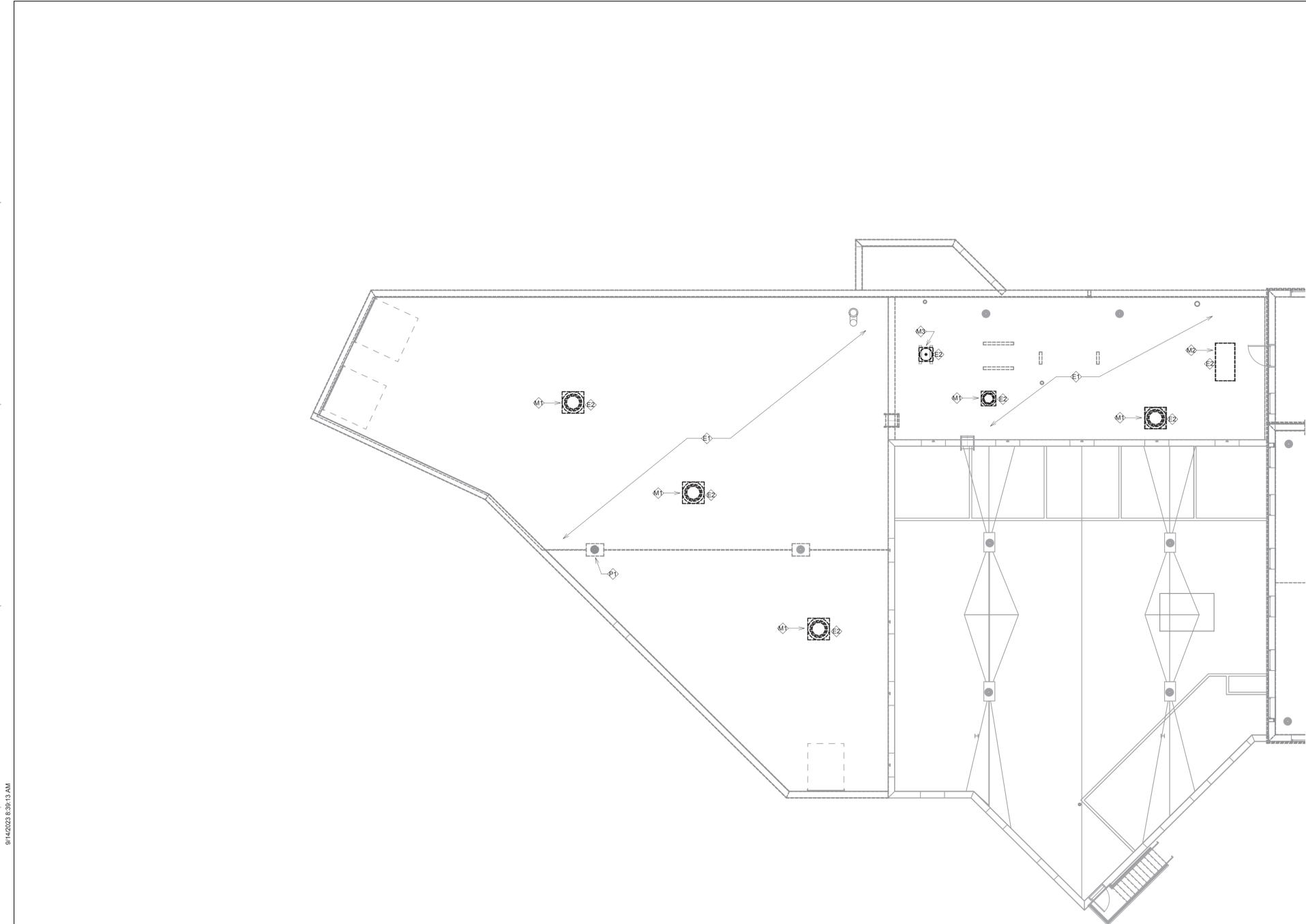


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 one half inch = one foot
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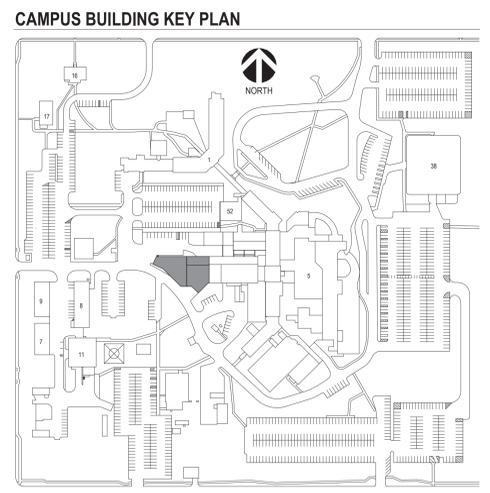
- GENERAL NOTES:**
- MECHANICAL CONTRACTOR SHALL REFER TO SPECIFICATION MANUAL EDITED FOR THIS PROJECT ALONG WITH ANY APPLICABLE STANDARDS. ALL REQUIREMENTS OF THOSE MANUALS SHALL BE MAINTAINED IN ADDITION TO ALL NOTES AND DESCRIPTIONS INDICATED WITHIN THESE DRAWINGS. ANY CONFLICTS BETWEEN THOSE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION.
 - WHERE APPLICABLE (FOR ANY INTERIOR STORM DRAIN PIPING SHOWN INSTALLED WITHIN BUILDINGS S AND SB). COORDINATE ALL NEW PIPE ROUTING WITH ALL OTHER EXISTING UTILITIES TO ENSURE ADEQUATE CLEARANCES FOR ELECTRICAL CONDUIT, HVAC DUCTWORK & PIPING, STRUCTURAL SUPPORTS, ETC. PROVIDE ALL OFFSETS & TRANSITIONS AS REQUIRED FOR A CLEAN INSTALLATION.
 - NOTE THAT ALL INTERIOR STORM DRAIN, AND OVERFLOW STORM DRAIN, PIPING MUST BE FULLY INSULATED ON BOTH HORIZONTAL AND VERTICAL PIPE SECTIONS. REFER TO SPECIFICATION FOR LABELING OF PIPING AND IDENTIFICATION OF CLEANOUT ACCESS POINTS.
 - THE EXACT LOCATION OF EXISTING ROOFTOP EQUIPMENT ROUGH-INS SHALL BE VERIFIED PRIOR TO REMOVAL AND REPLACEMENT. CONTRACTOR TO VERIFY SOURCE OF ALL SERVICES FOR ISOLATION.
 - SUPPORT ALL PIPING DIRECTLY TO STRUCTURE. DO NOT SUPPORT ANY PIPING FROM DUCTWORK, CONDUIT OR OTHER PIPING ENCOUNTERED.
 - WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED OR DISTURBED DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.
 - COORDINATE ALL NEW ROOF DRAIN INSTALLATIONS. CONFIRM REQUIRED SIZE OF PENETRATION THROUGH STRUCTURAL ROOF TO BE DRILLED OR CUT BY THE CONTRACTOR. INFILL AROUND DRAIN BODY AND INCORPORATE INTO ROOFING MEMBRANE OR SYSTEM AS REQUIRED FOR WATER TIGHT SEAL.
 - THE PLUMBING CONTRACTOR SHALL PROVIDE ALL PIPING, FITTINGS, VALVES & ACCESSORIES AS REQUIRED FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
 - CONTRACTOR TO PROVIDE CRANE RIGGING/PICK PLANS AT LEAST FOUR(4) WEEKS PRIOR TO SCHEDULED DATE. SUBMIT PLANS TO VA COR TO DISTRIBUTE TO APPROPRIATE SAFETY OFFICERS FOR DISRUPTION PLANNING. ALL DATES ARE TENTATIVE UNTIL APPROVED.
 - WHERE APPLICABLE ON INTERIOR WORK. PROVIDE CLEANOUTS AT BASE OF EVERY STORM DRAIN LEADER PRIOR TO PENETRATING SLAB ON GRADE. REFER TO SPECIFICATIONS THAT ALL PIPING, ABOVE AND BELOW GRADE, MUST BE FABRICATED OF CAST IRON.
 - CONTRACTOR SHALL MAINTAIN ACCURATE RECORD DRAWINGS SHOWING ALL DISCREPANCIES WITH ANY EXISTING PIPING INDICATED OR REVISIONS TO THE NEW PLUMBING OR FIRE PROTECTION LAYOUTS. ALL CHANGES WILL BE UPDATED WITHIN FINAL RECORD DRAWINGS.

- KEY NOTES: PLUMBING DEMOLITION**
- REMOVE EXISTING ROOF DRAIN AND SALVAGE FOR REINSTALLATION TO NEW LOW POINT INDICATED ON DRAWING 05 MEP122. CONTRACTOR MODIFY EXISTING STORM DRAIN PIPING WITHIN WAREHOUSE AREA BELOW AND INFILL REMAINING ROOF PENETRATION IN PREPARATION OF NEW ROOFING INSTALLATION.

- KEY NOTES: MECHANICAL DEMOLITION**
- TEMPORARILY REMOVE EXISTING POWERED ROOF VENTILATOR (PRV) FAN AND CURB COUNTERFLASHING TO ALLOW ROOFING CONTRACTOR TO APPLY NEW MEMBRANE FLASHING AROUND EXISTING CURB. COORDINATE DISCONNECT/RECONNECT OF POWER AND/OR CONTROL WIRING WITH ASSOCIATED SUBCONTRACTORS.
 - TEMPORARILY REMOVE EXISTING INTAKE HOOD AND CURB. COUNTERFLASHING TO ALLOW ROOFING CONTRACTOR TO APPLY NEW MEMBRANE FLASHING AROUND EXISTING CURB. NOTIFY VA OF VENTILATION OUTAGE CAUSED BY MOMENTARILY BLOCKING INTAKE.
 - RECLAIM REFRIGERANT AND TEMPORARILY REMOVE AND REINSTALL SMALL CONDENSING UNIT AND CURB COUNTERFLASHING AS REQUIRED FOR RE-ROOFING OF SUPPORT RAILS ASSOCIATED WITH THIS EQUIPMENT.

- KEY NOTES: ELECTRICAL DEMOLITION**
- CONTRACTOR TO DOCUMENT EXISTING LAYOUT FOR REINSTALLATION. DISCONNECT LIGHTNING PROTECTION SYSTEM. PROTECT AIR TERMINALS, CONDUCTORS, AND FITTINGS FOR REINSTALLATION.
 - DISCONNECT ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT. COORDINATE WITH VA COR AND MECHANICAL CONTRACTOR IF TEMPORARY POWER IS REQUIRED.

DEMOLITION MECHANICAL, ELECTRICAL, PLUMBING ROOF PLAN - G, H, I
 1/8" = 1'-0"
 NORTH



Revision#	Description	Date:

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

Drawing Title
M/E/P ROOF PLAN - DEMOLITION - G, H, I

Approved:

Phase
CONSTRUCTION DOCUMENTS

FOR OFFICIAL USE ONLY

Project Title
SIoux FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS

Location
SIoux FALLS, SOUTH DAKOTA

Issue Date
 09-15-2023

Checked
 JRG

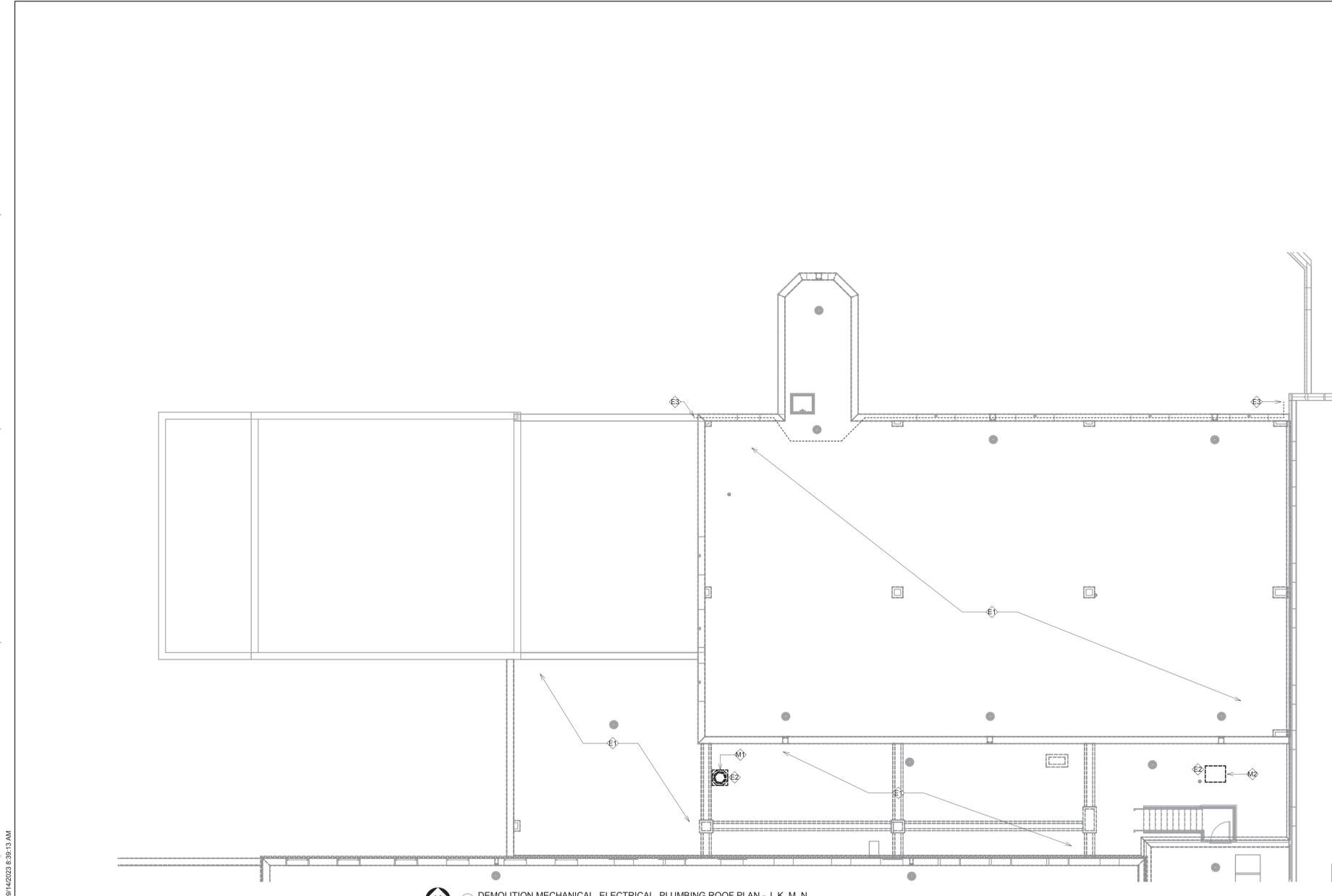
Drawn
 JG, TM, BZ

Project Number
 VA #VA #438-22-600
 SGA #221926

Building Number
 05

Drawing Number
05.MEPD122

Three inches = one foot
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 one inch = one foot
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1 DEMOLITION MECHANICAL, ELECTRICAL, PLUMBING ROOF PLAN - J, K, M, N
 1/8" = 1'-0"

- GENERAL NOTES:**
- MECHANICAL CONTRACTOR SHALL REFER TO SPECIFICATION MANUAL EDITED FOR THIS PROJECT ALONG WITH ANY APPLICABLE STANDARDS. ALL REQUIREMENTS OF THOSE MANUALS SHALL BE MAINTAINED IN ADDITION TO ALL NOTES AND DESCRIPTIONS INDICATED WITHIN THESE DRAWINGS. ANY CONFLICTS BETWEEN THOSE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION.
 - WHERE APPLICABLE (FOR ANY INTERIOR STORM DRAIN PIPING SHOWN INSTALLED WITHIN BUILDINGS S AND SB). COORDINATE ALL NEW PIPE ROUTING WITH ALL OTHER EXISTING UTILITIES TO ENSURE ADEQUATE CLEARANCES FOR ELECTRICAL CONDUIT, HVAC DUCTWORK & PIPING, STRUCTURAL SUPPORTS, ETC. PROVIDE ALL OFFSETS & TRANSITIONS AS REQUIRED FOR A CLEAN INSTALLATION.
 - NOTE THAT ALL INTERIOR STORM DRAIN, AND OVERFLOW STORM DRAIN, PIPING MUST BE FULLY INSULATED ON BOTH HORIZONTAL AND VERTICAL PIPE SECTIONS. REFER TO SPECIFICATION FOR LABELING OF PIPING AND IDENTIFICATION OF CLEANOUT ACCESS POINTS.
 - THE EXACT LOCATION OF EXISTING ROOFTOP EQUIPMENT ROUGH-INS SHALL BE VERIFIED PRIOR TO REMOVAL AND REPLACEMENT. CONTRACTOR TO VERIFY SOURCE OF ALL SERVICES FOR ISOLATION.
 - SUPPORT ALL PIPING DIRECTLY TO STRUCTURE. DO NOT SUPPORT ANY PIPING FROM DUCTWORK, CONDUIT OR OTHER PIPING ENCOUNTERED.
 - WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED OR DISTURBED DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.
 - COORDINATE ALL NEW ROOF DRAIN INSTALLATIONS. CONFIRM REQUIRED SIZE OF PENETRATION THROUGH STRUCTURAL ROOF TO BE DRILLED OR CUT BY THE CONTRACTOR. INFILL AROUND DRAIN BODY AND INCORPORATE INTO ROOFING MEMBRANE OR SYSTEM AS REQUIRED FOR WATER TIGHT SEAL.
 - THE PLUMBING CONTRACTOR SHALL PROVIDE ALL PIPING, FITTINGS, VALVES & ACCESSORIES AS REQUIRED FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
 - CONTRACTOR TO PROVIDE CRANE RIGGING/PICK PLANS AT LEAST FOUR(4) WEEKS PRIOR TO SCHEDULED DATE. SUBMIT PLANS TO VA COR TO DISTRIBUTE TO APPROPRIATE SAFETY OFFICERS FOR DISRUPTION PLANNING. ALL DATES ARE TENTATIVE UNTIL APPROVED.
 - WHERE APPLICABLE ON INTERIOR WORK. PROVIDE CLEANOUTS AT BASE OF EVERY STORM DRAIN LEADER PRIOR TO PENETRATING SLAB ON GRADE. REFER TO SPECIFICATIONS THAT ALL PIPING, ABOVE AND BELOW GRADE, MUST BE FABRICATED OF CAST IRON.
 - CONTRACTOR SHALL MAINTAIN ACCURATE RECORD DRAWINGS SHOWING ALL DISCREPANCIES WITH ANY EXISTING PIPING INDICATED OR REVISIONS TO THE NEW PLUMBING OR FIRE PROTECTION LAYOUTS. ALL CHANGES WILL BE UPDATED WITHIN FINAL RECORD DRAWINGS.

KEY NOTES: PLUMBING DEMOLITION

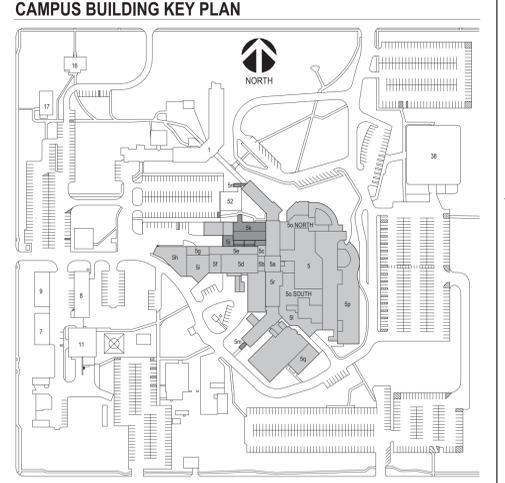
NO PLUMBING DEMOLITION ANTICIPATED FOR THIS DRAWING.

KEY NOTES: MECHANICAL DEMOLITION

- (M) TEMPORARILY REMOVE EXISTING POWERED ROOF VENTILATOR (PRV) FAN AND CURB COUNTERFLASHING TO ALLOW ROOFING CONTRACTOR TO APPLY NEW MEMBRANE FLASHING AROUND EXISTING CURB. COORDINATE DISCONNECT/RECONNECT OF POWER AND/OR CONTROL WIRING WITH ASSOCIATED SUBCONTRACTORS.
- (M) TEMPORARILY REMOVE EXISTING CONDENSING UNIT FAN AND RAIL COUNTERFLASHING TO ALLOW ROOFING CONTRACTOR TO APPLY NEW MEMBRANE FLASHING AROUND EXISTING EQUIPMENT RAILS. COORDINATE DISCONNECT/RECONNECT OF POWER AND/OR CONTROL WIRING WITH ASSOCIATED SUBCONTRACTORS.

KEY NOTES: ELECTRICAL DEMOLITION

- (E) CONTRACTOR TO DOCUMENT EXISTING LAYOUT FOR REINSTALLATION. DISCONNECT LIGHTNING PROTECTION SYSTEM. PROTECT AIR TERMINALS, CONDUCTORS, AND FITTINGS FOR REINSTALLATION.
- (E) DISCONNECT ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT. COORDINATE WITH VA COR AND MECHANICAL CONTRACTOR IF TEMPORARY POWER IS REQUIRED.
- (E) TEMPORARILY SUPPORT ELECTRICAL CONDUIT AS ROOFING AND PARAPET CAP ARE REPLACED.



Revision#	Description	Date:

CONSULTANTS

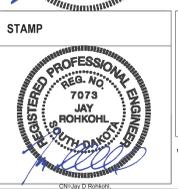
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Office of Construction and Facilities Management
 VA U.S. Department of Veterans Affairs

Drawing Title
M/E/P ROOF PLAN - DEMOLITION - J, K, M, N

Approved:

Phase
CONSTRUCTION DOCUMENTS

FOR OFFICIAL USE ONLY

Project Title
SIoux FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS

Project Number
VA #VA #438-22-600 SGA #221926

Building Number
05

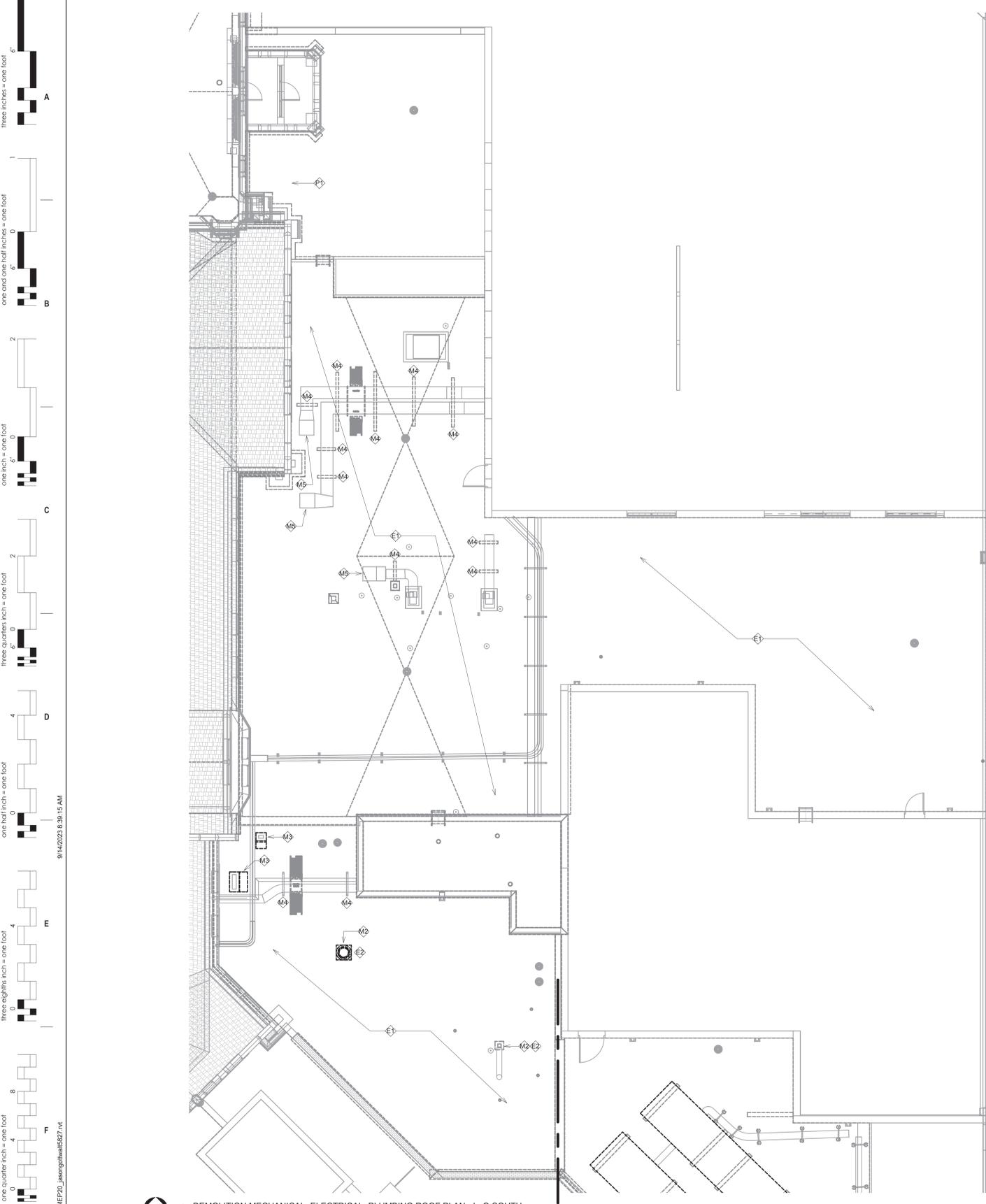
Drawing Number
05.MEPD123

Location
SIoux FALLS, SOUTH DAKOTA

Issue Date
09-15-2023

Checked
JRG

Drawn
JG, TM, BZ



- GENERAL NOTES:**
- A. MECHANICAL CONTRACTOR SHALL REFER TO SPECIFICATION MANUAL EDITED FOR THIS PROJECT ALONG WITH ANY APPLICABLE STANDARDS. ALL REQUIREMENTS OF THOSE MANUALS SHALL BE MAINTAINED IN ADDITION TO ALL NOTES AND DESCRIPTIONS INDICATED WITHIN THESE DRAWINGS. ANY CONFLICTS BETWEEN THOSE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION.
 - B. WHERE APPLICABLE (FOR ANY INTERIOR STORM DRAIN PIPING SHOWN INSTALLED WITHIN BUILDINGS 5 AND 38). COORDINATE ALL NEW PIPE ROUTING WITH ALL OTHER EXISTING UTILITIES TO ENSURE ADEQUATE CLEARANCES FOR ELECTRICAL CONDUIT, HVAC DUCTWORK & PIPING, STRUCTURAL SUPPORTS, ETC. PROVIDE ALL OFFSETS & TRANSITIONS AS REQUIRED FOR A CLEAN INSTALLATION.
 - C. NOTE THAT ALL INTERIOR STORM DRAIN, AND OVERFLOW STORM DRAIN, PIPING MUST BE FULLY INSULATED ON BOTH HORIZONTAL AND VERTICAL PIPE SECTIONS. REFER TO SPECIFICATION FOR LABELING OF PIPING AND IDENTIFICATION OF CLEANOUT ACCESS POINTS.
 - D. THE EXACT LOCATION OF EXISTING ROOFTOP EQUIPMENT ROUGH-INS SHALL BE VERIFIED PRIOR TO REMOVAL AND REPLACEMENT. CONTRACTOR TO VERIFY SOURCE OF ALL SERVICES FOR ISOLATION.
 - E. SUPPORT ALL PIPING DIRECTLY TO STRUCTURE. DO NOT SUPPORT ANY PIPING FROM DUCTWORK, CONDUIT OR OTHER PIPING ENCOUNTERED.
 - F. WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED OR DISTURBED DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.
 - G. COORDINATE ALL NEW ROOF DRAIN INSTALLATIONS. CONFIRM REQUIRED SIZE OF PENETRATION THROUGH STRUCTURAL ROOF TO BE DRILLED OR CUT BY THE CONTRACTOR. INFILL AROUND DRAIN BODY AND INCORPORATE INTO ROOFING MEMBRANE OR SYSTEM AS REQUIRED FOR WATER TIGHT SEAL.
 - H. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL PIPING, FITTINGS, VALVES & ACCESSORIES AS REQUIRED FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
 - I. CONTRACTOR TO PROVIDE CRANE RIGGING/PICK PLANS AT LEAST FOUR(4) WEEKS PRIOR TO SCHEDULED DATE. SUBMIT PLANS TO VA COR TO DISTRIBUTE TO APPROPRIATE SAFETY OFFICERS FOR DISRUPTION PLANNING. ALL DATES ARE TENTATIVE UNTIL APPROVED.
 - J. WHERE APPLICABLE ON INTERIOR WORK. PROVIDE CLEANOUTS AT BASE OF EVERY STORM DRAIN LEADER PRIOR TO PENETRATING SLAB ON GRADE. REFER TO SPECIFICATIONS THAT ALL PIPING, ABOVE AND BELOW GRADE, MUST BE FABRICATED OF CAST IRON.
 - K. CONTRACTOR SHALL MAINTAIN ACCURATE RECORD DRAWINGS SHOWING ALL DISCREPANCIES WITH ANY EXISTING PIPING INDICATED OR REVISIONS TO THE NEW PLUMBING OR FIRE PROTECTION LAYOUTS. ALL CHANGES WILL BE UPDATED WITHIN FINAL RECORD DRAWINGS.

