

Sioux Falls VA Health Care System

EHRM Infrastructure Upgrades Wagner CBOC

VA Project Number 438-21-100WAG

400 SD-46
Wagner, South Dakota 57380

FINAL CONSTRUCTION DOCUMENTS

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G001 COVER SHEET
G002 ABBREVIATIONS, SYMBOLS, GENERAL NOTES

ARCHITECTURAL

A101 FLOOR PLAN, DEMOLITION FLOOR PLAN, REFLECTED
CEILING PLAN

MECHANICAL


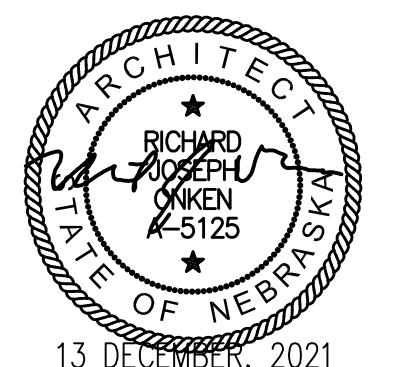

M000 MECHANICAL SYMBOLS AND ABBREVIATIONS
M100 LEVEL 1 FLOOR PLANS - MECHANICAL & FIRE PROTECTION
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ELECTRICAL

E000 ELECTRICAL SYMBOLS AND ABBREVIATIONS
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E601 ELECTRICAL DETAILS

IMPORTANT CONTRACTOR NOTES:

- ALL CONTRACTORS ARE RESPONSIBLE FOR REVIEWING ENTIRE SET OF DOCUMENTS TO DETERMINE THEIR FULL SCOPE OF WORK. CONTRACTOR SHALL NOT BE ALLOWED EXTRA COSTS DUE TO FAILURE TO REVIEW ENTIRE SET OF DOCUMENTS.
- COVER AND PROTECT ALL VA EQUIPMENT SO THAT THE FUNCTION AND APPEARANCE IS NOT AFFECTED BY CONSTRUCTION, THE CONTRACTOR, THEIR EQUIPMENT, MATERIALS, OR ANY INVOLVED ACTIONS.

| | | | | | | | | | | | |
|---|--|--|--|---|---|---|--|--|---|------------------------|-------------------------------|
| CONSULTANT  SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 10360 Ellison Cir Omaha, NE 68134 402-991-5520 POC - Brad Carne, Nathan Timm | | ARCHITECT/ENGINEER OF RECORD ALESIA ARCHITECTURE Alesia Architecture, P.C. 3705 North 200th Street Elkhorn, NE 68022 (402) 291-6941 POC - Rich Onken, Anthony Calub | | STAMP  | Office of Construction and Facilities Management  U.S. Department of Veterans Affairs | Drawing Title COVER SHEET Approved: Project Director | Phase FINAL CONSTRUCTION DOCUMENTS | Project Title EHRM Infrastructure Upgrades Wagner CBOC | Project Number 438-21-100WAG Building Number . | Location Wagner, SD | Drawing Number G001 |
| Revisions: | | Date: | | Issue Date 12-13-2021 | | Checked RO | Drawn AC | | | | |

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File Path

ABBREVIATIONS

Table of abbreviations with columns for symbol, description, and units. Includes terms like AB ANCHOR BOLT, ACT ACOUSTIC TILE, FE FIRE EXTINGUISHER, etc.

HAZARDOUS MATERIAL:

- 1. IF THE CONTRACTOR ENCOUNTERS MATERIAL THAT COULD BE HAZARDOUS, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE OWNER IMMEDIATELY FOR DIRECTION.

FIRE PROOFING GENERAL NOTE:

- 1. MAINTAIN FIRE RATED CONSTRUCTION AT WALL PENETRATIONS... 2. FIRE CAULK ALL SLEEVES AND PENETRATIONS AT FIRE WALLS / PARTITIONS AND FLOORS... 3. PATCH AND REPAIR ALL EXISTING FIREPROOFING ON EXISTING STRUCTURAL MEMBERS... 4. PATCH AND REPAIR ALL EXISTING FIRE CAULKING AT EXISTING RATED WALLS WHICH IS UNCOVERED...

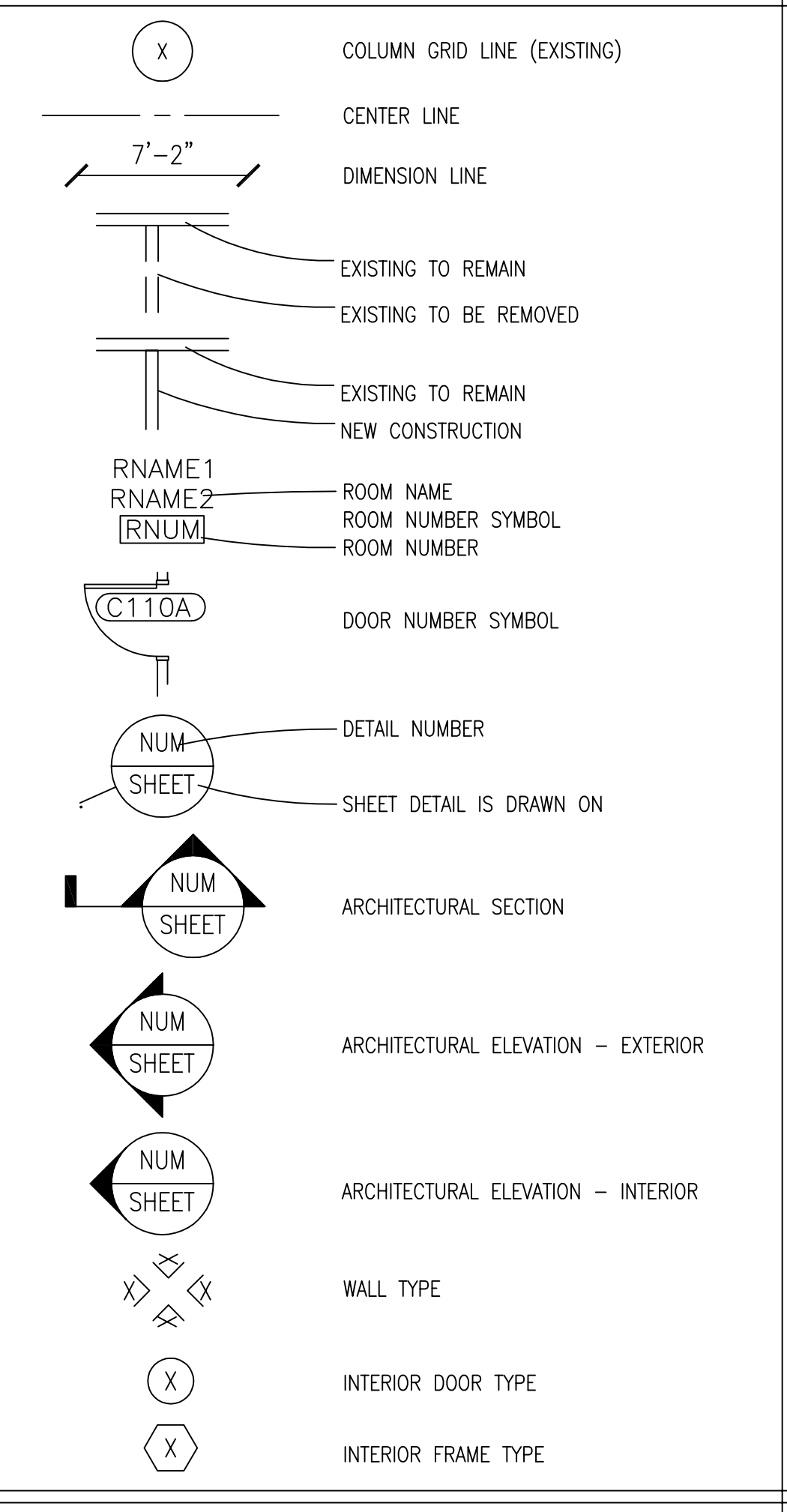
APPLICABLE CODES & DESIGN STANDARDS:

- 1. VETERANS AFFAIRS DESIGN AND CONSTRUCTION PROCEDURES 2. VETERANS AFFAIRS MASTER CONSTRUCTION SPECIFICATION 3. VETERANS AFFAIRS BARRIER FREE DESIGN GUIDE 4. VETERANS AFFAIRS ROOM FINISHES, DOOR AND HARDWARE SCHEDULE 5. OSHA STANDARDS 6. INTERNATIONAL BUILDING CODE (IF DIRECTED BY OWNER) 7. VA SEISMIC REQUIREMENTS 8. NATIONAL ELECTRICAL CODE 9. NFPA CODES WITH THE EXCEPTION OF NFPA 5000 10. NATIONAL STANDARD PLUMBING CODE 11. UNIFORM FEDERAL ACCESSIBILITY STANDARDS 12. FEDERAL REGULATIONS PARTS 434 AND 435 13. THE PROVISIONS FOR CONSTRUCTION AND SAFETY SIGNS AS STATED IN THE GENERAL REQUIREMENTS SECTION 01 00 00 OF THE VA MASTER SPECIFICATIONS

GENERAL ARCHITECTURAL NOTES:

- 1. THE CONTRACTOR SHALL INSPECT THE SITE, STUDY EXISTING CONDITIONS, REVIEW DRAWINGS AND SPECIFICATIONS... 2. CONTRACTOR SHALL TAKE ALL MEASUREMENTS FOR THE WORK AND BE RESPONSIBLE FOR SAME... 3. ALL UTILITIES AND SERVICES SHALL BE KEPT IN CONTINUOUS OPERATION UNLESS WRITTEN PERMISSION IS OTHERWISE GRANTED... 4. TEMPORARY ALTERATIONS AND CONNECTIONS REQUIRED BY THIS CONTRACT SHALL BE MADE SO THAT ALL BUILDING SERVICES ARE MAINTAINED WITH MINIMUM INTERRUPTION... 5. PROTECT ALL WORK, MATERIALS AND EQUIPMENT. CAP OR PLUG TEMPORARY OPENINGS... 6. WHEN DEMOLITION IS COMPLETE, NOTIFY ARCHITECT AND OWNER FOR A SCHEDULED MEETING... 7. CUTTING AND PATCHING OF EXISTING WALLS, FLOORS OR CEILINGS REQUIRED BY NEW WORK SHALL BE INCLUDED AS WORK PROVIDED UNDER THIS CONTRACT... 8. CUTTING SHALL BE DONE WITH CARE SO AS NOT TO DAMAGE EXISTING EQUIPMENT, CONNECTIONS, CONTROLS, ETC... 9. DAMAGE CAUSED BY SUCH CUTTING SHALL BE REPLACED OR REPAIRED TO ORIGINAL CONDITION BY CONTRACTOR AT NO COST TO THE OWNER... 10. ALL OCCUPIED WORK AREAS, BUILDING CORRIDORS AND EXTERIOR AREAS SHALL BE KEPT CLEAR OF DEBRIS... 11. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, OF THE BEST QUALITY AND FREE FROM DEFECTS... 12. MANUFACTURER AND MODEL NUMBERS SPECIFIED ESTABLISH THE TYPE AND QUALITY REQUIRED... 13. ALL WORK SHALL COMPLY WITH APPLICABLE REGULATIONS, CODES AND ORDINANCES... 14. THE CONTRACTOR SHALL PERFORM ALL TESTS AS SPECIFIED OR AS NECESSARY TO DEMONSTRATE A COMPLETE AND SATISFACTORY INSTALLATION... 15. ALL EXPOSED PENETRATIONS MADE THROUGH EXISTING ROOFS, FLOORS, AND WALLS SHALL BE PATCHED WITH LIKE MATERIALS... 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND REPLACING ANY DAMAGE TO EXISTING MATERIALS... 17. ALL CONTRACTORS ARE RESPONSIBLE FOR REVIEWING ENTIRE SET OF DOCUMENTS TO DETERMINE THEIR FULL SCOPE OF WORK... 18. ALL NEW CONSTRUCTION IS INDICATED BOLD OR FULL TONE.

ARCHITECTURAL SYMBOLS



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E

F

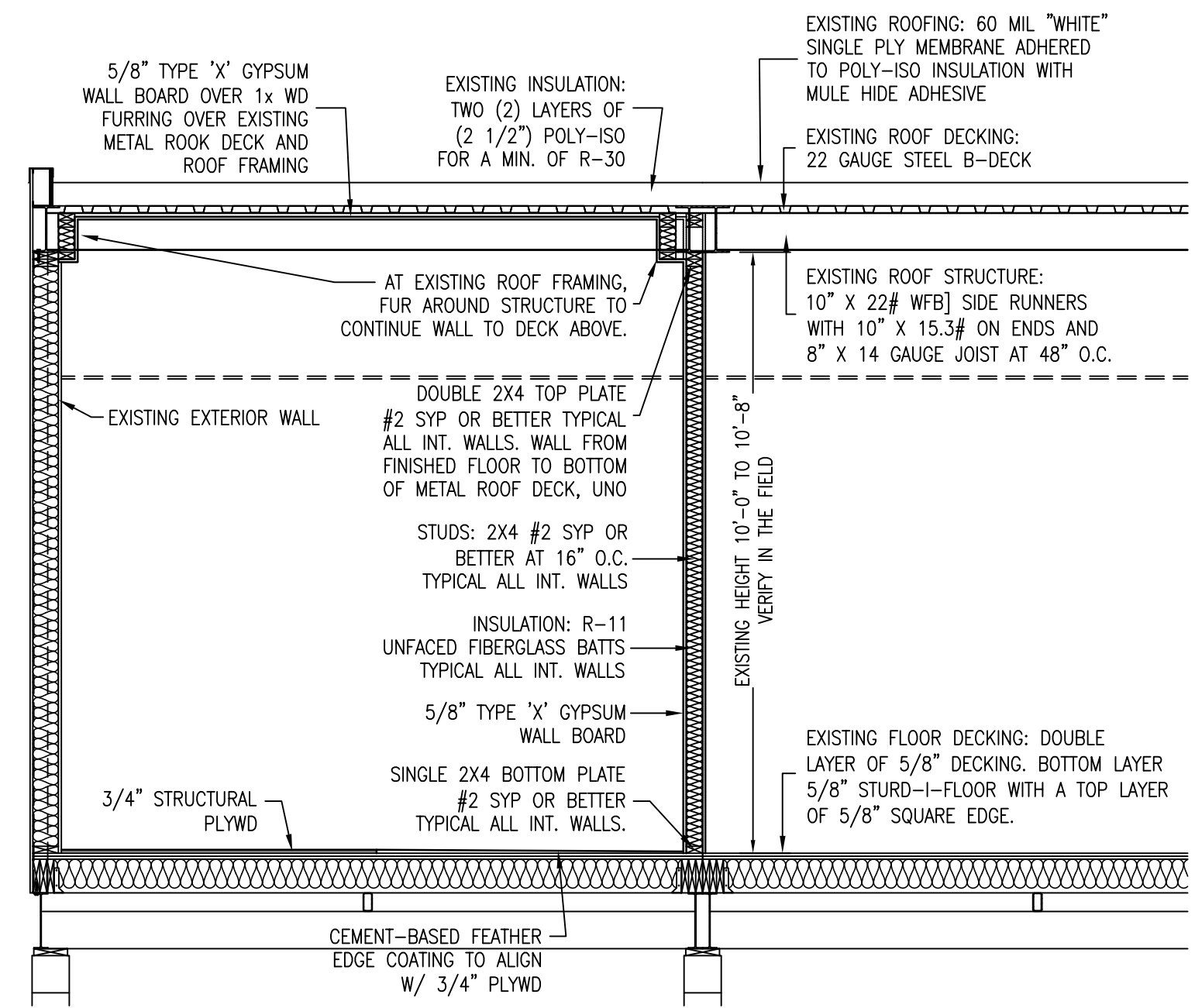
Project information block containing Consultant (SPECIALIZED ENGINEERING SOLUTIONS), Architect/Engineer of Record (ALESIA ARCHITECTURE), Office of Construction and Facilities Management, Drawing Title (ABBREVIATIONS, SYMBOLS, GENERAL NOTES), Phase (FINAL CONSTRUCTION DOCUMENTS), Project Title (EHRM Infrastructure Upgrades), Project Number (438-21-100WAG), Location (Wagner, SD), Issue Date (12-13-2021), Checked (RO), Drawn (AC), and Drawing Number (G002).

| ROOM NO. | ROOM NAME | FLOOR | | | | WALLS | | | | CEILING | | NOTES |
|----------|------------------------|--------|------|-----------|-------|-------|------|------|-------|---------|--|---------|
| | | FINISH | BASE | ALL WALLS | NORTH | SOUTH | EAST | WEST | MAT'L | HEIGHT | | |
| 109 | CLEAN UTILITY | E | RB-1 | P-1 | P-1 | E | E | P-1 | AT-1 | E | | 1, 2, 3 |
| 112 | TELECOMMUNICATION ROOM | ESD | RB-1 | P-1 | ** | ** | ** | ** | GWB | E | | 1, 4, 5 |
| C103 | CORRIDOR | E-OP | RB-1 | E | E | E | E | E-AT | E | E | | 1, 3 |
| C104 | CORRIDOR | E-CT | RB-1 | P-1 | E | E | E | E-AT | E | E | | 1, 3 |

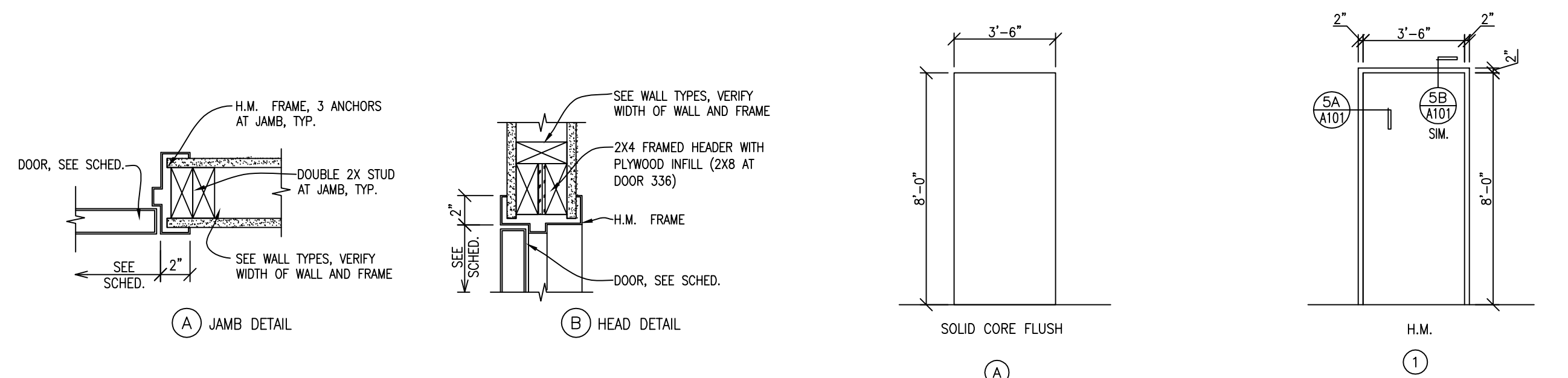
REMARKS NOTES:
 1. PAINT COLOR P-1 TO MATCH EXISTING WALL PAINT, VERIFY IN THE FIELD.
 2. PATCH, REPAIR & REFINISH EXISTING FLOOR FINISH TO MATCH ADJACENT SURFACE, VERIFY IN THE FIELD.
 3. PATCH, REPAIR & REPLACE EXISTING ACoustICAL CEILING PANELS & GRID TO MATCH ADJACENT SURFACE.
 4. NEW GWB CEILING AT BOTTOM OF EXISTING METAL ROOF DECK & AROUND ROOF FRAMING, PAINT P-1.
 5. ESD = STATIC DISSIPATIVE RESILIENT TILE FLOORING

| DOOR NO. | HWDR. NO. | DOOR SIZE | DOOR | | | LABEL | FRAME | | | DETAILS | | REMARKS |
|----------|-----------|------------------------|------|-------|--------|---------|-------|-------|--------|---------|---------|---------|
| | | | TYPE | MAT'L | FINISH | | TYPE | MAT'L | FINISH | JAMB | HEAD | |
| 112 | HW-1 | 3'-6" X 8'-0" X 1 3/4" | A | WD | ST-1 | 45 MIN. | 1 | H.M. | P-2 | 5A/A101 | 5B/A101 | 1, 2 |

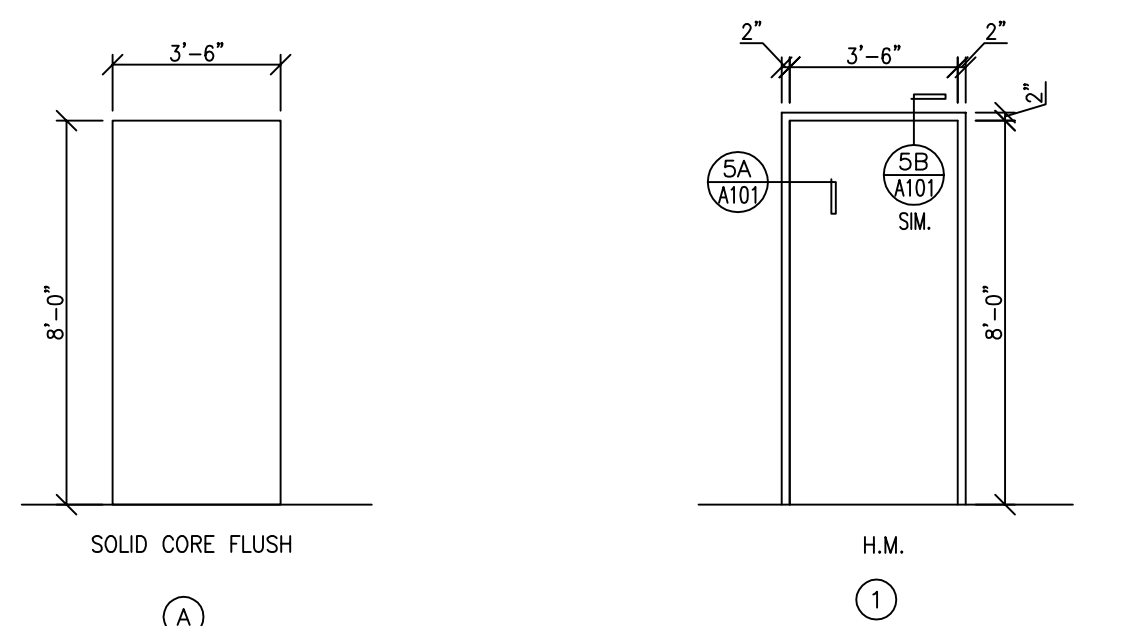
REMARKS: 1. STAIN COLOR / FINISH ST-1 TO MATCH EXISTING DOOR STAIN, VERIFY IN THE FIELD.
 2. PAINT COLOR P-2 TO MATCH EXISTING DOOR FRAME COLOR, VERIFY IN THE FIELD.



