

ELECTRICAL ABBREVIATIONS

Table of electrical abbreviations including symbols like +, 1P, 2/C, 3P, etc., and their corresponding descriptions such as MOUNTED ABOVE STANDARD HEIGHT, SINGLE POLE, TWO-CONDUCTOR, etc.

ELECTRICAL POWER SYMBOLS

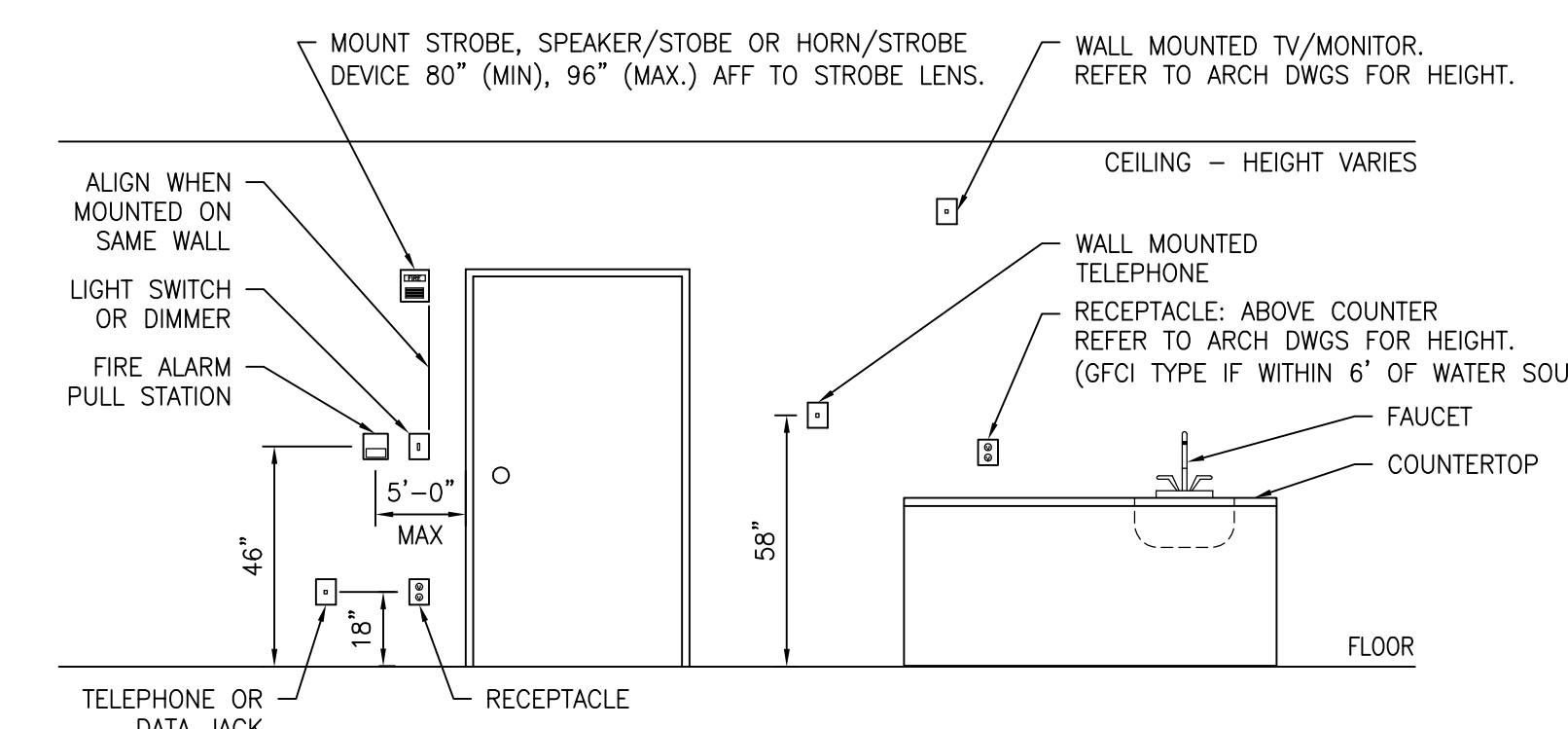
Table of electrical power symbols including key note symbols, detail identifiers, and symbols for equipment to be demolished, distribution panels, and branch circuit panels.

ELECTRICAL SINGLE LINE SYMBOLS

Table of electrical single line symbols including transformer symbols, enclosed circuit breakers, fuses, and various types of circuit breakers.

COMMUNICATION SYMBOLS

Table of communication symbols including symbols for tele/data outlets, telephone outlets, speakers, cable trays, and wireless access points.



TYPICAL DEVICE MOUNTING HEIGHTS

SCALE: NTS ALL DIMENSIONS SHOWN ARE TYPICAL UNLESS OTHERWISE NOTED.

NURSE CALL SYMBOLS

Table of nurse call symbols including symbols for nurse call dome lights and their respective descriptions.

SECURITY SYMBOLS

Table of security symbols including symbols for video cameras, motion detectors, and door holders.

ELECTRICAL LIGHTING SYMBOLS

Table of electrical lighting symbols including symbols for switches, receptacles, drop cords, and various types of light fixtures.

FIRE ALARM SYMBOLS

Table of fire alarm symbols including symbols for detectors, door holders, and duct smoke detectors.

Table for drawing prints with columns for NO., DESCRIPTION, and DATE.

PROJECT TEAM section featuring logos for Miller-Remick LLC and wbrbc, along with contact information for MEP Engineers + Architects.

ENGINEER OF RECORD section featuring the logo and contact information for Miller-Remick LLC.

Miller-Remick LLC PROFESSIONAL ENGINEER text block.

Office of Construction and Facilities Management logo and text.

Table containing drawing title 'ELECTRICAL ABBREVIATIONS & SYMBOLS', approved by Project Director, and other drawing details.

Phase: 100% CONSTRUCTION DOCUMENTS NOT FOR CONSTRUCTION. Fully Sprinklered.

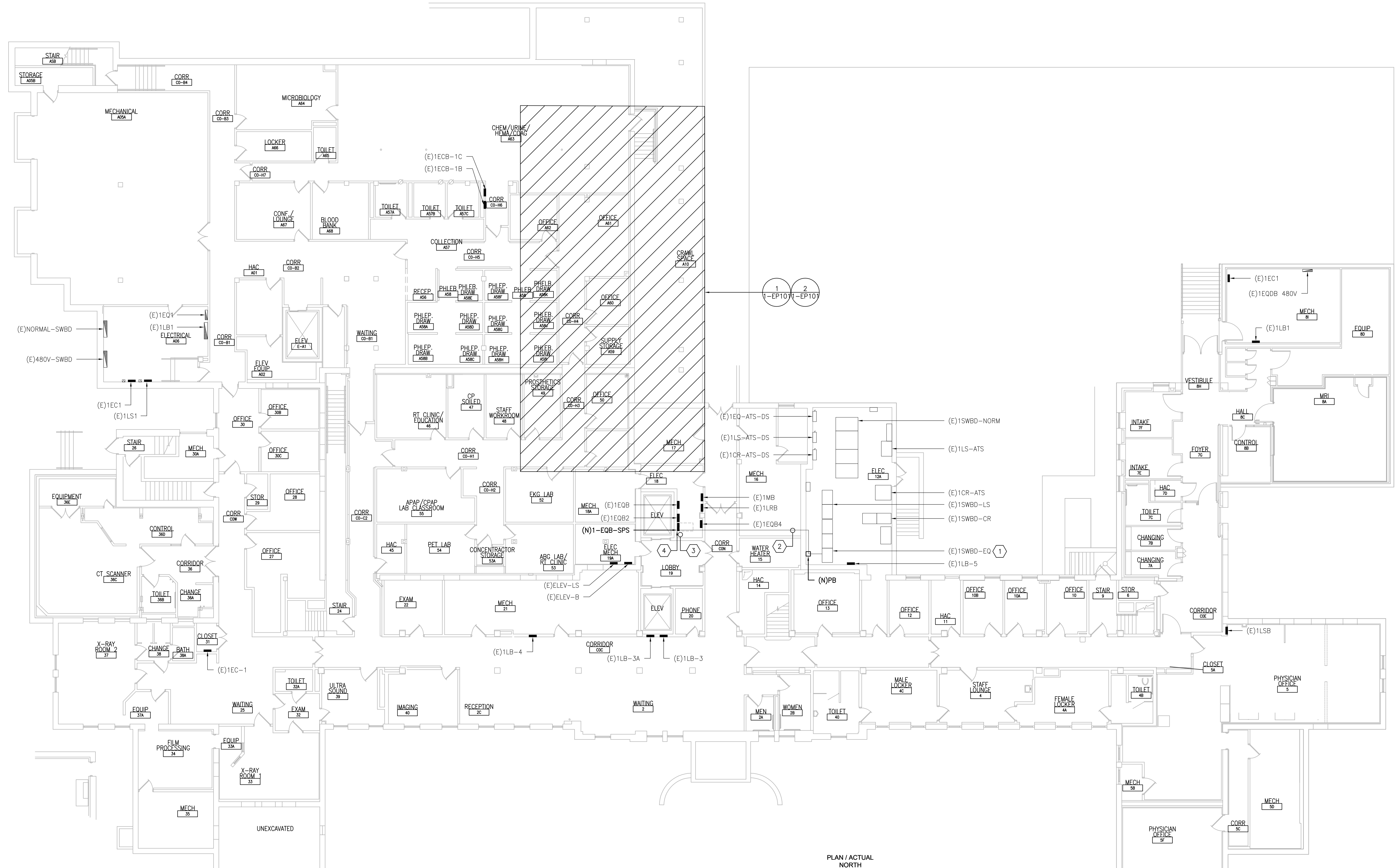
Table with project information including Project Title 'UPGRADE SPS HVAC & ENVIRONMENTAL CONTROLS', Location 'ST. CLOUD VA MEDICAL CENTER, MN', Issue Date '2022-07-15', and Project Number '656-18-300'.

GENERAL SHEET NOTES:

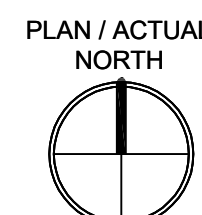
- REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
- REFER TO SERIES E-700 SHEETS FOR PANELBOARD SCHEDULES AND LIGHTING FIXTURE SCHEDULE.
- REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK ASSOCIATED WITH CEILING.
- ADHERE TO ALL ICRA REQUIREMENTS LISTED ON 0101 AND IN SPECIFICATIONS. THE DIFFERENT WORK SPACES ICRA LEVEL HAS BEEN DEFINED BY THE VA AS LEVEL 3 UNLESS OTHERWISE INDICATED. ALL EQUIPMENT IN THE ROOM SHALL BE PROTECTED FROM DUST, DEBRIS AND PHYSICAL DAMAGE AT ALL TIMES.
- AVOID CEILING-MOUNTED AND WALL-MOUNTED DEVICES (I.E. SIGNAGE, LIGHTING FIXTURE, FIRE ALARM, NURSE CALL, WAFS, ETC.) WHEN LOCATING ICRA WALLS. WHERE DEVICES CANNOT BE AVOIDED, THE CONTRACTOR SHALL TEMPORARILY RELOCATE THE DEVICE AND REINSTALL AT ORIGINAL LOCATION AFTER REMOVAL OF ICRA WALL.
- REFER TO SPECIFICATION 02 82 11 APPENDIX A1 FOR ABATEMENT REPORT. THE CONTRACTOR SHALL ADHERE TO AND FOLLOW THE ABATEMENT REPORT FOR ALL KNOWN ABATEMENT LOCATIONS.
- COORDINATE ACCESS PROCEDURES, PROTECTION OF EXISTING RME STORAGE RACKS/EQUIPMENT, CLEANUP AND WORK HOURS WITH THE VA.
- REFER TO MECHANICAL AND PIPING DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND ROUTING OF PIPING/DUCT WORK.

SHEET KEYNOTES:

- EXISTING SWITCHBOARD BY SIEMENS SERIES 6 CAT NO. FC 1, 208/120V, 3 PHASE, 4 WIRE, S.D. 17-19081-3. PROVIDE 200A/3P BREAKER IN EXISTING SPACE TO FEED NEW PANEL 1-EQB-SPS. BREAKER SHALL BE COMPATIBLE WITH SWITCHBOARD, AIC RATING TO MATCH EXISTING. PROVIDE ALL REQUIRED MOUNTING HARDWARE, BUS FINGERS, LUG KIT, FILLER PLATE ETC. PROVIDE RED ENGRAVED LABEL WITH WHITE LETTERS "1-EQB-SPS".
- APPROXIMATE ROUTING OF NEW CONDUIT AND FEEDER (4)3/4" (1)1/2" IN 2" C. MAKE ALL FINAL CONNECTIONS.
- RELOCATE EXISTING (2) 3/4" WITH WIRING TO ACCOMMODATE NEW CONDUITS FROM FLOOR ABOVE. RELOCATE EXISTING SPRINKLER PIPE (SERVING ELEVATOR SHAFT) TO ACCOMMODATE NEW PANEL. CORE DRILL CEILING FOR NEW CONDUITS FROM FLOOR ABOVE.
- PROVIDE NEW PANEL WITH RED ENGRAVED LABEL WITH WHITE LETTERS "1-EQB-SPS". LABEL SHALL INCLUDE VOLTAGE, AMPERAGE, AIC RATING AND FEED SOURCE. INSTALL PANEL SO AS TO AVOID VERTICAL SPRINKLER PIPE. COMPLY WITH NEC REQUIREMENTS FOR WORKING SPACE AND DEDICATE EQUIPMENT SPACE.



1 BASEMENT -- POWER PLAN
SCALE: 3/32" = 1'-0"



three eighths inch = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one half inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot

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NO.	DESCRIPTION	DATE

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MR PROJECT NO: 0376-0011

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL BASEMENT - POWER PLAN

Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENTS
NOT FOR CONSTRUCTION

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Project Title
UPGRADE SPS HVAC & ENVIRONMENTAL CONTROLS

Location
ST. CLOUD VA MEDICAL CENTER, MN

Issue Date	Checked	Drawn
2022-07-15	RC	DR

Project Number
656-18-300

Building Number
1

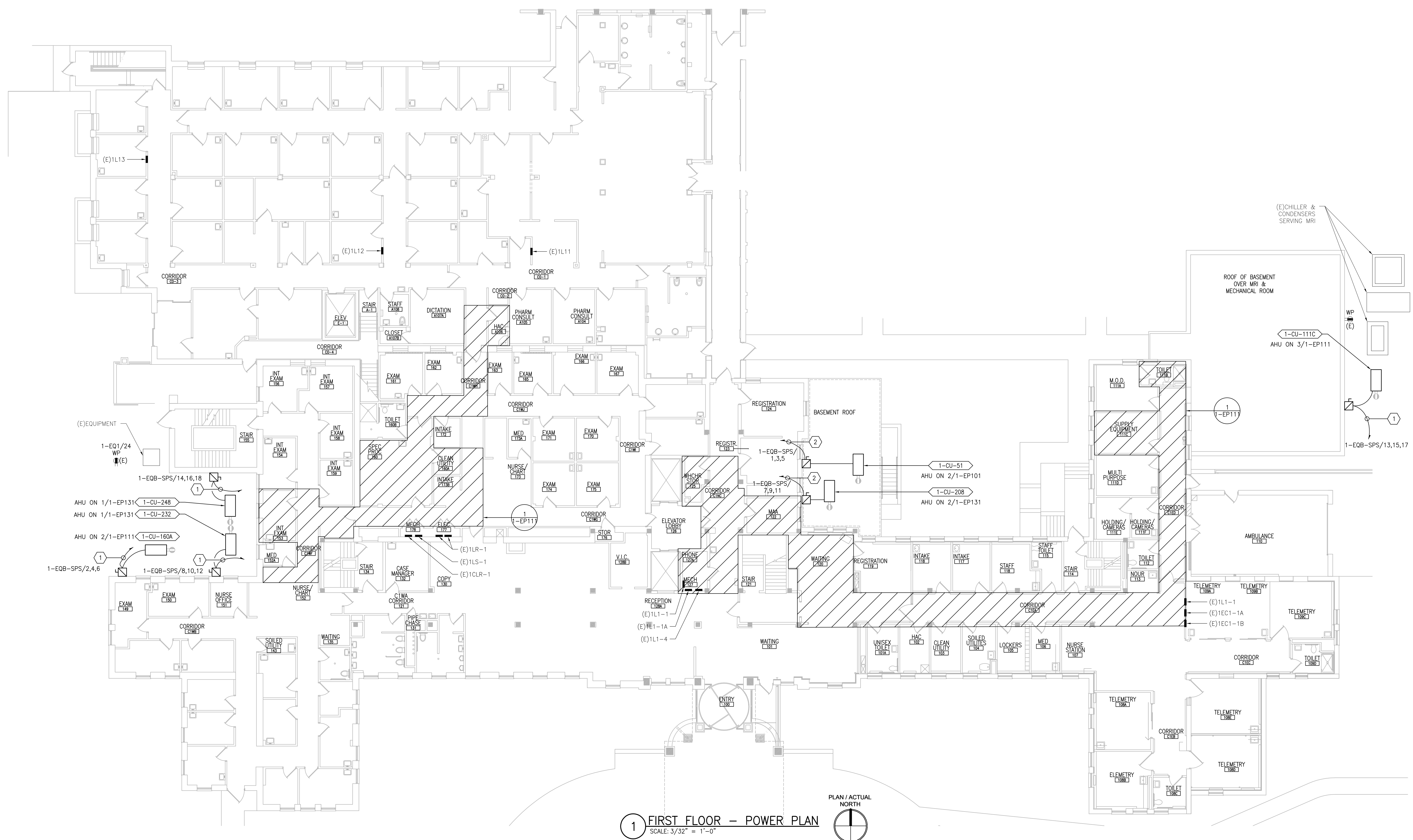
Drawing Number
1-E-101

GENERAL SHEET NOTES:

1. REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
2. REFER TO SHEET 1-E-101 FOR LOCATION OF PANEL 1-EQB-SPS (BASEMENT ELECTRICAL ROOM 18).
3. REFER TO SERIES E-700 SHEETS FOR PANELBOARD SCHEDULES AND LIGHTING FIXTURE SCHEDULE.
4. REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK ASSOCIATED WITH CEILINGS.
5. ADHERE TO ALL ICRA REQUIREMENTS LISTED ON G1001 AND IN SPECIFICATIONS. THE DIFFERENT WORK SPACES ICRA LEVEL HAS BEEN DEFINED BY THE VA AS LEVEL 3 UNLESS OTHERWISE INDICATED. ALL EQUIPMENT IN THE ROOM SHALL BE PROTECTED FROM DUST, DEBRIS AND PHYSICAL DAMAGE AT ALL TIMES.
6. AVOID CEILING-MOUNTED AND WALL-MOUNTED DEVICES (I.E. SIGNAGE, LIGHTING FIXTURE, FIRE ALARM, NURSE CALL, WAFS, ETC.) WHEN LOCATING ICRA WALLS. WHERE DEVICES CANNOT BE AVOIDED, THE CONTRACTOR SHALL TEMPORARILY RELOCATE THE DEVICE AND REINSTALL AT ORIGINAL LOCATION AFTER REMOVAL OF ICRA WALL.
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8. COORDINATE ACCESS PROCEDURES, PROTECTION OF EXISTING RME STORAGE RACKS/EQUIPMENT, CLEANUP AND WORK HOURS WITH THE VA.
9. REFER TO MECHANICAL AND PIPING DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND ROUTING OF PIPING/DUCT WORK.
10. CONDENSING UNITS AND PACKAGED AHU'S: UNITS ARE PROVIDED WITH A FACTORY WIRED 120V RECEPTACLE SHOWN IN GRAY-SCALE (FOR REFERENCE ONLY).

SHEET KEYNOTES:

1. PROVIDE 30A/3P/25AF FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. CONNECT TO ADJACENT CU AND INDICATED CIRCUIT WITH (3)#8 + (1)#10G IN 1" C. PROVIDE GALVANIZED STEEL FRAME WITH GALVANIZED HARDWARE FOR MOUNTING OF DISCONNECT SWITCH ON WALL.
2. PROVIDE 30A/3P/25AF FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. CONNECT TO ADJACENT CU AND INDICATED CIRCUIT WITH (3)#10, (1)#10G IN 3/4" C. PROVIDE GALVANIZED STEEL FRAME WITH GALVANIZED HARDWARE FOR MOUNTING OF DISCONNECT SWITCH ON WALL.