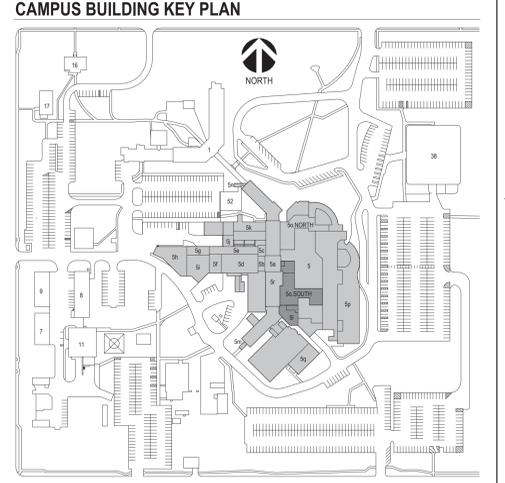
- KEY NOTES: PLUMBING DEMOLITION**
- M1 REMOVE EXISTING ROOF DRAIN, AND ASSOCIATED PIPING ON FLOOR BELOW TO NEAREST RISER OR BRANCH TAKE-OFF AND CAP. COORDINATE ACCESS TO INTERIOR SPACE ON FLOOR BELOW DURING OVERTIME HOURS FOR PIPING DEMOLITION AND ROOF PATCHING REQUIREMENTS.

- KEY NOTES: MECHANICAL DEMOLITION**
- M2 MECHANICAL CONTRACTOR TO REVIEW SITE CONDITIONS FOR EXISTING CHILLER UNIT TO BE TEMPORARILY REMOVED AND REINSTALLED FOR ROOFING INSTALLATION. REVIEW EQUIPMENT NEED TO PICK-UP AND TEMPORARILY RELOCATE, ALONG WITH ACCEPTABLE SCHEDULE THROUGH COORDINATION WITH VA FACILITIES FOR REQUIRED OUTAGE (NO TEMP UNIT WILL BE READ).
 - M3 TEMPORARILY REMOVE EXISTING POWERED ROOF VENTILATOR (PRV) FAN AND CURB COUNTERFLASHING TO ALLOW ROOFING CONTRACTOR TO APPLY NEW MEMBRANE FLASHING AROUND EXISTING CURB. COORDINATE DISCONNECT/RECONNECT OF POWER AND/OR CONTROL WIRING WITH ASSOCIATED SUBCONTRACTORS.
 - M4 TEMPORARILY REMOVE EXISTING INTAKE HOOD AND CURB COUNTERFLASHING TO ALLOW ROOFING CONTRACTOR TO APPLY NEW MEMBRANE FLASHING AROUND EXISTING CURB. NOTIFY VA OF VENTILATION OUTAGE CAUSED BY MOMENTARILY BLOCKING INTAKE.
 - M5 CONTRACTOR TO TEMPORARILY SUPPORT ALL ROOFTOP DUCTWORK TO ALLOW ROOFING CONTRACTOR TO INSTALL NEW MEMBRANE AND COUNTERFLASHING ONTO EXISTING ROOF RAIL SUPPORTS.
 - M6 CONTRACTOR TO REMOVE AND/OR MODIFY EXISTING INSULATION AND VENTURECLAD DOUBLE WALL METAL JACKETING ON DUCT PENETRATIONS THROUGH ROOF TO ALLOW ROOFING CONTRACTOR TO REINSTALL MEMBRANE AND COUNTERFLASHING UNDERNEATH INSULATION.

- KEY NOTES: ELECTRICAL DEMOLITION**
- E1 CONTRACTOR TO DOCUMENT EXISTING LAYOUT FOR REINSTALLATION. DISCONNECT LIGHTNING PROTECTION SYSTEM. PROTECT AIR TERMINALS, CONDUCTORS, AND FITTINGS FOR REINSTALLATION.
 - E2 DISCONNECT ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT. COORDINATE WITH VA COR AND MECHANICAL CONTRACTOR IF TEMPORARY POWER IS REQUIRED.

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1 DEMOLITION MECHANICAL, ELECTRICAL, PLUMBING ROOF PLAN - L, O.SOUTH
1/8" = 1'-0"

Revision#	Description	Date:

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

Drawing Title
M/E/P ROOF PLAN - DEMOLITION - L, O.SOUTH

Approved:

Phase
CONSTRUCTION DOCUMENTS

FOR OFFICIAL USE ONLY

Project Title
SIoux FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS

Project Number
VA #VA #438-22-600 SGA #221926

Building Number
05

Drawing Number
05.MEPD124

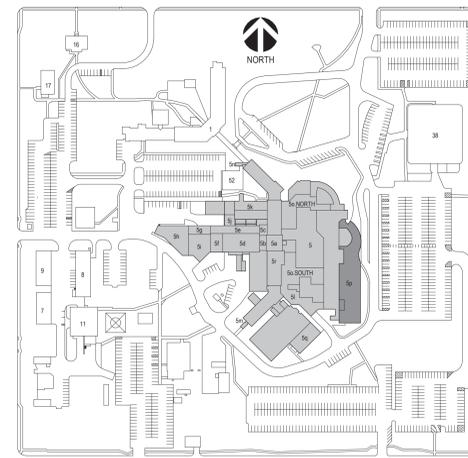
Location
SIoux FALLS, SOUTH DAKOTA

Issue Date
09-15-2023

Checked
JRG

Drawn
JG,TM,BZ

CAMPUS BUILDING KEY PLAN



GENERAL NOTES:

- A. MECHANICAL CONTRACTOR SHALL REFER TO SPECIFICATION MANUAL EDITED FOR THIS PROJECT ALONG WITH ANY APPLICABLE STANDARDS. ALL REQUIREMENTS OF THOSE MANUALS SHALL BE MAINTAINED IN ADDITION TO ALL NOTES AND DESCRIPTIONS INDICATED WITHIN THESE DRAWINGS. ANY CONFLICTS BETWEEN THOSE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION.
- B. WHERE APPLICABLE (FOR ANY INTERIOR STORM DRAIN PIPING SHOWN INSTALLED WITHIN BUILDINGS 5 AND 8). COORDINATE ALL NEW PIPE ROUTING WITH ALL OTHER EXISTING UTILITIES TO ENSURE ADEQUATE CLEARANCES FOR ELECTRICAL CONDUIT, HVAC DUCTWORK & PIPING, STRUCTURAL SUPPORTS, ETC. PROVIDE ALL OFFSETS & TRANSITIONS AS REQUIRED FOR A CLEAN INSTALLATION.
- C. NOTE THAT ALL INTERIOR STORM DRAIN, AND OVERFLOW STORM DRAIN, PIPING MUST BE FULLY INSULATED ON BOTH HORIZONTAL AND VERTICAL PIPE SECTIONS. REFER TO SPECIFICATION FOR LABELING OF PIPING AND IDENTIFICATION OF CLEANOUT ACCESS POINTS.
- D. THE EXACT LOCATION OF EXISTING ROOFTOP EQUIPMENT ROUGH-INS SHALL BE VERIFIED PRIOR TO REMOVAL AND REPLACEMENT. CONTRACTOR TO VERIFY SOURCE OF ALL SERVICES FOR ISOLATION.
- E. SUPPORT ALL PIPING DIRECTLY TO STRUCTURE. DO NOT SUPPORT ANY PIPING FROM DUCTWORK, CONDUIT OR OTHER PIPING ENCOUNTERED.
- F. WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED OR DISTURBED DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.
- G. COORDINATE ALL NEW ROOF DRAIN INSTALLATIONS. CONFIRM REQUIRED SIZE OF PENETRATION THROUGH STRUCTURAL ROOF TO BE DRILLED OR CUT BY THE CONTRACTOR. INFILL AROUND DRAIN BODY AND INCORPORATE INTO ROOFING MEMBRANE OR SYSTEM AS REQUIRED FOR WATER TIGHT SEAL.
- H. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL PIPING, FITTINGS, VALVES & ACCESSORIES AS REQUIRED FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
- I. CONTRACTOR TO PROVIDE CRANE RIGGING/PICK PLANS AT LEAST FOUR(4) WEEKS PRIOR TO SCHEDULED DATE. SUBMIT PLANS TO VA COR TO DISTRIBUTE TO APPROPRIATE SAFETY OFFICERS FOR DISRUPTION PLANNING. ALL DATES ARE TENTATIVE UNTIL APPROVED.
- J. WHERE APPLICABLE ON INTERIOR WORK. PROVIDE CLEANOUTS AT BASE OF EVERY STORM DRAIN LEADER PRIOR TO PENETRATING SLAB ON GRADE. REFER TO SPECIFICATIONS THAT ALL PIPING, ABOVE AND BELOW GRADE, MUST BE FABRICATED OF CAST IRON.
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KEY NOTES: PLUMBING DEMOLITION

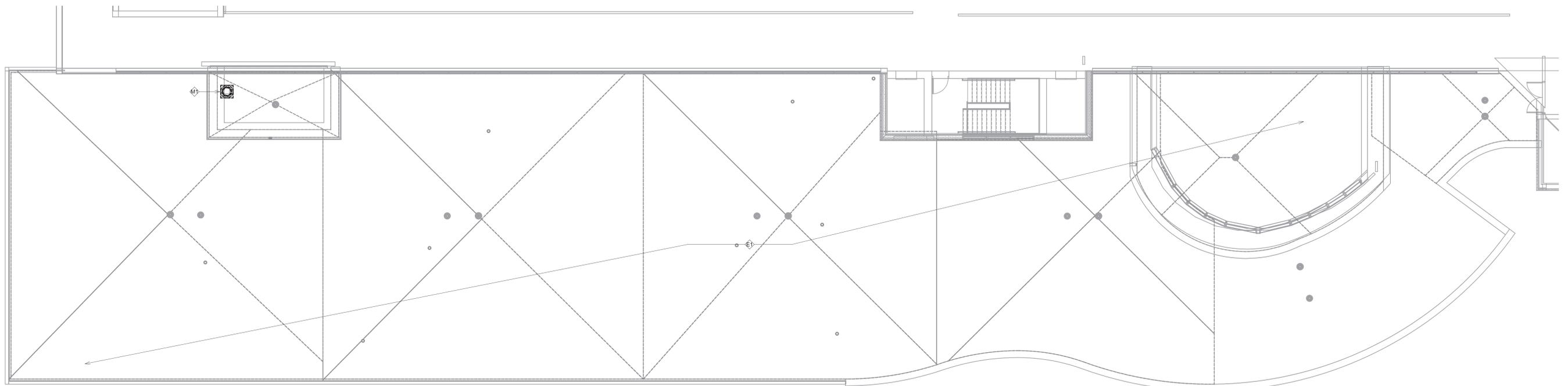
NO PLUMBING DEMOLITION ANTICIPATED FOR THIS DRAWING.

KEY NOTES: MECHANICAL DEMOLITION

TEMPORARILY REMOVE EXISTING POWERED ROOF VENTILATOR (PRV) FAN AND CURB COUNTERFLASHING TO ALLOW ROOFING CONTRACTOR TO APPLY NEW MEMBRANE FLASHING AROUND EXISTING CURB. COORDINATE DISCONNECT/RECONNECT OF POWER AND/OR CONTROL WIRING WITH ASSOCIATED SUBCONTRACTORS.

KEY NOTES: ELECTRICAL DEMOLITION

CONTRACTOR TO DOCUMENT EXISTING LAYOUT FOR REINSTALLATION. DISCONNECT LIGHTNING PROTECTION SYSTEM. PROTECT AIR TERMINALS, CONDUCTORS, AND FITTINGS FOR REINSTALLATION.



1 DEMOLITION MECHANICAL, ELECTRICAL, PLUMBING ROOF PLAN - P-UPPER
1/8" = 1'-0"

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Revision#	Description	Date:

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REG. NO. 7073
JAY ROHKOHL
SOUTH DAKOTA

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

Drawing Title
M/E/P ROOF PLAN - DEMOILITION - P-UPPER

Approved:

Phase
CONSTRUCTION DOCUMENTS

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Project Title
SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS

Location
SIOUX FALLS, SOUTH DAKOTA

Issue Date
09-15-2023

Checked
JRG

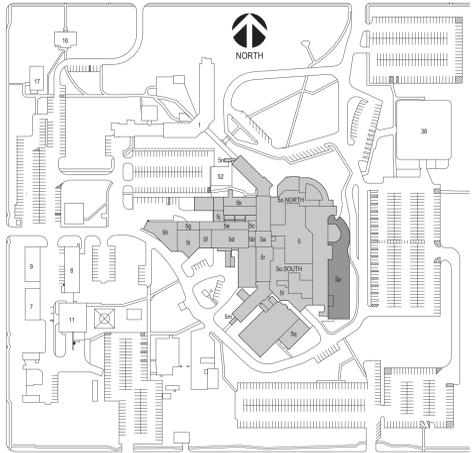
Drawn
JG,TM,BZ

Project Number
VA #VA #438-22-600
SGA #221926

Building Number
05

Drawing Number
05.MEPD126

CAMPUS BUILDING KEY PLAN



GENERAL NOTES:

- A. MECHANICAL CONTRACTOR SHALL REFER TO SPECIFICATION MANUAL EDITED FOR THIS PROJECT ALONG WITH ANY APPLICABLE STANDARDS. ALL REQUIREMENTS OF THOSE MANUALS SHALL BE MAINTAINED IN ADDITION TO ALL NOTES AND DESCRIPTIONS INDICATED WITHIN THESE DRAWINGS. ANY CONFLICTS BETWEEN THOSE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION.
- B. WHERE APPLICABLE (FOR ANY INTERIOR STORM DRAIN PIPING SHOWN INSTALLED WITHIN BUILDINGS 8 AND 9). COORDINATE ALL NEW PIPE ROUTING WITH ALL OTHER EXISTING UTILITIES TO ENSURE ADEQUATE CLEARANCES FOR ELECTRICAL CONDUIT, HVAC DUCTWORK & PIPING, STRUCTURAL SUPPORTS, ETC. PROVIDE ALL OFFSETS & TRANSITIONS AS REQUIRED FOR A CLEAN INSTALLATION.
- C. NOTE THAT ALL INTERIOR STORM DRAIN, AND OVERFLOW STORM DRAIN, PIPING MUST BE FULLY INSULATED ON BOTH HORIZONTAL AND VERTICAL PIPE SECTIONS. REFER TO SPECIFICATION FOR LABELING OF PIPING AND IDENTIFICATION OF CLEANOUT ACCESS POINTS.
- D. THE EXACT LOCATION OF EXISTING ROOFTOP EQUIPMENT ROUGH-INS SHALL BE VERIFIED PRIOR TO REMOVAL AND REPLACEMENT. CONTRACTOR TO VERIFY SOURCE OF ALL SERVICES FOR ISOLATION.
- E. SUPPORT ALL PIPING DIRECTLY TO STRUCTURE. DO NOT SUPPORT ANY PIPING FROM DUCTWORK, CONDUIT OR OTHER PIPING ENCOUNTERED.
- F. WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED OR DISTURBED DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.
- G. COORDINATE ALL NEW ROOF DRAIN INSTALLATIONS. CONFIRM REQUIRED SIZE OF PENETRATION THROUGH STRUCTURAL ROOF TO BE DRILLED OR CUT BY THE CONTRACTOR. INFILL AROUND DRAIN BODY AND INCORPORATE INTO ROOFING MEMBRANE OR SYSTEM AS REQUIRED FOR WATER TIGHT SEAL.
- H. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL PIPING, FITTINGS, VALVES & ACCESSORIES AS REQUIRED FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
- I. CONTRACTOR TO PROVIDE CRANE RIGGING/PICK PLANS AT LEAST FOUR(4) WEEKS PRIOR TO SCHEDULED DATE. SUBMIT PLANS TO VA COR TO DISTRIBUTE TO APPROPRIATE SAFETY OFFICERS FOR DISRUPTION PLANNING. ALL DATES ARE TENTATIVE UNTIL APPROVED.
- J. WHERE APPLICABLE ON INTERIOR WORK. PROVIDE CLEANOUTS AT BASE OF EVERY STORM DRAIN LEADER PRIOR TO PENETRATING SLAB ON GRADE. REFER TO SPECIFICATIONS THAT ALL PIPING, ABOVE AND BELOW GRADE, MUST BE FABRICATED OF CAST IRON.
- K. CONTRACTOR SHALL MAINTAIN ACCURATE RECORD DRAWINGS SHOWING ALL DISCREPANCIES WITH ANY EXISTING PIPING INDICATED OR REVISIONS TO THE NEW PLUMBING OR FIRE PROTECTION LAYOUTS. ALL CHANGES WILL BE UPDATED WITHIN FINAL RECORD DRAWINGS.

KEY NOTES: PLUMBING DEMOLITION

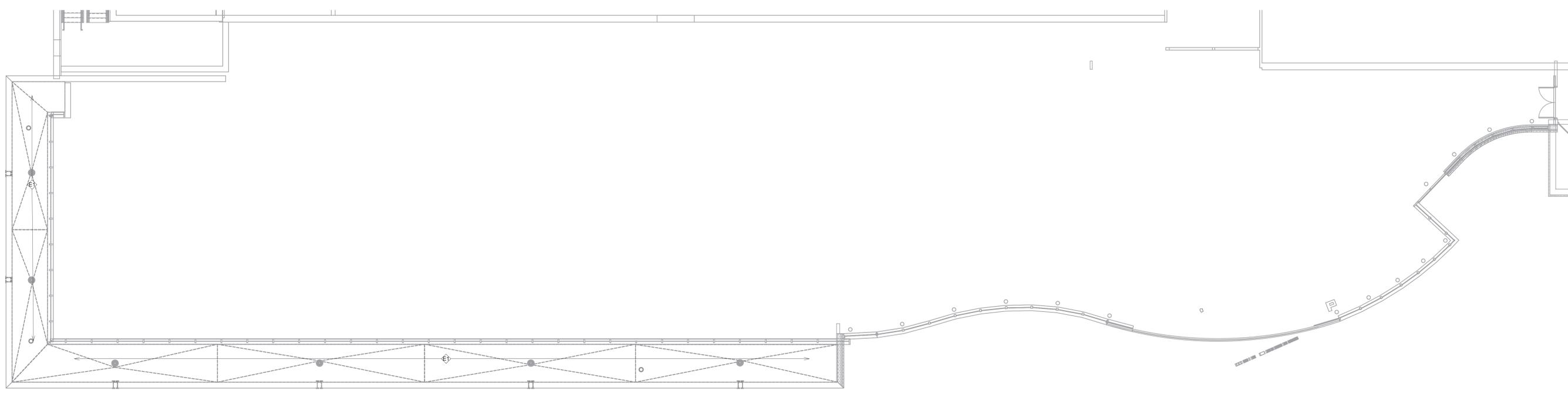
NO PLUMBING DEMOLITION ANTICIPATED FOR THIS DRAWING.

KEY NOTES: MECHANICAL DEMOLITION

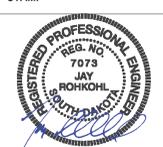
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KEY NOTES: ELECTRICAL DEMOLITION

CONTRACTOR TO DOCUMENT EXISTING LAYOUT FOR REINSTALLATION. DISCONNECT LIGHTNING PROTECTION SYSTEM. PROTECT AIR TERMINALS, CONDUCTORS, AND FITTINGS FOR REINSTALLATION.

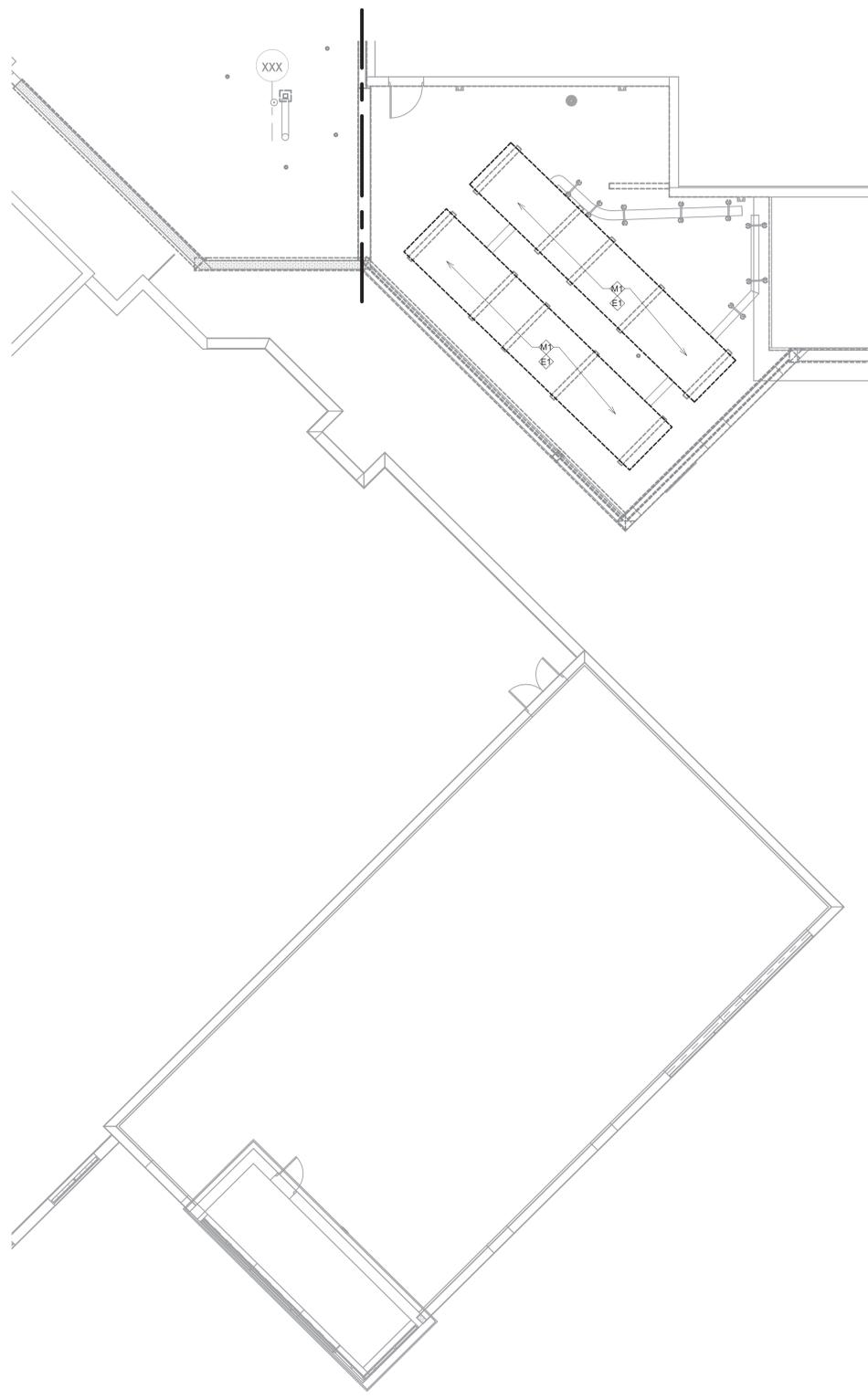


1 DEMOLITION MECHANICAL, ELECTRICAL, PLUMBING ROOF PLAN - P.LOWER
1/8" = 1'-0"



CONSULTANTS CIVIL: EHRHART GRIFFIN & ASSOCIATES 601 N Minnesota Ave Sioux Falls, SD 57104 Phone: 605-339-7215		STRUCTURAL: ERA ERICKSEN ROED & ASSOCIATES 2550 University Ave W Suite 423-S St. Paul, MN 55402 Phone: 651-251-7570		MEP: DUNHAM Dunham Associates, Inc. 50 South Sixth St Suite 1100 Minneapolis, MN 55402 Phone: 612-465-7550		ARCHITECT OF RECORD STONE GROUP ARCHITECTS Stone Group Architects, Inc. 600 East 7th Street Sioux Falls, SD 57103 Phone: 605-271-1144		STAMP Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs		Drawing Title M/E/P ROOF PLAN - DEMOLITION - P.LOWER		Phase CONSTRUCTION DOCUMENTS		Project Title SIoux FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS		Project Number VA #VA #438-22-600 SGA #221926	
Approved:		FOR OFFICIAL USE ONLY		Location SIoux FALLS, SOUTH DAKOTA		Issue Date 09-15-2023		Checked JRG		Drawn JG,TM,BZ		Building Number 05		Drawing Number 05.MEPD127			

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KEY NOTES: MECHANICAL DEMOLITION

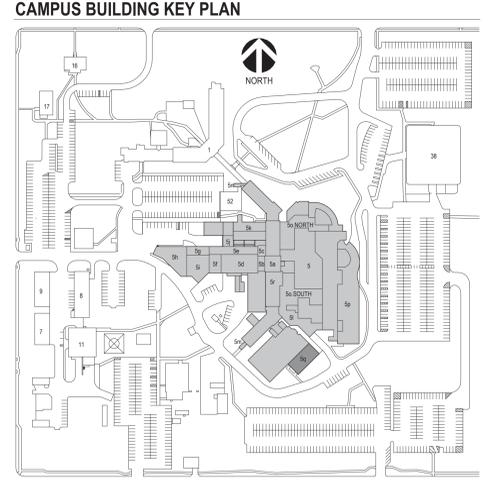
Ⓜ LARGE AIR-COOLED CHILLER UNITS WILL REQUIRE TO BE FULLY REMOVED WHILE ROOFING WORK OCCURS. PROVIDE VA COR WITH A COMPREHENSIVE CRANE PICK PLAN, AND INCLUDE LARGE FLATBED SEMI-TRAILERS LARGE ENOUGH TO OPLDLOAD EACH OF THESE TWO CHILLERS ONTO TO BE ABLE TO REMOVED FROM SITE WHILE RE-ROOFING OCCURS. NOTE THAT EXISTING ROOF RAILS FOR THESE CHILLERS WILL NEED TO BE MODIFIED TO RAISE UNITS ENOUGH FOR THICKER ROOF INSULATION AT THIS LOCATION. COORDINATE DISCONNECTION OF CHILLED WATER PIPING CONNECTION ALONG WITH ANY CONTROL WIRING.