WALL TYPE & PARTIAL SECTION
SCALE: NS

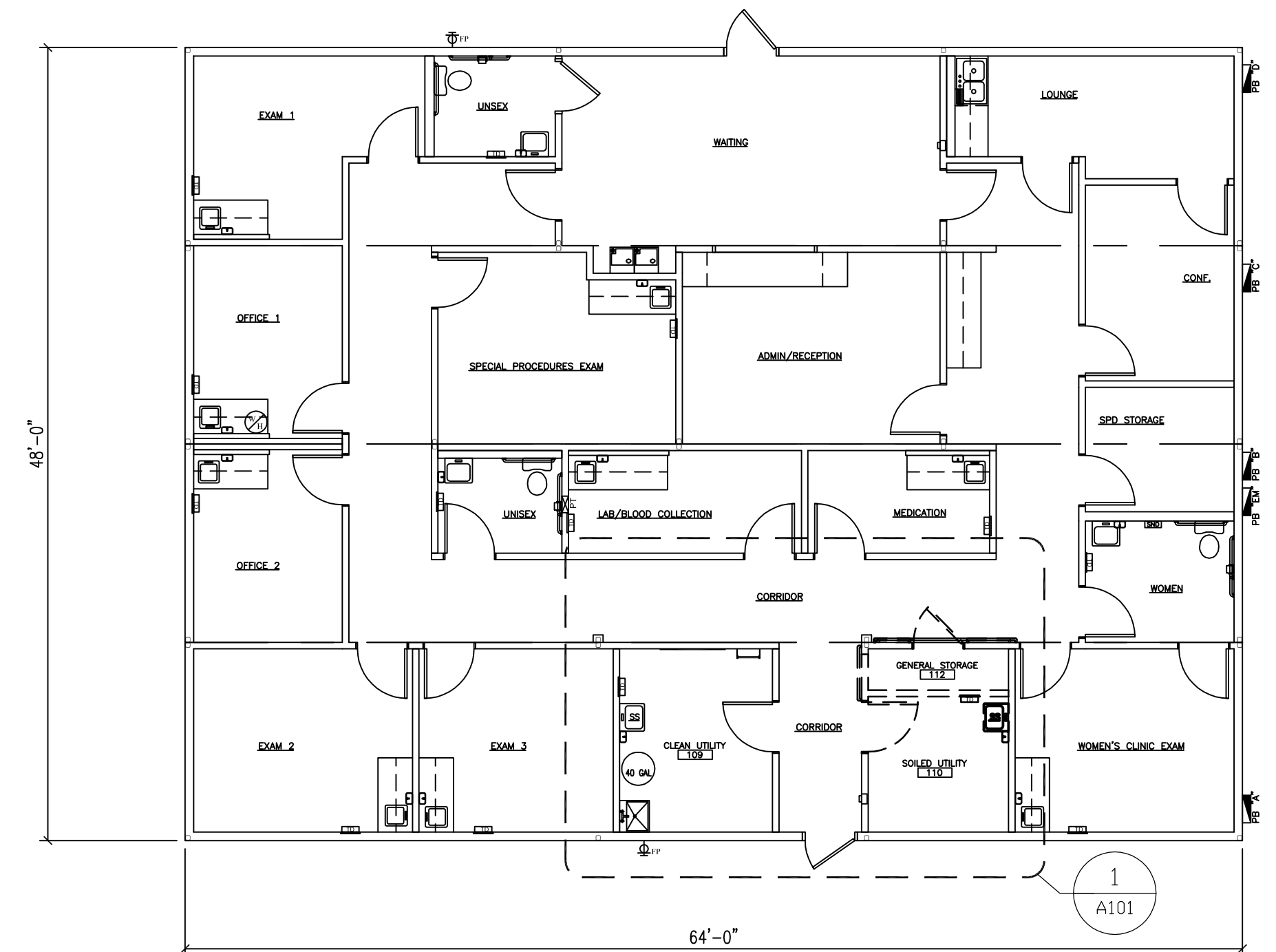


5 DETAILS
SCALE: 1 1/2" = 1'-0"

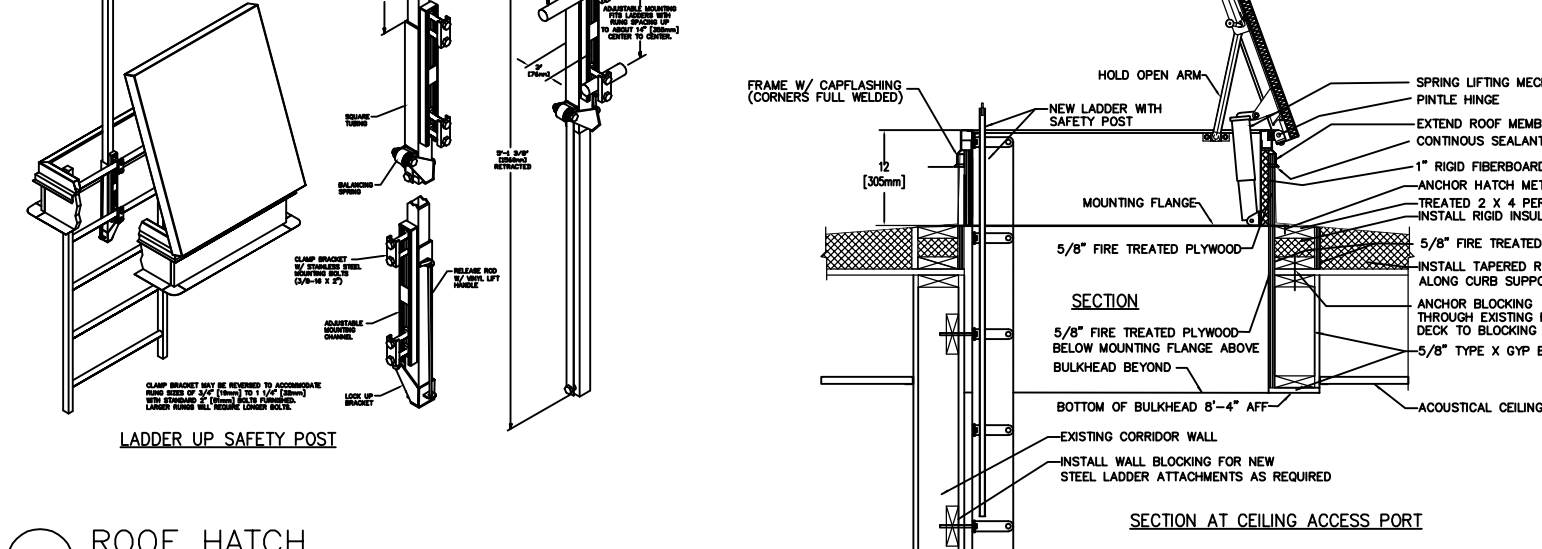
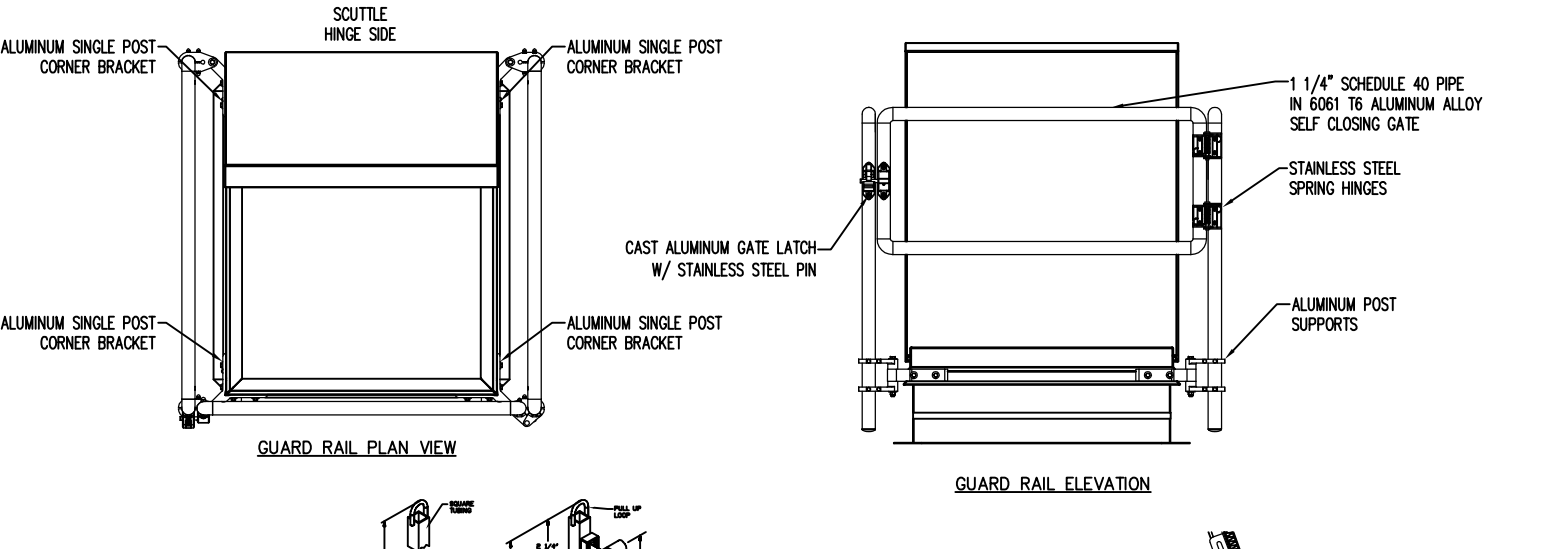
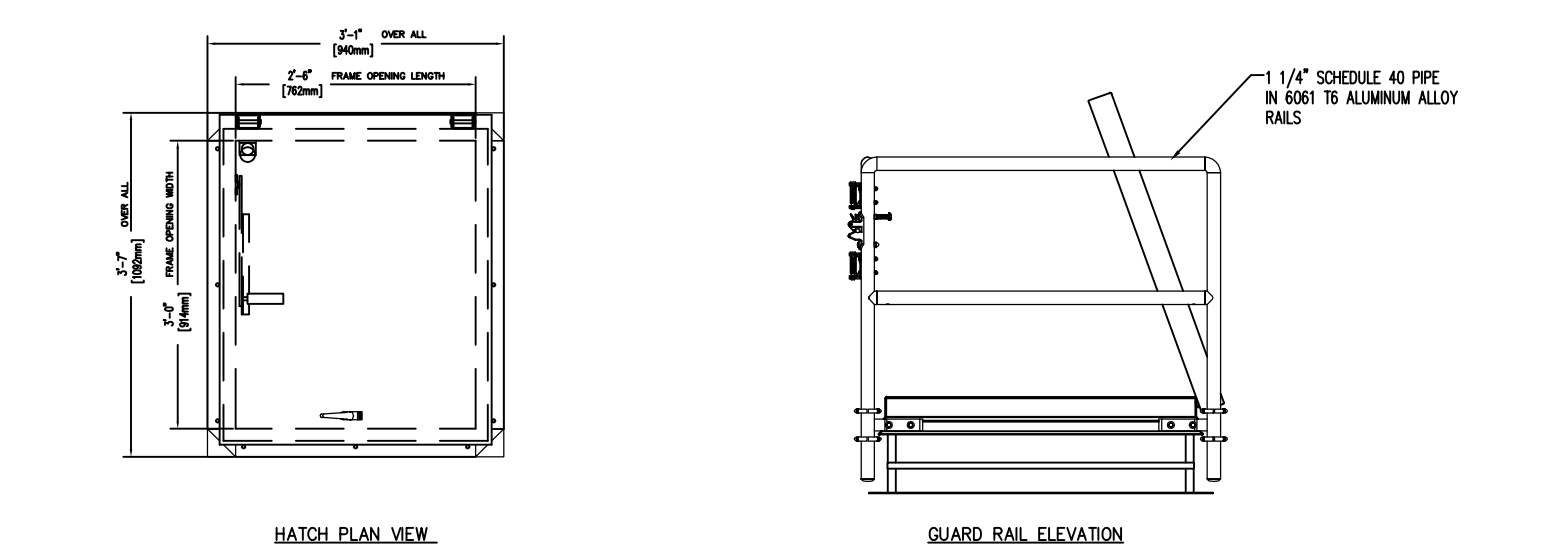
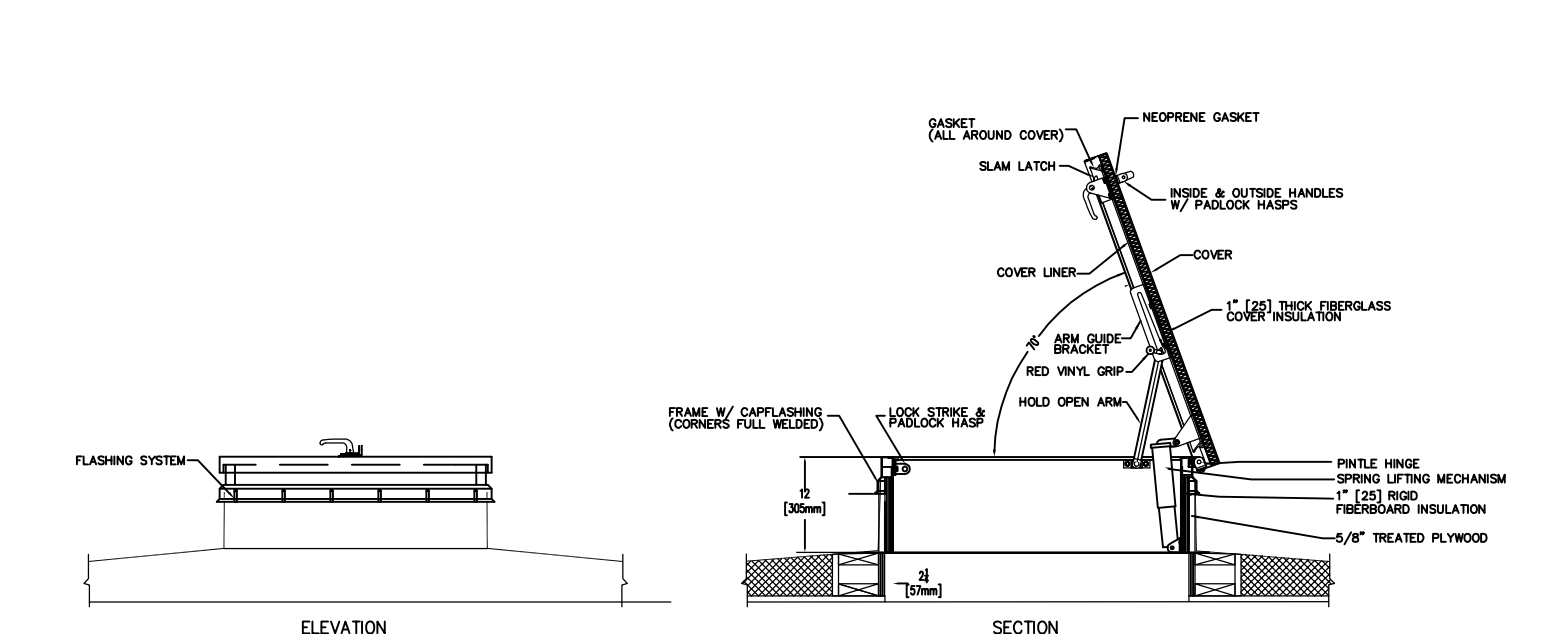


DOOR TYPES
SCALE: 1/4" = 1'-0"

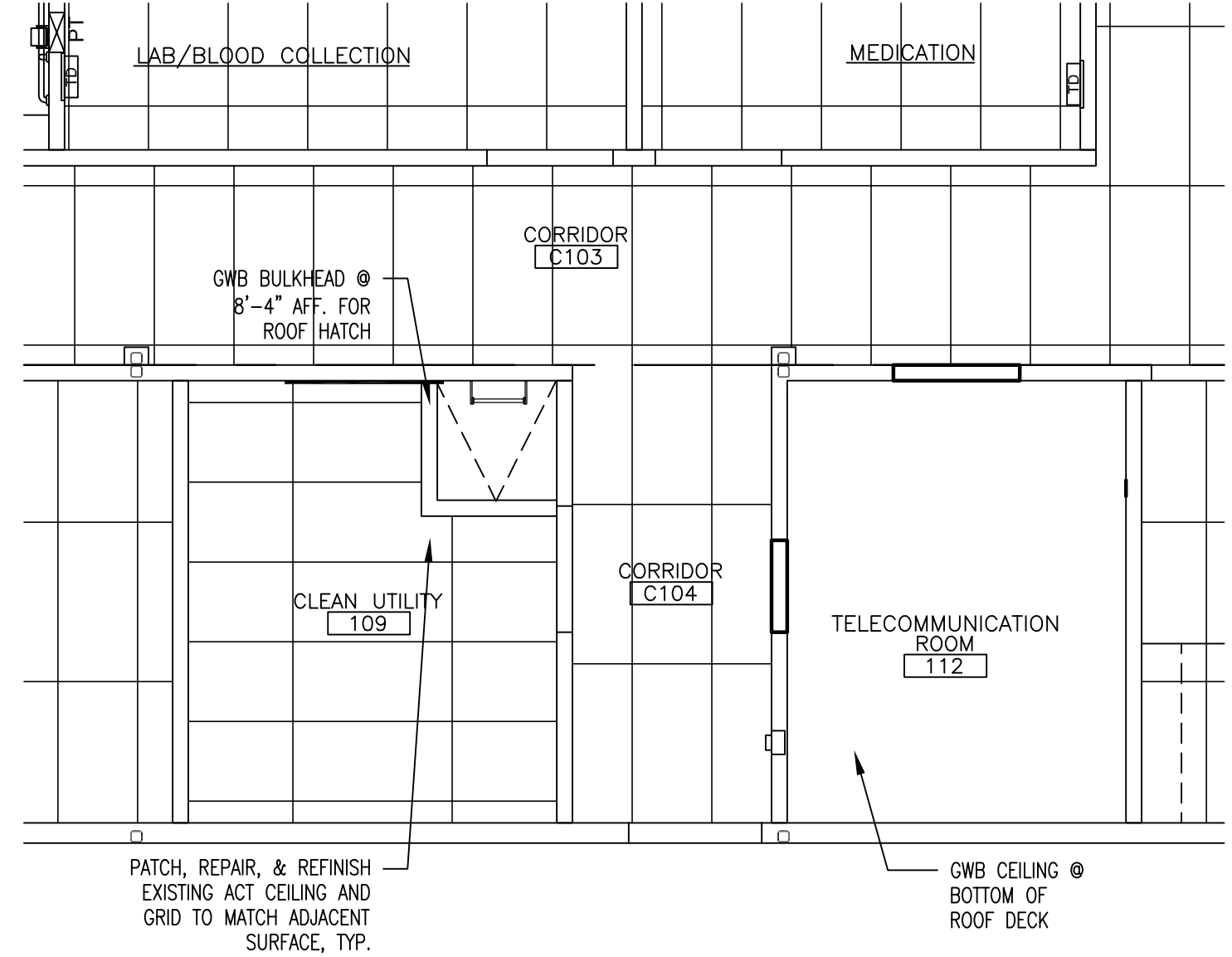
FRAME TYPES
SCALE: 1/4" = 1'-0"



