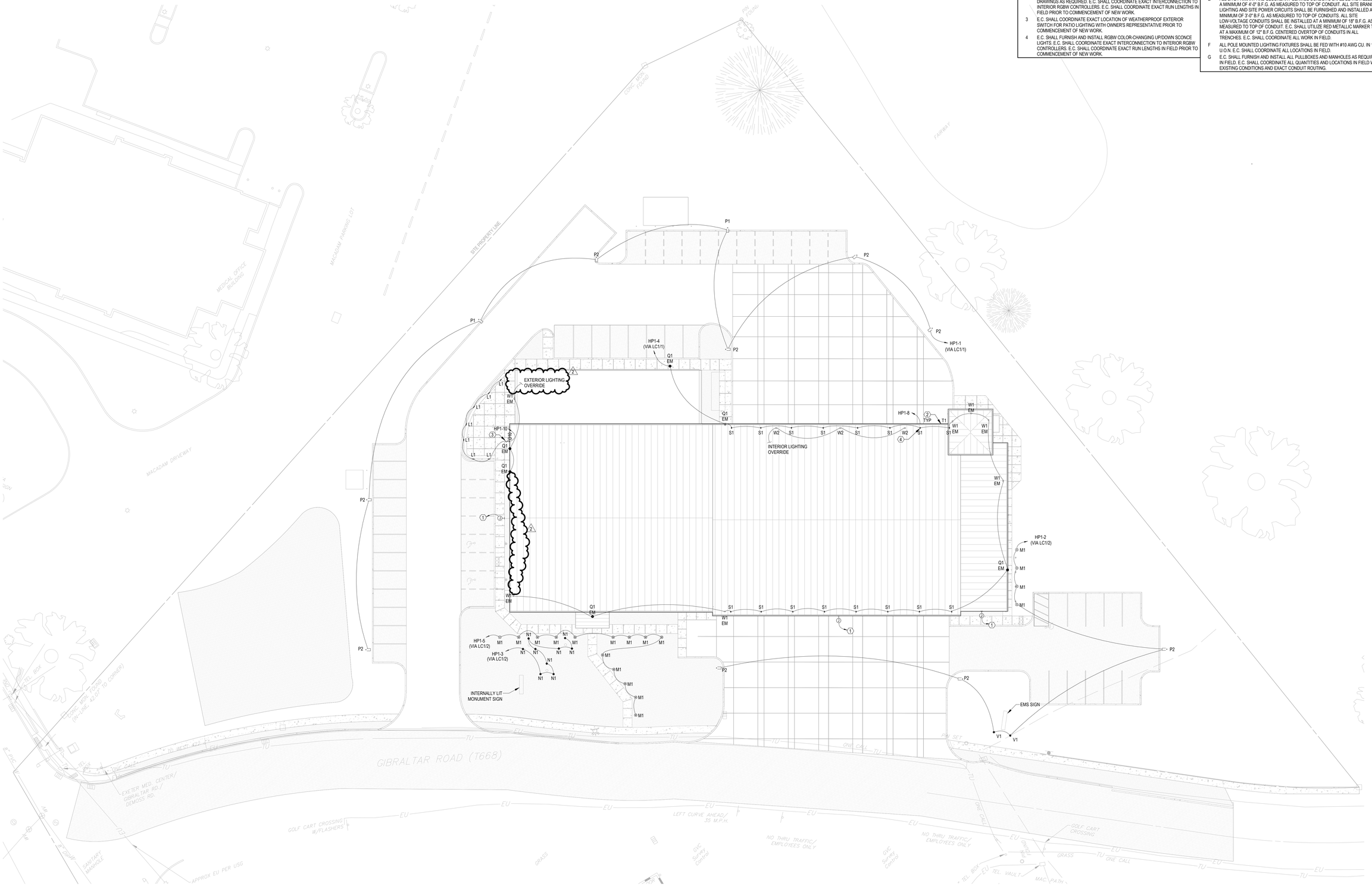
KEYNOTES

1. E.C. SHALL FURNISH AND INSTALL (1) JUNCTION BOX TO EACH BUILDING MOUNTED EXTERIOR INTERNALLY LIT SIGNAGE FED FROM DEDICATED CIRCUIT. E.C. SHALL FURNISH AND INSTALL (1) 1" CONDUIT RUN TO EACH SIGN FOR LOW VOLTAGE CONTROL. E.C. SHALL COORDINATE EXACT INTERCONNECTION TO INTERIOR RGBW CONTROLLERS. E.C. SHALL COORDINATE EXACT SIGNAGE LOCATION AND MOUNTING HEIGHT IN FIELD WITH SIGN VENDOR AND ARCHITECTURAL DRAWINGS PRIOR TO COMMENCEMENT OF NEW WORK.
2. E.C. SHALL FURNISH AND INSTALL RGBW COLOR-CHANGING TAPE LIGHTING ALONG SOFFIT SURROUNDING THE BUILDING. E.C. SHALL ENSURE ALL WIRING FOR LIGHTING IN SOFFITS ARE CONCEALED AND COORDINATE WITH ARCHITECTURAL DRAWINGS AS REQUIRED. E.C. SHALL COORDINATE EXACT INTERCONNECTION TO INTERIOR RGBW CONTROLLERS. E.C. SHALL COORDINATE EXACT RUN LENGTHS IN FIELD PRIOR TO COMMENCEMENT OF NEW WORK.
3. E.C. SHALL COORDINATE EXACT LOCATION OF WEATHERPROOF EXTERIOR SWITCH FOR PATIO LIGHTING WITH OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF NEW WORK.
4. E.C. SHALL FURNISH AND INSTALL RGBW COLOR-CHANGING UP/DOWN SCONCE LIGHTS. E.C. SHALL COORDINATE EXACT INTERCONNECTION TO INTERIOR RGBW CONTROLLERS. E.C. SHALL COORDINATE EXACT RUN LENGTHS IN FIELD PRIOR TO COMMENCEMENT OF NEW WORK.