KEY NOTES: ELECTRICAL DEMOLITION

Ⓧ DISCONNECT POWER TO CHILLER UNIT. COORDINATE LOCK-OUT OF POWER AT ASSOCIATED PANEL UNTIL TIME OF RECONNECTION.

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1 DEMOLITION MECHANICAL, ELECTRICAL, PLUMBING ROOF PLAN - AREA Q, S
 1/8" = 1'-0"



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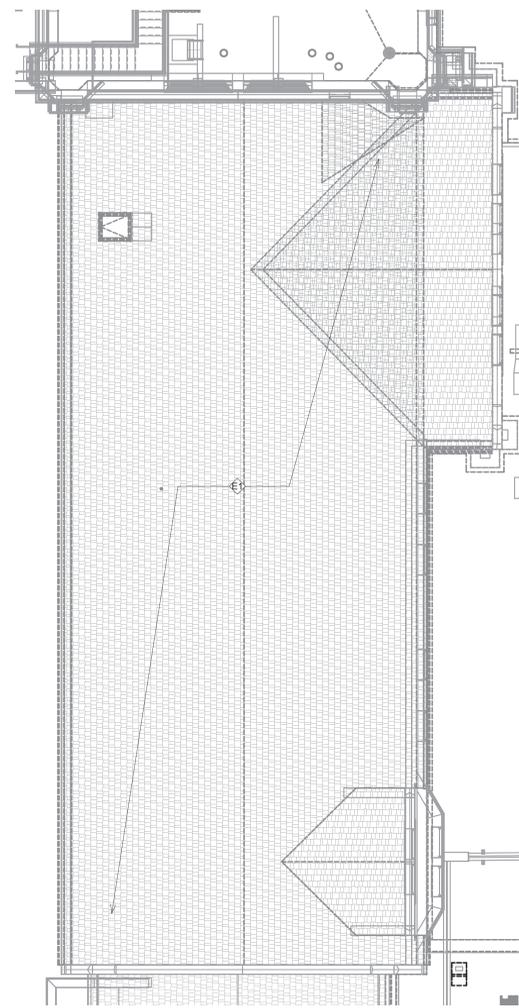
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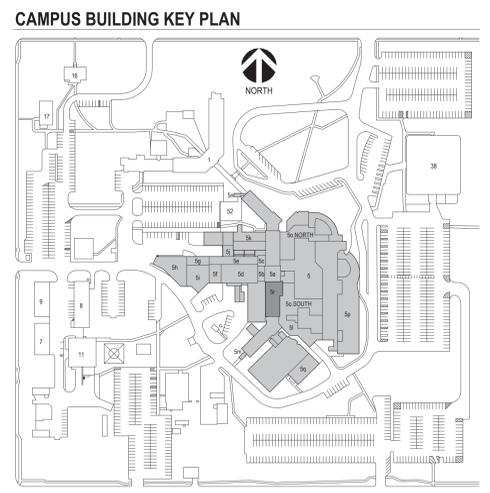
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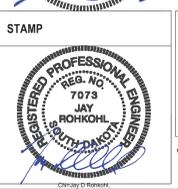
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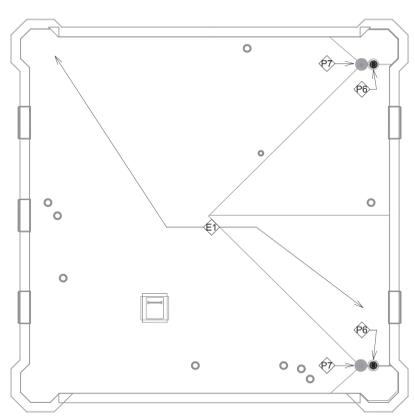
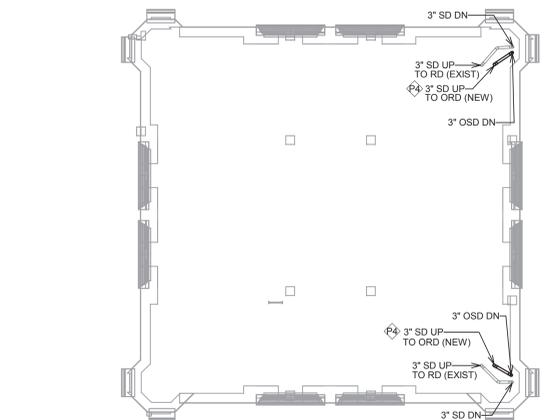
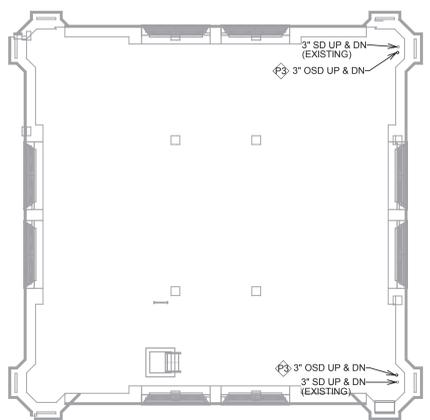
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3 MEP PLAN - A, B, C, D, E, F - TOWER 7TH FLOOR
 1/8" = 1'-0"

4 MEP PLAN - A, B, C, D, E, F - TOWER 8TH FLOOR
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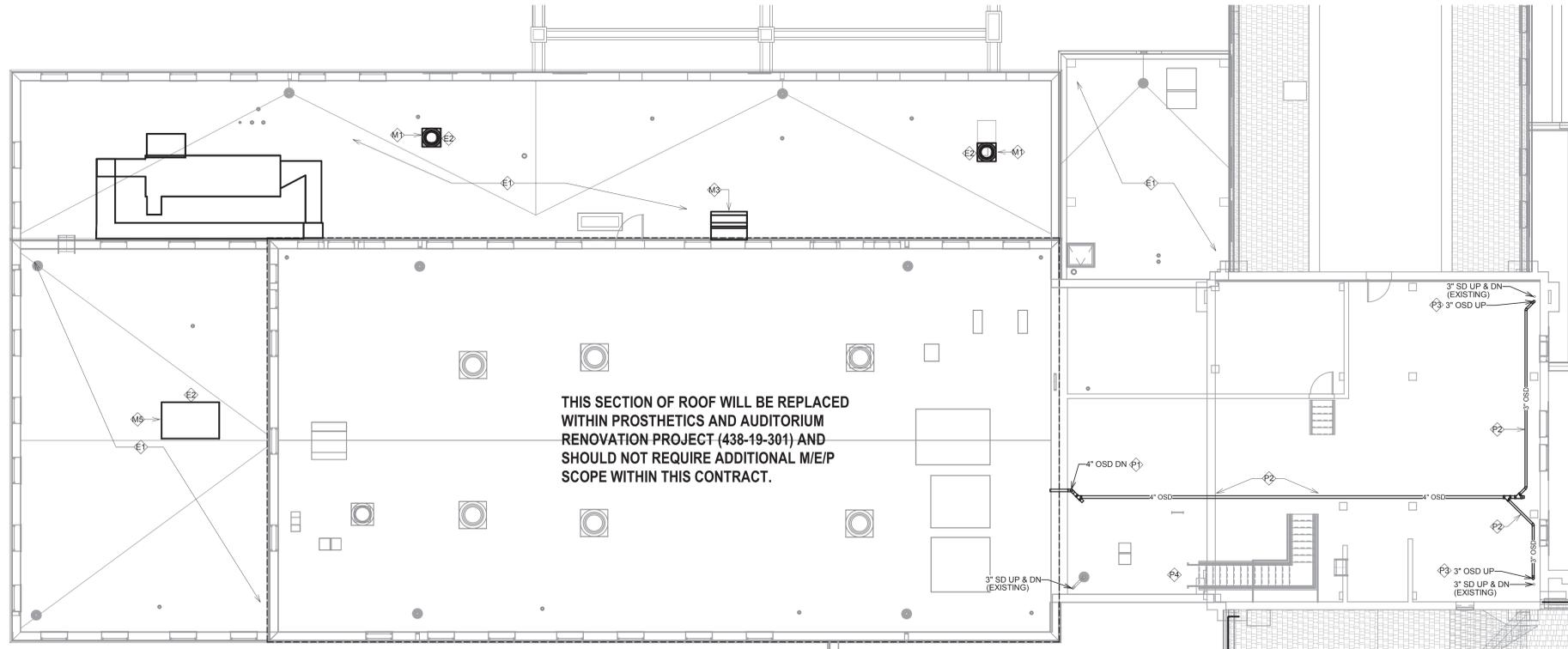
6 MEP PLAN - A, B, C, D, E, F - TOWER ROOF
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- KEY NOTES: PLUMBING NEW WORK**
- ROUTE 4" OVERFLOW DRAIN PIPE MAIN DOWN EXPOSED ON EXTERIOR WALL OF BUILDING. CORE DRILL AND EXTEND STORM DRAIN PIPE OUT THROUGH WALL AND TERMINATE WITH DOWNSPOUT NOZZLE. ZURN Z199-S5, WITH STAINLESS STEEL GRID SCREEN. DISCHARGE ONTO ADJACENT ROOF AREA (APPROX 10' ABOVE ROOF LEVEL).
 - ROUTE NEW 4" OVERFLOW STORM DRAIN PIPING THROUGH MECHANICAL ROOM. SUPPORT AS REQUIRED AND INCLUDE ALL OFFSET TRANSITIONS NEEDED FOR EXISTING OBSTRUCTIONS IN THIS AREA. CONTRACTOR TO REVIEW SITE PRIOR TO BID.
 - CORE DRILL FLOOR ABOVE FOR PIPING TO EXTEND UP TO NEXT LEVEL. PROVIDE PENETRATION WITH SLEEVE AND ARMY FLOOR TO AVOID ANY REBAR OR IMBEDDED CONDUIT.
 - CORE DRILL ROOF ABOVE LARGE ENOUGH FOR NEW DRAIN INSTALLATION. AT TOP OF RISER PROVIDE A CLEANOUT FOR INSTALLATION OF OPTIONAL HEAT TRACING WITHIN PIPE IF NEEDED (NOTE TO ALSO ALTER EXISTING STORM DRAIN WITH SIMILAR CLEANOUT ON TOP OF RISER).
 - NOT USED.
 - PROVIDE NEW ROOF DRAIN, JOSAM MODEL 21500-AE-03-23, OR EQUAL WITH DECK CLAMP AND RECEIVER (R-03) AND ROUGH BRONZE DOME (R-23). COORDINATE CORE DRILLING OF CONCRETE ROOF STRUCTURE AS REQUIRED. NOTE THAT OVERFLOW DRAINS SHALL ALSO BE PROVIDED WITH 2" EXTENSION COLLARS (E-17).
 - EXISTING DRAINS SHALL HAVE EXISTING DOMES REPLACED WITH BRONZE DOMES (R-23) TO MATCH NEW ROOF DRAINS. VERIFY FIT WITH CURRENT MANUFACTURER MODEL.

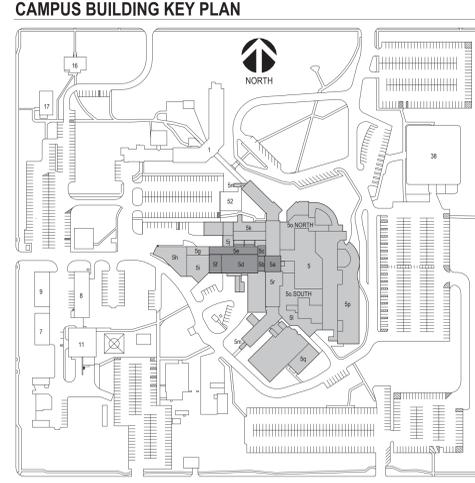
- KEY NOTES: MECHANICAL NEW WORK**
- REINSTALL PRV FAN WITH CURB COUNTERFLASHING AND SEAL AIRTIGHT TO CURB. RECONNECT POWER AND CONTROL WIRING AND PERFORM START-UP TESTING FOR PROPER PERFORMANCE.
 - NOT USED.
 - REINSTALL INTAKE HOOD WITH CURB COUNTERFLASHING AND SEAL AIRTIGHT. REFER TO DEMOLITION DRAWING FOR COORDINATION OF ANY ASSOCIATED HVAC OUTGAGES RESULTING FROM THIS REMOVAL/REPLACEMENT.
 - NOT USED.
 - REINSTALL PREVIOUSLY REMOVED CHILLER ONTO NEW ROOF RAILS (SEE DEMOLITION NOTES). CONTRACTOR TO REVIEW ALL PIPING AND WIRING CONNECTIONS AND PERFORM FULL START-UP SERVICE ON COMPLETION TO VERIFY PROPER OPERATION. INCLUDE TESTING OF WATER TREATMENT AND ASSESSMENT OF EXISTING CONDITION AND COMPONENTS REQUIRING SERVICE. REPORT FINDING TO VA FACILITIES TO ADDRESS SEPARATELY FROM THIS PROJECT.

- KEY NOTES: ELECTRICAL NEW WORK**
- RECONNECT LIGHTNING PROTECTION SYSTEM TO MATCH EXISTING CONDITIONS. VERIFY AIR TERMINAL CONNECTIONS AND ROOF PENETRATIONS SEALED AND FLASHED BY ROOFING CONTRACTOR.
 - RECONNECT ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT. MODIFY EXISTING FEEDER AS REQUIRED.



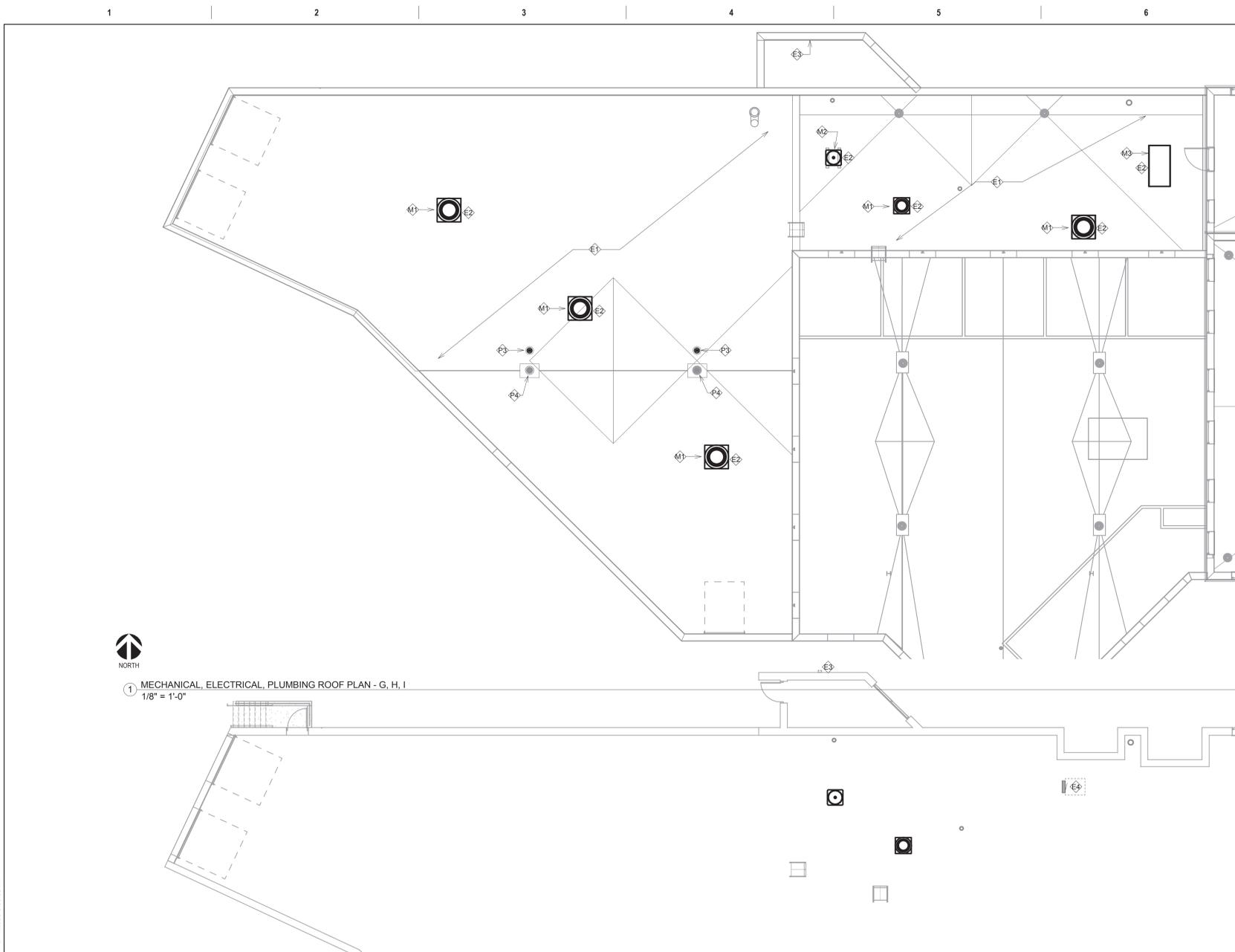
THIS SECTION OF ROOF WILL BE REPLACED WITHIN PROSTHETICS AND AUDITORIUM RENOVATION PROJECT (438-19-301) AND SHOULD NOT REQUIRE ADDITIONAL M/E/P SCOPE WITHIN THIS CONTRACT.

1 MECHANICAL, ELECTRICAL, PLUMBING ROOF PLAN - A, B, C, D, E, F
 1/8" = 1'-0"

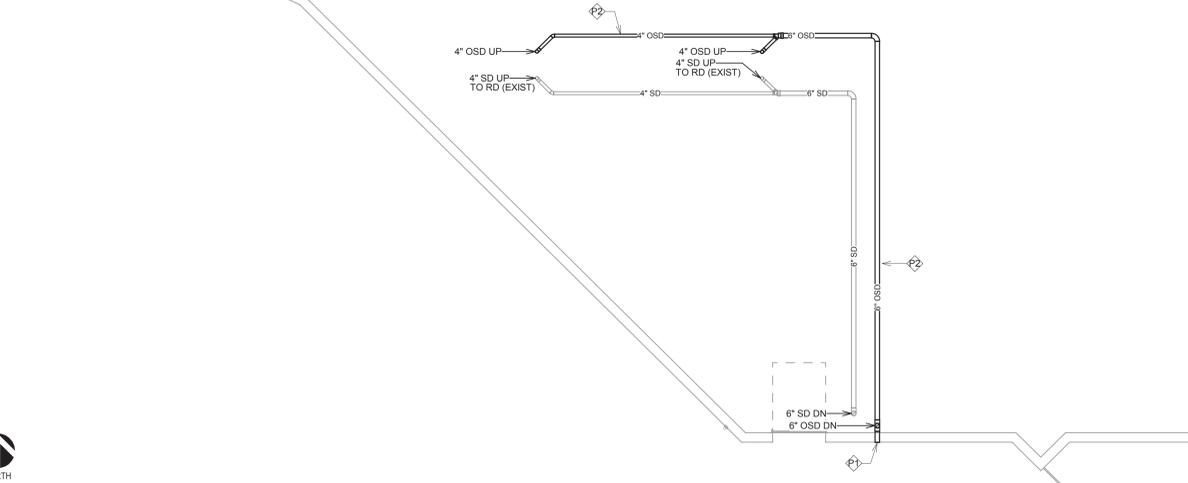


CONSULTANTS CIVIL: EHRHART GRIFFIN & ASSOCIATES STRUCTURAL: ERA ERICKSEN ROED & ASSOCIATES MEP: DUNHAM ARCHITECT OF RECORD: STONE GROUP ARCHITECTS		Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title: M/E/P ROOF PLAN - A, B, C, D, E, F Phase: CONSTRUCTION DOCUMENTS Project Title: SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS Location: SIOUX FALLS, SOUTH DAKOTA Issue Date: 09-15-2023 Checked: JRG Drawn: JG, TM, BZ	Project Number: VA #A #438-22-600 SGA #221926 Building Number: 05 Drawing Number: 05.MEP121
Revision# Description Date:		FOR OFFICIAL USE ONLY		

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



1 MECHANICAL, ELECTRICAL, PLUMBING ROOF PLAN - G, H, I
 1/8" = 1'-0"



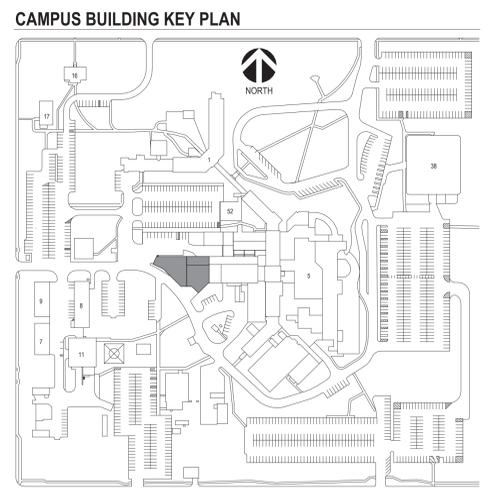
3 MECHANICAL, ELECTRICAL, PLUMBING GROUND FLOOR PLAN - G, H, I
 1/8" = 1'-0"

- GENERAL NOTES:**
- MECHANICAL CONTRACTOR SHALL REFER TO SPECIFICATION MANUAL EDITED FOR THIS PROJECT ALONG WITH ANY APPLICABLE STANDARDS. ALL REQUIREMENTS OF THOSE MANUALS SHALL BE MAINTAINED IN ADDITION TO ALL NOTES AND DESCRIPTIONS INDICATED WITHIN THESE DRAWINGS. ANY CONFLICTS BETWEEN THOSE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION.
 - WHERE APPLICABLE (FOR ANY INTERIOR STORM DRAIN PIPING SHOWN INSTALLED WITHIN BUILDINGS S AND S8). COORDINATE ALL NEW PIPE ROUTING WITH ALL OTHER EXISTING UTILITIES TO ENSURE ADEQUATE CLEARANCES FOR ELECTRICAL CONDUIT, HVAC DUCTWORK & PIPING, STRUCTURAL SUPPORTS, ETC. PROVIDE ALL OFFSETS & TRANSITIONS AS REQUIRED FOR A CLEAN INSTALLATION.
 - NOTE THAT ALL INTERIOR STORM DRAIN, AND OVERFLOW STORM DRAIN, PIPING MUST BE FULLY INSULATED ON BOTH HORIZONTAL AND VERTICAL PIPE SECTIONS. REFER TO SPECIFICATION FOR LABELING OF PIPING AND IDENTIFICATION OF CLEANOUT ACCESS POINTS.
 - THE EXACT LOCATION OF EXISTING ROOFTOP EQUIPMENT ROUGH-INS SHALL BE VERIFIED PRIOR TO REMOVAL AND REPLACEMENT. CONTRACTOR TO VERIFY SOURCE OF ALL SERVICES FOR ISOLATION.
 - SUPPORT ALL PIPING DIRECTLY TO STRUCTURE. DO NOT SUPPORT ANY PIPING FROM DUCTWORK, CONDUIT OR OTHER PIPING ENCOUNTERED.
 - WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED OR DISTURBED DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.
 - COORDINATE ALL NEW ROOF DRAIN INSTALLATIONS. CONFIRM REQUIRED SIZE OF PENETRATION THROUGH STRUCTURAL ROOF TO BE DRILLED OR CUT BY THE CONTRACTOR. INFILL AROUND DRAIN BODY AND INCORPORATE INTO ROOFING MEMBRANE OR SYSTEM AS REQUIRED FOR WATER TIGHT SEAL.
 - THE PLUMBING CONTRACTOR SHALL PROVIDE ALL PIPING, FITTINGS, VALVES & ACCESSORIES AS REQUIRED FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
 - CONTRACTOR TO PROVIDE CRANE RIGGING/PICK PLANS AT LEAST FOUR(4) WEEKS PRIOR TO SCHEDULED DATE. SUBMIT PLANS TO VA COR TO DISTRIBUTE TO APPROPRIATE SAFETY OFFICERS FOR DISRUPTION PLANNING. ALL DATES ARE TENTATIVE UNTIL APPROVED.
 - WHERE APPLICABLE ON INTERIOR WORK. PROVIDE CLEANOUTS AT BASE OF EVERY STORM DRAIN LEADER PRIOR TO PENETRATING SLAB ON GRADE. REFER TO SPECIFICATIONS THAT ALL PIPING, ABOVE AND BELOW GRADE, MUST BE FABRICATED OF CAST IRON.
 - CONTRACTOR SHALL MAINTAIN ACCURATE RECORD DRAWINGS SHOWING ALL DISCREPANCIES WITH ANY EXISTING PIPING INDICATED OR REVISIONS TO THE NEW PLUMBING OR FIRE PROTECTION LAYOUTS. ALL CHANGES WILL BE UPDATED WITHIN FINAL RECORD DRAWINGS.

