

ADDENDUM #1



PROJECT: Hill City WWTF Improvements

DATE: August 20, 2026

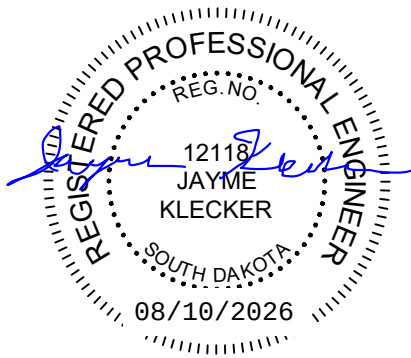
BID DATE: September 30, 2026

The following changes or modifications are to be incorporated into and become a part of the Contract Documents. The Bidder shall note receipt and make acknowledgment of this Addendum on the Bid Proposal, incorporating these provisions in the bid.

CONSTRUCTION MANAGERS BID MANUAL:

- 1) **Project Bidding Requirements**
 - a. **Accepting bids until 2:00 p.m. MST on September 30, 2026**
 - b. **Bids to be delivered to the Scull Construction Services Inc.**
 - i. **801 Industrial Ave. Rapid City, SD 57702**
 - c. **Bids must be submitted on the correct bid form and delivered in a sealed envelope**
 - i. **A sample of a sealed envelope can be seen in the Construction Managers Bid Manual.**
 - d. **No bids or bid modifications will be accepted after bid time**
 - e. **Bids will be Publicly Opened**
- 2) **AE2S Addendum #1 (Attached)**
- 3) **CM Bid Manual (Attached)**

END OF ADDENDUM



ADDENDUM NO. 1
TO
PROJECT DOCUMENTS
FOR
HILL CITY WWTF IMPROVEMENTS PROJECT
FOR
HILL CITY
HILL CITY, SOUTH DAKOTA

August 10, 2026

The following changes, additions, and deletions are hereby made a part of the Bidding Documents for the **HILL CITY WWTF IMPROVEMENTS PROJECT** as fully and completely as if the same were set forth therein. Acknowledge receipt of this addendum in the space provided on the Bid Form. **FAILURE TO DO SO MAY RESULT IN REJECTION OF BID.**

This addendum consists of fifteen (15) pages and the following forty-two (42) attachments.

- Drawing Sheets
 - GEN P007 (Addendum 1)
 - SW C103 (Addendum 1)
 - SW E101 (Addendum 1)
 - SW E102 (Addendum 1)
 - SW E103 (Addendum 1)
 - DLS E101 (Addendum 1)
 - DVM P101 (Addendum 1)
 - DVM E101 (Addendum 1)
 - DVM E102 (Addendum 1)
 - DVM E103 (Addendum 1)
 - DVM E801 (Addendum 1)
 - BLS E101 (Addendum 1)
 - BLS E102 (Addendum 1)
 - BLS E801 (Addendum 1)
 - EB E101 (Addendum 1)
 - EB E102 (Addendum 1)
 - EB E601 (Addendum 1)
 - EB E602 (Addendum 1)
 - EB E603 (Addendum 1)
 - EB E604 (Addendum 1)
 - EB E606 (Addendum 1)
 - EB E608 (Addendum 1)
 - EB E801 (Addendum 1)
 - PTB S313 (Addendum 1)
 - PTB P304 (Addendum 1)
 - PTB E101 (Addendum 1)
 - PTB E602 (Addendum 1)
 - PTB E603 (Addendum 1)
 - PTB E604 (Addendum 1)
 - SBR P601 (Addendum 1)
 - SBR E103 (Addendum 1)
 - PB P101 (Addendum 1)
 - PB P303 (Addendum 1)
 - PB P601 (Addendum 1)
 - PB E105 (Addendum 1)
 - PB E106 (Addendum 1)
 - PB E603 (Addendum 1)
 - SD E703 (Addendum 1)
- Specifications
 - C-620 Contractors Application for Payment – Addendum No. 1
 - 00 63 13 Request for Information Form – Addendum No. 1
 - 00 74 00 Davis Bacon Wage Determination – Addendum No. 1
 - 03 45 00 Precast Architectural Concrete – Addendum No. 1
 -

DRAWINGS

The following changes have been made to the drawings. Revised and additional drawings are provided as an attachment to this addendum. Replace the following drawings in the original bidding documents with the attached addendum drawings:

SHEET GEN P007

1. **Revise** PROCESS GATE SCHEDULE table: "~~304SS Extruded Al~~" in the MATERIAL column for GATE TAGs PTB-SP1, PTB-SP2, PTB-SP3, PTB-SP4, PTB-SP5, PTB-SP6, PTB-SP7, PTB-SG1, and PTB-SG2 (rows 3 through 11).

SHEET SW C103

1. **Revise** Callout text: "~~3' ASPHALT~~ CONCRETE PAVEMENT"

SHEET SW E101

1. **Add** location of existing utility pole to drawings.
2. **Move** Demolition Note 4 reference for clarity.
3. **Revise** callout from existing utility service transformer: "EXISTING *SECONDARY SERVICE CIRCUITRY* TO REMAIN".
4. **Revise** Demolition Note 2: "COORDINATE WITH UTILITY COMPANY FOR DISCONNECTION AND REMOVAL OF UTILITY TRANSFORMER. EXISTING TRANSFORMER FIBERGLASS *GROUND SLEEVE* TO BE DEMOLISHED. COORDINATE DOWNTIMES WITH ENGINEER AND OWNER A MINIMUM OF 72 HOURS PRIOR TO DISCONNECTION."
5. **Revise** Demolition Note 4: "COORDINATE FINAL EXTENT OF PRIMARY UTILITY UNDERGROUND CIRCUITRY TO BE REMOVED *OR EXTENDED WITH THE SERVING ELECTRICAL UTILITY.*"
6. **Revise** Demolition Note 5: "EXISTING GENERATOR PROPANE TANK TO BE DISCONNECTED AND REMOVED *INCLUDING ALL ASSOCIATED APPURTENANCES AND PIPING.*"

SHEET SW E102

1. **Revise** callout for PB: "EXISTING PLANT BUILDING (PB) *SEE 'PB' SHEETS*".
2. **Revise** callout for BLS: "~~BASWASH~~ *BACKWASH* LIFT STATION (BLS)".
3. **Revise** callout for utility switching module: "NEW UTILITY *MEDIUM VOLTAGE PRIMARY SWITCHING MODULE (BY UTILITY)*".
4. **Revise** callout for PTB: "SEE '~~SBR~~' *'PTB'* PLANS FOR CIRCUITRY DETAILS".
5. **Revise** Construction Note 3: "PROVIDE NEW 800A, 277/480V, 3-PHASE, 4-WIRE, NEMA 3R CONNECTION CABINET MOUNTED ON NEW FIBERGLASS GROUND SLEEVE. SIZE GROUND SLEEVE PER APPROVED CONNECTION CABINET. COORDINATE FINAL CABINET LOCATION DURING CONSTRUCTION *WITH ENGINEER AND SERVING ELECTRICAL UTILITY.* INTENT IS TO MOUNT IN SUCH A WAY TO EASILY TERMINATE EXISTING CONDUCTORS FROM MCC-100 WITHIN CABINET. SEE CONSTRUCTION NOTE #2 FOR MORE INFORMATION.

6. **Add** Construction Note 8: *"SERVING ELECTRICAL UTILITY TO PROVIDE CONDUCTORS FROM SWITCHING MODULE TO NEW UTILITY TRANSFORMER. CONTRACTOR TO PROVIDE ALL TRENCHING AND DIRECTIONAL BORING AS REQUIRED. COORDINATE CONDUCTOR ROUTING WITH UTILITY."*

SHEET SW E103

1. **Add** callout: "GENERATOR ANNUNCIATOR PANEL CIRCUITRY".
2. **Add** callout for generator circuitry: "MULTIPLE CONDUITS. SEE CABLE AND CONDUIT SCHEDULE."
3. **Modify** conduit routing from EB.
4. **Revise** Construction Note 7: "UTILITY SERVICE EQUIPMENT AND RELATED CIRCUITRY. SEE RELATED DETAILS AND SPECIFICATION (26 05 08) FOR SCOPE SPLIT AND UTILITY REQUIREMENTS. *ADDITIONAL PROVISION MAY BE REQUIRED FOR SUPPORTING RELOCATION OF EXISTING UNDERGROUND UTILITIES. FINALIZE WITH UTILITY.*"

SHEET DLS E101

5. **Add** callout between lift station box and valve vault: "MULTIPLE CONDUITS".

SHEET DVM P101

1. **Revise** Construction Note 1 text: "AUTOMATED SLUICE GATE (DVM-SLG1) TO CONTROL FLOW TO PTB. GATE POSITION CONTROL BY DOWNSTREAM FLOW METER. MOUNT GATE TO FACE OF MANHOLE. PROVIDE SEALED SURFACE."
2. **Revise** Construction Note 4 text: "STAINLESS STEEL STOP PLATE (DVM-STP1) TO ISOLATE FLOW TO BYPASS POND. CONFIRM GATE DIMENSIONS WITH ENGINEER AFTER FIELD VERIFYING DIMENSIONS OF EXISTING."

SHEET DVM E101

1. **Clarification**: sheet background drawing updated.

SHEET DVM E102

1. **Add** "FLOW METER MANHOLE CONTROL PANEL DETAIL".
2. **Revise** callout for enclosure: "TYPE 3R STAINLESS STEEL JUNCTION BOX ENCLOSURE MOUNTED TO STRUT STAND WITH TB'S TO TRANSITION TO STANDARD WIRE. 24" x 24" x 10" MINIMUM. CONTROL PANEL. SEE FLOW METER MANHOLE CONTROL PANEL DETAIL FOR FURTHER INFORMATION."
3. **Revise** callout for conduit: "TO SAMPLER ENCLOSURE. SEE CABLE AND CONDUIT SCHEDULE FOR CONDUIT QUANTITIES."

SHEET DVM E103

1. **Remove** Construction Note 5: ~~FLOW LOGGER (40-71-00) SHALL BE WALL MOUNTED. CONFIRM FINAL LOCATION WITH ENGINEER PRIOR TO INSTALLATION. FLOW LOGGERS SHALL BE POWERED AND MONITORED BY AUTOMATIC SAMPLER INTEGRAL POWER SUPPLY.~~
2. **Remove** Construction Note 7: ~~PROVIDE RADAR FLOW SENSOR MANUFACTURER INTRINSICALLY SAFE BARRIER. MOUNT BARRIER ON WALL BELOW FLOW LOGGER PER MANUFACTURER RECOMMENDATIONS. COORDINATE FINAL LOCATION WITH ENGINEER DURING CONSTRUCTION.~~

3. **Remove** Construction Note 10: ~~PROVIDE 1-1/2" SPARE CONDUIT ROUTED AS SHOWN ON SW SERIES. CONDUIT TO BE STUBBED UP 2'-0" IN LOCATION AS SHOWN. HAND CAP ENDS NO GLUE.~~
4. **Remove** "DMI-FIT1-ISB1", "DMI-FIT1", "BPI-FIT1-ISB1", and "BPI-FIT1" from Influent Sampler Enclosure Plan.
5. **Modify** Construction Note 11 to be Construction Note 5 and update reference(s) on Drawing.
6. **Modify** Construction Note 9 to be Construction Note 7 and update reference(s) on Drawing.
7. **Add** "DMI CONTROL PANEL" and "BPI CONTROL PANEL" to panel schedule

SHEET DVM E801

1. **Modify** cable and conduit for "DMI-FIT1/FE1" and "BPI-FIT1/FE1" to reflect changes to control panel enclosure.

SHEET BLS E101

1. **Revise** callout: ~~"TP TO 'PB' BUILDING PANEL 'HEM'. SEE 'PB' SERIES FOR DETAILS. ROUTE CONDUIT ON EXTERIOR OF 'PB' BUILDING"~~.
2. **Revise** callout: "MULTIPLE CONDUITS FROM PLS-PIV1-DISC1".
3. **Add** Construction Note 8 to RLS-PIV1.

SHEET BLS E102

1. **Revise** callout: ~~"(1) 2" SCH. 80 PVC CONDUIT STUBBED OUT IN THE DIRECTION OF INCOMING COUNDUITS FROM EB LOCATION SHOWN ON SITE PLAN AND HAND CAPPED WITH NO GLUE FOR FUTURE USE"~~.

SHEET BLS E801

1. **Revise** title block sheet designator to "BLS".

SHEET EB E101

1. **Modify** concrete housekeeping pad to floor mounted control panel.
2. **Add** General Note 1: "SEE 'SW' SERIES AND ONE-LINE DIAGRAM FOR SYSTEM GROUNDING REQUIREMENTS."
3. **Add** General Note 2: "PROVIDE CAST-IN PLACE CONDUIT TO THE GREATEST EXTEND POSSIBLE WITHIN NEW BUILDINGS. COORDINATE WITH STRUCTURAL ENGINEER DURING CONSTRUCTION FOR FINAL STUB OUT LOCATIONS AND REQUIREMENTS."
4. **Modify** concrete housekeeping pad thickness from 4" to 3.5".
 - a. **Revise** Construction Note 2: "4" 3.5" CONCRETE HOUSEKEEPING PAD WITH 3/4" CHAMFERED EDGES. COORDINATE FINAL DIMENSIONS DURING CONSTRUCTION."
 - b. **Revise** Construction Note 3: "DISTRIBUTION PANELBOARD (26 24 16) INSTALLED ON 3.5" HOUSEKEEPING PAD. SEE ONE-LINE DIAGRAM FOR DETAILS."
5. **Revise** Construction Note 4: "LIGHTING PANEL (26 24 16) WALL MOUNTED WITH TOP OF PANEL AT 72" A.F.F. *PROVIDE BENT ALUMINUM SKIRT FROM PANEL TO*

HOUSEKEEPING PAD TO CONCEAL CONDUIT ENDS AND ASSOCIATED WIRING. SEE ONE-LINE DIAGRAM AND, PANEL SCHEDULE FOR DETAILS, AND ASSOCIATED DETAIL."

6. **Revise** Construction Note 6: "~~WALL~~ FLOOR MOUNTED SCADA CONTROL PANEL (40 63 13) FURNISHED BY HARDWARE SYSTEMS INTEGRATOR AND INSTALLED BY CONTRACTOR ON 3.5" HOUSEKEEPING PAD. SEE CONTROL PANEL LAYOUT, IO SCHEDULE, AND NETWORK DIAGRAM FOR DETAILS."

SHEET EB E102

1. **Modify** location of receptacles.
2. **Modify** location of "SOU-1-DISC1".
3. **Add** General Note 1: "ALL EQUIPMENT SHALL BE MOUNTED AT 48" A.F.F. OR GRADE, UNLESS OTHERWISE NOTED."
4. **Add** Construction Note 5: "MOUNT LIGHT MINIMUM OF 9'-8" OR HIGHER TO AVOID MECHANICAL EQUIPMENT INTERFERENCE. PROVIDE PROVISIONS FOR MOUNTING FROM CEILING AS REQUIRED TO AVOID MECHANICAL UNITS IF WALL MOUNTED IS NOT ADEQUATE."
5. **Add** Construction Note 5 callout on sheet.

SHEET EB E601

1. **Remove** redundant ground rod callout.
2. **Remove** ground fault protection from generator on-board breakers.
3. **Modify** callout on generator: "~~BLOCK JACKET WATER~~ HEATER".
4. **Modify** callout for generator ratings: "400KW/500KVA DIESEL GENERATOR, 277/480V, 3Ø, 4W (26 32 13)".
5. **Modify** EB-ATS1 short circuit rating from 65KAIC to 42KAIC.
6. **Modify** EB-DP1 short circuit rating from 65KAIC to 42KAIC.
7. **Remove** Construction Note 1: "~~MCP RATING AS RECOMMENDED BY MANUFACTURER.~~"

SHEET EB E602

1. **Modify** EB-DP1 short circuit rating from 65KAIC to 42KAIC.
2. **Modify** MFS-1-CP1 feeder breaker from 30A/3P to 40A/3P.
3. **Modify** GRS-CP1 feeder breaker from 45A/3P to 50A/3P.
4. **Modify** tag name to "MFS-1- ~~CP1~~ LCS1".
5. **Revise** Construction Note 1: "COMPLETE PANELBOARD LAYOUT NOT SHOWN. SEE RELATED PANEL SCHEDULE FOR BREAKER RATINGS, REQUIREMENTS, SPD REQUIREMENTS, AND ADDITIONAL INFORMATION. PANELBOARD TO HAVE ISOLATED GROUND AND NEUTRAL LUGS."

SHEET EB E603

1. **Modify** EB-DP1 short circuit rating from 65KAIC to 42KAIC.
2. **Modify** SBR-CP1 feeder breaker from 45A/3P to 60A/3P.
3. **Modify** SBR2-WAS1-LCS1 to show JOR switch.

4. **Modify** BACKWASH LIFT STATION JUNCTION BOX to show JOR switches.
5. **Revise** Construction Note 4: "SEE SPECIFICATION SECTION (26 24 23) FOR INPUT FILTER LINE REACTOR REQUIREMENTS."
6. **Add** Construction Note 7: "MOTOR IS A NON-NEMA SUBMERSIBLE THAT MAY DRAW OVER NEMA CURRENT. CONFIRM MOTOR AMPACITY AND MODIFY DESIGN AS REQUIRED TO ACCOMMODATE PUMP REQUIREMENTS AT NO ADDITIONAL COST TO OWNER."
7. **Add** references to Construction Note 7 to submersible pumps.

SHEET EB E604

1. **Modify** EB-DP1 short circuit rating from 65KAIC to 42KAIC.
2. **Revise** Construction Note 4: "SEE SPECIFICATION SECTION (26 24 23) FOR INPUT FILTER LINE REACTOR REQUIREMENTS."
3. **Add** Construction Note 7: "MOTOR IS A NON-NEMA SUBMERSIBLE THAT MAY DRAW OVER NEMA CURRENT. CONFIRM MOTOR AMPACITY AND MODIFY DESIGN AS REQUIRED TO ACCOMMODATE PUMP REQUIREMENTS AT NO ADDITIONAL COST TO OWNER."
4. **Add** references to Construction Note 7 to submersible pumps.

SHEET EB E606

1. **Modify** control panel to be floor standing.

SHEET EB E608

1. **Modify** existing panelboard schedule for generator load bank, receptacles, and other loads shown.

SHEET EB E801

1. **Modify** cable and conduit schedule as shown.

SHEET PTB S313

1. **Add** Elevation: "4946.00 BO OPENING".

SHEET PTB P304

1. **Remove** Elevation: "~~410.00' LEVEL 2~~" in Detail 1/P304.
2. **Remove** Elevation: "~~400.00' LEVEL 4~~" in Detail 1/P304.
3. **Remove** Elevation: "~~0.25' FFE~~" in Detail 1/P304.
4. **Remove** Elevation: "~~3.50' BOT CHANNEL~~" in Detail 1/P304.
5. **Remove** Elevation: "~~9.50' FFE~~" in Detail 1/P304.
6. **Remove** Elevation: "~~410.00' LEVEL 2~~" in Detail 2/P304.
7. **Remove** Elevation: "~~400.00' LEVEL 4~~" in Detail 2/P304.
8. **Remove** Elevation: "~~0.25' FFE~~" in Detail 2/P304.
9. **Remove** Elevation: "~~3.50' BOT CHANNEL~~" in Detail 2/P304.
10. **Remove** Elevation: "~~9.50' GRIT PUMP FFE~~" in Detail 2/P304.

SHEET PTB E101

1. **Modify** tag name to "~~SMP~~ SPU-1" and "~~SMP~~ SPU-1-FS1".

SHEET PTB E602

1. **Modify** tag name to "~~SMP~~ SPU-1-FS1".

SHEET PTB E603

1. **Modify** panel breakers as shown.
2. **Modify** tag name to "~~SMP~~ SPU-1" .

SHEET PTB E604

1. **Modify** cable and conduit schedule as shown.

SHEET SBR P601

1. **Modify** valve schedule as shown.

SHEET SBR E103

1. **Modify** receptacle circuiting numbers.

SHEET PB P101

1. **Add** Existing Bladder Tank to Detail 1/P101.
2. **Add** Callout: "APPROXIMATE LOCATION OF EXISTING BLADDER TANK" to Detail 1/P101.
3. **Remove** Process Improvement #30, Bladder Tank, from Detail 1/P101.
4. **Add** PB1 to Detail 2/P101.
5. **Add** PB2 to Detail 2/P101.
6. **Add** PB3 to Detail 2/P101.
7. **Add** Callout: "EX. BUTTERFLY VALVE" to Detail 2/P101.
8. **Add** Existing Bladder Tank to Detail 2/P101.
9. **Add** Callout: "APPROXIMATE LOCATION OF EXISTING BLADDER TANK" to Detail 2/P101.
10. **Remove** Process Improvement #30, Bladder Tank, from Detail 2/P101.
11. **Remove** Process Improvement #30, Bladder Tank, from Process Improvements.
12. **Remove** Construction Note 1: "~~PROVIDE REDUNDANT ALUM PUMP. MATCH EXISTING MAKE AND MODEL. PLUMB IN COMPLETELY WITH ALL REQUIRED APPURTENANCES.~~"
13. **Revise** Construction Note 2: "PROVIDE GRUNDFOS FLOW SLEEVE AND PUMP MODEL 35S30-11, RATED FOR 36.5 GPM AT 233 FT OF HEAD. *CONNECT TO EXISTING BLADDER TANK.*"

SHEET PB P303

1. **Revise** Process Improvement #43: "STATIC MIXER WITH TWO MIXING ELEMENTS. ~~KO FLO OR EQUAL. ENDS SHALL BE CLASS 150 LB FLAT FACE FLANGES FOR DUCTILE IRON.~~"

SHEET PB P601

1. **Modify** valve schedule as shown.

SHEET PB E105

1. **Add** callout for RLS-PIV1-DISC1: "SEE 'BLS' SERIES DRAWINGS FOR ADDITIONAL INFORMATION".
2. **Add** callout: "SEE 1/E106 FOR CIRCUITRY DETAILS".

SHEET PB E106

1. **Add** callout: "SEE 'BLS' SERIES DRAWINGS FOR ADDITIONAL INFORMATION".

SHEET PB E603

1. **Modify** MCC rating callout to dark text.
2. **Revise** callout for MCC circuitry: "UTILIZE EXISTING 800A CIRCUITRY TO REFEED MCC-100. EXTEND CONDUIT AS REQUIRED TO TERMINATE ~~NEW~~ EXISTING CABLES IN NEW CONNECTION CABINET".
3. **Revise** callout for PB-CC1: "NEW CONNECTION CABINET, 277/480V, 400 800A, 3P, 4W (26 27 19)".
4. **Revise** Construction Note 2: "SEE SPECIFICATION SECTION (26 24 23) FOR INPUT FILTER LINE REACTOR REQUIREMENTS."
5. **Revise** Construction Note 4: "REMAINDER OF MCC-100 LOADS NOT SHOWN FOR CLARITY ON EQUIPMENT BEING MODIFIED OR REPLACED."

SHEET SD E703

1. **Add** detail: "WALL MOUNTED EQUIPMENT CONDUIT HOUSEKEEPING PAD FLOOR PENETRATION DETAIL".

SHEETS SBR S101, SBR S111, SBR S112

1. **Remove** Plan Note 3: "FOR CLARITY, DRAWINGS INCLUDE WORK PACKAGE NO.1 SHEETS - SEE WORK PACKAGE NO. 1 DRAWINGS FOR SCOPE OF WORK REQUIREMENTS."

SHEETS SBR S301, SBR S302, SBR S311, SBR S312,

1. **Remove** Section Note 1: "FOR CLARITY, DRAWINGS INCLUDE WORK PACKAGE NO.1 SHEETS - SEE WORK PACKAGE NO. 1 DRAWINGS FOR SCOPE OF WORK REQUIREMENTS."

SHEET SBR S501, SBR S601, SBR S602

1. **Remove** Detail Note 1: "FOR CLARITY, DRAWINGS INCLUDE WORK PACKAGE NO.1 SHEETS - SEE WORK PACKAGE NO. 1 DRAWINGS FOR SCOPE OF WORK REQUIREMENTS."

SPECIFICATIONSC-545 Work Authorization

1. **Revise** Article 3 – CONTRACT TIMES, Paragraph 3.01.A to state the following:

- a. The Work will be substantially completed on or before July 18, 2028 and completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before August 15, 2028.

C-620 Contractor Application for Payment

1. This section shall be added to the specifications manual and is included as an attachment to this addendum.

00 63 13 Request for Information Form

1. This section shall be added to the specifications manual and is included as an attachment to this addendum.

CMAR700-EEO

1. **Revise** Page EEO – 1 to include “3.4%” in the Goals for minority participation field and “Pennington” in the “covered area” County field.

CMAR700-Debar

1. **Revise** Page Debar – 2 to include “C461231-01” in the SRF Project Number field.