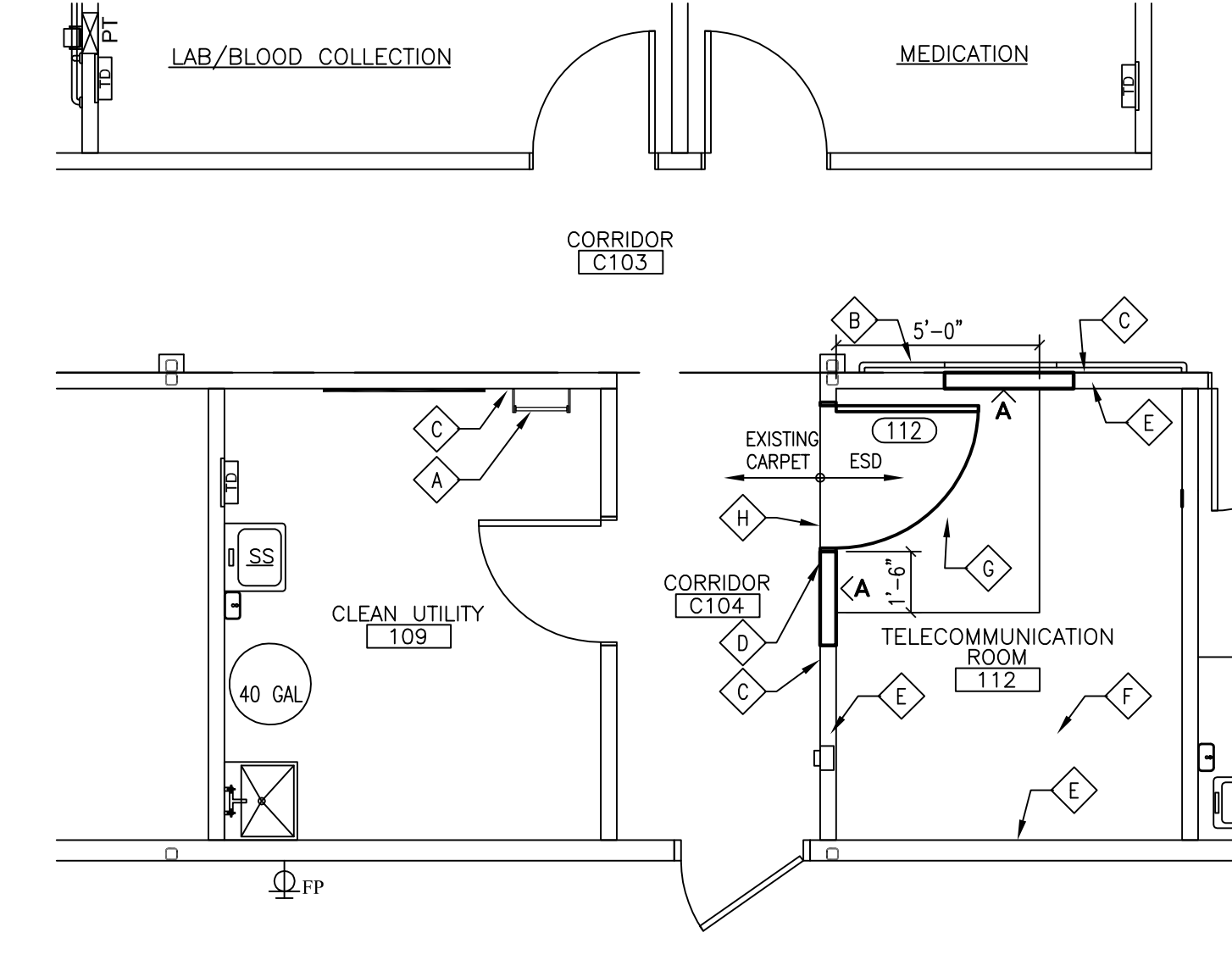
OVERALL EXISTING FLOOR PLAN
SCALE: 1/8" = 1'-0"



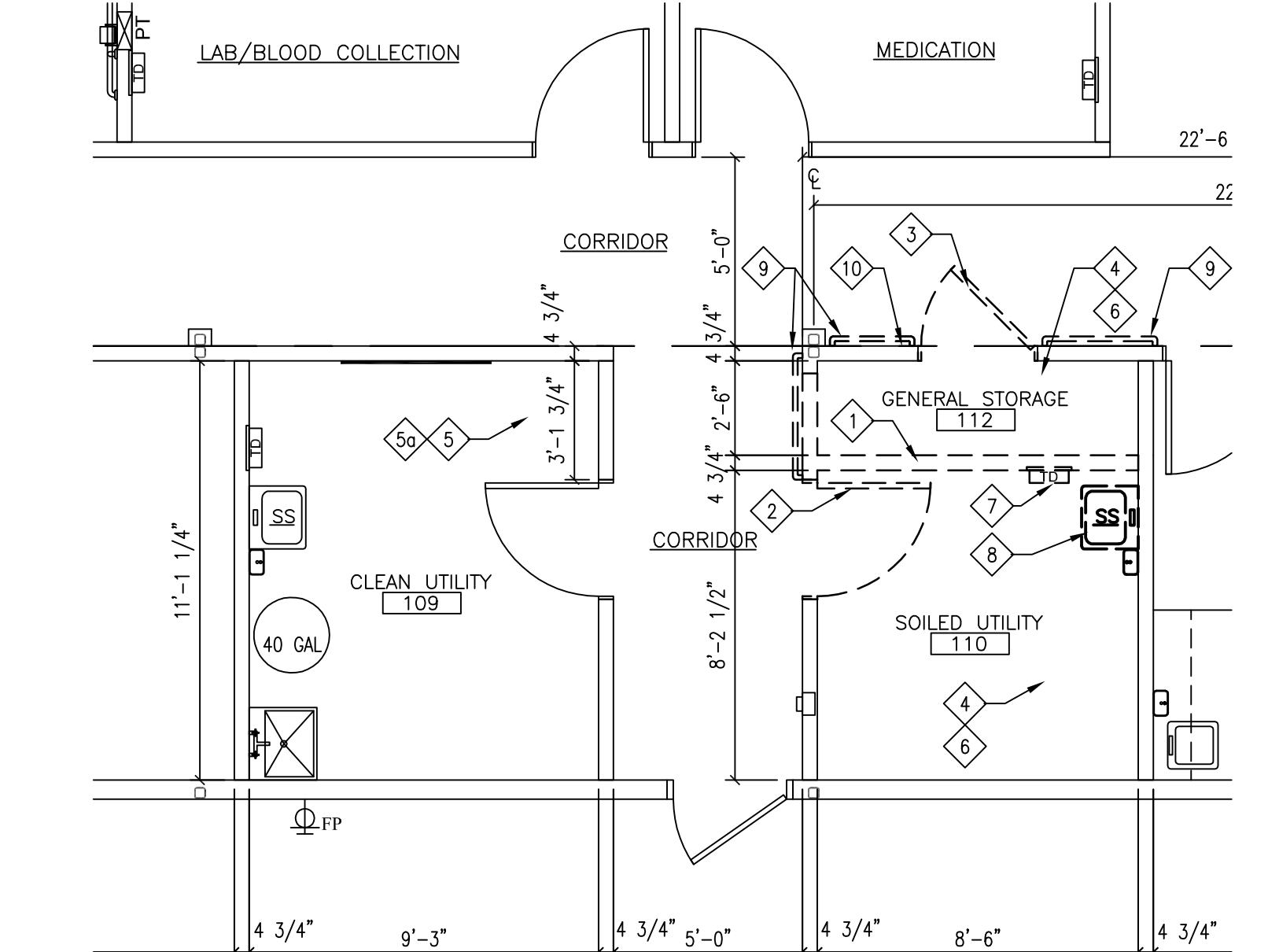
4 ROOF HATCH
SCALE: NS



3 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



2 FLOOR PLAN
SCALE: 1/4" = 1'-0"



1 DEMOLITION FLOOR PLAN
SCALE: 1/4" = 1'-0"

FLOOR PLAN KEY NOTES:
 A INDICATES NEW ROOF LADDER AND ROOF ACCESS HATCH (ABOVE). CONTRACTOR TO PROVIDE WALL BLOCKING FOR ROOF LADDER.
 B INDICATES EXISTING SALVAGED HANDRAILS & BRACKETS. CONTRACTOR TO COMBINE HANDRAIL COMPONENTS AS REQUIRED TO FORM ONE CONTINUOUS HANDRAIL.
 C PATCH, REPAIR, AND REFINISH EXISTING WALL TO MATCH ADJACENT SURFACES.
 D EXISTING SALVAGED SIGNAGE (112), MOUNT SIGN SIMILAR TO EXISTING SIGNAGE, FIELD VERIFY.
 E AT EXISTING WALLS THAT DO NOT EXTEND TO METAL ROOF DECK ABOVE, CONTRACTOR TO PROVIDE NEW PORTION OF WALL FRAMING OR FLURRED WALL, AND SEALANT TO COVER/CLOSE GAP BETWEEN TOP OF EXISTING WALL(S) TO EXISTING ROOF DECK.
 F CONTRACTOR TO PLACE 3/4" STRUCTURAL GRADE PLYWD OVER EXISTING FLOOR DECK AND UNDER NEW ESD VINYL TILE FLOORING.
 G CONTRACTOR TO APPLY CEMENT-BASED FEATHER EDGE COATING OVER EXISTING FLOOR DECKING AND SLOPE UP TO ALIGN WITH NEW 3/4" PLYWD FLOOR.
 H CONTRACTOR TO PROVIDE NEW RESILIENT TRANSITION STRIP TO BE SIMILAR IN COLOR AND STYLE AS THE EXISTING BUILDING TRANSITIONS AT CARPET TO VINYL TILE FLOORS. FIELD VERIFY

DEMOLITION PLAN KEY NOTES:
 1 REMOVE EXISTING WALL.
 2 REMOVE EXISTING DOOR AND DOOR FRAME & PREP FOR NEW DOOR & DOOR FRAME.
 3 REMOVE EXISTING DOOR AND DOOR FRAME.
 4 REMOVE EXISTING ACT CEILING AND CEILING FRAMING, AND SALVAGE FOR REUSE IF NEEDED.
 5 REMOVE PORTION OF EXISTING ACT CEILING AND CEILING GRID AS REQUIRED FOR NEW ACCESS ROOF HATCH AND LADDER.
 6 REMOVE PORTION OF EXISTING METAL ROOF DECK, ROOF INSULATION AND ROOF MEMBRANE AS REQUIRED FOR NEW ACCESS ROOF HATCH AND LADDER. PATCH & REPAIR EXISTING ROOF MEMBRANE PER ROOF MANUFACTURER'S STANDARD DETAILS AND RECOMMENDATIONS SO AS NOT TO WULLIFY OR VOID EXISTING ROOF MEMBRANE WARRANTY. VERIFY IN THE FIELD.
 7 REMOVE EXISTING FLOOR BASE & FLOOR FINISH TO BARE CONCRETE & PREP FOR NEW FLOOR FINISH AND FLOOR BASE.
 8 REMOVE EXISTING TOILET ACCESSORIES AND RETURN TO OWNER.
 9 REMOVE EXISTING PLUMBING FIXTURE, REFER TO HVAC DRAWINGS FOR ADDITIONAL INFORMATION.
 10 REMOVE EXISTING HANDRAIL(S) & BRACKETS AND SALVAGE FOR RELOCATION.

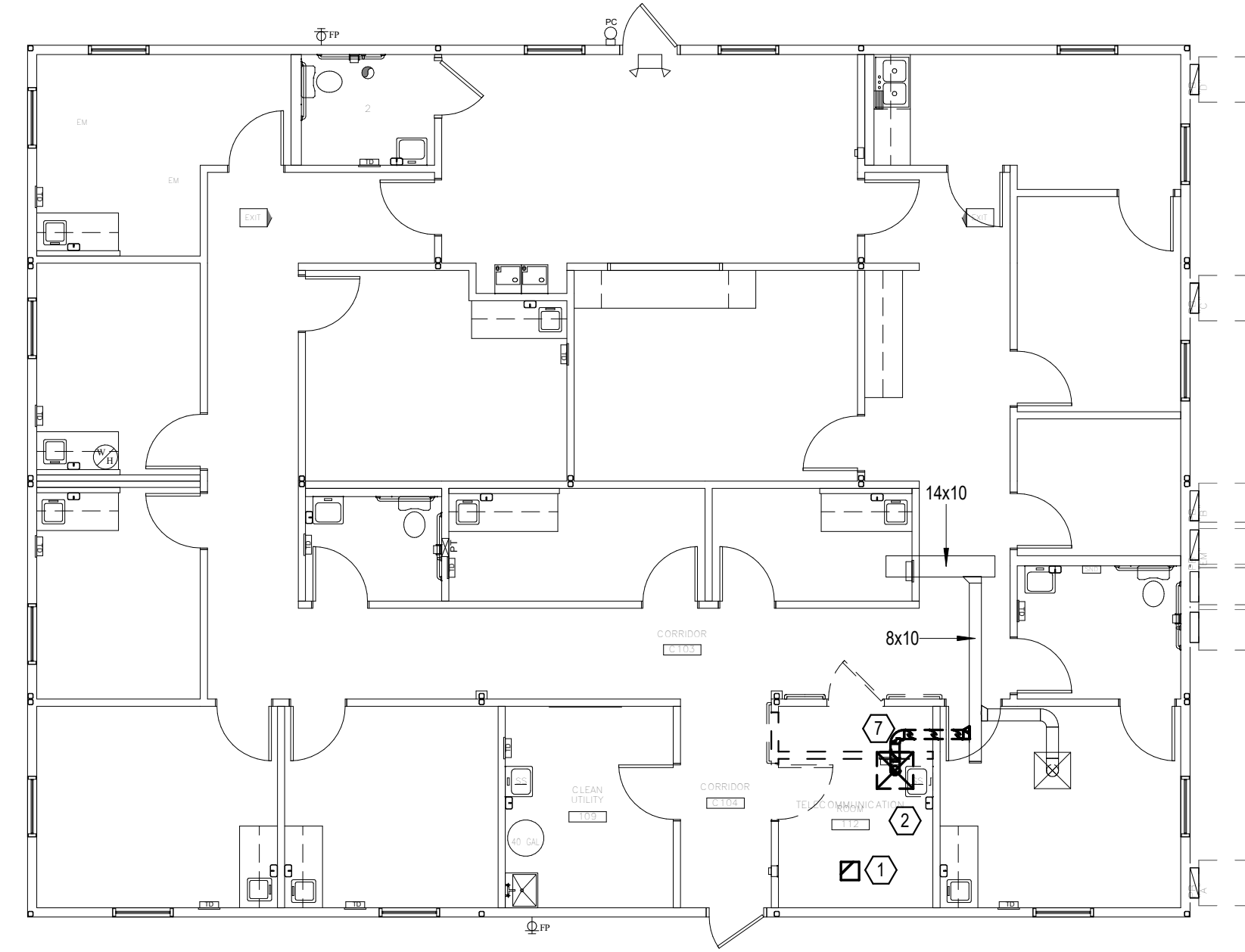
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| CONSULTANT SPECIALIZED ENGINEERING SOLUTIONS Specialized Engineering Solutions 10360 Ellison Cir Omaha, NE 68134 402-991-5520 POC - Brad Carne, Nathan Timm | ARCHITECT/ENGINEER OF RECORD ALESIA ARCHITECTURE Alesia Architecture, P.C. 3705 North 200th Street Elkhorn, NE 68022 (402) 291-6941 POC - Rich Onken, Anthony Calub | STAMP | Office of Construction and Facilities Management U.S. Department of Veterans Affairs | Drawing Title Floor Plan, Demolition Floor Plan, Reflected Ceiling Plan | Phase FINAL CONSTRUCTION DOCUMENTS | Project Title EHRM Infrastructure Upgrades Wagner CBOC | Project Number 438-21-100WAG |
| | | | | Approved: Project Director | Location Wagner, SD | Issue Date 12-13-2021 | Checked RO |

GENERAL NOTES:

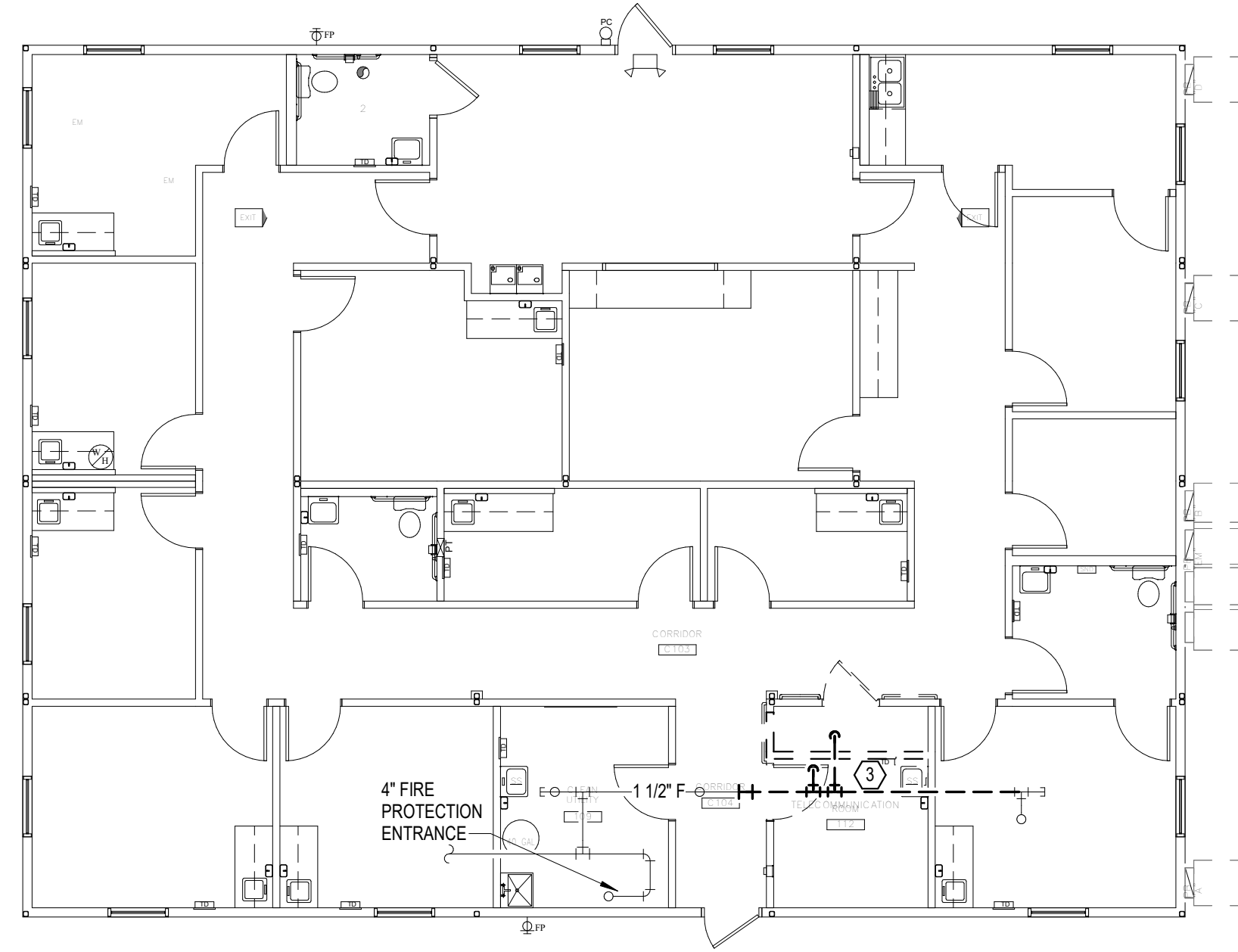
- COVER SHEET GENERAL NOTES APPLY TO ALL SHEETS.
- ON DEMOLITION PLANS, EXISTING MECHANICAL SYSTEMS TO BE REMOVED ARE SHOWN DASHED, EXISTING MECHANICAL SYSTEMS TO REMAIN ARE SHOWN LIGHT LINE WEIGHT. ON ALL OTHER PLANS, NEW MECHANICAL SYSTEMS ARE INDICATED WITH HEAVY LINE WEIGHTS.
- UNLESS NOTED OTHERWISE, DETAILS SHOWN WITHIN THESE DOCUMENTS ARE APPLICABLE FOR ALL PIPING, EQUIPMENT AND DUCTWORK INSTALLATIONS WHETHER OR NOT SPECIFICALLY NOTED.
- THE OWNER AND ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR FOR THE MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM THIS WORK.