1 FIRST FLOOR - POWER PLAN
SCALE: 3/32" = 1'-0"

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PROJECT TEAM

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MR PROJECT NO: 0376-0011

MILLER-REMICK LLC
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL FIRST FLOOR - POWER PLAN

Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENTS
NOT FOR CONSTRUCTION

FULLY SPRINKLERED

Project Title
UPGRADE SPS HVAC & ENVIRONMENTAL CONTROLS

Location
ST. CLOUD VA MEDICAL CENTER, MN

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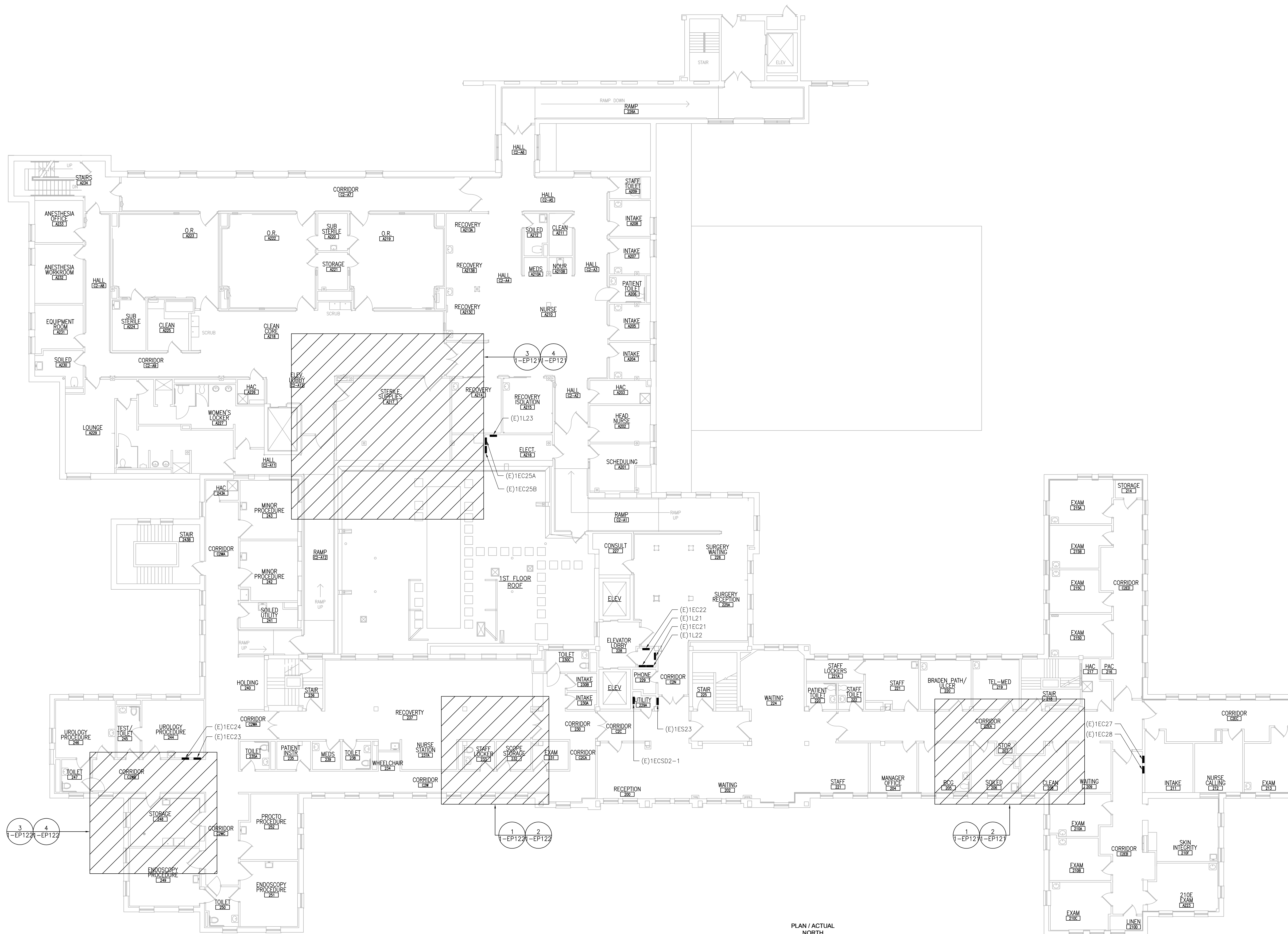
Project Number
656-18-300

Building Number
1

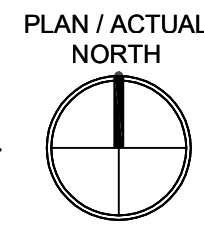
Drawing Number
1-E-111

GENERAL SHEET NOTES:

1. REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK ASSOCIATED WITH CEILINGS.
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1 SECOND FLOOR - POWER PLAN
SCALE: 3/32" = 1'-0"



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NO.	DESCRIPTION	DATE

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Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL SECOND FLOOR - POWER PLAN

Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENTS
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FULLY SPRINKLERED

Project Title
UPGRADE SPS HVAC & ENVIRONMENTAL CONTROLS

Location
ST. CLOUD VA MEDICAL CENTER, MN

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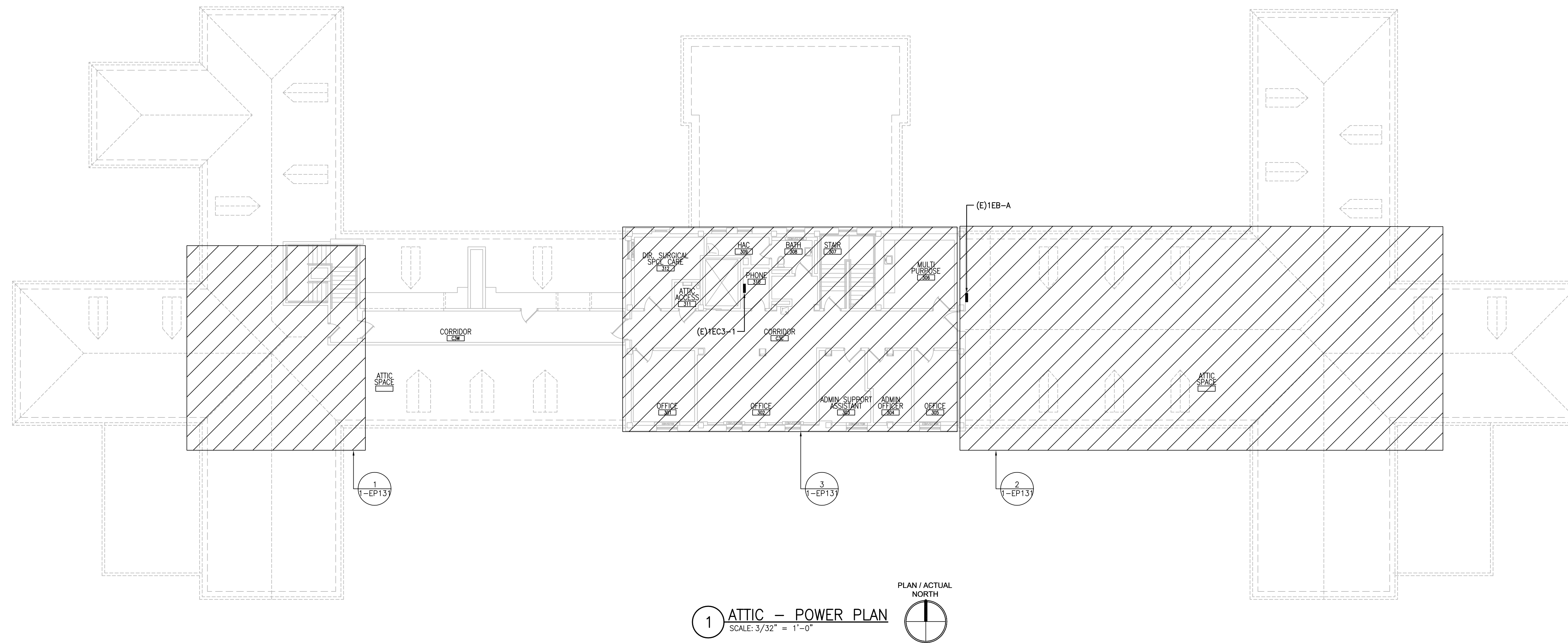
Project Number
656-18-300

Building Number
1

Drawing Number
1-E-121

GENERAL SHEET NOTES:

1. REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
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1 ATTIC - POWER PLAN
SCALE: 3/32" = 1'-0"

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NO.	DESCRIPTION	DATE

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MILLER-REMIK LLC
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL ATTIC - POWER PLAN

Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENTS
NOT FOR CONSTRUCTION

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Project Title
UPGRADE SPS HVAC & ENVIRONMENTAL CONTROLS

Location
ST. CLOUD VA MEDICAL CENTER, MN

Issue Date
2022-07-15

Checked
RC

Drawn
DR

Project Number
656-18-300

Building Number
1

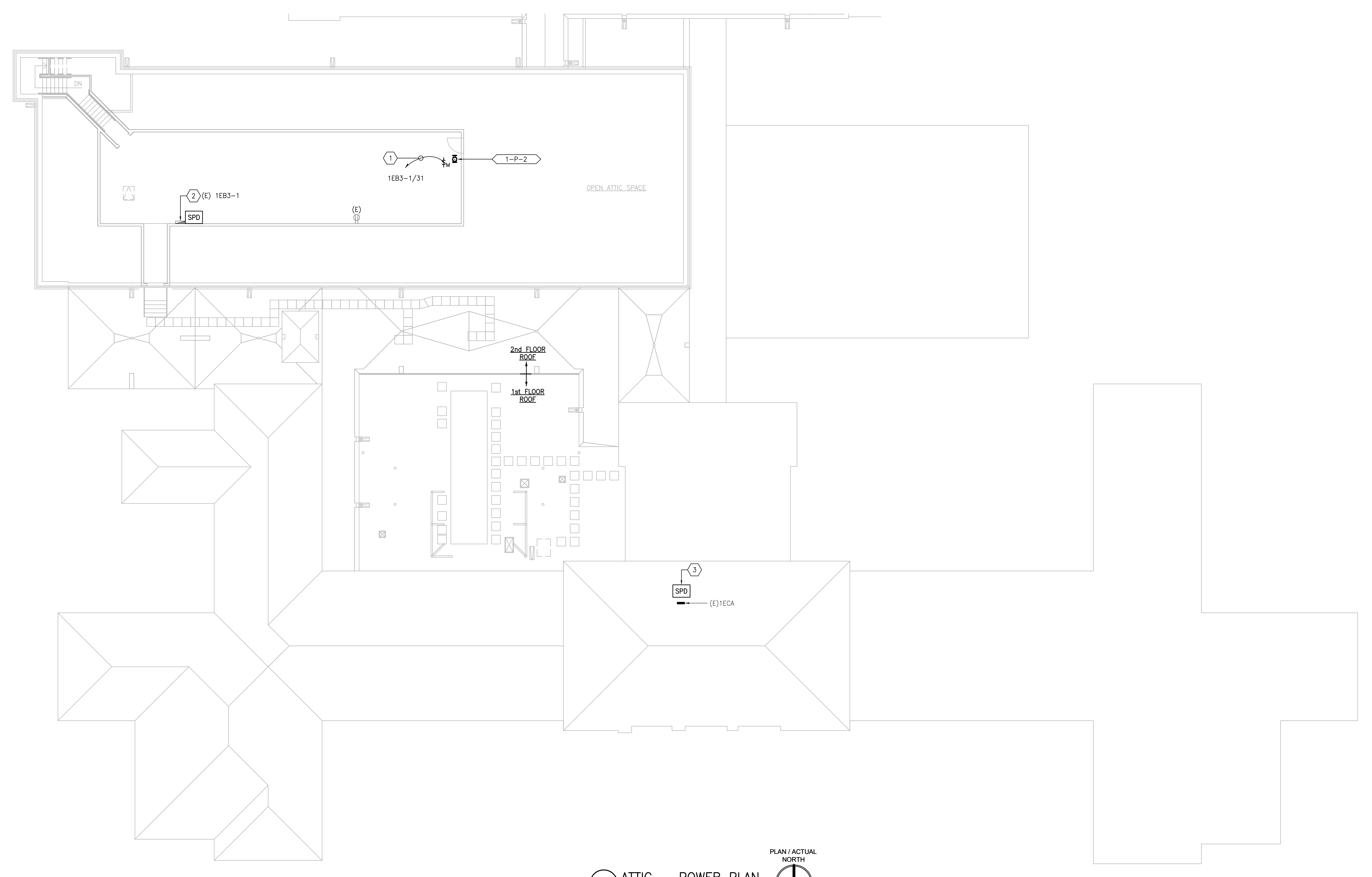
Drawing Number
1-E-131

GENERAL SHEET NOTES:

- REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
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- REFER TO MECHANICAL AND PIPING DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND ROUTING OF PIPING/DUCT WORK.

SHEET KEYNOTES:

- PROVIDE MOTOR-RATED SWITCH WITH INDICATOR LIGHT. COORDINATE LOCATION. MAKE FINAL CONNECTIONS TO INDICATED CIRCUIT AND ADJACENT PUMP.
- EXISTING PANEL BY SQUARE D, I-LINE, 208/120V, 3 PHASE, 4 WIRE. NEW BREAKERS SHALL BE COMPATIBLE WITH EXISTING PANEL AND SHALL MATCH AIC RATING. PROVIDE THE FOLLOWING:
 - PROVIDE (1) 20/1P, 22KAIC BREAKER FOR CONNECTION OF 1-P-2.
 - PROVIDE SPD IN NEMA 1 ENCLOSURE MOUNTED NEAR PANEL. PROVIDE (1) 30A/3P, 22KAIC BREAKER AND (3)#10 + (1)#10G IN 3/4"C. MAKE FINAL CONNECTIONS.
- PROVIDE SPD IN NEMA 1 ENCLOSURE BELOW OR ADJACENT TO ASSOCIATED PANEL. MAKE FINAL CONNECTIONS. REFER TO SHEET E-701.




1 ATTIC - POWER PLAN
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MR PROJECT NO: 0376-0011

MILLER-REMIK LLC
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Office of Construction and Facilities Management



U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL ATTIC - POWER PLAN

Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENTS
NOT FOR CONSTRUCTION

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Project Title
UPGRADE SPS HVAC & ENVIRONMENTAL CONTROLS

Location
ST. CLOUD VA MEDICAL CENTER, MN

Issue Date	Checked	Drawn
2022-07-15	RC	DR

Project Number
656-18-300

Building Number
1

Drawing Number
1-E-141

GENERAL SHEET NOTES:

1. REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
2. REFER TO SHEET 1-E-101 FOR LOCATION OF PANEL 1-EQB-SPS (BASEMENT ELECTRICAL ROOM 18).
3. REFER TO SERIES E-700 SHEETS FOR PANELBOARD SCHEDULES AND LIGHTING FIXTURE SCHEDULE.
4. REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK ASSOCIATED WITH CEILINGS.
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9. REFER TO MECHANICAL AND PIPING DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND ROUTING OF PIPING/DUCT WORK.
10. DEVICE/LIGHTING FIXTURE LABELED AS (REL) SHALL BE DISCONNECTED AND REMOVED DURING CONSTRUCTION. UPON INSTALLATION OF NEW CEILING IN THE SPACE, RE-INSTALL AND CONNECT EXISTING DEVICE/LIGHTING FIXTURE. PROTECT WIRING AND DEVICE/LIGHTING FIXTURE DURING CONSTRUCTION.
11. OCCUPANCY SENSOR WALL SWITCH SHOWN ON DRAWING SHALL BE CONNECTED TO NEW LIGHTING FIXTURE(S) WITHIN THE SAME SPACE.

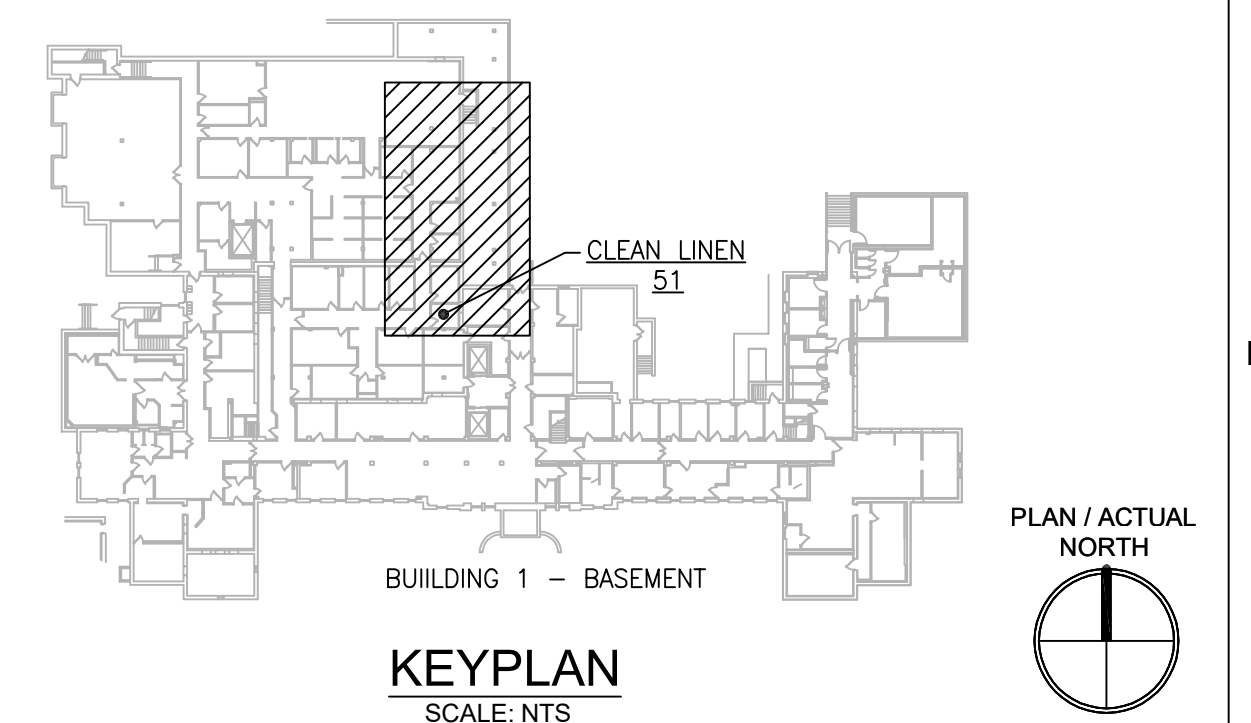
SHEET KEYNOTES:

1. DISCONNECT AND REMOVE EXISTING LIGHTING CIRCUIT. PROTECT BRANCH CIRCUIT DURING CONSTRUCTION.
2. PROVIDE NEW LIGHTING FIXTURE AND CONNECT TO EXISTING BRANCH CIRCUIT PREVIOUSLY FEEDING DEMOLISHED LIGHTING FIXTURE. CONNECT TO EXISTING ROOM LIGHTING CONTROLS. PROVIDE ADDITIONAL CONDUIT AND WIRING AS NEEDED.
3. PROVIDE 30A/3P/25AF FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. CONNECT TO ADJACENT CONTROL PANEL AND INDICATED CIRCUIT WITH (3)#12, (1)#12G IN 3/4" C. PROVIDE UNISTRUT CHANNEL FOR MOUNTING OF DISCONNECT SWITCH ON WALL.
4. FACTORY PRE-WIRED AHU CONTROL PANEL MOUNTED ON UNISTRUT FRAME, WITH 6"-0" INTERCONNECTING WIRING TO ASSOCIATED AHU, PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE ADDITIONAL INTERCONNECTING WIRING AND CONDUIT TO MATCH EXISTING WIRING TYPE AND SIZE. MAKE ALL FINAL CONNECTIONS.



1 BASEMENT ROOM 51 - DEMOLITION
SCALE: 1/4" = 1'-0"
REF DWG: 1-E-101

2 BASEMENT ROOM 51 - NEW WORK
SCALE: 1/4" = 1'-0"
REF DWG: 1-E-101



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MR PROJECT NO: 0376-0011

MILLER-REMICK LLC
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL BASEMENT - DEMOLITION & NEW WORK PART PLANS

Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENTS
NOT FOR CONSTRUCTION

FULLY SPRINKLERED

Project Title
UPGRADE SPS HVAC & ENVIRONMENTAL CONTROLS

Location
ST. CLOUD VA MEDICAL CENTER, MN

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2022-07-15	RC	DR

Project Number
656-18-300

Building Number
1

Drawing Number
1-EP101

GENERAL SHEET NOTES:

- REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
- REFER TO SHEET 1-E-101 FOR LOCATION OF PANEL 1-EQB-SPS (BASEMENT ELECTRICAL ROOM 18).
- REFER TO SHEET 1-E-111 FOR LOCATION OF PANELBOARDS.
- REFER TO SERIES E-700 SHEETS FOR PANELBOARD SCHEDULES AND LIGHTING FIXTURE SCHEDULE.
- REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK ASSOCIATED WITH CEILINGS.
- ADHERE TO ALL ICRA REQUIREMENTS LISTED ON 0001 AND IN SPECIFICATIONS. THE DIFFERENT WORK SPACES (ICRA LEVEL HAS BEEN DEFINED BY THE VA AS LEVEL 3 UNLESS OTHERWISE INDICATED. ALL EQUIPMENT IN THE ROOM SHALL BE PROTECTED FROM DUST, DEBRIS AND PHYSICAL DAMAGE AT ALL TIMES.
- AVOID CEILING-MOUNTED AND WALL-MOUNTED DEVICES (I.E. SIGNAGE, LIGHTING FIXTURE, FIRE ALARM, NURSE CALL, WAPS, ETC.) WHEN LOCATING ICRA WALLS. WHERE DEVICES CANNOT BE AVOIDED, THE CONTRACTOR SHALL TEMPORARILY RELOCATE THE DEVICE AND REINSTALL AT ORIGINAL LOCATION AFTER REMOVAL OF ICRA WALL.
- REFER TO SPECIFICATION 02 82 11 APPENDIX A1 FOR ABATEMENT REPORT. THE CONTRACTOR SHALL ADHERE TO AND FOLLOW THE ABATEMENT REPORT FOR ALL KNOWN ABATEMENT LOCATIONS.
- COORDINATE ACCESS PROCEDURES, PROTECTION OF EXISTING RME STORAGE RACKS/EQUIPMENT, CLEANUP AND WORK HOURS WITH THE VA.
- REFER TO MECHANICAL AND PIPING DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND ROUTING OF PIPING/DUCT WORK.
- DEVICE/LIGHTING FIXTURE LABELED AS (REL) SHALL BE DISCONNECTED AND REMOVED DURING CONSTRUCTION. UPON INSTALLATION OF NEW CEILING IN THE SPACE, RE-INSTALL AND CONNECT EXISTING DEVICE/LIGHTING FIXTURE. PROTECT WIRING AND DEVICE/LIGHTING FIXTURE DURING CONSTRUCTION.
- OCCUPANCY SENSOR WALL SWITCH SHOWN ON DRAWING SHALL BE CONNECTED TO NEW LIGHTING FIXTURE(S) WITHIN THE SAME SPACE.
- CONDENSING UNITS AND PACKAGED AHU'S. UNITS ARE PROVIDED WITH A FACTORY WIRED 120V RECEPTACLE SHOWN IN GRAY-SCALE (FOR REFERENCE ONLY).