00 74 00 Davis Bacon Wage Determinations

1. This section shall be added to the specifications manual and is included as an attachment to this addendum.

03 45 00 Precast Architectural Concrete

1. This section shall be added to the specifications manual and is included as an attachment to this addendum.

33 10 00 Water Utilities

1. **Revise** Article 2.08, Paragraph A, sub-paragraph 1 to state the following:
 1. Where stainless steel fasteners come in contact with aluminum, ~~ductile iron,~~ or other dissimilar metals *demonstrating a galvanic incompatibility with stainless steel*, separate or isolate bolts and nuts from dissimilar metals with sleeves and washers.
2. **Revise** Article 3.07, Paragraph A to state the following:
 - A. Subject newly laid water main to a leakage and hydrostatic pressure test *in accordance with AWWA C605* at 150 psi (1034.21 kPa) test pressure for a period of two hours. Provide test pump, pipe taps, connecting piping, test gauge and all necessary appurtenances.

33 13 00 Disinfection of Water Systems

1. **Revise** Article 1.06, Paragraph A to state the following:
 - A. Regulatory Agency Requirements: Comply with South Dakota Department of Environment and Natural Resources (SDDENR) requirements. *When flushing the line, the water used for disinfecting the water line must not reach a stream, river, or other waterway if chlorine is detected in the water. Contact the Department of*

Agriculture and Natural Resources Water Quality Program at (605) 773-5559 for more information.

33 30 00 Sanitary Sewer Utilities

1. **Revise** Article 3.05 to state the following:

- A. Section 01 45 00 - Quality Control: Field inspection and testing.
- B. Request inspection prior to placing backfill above pipe.
- C. If tests indicate Work does not meet specified requirements, remove Work, replace and retest at no cost to Owner.
- D. Frequency of Compaction Tests: In accordance with Section 01 45 00.
- E. Leakage Test: Test in accordance with Section 33.94 or 33.95 of the 2004 Recommended Standards for Wastewater Facilities, Great Lakes-Upper Mississippi River Board of State and Provincial Public Health and Environmental Managers (Ten States Standards).
- F. *Hydrostatic Testing Method*
 - 1. *Subject newly laid pipe to a leakage and hydrostatic pressure test at 150 psi test pressure for a period of two hours. Provide test pump, pipe taps, connecting piping, test gauge and all necessary appurtenances.*
 - 2. *Fill force main with water a minimum of 24 hours before the test and expel all air from the main.*
 - 3. *Avoid development of water hammer in pipeline.*
 - 4. *Add make-up water from a vessel of known volume whenever gauge pressure at the testing point falls 5 psi below the required test pressure or on a continuous basis if a suitable by-pass test pump is used, when performing the test.*
 - 5. *Add make-up water through a corporation stop; not through fire hydrant.*
 - 6. *Pressure test service leads and laterals with force mains prior to connection to services.*
 - 7. *Test against closed valves block to block.*
 - 8. *Leakage shall not exceed the allowances indicated below:*

Nominal Pipe Size (inches)	Allowable Leakage in U.S. gallons per Hour for 1000 lineal

	<i>feet (Average Test Pressure in Line: 150 psi)</i>
1	0.09
1.5	0.14
2	0.18
3	0.28
4	0.37
6	0.55
8	0.74
10	0.92
12	1.10

9. *If pipeline test section includes various diameters, then allowable leakage shall be the sum of the computed leakage for the applicable lengths of each size.*
10. *Locate and repair any visible leaks and any defective areas if test fails.*
11. *Retest after completion of repairs.*
12. *Repeat procedure until tests pass.*

G. Deflection Test: Test in accordance with Ten States Standards, Section 33.84 and 33.85.

40 27 30 Process Gates

1. **Add** "RW Gate" as an acceptable manufacturer under Article 2.01, Paragraph A.
2. **Revise** Article 2.06, Paragraph C to state the following:
 - C. For stems in more than one piece and with a diameter of 1-1/2 inches and larger, the different sections shall be jointed together by ~~solid bronze~~ couplings of C63200 *bronze or stainless steel. Stainless steel couplings of the same material as the stem must be accompanied by an anti-galling lubricant.* A minimum of 1-1/2 inch diameter stem shall be provided.
3. **Revise** Article 2.03, Paragraph B. to state the following:
 - B. Threaded stems shall be 303MX, 304, or 316 stainless steel.
4. **Revise** Article 2.05, Paragraph A to state the following:
 - A. The plate shall be of minimum thickness 1/4" extruded aluminum alloy meeting ASTM B-209 reinforced with stiffeners as required so the plate will not deflect more

than 1/360th of the span of the gate under the design head. The plate shall be equipped with handles for use in raising and lowering. Handles will be stainless steel castings ~~which shall be welded to the plate~~ *or fabricated from bars and/or rods*. No hand holes through the plate will be allowed. For gates wider than 24", two handles will be provided.

40 53 13 OEM Control Panels and Hardware

1. **Revise** Article 2.03, Paragraph I, sub-paragraph 5, clause c to state the following:

c. ~~Prior~~ Approved Equal

43 11 33 Rotary Lobe Blowers

1. **Revise** Article 2.02, Paragraph A to state the following:

A. Aeration Basins Rotary Lobe Positive Displacement Blowers

Number of Blowers	1
Blower IDs	SBR1-PB4
	800 SCFM
Design <i>Inlet</i> Flow	700 SCFM/ 900 <i>Inlet cfm</i> (4300' ASL, 100 F)
Design Discharge Pressure	8.2 PSIG
Design Ambient Temperature	90 degrees Fahrenheit
Design Maximum Blower Inlet Temperature	104 degrees Fahrenheit
Design Minimum Blower Inlet Temperature	-25 degrees Fahrenheit
Design Relative Humidity	50%
Site Elevation	4930 FT MSL
Ambient Atmospheric Pressure	12.0 PSIA
Inlet Pressure Loss (Max)	0.2 PSI
Inlet Pressure (at blower inlet connection)	11.8 PSI
Motor Horsepower	50 60 HP
Speed Control	Variable Frequency Drive
Free Field Noise Guarantee	98 dB(A) or less @ 1 m (@ design pt)
Minimum Bearing L-10 Life	167,000 HRS

43 21 14 Recessed Impeller Vortex Type Slurry Pumps

1. **Add** "Flygt" as an acceptable manufacturer under Article 2.01, Paragraph C.

43 25 13 Submersible Wet Pit Sewage Pumps

1. **Add** “Flygt” as an acceptable manufacturer under Article 2.01, Paragraph A.
2. **Revise** Article 2.02, Paragraph A, subparagraph 2, clause a. to state the following:
 - a. Pumping units shall be designed for following performance and design requirements:

Location/Purpose	Backwash Lift Station Pumps
Cooling Jacket	No
Number of Pumps	2
Speed Control	N/A VFD
Type	Non-Clog
Minimum Horsepower	4
Minimum Sphere Size (in.)	3
60Hz Total Dynamic Head (ft)	19
60Hz Design Flow (gpm)	100
Minimum Required Shutoff Head (ft)	27
Maximum Nominal Pump Speed (rpm)	1800
Minimum Efficiency at Rated Head, (%)	29
Minimum NPSHA at Rated Head (ft)	25
Top of Wet Well Base Slab Elev. (ft)	4932.0
High Water Level Elev. (ft)	4938.25
Low Water Level Elev. (ft)	4933.25
Maximum Force Main Elevation (ft)	4947.61
Minimum Pump Suction Size (in.)	4
Minimum Pump Discharge Size (in.)	4

3. **Revise** Article 2.02, Paragraph C, subparagraph 2, clause a. to state the following:
 - a. Pumping units shall be designed for following performance and design requirements:

Location/Purpose	SBR Waste Activated Sludge Pump
Cooling Jacket	No
Number of Pumps	1
Speed Control	N/A VFD
Type	Non-Clog
Minimum Horsepower	4
Minimum Sphere Size (in.)	3
60Hz Design Flow Total Dynamic Head (ft)	10
60Hz Design Flow (gpm)	127
Minimum Required Shutoff Head (ft)	14
Maximum Nominal Pump Speed (rpm)	1,800
Minimum Efficiency at Rated Head, (%)	21
Minimum NPSHA at Rated Head (ft)	35
Top of SBR Base Slab Elev. (ft)	4928.50
High Water Level Elev. (ft)	4943.00
Low Water Level Elev. (ft)	4939.17
Maximum Force Main Elevation (ft)	4944.88
Minimum Pump Suction Size (in.)	4
Minimum Pump Discharge Size (in.)	4

46 21 35 Cylindrical Perforated Plate Screens

1. **Add** "Helisieve" after the word "Corporation" under Article 2.01, Paragraph B.
2. **Revise** Article 2.04, Paragraph A, sub-paragraph 1 to state the following:
 1. The semi-cylindrical fine screen shall be designed and built to withstand all static and hydraulic forces exerted by ~~teh~~ the liquid to the screen. All structural ~~and~~ and functional parts shall be sized for the loads encountered during screening, conveying and pressing operations.

46 23 00 Grit Removal System

1. **Add** "Trillium" as an acceptable manufacturer under Article 2.01, Paragraph B.
2. **Revise** Article 2.03, Paragraph J, sub-paragraph 1 to state the following:

1. Baffle (~~Lakeside~~) : A baffle system shall be installed. The baffle shall be an integral control baffle for ~~both~~ the inlet ~~and outlet~~ of the main chamber. The baffle shall be 304L stainless steel and designed to prevent short-circuiting and as a weir control device to control the water level in the main chamber. The baffle shall be installed by the Contractor using 5/8-inch anchor bolts.
3. **Revise** Article 2.06, Paragraph D, sub-paragraph 9 to state the following:
 9. Ethernet Switch: Allen-Bradley Stratix 5200 Managed Switch, 6 ports w/ two SFP slots.
4. **Remove** Article 2.06, Paragraph D, sub-paragraph 14.

46 50 16 Sequencing Batch Reactor System

1. **Add** Paragraph D to Article 1.04:
 - D. Flow splitting and distribution of flow between SBR1 and SBR2 will be constructed by CMAR.
2. **Revise** Article 2.03, Paragraph B, Sub-paragraph 1 to state the following:
 1. Design aeration system around the following blower inlet volumetric flow rate at the specified submergence.

Parameter	Value	Unit
Blower Inlet Volumetric Air Rate	800-900	ICFM-CFM (4300' ASL, 100 F)
Diffuser Submergence (@ AVE. Aeration Depth)	13.2	ft

3. **Add** sub-paragraph 2 to Article 2.05, Paragraph A:
 2. Construction of SBR2 effluent pumping structure (Decant Lift Station) by CMAR.
4. **Add** Sub-paragraph 4 to Article 2.06, Paragraph A:
 4. Coordination of cycles between the existing SBR1 and SBR2 will be the responsibility of the Systems Controls Integrator. Decant cycles of SBR1 and SBR2 must not overlap.
5. **Add** sub-paragraph 5 to Article 3.04, Paragraph C
 5. CMAR shall provide seed sludge and influent wastewater for startup operations.

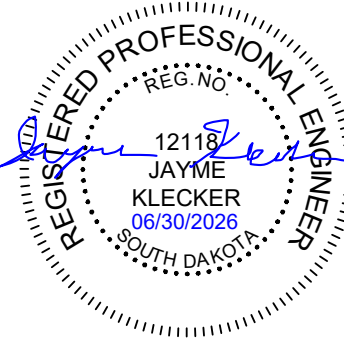
END OF ADDENDUM NO. 1

File: C:\Users\Phon\OneDrive\AES\2021\2021-2023-005-Hill_City_WWTF_Improvements\Project Files\04-Process\GateSched\GateSched.dgn SHEETS.dgn
Printed By: Paul John Date: Monday, August 3, 2026

PROCESS GATE SCHEDULE																
GATE TAG	SERVICE	TYPE	WIDTH (IN.)	HEIGHT (IN.)	MATERIAL	MOUNTING STYLE	INVERT TYPE	STEM CONFIGURATION	OPERATOR	OPERATOR MOUNTING	OPERATING FLOOR ELEVATION (MSL)	MINIMUM GATE INVERT ELEVATION	MAXIMUM GATE INVERT ELEVATION	SEATING HEAD (FT)	UNSEATING HEAD (FT)	REMARKS
DVM-STP1	DIVERSION MANHOLE	STOP PLATE	12" (CONTRACTOR TO FIELD VERIFY WIDTH)	16" (CONTRACTOR TO FIELD VERIFY HEIGHT)	316SS	EMBEDDED	FLUSH	HANDLE	MANUAL	NA	4951.97	±4947.79	-	1.00	0.00	Normally Open
DVM-SLG1	DIVERSION MANHOLE	SLIDE GATE	12" (CONTRACTOR TO FIELD VERIFY WIDTH)	16" (CONTRACTOR TO FIELD VERIFY HEIGHT)	316SS	EMBEDDED	FLUSH	RISING STEM	ELECTRICALLY ACTUATED	YOKE MOUNTED	4951.97	±4947.80	4947.00	1.00	0.00	Normally Closed
PTB-SP1	MANUAL BAR SCREEN	STOP PLATE	30"	30"	EXTRUDED AL	EMBEDDED	FLUSH	HANDLE	MANUAL	NA	4949.00	4945.75	NA	1.00	0.00	
PTB-SP2	MANUAL BAR SCREEN	STOP PLATE	30"	30"	EXTRUDED AL	EMBEDDED	FLUSH	HANDLE	MANUAL	NA	4949.00	4945.75	NA	1.00	0.00	
PTB-SP3	MECHANICAL FINE SCREEN	STOP PLATE	30"	30"	EXTRUDED AL	EMBEDDED	FLUSH	HANDLE	MANUAL	NA	4949.00	4945.75	NA	1.00	0.00	
PTB-SP4	MECHANICAL FINE SCREEN	STOP PLATE	30"	30"	EXTRUDED AL	EMBEDDED	FLUSH	HANDLE	MANUAL	NA	4949.00	4945.75	NA	1.00	0.00	
PTB-SP5	GRIT REMOVAL UNIT	STOP PLATE	15"	30"	EXTRUDED AL	EMBEDDED	FLUSH	HANDLE	MANUAL	NA	4949.00	4945.75	NA	1.00	0.00	
PTB-SP6	GRIT REMOVAL UNIT	STOP PLATE	30"	30"	EXTRUDED AL	EMBEDDED	FLUSH	HANDLE	MANUAL	NA	4949.00	4945.75	NA	1.00	0.00	
PTB-SP7	GRIT REMOVAL UNIT	STOP PLATE	30"	30"	EXTRUDED AL	EMBEDDED	FLUSH	HANDLE	MANUAL	NA	4949.00	4945.75	NA	1.00	0.00	
PTB-SG1	SPLITTER BOX	SLIDE GATE	24"	21"	EXTRUDED AL	EMBEDDED	FLUSH	RISING STEM	MANUAL	YOKE MOUNTED	4949.00	4946.00	4947.50	0.50	0.00	DOWNWARD OPENING
PTB-SG2	SPLITTER BOX	SLIDE GATE	24"	21"	EXTRUDED AL	EMBEDDED	FLUSH	RISING STEM	MANUAL	YOKE MOUNTED	4949.00	4946.00	4947.50	0.50	0.00	DOWNWARD OPENING



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



STATUS: FOR BIDDING

08/07/26

DATE

SYM

HILL CITY WWTF IMPROVEMENTS

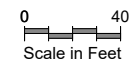
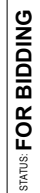
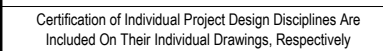
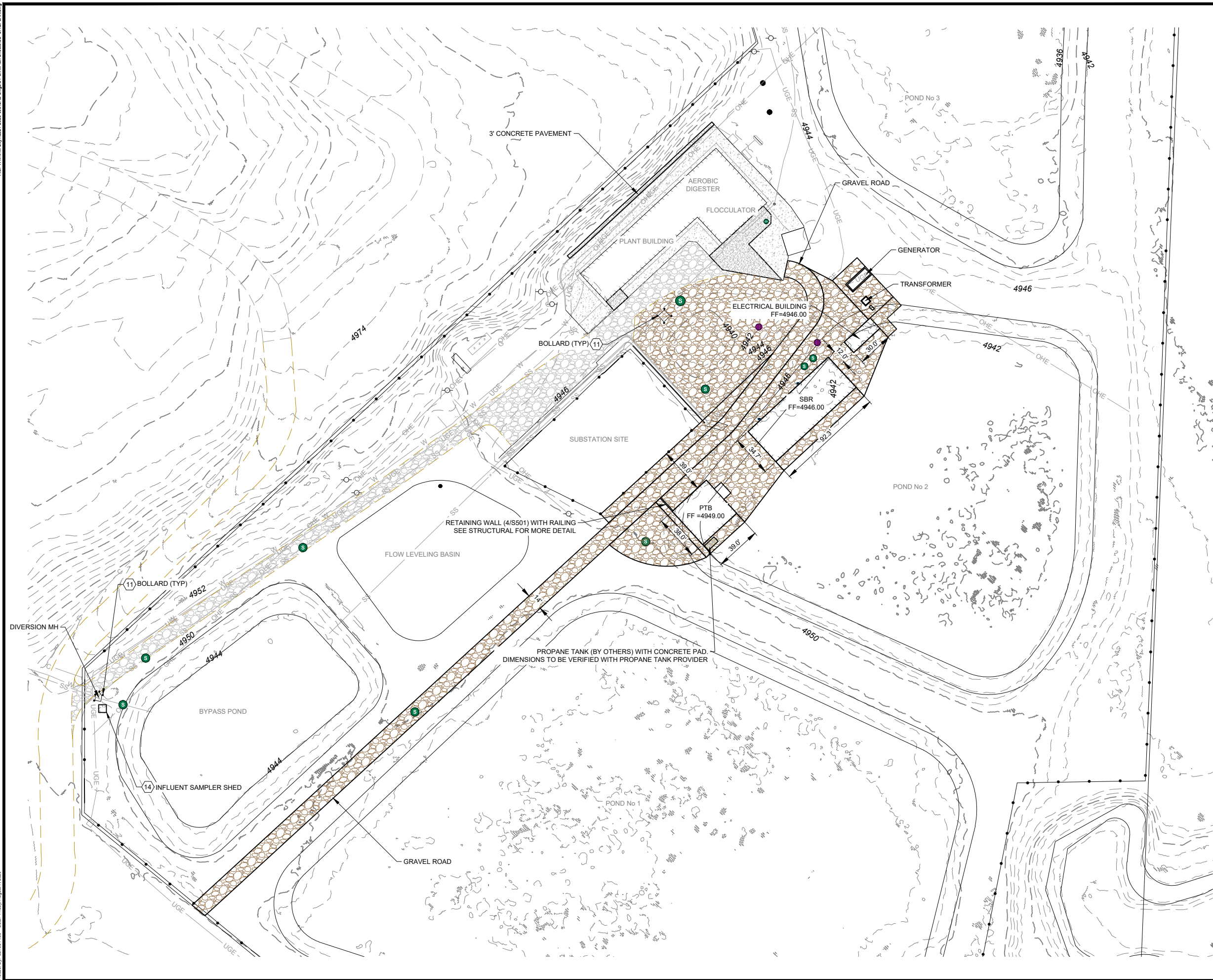
Advanced Engineering and Environmental Services, LLC www.ae2s.com

PROJECT TITLE:

PROCESS SCHEDULES

CLIENT:		PREPARED BY: PW/H
CITY OF HILL CITY		CHECKED BY: ZJR/JJ
HILL CITY, SOUTH DAKOTA		APPROVED BY: JJK

PROJECT NO: 12021-2023-005	SHEET DESIGNATOR:	SHEET NO:
DATE: JUNE 2026	GEN	P007
ALT. PROJECT NO: N/A		



- 1 NEW STANDARD SANITARY SEWER LINE PER
DETAIL 1/C701.
- 2 CONNECT TO EXISTING MANHOLE PER DETAIL 2/C701.
- 3 CONNECTION SHALL BE MADE 5' FROM BUILDING. SEE
PROCESS AND STRUCTURAL DRAWINGS FOR
STRUCTURE PENETRATIONS
- 4 CONNECT EXISTING SANITARY SEWER TO NEW
MANHOLE WITH ELASTOMERIC GASKET OR BOOT PER
STANDARD MANHOLE DETAIL 1 & 2/C702.
- 5 CONNECT TO LIFT STATION
- 6 BACKWASH LIFT STATION SEE SHEET BLS P101
- 7 CONNECT TO EXISTING UTILITY. FIELD VERIFY DEPTH
AND LOCATION.
- 8 NEW MANHOLE OVER EXISTING SANITARY SEWER LINE.
SEE DETAIL 1/C702
- 9 NEW SANITARY SEWER CLEAN OUT PER DETAIL (2/C701)
- 10 SCUM DECANT LIFT STATION SEE SHEET SDL P102
- 11 BOLLARD PER DETAIL (2/C701)
- 12 INSULATE ALL WATER AND SEWER MAIN THAT IS
SHALLOWER THAN 6' BURY DEPTH PER DETAIL 5/C701
- 13 SDDOT CLASS A RIP RAP
- 14 INFLUENT SAMPLER SHED PER DETAIL (2/P101)
- 15 YARD HYDRANT PER DETAIL (7/C701)
- 16 SADDLE TAP PER DETAIL (3/C704)
- 17 SANITARY SEWER CLEAN OUT PER DETAIL (1 & 2/C703)
- 18 STORM DRAIN CATCH BASIN PER DETAIL (3/C703)
- 19 LINER PENETRATION AND REPAIR PER DETAIL
(5, 6, & 7/C702)

1. CONTRACTOR MUST MAINTAIN ACCESS TO SUBSTATION THROUGHOUT THE ENTIRETY OF CONSTRUCTION.

OVERALL SITE PLAN

CITY OF HILL CITY
HILL CITY, SOUTH DAKOTA

CHECKED BY: 7R

APPROVED BY: JK

PROJECT NO: 12021-2023-005

SHEET DESIGNATOR:

DATE: JUNE 2026

SW

ALT. PROJECT NO:

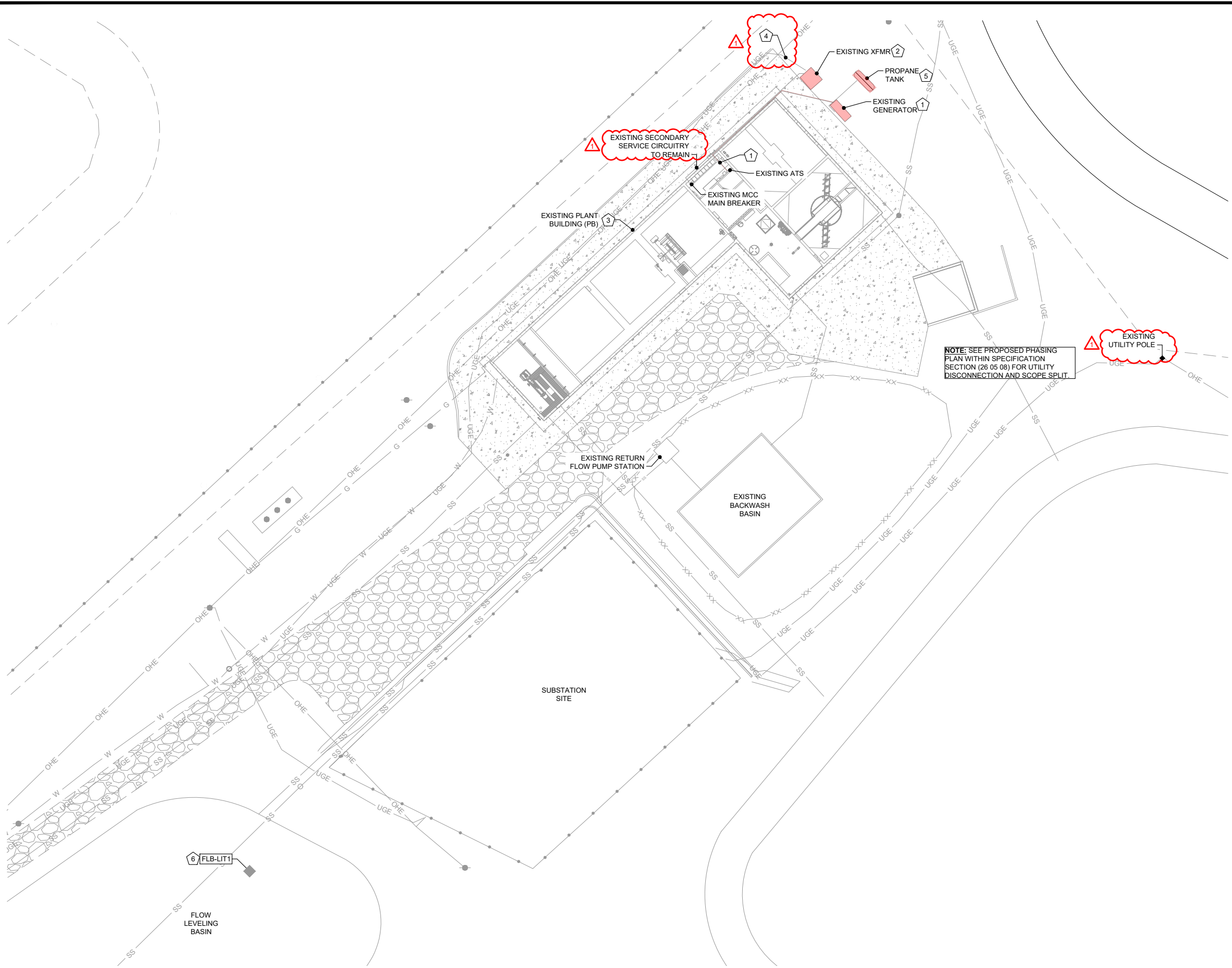
SW

C103

HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

File: C:\Users\Brenda\OneDrive\AES\2021-2023\005 Hill City - WWTF Improvement\Project Files\06-Electrical\AutoCAD\Plan Sheet\E-SW-Site Plan-Demo.dwg
Plotted By: Brenda Berndt Date: Friday, August 7, 2026