GENERAL SITE NOTES

- A. ALL ITEMS SHOWN DARK AND SOLID ARE NEW WORK. ALL ITEMS SHOWN LIGHT AND SOLID ARE EXISTING TO REMAIN.
- B. ALL ELECTRIC SERVICE WORK SHALL BE COORDINATED IN FIELD WITH ELECTRIC UTILITY COMPANY.
- C. ALL TRENCHING SHOWN ON PLANS IS DIAGRAMMATICAL. E.C. SHALL COORDINATE ALL TRENCHING IN FIELD.
- D. E.C. SHALL UTILIZE THE SERVIES OF SOFT-DIG OR EQUIVALENT TO SCAN UNDERGROUND FOR EXISTING UTILITIES BEFORE TRENCHING COMMENCES.
- E. ALL SITE PRIMARY AND SECONDARY SERVICE CONDUITS SHALL BE INSTALLED AT A MINIMUM OF 4'-0" B.F.G. AS MEASURED TO TOP OF CONDUIT. ALL SITE BRANCH LIGHTING AND SITE POWER CIRCUITS SHALL BE FURNISHED AND INSTALLED AT A MINIMUM OF 3'-0" B.F.G. AS MEASURED TO TOP OF CONDUITS. ALL SITE LOW-VOLTAGE CONDUITS SHALL BE INSTALLED AT A MINIMUM OF 18" B.F.G. AS MEASURED TO TOP OF CONDUIT. E.C. SHALL UTILIZE RED METALLIC MARKER TAPE AT A MAXIMUM OF 12' B.F.G. CENTERED OVERTOP OF CONDUITS IN ALL TRENCHES. E.C. SHALL COORDINATE ALL WORK IN FIELD.
- F. ALL POLE MOUNTED LIGHTING FIXTURES SHALL BE FED WITH #10 AWG CU. IN 1" C. U.O.N. E.C. SHALL COORDINATE ALL LOCATIONS IN FIELD.
- G. E.C. SHALL FURNISH AND INSTALL ALL PULLBOXES AND MANHOLES AS REQUIRED IN FIELD. E.C. SHALL COORDINATE ALL QUANTITIES AND LOCATIONS IN FIELD WITH EXISTING CONDITIONS AND EXACT CONDUIT ROUTING.



1 ELECTRICAL SITE LIGHTING PLAN

1" = 20'-0"

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EXETER TOWNSHIP
EMERGENCY SERVICES FACILITY
70 GIBRALTAR ROAD
READING PA 19606

PROJECT NUMBER: 25-049

SUBMISSION:
BID SET

ORIGINAL ISSUE DATE:
10/01/2026

SHEET REVISION SCHEDULE:

No.	DATE
2	10/22/26

LAST PROJECT REVISION: No 2 | 10/22/26

ELECTRICAL SITE LIGHTING PLAN

SHEET NUMBER:

E102

10/23/2026 11:15:43 AM

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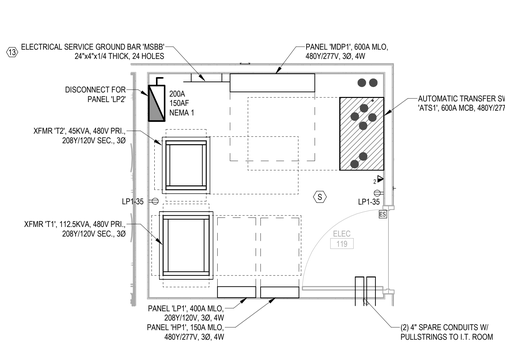
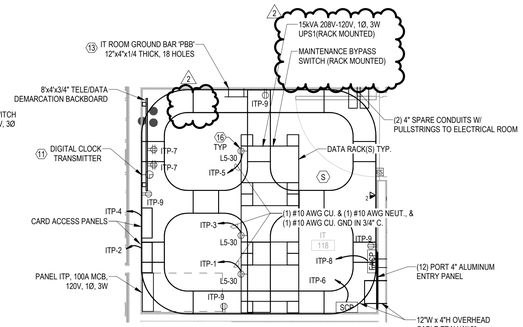


2 FIRST FLOOR ENLARGED ELECTRIC ROOM

3/8" = 1'-0"



3 FIRST FLOOR ENLARGED I.T. ROOM

3/8" = 1'-0"