SHEET NOTES:

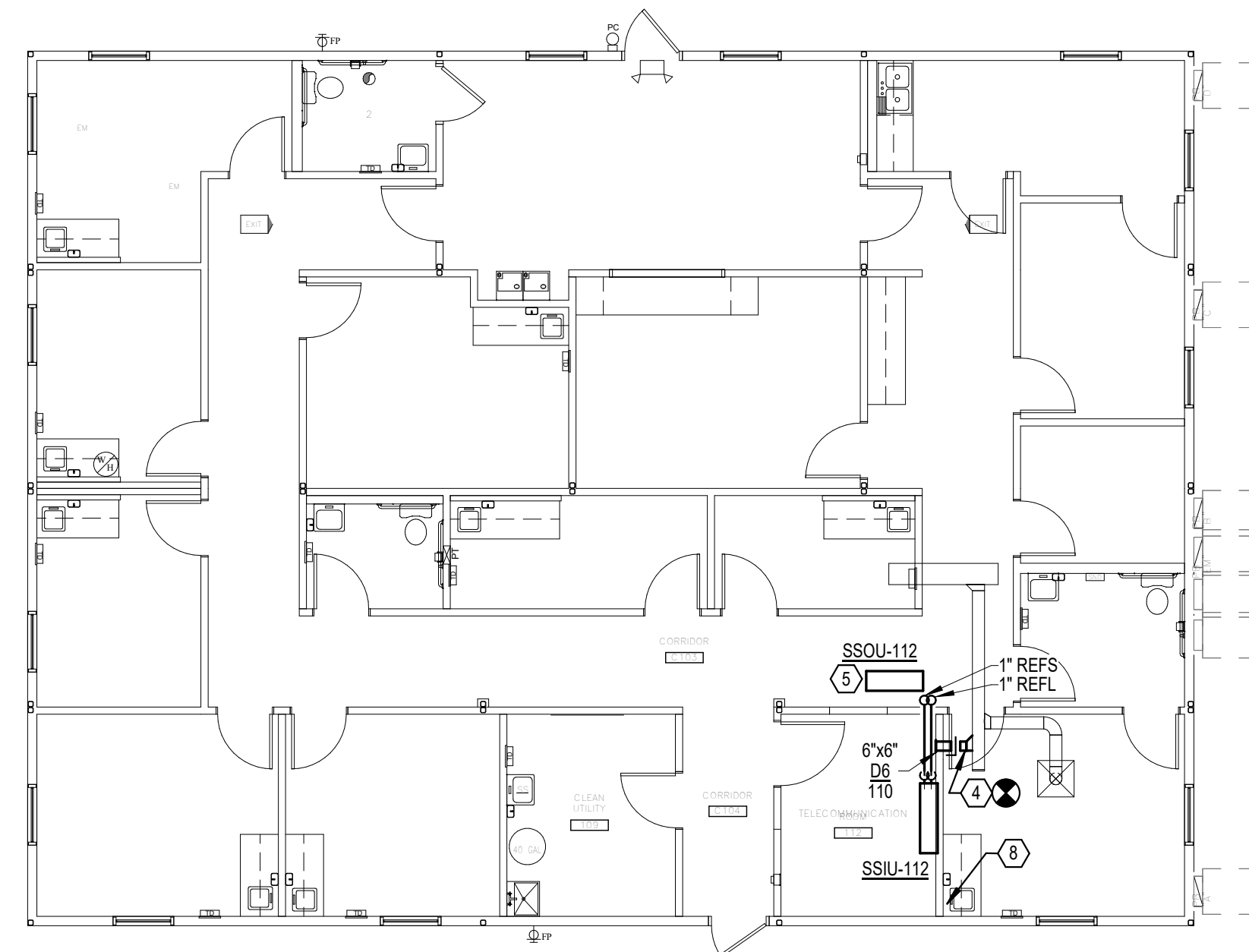
- DEMOLISH EXISTING CEILING MOUNTED EXHAUST FAN AND ASSOCIATED DUCTWORK UP THROUGH ROOF. PATCH AND REPAIR ROOF TO MATCH EXISTING CONSTRUCTION.
- DEMOLISH LAVATORY AND ASSOCIATED DOMESTIC WATER PIPING BACK TO MAIN AND CAP. CAP DOMESTIC WATER PIPING AS CLOSE TO ACTIVE MAIN AS POSSIBLE TO ELIMINATE DEAD LEG PIPING. DOMESTIC WATER LOCATED IN CRAWLSPACE. DEMOLISH SANITARY AND VENT PIPING BACK TO MAIN AND CAP.
- DEMOLISH FIRE PROTECTION PIPING OVER FUTURE TELECOM ROOM TO EXTENTS SHOWN. PREPARE PIPING FOR RECONNECTION.
- CONNECT 8" X 8" SUPPLY AIR DUCT TO EXISTING, BALANCE TO AIRFLOW SHOWN.
- INSTALL CONDENSING UNIT ON ROOF.
- INSTALL FIRE PROTECTION PIPING AROUND NEW TELECOM ROOM. PROVIDE NEW FIRE PROTECTION LINE EXTENDING INTO TELECOM ROOM. PROVIDE NEW SPRINKLER HEAD WITH HEAD GUARD.
- DEMOLISH EXISTING SUPPLY AIR DIFFUSER AND BRANCH DUCT BACK TO MAIN. PREPARE DUCT FOR NEW CONNECTION.
- ROUTE 1" CONDENSATE FROM INDOOR SPLIT SYSTEM TO DISCHARGE INTO PLUMBING VENT PIPING VIA AIR GAP FITTING. REFER TO DETAIL 1 ON SHEET M600.



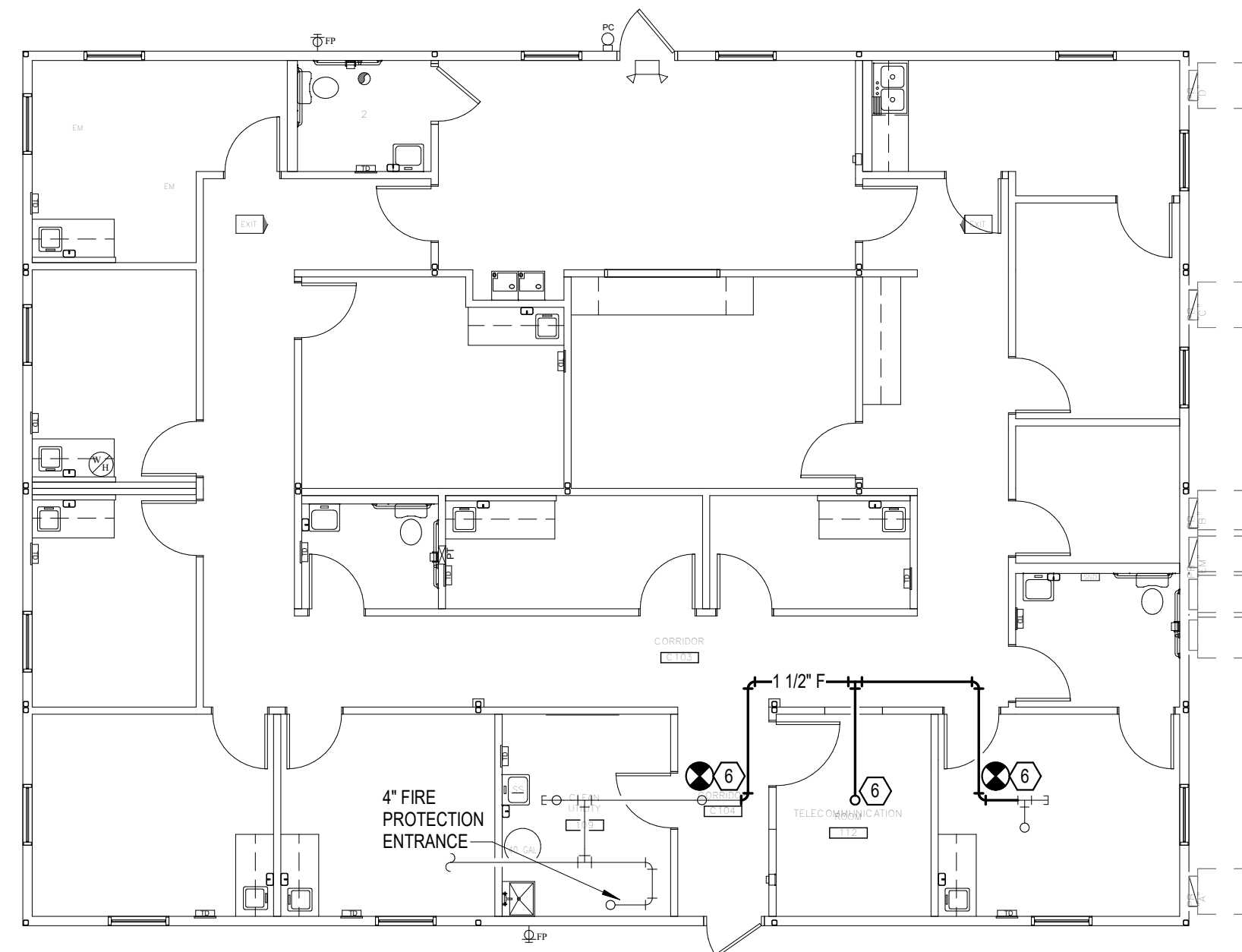
1 FIRST LEVEL FLOOR PLAN - OVERALL - MECHANICAL - DEMOLITION
1/8" = 1'-0"



2 FIRST LEVEL FLOOR PLAN - OVERALL - FIRE PROTECTION - DEMOLITION
1/8" = 1'-0"



3 FIRST LEVEL FLOOR PLAN - OVERALL - MECHANICAL
1/8" = 1'-0"



4 FIRST LEVEL FLOOR PLAN - OVERALL - FIRE PROTECTION
1/8" = 1'-0"

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| Revisions: | Date: |
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| | |

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STAMP

REGISTERED PROFESSIONAL ENGINEER
1629
ERIC G. SHERMAN
12/13/2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
LEVEL 1 FLOOR PLAN - MECHANICAL & FIRE PROTECTION

Approved: _____

Phase
FINAL CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM Infrastructure Upgrades Wagner CBOC

Location
Wagner, SD

Issue Date
12-13-2021

Checked _____

Drawn _____

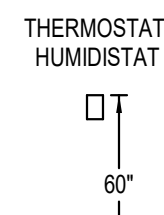
Project Number
438-21-100WAG

Building Number
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Drawing Number
M100

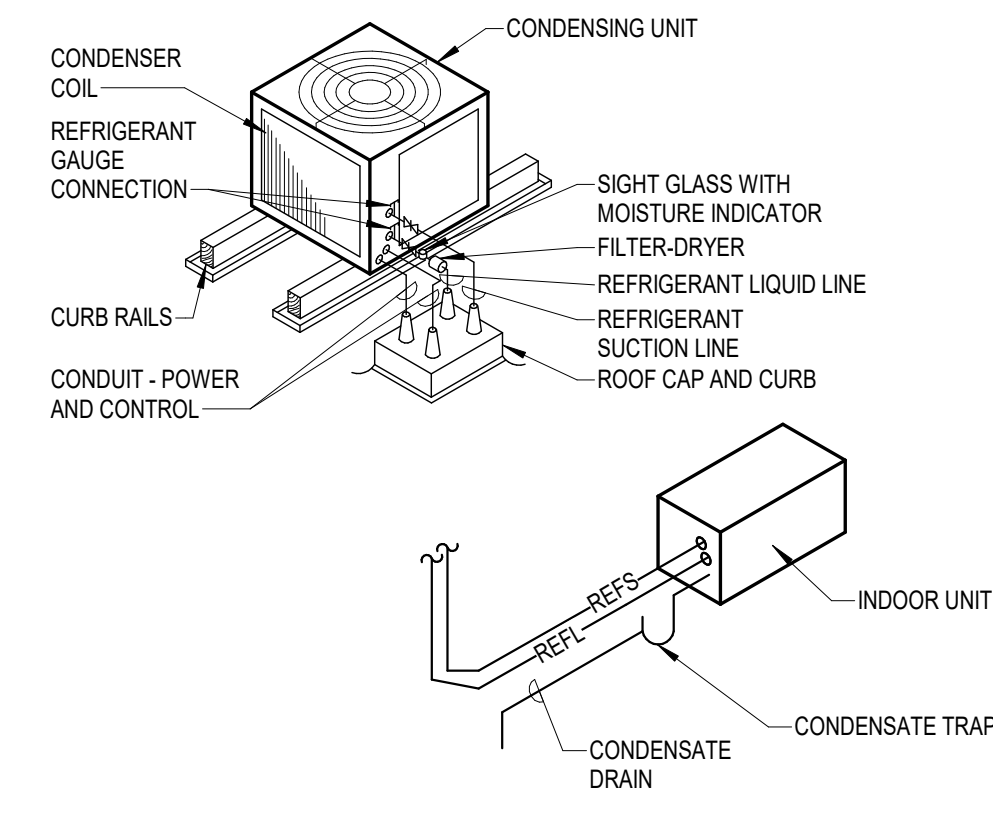
SPLIT SYSTEM DX AIR:
 • CONSISTS OF WALL/CEILING MOUNTED BLOWER EVAPORATOR UNIT, ROOFGRADE MOUNTED CONDENSING UNIT, WALL MOUNTED CONDITIONING SYSTEMS. THERMOSTAT PROVIDED BY TEMPERATURE CONTROLS CONTRACTOR, AND MANUFACTURER SUPPLIED TEMPERATURE CONTROLLER.
 • CYCLE CONDENSING UNIT AND INDOOR UNIT IN UNISON TO MAINTAIN A SPACE TEMPERATURE SETPOINT OF 75° F (ADJUSTABLE). MONITOR ROOM TEMPERATURE, EQUIPMENT STATUS AND CONDENSATE ALARM OUTPUTS FROM EQUIPMENT SUPPLIED CONTROLS THROUGH DDC. SEND ALARM TO THE OPERATOR INTERFACE IF THE SPACE TEMPERATURE EXCEEDS 90° F (ADJUSTABLE). INTEGRATE ALL MONITORED PARAMETERS INTO EXISTING BMS AND CONNECT BACK TO VA SIOUX FALLS SYSTEM.

4
M600
CONTROLS
NO SCALE

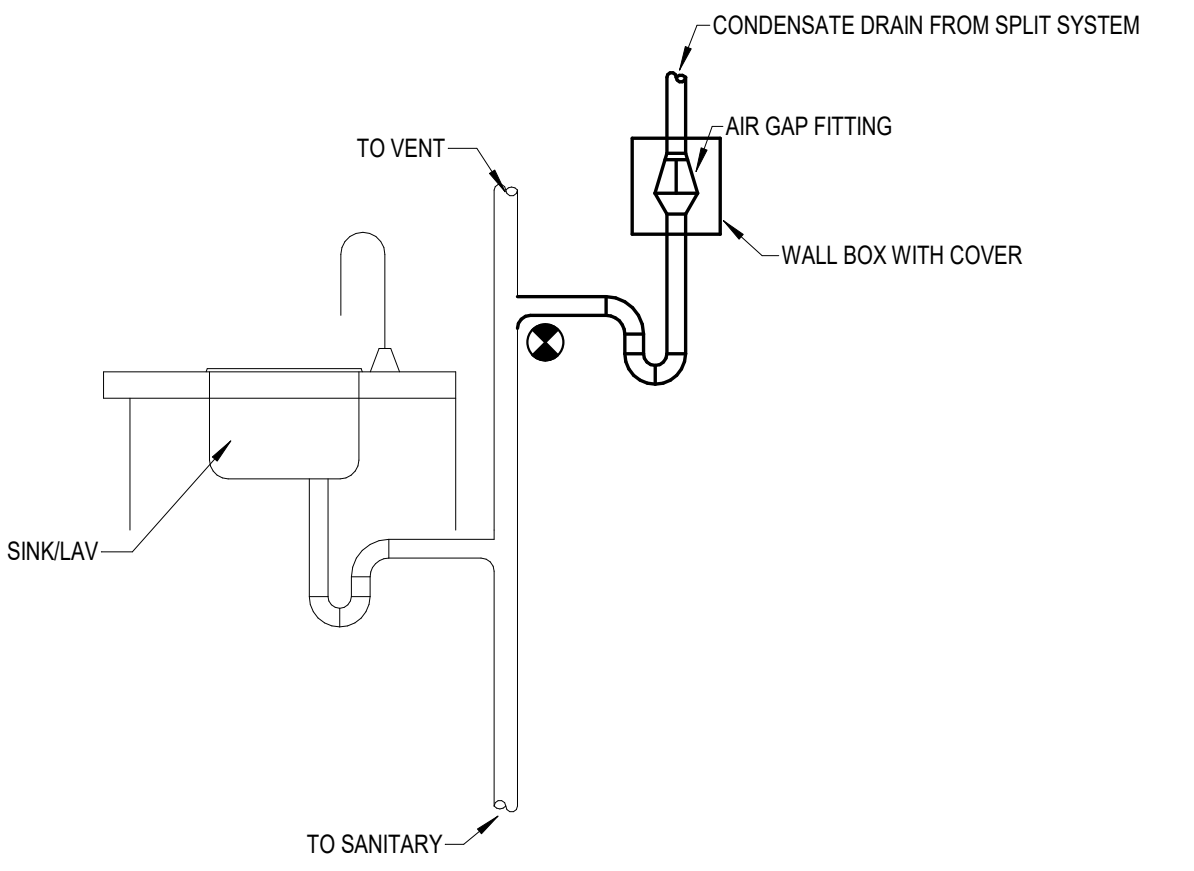


A. GROUP DEVICES IN AN ORGANIZED AND UNIFORM MANNER.
 B. PROVIDE BACKING IN WALLS WHERE WALL MOUNTED DEVICES OR EQUIPMENT ARE INSTALLED. REFER TO ARCHITECTURAL SPECIFICATIONS.

3
M600
MECHANICAL EQUIPMENT MOUNTING HEIGHTS
NO SCALE



2
M600
AIR-COOLED CONDENSING UNIT - ROOF MOUNTED
NO SCALE



1
M600
CONDENSATE TO SINK/LAV DETAIL
NO SCALE

| DUCT AND PLENUM INSULATION SCHEDULE | | | | | |
|-------------------------------------|-----------------|-------------------|-----------------------|-------------|-----------------------|
| DUCT SYSTEM TYPE | INSULATION TYPE | INSTALLED R VALUE | MINIMUM DENSITY LB/SF | JACKET TYPE | MICA PLATE NUMBER (1) |
| | | | | | |

ABBREVIATIONS: MF=MINERAL FIBER(FIBERGLASS), E= ELASTOMERIC, PI= POLYISOCYANURATE

REMARKS:
 1. PLATE NUMBER REFERENCED ARE PROVIDED TO CLARIFY THE SCOPE OF INSTALLATION. INSTALL INSULATION AND ACCESSORY COMPONENTS PER APPLICABLE MICA AND MANUFACTURERS RECOMMENDATIONS.

| HVAC PIPING INSULATION SCHEDULE | | | | | | | | | | |
|--|---------------------|--|----------|---------|-------|------|-------|-------------|-----------------------|---------|
| PIPING SYSTEM FLUID | TEMP. RANGE DEG. F. | THICKNESS IN INCHES FOR PIPE SIZES THROUGH SIZE LISTED | | | | | TYPE | JACKET TYPE | MICA PLATE NUMBER (1) | REMARKS |
| | | <1 | 1 - 1.25 | 1.5 - 3 | 4 - 6 | >= 8 | | | | |
| REFRIGERANT | AIR | 0.5 | 1 | 1 | 1 | NA | E | ASJ,SSL | 1-200 | |
| INDOOR CONDENSATE AND EQUIPMENT DRAINS | BELOW 60 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | MF, E | ASJ,SSL | 1-100, 1-200 | (2) |

ABBREVIATIONS: MF = MINERAL FIBER/FIBERGLASS, E = ELASTOMERIC, CG = CELLULAR GLASS

REMARKS:
 1. PLATE NUMBER REFERENCED ARE PROVIDED TO CLARIFY THE SCOPE OF INSTALLATION. INSTALL INSULATION AND ACCESSORY COMPONENTS PER APPLICABLE MICA AND MANUFACTURERS RECOMMENDATIONS.
 2. INCLUDES AIR CONDITIONING CONDENSATE, P-TRAPS FOR FLOOR DRAINS/SINKS RECEIVING AIR CONDITIONING CONDENSATE OR ICE MAKER DRAIN PIPING, AND SANITARY DRAINAGE PIPING FROM ELECTRIC WATER COOLERS TO MAIN.

