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1. EYEWASH PERFORMANCE AND ROUGH-IN SHALL MEET THE CURRENT VERSION OF ANSI Z358.1.

NOTES:

1. ALL WATER PIPING AND ASSOCIATED VALVES/GUAGES ARE TO BE SUITABLE FOR POTABLE WATER APPLICATIONS

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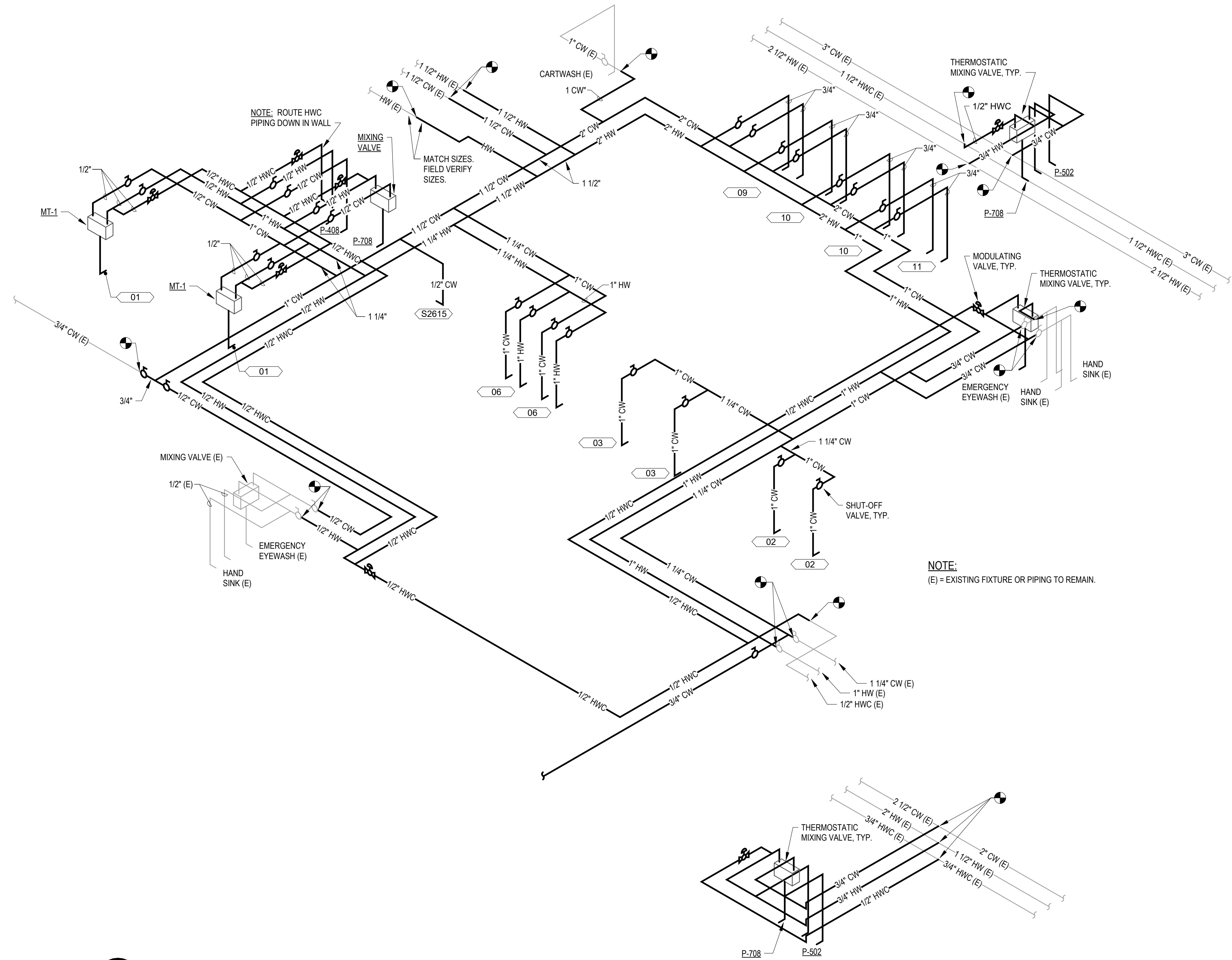
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NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT.

GENERAL SYMBOLS

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| | CONDUIT CONCEALED BELOW SLAB OR GRADE |
| | CONDUIT EXPOSED ON CEILING, WALL OR BAR JOIST FOR EXPOSED |
| | LIGHTING WIRING DENOTING CONTROL ZONES. FIXTURES SHALL BE CONTROLLED TOGETHER |
| | HOME RUN TO PANEL BOARD SHOWING CIRCUIT DESIGNATION, INDICATING PANEL AND CIRCUIT BREAKER NUMBER WITHIN PANEL |

POWER SYMBOLS

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| | QUADRUPLX RECEPTACLE |
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| | QUADRUPLX RECEPTACLE ON BACKUP POWER |
| | ELECTRIC WATER COOLER (GFCI) RECEPTACLE. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF WATER COOLER RECEPTACLE WITH MANUFACTURERS DWGS. |
| | DUPLEX RECEPTACLE WITH ISOLATED GROUND |
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| | SPECIAL PURPOSE OUTLET, AS NOTED ON PLANS OR SPECIFICATIONS |
| | SPECIAL PURPOSE OUTLET ON BACKUP POWER, AS NOTED ON PLANS OR SPECIFICATIONS |
| | FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE |
| | JUNCTION BOX |
| | WIREMOLD/ PLUGMOLD W/ ENTRANCE FITTING AS SPECIFIED AND RECEPTABLES/ DEVICES AS INDICATED ON PLAN |
| | MOTOR; REFER TO PLANS FOR CIRCUITING AND PHASE. |
| | FLOOR BOX. REFER TO FLOOR BOX SCHEDULE FOR ADDITIONAL INFORMATION. |
| | LIGHTING/ RECEPTACLE PANEL |
| | DISTRIBUTION/ POWER PANEL |
| | SURGE PROTECTION DEVICE |
| | TRANSFORMER |
| | MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD PROTECTION AND PILOT LIGHT |
| | NON-FUSED DISCONNECT SWITCH |
| | FUSED DISCONNECT SWITCH |
| | MAGNETIC MOTOR STARTER |
| | MAGNETIC MOTOR STARTER COMBINED WITH DISCONNECT SWITCH |
| | PUSH PLATE FOR DOOR OPERATOR |
| | CIRCUIT BREAKER |
| | FUSIBLE SWITCH |
| | SWITCH PROVIDED W/ MOTORIZED PROJECTION SCREEN, INSTALLED AND WIRED BY ELECTRICAL |
| | EMERGENCY POWER OFF, REFER TO PLANS FOR WIRING DETAILS. |
| | VARIABLE FREQUENCY DRIVE; FURNISHED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR |
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LIGHTING SYMBOLS

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| | WALL MOUNTED LIGHT FIXTURE |
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| | EXIT LIGHT FIXTURE. SHADED AREA DENOTES SINGLE OR DOUBLE FACE. DIRECTIONAL ARROWS AS SHOWN ON PLANS |
| | EMERGENCY BATTERY PACK FIXTURE |
| | POLE MOUNTED SITE LIGHT FIXTURE. NUMBER OF HEADS AS PER DRAWINGS. (NOTE THAT ARROWS INDICATE DIRECTION FOR WHICH OPTIMUM PHOTOMETRIC PERFORMANCE IS DESIRED. FIELD ROTATE REFLECTOR ASSEMBLY IF REQUIRED.) |

SWITCHES - LINE VOLTAGE (120/277V)

(REFER TO SPECIFICATIONS AND LIGHTING SEQUENCE OF OPERATIONS FOR ADDITIONAL INFORMATION)

| | |
|-------|--|
| \$ | GENERAL PURPOSE SINGLE POLE SWITCH EQUAL TO HUBBELL CSL120 |
| \$ 2 | DOUBLE POLE TOGGLE SWITCH EQUAL HUBBELL TO CSL220 |
| \$ 3 | GENERAL PURPOSE 3-WAY SWITCH EQUAL TO HUBBELL CSL320 |
| \$ 4 | GENERAL PURPOSE 4-WAY SWITCH EQUAL TO HUBBELL CSL420 |
| \$ | DIMMING SWITCH EQUAL TO LUTRON DIVA |
| \$ K | GENERAL PURPOSE KEY-OPERATED SWITCH |
| \$ 3K | GENERAL PURPOSE 3-WAY KEY-OPERATED SWITCH |
| \$ 4K | GENERAL PURPOSE 4-WAY KEY-OPERATED SWITCH |
| \$ P | GENERAL PURPOSE SWITCH WITH PILOT LIGHT |
| \$ | CONTACTOR |
| \$ | TIME CLOCK |

SWITCHES - LOW VOLTAGE (DIGITAL)

(REFER TO SPECIFICATIONS AND LIGHTING SEQUENCE OF OPERATIONS FOR ADDITIONAL INFORMATION)

| | |
|----|---|
| \$ | OCCUPANCY SENSOR SWITCH EQUAL TO CURRENT NXSMOT |
| \$ | DIGITAL WALL SWITCH EQUAL TO CURRENT NXSWR |
| \$ | CEILING MOUNT OCCUPANCY SENSOR EQUAL TO CURRENT NXSDT |
| \$ | DAYLIGHT PHOTOSENSOR EQUAL TO CURRENT NXDS |
| \$ | EXTERIOR PHOTOCCELL |

ELECTRICAL ABBREVIATIONS

ABBREVIATIONS USED ON DRAWINGS IN GENERAL ARE LISTED BELOW.

| | |
|--------|--|
| A | AMPS |
| AC | AIR CONDITIONING |
| AF | AMP FRAME |
| AFR | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AHU | AIR HANDLING UNIT |
| A.I.C. | AMPS INTERRUPTING CAPACITY |
| ATS | AUTOMATIC TRANSFER SWITCH |
| AT | AMP TRIP |
| BRKR | BREAKER |
| C | CONDUIT |
| CATV | CABLE ANTENNA TELEVISION |
| CKT | CIRCUIT |
| CLG | CEILING MOUNTED |
| CPT | CONTROL POWER TRANSFORMER |
| CPU | CENTRAL PROCESSING UNIT |
| CUH | CABINET UNIT HEATER |
| Cu | COPPER |
| DIA | DIAMETER |
| DISTR | DISTRIBUTION |
| E | EXISTING TO REMAIN |
| EC | ELECTRICAL CONTRACTOR |
| EF | EXHAUST FAN |
| ELEC | ELECTRICAL |
| EM | EMERGENCY LIGHTING WITH CONNECTION TO EMERGENCY POWER SOURCE |
| EMT | ELECTRICAL METALLIC TUBING |
| ER | EXISTING TO BE REMOVED |
| EXP | EXPLOSION PROOF |
| EXR | EXISTING TO BE RELOCATED |
| EWC | ELECTRIC WATER COOLER |
| F | FUSE |
| FAAP | FIRE ALARM ANNUNCIATOR PANEL |
| FACP | FIRE ALARM CONTROL PANEL |
| FAGAP | FIRE ALARM GRAPHIC ANNUNCIATOR PANEL |
| FCU | FAN COIL UNIT |
| FIXT | LIGHT FIXTURE |
| FLUOR | FLUORESCENT |
| FS | FUSIBLE SWITCH |
| G | GROUND |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTING PROTECTION |
| GRC | GALVANIZED RIGID CONDUIT |
| HD | HIGH INTENSITY DISCHARGE |
| HP | HORSE POWER |
| IDF | INTERMEDIATE DISTRIBUTION FRAME |
| IG | ISOLATED GROUND |
| J | JUNCTION BOX |
| KEC | KITCHEN EQUIPMENT CONTRACTOR |
| KVA | KILOVOLT AMPERE |
| KW | KILOWATTS |
| LC | LIGHTING CONTACTOR |
| MCB | MAIN CIRCUIT BREAKER |
| MCC | MOTOR CONTROL CENTER |
| MEF | MAIN DISTRIBUTION FRAME |
| MECH | MECHANICAL |
| MLO | MAIN LUG ONLY |
| MSB | MAIN SWITCHBOARD |
| MTD | MOUNTED |
| NAC | NOTIFICATION APPLIANCE CIRCUIT |
| NEC | NATIONAL ELECTRICAL CODE |
| NIC | NOT IN CONTRACT |
| NL | NIGHT LIGHT |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| PH | PHASE |
| P | POLE |
| PB | PULL BOX |
| PC | PHOTOELECTRIC CONTROL |
| PE | PNEUMATIC/ELECTRIC |
| PNL | PANEL |
| PVC | POLYVINYL CHLORIDE |
| QR | QUARTZ RESTRIKE |
| R | RELOCATED |
| SW | SWITCH |
| TCF | TEMPERATURE CONTROL PANEL |
| TV | TELEVISION |
| TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSOR |
| TYP | TYPICAL |
| UH | UNIT HEATER |
| UNO | UNLESS NOTED OTHERWISE |
| UPS | UNINTERRUPTIBLE POWER SUPPLY |
| V | VOLTS |
| VAV | VARIABLE AIR VOLUME |
| VFD | VARIABLE FREQUENCY DRIVE |
| VIF | VERIFY IN FIELD |
| VC | VOLUME CONTROL |
| W | WATTS OR WALL MOUNTED |
| WG | WIRE GUARD |
| WP | WEATHER PROOF TYPE DEVICE |
| XFMR | TRANSFORMER |

ELECTRICAL SYSTEM INDICATION

| | | |
|--------------------------------------|--|---|
| HEAVY LINE-WEIGHT INDICATES NEW WORK | LIGHT LINE-WEIGHT INDICATES EXISTING EQUIPMENT OR REFERENCED INFORMATION | DASHED LINE-WEIGHT INDICATES MATERIALS TO BE DISCONNECTED AND REMOVED |
|--------------------------------------|--|---|

DRAWING REVISION SYMBOL

DRAWING REVISION NUMBER

NOTES BY SYMBOL

KEYED NOTE NUMBER

TEXT LEADER

INFORMATION TEXT

EQUIPMENT TAG IDENTIFICATION

REFERENCE E002 FOR EQUIPMENT BRANCH CIRCUIT REQUIREMENTS

DRAWING/ DETAIL TITLE

NOTE: DRAWING TITLE MAY NOT APPEAR ON LARGE SCALE DETAIL DRAWINGS

DETAIL NUMBER

DRAWING TITLE

#H10

#H10 = 1'-0"

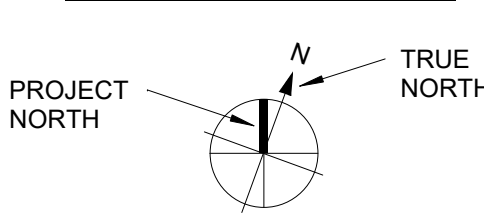
SECTION CUT SYMBOL

SECTION NUMBER

1

SHEET WHERE SECTION IS DRAWN

NORTH ARROW



ENLARGED PLAN DETAIL

ENLARGED PLAN NUMBER




1

REFER TO THIS SHEET FOR ENLARGED PLAN

ELECTRICAL SHEET INDEX

| E-001 | ELECTRICAL SYMBOLS, ABBREVIATIONS, GENERAL NOTES |
|-----------------|--|
| ES-101 | ELECTRICAL SITE PLAN |
| ESR-101 | ELECTRICAL SITE RESTORATION PLAN |
| ED-101 | LOWER LEVEL - LIGHTING DEMOLITION PLAN |
| ED-102 | LOWER LEVEL - POWER DEMOLITION PLAN |
| EL-101 | LOWER LEVEL - LIGHTING PLAN |
| EP-101 | LOWER LEVEL - POWER PLAN |
| EQ-101 | LOWER LEVEL - EQUIPMENT POWER PLAN |
| E-501 | ONE-LINE DIAGRAM & ELECTRICAL DETAILS |
| E-601 | ELECTRICAL SCHEDULES |
| E-602 | ELECTRICAL SCHEDULES |
| GRAND TOTAL: 11 | |