1 OVERALL ELECTRICAL DEMOLITION SITE PLAN



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



DEMOLITION LEGEND
ITEMS TO BE REMOVED
ITEMS TO BE REUSED

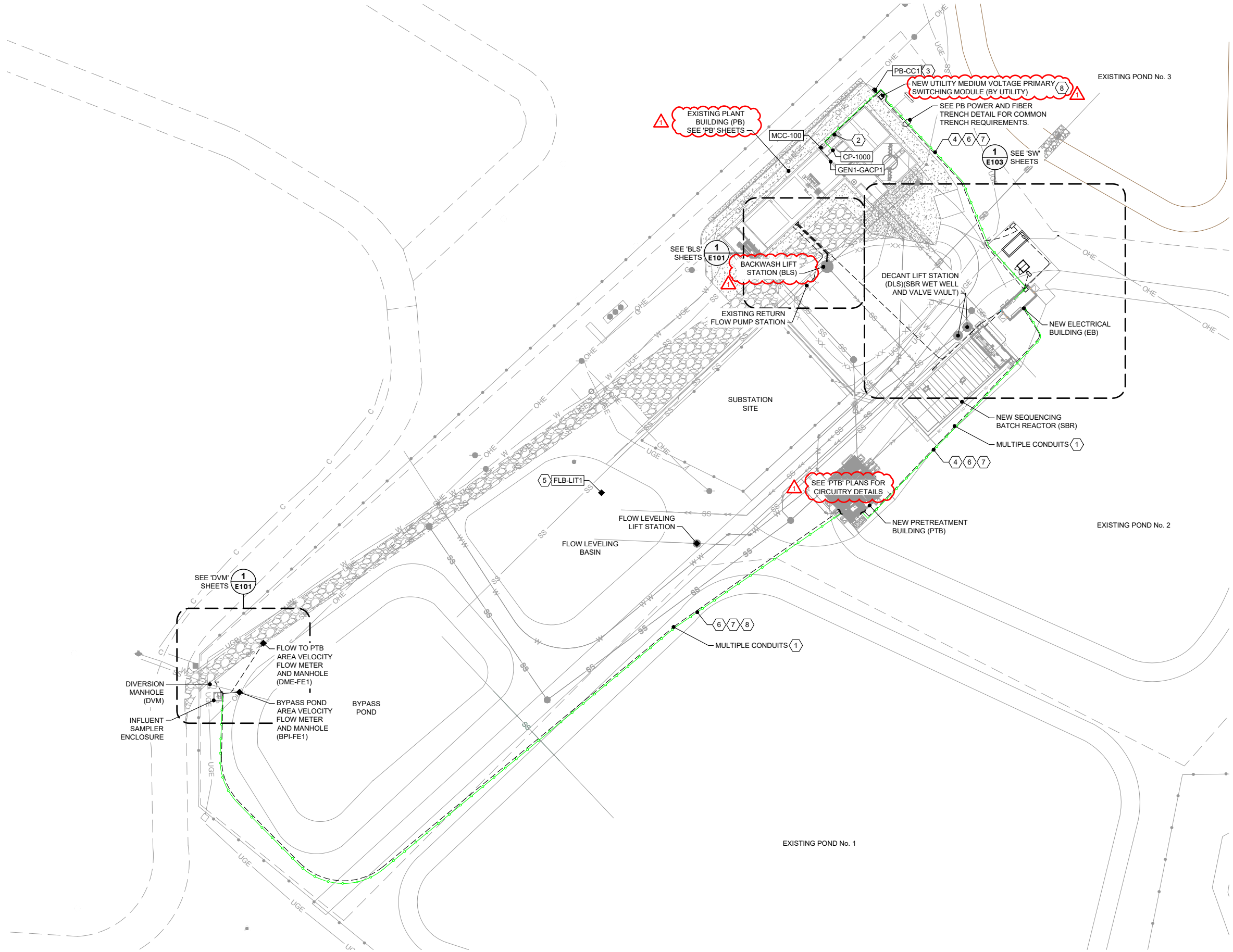
GENERAL NOTES
1. ALL GROUND SURFACES WHERE ELECTRICAL EQUIPMENT DISCONNECTED OR REMOVED TO BE REPAIRED TO MATCH SURROUNDING AREA. SEE SPECIFICATION (26 05 02).

- DEMOLITION NOTES**
- 1 EXISTING GENERATOR/ATS TO BE DISCONNECTED AND REMOVED. GENERATOR AND ALL RELATED EQUIPMENT TO BE TURNED OVER TO THE OWNER. EXISTING CONCRETE PAD TO BE DEMOLISHED. EXISTING CONDUCTORS TO BE REMOVED BACK TO LOAD OR SOURCE AND EXISTING CONDUITS TO BE REMOVED TO THE GREATEST EXTENT POSSIBLE.
 - 2 COORDINATE WITH UTILITY COMPANY FOR DISCONNECTION AND REMOVAL OF UTILITY TRANSFORMER. EXISTING TRANSFORMER FIBERGLASS GROUND SLEEVE TO BE DEMOLISHED. COORDINATE DOWNTIMES WITH ENGINEER AND OWNER A MINIMUM OF 72 HOURS PRIOR TO DISCONNECTION.
 - 3 EXISTING PLANT BUILDING (PB) TO BE MODIFIED. SEE 'PB' SERIES FOR INFORMATION.
 - 4 COORDINATE FINAL EXTENT OF PRIMARY UTILITY UNDERGROUND CIRCUITRY TO BE REMOVED OR EXTENDED WITH THE SERVING ELECTRICAL UTILITY.
 - 5 EXISTING GENERATOR PROPANE TANK TO BE DISCONNECTED AND REMOVED INCLUDING ALL ASSOCIATED APPURTENANCES AND PIPING.
 - 6 EXISTING LEVEL TRANSDUCER TO BE DISCONNECTED AND REMOVED. EXISTING CONDUCTORS TO BE REMOVED FROM CONDUIT. EXISTING CONDUIT AND JUNCTION BOX TO REMAIN FOR REUSE.

OVERALL ELECTRICAL DEMOLITION SITE PLAN

CLIENT:	CITY OF HILL CITY HILL CITY, SOUTH DAKOTA	PREPARED BY: IPS
PROJECT NO: 12021-2023-005	SHEET DESIGNATOR:	CHECKED BY: TNF
DATE: JUNE 2026	SW	APPROVED BY: J.L.W.
ALT. PROJECT NO: N/A	E101	

File: C:\Users\Brendt\OneDrive\AES\2021-2023\005 Hill City - WWSF Improvements\Project Files\005 Electrical\AutoCAD\Plan Sheets\E SW Site Plan.dwg
Plotted By: Barry Berndt Date: Friday, August 7, 2026



1 OVERALL ELECTRICAL IMPROVEMENTS SITE PLAN
E102

FIBER (SEE NETWORK DIAGRAM)



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING SEAL OFFS AS REQUIRED BY NEC. SEE HAZARDOUS AREA CLASSIFICATION SHEET FOR ADDITIONAL INFORMATION.
2. NOT ALL SITE CIRCUITRY IS SHOWN ON THIS DRAWING. SEE CABLE AND CONDUIT SCHEDULE FOR ADDITIONAL REQUIREMENTS.
3. ALL BELOW GRADE CONDUIT TO BE BURIED AT 24" MINIMUM, UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES

- 1 PROVIDE HANDHOLE (QUAZITE TIER 15 OR EQUAL) EVERY 250FT, MAXIMUM, OR AS NEEDED TO REDUCE CIRCUITRY BENDS OF 270 DEGREES OR GREATER. SIZE HANDHOLE PER NEC REQUIREMENTS. PROVIDE SEPARATE HANDHOLES OR SEPARATORS WITHIN A COMMON HANDHOLE FOR DIFFERENT VOLTAGE LEVELS/CABLE TYPES. SEE RELATED DETAIL.
- 2 EXISTING CIRCUITRY TO BE REUSED. EXTEND EXISTING CONDUIT WITHIN NEW CONNECTION CABINET (PB-CC1) AS REQUIRED. FIELD CONFIRM SIZE OF EXISTING CONDUIT.
- 3 PROVIDE NEW 800A, 277/480V, 3-PHASE, 4-WIRE, NEMA 3R CONNECTION CABINET MOUNTED ON NEW FIBERGLASS GROUND SLEEVE. SIZE GROUND SLEEVE PER APPROVED CONNECTION CABINET. COORDINATE FINAL CABINET LOCATION DURING CONSTRUCTION WITH ENGINEER AND SERVING ELECTRICAL UTILITY. INTENT IS TO MOUNT IN SUCH A WAY TO EASILY TERMINATE EXISTING CONDUCTORS FROM MCC-100 WITHIN CABINET. SEE CONSTRUCTION NOTE #2 FOR MORE INFORMATION.
- 4 PROVIDE #8 TRACER WIRE (TYPE P1 WITH BLACK JACKET) ALONG WITH FIBER CABLE.
- 5 NEW SUBMERSIBLE LEVEL TRANSDUCER (40 72 00) TO BE FURNISHED BY SYSTEMS INTEGRATOR (40 61 13) AND INSTALLED BY CONTRACTOR. COORDINATE WITH OWNER FOR DRAINAGE OF BASIN FOR INSTALLATION OF NEW TRANSDUCER. RECONNECT EXISTING CIRCUITRY FROM PLANT SCADA.
- 6 PROVIDE 1" ORANGE HDPE SDR 13.5 MINIMUM INNERDUCT. SEE NETWORK DIAGRAM AND TRENCHING DETAIL.
- 7 PROVIDE SEPARATE AT-GRADE TIER 15 HANDHOLES AS REQUIRED FOR FIBER CABLE INSTALLATION. EACH HANDHOLE SHALL HAVE 20' OF COILED MAINTENANCE LOOPS OF FIBER PROVIDED. SIZE HANDHOLES AS REQUIRED TO ACCOMMODATE BEND RADIUS OF FIBER CABLE.
- 8 SERVING ELECTRICAL UTILITY TO PROVIDE CONDUCTORS FROM SWITCHING MODULE TO NEW UTILITY TRANSFORMER. CONTRACTOR TO PROVIDE ALL TRENCHING AND DIRECTIONAL BORING AS REQUIRED. COORDINATE CONDUCTOR ROUTING WITH UTILITY.

SHEET TITLE: **OVERALL ELECTRICAL IMPROVEMENTS SITE PLAN**

CLIENT: **CITY OF HILL CITY**
HILL CITY, SOUTH DAKOTA

PROJECT NO. 12021-2023-005
DATE: JUNE 2026
ALT. PROJECT NO: N/A

SW **E102**

STATUS: **FOR BIDDING**

1 08-07-26 ADDENDUM No. 1

APPR

DATE

SYM

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

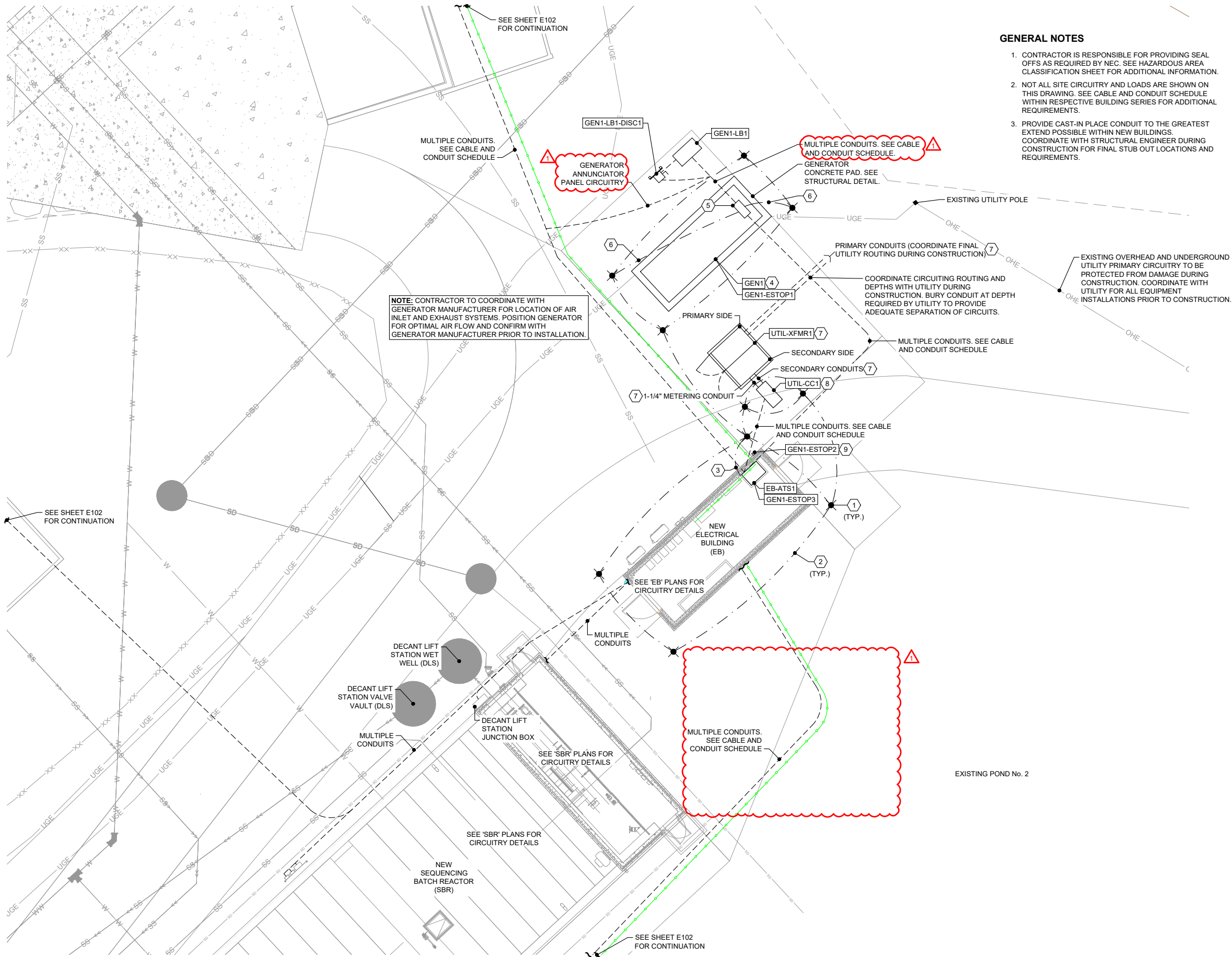
DATE

DATE

DATE

DATE

File: C:\Users\Brenda\Documents\AES21 2021-2023\005 Hill City - WWTF Improvement\Project Files\005 Electrical\AutoCAD\Plan Sheets\E SW Site Plan.dwg
Plotted By: Brenda Berndt Date: Friday, August 7, 2026



1 ENLARGED ELECTRICAL IMPROVEMENTS SITE PLAN
E103

GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING SEAL OFFS AS REQUIRED BY NEC. SEE HAZARDOUS AREA CLASSIFICATION SHEET FOR ADDITIONAL INFORMATION.
2. NOT ALL SITE CIRCUITRY AND LOADS ARE SHOWN ON THIS DRAWING. SEE CABLE AND CONDUIT SCHEDULE WITHIN RESPECTIVE BUILDING SERIES FOR ADDITIONAL REQUIREMENTS.
3. PROVIDE CAST-IN PLACE CONDUIT TO THE GREATEST EXTEND POSSIBLE WITHIN NEW BUILDINGS. COORDINATE WITH STRUCTURAL ENGINEER DURING CONSTRUCTION FOR FINAL STUB OUT LOCATIONS AND REQUIREMENTS.



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



CONSTRUCTION NOTES

- 1 5/8"x10" COPPER CLAD STEEL GROUND ROD WITH TOP AT 30" BELOW GRADE. UTILIZE A UL LISTED IRREVERSIBLE COMPRESSION CRIMP TO SECURE ROD TO GROUND CONDUCTOR.
- 2 PROVIDE #4/0 AWG BARE, STRANDED COPPER GROUNDING CONDUCTOR BURIED AT 30" BELOW GRADE. INSTALL WITH ADEQUATE SLACK TO PREVENT CONDUCTORS FROM PULLING AWAY FROM TERMINATIONS.
- 3 UTILIZE A UL LISTED IRREVERSIBLE COMPRESSION CRIMP TO SECURE THE GROUND CONDUCTOR FROM THE SERVICE ENTRANCE TO THE GROUND ROD.
- 4 STANDBY EMERGENCY DIESEL GENERATOR (26 32 13) ON CONCRETE PAD. COORDINATE PAD REQUIREMENTS WITH GENERATOR SUPPLIER. SEE ONE-LINE AND PAD DETAIL WITHIN STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 5 COORDINATE BOXOUT THROUGH CONCRETE PAD FOR ALL CONDUITS PRIOR TO PAD BEING POURED. BOXOUT SHALL BE FILLED WITH A FLOWABLE/REMOVABLE HARD FOAM EQUAL TO POLYWATER AFTER INSTALLATION OF CONDUITS TO PREVENT PESTS FROM ENTERING THROUGH BOXOUT AFTER INSTALLATION.
- 6 UTILIZE A UL LISTED IRREVERSIBLE COMPRESSION CRIMP TO BOND THE GROUND CONDUCTORS FROM THE GENERATOR GROUNDING LUGS TO THE GROUND CONDUCTORS AT OPPOSITE CORNERS.
- 7 UTILITY SERVICE EQUIPMENT AND RELATED CIRCUITRY. SEE RELATED DETAILS AND SPECIFICATION (26 05 08) FOR SCOPE SPLIT AND UTILITY REQUIREMENTS. ADDITIONAL PROVISION MAY BE REQUIRED FOR SUPPORTING RELOCATION OF EXISTING UNDERGROUND UTILITIES. FINALIZE WITH UTILITY.
- 8 CONNECTION CABINET (UTIL-CC1) PROVIDED BY CONTRACTOR PER UTILITY REQUIREMENTS AND INSTALLED ON FIBERGLASS GROUND SLEEVE. METER SOCKET CAN PROVIDED BY CONTRACTOR ON CONNECTION CABINET. SEE RELATED DETAILS AND SPECIFICATION SECTION (26 05 08) FOR ADDITIONAL INFORMATION.
- 9 GENERATOR EMERGENCY STOP PUSHBUTTON TO BE WALL MOUNTED 5'-0" ABOVE GRADE. SEE ONE-LINE DIAGRAM FOR DETAILS.
- 10 GENERATOR LOAD BANK (26 32 13) MOUNTED ON CONCRETE PAD IN LOCATION SHOWN. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE ONE-LINE DIAGRAM.

FIBER (SEE NETWORK DIAGRAM)

ENLARGED ELECTRICAL IMPROVEMENTS SITE PLAN

CLIENT: CITY OF HILL CITY
HILL CITY, SOUTH DAKOTA

PREPARED BY: IPS
CHECKED BY: TNF
APPROVED BY: JLV

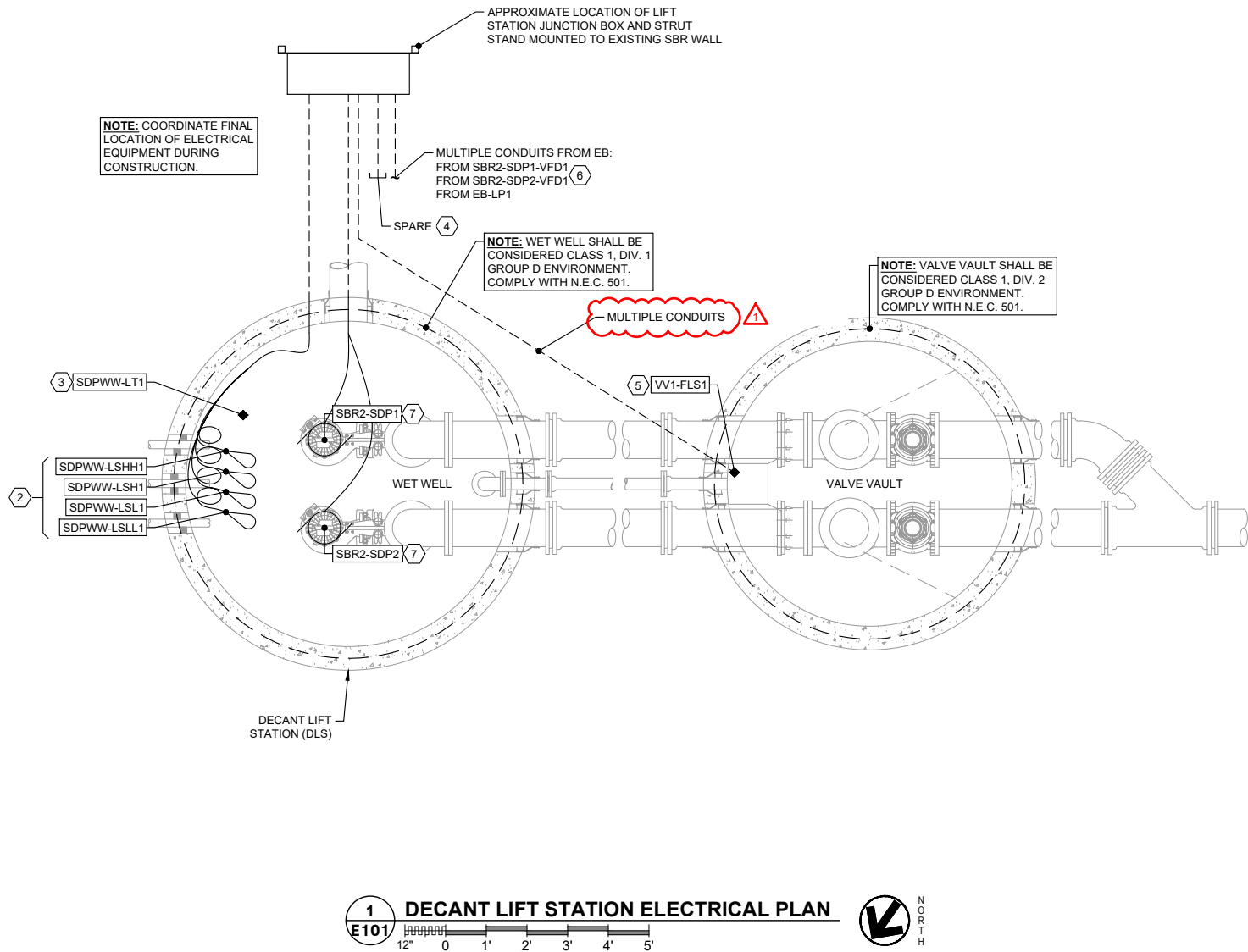
PROJECT NO: 12021-2023-005
DATE: JUNE 2026
ALT. PROJECT NO: N/A