- KEY NOTES: PLUMBING NEW WORK**
- ROUTE 8" OVERFLOW STORM DRAIN PIPE MAIN DOWN EXTERIOR WALL OF BUILDING, ADJACENT TO EXISTING STORM DRAIN RISER. EXTEND STORM DRAIN OUT THROUGH WALL AND TERMINATE WITH DOWNSPOUT NOZZLE. ZURN Z198-SS, WITH STAINLESS STEEL BIRD SCREEN. DISCHARGE ONTO CONCRETE SPLASH BLOCK. INSTALL DOWNSPOUT NOZZLE APPROXIMATELY 18" ABOVE GRADE. SECURE PIPING TO EXTERIOR WALL (EXPOSED) AND INSULATE ENTIRE LENGTH AS REQUIRED TO EACH OF THE TWO(2) ROOF DRAIN CONNECTIONS SHOWN.
 - OFFSET STORM DRAIN PIPING AS REQUIRED TO GET BETWEEN EXISTING OBSTRUCTIONS IN THIS AREA. NOTE THAT THIS SPACE IS A WAREHOUSE WITHOUT CEILINGS AND WILL HAVE READILY AVAILABLE ACCESS FOR INSTALLATION OF SUPPORT HANGERS AND PIPING.
 - PROVIDE NEW ROOF DRAIN, JOSAM MODEL Z1500-AS-03-23, OR EQUAL WITH DECK CLAMP AND RECEIVER (03) AND ROUGH BRONZE DOME (23). COORDINATE CORE DRILLING OF CONCRETE ROOF STRUCTURE AS REQUIRED. NOTE THAT OVERFLOW DRAINS SHALL ALSO BE PROVIDED WITH 2" EXTENSION COLLARS (-17).
 - EXISTING DRAINS SHALL HAVE EXISTING DOMES REPLACED WITH BRONZE DOMES (-23) TO MATCH NEW ROOF DRAINS. VERIFY FIT WITH CURRENT MANUFACTURER MODEL. ALSO PROVIDE 2" EXTENSION COLLARS (-17) FOR DRAINS TO BE CONVERTED TO OVERFLOW. REFER TO NOTES ON FIRST FLOOR PLUMBING DRAWINGS.

- KEY NOTES: MECHANICAL NEW WORK**
- REINSTALL PRV FAN WITH CURB COUNTERFLASHING AND SEAL AIRTIGHT TO CURB. RECONNECT POWER AND CONTROL WIRING AND PERFORM START-UP TESTING FOR PROPER PERFORMANCE.
 - REINSTALL PREVIOUSLY REMOVED SMALL CONDENSING UNIT WITH CURB COUNTERFLASHING ALONG WITH ANY ASSOCIATED RECLAIMED REFRIGERANT. PERFORM START-UP SERVICE TESTING FOR FUNCTIONALITY AND SUBMIT REPORT TO ENGINEER.
 - REINSTALL INTAKE HOOD WITH CURB COUNTERFLASHING AND SEAL AIRTIGHT. REFER TO DEMOLITION DRAWING FOR COORDINATION OF ANY ASSOCIATED HVAC OUTAGES RESULTING FROM THIS REMOVAL/REPLACEMENT.

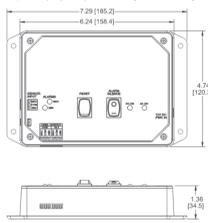
- KEY NOTES: ELECTRICAL NEW WORK**
- RECONNECT LIGHTNING PROTECTION SYSTEM TO MATCH EXISTING CONDITIONS. VERIFY AIR TERMINAL CONNECTIONS AND ROOF PENETRATIONS SEALED AND FLASHED BY ROOFING CONTRACTOR.
 - RECONNECT ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT. MODIFY EXISTING FEEDER AS REQUIRED.
 - PROVIDE SELF-REGULATING HEATING CABLE WITH BRAID AND TEFLON STABILIZED POLYOLEFIN JACKET, CHROMALOX MODEL SRF-1R1T OR EQUAL, WITHIN ALL HORIZONTAL GUTTERS AND VERTICAL DOWNSPOUTS. START CABLING FROM POINT INDICATED THROUGH HORIZONTAL GUTTER, AND INCLUDE DOWNSPOUT HANGERS TO SUPPORT CABLE DROPS TO TERMINATE JUST ABOVE GRADE. CONTRACTOR TO VERIFY LENGTHS OF CABLE REQUIRED AND PROVIDE ALL POWER CONNECTION KITS FOR FINAL CONNECTION BY ELECTRICAL CONTRACTOR. PROVIDE GFCI BREAKER AS REQUIRED BY NEC AND SIZED PER MANUFACTURER MAXIMUM CIRCUIT LENGTHS REQUIREMENTS. PROVIDE DEDICATED CIRCUIT FROM NEAREST SOURCE.
 - APPROXIMATE LOCATION OF EXISTING ELECTRICAL PANEL. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL CEILING REMOVAL AND REPLACEMENT TO ROUTE CONDUIT WITHIN BUILDING TO EACH LOCATION INDICATED BY KEY NOTE #E3 ABOVE AND SEAL ROOF OR WALL PENETRATION AS REQUIRED. COORDINATE ACCESS TO BUILDING AREAS REQUIRED TO PERFORM WORK A MINIMUM OF 2-WEEKS IN ADVANCE AND COMPLY WITH ALL VA INFECTION CONTROL REQUIREMENTS.



CONSULTANTS CIVIL: EHRHART GRIFFIN & ASSOCIATES Ehrhart Griffin & Associates 601 N Minnesota Ave Sioux Falls, SD 57104 Phone: 605-339-7215 STRUCTURAL: ERA ERICKSEN ROED & ASSOCIATES Ericksen Roed Associates 2550 University Ave W Suite 423-S St. Paul, MN 55402 Phone: 651-251-7570 MEP: DUNHAM Dunham Associates, Inc. 50 South Sixth St Suite 1100 Minneapolis, MN 55402 Phone: 612-465-7550		ARCHITECT OF RECORD STONE GROUP ARCHITECTS Stone Group Architects, Inc. 600 East 7th Street Sioux Falls, SD 57103 Phone: 605-271-1144		STAMP Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs		Drawing Title M/E/P ROOF PLAN - G, H, I Approved:		Phase CONSTRUCTION DOCUMENTS FOR OFFICIAL USE ONLY		Project Title SIoux FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS Location SIoux FALLS, SOUTH DAKOTA		Project Number VA #VA #438-22-600 SGA #221926 Building Number 05 Drawing Number 05.MEP122	
Revision#	Description	Date:											

ZURN F7000 SERIES FLOW SENSOR INSTALLATION

Dimensional Data (Inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



The Zurn Flow Sensor is designed to notify the building maintenance staff whenever there is flow in the overflow drainage system, typically an indication of either a primary drainage system blockage or the inability of the primary system to adequately handle the water load on the roof. The multiple flow level remains present until manually cleaned, ensuring that the drainage system is only monitored around the clock, but that no one needs to be present to witness the event. The information provided by Zurn Flow Sensor System alerts the owner to the maintenance needs of the drainage system, possibly avoiding a catastrophic structural failure. The flow sensor pick-up is supplied in a 6 inch long section of PVC or Cast Iron pipe to be installed by either roof walk, or gluing the PVC section into a horizontal cut of the overflow drainage line. The sensor pickup should not be installed closer than 4 pipe diameters to an upstream elbow. The signal is sent out to the pickup and back to the control unit via a voltage 12V galv. 18 Ga. and in hazardous areas due to interference wire should be shielded, wiring not included. Outputs are current or voltage outputs that will provide for connection to building management systems or to control water actuators. Power is supplied to the unit from a 120 volt to 12 volt plug in transformer included with the sensor.

The Zurn Flow Sensor can also be utilized in rainwater harvesting systems to sense the water in the system and control a valve to flush the debris in rain that misses the rain and then fill the storage tank.

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov
ADVERTENCIA: Cáncer y daño reproductivo - www.P65Warnings.ca.gov
CAUTION: Hazardous materials are in production - www.P65Warnings.ca.gov
AVVERTIMENTO: Cancer e effetti reproduttivi in produzione - www.P65Warnings.ca.gov

Zurn Industries, LLC - Specification Drainage Operations
 1801 Plymouth Avenue, East, Ft. U.S.A., MO22 - Ft. U.S.A., MO22 - Ph: 877-862-8276, Fax: 614-454-7020
 1801 Plymouth Avenue, East, Ft. U.S.A., MO22 - Ph: 877-862-8276, Fax: 614-454-7020
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Rev: 10/01/2020 Date: 10/01/2020
 C.N. No. 143004 C.N. No. 143004
 Form No. RD138 Form No. RD138 Page 1 of 3

ZURN F7000 SERIES FLOW SENSOR INSTALLATION

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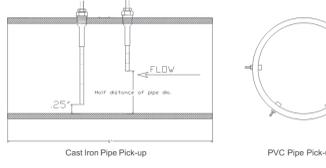
Installation Instructions	Notes	Notes
General Notes:		
A) Control	Connection required for all flow levels	Connection 1/2" gal. or more
B) Sensor	Connection as needed for application	Wires enclosed with the sensor
C) Drainage	Connection as needed for application	Wires enclosed with the sensor
D) Zurn F7000 Output	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	Output
E) Current Loop Output (4-20mA)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)
F) Voltage Level Output (V/LT)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)
G) Voltage Level Output (V/LT)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)
H) Voltage Level Output (V/LT)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)
I) Voltage Level Output (V/LT)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)
J) Voltage Level Output (V/LT)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)
K) Voltage Level Output (V/LT)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)
L) Voltage Level Output (V/LT)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)
M) Voltage Level Output (V/LT)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)
N) Voltage Level Output (V/LT)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)
O) Voltage Level Output (V/LT)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)
P) Voltage Level Output (V/LT)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)
Q) Voltage Level Output (V/LT)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)
R) Voltage Level Output (V/LT)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)
S) Voltage Level Output (V/LT)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)
T) Voltage Level Output (V/LT)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)
U) Voltage Level Output (V/LT)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)
V) Voltage Level Output (V/LT)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)
W) Voltage Level Output (V/LT)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)
X) Voltage Level Output (V/LT)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)
Y) Voltage Level Output (V/LT)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)
Z) Voltage Level Output (V/LT)	Control Method: 0V (output low "NIP" or high "NAP") level (control selected)	19V (DC - 30V)

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Rev: 10/01/2020 Date: 10/01/2020
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ZURN F7000 SERIES FLOW SENSOR INSTALLATION

Dimensional Data (Inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



Important Information

- If the overflow system is connecting to the primary on the horizontal the pickup must be in an elevated pipe section to prevent a false signal from water backing up the overflow pipe from the primary pipe.
- This product is not approved for use in hazardous locations or use with flammable liquids.
- This product is designed to be used with a properly designed drainage system where the overflow system flows water in only rare occasions due to blockage or excessive rainfall. Use in a system that flows overflow water on a frequent basis due to improper design or installation may cause pickup corrosion and reduce the service life of the pickup terminals.
- Removal of the pickup terminals will void warranty.
- This product is designed to monitor one overflow drain per sensor channel. Installation of the pickup sensor in a pipe with multiple upstream drains will not provide correct overflow notification.
- In some cases the wire from the pick-ups to the control box may need to be shielded due to high voltage or RF signals in close proximity to the pick-up wires.

Disclaimer

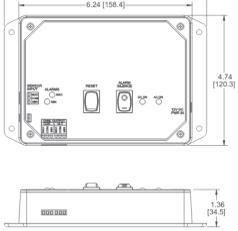
The use of the Zurn Flow Sensor to notify the building owner of an overflow system operation does not eliminate the need for maintenance. Maintenance may be still be required to maintain the proper operation of a roof drainage system.

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ZURN F7000 FLOW SENSOR

Dimensional Data (Inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



ENGINEERING SPECIFICATION: ZURN F7000

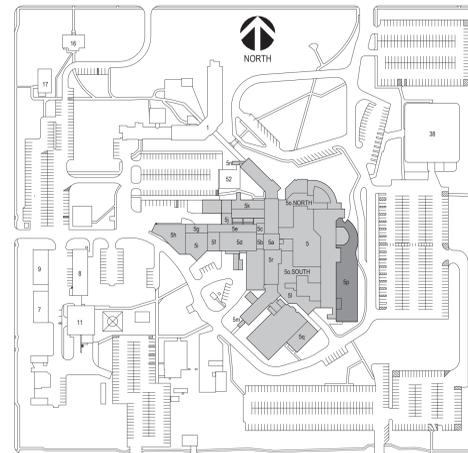
Flow Sensor: Indication of a primary system blockage or excessive flow through the outlet pipe. Outputs are current or voltage that will provide for connection to building management systems or control water actuators. Power is supplied to the unit from a 120 volt to 12 volt plug in transformer included with the sensor.

OPTIONS: (Check/Specify appropriate options)

PRESETS:
 Z77001 Single Channel Control Module
 Z77002 Five Channel Control Module

PIPE SIZE:
 2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 24, 28, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84, 90, 96, 102, 108, 114, 120, 126, 132, 138, 144, 150, 156, 162, 168, 174, 180, 186, 192, 198, 204, 210, 216, 222, 228, 234, 240, 246, 252, 258, 264, 270, 276, 282, 288, 294, 300, 306, 312, 318, 324, 330, 336, 342, 348, 354, 360, 366, 372, 378, 384, 390, 396, 402, 408, 414, 420, 426, 432, 438, 444, 450, 456, 462, 468, 474, 480, 486, 492, 498, 504, 510, 516, 522, 528, 534, 540, 546, 552, 558, 564, 570, 576, 582, 588, 594, 600, 606, 612, 618, 624, 630, 636, 642, 648, 654, 660, 666, 672, 678, 684, 690, 696, 702, 708, 714, 720, 726, 732, 738, 744, 750, 756, 762, 768, 774, 780, 786, 792, 798, 804, 810, 816, 822, 828, 834, 840, 846, 852, 858, 864, 870, 876, 882, 888, 894, 900, 906, 912, 918, 924, 930, 936, 942, 948, 954, 960, 966, 972, 978, 984, 990, 996, 1002, 1008, 1014, 1020, 1026, 1032, 1038, 1044, 1050, 1056, 1062, 1068, 1074, 1080, 1086, 1092, 1098, 1104, 1110, 1116, 1122, 1128, 1134, 1140, 1146, 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8124, 8130, 8136, 8142, 8148, 8154, 8160, 8166, 8172, 8178, 81

CAMPUS BUILDING KEY PLAN



GENERAL NOTES:

- A. MECHANICAL CONTRACTOR SHALL REFER TO SPECIFICATION MANUAL EDITED FOR THIS PROJECT ALONG WITH ANY APPLICABLE STANDARDS. ALL REQUIREMENTS OF THOSE MANUALS SHALL BE MAINTAINED IN ADDITION TO ALL NOTES AND DESCRIPTIONS INDICATED WITHIN THESE DRAWINGS. ANY CONFLICTS BETWEEN THOSE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION.
- B. WHERE APPLICABLE (FOR ANY INTERIOR STORM DRAIN PIPING SHOWN INSTALLED WITHIN BUILDINGS 5 AND 8). COORDINATE ALL NEW PIPE ROUTING WITH ALL OTHER EXISTING UTILITIES TO ENSURE ADEQUATE CLEARANCES FOR ELECTRICAL CONDUIT, HVAC DUCTWORK & PIPING, STRUCTURAL SUPPORTS, ETC. PROVIDE ALL OFFSETS & TRANSITIONS AS REQUIRED FOR A CLEAN INSTALLATION.
- C. NOTE THAT ALL INTERIOR STORM DRAIN, AND OVERFLOW STORM DRAIN, PIPING MUST BE FULLY INSULATED ON BOTH HORIZONTAL AND VERTICAL PIPE SECTIONS. REFER TO SPECIFICATION FOR LABELING OF PIPING AND IDENTIFICATION OF CLEANOUT ACCESS POINTS.
- D. THE EXACT LOCATION OF EXISTING ROOFTOP EQUIPMENT ROUGH-INS SHALL BE VERIFIED PRIOR TO REMOVAL AND REPLACEMENT. CONTRACTOR TO VERIFY SOURCE OF ALL SERVICES FOR ISOLATION.
- E. SUPPORT ALL PIPING DIRECTLY TO STRUCTURE. DO NOT SUPPORT ANY PIPING FROM DUCTWORK, CONDUIT OR OTHER PIPING ENCOUNTERED.
- F. WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED OR DISTURBED DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.
- G. COORDINATE ALL NEW ROOF DRAIN INSTALLATIONS. CONFIRM REQUIRED SIZE OF PENETRATION THROUGH STRUCTURAL ROOF TO BE DRILLED OR CUT BY THE CONTRACTOR. INFILL AROUND DRAIN BODY AND INCORPORATE INTO ROOFING MEMBRANE OR SYSTEM AS REQUIRED FOR WATER TIGHT SEAL.
- H. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL PIPING, FITTINGS, VALVES & ACCESSORIES AS REQUIRED FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
- I. CONTRACTOR TO PROVIDE CRANE RIGGING/PICK PLANS AT LEAST FOUR(4) WEEKS PRIOR TO SCHEDULED DATE. SUBMIT PLANS TO VA COR TO DISTRIBUTE TO APPROPRIATE SAFETY OFFICERS FOR DISRUPTION PLANNING. ALL DATES ARE TENTATIVE UNTIL APPROVED.
- J. WHERE APPLICABLE ON INTERIOR WORK, PROVIDE CLEANOUTS AT BASE OF EVERY STORM DRAIN LEADER PRIOR TO PENETRATING SLAB ON GRADE. REFER TO SPECIFICATIONS THAT ALL PIPING, ABOVE AND BELOW GRADE, MUST BE FABRICATED OF CAST IRON.
- K. CONTRACTOR SHALL MAINTAIN ACCURATE RECORD DRAWINGS SHOWING ALL DISCREPANCIES WITH ANY EXISTING PIPING INDICATED OR REVISIONS TO THE NEW PLUMBING OR FIRE PROTECTION LAYOUTS. ALL CHANGES WILL BE UPDATED WITHIN FINAL RECORD DRAWINGS.

KEY NOTES: PLUMBING NEW WORK

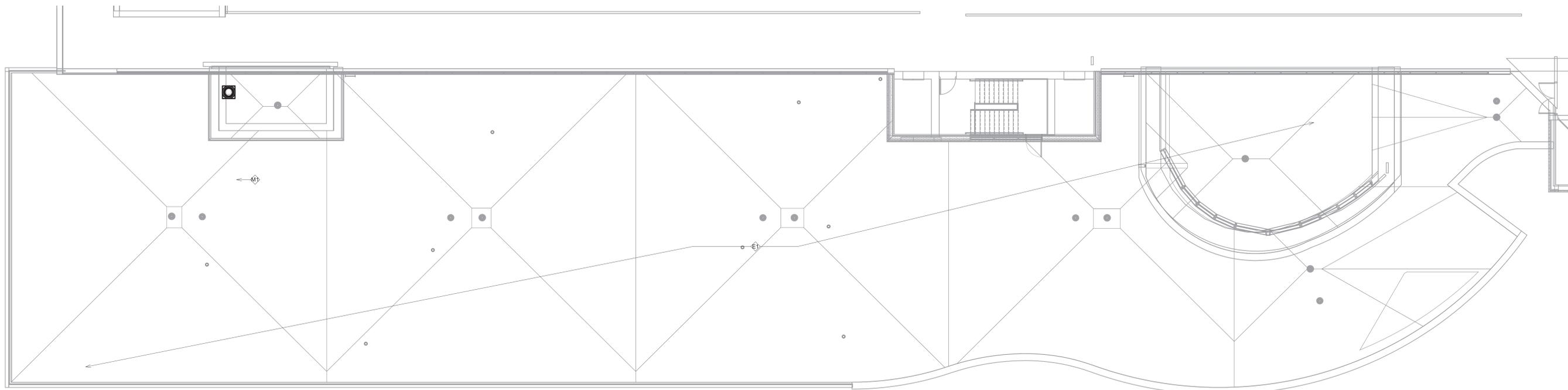
NO PLUMBING WORK ANTICIPATED FOR THIS DRAWING.

KEY NOTES: MECHANICAL NEW WORK

REINSTALL PRV FAN WITH CURB COUNTERFLASHING AND SEAL AIRTIGHT TO CURB. RECONNECT POWER AND CONTROL WIRING AND PERFORM START-UP TESTING FOR PROPER PERFORMANCE.

KEY NOTES: ELECTRICAL NEW WORK

RECONNECT LIGHTNING PROTECTION SYSTEM TO MATCH EXISTING CONDITIONS. VERIFY AIR TERMINAL CONNECTIONS AND ROOF PENETRATIONS SEALED AND FLASHED BY ROOFING CONTRACTOR.

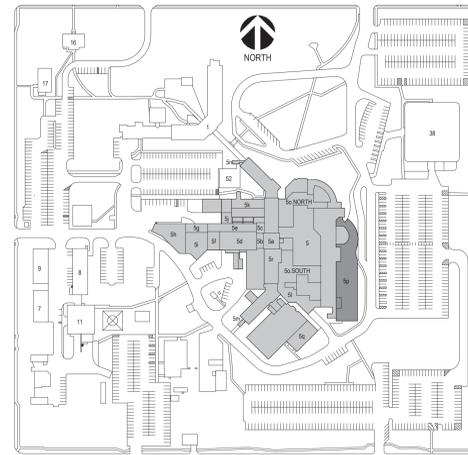


MECHANICAL, ELECTRICAL, PLUMBING ROOF PLAN - P. UPPER
1/8" = 1'-0"



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Approved:		FOR OFFICIAL USE ONLY		Location SIoux FALLS, SOUTH DAKOTA		Issue Date 09-15-2023		Checked JRG		Drawn JG,TM,BZ		Building Number 05		Drawing Number 05.MEP126			

CAMPUS BUILDING KEY PLAN



GENERAL NOTES:

- A. MECHANICAL CONTRACTOR SHALL REFER TO SPECIFICATION MANUAL EDITED FOR THIS PROJECT ALONG WITH ANY APPLICABLE STANDARDS. ALL REQUIREMENTS OF THOSE MANUALS SHALL BE MAINTAINED IN ADDITION TO ALL NOTES AND DESCRIPTIONS INDICATED WITHIN THESE DRAWINGS. ANY CONFLICTS BETWEEN THOSE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION.
- B. WHERE APPLICABLE (FOR ANY INTERIOR STORM DRAIN PIPING SHOWN INSTALLED WITHIN BUILDINGS 1 AND 2B), COORDINATE ALL NEW PIPE ROUTING WITH ALL OTHER EXISTING UTILITIES TO ENSURE ADEQUATE CLEARANCES FOR ELECTRICAL CONDUIT, HVAC DUCTWORK & PIPING, STRUCTURAL SUPPORTS, ETC. PROVIDE ALL OFFSETS & TRANSITIONS AS REQUIRED FOR A CLEAN INSTALLATION.
- C. NOTE THAT ALL INTERIOR STORM DRAIN, AND OVERFLOW STORM DRAIN, PIPING MUST BE FULLY INSULATED ON BOTH HORIZONTAL AND VERTICAL PIPE SECTIONS. REFER TO SPECIFICATION FOR LABELING OF PIPING AND IDENTIFICATION OF CLEANOUT ACCESS POINTS.
- D. THE EXACT LOCATION OF EXISTING ROOFTOP EQUIPMENT ROUGH-INS SHALL BE VERIFIED PRIOR TO REMOVAL AND REPLACEMENT. CONTRACTOR TO VERIFY SOURCE OF ALL SERVICES FOR ISOLATION.
- E. SUPPORT ALL PIPING DIRECTLY TO STRUCTURE. DO NOT SUPPORT ANY PIPING FROM DUCTWORK, CONDUIT OR OTHER PIPING ENCOUNTERED.
- F. WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED OR DISTURBED DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.
- G. COORDINATE ALL NEW ROOF DRAIN INSTALLATIONS. CONFIRM REQUIRED SIZE OF PENETRATION THROUGH STRUCTURAL ROOF TO BE DRILLED OR CUT BY THE CONTRACTOR. INFILL AROUND DRAIN BODY AND INCORPORATE INTO ROOFING MEMBRANE OR SYSTEM AS REQUIRED FOR WATER TIGHT SEAL.
- H. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL PIPING, FITTINGS, VALVES & ACCESSORIES AS REQUIRED FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
- I. CONTRACTOR TO PROVIDE CRANE RIGGING/PICK PLANS AT LEAST FOUR(4) WEEKS PRIOR TO SCHEDULED DATE. SUBMIT PLANS TO VA COR TO DISTRIBUTE TO APPROPRIATE SAFETY OFFICERS FOR DISRUPTION PLANNING. ALL DATES ARE TENTATIVE UNTIL APPROVED.
- J. WHERE APPLICABLE ON INTERIOR WORK, PROVIDE CLEANOUTS AT BASE OF EVERY STORM DRAIN LEADER PRIOR TO PENETRATING SLAB ON GRADE. REFER TO SPECIFICATIONS THAT ALL PIPING, ABOVE AND BELOW GRADE, MUST BE FABRICATED OF CAST IRON.
- K. CONTRACTOR SHALL MAINTAIN ACCURATE RECORD DRAWINGS SHOWING ALL DISCREPANCIES WITH ANY EXISTING PIPING INDICATED OR REVISIONS TO THE NEW PLUMBING OR FIRE PROTECTION LAYOUTS. ALL CHANGES WILL BE UPDATED WITHIN FINAL RECORD DRAWINGS.

