCHES HAVE: 600 VOLT RATING FOR 480 VOLT CIRCUITS & 250 VOLT RATING FOR 208 VOLT CIRCUITS. SIZE FUSES TO COMPLY WITH NAMEPLATE RATING OF EQUIPMENT SERVED. 20. ELECTRICAL CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY ELECTRICAL LIGHT AND POWER AS REQUIRED FOR THE PROJECT WORK OF ALL TRADES DURING CONSTRUCTION. 21. ELECTRICAL CONTRACTOR SHALL CONCEAL ALL NEW WIRING ASSOCIATED WITH NEW SWITCH LOCATIONS AND RECEPTACLES. WITHIN EXISTING TILED MASONRY WALLS, CONTRACTOR SHALL INSTALL JUNCTION BOXES ABOVE DROP CEILINGS IN THE LOCATION OF THE NEW DEVICES AS NECESSARY TO ACCESS EXISTING MASONRY CELLS. PROVIDE APPROPRIATE WALL SEALANT MATCHING RATING OF EXISTING WALLS WHERE PENETRATIONS ARE MADE ABOVE DROP CEILINGS.	
MISC. DWG. SYMBOLS					
 POINT OF CONNECTION  EQUIPMENT SYMBOL/PLAN NUMBER  EQUIPMENT NUMBER OR FLOW (GPM, CFM, ETC.) / PLAN DRAWING NUMBER  KEYED NEW WORK NOTE  KEYED DEMOLITION NOTE					
SYMBOLS					
 208/120V PANELBOARD - SURFACE MOUNTED  480/277V PANELBOARD - SURFACE MOUNTED  208/120V PANELBOARD - RECESSED IN WALL  480/277V PANELBOARD - RECESSED IN WALL  UNFUSED SAFETY SWITCH - NO. INDICATES SWITCH AMPERE RATING  FUSED SAFETY SWITCH - NOS. INDICATE SWITCH/FUSE AMPERE RATINGS  FUSED COMBINATION MAGNETIC STARTER - NOS. INDICATE STARTER NEMA RATING & SWITCH/FUSE AMPERE RATINGS  BRANCH CIRCUIT WIRING - CONCEALED  HOME RUN TO PANELBOARD  DUPLEX RECEPTACLE - 125V, 20A-MOUNTED 18" A.F.F.  DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER PROTECTION - 125V, 20A-MOUNTED 18" A.F.F.  JUNCTION BOX - WALL MOUNT OR ABOVE CEILING (TYPICAL FOR ALL JUNCTION BOX SYMBOLS)  WALL MOUNTED LIGHTING SWITCH. SUBSCRIPTS DENOTE THE FOLLOWING: M - MOTOR-RATED  FIRE ALARM CONTROL PANEL  DOWNLIGHT LIGHTING FIXTURE  WALL PACK LIGHTING FIXTURE  WALL SCONCE LIGHTING FIXTURE  SECURITY CAMERA					
		ELECTRICAL DEMOLITION NOTES			
		1. NOTES AND GRAPHIC REPRESENTATIONS SHALL NOT LIMIT THE EXTENT OF DEMOLITION REQUIRED. CONTRACTOR SHALL VISIT THE SITE, CAREFULLY EXAMINE EXISTING CONDITIONS AND SHALL PERFORM ALL DEMOLITION REQUIRED TO ACHIEVE THE FINAL DESIGN INTENT AS REQUIRED BY THE CONTRACT DOCUMENTS. EXTENT OF ALL DEMOLITION WORK SHALL BE COORDINATED WITH THE OWNER & ENGINEER. 2. ALL WORK REQUIRED TO REMAIN IN SERVICE BUT INTERFERING WITH THE ALTERATIONS SHALL BE RELOCATED AND RECONNECTED USING MATERIALS AND STANDARDS OF THIS CONTRACT. 3. ANY EQUIPMENT AND WIRING TO BE REMOVED SHALL BE DE-ENERGIZED PRIOR TO ANY DEMOLITION WORK. 4. EQUIPMENT INDICATED TO BE REMOVED SHALL BE TAKEN FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS. EQUIPMENT REQUIRED TO BE TURNED OVER TO THE OWNER SHALL BE PLACED IN A MUTUALLY ACCEPTABLE LOCATION. 5. PROCEDURE FOR FEEDERS AND BRANCH CIRCUITS TO BE RE-USED - REMOVE CONDUIT AND WIRING TO LOCATIONS WHICH AVOID CONFLICTS WITH NEW WORK. INSTALL JUNCTION BOXES, TAPE OFF CONDUCTORS AND IDENTIFY WITH PANEL AND CIRCUIT NUMBER. 6. ALL WORK SHALL BE PROPERLY IDENTIFIED AFTER DEMOLITION. UPDATE ALL PANEL SCHEDULES TO REFLECT EQUIPMENT AND CIRCUIT REMOVALS.			

MOUNTING HEIGHT CHART - ELECTRICAL EQUIPMENT			
MOUNTING HEIGHT (AFF)	EQUIPMENT SYMBOL (OR REFER TO DESCRIPTION, NEXT COLUMN)	DESCRIPTION OF EQUIPMENT (DEVICES, OUTLETS, ETC.)	REMARKS
12'-0" U.O.N.		EXTERIOR WALL MOUNTED LIGHTING FIXTURES	SEE ARCHITECTURAL ELEVATIONS
10'-0" 8'-6"		BATTERY OPERATED EMERGENCY LIGHTING UNITS OR REMOTE MOUNTED HEADS	OR 1' BELOW CEILING WHICH EVER HEIGHT IS LOWER
8'-6"		PENDANT MOUNTED INDUSTRIAL AND STRIP LIGHTING FIXTURES	
8'-4"		WALL MOUNTED CLOCKS AND SPEAKERS	OR 9" BELOW CEILING WHICH EVER HEIGHT IS LOWER
7'-6"		TOP OF EXIT SIGNS (NOT MOUNTED ABOVE A DOOR)	
ENTIRE LENS NOT LESS THAN 8 1/2" & NOT GREATER THAN 96" AFF		FIRE ALARM NOTIFICATION DEVICES	
6'-6"		CENTERLINE OF INTERIOR WALL MOUNTED FIXTURES	
6'-0"		MAXIMUM ELEVATION OF DISCONNECT SWITCHES, STARTERS AND CONTACTORS	
4'-6"		MAXIMUM ELEVATION OF WALL MOUNTED PHONES	3'-6" FOR ADA DEVICES
4'-0"		WALL MOUNTED WIREMOLD	
3'-6"		WALL MOUNTED ELECTRICAL CONTROL DEVICES, SWITCHES, MANUAL MOTOR STARTERS	
OPERABLE PART OF PULL STATION NOT LESS THAN 3'-6" NOR MORE THAN 4'-0" AFF		WALL MOUNTED FIRE ALARM PULL STATION	
3'-0"		WALL MOUNTED RECEPTACLE IN MECHANICAL, ELECTRICAL, AND ELEVATOR ROOMS AND ON BUILDING EXTERIORS	
1'-6"		WALL MOUNTED RECEPTACLE, DATA OUTLET, TELEPHONE OUTLET OR SPECIAL RECEPTACLE	

1. MOUNTING HEIGHT OF EQUIPMENT LISTED SHALL BE AS INDICATED OR AS SPECIFIED ON THE DRAWINGS. ACTUAL MOUNTING HEIGHT MAY BE ADJUSTED TO FIELD CONDITIONS, INCLUDING THE WALL CONSTRUCTION ELEMENTS (BLOCKS, ETC.)
2. MOUNTING HEIGHT INDICATED FOR THE CENTERLINE OF THE DEVICE OR OUTLET, OR TO THE CENTER OF THE OPERATING CONTROL DEVICE, UNLESS NOTED OTHERWISE. HEIGHTS INDICATED ARE APPLICABLE OVER GRADE, PLATFORM AND OTHER OPERATING LEVELS
3. RECEPTABLES OUTLETS SHALL BE 4" ABOVE COUNTERTOP, 6" ABOVE TABLE OR DESKTOP, OR AS NOTED ON ELECTRICAL OR ARCHITECTURAL LAYOUTS AND DETAILS.
4. THIS CHART, INCLUDING THE NOTES, IS APPLICABLE EVEN IF THE MOUNTING HEIGHT IS SPECIFIED ON THE SYMBOL LIST.

DRAWING SHEET INDEX (8302)				
				ISSUE ISSUED FOR BID
SHEET NO.	DRAWING NUMBER	DRAWING TITLE	SCALE	DATE 08/12/2026
6	E0.0	ELECTRICAL LEAD SHEET	NTS	x
7	E0.1	ELECTRICAL SPECIFICATIONS & DETAILS	NTS	x
8	ED1.1	ELECTRICAL DEMOLITION FLOOR PLAN	1/8" = 1'-0"	x
9	ED1.2	ELECTRICAL DEMOLITION ELEVATIONS	1/8" = 1'-0"	x
10	E1.1	ELECTRICAL NEW WORK FLOOR PLAN	1/8" = 1'-0"	x
11	E1.2	ELECTRICAL NEW WORK ELEVATIONS	1/8" = 1'-0"	x
12	E2.1	ELECTRICAL PANEL SCHEDULES	NTS	x

Run Wire Distances vs. Wire Size for 20A, 1 Phase Branch Circuit				
Voltage (V)	Load Amps	Wire Size (Copper)		
		#12	#10	#8
		Run Distance (Ft)*		
120V	14	50	80	125
120V	12	55	100	150
120V	10	65	125	175
120V	5	125	200	-
277V	14	110	200	-
277V	12	125	225	-
277V	10	150	250	-
277V	5	300	-	-

* The above wire lengths are provided for reference only. Electrical Contractor is responsible to confirm voltage drop is less than 3% for the actual branch circuit routing.



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[illegible]

1	09/10/26	RELEASED FOR BID
No.	Date	Description
REVISIONS:		

KEY PLAN:

A detailed architectural key plan of a building. The main building is a long, rectangular structure with various internal rooms and corridors. To the right of the main building, there is a smaller, more complex structure. A dashed line indicates the location of the proposed addition, which is a rectangular structure located to the right of the main building. The plan is oriented with North at the top.

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A compass rose with four cardinal directions labeled: N (North) at the top, S (South) at the bottom, E (East) on the left, and W (West) on the right. The rose is circular with a crosshair design.

NOT FOR CONSTRUCTION

Professional Engineer
John A. Marchiava P. E.

PROJECT: REF21-42-8302
LRHSD REFERENDUM EXTERIOR BUILDING RESTORATION
ADMINISTRATION BUILDING
93 WILLOW GROVE RD SHAMONG, NEW JERSEY

DRAWING TITLE:			
ELECTRICAL LEAD SHEET			
DRAWN BY:	TJT	SCALE: AS NOTED	DWG SIZE: 42x30
CHECKED BY:	LH	DRAWING NO.	
DATE:	09/10/2026		REVISION
PROJECT NO.: 8C22002.31		E0.0	1
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ALL WORK SHOWN IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE

ELECTRICAL SPECIFICATION
PART 1 - GENERAL
1.01 SUMMARY

- A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED FOR COMPLETE INSTALLATION OF ALL WORK INDICATED ON THE DRAWINGS OR SPECIFIED HEREIN.
- B. OBTAIN ALL PERMITS AND APPROVALS REQUIRED BY AUTHORITIES HAVING JURISDICTION AND PAY THE ASSOCIATED PRINTING AND FILING COSTS.
- C. VERIFY EXISTING CONDITIONS IN FIELD AND INCLUDE IN THE BID PRICE ALL WORK REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
- D. PROVIDE TEMPORARY LIGHTING AND POWER AS REQUIRED BY THE GENERAL CONDITIONS. REMOVE ALL TEMPORARY SERVICES AT THE COMPLETION OF WORK.