SHEET DESIGNATOR: SW
SHEET NO: E103

STATUS: FOR BIDDING
1 08-07-26 ADDENDUM No. 1
SYM DATE

HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



STATUS: FOR BIDDING

1	SYN	DATE	APPR
1		08-07-26	



CONSTRUCTION NOTES

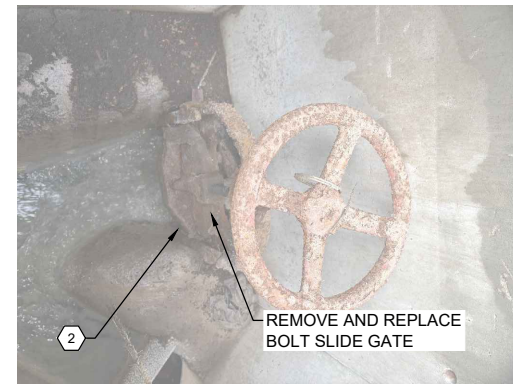
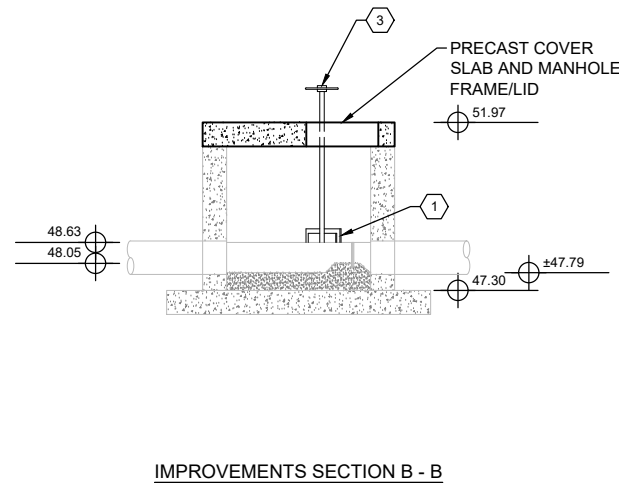
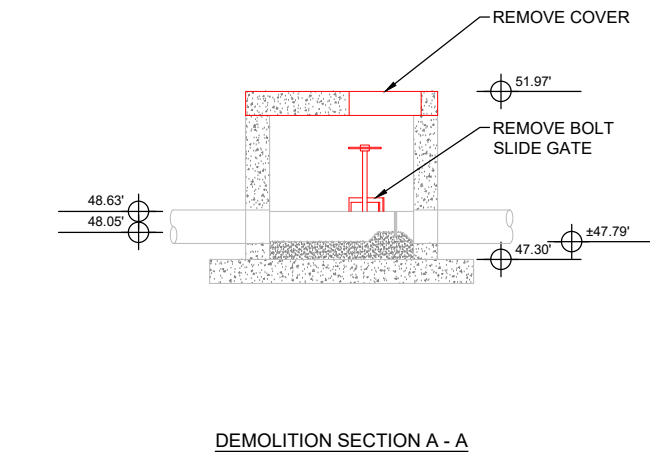
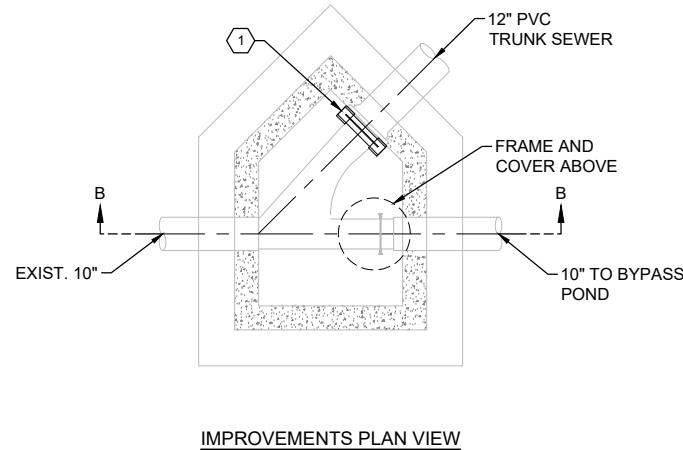
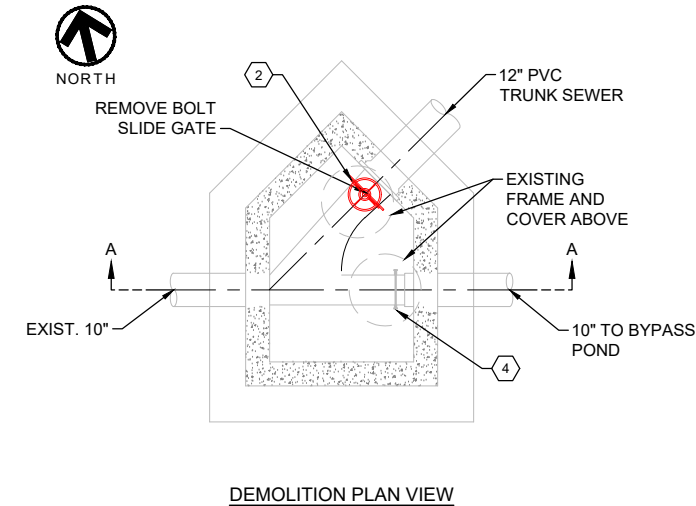
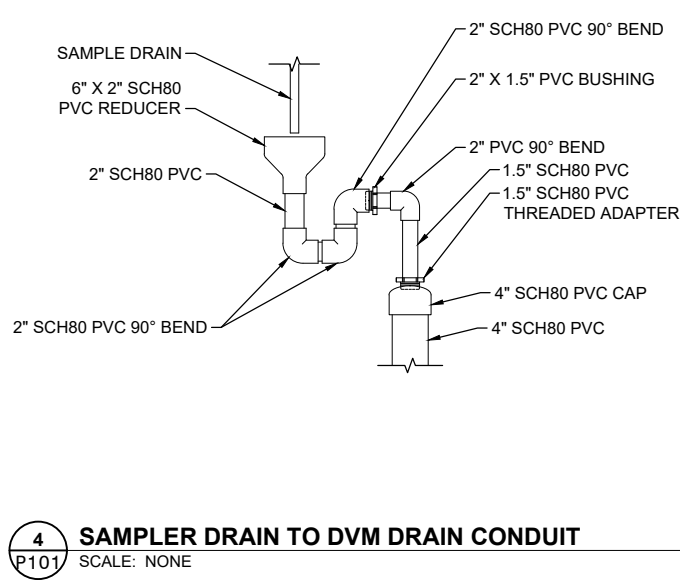
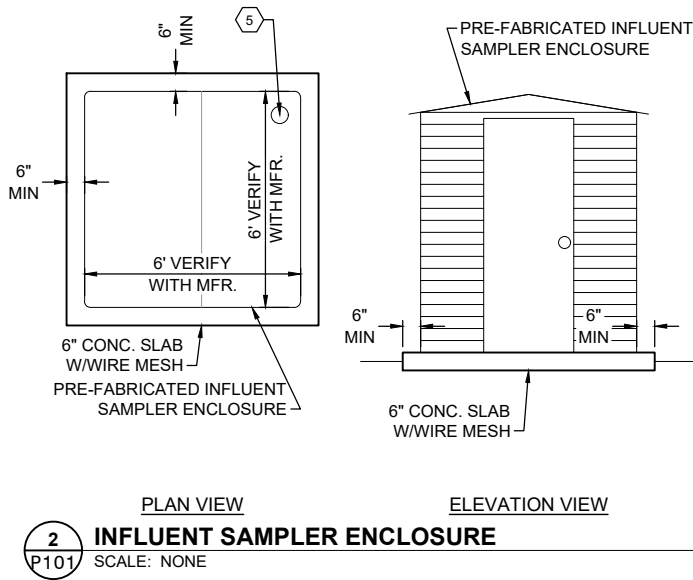
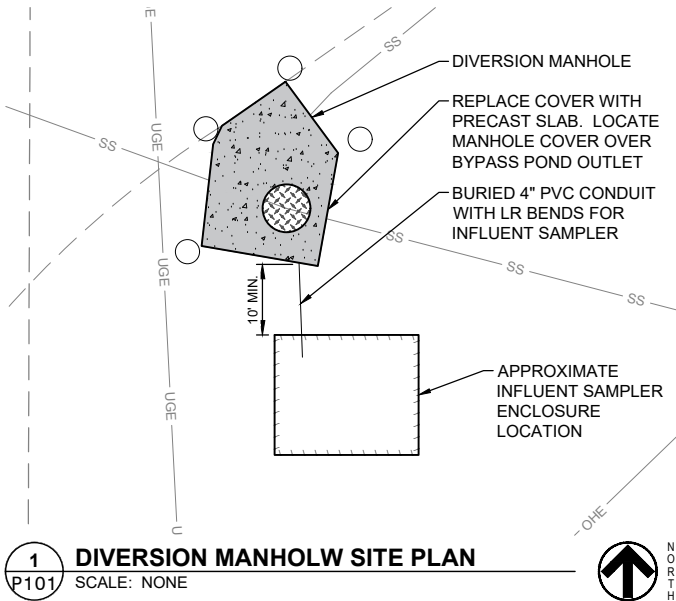
- 1 LIFT STATION JUNCTION BOX FURNISHED BY HARDWARE SYSTEMS INTEGRATOR (40 61 13) AND WALL MOUNTED ON STRUT STAND TO EXISTING BUILDING BY CONTRACTOR.
- 2 PROVIDE FOUR (4) FLOAT SWITCHES (40 72 00) MOUNTED WITHIN WET WELL. SEE DECANT LIFT STATION SECTION VIEW FOR DETAILS.
- 3 SUBMERSIBLE LEVEL TRANSDUCER (40 72 00) INSTALLED WITHIN WET WELL. SEE DECANT LIFT STATION SECTION VIEW FOR DETAILS.
- 4 SPARE CONDUIT, HAND CAP (NO GLUE). DRIVE STEEL ROD TO DENOTE LOCATION OF CONDUIT. SEE ONE-LINE DIAGRAM FOR DETAILS.
- 5 FLOOD SWITCH MOUNTED WITHIN VALVE VAULT (40 72 00). SEE SECTION VIEW FOR DETAILS.
- 6 CIRCUITRY SHALL BE BURIED AT 24" BELOW GRADE. CONDUIT SHALL BE SCHEDULE 80 PVC.
- 7 SUBMERSIBLE PUMP LOCATED WITHIN WET WELL. SEE ONE-LINE DIAGRAM FOR DETAILS.

HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

DECANT LIFT STATION ELECTRICAL PLAN

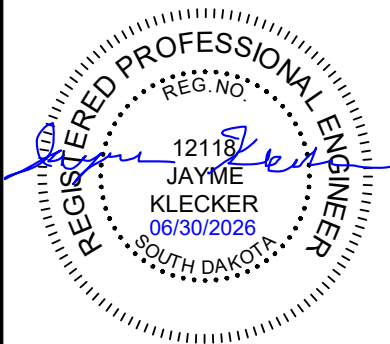
CLIENT:	CITY OF HILL CITY HILL CITY, SOUTH DAKOTA	PREPARED BY: CAT	CHECKED BY: TNF	APPROVED BY: J.LW
PROJECT NO: 12021-2023-005	SHEET DESIGNATOR:	SHEET NO:		
DATE: JUNE 2026	DLS		E101	
ALT. PROJECT NO: N/A				



3 DIVERSION MANHOLE IMPROVEMENTS
SCALE: NONE



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



- CONSTRUCTION NOTES**
- 1 AUTOMATED SLUICE GATE (DVM-SLG1) TO CONTROL FLOW TO PTB. GATE POSITION CONTROL BY DOWNSTREAM FLOW METER. MOUNT GATE TO FACE OF MANHOLE. PROVIDE SEALED SURFACE.
 - 2 MODIFY EXISTING DIVERSION MANHOLE TO ACCOMMODATE NEW GATES, INCLUDING REQUIRED DEMOLITION, RECONSTRUCTION, SURFACE PREP, AND INSTALLATION
 - 3 GATE ACTUATOR AND MANUAL BYPASS HANDWHEEL SHALL BE LOCATED ABOVE MANHOLE COVER.
 - 4 STAINLESS STEEL STOP PLATE (LVM-STP1) TO ISOLATE FLOW TO BYPASS POND. CONFIRM GATE DIMENSIONS WITH ENGINEER AFTER FIELD VERIFYING DIMENSIONS OF EXISTING
 - 5 CONDUIT OPENING TO DVM. SEE DETAIL 4/DVM/P101

STATUS: FOR BIDDING

1 08/07/26 DATE

SYM

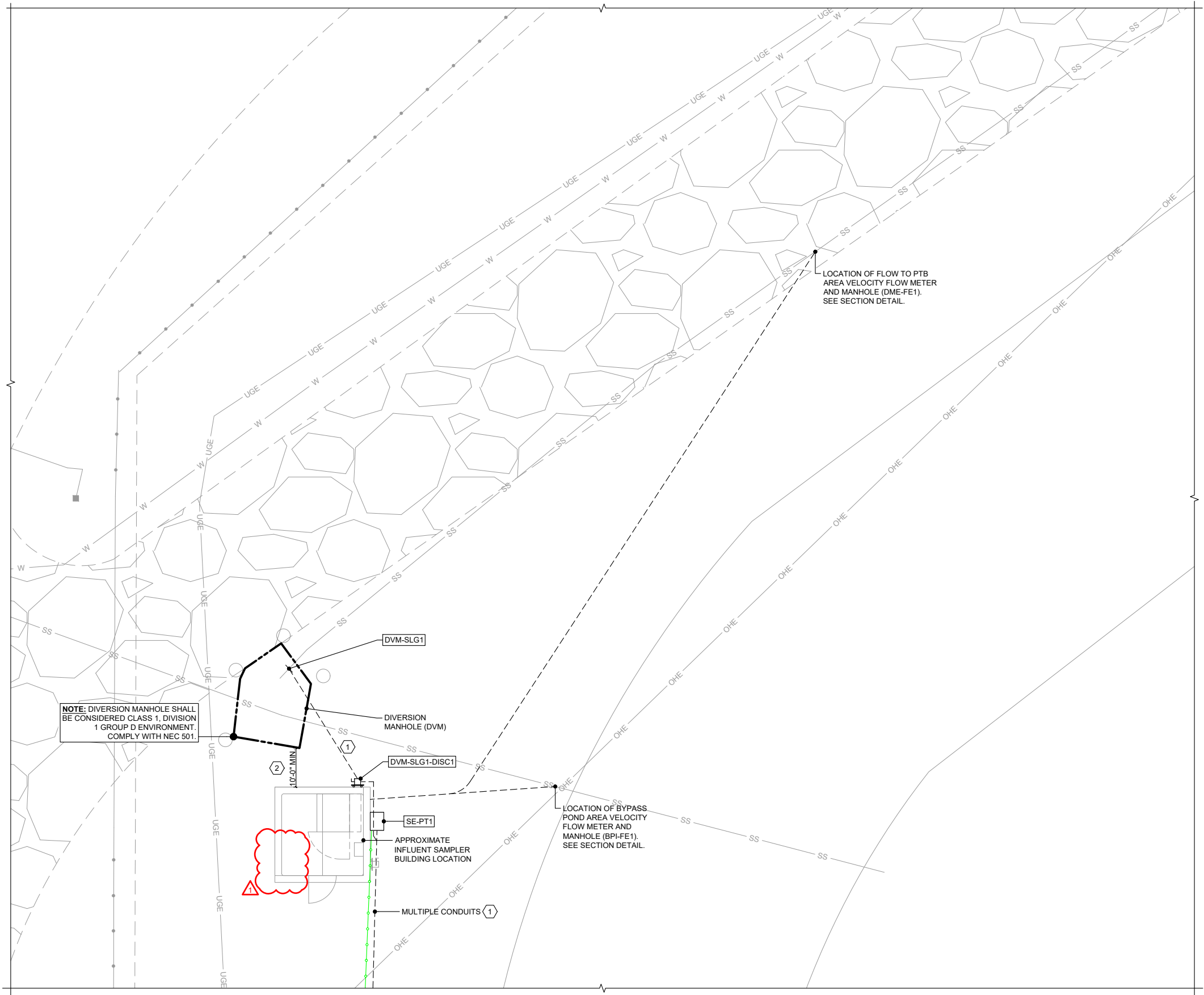
APPR

HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

SHEET TITLE: DIVERSION MANHOLE - IMPROVEMENTS		
CLIENT: CITY OF HILL CITY HILL CITY, SOUTH DAKOTA	PREPARED BY: PWJH CHECKED BY: JEK APPROVED BY: JEK	
PROJECT NO: 12021-2023-005 DATE: JUNE 2026 ALT. PROJECT NO: N/A	SHEET DESIGNATOR: DVM	SHEET NO: P101

File: C:\Users\Brenda\OneDrive\AES\12021-2023\005 Hill City - WWSF Improvement\Project Files\005 Electrical\AutoCAD\Plan Sheets\E101.dwg
Plotted By: Brenda Berndt Date: Friday, August 7, 2026

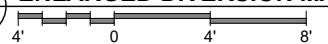


NOTE: DIVERSION MANHOLE SHALL BE CONSIDERED CLASS 1, DIVISION 1 GROUP D ENVIRONMENT. COMPLY WITH NEC 501.

LOCATION OF FLOW TO PTB AREA VELOCITY FLOW METER AND MANHOLE (DME-FE1). SEE SECTION DETAIL.

LOCATION OF BYPASS POND AREA VELOCITY FLOW METER AND MANHOLE (BPI-FE1). SEE SECTION DETAIL.

1 ENLARGED DIVERSION MANHOLE ELECTRICAL SITE PLAN



FIBER (SEE NETWORK DIAGRAM)



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



CONSTRUCTION NOTES

- 1 CONDUIT SHALL BE BURIED AT 24" BELOW GRADE. CONDUIT SHALL BE SCHEDULE 80 PVC.
- 2 SAMPLER ENCLOSURE PAD SHALL BE A MINIMUM OF 10'-0" FROM EDGE OF DIVERSION MANHOLE.

ENLARGED DIVERSION MANHOLE SITE PLAN

CLIENT: CITY OF HILL CITY HILL CITY, SOUTH DAKOTA		PREPARED BY: IPS
PROJECT NO: 12021-2023-005		CHECKED BY: TNF
DATE: JUNE 2026		APPROVED BY: JLW
ALT. PROJECT NO: N/A		

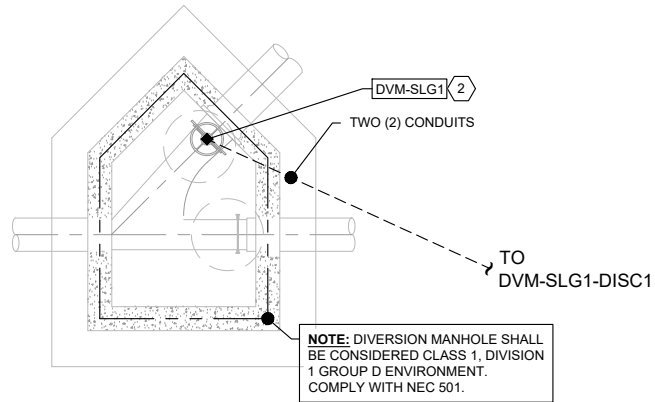
DVM E101

STATUS: **FOR BIDDING**

1	SYM	DATE	APPR
1		08-07-26	

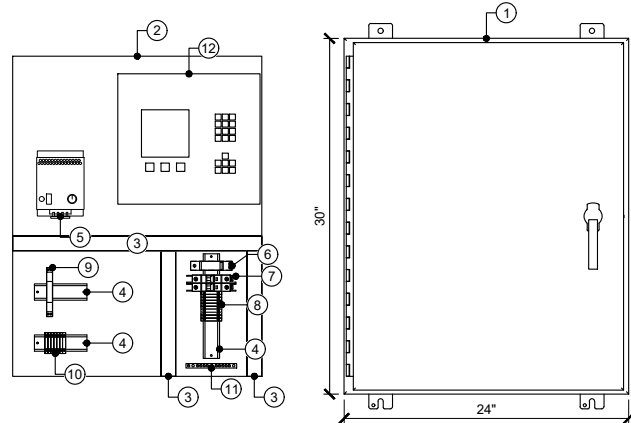
HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com



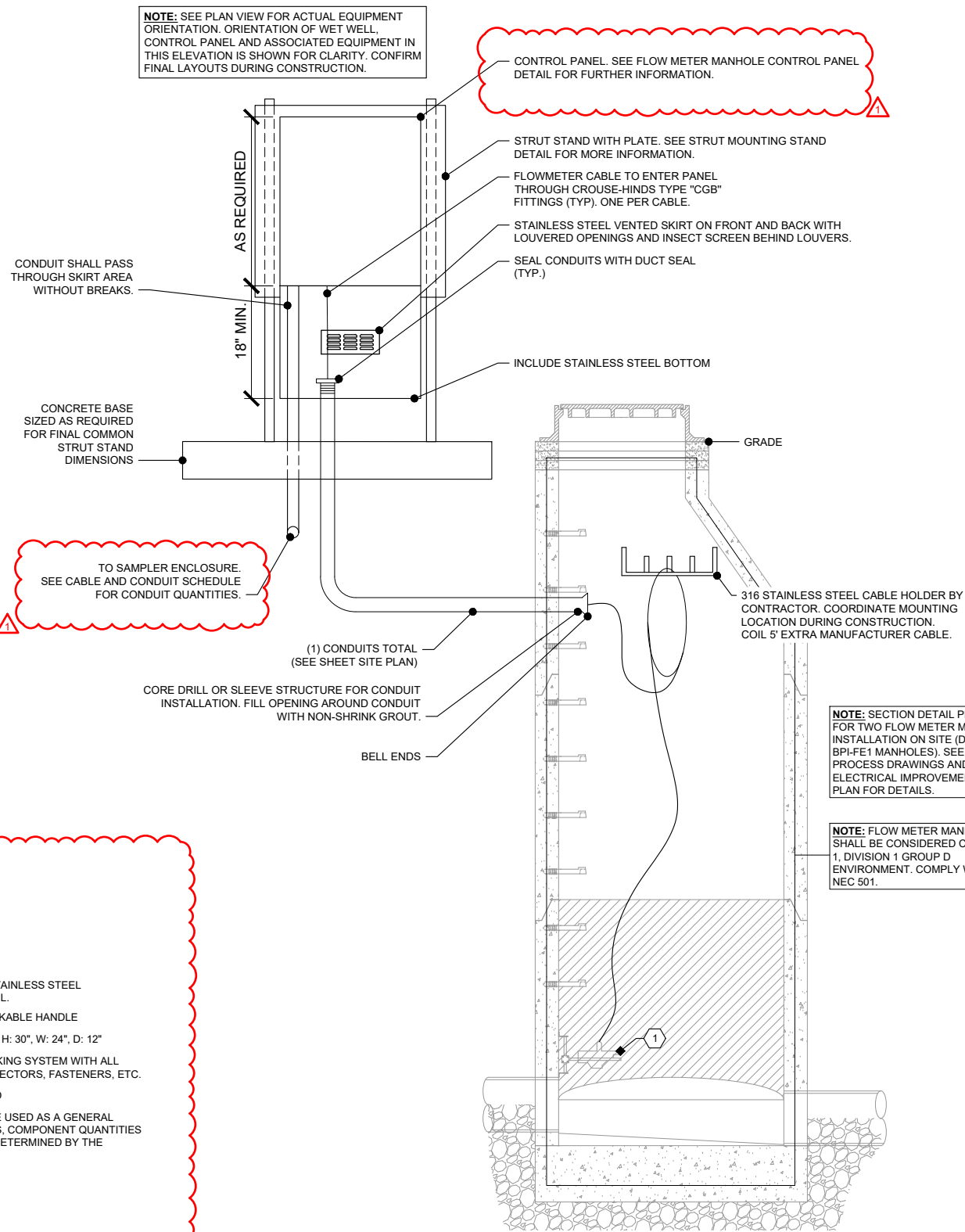
1 DIVERSION MANHOLE ELECTRICAL PLAN
E102 SCALE: NONE

PARTS LIST	
MARK	DESCRIPTION
①	WALL MOUNT ENCLOSURE
②	SUB-PANEL
③	WIREWAY W/COVER, SIZED TO FIT
④	ZINC PLATED, CHROMATED STEEL, 35mm X 7.5mm DIN RAIL
⑤	ENCLOSURE CONDENSATION HEATER
⑥	SURGE PROTECTION/LIGHTNING PROTECTION
⑦	DIN RAIL MOUNTED CIRCUIT BREAKER(S)
⑧	CIRCUIT BREAKERS, GENERAL PURPOSE TERMINAL BLOCKS, SCREW CONNECTION, (ASSOCIATED END BARRIERS, END STOPS, SEPARATION PLATES, ETC.)
⑨	INTRINSICALLY SAFE BARRIER (ANALOG)
⑩	INTRINSICALLY SAFE TERMINAL BLOCKS
⑪	GROUND BUSS BAR
⑫	FLOW LOGGER/TRANSMITTER



SUB-PANEL LAYOUT ENCLOSURE LAYOUT

2 FLOW METER MANHOLE CONTROL PANEL DETAIL
E102 SCALE: NONE



3 FLOW METER MANHOLE SECTION
E102 SCALE: NONE



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



- CONSTRUCTION NOTES
- ① RADAR FLOW SENSOR (40 71 00) MOUNTED WITHIN MANHOLE.
 - ② AUTOMATED SLIDE GATE. PROVIDE REMOTE SELECTOR WITH OPEN/CLOSE INDICATION AND MANUAL OVERRIDE. SEE RELATED PROCESS DRAWINGS FOR MORE INFORMATION.