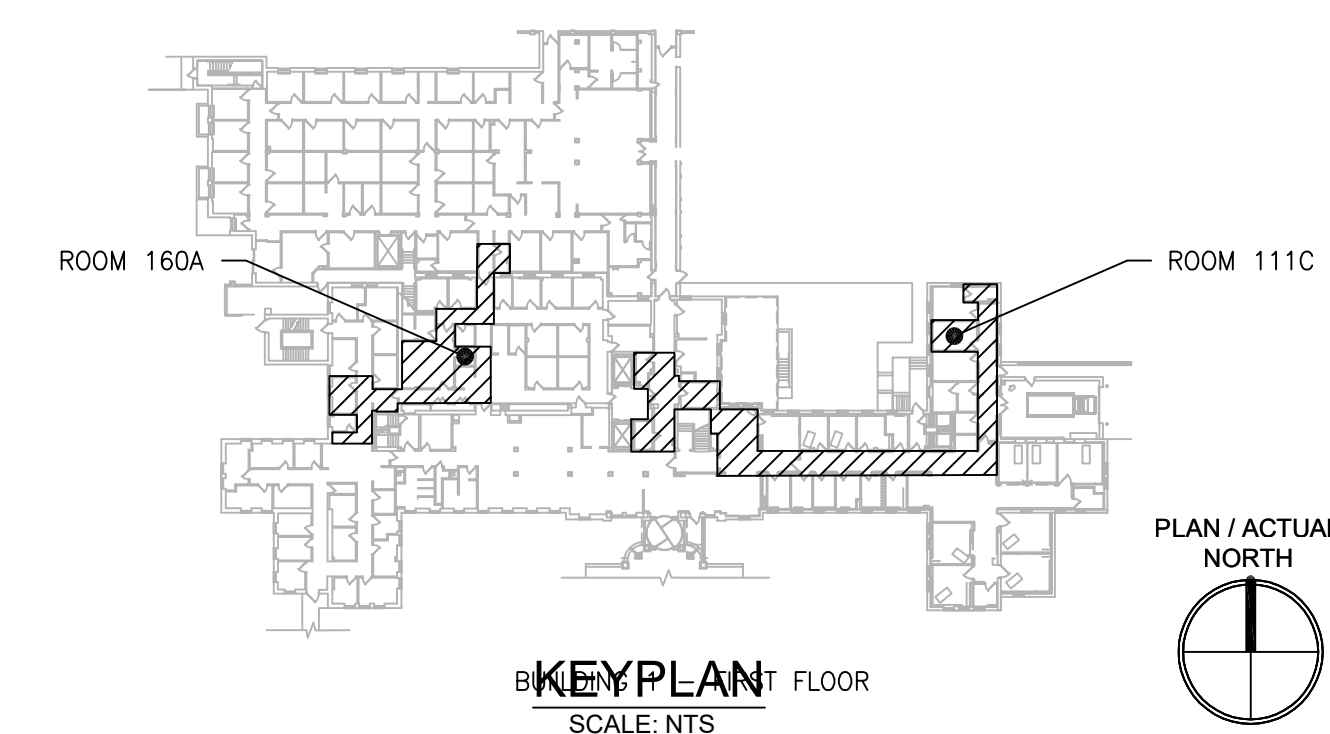
SHEET KEYNOTES:

- REMOVE PORTION OF ABOVE-CEILING CABLE TRAY. PROVIDE J-HOOKS TO RE-SUPPORT CABLES PREVIOUSLY ROUTED IN REMOVED CABLE TRAY.
- DISCONNECT AND REMOVE EXISTING LIGHTING CIRCUIT. PROTECT BRANCH CIRCUIT DURING CONSTRUCTION.
- RELOCATE EXISTING DISCONNECT SWITCH TO OTHER SIDE OF EXISTING ADJACENT VFD. RE-ROUTE ASSOCIATED (3) 3/4" (1) 3/4" FMC AND ASSOCIATED WIRING. MAKE ALL FINAL CONNECTIONS. CORE DRILL FLOOR SLAB TO FEED NEW CIRCUITS DOWN TO PANEL 1-EQB-SPS IN BASEMENT.
- PROVIDE NEW LIGHTING FIXTURE AND CONNECT TO EXISTING BRANCH CIRCUIT PREVIOUSLY FEEDING DEMOLISHED LIGHTING FIXTURE. CONNECT TO EXISTING ROOM LIGHTING CONTROLS. PROVIDE ADDITIONAL CONDUIT AND WIRING AS NEEDED.
- PROVIDE 30A/3P/15AF FUSED DISCONNECT SWITCH IN NEMA 1 ENCLOSURE. CONNECT TO ADJACENT CONTROL PANEL AND INDICATED CIRCUIT WITH (3)#10, (1)#10G IN 3/4" PROVIDE UNISTRUT CHANNEL FOR MOUNTING OF DISCONNECT SWITCH ON WALL ABOVE CEILING.
- FACTORY PRE-WIRED AHU CONTROL PANEL MOUNTED ON UNISTRUT FRAME, WITH 6"-0" INTERCONNECTING WIRING TO ASSOCIATED AHU, PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE ADDITIONAL INTERCONNECTING WIRING AND CONDUIT TO MATCH EXISTING WIRING TYPE AND SIZE. MAKE ALL FINAL CONNECTIONS.
- PROVIDE ABOVE-CEILING MOTOR-RATED SWITCH WITH INDICATOR LIGHT. ROUTE (2)#10 + (1)#10G IN 3/4" TO INDICATED PANEL AND ADJACENT CONDENSATE PUMP. MAKE FINAL CONNECTIONS.
- PROVIDE 20A TOGGLE SWITCH WITH INDICATOR LIGHT IN NEMA 3R ENCLOSURE. MOUNT ON UNISTRUT FRAME. ROUTE (2)#12 + (1)#12G IN 3/4" TO INDICATED PANEL AND ADJACENT HEAT TRACE CONTROL PANEL. HEAT TRACE PANEL PROVIDED BY MECHANICAL CONTRACTOR. MAKE ALL FINAL CONNECTIONS. COORDINATE LOCATION.

1 FIRST FLOOR PART PLAN - DEMOLITION & NEW WORK
SCALE: 1/8" = 1'-0"
REF DWG: 1-E-111

2 FIRST FLOOR ROOM 160A - NEW WORK
SCALE: 1/4" = 1'-0"
REF DWG: 1-E-111

3 BUILDING 1 FIRST FLOOR ROOM 111C - NEW WORK
SCALE: 1/4" = 1'-0"
REF DWG: 1-E-111



PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

NO.	DESCRIPTION	DATE

PROJECT TEAM

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1-866-267-6839

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M.E.P. & Structural Engineering
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FAX: (856)429-9002
MR PROJECT NO: 0376-0011

MILLER-REMICK LLC
PROFESSIONAL ENGINEER

Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title
**ELECTRICAL
FIRST FLOOR - DEMOLITION & NEW
WORK PART PLANS**

Approved: Project Director

Phase
100% CONSTRUCTION
DOCUMENTS
NOT FOR CONSTRUCTION

FULLY SPRINKLERED

Project Title
**UPGRADE SPS HVAC &
ENVIRONMENTAL CONTROLS**

Location
ST. CLOUD VA MEDICAL CENTER, MN

Issue Date	Checked	Drawn
2022-07-15	MR	PNL

Project Number
656-18-300

Building Number
1

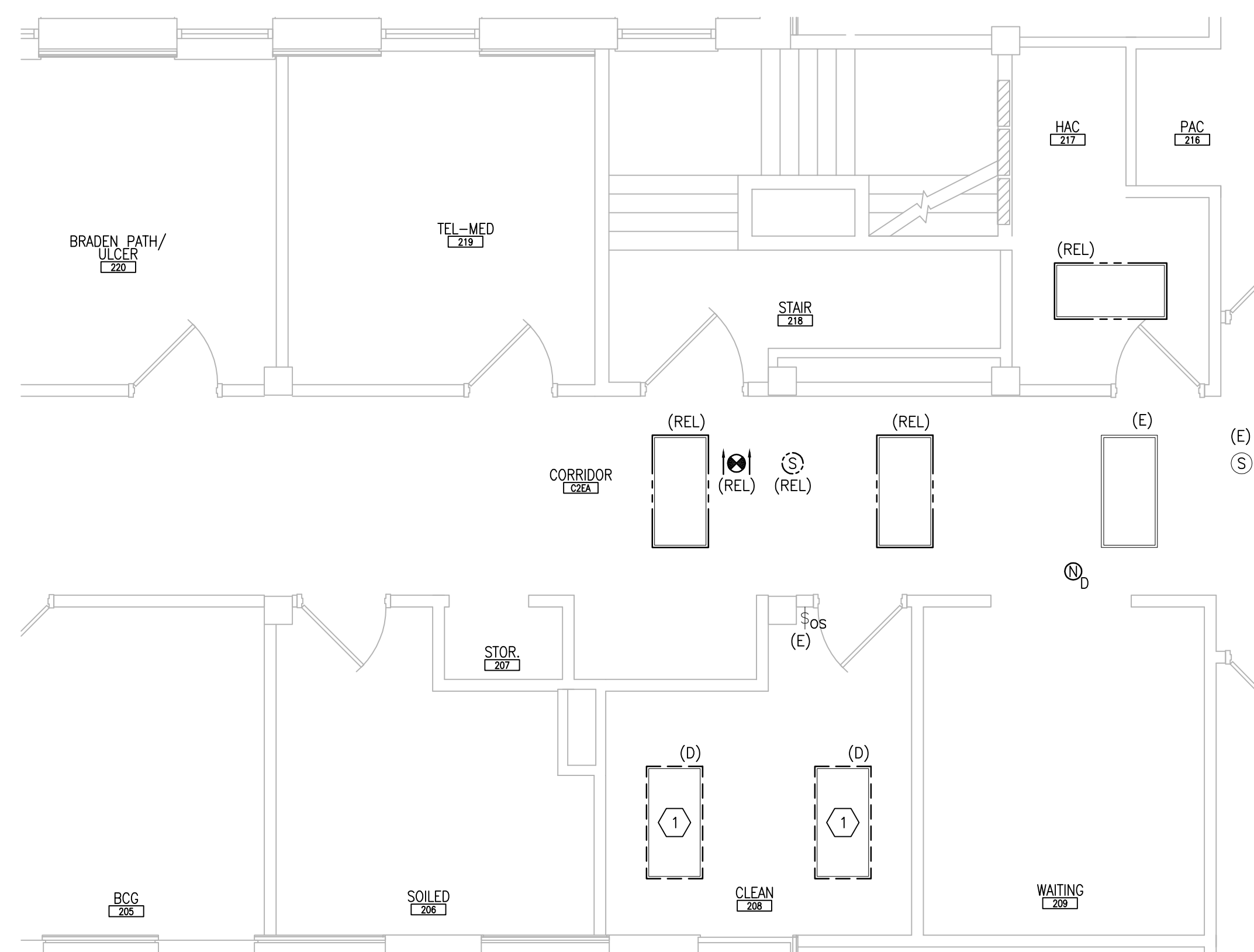
Drawing Number
1-EP111

GENERAL SHEET NOTES:

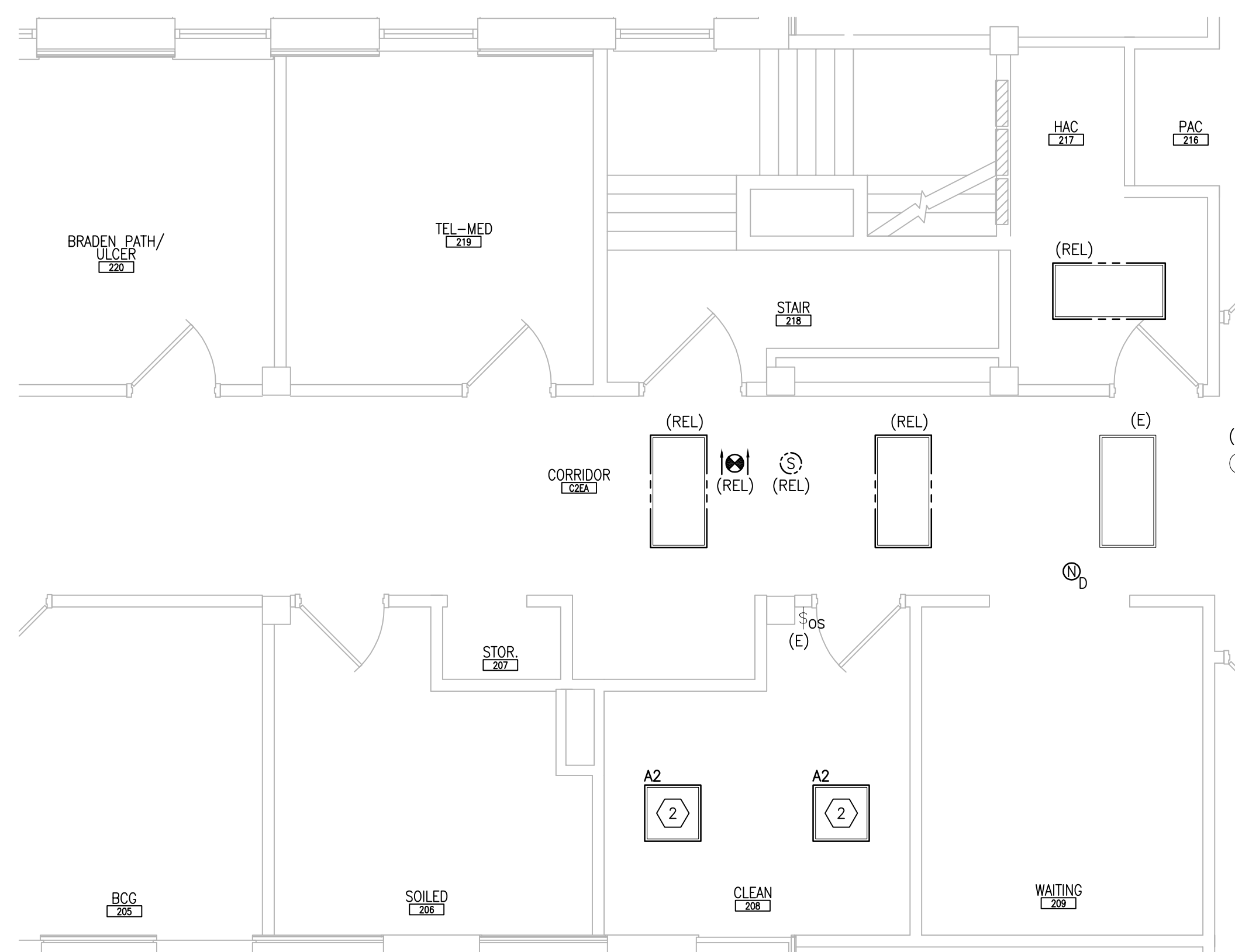
- REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
- REFER TO SHEET 1-E-121 FOR LOCATION OF PANELBOARDS.
- REFER TO SHEET 1-E-141 FOR LOCATION OF PANEL 1ECA.
- REFER TO SERIES E-700 SHEETS FOR PANELBOARD SCHEDULES AND LIGHTING FIXTURE SCHEDULE.
- REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK ASSOCIATED WITH CEILINGS.
- ADHERE TO ALL ICRA REQUIREMENTS LISTED ON G001 AND IN SPECIFICATIONS. THE DIFFERENT WORK SPACES ICRA LEVEL HAS BEEN DEFINED BY THE VA AS LEVEL 3. UNLESS OTHERWISE INDICATED, ALL EQUIPMENT IN THE ROOM SHALL BE PROTECTED FROM DUST, DEBRIS AND PHYSICAL DAMAGE AT ALL TIMES.
- AVOID CEILING-MOUNTED AND WALL-MOUNTED DEVICES (I.E. SIGNAGE, LIGHTING FIXTURE, FIRE ALARM, NURSE CALL, WAPS, ETC.) WHEN LOCATING ICRA WALLS. WHERE DEVICES CANNOT BE AVOIDED, THE CONTRACTOR SHALL TEMPORARILY RELOCATE THE DEVICE AND REINSTALL AT ORIGINAL LOCATION AFTER REMOVAL OF ICRA WALL.
- REFER TO SPECIFICATION 02 82 11 APPENDIX A1 FOR ABATEMENT REPORT. THE CONTRACTOR SHALL ADHERE TO AND FOLLOW THE ABATEMENT REPORT FOR ALL KNOWN ABATEMENT LOCATIONS.
- COORDINATE ACCESS PROCEDURES, PROTECTION OF EXISTING RME STORAGE RACKS/EQUIPMENT, CLEANUP AND WORK HOURS WITH THE VA.
- REFER TO MECHANICAL AND PIPING DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND ROUTING OF PIPING/DUCT WORK.
- DEVICE/LIGHTING FIXTURE LABELED AS (REL) SHALL BE DISCONNECTED AND REMOVED DURING CONSTRUCTION. UPON INSTALLATION OF NEW CEILING IN THE SPACE, RE-INSTALL AND CONNECT EXISTING DEVICE/LIGHTING FIXTURE. PROTECT WIRING AND DEVICE/LIGHTING FIXTURE DURING CONSTRUCTION.
- OCCUPANCY SENSOR WALL SWITCH OR CEILING-MOUNTED SENSOR SHOWN ON DRAWING SHALL BE CONNECTED TO NEW LIGHTING FIXTURE(S) WITHIN THE SAME SPACE.
- CONDENSING UNITS AND PACKAGED AHU'S; UNITS ARE PROVIDED WITH A FACTORY WIRED 120V RECEPTACLE SHOWN IN GRAY-SCALE (FOR REFERENCE ONLY).

SHEET KEYNOTES:

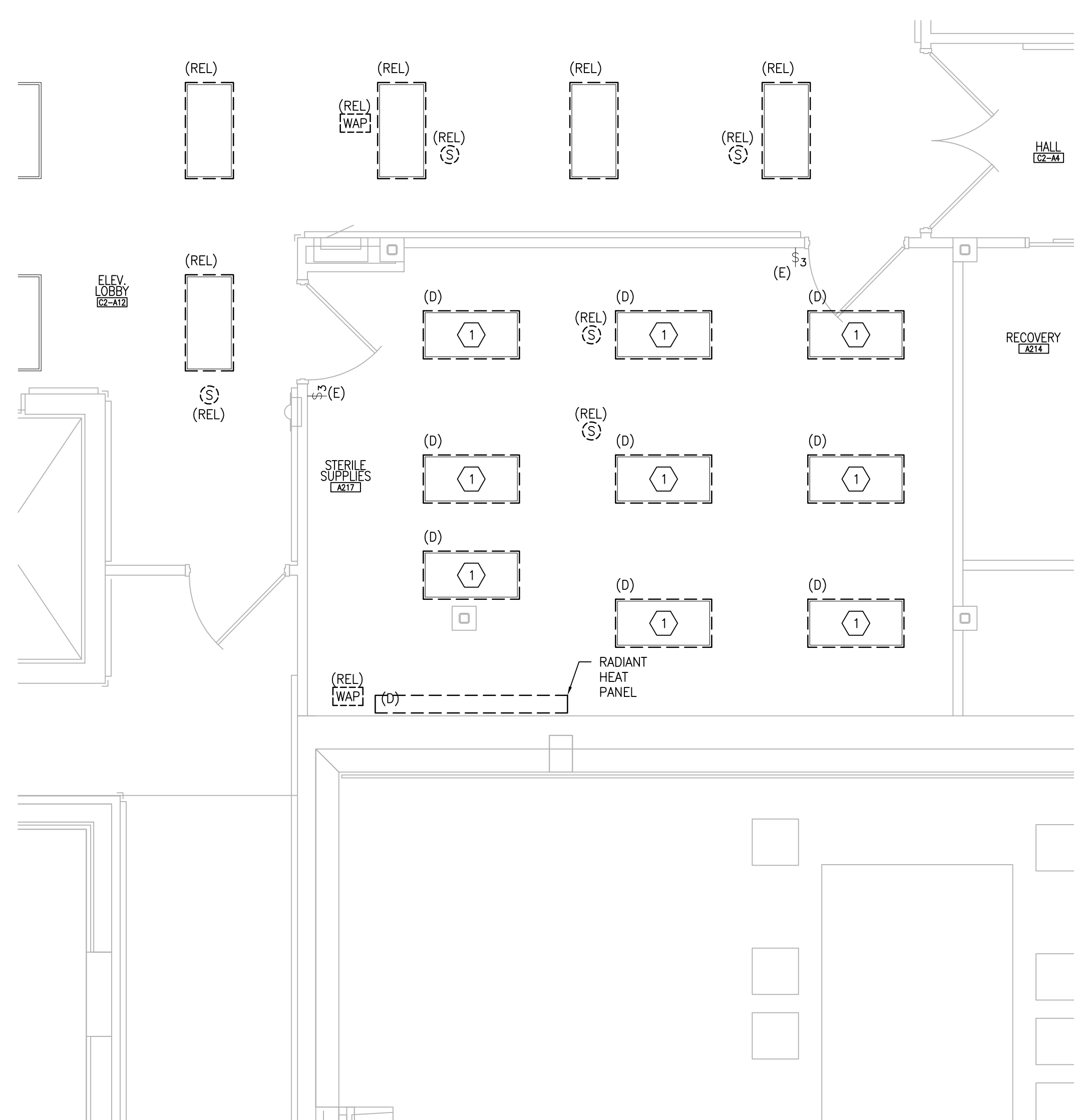
- DISCONNECT AND REMOVE EXISTING LIGHTING CIRCUIT. PROTECT BRANCH CIRCUIT DURING CONSTRUCTION.
- PROVIDE NEW LIGHTING FIXTURE AND CONNECT TO EXISTING BRANCH CIRCUIT PREVIOUSLY FEEDING DEMOLISHED LIGHTING FIXTURE. CONNECT TO EXISTING ROOM LIGHTING CONTROLS. PROVIDE ADDITIONAL CONDUIT AND WIRING AS NEEDED.
- PROVIDE 30A/3P/NF DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. CONNECT TO ADJACENT CU AND INDICATED CIRCUIT WITH (3)#10 + (1)#10G IN 3/4" C. PROVIDE GALVANIZED STEEL FRAME WITH GALVANIZED HARDWARE FOR MOUNTING OF DISCONNECT SWITCH ON WALL.
- PROVIDE 20A TOGGLE SWITCH WITH INDICATOR LIGHT IN NEMA 3R ENCLOSURE. ROUTE (2)#12 + (1)#12G IN 3/4" C TO INDICATED PANEL AND ADJACENT HEAT TRACE CONTROL PANEL. HEAT TRACE PANEL PROVIDED BY MECHANICAL CONTRACTOR. MAKE ALL FINAL CONNECTIONS. COORDINATE LOCATION.