BID DOCUMENT SUBMISSION

| | | | | | | | | | | |
|--|-------------------|---|---|---|--|-------------------------------------|-------|-----------------|--|----------------|
| | | <div>CONSULTANT</div> <div></div> <div>2882 106TH STREET DES MOINES IA 50322</div> | <div>DESIGNER OF RECORD</div> <div></div> <div>13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4090 ae-mn.com Anderson Engineering of Minnesota, LLC Proj # 17639</div> | <div>STAMP</div> <div>I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota</div> <div>Print Name: <u>Andrew T. Weber</u></div> <div>Signature: <u>Andrew T. Weber</u></div> <div>Date: <u>01/22/2025</u> License # <u>62718</u></div> | <div>Office of Construction and Facilities Management</div> <div> U.S. Department of Veterans Affairs</div> | Drawing Title | Phase | Project Title | | Project Number |
| ELECTRICAL SYMBOLS, ABBREVIATIONS, GENERAL NOTES | BID DOCUMENTS | | | | | PERFORM SITE PREP FOR SPS EQUIPMENT | | 437-CSI-241 | | |
| Approved: | | | | | | Location | | Building Number | | |
| | FULLY SPRINKLERED | | | | | FARGO, ND | | 9 | | |
| Revisions: | | Date: | Issue Date | Checked | Drawn | E-001 | | | | |
| | | | 01/22/2025 | ATW | JPC | | | | | |

ELECTRICAL SITE NOTES

4. UTILITIES SHOWN ARE INDICATED SCHEMATICALLY. CONTRACTORS SHALL VERIFY ALL DEPTHS AND ALL LOCATIONS DIMENSIONALLY PRIOR TO EXCAVATING. ALL UTILITIES MAY NOT BE SHOWN.
5. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION ON EXISTING AND NEW SITE CONDITIONS INCLUDING UTILITIES.
6. ALL UNDERGROUND UTILITIES, PIPING, ETC. SHALL BE LOCATED EXACTLY PRIOR TO DIGGING.
7. ANY BACKFILL SHALL BE TAMPED AND COMPACTED TO PREVENT FUTURE SETTLING. ALL EXCESS DIRT SHALL BE CLEARED FROM THE AREA AND DISPOSED OF.
8. MECHANICAL AND ELECTRICAL CONTRACTORS SHALL REPAIR ALL DISTURBED SURFACES SUCH AS SIDEWALKS, DRIVEWAYS, STREETS, GRASS, AND CONCRETE. REPLACED SURFACES SHALL MATCH EXISTING.

ELECTRICAL SITE PLAN KEYED NOTES

- CONNECT TO EXISTING 230V/ SECTIALIZING SWITCH. PROVIDE NEW 25 FUSES AND ACCESSORIES REQUIRED FOR COMPLETE CONNECTION.

PROVIDE TEMPORARY 5000V DIESEL MOBILE GENERATOR AND TRAILER WITH 400V, 3-PHASE OUTPUT. GENERATOR SHALL BE PROVIDED WITH 600 AMP MAIN CIRCUIT BREAKER AND 30 AMP JUNCTION BOX. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS. PROVIDE RENTAL EQUIPMENT FOR DURATION OF CONSTRUCTION. COORDINATE ORDERING WITH GENERAL CONTRACTOR AND REMOVAL OF MOBILE SPD TRAILER.

PROVIDE 480V, 3Ø, 600A, FUSED, NEMA 3R DISCONNECT. COORDINATE MOUNTING WITH TEMPORARY POST STRUCTURE.

PROVIDE 480V, 3Ø, 600A, AUTOMATIC TRANSFER SWITCH. PROVIDE RENTAL FOR THE DURATION OF CONSTRUCTION. COORDINATE ORDERING WITH GENERAL CONTRACTOR AND ARRIVAL OF MOBILE SPD TRAILER.

PROVIDE 480V, 600A, NEMA 3R GENERATOR QUICK CONNECT CABINET. COORDINATE MOUNTING WITH TEMPORARY POST STRUCTURE.

PROVIDE 480/277V, 600A RATED DISTRIBUTION PANEL, WITH 800A MAIN CIRCUIT BREAKER. PANEL SHALL BE NEMA 3R. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL PANEL AND CIRCUITING INFORMATION.

PROVIDE 300VA, NEMA 3R TRANSFORMER WITH 480V DELTA PRIMARY AND 208/120V WYE SECONDARY. PROVIDE TEMPORARY INSTANT STRUCTURE TO MOUNT TRANSFORMER LEVEL.

PROVIDE 208/120V, 100VA PANEL WITH 30 SPACES. PANEL SHALL BE NEMA 3R. REFER TO ONE-LINE SCHEDULE FOR ADDITIONAL PANEL AND CIRCUITING INFORMATION.

PROVIDE 480V, 400A RATED, NEMA 3R DISCONNECT. COORDINATE ELECTRICAL CONNECTION WITH STERIS EQUIPMENT. PROVIDE TYPE 4SO CABLES TO DISCONNECTS. ROUTE UNDER TEMP ENCLOSURE. PROVIDE TYPE 4SO CABLES TO STERIS EQUIPMENT.

EXISTING EXTERIOR WALL PUMP SHALL BE REMOVED AND REINSTALLED WITH DURATION OF TEMPORARY ENCLOSURE FOR THE DURATION OF CONSTRUCTION. EXISTING EXTERIOR TO NEW LOCATION. COORDINATE PHASING WITH GENERAL CONTRACTOR.

COORDINATE ELECTRICAL CONNECTION WITH STERIS PROVIDED ELECTRICAL PANEL. SERVING HEATERS. 208V-1PH, 100A CIRCUIT SHALL BE LANDED IN PANEL LUGS.

PROVIDE TEMPORARY FREE STANDING RACK TO MOUNT EQUIPMENT. EXTERIOR RACK SHALL BE CONSTRUCTED FROM WOOD AND UNISTRUT AND BE SECURED TO EXISTING CONCRETE FOUNDATION.

FINAL CONDUIT ROUTING SHALL BE COORDINATED WITH ALL TRADES. COORDINATE ALL REQUIRED CLEANS, REMOVAL AND CORE DRILLING WITH GENERAL CONTRACTOR. DOWNTIME SHALL BE COORDINATED WITH GENERAL CONTRACTOR DURING CONSTRUCTION.

PROVIDE TEMPORARY 5000VA PAD-MOUNTED TRANSFORMER WITH 230V PRIMARY AND 480V SECONDARY. TRANSFORMER SHALL HAVE PRIMARY SURGE ARRESTORS. PROVIDE RENTAL FOR DURATION OF CONSTRUCTION. COORDINATE ORDERING WITH GENERAL CONTRACTOR AND ARRIVAL OF MOBILE SPD TRAILER. COORDINATE CONDUIT STUB UP IN CONCRETE PAD WITH GENERAL CONTRACTOR.

ACCESS CONTROL LOCATION. REFER TO LOW VOLTAGE DETAILS AND ARCHITECTURAL SPECIFICATIONS FOR OPERATION AND FURTHER INFORMATION. PROVIDE INFORMATION. COORDINATE ALL DOOR HUGS, CARD READERS, AUTOMATIC OPERATORS, AND OTHER ACCESSORIES WITH DESIGN TEAM PRIOR TO ROUGH-IN.

PROVIDE SURFACE MOUNTED RACEWAY TO NEW AUTOMATIC OPERATOR PUSH PAD DOOR OPERATORS.

PROVIDE CONTRACTOR SHALL PROVIDE HEAT TRACE CONTROLLER AND INTAL ON EXTERIOR OF PIPE ABOVE ACCESSIBLE CEILING. INSTALL SENSOR ON EXTERIOR OF TEMPORARY ENCLOSURE. COORDINATE WITH MECHANICAL AND FIRE PROTECTION CONTRACTOR.

INSTALL RAYCHEM SELF REGULATING HEATING CABLE MODEL NUMBER 5812V-3R 3WFT OR EQUAL ON FIRE PROTECTION HOT, HOT AND COLD WATER PIPES. PROVIDE INFORMATION. COORDINATE WITH FIRE PROTECTION DISTANCE 40'. COORDINATE INSTALLATION WITH FIRE PROTECTION AND MECHANICAL CONTRACTORS. PROVIDE ALL PARTS AND PIECES REQUIRED FOR COMPLETE AND FUNCTIONAL INSTALLATION.

CONTRACTOR SHALL PROVIDE HEAT TRACE CONTROLLER AND INTAL ON EXTERIOR OF WASTE WATER PIPE BELOW SPD TRAILER. INSTALL SENSOR ON EXTERIOR OF TEMPORARY ENCLOSURE. COORDINATE WITH MECHANICAL CONTRACTOR.

INSTALL RAYCHEM SELF REGULATING HEATING CABLE MODEL NUMBER 5812V-3R 3WFT OR EQUAL ON WASTE WATER PIPES FROM SPD TRAILER TO SEWER CONNECTION. TOTAL APPROXIMATE DISTANCE 20'. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. PROVIDE ALL PARTS AND PIECES REQUIRED FOR COMPLETE AND FUNCTIONAL INSTALLATION.

NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN



CONSULTANT

 **IMEG**

2882 106TH STREET
DES MOINES IA 50322

STAMP

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

Print Name: Andrew T. Weber

Signature: Andrew T. Weber

Date 01/22/2025 License # 62718

Office of
Construction
and Facilities
Management

VA | U.S. Department
of Veterans
Affairs

Phase

BID DOCUMENTS

FULLY SPRINKLERED

| |
|-------------------------------|
| Project Number 437-CSI-241 |
| Building Number 9 |
| Drawing Number ES-101 |

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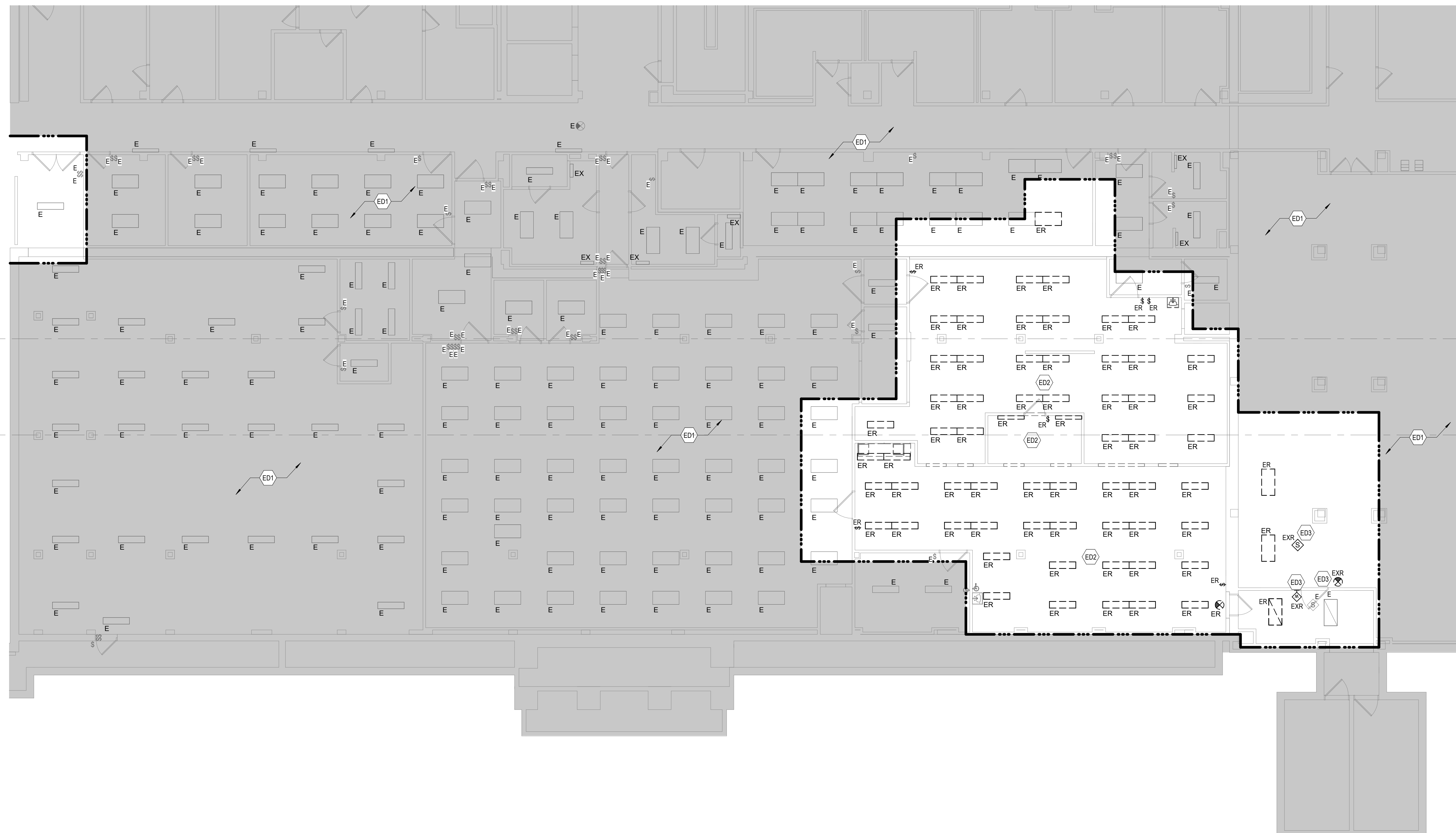
ELECTRICAL DEMOLITION GENERAL NOTES

1. DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS AND FIELD OBSERVATION. ELECTRICAL CONTRACTORS SHALL FIELD VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID.
2. ALL REQUIRED DEMOLITION MAY NOT BE INDICATED. IT IS THE INTENT OF THESE DOCUMENTS THAT ALL MECHANICAL AND ELECTRICAL SYSTEMS NOT TO BE REUSED OR EXTENDED) BE REMOVED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
3. REMOVE ALL ELECTRICAL CONNECTIONS, WIRING, AND CONDUIT SERVING ALL EQUIPMENT TO BE REMOVED.
4. MAINTAIN FIRE RATINGS OF WALLS AND FLOORS AFFECTED BY DEMOLITION.
5. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS ON FLOOR CUTTING AND CEILING REMOVAL. CONTRACTOR SHALL COORDINATE WORK TO BE CONSISTENT WITH SCOPE OF GENERAL CONTRACTORS DEMOLITION.