SHEET TITLE: DIVERSION MANHOLE ELECTRICAL SECTION AND PLAN		
CLIENT: CITY OF HILL CITY HILL CITY, SOUTH DAKOTA	PREPARED BY: PGM CHECKED BY: TNF APPROVED BY: JLW	
PROJECT NO: 12021-2023-005 DATE: JUNE 2026 ALT. PROJECT NO: N/A	SHEET DESIGNATOR: DVM	SHEET NO: E102

STATUS: FOR BIDDING

1 08-07-26 ADDENDUM No. 1

DATE

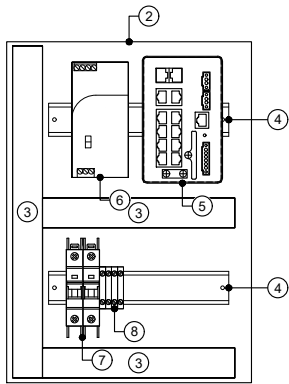
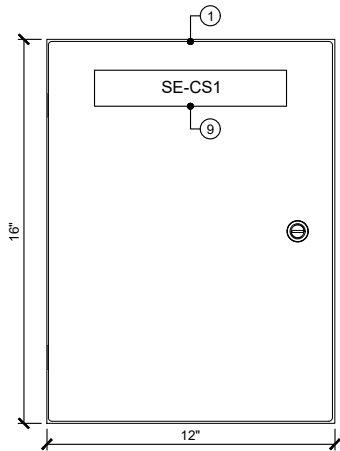
SYN

APPR

HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

File: C:\Users\Barnett\Documents\AES\12021-2023-005 Hill City - WRF Improvements\Project Files\Electrical\AutoCAD\Plan Sheets\DWG\Plan.dwg
Printed By: Barry Berndt Date: Friday, August 7, 2026

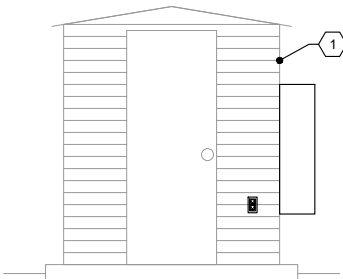
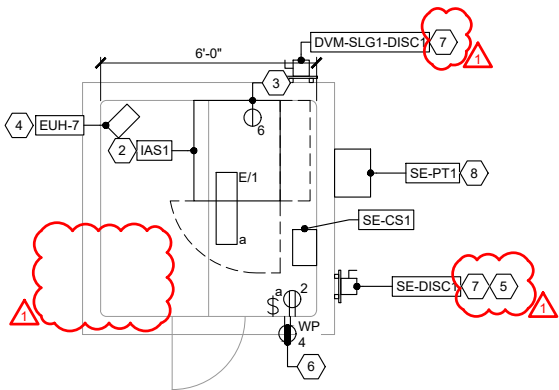


CONTROLS JUNCTION BOX NOTES

1. WALL-MOUNTED ENCLOSURE WITH SUB PANEL SHALL BE A NEMA TYPE 12, 14 GAUGE STEEL.
2. APPROXIMATE PANEL DIMENSIONS: H: 16", W: 12", D: 8"
3. SUB-PANEL LAYOUT IS TO BE USED AS A GENERAL LAYOUT. EXACT DIMENSIONS, COMPONENT QUANTITIES AND EXACT LAYOUT TO BE DETERMINED BY THE SYSTEMS INTEGRATOR.
4. PANEL TO BE UL 508A LISTED.

PARTS LIST	
MARK	DESCRIPTION
①	WALL MOUNT ENCLOSURE
②	SUB-PANEL
③	WIREWAY W/COVER, SIZED TO FIT
④	ZINC PLATED, CHROMATED STEEL, 35mm X 7.5mm DIN RAIL
⑤	ETHERNET SWITCH
⑥	120VAC/24VDC POWER SUPPLY
⑦	DIN MOUNTED CIRCUIT BREAKER
⑧	GENERAL PURPOSE TERMINAL BLOCKS, SCREW CONNECTION, (ASSOCIATED END BARRIERS, END STOPS, SEPARATION PLATES, ETC.)
⑨	1.5" X 8" BLACK NAMEPLATE WITH WHITE LETTERING (0.5" TEXT)

1 CONTROL STATION PANEL LAYOUT
E103 SCALE: NONE



2 INFLUENT SAMPLER ENCLOSURE PLAN
E103

3 INFLUENT SAMPLER ENCLOSURE ELEVATION
E103

PANEL SCHEDULE											
PANEL: SE-PT1		LOCATION: SE		VOLTS: 240 / 120		PHASE: 1		W: 3			
AMP SECONDARY MAIN BKR: 30A			AIC RATING: 18,000			MOUNT: SURFACE		FED FROM: SE-DISC1			
CIRCUIT DESCRIPTION		LOAD VA	CKT. BKR.	P	CKT. No.	PH.	CKT. No.	P	CKT. BKR.	LOAD VA	CIRCUIT DESCRIPTION
LIGHTING - SAMPLER ENCLOSURE		26	20	1	1	A	2	1	20	180	RECEPTACLES - INTERIOR
SE-CS1		200	20	1	3	B	4	1	20	180	RECEPTACLES - EXTERIOR
DMI CONTROL PANEL		150	20	1	5	A	6	1	20	480	RECEPTACLES - SAMPLER (IAS1)
BPI CONTROL PANEL		150	20	1	7	A	8		BY MFG	-	SPD
SPARE		-	20	1	9	B	10	2		-	
CONNECTED TOTALS: KVA1.37 AMPS5.69 Phase A8.2Amps Phase B3.2Amps						NOTES: - ALL CIRCUIT BREAKERS SHALL BE LOCKABLE IN THE OFF POSITION - PROVIDE 50KA SPD FOR SURGE SUPPRESSION					

4 PANEL SCHEDULE
E103 SE-PT1



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



CONSTRUCTION NOTES

- 1 PRE-FABRICATED INFLUENT SAMPLER ENCLOSURE (43 22 70). EQUIPMENT LAYOUT WITHIN ENCLOSURE TO BE CONFIRMED DURING CONSTRUCTION. WALL MOUNT INTERIOR AND EXTERIOR EQUIPMENT PER ENCLOSURE MANUFACTURER RECOMMENDATIONS.
- 2 AUTOMATIC SAMPLER (43 22 70). SAMPLER SHALL PLUG INTO NEARBY RECEPTACLE DEDICATED FOR THIS PUMP.
- 3 PROVIDE 2-GANG BOX WITH SINGLE-GANG RECEPTACLE DEDICATED FOR USE WITH AUTOMATIC SAMPLER. MOUNT RECEPTACLE 48" A.F.F. LABEL RECEPTACLE "FOR USE WITH SAMPLER ONLY". PROVIDE WEATHERPROOF WHILE IN USE COVER. COORDINATE FINAL MOUNTING LOCATION DURING CONSTRUCTION TO MINIMIZE DISTANCE FROM SAMPLER.
- 4 ELECTRIC UNIT HEATER PROVIDED BY DIVISION 26. SEE MECHANICAL SCHEDULE FOR DETAILS.
- 5 PROVIDE DISCONNECT WITH LUGS CAPABLE OF TERMINATING CABLES FOR BOTH EUH-7 AND SE-PT1. SEE CABLE AND CONDUIT SCHEDULE FOR DETAILS.
- 6 PROVIDE A GASKETED FS-STYLE BOX WITH A GFCI RECEPTACLE AND CAST METAL WEATHERPROOF, IN-USE COVER. SEE PANELBOARD SCHEDULE FOR DETAILS.
- 7 PROVIDE 30A, 600V, NEMA 3R DISCONNECT SWITCH (26 28 18) MOUNTED ON STRUT TO EXTERIOR OF SAMPLER ENCLOSURE. COORDINATE EXACT MOUNTING LOCATION WITH ENGINEER PRIOR TO INSTALLATION.
- 8 PROVIDE COMBINATION PANEL-TRANSFORMER WALL MOUNTED ON STRUT TO EXTERIOR OF SAMPLER ENCLOSURE. PANEL-TRAN TO BE SQUARE-D MINI POWER-ZONE, 480V PRIMARY, 120/240V SECONDARY, 5KVA MINIMUM WITH BOLT ON BRANCH BREAKER CAPABILITIES OR APPROVED EQUAL. SEE RELATED PANEL SCHEDULE AND RELATED DETAIL FOR ADDITIONAL INFORMATION.

SHEET TITLE: DIVERSION MANHOLE SAMPLER ENCLOSURE PLAN AND DETAILS

CLIENT: CITY OF HILL CITY
HILL CITY, SOUTH DAKOTA

PREPARED BY: PGM
CHECKED BY: TNF
APPROVED BY: JLW

PROJECT NO: 12021-2023-005
DATE: JUNE 2026
ALT. PROJECT NO: N/A

SHEET DESIGNATOR: DVM
SHEET NO: E103

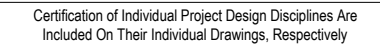
STATUS: FOR BIDDING

1 08-07-26 ADDENDUM No. 1

SYN DATE

HILL CITY WWTF IMPROVEMENTS
Advanced Engineering and Environmental Services, LLC www.ae2s.com

NOTE 1: CABLE INSTALLED BY CONTRACTOR WITHIN CONDUIT PER MANFUACTURER RECOMMENDATIONS.

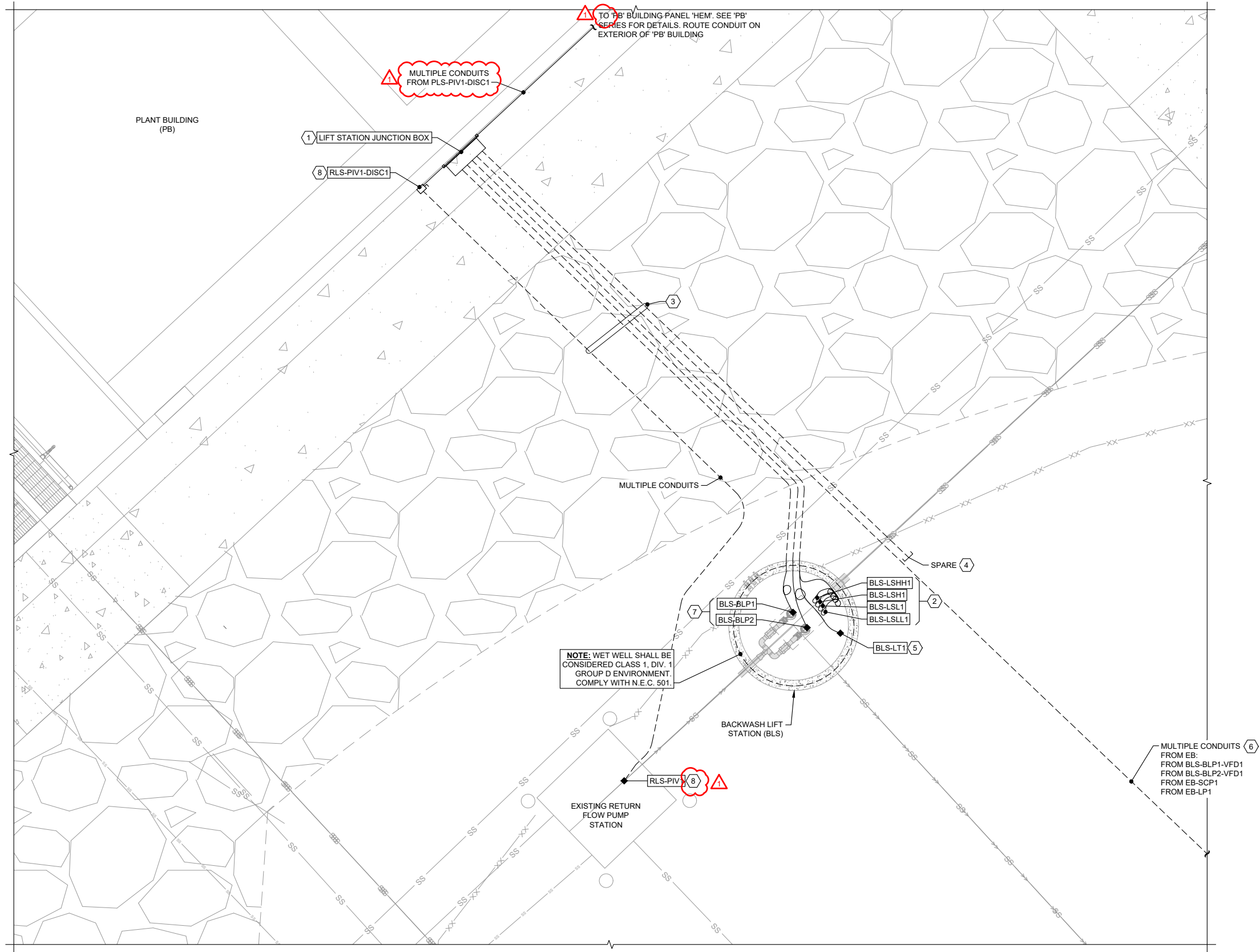


FOR BIDDING			
STATUS			
1	08-07-26	ADDENDUM No. 1	JLW
SYM	DATE		APPR

ALL CITY WWTF IMPROVEMENTS
Advanced Engineering and Environmental Services, LLC www.ae2s.com

SHEET TITLE:		CABLE AND CONDUIT SCHEDULE	
CLIENT:		CITY OF HILL CITY HILL CITY, SOUTH DAKOTA	PREPARED BY: PGM CHECKED BY: TNF APPROVED BY: JLW
PROJECT NO: 12021-2023-005	SHEET DESIGNATOR:	SHEET NO:	E801
DATE: JUNE 2026	DVM		
ALT. PROJECT NO: N/A			

File: C:\Users\Brendt\Documents\2021-2023\005 Hill City - WRF Improvement\Project Files\05 Electrical\AutoCAD\Plan Sheets\E SW Site Plan.dwg
Plotted By: Benny Brendt Date: Friday, August 7, 2026



1
E101
4' 0 4' 8'
ENLARGED BACKWASH LIFT STATION ELECTRICAL SITE PLAN



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



- CONSTRUCTION NOTES**
- 1 LIFT STATION JUNCTION BOX FURNISHED BY HARDWARE SYSTEMS INTEGRATOR (40 61 13) AND WALL MOUNTED ON STRUT STAND TO EXISTING BUILDING BY CONTRACTOR.
 - 2 PROVIDE FOUR (4) FLOAT SWITCHES (40 72 00) MOUNTED WITHIN WET WELL.
 - 3 CONTRACTOR TO INSTALL CIRCUITRY 24" BELOW GRADE VIA TRENCH. SAW CUT AND REPLACE CONCRETE AS NEEDED. MATCH EXISTING THICKNESS. REPAIR GRAVEL DRIVEWAY AS NEEDED. COORDINATE WITH STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
 - 4 SPARE CONDUIT, HAND CAP (NO GLUE). DRIVE STEEL ROD TO DENOTE LOCATION OF CONDUIT. SEE ONE-LINE DIAGRAM FOR DETAILS.
 - 5 SUBMERSIBLE LEVEL TRANSDUCER (40 72 00) INSTALLED WITHIN WET WELL. SEE BACKWASH LIFT STATION SECTION VIEW FOR DETAILS.
 - 6 CIRCUITRY SHALL BE BURIED AT 24" BELOW GRADE. CONDUIT SHALL BE SCHEDULE 80 PVC.
 - 7 SUBMERSIBLE PUMP LOCATED WITHIN WET WELL. SEE ONE-LINE DIAGRAM FOR DETAILS.
 - 8 ELECTRICALLY ACTUATED VALVE (40 27 20). PROVIDE ROTARY DISCONNECT, MINIMUM 30A RATING. VOLTAGE/POLES AS REQUIRED, WITH RED LOCKABLE HANDLE, NEMA 3/4"X NON-METALLIC ENCLOSURE EQUAL TO SQUARE D MD SERIES.

SHEET TITLE:
ENLARGED BACKWASH LIFT STATION SITE PLAN

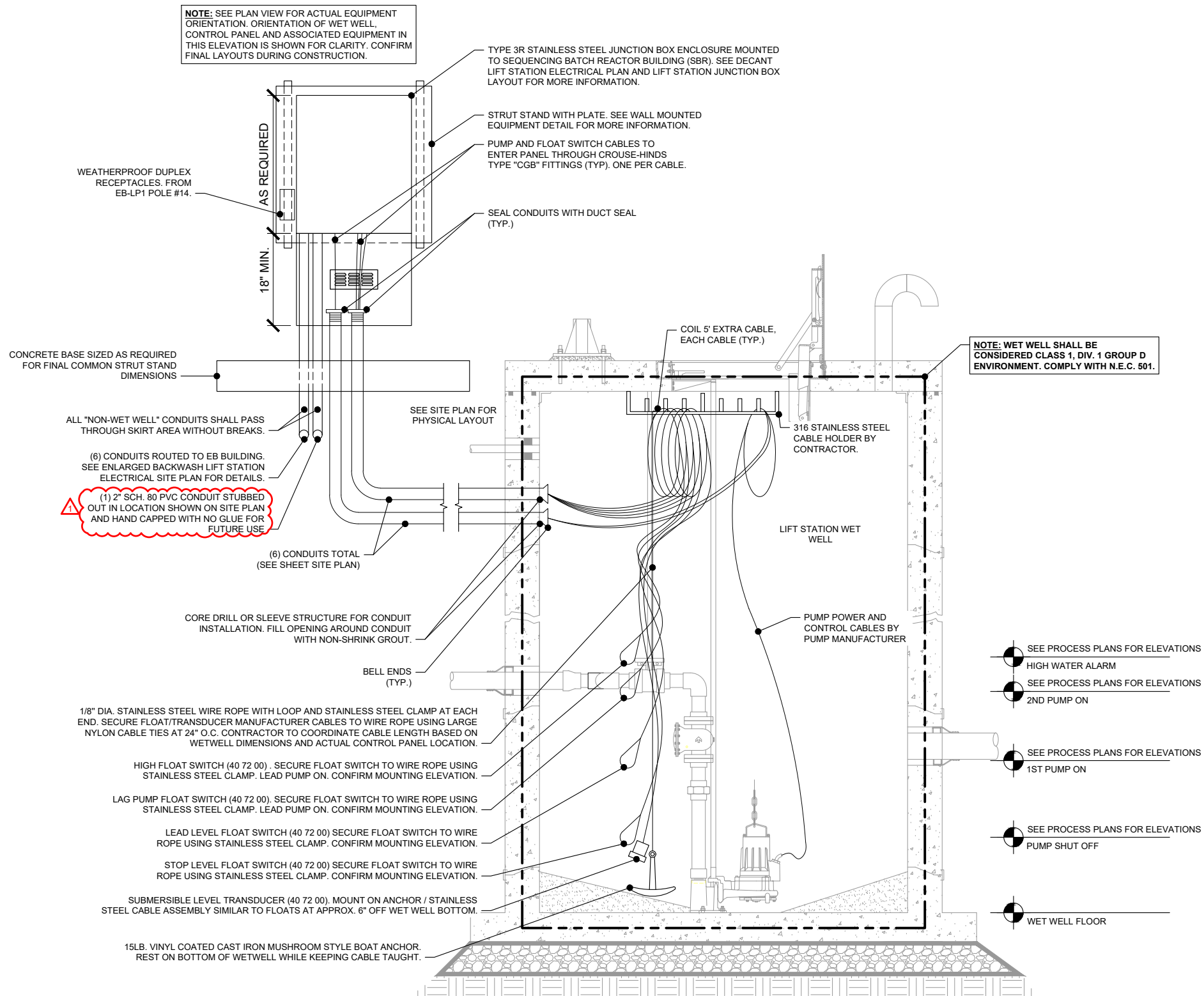
CLIENT:	CITY OF HILL CITY HILL CITY, SOUTH DAKOTA	PREPARED BY: IPS
		CHECKED BY: TNF
		APPROVED BY: J.L.W.
PROJECT NO: 12021-2023-005	SHEET DESIGNATOR:	SHEET NO:
DATE: JUNE 2026	BLS	E101
ALT. PROJECT NO: N/A		

STATUS: FOR BIDDING
1 08-07-26 ADDENDUM No. 1
SYM DATE

HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

File: C:\Users\Brendt\OneDrive\AES\2021-2023\Hill City - WRF Improvement\Project Files\06 Electrical\AutoCAD\Plan Sheets\EB SLS Plan and Section.dwg
Plotted By: Benny Brendt Date: Friday, August 7, 2026



1
E102 **BACKWASH LIFT STATION ELECTRICAL SECTION**

12" 6" 0 1' 2' 3'



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



STATUS: **FOR BIDDING**

1	SYN	DATE	APPR
1		08-07-26	JLW



HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

SHEET TITLE: BACKWASH LIFT STATION ELECTRICAL SECTION			
CLIENT: CITY OF HILL CITY HILL CITY, SOUTH DAKOTA		PREPARED BY: PGM CHECKED BY: TNF APPROVED BY: JLW	
PROJECT NO: 12021-2023-005 DATE: JUNE 2026 ALT. PROJECT NO: N/A	SHEET DESIGNATOR: BLS	SHEET NO: E102	

CABLE AND CONDUIT SCHEDULE - BLS SERIES														
TAGNAME	IDENTIFIER	CONDUIT		SERVICE RATING		CONDUCTORS						FROM	TO	NOTES
		QTY	SIZE			# OF	PARALLEL SETS				CABLE TYPE			
				CURRENT CARRYING			NTRL	GND						
				VOLT	PHASE				QTY	TYPE				SIZE
SPARE CONDUIT	A	1	2"	CONDUIT FOR FUTURE USE							LIFT STATION JUNCTION BOX	LOCATION SHOWN ON DRAWINGS	-	
LIFT STATION RECEPTACLE		1	1"	120	1	1	1	1/C	#12	#12	#12	EB-LP1	LIFT STATION RECEPTACLE	TYPE P2 NOTE #3
LIFT STATION JUNCTION BOX	A	1	1"	120	1	1	1	1/C	#12	#12	#12	EB-SCP1	LIFT STATION JUNCTION BOX	TYPE P2 NOTE #3
	B	1	1"	CONTROL	-	-	20	1/C	#14	-	-	EB-SCP1	LIFT STATION JUNCTION BOX	TYPE P1 NOTE #3
	C	1	1"	SIGNAL	-	-	1	2/C	#16	-	SHIELD	EB-SCP1	LIFT STATION JUNCTION BOX	TYPE S1 NOTE #3
BLS-BLP1	A	1	1"	480	3	1	1	3/C	#12	-	#12	BLS-BLP1-VFD1	LIFT STATION JUNCTION BOX	TYPE P4 NOTE #3
	B	1	2"	480	3	MANUFACTURER SUBMERSIBLE CABLE					LIFT STATION JUNCTION BOX	BLS-BLP1	-	
BLS-BLP2	A	1	1"	480	3	1	1	3/C	#12	-	#12	BLS-BLP2-VFD1	LIFT STATION JUNCTION BOX	TYPE P4 NOTE #3
	B	1	2"	480	3	MANUFACTURER SUBMERSIBLE CABLE					LIFT STATION JUNCTION BOX	BLS-BLP2	-	
WET WELL FLOAT SWITCHES		1	2"	CONTROL	-	MANUFACTURER SUBMERSIBLE CABLES					LIFT STATION JUNCTION BOX	WET WELL FLOAT SWITCHES	-	
BLS-LT1		1	1"	SIGNAL	-	MANUFACTURER SUBMERSIBLE CABLE					LIFT STATION JUNCTION BOX	BLS-LT1	-	

NOTE 1: COMPLY WITH NEC 501 FOR ALL CIRCUITRY INSTALLATIONS. SEE SITE PLAN AND SECTION VIEW FOR AREA CLASSIFICATIONS.
NOTE 2: SEE 'EB' SERIES CABLE AND CONDUIT SCHEDULE FOR ADDITIONAL VFD WIRING REQUIREMENTS.
NOTE 3: 'FROM' EQUIPMENT LOCATED IN ELECTRICAL BUILDING (EB).



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



STATUS: FOR BIDDING

1	08-07-26	ADDENDUM No. 1	DATE	SYN	APPR
---	----------	----------------	------	-----	------

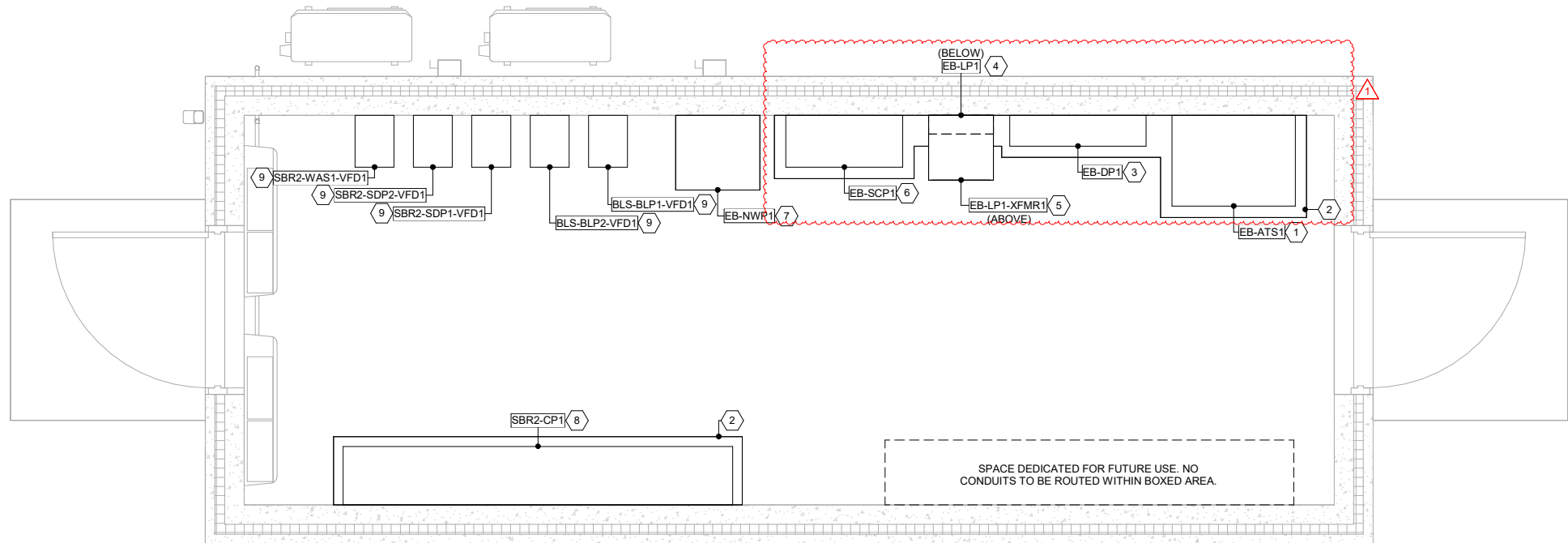


HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

CABLE AND CONDUIT SCHEDULE

CLIENT:		PREPARED BY: PGM	
CITY OF HILL CITY		CHECKED BY: TNF	
HILL CITY, SOUTH DAKOTA		APPROVED BY: JLW	
PROJECT NO: 12021-2023-005	SHEET DESIGNATOR: 	SHEET NO.	
DATE: JUNE 2026	 E801		
ALT. PROJECT NO: N/A			



1 GROUND LEVEL PROCESS ELECTRICAL PLAN VIEW
E101



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



STATUS FOR BIDDING



GENERAL NOTES

- SEE 'SW' SERIES AND ONE-LINE DIAGRAM FOR SYSTEM GROUNDING REQUIREMENTS.
- PROVIDE CAST-IN PLACE CONDUIT TO THE GREATEST EXTEND POSSIBLE WITHIN NEW BUILDINGS. COORDINATE WITH STRUCTURAL ENGINEER DURING CONSTRUCTION FOR FINAL STUB OUT LOCATIONS AND REQUIREMENTS.