A. MATERIALS, EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF ALL APPLICABLE CODES AND THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION, INCLUDING THE NATIONAL ELECTRICAL CODE, LOCAL ELECTRICAL CODES, THE NATIONAL MECHANICAL CODE, THE NATIONAL PLUMBING CODE, THE NATIONAL PIPELAYER AND STEELER CODES, THE NATIONAL FIRE PROTECTION ASSOCIATION'S STANDARDS AND THE REQUIREMENTS OF THE LOCAL UTILITY COMPANY.

B. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND INSURANCE IN ACCORDANCE WITH THE LATEST EDITION OF THE APPLICABLE ELECTRICAL, MECHANICAL, PLUMBING, PIPELAYER AND STEELER CODES, THE NATIONAL FIRE PROTECTION ASSOCIATION'S STANDARDS PUBLISHED BY THE NFPA, UL, ANSI, IEEE AND NEMA.

C. THE CONTRACTOR SHALL PROVIDE THE SERVICES OF AN INDEPENDENT, LICENSED ELECTRICAL INSPECTION AGENCY TO INSPECT AND VERIFY THAT THE MATERIALS, EQUIPMENT AND INSTALLATION CONFORM TO ALL APPLICABLE ELECTRICAL CODES. THE INSPECTION AGENCY SHALL BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

D. ALL WORK SHALL BE WARRANTED IN WRITING TO BE FREE FROM DEFECTS IN MATERIALS AND/OR WORKSMANSHIP FOR A PERIOD OF TWO (2) YEARS FROM THE DATE OF COMPLETION OF THE WORK. THE WARRANTY SHALL INCLUDE ALL COSTS OF PARTS, LABOR, TRAVEL AND LIVING EXPENSES REQUIRED TO REPAIR OR REPLACE DEFECTIVE ITEMS.

A. SUBMIT THE FOLLOWING INFORMATION AS APPLICABLE AND AS REQUIRED FOR ALL WORK SPECIFIED UNDER THIS DIVISION:

- 1. SHOP DRAWINGS INCLUDING DIMENSIONED EQUIPMENT LAYOUTS, POINT-TO-POINT WIRING DIAGRAMS AND SEQUENCES OF OPERATION.
- 2. OPERATION AND MAINTENANCE MANUALS.
- 3. CERTIFIED FACTORY AND FIELD TEST REPORTS.
- 5. INDEPENDENT AGENCY CERTIFICATION OF CODE COMPLIANCE.
- 6. MANUFACTURERS CERTIFICATIONS, WARRANTIES AND SPARE PARTS.

B. ALL SUBMITTALS SHALL BE CLEARLY ANNOTATED TO DEMONSTRATE COMPLIANCE WITH CONTRACT REQUIREMENTS. REFER TO OTHER SECTIONS FOR ADDITIONAL SUBMITTAL REQUIREMENTS.

C. SUBSTITUTIONS TO SPECIFIED ITEMS MUST COMPLY WITH ALL SPECIFICATION REQUIREMENTS AND WILL NOT BE PERMITTED WHEN SUBMITTED AND APPROVED IN WRITING.

A. ALL EQUIPMENT SHALL BE DELIVERED IN MANUFACTURER'S ORIGINAL PROTECTIVE PACKAGING AND STORED IN A CLEAN, DRY PLACE PROTECTED FROM WEATHER, FUMES, WATER, DUST AND PHYSICAL DAMAGE. TOUCH UP DAMAGED FINISHES TO MATCH THE ORIGINAL FINISH.

C. MATERIALS AND METHOD: THE WORKER WITH THE WORK OF OTHER TRADES PRIOR TO INSTALLATION, ASSIST IN THE PREPARATION OF COORDINATION DRAWINGS AS REQUIRED BY THE GENERAL CONDITIONS.

D. EQUIPMENT: SERVICES OF EQUIPMENT SHALL BE COORDINATED WITH THE OWNER AND BUILDING OPERATING PERSONNEL. WORK TO ACCOMMODATE-OR-HOUR SHOOTINGS SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.

E. QUALITY ASSURANCE AS REQUIRED: REPAIRS SHALL MATCH ORIGINAL FINISH. PENETRATIONS OF FIRE RATED PARTITIONS SHALL BE SEALED WITH APPROVED MATERIAL, TO PROVIDE THE SAME RATING AS THE PARTITION. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED PARTITIONS.

F. EQUIPMENT: SERVICES OF EQUIPMENT SHALL BE RATED NEMA 1 FOR INTERIOR LOCATIONS, NEMA 3R FOR DAMP LOCATIONS AND NEMA 4 FOR HIGHLY CORROSIVE LOCATIONS.

G. PROVIDE 4" HORIZONTAL CONCRETE FLOORKEEPING PADS BELOW ALL FLOOR MOUNTED EQUIPMENT AND ABOVE ALL CONDITS

A. GENSET: 5 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

2.01 RECESSES:

- A. RIGID GALVANIZED STEEL (RGS) CONDUIT SHALL CONFORM TO UL 6. FITTINGS SHALL BE THREADED.
- B. INTERMEDIATE METALLIC CONDUIT (IMC) SHALL CONFORM TO UL 124. FITTINGS SHALL BE THREADED.
- C. ELECTRICAL METALLIC TUBING (EMT) SHALL CONFORM TO UL 179. FITTINGS SHALL BE GLAND AND RING COMPRESSION TYPE.
- D. FLEXIBLE METALLIC CONDUIT SHALL CONFORM TO UL 1. LIQUID TIGHT FLEXIBLE METALLIC CONDUIT SHALL CONFORM TO UL 380.

2.02 FITTINGS: FITTINGS SHALL BE PROVIDED AT ALL CONDUIT TERMINATIONS. BUSINGS LARGER THAN 1" SHALL BE GROUNDING TYPE. PVC BUSINGS MAY BE UTILIZED ONLY FOR 3/4" BRANCH CIRCUIT CONDUITS TERMINATING AT PANELBOARDS.

2.03 RACEWAYS:

- A. RACEWAYS SHALL BE PROVIDED TO CARRY ALL CONDUITS AND CABLES.
- B. RACEWAYS SHALL BE RUN HORIZONTALLY BELOW 8' AFF IN PARTITIONS. ALL EXPOSED RACEWAYS SHALL BE FURNISHED WITH A 200 LB. TEST NYLON DRAG LINE.
- C. CONDUIT/UTICATION SHALL BE AS FOLLOWS:

MECHANICAL EQUIPMENT ROOMS BELOW 8'-0" AFF.
 3. INTERIOR METALLIC COATING (MCC) MAY BE USED IN RSG OF REELS WHERE PERMITTED BY THE AUTHORITY HAVING JURISDICTION.
 4. ELECTRICAL METALLIC TUBING (ENT) - INTERIOR CONCEALED AND EXPOSED LOCATIONS; EXPOSED IN MECHANICAL ROOMS BELOW 8'-0" AFF. INTERIOR CONCEALED LOCATIONS.
 5. ELECTRICAL METALLIC COATING - FINAL CONNECTIONS TO TRANSFORMERS AND LIGHTING FIXTURES IN INTERIOR LOCATIONS ABOVE ACCESSIBLE CEILINGS (MAX LENGTH 8'-0"), WHERE APPROVED BY THE ENGINEER.
 6. ELECTRICAL METALLIC COATING - EXTERIOR CONNECTIONS TO TRANSFORMERS AND LIGHTING FIXTURES; CONNECTIONS IN EXTERIOR LOCATIONS.
 7. WIREWAYS SHALL BE ALUMINUM GUTTERS SHALL BE TWO-PIECE STEEL CONSTRUCTION WITH ANS1 61 GRAY ENAMEL FINISH. COVERS SHALL BE COMBINATION HINGED AND SCREW ON TYPE. HINGINGS SHALL HAVE REGULARLY SPACED KNOCKOUTS FOR CONDUIT ENTRY. WIREWAYS SHALL BE MANUFACTURED BY SQUARE D OR APPROVED EQUAL. PROVIDE ALL END PICES, CONNECTIONS AND ACCESSORIES.

- A. OUTLET, PULL AND JUNCTION BOXES SHALL BE FABRICATED FROM STEEL AND CONFORM TO UL 50, UL514 AND NEMA OS1. BOXES FOR INTERIOR LOCATIONS SHALL BE CODE GAUGE, GALVANIZED SHEET STEEL. BOXES FOR MECHANICAL ROOMS AND EXTERIOR LOCATIONS SHALL BE CAST STEEL WITH GASKETED COVERS.
- B. BOXES SHALL CONTAIN SUITABLE KNOCKOUTS. BARRIERS SHALL BE FURNISHED AS REQUIRED BY CODE AND TO SEPARATE SWITCHES FOR 277 VOLT CIRCUITS ON DIFFERENT PHASES.
- C. BOXES SHALL BE SIZED AS REQUIRED BY CODE. COVERS GREATER THAN 50 LBS. SHALL BE DIVIDED INTO MULTIPLE SECTIONS.

2.03 WIRES, CABLES, SPLICES AND TERMINATIONS

A. RATED 600 VOLTS. MINIMUM WIRE SIZE SHALL BE #12 AWG FOR POWER, #14 AWG FOR CONTROL, AND #18 AWG FOR LIMITED POWER CIRCUITS. CONDUCTORS SHALL BE SOLID FOR WIRE SIZES #10 AWG AND SMALLER AND STRANDED FOR WIRE SIZES #8 AWG AND LARGER. STRANDED CONDUCTORS MAY BE FOLLOWED FOR CONTROL WIRING.

B. CONDUCTORS SHALL BE COLOR-CODED AS USUAL: 208/250 VOLT - BLACK/A, RED/B, BLUE/C, WHITE/NEUTRAL, GREEN/GROUND, GREEN WITH TRACER.

C. CONDUCTOR SIZES SHALL BE INCREASED WHERE REQUIRED TO COMPENSATE FOR VOLTAGE DROP AND HIGH AMBIENT TEMPERATURE.

D. SPICES FOR WIRE SIZES #10 AWG AND SMALLER SHALL BE MADE WITH SPRING CONNECTORS AND TAPE. SPICES FOR WIRE SIZES #8 AWG AND LARGER SHALL BE COMPRESSION TYPE WITH PRE-MOLDED COVER AND TAPE.

E. TERMINATIONS OF POWER AND CONTROL WIRING SHALL BE COMPRESSION TYPE, WITH TWO-HOLE LUGS FOR WIRE SIZES #8 AWG

2.04 WIRING DEVICES

A. WIRING DEVICES SHALL BE SPECIFICATION GRADE WITH NEMA CONFIGURATIONS AS INDICATED ON THE DRAWINGS. COLOR OF DEVICES SHALL BE AS SELECTED BY THE ARCHITECT. WIRING DEVICES SHALL BE MANUFACTURED BY ARROW-HART, HUBBELL, LEVITON, PASS & SEYMOUR OR APPROVED EQUIV.

B. FACELATEPLATES SHALL BE NON-MAGNETIC STAINLESS STEEL WITH BRUSHED FINISH. FACELATEPLATES SHALL BE FURNISHED FOR ALL COMMUNICATIONS OUTLETS AND SHALL BE CONFIGURED TO SUIT THE SYSTEM SUPPLIER'S REQUIREMENTS. DEVICES MOUNTED ABOVE THE CEILING SHALL BE FURNISHED WITH 1/2" HUBS.

C. MULTI-OUTLET ASSEMBLY SHALL BE CONSTRUCTION WITH BAKED ENAMEL FINISH, UNLESS OTHERWISE INDICATED ON THE DRAWINGS. ASSEMBLIES SHALL BE SINGLE CIRCUIT WITH SPECIFICATION GRADE NEMA 5-15R RECEPTACLES 3" ON CENTER. MULTI-OUTLET ASSEMBLIES SHALL BE WIREMOLD PLUGMOLD 2000 OR APPROVED EQUIV. PROVIDE ALL END FINISHES.