KEY NOTES: PLUMBING NEW WORK

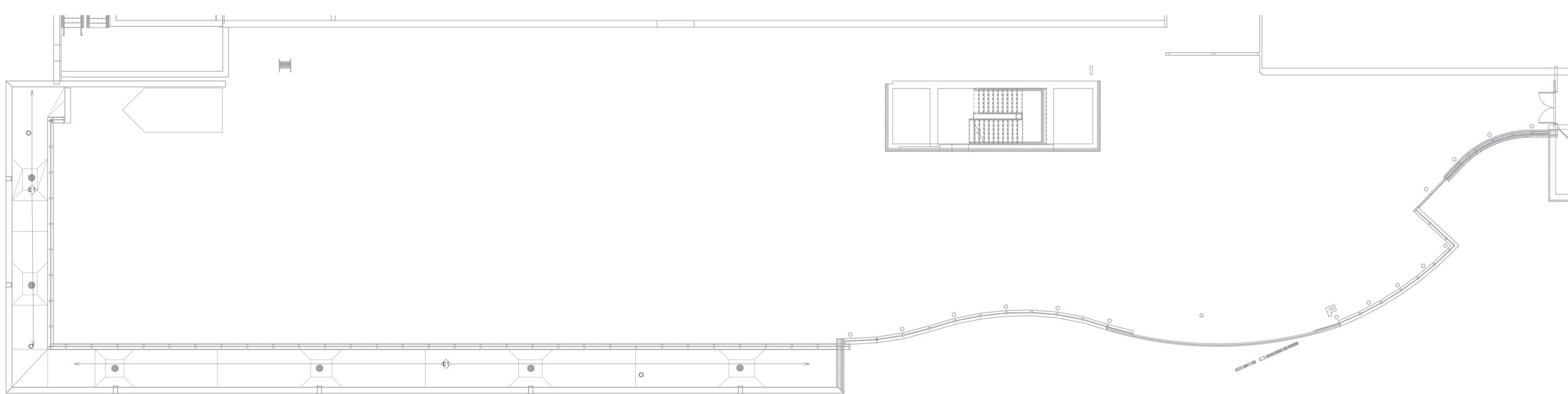
NO PLUMBING WORK ANTICIPATED FOR THIS DRAWING.

KEY NOTES: MECHANICAL NEW WORK

NO MECHANICAL WORK ANTICIPATED FOR THIS DRAWING.

KEY NOTES: ELECTRICAL NEW WORK

RECONNECT LIGHTNING PROTECTION SYSTEM TO MATCH EXISTING CONDITIONS. VERIFY AIR TERMINAL CONNECTIONS AND ROOF PENETRATIONS SEALED AND FLASHED BY ROOFING CONTRACTOR.



MECHANICAL, ELECTRICAL, PLUMBING ROOF PLAN - P.LOWER
1/8" = 1'-0"

Revision#	Description	Date:

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

Drawing Title
M/E/P ROOF PLAN - P.LOWER

Approved:

Phase
CONSTRUCTION DOCUMENTS

FOR OFFICIAL USE ONLY

Project Title
SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS

Location
SIOUX FALLS, SOUTH DAKOTA

Issue Date
09-15-2023

Checked
JRG

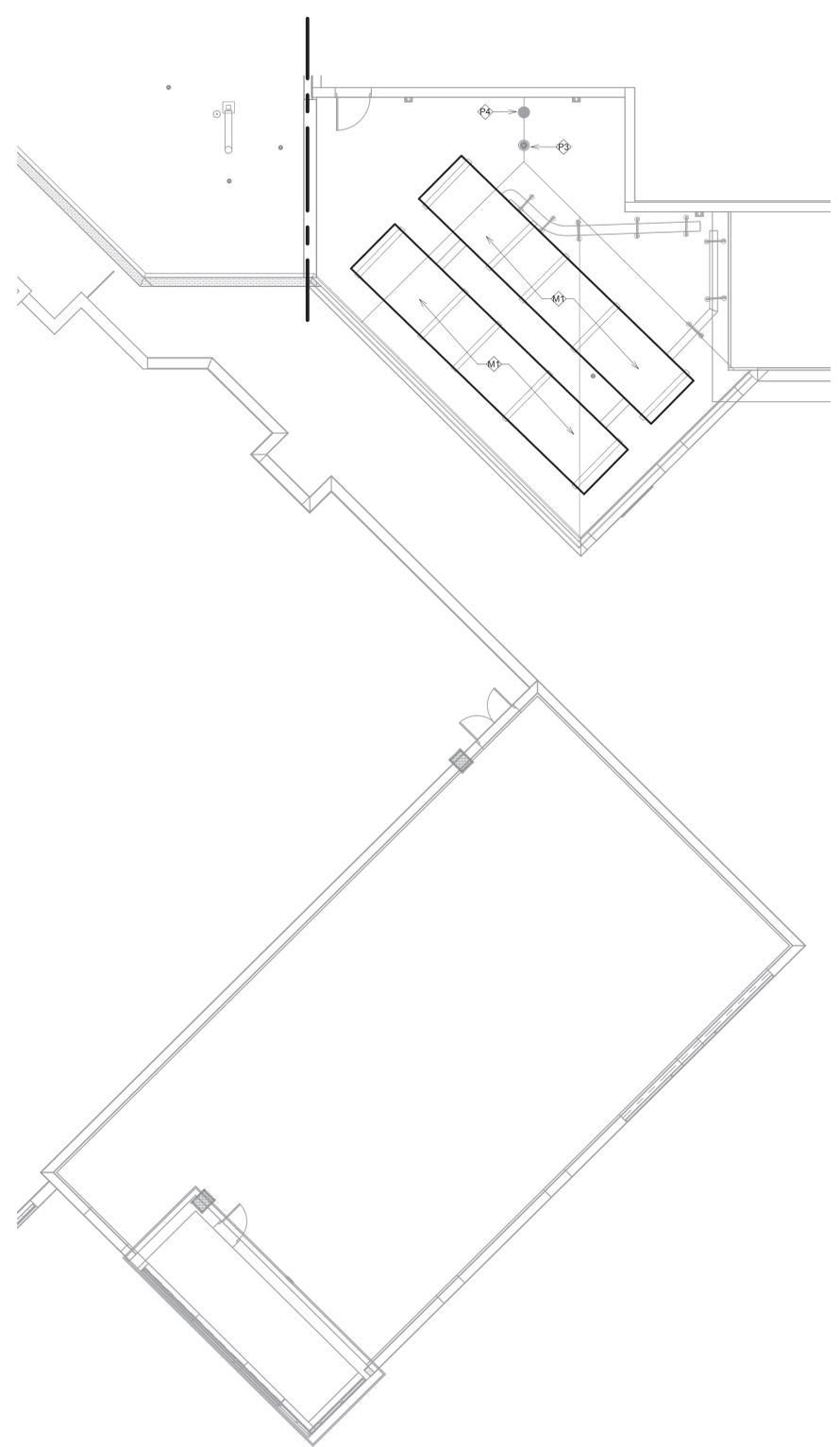
Drawn
JG,TM,BZ

Project Number
VA #VA #438-22-600
SGA #221926

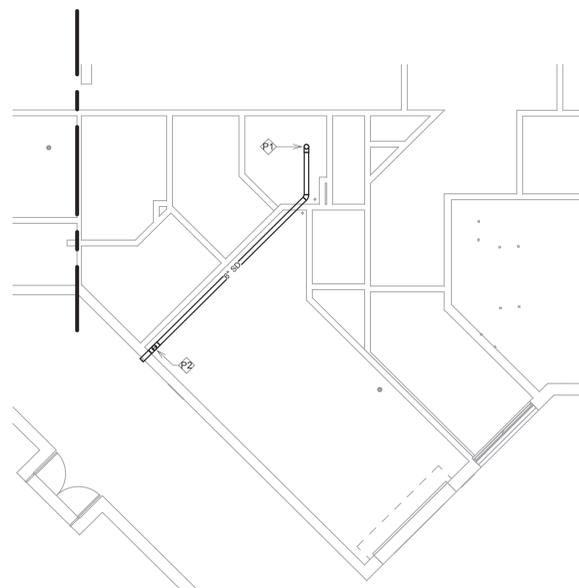
Building Number
05

Drawing Number
05.MEP127

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



1 MECHANICAL, ELECTRICAL, PLUMBING ROOF PLAN - Q, S
 1/8" = 1'-0"



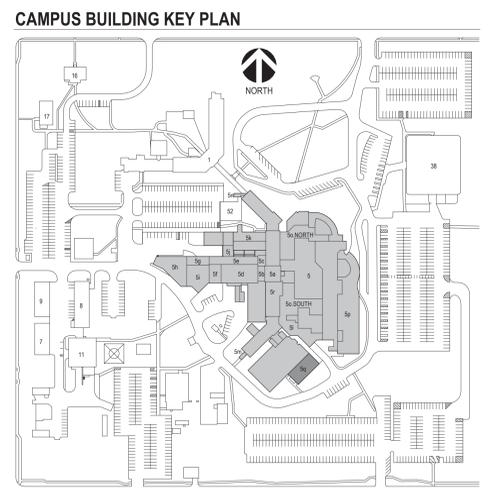
2 MECHANICAL, ELECTRICAL, PLUMBING INTERIOR PLAN - S
 1/8" = 1'-0"

- GENERAL NOTES:**
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- KEY NOTES: PLUMBING NEW WORK**
- 6" OVERFLOW DRAIN UP TO NEW STORM DRAIN (OR ORD) ABOVE. REFER TO DRAWING DETAIL 105.MEP128 FOR CONTINUATION.
 - ROUTE 6" OVERFLOW STORM DRAIN PIPE MAIN DOWN EXTERIOR WALL OF BUILDING. EXTEND OVERFLOW STORM DRAIN PIPING OUT THROUGH WALL AND TERMINATE WITH DOWNSPOUT NOZZLE, ZURN Z199-SS, WITH STAINLESS STEEL BIRD SCREEN. DISCHARGE ONTO CONCRETE SPLASH BLOCK APPROXIMATELY 24" ABOVE GRADE.
 - PROVIDE NEW ROOF DRAIN, JOSAM MODEL 21500-AE-03-23, OR EQUAL WITH DECK CLAMP AND RECEIVER (-03) AND ROUGH BRONZE DOME (-23). COORDINATE PENETRATION OF METAL DECK ROOF STRUCTURE AS REQUIRED. NOTE THAT OVERFLOW DRAINS SHALL ALSO BE PROVIDED WITH 2" EXTENSION COLLARS (-17).
 - EXISTING DRAINS SHALL HAVE EXISTING DOMES REPLACED WITH BRONZE DOMES (-23) TO MATCH NEW ROOF DRAINS. VERIFY FIT WITH CURRENT MANUFACTURER/MODEL. ALSO PROVIDE 2" EXTENSION COLLARS (-17) FOR DRAINS TO BE CONVERTED TO OVERFLOW. REFER TO NOTES ON FIRST FLOOR PLUMBING DRAWINGS.

- KEY NOTES: MECHANICAL NEW WORK**
- REFER TO DEMOLITION DRAWING 05.MEPD128 INDICATING CRANE REMOVAL AND TEMPORARY TRANSPORT OFF SITE OF THESE LARGE AIR-COOLED CHILLERS. PROVIDE ALL NEW ROOF RAILS ONCE ROOFING MEMBRANE HAS BEEN REMOVE. NEW HEIGHT OF ROOF RAILS SHALL BE A MINIMUM OF 22" HIGH TO ACCOMMODATE ROOF INSULATION. CONTRACTOR TO VERIFY ADEQUATE SUPPORT LOCATIONS, AND WEIGHTS AT THOSE POINT LOADS. FOR THESE SPECIFIC CHILLERS ON SITE. SHOP DRAWINGS WILL BE PROVIDED FOR VERIFICATION AND REFERENCE. ONCE ROOFING WORK OVER NEW SUPPORT RAILS AS COMPLETED, THE MECHANICAL CONTRACTOR WILL PROVIDE A SECOND CRANE PICK PLANS TO PUT CHILLER BACK INTO PLACE AND RECONNECT ALL PIPING MAKING MODIFICATION TO ACCOUNT FOR SLIGHTLY ELEVATED POSITION.

- KEY NOTES: ELECTRICAL NEW WORK**
- NO ELECTRICAL WORK ANTICIPATED FOR THIS DRAWING.



Revision#	Description	Date:

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REGISTERED PROFESSIONAL ENGINEER
 REG. NO. 14944
 JASON R. GOTTWALT
 SOUTH DAKOTA

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

Drawing Title
 M/E/P ROOF PLAN - Q, S

Approved:

Phase
 CONSTRUCTION DOCUMENTS

FOR OFFICIAL USE ONLY

Project Title
 SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS

Project Number
 VA #VA #438-22-600
 SGA #221926
 Building Number
 05

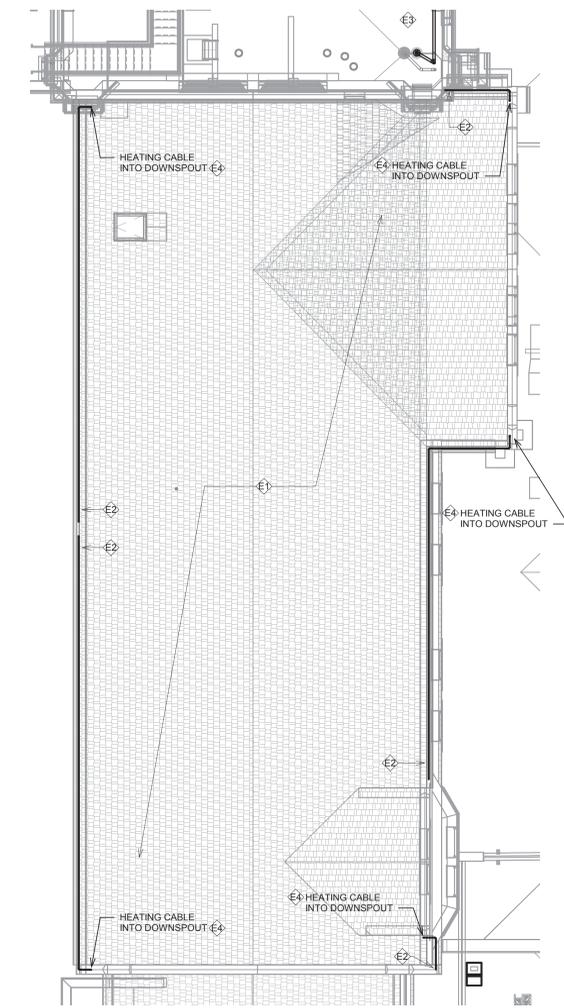
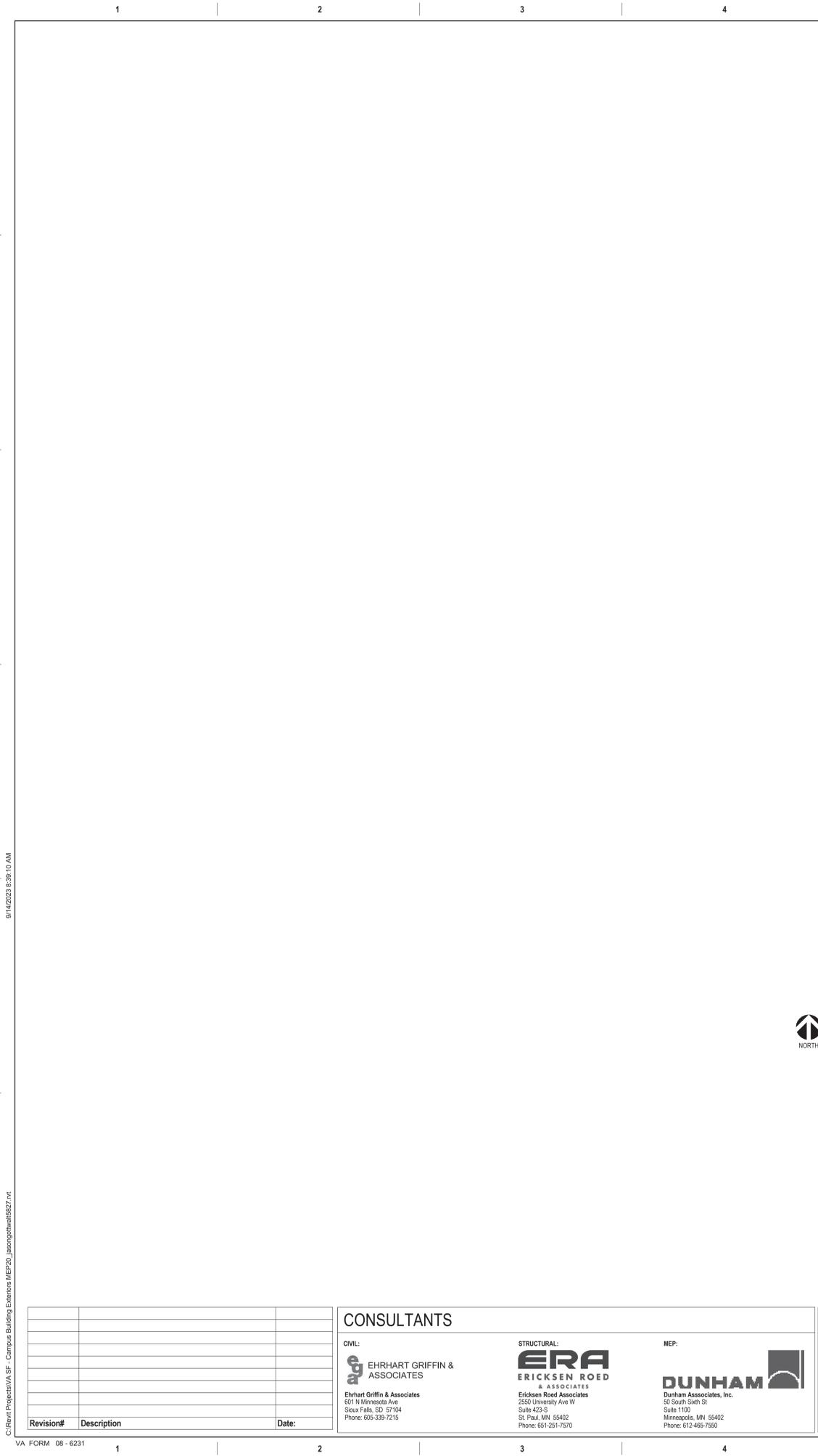
Drawing Number
 05.MEP128

Issue Date
 09-15-2023

Checked
 JRG

Drawn
 JG, TM, BZ

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



1 MECHANICAL, ELECTRICAL, PLUMBING ROOF PLAN - R
 1/8" = 1'-0"

- GENERAL NOTES:**
- MECHANICAL CONTRACTOR SHALL REFER TO SPECIFICATION MANUAL EDITED FOR THIS PROJECT ALONG WITH ANY APPLICABLE STANDARDS. ALL REQUIREMENTS OF THOSE MANUALS SHALL BE MAINTAINED IN ADDITION TO ALL NOTES AND DESCRIPTIONS INDICATED WITHIN THESE DRAWINGS. ANY CONFLICTS BETWEEN THOSE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION.
 - WHERE APPLICABLE (FOR ANY INTERIOR STORM DRAIN PIPING SHOWN INSTALLED WITHIN BUILDINGS 5 AND 8). COORDINATE ALL NEW PIPE ROUTING WITH ALL OTHER EXISTING UTILITIES TO ENSURE ADEQUATE CLEARANCES FOR ELECTRICAL CONDUIT, HVAC DUCTWORK & PIPING, STRUCTURAL SUPPORTS, ETC. PROVIDE ALL OFFSETS & TRANSITIONS AS REQUIRED FOR A CLEAN INSTALLATION.
 - NOTE THAT ALL INTERIOR STORM DRAIN, AND OVERFLOW STORM DRAIN, PIPING MUST BE FULLY INSULATED ON BOTH HORIZONTAL AND VERTICAL PIPE SECTIONS. REFER TO SPECIFICATION FOR LABELING OF PIPING AND IDENTIFICATION OF CLEANOUT ACCESS POINTS.
 - THE EXACT LOCATION OF EXISTING ROOFTOP EQUIPMENT ROUGH-INS SHALL BE VERIFIED PRIOR TO REMOVAL AND REPLACEMENT. CONTRACTOR TO VERIFY SOURCE OF ALL SERVICES FOR ISOLATION.
 - SUPPORT ALL PIPING DIRECTLY TO STRUCTURE. DO NOT SUPPORT ANY PIPING FROM DUCTWORK, CONDUIT OR OTHER PIPING ENCOUNTERED.
 - WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED OR DISTURBED DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.
 - COORDINATE ALL NEW ROOF DRAIN INSTALLATIONS. CONFIRM REQUIRED SIZE OF PENETRATION THROUGH STRUCTURAL ROOF TO BE DRILLED OR CUT BY THE CONTRACTOR. INFILL AROUND DRAIN BODY AND INCORPORATE INTO ROOFING MEMBRANE OR SYSTEM AS REQUIRED FOR WATER TIGHT SEAL.
 - THE PLUMBING CONTRACTOR SHALL PROVIDE ALL PIPING, FITTINGS, VALVES & ACCESSORIES AS REQUIRED FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
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 - WHERE APPLICABLE ON INTERIOR WORK. PROVIDE CLEANOUTS AT BASE OF EVERY STORM DRAIN LEADER PRIOR TO PENETRATING SLAB ON GRADE. REFER TO SPECIFICATIONS THAT ALL PIPING, ABOVE AND BELOW GRADE, MUST BE FABRICATED OF CAST IRON.
 - CONTRACTOR SHALL MAINTAIN ACCURATE RECORD DRAWINGS SHOWING ALL DISCREPANCIES WITH ANY EXISTING PIPING INDICATED OR REVISIONS TO THE NEW PLUMBING OR FIRE PROTECTION LAYOUTS. ALL CHANGES WILL BE UPDATED WITHIN FINAL RECORD DRAWINGS.

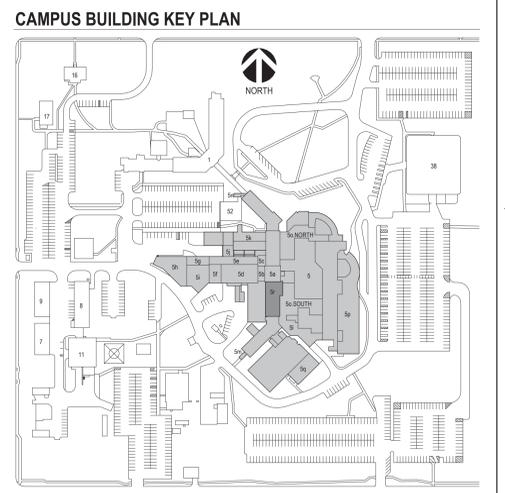
KEY NOTES: PLUMBING NEW WORK

NO PLUMBING WORK ANTICIPATED FOR THIS DRAWING.

KEY NOTES: MECHANICAL NEW WORK

NO MECHANICAL WORK ANTICIPATED FOR THIS DRAWING.

- KEY NOTES: ELECTRICAL NEW WORK**
- 1 RECONNECT LIGHTNING PROTECTION SYSTEM TO MATCH EXISTING CONDITIONS. VERIFY AIR TERMINAL CONNECTIONS AND ROOF PENETRATIONS SEALED AND FLASHED BY ROOFING CONTRACTOR.
 - 2 PROVIDE SELF-REGULATING HEATING CABLE WITH BRAID AND TEFLON STABILIZED POLYOLEFIN JACKET, CHROMALOX MODEL SRF-1RGT OR EQUAL, WITH ALL HORIZONTAL GUTTERS AND VERTICAL DOWNSPOUTS. START CABLING FROM POINT INDICATED THROUGH HORIZONTAL GUTTER, AND INCLUDE DOWNSPOUT HANGERS TO SUPPORT CABLE DROPS TO TERMINATE JUST ABOVE GRADE. CONTRACTOR TO VERIFY LENGTHS OF CABLE REQUIRED AND PROVIDE ALL POWER CONNECTION KITS FOR FINAL CONNECTION BY ELECTRICAL CONTRACTOR. PROVIDE GFI BREAKER AS REQUIRED BY NEC AND SIZED PER MANUFACTURER MAXIMUM CIRCUIT LENGTHS REQUIREMENTS. PROVIDE DEDICATED CIRCUIT FROM NEAREST SOURCE.
 - 3 APPROXIMATE LOCATION OF EXISTING ELECTRICAL PANEL ON FOURTH FLOOR(4th AND 4th HALLWAY). ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL CEILING REMOVAL AND REPLACEMENT TO ROUTE CONDUIT WITHIN BUILDING TO EACH LOCATION INDICATED BY KEY NOTE #2 ABOVE AND SEAL ROOF OR WALL PENETRATION AS REQUIRED. COORDINATE ACCESS TO BUILDING AREAS REQUIRED TO PERFORM WORK A MINIMUM OF 2-WEEKS IN ADVANCE AND COMPLY WITH ALL VA INSPECTION CONTROL REQUIREMENTS.
 - 4 ROUTE HEATING CABLE DOWN WITHIN VERTICAL DOWNSPOUT. SUPPORT AT TOP OF CABLE WITH DOWNSPOUT HANGER (RDK-1) AND TERMINATE ABOVE POINT OF DISCHARGE WITH END SEAL KIT (RG-EK-1).