KEYNOTES

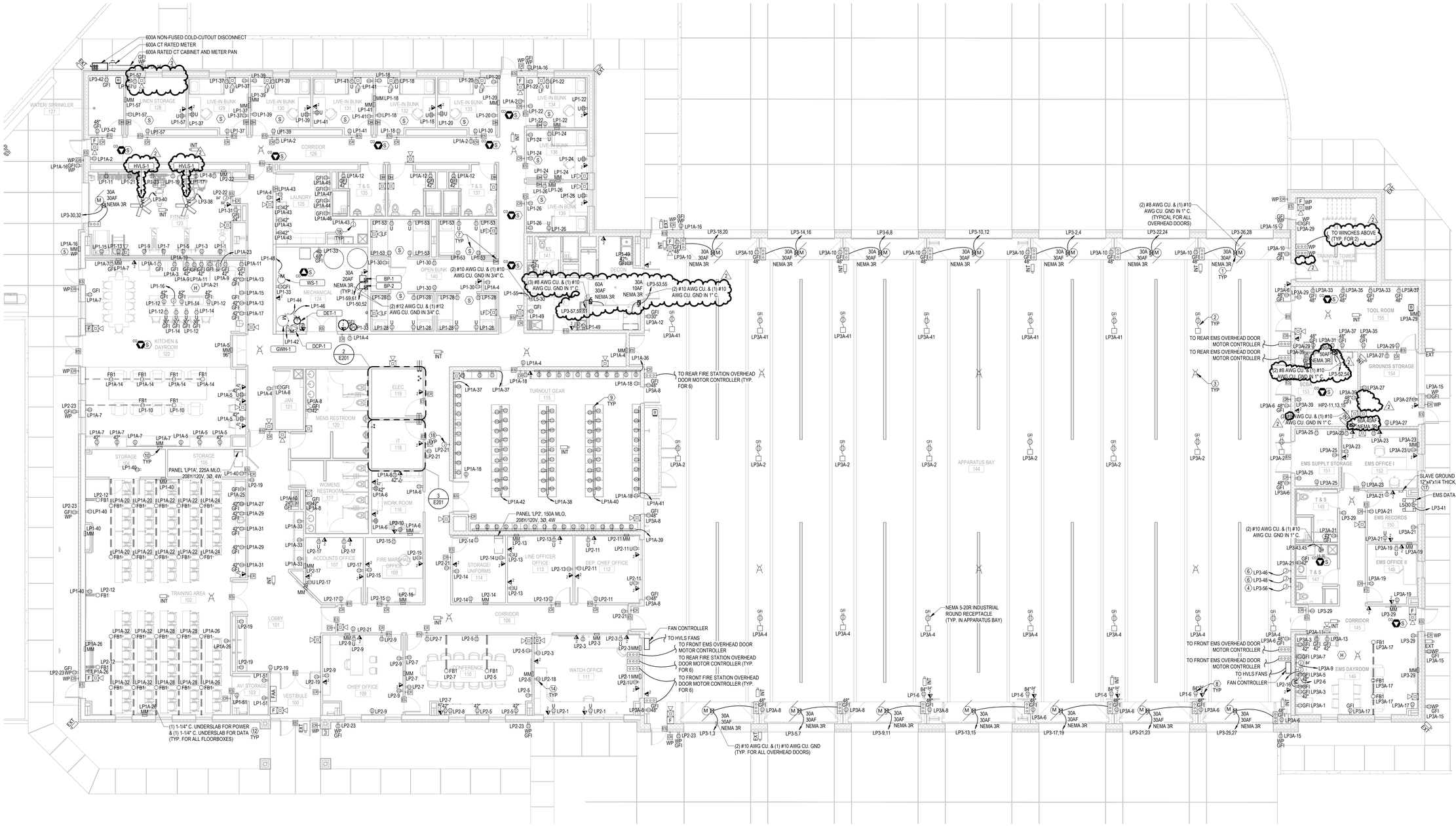
1. E.C. SHALL COORDINATE ALL DEVICES, WIRE SIZES, AND CONNECTIONS WITH OVERHEAD DOOR VENDOR PRIOR TO COMMENCEMENT OF NEW WORK.
2. E.C. SHALL FURNISH AND INSTALL ELECTRIC CORD REEL SECURELY TO BUILDING STRUCTURE. E.C. SHALL FURNISH AND CONFIGURE BALLSTOP FOR PROPER USAGE AND LET DOWN OF ELECTRICAL CORD FROM REEL. E.C. SHALL COORDINATE EXACT LOCATION IN FIELD WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCEMENT OF NEW WORK.
3. E.C. SHALL INSTALL OWNER PROVIDED WIRELESS ACCESS POINT SECURELY TO BUILDING STRUCTURE. E.C. SHALL COORDINATE EXACT LOCATIONS IN FIELD WITH OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF NEW WORK. E.C. SHALL PROVIDE (1) 120V 20A CIRCUIT FOR COIN02 CONTROLS SYSTEM. E.C. SHALL COORDINATE INTERCONNECTION REQUIREMENTS WITH OVERHEAD DOOR MASTER CONTROL BOX AND ALL SUBSEQUENT DOOR CONTROLLERS FOR AUTOMATIC OPENING AND CLOSING VIA THE COIN02 SYSTEM. E.C. SHALL COORDINATE EXACT REQUIREMENTS IN FIELD WITH COIN02 SYSTEM VENDOR AND MECHANICAL CONTRACTOR PRIOR TO COMMENCEMENT OF NEW WORK.
5. E.C. SHALL COORDINATE EXACT LOCATION AND HEIGHT OF EXTERIOR WEATHERPROOF MULTIMEDIA BOX IN FIELD WITH ARCHITECTURAL DRAWINGS AND OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.
6. E.C. SHALL PROVIDE CIRCUIT FOR AIRVAC CONTROLS SYSTEM. E.C. SHALL COORDINATE EXACT LOCATION OF JUNCTION BOX IN FIELD WITH AIRVAC SYSTEM VENDOR AND MECHANICAL CONTRACTOR PRIOR TO COMMENCEMENT OF NEW WORK.
7. E.C. SHALL TIE ELECTROMAGNETIC DOOR HOLDERS AND SMOKE DETECTORS FOR INTERIOR SMOKE RATED DOORS TO FIRE ALARM SYSTEM.
8. E.C. SHALL COORDINATE EXACT LOCATION AND HEIGHTS OF RECEPTACLE AND DATA FOR APPARATUS BAY TELEVISION WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCEMENT OF NEW WORK.
9. E.C. SHALL INSTALL OWNER-FURNISHED GEARGRID POWER BAR ABOVE LOCKERS IN TURNOUT GEAR ROOM. E.C. SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND EXACT POWER BAR RUN LENGTHS WITH ARCHITECTURAL DRAWINGS, GEARGRID VENDOR, AND OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF NEW WORK.