2.05 HANGERS AND SUPPORTS

A. THREEHOLE RODS SHALL BE FULLY GALVANIZED, MINIMUM 3/8" DIAMETER. MODULAR CHANNEL SUPPORTS SHALL BE GALVANIZED STEEL. SUPPORT CLIPS AND FASTENERS SHALL BE LISTED AND APPROVED FOR THE APPLICATION. STRAPS AND CLAMPS SHALL BE MALLEABLE IRON.

B. SUPPORTS SHALL BE SIZED TO ACCOMMODATE THE LOAD REQUIRED. ALL WORK SHALL BE SUPPORTED INDEPENDENTLY OF THE WORK OF OTHER TRADES, INCLUDING CEILING SYSTEM SUPPORTS. ANCHORED CABLE MAY, HOWEVER, BE SUPPORTED FROM MAIN CEILING SYSTEM SUPPORTS.

C. PANELS AND EQUIPMENT LOCATED ON OTHER THAN MASONRY WALLS SHALL BE MOUNTED WITH MODULAR CHANNEL SUPPORTS SECURED TO THE BUILDING STRUCTURE.

2.06 SAFETY SWITCHES

A. ALL ELECTRICAL SWITCHES SHALL BE 50% OR 60% AS REQUIRED, HEAVY DUTY, HOSEPROOF RATED, QUICK MAKE, QUICK BREAK.

A. SAFETY DISCONNECT SWITCHES SHALL BE 250V OR 600V AS REQUIRED, HEAVY DUTY, HORSEPOWER RATED, QUICK MAKE-QUICK BREAK DESIGN WITH HANDLES LOCKABLE IN THE OPEN (OFF) POSITION. SWITCH HOUSINGS SHALL INCLUDE COVER INTERLOCK AND LINE SIDE TERMINAL SHIELD AND GROUNDING LUG. FUSE CLIPS SHALL BE REJECTION TYPE. INTERRUPTING RATINGS SHALL BE A MINIMUM OF 100,000 AMP WHEN FUSED AND 12 TIMES THE CONTINUOUS CURRENT RATING WHEN UNFUSED AT RATED VOLTAGE.

B. SWITCHES USED AS A LOCAL DISCONNECT FOR A MOTOR CIRCUIT SHALL BE FURNISHED WITH AUXILIARY CONTACTS CONNECTED WITH #14 CUD CONTROL WIRES TO INTERRUPT THE STARTER CONTROL CIRCUIT WHEN THE DISCONNECT SWITCH IS OPENED.

A. FUSES SHALL BE SILVER-SAND CONSTRUCTION, TIME DELAY, CURRENT LIMITING TYPE RATED 600V OR 250V AS REQUIRED, 200,000 AIC. FUSES GREATER THAN 600 AMPS SHALL BE CLASS L. FUSES FOR MOTOR AND TRANSFORMER PROTECTION SHALL BE CLASS RK-1. ALL OTHER FUSES SHALL BE CLASS RK-5. FUSES SHALL BE MANUFACTURED BY BUSSMANN, CEFECO, GOULD-SHAWMUT OR APPROVED EQUAL.

A. THE DISTRIBUTION SYSTEM SHALL BE COMPLETELY AND PROPERLY GROUNDED USING APPROVED FITTINGS. SEPARATE INSULATED GROUND CONDUCTORS SHALL BE RUN WITH ALL FEEDERS, RECEPTACLE BRANCH CIRCUITS AND FLEXIBLE CONNECTIONS TO LIGHTING FIXTURES AND EQUIPMENT.

A. IDENTIFIED WITH THE EQUIPMENT DESIGNATION, VOLTAGE AND AMPERE RATING, FUSE RATING, EQUIPMENT SERIAL AND ORIGIN OF THE INCOMING FEED. IDENTIFICATION SHALL BE BY WHITE ON BLACK PLASTIC NAMEPLATE WITH 1/2" MINIMUM LETTERING ATTACHED BY SCREWS.

B. JUNCTION BOXES AND CONTROL PANELS SHALL BE IDENTIFIED WITH PANEL AND CIRCUIT NUMBERS OR SYSTEM NAME. FACEPLATES OF SWITCHES FOR EQUIPMENT SUCH AS REMOTE FANS AND MOTORIZED SCREENS SHALL BE IDENTIFIED WITH THE NAME OF THE DEVICE CONTROLLED. IDENTIFICATION SHALL BE BY INDELEIBLE MARKER IN CONCEALED LOCATIONS AND ADHESIVE LABELS IN EXPOSED LOCATIONS. EMERGENCY DEVICES SHALL BE IDENTIFIED IN YELLOW.

C. ALL CONDUITS SHALL BE IDENTIFIED WITH TAGS AT BOTH ENDS INDICATING THE LOCATION OF TERMINATION AT THE OPPOSITE END.

3.0.3 STARTUP, TESTING AND ADJUSTMENT

A. PROVIDE THE SERVICES OF MANUFACTURERS' FACTORY TRAINED TECHNICIANS FOR SYSTEM STARTUP, TESTING, ADJUSTMENT, AND TRAINING.

B. THE FOLLOWING TESTS AND ADJUSTMENTS SHALL BE PERFORMED ON EQUIPMENT FURNISHED BY THIS CONTRACTOR AND OTHERS:

1. WIRING SYSTEMS - CONTINUITY, PHASE ROTATION, PHASE BALANCING AND INSULATION RESISTANCE (MEGGER).
2. GROUNDING SYSTEM - CONTINUITY AND RESISTANCE TO GROUND.
3. TESTING FIRM TO PROVIDE NFPA ATS TESTING FOR EQUIPMENT.

3.04 DEMONSTRATION AND INSTRUCTION

A. DEMONSTRATE THAT ALL EQUIPMENT AND SYSTEMS ARE OPERATING IN ACCORDANCE WITH CONTRACT REQUIREMENTS.

3.05 PROJECT CLOSEOUT

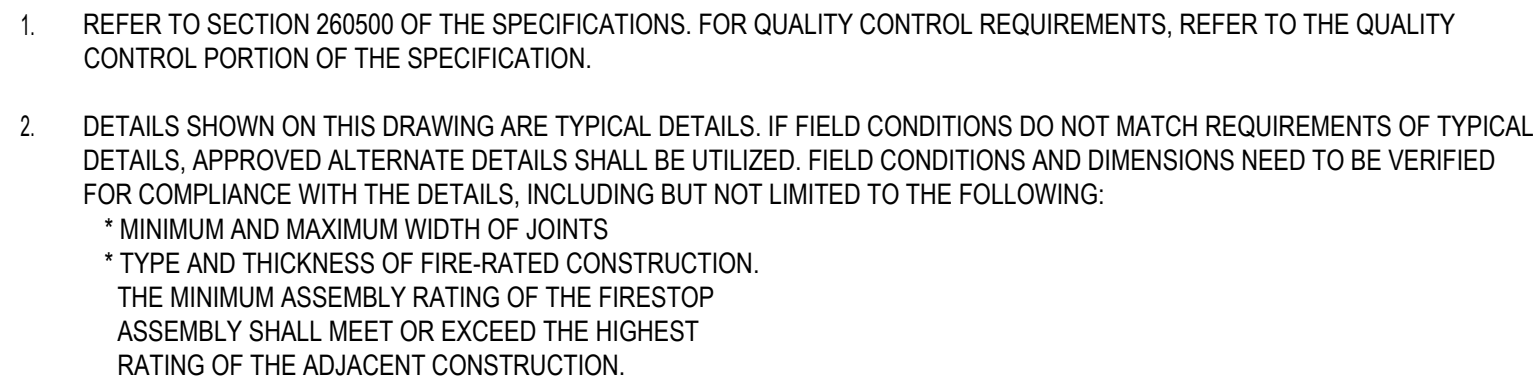
1. REQUIRED AGENCY APPROVALS AND CERTIFICATIONS.
2. FINAL CLEANING AND ADJUSTMENT OF LIGHTING FIXTURES AND EQUIPMENT.



1. USE THIS DETAIL WHERE CONDUITS PASS THRU FIRE RATED WALL.
2. WHERE CONDUITS PASS THRU FOUNDATION WALLS, FLOOR SLAB ON EARTH, ROOF, CONCRETE BEAM BRICK WALL, OR WATER PROOF FLOORS, USE PIPE SLEEVES.
3. FIRESTOPPING OF CONDUIT PENETRATIONS SHALL UTILIZE THE CORRECT UL STANDARD FOR THE SPECIFIC WALL/FLOOR/CEILING TYPES AND RATINGS.



1. FIRESTOPPING OF CONDUIT PENETRATIONS SHALL UTILIZE THE CORRECT UL STANDARD FOR THE SPECIFIC WALL/FLOOR/CEILING TYPES AND RATINGS.



- * 2002 UNDERWRITER'S LABORATORIES FIRE RESISTANCE DIRECTORY, VOLUMES 1 & 2
- * NFPA 101 LIFE SAFETY CODE
- * NFPA 70 - NATIONAL ELECTRIC CODE 2023
- * ALL GOVERNING LOCAL AND REGIONAL BUILDING CODES

4. FIRESTOP SYSTEM INSTALLATION MUST MEET REQUIREMENTS OF ASTM E-814 (UL 1479) TESTED ASSEMBLIES THAT PROVIDE A FIRE RATING EQUAL TO THAT OF CONSTRUCTION BEING PENETRATED.

5. ALL RATED THROUGH-PENETRATION ASSEMBLIES SHALL BE PROMINENTLY LABELED WITH THE FOLLOWING INFORMATION:
* ATTENTION: FIRE RATED ASSEMBLY

* UL SYSTEM #
* PRODUCT(S) USED
* HOURLY RATING (F-RATING)
* INSTALLATION DATE

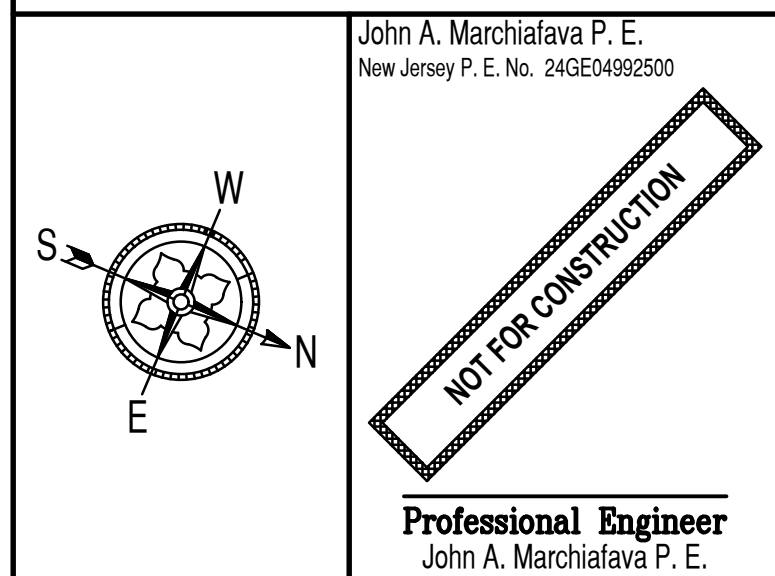
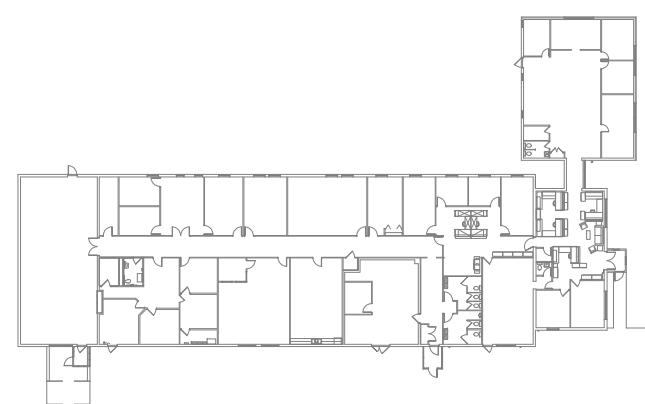


NOTES:

1. FOR SLEEVE DIAMETER USE MANUFACTURER'S SIZE RECOMMENDATION.
2. FIRESTOPPING OF CONDUIT PENETRATIONS SHALL UTILIZE THE CORRECT UL STANDARD FOR THE SPECIFIC WALL/FLOOR/CEILING TYPES AND RATINGS.