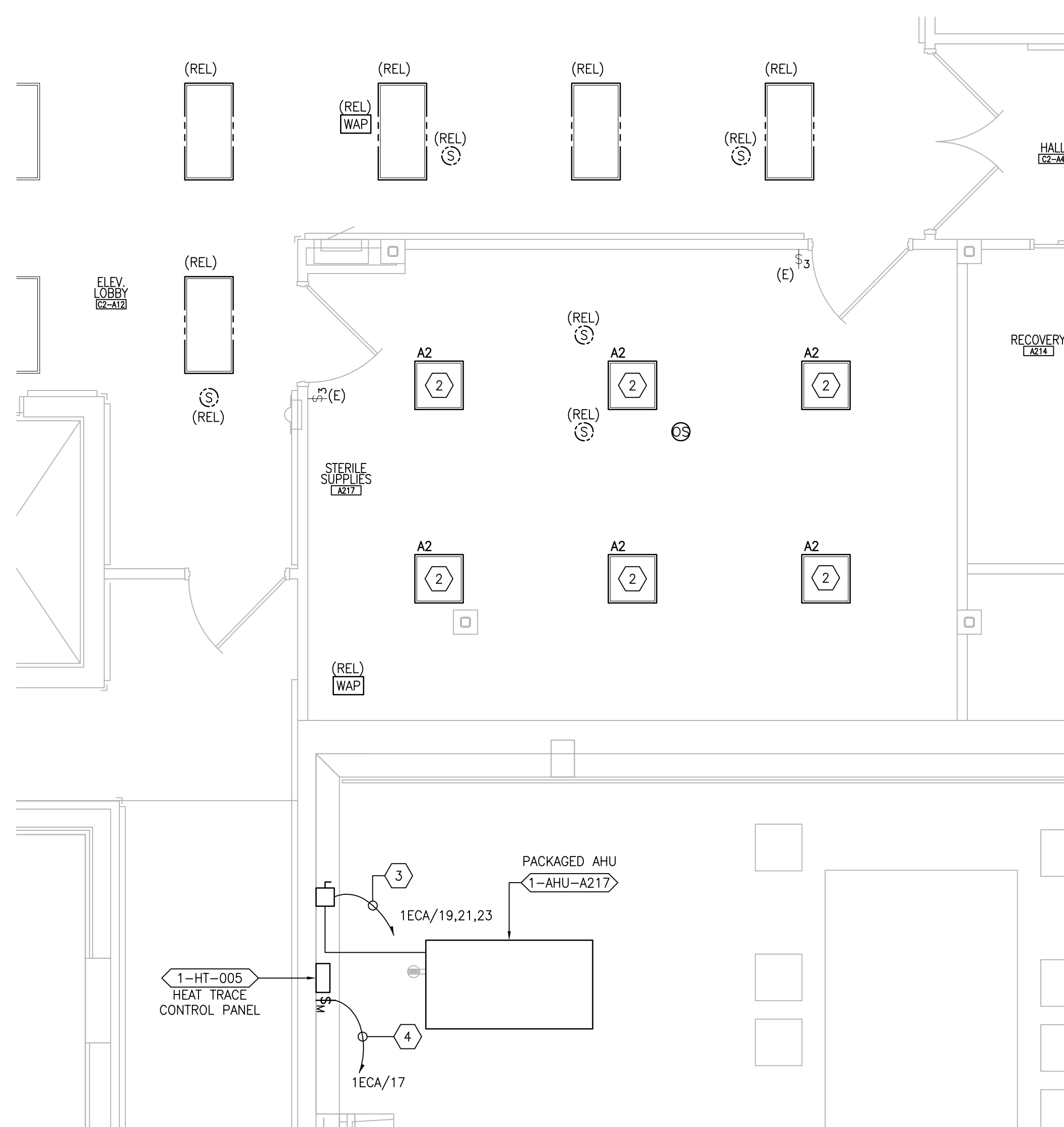
1 SECOND FLOOR ROOM 208 - DEMOLITION
SCALE: 1/4" = 1'-0"
REF DWG: 1-E-121



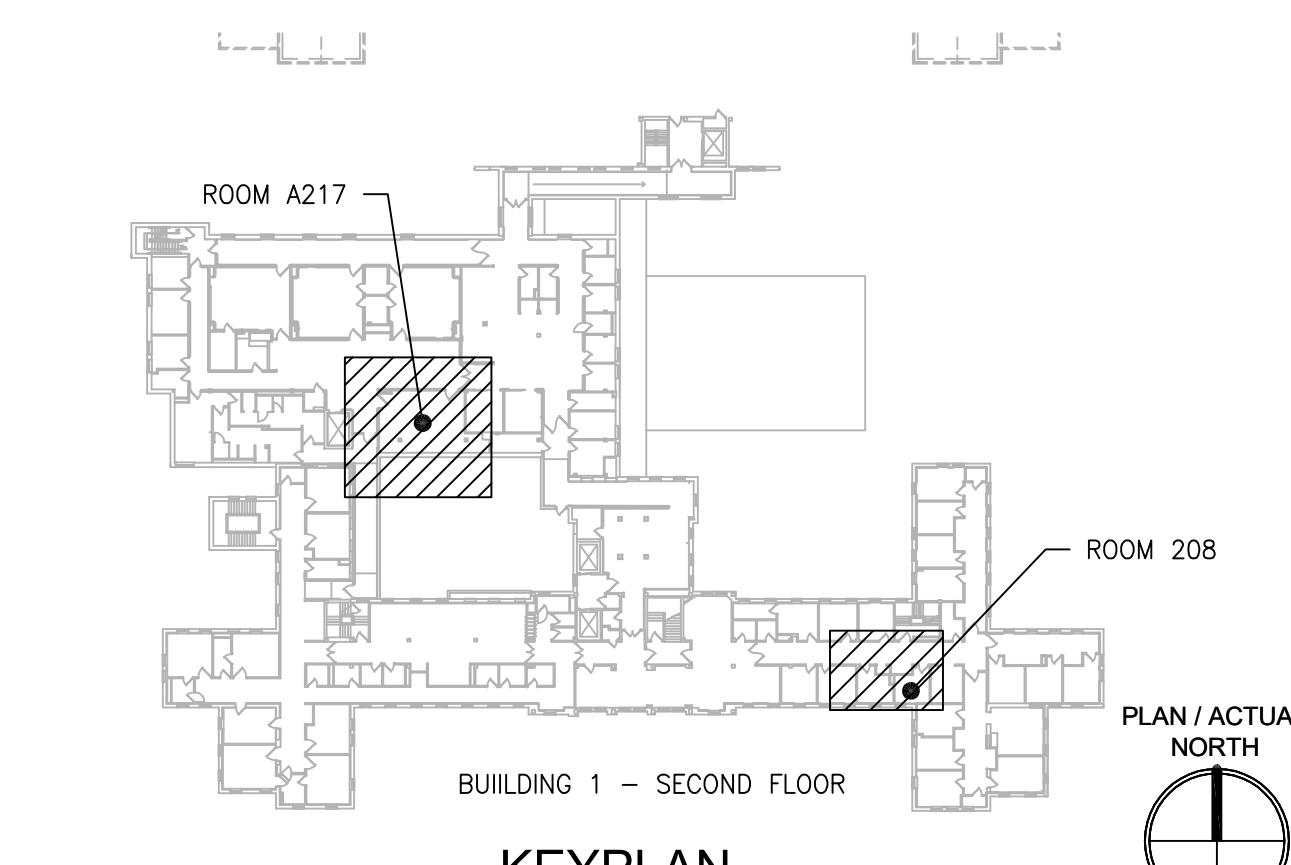
2 SECOND FLOOR ROOM 208 - NEW WORK
SCALE: 1/4" = 1'-0"
REF DWG: 1-E-121



3 SECOND FLOOR ROOM A217 - DEMOLITION
SCALE: 1/4" = 1'-0"
REF DWG: 1-E-121



4 SECOND FLOOR ROOM A217 - NEW WORK
SCALE: 1/4" = 1'-0"
REF DWG: 1-E-121



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NO.	DESCRIPTION	DATE

PROJECT TEAM

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1173 Research Way
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FAX: (856) 429-5002
MR PROJECT NO: 0376-0011

MILLER-REMICK LLC
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL SECOND FLOOR - DEMOLITION & NEW WORK PART PLANS

Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENTS
NOT FOR CONSTRUCTION

FULLY SPRINKLERED

Project Title
UPGRADE SPS HVAC & ENVIRONMENTAL CONTROLS

Location
ST. CLOUD VA MEDICAL CENTER, MN

Issue Date
2022-07-15

Checked
RC

Drawn
DR

Project Number
656-18-300

Building Number
1

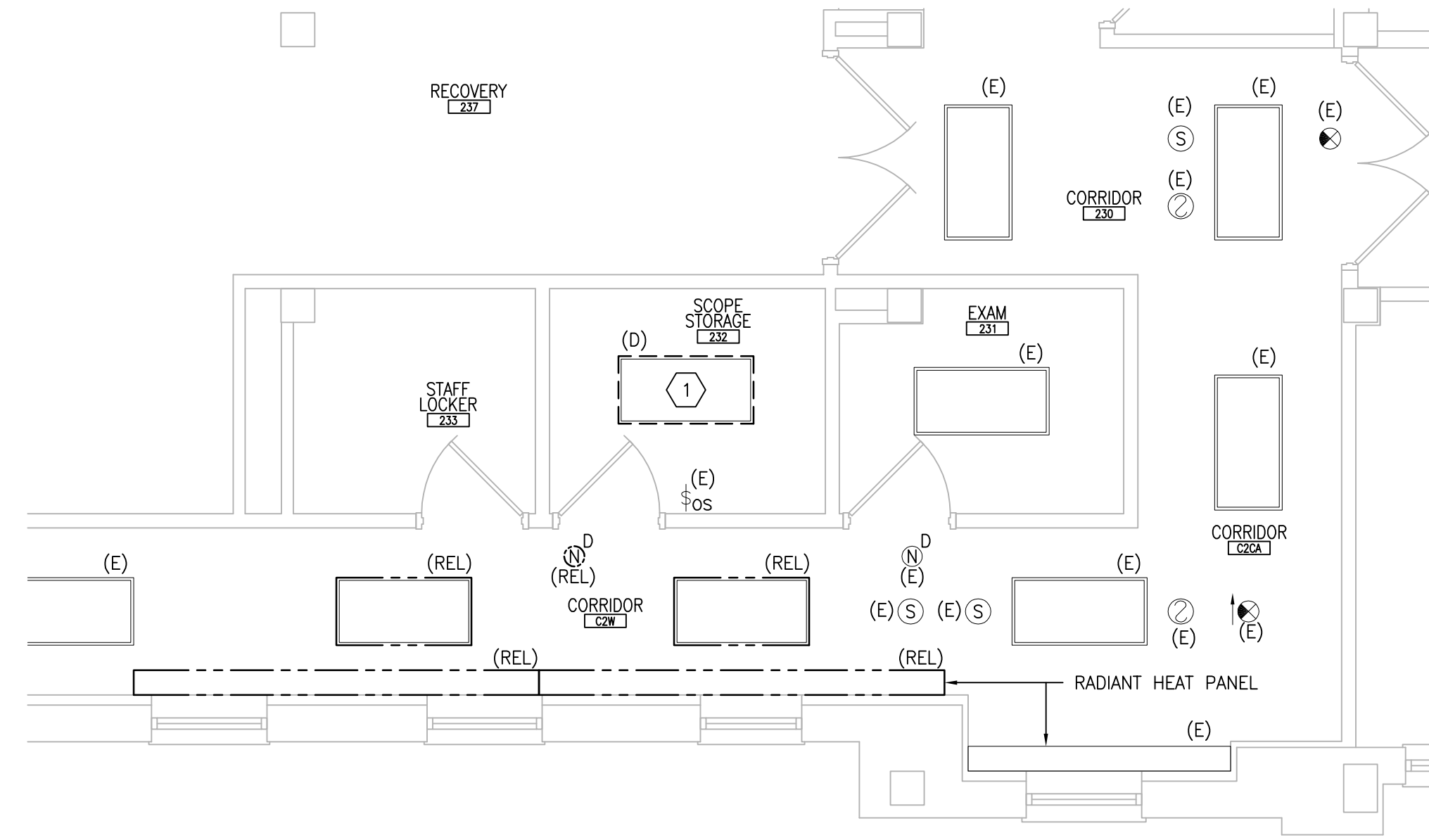
Drawing Number
1-EP121

GENERAL SHEET NOTES:

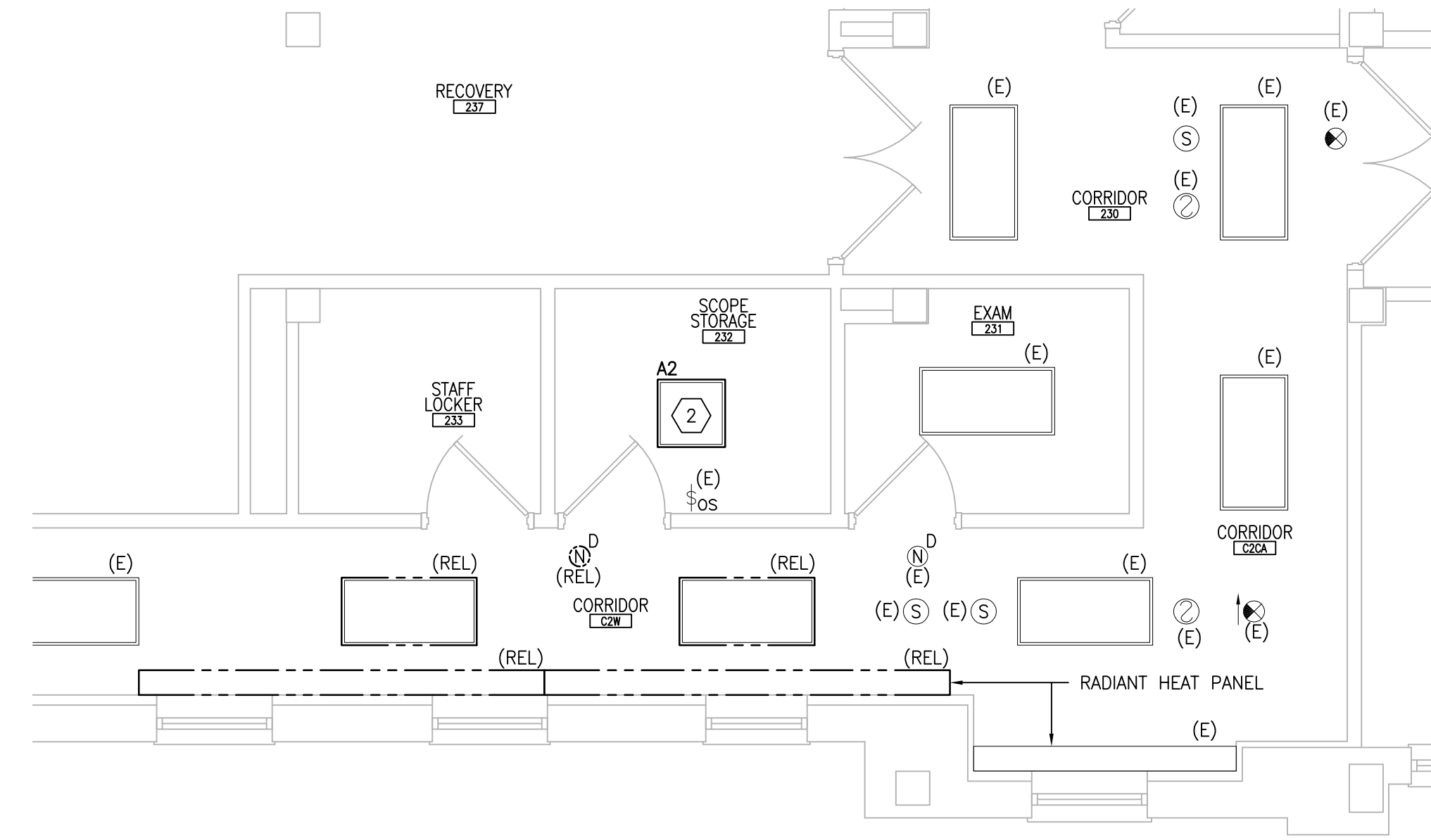
- REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
- REFER TO SHEET 1-E-121 FOR LOCATION OF PANELBOARDS.
- REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK ASSOCIATED WITH CEILINGS.
- ADHERE TO ALL ICRA REQUIREMENTS LISTED ON G1001 AND IN SPECIFICATIONS. THE DIFFERENT WORK SPACES ICRA LEVEL HAS BEEN DEFINED BY THE VA AS LEVEL 3 UNLESS OTHERWISE INDICATED. ALL EQUIPMENT IN THE ROOM SHALL BE PROTECTED FROM DUST, DEBRIS AND PHYSICAL DAMAGE AT ALL TIMES.
- AVOID CEILING-MOUNTED AND WALL-MOUNTED DEVICES (I.E. SIGNAGE, LIGHTING FIXTURE, FIRE ALARM, NURSE CALL, WAPS, ETC.) WHEN LOCATING ICRA WALLS. WHERE DEVICES CANNOT BE AVOIDED, THE CONTRACTOR SHALL TEMPORARILY RELOCATE THE DEVICE AND REINSTALL AT ORIGINAL LOCATION AFTER REMOVAL OF ICRA WALL.
- REFER TO SPECIFICATION 02 B2 11 APPENDIX A1 FOR ABATEMENT REPORT. THE CONTRACTOR SHALL ADHERE TO AND FOLLOW THE ABATEMENT REPORT FOR ALL KNOWN ABATEMENT LOCATIONS.
- COORDINATE ACCESS PROCEDURES, PROTECTION OF EXISTING RME STORAGE RACKS/EQUIPMENT, CLEANUP AND WORK HOURS WITH THE VA.
- REFER TO MECHANICAL AND PIPING DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND ROUTING OF PIPING/DUCT WORK.
- DEVICE/LIGHTING FIXTURE LABELED AS (REL) SHALL BE DISCONNECTED AND REMOVED DURING CONSTRUCTION. UPON INSTALLATION OF NEW CEILING IN THE SPACE, RE-INSTALL AND CONNECT EXISTING DEVICE/LIGHTING FIXTURE. PROTECT WIRING AND DEVICE/LIGHTING FIXTURE DURING CONSTRUCTION.
- OCCUPANCY SENSOR SHOWN ON DRAWING SHALL BE CONNECTED TO NEW LIGHTING FIXTURE(S) WITHIN THE SAME SPACE.

SHEET KEYNOTES:

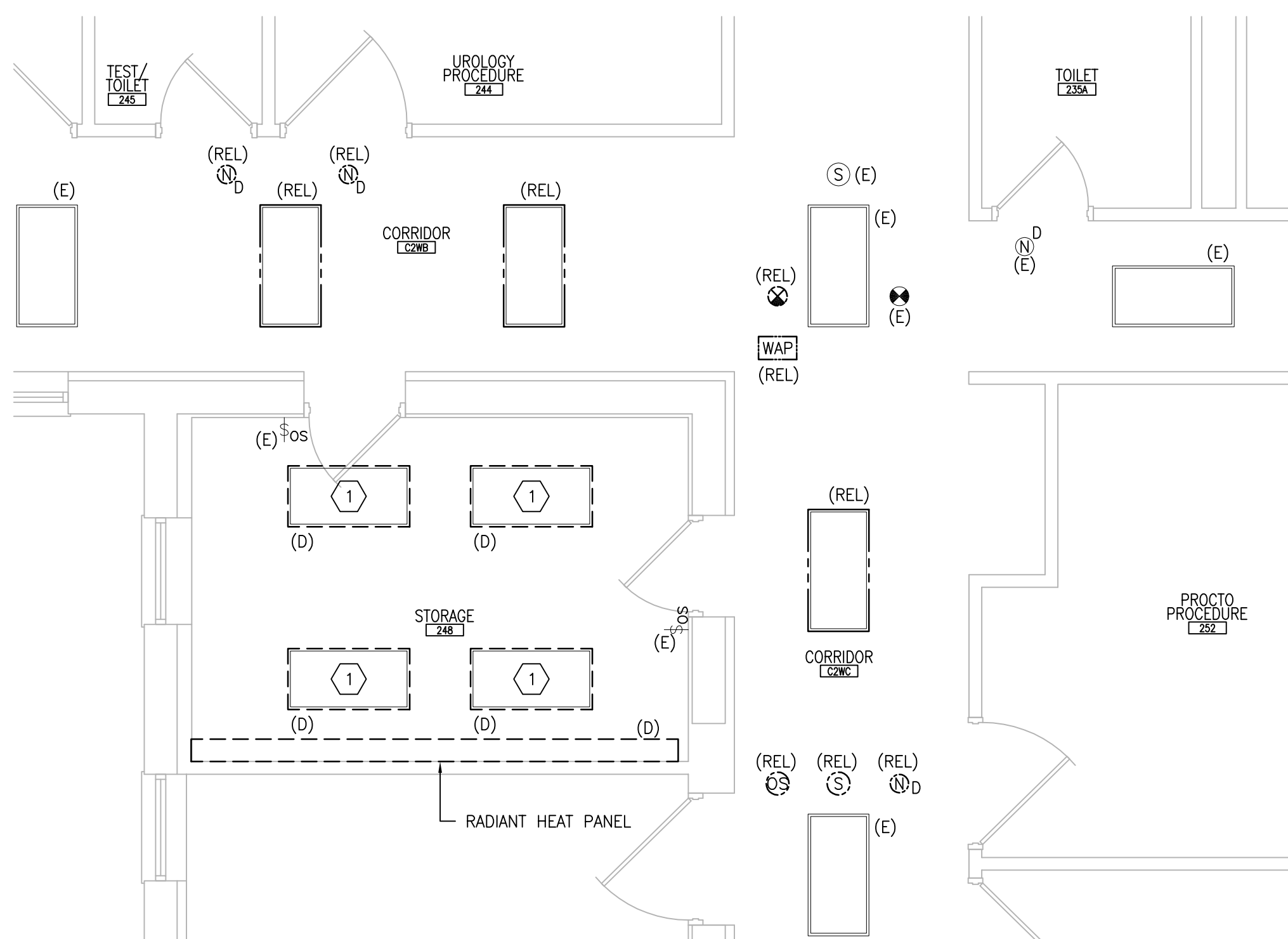
- DISCONNECT AND REMOVE EXISTING LIGHTING CIRCUIT. PROTECT BRANCH CIRCUIT DURING CONSTRUCTION.
- PROVIDE NEW LIGHTING FIXTURE AND CONNECT TO EXISTING BRANCH CIRCUIT PREVIOUSLY FEEDING DEMOLISHED LIGHTING FIXTURE. CONNECT TO EXISTING ROOM LIGHTING CONTROLS. PROVIDE ADDITIONAL CONDUIT AND WIRING AS NEEDED.