KEYNOTES

10. E.C. SHALL COORDINATE ALL CABLING PATHWAYS FOR MULTIMEDIA SURROUND SOUND IN DAYROOM WITH ARCHITECTURAL DRAWINGS AND AV VENDOR PRIOR TO COMMENCEMENT OF NEW WORK.
11. E.C. SHALL FURNISH AND INSTALL PYRAMID S9DWXSLAUB DIGITAL CLOCK TRANSMITTER. WIRE TO IT ROOM NETWORK PATCH PANEL. COORDINATE CONNECTION PORT WITH IT AND OWNER PRIOR TO INSTALLATION.
12. E.C. SHALL COORDINATE EXACT LOCATIONS OF FLOORBOXES IN FIELD WITH OWNER'S REPRESENTATIVE AND ARCHITECTURAL DRAWINGS PRIOR TO COMMENCEMENT OF NEW WORK.
13. E.C. SHALL FURNISH AND INSTALL GROUND BAR. REFER TO GROUND BAR DETAIL ON SHEET 'E601' FOR MORE INFORMATION.
14. E.C. SHALL FURNISH AND INSTALL RGBW CONTROLLER IN WATCH OFFICE FOR CONTROL OF COLOR CHANGING FIXTURES IN THE BUILDING. E.C. SHALL FURNISH AND INSTALL POE 16 PORT SWITCH FOR LOW-VOLTAGE CAT-6 WIRING FROM CONTROLLER TO SWITCH AND FROM CONTROLLER TO FIXTURES. E.C. SHALL FURNISH AND INSTALL POWER SUPPLY TO FIXTURES AS REQUIRED FROM DATA ENABLER PRO DEVICE IN WATCH OFFICE. E.C. SHALL COORDINATE ALL WORK WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND TYPICAL CONNECTION DIAGRAM SHOWN ON SHEET 'E604' AS TO MAKE RGBW COLOR CHANGING BUILDING SYSTEM 100% OPERATIONAL AND TO OWNER'S SATISFACTION.
15. E.C. SHALL FURNISH AND INSTALL DATA RACK FOR EMS PORTION OF BUILDING. E.C. SHALL COORDINATE ALL ROUTING AND CABLING FROM MAIN I.T. ROOM TO EMS RECORDS ROOM FOR INTERCONNECTION TO MAIN SERVER SYSTEM.
16. E.C. SHALL FURNISH AND INSTALL LOCKING RECEPTACLE ON CABLE TRAY ABOVE RACK. E.C. SHALL COORDINATE ALL WORK IN FIELD.
17. E.C. SHALL FURNISH AND INSTALL SLAVE GROUND BUS BAR IN THIS LOCATION FOR GROUNDING OF ANTENNA SYSTEM. E.C. SHALL BOND SBB TO GROUND BAR PBB IN I.T. ROOM. E.C. SHALL COORDINATE ALL WORK IN FIELD WITH RADIO SYSTEM VENDOR AND G.C. PRIOR TO COMMENCING WORK.
18. E.C. SHALL FURNISH AND INSTALL (1) JUNCTION BOX ABOVE FINISHED CEILING TO FEED NEW TRAP PRIMER. E.C. SHALL COORDINATE FINAL LOCATION AND CONNECTION IN FIELD WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCEMENT OF NEW WORK.