Revision#	Description	Date:

CONSULTANTS

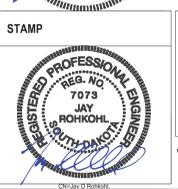
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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

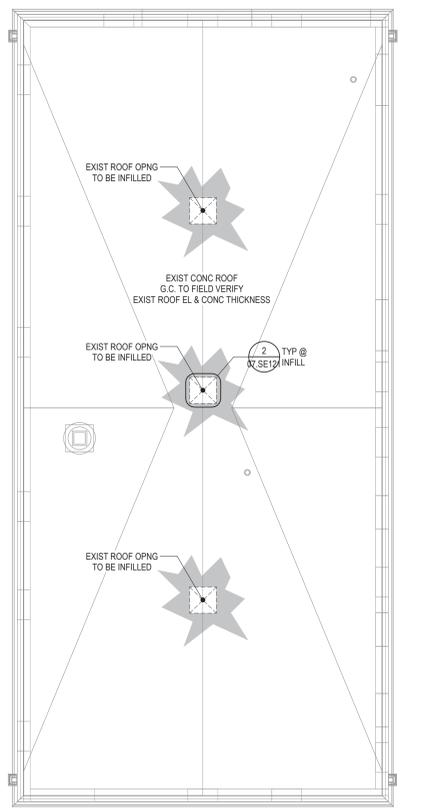
Drawing Title M/E/P ROOF PLAN - R
Approved:

Phase
CONSTRUCTION DOCUMENTS

FOR OFFICIAL USE ONLY

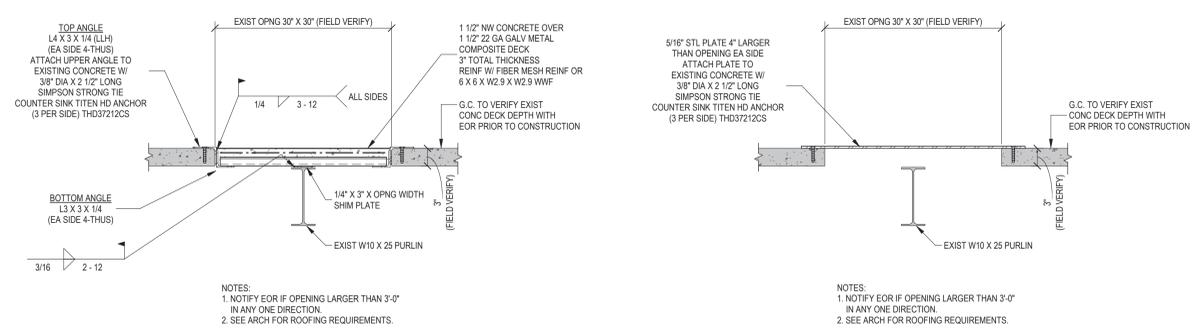
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Location SIoux FALLS, SOUTH DAKOTA	Building Number 05
Issue Date 09-15-2023	Drawing Number 05.MEP129
Checked JRG	Drawn JG,TM,BZ

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



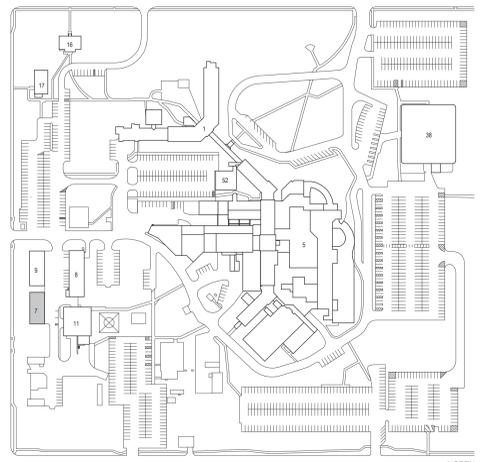
1 ROOF PLAN - 7
 07.SE121 1/8" = 1'-0" NORTH

INFORMATION ON THIS PLAN REGARDING EXISTING STRUCTURE WAS TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS. ACTUAL FIELD CONDITION MAY VARY FROM WHAT IS SHOWN. ALL DIMENSIONS, ELEVATIONS AND CONDITIONS OF EXISTING STRUCTURE TO BE FIELD VERIFIED PRIOR TO FABRICATION.



BUILDING 7 ROOF OPENING - OPTION A CONCRETE OVER METAL DECK INFILL IN EXISTING CONCRETE DECK
 BUILDING 7 ROOF OPENING - OPTION B METAL PLATE INFILL OVER EXISTING CONCRETE DECK

2 SECTION/DETAIL
 07.SE121 1" = 1'-0"



KEY PLAN
 1" = 200'-0" NORTH

Revision #	Description	Date:
1		

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REGISTERED PROFESSIONAL ENGINEER
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 SOUTH DAKOTA
 9/15/2023

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

Drawing Title
STRUCTURAL - ROOF PLAN & DETAILS

Approved:

Phase
CONSTRUCTION DOCUMENTS

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Project Title
SIoux FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS

Location
SIoux FALLS, SOUTH DAKOTA

Issue Date
 09-15-2023

Checked
 TDN

Drawn
 CS/MJD

Project Number
 VA #438-22-600
 ERA #20221954

Building Number
 07

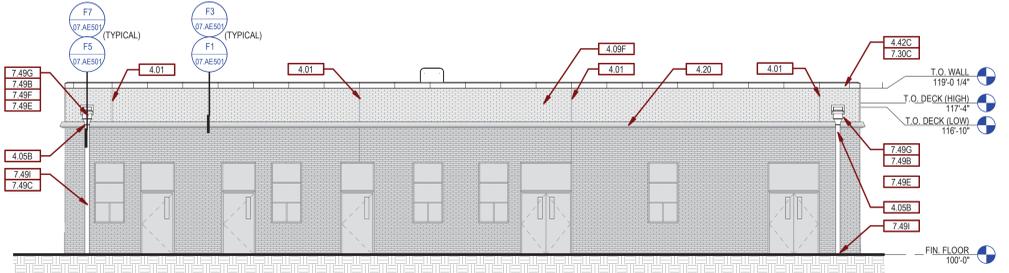
Drawing Number
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GENERAL ELEVATION NOTES:

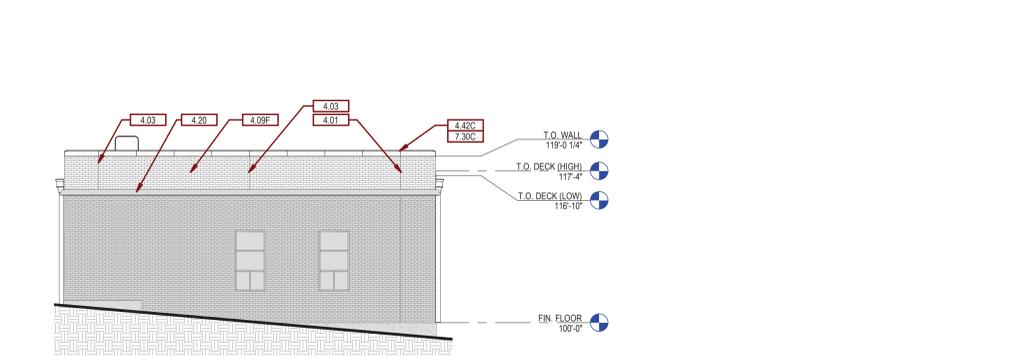
- A. ANY DISCREPANCIES OR CONFLICTS FOUND IN THE VARIOUS PARTS OF THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE OWNER BEFORE PROCEEDING WITH THE WORK.
- B. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS.
- C. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AT THE PROJECT SITE.
- D. ALL MATERIALS & EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.

KEYNOTES_SGA	
Key Value	Keynote Text
4.01	MAS CONTROL JOINT W/ COMPRESSIBLE JOINT FILLER, BACKER ROD AND SLIT.
4.03	SAWCUT NEW CONTROL JOINT IN BRK AND INSTALL COMPRESSIBLE JOINT FILLER, BACKER ROD AND SLIT.
4.05B	ENLARGE NOTCH IN LIMESTONE TRIM AS REQD TO ACCOMMODATE NEW LOWERED CONDUCTOR HEAD. FINISH CUT SURFACES TO MATCH EXISTING.
4.09F	REPOINT AND WASH BRK MAS - ASSUME BRK REPLACEMENT AT A RATE OF 30% W/ MATCHING BRK.
4.20	CLEAN EXISTING LIMESTONE PARAPET CAPS AND TRIM.
4.42C	REMOVE EXISTING LIMESTONE PARAPET CAPS AND FLASHING. SALVAGE CAPSTONES FOR REINSTALLATION. CLEAN SALVAGED LIMESTONE PARAPET CAPS AND REINSTALL W/ NEW S.S. FLASHING. (TYP U.N.O.)
7.30C	RAKE OUT LIMESTONE CAP HEAD JOINTS AND INSTALL BACKER ROD AND SLIT.
7.49B	REMOVE COPPER CONDUCTOR HEAD.
7.49C	REMOVE COPPER D.S.
7.49E	REMOVE COPPER THRU-WALL SCUPPER.
7.49F	NEW COPPER THRU-WALL SCUPPER (20 OZ) IN EXISTING OPENING W/ 2 3/4" FACE FLANGE TO MATCH EXISTING.
7.49G	NEW PRE-FAB COPPER CONDUCTOR HEAD (CHURCHILL STYLE 17" X 9" X 20 1/2" - 20 OZ).
7.49I	NEW 3" X 4" RIBBED COPPER D.S. (20 OZ) - COPPER WALL BRACKETS @ 8'-0" O.C. MAX. TIE INTO EXISTING STORM PIPING.

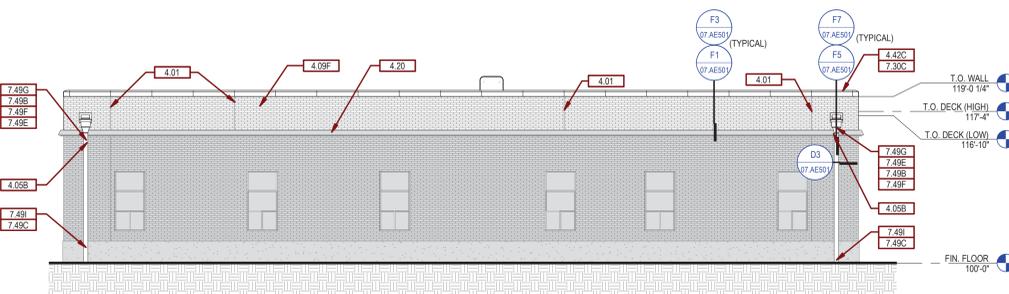
B1 NORTH ELEVATION
1/8" = 1'-0"



C1 EAST ELEVATION
1/8" = 1'-0"



E1 SOUTH ELEVATION
1/8" = 1'-0"

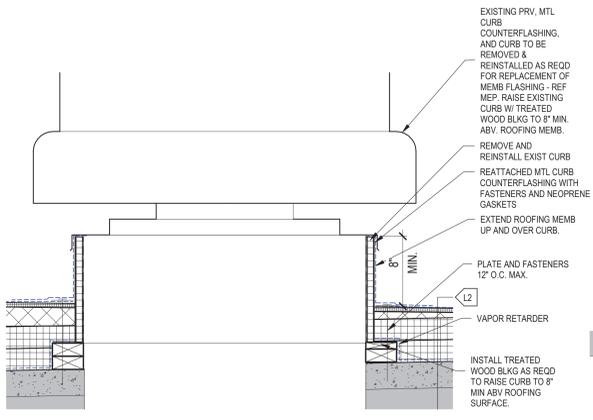


F1 WEST ELEVATION
1/8" = 1'-0"

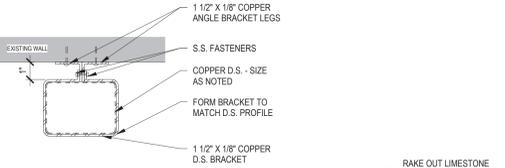


	<p>CONSULTANTS</p> <p>CIVIL: EHRHART GRIFFIN & ASSOCIATES 601 N Minnesota Ave Sioux Falls, SD 57104 Phone: 605-339-7215</p> <p>STRUCTURAL: ERA ERICKSEN ROED & ASSOCIATES Ericksen Roed Associates 2550 University Ave W Suite 423-S St. Paul, MN 55402 Phone: 651-251-7570</p> <p>MEP: DUNHAM Dunham Associates, Inc. 50 South Sixth St Suite 1100 Minneapolis, MN 55402 Phone: 612-465-7550</p>	<p>ARCHITECT OF RECORD</p> <p>STONE GROUP ARCHITECTS Stone Group Architects, Inc. 600 East 7th Street Sioux Falls, SD 57103 Phone: 605-271-1144</p>	<p>STAMP</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title ARCHITECTURAL - ELEVATIONS</p> <p>Approved:</p>	<p>Phase CONSTRUCTION DOCUMENTS</p>	<p>Project Title SIoux FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS</p>	<p>Project Number VA #438-22-600 SGA #221926</p> <p>Building Number 07</p> <p>Drawing Number 07. AE201</p>
<p>Revision# Description Date:</p>								

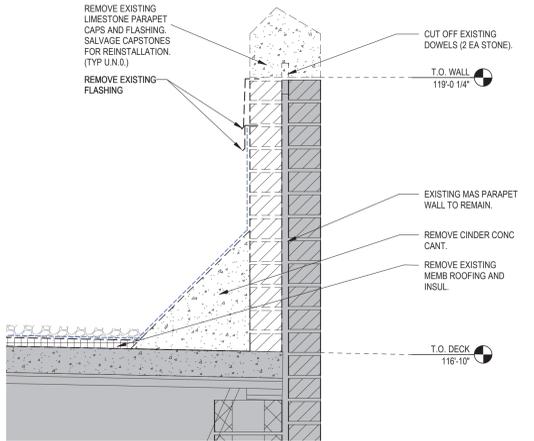
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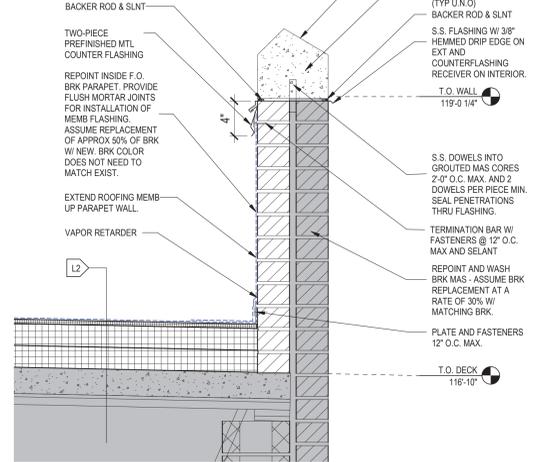
D1 RAISED MECHANICAL EQUIPMENT CURB DETAIL - NEW
 1 1/2" = 1'-0"
 E6 / 07.AE121



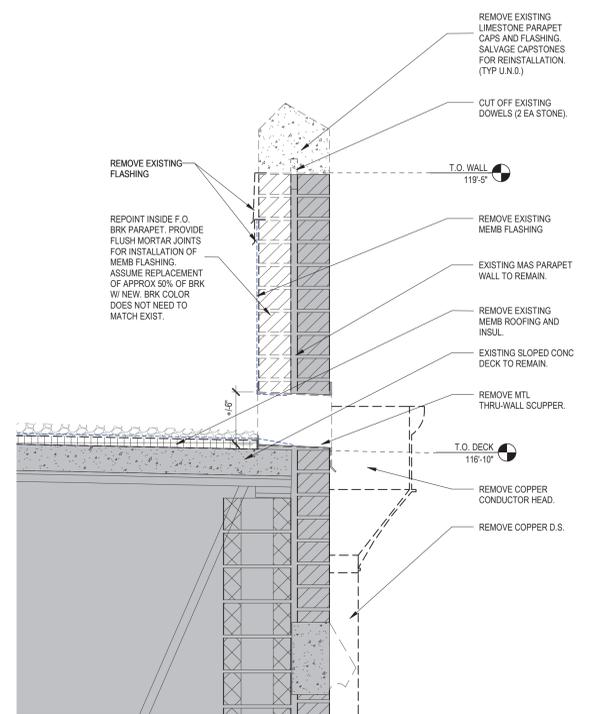
D3 DOWNSPOUT BRACKET DETAIL - TYPICAL
 3" = 1'-0"
 E6 / 07.AE121



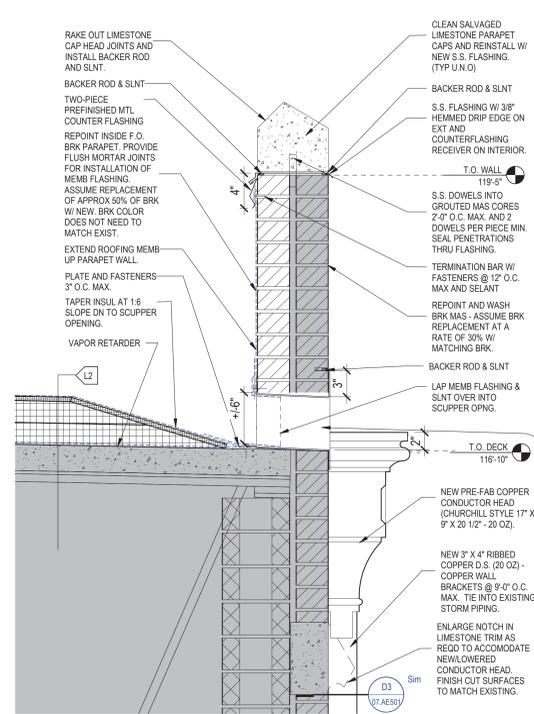
F1 PARAPET DETAIL - DEMOLITION
 1 1/2" = 1'-0"
 E3 / 07.AE121



F3 PARAPET DETAIL - NEW
 1 1/2" = 1'-0"
 E6 / 07.AE121



F5 PARAPET / SCUPPER / CONDUCTOR HEAD DETAIL - DEMOLITION
 1 1/2" = 1'-0"
 E3 / 07.AE121



F7 PARAPET / SCUPPER / CONDUCTOR HEAD DETAIL - NEW
 1 1/2" = 1'-0"
 E6 / 07.AE121

Revision#	Description	Date:

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STAMP
 REGISTERED ARCHITECT
 REC. NO. 9771
 TROY D. MOYER
 SOUTH DAKOTA
 9-15

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

Drawing Title
 ARCHITECTURAL - DETAILS

Approved:

Phase
 CONSTRUCTION DOCUMENTS

Project Title
 SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS

Project Number
 VA #438-22-600
 SGA #221926
 Building Number 07

Location
 SIOUX FALLS, SOUTH DAKOTA

Issue Date
 09-15-2023

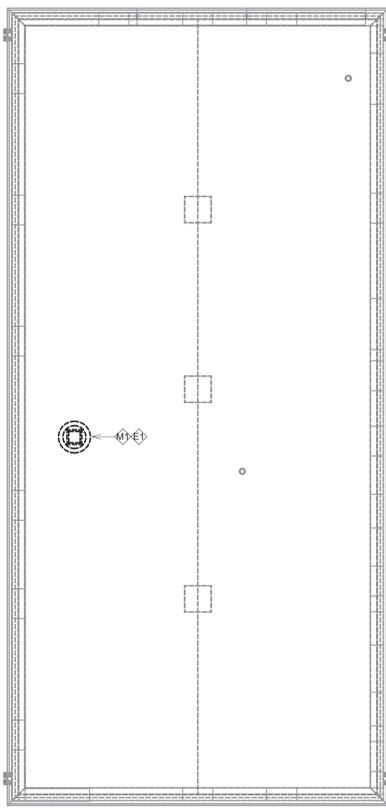
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Drawn
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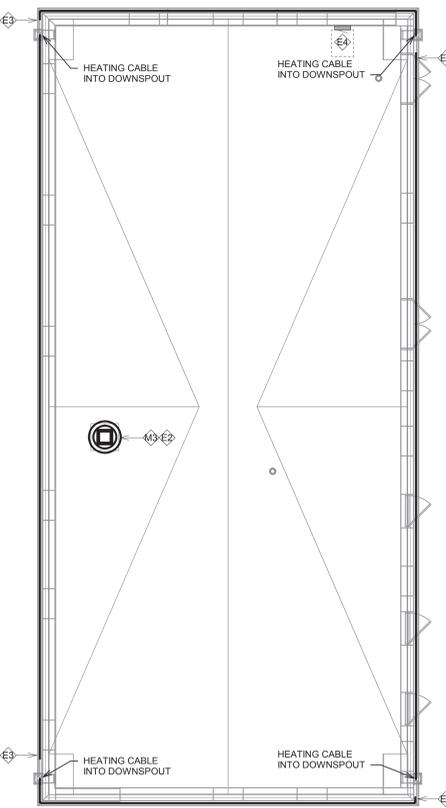
Drawing Number
 07. AE501

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 one inch = one foot
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 three eighths inch = one foot
 one quarter inch = one foot
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9/14/2023 8:39:20 AM
 C:\Revit\Projects\VA_SF - Campus Building Exteriors MEP20_jason@stgva1027.rvt



2 DEMOLITION MECHANICAL, ELECTRICAL, PLUMBING ROOF PLAN
 1/8" = 1'-0"



1 MECHANICAL, ELECTRICAL, PLUMBING ROOF PLAN
 1/8" = 1'-0"

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KEY NOTES: PLUMBING NEW WORK

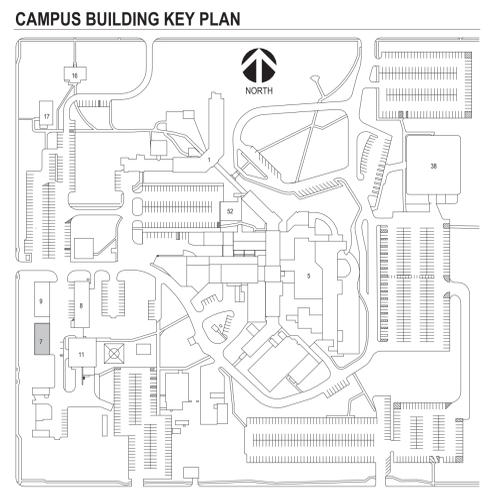
NO PLUMBING WORK IS ANTICIPATED ON THIS DRAWING.

KEY NOTES: MECHANICAL NEW WORK

- M1) TEMPORARILY REMOVE EXISTING EXHAUST FAN AND CURB COUNTERFLASHING TO ALLOW ROOFING CONTRACTOR TO APPLY MEMBRANE FLASHING ON TOP OF CURB. COORDINATE SCHEDULE FOR EXHAUST FAN OUTAGE WITH VA COR.
- M2) NOT USED.
- M3) REINSTALL PREVIOUSLY REMOVED EXHAUST FAN AND CURB COUNTERFLASHING. RECONNECT ALL WIRING AND PERFORM BASIC START-UP SERVICES. REPORT ANY DEFICIENCIES FOUND TO VA COR.

KEY NOTES: ELECTRICAL NEW WORK

- E1) DISCONNECT ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT. COORDINATE WITH VA COR AND MECHANICAL CONTRACTOR IF TEMPORARY POWER IS REQUIRED.
- E2) RECONNECT ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT. MODIFY EXISTING FEEDER AS REQUIRED.
- E3) PROVIDE SELF-REGULATING HEATING CABLE WITH BRAID AND TEFLON STABILIZED POLYOLEFIN JACKET. CHROMALOX MODEL SRF-1RGT OR EQUAL. WITHIN ALL HORIZONTAL GUTTERS AND VERTICAL DOWNSPOUTS. START CABLING FROM POINT INDICATED THROUGH HORIZONTAL GUTTER. AND INCLUDE DOWNSPOUT HANGERS TO SUPPORT CABLE DROPS TO TERMINATE JUST ABOVE GRADE. CONTRACTOR TO VERIFY LENGTHS OF CABLE REQUIRED AND PROVIDE ALL POWER CONNECTION KITS FOR FINAL CONNECTION BY ELECTRICAL CONTRACTOR. PROVIDE GFCI BREAKER AS REQUIRED BY NEC AND SIZED PER MANUFACTURER MAXIMUM CIRCUIT LENGTHS REQUIREMENTS. PROVIDE DEDICATED CIRCUIT FROM NEAREST SOURCE.
- E4) APPROXIMATE LOCATION OF EXISTING ELECTRICAL PANEL LOCATED ON FLOOR BELOW ROOF. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL CEILING REMOVAL AND REPLACEMENT TO ROUTE CONDUIT WITHIN BUILDING TO EACH LOCATION INDICATED BY KEY NOTE #E3 ABOVE AND SEAL ROOF OR WALL PENETRATION AS REQUIRED. COORDINATE ACCESS TO BUILDING AREAS REQUIRED TO PERFORM WORK A MINIMUM OF 2 WEEKS IN ADVANCE AND COMPLY WITH ALL VA INFECTION CONTROL REQUIREMENTS.



