

July 28, 2026

Re: Snow Removal Equipment Building
Brookings Regional Airport
Brookings, South Dakota
AIP #3-46-0005-041/042-2025
Helms #A-10258

Bid Opening: **July 30, 2026**

1:30 pm Local Time

ADDENDUM NUMBER 2

The following modifications are made to the plans and specifications for the Snow Removal Equipment Building Project, Brookings Regional Airport:

MECHANICAL/ELECTRICAL ADDENDUM

- 1. See the attached Mechanical/Electrical Addendum.**

**ALL OTHER ITEMS OF THE PLANS AND SPECIFICATIONS REMAIN
UNCHANGED**



BY: _____

PROJECT ENGINEER – HELMS & ASSOCIATES

Acknowledge receipt of the Addendum by inserting its number on the Bid Form. Failure to do so may subject bidder to disqualification. This Addendum forms a part of the Contract Documents. It modifies them as above.

Addendum No. ME-2
To Mechanical Plans and Specifications:
Brookings Airport New SRE Building
Brookings, South Dakota

Addendum Dated: July 28, 2026

Original Plans & Specifications Dated: July 10, 2026

SCOPE OF THIS ADDENDUM: The following becomes part of the original plans and specifications, taking precedence over the items that may conflict. The bidder shall note receipt and make acknowledgement of the addendum on the bid form, incorporating its provision in the bid.

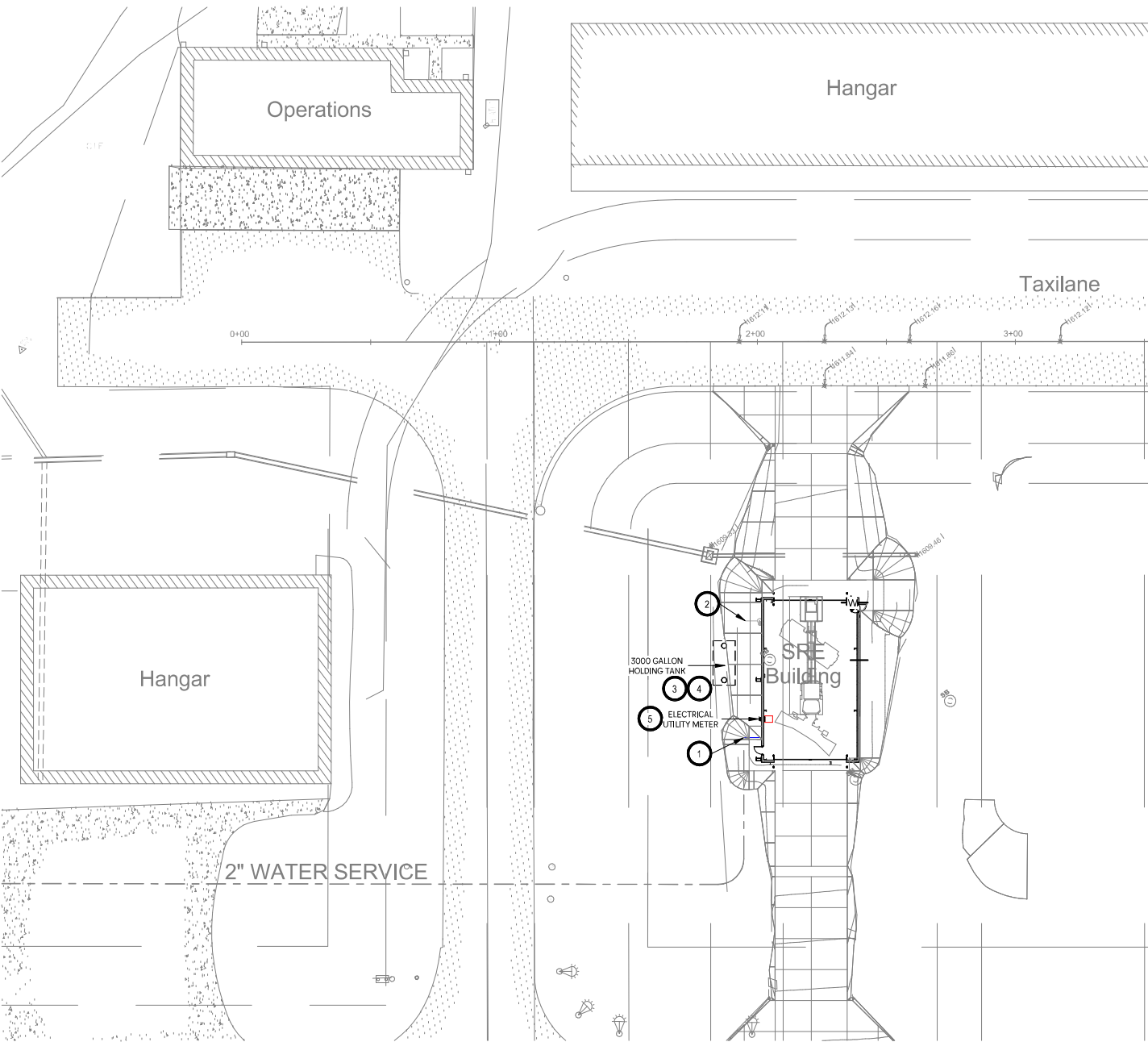
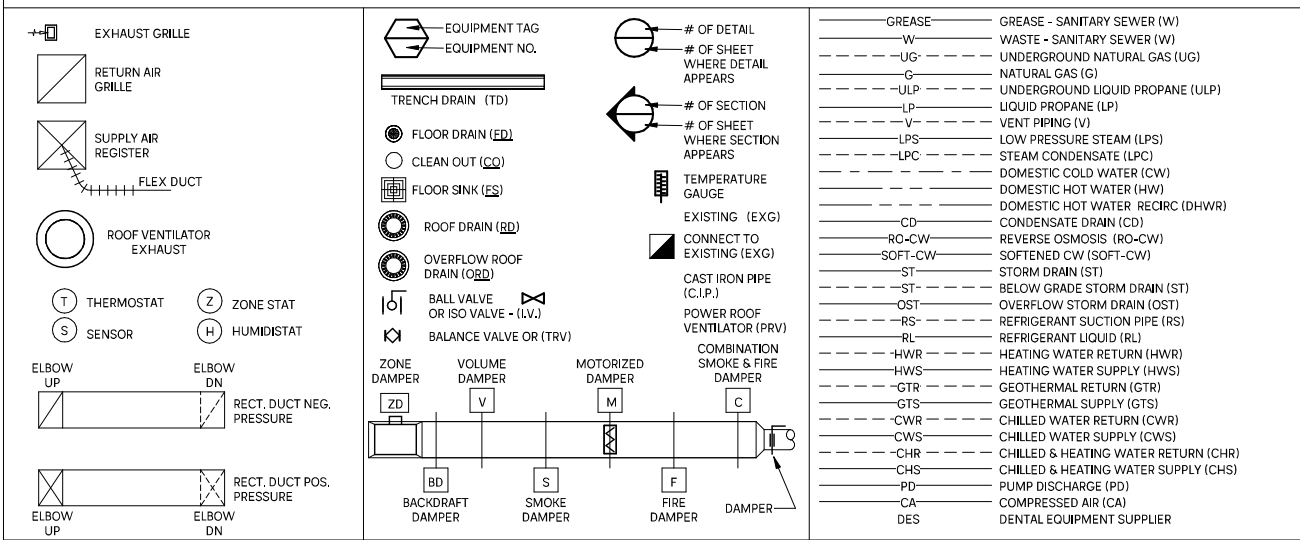
PLAN AND SPECIFICATION CHANGES AND CLARIFICATIONS:

1. Sheet M1 – Revised keynote 1 to clarify base bid/alternate scope of water service.
2. Sheet M2
 - a. Revised keynote 2 to clarify base bid/alternate scope of water service.
 - b. Added Indirect Condensate Piping Diagram and associated waste/vent piping for boiler condensate.
 - c. Revised Water Header Piping Diagram to clarify Base Bid/Alternate water service work

Element Consulting Engineers
(605) 225-4344

Attachments: Sheet M1/E1
Sheet M2

MECHANICAL LEGEND



ELECTRICAL/MECHANICAL SITE PLAN
1" = 30'-0" @ 22 X 34
1" = 60'-0" @ 11 X 17

GENERAL NOTES:

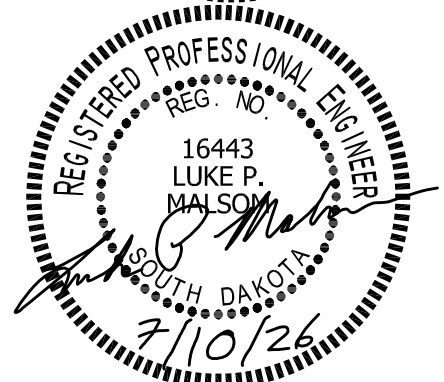
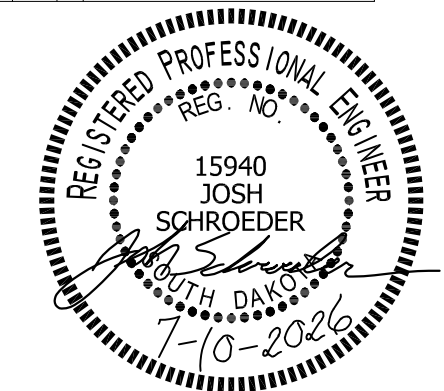
- REFER TO FRONT END BIDDING DOCUMENTS FOR DESCRIPTION OF ALTERNATES.
- EACH TRADE SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING AS NECESSARY TO ALLOW FOR COMPLETION OF THEIR WORK. REFER TO ARCHITECTURAL PLANS FOR SELECTIVE DEMOLITION BY OTHERS.
- ALL CONTRACTORS SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- ALL ROOFING WORK BY ROOFING CONTRACTOR. ALL TRADES TO COORDINATE.
- GLYCOL SOLUTION:
A. NEW HEATING SYSTEM:
a. NEW HEATING SYSTEM SOLUTION SHALL BE 30% DOWFROST HD PROPYLENE GLYCOL.
b. CALCULATED PROPOSED HEATING SYSTEM VOLUME: 75 GALLONS
c. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING AND FLUSHING THE NEW HEATING SYSTEM PIPING PRIOR TO PUMPING IN NEW HEATING SOLUTION AND SYSTEM STARTUP.
d. AFTER PROPOSED WORK IS COMPLETE, THE PLUMBING/HYDRONICS CONTRACTOR IS TO PROVIDE A COMPLETE ANALYSIS/RECOMMENDATIONS TO ELEMENT CONSULTING ENGINEERS & OWNER. IF SOLUTION ANALYSIS INDICATES SOLUTION IS NOT SATISFACTORY, THIS CONTRACTOR TO MAKE ADJUSTMENTS AS RECOMMENDED BY GLYCOL SUPPLIER & RETEST UNTIL ANALYSIS RESULTS ARE SATISFACTORY.
- DURING THE SHOP DRAWING PROCESS, ALL M&E CONTRACTORS TO BE RESPONSIBLE FOR MARKING UP ALL OPENINGS IN THE CONCRETE SLAB, PRECAST WALL, CORE FLOOR, OR STRUCTURAL STEEL FRAMING, AND STRUCTURAL STEEL ROOF JOIST SYSTEMS REQUIRED FOR THE INSTALLATION OF THEIR RESPECTIVE SYSTEMS IN NEW AND EXISTING STRUCTURAL SYSTEMS.
- WHERE PEX PIPING IS USED, PIPING SHALL BE UPONOR PEX-A POTABLE WATER PIPING WITH UPONOR F1960 EXPANDABLE FITTINGS, NO CRIMP FITTINGS TO BE ACCEPTED, PROVIDED THE CONTRACTOR IS TRAINED AND FOLLOWING ALL MANUFACTURER'S RECOMMENDATIONS TO FULFILL ALL AVAILABLE UPONOR 25 YEAR WARRANTY COVERAGE.
- CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS, NOTIFY THE A/E IMMEDIATELY OF ANY DISCREPANCIES.
- ALL TRENCH BACKFILL SHALL BE 95% STANDARD COMPACTION. WHERE EXCAVATION TAKES PLACE, PROVIDE COMPACTION AND RESTORE TO PREVIOUS SURFACING OR AS REQUIRED FOR NEW CONSTRUCTION. SEE SPECIFICATIONS FOR TESTING REQUIREMENTS.
- COORDINATE NEW SERVICES WITH LOCAL UTILITIES.
- CLARIFICATION TO THE BIDDING - ANY NATURAL GAS OR ELECTRIC UTILITY COSTS FROM NORTHWESTERN ENERGY WILL BE PAID DIRECTLY BY THE OWNER AND SHALL NOT BE INCLUDED AS PART OF THE CONTRACT.
- CIVIL UTILITIES ARE NOT SHOWN. REFER TO CIVIL ENGINEERS PLANS FOR INFORMATION.

HVAC EQUIPMENT COORDINATION & MOTOR SCHEDULE

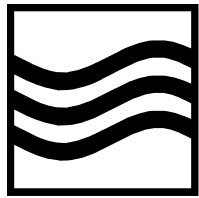
EQUIPMENT NUMBER	USE	LOCATION	FIRE ALARM INTERLOCK REQUIRED HP OR WATTAGE (KW) OR FRACTIONAL (F)	MCA	FLA	POWER 60 CYC.		CONTROL		SWITCH INFORMATION		DISCONNECT		NOTES
						VOLTAGE	PHASE	BY	WIRING	TEMPERATURE CONTROL WIRING	STATISTAT BY	SPEED SELECT SWITCH BY	TIME CLOCK BY	
EF-1	EXHAUST - HANGAR	HANGAR	1/2		6.4	120	1	VC	VC					SEE H0200 POWER CONTROL WIRING DIAGRAM
B-1	NAT GAS BOILER - IN-FLOOR HEAT	HANGAR	(F)		0.9	120	1		VC					VC TO PROVIDE AND INSTALL COMPLETE TEMPERATURE CONTROL SYSTEM. TEKIAIR OR OTHER PRE-APPROVED EQUAL.
OP-1	BOILER 1 CIRCULATOR	HANGAR	(F)		1.9	120	1		VC					
OP-2	IN FLOOR HEAT CIRCULATOR - ZONE 1	HANGAR	(F)		0.8	120	1		VC	VC				
UH-1	NAT GAS FIRED UNIT HEATER	HANGAR	(F)		3.8	120	1		VC	VC				
UH-2	NAT GAS FIRED UNIT HEATER	HANGAR	(F)		3.8	120	1		VC	VC				