GENERAL POWER NOTES

- A E.C. SHALL COORDINATE ALL DEVICE LOCATIONS IN FIELD WITH ARCHITECTURAL DRAWING AND OWNER'S ONSITE REPRESENTATIVE BEFORE WORK COMMENCES.
- B E.C. SHALL FURNISH AND INSTALL ALL ELECTRICAL SYSTEMS AND EQUIPMENT PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. E.C. SHALL FURNISH AND INSTALL ALL ACCESSORY EQUIPMENT REQUIRED, BUT NOT PROVIDED WITH EQUIPMENT, TO MAKE SYSTEMS AND EQUIPMENT FULLY COMPLETE AND 100% OPERATIONAL.
- C ALL RECEPTACLES SHOWN AS GFCI THAT CANNOT BE INSTALLED IN AN EASILY ACCESSIBLE LOCATION FOR RESET FUNCTIONALITY SHALL BE FURNISHED AS A STANDARD RECEPTACLE FED FROM A GFCI TYPE BREAKER.
- D E.C. SHALL REFER TO DRAWING E000 FOR LEGEND INFORMATION.
- E PROVIDE CUTTING, PATCHING, AND RESTORATION OF FINISHES NECESSARY FOR WORK SURFACES DAMAGED BY THIS WORK. SPACES AROUND CONDUITS PASSING THROUGH FLOORS AND WALLS SHALL BE NEATLY PATCHED AND FINISHED TO MATCH NEW/EXISTING. STRUCTURAL MEMBERS SHALL NOT BE CUT OR PENETRATED IN ANY MANNER. THE SPACES AROUND THE CONDUITS SHALL BE SEALED TO PREVENT ENTRANCE OF MOISTURE. PROVIDE FIRE STOPPING PER UL APPROVED METHODS.
- F E.C. SHALL PROVIDE TYPED CIRCUIT BOARD DIRECTORIES TO REFLECT AS-CONSTRUCTED CONDITIONS. FIELD VERIFY DURING CONSTRUCTION AND REVISE ACCORDINGLY.
- G ALL ITEMS SHOWN DARK AND SOLID REPRESENTS NEW WORK TO BE FURNISHED AND FULLY INSTALLED BY ELECTRICAL CONTRACTOR. ALL ITEMS SHOWN LIGHT AND SOLID REPRESENT EQUIPMENT AND WORK TO BE PERFORMED BY ANOTHER TRADE.



1 FIRST FLOOR POWER PLAN

1/8" = 1'-0"

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PE084137

EXETER TOWNSHIP
EMERGENCY SERVICES FACILITY
70 GIBRALTAR ROAD
READING PA 19606

PROJECT NUMBER: 25-049

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BID SET

ORIGINAL ISSUE DATE:
10/01/2026

SHEET REVISION SCHEDULE:

No.	DATE
2	10/22/26

LAST PROJECT REVISION: No 2 | 10/22/26

FIRST FLOOR POWER PLAN

SHEET NUMBER:

E201

10/23/2026 11:15:54 AM

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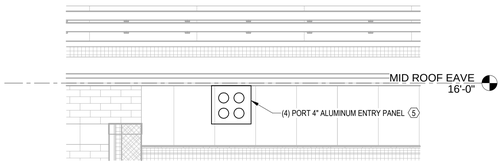
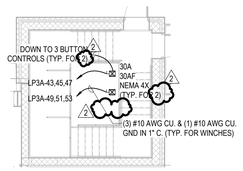


2 RADIO ANTENNA ENTRY PANEL
1/2" = 1'-0"



3 TRAINING TOWER - THIRD FLOOR
1/8" = 1'-0"

GENERAL POWER NOTES

A E.C. SHALL COORDINATE ALL DEVICE LOCATIONS IN FIELD WITH ARCHITECTURAL DRAWING AND OWNER'S ONSITE REPRESENTATIVE BEFORE WORK COMMENCES.

B E.C. SHALL FURNISH AND INSTALL ALL ELECTRICAL SYSTEMS AND EQUIPMENT PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. E.C. SHALL FURNISH AND INSTALL ALL ACCESSORY EQUIPMENT REQUIRED, BUT NOT PROVIDED WITH EQUIPMENT, TO MAKE SYSTEMS AND EQUIPMENT FULLY COMPLETE AND 100% OPERATIONAL.

C ALL RECEPTACLES SHOWN AS GFCI THAT CANNOT BE INSTALLED IN AN EASILY ACCESSIBLE LOCATION FOR RESET FUNCTIONALITY SHALL BE FURNISHED AS A STANDARD RECEPTACLE FED FROM A GFCI TYPE BREAKER.

D E.C. SHALL REFER TO DRAWING E000 FOR LEGEND INFORMATION.

E PROVIDE CUTTING, PATCHING, AND RESTORATION OF FINISHES NECESSARY FOR WORK SURFACES DAMAGED BY THIS WORK. SPACES AROUND CONDUITS PASSING THROUGH FLOORS AND WALLS SHALL BE NEATLY PATCHED AND FINISHED TO MATCH NEW/EXISTING. STRUCTURAL MEMBERS SHALL NOT BE CUT OR PENETRATED IN ANY MANNER. THE SPACES AROUND THE CONDUITS SHALL BE SEALED TO PREVENT ENTRANCE OF MOISTURE. PROVIDE FIRE STOPPING PER UL APPROVED METHODS.

F E.C. SHALL PROVIDE TYPED CIRCUIT BOARD DIRECTORIES TO REFLECT AS-CONSTRUCTED CONDITIONS. FIELD VERIFY DURING CONSTRUCTION AND REVISE ACCORDINGLY.

G ALL ITEMS SHOWN DARK AND SOLID REPRESENTS NEW WORK TO BE FURNISHED AND FULLY INSTALLED BY ELECTRICAL CONTRACTOR. ALL ITEMS SHOWN LIGHT AND SOLID REPRESENT EQUIPMENT AND WORK TO BE PERFORMED BY ANOTHER TRADE.