ELECTRICAL DEMOLITION PLAN KEYED NOTES



- | | |
|-----|--|
| ED1 | NO ELECTRICAL DEMOLITION SCOPE IN THIS AREA. |
| ED2 | REMOVE ALL LIGHT FIXTURES, LIGHTING CONTROLS, EMERGENCY LIGHTING, RECEPTACLES, AND ELECTRICAL EQUIPMENT IN THIS AREA UNLESS NOTED OTHERWISE OR NECESSARY FOR THE OPERATION OF DEVICES OUTSIDE THE SCOPE OF REMODELING. |
| ED3 | DISCONNECT AND STORE FOR RELOCATION IN NEW LOCATION AFTER ARCHITECTURAL WORK HAS BEEN COMPLETED. SEE NEW WORK PLAN FOR NEW LOCATIONS. |

NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN



1 LOWER LEVEL - LIGHTING DEMOLITION PLAN
1/8" = 1'-0"

 $1/8'' = 1:0$

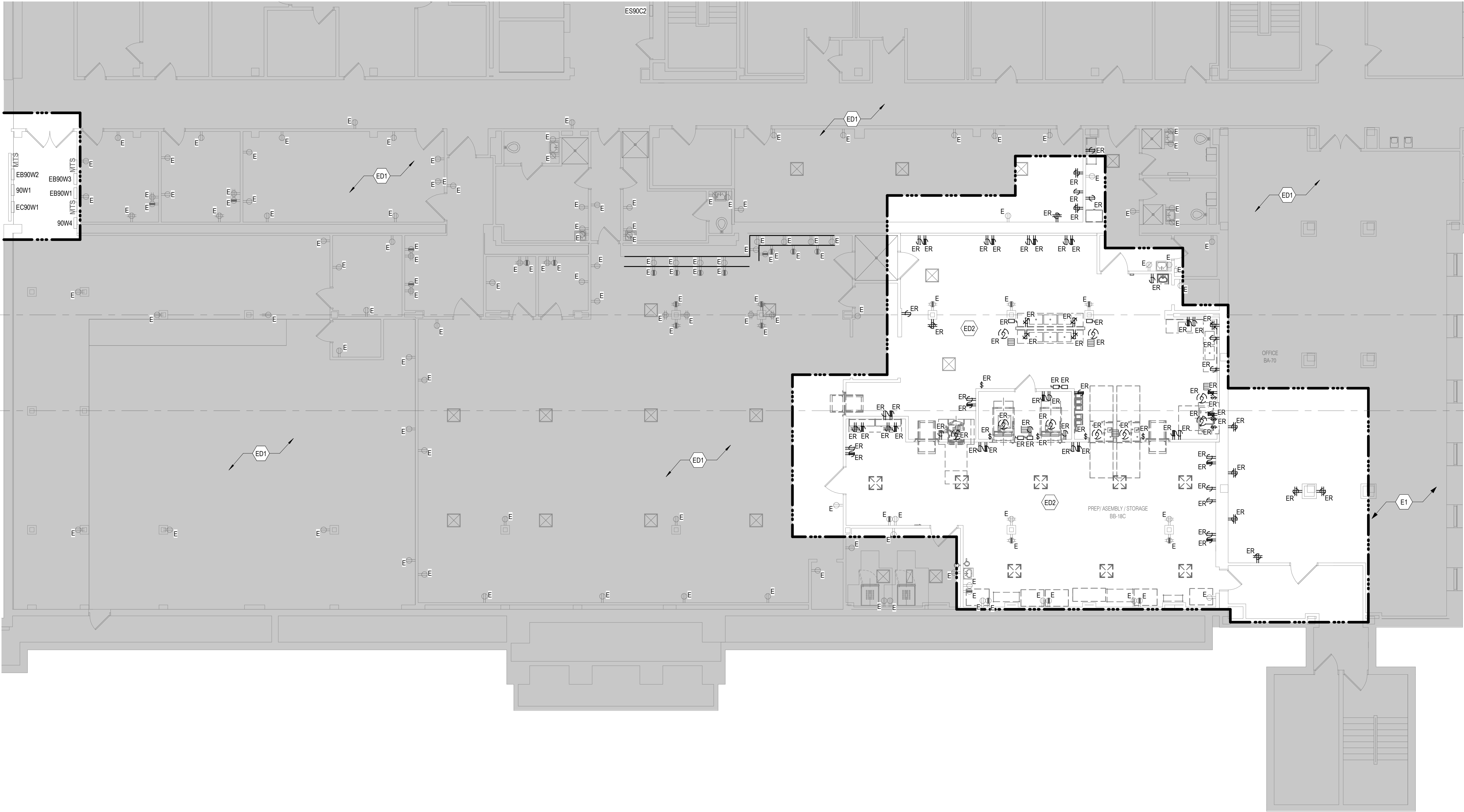
| | | | | | | | | | | | |
|--|--|---|---|---|--|--|-------------------|-------------------------------------|----------------------|----------------|--------|
| | | CONSULTANT | DESIGNER OF RECORD | STAMP | <div>Office of Construction and Facilities Management</div> <div>VAU.S. Department of Veterans Affairs</div> | Drawing Title | Phase | Drawing Title | Project Title | Project Number | |
| | |  |  | I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota. | | LOWER LEVEL - LIGHTING DEMOLITION PLAN | BID DOCUMENTS | PERFORM SITE PREP FOR SPS EQUIPMENT | 437-CSI-241 | | |
| | | 2882 106TH STREET DES MOINES IA 50322 | 13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4000 ae-rm.com Anderson Engineering of Minnesota, LLC Proj # 17639 | Print Name: <u>Andrew T. Weber</u> Signature: <u>Andrew T. Weber</u> Date: <u>01/22/2025</u> License # <u>62718</u> | | Approved: | | Location FARGO, ND | Building Number 9 | Drawing Number | |
| | | Revisions: | Date: | | | | FULLY SPRINKLERED | Issue Date 01/22/2025 | Checked ATW | Drawn JPC | ED-101 |
| | | | | | | | | | | | |

ELECTRICAL DEMOLITION
GENERAL NOTES

1. DEMOLITION DRAWINGS ARE BASED ON EXISTING AVAILABLE DRAWINGS AND FIELD OBSERVATION. ELECTRICAL CONTRACTORS SHALL FIELD VERIFY THE SITE AND INCLUDE ALL REQUIRED DEMOLITION IN THE BID.
2. ALL REQUIRED DEMOLITION MAY NOT BE INDICATED. IT IS THE INTENT OF THESE DOCUMENTS THAT ALL MECHANICAL AND ELECTRICAL SYSTEMS (NOT TO BE REUSED OR EXTENDED) BE REMOVED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
3. REMOVE ALL ELECTRICAL CONNECTIONS, WIRING, AND CONDUIT SERVING ALL EQUIPMENT TO BE REMOVED.
4. MAINTAIN FIRE RATINGS OF WALLS AND FLOORS AFFECTED BY DEMOLITION.
5. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS ON FLOOR CUTTING AND CEILING REMOVAL. CONTRACTOR SHALL COORDINATE WORK TO BE CONSISTENT WITH SCOPE OF GENERAL CONTRACTOR'S DEMOLITION.

ELECTRICAL DEMOLITION PLAN KEYED
NOTES

- ED1 NO ELECTRICAL DEMOLITION SCOPE IN THIS AREA.
- ED2 REMOVE ALL LIGHT FIXTURES, LIGHTING CONTROLS, EMERGENCY LIGHTING, RECEPTACLES, AND ELECTRICAL EQUIPMENT IN THIS AREA UNLESS NOTED OTHERWISE OR NECESSARY FOR THE OPERATION OF DEVICES OUTSIDE THE SCOPE OF REMODELING.
- ED3 DISCONNECT AND STORE FOR RELOCATION IN NEW LOCATION AFTER ARCHITECTURAL WORK HAS BEEN COMPLETED. SEE NEW WORK PLAN FOR NEW LOCATIONS.
- NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN



1 LOWER LEVEL - POWER DEMOLITION PLAN
1/8" = 1'-0"



BID DOCUMENT SUBMISSION

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| LIGHTING CONTROL - SEQUENCE OF OPERATION | | | |
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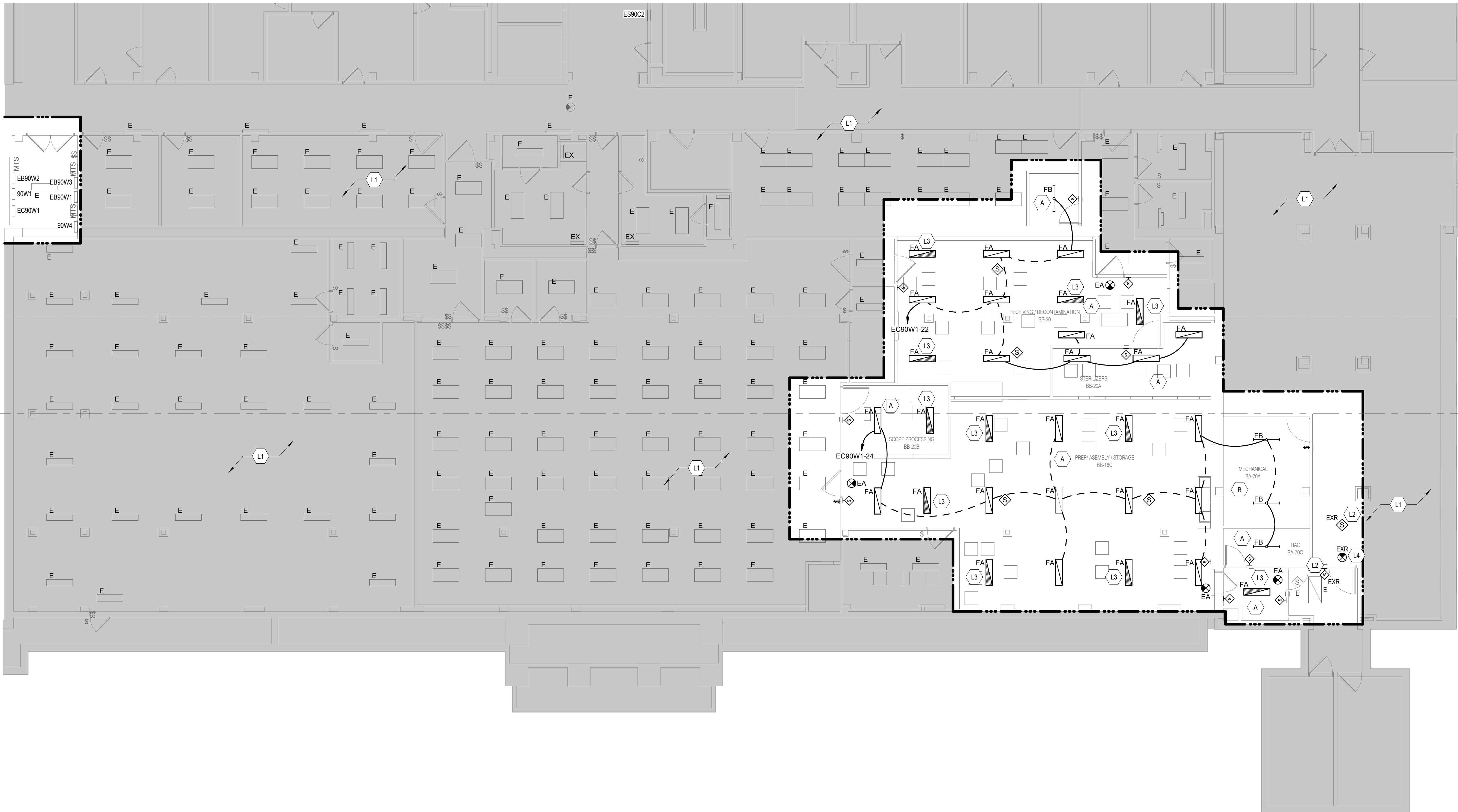
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- ALL WALL-MOUNTED FIXTURES SHALL HAVE THEIR EXACT ROUGH-IN LOCATION DETERMINED BY THE DESIGN TEAM PRIOR TO ROUGH-IN.
- THE ELECTRICAL CONTRACTOR SHALL EXTEND AN "UNSWITCHED" HOT CONDUCTOR FROM THE NEAREST LIFE SAFETY CIRCUIT TO EXIT SIGNS REQUIRED FOR EMERGENCY EGRESS OPERATION.
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- UNLESS NOTED OTHERWISE BY DESIGNATED LIGHTING CONTROL ZONES, SWITCHES SHOWN SHALL CONTROL ALL FIXTURES IN THE ROOM.
- REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS FOR THE SPECIFIC DEVICE ROUGH-IN AND PLACEMENT. ANY DEVIATIONS FROM THE ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS SHALL BE REVIEWED AND APPROVED BY THE DESIGN TEAM PRIOR TO ROUGH-IN.

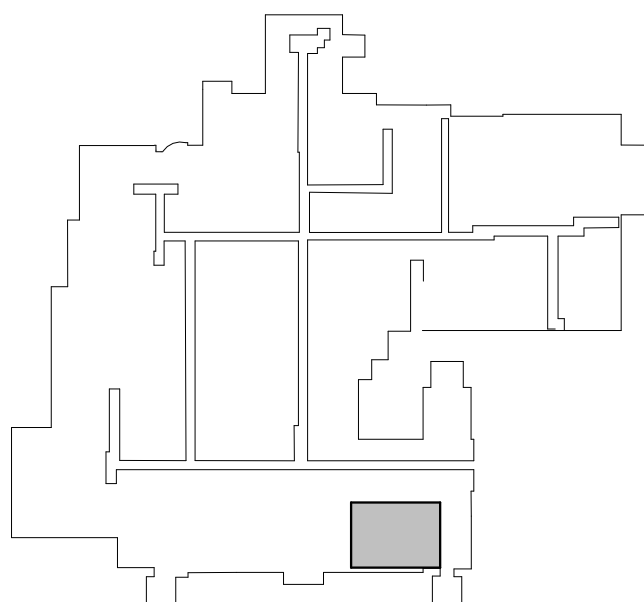
LIGHTING PLAN KEYED NOTES

- L1 NO LIGHTING SCOPE IN THIS AREA.
- L2 REINSTALL AFTER ARCHITECTURAL WORK HAS BEEN COMPLETED. RECONNECT AND RESTORE TO ORIGINAL FUNCTIONALITY.
- L3 EXTEND EXISTING 120V LIFE SAFETY BRANCH CIRCUIT FROM PANEL ES90C2 TO NEW LIGHT FIXTURES IN THIS SPACE. PROVIDE UL924 DEVICES AS REQUIRED TO BE CONTROLLED WITH LIGHTING IN THE SPACE.

NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN



1 LOWER LEVEL - LIGHTING PLAN
1/8" = 1'-0"



KEY PLAN
LOWER LEVEL

BID DOCUMENT SUBMISSION

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ELECTRICAL GENERAL NOTES

1. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIVE MUST BE GROUNDED BY USE OF A PROPERLY SIZED GROUNDING CONDUCTOR. MECHANICAL AND ELECTRICAL BOND OF THE METALLIC RACEWAY SYSTEM SHALL BE MAINTAINED. GROUND AND BOND PER NEC ARTICLE 250.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE TAMPER RESISTANCE RECEPTABLES PER NEC 406.12.
3. ALL DISCONNECTS ON MECHANICAL EQUIPMENT SHALL BE MOUNTED ON STRUCTURE TO ALLOW REMOVAL OF THE EQUIPMENT FOR MAINTENANCE WITH A MINIMUM OF WIRING WORK. VERRY NEAR CLEARANCE REQUIREMENTS ARE MET PRIOR TO ROUGH-IN.
4. MAINTAIN SERVICE CLEARANCE AROUND MECHANICAL & ELECTRICAL EQUIPMENT. DO NOT ROUTE PIPING OR CONDUIT IN CLEARANCE SPACE.
5. SURFACE RACEWAY SHALL NOT BE USED IN ANY FINISHED AREAS WITH PRIOR APPROVAL FROM THE DESIGN TEAM.
6. ALL RECEPTACLE CIRCUITS SHALL HAVE DEDICATED NEUTRAL.
7. INSTALL DEVICES SUCH THAT NO TWO DEVICES ON OPPOSITE SIDES OF THE SAME WALL ARE WITHIN 24" OF EACH OTHER.
8. PRIOR TO ROUGH-IN, COORDINATE ALL WALL DEVICES WITH FINAL CASEWORK, ELEVATIONS AND OTHER TRADES. CONFLICTS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE DESIGN TEAM.
9. ALL FLOOR BOXES SHALL HAVE THEIR EXACT ROUGH-IN LOCATIONS DETERMINED BY THE DESIGN TEAM THROUGH DIMENSIONED DRAWINGS APPROVED BY THE OWNER PRIOR TO ROUGH-IN. LOCATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY.
10. REFER TO TEST SHEETS FOR ADDITIONAL ROUGH-IN INFORMATION OF LOW VOLTAGE DEVICES.
11. REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS FOR THE SPECIFIC DEVICE ROUGH-IN AND PLACEMENT. ANY DEVIATIONS FROM THE ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS SHALL BE REVIEWED AND APPROVED BY THE DESIGN TEAM PRIOR TO ROUGH-IN.