CONSTRUCTION NOTES

- SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH (26 36 00) INSTALLED ON HOUSEKEEPING PAD. SEE ONE-LINE DIAGRAM FOR DETAILS.
- 3.5" CONCRETE HOUSEKEEPING PAD WITH 3/4" CHAMFERED EDGES. COORDINATE FINAL DIMENSIONS DURING CONSTRUCTION.
- DISTRIBUTION PANELBOARD (26 24 16) INSTALLED ON 3.5" HOUSEKEEPING PAD. SEE ONE-LINE DIAGRAM FOR DETAILS.
- LIGHTING PANEL (26 24 16) WALL MOUNTED WITH TOP OF PANEL AT 72" A.F.F. PROVIDE BENT ALUMINUM SKIRT FROM PANEL TO HOUSEKEEPING PAD TO CONCEAL CONDUIT ENDS AND ASSOCIATED WIRING. SEE ONE-LINE DIAGRAM, PANEL SCHEDULE, AND ASSOCIATED DETAIL.
- LIGHTING PANELBOARD TRANSFORMER (26 22 13) MOUNTED ABOVE PANELBOARD AS SHOWN. SEE RELATED DETAIL.
- FLOOR MOUNTED SCADA CONTROL PANEL (40 63 13) FURNISHED BY HARDWARE SYSTEMS INTEGRATOR AND INSTALLED BY CONTRACTOR ON 3.5" HOUSEKEEPING PAD. SEE CONTROL PANEL LAYOUT, IO SCHEDULE, AND NETWORK DIAGRAM FOR DETAILS.
- WALL MOUNTED NETWORK RACK (40 67 13) FURNISHED BY HARDWARE SYSTEMS INTEGRATOR AND INSTALLED BY CONTRACTOR. DOOR TO ENCLOSURE SHALL NOT SWING MORE THAN 90 DEGREES. SEE NETWORK RACK LAYOUT AND NETWORK DIAGRAM FOR DETAILS.
- SEQUENCING BATCH REACTOR CONTROL PANEL (46 50 16) TO BE FURNISHED AS PART OF THE SEQUENCING BATCH REACTOR PACKAGE. SEE ONE-LINE AND CABLE AND CONDUIT SCHEDULE FOR ADDITIONAL INFORMATION. FINAL DIMENSIONS TO BE COORDINATED DURING SUBMITTAL PHASE.
- VARIABLE FREQUENCY DRIVE (26 29 23) INSTALLED BY CONTRACTOR. PROVIDE FILTERING AS REQUIRED PER SPECIFICATION SECTION (26 29 23). FINAL LOCATION OF INPUT AND OUTPUT FILTERS TO BE DETERMINED DURING CONSTRUCTION. UTILIZE ENCLOSURE WITH EQUIPMENT AS SHOWN WITHIN ONE-LINE FOR BIDDING PURPOSES. SEE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

PROJECT TITLE:

SHEET TITLE:
GROUND LEVEL PROCESS ELECTRICAL PLAN VIEW

CLIENT: CITY OF HILL CITY
HILL CITY, SOUTH DAKOTA

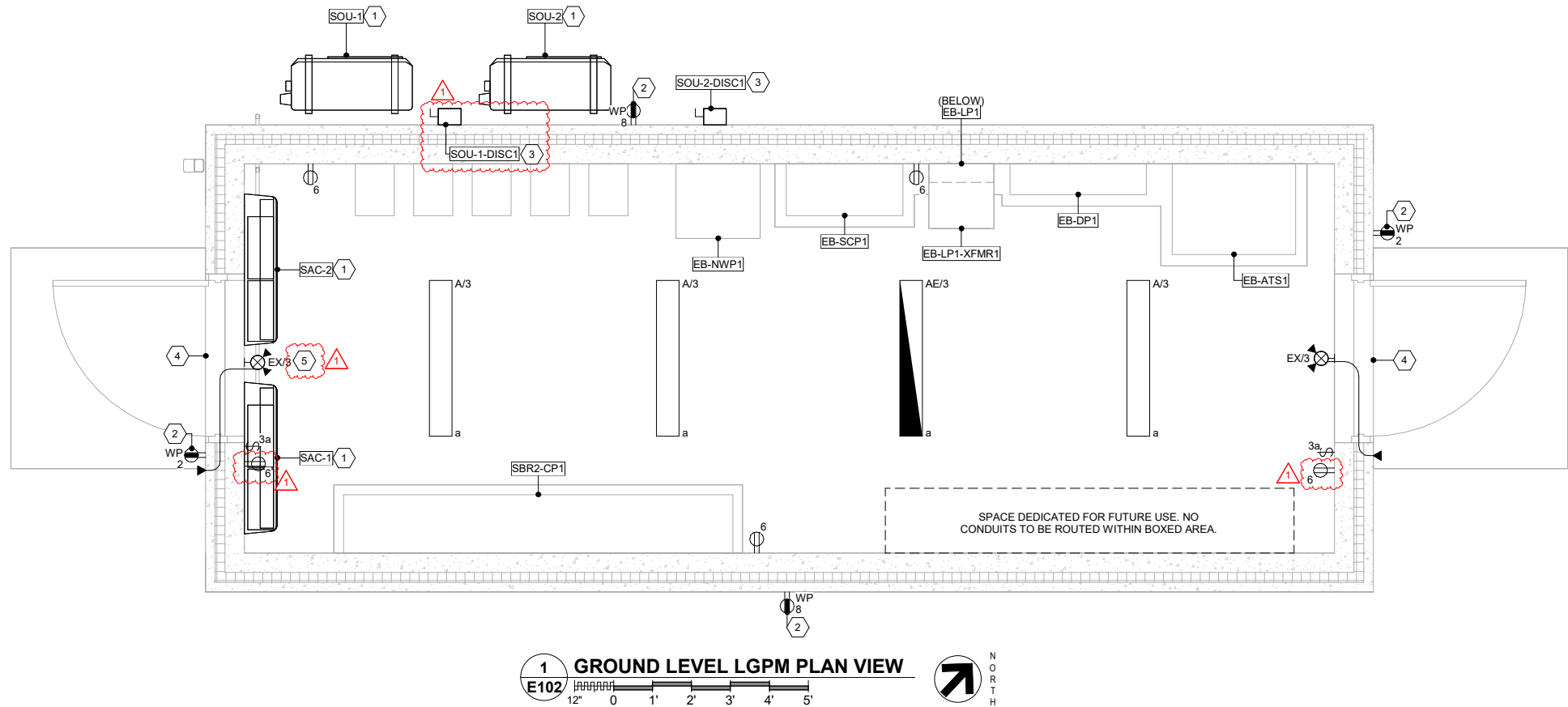
PREPARED BY: TED
CHECKED BY: TNF
APPROVED BY: JLW

PROJECT NO: 12101-2023-005
DATE: JUNE 2026
ALT PROJECT NO: N/A

SHEET DESIGNATOR: EB
SHEET NO: E101

HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



STATUS FOR BIDDING

SYM	DATE	DESCRIPTION	APPR
1	08-07-26	ADDENDUM No. 1	JLW



GENERAL NOTES

1. ALL EQUIPMENT SHALL BE MOUNTED AT 48" A.F.F. OR GRADE, UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES

- 1 MECHANICAL EQUIPMENT PROVIDED BY DIVISION 23 AND CIRCUITED BY DIVISION 26. SEE THE MECHANICAL EQUIPMENT SCHEDULE, PANELBOARD SCHEDULE, AND CABLE AND CONDUIT SCHEDULE FOR DETAILS.
- 2 PROVIDE A GASKETED FS-STYLE BOX WITH A GFCI RECEPTACLE AND CAST METAL WEATHERPROOF, IN-USE COVER. SEE PANELBOARD SCHEDULE FOR DETAILS.
- 3 CONTRACTOR TO PROVIDE A DISCONNECT SWITCH (26 28 18) WALL MOUNTED 48" ABOVE GRADE. SEE MECHANICAL SCHEDULE AND ONE-LINE DIAGRAM FOR DETAILS.
- 4 PROVIDE CONDUIT FOR FUTURE EXTERIOR LIGHT INSTALLATION FROM EB-LP1. STUB CONDUIT THROUGH WALL 1'-0" ABOVE DOOR. HAND CAP CONDUIT NO GLUE.
- 5 MOUNT LIGHT MINIMUM OF 9'-8" OR HIGHER TO AVOID MECHANICAL EQUIPMENT INTERFERENCE. PROVIDE PROVISIONS FOR MOUNTING FROM CEILING AS REQUIRED TO AVOID MECHANICAL UNITS IF WALL MOUNTED IS NOT ADEQUATE.

HILL CITY WWTf IMPROVEMENTS

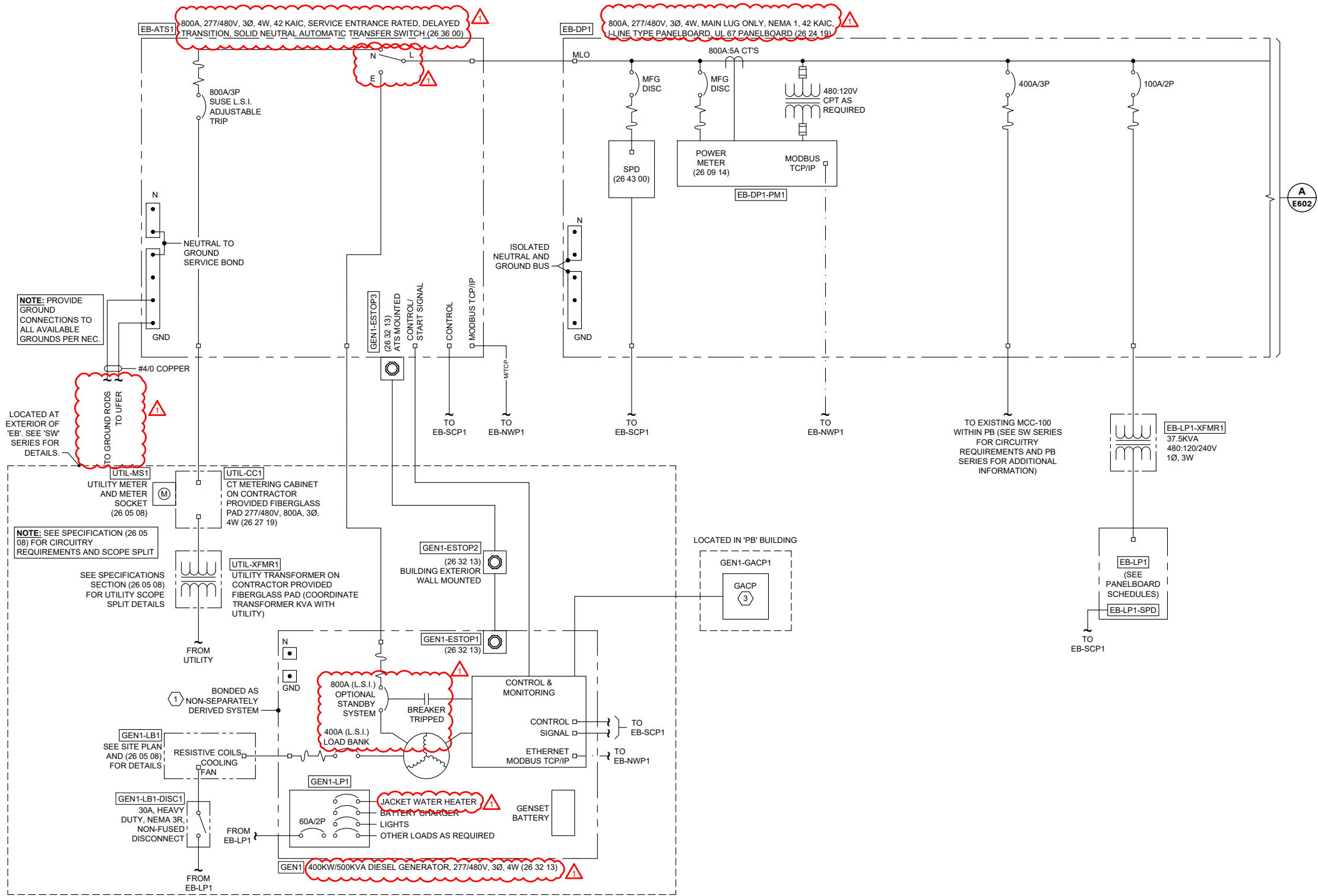
Advanced Engineering and Environmental Services, LLC www.ae2s.com

PROJECT TITLE:

SHEET TITLE: **GROUND LEVEL LGPM PLAN**

CLIENT:	CITY OF HILL CITY HILL CITY, SOUTH DAKOTA	PREPARED BY: CAT
		CHECKED BY: TNF
		APPROVED BY: JLW
PROJECT NO: 12101-2023-005	SHEET DESIGNATOR:	SHEET NO:
DATE: JUNE 2026	EB	E102
ALT PROJECT NO: N/A		

File: C:\Users\Bennett\OneDrive\AES\2021-2023\105 Hill City - WRF Improvement\Project Files\06 Electrical\Main\Plat Sheets\EB-Various One-Line Diagrams.dwg
Printed By: Benny Bennett Date: Friday, August 7, 2026



1 ONE-LINE DIAGRAM
E601



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



CONSTRUCTION NOTES

- CONFIRM GENERATOR IS BONDED CORRECTLY PRIOR TO GENERATOR STARTUP.
- GENERATOR ANNUNCIATOR CONTROL PANEL FURNISHED WITH THE GENERATOR AND INSTALLED BY THE CONTRACTOR ON THE WALL. SEE THE ELECTRICAL DRAWINGS FOR LOCATION.

ONE-LINE DIAGRAM

CLIENT:	CITY OF HILL CITY HILL CITY, SOUTH DAKOTA	PREPARED BY: PGM
		CHECKED BY: TNF
		APPROVED BY: JLV
PROJECT NO: 12021-2023-005	SHEET DESIGNATOR: EB	SHEET NO: E601
DATE: JUNE 2026		
ALT. PROJECT NO: N/A		

STATUS: FOR BIDDING

1 08-07-26 ADDENDUM No. 1

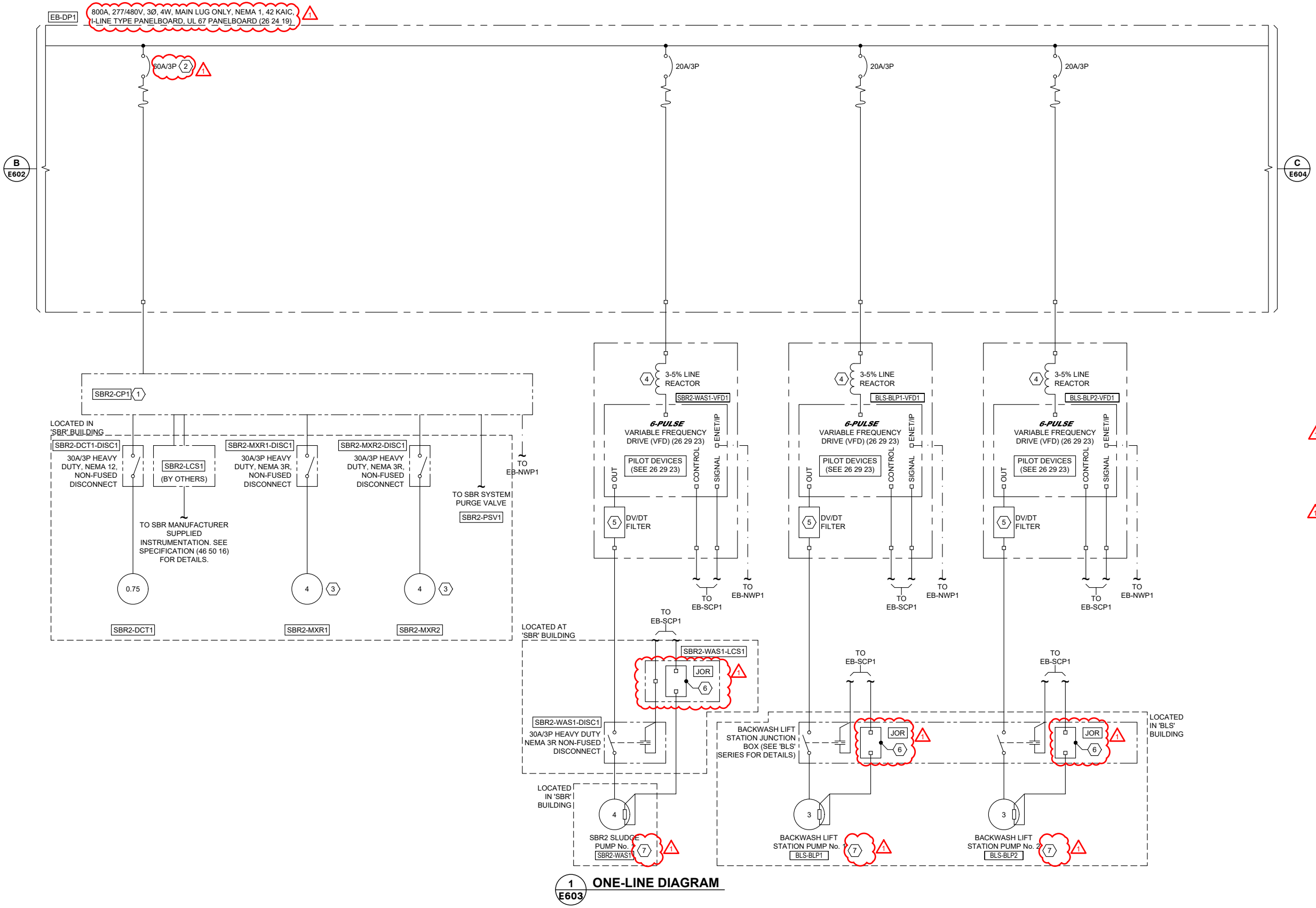
SYN DATE

APPR

HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

File: C:\Users\Brendt\Documents\2021-2023\2021-2023\2021-2023\Hill City - WRF Improvement\Project Files\06 Electrical\Misc\Plan Sheets\EB-Various One-Line Diagrams.dwg
Plotted By: Brendt Berndt Date: Friday, August 7, 2026



1 ONE-LINE DIAGRAM
E603



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively

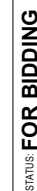
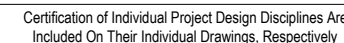


- CONSTRUCTION NOTES**
- SEQUENCING BATCH REACTOR SYSTEM CONTROL PANEL FURNISHED BY SBR SYSTEMS SUPPLIER. SEE SPECIFICATION SECTION (46 50 16) FOR DETAILS.
 - FINAL BREAKER RATINGS TO BE DETERMINED DURING SUBMITTAL PHASE. BREAKER SIZED PER AVAILABLE SUPPLIER INFORMATION AT TIME OF DESIGN. PROVIDE ONE (1) SPARE BREAKER OF SAME SIZE WITHIN EB-DP1 ONCE FINAL RATING IS DETERMINED.
 - INTEGRAL MOTOR THERMAL / SEAL SENSORS FURNISHED BY SBR SUPPLIER AND CIRCUITED BY CONTRACTOR. COORDINATE FINAL REQUIREMENTS WITH SBR SUPPLIER DURING SUBMITTAL PHASE.
 - SEE SPECIFICATION SECTION (26 24 23) FOR INPUT LINE REACTOR REQUIREMENTS.
 - SEE SPECIFICATION SECTION (26 24 23) FOR OUTPUT FILTER REQUIREMENTS.
 - 120VAC PUMP SAVER MODULE PROVIDED BY PUMP SUPPLIER.
 - MOTOR IS A NON-NEMA SUBMERSIBLE THAT MAY DRAW OVER NEMA CURRENT. CONFIRM MOTOR AMPACITY AND MODIFY DESIGN AS REQUIRED TO ACCOMMODATE PUMP REQUIREMENTS AT NO ADDITIONAL COST TO OWNER.

SHEET TITLE: ONE-LINE DIAGRAM			
CLIENT: CITY OF HILL CITY HILL CITY, SOUTH DAKOTA		PREPARED BY: PGM CHECKED BY: TNF APPROVED BY: JLW	
PROJECT NO: 12021-2023-005 DATE: JUNE 2026 ALT. PROJECT NO: N/A	SHEET DESIGNATOR: EB	SHEET NO: E603	

STATUS: FOR BIDDING
1 08-07-26 ADDENDUM No. 1
SYN DATE

HILL CITY WWTF IMPROVEMENTS
Advanced Engineering and Environmental Services, LLC www.ae2s.com



- ## HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

SHEET TITLE:

ONE-LINE DIAGRAM

CLIENT:

CITY OF HILL CITY
HILL CITY, SOUTH DAKOTA

PREPARED BY: DCM

CHECKED BY: TNE

APPROVED BY: JLW

PROJECT NO: 12021-2023-005

DATE: JUNE 2026

SHEET DESIGNATOR

ALT. PROJECT NO: N/A

EB

SHEET NO	
----------	--

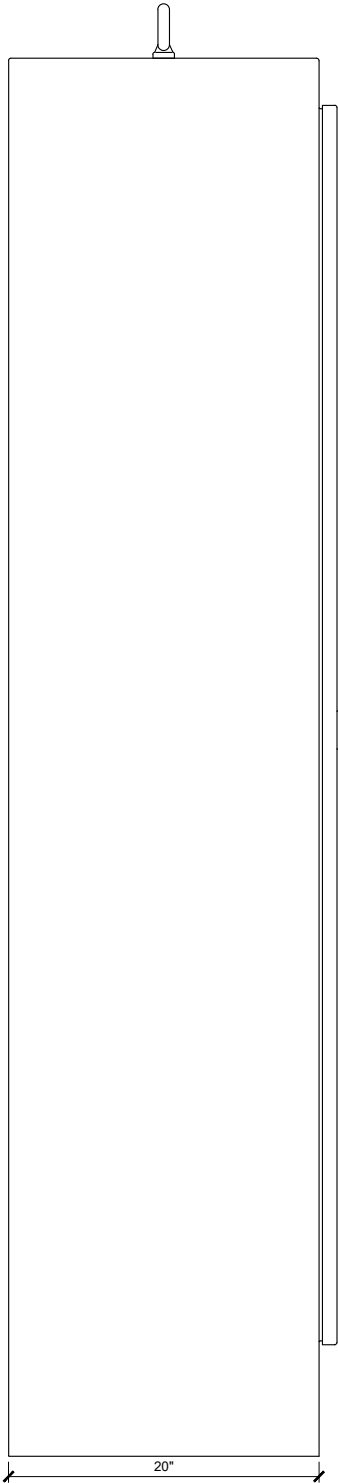
E604

File: C:\Users\Brendt\Documents\2021-2023\Hill City - WWTF Improvements\Project Files\06 Electrical\Accessories\EB-SCP1 Panel.dwg
Printed By: Benny Brendt Date: Friday, August 7, 2026