KEYNOTES

1 E.C. SHALL FURNISH AND INSTALL BRANCH CIRCUIT FROM CEILING FAN TO FAN CONTROLLER. E.C. SHALL FURNISH AND INSTALL FIRE ALARM CONTROL MODULE FOR INTERCONNECTION TO FIRE ALARM SYSTEM FOR AUTOMATIC SHUTDOWN OF CEILING FANS IN A BUILDING SYSTEM FIRE ALARM ACTIVATION EVENT. E.C. SHALL COORDINATE ALL FIRE ALARM WORK IN FIELD WITH FIRE ALARM CONTRACTOR. E.C. SHALL COORDINATE ALL LOCATIONS OF DISCONNECTS AND CONTROLS TO BE IN AN EASILY ACCESSIBLE AREA ON THE FIRST FLOOR AS COORDINATED IN FIELD WITH OWNER/ ARCHITECT.

2 E.C. SHALL WIRE CEILING FANS FROM FAN CONTROLLER. E.C. SHALL CONNECT CEILING FAN WIRING TO A 208V, 2P, 20A RATED FIRE ALARM CONTROL MODULE FOR AUTOMATIC SHUTDOWN OF CEILING FANS IN A BUILDING SYSTEM FIRE ALARM ACTIVATION EVENT. E.C. SHALL COORDINATE ALL FIRE ALARM WORK IN FIELD WITH FIRE ALARM CONTRACTOR.

3 E.C. SHALL FURNISH AND INSTALL ALUMINUM ENTRY PANEL FOR INTERCONNECTION OF RADIO ANTENNA INTERIOR CABLE TRAY RUNS TO EXTERIOR PENETRATION BELOW EAVE ON PEMB BUILDING FACE. E.C. SHALL COORDINATE EXACT LOCATION OF ALUMINUM ENTRY PANEL PENETRATION WITH RADIO ANTENNA VENDOR, ARCHITECTURAL DRAWINGS, AND OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF NEW WORK.

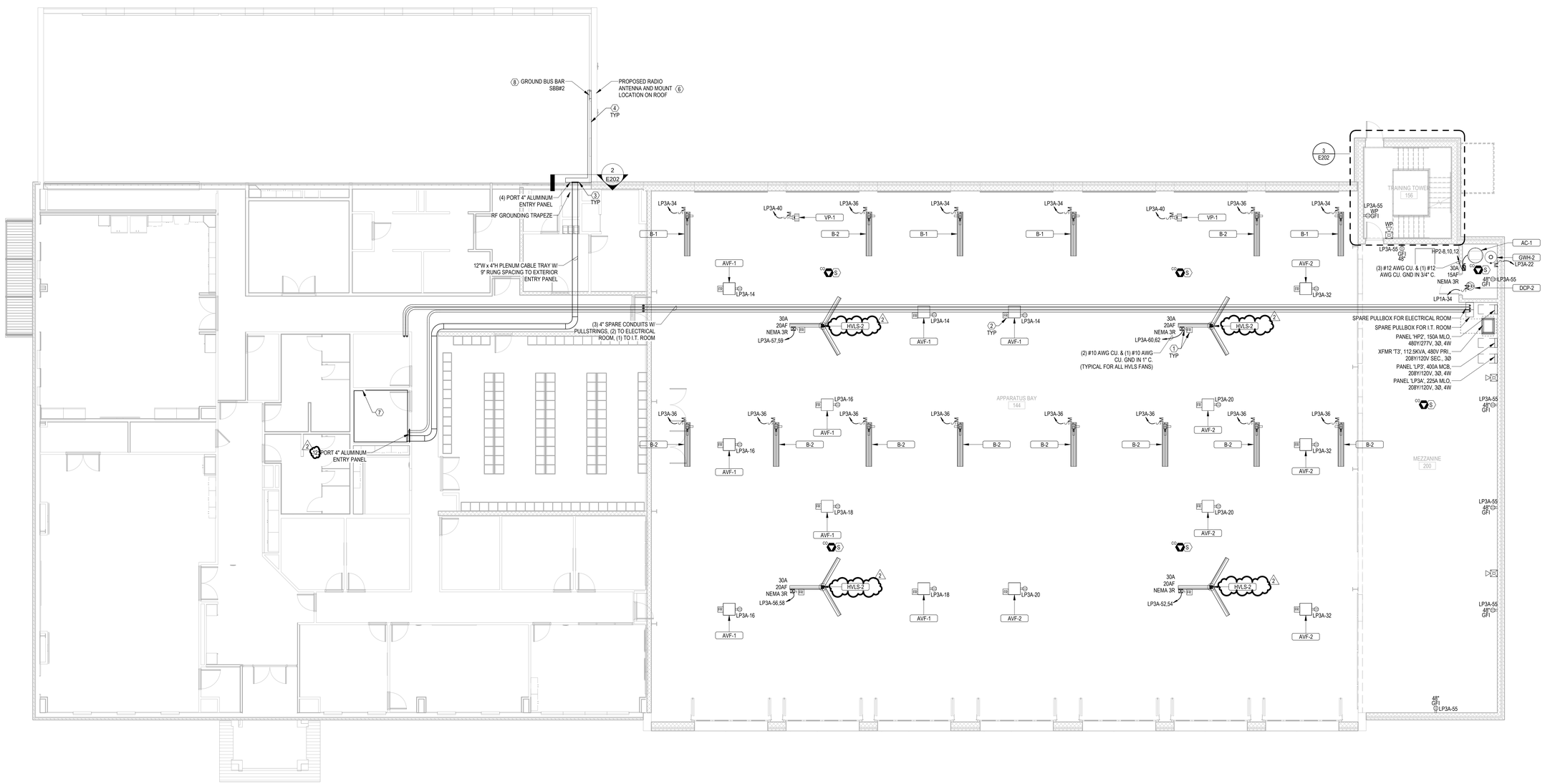
4 E.C. SHALL COORDINATE EXACT ROUTING AND SIZE OF EXTERIOR WALL MOUNTED CABLE MANAGEMENT SYSTEM FOR EXTERIOR RATED RADIO CABLING BY RADIO SYSTEM VENDOR. E.C. SHALL COORDINATE EXACT LOCATION OF RADIO ANTENNAS. E.C. SHALL COORDINATE ALL RADIO ANTENNA SYSTEM EQUIPMENT, ATTACHMENT REQUIREMENTS, AND EXACT FINAL LOCATIONS WITH RADIO SYSTEM VENDOR, ARCHITECTURAL DRAWINGS, AND OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF NEW WORK.