ELECTRICAL PLAN KEYED NOTES

- | | |
|----|--|
| E1 | NO ELECTRICAL SCOPE IN THIS AREA. |
| E2 | COORDINATE INSTALLATION OF RECEPTACLE WITH EQUIPMENT ACCESS PLAN. COORDINATE WITH EQUIPMENT LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN. |
| E3 | EXTEND NEAREST 120V, NORMAL POWER CIRCUIT TO NEW DEVICE LOCATION |
| E4 | COORDINATE EXACT TV/MONITOR DEVICE LOCATIONS WITH OWNERS' DESIRED MOUNTING HEIGHT PRIOR TO ROUGH-IN. COORDINATE WITH OWNERS PROVIDED TV/MONITOR AND MOUNTING SYSTEM SO THAT DEVICES AND CABLES ARE NEAT AND CONCEALED. |
| E5 | PROVIDE (2) 3/4" CONDUIT ABOVE CEILING FROM WASHERS/DISINFECTANT TO DOSING STATION LOCATION. |
| E6 | COORDINATE EXACT INSTALLATION LOCATION OF WEATHERPROOF SWITCH FOR CONVEYOR DISCONNECT. |
| E7 | PROVIDE DUAL CHANNEL, TYPE-POWER POLE EQUAL TO LEGRAND 240T/4-TYPE-POWER POLE SHALL HAVE DEDICATED COMPARTMENTS FOR CABLES AND DATA CABLEING AND POWER CONDUCTORS. FINISH SHALL BE SELECTED AT END OF SUBMITTAL. PROVIDE (2) HOSPITAL, GRADE DUPLEX RECEPTABLES (RED) AND CM2 MODULES) FOR DATA TERMINATION. COORDINATE EXACT INSTALLATION LOCATION WITH FURNITURE LOCATION PRIOR TO ROUGH-IN. |

NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN



1 LOWER LEVEL - POWER PLANT

$$1/8^{\circ} = 1^{\circ}-0$$
[illegible]

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| # | EQUIPMENT NAME | QTY | VOLTAGE/PHASE | MCA | CONNECTION TYP | NOTE |
|-------|---|-----|---------------|-----|----------------|--|
| S0042 | AMSCO 400 MEDIUM STEAM STERILIZER | 2 | 208/3 | 8A | N/A | |
| S0045 | AMSCO 400 SMALL STEAM STERILIZER | 2 | 120/1 | 3A | N/A | |
| S0091 | RACK RETURN | 1 | 120/1 | 15A | NEMA 5-15 | |
| S0940 | AMSCO WASHER/DISINFECTOR | 2 | 120/1 | N/A | N/A | |
| S0941 | WASHER/DISINFECTOR-LOAD UNLOAD CONVEYOR | 2 | 120/1 | 15A | 1/2" | |
| S0942 | WASHER/DISINFECTOR CHEMICAL HOLDERS | 2 | | | | 3" CONDUIT FROM WASHER/DISINFECTOR TO CHEMICAL HOLDERS |
| S1905 | STERIS AUTOMATIC PASS-THROUGH WINDOW | 2 | 120/1 | 15A | 1/2" NPT | |
| S2615 | TROPHON | 1 | 120/1 | 15A | N/A | |
| S2627 | ADVANTAGE PLUS PASS-THRU ENDOSCOPE REPROCESSING | 2 | 120/1 | 15A | N/A | |
| S2635 | INNOWAVE PCF SCONIC IRRIGATOR 20 LUMEN CAPACITY | 2 | 208/3 | 24A | N/A | |
| S2636 | INNOWAVE ECO ULTRASONIC CLEANER 2.6 GAL | 1 | 208/3 | 24A | HARD WIRED | |
| S9610 | PREP-PACK TABLE | 5 | 120/1 | 15A | N/A | |

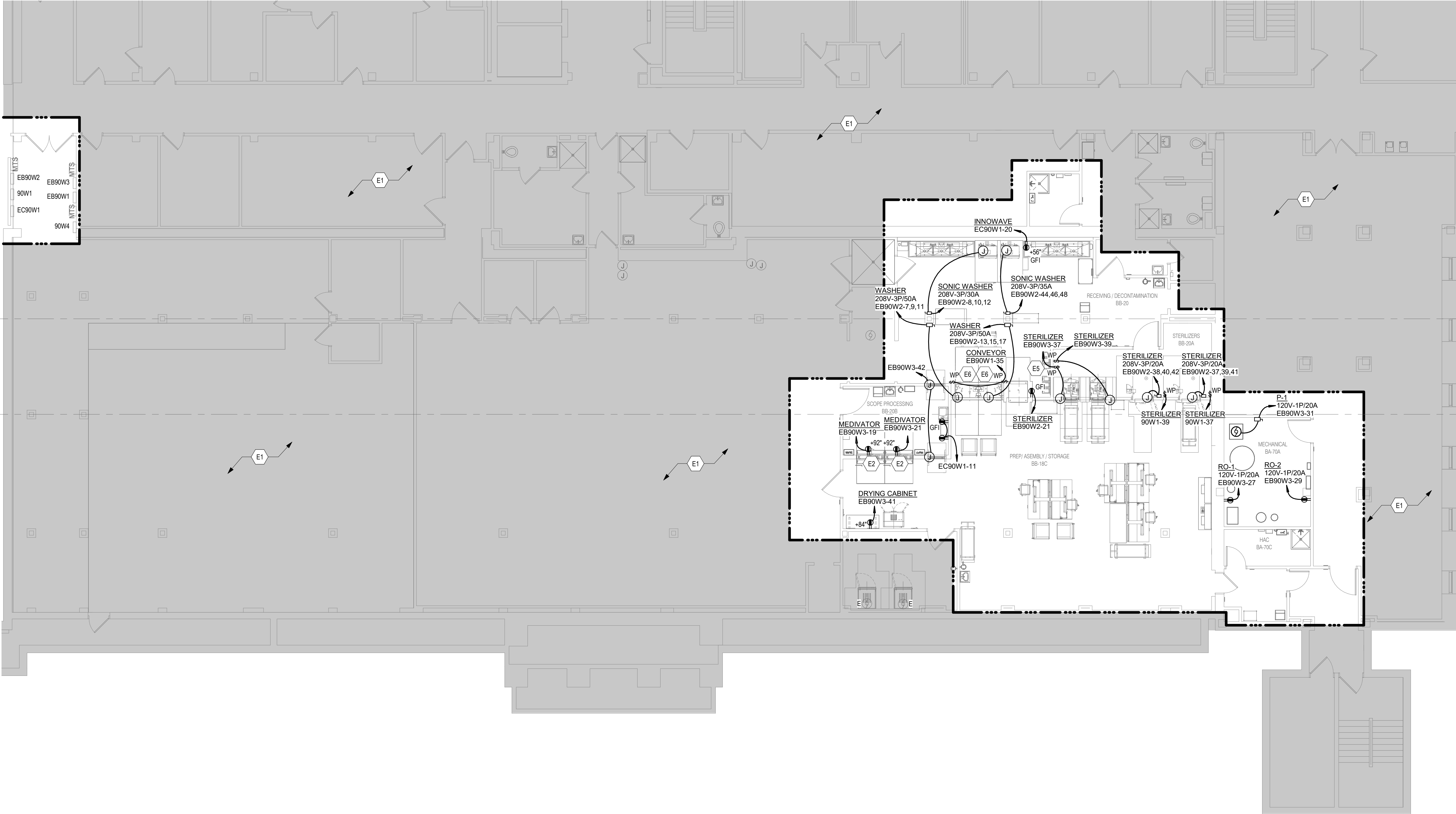
ELECTRICAL GENERAL NOTES

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2. ELECTRICAL CONTRACTOR SHALL PROVIDE TAMPER RESISTANCE RECEPTACLES PER NEC 408.12.
3. ALL DISCONNECTS ON MECHANICAL EQUIPMENT SHALL BE MOUNTED ON STRUCTURE TO ALLOW REMOVAL OF THE EQUIPMENT FOR MAINTENANCE WITH A MINIMUM OF WIRING WORK. VERIFY NEC CLEARANCE REQUIREMENTS ARE MET PRIOR TO ROUGH-IN.
4. MAINTAIN SERVICE CLEARANCE AROUND MECHANICAL & ELECTRICAL EQUIPMENT. DO NOT ROUTE PIPING OR CONDUIT IN CLEARANCE SPACE.
5. SURFACE RACEWAY SHALL NOT BE USED IN ANY FINISHED AREAS WITH PRIOR APPROVAL FROM THE DESIGN TEAM.
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ELECTRICAL PLAN KEYED NOTES

- E1 NO ELECTRICAL SCOPE IN THIS AREA.
- E2 COORDINATE INSTALLATION OF RECEPTACLE WITH EQUIPMENT ACCESS PANEL. COORDINATE WITH EQUIPMENT LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN.
- E3 EXTEND NEAREST 120V, NORMAL POWER CIRCUIT TO NEW DEVICE LOCATION.
- E4 COORDINATE EXACT TV/MONITOR DEVICE LOCATIONS WITH OWNER'S DESIRED MOUNTING HEIGHT PRIOR TO ROUGH-IN. COORDINATE WITH OWNER PROVIDED TV/MONITOR AND MOUNTING SYSTEM SO THAT DEVICES AND CABLES ARE NEAT AND CONCEALED.
- E5 PROVIDE (2) 3-INCH CONDUIT ABOVE CEILING FROM WASHER/DISINFECTOR TO DOSING STATION LOCATION.
- E6 COORDINATE EXACT INSTALLATION LOCATION OF WEATHERPROOF SWITCH FOR CONVEYOR DISCONNECT.
- E7 PROVIDE DUAL CHANNEL TELE-POWER POLE EQUAL TO LEGRAND 24DTP-4. TELE-POWER POLE SHALL HAVE DEDICATED COMPARTMENTS FOR ROUTING DATA CABLES AND POWER CONDUCTORS. FINISH SHALL BE SELECTED AT TIME OF SUBMITTAL. PROVIDE (2) HOSPITAL GRADE DUPLEX RECEPTACLES (RED AND CH2 MODULE(S) FOR DATA TERMINATION. COORDINATE EXACT INSTALLATION LOCATION WITH FURNITURE LOCATION PRIOR TO ROUGH-IN.

NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN



1 LOWER LEVEL - EQUIPMENT POWER PLAN
1/8" = 1'-0"

BID DOCUMENT SUBMISSION

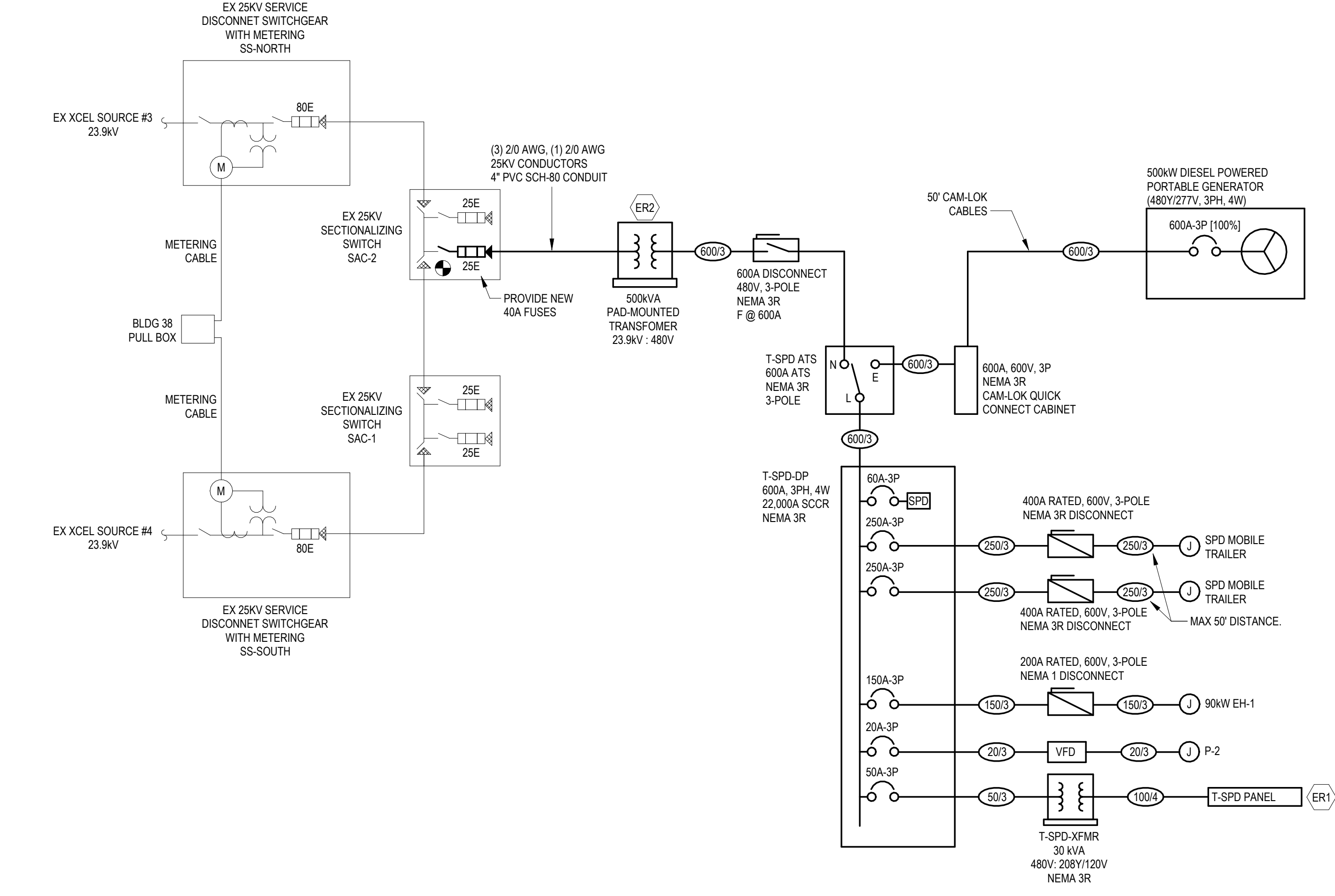
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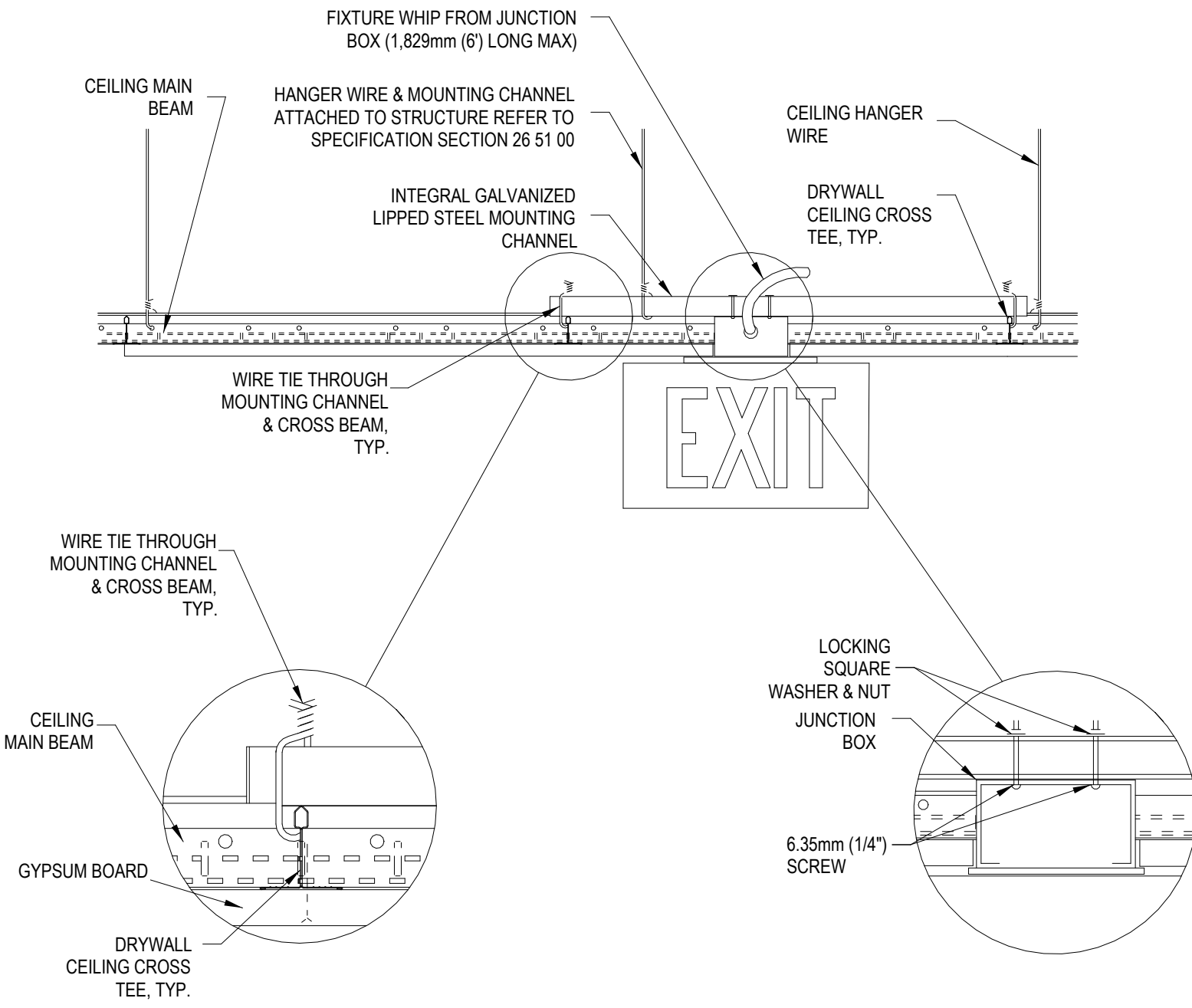
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| | PHASE | NEUTRAL | GROUND | | | |
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| 2003 | (3) #12 AWG | - | #12 AWG | 1/2" | 3/4" | 1 |
| 2503 | (3) #10 AWG | - | #10 AWG | 1/2" | 3/4" | 1 |
| 3003 | (3) #10 AWG | - | #10 AWG | 1/2" | 3/4" | 1 |
| 3503 | (3) #8 AWG | - | #10 AWG | 3/4" | 1" | 1 |
| 4003 | (3) #8 AWG | - | #10 AWG | 3/4" | 1" | 1 |
| 4503 | (3) #6 AWG | - | #10 AWG | 1" | 1" | 1 |
| 5003 | (3) #6 AWG | - | #10 AWG | 1" | 1" | 1 |
| 6003 | (3) #4 AWG | - | #10 AWG | 1-1/4" | 1-1/4" | 1 |
| 7003 | (3) #4 AWG | - | #8 AWG | 1-1/4" | 1-1/4" | 1 |
| 8003 | (3) #3 AWG | - | #8 AWG | 1-1/4" | 1-1/4" | 1 |
| 9003 | (3) #2 AWG | - | #8 AWG | 1-1/4" | 1-1/4" | 1 |
| 10003 | (3) #2 AWG | - | #8 AWG | 1-1/4" | 1-1/4" | 1 |
| 11003 | (3) #2 AWG | - | #8 AWG | 1-1/4" | 1-1/2" | 1 |
| 12503 | (3) #1 AWG | - | #6 AWG | 1-1/2" | 2" | 1 |
| 15003 | (3) #10 AWG | - | #6 AWG | 2" | 2" | 1 |
| 17503 | (3) 2/0 AWG | - | #6 AWG | 2" | 2" | 1 |
| 20003 | (3) 3/0 AWG | - | #6 AWG | 2" | 2-1/2" | 1 |
| 22503 | (3) 4/0 AWG | - | #4 AWG | 2-1/2" | 2-1/2" | 1 |
| 25003 | (3) 250 MCM | - | #4 AWG | 2-1/2" | 3" | 1 |
| 30003 | (3) 350 MCM | - | #4 AWG | 3" | 3" | 1 |
| 35003 | (3) 500 MCM | - | #3 AWG | 3" | 3-1/2" | 1 |
| 40003 | (3) 3/0 AWG | - | #3 AWG | 2" | 2-1/2" | 2 |
| 45003 | (3) 4/0 AWG | - | #2 AWG | 2-1/2" | 2-1/2" | 2 |
| 50003 | (3) 250 MCM | - | #2 AWG | 2-1/2" | 3" | 2 |
| 60003 | (3) 350 MCM | - | #1 AWG | 3" | 3" | 2 |

COPPER CONDUCTOR AND CONDUIT SIZING CHART

| | CONDUCTORS (THWN-2) | | | CONDUIT | SCH 80 | PARALLEL RUNS |
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| | PHASE | NEUTRAL | GROUND | | | |
| 1504 | (3) #12 AWG | #12 AWG | #12 AWG | 1/2" | 3/4" | 1 |
| 2004 | (3) #12 AWG | #12 AWG | #12 AWG | 1/2" | 3/4" | 1 |
| 2504 | (3) #10 AWG | #10 AWG | #10 AWG | 1/2" | 3/4" | 1 |
| 3004 | (3) #10 AWG | #10 AWG | #10 AWG | 1/2" | 3/4" | 1 |
| 3504 | (3) #8 AWG | #8 AWG | #10 AWG | 3/4" | 1" | 1 |
| 4004 | (3) #8 AWG | #8 AWG | #10 AWG | 3/4" | 1" | 1 |
| 4504 | (3) #6 AWG | #6 AWG | #10 AWG | 1" | 1" | 1 |
| 5004 | (3) #6 AWG | #6 AWG | #10 AWG | 1" | 1" | 1 |
| 6004 | (3) #4 AWG | #4 AWG | #10 AWG | 1-1/4" | 1-1/4" | 1 |
| 7004 | (3) #4 AWG | #4 AWG | #8 AWG | 1-1/4" | 1-1/4" | 1 |
| 8004 | (3) #3 AWG | #3 AWG | #8 AWG | 1-1/4" | 1-1/4" | 1 |
| 9004 | (3) #2 AWG | #2 AWG | #8 AWG | 1-1/4" | 1-1/4" | 1 |
| 10004 | (3) #2 AWG | #2 AWG | #8 AWG | 1-1/4" | 1-1/4" | 1 |
| 11004 | (3) #2 AWG | #2 AWG | #6 AWG | 1-1/4" | 1-1/2" | 1 |
| 12504 | (3) #1 AWG | #1 AWG | #6 AWG | 1-1/2" | 2" | 1 |
| 15004 | (3) #10 AWG | #10 AWG | #6 AWG | 2" | 2" | 1 |
| 17504 | (3) 2/0 AWG | #20 AWG | #6 AWG | 2" | 2" | 1 |
| 20004 | (3) 3/0 AWG | #3/0 AWG | #6 AWG | 2" | 2-1/2" | 1 |
| 22504 | (3) 4/0 AWG | #4/0 AWG | #4 AWG | 2-1/2" | 2-1/2" | 1 |
| 25004 | (3) 250 MCM | #250 MCM | #4 AWG | 2-1/2" | 3" | 1 |
| 30004 | (3) 350 MCM | #350 MCM | #4 AWG | 3" | 3" | 1 |
| 35004 | (3) 500 MCM | #500 MCM | #3 AWG | 3" | 3-1/2" | 1 |
| 40004 | (3) 3/0 AWG | #3/0 AWG | #3 AWG | 2" | 2-1/2" | 2 |
| 45004 | (3) 4/0 AWG | #4/0 AWG | #2 AWG | 2-1/2" | 2-1/2" | 2 |
| 50004 | (3) 250 MCM | #250 MCM | #2 AWG | 2-1/2" | 3" | 2 |
| 60004 | (3) 350 MCM | #350 MCM | #1 AWG | 3" | 3" | 2 |



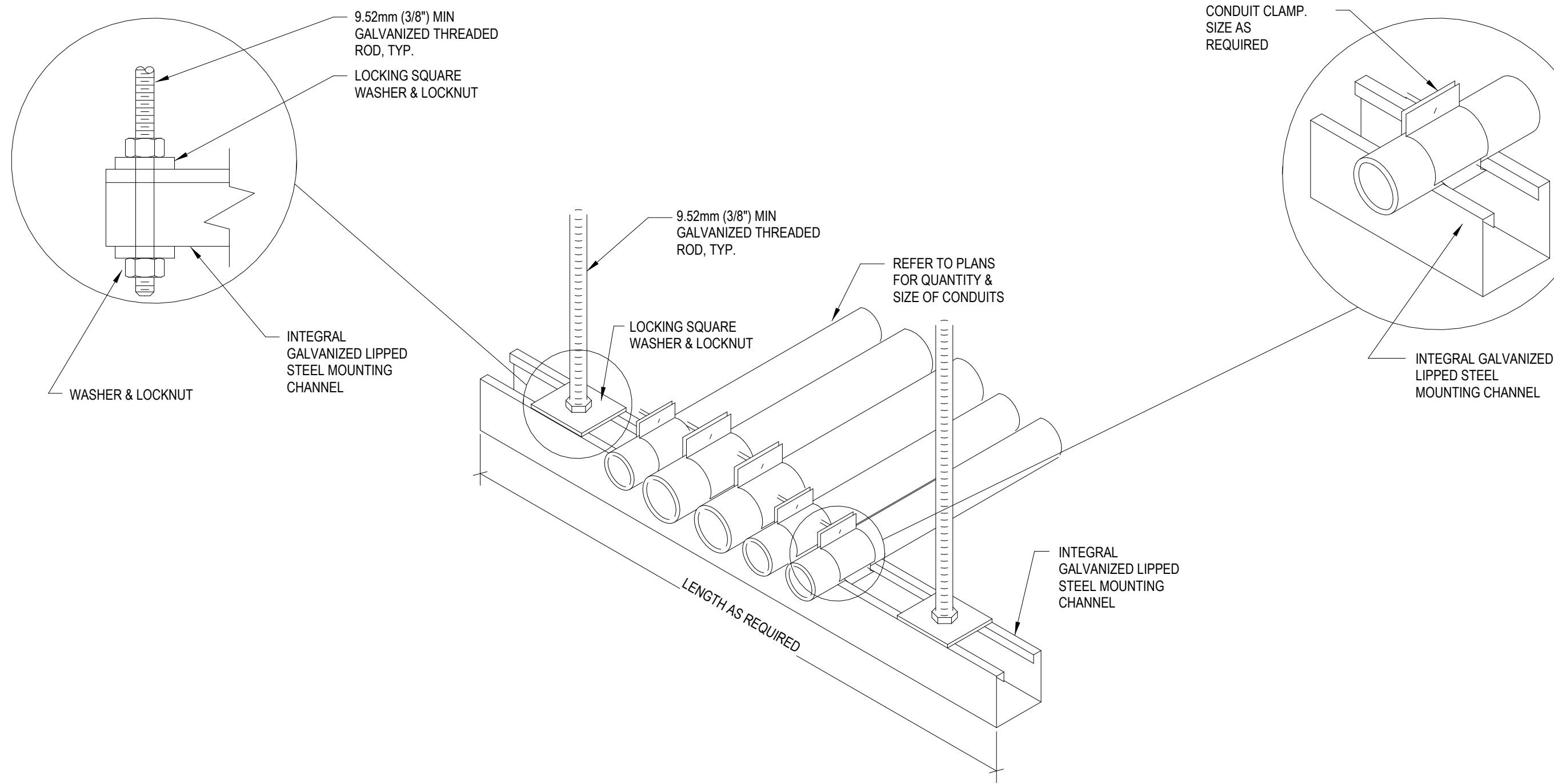
1 ONE-LINE DIAGRAM - MOBILE SPD TRAILER



GENERAL NOTE:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.

2 EXIT SIGN MOUNTING DETAIL - GYPBOARD CEILING

12" = 1'-0"



GENERAL NOTES:
1. INTEGRAL GALVANIZED LIPPED STEEL MOUNTING CHANNEL LONGER THAN 915mm (36") SHALL BE INSTALLED WITH A CENTER SUPPORT ROD. SUPPORT RODS SHALL NOT BE GREATER THAN 457mm (18") APART.
2. FASTEN THREADED ROD TO STRUCTURE BY APPROVED METHOD PER SPECIFICATION 26 05 33, RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS. FIELD VERIFY EXACT CONDITIONS.
3. FOR TRAPEZE INSTALLATIONS IN SEISMIC AREAS REFER TO SPECIFICATION SECTION 13 05 41, SEISMIC RESTRAINT REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS.

3 CONDUIT TRAPEZE MOUNTING DETAIL

12" = 1'-0"

ELECTRICAL RISER GENERAL NOTES

1. REFER TO [SITE PLAN CXXX AND] ELECTRICAL PLAN [EXXX] FOR ADDITIONAL REQUIREMENTS AND RESPONSIBILITIES.
2. ELECTRICAL POWER OUTAGES, IF REQUIRED, SHOULD BE STRATEGICALLY MINIMIZED AND SCHEDULED CLOSELY WITH OWNER. CHANGEOVERS COULD BE REQUIRED TO OCCUR AT ANY HOUR.
3. MAINTAIN ALL SERVICE CLEARANCES REQUIRED BY THE NEC.
4. INSTALL ALL CONDUCTORS AS PER MANUFACTURER'S RECOMMENDATIONS.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUCTOR LENGTHS AND BREAKERS MANUFACTURER INFORMATION TO THE DESIGN TEAM FOR SELECTIVE COORDINATION PER NEC 700.28. NECESSARY DEVICES SHALL HAVE THE ABILITY TO BE SELECTIVELY COORDINATED.
6. ELECTRICAL SERVICE LAYOUT MAY VARY FROM WHAT IS SHOWN ON PLANS BASED ON MANUFACTURER PROVIDING THE SYSTEM. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FITTING SYSTEM PROVIDED INTO SPACE SHOWN ON PLANS.