KEYNOTES

- BY ALTERNATE - CONNECT NEW 2" DOMESTIC WATER SERVICE TO NEW 2" DOMESTIC WATER SERVICE INSTALLED BY SITE UTILITY CONTRACTOR AT THIS LOCATION 5' OUTSIDE THE BUILDING. FURNISH AND INSTALL THRUST BLOCKS AND/OR TIE-RODS IN ACCORDANCE WITH THE LOCAL WATER DEPARTMENT STANDARDS AND REGULATIONS. VERIFY EXACT LOCATION, AND INVERT. BASE BID TO INCLUDE SERVICE STUBBED OUT 5' FROM BUILDING WITH CAP FOR FUTURE, AND SERVICE INTO BUILDING WITH VALVE AND CAP FOR FUTURE. SEE WATER HEADER PIPING DIAGRAM.
- COORDINATE WITH NORTHWESTERN ENERGY TO PROVIDE & INSTALL UTILITY'S UNDERGROUND GAS SERVICE & METERFIT TO THIS LOCATION FOR 349 MBH LOAD. GAS PRESSURE TO BE 7 INCHES W.C. AFTER NWE METERFIT. PROVIDE & INSTALL COMPLETE GAS DISTRIBUTION SYSTEM FROM THE METERFIT AS SHOWN. PREPARE, PRIME, AND PAINT EXPOSED EXTERIOR GAS PIPING TO MATCH UTILITY METERFIT. INSTALLATIONS SHALL COMPLY WITH ALL CODES. SEE NATURAL GAS PIPING DIAGRAM.
- PROVIDE & INSTALL NEW 3000 GAL BELOW GRADE HOLDING TANK FOR SRE BUILDING SANITARY WASTE. PROVIDE & INSTALL 6" SANITARY FROM TANK TO BUILDING. VERIFY EXACT LOCATION AND INVERT.
- PLUMBING CONTRACTOR TO PROVIDE & INSTALL FLOAT LEVEL SENSOR IN HOLDING TANK FOR SRE BUILDING AND VISUAL UGHT ALARM MOUNTED ON EXTERIOR WALL AT 8' AFF WITH LAMINATE PLACARD WITH MIN 1" TALL LETTERS STATING "HOLDING TANK HIGH WATER ALARM". COORDINATE WITH EC FOR POWER REQUIREMENTS.
- COORDINATE ELECTRICAL UTILITY WITH BROOKINGS MUNICIPAL UTILITIES. COORDINATE INSTALLATION WITH PC FOR HOLDING TANK AND WATER SERVICE INSTALLATION.



ELECTRICAL & MECHANICAL SHEET INDEX	
Sheet Number	Sheet Name
M1/E1	ELECTRICAL/MECHANICAL SITE PLAN, LEGEND & SHEET INDEX
M2	PLUMBING & HYDRONICS PLAN & DETAILS
M3	VENTILATION PLAN & MECHANICAL SCHEDULES
E2	ELECTRICAL PLAN
E3	ELECTRICAL SPECIFICATIONS & LEGEND



ELEMENT
CONSULTING ENGINEERS

2216th Ave SE, Suite 3
Aberdeen, SD 57401
Phone: 605-225-4344



SCHROEDER ENGINEERING
Electrical Engineering and Consulting

5253 Veterans Blvd
Fargo, ND 58104
Phone (701) 951-9177

ECE PROJECT NO: 25008

ISSUE:
7-10-26 CONSTRUCTION DOCUMENTS

REVISION SCHEDULE:
REV. # REV. DSC. REV. DATE
1 ADDENDUM ME1 7-20-26
2 ADDENDUM ME2 7-28-26

PROJECT:
BROOKINGS AIRPORT
NEW SRE BUILDING
BROOKINGS, SOUTH DAKOTA

SHEET TITLE:
ELECTRICAL/MECHANICAL SITE
PLAN, LEGEND & SHEET INDEX

M1/E1