KEY PLAN:



PROJECT: REF21-42-8302

LRHSD REFERENDUM EXTERIOR BUILDING RESTORATION

ADMINISTRATION BUILDING

93 WILLOW GROVE RD
SHAMONG, NEW JERSEY

DRAWING TITLE:

ELECTRICAL SPECIFICATIONS & DETAILS

DRAWN BY: TJT		SCALE: AS NOTED	DWG SIZE: 42x30
CHECKED BY: LH		DRAWING NO. E0.1	REVISION 1
DATE: 09/10/2026			
PROJECT NO.: 8C22002.31			

ALL WORK SHOWN IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE

GENERAL NOTES:

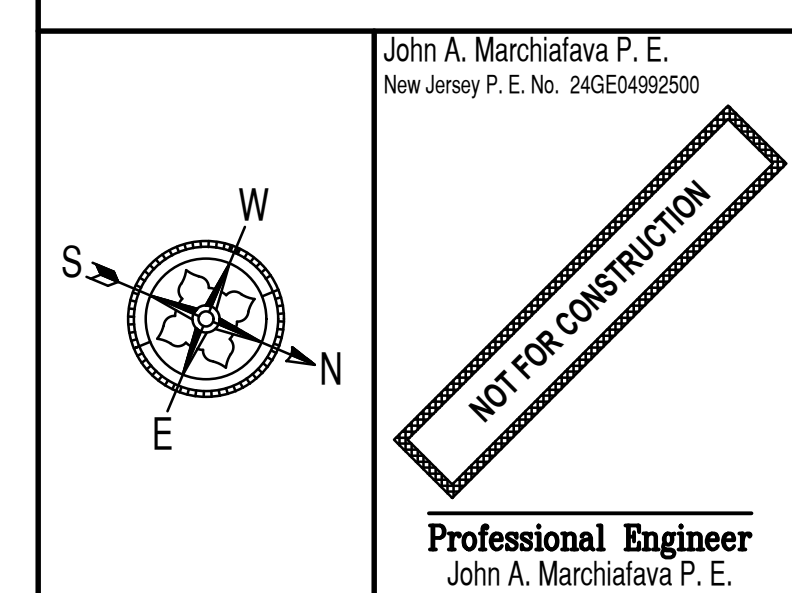
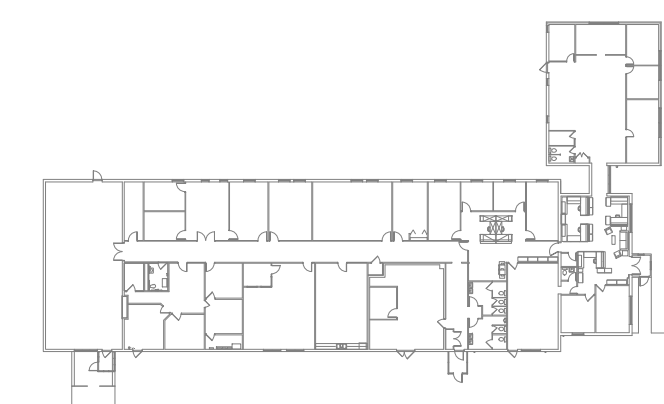
1. REFER TO ELECTRICAL LEAD SHEET, E.O. FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROJECT. REFER TO SPECIFICATIONS AND DETAILS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS.
2. THE ELECTRICAL CONTRACTOR SHALL ACCOMPLISH COMPLETE ELECTRICAL DEMOLITION OF ALL ELECTRICAL EQUIPMENT/DEVICES ASSOCIATED WITH THE REMOVAL OF MECHANICAL EQUIPMENT IDENTIFIED ON PLAN.
3. DEMOLITION OF THESE DEVICES SHALL INCLUDE, BUT NOT BE LIMITED TO, COMPLETE REMOVAL OF ALL BRANCH CIRCUIT POWER WIRING AND ASSOCIATED CONDUIT AND BOX SYSTEMS FROM THE AFFLICTED MECHANICAL EQUIPMENT BACK TO THE PANELS OF ORIGIN, REMOVE EXISTING DISCONNECT SWITCHES, STARTERS AND OTHER ELECTRICAL EQUIPMENT ASSOCIATED WITH THE MECHANICAL EQUIPMENT AND SYSTEMS BEING DEMOLISHED.
4. THE ELECTRICAL CONTRACTOR SHALL MAKE AN ON SITE INSPECTION OF THE PROJECT AREA TO DETERMINE A FULL SCOPE OF DEMOLITION WORK BEFORE SUBMITTING A PROPOSAL.
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE APPROPRIATE FIRE RATED REMOVAL/DEMOLITION PLATES FOR ALL REMOVED FLOOR MOUNTED POLE THROUGH WIRING DEVICES.
6. ALL DEMOLISHED MATERIAL SHALL BE REMOVED FROM THE SITE BY THE ELECTRICAL CONTRACTOR. THE CONTRACTOR IS TO RECYCLE WHEREVER POSSIBLE. COORDINATE ALL REMOVAL AND DISPOSAL WITH THE OWNER WHO RESERVES THE RIGHT TO SALVAGE ANY HVAC OR ELECTRICAL COMPONENTS.
7. ALL POWER SHUT DOWNS MUST BE COORDINATED WITH THE OWNERS REPRESENTATIVE.
8. ALL DEMOLITION WORK SHALL BE DONE IN A SAFE AND ORDERLY MANNER AND IN ACCORDANCE WITH THE N.E.C., OSHA AND STATE REGULATIONS.
9. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE REMOVAL OF EQUIPMENT WITH OTHER TRADES SO AS NOT TO AFFECT THE OPERATION OF EXISTING SYSTEMS.
10. DO NOT DEMOLISH THE FOLLOWING ITEMS:
 - BRANCH CIRCUIT WIRING PASSING THROUGH THE AREA OF DEMOLITION BUT FEEDING OTHER WIRING DEVICES, LIGHT FIXTURES, AND OTHER EQUIPMENT NOT WITHIN THE SCOPE OF THE WORK.
 - EXISTING BRANCH CIRCUIT WIRING FOR HVAC EQUIPMENT TO REMAIN UNLESS STATED ON MECHANICAL DEMOLITION PLAN.
11. ELECTRICAL CONTRACTOR MAY RE-USE TO THE MAXIMUM EXTENT POSSIBLE ALL WIRING AND RACEWAY ASSOCIATED WITH EXISTING EQUIPMENT BEING REMOVED, RE-USE OF WIRING, RACEWAY AND BREAKERS LOCATED IN LOCAL PANELS IS PERMITTED AS LONG AS IT MEETS THE INSTALLATION REQUIREMENTS OF THE NEW EQUIPMENT BEING PROVIDED. PROVIDE PROTECTOR TESTING OF CABLES TO BE RE-USED PER ANSI/NETA 2012:2017 STANDARDS.

GENERAL: DEMOLITION NOTES ARE INDICATED WITH THE FOLLOWING SYMBOL AND ARE NUMBERED AS FOLLOWS:

- 1** ELECTRICAL CONTRACTOR SHALL RELOCATE EXISTING PANEL, DISCONNECT AND REMOVE EXISTING FEEDER BACK TO ACCESSIBLE LOCATION IN BUILDING. PROVIDE PULL BOX FOR REUSE OF EXISTING FEEDER TO EXTEND EXISTING CIRCUITRY TO RELOCATED EXISTING PANEL LOCATION. CONTRACTOR SHALL PROVIDE ALL NECESSARY INFORMATION, DEMOLISH AND REMOVE ALL DOWNSTREAM CIRCUITRY.
- 2** ELECTRICAL CONTRACTOR SHALL DISCONNECT EXISTING CONDENSING UNIT TO BE REMOVED, DEMOLISH AND REMOVE EXISTING FEEDER BACK TO PANEL OF ORIGIN. ELECTRICAL CONTRACTOR SHALL PROVIDE PULL BOX FOR REUSE OF EXISTING FEEDER TO EXTEND EXISTING CIRCUITRY TO RELOCATED EXISTING UNIT LOCATION. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION.
- 3** ELECTRICAL CONTRACTOR SHALL DISCONNECT EXISTING CONDENSING UNIT TO BE RELOCATED, DISCONNECT AND REMOVE EXISTING FEEDER BACK TO ACCESSIBLE LOCATION IN BUILDING. PROVIDE NEW JUNCTION BOX FOR REUSE OF EXISTING FEEDER TO EXTEND EXISTING CIRCUITRY TO RELOCATED EXISTING UNIT LOCATION. EXISTING DISCONNECT SWITCH SHALL BE RE-USED AT RELOCATED CONDENSING UNIT LOCATION. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION.

1	09/10/26	RELEASED FOR BID
No.	Date	Description

KEY PLAN:



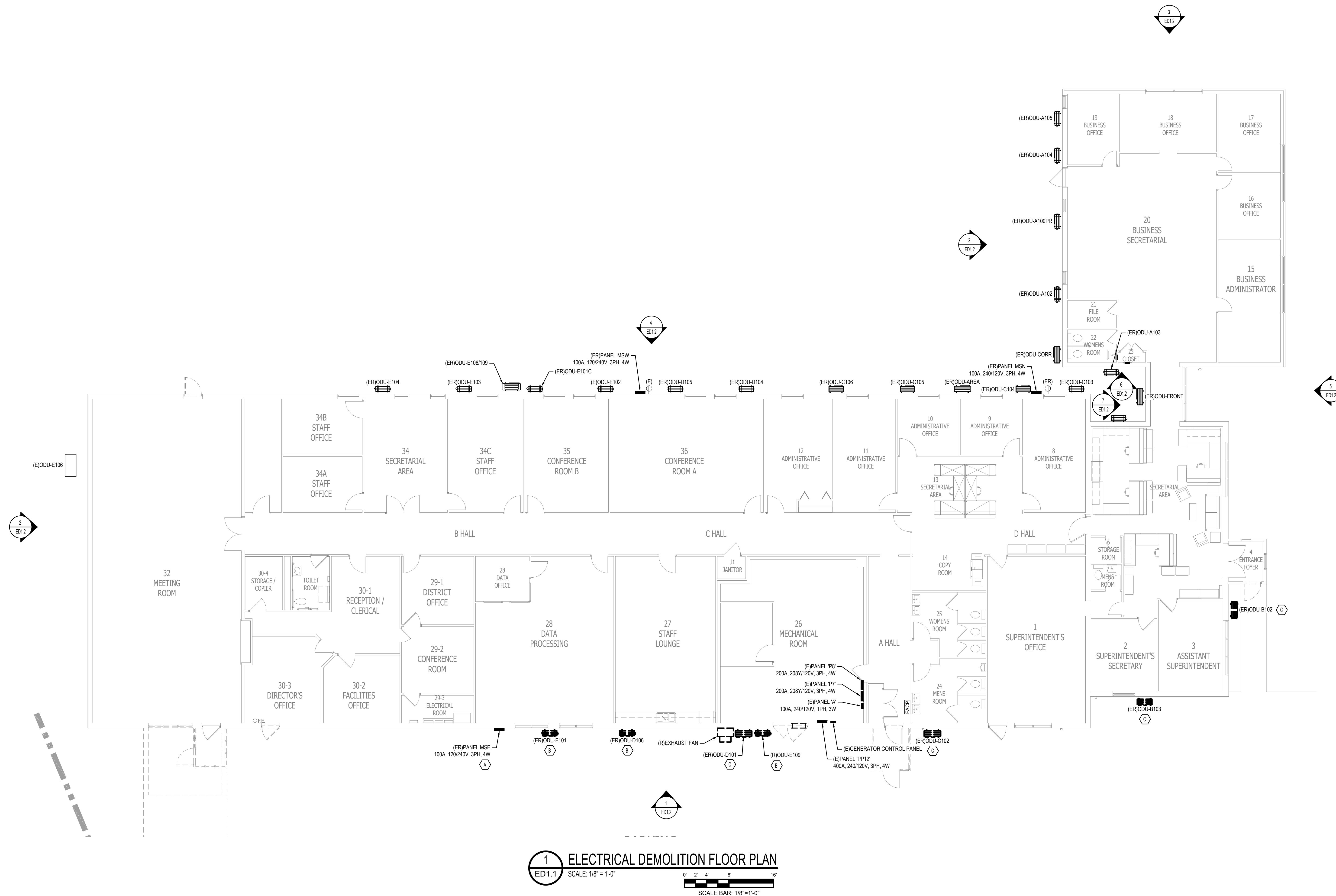
LRHSD REFERENDUM
EXTERIOR BUILDING
RESTORATION

93 WILLOW GROVE RD
SHAMONG, NEW JERSEY

ELECTRICAL DEMOLITION
FLOOR PLAN

DRAWN BY:	TJT	SCALE:	AS NOTED	DWG. SIZE:	42x30
CHECKED BY:	LH	DRAWING NO.		REVISION	
DATE:	09/10/2026	ED1.1		1	
PROJECT NO.:	8C22002.31				

ALL WORK SHOWN IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE.



GENERAL NOTES:

- A. REFER TO ELECTRICAL LEAD SHEETS, E0.0 FOR "NOTES" THAT PERTAIN TO THE SCOPE OF THIS PROJECT.
- B. REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS.
- C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE.
- D. CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUITS, RACEWAYS, CONDUCTORS, AND OTHER EQUIPMENT NECESSARY TO PROVIDE A COMPLETE WORKING SYSTEM.
- E. ELECTRICAL CONTRACTOR SHALL INSTALL ALL AND INSTALLATION IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES AS NOTED WITHIN THE WRITTEN INSTRUCTIONS.
- F. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL ELECTRICAL EQUIPMENT, WIRING AND RACEWAY, AND MAKE ALL CONNECTIONS TO FORM PANELBOARDS, DISCONNECT SWITCHES, ADJUSTABLE SPEED DRIVES, MOTOR STARTERS, AND THE END USE EQUIPMENT NECESSARY FOR A FULLY OPERATIONAL SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR.

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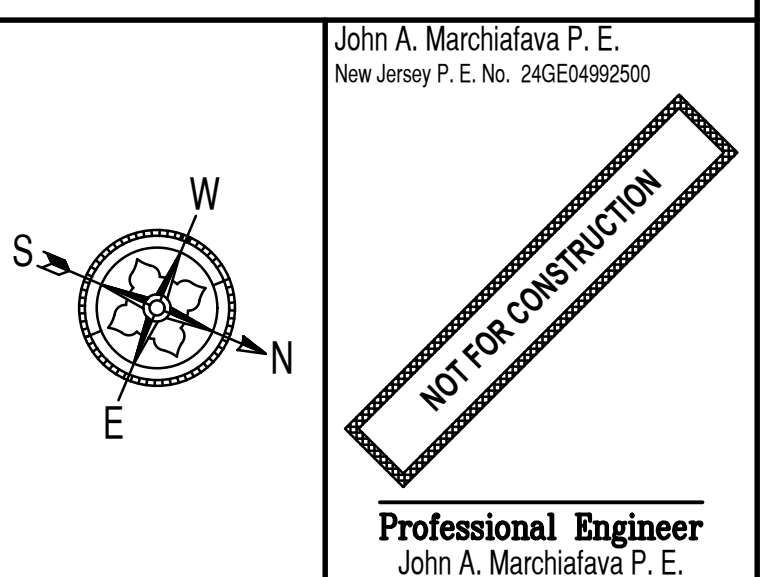
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No.	Date	Description

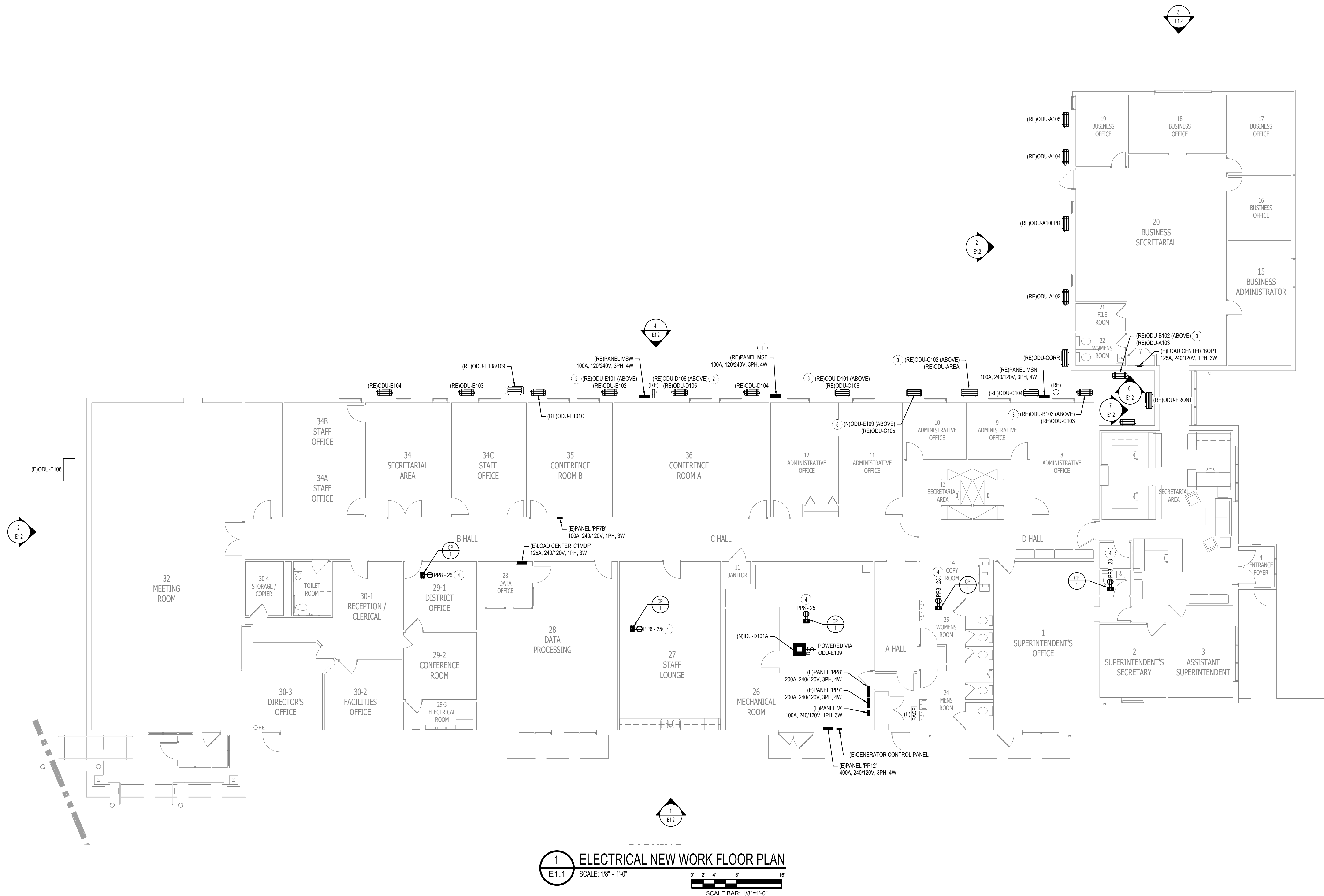
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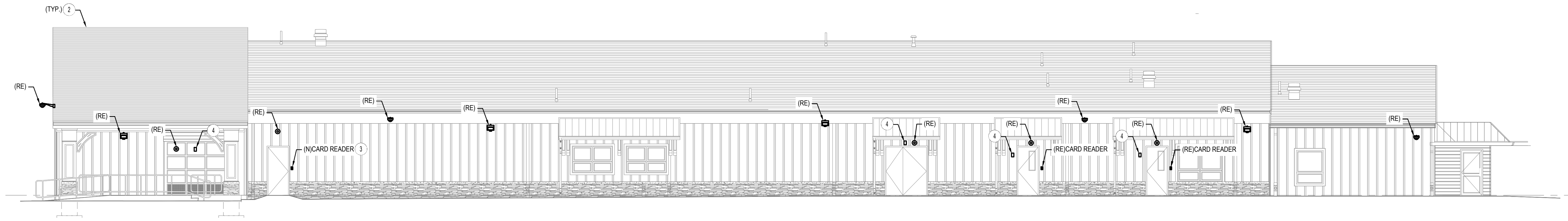