| SPLIT SYSTEM AIR CONDITIONER SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|----------------------------|-------------------------|------------------------------|-----------------|---------|---------|--------------------|---------------|------------------|----------------|-----------------|-----|-----|-------------------------|-------------------------|------------------------|-----------------|---------|-------|---------|-----|------|---------------|------------|--------------|--|
| MARK | SERVES | NOMINAL CAPACITY [TONS] | TOTAL COOLING CAPACITY [MBH] | INDOOR UNIT | | | | | | OUTDOOR UNIT | | | | | ELECTRICAL DATA | | | | | REMARKS | | | | | | |
| | | | | DIMENSIONS [IN] | | | EAT (DB / WB) [°F] | AIRFLOW [CFM] | E.S.P. [IN W.C.] | MODEL | DIMENSIONS [IN] | | | SUMMER AMBIENT AIR [°F] | WINTER AMBIENT AIR [°F] | OPERATING WEIGHT [LBS] | MODEL | VOLTAGE | PHASE | | MCA | MOCP | DISCONNECT BY | SCCR | MANUFACTURER | |
| SSIU-112 | TELECOMMUNICATION ROOM 112 | 2 | 24 | 46" | 11 5/8" | 14 3/8" | 8067 | 700 | - | TPKAA0241KA70A | 37 7/16" | 13" | 37" | 95 | -15 | 0 | TRUYA0241HA70NA | 208 V | 1 | 19 | 26 | MECH | 6.8 | MITSUBISHI | (1) | |
| SSOU-112 | TELECOMMUNICATION ROOM 112 | 2 | 24 | | | | | | | | | | | | | | | | | | | | | | | |

REMARKS:
 1. PERFORMANCE BASED ON CONDITIONS INDICATED IN THIS SCHEDULE.
 2. PROVIDE CURB RAILS AND ROOF SUPPORTS FOR OUTDOOR UNIT.
 3. PROVIDE THE FOLLOWING ACCESSORIES: SINGLE POINT POWER CONNECTION, DISCONNECT, HAIL GUARDS, LOW AMBIENT KIT, WIND BAFFLES.
 4. "SCCR" VALUE INDICATED IS AVAILABLE SHORT CIRCUIT CURRENT (SCC) IN KILOAMPS AT THE EQUIPMENT BASED ON PRELIMINARY DESIGN PHASE CALCULATIONS. EQUIPMENT SCCR SHALL BE MINIMUM 120% OF THE AVAILABLE SCC. RATING SHALL BE ADJUSTED IF REQUIRED BASED ON FINAL SCC CALCULATION. EQUIPMENT INDICATED WITH 5 KA MAY BE PROVIDED WITH 5 KA SCCR. REVIEW SCCR WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT.

| DIFFUSER, REGISTER, AND GRILLE SCHEDULE | | | | | | | | | | | | |
|---|-------|---------------------------------|------------|----------|--------------|-----------|----------|-----------|----------|---------------------|-----------------|-----------|
| MARK | IMAGE | DESCRIPTION | MAX S.P. | MATERIAL | FINISH | FACE SIZE | | NECK SIZE | AIRFLOW | MANUFACTURER | MODEL | REMARKS |
| | | | | | | LENGTH | WIDTH | | | | | |
| D6 | | DOUBLE DEFLECTION SUPPLY GRILLE | 0.10 in-wg | STEEL | PAINT, WHITE | SEE PLAN | SEE PLAN | SEE PLAN | SEE PLAN | TITUS KRUEGER PRICE | 300RLSL 880 320 | (1)(2)(3) |

REMARKS:
 1. COORDINATE EXACT MODEL AND FRAME WITH CEILING / WALL TYPE.
 2. COORDINATE LOCATION OF GRILLES WITH ARCHITECTURAL CEILING PLANS AND ELEVATIONS.
 3. WHEN INSTALLED IN A WALL, THE BLADES FOR THESE GRILLES SHALL BE SUCH THAT THE FRONT BLADES ARE HORIZONTAL (PARALLEL TO THE FLOOR); WHEN INSTALLED IN A CEILING, THE BLADES FOR THESE GRILLES SHALL BE SUCH THAT THE FRONT BLADES ARE PARALLEL TO THE LONG DIMENSION OF THE GRILLE.

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

Drawing Title
MECHANICAL DETAILS, CONTROLS, & SCHEDULES
 Approved: _____

Phase
FINAL CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

Project Title
EHRM Infrastructure Upgrades Wagner CBOC
 Location
Wagner, SD
 Issue Date
12-13-2021
 Checked _____
 Drawn _____

Project Number
438-21-100WAG
 Building Number
--
 Drawing Number
M600

Lighting Fixture Symbols table with columns: PLAN SYMBOL, NAME, DESCRIPTION. Includes symbols for Emergency Hatch and Industrial Strip Light.

Lighting Device Symbols table with columns: PLAN SYMBOL, NAME, DESCRIPTION. Includes symbol for Light Switch.

Electrical Misc Symbols table with columns: PLAN SYMBOL, NAME, DESCRIPTION. Includes symbols for Branch Circuit Concealed in Ceiling or Wall, Conduit Break, Conduit Down, Conduit Stub-Out, Conduit Up, Howerun to Panel, and Switched Receptacle.

Electrical Equipment Symbols table with columns: PLAN SYMBOL, NAME, DESCRIPTION. Includes symbols for Low Voltage Panel and Panelboard - Surface.

Electrical Misc Symbol Legend table with columns: PLAN SYMBOL, NAME, DESCRIPTION. Includes symbols for Cable Tray, Ladder, and Lighting Control Tag.

Communication Symbol Legend table with columns: PLAN SYMBOL, NAME, DESCRIPTION. Includes symbols for 4 Post Communications Rack, Communications Fire Rated Pathway, Plywood Backboard, and Telecommunications Ground Bar.

Data Symbol Legend table with columns: PLAN SYMBOL, NAME, DESCRIPTION. Includes symbols for Communications Outlet - Wall and Data Cable.

Electrical Fixture Symbols table with columns: PLAN SYMBOL, NAME, DESCRIPTION. Includes symbols for Receptacle - Duplex - Conv.

Fire Alarm Symbols table with columns: PLAN SYMBOL, NAME, DESCRIPTION. Includes symbols for Detector - System Smoke - Ceiling, Fire Alarm Control Panel, and Smoke Damper.

One Line Symbol table with columns: PLAN SYMBOL, NAME, DESCRIPTION. Includes symbols for Continuation, Ground Bar, Grounding Electrode, Panel Board, Switchboard/Switchgear, Transformer, and Utility Meter.

Communication Symbols table with columns: PLAN SYMBOL, NAME, DESCRIPTION. Includes symbol for Wall Mount Communications Rack.

Electrical Fixture Symbol Legend table with columns: PLAN SYMBOL, NAME, DESCRIPTION. Includes symbol for Receptacle - NEMA.

Security Symbol Legend table with columns: PLAN SYMBOL, NAME, DESCRIPTION. Includes symbols for Access Control Device, Access Control Panel, Credential Card Reader, and Security Surveillance Camera.

Low Voltage Coordination Legend table with columns: SYSTEMS, ROUGH-IN'S & PATHWAYS, CABLING & TERMINATIONS, DEVICES & EQUIPMENT, REMARKS.

Legend (Low Voltage Coordination Legend) defining symbols for Contractor Furnished, Contractor Installed, Owner Furnished, and Owner Installed.

- Remarks (Low Voltage Coordination Legend) providing detailed notes for items 1 through 8 regarding patch panels, access control, fire alarm, patient monitoring, security surveillance, television, temperature monitoring, and wireless access points.

General Notes (Low Voltage Coordination Legend) providing additional instructions for rough-in, cabling, and equipment installation.

Electrical General Notes: GENERAL NOTES SHALL APPLY TO ALL SHEETS. BRANCH CIRCUITS WITH A TOTAL LENGTH LONGER THAN 75' SHALL UTILIZE #10 AWG CONDUCTORS. RECEPTACLE BRANCH CIRCUITS WITH A TOTAL LENGTH LONGER THAN 150' SHALL UTILIZE #8 AWG CONDUCTORS.

Electrical Abbreviations table with columns: ABBREVIATION, DESCRIPTION. Lists various electrical symbols and their corresponding descriptions.

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Revisions table with columns: Revisions, Date.

CONSULTANT logo and contact information for Specialized Engineering Solutions.

ARCHITECT/ENGINEER OF RECORD logo and contact information for Alesia Architecture.

STAMP logo for Bicsi Communications Distribution.

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

Drawing Title: ELECTRICAL SYMBOLS AND ABBREVIATIONS. Approved: [Signature]

Phase: FINAL CONSTRUCTION DOCUMENTS. FULLY SPRINKLERED

Project Title: EHRM Infrastructure Upgrades Wagner CBOC. Location: Wagner, SD. Issue Date: 12-13-2021. Checked: KSB. Drawn: NMT.

Project Number: 438-21-100WAG. Building Number: --. Drawing Number: E000.

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CABLING NOTES:

A. THE EXISTING CABLE COUNTS ARE THE CABLES CURRENTLY PRESENT IN THE SPACE. THE CABLE RELOCATION COUNT ARE THE NEW OR RELOCATED CABLES TO BE FED FROM THE SPACE. THE FINAL CABLE COUNT ARE THE CABLES THAT WILL BE PRESENT IN THE SPACE AT THE COMPLETION OF THE PROJECT. REMOVE ALL UNUSED CABLING AT THE COMPLETION OF THE PROJECT.

ROOM 109

EXISTING CABLE COUNT: 164
 CABLE RELOCATION COUNT: -164 TO ROOM 112
 EXISTING CABLE TO REMAIN: 0
 FINAL CABLE COUNT: 0

ROOM 112

EXISTING CABLE COUNT: 0
 CABLE RELOCATION COUNT: +164 FROM ROOM 109
 EXISTING CABLE TO REMAIN: 0
 FINAL CABLE COUNT: 164

PHASING

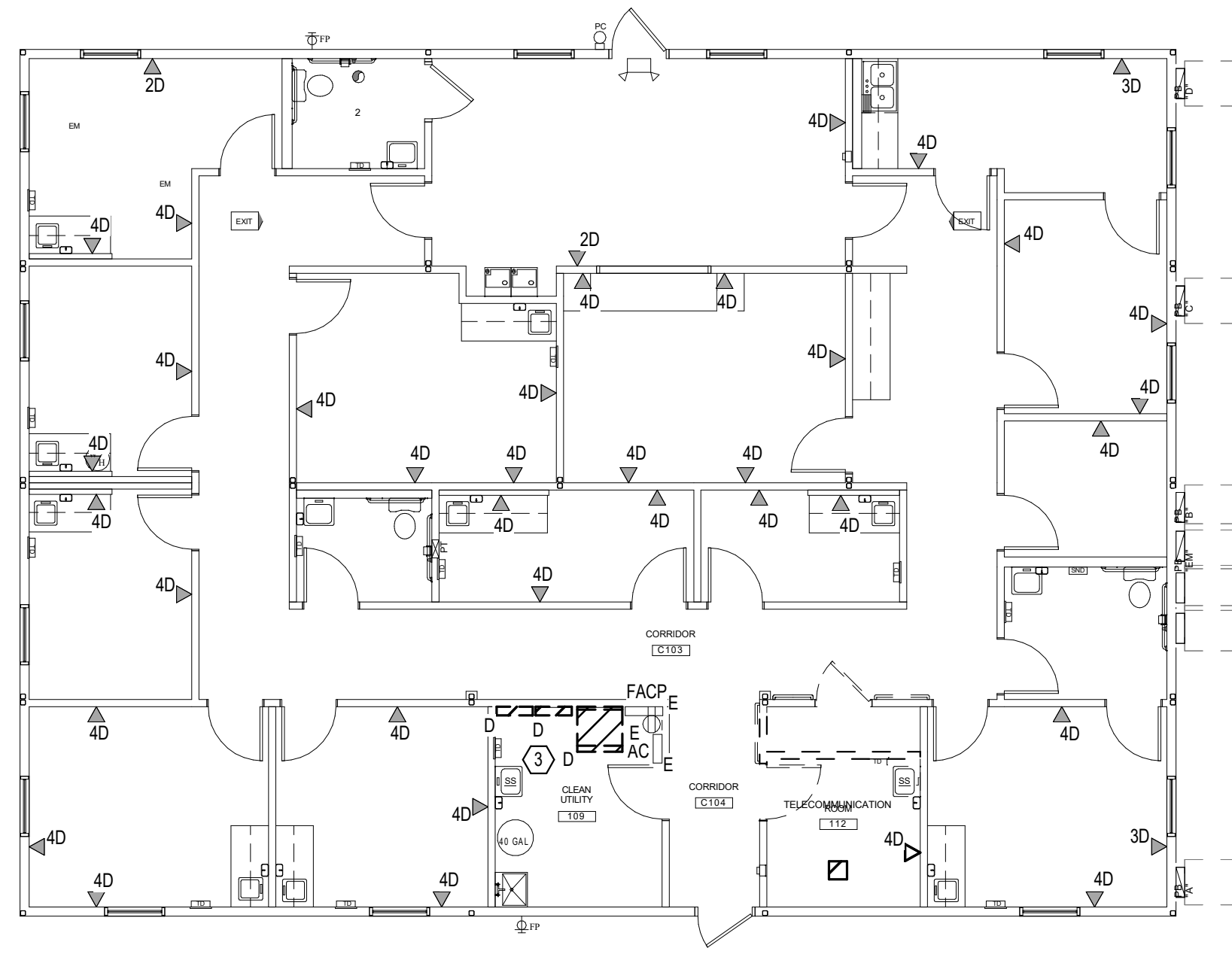
PHASING SEQUENCE LISTED BELOW IS FOR INFORMATION ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING PROJECT SCHEDULE AND PHASING AND SHALL INCLUDE WORK REQUIRED TO ACCOMMODATE PHASING. SUBMIT PHASING PLAN TO OWNER FOR REVIEW AND APPROVAL AND COORDINATE WITH OWNER PRIOR TO BEGINNING CONSTRUCTION.

1. CONSTRUCT THE NEW ENTRANCE FACILITY AND TELECOMMUNICATIONS ROOM. ROUTE NEW TELECOMMUNICATIONS PROVIDER ENTRANCE CABLING FROM PROVIDER PULLBOX TO NEW TELECOMMUNICATIONS ROOM. MAINTAIN THE EXISTING TELECOMMUNICATIONS ROOM AND ENTRANCE FACILITY AS CURRENTLY CONSTRUCTED UNTIL THE END OF THE PROJECT.
2. PROVIDE NEW CABLES FROM THE EXISTING OUTLETS TO THE NEW TELECOMMUNICATIONS ROOMS. REMOVE EXISTING CABLING AFTER THE NEW CABLES HAVE BEEN PULLED TO THE OUTLETS TO MAINTAIN OPERATIONAL CAPABILITY OF THE SPACES TO THE GREATEST EXTENT POSSIBLE.
3. AFTER NEW CABLING HAS BEEN INSTALLED, REMOVE EXISTING CABLING INCLUDING ANY PREVIOUSLY ABANDONED CABLING.

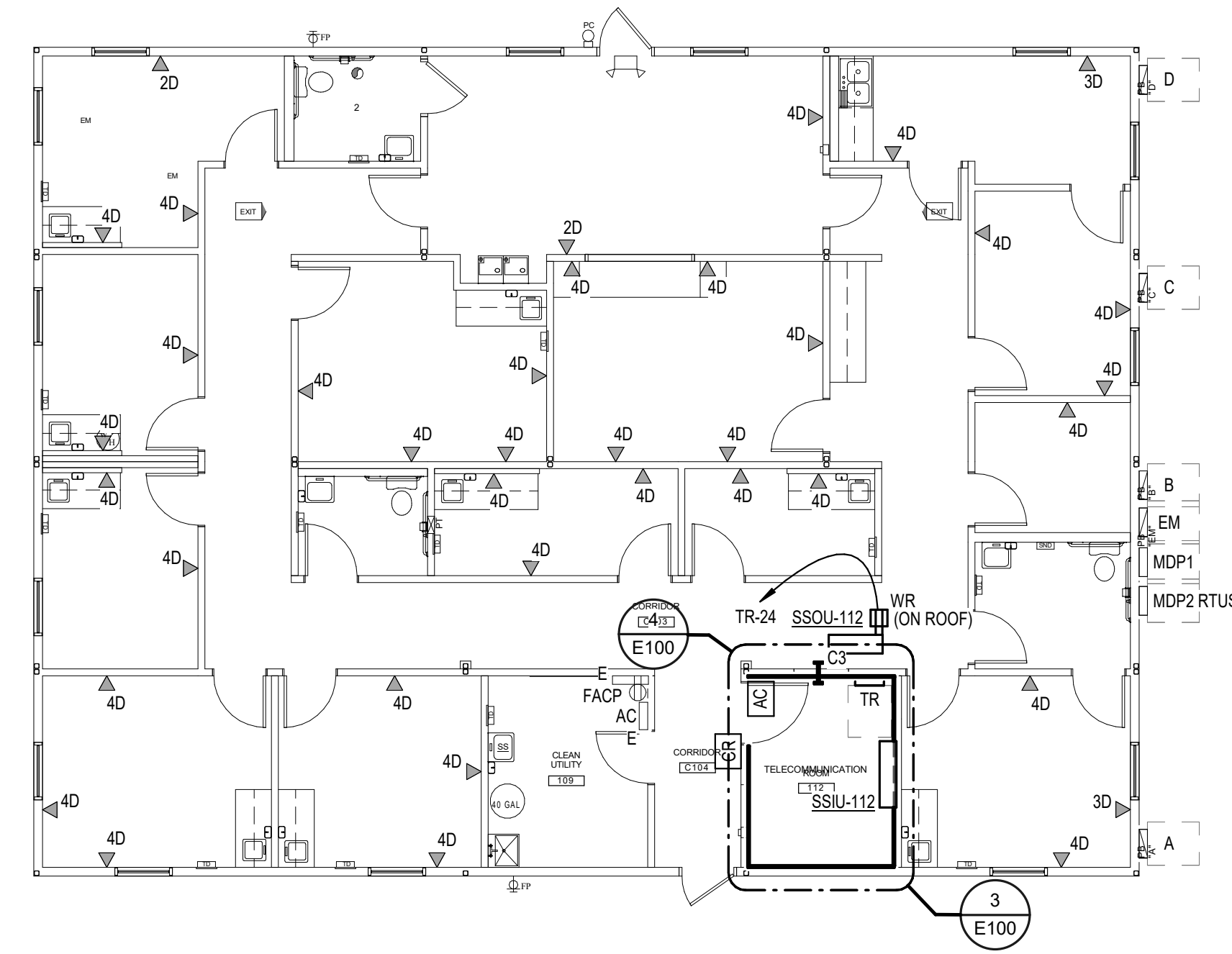
ELECTRICAL DEMOLITION GENERAL NOTES:

ELECTRICAL DEMOLITION NOTES APPLY TO ALL ELECTRICAL DEMOLITION PLANS AND ALL ELECTRICAL DEMOLITION WORK

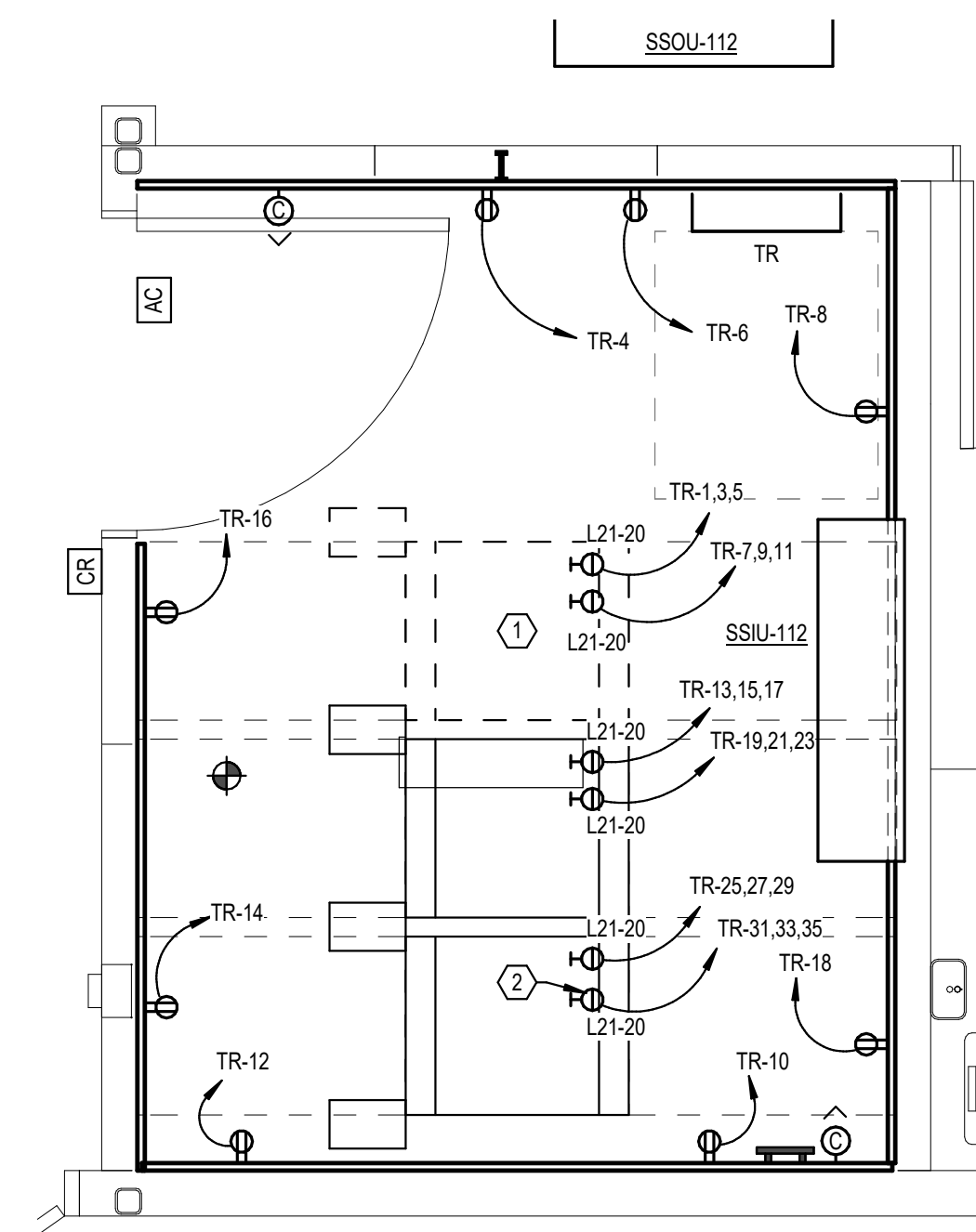
- THE INTENT OF THE DEMOLITION DRAWINGS IS TO DEFINE THE SCOPE OF ELECTRICAL DEMOLITION WORK. PROVIDE DEMOLITION FOR ITEMS AS SHOWN.
- ITEMS INDICATED WITH A SUBSCRIPT 'E' SHALL BE EXISTING TO REMAIN (E-EXISTING). ITEMS INDICATED WITH A SUBSCRIPT 'D' OR SHOWN DASHED SHALL BE REMOVED (D-DEMOLITION). ITEMS INDICATED WITH A SUBSCRIPT 'R' SHALL BE REMOVED, STORED, AND REINSTALLED PER NEW WORK (R-RELOCATION).
- THESE DRAWINGS DO NOT IDENTIFY EACH INDIVIDUAL ITEM TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ITEMS WHICH MUST BE REMOVED TO FACILITATE NEW CONSTRUCTION. SEE ARCHITECTURAL PLANS FOR EXACT LIMITS OF DEMOLITION AND CONSTRUCTION. THESE PLANS ARE BASED ON PAST PROJECT DRAWINGS AND SITE OBSERVATIONS. THE DRAWINGS ARE PROVIDED TO THE CONTRACTOR AS AN AID IN DETERMINING THE EXTENT OF WORK REQUIRED FOR DEMOLITION AND TO PROVIDE GENERAL INFORMATION ABOUT EXISTING SYSTEMS. THESE DRAWINGS MAY NOT BE ACCURATE IN ALL AREAS. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS AND IS ENCOURAGED TO REVIEW FACILITY DRAWINGS PRIOR TO THE BID DATE.
- THE OWNER SHALL HAVE FIRST SALVAGE RIGHTS TO ALL ITEMS REMOVED. IF OWNER REFUSES SALVAGE, CONTRACTOR IS RESPONSIBLE FOR DISPOSAL.
- WHERE EXISTING WALLS ARE TO BE REMOVED, ALL ASSOCIATED ELECTRICAL EQUIPMENT SHALL BE REMOVED. DISCONNECT POWER SO THAT DEVICES AND EQUIPMENT MAY BE REMOVED WITH WALLS. SEE ARCHITECTURAL DRAWINGS FOR WALLS TO BE REMOVED. ABANDON CONCEALED CONDUITS WHERE WALLS ARE NOT REMOVED. CONCEALED CONDUITS MAY BE REUSED WHERE AVAILABLE. WHERE EXISTING CIRCUITING/CABLING IS TO BE DEMOLISHED AND NOT REUSED, REMOVE CONDUCTORS AND ASSOCIATED ACCESSIBLE RACEWAYS/CONDUIT BACK TO THE SOURCE. WHERE EXISTING ELECTRICAL CONDUITS SERVING CIRCUITS TO BE DEMOLISHED ARE EMBEDDED IN CONCRETE FLOORS OR WALLS, CONDUITS MAY BE ABANDONED IN PLACE. EXISTING CONDUITS SHALL BE REMOVED BACK TO SOURCE AND CONDUITS FROM DEVICES BEING REMOVED MAY BE UTILIZED FOR NEW DEVICES WHERE LOCATIONS PERMIT. REMOVE AND PATCH WHERE BOXES ARE NOT REUSED.
- SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL ELECTRICAL DEMOLITION ITEMS. DISCONNECT AND REMOVE ELECTRICAL DEVICES, EQUIPMENT AND ASSOCIATED WIRING AS REQUIRED TO ACCOMMODATE NEW WORK. IF THE CONTRACTOR IS UNCLEAR REGARDING A SPECIFIC ITEM TO REMAIN OR BE REMOVED, THE CONTRACTOR SHALL SEEK CLARIFICATION FROM THE ARCHITECT.
- SYSTEMS SERVING ADJACENT AREAS AND ITEMS THAT REMAIN SHALL BE MAINTAINED AT ALL TIMES. MODIFY SYSTEMS AS REQUIRED THROUGHOUT CONSTRUCTION TO MAINTAIN CONTINUITY OF SERVICE. DO NOT INTERRUPT SERVICE WITHOUT OWNER'S PRIOR WRITTEN APPROVAL. LIMIT DURATION OF INTERRUPTION ONLY TO THE TIME NECESSARY FOR DISCONNECTION AND IMMEDIATE RECONNECTION. INTERRUPTION TO SERVICE DEEMED BY OWNER AS ESSENTIAL MAY REQUIRE PREMIUM TIME AND SHALL BE INCLUDED WITH THE BID. EXTREME CARE SHALL BE TAKEN BY THE CONTRACTOR TO IDENTIFY EXISTING SYSTEM COMPONENTS ASSOCIATED WITH THESE SERVICES. APPROPRIATE METHODS OF MARKING THESE SHALL OCCUR TO ELIMINATE THE POSSIBILITY OF ACCIDENTAL INTERRUPTION. FOR CONDUIT AND CABLING THAT CAN REMAIN, PROVIDE SUPPORT AS REQUIRED. RELOCATE EXISTING JUNCTION BOXES THAT BECOME INACCESSIBLE DUE TO NEW WORK.
- COORDINATE DEMOLITION WITH THE WORK OF OTHER TRADES. PROVIDE TEMPORARY POWER AND LIGHTING AS REQUIRED TO ALLOW THE WORK OF OTHER TRADES TO PROCEED.
- PROTECT EXISTING ELECTRICAL EQUIPMENT THAT REMAINS. IF DAMAGED OR DISTURBED IN THE COURSE OF THE WORK, REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL CAPACITY, QUALITY, AND FUNCTIONALITY.
- PATCH AND REPAIR OPENINGS IN EXISTING WALLS AND FLOORS RESULTANT FROM SPECIFIED ELECTRICAL DEMOLITION. PATCH SHALL MATCH EXISTING CONSTRUCTION, FIRE RATING, AND FINISH. SEE ARCHITECTURAL SPECIFICATIONS FOR MEANS AND METHODS.
- THIS PROJECT WILL BE PHASED. SEE PROJECT MANUAL AND ARCHITECTURAL PLANS FOR DETAILS. SYSTEM SERVICES TO AREAS NOT IN THE CURRENT PHASE OF CONSTRUCTION SHALL BE MAINTAINED AT ALL TIMES.
- WHERE DEMOLITION OF EQUIPMENT INVOLVES REMOVAL OF EQUIPMENT LOCATED ON CONCRETE HOUSEKEEPING PADS, PADS SHALL ALSO BE REMOVED AND FLOOR/GRADE SHALL BE FINISHED TO MATCH ADJACENT SURFACE.
- ALL UNLABELED ELECTRICAL DEVICES WITH CIRCUITRY OR DEVICES MODIFIED DURING CONSTRUCTION SHALL BE CIRCUIT TRACED AS NEEDED WITH A LABEL PROVIDED.



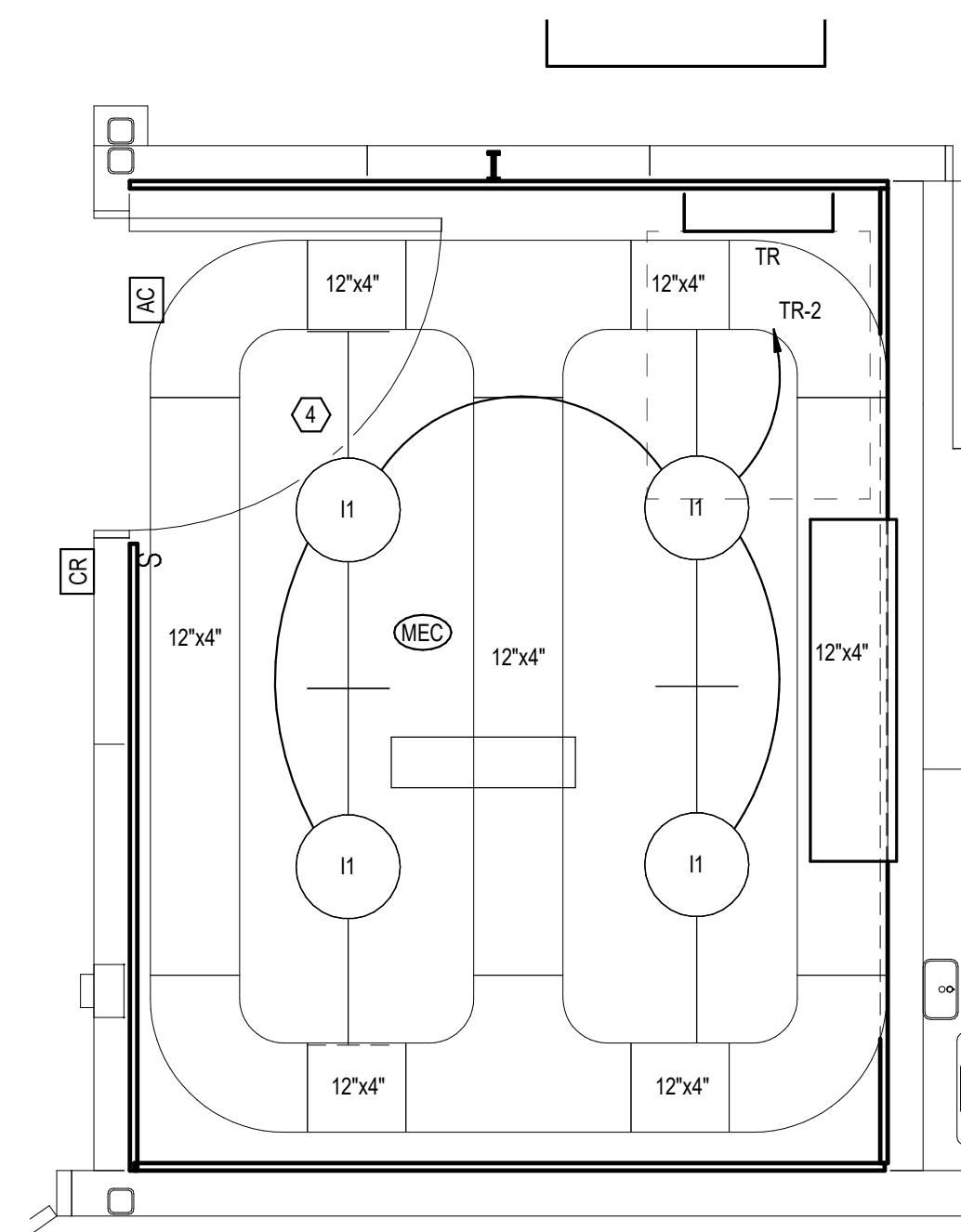
1 FIRST LEVEL FLOOR PLAN - OVERALL - ELECTRICAL - DEMOLITION
 1/8" = 1'-0"



2 FIRST LEVEL FLOOR PLAN - OVERALL - ELECTRICAL
 1/8" = 1'-0"



3 ENLARGED TELECOMMUNICATIONS ROOM - POWER AND DATA
 1/2" = 1'-0"



4 ENLARGED TELECOMMUNICATIONS ROOM - LIGHTING AND CABLE TRAY
 1/2" = 1'-0"

SHEET NOTES:

1. SPACE RESERVED FOR FUTURE TELECOMMUNICATIONS RACK.
2. MOUNT RECEPTACLE TO CABLE TRAY ABOVE RACK (TYPICAL). FIELD COORDINATE EXACT MOUNTING REQUIREMENTS.
3. DEMOLISH COPPER AND FIBER ENTRANCE CABLING AFTER NEW TELECOMMUNICATIONS ROOM HAS BEEN CONSTRUCTED AND IS OPERATIONAL.
4. MOUNT LIGHTS LEVEL WITH BOTTOM OF CABLE TRAY.

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 EXPIRES 12-31-23
 12/13/2021
 RCD

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
LEVEL 1 FLOOR PLANS - ELECTRICAL

Approved: _____

Phase
FINAL CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
**EHRM Infrastructure Upgrades
 Wagner CBOC**

Location
Wagner, SD

Issue Date
12-13-2021

Checked
KSB

Drawn
NMT

Project Number
438-21-100WAG

Building Number
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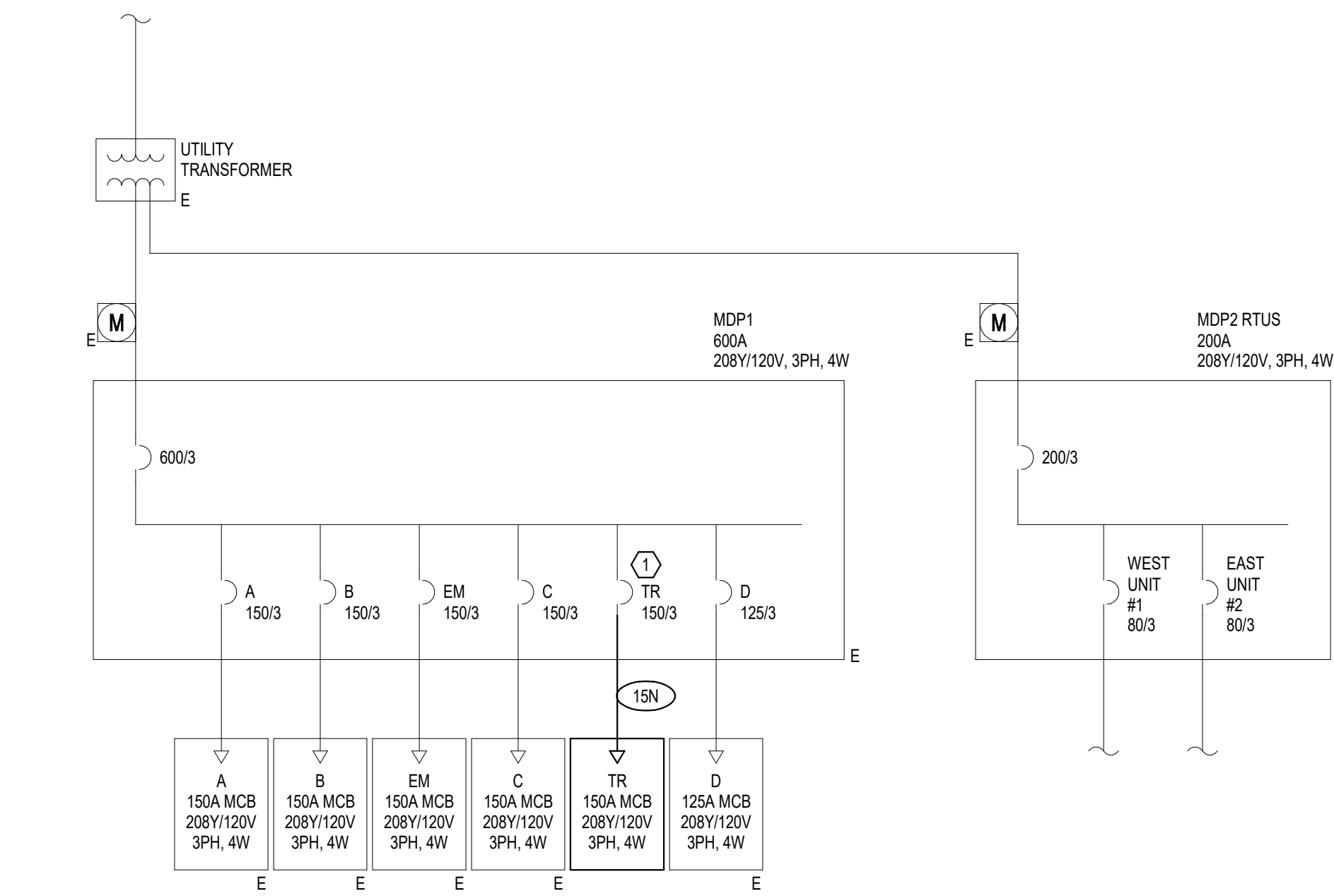
Drawing Number
E100

EQUIPMENT CONNECTION SCHEDULE table with columns: MARK, DESCRIPTION, FLA, MCA, MOCP, VOLTS, PHASE, POLES, LOAD [VA], CONTROL TYPE, DISCONNECT BY, DISCONNECT TYPE, FEEDER, PANEL, CIRCUIT NUMBER, SCCR, GEN, REMARKS.

REMARKS: (EQUIPMENT CONNECTION SCHEDULE)
1. CONTROLS BETWEEN INDOOR AND OUTDOOR UNITS - INCLUDE CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNIT PER MANUFACTURER'S REQUIREMENTS.