5 E.C. SHALL FURNISH (4) ROXTEC CABLE ENTRY PORT SEALS FOR (4) PORT INTERIOR-EXTERIOR ALUMINUM ENTRY PANEL. E.C. SHALL INSTALL AND SEAL ALL UNUSED PORTS AS PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. E.C. SHALL GROUND ENTRY PANEL TO TRAPEZE LOCATED ON INTERIOR OF BUILDING.

6 E.C. SHALL PERFORM RADIO AMPLIFICATION TESTING AS REQUIRED BY IFC CHAPTER 5. E.C. SHALL COORDINATE ALL TESTING REQUIREMENTS AS REQUIRED BY CODE AND RADIO SYSTEM VENDOR. E.C. SHALL PROVIDE GROUNDING TO ANTENNA MOUNTING LOCATION FURNISHED AND INSTALLED BY G.C.

7 E.C. SHALL FURNISH AND INSTALL HALO RING AT 8' A.F.F. ON WALL AROUND PERIMETER OF ROOM. E.C. SHALL BOND ONE END OF LOOP TO BUS BAR "PBB" AND PROVIDE A BREAK ON THE OTHER END. E.C. SHALL FOLLOW ALL R-56 GROUNDING STANDARDS IN I.T. ROOM.

8 E.C. SHALL FURNISH AND INSTALL SLAVE GROUND BUS BAR IN THIS LOCATION FOR GROUNDING OF ANTENNA SYSTEM. E.C. SHALL BOND SBB TO GROUND BAR PBB IN I.T. ROOM. E.C. SHALL COORDINATE ALL WORK IN FIELD WITH RADIO SYSTEM VENDOR AND G.C. PRIOR TO COMMENCING WORK.



1 MEZZANINE POWER PLAN
1/8" = 1'-0"

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10/01/2026

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No.	DATE
2	10/22/26

LAST PROJECT REVISION: No 2 | 10/22/26

MEZZANINE POWER PLAN

SHEET NUMBER:

E202

10/23/2026 11:15:55 AM

GENERAL POWER NOTES

A E.C. SHALL COORDINATE ALL DEVICE LOCATIONS IN FIELD WITH ARCHITECTURAL DRAWING AND OWNER'S ONSITE REPRESENTATIVE BEFORE WORK COMMENCES.

B E.C. SHALL FURNISH AND INSTALL ALL ELECTRICAL SYSTEMS AND EQUIPMENT PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. E.C. SHALL FURNISH AND INSTALL ALL ACCESSORY EQUIPMENT REQUIRED, BUT NOT PROVIDED WITH EQUIPMENT, TO MAKE SYSTEMS AND EQUIPMENT FULLY COMPLETE AND 100% OPERATIONAL.

C ALL RECEPTACLES SHOWN AS GFCI THAT CANNOT BE INSTALLED IN AN EASILY ACCESSIBLE LOCATION FOR RESET FUNCTIONALITY SHALL BE FURNISHED AS A STANDARD RECEPTACLE FED FROM A GFCI TYPE BREAKER.

D E.C. SHALL REFER TO DRAWING E000 FOR LEGEND INFORMATION.