93 WILLOW GROVE RD
SHAMONG, NEW JERSEY

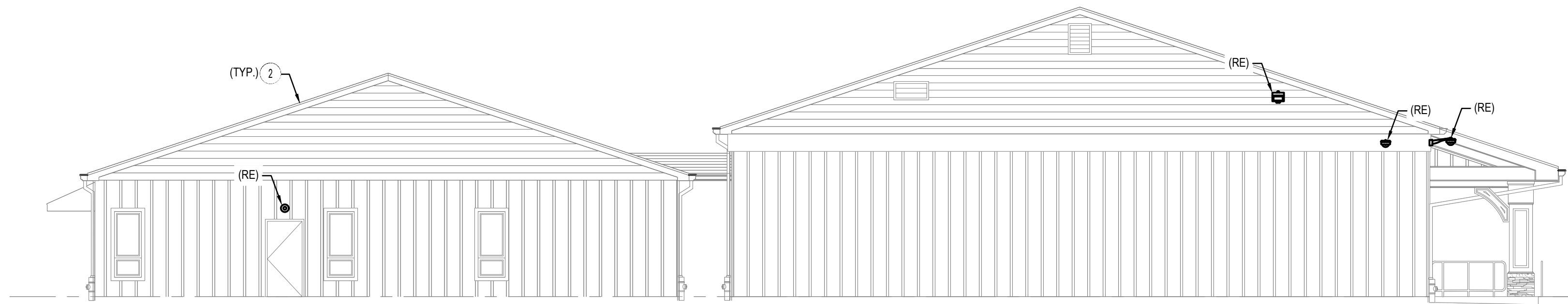
ELECTRICAL NEW WORK
FLOOR PLAN

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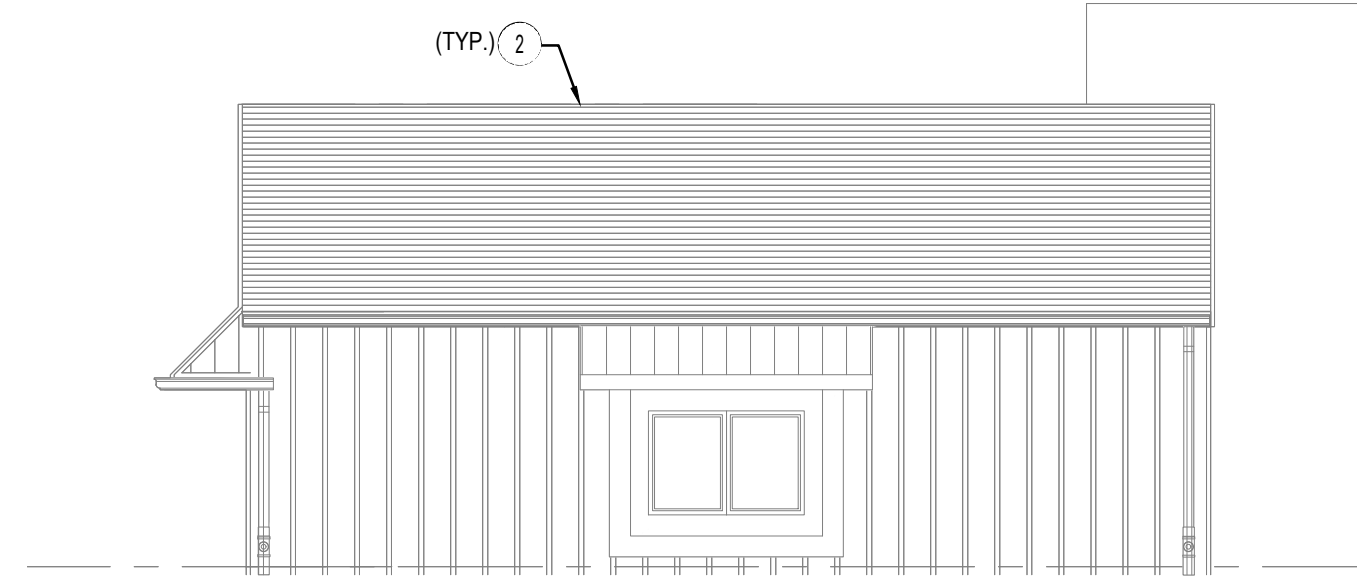




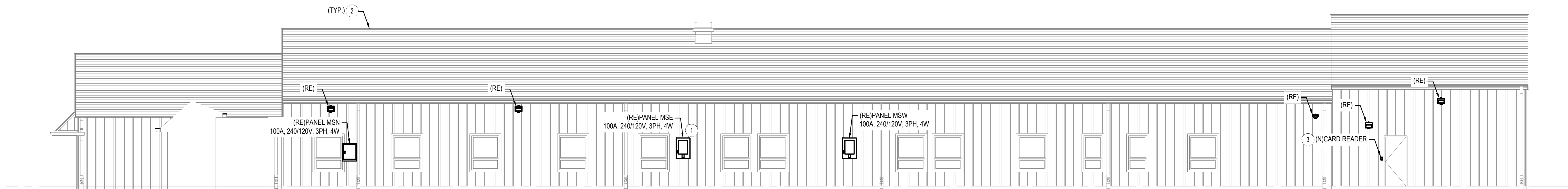
1 ELECTRICAL NEW WORK EAST ELEVATION
E1.2 SCALE: 1/8" = 1'-0"
SCALE BAR: 1/8"=1'-0"



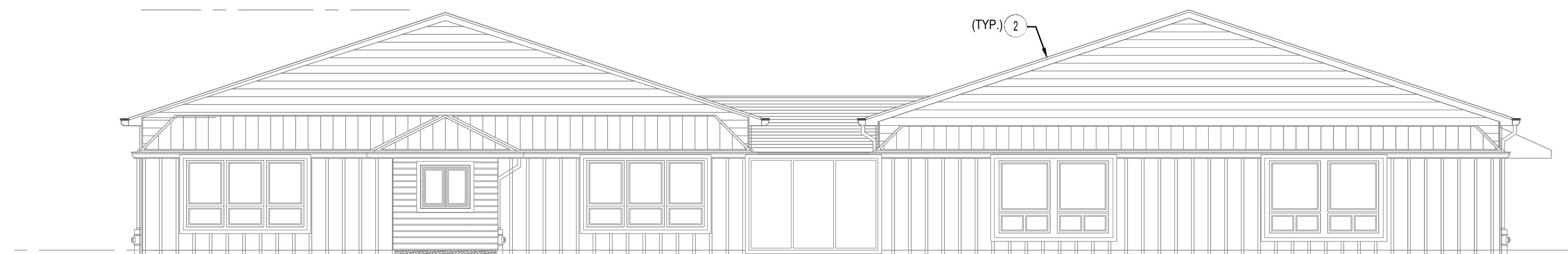
2 ELECTRICAL NEW WORK SOUTH ELEVATION
E1.2 SCALE: 1/8" = 1'-0"
SCALE BAR: 1/8"=1'-0"



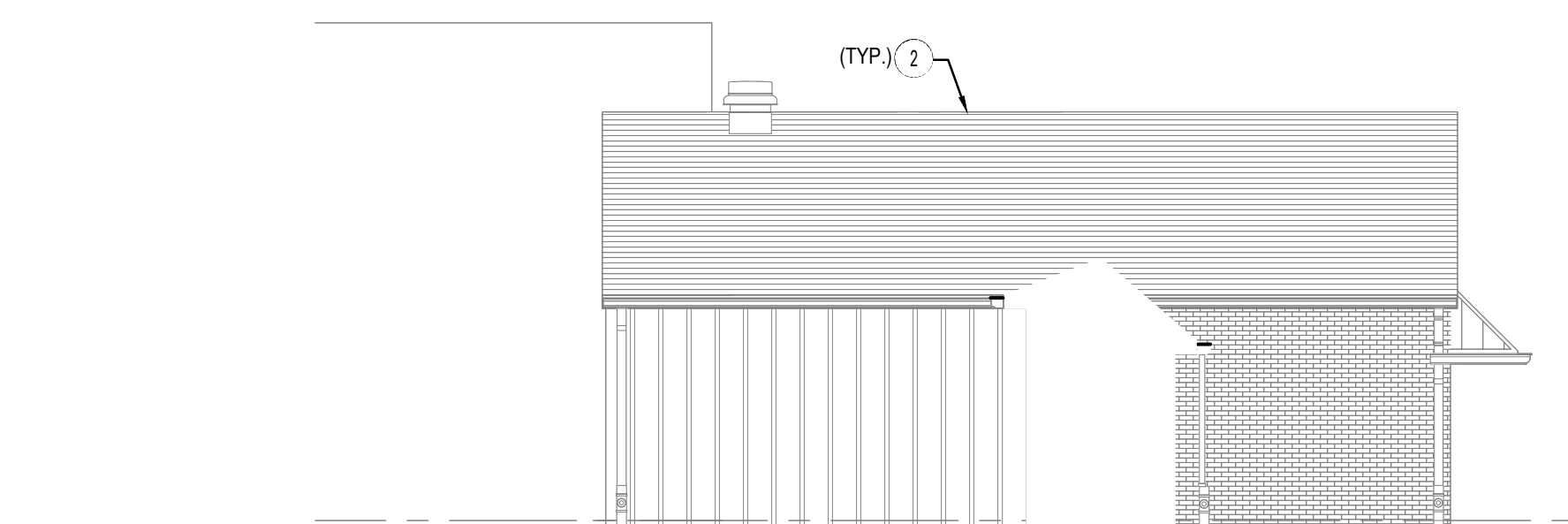
3 ELECTRICAL NEW WORK WEST ELEVATION - BUSINESS WING
E1.2 SCALE: 1/8" = 1'-0"
SCALE BAR: 1/8"=1'-0"



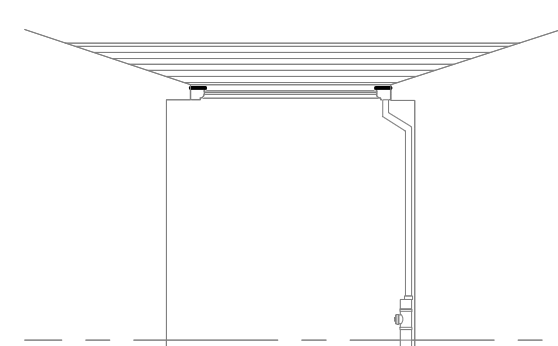
4 ELECTRICAL NEW WORK WEST ELEVATION
E1.2 SCALE: 1/8" = 1'-0"
SCALE BAR: 1/8"=1'-0"



5 ELECTRICAL NEW WORK NORTH ELEVATION
E1.2 SCALE: 1/8" = 1'-0"
SCALE BAR: 1/8"=1'-0"



6 ELECTRICAL NEW WORK EAST ELEVATION - BUSINESS ALCOVE
E1.2 SCALE: 1/8" = 1'-0"
SCALE BAR: 1/8"=1'-0"



7 ELECTRICAL NEW WORK SOUTH ELEVATION - BUSINESS ALCOVE
E1.2 SCALE: 1/8" = 1'-0"
SCALE BAR: 1/8"=1'-0"

NOTE: REFER TO SHEET E1.1 FOR SCOPE OF WORK ASSOCIATED WITH RELOCATING MECHANICAL EQUIPMENT.

NEW WORK SYSTEM NOTES:

1. GENERAL NOTES:

- REFER TO ELECTRICAL LEAD SHEETS, E0.0 FOR 'NOTES' THAT PERTAIN TO THE SCOPE OF THIS PROJECT.
- REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE.
- CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUITS, RACEWAYS, CONDUCTORS, AND OTHER EQUIPMENT NECESSARY TO PROVIDE A COMPLETE WORKING SYSTEM.
- ELECTRICAL CONTRACTOR SHALL INSTALL ALL (N) EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES AS NOTED WITHIN THE WRITTEN INSTRUCTIONS.
- ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL ELECTRICAL EQUIPMENT, WIRING AND RACEWAY, AND MAKE ALL CONNECTIONS TO/FROM PANELBOARDS, DISCONNECT SWITCHES, ADJUSTABLE SPEED DRIVES, MOTOR STARTERS, AND THE END USE EQUIPMENT NECESSARY FOR A FULLY OPERATIONAL SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR.
- ALL RACEWAYS PENETRATING FIRE RATED PARTITIONS, WALLS, AND CEILINGS SHALL BE SEALED USING APPROVED FIRE RATED SEALANT TO MATCH THE REQUIRED WALL FIRE RATING.
- ALL POWER SHUT DOWNS MUST BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.
- THE ELECTRICAL CONTRACTOR SHALL MAKE AN ON SITE INSPECTION TO DETERMINE THE FULL SCOPE OF WORK AND WORKING CONDITIONS BEFORE SUBMITTING A PROPOSAL.
- ALL CIRCUIT BREAKERS SERVING HVAC EQUIPMENT SHALL BE UL LISTED AS 'HACR'.
- THE DRAWINGS ARE DIAGRAMMATIC. EXACT LOCATION OF EQUIPMENT, WIRING AND RACEWAYS SHALL BE DETERMINED BY CONTRACTOR SUBJECT TO ARCHITECT APPROVAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ELECTRICAL CHARACTERISTICS OF ALL NEW EQUIPMENT, MOTORS, ETC. BEFORE INSTALLING CABLING AND RACEWAY. IF THERE ARE ANY DISCREPANCIES BETWEEN THE ACTUAL RATING OF EQUIPMENT AT THE SITE AND THE DRAWINGS, THEN THE ENGINEER SHALL BE NOTIFIED.
- THE CONTRACTOR SHALL SUBMIT TO THE OWNER: CERTIFICATES OF INSPECTION FOR THE ELECTRICAL INSTALLATION FROM AN APPROVED INSPECTION AGENCY UPON COMPLETION OF ELECTRICAL WORK.
- ALL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATION MAINTENANCE, AND REPAIR. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO ACCOMPLISH THIS, SUBJECT TO THE APPROVAL OF THE ENGINEER.
- THE ELECTRICAL CONTRACTOR SHALL USE MAXIMUM OF 6' OF FLEXIBLE CONDUIT FOR EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT, AND FOR ALL MOTORS. USE LIQUID TIGHT FLEXIBLE CONDUIT IN WET OR DAMP LOCATIONS. INSTALL SEPARATE GROUND CONDUCTOR ACROSS FLEXIBLE CONNECTIONS.
- ALL WIRING SHALL BE COPPER CONDUCTOR WITH 600 VOLT TYPE THIN, OR THIN INSULATION IN CONDUIT. THE MINIMUM SIZE WIRE FOR POWER CIRCUITS SHALL BE #12 AWG. SOLID CONDUCTORS SHALL BE USED FOR NUMBER 10 AND 12 STRANDED CONDUCTORS SHALL BE USED FOR NUMBER 8 AND LARGER. THE CONTRACTOR MAY USE METAL CLAD TYPE 'MC' WHERE ALLOWED BY THE NATIONAL ELECTRICAL CODE AND APPROVED FOR USE BY THE AUTHORITIES HAVING JURISDICTION.
- ALL MATERIALS AND EQUIPMENT FURNISHED FOR THIS PROJECT SHALL BE NEW, LISTED, AND APPROVED BY UL.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS, LICENSES AND PAY UTILITY COMPANY FEES.
- ALL FUSED AND NON-FUSED DISCONNECT SWITCHES SHALL HAVE: 600 VOLT RATING FOR 480 VOLT CIRCUITS. SIZE FUSES TO COMPLY WITH NAMEPLATE RATING OF EQUIPMENT SERVED.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE NEW TYPEWRITTEN PANEL SCHEDULES WITHIN THE SCOPE OF THIS PROJECT. THIS INCLUDES ALL PANELS EVEN IF ONLY A FEW CIRCUITS WERE CHANGED AS A RESULT OF THIS PROJECT. WHERE ACTUAL FIELD CONDITIONS REQUIRE DIFFERENT CIRCUIT NUMBERS THAN THOSE INDICATED ON PLANS THE CONTRACTOR SHALL ADVISE OWNER OF CHANGES ON REQUIRED AS-BUILT DRAWINGS.
- ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO VERIFY EXISTING DEMAND LOADS ON EXISTING ELECTRICAL EQUIPMENT THAT IS BEING MODIFIED AS PART OF THIS SCOPE OF WORK AND ADVISE ENGINEER OF RECORD/OWNER WHERE THE EXISTING AND NEW EQUIPMENT LOADS EXCEED THE RATING OF THE EXISTING ELECTRICAL EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL CONCEAL ALL NEW WIRING ASSOCIATED WITH NEW SWITCH LOCATIONS AND RECEPTACLES WITHIN EXISTING TILED MASONRY WALLS. CONTRACTOR SHALL INSTALL JUNCTION BOXES ABOVE DROP CEILINGS IN THE LOCATION OF THE NEW DEVICES AS NECESSARY TO ACCESS EXISTING MASONRY CELLS. PROVIDE APPROPRIATE WALL SEALANT MATCHING RATING OF EXISTING WALLS WHERE PENETRATIONS ARE MADE ABOVE DROP CEILINGS.

NEW WORK KEYED NOTES:

GENERAL NEW WORK NOTES ARE INDICATED WITH THE FOLLOWING SYMBOL (○) AND ARE NUMBERED AS FOLLOWS:

- ELECTRICAL CONTRACTOR SHALL RELOCATE EXISTING PANEL 'MSE' ALONG EXISTING WALL AS INDICATED ON PLANS. PROVIDE AND INSTALL ALL WIRING AND CONDUIT REQUIRED TO RE-FEED THE PANEL AND ASSOCIATED DOWNSTREAM EQUIPMENT. REFER TO PANEL SCHEDULES ON SHEET E2.1 FOR ADDITIONAL INFORMATION.
- ELECTRICAL CONTRACTOR SHALL MAINTAIN EXISTING LIGHTNING PROTECTION SYSTEM. MODIFY AS REQUIRED TO ACCOMMODATE NEW ROOF AND WALL CLADDING SCOPE OF WORK.
- ELECTRICAL CONTRACTOR SHALL TIE NEW CARD READER INTO EXISTING SYSTEM AND CARD READER POWER SUPPLY CIRCUIT. COORDINATE EXACT REQUIREMENTS WITH DISTRICTS SECURITY VENDOR.
- TIE NEW EXTERIOR WALL SCONCE (B.O.D. LITHONIA MODEL QVIP LED SHW2 120 RE DOB) INTO EXISTING EXTERIOR LIGHTING CIRCUIT AND CONTROLS. COORDINATE MOUNTING AND FINISH WITH ARCHITECT.

ALL WORK SHOWN IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE.

MEP ENGINEER:

CONCORD ENGINEERING

P.A. 24GA27936700
Phila. Business License No. 107707

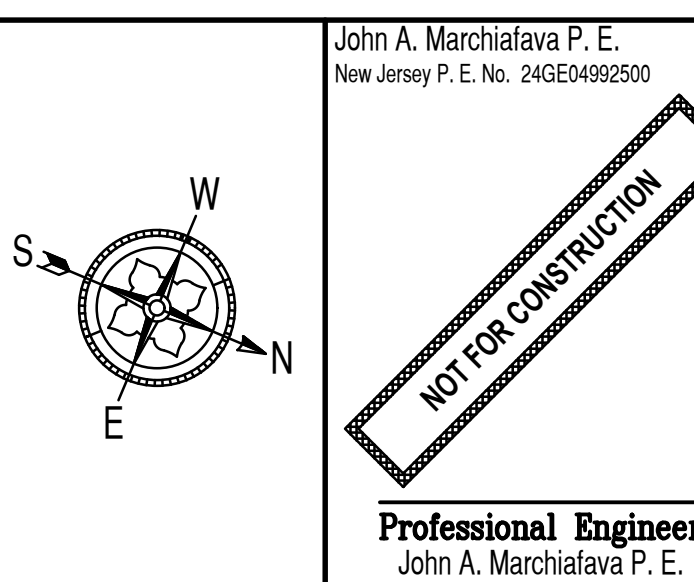
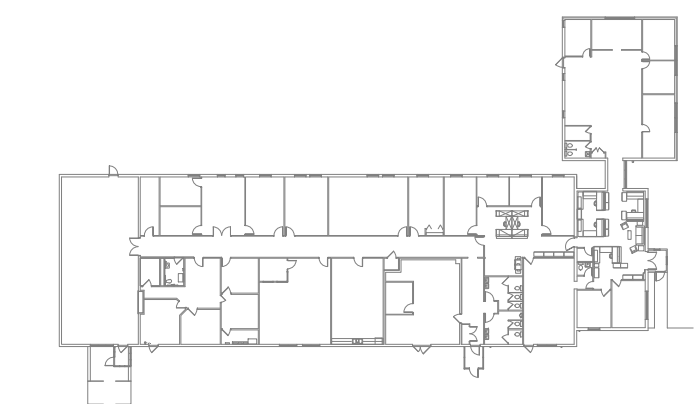
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No.	Date	Description
1	09/10/26	RELEASED FOR BID

REVISIONS:

KEY PLAN:



PROJECT: REF21-42-8302

LRHSD REFERENDUM EXTERIOR BUILDING RESTORATION

ADMINISTRATION BUILDING

93 WILLOW GROVE RD
SHAMONG, NEW JERSEY

DRAWING TITLE:

ELECTRICAL NEW WORK ELEVATIONS

DRAWN BY:	TJT	SCALE:	AS NOTED	DWG SIZE:	42x30
CHECKED BY:	LH	DRAWING NO.		REVISION	
DATE:	09/10/2026				
PROJECT NO.:	8C22002.31				

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Panel: (E)PP12

Location: MECHANICAL ROOM

Fed From: UTILITY

Voltage: 240/120V High Leg Delta, 3P4W

Main Config: MCB | Main Amps: 400

Bus Rating: 400A

Bus Matl: CU

NEMA: 1

Mounting: Surface

Panel Info:

Main Bkr SCA

Branch Bkr SCA

Branch Bkr Series SCA

100% Neutral Bus

Equipment Ground Bus

Isolated Ground Bus

Sub-Feed Lugs

Sub-Feed Breaker

Service Entrance Rated

Amps

(Demand Calculation does not include sub-panel loads)

Category	Conn.	D.F.	Demand	Conn.	D.F.	Demand
Lighting:	0	1.25	0			
Receptacles:	0	1.00	0	0	0.50	0
General:	0	1.25	0	0	1.00	0
Motors:	0	1.00	0	0	0.25	0
Electric Space Htg:	0	1.00	0			0
Kitchen:	0	1.00	0		1st & 2nd:	0
Noncoincident:	0	0.00	0			0
HVAC:	0	1.00	0	0	0.25	0
Demand VA:	0	Demand Amps:	0			

Ckt #	Load Description	Load VA	Breaker Trip P	Wiring	Phase A	Phase B	Phase C	Wiring	Breaker Trip P	Load VA	Load Description	Ckt #
3	(E) EXISTING LOAD		3 60		0	0	0		40 3		(E) EXISTING LOAD	18
4	(E) EXISTING LOAD		- -		0	0	0		- -		(E) EXISTING LOAD	19
5	(E) EXISTING LOAD		- -		0	0	0		- -		(E) EXISTING LOAD	20
6	(E) PWR - AC C102	2 20			0	0	0		15 2		(E) PWR - AC A103	21
7	(E) SPACE		- -		0	0	0		- -		(E) SPACE	22
9	(E) PWR - AC B103	2 15			0	0	0		20 3		(E) EXISTING LOAD	24
10	(E) SPACE		- -		0	0	0		- -		(E) EXISTING LOAD	25
11	(E) SPACE		- -		0	0	0		- -		(E) EXISTING LOAD	26
12	(E) EXISTING LOAD	3 20			0	0	0		60 3		(E) PWR - PANEL MSE	28
13	(E) EXISTING LOAD	- -			0	0	0		- -		(E) PWR - PANEL MSE	29
14	(E) EXISTING LOAD	- -			0	0	0		- -		(E) PWR - PANEL MSE	30
15	(E) PWR - PANEL MSN	3 100			0	0	0		60 3		(E) PWR - PANEL MSW	31
16	(E) PWR - PANEL MSN	- -			0	0	0		- -		(E) PWR - PANEL MSW	32
17	(E) PWR - PANEL MSN	- -			0	0	0		- -		(E) PWR - PANEL MSW	32

Total Connected Load: 0 VA
Total Connected Amps: 0 A

Notes:

Phase	VA	VA (Sub-Feed)	VA (Total)	Amperage
A	0	0	0	
B	0	0	0	
C	0	0	0	

Panel: (E)BOP1

Location: BUSINESS CLOSET

Fed From:

Voltage: 240/120V, 1P3W

Main Config: MLO | Main Amps: 125

Bus Rating: 125

Bus Matl: CU

NEMA: 1

Mounting: Recessed

Panel Info:

Main Bkr SCA

Branch Bkr SCA

Branch Bkr Series SCA

100% Neutral Bus

Equipment Ground Bus

Isolated Ground Bus

Sub-Feed Lugs

Sub-Feed Breaker

Service Entrance Rated

Amps

(Demand Calculation does not include sub-panel loads)

Category	Conn.	D.F.	Demand	Conn.	D.F.	Demand
Lighting:	0	1.25	0			
Receptacles:	0	1.00	0	0	0.50	0
General:	0	1.25	0	0	1.00	0
Motors:	0	1.00	0	0	0.25	0
Electric Space Htg:	0	1.00	0			0
Kitchen:	0	1.00	0		1st & 2nd:	0
Noncoincident:	0	0.00	0			0
HVAC:	0	1.00	0	0	0.25	0
Demand VA:	0	Demand Amps:	0			