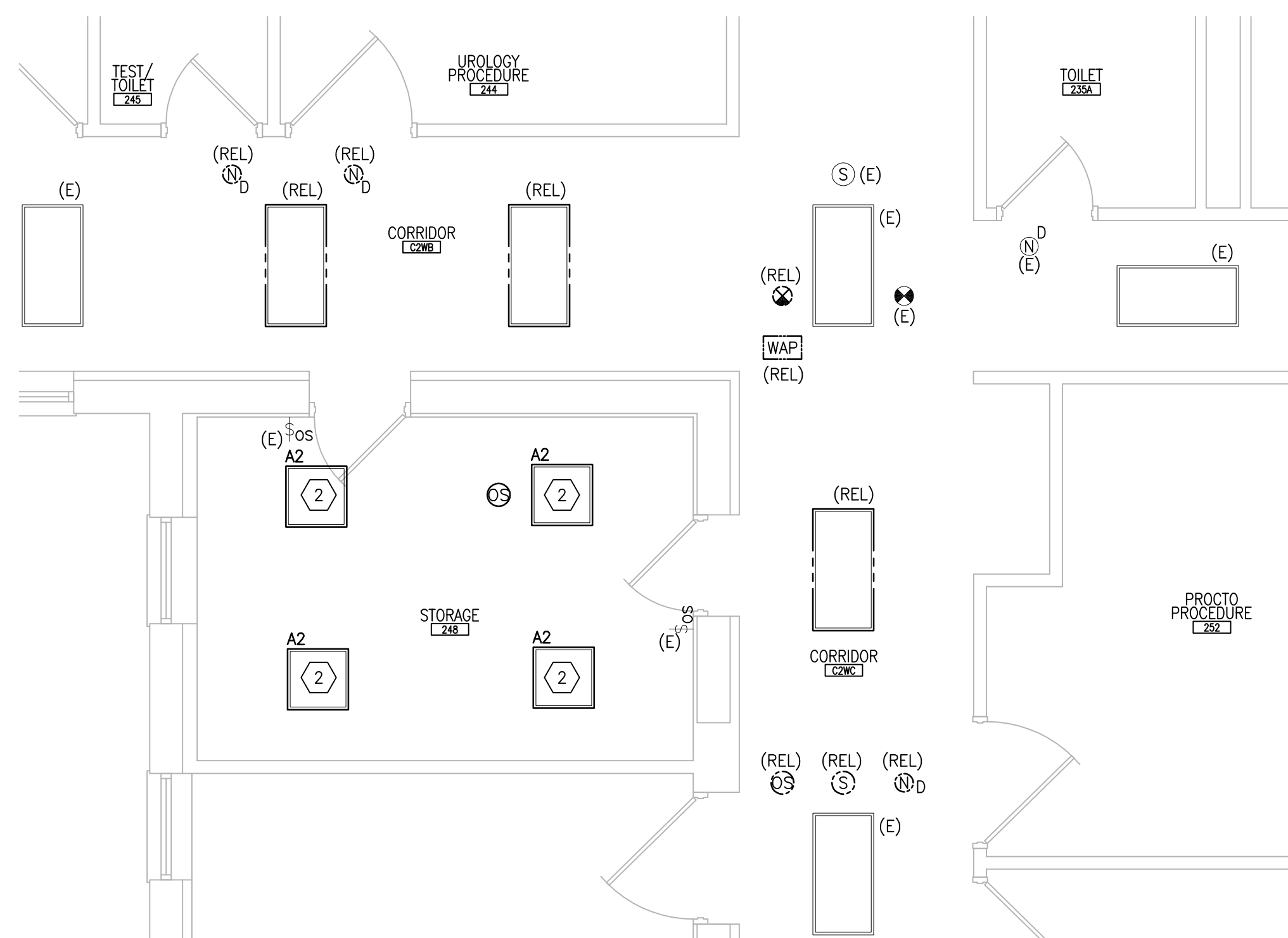
1 SECOND FLOOR ROOM 232 – DEMOLITION
SCALE: 1/4" = 1'-0"
REF DWG: 1-E-121



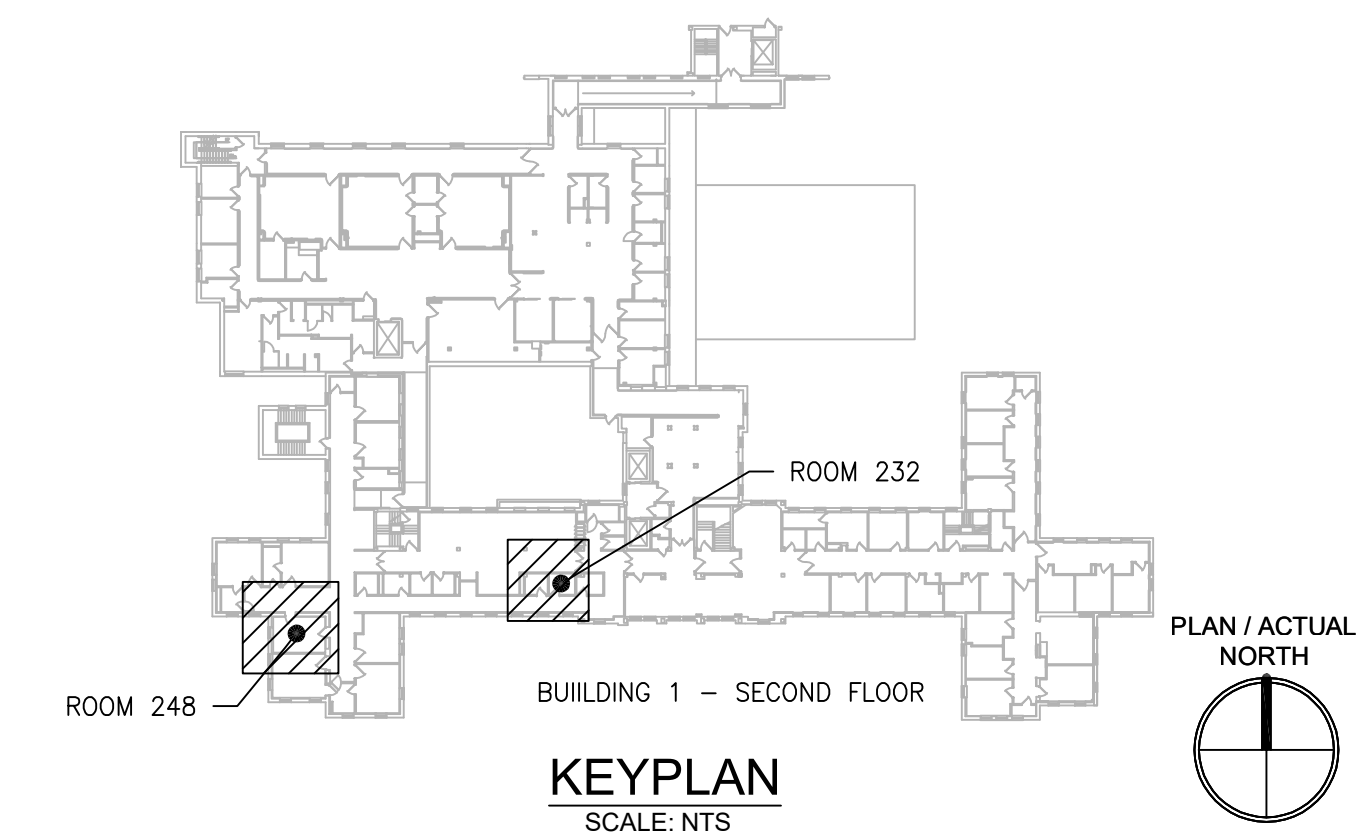
2 SECOND FLOOR ROOM 232 – NEW WORK
SCALE: 1/4" = 1'-0"
REF DWG: 1-E-121



3 SECOND FLOOR ROOM 248 – DEMOLITION
SCALE: 1/4" = 1'-0"
REF DWG: 1-E-121



4 SECOND FLOOR ROOM 248 – NEW WORK
SCALE: 1/4" = 1'-0"
REF DWG: 1-E-121



PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

NO.	DESCRIPTION	DATE

PROJECT TEAM

COMMISSIONER'S OFFICE
MEP Engineers + Architects
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FAX: (856)439-9002
MR PROJECT NO: 0376-0011

MILLER-REMICK LLC
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL SECOND FLOOR - DEMOLITION & NEW WORK PART PLANS

Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENTS
NOT FOR CONSTRUCTION

FULLY SPRINKLERED

Project Title
UPGRADE SPS HVAC & ENVIRONMENTAL CONTROLS

Location
ST. CLOUD VA MEDICAL CENTER, MN

Issue Date	Checked	Drawn
2022-07-15	RC	DR

Project Number
656-18-300

Building Number
1

Drawing Number
1-EP122

GENERAL SHEET NOTES:

- REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
- REFER TO SHEET 1-E-141 FOR LOCATION OF PANEL 1ECA.
- REFER TO SERIES E-700 SHEETS FOR PANELBOARD SCHEDULES AND LIGHTING FIXTURE SCHEDULE.
- REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK ASSOCIATED WITH CEILINGS.
- ADHERE TO ALL ICRA REQUIREMENTS LISTED ON 0101 AND IN SPECIFICATIONS. THE DIFFERENT WORK SPACES (ICRA LEVEL HAS BEEN DEFINED BY THE VA AS LEVEL 3 UNLESS OTHERWISE INDICATED. ALL EQUIPMENT IN THE ROOM SHALL BE PROTECTED FROM DUST, DEBRIS AND PHYSICAL DAMAGE AT ALL TIMES.
- AVOID CEILING-MOUNTED AND WALL-MOUNTED DEVICES (I.E. SIGNAGE, LIGHTING FIXTURE, FIRE ALARM, NURSE CALL, WAFS, ETC.) WHEN LOCATING ICRA WALLS. WHERE DEVICES CANNOT BE AVOIDED, THE CONTRACTOR SHALL TEMPORARILY RELOCATE THE DEVICE AND REINSTALL AT ORIGINAL LOCATION AFTER REMOVAL OF ICRA WALL.
- REFER TO SPECIFICATION 02 82 11 APPENDIX A1 FOR ABATEMENT REPORT. THE CONTRACTOR SHALL ADHERE TO AND FOLLOW THE ABATEMENT REPORT FOR ALL KNOWN ABATEMENT LOCATIONS.
- COORDINATE ACCESS PROCEDURES, PROTECTION OF EXISTING RME STORAGE RACKS/EQUIPMENT, CLEANUP AND WORK HOURS WITH THE VA.
- REFER TO MECHANICAL AND PIPING DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND ROUTING OF PIPING/DUCT WORK.
- DEVICE/LIGHTING FIXTURE LABELED AS (REL) SHALL BE DISCONNECTED AND REMOVED DURING CONSTRUCTION. UPON INSTALLATION OF NEW CEILING IN THE SPACE, RE-INSTALL AND CONNECT EXISTING DEVICE/LIGHTING FIXTURE. PROTECT WIRING AND DEVICE/LIGHTING FIXTURE DURING CONSTRUCTION.

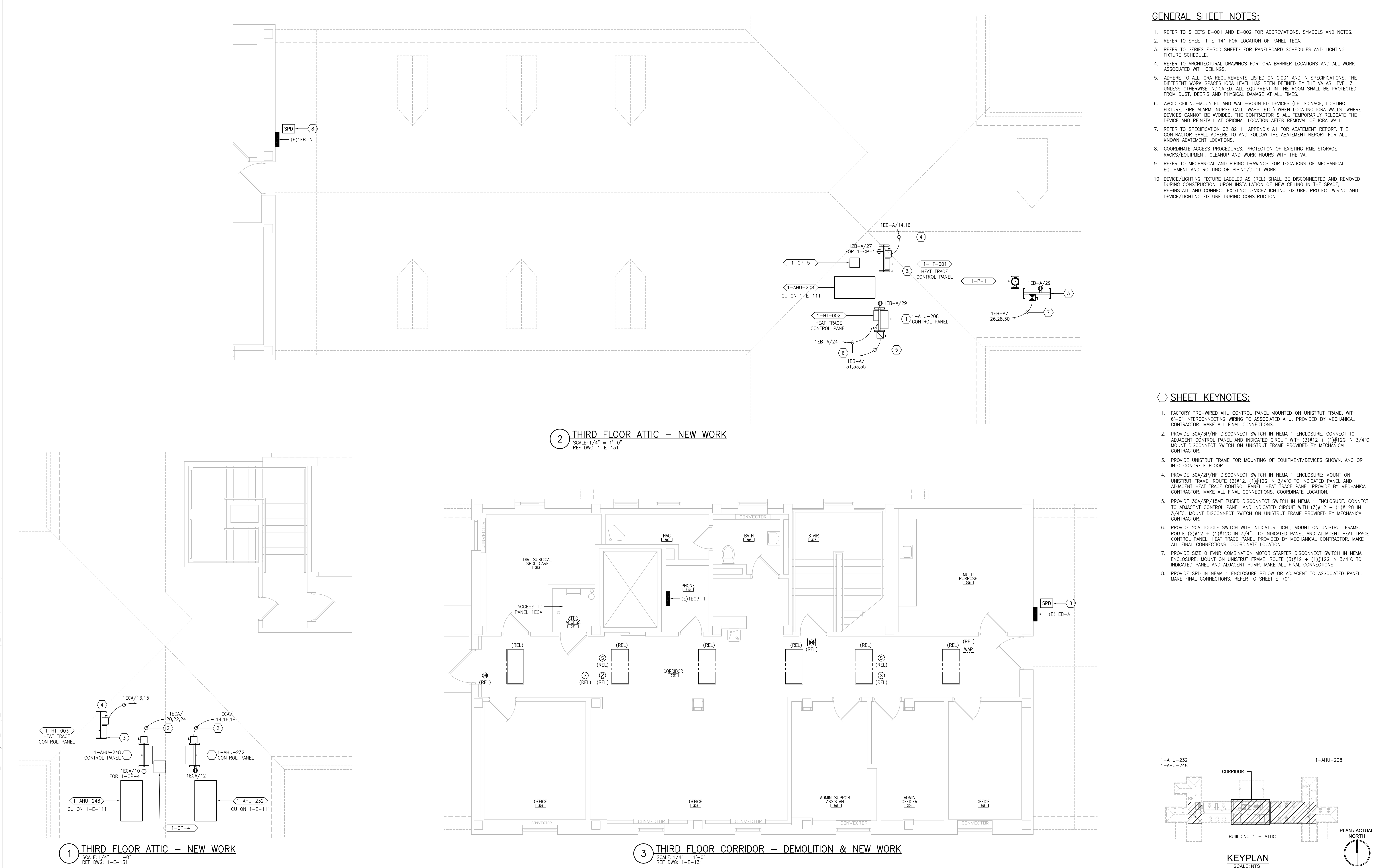
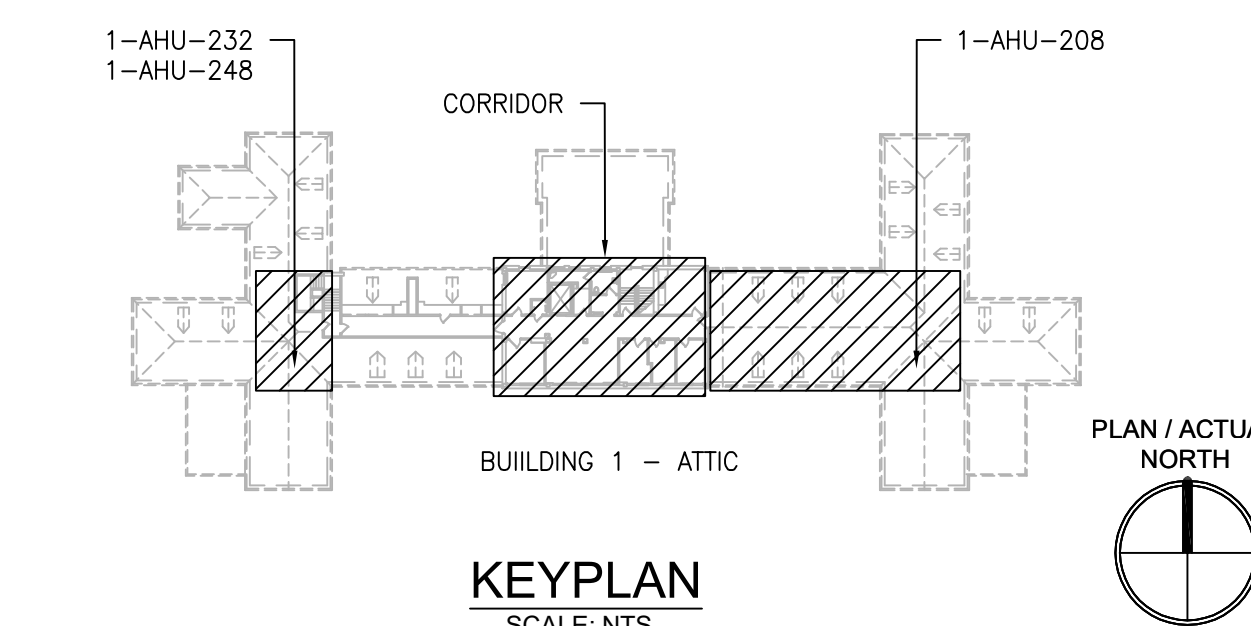
SHEET KEYNOTES:

- FACTORY PRE-WIRED AHU CONTROL PANEL MOUNTED ON UNISTRUT FRAME, WITH 6"-0" INTERCONNECTING WIRING TO ASSOCIATED AHU, PROVIDED BY MECHANICAL CONTRACTOR. MAKE ALL FINAL CONNECTIONS.
- PROVIDE 30A/3P/NF DISCONNECT SWITCH IN NEMA 1 ENCLOSURE. CONNECT TO ADJACENT CONTROL PANEL AND INDICATED CIRCUIT WITH (3)#12 + (1)#12G IN 3/4" C. MOUNT DISCONNECT SWITCH ON UNISTRUT FRAME PROVIDED BY MECHANICAL CONTRACTOR.
- PROVIDE UNISTRUT FRAME FOR MOUNTING OF EQUIPMENT/DEVICES SHOWN. ANCHOR INTO CONCRETE FLOOR.
- PROVIDE 30A/2P/NF DISCONNECT SWITCH IN NEMA 1 ENCLOSURE; MOUNT ON UNISTRUT FRAME. ROUTE (2)#12, (1)#12G IN 3/4" C TO INDICATED PANEL AND ADJACENT HEAT TRACE CONTROL PANEL. HEAT TRACE PANEL PROVIDED BY MECHANICAL CONTRACTOR. MAKE ALL FINAL CONNECTIONS. COORDINATE LOCATION.
- PROVIDE 30A/3P/15AF FUSED DISCONNECT SWITCH IN NEMA 1 ENCLOSURE. CONNECT TO ADJACENT CONTROL PANEL AND INDICATED CIRCUIT WITH (3)#12 + (1)#12G IN 3/4" C. MOUNT DISCONNECT SWITCH ON UNISTRUT FRAME PROVIDED BY MECHANICAL CONTRACTOR.
- PROVIDE 20A TOGGLE SWITCH WITH INDICATOR LIGHT; MOUNT ON UNISTRUT FRAME. ROUTE (2)#12 + (1)#12G IN 3/4" C TO INDICATED PANEL AND ADJACENT HEAT TRACE CONTROL PANEL. HEAT TRACE PANEL PROVIDED BY MECHANICAL CONTRACTOR. MAKE ALL FINAL CONNECTIONS. COORDINATE LOCATION.
- PROVIDE SIZE 0 FAN COMBINATION MOTOR STARTER DISCONNECT SWITCH IN NEMA 1 ENCLOSURE; MOUNT ON UNISTRUT FRAME. ROUTE (3)#12 + (1)#12G IN 3/4" C TO INDICATED PANEL AND ADJACENT PUMP. MAKE ALL FINAL CONNECTIONS.
- PROVIDE SPD IN NEMA 1 ENCLOSURE BELOW OR ADJACENT TO ASSOCIATED PANEL. MAKE FINAL CONNECTIONS. REFER TO SHEET E-701.