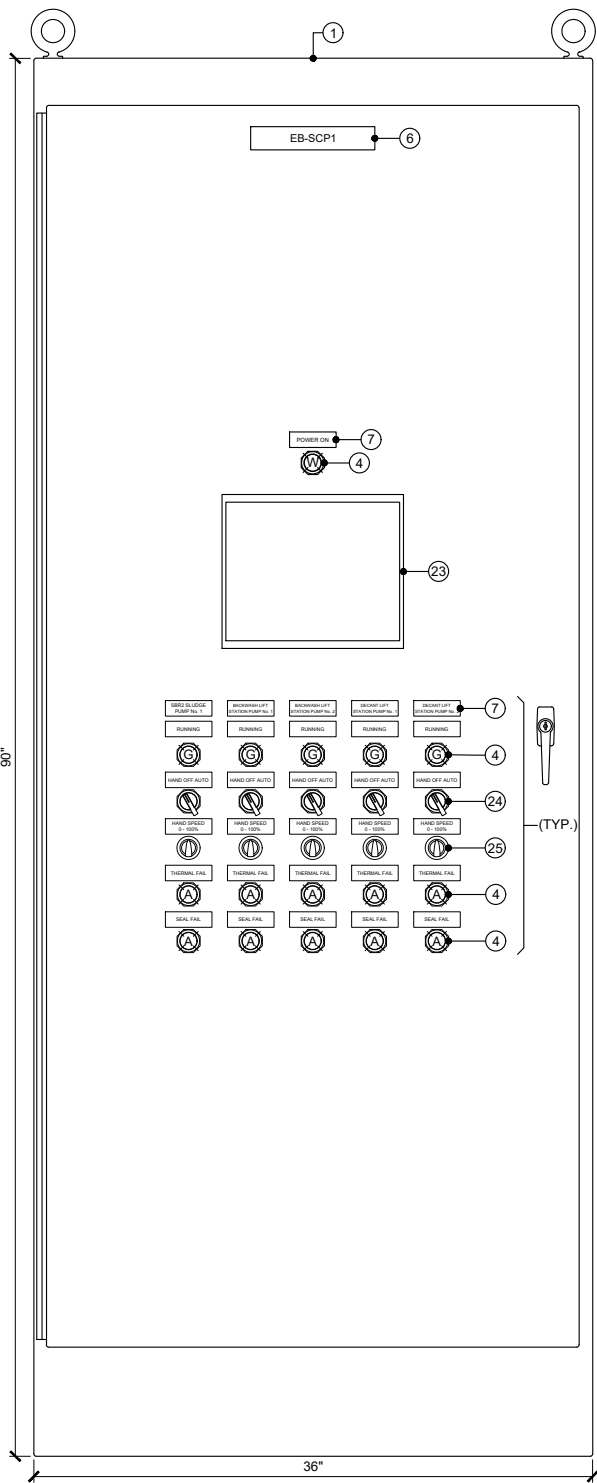
PARTS LIST	
MARK	DESCRIPTION
1	WALL MOUNT ENCLOSURE
2	SUB-PANEL
3	ALLEN BRADLEY PLC (SEE PLC I/O SCHEDULE)
4	30.5mm, LED PANEL LIGHT, COLOR AS NOTED
5	LIGHT PACKAGE, LED, DOOR SWITCH
6	1.5" X 8" BLACK NAMEPLATE WITH WHITE LETTERING (0.5" TEXT)
7	1" X 3" BLACK NAMEPLATE WITH WHITE LETTERING (0.25" TEXT)
8	WIREWAY W/COVER, SIZED TO FIT
9	ZINC PLATED, CHROMATED STEEL, 35mm X 7.5mm DIN RAIL

10	SURGE PROTECTION/LIGHTNING PROTECTION
11	DIN RAIL MOUNTED CIRCUIT BREAKER(S)
12	GENERAL PURPOSE BLADE BASE RELAY
13	20 AMP GFCI RECEPTACLE
14	120VAC/24VDC POWER SUPPLY
15	GENERAL PURPOSE TERMINAL BLOCKS (ASSOCIATED END BARRIERS, END STOPS, SEPARATION PLATES, ETC.), FUSE TERMINALS AND FUSES W/BLOWN FUSE INDICATOR (ANALOG INPUTS - SEE TYPICAL WIRING SCHEMATICS)
16	GENERAL PURPOSE TERMINAL BLOCKS (ASSOCIATED END BARRIERS, END STOPS, SEPARATION PLATES, ETC.), FUSE TERMINALS AND FUSES W/BLOWN FUSE INDICATOR (ANALOG OUTPUTS - SEE TYPICAL WIRING SCHEMATICS)
17	GENERAL PURPOSE TERMINAL BLOCKS (ASSOCIATED END BARRIERS, END STOPS, SEPARATION PLATES, ETC.), FUSE TERMINALS AND FUSES W/BLOWN FUSE INDICATOR (DIGITAL INPUTS - SEE TYPICAL WIRING SCHEMATICS)

18	GENERAL PURPOSE TERMINAL BLOCKS, SCREW CONNECTION, (ASSOCIATED END BARRIERS, END STOPS, SEPARATION PLATES, ETC.) (RELAY OUTPUTS - SEE TYPICAL WIRING SCHEMATICS)
19	GROUND BUSS BAR
20	ETHERNET SWITCH
21	UNINTERRUPTIBLE POWER SUPPLY
22	UNINTERRUPTIBLE POWER SUPPLY RECEPTACLE
23	OPERATOR INTERFACE
24	30.5mm, 3 POSITION SELECTOR SWITCH, MAINTAINED
25	30.5mm POTENTIOMETER
26	GENERAL PURPOSE TERMINAL BLOCKS, SCREW CONNECTION, (ASSOCIATED END BARRIERS, END STOPS, SEPARATION PLATES, ETC.)

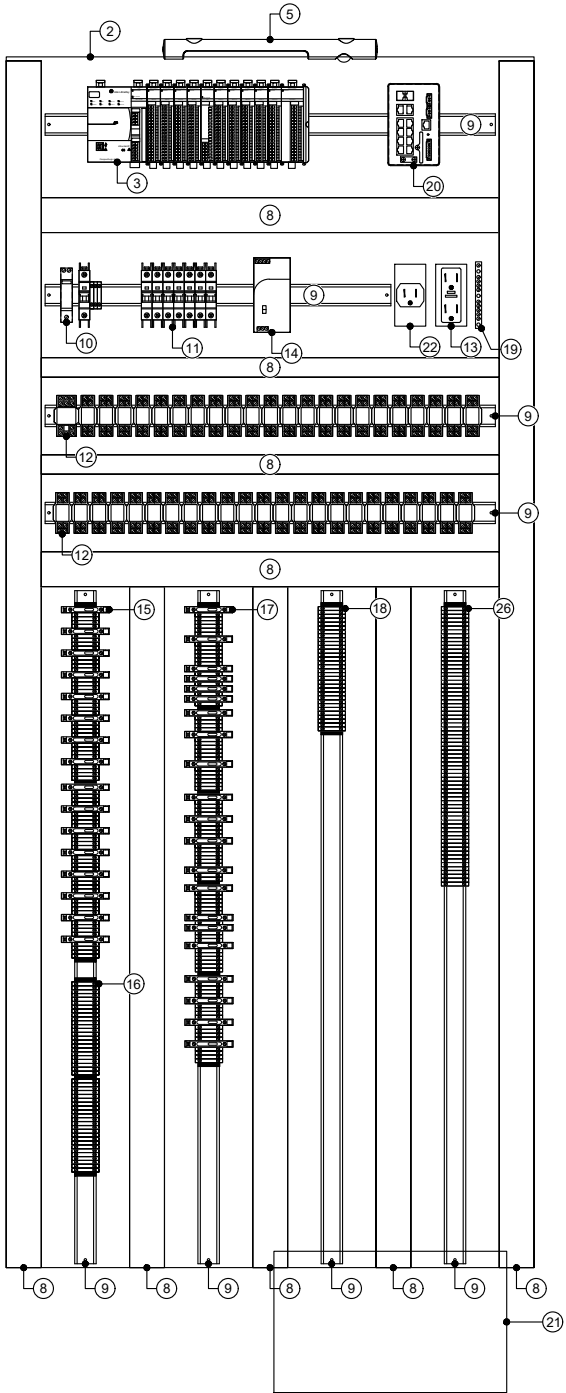


SIDE VIEW



ENCLOSURE LAYOUT

1 CONTROL PANEL LAYOUT
E606 EB-SCP1



SUB-PANEL LAYOUT



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



CONTROL PANEL NOTES

1. NEMA TYPE 12, 14 GAUGE STEEL WALL MOUNT ENCLOSURE WITH SUB PANEL
2. SINGLE DOOR HINGED ENCLOSURE
3. APPROXIMATE DIMENSIONS: H: 90", W: 36", D: 20"
4. PROVIDE A COMPLETE WORKING SYSTEM WITH ALL ASSOCIATED CABLES, CONNECTORS, FASTENERS, ETC.
5. PANEL TO BE UL 508A LISTED
6. SUB-PANEL LAYOUT IS TO BE USED AS A GENERAL LAYOUT. EXACT DIMENSIONS, COMPONENT QUANTITIES AND EXACT LAYOUT TO BE DETERMINED BY THE SYSTEMS INTEGRATOR.

STATUS: FOR BIDDING

1 08-07-26 ADDENDUM No. 1
SYM DATE

HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

SHEET TITLE: CONTROL PANEL LAYOUT

CLIENT:	CITY OF HILL CITY HILL CITY, SOUTH DAKOTA	PREPARED BY: CAT
PROJECT NO: 12021-2023-005	SHEET DESIGNATOR: EB	CHECKED BY: TNF
DATE: JUNE 2026	SHEET NO: E606	APPROVED BY: J.L.W.
ALT. PROJECT NO: N/A		



AES[®]
2

Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively

TUES. FOR BIDDING			
	08-07-26	ADDENDUM No. 1	JLW
M	DATE		APPR



HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

SHEET TITLE:		a.	
VARIOUS PANEL SCHEDULES			
CLIENT:		PREPARED BY: CAT	
CITY OF HILL CITY		CHECKED BY: TNF	
HILL CITY, SOUTH DAKOTA		APPROVED BY: JLW	
PROJECT NO: 12021-2023-005	SHEET DESIGNATOR:	SHEET NO.	
DATE: JUNE 2026	EB	E608	
ALT. PROJECT NO: N/A			

Plotted By: Barry Berndt Date: Friday, August 7, 2026
File: C:\Users\BBarndt\OneDrive\CAD\Drawings\2021-2023\0608 Hill City - WRF Improvement\Project Files\06 Electrical\Autocad\Plan Sheets\EB Cable and Conduit Schedule.dwg

CABLE AND CONDUIT SCHEDULE - EB SERIES															
TAGNAME	IDENTIFIER	CONDUIT		SERVICE RATING		CONDUCTORS						FROM	TO	NOTES	
		QTY	SIZE			# OF	PARALLEL SETS				NTRL			GND	CABLE TYPE
							CURRENT CARRYING								
				QTY	TYPE		SIZE								
UTIL-XFMR1		2	6"	CONDUITS INSTALLED BY CONTRACTOR FOR UTILITY USE						UTILITY		UTIL-XFMR1	-		
UTIL-CC1		2	3-1/2"	277/480	3	2	3	1/C	#500	#500	-	UTIL-XFMR1	UTIL-CC1	TYPE P2 NOTE 1	
UTIL-MS1		1	1-1/4"	CONDUITS INSTALLED BY CONTRACTOR FOR UTILITY USE						UTIL-XFMR1	UTIL-MS1	NOTE 1			
EB-ATS1	A	2	3-1/2"	277/480	3	2	3	1/C	#500	#500	-	UTIL-CC1	EB-ATS1	TYPE P2	
	B	1	3/4"	CONTROL	-	-	16	1/C	#14	-	-	EB-SCP1	EB-ATS1	TYPE P1	
	C	1	3/4"	DATA	-	-	1	CAT 6 SHIELDED	-	-	-	EB-NWP1	EB-ATS1	TYPE D3	
GEN1	A	2	3-1/2"	277/480	3	2	3	1/C	#500	#500	#1/0	GEN1	EB-ATS1	TYPE P2	
	B	1	3/4"	CONTROL	-	-	8	1/C	#14	-	-	EB-ATS1	GEN1	TYPE P1	
	C	1	1"	CONTROL	-	-	20	1/C	#14	-	-	EB-SCP1	GEN1	TYPE P1	
	D	1	1"	SIGNAL	-	-	2	2/C	#16	-	SHIELD	EB-SCP1	GEN1	TYPE S1	
	E	1	3/4"	DATA	-	-	1	CAT 6 SHIELDED	-	-	-	EB-NWP1	GEN1	TYPE D3	
	F	1	1-1/2"	FURNISHED BY GENERATOR MANUFACTURER (26 32 13) INSTALLED BY CONTRACTOR						GEN1	GEN1-GACP1 (LCOATED IN 'PB')	-			
	G	1	3/4"	240	1	1	2	1/C	#6	-	#10	EB-LP1	GEN1	TYPE P2	
GEN1-LB1	A	1	3-1/2"	277/480	3	1	3	1/C	#500	#500	#3	GEN1	GEN1-LB1	TYPE P2	
	B	1	3/4"	120	1	1	1	1/C	#12	#12	#12	EB-LP1	GEN1-LB1	TYPE P2	
	C	1	1"	SIGNAL	-	-	3	2/C	#16	-	SHIELD	EB-LP1	GEN1-LB1	TYPE S1	
GEN1	A	1	3/4"	CONTROL	-	-	2	1/C	#14	-	-	GEN1-ESTOP1 (INTEGRAL TO UNIT)	GEN1-ESTOP2 (EB EXTERIOR)	TYPE P1	
	B	1	3/4"	CONTROL	-	-	2	1/C	#14	-	-	GEN1-ESTOP2 (EB EXTERIOR)	GEN1-ESTOP3 (ATS MOUNTED)	TYPE P1	
EB-DP1	A	2	3-1/2"	277/480	3	2	3	1/C	#500	#500	#1/0	EB-ATS1	EB-DP1	TYPE P1	
	B	1	3/4"	CONTROL	-	-	2	1/C	#14	-	-	EB-DP1-SPD1	EB-SCP1	TYPE P1	
	C	1	3/4"	DATA	-	-	1	CAT 6 SHIELDED	-	-	-	EB-DP1-PM1	EB-NWP1	TYPE D3	
EB-LP1	A	1	1"	480	1	1	2	1/C	#3	-	#8	EB-DP1	EB-LP1-XFMR1	TYPE P1	
	B	1	1-1/2"	120/240	1	1	2	1/C	#1/0	#1/0	#6	EB-LP1-XFMR1	EB-LP1	TYPE P1	
	C	1	3/4"	CONTROL	-	-	2	1/C	#14	-	-	EB-LP1-SPD1	EB-LP1	TYPE P1	
SBR2-CP1	A	1	1"	480	3	1	3	1/C	#6	-	#10	EB-DP1	SBR2-CP1	TYPE P1	
	B	1	3/4"	DATA	-	-	1	CAT 6 SHIELDED	-	-	-	EB-NWP1	SBR2-CP1	TYPE D3	
SBR2-WAS1-VFD1	A	1	3/4"	480	3	1	3	1/C	#12	-	#12	EB-DP1	SBR2-WAS1-VFD1	TYPE P1	
	B	1	3/4"	CONTROL	-	-	12	1/C	#14	-	-	EB-SCP1	SBR2-WAS1-VFD1	TYPE P1	
	C	1	1"	SIGNAL	-	-	2	2/C	#16	-	SHIELD	EB-SCP1	SBR2-WAS1-VFD1	TYPE S1	

CABLE AND CONDUIT SCHEDULE - EB SERIES															
TAGNAME	IDENTIFIER	CONDUIT		SERVICE RATING		# OF	CONDUCTORS						FROM	TO	NOTES
		QTY	SIZE				PARALLEL SETS				NTRL	GND			CABLE TYPE
				CURRENT CARRYING											
				QTY	TYPE		SIZE								
	D	1	3/4"	DATA	-	-	1	CAT 6 SHIELDED	-	-	-	EB-NWP1	SBR2-WAS1-VFD1	TYPE D3	
BLS-BLP1-VFD1	A	1	3/4"	480	3	1	3	1/C	#12	-	#12	EB-DP1	BLS-BLP1-VFD1	TYPE P1	
	B	1	3/4"	CONTROL	-	-	12	1/C	#14	-	-	EB-SCP1	BLS-BLP1-VFD1	TYPE P1	
	C	1	1"	SIGNAL	-	-	2	2/C	#16	-	SHIELD	EB-SCP1	BLS-BLP1-VFD1	TYPE S1	
	D	1	3/4"	DATA	-	-	1	CAT 6 SHIELDED	-	-	-	EB-NWP1	BLS-BLP1-VFD1	TYPE D3	
BLS-BLP2-VFD1	A	1	3/4"	480	3	1	3	1/C	#12	-	#12	EB-DP1	BLS-BLP2-VFD1	TYPE P1	
	B	1	3/4"	CONTROL	-	-	12	1/C	#14	-	-	EB-SCP1	BLS-BLP2-VFD1	TYPE P1	
	C	1	1"	SIGNAL	-	-	2	2/C	#16	-	SHIELD	EB-SCP1	BLS-BLP2-VFD1	TYPE S1	
	D	1	3/4"	DATA	-	-	1	CAT 6 SHIELDED	-	-	-	EB-NWP1	BLS-BLP2-VFD1	TYPE D3	
SBR2-SDP1-VFD1	A	1	1"	480	3	1	3	1/C	#6	-	#10	EB-DP1	SBR2-SDP1-VFD1	TYPE P1	
	B	1	3/4"	CONTROL	-	-	12	1/C	#14	-	-	EB-SCP1	SBR2-SDP1-VFD1	TYPE P1	
	C	1	1"	SIGNAL	-	-	2	2/C	#16	-	SHIELD	EB-SCP1	SBR2-SDP1-VFD1	TYPE S1	
	D	1	3/4"	DATA	-	-	1	CAT 6 SHIELDED	-	-	-	EB-NWP1	SBR2-SDP1-VFD1	TYPE D3	
SBR2-SDP2-VFD1	A	1	1"	480	3	1	3	1/C	#6	-	#10	EB-DP1	SBR2-SDP2-VFD1	TYPE P1	
	B	1	3/4"	CONTROL	-	-	12	1/C	#14	-	-	EB-SCP1	SBR2-SDP2-VFD1	TYPE P1	
	C	1	1"	SIGNAL	-	-	2	2/C	#16	-	SHIELD	EB-SCP1	SBR2-SDP2-VFD1	TYPE S1	
	D	1	3/4"	DATA	-	-	1	CAT 6 SHIELDED	-	-	-	EB-NWP1	SBR2-SDP2-VFD1	TYPE D3	

NOTE 1: COORDINATE WITH UTILITY FOR FINAL CONDUIT AND CONDUCTOR QUANTITIES AND SIZES.
NOTE 2: CIRCUITRY TERMIANTED AT LOADS LOCATED IN DIFFERENT BUILDINGS NOT SHOWN HERE. SEE OTHER SERIES DRAWINGS FOR DETAILS.



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



STATUS: FOR BIDDING

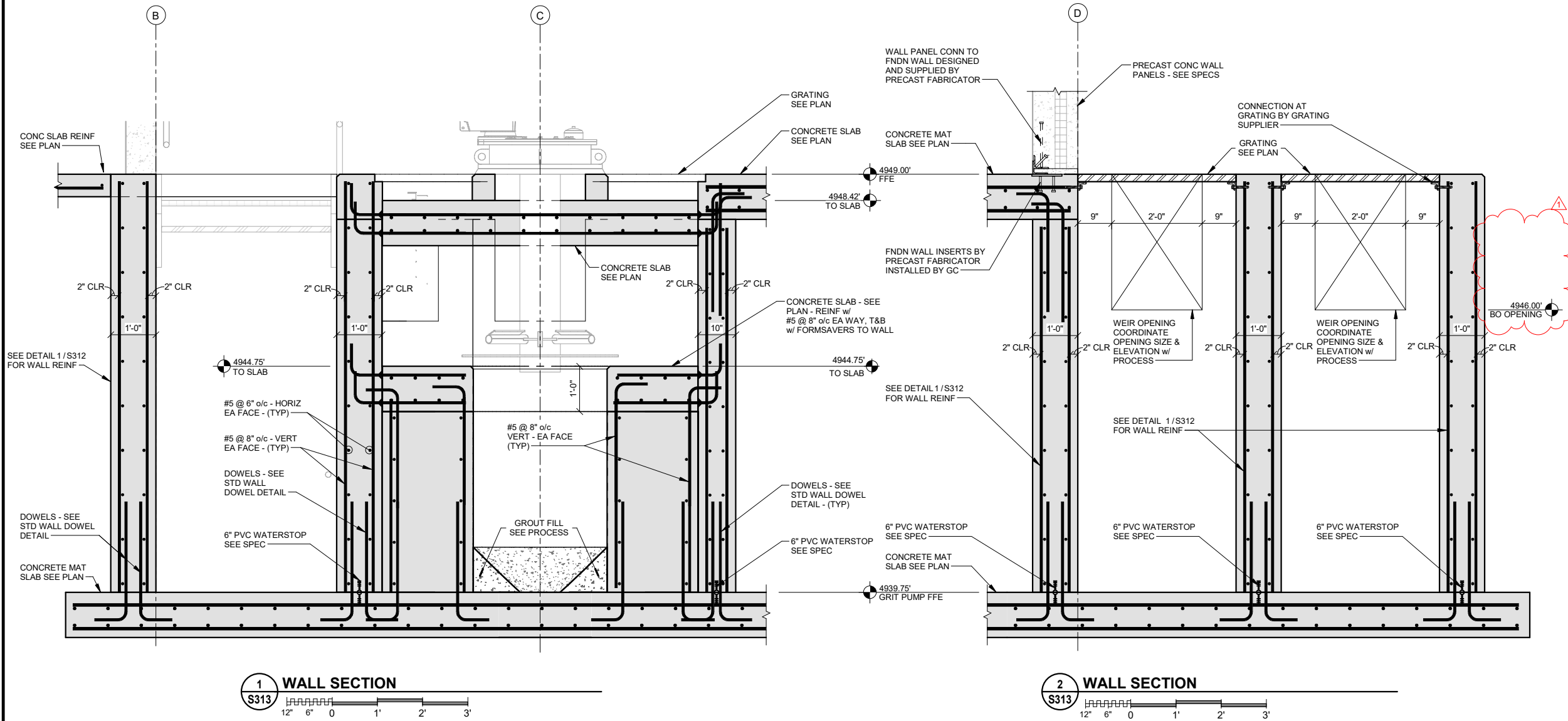
1	08-07-26	ADDENDUM No. 1	DATE	SYN	DATE	APP
---	----------	----------------	------	-----	------	-----

HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

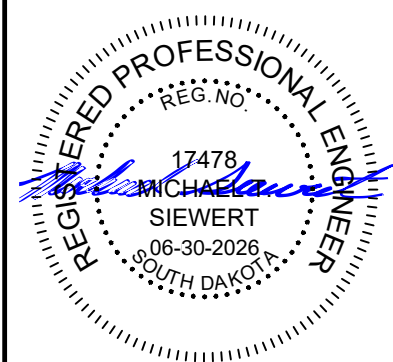
CABLE AND CONDUIT SCHEDULE

CLIENT:		CITY OF HILL CITY HILL CITY, SOUTH DAKOTA		PREPARED BY: CAT
PROJECT NO: 12021-2023-005		SHEET DESIGNATOR:		CHECKED BY: TNF
DATE: JUNE 2026		SHEET NO:		APPROVED BY: J.LW
ALT. PROJECT NO: N/A		EB		E801





Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



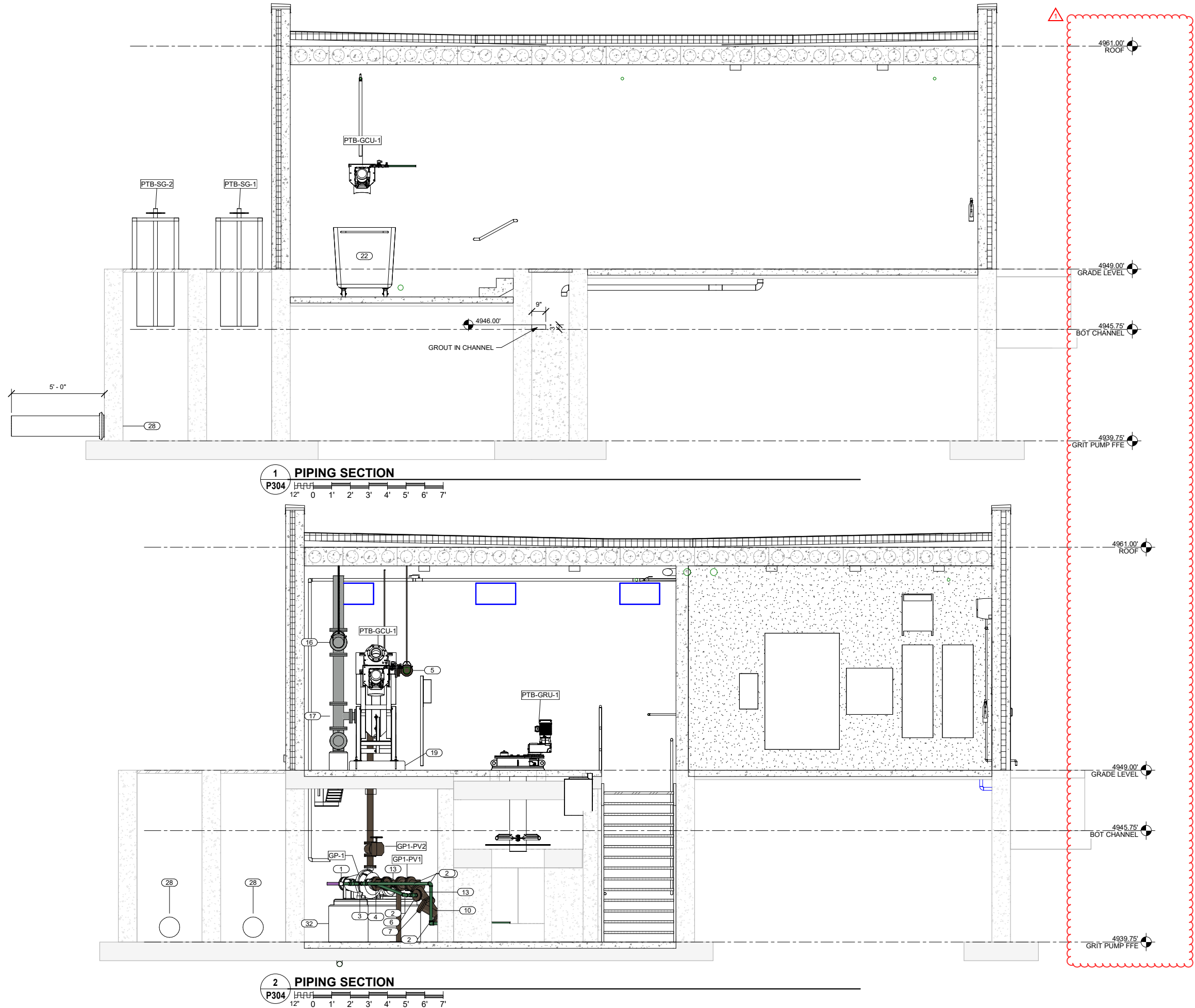


STATUS: FOR BIDDING	
REVISIONS	ADDENDUM No. 1
1	8/7/26
SYM	DATE
DESCRIPTION	
APPR	

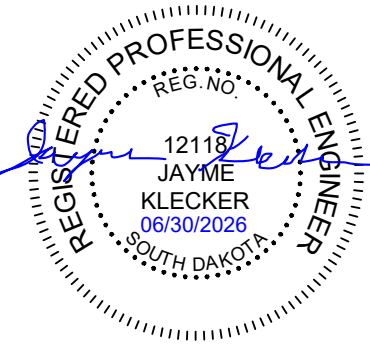
HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