GENERAL NOTES: (EQUIPMENT CONNECTION SCHEDULE)
A. EQUIPMENT LISTED MAY NOT BE UNIQUE. VERIFY QUANTITY WITH FLOOR PLANS. WHERE LOCATIONS ARE NOT INDICATED ON ELECTRICAL FLOOR PLANS, REFER TO MECHANICAL SHEETS. REFER TO DEFINITIONS BELOW FOR CLARIFICATIONS OF CONNECTION REQUIREMENTS.
B. ITEMS NOTED AS "NA" ARE NOT APPLICABLE TO THE CONNECTION.
C. CONTROL TYPE - PROVIDE CONTROL AND CONNECTIONS:
- "NT" = CONTROLS ARE MANUFACTURED INTEGRAL TO THE EQUIPMENT (SELF-CONTAINED).
- "CONT" = EQUIPMENT OPERATES CONTINUOUSLY (NO CONTROLS). FOR MOTORS WITHOUT INTERNAL OVERLOAD PROTECTION, PROVIDE SEPARATE OVERLOAD PROTECTION. OVERLOAD PROTECTION MAY BE PROVIDED AS PART OF A MANUAL MOTOR STARTER.
- "DDC" = CONTROL SIGNAL FROM TEMPERATURE CONTROL SYSTEM PROVIDED BY MECHANICAL CONTRACTOR OR TEMPERATURE CONTROLS CONTRACTOR.
- "TIME SW" = CONTROL SIGNAL FROM TIME SWITCH PROVIDED BY ELECTRICAL CONTRACTOR.
- "TIME SW" SHALL BE TON/DIGITAL TYPE WITH AUTOMATIC DAYLIGHT SAVINGS ADJUSTMENTS AND BATTERY BACKUP. LOCATE TIMESWITCH IN NEAREST MECHANICAL OR ELECTRICAL UTILITY ROOM. LABEL TIME SWITCH. COORDINATE TIME SCHEDULE WITH OWNER AND MECHANICAL ENGINEER.
- "WALL SW" = CONTROL SIGNAL FROM WALL SWITCH PROVIDED BY ELECTRICAL CONTRACTOR.
- COORDINATE LOCATION OF WALL SWITCH WITH OWNER. LABEL WALL SWITCH.
- "FA STOP" = FANS WITH CFM OF 2000 OR GREATER AND FANS SERVING DUCTS CONTAINING SMOKE DAMPERS.
- PROVIDE FIRE ALARM SYSTEM DUCT SMOKE DETECTORS AT RETURN-SIDE AND SUPPLY-SIDE OF FAN/UNIT. PROVIDE MULTIPLE DETECTORS IF REQUIRED TO ACCOMMODATE MAIN DUCT TAKE-OFFS WHERE A SINGLE DETECTOR CANNOT BE INSTALLED TO CAPTURE ALL AIRFLOW. FIRE ALARM SYSTEM SHALL SHUTDOWN FAN UPON DETECTION OF SMOKE IN DUCT OR ROOMS SERVED FROM THIS EQUIPMENT. PROVIDE WITH INDIVIDUAL FIRE ALARM SYSTEM ADDRESSABLE CONTROL MODULE AT MOTOR CONTROLLER/STARTER AND CONNECT TO SHUTDOWN FAN.
- "FA START" = FANS USED FOR SMOKE EVACUATION OR PRESSURIZATION.
- FIRE ALARM SYSTEM SHALL START FAN UPON DETECTION OF SMOKE IN DUCT OR ROOMS SERVED FROM THIS EQUIPMENT. PROVIDE WITH INDIVIDUAL FIRE ALARM SYSTEM ADDRESSABLE CONTROL MODULE AT MOTOR CONTROLLER/STARTER AND CONNECT TO START FAN.
- "DATA" = PROVIDE WITH DATA CONNECTION FROM NEAREST DATA NETWORK COMMUNICATIONS ROOM.
- "CONDUIT" - PROVIDE EMPTY 3/4" CONTROL CONDUIT BETWEEN INDOOR AND OUTDOOR UNIT TO ACCOMMODATE CONTROL CABLING BY MECHANICAL OR TEMPERATURE CONTROLS CONTRACTOR.
D. DISCONNECT BY:
- "MECHANICAL" = DISCONNECT IS FURNISHED BY MECHANICAL CONTRACTOR OR PROVIDED WITH MECHANICAL EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL PROVIDE MOUNTING AND ADDITIONAL CONNECTIONS REQUIRED FOR LOOSE DISCONNECTS FURNISHED BY THE MECHANICAL CONTRACTOR.
- "ELECTRICAL" = DISCONNECT IS FURNISHED BY ELECTRICAL CONTRACTOR. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT FURNISHED BY MECHANICAL CONTRACTOR.
- "MANUFACTURER" = DISCONNECT IS FURNISHED BY EQUIPMENT MANUFACTURER. ELECTRICAL CONTRACTOR SHALL PROVIDE MOUNTING AND ADDITIONAL CONNECTIONS REQUIRED FOR LOOSE DISCONNECTS FURNISHED BY EQUIPMENT MANUFACTURER.
E. DISCONNECT TYPE - PROVIDE DISCONNECT/RECEPTACLE AT EQUIPMENT LOCATION AND ASSOCIATED CONNECTION TO EQUIPMENT AND BRANCH CIRCUIT:
- "NEMA" = DUPLEX (TP) RECEPTACLE TO ACCOMMODATE CORD AND PLUG CONNECTION (CORD AND PLUG FURNISHED WITH EQUIPMENT UNLESS NOTED OTHERWISE).
- "REC SW" = PROVIDE 20A 120V RECEPTACLE OR 20A TOGGLE SWITCH DISCONNECT.
- COORDINATE REQUIRED SELECTION WITH EQUIPMENT.
- "NF" = NON-FUSED DISCONNECT. SIZE AND POLE QUANTITY AS INDICATED. 20A AND SMALLER SHALL BE TOGGLE SWITCH DISCONNECT.
- "F" = FUSED DISCONNECT. SIZE AND POLE QUANTITY AS INDICATED.
- FUSE PER MANUFACTURER'S RECOMMENDATIONS.
- "FUSSTAT" = SWITCH AND FUSSTAT FUSE SIZE PER EQUIPMENT MANUFACTURER.
- LOCATE SWITCH IN CONCEALED ACCESSIBLE LOCATION.
- "ENCL CB" = ENCLOSED CIRCUIT BREAKER DISCONNECT.
- SIZE, POLE QUANTITY, AND FLUSH/SURFACE MOUNTING AS INDICATED.
- "ENCL MCB" = ENCLOSED MOLDED CASE SWITCH DISCONNECT.
- SIZE, POLE QUANTITY, AND FLUSH/SURFACE MOUNTING AS INDICATED.
- "SHUNT ENCL CB" = SHUNT TRIP ENCLOSED CIRCUIT BREAKER DISCONNECT.
- SIZE, POLE QUANTITY, AND FLUSH/SURFACE MOUNTING AS INDICATED. PROVIDE WITH INTEGRAL 120V CONTROL TRANSFORMER SERVED FROM LINE SOURCE WITH PRIMARY AND SECONDARY FUSING. COORDINATE ENCLOSURE AND COVER SIZE TO ACCOMMODATE TRANSFORMER. PROVIDE WITH EQUIPMENT GROUND BAR AND SEPARATE INSULATED GROUND BAR. WHERE NEUTRAL CONDUCTOR IS UTILIZED, PROVIDE SOLID NEUTRAL BAR. CONNECT SHUNT TRIP VOLTAGE SOURCE AND ACTUATOR TO ASSOCIATED EMERGENCY POWER (EPO) SWITCHES. PROVIDE EPO AND COORDINATE LOCATION.
- "LOCK CB" = CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE OPEN POSITION, LOCATED IN THE SOURCE ELECTRICAL PANEL. THE PROVISIONS FOR LOCKING MUST REMAIN IN PLACE WITH OR WITHOUT THE LOCK INSTALLED.
- "MAN" = COMBINATION MAGNETIC MOTOR STARTER WITH DISCONNECT (COORDINATE COIL VOLTAGE WITH CONTROL SOURCE). LOCATE COMBINATION MAGNETIC MOTOR STARTER TO SERVE AS THE MOTOR DISCONNECT. WHERE STARTER SERVES OUTDOOR EQUIPMENT, LOCATE STARTER IN THE SOURCE ELECTRICAL ROOM.
- "MAN" = COMBINATION MANUAL MOTOR STARTER WITH DISCONNECT. LOCATE COMBINATION MANUAL MOTOR STARTER TO SERVE AS THE MOTOR DISCONNECT. WHERE STARTER SERVES OUTDOOR EQUIPMENT, LOCATE STARTER IN THE SOURCE ELECTRICAL ROOM.
- "VFD" = VARIABLE FREQUENCY DRIVE CONTROLLER. LOCATE VARIABLE FREQUENCY DRIVE CONTROL TO SERVE AS THE MOTOR DISCONNECT.
- "NT" = DISCONNECT IS MANUFACTURED INTEGRAL TO THE EQUIPMENT.
- "HW" = HARDWARE. DISCONNECT NOT REQUIRED.
- LOCATE DISCONNECT ADJACENT TO EQUIPMENT PER NEC. PROVIDE WITH STRUT MOUNTING AS REQUIRED.
- LOCATE RECEPTACLE OR JUNCTION BOX TO DIRECTLY SERVE EQUIPMENT.
- COORDINATE EXACT LOCATION WITH ARCHITECT. ARCHITECTURAL DETAILS, AND EQUIPMENT MANUFACTURER'S REQUIREMENTS.
- WHERE DISCONNECT SERVES OUTDOOR EQUIPMENT, PROVIDE AS NEMA-3R.
- PROVIDE DISCONNECT WITH EQUIPMENT GROUND KIT.
- WHERE FEEDER INDICATED UTILIZES A NEUTRAL, PROVIDE DISCONNECT WITH SOLID NEUTRAL KIT.
- WHERE FEEDER INDICATED UTILIZES AN ISOLATED GROUND, PROVIDE DISCONNECT WITH ADDITIONAL INSULATED GROUND KIT.
- DISCONNECTS NOT SHOWN AS "F" OR "NF" SHALL BE NON-FUSED.
- DISCONNECTS OF MOTORS SERVED FROM A VFD SHALL CONTAIN AUXILIARY CONTACTS CONNECTED TO THE VFD TO DISABLE VFD UPON DISCONNECT.
- WHERE STARTERS OR VFD'S CONTAIN INTEGRAL DISCONNECTS AND ARE LOCATED PER NEC TO SATISFY AS THE EQUIPMENT DISCONNECT, AN ADDITIONAL EQUIPMENT DISCONNECT IS NOT REQUIRED.
F. "GEN" - EQUIPMENT IS SERVED FROM A SOURCE PANEL PROVIDED WITH GENERATOR BACK-UP.
G. "SCCR" - VALUE INDICATED IS AVAILABLE SHORT CIRCUIT CURRENT (SCCR) IN KILOMIPS AT THE EQUIPMENT BASED ON PRELIMINARY DESIGN PHASE CALCULATIONS. EQUIPMENT SCCR SHALL BE MINIMUM 120% OF THE AVAILABLE SCC. RATING SHALL BE ADJUSTED IF REQUIRED BASED ON FINAL SCC CALCULATION. EQUIPMENT INDICATED WITH 5 KA MAY BE PROVIDED WITH 5 KA SCCR.

FEEDER SCHEDULE - COPPER table with columns: FEEDER, NOMINAL SIZE, WIRE AND CONDUIT.



1 ELECTRICAL ONE-LINE NO SCALE

ONE-LINE GENERAL NOTES:
(GENERAL NOTES SHALL APPLY TO ALL ONE-LINE SHEETS)
A. MECHANICAL EQUIPMENT NOT SHOWN ON ONE-LINE. REFER TO PANEL SCHEDULES FOR COMPLETE LIST OF CIRCUIT BREAKER SIZES AND QUANTITIES REQUIRED.

SHEET NOTES:
1. USE EXISTING SPARE CIRCUIT BREAKER IN PANEL MDP1 TO FEED NEW PANEL TR.

LIGHTING FIXTURE SCHEDULE table with columns: MARK, DESCRIPTION, SUBS, MANUFACTURER, CATALOG # (NOTE A), LAMP / NOMINAL LUMENS, CCT, MINIMUM CRI, VOLTAGE, INPUT WATTS, MOUNTING, REMARKS.

REMARKS: (LIGHTING FIXTURE SCHEDULE)
1. PENDANT/SUSPENSION MOUNTING - COORDINATE EXACT LOCATION, MOUNTING ELEVATION, AND REQUIRED PENDANT/SUSPENSION LENGTH WITH ARCHITECT AND ARCHITECTURAL DETAILS.

GENERAL NOTES: (LIGHTING FIXTURE SCHEDULE)
A. CATALOG NUMBER VERIFICATION - CONTRACTOR SHALL VERIFY LIGHTING FIXTURE INSTALLATION REQUIREMENTS AND CATALOG NUMBER PRIOR TO ORDERING.
B. SUBSTITUTIONS - WHERE INDICATED WITH "N" (NO), NO SUBSTITUTIONS WILL BE ACCEPTED. WHERE INDICATED WITH "P" (PRIOR APPROVAL), SUBSTITUTIONS MUST BE APPROVED PRIOR TO BID WITH ACCEPTANCE ISSUED BY ADDENDUM. WHERE INDICATED WITH "Y" (YES), THE FOLLOWING MANUFACTURER'S ARE CONSIDERED ACCEPTABLE EQUIVALENT MANUFACTURER'S. PROVIDED THE EQUIVALENT FIXTURE IS OF THE SAME QUALITY, EFFICIENCY, PERFORMANCE AND CHARACTERISTICS AS THAT SCHEDULED.
1. ACUIY BRANDS
2. EATON/COOPER BRANDS
3. HUBBELL
4. WILLIAMS
5. PHILIPS/SIGNIFY BRANDS
C. FINISH - WHERE CATALOG NUMBER LISTED INDICATES "" IN LIEU OF MANUFACTURER'S FINISH OPTION, COORDINATE WITH ARCHITECT FOR EXACT FINISH PRIOR TO ORDERING.

LIGHTING CONTROL SCHEDULE table with columns: TAG, ROOM TYPE, OCC, DAY LT, AUX, NETWK, REC, SEQUENCE OF OPERATION.

GENERAL NOTES: (LIGHTING CONTROL SCHEDULE)
A. SUBMIT MANUFACTURER INTERCONNECTION DIAGRAMS INDICATING DEVICE QUANTITIES, LOCATIONS, AND ASSOCIATED CONTROLS CABLING FOR APPROVAL.
B. REFER TO LIGHTING PLAN FOR WALL DEVICE TYPES, QUANTITIES, AND LOCATIONS. REFER TO SYMBOL LEGEND FOR LIGHTING PUSH BUTTON TYPE DESCRIPTIONS.
C. DEVICE QUANTITIES NOT INDICATED. PROVIDE TYPE AND QUANTITY OF DEVICES AS REQUIRED TO PROVIDE COMPLETE COVERAGE OF SPACE AND INTENDED SYSTEM OPERATION.
D. WHERE 0-LEVEL SWITCHING AND AUTO ON TO 50% ARE USED IN THE SAME SPACE, THE ZONE THAT IS AUTOMATICALLY TURNED ON SHALL BE CONTROLLED BY THE BOTTOM BUTTON OF WALL DEVICES.
E. WHERE PHOTOCELLS ARE BEING UTILIZED FOR DAYLIGHT HARVESTING, PROVIDE ADDITIONAL COMPONENTS AS NEEDED TO CONTROL LIGHTING WITHIN DAYLIGHT ZONES INDEPENDENT OF GENERAL AREA LIGHTING WITHIN SPACE. PROVIDE MINIMUM OF (1) PHOTOCELL DEVICE PER DAYLIGHT ZONE.
F. UNLESS NOTED OTHERWISE, LIGHTING SHALL UTILIZE CONTINUOUS DIMMING AND EXTERIOR LIGHTING SHALL UTILIZE MULTILEVEL STEP DIMMING.
G. UNDERCABINET LIGHTING SHALL BE SWITCHED SEPARATELY FROM MAIN ROOM LIGHTING. UNDERCABINET LIGHTING SHALL BE CONTROLLED BY THE AUTO OFF FUNCTION OF OCCUPANCY SENSORS.
H. WHERE PHOTOCELLS ARE UTILIZED FOR DAYLIGHT HARVESTING, TARGET ILLUMINANCE LEVELS SHALL BE MEASURED AT WORK PLANE OF PRIMARY TASK IN SPACE.
I. COORDINATE PROGRAMMING OF BUSINESS HOURS WITH OWNER PRIOR TO OCCUPANCY.
J. DEVICES:
- "OCCT" - OCCUPANCY SENSOR. PROVIDE TYPE INDICATED BELOW. CEILING MOUNT UNLESS NOTED OTHERWISE.
- "PI" - PASSIVE INFRARED.
- "US" - ULTRASONIC/MICROPHONIC.
- "DT" - DUAL TECHNOLOGY.
- "NO" - NO OCCUPANCY SENSOR.
- "DAYLIGHT" - DAYLIGHT CONTROLS. CEILING MOUNT UNLESS NOTED OTHERWISE.
- "TR" = PROVIDE DAYLIGHT PHOTOCELL. PHOTOCELLS MAY NOT BE COMBINED WITH OCCUPANCY SENSORS UNLESS NOTED OTHERWISE.
- "NO" = NO DAYLIGHT PHOTOCELL.
- "AUX" - AUXILIARY CONTACT.
- "TR" = PROVIDE AUXILIARY CONTACT/RELAY TO INDICATE OCCUPANCY FOR USE BY OTHER SYSTEMS. AUXILIARY CONTACT/RELAY MAY BE INTEGRATED WITH OCCUPANCY SENSOR. AUXILIARY CONTACTS MAY BE OMITTED IF SYSTEM IS FULLY NETWORKED AND ROOM STATUS IS COMMUNICATED TO OTHER SYSTEMS THROUGH SOFTWARE INTEGRATION. COORDINATE WITH OTHER SYSTEMS AND CONFIRM THIS DESIGN IS ACCEPTABLE WITH OWNER AND ENGINEER PRIOR TO ORDERING PARTS.
- "NO" = NO AUXILIARY CONTACT.
- "NETWK" - NETWORKED LIGHTING CONTROL COMMUNICATIONS.
- "TR" = NETWORK ROOM DEVICES TO BUILDING-WIDE LIGHTING CONTROLS NETWORK COMMUNICATIONS.
- "NO" = BUILDING-WIDE LIGHTING CONTROLS NETWORK COMMUNICATIONS NOT REQUIRED TO THIS ROOM.
- "REC" - CONTROLLED RECEPTACLES.
- "TR" = PROVIDE AUTOMATIC CONTROL OF SELECTED RECEPTACLES WITHIN SPACE. REFER TO POWER PLAN FOR RECEPTACLES TO BE CONTROLLED.
- "NO" = NO CONTROLLED RECEPTACLES.

LIGHTING PANEL: TR table with columns: CKT, CIRCUIT DESCRIPTION, OPT, RATING, POLES, A, B, C, POLES, RATING, OPT, CIRCUIT DESCRIPTION, CKT. Includes load classification and options.

Revisions table with columns: Revisions, Date.

CONSULTANT logo for SES SPECIALIZED ENGINEERING SOLUTIONS.

ARCHITECT/ENGINEER OF RECORD logo for ALESIA ARCHITECTURE.

STAMP logo for BICSI COMMUNICATIONS DISTRIBUTION.

Office of Construction and Facilities Management logo.

Drawing Title: ONE-LINE DIAGRAM AND SCHEDULES. Approved: [Signature]

Phase: FINAL CONSTRUCTION DOCUMENTS. FULLY SPRINKLERED.

Project Title: EHRM Infrastructure Upgrades Wagner CBOC. Location: Wagner, SD. Issue Date: 12-13-2021. Checked: KSB. Drawn: NMT.

Project Number: 438-21-100WAG. Building Number: --. Drawing Number: E500.