2 THIRD FLOOR ATTIC - NEW WORK
SCALE: 1/4" = 1'-0"
REF DWG: 1-E-131

3 THIRD FLOOR CORRIDOR - DEMOLITION & NEW WORK
SCALE: 1/4" = 1'-0"
REF DWG: 1-E-131

1 THIRD FLOOR ATTIC - NEW WORK
SCALE: 1/4" = 1'-0"
REF DWG: 1-E-131



PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

NO.	DESCRIPTION	DATE

PROJECT TEAM

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1173 Research Way
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1-866-267-6839

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(207) 828-4511
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PHONE: (856) 429-4000
FAX: (856) 429-9002
MR PROJECT NO: 0376-0011

MILLER-REMICK LLC
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL THIRD FLOOR ATTIC - DEMOLITION & NEW WORK PART PLANS

Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENTS
NOT FOR CONSTRUCTION

FULLY SPRINKLERED

Project Title
UPGRADE SPS HVAC & ENVIRONMENTAL CONTROLS

Project Number
656-18-300

Building Number
1

Drawing Number
1-EP131

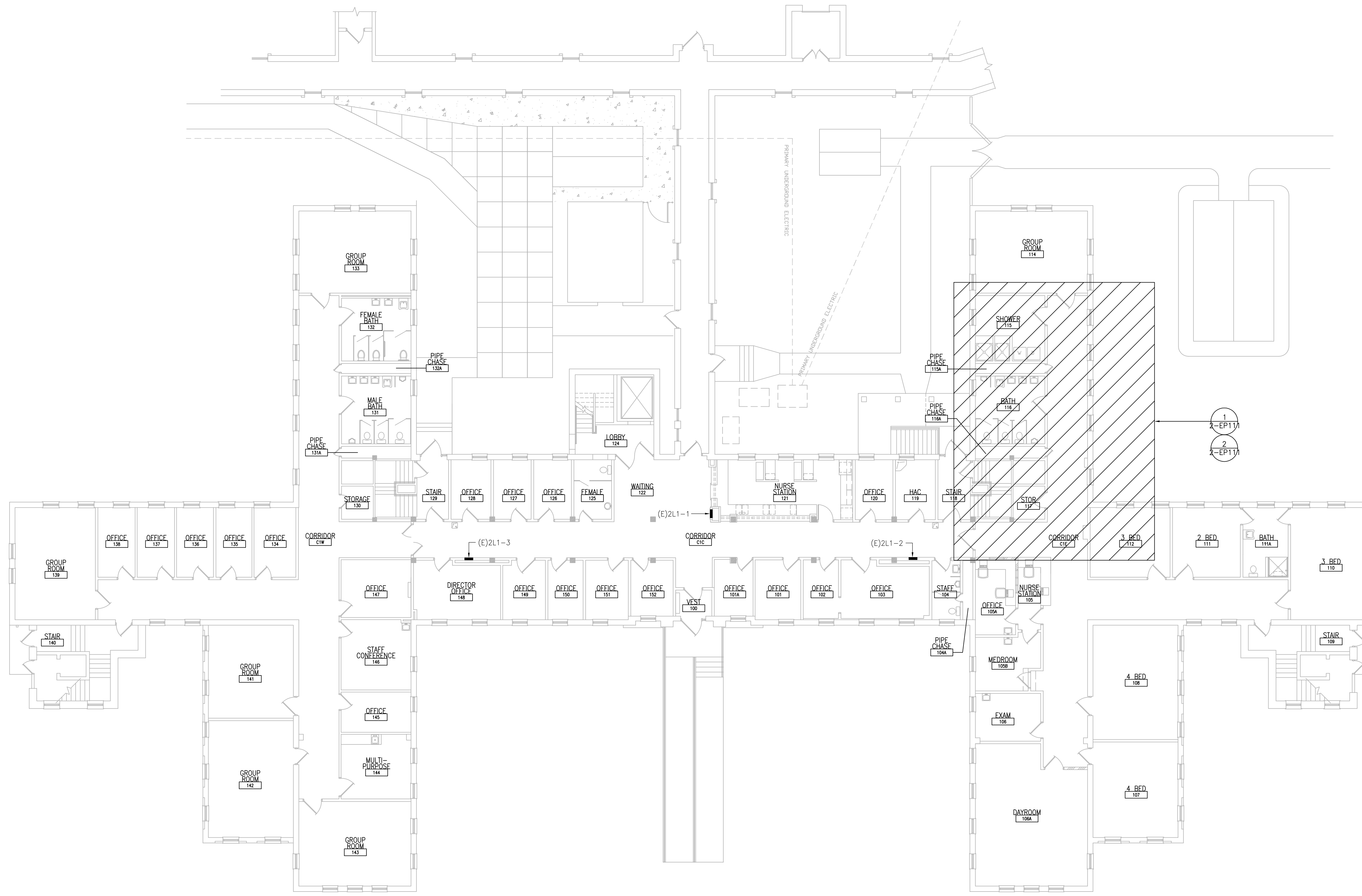
Location
ST. CLOUD VA MEDICAL CENTER, MN

Issue Date
2022-07-15

Checked RC	Drawn DR
---------------	-------------

GENERAL SHEET NOTES:

1. REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
2. REFER TO SERIES E-700 SHEETS FOR PANELBOARD SCHEDULES AND LIGHTING FIXTURE SCHEDULE.
3. REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK ASSOCIATED WITH CEILINGS.
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5. AVOID CEILING-MOUNTED AND WALL-MOUNTED DEVICES (I.E. SIGNAGE, LIGHTING FIXTURE, FIRE ALARM, NURSE CALL, WAFS, ETC.) WHEN LOCATING ICRA WALLS. WHERE DEVICES CANNOT BE AVOIDED, THE CONTRACTOR SHALL TEMPORARILY RELOCATE THE DEVICE AND REINSTALL AT ORIGINAL LOCATION AFTER REMOVAL OF ICRA WALL.
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7. COORDINATE ACCESS PROCEDURES, PROTECTION OF EXISTING RME STORAGE RACKS/EQUIPMENT, CLEANUP AND WORK HOURS WITH THE VA.



① FIRST FLOOR - POWER PLAN
SCALE: 3/32"=1'-0"
PLAN / ACTUAL NORTH

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

one eighth inch = one foot
one quarter inch = one foot
one half inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three eighths inch = one foot
three quarters inch = one foot
one and one half inches = one foot
three inches = one foot
three and one half inches = one foot
four inches = one foot
four and one half inches = one foot
five inches = one foot
five and one half inches = one foot
six inches = one foot
six and one half inches = one foot
seven inches = one foot
seven and one half inches = one foot
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ninety eight inches = one foot
ninety eight and one half inches = one foot
ninety nine inches = one foot
ninety nine and one half inches = one foot
one hundred inches = one foot

NO.	DESCRIPTION	DATE

PROJECT TEAM

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A Service Disabled Veteran Owned
Small Business
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MR PROJECT NO: 0376-0011

MILLER-REMICK LLC
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL FIRST FLOOR - POWER PLAN

Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENTS
NOT FOR CONSTRUCTION

FULLY SPRINKLERED

Project Title
UPGRADE SPS HVAC & ENVIRONMENTAL CONTROLS

Location
ST. CLOUD VA MEDICAL CENTER, MN

Issue Date
2022-07-15

Checked
RC

Drawn
DR

Project Number
656-18-300

Building Number
2

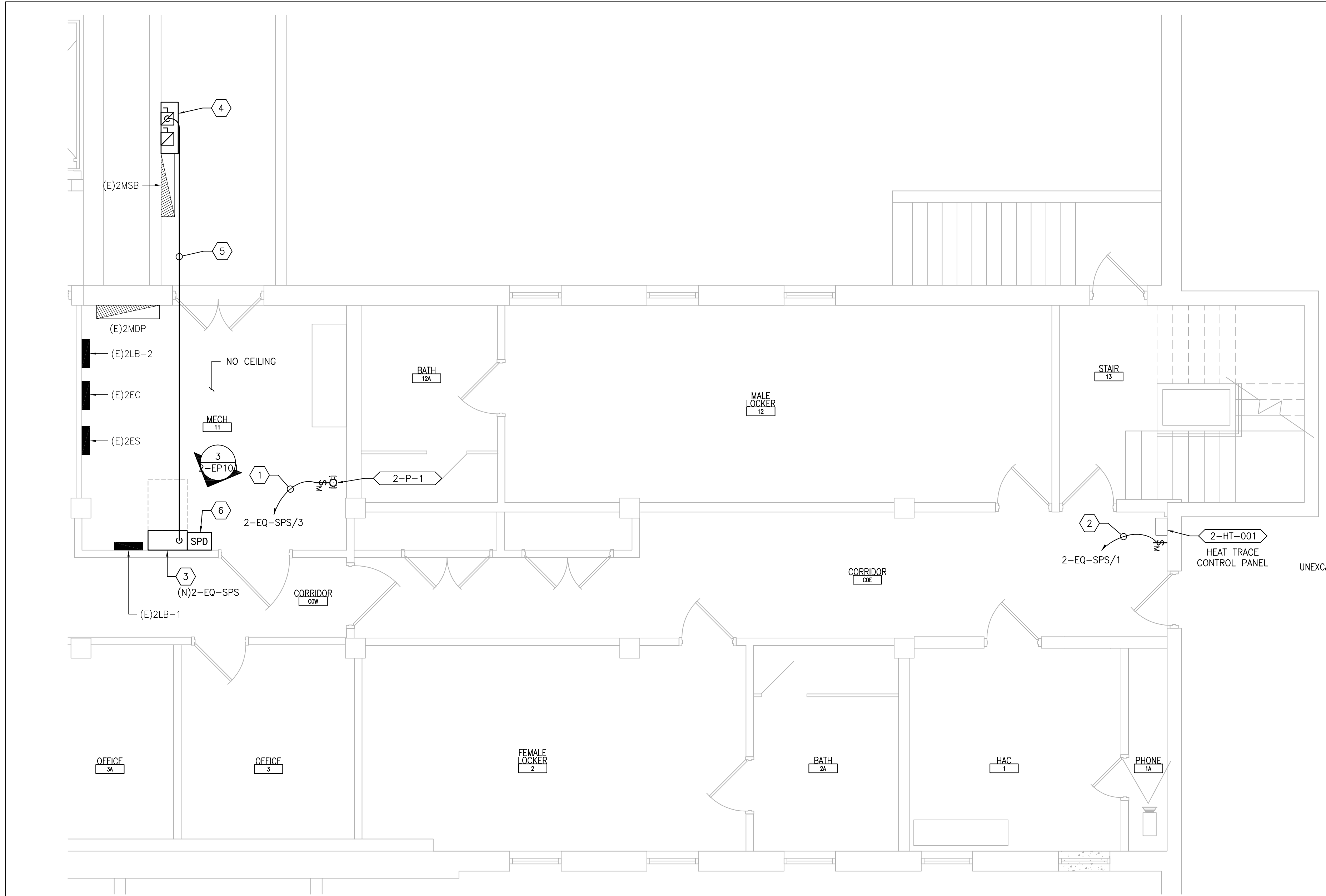
Drawing Number
2-E-111

GENERAL SHEET NOTES:

1. REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
2. REFER TO SERIES E-700 SHEETS FOR PANELBOARD SCHEDULES AND LIGHTING FIXTURE SCHEDULE.
3. REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK ASSOCIATED WITH CEILINGS.
4. ADHERE TO ALL ICRA REQUIREMENTS LISTED ON 01001 AND IN SPECIFICATIONS. THE DIFFERENT WORK SPACES ICRA LEVEL HAS BEEN DEFINED BY THE VA AS LEVEL 3 UNLESS OTHERWISE INDICATED. ALL EQUIPMENT IN THE ROOM SHALL BE PROTECTED FROM DUST, DEBRIS AND PHYSICAL DAMAGE AT ALL TIMES.
5. AVOID CEILING-MOUNTED AND WALL-MOUNTED DEVICES (I.E. SIGNAGE, LIGHTING FIXTURE, FIRE ALARM, NURSE CALL, WAFS, ETC.) WHEN LOCATING ICRA WALLS. WHERE DEVICES CANNOT BE AVOIDED, THE CONTRACTOR SHALL TEMPORARILY RELOCATE THE DEVICE AND REINSTALL AT ORIGINAL LOCATION AFTER REMOVAL OF ICRA WALL.
6. REFER TO SPECIFICATION 02 82 11 APPENDIX A1 FOR ABATEMENT REPORT. THE CONTRACTOR SHALL ADHERE TO AND FOLLOW THE ABATEMENT REPORT FOR ALL KNOWN ABATEMENT LOCATIONS.
7. COORDINATE ACCESS PROCEDURES, PROTECTION OF EXISTING RME STORAGE RACKS/EQUIPMENT, CLEANUP AND WORK HOURS WITH THE VA.
8. REFER TO MECHANICAL AND PIPING DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND ROUTING OF PIPING/DUCT WORK.

SHEET KEYNOTES:

1. PROVIDE MOTOR-RATED SWITCH WITH INDICATOR LIGHT. COORDINATE LOCATION. MAKE FINAL CONNECTIONS TO INDICATED CIRCUIT AND ADJACENT PUMP.
2. PROVIDE 20A TOGGLE SWITCH WITH INDICATOR LIGHT. MOUNT ON UNISTRUT FRAME. ROUTE (2)#12 + (1)#12G IN 3/4" TO INDICATED PANEL AND ADJACENT HEAT TRACE CONTROL PANEL. HEAT TRACE PANEL PROVIDED BY MECHANICAL CONTRACTOR. MAKE ALL FINAL CONNECTIONS. COORDINATE LOCATION.
3. RELOCATE EXISTING EQUIPMENT/DEVICES AND ASSOCIATE CONDUIT AND WIRING (AS SEEN IN DETAIL 3) AS NEEDED TO PROVIDE WALL SPACE FOR MINI UNIT SUBSTATION. PROVIDE MINI UNIT SUBSTATION 2-EQ-SPS AT SAME LOCATION. 2-EQ-SPS SHALL BE 15KVA RATED, 480V PRI, 3PH, 3W, 208Y/120V SEC, 3PH, 4W, 24 POLE PANEL. PROVIDE RED ENGRAVED LABEL WITH WHITE LETTERS "2-EQ-SPS". LABEL SHALL INCLUDE VOLTAGE, AMPERAGE, AIC RATING AND FEED SOURCE. COMPLY WITH NEC REQUIREMENTS FOR WORKING SPACE AND DEDICATED EQUIPMENT SPACE.
4. PROVIDE AUXILIARY GUTTER ADJACENT TO 2MSB, DISCONNECT SWITCHES, WIRING, AND CONDUIT AS REQUIRED TO PROVIDE POWER TO 2-EQ-SPS AND REFEED 2-LA-1 AS INDICATED IN DETAIL 2. PROVIDE GALVANIZED STEEL FRAME WITH GALVANIZED HARDWARE FOR MOUNTING OF AUXILIARY GUTTER ON WALL.
5. APPROXIMATE ROUTING OF NEW CONDUIT AND FEEDER FOR 2-EQ-SPS. MAKE ALL FINAL CONNECTIONS.
6. PROVIDE SPD IN NEMA 1 ENCLOSURE BELOW ASSOCIATED PANEL. MAKE FINAL CONNECTIONS. REFER TO SHEET E-701.

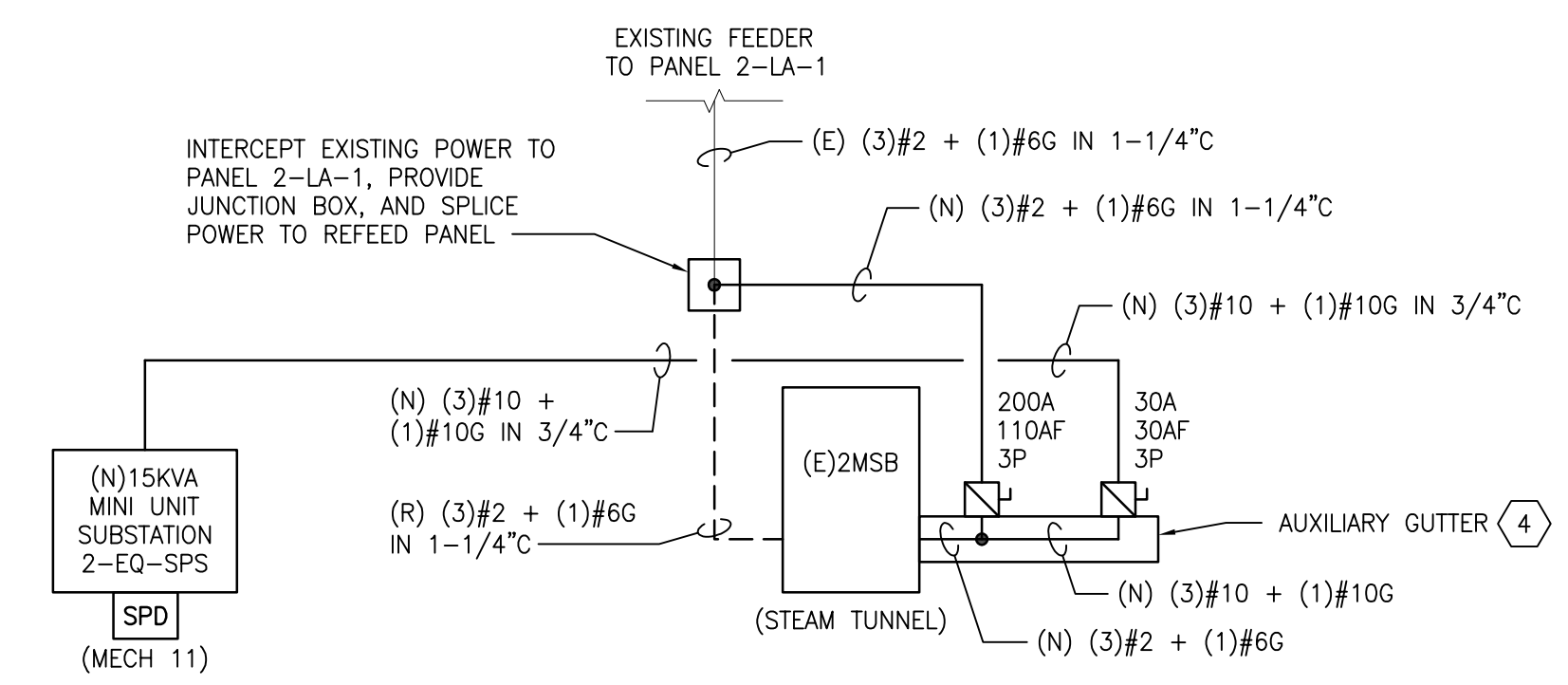


DANGER
CONTAINS ASBESTOS FIBERS
MAY CAUSE CANCER

CAUSES DAMAGE TO LUNGS
DO NOT BREATHE DUST
AVOID CREATING DUST

1 BASEMENT - NEW WORK PART PLAN
SCALE: 1/4" = 1'-0"
REF DWG: 2-E-101

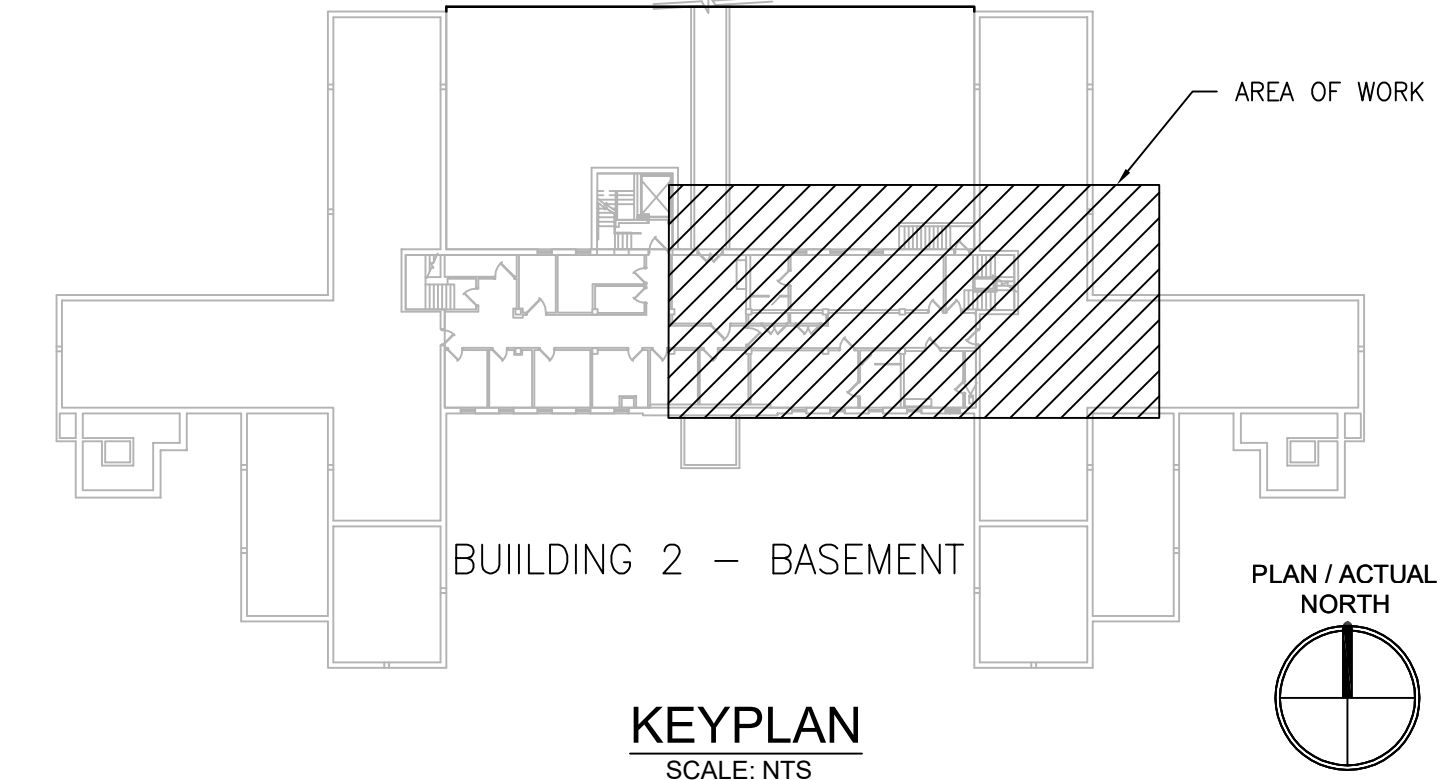
RELOCATE EXISTING COMMUNICATIONS EQUIPMENT AS REQUIRED TO ALLOW FOR INSTALLATION OF NEW MINI UNIT SUBSTATION 2-EQ-SPS.