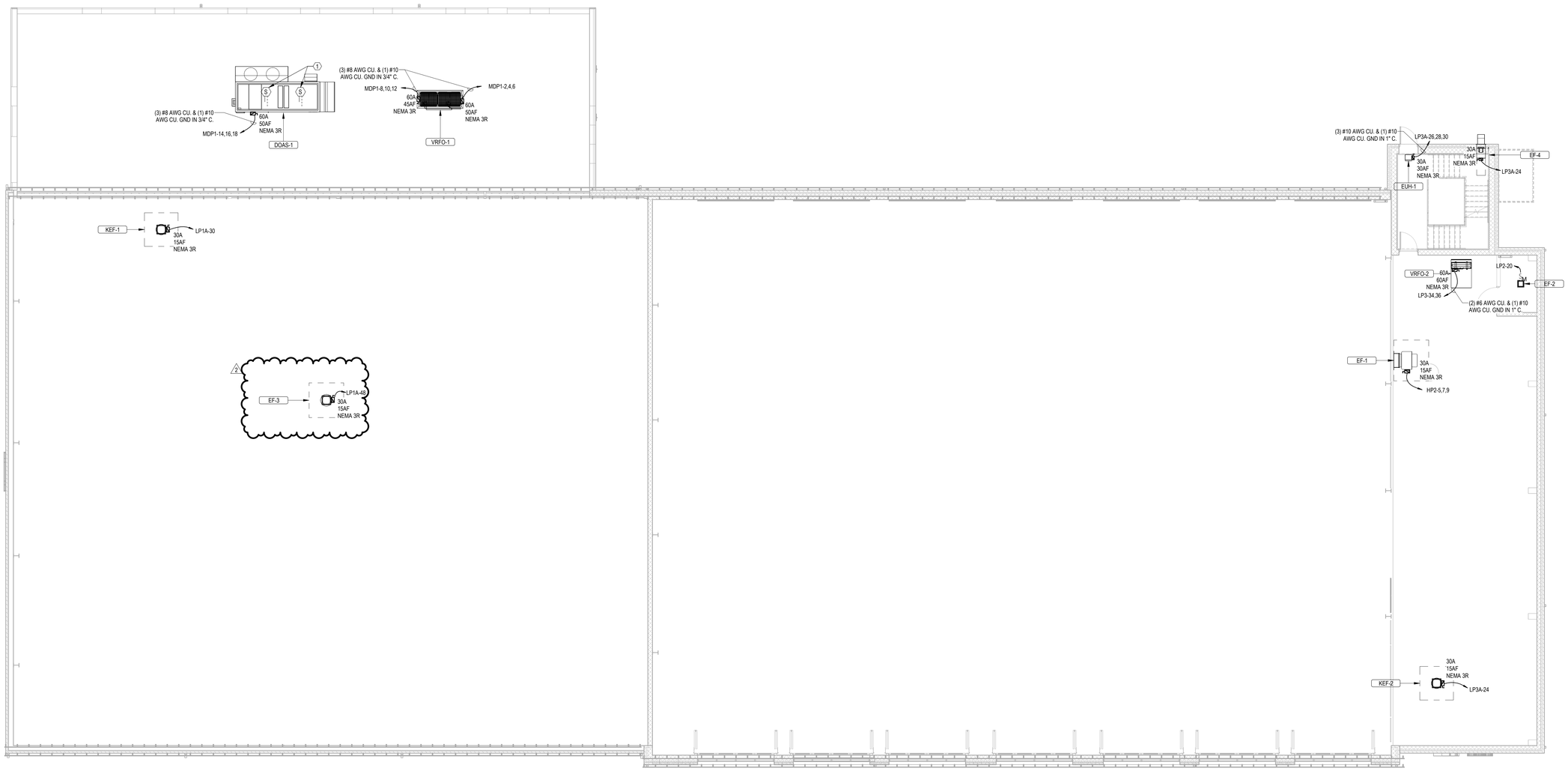
E PROVIDE CUTTING, PATCHING, AND RESTORATION OF FINISHES NECESSARY FOR WORK SURFACES DAMAGED BY THIS WORK. SPACES AROUND CONDUITS PASSING THROUGH FLOORS AND WALLS SHALL BE NEATLY PATCHED AND FINISHED TO MATCH NEW/EXISTING. STRUCTURAL MEMBERS SHALL NOT BE CUT OR PENETRATED IN ANY MANNER. THE SPACES AROUND THE CONDUITS SHALL BE SEALED TO PREVENT ENTRANCE OF MOISTURE. PROVIDE FIRE STOPPING PER UL APPROVED METHODS.

F E.C. SHALL PROVIDE TYPED CIRCUIT BOARD DIRECTORIES TO REFLECT AS-CONSTRUCTED CONDITIONS. FIELD VERIFY DURING CONSTRUCTION AND REVISE ACCORDINGLY.

G ALL ITEMS SHOWN DARK AND SOLID REPRESENTS NEW WORK TO BE FURNISHED AND FULLY INSTALLED BY ELECTRICAL CONTRACTOR. ALL ITEMS SHOWN LIGHT AND SOLID REPRESENT EQUIPMENT AND WORK TO BE PERFORMED BY ANOTHER TRADE.

KEYNOTES

1 E.C. SHALL FURNISH DUCT SMOKE DETECTOR TO MECHANICAL CONTRACTOR FOR INSTALLATION IN DUCTWORK. E.C. SHALL OBTAIN DUCT SMOKE DETECTOR FROM FIRE ALARM CONTRACTOR CONTRACTED TO PROVIDE THE BUILDING'S FIRE ALARM SYSTEM. E.C. SHALL FURNISH AND INSTALL ALL WIRING, CONDUITS, RELAYS AND FIRE ALARM PROGRAMMING FOR DUCT SMOKE DETECTOR INSTALLATION. E.C. SHALL FURNISH AND INSTALL DUCT SMOKE TEST SWITCH IN LOCATION DETERMINED BY OWNER.



1 MEZZANINE AND ROOF EQUIPMENT POWER PLAN

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2	10/22/26

LAST PROJECT REVISION: No 2 | 10/22/26

MEZZANINE AND ROOF EQUIPMENT POWER PLAN

SHEET NUMBER:

E204

10/23/2026 11:15:56 AM