Ckt #	Load Description	Load VA	Breaker Trip P	Wiring	Phase A	Phase B	Phase C	Wiring	Breaker Trip P	Load VA	Load Description	Ckt #
1	(E) EXISTING LOAD		1 20		0	0	0		20 2		(E) EXISTING LOAD	2
3	(E) EXISTING LOAD		2 20		0	0	0		- -		(E) EXISTING LOAD	4
5	(E) EXISTING LOAD		- -		0	0	0		- -		(E) EXISTING LOAD	6
7	(E) EXISTING LOAD	2 20			0	0	0		20 1		(E) EXISTING LOAD	8
9	(E) EXISTING LOAD	- -			0	0	0		20 1		(E) EXISTING LOAD	10
11	(E) EXISTING LOAD	1 20			0	0	0		20 2		(E) PWR - SECURITY HEAD END	12
13	(E) SPACE		- -		0	0	0		- -		(E) EXISTING LOAD	14
15	(E) EXISTING LOAD	1 20			0	0	0		30 2		(E) PWR - FRONT AREA MINI-SPLIT	16
17	(E) EXISTING LOAD	1 20			0	0	0		- -		(E) EXISTING LOAD	18
19	(E) EXISTING LOAD	1 20			0	0	0		20 1		(E) EXISTING LOAD	20

Total Connected Load: 0 VA
Total Connected Amps: 0 A

Notes:

Phase	VA	VA (Sub-Feed)	VA (Total)	Amperage
A	0	0	0	
B	0	0	0	
C	0	0	0	

Panel: (E)PP7

Location: MECHANICAL ROOM

Fed From:

Voltage: 240/120V High Leg Delta, 3P4W

Main Config: MCB | Main Amps: 200

Bus Rating: 250A

Bus Matl: CU

NEMA: 1

Mounting: Surface

Panel Info:

Main Bkr SCA

Branch Bkr SCA

Branch Bkr Series SCA

100% Neutral Bus

Equipment Ground Bus

Isolated Ground Bus

Sub-Feed Lugs

Sub-Feed Breaker

Service Entrance Rated

Amps

(Demand Calculation does not include sub-panel loads)

Category	Conn.	D.F.	Demand	Conn.	D.F.	Demand
Lighting:	0	1.25	0			
Receptacles:	0	1.00	0	0	0.50	0
General:	0	1.25	0	0	1.00	0
Motors:	0	1.00	0	0	0.25	0
Electric Space Htg:	0	1.00	0			0
Kitchen:	0	1.00	0		1st & 2nd:	0
Noncoincident:	0	0.00	0			0
HVAC:	0	1.00	0	0	0.25	0
Demand VA:	0	Demand Amps:	0			

Ckt #	Load Description	Load VA	Breaker Trip P	Wiring	Phase A	Phase B	Phase C	Wiring	Breaker Trip P	Load VA	Load Description	Ckt #
1	(E) PWR - CONF. RM. PANEL	2 100			0	0	0		100 2		(E) PWR - PANEL 3	2
3	(E) EXISTING LOAD	- -			0	0	0		- -		(E) EXISTING LOAD	4
5	(E) EXISTING LOAD	1 20			0	0	0		20 1		(E) EXISTING LOAD	6
7	(E) EXISTING LOAD	1 20			0	0	0		20 1		(E) EXISTING LOAD	8
9	(E) EXISTING LOAD	1 20			0	0	0		20 1		(E) EXISTING LOAD	10
11	(E) EXISTING LOAD	1 20			0	0	0		20 1		(E) EXISTING LOAD	12
13	(E) EXISTING LOAD	1 20			0	0	0		20 1		(E) EXISTING LOAD	14
15	(E) PWR - ROOF EF	1 20			0	0	0		20 1		(E) EXISTING LOAD	16
17	(E) EXISTING LOAD	1 20			0	0	0		20 1		(E) EXISTING LOAD	18
19	(E) EXISTING LOAD	1 20			0	0	0		20 1		(E) EXISTING LOAD	20
21	(E) EXISTING LOAD	1 20			0	0	0		20 1		(E) LTG - WALL PACKS	22
23	(E) EXISTING LOAD	1 20			0	0	0		20 1		(E) EXISTING LOAD	24
25	(E) EXISTING LOAD	1 20			0	0	0		20 1		(E) EXISTING LOAD	26
27	(E) EXISTING LOAD	1 20			0	0	0		20 1		(E) EXISTING LOAD	28
29	(E) SPARE	1 20			0	0	0		20 1		(E) SPARE	30
31	(E) PWR - AC B102	2 15			0	0	0		20 1		(E) SPARE	32
33	(E) SPACE	- -			0	0	0		20 1		(E) SPARE	34
35	(E) SPACE		- -		0	0	0		60 2		(E) EXISTING LOAD	36
37	(E) SPACE		- -		0	0	0		- -		(E) EXISTING LOAD	38
39	(E) SPACE		- -		0	0	0		15 2		(E) PWR - AC D101	40
41	(E) SPACE		- -		0	0	0		- -		(E) PWR - AC D101	42

Total Connected Load: 0 VA
Total Connected Amps: 0 A

Notes:

Phase	VA	VA (Sub-Feed)	VA (Total)	Amperage
A	0	0	0	
B	0	0	0	
C	0	0	0	

Panel: (E)PP8

Location: MECHANICAL ROOM

Fed From:

Voltage: 208Y/120V, 3P4W

Main Config: MCB | Main Amps: 200

Bus Rating: 250A

Bus Matl: CU

NEMA: 1

Mounting: Surface

Panel Info:

Main Bkr SCA

Branch Bkr SCA

Branch Bkr Series SCA

100% Neutral Bus

Equipment Ground Bus

Isolated Ground Bus

Sub-Feed Lugs

Sub-Feed Breaker

Service Entrance Rated

Amps

(Demand Calculation does not include sub-panel loads)

Category	Conn.	D.F.	Demand	Conn.	D.F.	Demand
Lighting:	0	1.25	0			
Receptacles:	0	1.00	0	0	0.50	0
General:	0	1.25	0	0	1.00	0
Motors:	0	1.00	0	0	0.25	0
Electric Space Htg:	0	1.00	0			0
Kitchen:	0	1.00	0		1st & 2nd:	0
Noncoincident:	0	0.00	0			0
HVAC:	0	1.00	0	0	0.25	0
Demand VA:	0	Demand Amps:	0			

Ckt #	Load Description	Load VA	Breaker Trip P	Wiring	Phase A	Phase B	Phase C	Wiring	Breaker Trip P	Load VA	Load Description	Ckt #
1	(E) EXISTING LOAD		2 30		0	0	0		70 2		(E) EXISTING LOAD	2
3	(E) EXISTING LOAD	- -			0	0	0		- -		(E) EXISTING LOAD	4
5	(E) PWR - PANEL 9	2 100			0	0	0		100 2		(E) PWR - PANEL PP8A	6
7	(E) EXISTING LOAD	- -			0	0	0		20 1		(E) EXISTING LOAD	10
9	(E) EXISTING LOAD	1 20			0	0	0		20 1		(E) EXISTING LOAD	12
11	(E) EXISTING LOAD	1 20			0	0	0		20 1		(E) EXISTING LOAD	14
13	(E) EXISTING LOAD	1 20			0	0	0		20 1		(E) EXISTING LOAD	16
15	(E) EXISTING LOAD	1 20			0	0	0		20 1		(E) EXISTING LOAD	18
17	(E) EXISTING LOAD	1 20			0	0	0		20 1		(E) EXISTING LOAD	20
19	(E) EXISTING LOAD	1 20			0	0	0		20 1		(E) SPARE	22
21	(E) EXISTING LOAD	1 20			0	0	0		20 1		(E) SPARE	24
23	(N) CONDENSATE PUMPS	1 20			0	0	0		20 1		(E) SPARE	26
25	(N) CONDENSATE PUMPS	1 20			0	0	0		20 1		(E) SPARE	28
27	(E) SPARE	1 20			0	0	0		20 1		(E) SPARE	30
29	(E) SPARE	1 20			0	0	0		20 1		(E) SPARE	32
31	(E) SPARE	1 20			0	0	0		20 1		(E) SPARE	34
33	(E) SPARE	1 20			0	0	0		20 1		(E) SPARE	36
35	(E) SPARE	1 20			0	0	0		20 1		(E) EXISTING LOAD	38
37	(E) SPARE	1 20			0	0	0		20 1		(E) SPARE	40
39	(E) SPACE		- -		0	0	0		- -		(E) SPACE	42
41	(E) SPACE		- -		0	0	0		- -		(E) SPACE	42

Total Connected Load: 0 VA
Total Connected Amps: 0 A

Notes:

Phase	VA	VA (Sub-Feed)	VA (Total)	Amperage
A	0	0	0	
B	0	0	0	
C	0	0	0	

Panel: (E)MSW

Location: WEST EXTERIOR

Fed From: PP12

Voltage: 240/120V High Leg Delta, 3P4W

Main Config: MLO | Main Amps: 100

Bus Rating: 100A

Bus Matl: CU

NEMA: 3R

Mounting: Surface

Panel Info: FED FROM 60A BREAKER IN PANEL PP12

10,000 Main Bkr SCA

10,000 Branch Bkr SCA

Branch Bkr Series SCA

100% Neutral Bus

Equipment Ground Bus

Isolated Ground Bus

Sub-Feed Lugs

Sub-Feed Breaker

Service Entrance Rated

Amps

(Demand Calculation does not include sub-panel loads)

Category	Conn.	D.F.	Demand	Conn.	D.F.	Demand
Lighting:	0	1.25	0			
Receptacles:	0	1.00	0	0	0.50	0
General:	0	1.25	0	0	1.00	0
Motors:	0	1.00	0	0	0.25	0
Electric Space Htg:	0	1.00	0			0
Kitchen:	0	1.00	0		1st & 2nd:	0
Noncoincident:	0	0.00	0			0
HVAC:	0	1.00	0	0	0.25	0
Demand VA:	0	Demand Amps:	0			

Ckt #	Load Description	Load VA	Breaker Trip P	Wiring	Phase A	Phase B	Phase C	Wiring	Breaker Trip P	Load VA	Load Description	Ckt #
1	(E) SPACE		2 40		0	0	0		20 1		(E) RECEPT - GFCI #1	2
3	(E) EXISTING LOAD	- -			0	0	0		20 2		(E) PWR - AC E102	4
5	(E) SPACE	1 20			0	0	0		15 2		(E) PWR - AC E103	6
7	(E) PWR - AC D105	2 20			0	0	0		- -		(E) PWR - AC E104	8
9	(E) PWR - AC D105	- -			0	0	0		- -		(E) PWR - AC E104	10
11	(E) PWR - AC D104	2 20			0	0	0		20 2		(E) PWR - AC E104	12
13	(E) PWR - AC D104	- -			0	0	0		- -		(E) PWR - AC E104	14
15	(E) PWR - AC D104	- -			0	0	0		15 2		(E) PWR - AC C106	16
17	(E) SPACE		- -		0	0	0		- -		(E) PWR - AC C106	18

Total Connected Load: 0 VA
Total Connected Amps: 0 A

Notes:

Phase	VA	VA (Sub-Feed)	VA (Total)	Amperage
A	0	0	0	
B	0	0	0	
C	0	0	0	

Panel: (E)MSN

Location: WEST EXTERIOR

Fed From: PP12

Voltage: 240/120V High Leg Delta, 3P4W

Main Config: MLO | Main Amps: 100

Bus Rating: 100A

Bus Matl: CU

NEMA: 3R

Mounting: Surface

Panel Info: FED FROM 100A BREAKER IN PANEL PP12

10,000 Main Bkr SCA

10,000 Branch Bkr SCA

Branch Bkr Series SCA

100% Neutral Bus

Equipment Ground Bus

Isolated Ground Bus