2 MINI UNIT SUBSTATION RISER DIAGRAM
SCALE: NTS



3 MECH 11 COMMUNICATIONS EQUIPMENT
SCALE: NTS



KEYPLAN
SCALE: NTS

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

NO.	DESCRIPTION	DATE

PROJECT TEAM

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1173 Research Way
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1-866-267-6839

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(207) 828-4511
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M.E.P. & Structural Engineering
A Service Disabled Veteran Owned Small Business

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PHONE: (856)439-4000
FAX: (856)439-9002
MR PROJECT NO: 0376-0011

MILLER-REMICK LLC
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL BASEMENT - NEW WORK PART PLAN

Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENTS
NOT FOR CONSTRUCTION

FULLY SPRINKLERED

Project Title
UPGRADE SPS HVAC & ENVIRONMENTAL CONTROLS

Location
ST. CLOUD VA MEDICAL CENTER, MN

Issue Date	Checked	Drawn
2022-07-15	RC	DR

Project Number
656-18-300

Building Number
2

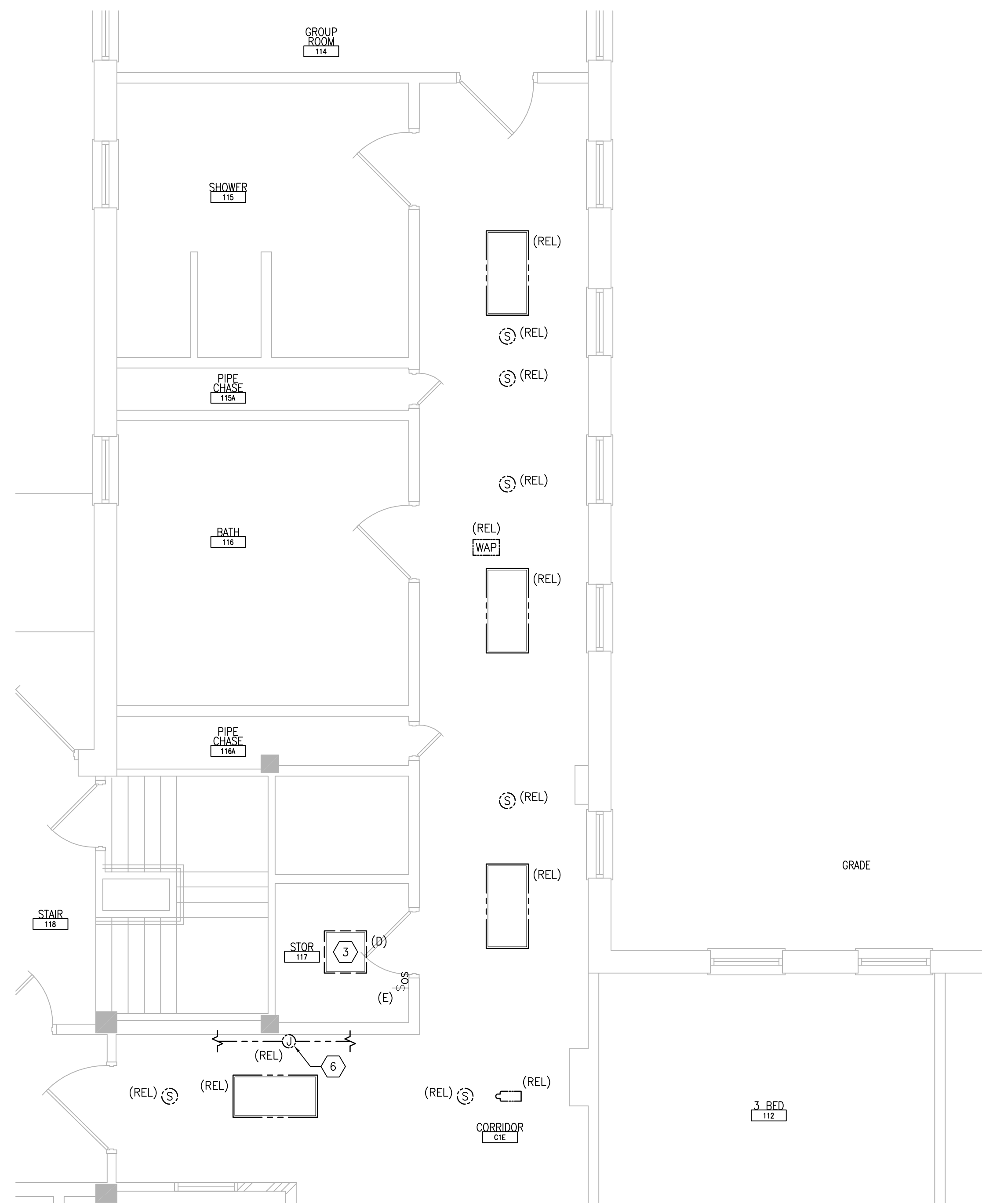
Drawing Number
2-EP101

GENERAL SHEET NOTES:

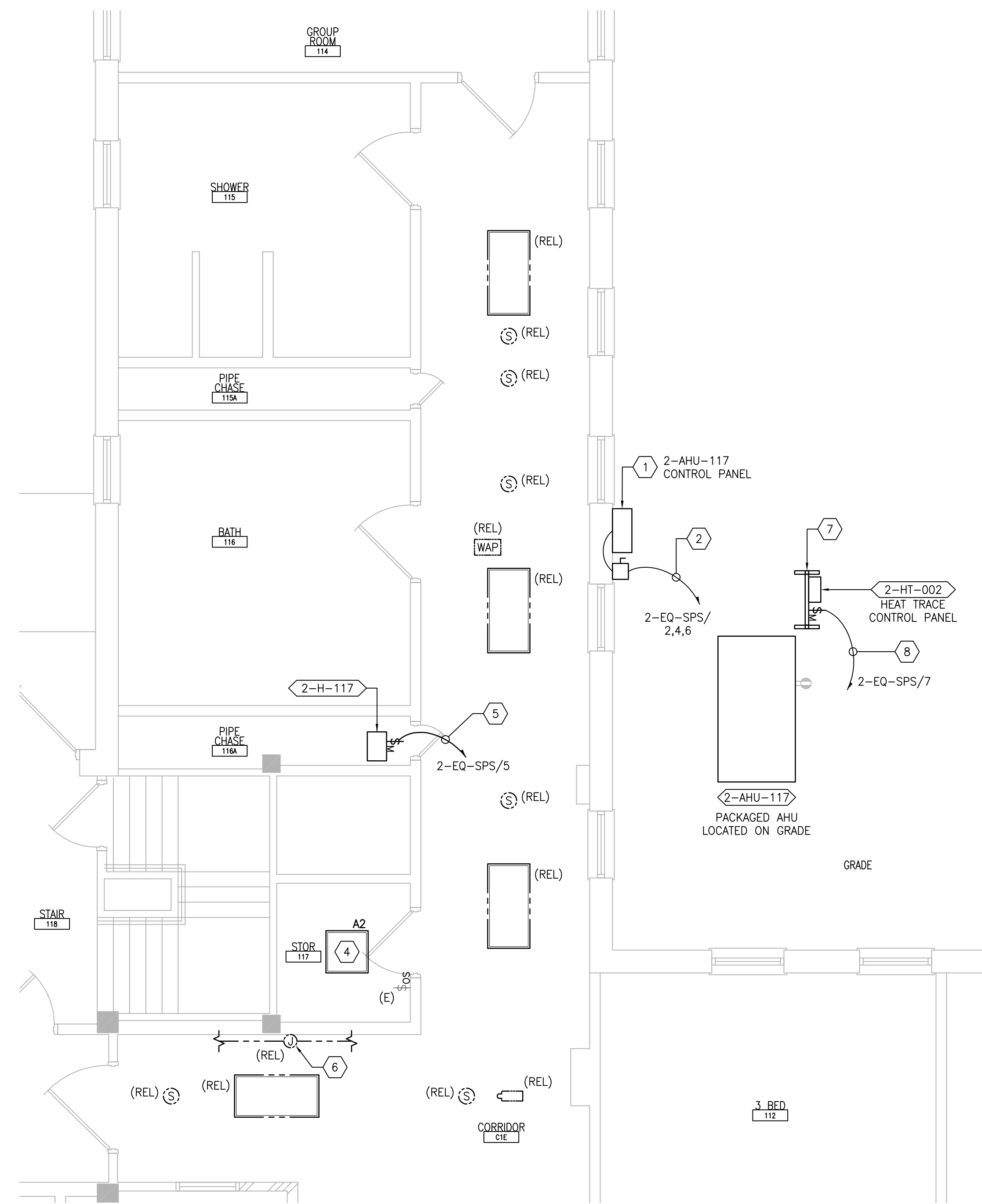
- REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
- REFER TO SHEET 2-EP101 FOR LOCATION OF PANEL 2-EQ-SPS.
- REFER TO SHEET 2-E-111 FOR LOCATION OF PANELBOARDS ON FLOOR.
- REFER TO SERIES E-700 SHEETS FOR PANELBOARD SCHEDULES AND LIGHTING FIXTURE SCHEDULE.
- REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK ASSOCIATED WITH CEILINGS.
- ADHERE TO ALL ICRA REQUIREMENTS LISTED ON G1001 AND IN SPECIFICATIONS. THE DIFFERENT WORK SPACES ICRA LEVEL HAS BEEN DEFINED BY THE VA AS LEVEL 3 UNLESS OTHERWISE INDICATED. ALL EQUIPMENT IN THE ROOM SHALL BE PROTECTED FROM DUST, DEBRIS AND PHYSICAL DAMAGE AT ALL TIMES.
- AVOID CEILING-MOUNTED AND WALL-MOUNTED DEVICES (I.E. SIGNAGE, LIGHTING FIXTURE, FIRE ALARM, NURSE CALL, WAPS, ETC.) WHEN LOCATING ICRA WALLS. WHERE DEVICES CANNOT BE AVOIDED, THE CONTRACTOR SHALL TEMPORARILY RELOCATE THE DEVICE AND REINSTALL AT ORIGINAL LOCATION AFTER REMOVAL OF ICRA WALL.
- REFER TO SPECIFICATION 02 82 11 APPENDIX A1 FOR ABATEMENT REPORT. THE CONTRACTOR SHALL ADHERE TO AND FOLLOW THE ABATEMENT REPORT FOR ALL KNOWN ABATEMENT LOCATIONS.
- COORDINATE ACCESS PROCEDURES, PROTECTION OF EXISTING RME STORAGE RACKS/EQUIPMENT, CLEANUP AND WORK HOURS WITH THE VA.
- REFER TO MECHANICAL AND PIPING DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND ROUTING OF PIPING/DUCT WORK.
- DEVICE/LIGHTING FIXTURE LABELED AS (REL) SHALL BE DISCONNECTED AND REMOVED DURING CONSTRUCTION. UPON INSTALLATION OF NEW CEILING IN THE SPACE, RE-INSTALL AND CONNECT EXISTING DEVICE/LIGHTING FIXTURE. PROTECT WIRING AND DEVICE/LIGHTING FIXTURE DURING CONSTRUCTION.
- OCCUPANCY SENSOR WALL SWITCH SHOWN ON DRAWING SHALL BE CONNECTED TO NEW LIGHTING FIXTURE(S) WITHIN THE SAME SPACE.
- CONDENSING UNITS AND PACKAGED AHU'S; UNITS ARE PROVIDED WITH A FACTORY WIRED 120V RECEPTACLE SHOWN IN GRAY-SCALE (FOR REFERENCE ONLY).

SHEET KEYNOTES:

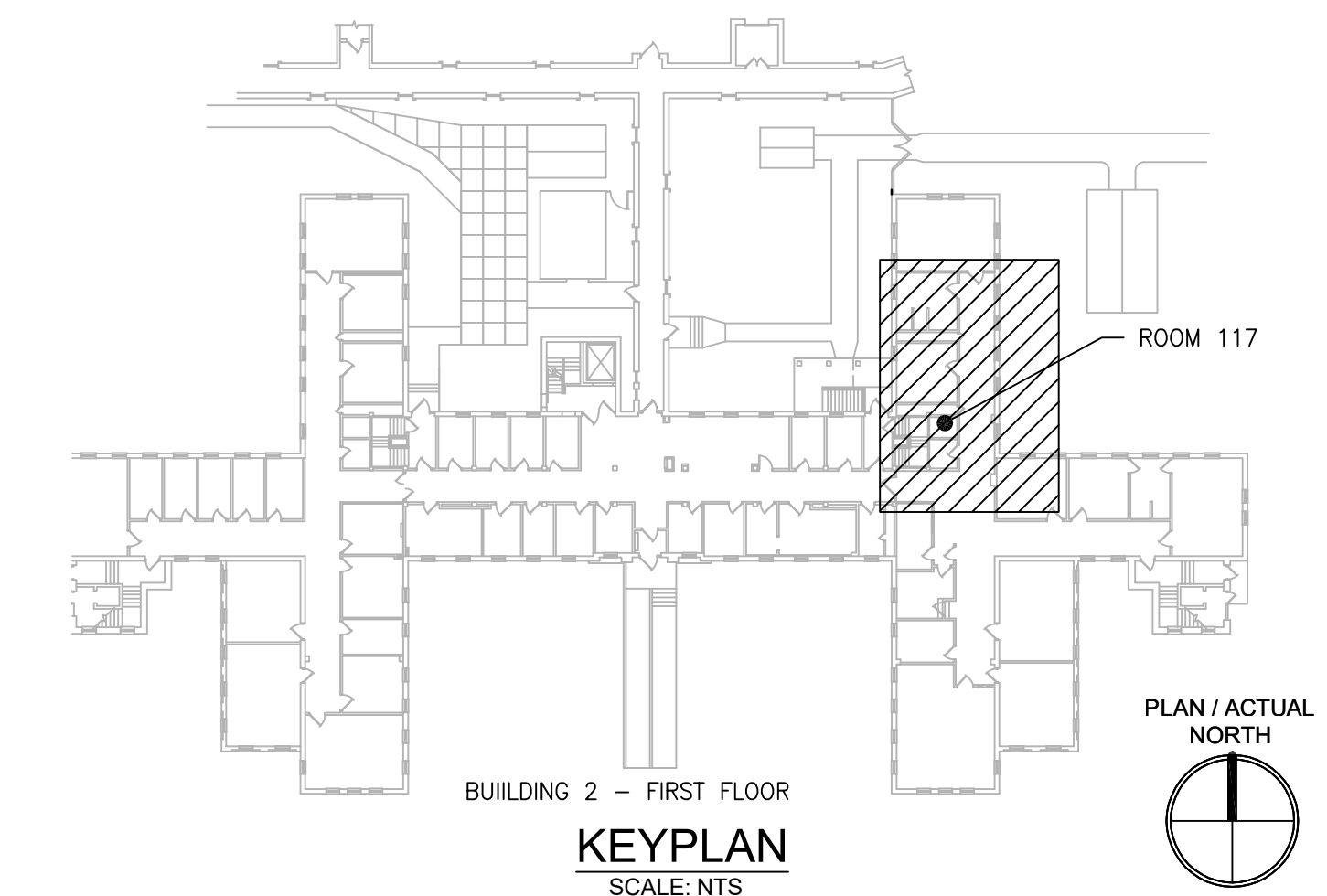
- FACTORY PRE-WIRED AHU CONTROL PANEL MOUNTED ON UNISTRUT FRAME, WITH 6"-0" INTERCONNECTING WIRING TO ASSOCIATED AHU, PROVIDED BY MECHANICAL CONTRACTOR. MAKE ALL FINAL CONNECTIONS.
- PROVIDE 30A/3P/NF DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. CONNECT TO ADJACENT CONTROL PANEL AND INDICATED CIRCUIT WITH (3)#8 + (1)#10G IN 3/4" CORE DRILL FLOOR SLAB TO FEED NEW CIRCUITS FROM PANEL IN BASEMENT BELOW.
- DISCONNECT AND REMOVE EXISTING LIGHTING CIRCUIT. PROTECT BRANCH CIRCUIT DURING CONSTRUCTION.
- PROVIDE NEW LIGHTING FIXTURE AND CONNECT TO EXISTING BRANCH CIRCUIT. PREVIOUSLY FEEDING DEMOLISHED LIGHTING FIXTURE. CONNECT TO EXISTING ROOM LIGHTING CONTROLS. PROVIDE ADDITIONAL CONDUIT AND WIRING AS NEEDED.
- PROVIDE 20A TOGGLE SWITCH WITH INDICATOR LIGHT. ROUTE (2)#8 + (1)#8G IN 3/4" TO INDICATED PANEL AND ADJACENT HUMIDIFIER. MAKE FINAL CONNECTIONS. CORE DRILL FLOOR SLAB TO FEED NEW CIRCUITS FROM PANEL IN BASEMENT BELOW.
- RELOCATE EXISTING JUNCTION BOX (FED FROM PANEL 2-L1-2, CIRCUIT 7), WIRING AND CONDUITS (QUANTITY OF 3) INSTALLED ABOVE CEILING AS REQUIRED TO ALLOW FOR INSTALLATION OF NEW DUCTWORK. COORDINATE NEW ROUTING WITH MECHANICAL CONTRACTOR.
- PROVIDE UNISTRUT FRAME FOR MOUNTING OF EQUIPMENT/DEVICES SHOWN. ANCHOR INTO GRADE.
- PROVIDE 20A TOGGLE SWITCH WITH INDICATOR LIGHT IN NEMA 3R ENCLOSURE; MOUNT ON UNISTRUT FRAME. ROUTE (2)#10 + (1)#10G IN 3/4" TO INDICATED PANEL AND ADJACENT HEAT TRACE CONTROL PANEL. HEAT TRACE CONTROL PANEL PROVIDED BY MECHANICAL CONTRACTOR. MAKE ALL FINAL CONNECTIONS. COORDINATE LOCATION.



1 FIRST FLOOR ROOM 117 - DEMOLITION
SCALE: 1/4" = 1'-0"
REF DWG: 2-E-111




2 FIRST FLOOR ROOM 117 - NEW WORK
SCALE: 1/4" = 1'-0"
REF DWG: 2-E-111



PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

NO.	DESCRIPTION	DATE

PROJECT TEAM


MEP Engineers + Architects
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 1-866-267-6839


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 FAX: (856)439-9002
 MR PROJECT NO: 0376-0011

MILLER-REMICK LLC
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management
 U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL FIRST FLOOR - DEMOLITION & NEW WORK PART PLANS

Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENTS
NOT FOR CONSTRUCTION

FULLY SPRINKLERED

Project Title
UPGRADE SPS HVAC & ENVIRONMENTAL CONTROLS

Location
ST. CLOUD VA MEDICAL CENTER, MN

Issue Date
2022-07-15

Checked
RC

Drawn
DR

Project Number
656-18-300

Building Number
2

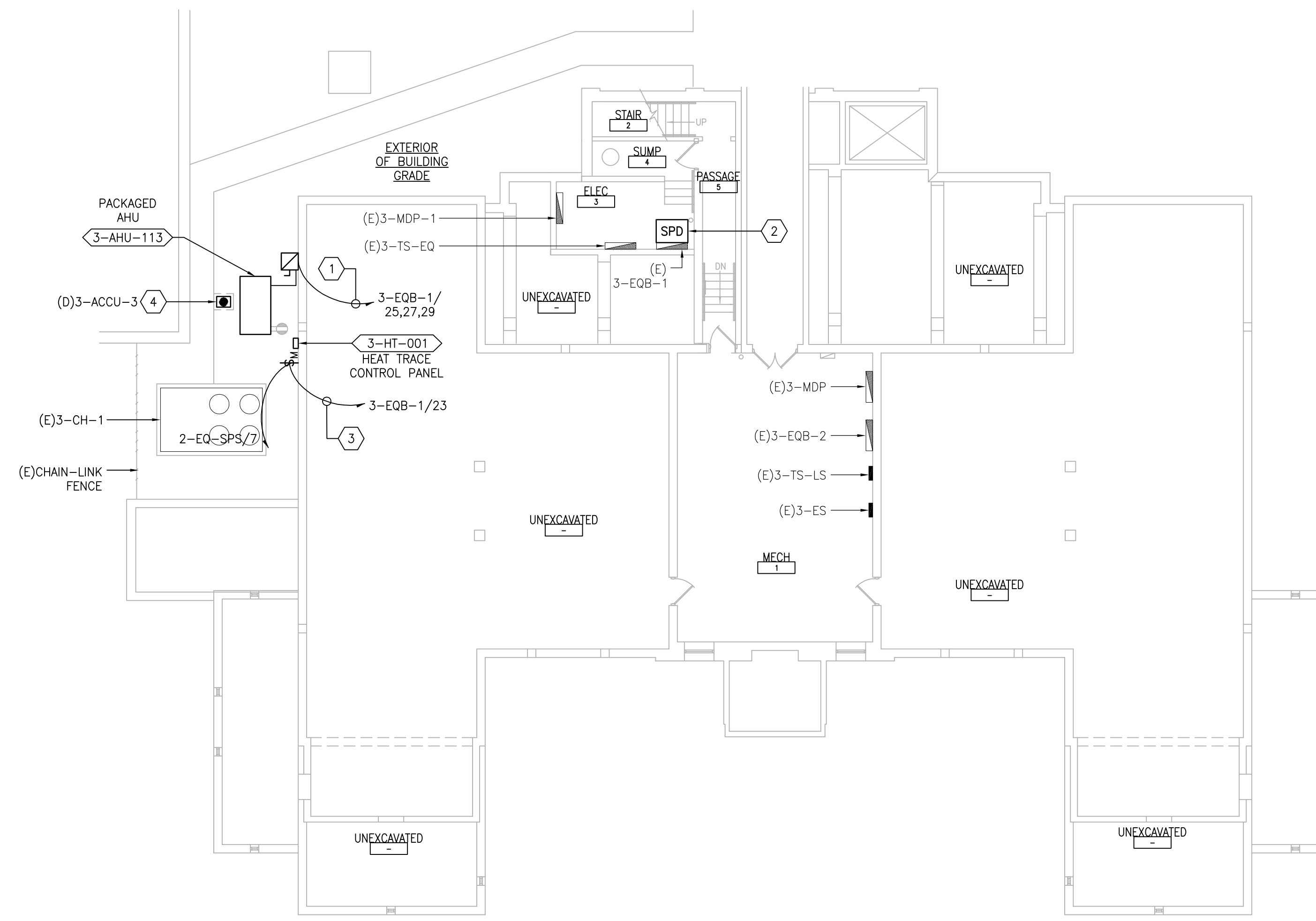
Drawing Number
2-EP111

GENERAL SHEET NOTES:

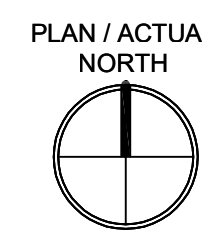
- REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
- REFER TO SERIES E-700 SHEETS FOR PANELBOARD SCHEDULES AND LIGHTING FIXTURE SCHEDULE.
- REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK ASSOCIATED WITH CEILINGS.
- ADHERE TO ALL ICRA REQUIREMENTS LISTED ON C1001 AND IN SPECIFICATIONS. THE DIFFERENT WORK SPACES ICRA LEVEL HAS BEEN DEFINED BY THE VA AS LEVEL 3 UNLESS OTHERWISE INDICATED. ALL EQUIPMENT IN THE ROOM SHALL BE PROTECTED FROM DUST, DEBRIS AND PHYSICAL DAMAGE AT ALL TIMES.
- AVOID CEILING-MOUNTED AND WALL-MOUNTED DEVICES (I.E. SIGNAGE, LIGHTING FIXTURE, FIRE ALARM, NURSE CALL, WAPS, ETC.) WHEN LOCATING ICRA WALLS. WHERE DEVICES CANNOT BE AVOIDED, THE CONTRACTOR SHALL TEMPORARILY RELOCATE THE DEVICE AND REINSTALL AT ORIGINAL LOCATION AFTER REMOVAL OF ICRA WALL.
- REFER TO SPECIFICATION 02 82 11 APPENDIX A1 FOR ABATEMENT REPORT. THE CONTRACTOR SHALL ADHERE TO AND FOLLOW THE ABATEMENT REPORT FOR ALL KNOWN ABATEMENT LOCATIONS.
- COORDINATE ACCESS PROCEDURES, PROTECTION OF EXISTING RME STORAGE RACKS/EQUIPMENT, CLEANUP AND WORK HOURS WITH THE VA.
- REFER TO MECHANICAL AND PIPING DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND ROUTING OF PIPING/DUCT WORK.
- CONDENSING UNITS AND PACKAGED AHU'S; UNITS ARE PROVIDED WITH A FACTORY WIRED 120V RECEPTACLE SHOWN IN GRAY-SCALE (FOR REFERENCE ONLY).