ELECTRICAL RISER KEYED NOTES

- (ER1) REFER TO PANEL SCHEDULE FOR ADDITIONAL DETAILS.
- PROVIDE TEMPORARY 500KVA PAD-MOUNTED TRANSFORMER WITH 23.9KV PRIMARY AND 480V SECONDARY. TRANSFORMER SHALL HAVE PRIMARY SURGE ARRESTORS. PROVIDE RENTAL FOR DURATION OF CONSTRUCTION. COORDINATE ORDERING WITH GENERAL CONTRACTOR AND ARRIVAL OF MOBILE SPD TRAILER.
- NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

BID DOCUMENT SUBMISSION

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PANEL EC90W1

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| MOUNTING: Surface | MAINS TYPE: MLO |
| ENCLOSURE: Type 1 | MAINS RATING: 225 A |
| FED FROM: @ | MCB RATING: NONE |
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| AVAILABLE Isc: | SCCR: 22,000 A |

NOTES: EXISTING EATON PANELBOARD TYPE PRL1A

| CKT | LOAD DESCRIPTION | TYPE | TRIP | P | A | B | C | P | TRIP | TYPE | LOAD DESCRIPTION | CKT | |
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| 1 | RECEPT BB-19 | E | 20 A | 1 | 720 | 0 | | 1 | 20 A | E | SPD RECEPTS - BB-17 | 2 | |
| 3 | SPD RECEPTS - BB-17 | E | 20 A | 1 | | 0 | 0 | 1 | 20 A | E | RECEPTS B-12,16a,16b, 30,32 | 4 | |
| 5 | SPD RECEPTS - BB-20 | E | 20 A | 1 | | | 0 | 0 | 1 | 20 A | E | SPD RECEPTS - 24D | 6 |
| 7 | SPD RECEPTS - BB-20 | E | 20 A | 1 | 0 | 0 | | 3 | 20 A | E | RECEPTS - CLEAN STORAGE BB-15 | 8 | |
| 9 | SPD ETO PANEL - BB-17 | E | 20 A | 1 | | 0 | 0 | -- | -- | -- | | 10 | |
| 11 | RECEPT BB-20B | E | 20 A | 1 | | | 720 | 0 | -- | -- | | 12 | |
| 13 | EMERGENCY LIGHT - BB-62 | E | 20 A | 1 | 0 | 0 | | 1 | 20 A | E | TEMP CONTROL PANEL | 14 | |
| 15 | PHONE BOOTH HEALING GARDENS | E | 20 A | 1 | | 0 | 540 | 1 | 20 A | E | RECEPTS BB-19C | 16 | |
| 17 | RECEPTS BB-20 | E | 20 A | 1 | | | 540 | 1 | 20 A | E | BB-20 ABOVE THE SINKS | 18 | |
| 19 | FA NAC PANEL | E | 20 A | 1 | 0 | 1200 | | 1 | 20 A | E | INNOWAVE | 20 | |
| 21 | RO - BA-70A | E | 20 A | 1 | | 150 | 0 | 2 | 20 A | E/G | SPARE | 22 | |
| 23 | BB-20 ABOVE SINKS | E | 20 A | 1 | | | 900 | 0 | -- | -- | | 24 | |
| 25 | POWER POLE BB-18C | E | 20 A | 1 | 500 | 0 | | 1 | 20 A | E | RECEPTS BB-34 | 26 | |
| 27 | POWER POLE BB-18C | E | 20 A | 1 | | 500 | 0 | 1 | 20 A | E | RECEPTS BB-34 | 28 | |
| 29 | RECEPTS BA-70C | E | 20 A | 1 | | | 360 | 0 | 1 | 20 A | E | RECEPTS BB-34 | 30 |
| Total Load: | | | | | 2420.00 VA | 1220.00 VA | 3600.00 VA | | | | | | |
| Total Amps: | | | | | 21.71 | 10.17 | 31.54 | | | | | | |

| LOAD CLASSIFICATION | CONNECTED LOAD | DEMAND FACTOR | ESTIMATED DEMAND | TOTALS* |
|---------------------|----------------|---------------|------------------|----------|
| Power | 1 kVA | 100.00% | 1 kVA | 7.24 kVA |
| Receptacle | 6.24 kVA | 100.00% | 6.24 kVA | 7.24 kVA |
| | | | | 20.10 A |
| | | | | 20.1 A |

*TOTAL DEMAND CALC'S SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCONCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL

CIRCUIT KEY NOTES: A = ARC FAULT E=EXISTING G=GI H=HANDLE LOAD ST=SHUNT TRIP

| |
|-------------------------------|
| Project Number 437-CSI-241 |
| Building Number 9 |
| Drawing Number E-601 |

A
B
C
D
E

1/20/2025 12:23:50 PM

T

Autosave Doc:1/19/24/226.05 - VA-Fargo- ND-SFS Renovation#ET12, 1/19/24/226.05 - VA-Fargo- ND-SFS Renovation, C-rt

NAME

10'-0"

LEVEL NAME

HEIGHT ABOVE PROJECT 0'-0"

KEYNOTE: INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL.

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

1

VIEW NAME

1/8" = 1'-0"

PLAN OR DETAIL SCALE

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

DETAIL REFERRED TO BY SECTION CUT

SHEET DETAIL IS LOCATED ON

1

2

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
NEW
EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
NEW UNDER FLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
EXISTING
EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
EXISTING UNDER FLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

FIRE / SMOKE BARRIER DESIGNATIONS

THE LINE TYPES SHOWN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY RATINGS WITH THE LATEST SET OF ARCHITECTURAL PLANS AND FURNISH ALL MATERIALS REQUIRED TO COMPLY WITH THOSE RATINGS WHETHER SHOWN OR NOT.

ALL FLOOR, FLOOR CEILING, AND ROOF CEILING ASSEMBLIES SHALL BE DESIGNATED AS 2 HOUR FIRE/SMOKE BARRIER(S), UNLESS NOTED OTHERWISE ON THE PLANS. RATINGS WERE ACQUIRED FROM THE ARCHITECTURAL PLANS DATED 06/04/24.

2 HOUR FIRE BARRIER OR WALL

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

BUILDING CODE: IBC 2021 EDITION

FIRE CODE: NFPA 1 2024 EDITION

SPRINKLER INSTALLATION STANDARD: NFPA 13 2022

FIRE ALARM AND SIGNALING CODE: NFPA 72 2022

VA FIRE PROTECTION DESIGN MANUAL: 9TH EDITION, NOV. 2023

MECHANICAL CODE: IMC 2021 EDITION

ELECTRICAL CODE: NFPA 70 (NEC) 2023 EDITION

LIFE SAFETY CODE: NFPA 101 2024 EDITION

ENERGY CONSERVATION CODE: IECC 2021

HEALTH DEPARTMENT CODE: CURRENT EDITION

CONTRACTOR ABBREVIATION KEY

| ABBR: | DESCRIPTION: |
|--------|---------------------------------|
| C.C. | CIVIL CONTRACTOR |
| E.C. | ELECTRICAL CONTRACTOR |
| F.P.C. | FIRE PROTECTION CONTRACTOR |
| G.C. | GENERAL CONTRACTOR |
| M.C. | MECHANICAL CONTRACTOR |
| P.C. | PLUMBING CONTRACTOR |
| T.C. | TECHNOLOGY CONTRACTOR |
| T.C.C. | TEMPERATURE CONTROLS CONTRACTOR |

CONTACT PERSONS:

| DESCRIPTION: | PERSON: |
|---------------------|------------------------|
| PROJECT MANAGER | DELLAN LLEWELLYN, P.E. |
| AUTOMATIC SPRINKLER | LUCAS HEITZ |
| FIRE ALARM | ZACH ROSS |
| TECHNOLOGY | CRAIG BUCHHOLZ |

TECHNOLOGY VA SYMBOL LIST

| SYMBOL: | EQUIPMENT LIST ABBREVIATION: | DESCRIPTION: | NOTE: |
|-----------------------|------------------------------|---|-------|
| CS | N/A | CONTROLLED SECURITY SCHEME SCHEDULE IDENTIFIER | |
| M T | AC-CR1 | CARD ACCESS READER; LETTER INDICATES AS FOLLOWS: M = MOUNT C - CEILING D - DESK F - FLUSH H - HIDDEN M - MULLION P - PEDESTAL R - RACK S - SURFACE W - WALL T = TECHNOLOGY/TYPE RL - ROUGH-IN B - BARCODE F - ELEVATOR FLOOR CALL H - ELEVATOR HALL CALL M - MAG STRIP P = PROXIMITY S - SMART CARD T - TOKEN | |
| S | PA-S-C | FACILITY PAGING SPEAKER (CEILING) | |
| WAP | SC-IO-C | CEILING INFORMATION OUTLET, DATA COMMUNICATION ONLY; WIRELESS ACCESS POINT | 1. |
| TV | SC-IO-W | WALL INFORMATION OUTLET, TELEVISION | 1. |
| W | SC-WP-W | WALL INFORMATION OUTLET, WALL TELEPHONE | 1. |
| HD | SC-IO-W | WALL INFORMATION OUTLET, DATA COMMUNICATION ONLY | 1. |
| WIDTH X HEIGHT | | | |
| LADDER RACK | | | |
| CONDUIT | | | |
| CONDUIT DOWN | | | |
| CONDUIT UP OR UP/DOWN | | | |
| CONDUIT SLEEVE | | | |
| CONTINUATION | | | |

GENERAL NOTES:

- ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO THE TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS.
- ALL SYMBOLS AND ABBREVIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED ON THE SHEET INDEX. REFER TO THE GENERAL TECHNOLOGY NOTES FOR ADDITIONAL INFORMATION.
- ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYPE KEY FOR NEW, EXISTING TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL INFORMATION.
- REFER TO RISERS ON SHEET(S) T200.

TECHNOLOGY SYMBOL NOTES:

- "CF" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO INFORMATION OUTLET SCHEDULE ON T500 FOR ADDITIONAL INFORMATION.

TECHNOLOGY ABBREVIATION KEY

| ABBR: | DESCRIPTION: |
|-------|--------------------------------------|
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| BFC | BELOW FINISHED CEILING |
| C | CONDUIT |
| DE | DELAYED EGRESS |
| DPOT | DOUBLE POLE DOUBLE THROW |
| FOV | FIELD OF VIEW |
| J-BOX | JUNCTION BOX |
| POE | POWER OVER ETHERNET |
| PTZ | PAN TILT ZOOM |
| SIM | SIMILAR |
| TYP | TYPICAL |
| UON | UNLESS OTHERWISE NOTED |
| +# | MOUNTING HEIGHT ABOVE FINISHED FLOOR |
| EF-# | ENTRANCE FACILITY |
| MC-# | MAIN CROSS-CONNECT |
| TR-# | TELECOMMUNICATIONS ROOM |

SUGGESTED MATRIX OF RESPONSIBILITY

| ITEM: | SHOWN ON: | FURNISHED BY: | INSTALLED BY: | NOTES: |
|--|--------------|---------------|---------------|--------|
| TECHNOLOGY ROUGH-IN, REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS | T-SERIES | E.C. | E.C. | 3, 4. |
| CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS) | T-SERIES | E.C. | E.C. | |
| CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM) | N/A | T.C. | T.C. | 2, 4. |
| TELECOMMUNICATION SYSTEMS ROUGH-IN | T-SERIES | E.C. | E.C. | 1. |
| TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS | T-SERIES | T.C. | T.C. | |
| CABLE TRAY (INCLUDING WIRE BASKET TRAY) REFER TO SPECIFICATION SECTION 27 05 36 FOR DEFINITION | T-SERIES | T.C. | T.C. | 5. |
| GROUNDING LUGS ON TECHNOLOGY EQUIPMENT | T-SERIES | T.C. | E.C. | 6. |
| BONDING SYSTEM FOR TECHNOLOGY SYSTEM. REFER TO SPECIFICATION SECTION 27 05 36 FOR DEFINITION | T-SERIES | E.C. | E.C. | 7, 8. |
| CONNECTION OF TECHNOLOGY BONDING SYSTEM TO THE ELECTRICAL GROUND SYSTEM | T-SERIES | E.C. | E.C. | |
| LINE VOLTAGE POWER (+120V OR GREATER) | E-SERIES | E.C. | E.C. | |
| LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM) | N/A | T.C. | E.C. | 2, 4. |
| LINE VOLTAGE POWER FOR DOOR HARDWARE POWER SUPPLIES | ARCH SPEC | E.C. | E.C. | |
| LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS | T-SERIES | T.C. | T.C. | |
| CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY) | T-SERIES | T.C. | T.C. | 5. |
| TECHNOLOGY SERVICE ENTRANCE CONDUITS, HANDHOLES, AND MANHOLES | [E]T-SERIES | E.C. | E.C. | |
| FLOOR BOX (ROUGH-IN) | T & E SERIES | E.C. | E.C. | |

SUGGESTED MATRIX OF RESPONSIBILITY NOTES

- LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR ADDITIONAL INFORMATION.
- BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE MANUFACTURERS.
- INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
- ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.
- UNLESS TRADE RULES DICTATE OTHERWISE.
- FURNISHED AS PART OF THE EQUIPMENT WHEN POSSIBLE, OR FURNISHED TO THE E.C. FOR INSTALLATION IN THE FIELD.
- INCLUDES ALL CONDUCTORS, GROUND BARS, AND TERMINATIONS FOR THE COMPLETE BONDING SYSTEM REQUIRED BY THE SPECIFICATIONS.
- REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF PANELS AND SWITCHBOARDS SHOWN IN THE TECHNOLOGY BONDING RISER DIAGRAM AND TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.

TELECOM ROOM REFERENCES

| TELECOM ROOM | DETAIL / SHEET REFERENCE | FLOOR PLAN REFERENCE | ARCH ROOM NUMBER |
|----------------|--------------------------|----------------------|------------------|
| EXISTING TR-03 | 1/T200 | 1/T101 | BA-30 |
| EXISTING TR-06 | | 2/T001 | BD-02 |

TECHNOLOGY SHEET INDEX

| | |
|--------------|--|
| T000 | TECHNOLOGY COVERSHEET |
| T0101 | LOWER LEVEL DEMOLITION PLAN - TECHNOLOGY |
| T001 | SITE PLAN - TECHNOLOGY |
| T101 | LOWER LEVEL FLOOR PLAN - TECHNOLOGY |
| T200 | TECHNOLOGY ENLARGEMENT PLANS |
| T500 | TECHNOLOGY SCHEDULES |
| GRAND TOTAL: | 6 |

TECHNOLOGY GENERAL NOTES:

- ##### INDICATES TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS "EQUIPMENT LIST ABBREVIATION"
- REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.

TECHNOLOGY MOUNTING SUBSCRIPT KEY:

| |
|--|
| MOUNT AT +5' TO CENTERLINE ABOVE COUNTER OR BACKSPLASH |
| H MOUNT ORIENTED HORIZONTALLY |
| L MOUNT IN CASEWORK |
| M MOUNT IN MODULAR FURNITURE |
| S MOUNT IN SURFACE RACEWAY |

A SLASH IS USED BETWEEN TWO SUBSCRIPTS, E.G., A/H.