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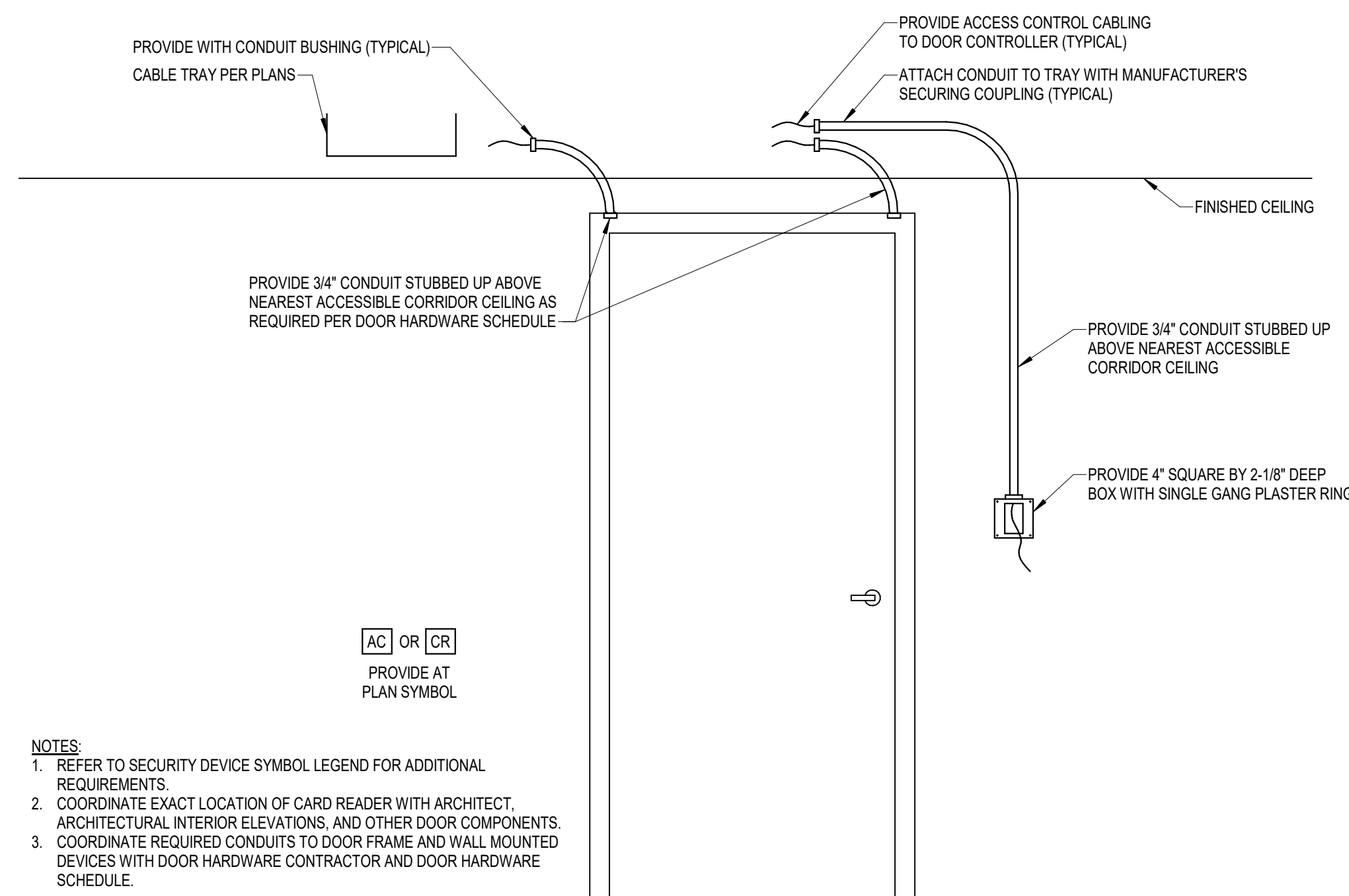
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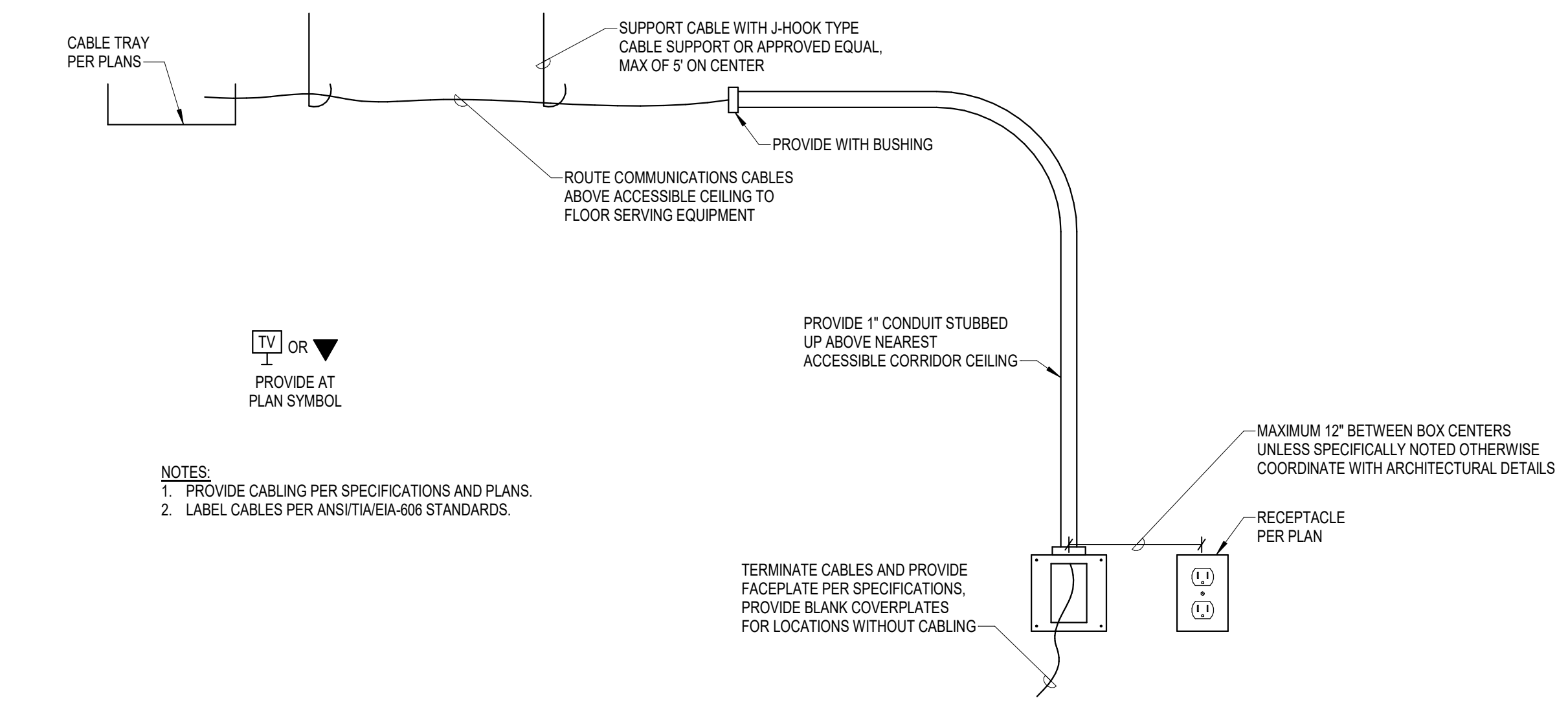
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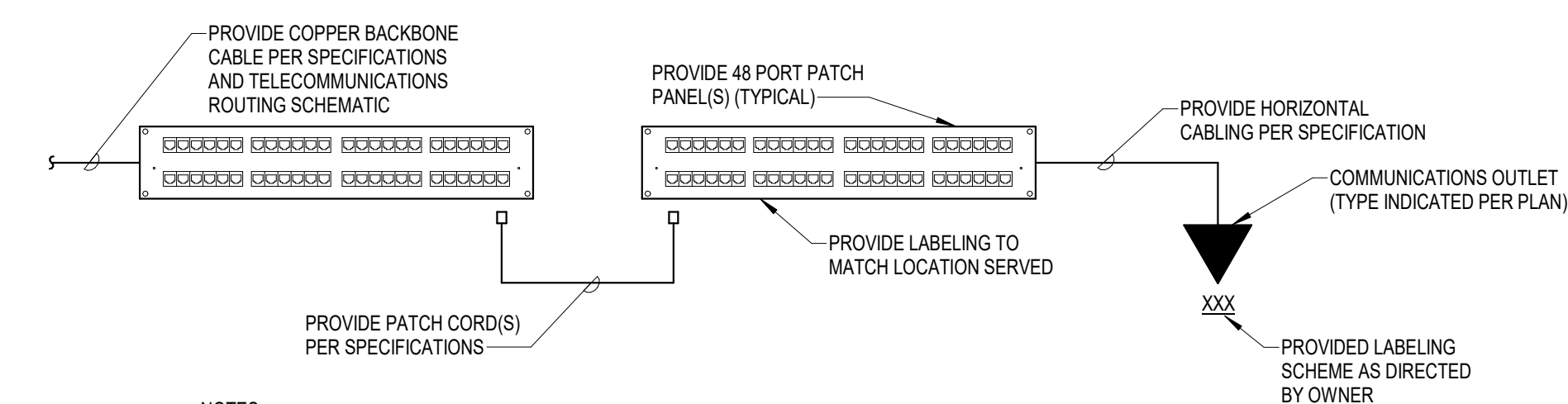
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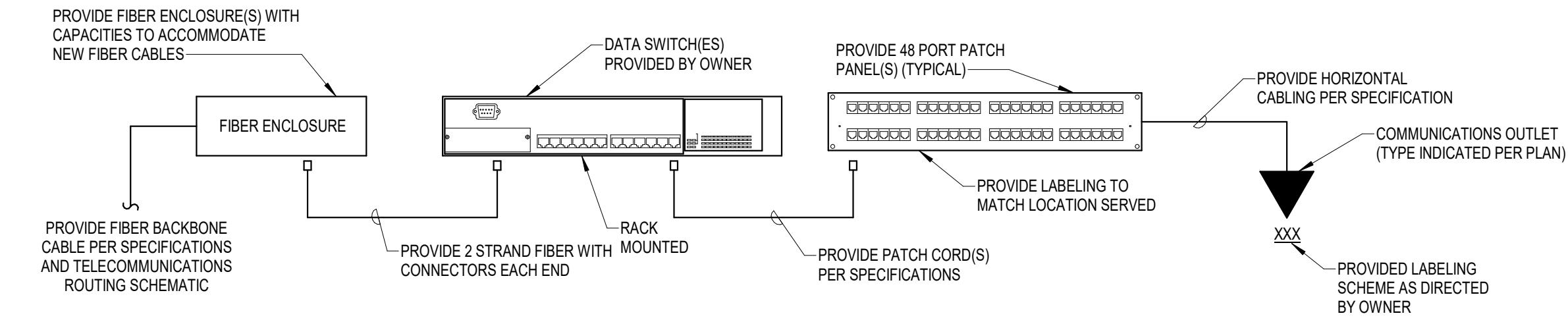
1 ACCESS CONTROL ROUGH-IN
E600 NO SCALE



2 COMMUNICATIONS OUTLET - STUB TO CORRIDOR
E600 NO SCALE



4 TYPICAL COMMUNICATION TERMINATION - VOICE (PATCH PANELS)
E600 NO SCALE



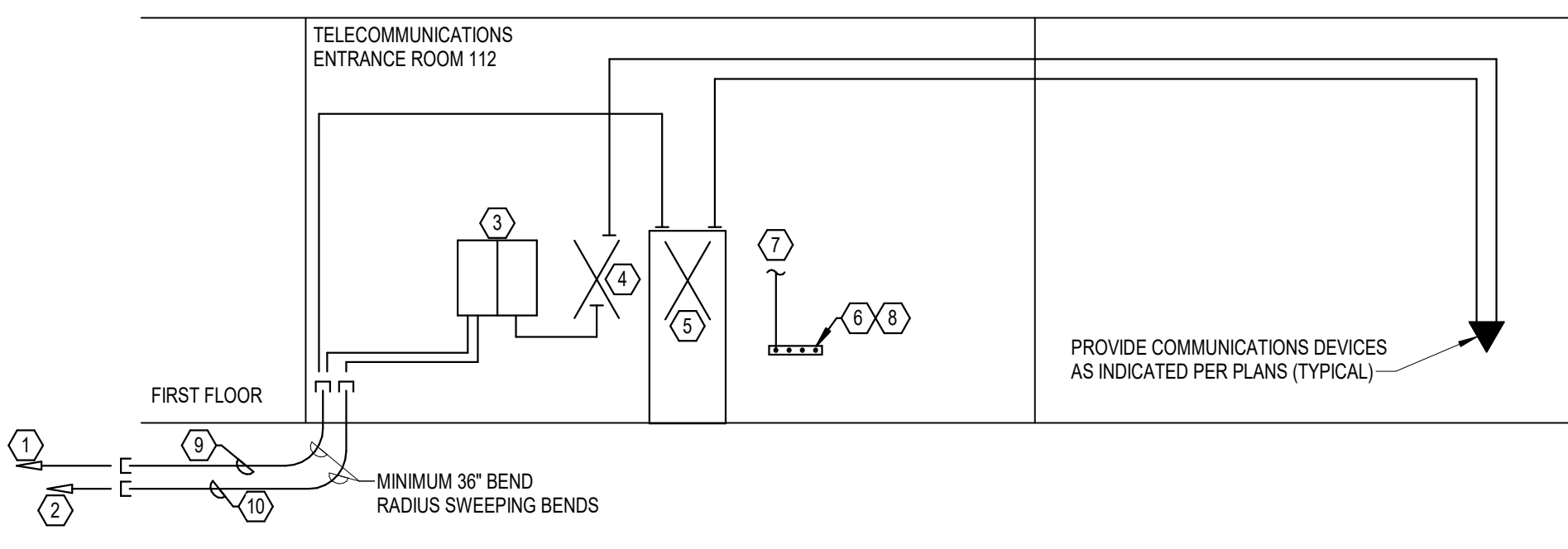
5 TYPICAL COMMUNICATION TERMINATION - VOIP & DATA (PATCH PANELS)
E600 NO SCALE

TELECOMMUNICATIONS ROUTING SCHEMATIC SHEET NOTES:

1. TELECOMMUNICATIONS SERVICE PROVIDER FIBER ENTRANCE BACKBONE. COORDINATE REQUIREMENTS WITH UTILITY COMPANY.
2. TELECOMMUNICATIONS SERVICE PROVIDER COPPER ENTRANCE BACKBONE. COORDINATE REQUIREMENTS WITH UTILITY COMPANY.
3. PROVIDE SOLID STATE PRIMARY PROTECTION FOR EACH COPPER PAIR LOCATED WITHIN ENCLOSURE.
4. REFER TO TYPICAL COMMUNICATION TERMINATION - VOICE (PATCH PANELS) DETAIL (TYPICAL).
5. REFER TO TYPICAL COMMUNICATION TERMINATION - VOIP & DATA (PATCH PANELS) DETAIL (TYPICAL).
6. TELECOMMUNICATIONS GROUND BAR. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
7. BOND TO CABLE TRAY, TELECOM RACK, RACK MOUNTED EQUIPMENT, LOW VOLTAGE CABINETS, AND VOICE/DATA SERVICE DEVICES WITH #8 COPPER IN ONE (1) 3/4\"/>

TELECOMMUNICATIONS ROUTING SCHEMATIC GENERAL NOTES:

- A. UTILIZE CONDUITS, SLEEVES, J-HOOKS, AND CABLE TRAY INDICATED PER PLANS FOR ROUTING AND SUPPORTING COMMUNICATIONS CABLING.
- B. COORDINATE PROJECT PHASING WITH OWNER AND ARCHITECTURAL DOCUMENTS.
- C. CABLES ROUTING THRU OCCUPIED AREAS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO WORK BEING STARTED.
- D. UTILIZE CORRIDORS FOR ROUTING COMMUNICATIONS CABLING.
- E. COORDINATE OPENINGS THRU FLOORS AND CEILINGS WITH STRUCTURAL.
- F. VERTICAL ROUTED CABLES SHALL BE SUPPORTED AT 18\"/>



3 TELECOMMUNICATIONS ROUTING SCHEMATIC
E600 NO SCALE

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RCD

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL DETAILS

Approved:

Phase
FINAL CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM Infrastructure Upgrades
Wagner CBOC

Location
Wagner, SD

Issue Date
12-13-2021

Checked
KSB

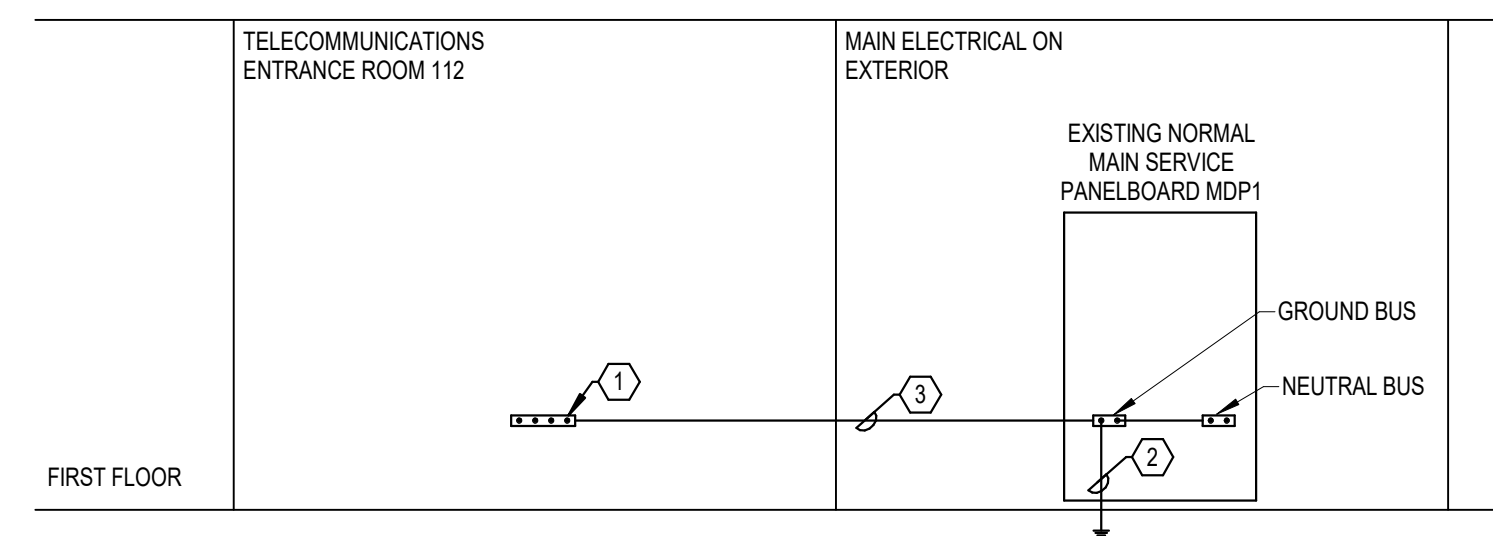
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Project Number
438-21-100WAG

Building Number
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Drawing Number
E600

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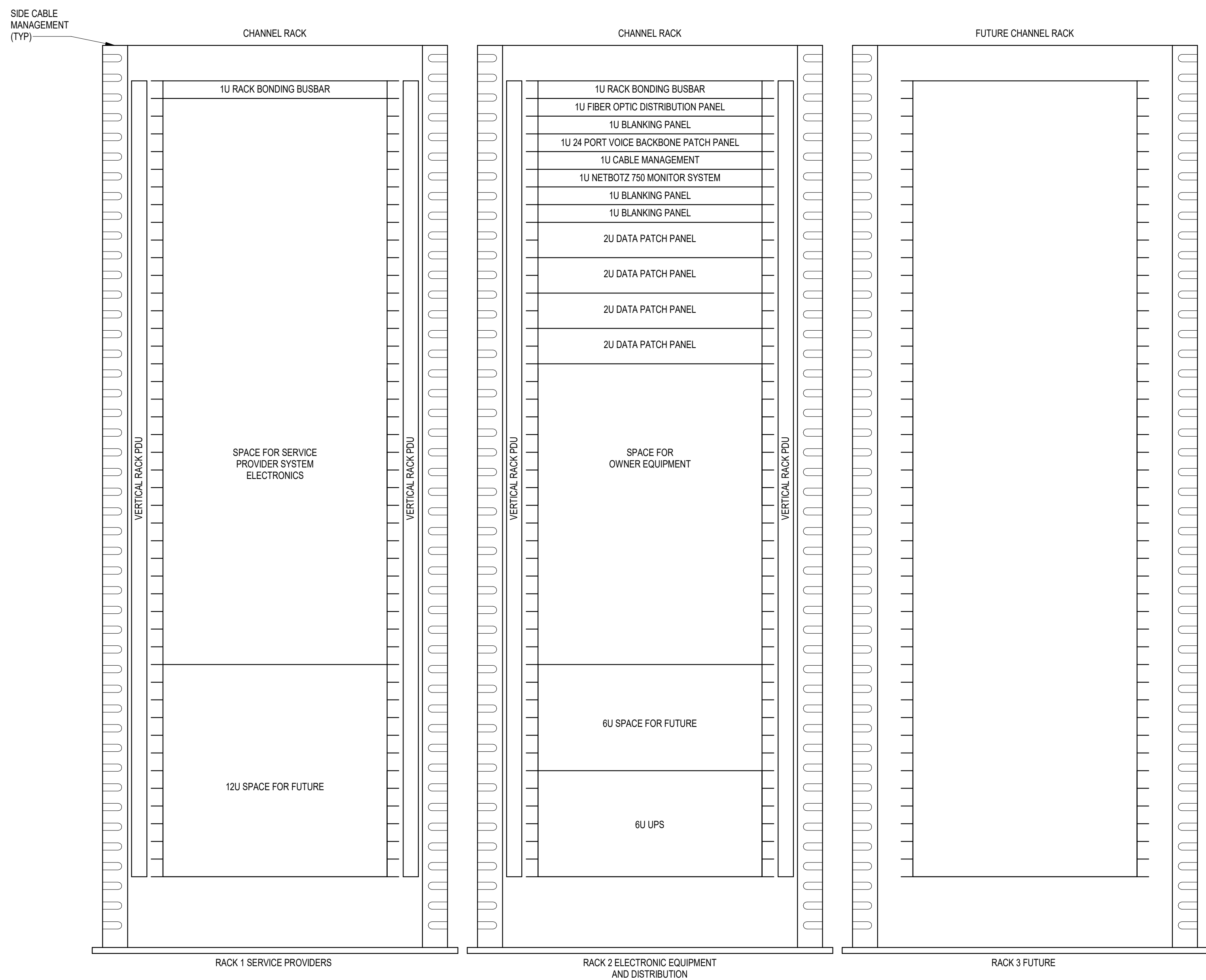


- GROUNDING SCHEMATIC SHEET NOTES:**
- TELECOMMUNICATIONS GROUND BAR. REFER TO SPECIFICATIONS FOR REQUIREMENTS. REFER TO TELECOMMUNICATIONS ROUTING SCHEMATIC FOR BONDING TO TELECOMMUNICATIONS COMPONENTS.
 - EXISTING GROUNDING ELECTRODE CONNECTIONS.
 - BOND TELECOMMUNICATIONS GROUNDING RISER TO ELECTRICAL GROUNDING RISER WITH #2/0 COPPER IN ONE (1) 1" CONDUIT. GROUNDING RISERS SHALL ONLY BE BONDED TOGETHER AT THIS LOCATION.
- GROUNDING SCHEMATIC GENERAL NOTES:**
- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - ELECTRICAL CONNECTIONS SHALL BE FIRMLY BONDED AT ALL TERMINATIONS. REFER TO SPECIFICATIONS FOR ACCEPTABLE CONNECTION TYPES FOR GROUNDING SYSTEM COMPONENTS.
 - BOND TO ALL GROUNDING ELECTRODES PRESENT WITHIN BUILDING.

B

1 GROUNDING SCHEMATIC
E601 / NO SCALE

C



- NOTES:**
- COORDINATE FINAL RACK LAYOUT WITH OWNERS ISIT REPRESENTATIVE.
 - PROVIDE COMPONENTS NOT LISTED BY OWNERS.
 - SEE SPECIFICATION FOR ADDITIONAL RACK COMPONENTS.
 - COORDINATE EXACT RACK LOCATION WITH OWNER PRIOR TO PERMANENT INSTALLATION.
 - REFER TO NEW WORK PLAN FOR RACK LOCATIONS.
 - CONTRACTOR IS RESPONSIBLE FOR FINAL DEVICE COUNT AND QUANTITY OF PATCH PANELS, SWITCHES, FIBER ENCLOSURES, AND CABLE MANAGEMENT REQUIRED.
 - COORDINATE INSTALLATIONS WITH OWNERS ISIT REPRESENTATIVE.

D

E

2 RACK ELEVATION - ROOM 112
E601 / NO SCALE

| Revisions: | Date: |
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STAMP

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title
ELECTRICAL DETAILS

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Phase
FINAL CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

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Wagner CBOC

Location
Wagner, SD

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Checked
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Drawn
NMT

Project Number
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Building Number
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Drawing Number
E601