Revision#	Description	Date:

CONSULTANTS

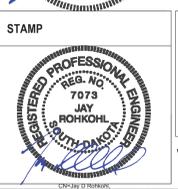
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Office of Construction and Facilities Management
 VA U.S. Department of Veterans Affairs

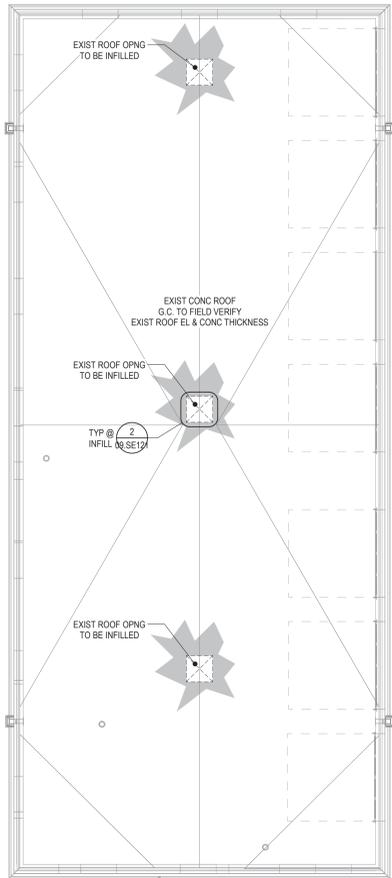
Drawing Title M/E/P ROOF PLAN
Approved:

Phase
CONSTRUCTION DOCUMENTS

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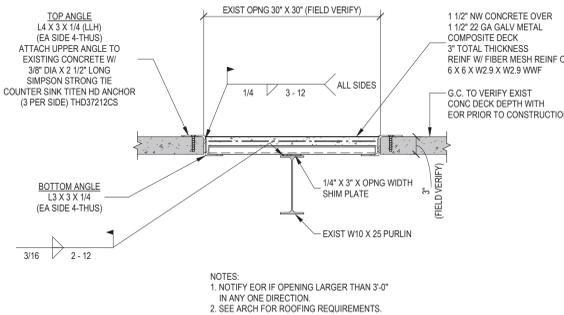
Project Title SIoux FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS	Project Number VA #VA #438-22-600 SGA #221926
Location SIoux FALLS, SOUTH DAKOTA	Building Number 07
Issue Date 09-15-2023	Checked JRG
	Drawn JG,TM,BZ

Drawing Number
07.MEP121

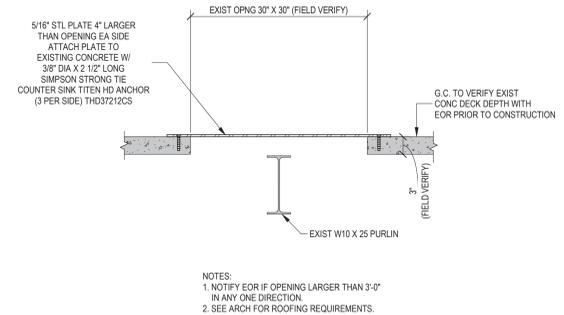


1 ROOF PLAN - 9
1/8" = 1'-0"
09.SE121

INFORMATION ON THIS PLAN REGARDING EXISTING STRUCTURE WAS TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS. ACTUAL FIELD CONDITION MAY VARY FROM WHAT IS SHOWN. ALL DIMENSIONS, ELEVATIONS AND CONDITIONS OF EXISTING STRUCTURE TO BE FIELD VERIFIED PRIOR TO FABRICATION.

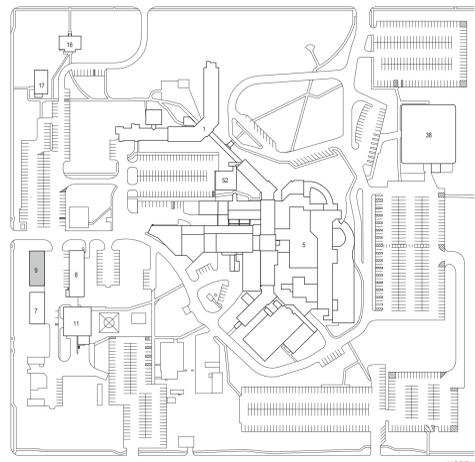


BUILDING 9 ROOF OPENING - OPTION A CONCRETE OVER METAL DECK INFILL IN EXISTING CONCRETE DECK



BUILDING 9 ROOF OPENING - OPTION B METAL PLATE INFILL OVER EXISTING CONCRETE DECK

2 SECTION/DETAIL
1/8" = 1'-0"
09.SE121



KEY PLAN
1\"/>

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Revision #	Description	Date:																	

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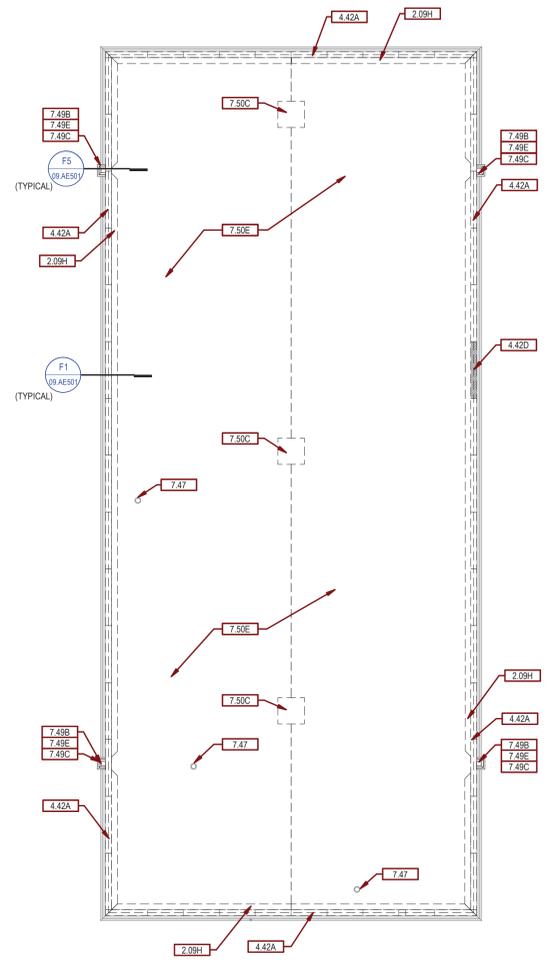
one eighth inch = one foot
 one quarter inch = one foot
 three eighths inch = one foot
 one half inch = one foot
 three quarters inch = one foot
 one inch = one foot
 one and one half inches = one foot
 two inches = one foot
 three inches = one foot

A
 B
 C
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 F

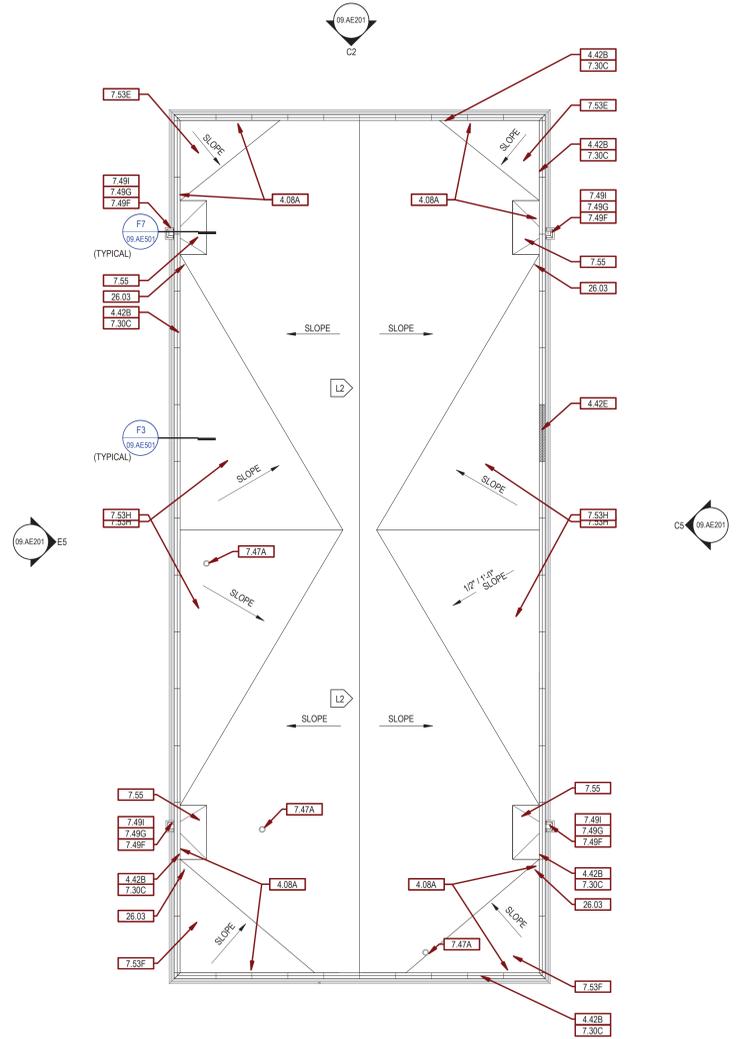
- GENERAL DEMOLITION PLAN NOTES:**
- A. PROTECT ALL EXISTING UTILITIES.
 - B. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AT THE PROJECT SITE.
 - C. PATCH REMAINING EXISTING CONSTRUCTION, AFFECTED BY DEMOLITION, TO MATCH EXISTING U.O.N.
 - D. EXISTING ITEMS TO REMAIN ARE SHOWN AS HALFTONE.
 - E. DEMO ITEMS ARE SHOWN AS DASHED.
 - F. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION RELEVANT TO DEMOLITION & PATCHING.

- GENERAL ROOF NOTES:**
- A. PROVIDE SEALANT AT ALL INTERIOR AND EXTERIOR JOINTS BETWEEN DIFFERENT MATERIALS, TRANSITIONS, AND ACCORDING TO INDUSTRY STANDARDS AND MANUFACTURERS SPECIFICATIONS.
 - B. ROOF SHALL MATCH EXISTING SLOPE U.O.N.

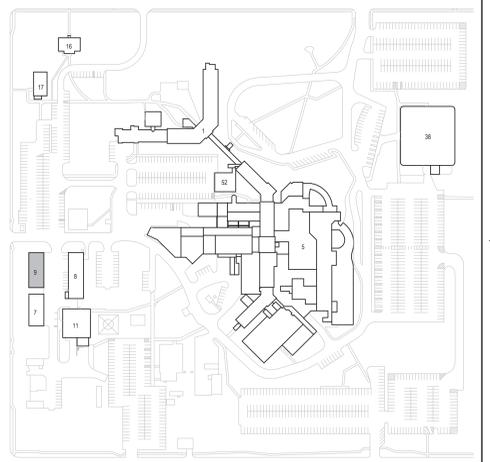
KEYNOTES_SGA	
Key Value	Keynote Text
2.09H	REMOVE CINDER CONC. CANT.
4.08A	REPOINT INSIDE F.O. BRK PARAPET. PROVIDE FLUSH MORTAR JOINTS FOR INSTALLATION OF MEMB FLASHING. ASSUME REPLACEMENT OF APPROX 10% OF BRK W/ NEW BRK COLOR DOES NOT NEED TO MATCH EXIST.
4.42A	REMOVE EXISTING LIMESTONE PARAPET CAPS AND FLASHING. SALVAGE CAPSTONES FOR REINSTALLATION. (TYP U.N.A.)
4.42B	CLEAN SALVAGED LIMESTONE PARAPET CAPS AND REINSTALL W/ NEW S.S. FLASHING. (TYP U.N.O.)
4.42D	REMOVE DAMAGED LIMESTONE PARAPET CAP AND FLASHING.
4.42E	NEW LIMESTONE PARAPET CAP TO MATCH EXISTING W/ NEW S.S. FLASHING.
7.30C	RAKE OUT LIMESTONE CAP HEAD JOINTS AND INSTALL BACKER ROD AND SLNT.
7.47	EXISTING VTR TO REMAIN.
7.47A	EXISTING VTR. PROVIDE PRE-FAB ROOFING MEMBRANE BOOT FLASHING.
7.49B	REMOVE COPPER CONDUCTOR HEAD.
7.49C	REMOVE COPPER D.S.
7.49E	REMOVE COPPER THRU-WALL SCUPPER.
7.49F	NEW COPPER THRU-WALL SCUPPER (20 OZ) IN EXISTING OPENING W/ 2 3/4" FACE FLANGE TO MATCH EXISTING.
7.49G	NEW PRE-FAB COPPER CONDUCTOR HEAD (CHURCHILL STYLE 17" X 9" X 20 1/2" - 20 OZ).
7.49I	NEW 3" X 4" RIBBED COPPER D.S. (20 OZ) - COPPER WALL BRACKETS @ 9'-0" O.C. MAX. TIE INTO EXISTING STORM PIPING.
7.50C	REMOVE EXISTING CURB. REFERENCE STRUCTURAL FOR DECK INFILL.
7.50E	REMOVE BALLASTED MEMB ROOFING, MEMB FLASHING, AND RIGID INSUL DN TO DECK.
7.53E	8'-0" WIDE TAPERED ISO RIGID INSUL CRICKETS - 1/2" - 1/2".
7.53F	10'-0" WIDE TAPERED ISO RIGID INSUL CRICKETS - 1/2" - 1/2".
7.53H	16'-0" WIDE TAPERED ISO RIGID INSUL CRICKETS - 1/2" - 1/2".
7.55	TAPER INSUL AT 1:6 SLOPE ON TO SCUPPER OPENING.
26.03	NEW CONDUIT FOR ELEC HEAT CABLE - REF ELEC. PROVIDE PRE-FAB ROOFING MEMBRANE BOOT FLASHING.



F2 ROOF PLAN - DEMOLITION
1/8" = 1'-0"
NORTH



F6 ROOF PLAN
1/8" = 1'-0"
NORTH



CAMPUS BUILDING KEY PLAN
NORTH

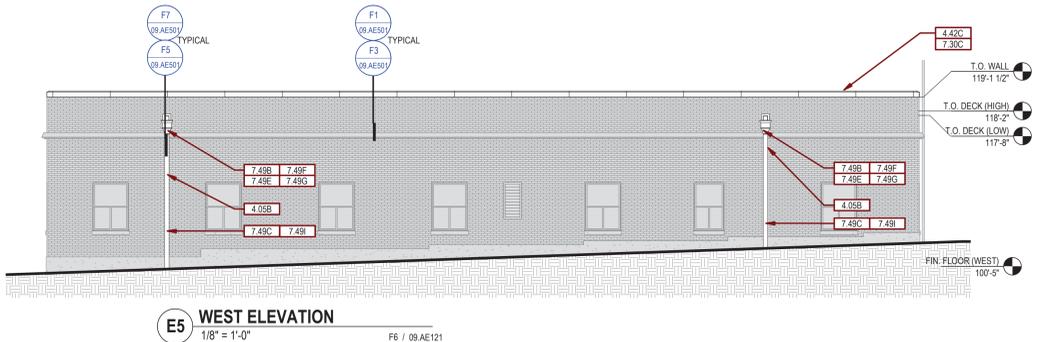
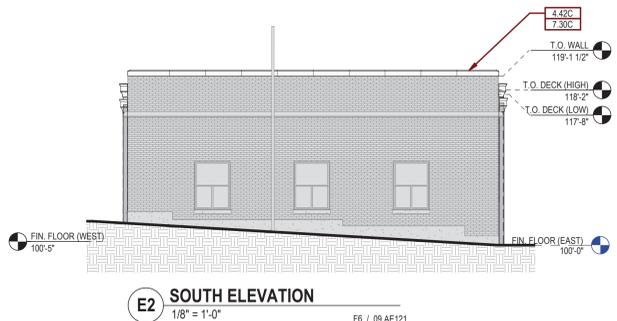
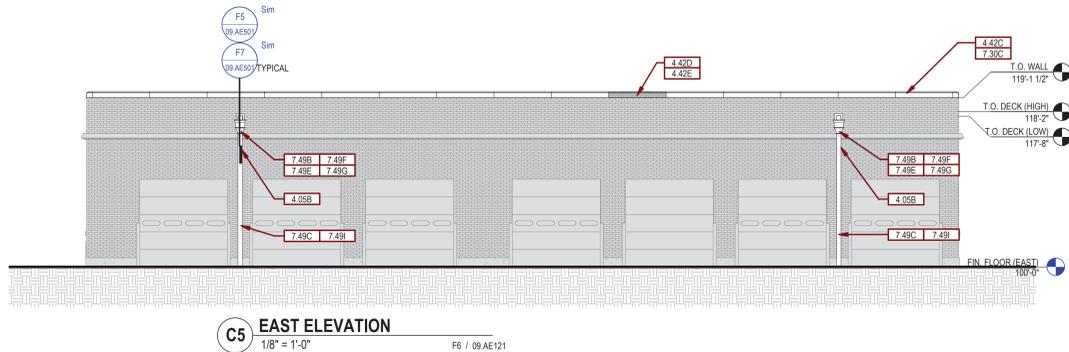
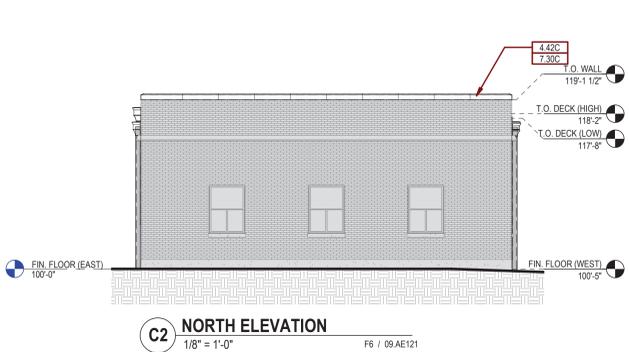
CONSULTANTS CIVIL: EHRHART GRIFFIN & ASSOCIATES 601 N Minnesota Ave Sioux Falls, SD 57104 Phone: 605-339-7215		STRUCTURAL: ERA ERICKSEN ROED & ASSOCIATES Ericksen Roed Associates 2550 University Ave W Suite 423-S St. Paul, MN 55402 Phone: 651-251-7570		MEP: DUNHAM Dunham Associates, Inc. 50 South Sixth St Suite 1100 Minneapolis, MN 55402 Phone: 612-465-7550		ARCHITECT OF RECORD STONE GROUP ARCHITECTS Stone Group Architects, Inc. 600 East 7th Street Sioux Falls, SD 57103 Phone: 605-271-1144		STAMP 		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs		Drawing Title: ARCHITECTURAL - ROOF PLAN Approved: _____		Phase: CONSTRUCTION DOCUMENTS		Project Title: SIoux FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS		Project Number: VA #438-22-600 SGA #221926 Building Number: 09 Drawing Number: 09. AE121	
Revision# Description Date:																			

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

GENERAL ELEVATION NOTES:

- A. ANY DISCREPANCIES OR CONFLICTS FOUND IN THE VARIOUS PARTS OF THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE OWNER BEFORE PROCEEDING WITH THE WORK.
- B. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS.
- C. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AT THE PROJECT SITE.
- D. ALL MATERIALS & EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.

KEYNOTES_SGA	
Key Value	Keynote Text
4.05B	ENLARGE NOTCH IN LIMESTONE TRIM AS REQD TO ACCOMMODATE NEW/LOWERED CONDUCTOR HEAD. FINISH CUT SURFACES TO MATCH EXISTING.
4.42C	REMOVE EXISTING LIMESTONE PARAPET CAPS AND FLASHING. SALVAGE CAPSTONES FOR REINSTALLATION. CLEAN SALVAGED LIMESTONE PARAPET CAPS AND REINSTALL W/ NEW S.S. FLASHING. (TYP. I.N.C.)
4.42D	REMOVE DAMAGED LIMESTONE PARAPET CAP AND FLASHING.
4.42E	NEW LIMESTONE PARAPET CAP TO MATCH EXISTING W/ NEW S.S. FLASHING.
7.30C	RAKE OUT LIMESTONE CAP HEAD JOINTS AND INSTALL BACKER ROD AND SLNT.
7.49B	REMOVE COPPER CONDUCTOR HEAD.
7.49C	REMOVE COPPER D.S.
7.49E	REMOVE COPPER THRU-WALL SCUPPER.
7.49F	NEW COPPER THRU-WALL SCUPPER (20 OZ) IN EXISTING OPENING W/ 2 3/4" FACE FLANGE TO MATCH EXISTING.
7.49G	NEW PRE-FAB COPPER CONDUCTOR HEAD (CHURCHILL STYLE 1" X 8" X 20 1/2" - 20 OZ).
7.49I	NEW 3" X 4" RIBBED COPPER D.S. (20 OZ) - COPPER WALL BRACKETS @ 8'-0" O.C. MAX. TIE INTO EXISTING STORM PIPING.



Revision#	Description	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ARCHITECTURAL - ELEVATIONS

Approved: _____

Phase
CONSTRUCTION DOCUMENTS

Project Title
SIoux FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS

Location
SIoux FALLS, SOUTH DAKOTA

Issue Date
09-15-2023

Checked
BH

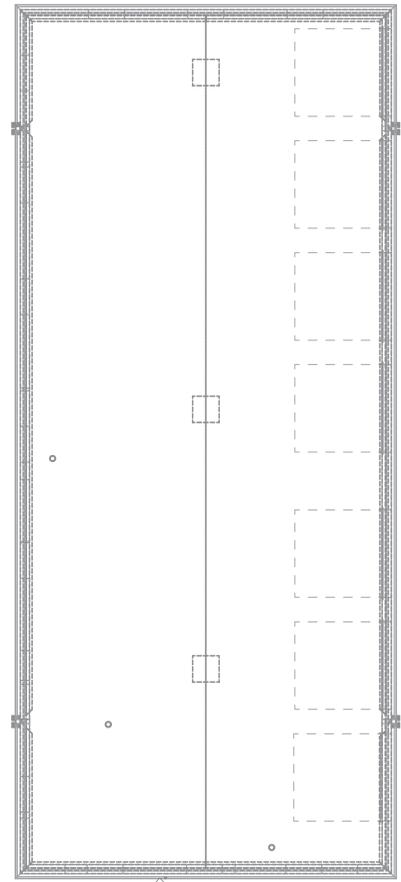
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MA

Project Number
VA #438-22-600 SGA #221926

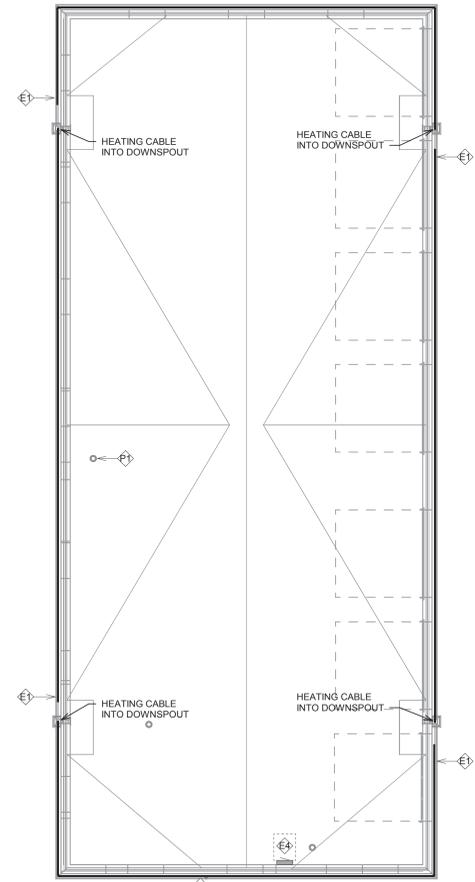
Building Number
09

Drawing Number
09. AE201

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



2 DEMOLITION MECHANICAL, ELECTRICAL, PLUMBING ROOF PLAN
 1/8" = 1'-0"



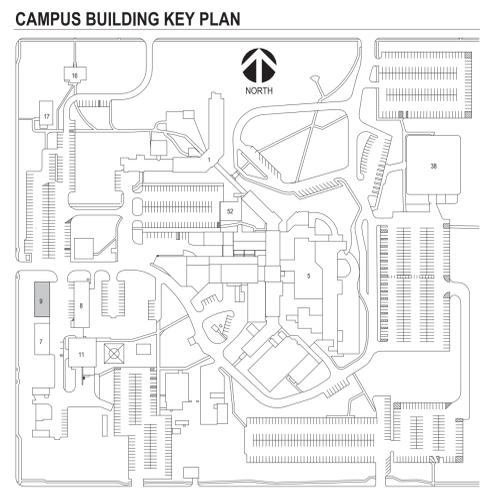
1 MECHANICAL, ELECTRICAL, PLUMBING ROOF PLAN
 1/8" = 1'-0"

- GENERAL NOTES:**
- MECHANICAL CONTRACTOR SHALL REFER TO SPECIFICATION MANUAL EDITED FOR THIS PROJECT ALONG WITH ANY APPLICABLE STANDARDS. ALL REQUIREMENTS OF THOSE MANUALS SHALL BE MAINTAINED IN ADDITION TO ALL NOTES AND DESCRIPTIONS INDICATED WITHIN THESE DRAWINGS. ANY CONFLICTS BETWEEN THOSE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION.
 - WHERE APPLICABLE (FOR ANY INTERIOR STORM DRAIN PIPING SHOWN INSTALLED WITHIN BUILDINGS 9 AND 38), COORDINATE ALL NEW PIPE ROUTING WITH ALL OTHER EXISTING UTILITIES TO ENSURE ADEQUATE CLEARANCES FOR ELECTRICAL CONDUIT, HVAC DUCTWORK & PIPING, STRUCTURAL SUPPORTS, ETC. PROVIDE ALL OFFSETS & TRANSITIONS AS REQUIRED FOR A CLEAN INSTALLATION.
 - NOTE THAT ALL INTERIOR STORM DRAIN, AND OVERFLOW STORM DRAIN, PIPING MUST BE FULLY INSULATED ON BOTH HORIZONTAL AND VERTICAL PIPE SECTIONS. REFER TO SPECIFICATION FOR LABELING OF PIPING AND IDENTIFICATION OF CLEANOUT ACCESS POINTS.
 - THE EXACT LOCATION OF EXISTING ROOFTOP EQUIPMENT ROUGH-INS SHALL BE VERIFIED PRIOR TO REMOVAL AND REPLACEMENT. CONTRACTOR TO VERIFY SOURCE OF ALL SERVICES FOR ISOLATION.
 - SUPPORT ALL PIPING DIRECTLY TO STRUCTURE. DO NOT SUPPORT ANY PIPING FROM DUCTWORK, CONDUIT OR OTHER PIPING ENCOUNTERED.
 - WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED OR DISTURBED DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.
 - COORDINATE ALL NEW ROOF DRAIN INSTALLATIONS. CONFIRM REQUIRED SIZE OF PENETRATION THROUGH STRUCTURAL ROOF TO BE DRILLED OR CUT BY THE CONTRACTOR. INFILL AROUND DRAIN BODY AND INCORPORATE INTO ROOFING MEMBRANE OR SYSTEM AS REQUIRED FOR WATER TIGHT SEAL.
 - THE PLUMBING CONTRACTOR SHALL PROVIDE ALL PIPING, FITTINGS, VALVES & ACCESSORIES AS REQUIRED FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
 - CONTRACTOR TO PROVIDE CRANE RIGGING/PICK PLANS AT LEAST FOUR(4) WEEKS PRIOR TO SCHEDULED DATE. SUBMIT PLANS TO VA COR TO DISTRIBUTE TO APPROPRIATE SAFETY OFFICERS FOR DISRUPTION PLANNING. ALL DATES ARE TENTATIVE UNTIL APPROVED.
 - WHERE APPLICABLE ON INTERIOR WORK, PROVIDE CLEANOUTS AT BASE OF EVERY STORM DRAIN LEADER PRIOR TO PENETRATING SLAB ON GRADE. REFER TO SPECIFICATIONS THAT ALL PIPING, ABOVE AND BELOW GRADE, MUST BE FABRICATED OF CAST IRON.
 - CONTRACTOR SHALL MAINTAIN ACCURATE RECORD DRAWINGS SHOWING ALL DISCREPANCIES WITH ANY EXISTING PIPING INDICATED OR REVISIONS TO THE NEW PLUMBING OR FIRE PROTECTION LAYOUTS. ALL CHANGES WILL BE UPDATED WITHIN FINAL RECORD DRAWINGS.