TECHNOLOGY INSTALLATION NOTES:

- CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
- BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
- VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL TELECOMMUNICATIONS INSTALLATION, ADJUST OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
- TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E914 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO DIVISION 7 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
- THE TECHNOLOGY CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF THE CEILINGS, CEILING TILES, AND CEILING GRID ASSOCIATED WITH THE AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
- ALL CABLE TRAY SIZES ARE AS DEFINED ON THE DRAWINGS. REFER TO SPECIFICATION SECTION 27 05 36 FOR APPROVED MANUFACTURERS AND INSTALLATION REQUIREMENTS.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- FLUSH MOUNT ALL TELECOMMUNICATION OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. OUTLETS MAY BE SURFACE MOUNTED TO BIDDING.
- MOUNT BACKBOXES FLUSH WITH WALL. ALL BACKBOX HEIGHTS ARE TO CENTERLINE DIMENSION, UNLESS OTHERWISE NOTED.
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Autosave Doc: 1/19/24/226.05 - VA Fargo- ND SPS Renovation/FET2, 1/19/24/226.05 - VA Fargo- ND SPS Renovation, C.rvt

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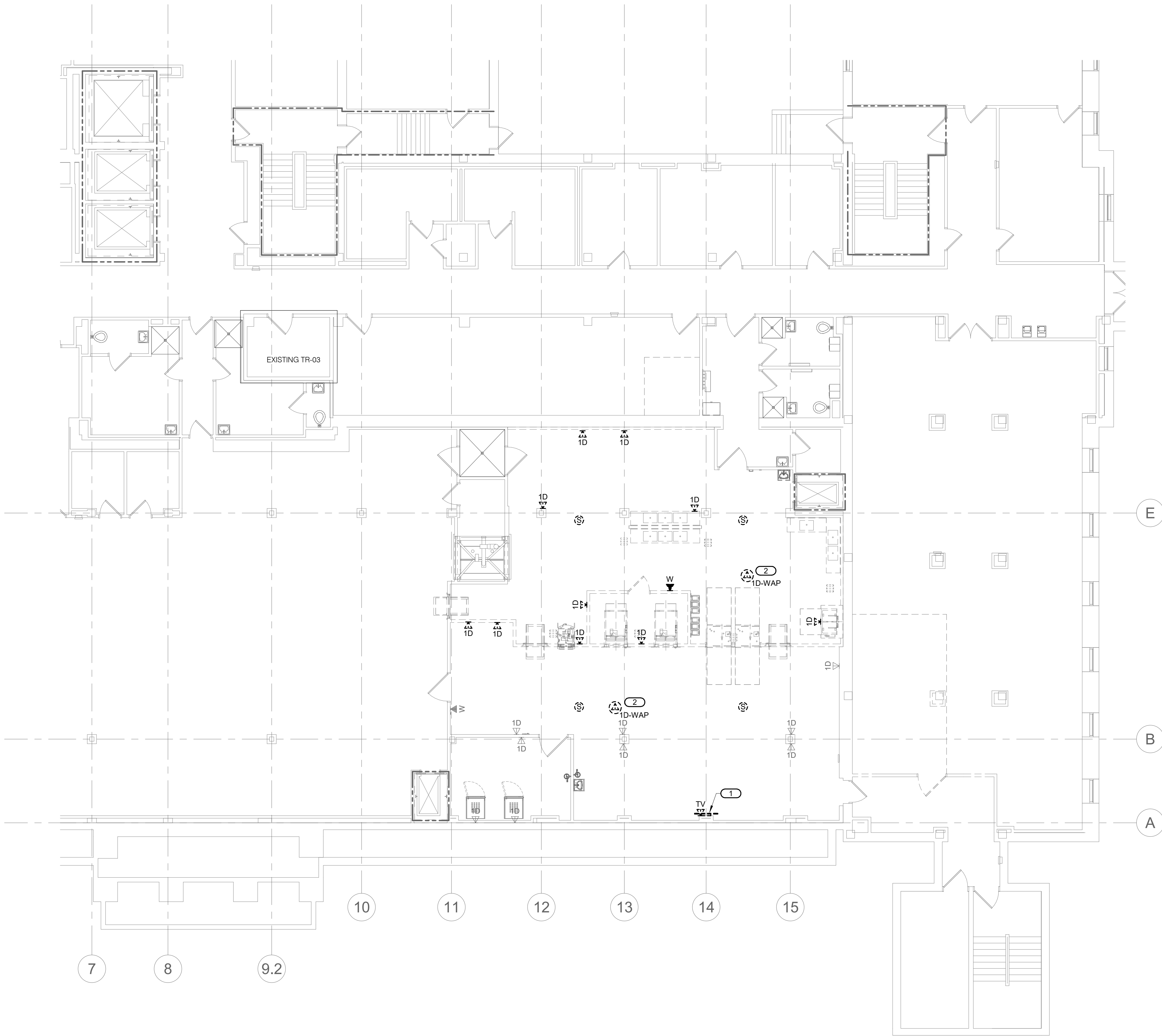
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- KEYNOTES: 2
1.

EXISTING MONITOR AND MOUNT TO BE REMOVED, PROTECTED, AND RELOCATED IN NEW CONSTRUCTION PHASE.
2.

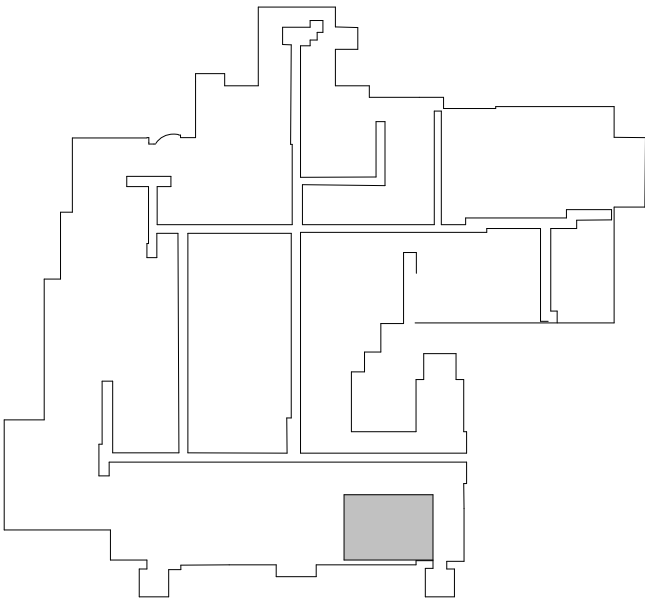
EXISTING WIRELESS ACCESS POINT TO BE REMOVED, PROTECTED, AND RELOCATED IN NEW CONSTRUCTION PHASE.



1

LOWER LEVEL DEMOLITION PLAN - TECHNOLOGY

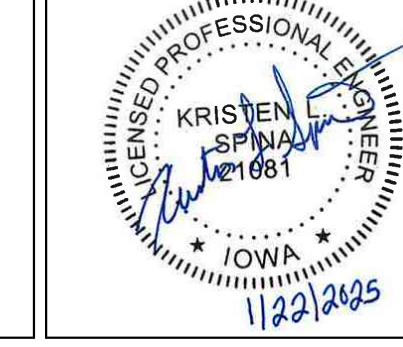
1/8" = 1'-0"

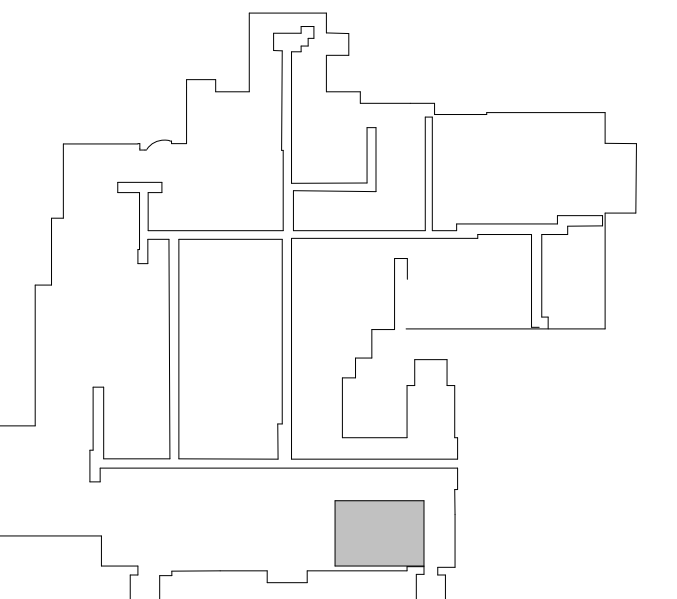


KEY PLAN
LOWER LEVEL

BID DOCUMENT SUBMISSION

| | | | | | | | | |
|--|--|--|--|---|--|---|---|--|
| <div>Revisions:</div> <div>Date:</div> | <div>CONSULTANT</div> <div>IMEG</div> <div>2882 106TH STREET DES MOINES IA 50322</div> | <div>DESIGNER OF RECORD</div> <div>ANDERSON</div> <div>13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4090 ae-mn.com Anderson Engineering of Minnesota, LLC Proj # 17639</div> | <div>STAMP</div> <div><div>KRISTEN SPINALE 1/22/2025</div></div> | <div>Office of Construction and Facilities Management</div> <div>VA U.S. Department of Veterans Affairs</div> | <div>Drawing Title</div> <div>LOWER LEVEL DEMOLITION PLAN - TECHNOLOGY</div> | <div>Phase</div> <div>BID DOCUMENTS</div> | <div>Project Title</div> <div>PERFORM SITE PREP FOR SPS EQUIPMENT</div> | <div>Project Number</div> <div>437-CSI-241</div> |
| | | | | | <div>Approved:</div> | <div>FULLY SPRINKLERED</div> | <div>Location</div> <div>FARGO, ND</div> | <div>Building Number</div> <div>9</div> |
| | | | | | | | <div>Issue Date</div> <div>1/15/2025</div> | <div>Drawing Number</div> <div>TD101</div> |
| | | | | | | | <div>Checked</div> <div>MARWIT</div> | <div>Drawn</div> <div>MATSTU</div> |