SHEET KEYNOTES:

- PROVIDE 30A/3P/30AF FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. CONNECT TO AHU AND INDICATED CIRCUIT WITH (3) #10 + (1) #100 IN 3/4" CD. PROVIDE GALVANIZED STEEL FRAME WITH GALVANIZED HARDWARE FOR MOUNTING OF DISCONNECT SWITCH ON WALL.
- PROVIDE SPD IN NEMA 1 ENCLOSURE BELOW OR ADJACENT TO ASSOCIATED PANEL. MAKE FINAL CONNECTIONS. REFER TO SHEET E-701.
- PROVIDE 20A TOGGLE SWITCH WITH INDICATOR LIGHT IN NEMA 3R ENCLOSURE. ROUTE (2) #12 + (1) #120 IN 3/4" CD TO INDICATED PANEL AND ADJACENT HEAT TRACE CONTROL PANEL. HEAT TRACE PANEL PROVIDED BY MECHANICAL CONTRACTOR. MAKE ALL FINAL CONNECTIONS. COORDINATE LOCATION.
- DISCONNECT AND REMOVE WIRING AND CONDUIT FOR EXISTING UNIT BACK TO SOURCE. REMOVE ALL ASSOCIATED ELECTRICAL DEVICES/EQUIPMENT. REFER TO 3-MH101 FOR ADDITIONAL INFORMATION.



1 BASEMENT - POWER PLAN
SCALE: 3/32"=1'-0"



PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

NO.	DESCRIPTION	DATE

PROJECT TEAM

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1-866-267-6839

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FAX: (856)439-9002
MR PROJECT NO: 0376-0011

MILLER-REMIK LLC
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL BASEMENT - POWER PLAN

Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENTS
NOT FOR CONSTRUCTION

FULLY SPRINKLERED

Project Title
UPGRADE SPS HVAC & ENVIRONMENTAL CONTROLS

Location
ST. CLOUD VA MEDICAL CENTER, MN

Issue Date
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Checked
RC

Drawn
DR

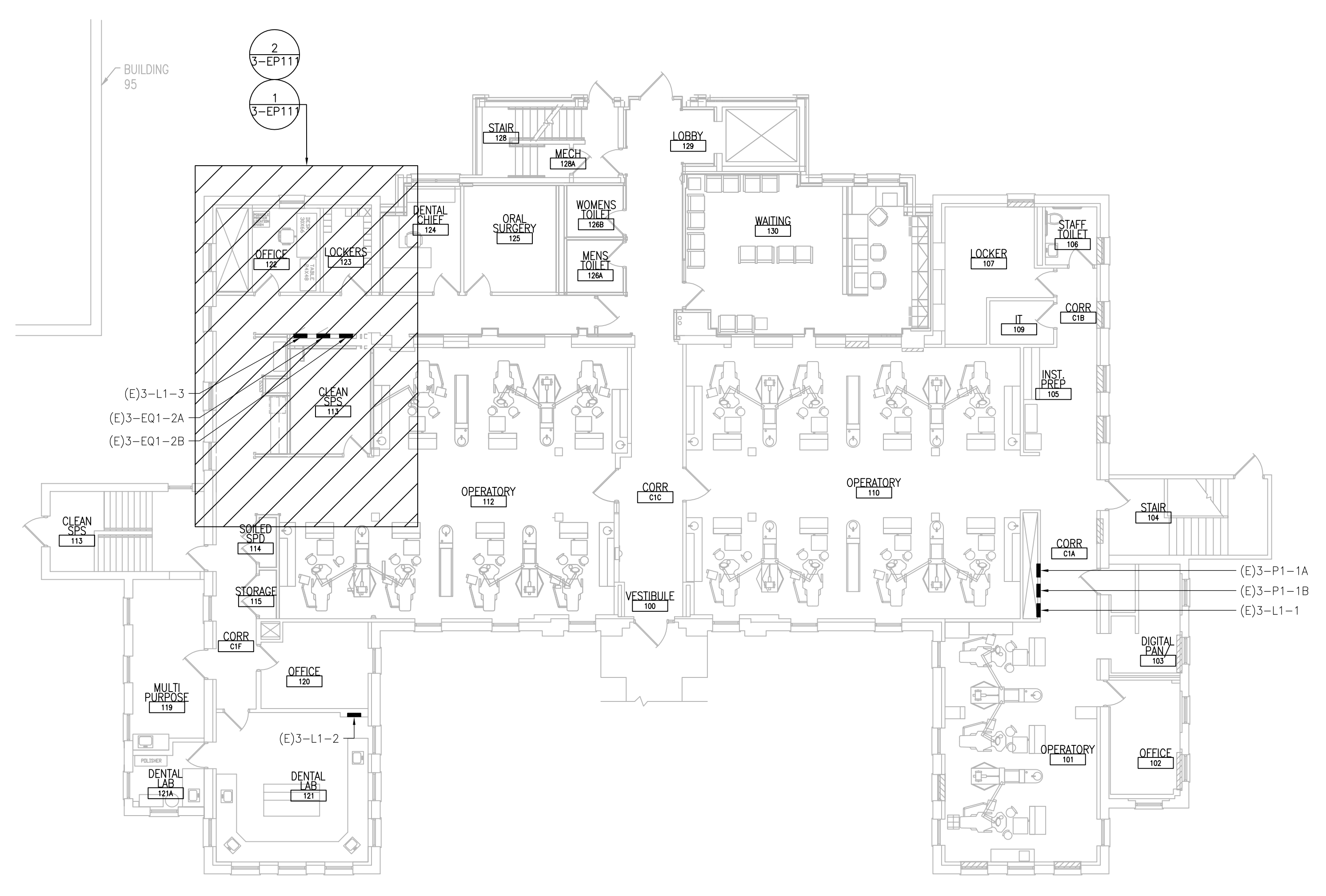
Project Number
656-18-300

Building Number
3

Drawing Number
3-E-101

GENERAL SHEET NOTES:

- REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
- REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK ASSOCIATED WITH CEILINGS.
- ADHERE TO ALL ICRA REQUIREMENTS LISTED ON G001 AND IN SPECIFICATIONS. THE DIFFERENT WORK SPACES ICRA LEVEL HAS BEEN DEFINED BY THE VA AS LEVEL 3 UNLESS OTHERWISE INDICATED. ALL EQUIPMENT IN THE ROOM SHALL BE PROTECTED FROM DUST, DEBRIS AND PHYSICAL DAMAGE AT ALL TIMES.
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- REFER TO MECHANICAL AND PIPING DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND ROUTING OF PIPING/DUCT WORK.



1 FIRST FLOOR - POWER PLAN
SCALE: 3/32"=1'-0"

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
three sixteenths inch = one foot
one sixteenth inch = one foot
one thirty second inch = one foot
one sixty fourth inch = one foot

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NO.	DESCRIPTION	DATE

PROJECT TEAM

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MR PROJECT NO: 0376-0011

MILLER-REMIK LLC
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL FIRST FLOOR - POWER PLAN

Approved: Project Director

Phase
100% CONSTRUCTION DOCUMENTS
NOT FOR CONSTRUCTION

FULLY SPRINKLERED

Project Title
UPGRADE SPS HVAC & ENVIRONMENTAL CONTROLS

Location
ST. CLOUD VA MEDICAL CENTER, MN

Issue Date	Checked	Drawn
2022-07-15	RC	DR

Project Number
656-18-300

Building Number
3

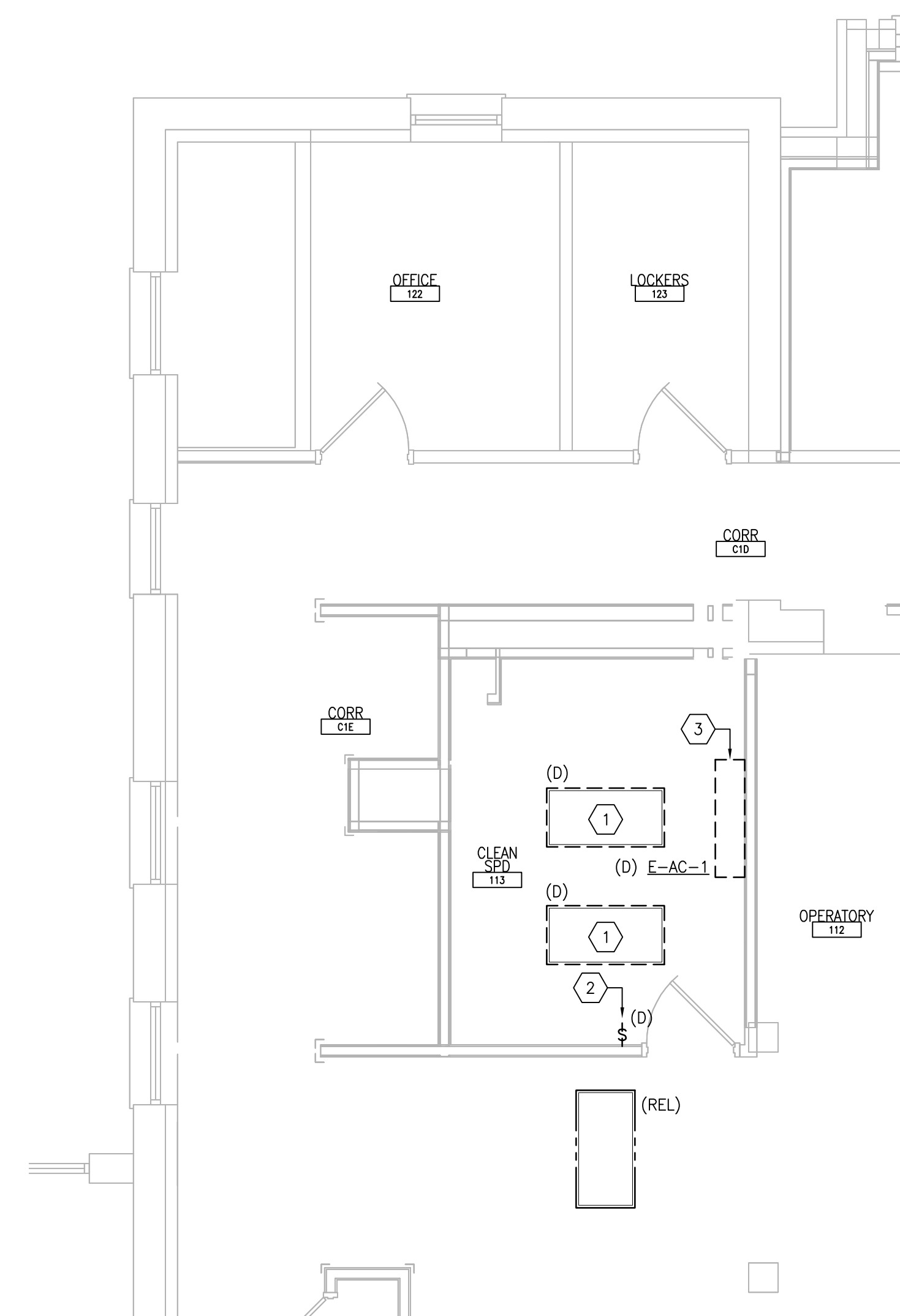
Drawing Number
3-E-111

GENERAL SHEET NOTES:

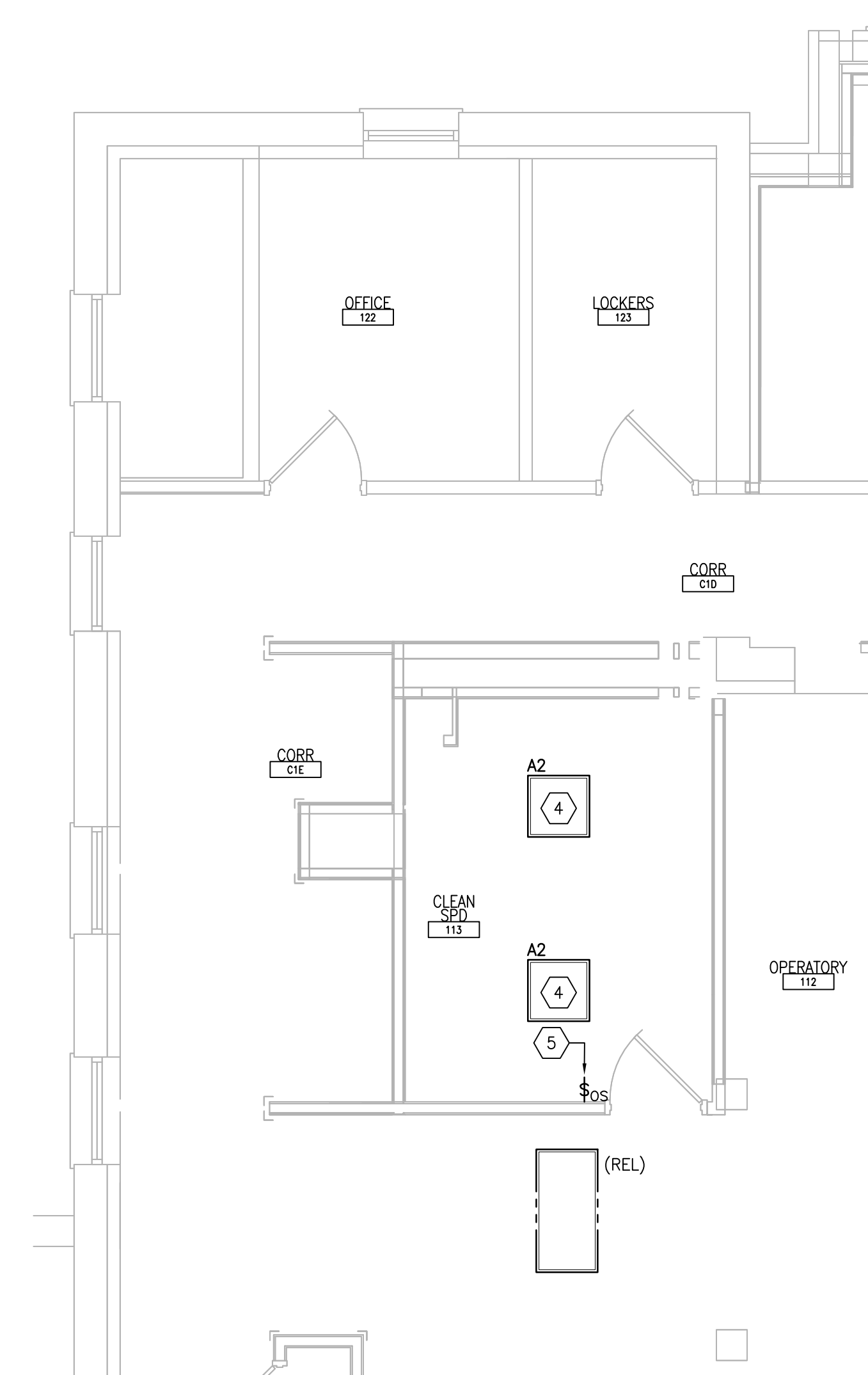
- REFER TO SHEETS E-001 AND E-002 FOR ABBREVIATIONS, SYMBOLS AND NOTES.
- REFER TO SHEET 3-E-111 FOR LOCATION OF PANELBOARDS.
- REFER TO SERIES E-700 SHEETS FOR PANELBOARD SCHEDULES AND LIGHTING FIXTURE SCHEDULE.
- REFER TO ARCHITECTURAL DRAWINGS FOR ICRA BARRIER LOCATIONS AND ALL WORK ASSOCIATED WITH CEILINGS.
- ADHERE TO ALL ICRA REQUIREMENTS LISTED ON G1001 AND IN SPECIFICATIONS. THE DIFFERENT WORK SPACES ICRA LEVEL HAS BEEN DEFINED BY THE VA AS LEVEL 3 UNLESS OTHERWISE INDICATED. ALL EQUIPMENT IN THE ROOM SHALL BE PROTECTED FROM DUST, DEBRIS AND PHYSICAL DAMAGE AT ALL TIMES.
- AVOID CEILING-MOUNTED AND WALL-MOUNTED DEVICES (I.E. SIGNAGE, LIGHTING FIXTURE, FIRE ALARM, NURSE CALL, WAPS, ETC.) WHEN LOCATING ICRA WALLS. WHERE DEVICES CANNOT BE AVOIDED, THE CONTRACTOR SHALL TEMPORARILY RELOCATE THE DEVICE AND REINSTALL AT ORIGINAL LOCATION AFTER REMOVAL OF ICRA WALL.
- REFER TO SPECIFICATION 02 82 11 APPENDIX A1 FOR ABATEMENT REPORT. THE CONTRACTOR SHALL ADHERE TO AND FOLLOW THE ABATEMENT REPORT FOR ALL KNOWN ABATEMENT LOCATIONS.
- COORDINATE ACCESS PROCEDURES, PROTECTION OF EXISTING RME STORAGE RACKS/EQUIPMENT, CLEANUP AND WORK HOURS WITH THE VA.
- REFER TO MECHANICAL AND PIPING DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND ROUTING OF PIPING/DUCT WORK.
- DEVICE/LIGHTING FIXTURE LABELED AS (REL) SHALL BE DISCONNECTED AND REMOVED DURING CONSTRUCTION. UPON INSTALLATION OF NEW CEILING IN THE SPACE, RE-INSTALL AND CONNECT EXISTING DEVICE/LIGHTING FIXTURE. PROTECT WIRING AND DEVICE/LIGHTING FIXTURE DURING CONSTRUCTION.
- OCCUPANCY SENSOR WALL SWITCH SHOWN ON DRAWING SHALL BE CONNECTED TO NEW LIGHTING FIXTURE(S) WITHIN THE SAME SPACE.

SHEET KEYNOTES:

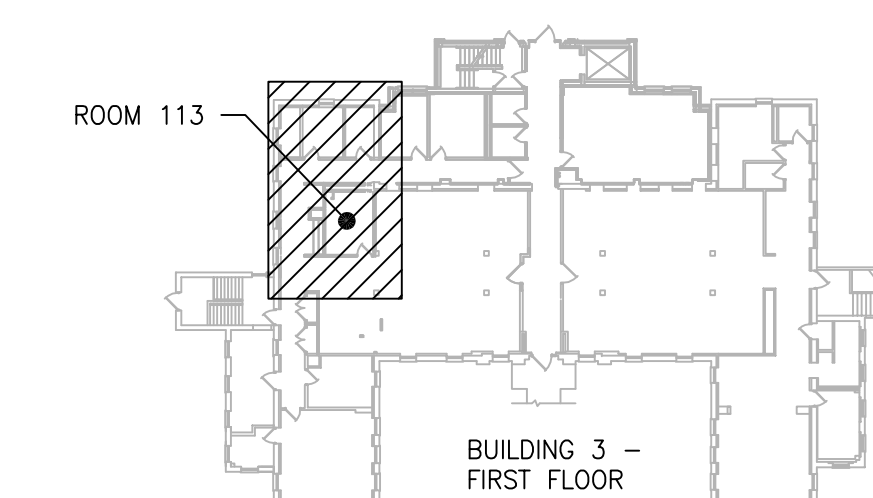
- DISCONNECT AND REMOVE EXISTING LIGHTING CIRCUIT. PROTECT BRANCH CIRCUIT DURING CONSTRUCTION.
- DISCONNECT AND REMOVE EXISTING SWITCH. RETAIN BACK BOX AND ASSOCIATED CONDUIT AND WIRING.
- EXISTING WALL MOUNT AIR CONDITIONING (AC-1) UNIT AND ASSOCIATED CONDENSING UNIT TO BE REMOVED AND RELOCATED TO STORAGE AS DIRECTED BY THE VA OR DISPOSED OF PER THE SPECIFICATIONS. DEMOLISH ALL APPURTENANCES INCLUDING PIPING, WIRING HANGERS ETC. PATCH AND PAINT WALL TO MATCH EXISTING CONDITIONS.
- PROVIDE NEW LIGHTING FIXTURE AND CONNECT TO EXISTING LIGHTING BRANCH CIRCUIT PREVIOUSLY FEEDING DEMOLISHED LIGHTING FIXTURE. CONNECT TO EXISTING ROOM LIGHTING CONTROLS. PROVIDE ADDITIONAL CONDUIT AND WIRING AS NEEDED.
- PROVIDE NEW SWITCH INSTALLED IN EXISTING BACK BOX. CONNECT TO EXISTING LIGHTING BRANCH CIRCUIT.



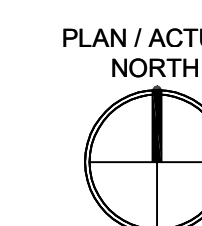
1 FIRST FLOOR ROOM 113 - DEMOLITION
SCALE: 1/4" = 1'-0"
REF DWG: 3-E-111



2 FIRST FLOOR ROOM 113 - NEW WORK
SCALE: 1/4" = 1'-0"
REF DWG: 3-E-111



KEYPLAN
SCALE: NTS



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PROFESSIONAL ENGINEER

Office of
Construction
and Facilities
Management



Drawing Title
**ELECTRICAL
FIRST FLOOR - DEMOLITION & NEW
WORK PART PLANS**

Approved: Project Director

Phase
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