- KEY NOTES: PLUMBING NEW WORK**
- EXTEND EXISTING PLUMBING VENT AS REQUIRED TO MAINTAIN A MINIMUM OF 8" FLASHING ABOVE NEW ROOF LEVEL.

- KEY NOTES: MECHANICAL NEW WORK**
- NO MECHANICAL WORK IS ANTICIPATED ON THIS DRAWING.

- KEY NOTES: ELECTRICAL NEW WORK**
- PROVIDE SELF-REGULATING HEATING CABLE WITH BRAID AND TEFLON STABILIZED POLYOLEFIN JACKET, CHROMALOX MODEL, SRF-IRGT OR EQUAL, WITHIN ALL HORIZONTAL GUTTERS AND VERTICAL DOWNSPOUTS. START CABLING FROM POINT INDICATED THROUGH HORIZONTAL GUTTER, AND INCLUDE DOWNSPOUT HANGERS TO SUPPORT CABLE DROPS TO TERMINATE JUST ABOVE GRADE. CONTRACTOR TO VERIFY LENGTHS OF CABLE REQUIRED AND PROVIDE ALL POWER CONNECTION KITS FOR FINAL CONNECTION BY ELECTRICAL CONTRACTOR. PROVIDE GFCI BREAKER AS REQUIRED BY NEC AND SIZED PER MANUFACTURER MAXIMUM CIRCUIT LENGTHS REQUIREMENTS. PROVIDE DEDICATED CIRCUIT FROM NEAREST SOURCE.
 - REMOVE ANTENNA BRACKET FOR RE-ROOFING PROCESS AND TEMPORARILY SUPPORT ANTENNAE AS REQUIRED.
 - REINSTALL ANTENNA BRACKET AFTER RE-ROOFING PROCESS.
 - APPROXIMATE LOCATION OF EXISTING ELECTRICAL PANEL LOCATED ON FLOOR BELOW ROOF. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL CEILING REMOVAL AND REPLACEMENT TO ROUTE CONDUIT WITHIN BUILDING TO EACH LOCATION INDICATED BY KEY NOTE #E1 ABOVE AND SEAL ROOF OR WALL PENETRATION AS REQUIRED. COORDINATE ACCESS TO BUILDING AREAS REQUIRED TO PERFORM WORK A MINIMUM OF 2 WEEKS IN ADVANCE AND COMPLY WITH ALL VA INFECTION CONTROL REQUIREMENTS.



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

Drawing Title M/E/P ROOF PLAN
Approved:

Phase
CONSTRUCTION DOCUMENTS

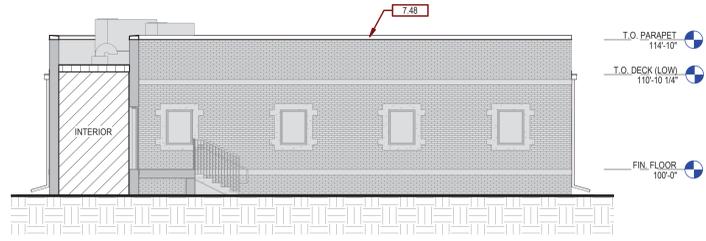
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Project Title SIoux FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS	Project Number VA #VA #438-22-600 SGA #221926
Location SIoux FALLS, SOUTH DAKOTA	Building Number 09
Issue Date 09-15-2023	Checked JRG
Drawn JG, TM, BZ	Drawing Number 09.MEP121

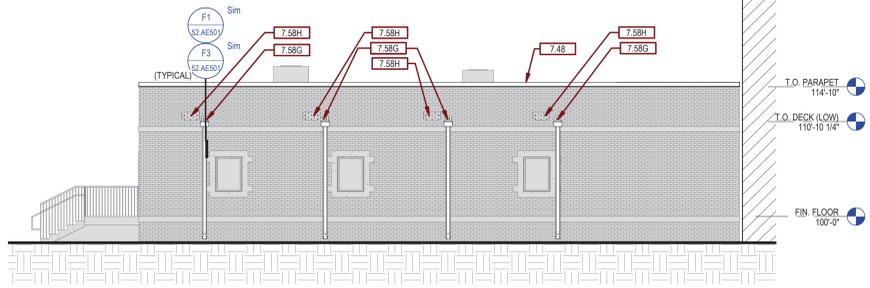
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- B. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS.
- C. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AT THE PROJECT SITE.
- D. ALL MATERIALS & EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.

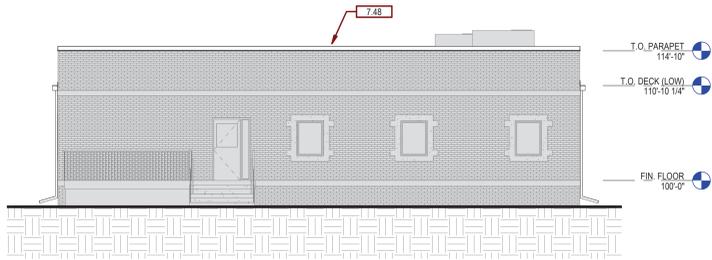
KEYNOTES_SGA	
Key Value	Keynote Text
7.48	PREFINISHED MTL COPING AND KEEPER STRIP.
7.58G	PREFINISHED MTL THRU WALL SCUPPER, CONDUCTOR AND OPEN FACE DS
7.58H	REMOVE EXISTING OVERFLOW SCUPPER. PATCH OPENING W/ 5/8" O.S.B. AND BRK TO MATCH EXISTING - TOOTH-IN NEW BRK.



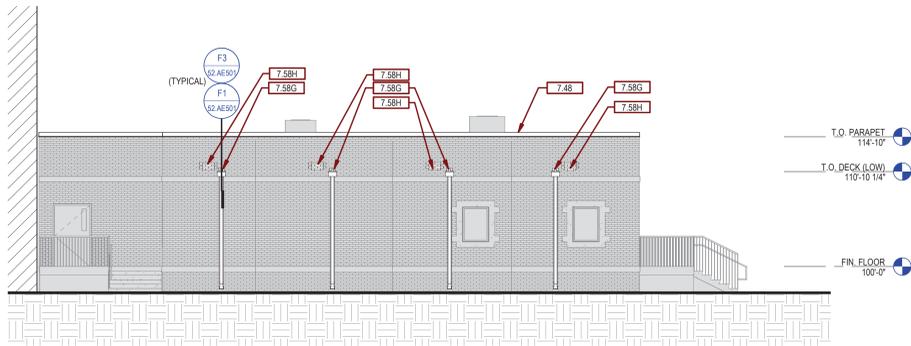
B2 NORTH ELEVATION
1/8" = 1'-0" D6 / S2.AE121



B5 EAST ELEVATION
1/8" = 1'-0" D6 / S2.AE121



D2 SOUTH ELEVATION
1/8" = 1'-0" D6 / S2.AE121



D5 WEST ELEVATION
1/8" = 1'-0" D6 / S2.AE121

Revision#	Description	Date:

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

Drawing Title
ARCHITECTURAL - ELEVATIONS

Approved:

Phase
CONSTRUCTION DOCUMENTS

Project Title
SIoux FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS

Location
SIoux FALLS, SOUTH DAKOTA

Issue Date
09-15-2023

Checked
BH

Drawn
MA

Project Number
VA #438-22-600 SGA #221926

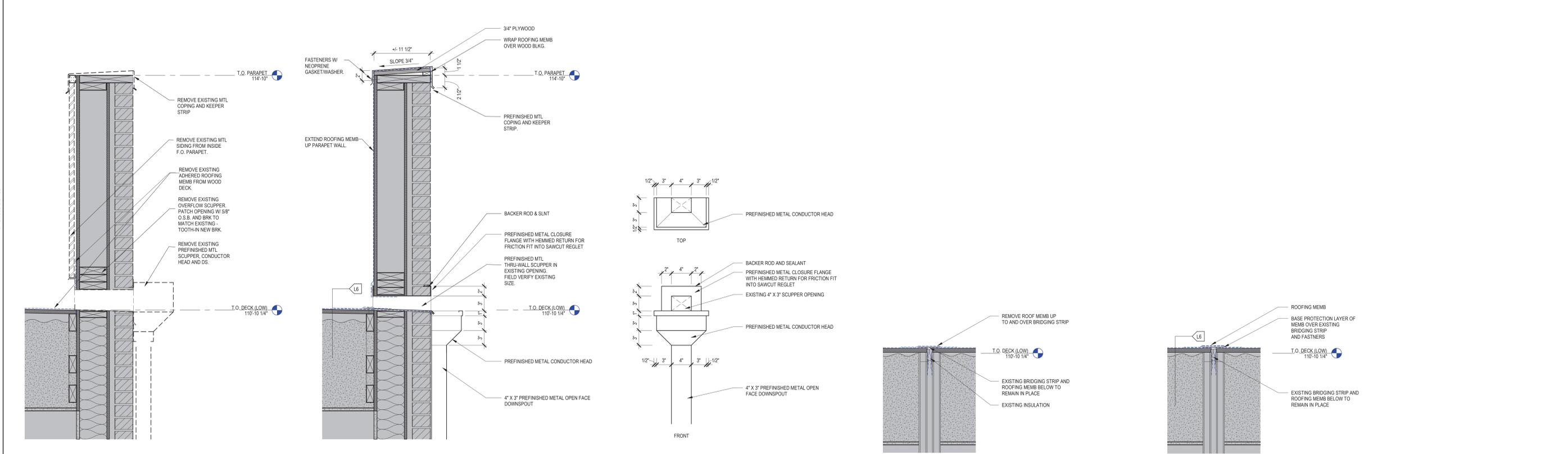
Building Number
52

Drawing Number
52. AE201



C1 PARAPET / WALL BASE FLASHING DETAIL - DEMOLITION
 1 1/2" = 1'-0" D3 / 52.AE121

C3 PARAPET / WALL BASE FLASHING DETAIL - NEW
 1 1/2" = 1'-0" D6 / 52.AE121



F1 PARAPET / SCUPPER / CONDUCTOR HEAD DETAIL - DEMOLITION
 1 1/2" = 1'-0" D3 / 52.AE121

F3 PARAPET / SCUPPER / CONDUCTOR HEAD DETAIL - NEW
 1 1/2" = 1'-0" D6 / 52.AE121

D6 CONDUCTOR HEAD PLAN & ELEV.
 D6 / 52.AE121

F6 MODULAR BUILDING CONNECTION PLATE DETAIL - DEMOLITION
 1 1/2" = 1'-0" D3 / 52.AE121

F7 MODULAR BUILDING CONNECTION PLATE DETAIL - NEW
 1 1/2" = 1'-0" D6 / 52.AE121

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REGISTERED ARCHITECT
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 TERRY J. MOYER
 SOUTH DAKOTA
 9-15-23

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

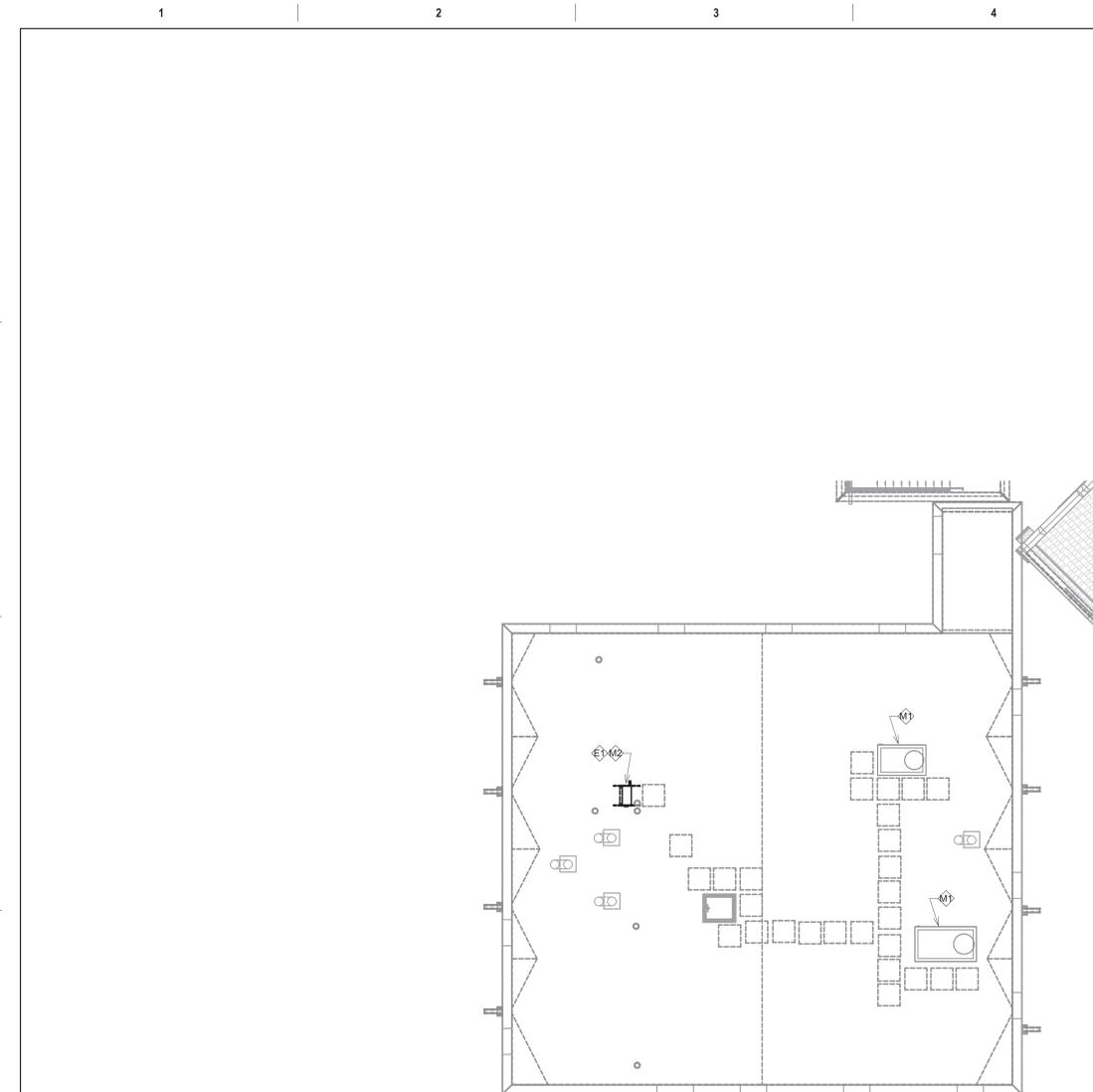
Drawing Title: ARCHITECTURAL - DETAILS
 Approved: _____

Phase: CONSTRUCTION DOCUMENTS

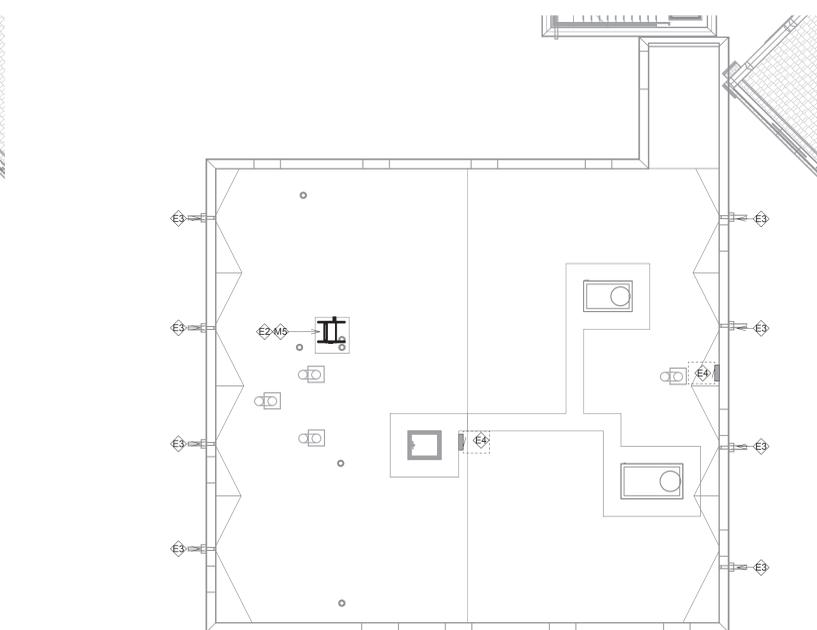
Project Title: SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS
 Location: SIOUX FALLS, SOUTH DAKOTA
 Issue Date: 09-15-2023
 Checked: BH
 Drawn: MA

Project Number: VA #438-22-600 SGA #221926
 Building Number: 52
 Drawing Number: 52. AE501

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



1 DEMOLITION MECHANICAL, ELECTRICAL, PLUMBING ROOF PLAN
1/8" = 1'-0"



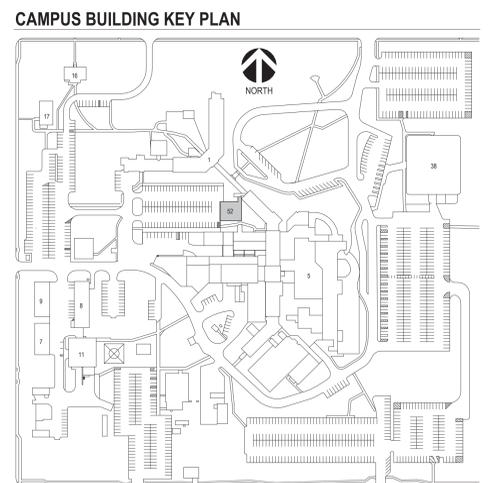
2 MECHANICAL, ELECTRICAL, PLUMBING ROOF PLAN
1/8" = 1'-0"

- GENERAL NOTES:**
- A. MECHANICAL CONTRACTOR SHALL REFER TO SPECIFICATION MANUAL EDITED FOR THIS PROJECT ALONG WITH ANY APPLICABLE STANDARDS. ALL REQUIREMENTS OF THOSE MANUALS SHALL BE MAINTAINED IN ADDITION TO ALL NOTES AND DESCRIPTIONS INDICATED WITHIN THESE DRAWINGS. ANY CONFLICTS BETWEEN THOSE DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR INTERPRETATION.
 - B. WHERE APPLICABLE (FOR ANY INTERIOR STORM DRAIN PIPING SHOWN INSTALLED WITHIN BUILDINGS 5 AND 8). COORDINATE ALL NEW PIPE ROUTING WITH ALL OTHER EXISTING UTILITIES TO ENSURE ADEQUATE CLEARANCES FOR ELECTRICAL CONDUIT, HVAC DUCTWORK & PIPING, STRUCTURAL SUPPORTS, ETC. PROVIDE ALL OFFSETS & TRANSITIONS AS REQUIRED FOR A CLEAN INSTALLATION.
 - C. NOTE THAT ALL INTERIOR STORM DRAIN, AND OVERFLOW STORM DRAIN, PIPING MUST BE FULLY INSULATED ON BOTH HORIZONTAL AND VERTICAL PIPE SECTIONS. REFER TO SPECIFICATION FOR LABELING OF PIPING AND IDENTIFICATION OF CLEANOUT ACCESS POINTS.
 - D. THE EXACT LOCATION OF EXISTING ROOFTOP EQUIPMENT ROUGH-INS SHALL BE VERIFIED PRIOR TO REMOVAL AND REPLACEMENT. CONTRACTOR TO VERIFY SOURCE OF ALL SERVICES FOR ISOLATION.
 - E. SUPPORT ALL PIPING DIRECTLY TO STRUCTURE. DO NOT SUPPORT ANY PIPING FROM DUCTWORK, CONDUIT OR OTHER PIPING ENCOUNTERED.
 - F. WHERE MECHANICAL SYSTEMS TO REMAIN ARE DAMAGED OR DISTURBED DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE TO REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL QUALITY AND FUNCTIONALITY.
 - G. COORDINATE ALL NEW ROOF DRAIN INSTALLATIONS. CONFIRM REQUIRED SIZE OF PENETRATION THROUGH STRUCTURAL ROOF TO BE DRILLED OR CUT BY THE CONTRACTOR. INFILL AROUND DRAIN BODY AND INCORPORATE INTO ROOFING MEMBRANE OR SYSTEM AS REQUIRED FOR WATER TIGHT SEAL.
 - H. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL PIPING, FITTINGS, VALVES & ACCESSORIES AS REQUIRED FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
 - I. CONTRACTOR TO PROVIDE CRANE RIGGING/PICK PLANS AT LEAST FOUR(4) WEEKS PRIOR TO SCHEDULED DATE. SUBMIT PLANS TO VA COR TO DISTRIBUTE TO APPROPRIATE SAFETY OFFICERS FOR DISRUPTION PLANNING. ALL DATES ARE TENTATIVE UNTIL APPROVED.
 - J. WHERE APPLICABLE ON INTERIOR WORK. PROVIDE CLEANOUTS AT BASE OF EVERY STORM DRAIN LEADER PRIOR TO PENETRATING SLAB ON GRADE. REFER TO SPECIFICATIONS THAT ALL PIPING, ABOVE AND BELOW GRADE, MUST BE FABRICATED OF CAST IRON.
 - K. CONTRACTOR SHALL MAINTAIN ACCURATE RECORD DRAWINGS SHOWING ALL DISCREPANCIES WITH ANY EXISTING PIPING INDICATED OR REVISIONS TO THE NEW PLUMBING OR FIRE PROTECTION LAYOUTS. ALL CHANGES WILL BE UPDATED WITHIN FINAL RECORD DRAWINGS.

- KEY NOTES: PLUMBING NEW WORK**
- NO PLUMBING WORK IS ANTICIPATE FOR THIS DRAWING.

- KEY NOTES: MECHANICAL NEW WORK**
- M1) EXISTING ROOFTOP UNIT WILL BE ALLOWED TO REMAIN WHILE RE-ROOFING AROUND EXISTING CURB.
 - M2) TEMPORARILY REMOVE EXISTING CONDENSING UNIT. RECLAIMING REFRIGERANT FROM PIPING TO ALLOW DISCONNECTION. COORDINATE OUTAGE WITH VA COR TO DETERMINE IMPACT AND BEST TIMING TO SCHEDULE REMOVAL/REPLACEMENT.
 - M3) NOT USED.
 - M4) NOT USED.
 - M5) REINSTALL REMOVED CONDENSING UNIT AND REFILL WITH PREVIOUSLY RECLAIMED REFRIGERANT (PLUS ADDITIONAL AS REQUIRED TO ACHIEVE MANUFACTURER FILL PRESSURE). RECONNECT CONTROL WIRING AND PROVIDE BASIC PERFORMANCE TESTING ON START-UP.

- KEY NOTES: ELECTRICAL NEW WORK**
- E1) DISCONNECT ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT. COORDINATE WITH VA COR AND MECHANICAL CONTRACTOR IF TEMPORARY POWER IS REQUIRED.
 - E2) RECONNECT ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT. MODIFY EXISTING FEEDER AS REQUIRED.
 - E3) PROVIDE SELF-REGULATING HEATING CABLE WITH BRAID AND TEFLON STABILIZED POLYOLEFIN JACKET, CHROMALOX MODEL SRF-IRDT OR EQUAL, WITH VERTICAL DOWNSPOUTS. START CABLING FROM POINT INDICATED AND INCLUDE DOWNSPOUT HANGERS TO SUPPORT CABLE DROPS TO TERMINATE JUST ABOVE GRADE. CONTRACTOR TO VERIFY LENGTHS OF CABLE REQUIRED AND PROVIDE ALL POWER CONNECTION KITS FOR FINAL CONNECTION BY ELECTRICAL CONTRACTOR. PROVIDE GFCI BREAKERS AS REQUIRED BY NEC AND SIZED PER MANUFACTURER MAXIMUM CIRCUIT LENGTHS REQUIREMENTS. PROVIDE DEDICATED CIRCUIT FROM NEAREST SOURCE. PENETRATE / SEAL CONDUIT THROUGH ROOF, AND SECURE JUNCTION BOX TO BACKSIDE OF PARAPET WALL FOR FINAL CONNECTION TO HEATING CABLE.
 - E4) APPROXIMATE LOCATION OF EXISTING ELECTRICAL PANEL LOCATED ON FLOOR BELOW ROOF. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL CEILING REMOVAL AND REPLACEMENT TO ROUTE CONDUIT WITHIN BUILDING TO EACH LOCATION INDICATED BY KEY NOTE #E1 ABOVE AND SEAL ROOF OR WALL PENETRATION AS REQUIRED. COORDINATE ACCESS TO BUILDING AREAS REQUIRED TO PERFORM WORK A MINIMUM OF 2 WEEKS IN ADVANCE AND COMPLY WITH ALL VA INFECTION CONTROL REQUIREMENTS.



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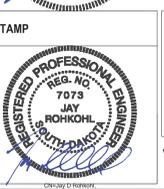
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Drawing Title
M/E/P ROOF PLAN

Approved:

Phase
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Project Title
SIOUX FALLS VA HEALTH CARE SYSTEM CAMPUS IMPROVE CAMPUS BUILDING EXTERIORS

Project Number
VA #VA #438-22-600
SGA #221926
Building Number
52

Location
SIOUX FALLS, SOUTH DAKOTA

Issue Date
09-15-2023

Checked
JRG

Drawn
JG, TM, BZ

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