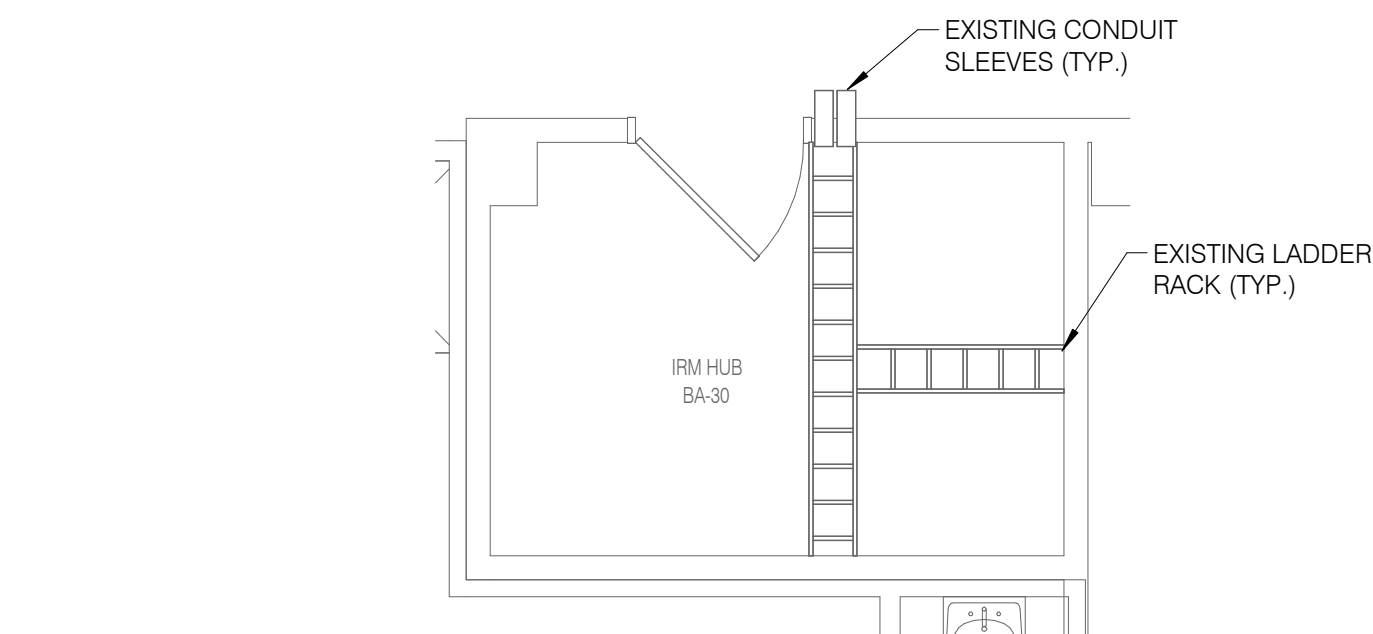




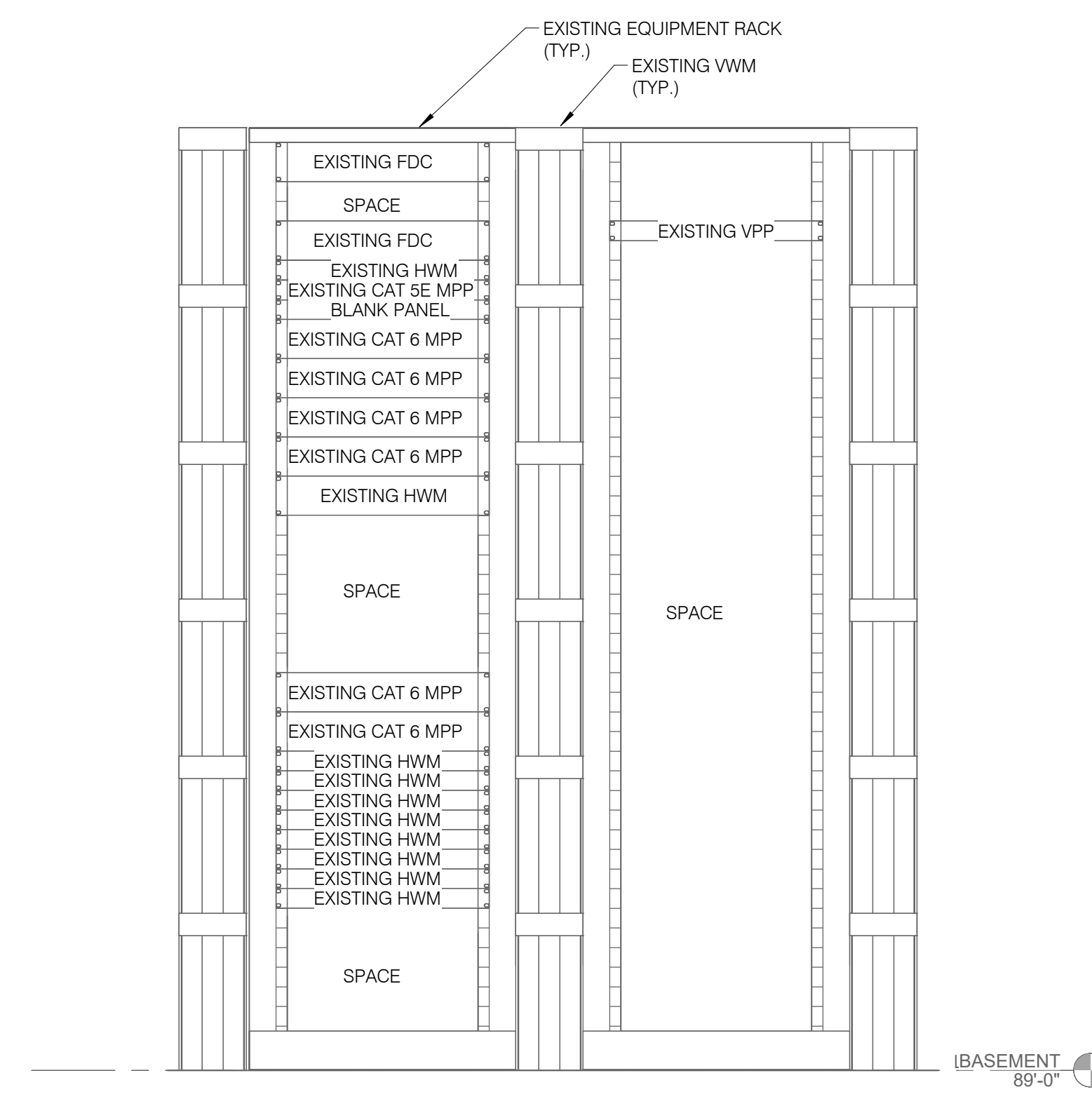
KEY PLAN
LOWER LEVEL

BID DOCUMENT SUBMISSION

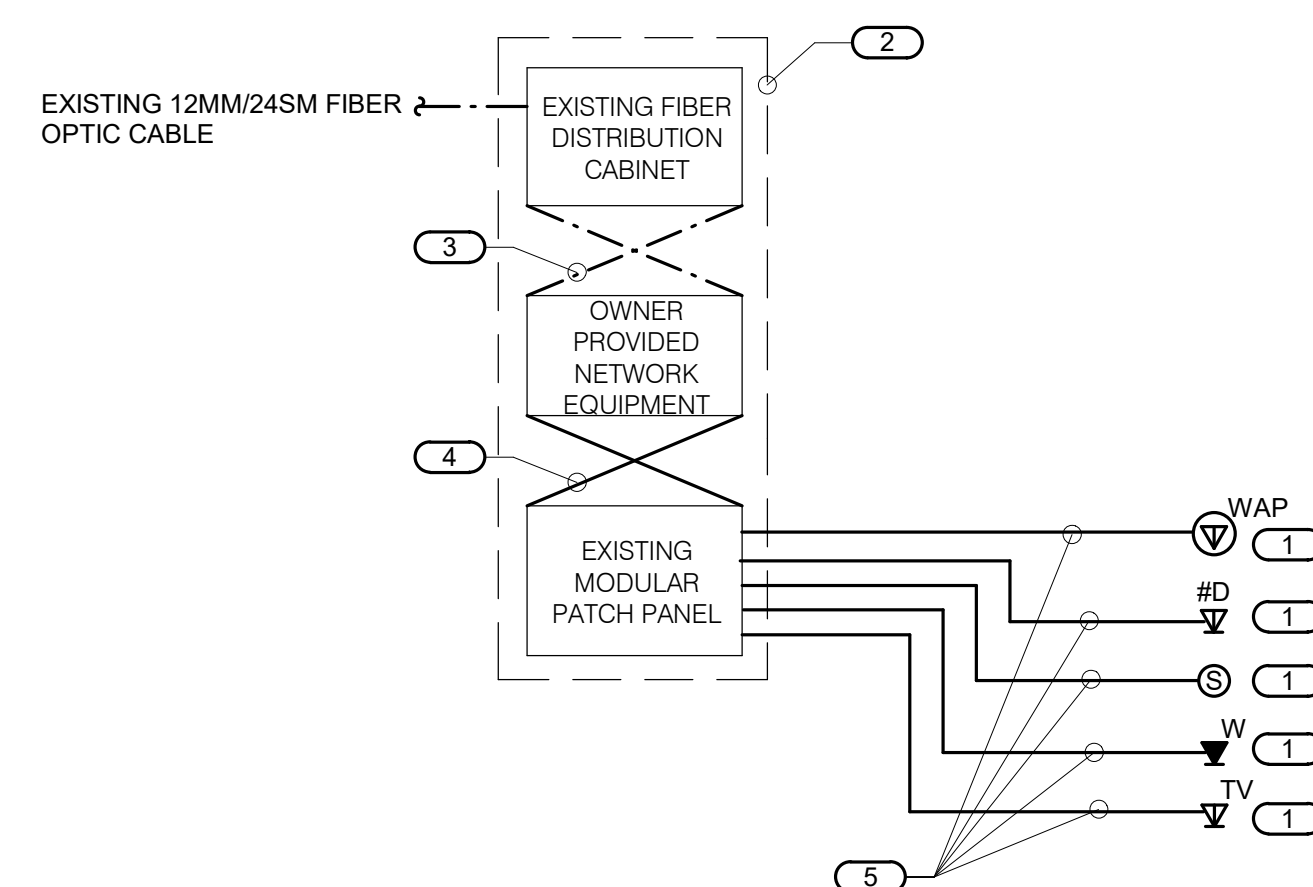
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 2 **TELECOM ROOM PATHWAY TR-03**
1/4" = 1'-0"



3 TELECOM ROOM ELEVATION TR-03
1" = 1'-0"



4 TYPICAL TELECOM ROOM CONNECTIVITY DIAGRAM

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.

KEYNOTES:

1. C# INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE INFORMATION OUTLET SCHEDULE AND SPECIFICATION SECTION 27 15 13 FOR ADDITIONAL INFORMATION.
2. ALL EQUIPMENT EXISTING TO REMAIN RACK(S) OR CABINET(S).
3. REFER TO SPECIFICATIONS FOR FIBER PATCH CORD REQUIREMENTS.
4. RJ-45 TO RJ-45 CATEGORY 6A UTP PATCH CORDS, REFER TO SPECIFICATIONS.
5. 4-PAIR, CATEGORY 6A UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.

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2-Port Faceplate

IDENTIFICATION

1

2

IDENTIFICATION

4-Port Faceplate

IDENTIFICATION

1

2

3

4

IDENTIFICATION

REFER TO SPECIFICATIONS FOR IDENTIFICATION REQUIREMENTS (TYP.)

ANSI/TIA/EIA T568B
PIN/PAIR ASSIGNMENT

NOTES:

1. PROVIDE REMOVABLE BLANK INSERT(S) FOR ALL UNUSED PORTS.
2. REFER TO SPECIFICATIONS SECTION 27 05 53 FOR ADDITIONAL INFORMATION ON LABELING REQUIREMENTS.

SCHEDULE NOTES:
1. LOCATION OF FUTURE OR OWNER PROVIDED WIRELESS ACCESS POINT. PROVIDE A 20' SLACK COIL AT THE NEAREST CABLE SUPPORT FOR POSSIBLE RELOCATION AFTER WIRELESS SURVEY.

LEGEND

DATA CAT 6A RJ-45
TV F-CONNECTOR
BLANK BLANK FILLER MODULE

FACEPLATE PORT IDENTIFICATION

CONFIGURATION

ID

1D-WAP

4D

TV

FACEPLATE PORTS

2

2

4

2

POSITION 1 JACK TYPE

DATA

DATA

DATA

TV

POSITION 2 JACK TYPE

BLANK

BLANK

DATA

DATA

POSITION 3 JACK TYPE

DATA

POSITION 4 JACK TYPE

DATA

POSITION 5 JACK TYPE

POSITION 6 JACK TYPE

1.

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VA FORM 08-6231

CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEDULE

1. ELECTRONIC DOOR HARDWARE SUCH AS ELECTRIC STRIKES, ELECTRIC LATCH RETRACTION, ETC. SHALL BE PROVIDED AND INSTALLED BY OTHERS.
2. REFER TO THE TECHNOLOGY EQUIPMENT SCHEDULE FOR CREDENTIAL READER TYPE INFORMATION.

DOOR #

VESTIBULE T-01A

ROUGH-IN ONLY

RT

CREDENTIAL READER

MULTIPLE CREDENTIAL READERS OPERATES SINGLE DOOR

OPERATES MULTIPLE DOORS

AUTOMATIC DOOR OPERATOR

ELEVATOR

LOCKED BY EMERGENCY DURESS SEQUENCE

INFANT PROTECTION

REMOTE UNLOCK VIA INTERCOM MASTER

REMOTE UNLOCK VIA PUSHBUTTON

INTRUSION DETECTION

REMOTE UNLOCK VIA FIRE COMMAND CENTER

VIDEO SURVEILLANCE

WANDER PREVENTION SYSTEM

MOTION DETECTOR

LOCAL PUSHBUTTON DOOR HARDWARE OVERRIDE

INTERNAL ELECTRIFIED HARDWARE CONNECTION (BY OTHERS)

ELECTRONIC LOCKING HARDWARE (BY OTHERS)

IMAG LOCK

LATCH STATUS DETECTION (BY OTHERS)

LOCAL ALARM HORN

MONITOR LATCH BOLT (BY OTHERS)

MONITOR DOOR POSITION SWITCH SPDT

MONITOR DOOR POSITION SWITCH DPDT

MONITOR DOOR POSITION SWITCH - OVERHEAD DOOR

MONITOR DOOR POSITION SWITCH - ROOF HATCH

DELAYED EGRESS (BY OTHERS)

LOCAL 120VAC POWER SUPPLY

SCHEDULE BASED LOCKING

VISUAL STROBE/AUDIBLE ALARM

NOTES

VA FORM 08-6231

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TECHNOLOGY EQUIPMENT SCHEDULE

| THE EQUIPMENT LIST ABBREVIATIONS AND THE TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM. | | |
|---|---|---|
| CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE. | | |
| EQUIPMENT LIST ABBREVIATION | EQUIPMENT LIST DESCRIPTION | MANUFACTURER AND MODEL |
| AC-CR1-W | ACCESS CONTROL AUTHORIZATION DEVICE, CARD READER KEY PAD. PIV ENABLE TWO-FACTOR AUTHENTICATION KEYPAD | HID SIGNO40T SERIES MATCH EXISTING IN BUILDING |
| PA-S1-C | PAGING SPEAKER, CEILING, 8" CEILING MOUNTED COAXIAL SPEAKER WITH 100Z MAGNET, 120° CONICAL COVERAGE, 15 WATT CONTINUOUS PROGRAM POWER, SENSITIVITY: 95DB AVG. SPL @ 1M, 47HZ-20KHZ ±6DB FREQUENCY RESPONSE, TAPS @ 5W, 2W, 1W, 0.5W & 0.25W @ 70.7V, LOW 0.5DB INSERTION LOSS. PROVIDE WITH BACKBOX, GRILL AND TILE BRIDGE WHERE REQUIRED. | LOWELL SPEAKER 810-T72 BACKBOX 8X04 GRILL A8-AW T-BRIDGE LBS8-CP ATLAS SOUND QUAM |
| SC-CT-1 | CABLE TRAY, WIRE MESH TYPE, 4" LOADING DEPTH, 18" WIDTH, COMPLETE WITH ALL FITTINGS AND MOUNTING HARDWARE. PROVIDE TRAPEZE SUPPORT WITH PLASTIC RETAINER. CUTTING OF THE MESH CABLE TRAY SHALL BE DONE WITH OFFSET BOLT CUTTERS ONLY. 10" MAXIMUM SUPPORT SPAN. EITHER SPLICE WASHERS OR TERMINAL GROUND SUPPORT AND JUMPER WIRE SHALL BE USED TO ATTAIN GROUNDING CONTINUITY THROUGHOUT. Z-BRACKETS SHALL BE USED FOR WALL MOUNTED APPLICATIONS. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATION SECTION 27 05 36 FOR ADDITIONAL INFORMATION. PROVIDE CABLE PATHWAY SEPARATOR AT 5' INTERVALS TO PROVIDE SEPARATE PATHWAYS FOR VOICE/DATA AND NURSE CALL VS. SECURITY AND PAGING. | LEGRAND CABLOFIL CF-105/450 EZ OR PRE-APPROVED EQUAL |
| SC-IO-C | INFORMATION OUTLET, CEILING MOUNT, 2-PORT SURFACE MOUNT BOX AS INDICATED ON DRAWINGS. " # " INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE PLANS. REFER TO T500 FOR INFORMATION OUTLET SCHEDULE FOR PIN CONFIGURATION. FOR 1#-WAP LOCATIONS, CONTRACTOR TO PROVIDE 1-PORT SURFACE MOUNT BOX (ORTRONICS OR-404TJ2) WITH (1) 3' PATCH CABLE, SEE SPECIFICATIONS. | COVERPLATE: ORTRONICS OR-40300549 (1-PORT) OR-40300548 (2-PORT) JACK: ORTRONICS CAT6A OR-TJ6A00OR PRE-APPROVED EQUAL |
| SC-IO-W | INFORMATION OUTLET, WALL MOUNT, 2 OR 4 PORT COVERPLATE AS INDICATED ON DRAWINGS." # "INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE PLANS. REFER TO T500 FOR INFORMATION OUTLET SCHEDULE FOR PIN CONFIGURATION.INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT TO NEAREST ACCESSIBLE CEILING. REFER TO SPECIFICATION SECTION 27 05 33 FOR ADDITIONAL INFORMATION. | COVERPLATE: ORTRONICS OR-40300548 (2-PORT) OR-40300546 (4-PORT) JACK: ORTRONICS CAT6A OR-TJ6A00OR PRE-APPROVED EQUAL |
| SC-WP-W | INFORMATION OUTLET, WALL PHONE. PROVIDE (1) RJ-45 JACK FOR VOICE AT +48" AFF FOR WALL HUNG PHONE. PROVIDE WITH STAINLESS STEEL FACEPLATE, MATING LUGS. INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT TO NEAREST ACCESSIBLE CEILING. | COVERPLATE: ORTRONICS OR-403STJ1WP JACK: ORTRONICS CAT6A OR-TJ6A00OR PRE-APPROVED EQUAL |

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BID DOCUMENT SUBMISSION

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| <div>Revisions:</div> <div>Date:</div> | <div>CONSULTANT</div> <div><div>IMEG</div><div>2882 106TH STREET DES MOINES IA 50322</div></div> | <div>DESIGNER OF RECORD</div> <div><div>ANDERSON</div><div>13605 1st Ave. N. #100 Plymouth, MN 55441 P 763.412.4000 F 763.412.4090 ae-mn.com Anderson Engineering of Minnesota, LLC Proj # 17639</div></div> | <div>STAMP</div> <div><div>KRISTEN SPINALE 1/22/2025</div></div> | <div>Office of Construction and Facilities Management</div> <div>VA U.S. Department of Veterans Affairs</div> | <div>Drawing Title</div> <div>TECHNOLOGY SCHEDULES</div> <div>Approved:</div> | <div>Phase</div> <div>BID DOCUMENTS</div> <div>FULLY SPRINKLERED</div> | <div>Project Title</div> <div>PERFORM SITE PREP FOR SPS EQUIPMENT</div> <div>Location FARGO, ND</div> <div>Issue Date 1/15/2025</div> <div>Checked MARWIT</div> <div>Drawn MATSTU</div> | <div>Project Number</div> <div>437-CSI-241</div> <div>Building Number</div> <div>9</div> <div>Drawing Number</div> <div>T500</div> |
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