SHEET TITLE: WALL SECTIONS		
CLIENT:	CITY OF HILL CITY HILL CITY, SOUTH DAKOTA	PREPARED BY: MS/NT
		CHECKED BY: JMG
		APPROVED BY: MS
PROJECT NO: 12021-2023-005	SHEET DESIGNATOR:	SHEET NO:
DATE: JUNE 2026	PTB	S313
ALT PROJECT NO:		



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively

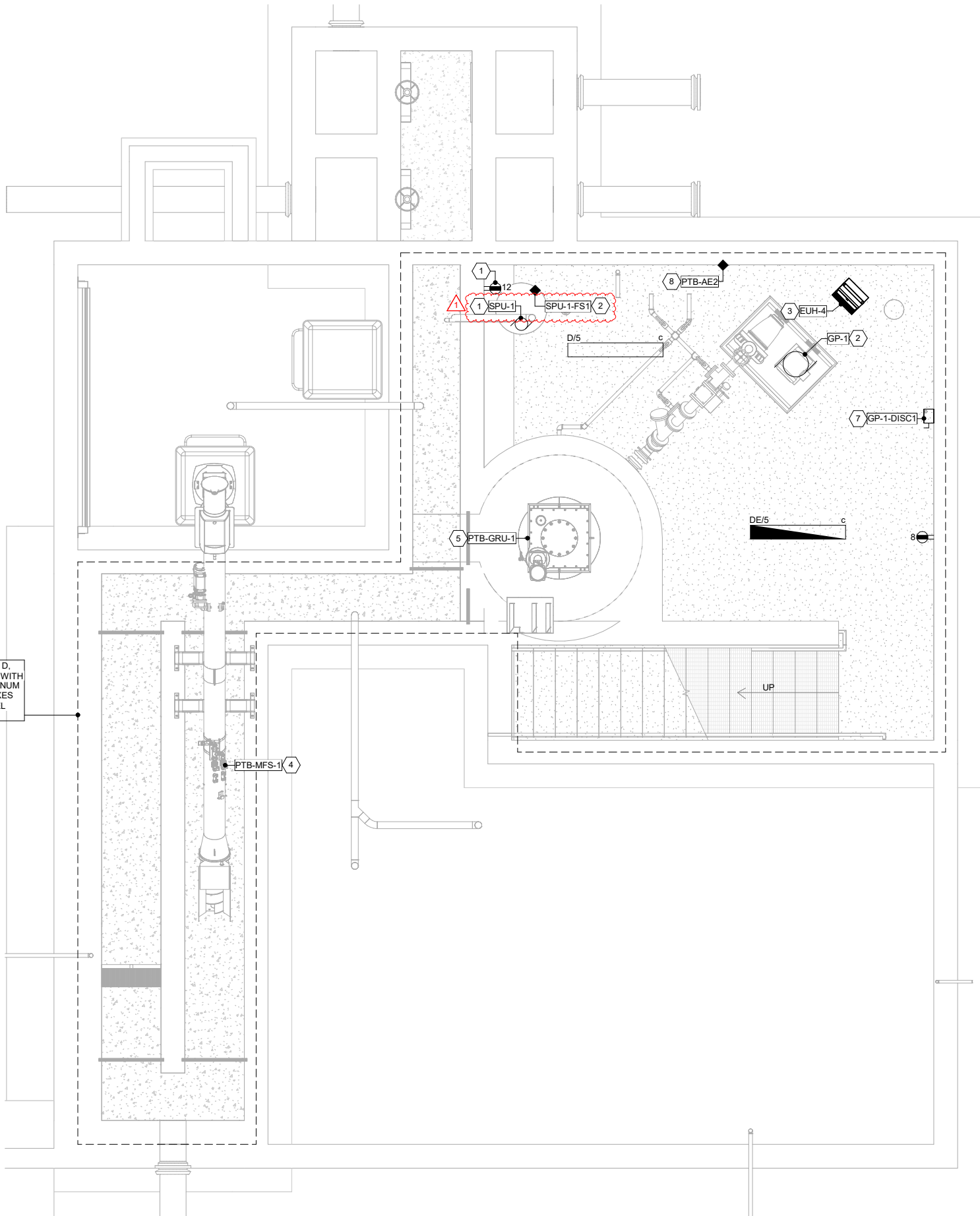


- PROCESS IMPROVEMENTS**
- 1 1 1/2" THD SS 45° BEND
 - 2 1 1/2" THD SS 90° BEND
 - 3 1 1/2" THD SS CROSS
 - 4 1 1/2" THD SS TEE
 - 5 3" FL DI 90° BEND
 - 6 3" x 1 1/2" DI COMPANION FLANGE
 - 7 4" DI BLIND FLANGE
 - 8 4" FL DI 45° BEND
 - 10 4" FL DI LATERAL WYE
 - 11 4" MJ DI 45° BEND
 - 13 4" x 3" FL DI TEE
 - 15 6" FL DI BASE BEND
 - 16 6" FL DI TEE
 - 17 6" x 4" FL DI TEE
 - 18 12" DI MJ PLUG
 - 19 CONCRETE EQUIPMENT BASE
 - 20 CONCRETE PIPE BASE
 - 22 GRIT DUMPSTER
 - 23 GRIT INLET RAMP, COORDINATE WITH GRIT MANUFACTURER
 - 24 HANGING PIPE SUPPORT
 - 27 MJ x MJ WALL PIPE - SEE PROCESS STANDARD DETAILS
 - 28 MJ x PE WALL PIPE - SEE PROCESS STANDARD DETAILS
 - 29 PIPE PENETRATION THROUGH GRATING. SEE PROCESS DETAILS
 - 30 PIPE SUPPORT. SEE DETAILS.
 - 31 PRESSURE GUAGE ASSEMBLY. NO SAMPLE TAP. SEE PROCESS DETAILS.
 - 32 PUMP BASE
 - 34 SLIDE GATE

SHEET TITLE: SECTIONS	
CLIENT: CITY OF HILL CITY HILL CITY, SOUTH DAKOTA	PREPARED BY: PWH CHECKED BY: ZJR APPROVED BY: JJK
PROJECT NO: 12021-2023-005 DATE: JUNE 2026 ALT PROJECT NO: 00000-0000	SHEET DESIGNATOR: PTB SHEET NO: P304

STATUS: FOR BIDDING

NOTE: CLASS 1, DIVISION 1, GROUP D, EXPLOSION PROOF AREA. COMPLY WITH NEC ARTICLE 501. USE RIGID ALUMINUM CONDUIT, FITTINGS, AND CAST BOXES AND ALL TYPE 316 STAINLESS STEEL SUPPORTING HARDWARE.



1 SUBGRADE LEVEL OVERALL ELECTRICAL PLAN
E101



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



STATUS FOR BIDDING



GENERAL NOTES

1. SEE CABLE AND CONDUIT SCHEDULE FOR ADDITIONAL INFORMATION.
2. ALL RECEPTACLES SHALL BE EXPLOSION PROOF (CLASS 1, DIV. 1/2) WITHIN RATED SPACES.
3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING SEAL OFFS AS REQUIRED BY NEC. SEE CLASSIFICATION SHEET FOR ADDITIONAL INFORMATION.

CONSTRUCTION NOTES

- 1 CORD AND PLUG SUMP PUMP WITH INTEGRAL FLOAT SWITCH PROVIDED BY DIVISION 23. UTILIZE 120V, 20A EXPLOSION PROOF RECEPTACLE RATED FOR C1D1 AREA. COORDINATE CORD AND PLUG TYPE DURING SUBMITTAL PHASE.
- 2 PROVIDE FLOOD SWITCH (40 72 00) 1" BELOW TOP OF FIBERGLASS SUMP BASIN.
- 3 ELECTRIC UNIT HEATER PROVIDED AND CIRCUITED BY DIVISION 26. SEE MECHANICAL EQUIPMENT SCHEDULE AND PANELBOARD SCHEDULE FOR DETAILS.
- 4 CYLINDRICAL PERFORATED PLATE SCREEN (46 21 33) PROVIDED BY CONTRACTOR. EQUIPMENT FURNISHED AS COMPLETE SYSTEM PER SPECIFICATION. SEE ONE-LINE DIAGRAM FOR DETAILS.
- 5 GRIT REMOVAL UNIT (46 23 00) FURNISHED AS PART OF COMPLETE GRIT REMOVAL SYSTEM AND INSTALLED BY CONTRACTOR. SEE ONE-LINE DIAGRAM FOR DETAILS.
- 6 GRIT PUMP (46 23 00) FURNISHED AS PART OF COMPLETE GRIT REMOVAL SYSTEM AND INSTALLED BY CONTRACTOR. SEE ONE-LINE DIAGRAM FOR DETAILS.
- 7 PROVIDE NEMA 7 DISCONNECT SWITCH (26 28 18) WALL MOUNTED 48" A.F.F. SEE ONE-LINE DIAGRAM FOR DETAILS.
- 8 COMBUSTIBLE GAS / H2S ANALYTICAL ANALYZER/GAS DETECTOR (40 76 00) FURNISHED BY HARDWARE SYSTEMS INTEGRATOR AND INSTALLED BY CONTRACTOR. SEE IO SCHEDULE, RELATED SCHEMATIC, AND RELATED DETAIL FOR MORE INFORMATION.

PROJECT TITLE:

SHEET TITLE: SUBGRADE LEVEL ELECTRICAL FLOOR PLAN

CLIENT: CITY OF HILL CITY HILL CITY, SOUTH DAKOTA		PREPARED BY: TED
		CHECKED BY: TNF
		APPROVED BY: JLW
PROJECT NO: 12021-2023-005	SHEET DESIGNATOR: PTB	SHEET NO: E101
DATE: JUNE 2026		
ALT PROJECT NO: N/A		

File: C:\Users\Brenda\Documents\AES\12021-2023-005 Hill City - WRF Improvements\Project Files\06-Electrical\Subcat\Plan Sheets\PTB Control Panel.dwg
Plotted By: Brenda Brendt Date: Friday, August 7, 2026

A

Rack / Slot	Point	Type	Tagname	Description	EGU Lo	EGU Hi	EGU Tag	Signal
RACK 0 SLOT 0 5069-AENTR				5069 COMPACT I/O ENET IP 2 PORT				
RACK 0 SLOT 1 5069-IA16	0	DI	MFS-1.YL	SCREEN RUNNING	OFF	RUNNING		120VAC
	1	DI	MFS-1.YA	SCREEN FAULT	ALARM	NORMAL		120VAC
	2	DI	MFS-1-LSH1.LAH	SCREEN CHAMBER HIGH LEVEL				120VAC
	3	DI		WIRED SPARE				120VAC
	4	DI	GRU-1.YL	GRIT REMOVAL UNIT RUNNING	OFF	RUNNING		120VAC
	5	DI	GRU-1.YA	GRIT REMOVAL UNIT FAULT	ALARM	NORMAL		120VAC
	6	DI	GCU-1.YL	GRIT CLASSIFIER UNIT RUNNING	OFF	RUNNING		120VAC
	7	DI	GCU-1.YA	GRIT REMOVAL UNIT FAULT	ALARM	NORMAL		120VAC
	8	DI	GP-1.YL	GRIT PUMP RUNNING	OFF	RUNNING		120VAC
	9	DI	GP-1.YA	GRIT PUMP FAULT	ALARM	NORMAL		120VAC
	10	DI	GCU-1.YL	GRIT CLASSIFIER UNIT RUNNING	OFF	RUNNING		120VAC
	11	DI		WIRED SPARE				120VAC
	12	DI		WIRED SPARE				120VAC
	13	DI		WIRED SPARE				120VAC
	14	DI		WIRED SPARE				120VAC
	15	DI	SPU-1-FS1.LA	SUMP BASIN FLOODED	ALARM	NORMAL		120VAC
RACK 0 SLOT 2 5069-IA16	0	DI	PTB-AIT1.LAH1	PTB SCREENING RM No. 1 GAS CONCENTRATION LEVEL WARNING	ALARM	NORMAL		120VAC
	1	DI	PTB-AIT1.LAH2	PTB SCREENING RM No. 1 GAS CONCENTRATION LEVEL ALARM	ALARM	NORMAL		120VAC
	2	DI	PTB-AIT1.YA	PTB SCREENING RM No. 1 GAS CONCENTRATION FAULT	ALARM	NORMAL		120VAC
	3	DI		WIRED SPARE				120VAC
	4	DI	PTB-AIT2.LAH1	PTB SCREENING RM No. 2 GAS CONCENTRATION LEVEL WARNING	ALARM	NORMAL		120VAC
	5	DI	PTB-AIT2.LAH2	PTB SCREENING RM No. 2 GAS CONCENTRATION LEVEL ALARM	ALARM	NORMAL		120VAC
	6	DI	PTB-AIT2.YA	PTB SCREENING RM No. 2 GAS CONCENTRATION FAULT	ALARM	NORMAL		120VAC
	7	DI		WIRED SPARE				120VAC
	8	DI		WIRED SPARE				120VAC
	9	DI		WIRED SPARE				120VAC
	10	DI		WIRED SPARE				120VAC
	11	DI		WIRED SPARE				120VAC
	12	DI		WIRED SPARE				120VAC
	13	DI		WIRED SPARE				120VAC
	14	DI		WIRED SPARE				120VAC
	15	DI		WIRED SPARE				120VAC
RACK 0 SLOT 2 5069-FPD				FIELD POTENTIAL DISTRIBUTOR				
RACK 0 SLOT 3 5069-IF8	0	AI	PTB-AIT1.AI1	PTB SCREENING RM No. 1 H2S CONCENTRATION	0	XXX	PPM	24VDC
	1	AI	PTB-AIT1.AI2	PTB SCREENING RM No. 1 METHANE CONCENTRATION	0	XXX	PPM	24VDC
	2	AI	PTB-AIT2.AI2	PTB SCREENING RM No. 2 H2S CONCENTRATION	0	XXX	PPM	24VDC
	3	AI	PTB-AIT2.AI2	PTB SCREENING RM No. 2 METHANE CONCENTRATION	0	XXX	PPM	24VDC
	4	AI		WIRED SPARE				24VDC
	5	AI		WIRED SPARE				24VDC
	6	AI		WIRED SPARE				24VDC
	7	AI		WIRED SPARE				24VDC

1

E602

PLC IO SCHEDULE

PTB-SCP1



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



STATUS: FOR BIDDING

1	08-07-26	ADDENDUM No. 1	DATE	SYN	APPR
---	----------	----------------	------	-----	------



HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

PROJECT TITLE:

SHEET TITLE:

CONTROL PANEL IO SCHEDULE

CLIENT:	CITY OF HILL CITY HILL CITY, SOUTH DAKOTA	PREPARED BY: PGM
		CHECKED BY: TNF
		APPROVED BY: JLW
PROJECT NO: 12021-2023-005	SHEET DESIGNATOR:	SHEET NO:
DATE: JUNE 2026	PTB	E602
ALT. PROJECT NO: N/A		

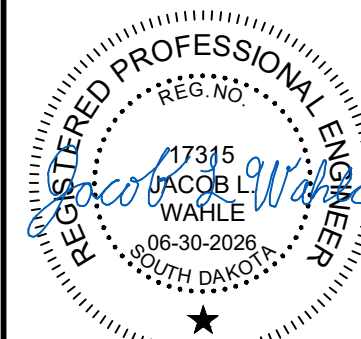
Plotted By: Barry Berndt Date: Friday, August 7, 2026
File: C:\Users\BarryB\Documents\12021-2023\12021-2023-005 Hill City - WRF Improvement\Project Files\06-Electrical\Autocad\Pin Sheet E-PTB-Variou Schedules.dwg

PANEL SCHEDULE												
PANEL: PTB-DP1		LOCATION: PTB BLDG		VOLTS: 480 / 277		PHASE: 3		W: 4				
AMP MAIN BKR: 200A		AIC RATING: 22,000		MOUNT: SURFACE		FED FROM: EB-DP1						
CIRCUIT DESCRIPTION	LOAD VA	CKT. BKR.	P	CKT. No.	PH.	CKT. No.	P	CKT. BKR.	LOAD VA	CIRCUIT DESCRIPTION		
FINE SCREEN CONTROL PANEL (MFS-1-CP1)	887	40	3	1	A	2	3	50	5930	GRIT REMOVAL SYSTEM CONTROL PANEL (GRS-CP1)		
	887			3	B	4			5930			
	887			5	C	6			5930			
EUH-1	3333	20	3	7	A	8	3	15	1667	EUH-2		
	3333			9	B	10			1667			
	3333			11	C	12			1667			
EUH-3	1000	15	3	13	A	14	3	15	1667	EUH-4		
	1000			15	B	16			1667			
	1000			17	C	18			1667			
MAU-1	1245	15	3	19	A	20	3	15	831	DVM-SLG1		
	1245			21	B	22			831			
	1245			23	C	24			831			
WH-1	8000	40	3	25	A	26	3	30	-	SPARE		
	8000			27	B	28			-			
	8000			29	C	30			-			
SPARE	-	20	3	31	A	32	3	20	-	SPARE		
	-			33	B	34			-			
	-			35	C	36			-			
SE-DISC1 (EUH-7 & SE-PT1)	1533	30	3	37	A	38	3	15	-	SPARE		
	1533			39	B	40			-			
	1000			41	C	42			-			
PTB-LP1-XFMR1	5770	70	2	43	A	44	3	BY MFG	-	SPD		
	5770			45	B	46			-			
SPACE	-	-	1	47	C	48			-			
CONNECTED TOTALS:					NOTES:							
KVA 89.29					- ALL CIRCUIT BREAKERS SHALL BE LOCKABLE IN THE OFF POSITION - PROVIDE SPD AS SPECIFIED IN SECTION 26 43 00							
AMPS 107.40												
Phase A 115.0 Amps												
Phase B 115.0 Amps												
Phase C 92.3 Amps												

PANEL SCHEDULE													
PANEL: PTB-LP1		LOCATION: PTB BLDG		VOLTS: 240 / 120		PHASE: 1		W: 3					
AMP MAIN BKR: 100A		AIC RATING: 22,000		MOUNT: SURFACE		FED FROM: PTB-LP1-XFMR1							
CIRCUIT DESCRIPTION	LOAD VA	CKT. BKR.	P	CKT. No.	PH.	CKT. No.	P	CKT. BKR.	LOAD VA	CIRCUIT DESCRIPTION			
LIGHTING - EXTERIOR (FUTURE)	28	20	1	1	A	2	1	20	900	RECEPTACLES - EXTERIOR			
LIGHTING - ELEC & MECH ROOM	234	20	1	3	B	4	1	20	900	RECEPTACLES - ELEC & MECH ROOM			
LIGHTING - PTB INTERIOR	400	20	1	5	A	6	1	20	720	RECEPTACLES - UPPER LEVEL			
EF-1	560	20	1	7	B	8	1	20	180	RECEPTACLES - LOWER LEVEL			
L-1	50	20	1	9	A	10	1	20	360	RECEPTACLES - CONVENIENCE			
PTB-SCP1	500	20	1	11	B	12	1	20	180	RECEPTACLES - SPU-1			
SPARE	-	20	1	13	A	14	1	20	-	SPARE			
SPARE	-	20	1	15	B	16	1	20	-	SPARE			
SPARE	-	20	1	17	A	18	1	20	-	SPARE			
SPARE	-	20	1	19	B	20	1	20	-	SPARE			
SPARE	-	20	1	21	A	22	1	20	-	SPARE			
SPARE	-	20	1	23	B	24	1	20	-	SPARE			
SPARE	-	20	1	25	A	26	1	20	-	SPARE			
SPARE	-	20	1	27	B	28	1	20	-	SPARE			
SPARE	-	20	1	29	A	30	1	20	-	SPARE			
SPARE	-	20	1	31	B	32	1	20	-	SPARE			
SPARE	-	20	1	33	A	34	2	35	3264	SOU-3 / SAC-3			
SPARE	-	20	1	35	B	36			3264				
SPACE FOR SPD	-	-	2	37	A	38	2	BY MFG	-	SPD			
	-			39	B	40			-				
CONNECTED TOTALS: KVA11.54 AMPS48.08 Phase A47.7Amps Phase B48.5Amps					NOTES: - ALL CIRCUIT BREAKERS SHALL BE LOCKABLE IN THE OFF POSITION - PROVIDE SPD AS SPECIFIED IN SECTION 26 43 00								



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively





STATUS: **FOR BIDDING**

1 08-07-26 ADDENDUM No. 1

SYM DATE

APPR

SHEET TITLE: **VARIOUS SCHEDULES**

CLIENT: **CITY OF HILL CITY**
HILL CITY, SOUTH DAKOTA

PREPARED BY: PGM
CHECKED BY: TNF
APPROVED BY: J.LW

PROJECT NO: 12021-2023-005
DATE: JUNE 2026
ALT. PROJECT NO: N/A

SHEET DESIGNATOR: **PTB**

SHEET NO: **E603**

HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

File: C:\Users\Brenda\Documents\2021-2022-2023-2024 Hill City - WRF Improvements\Project Files\Electrical\Accessories\Sheet EPTB Cable and Conduit Schedule.dwg
Printed By: Brenda\Brenda Date: Friday, August 7, 2026



CABLE AND CONDUIT SCHEDULE - PTB SERIES														
TAGNAME	IDENTIFIER	CONDUIT		SERVICE RATING		CONDUCTORS						FROM	TO	NOTES
		QTY	SIZE			OL #	PARALLEL SETS			NTRL	GND			CABLE TYPE
				VOLT	PHASE		QTY	TYPE	SIZE					
PTB-DP1	A	1	2"	277/480	3	1	3	1/C	#3/0	#3/0	#6	EB-DP1	PTB-DP1	TYPE P2
	B	1	3/4"	CONTROL	-	-	2	1/C	#14	-	-	PTB-SCP1	EB-DP1-SPD	TYPE P1
PTB-LP1	A	1	1"	480	1	1	2	1/C	#4	-	#8	PTB-DP1	PTB-LP1-XFMR1	TYPE P1
	B	1	1-1/4"	120/240	1	1	2	1/C	#3	#3	#8	PTB-LP1-XFMR1	PTB-LP1	TYPE P1
	C	1	3/4"	CONTROL	-	-	2	1/C	#14	-	-	PTB-SCP1	PTB-LP1-SPD	TYPE P1
PTB-SCP1	A	1	3/4"	120	1	1	1	1/C	#12	#12	#12	PTB-LP1	PTB-SCP1	TYPE P1
	B	1	3/4"	DATA	-	-	1	SM FBR-6 STR	-	-	-	EB-SCP1	PTB-SCP1	TYPE D2
MFS-1-CP1	A	1	3/4"	480	3	1	3	1/C	#8	-	#10	PTB-DP1	MFS-1-CP1	TYPE P1
	B	1	3/4"	DATA	-	-	1	CAT 6	-	-	-	PTB-SCP1	MFS-1-CP1	TYPE D4
MFS-1	A	1	3/4"	480	3	1	3	1/C	#12	-	#12	MFS-1-CP1	MFS-1-DISC1	TYPE P1
	B	1	3/4"	480	3	1	3	1/C	#12	-	#12	MFS-1-DISC1	MFS-1-JBOX1	TYPE P1
	C	1	3/4"	480	3	1	3	1/C	#12	-	#12	MFS-1-JBOX1	MFS-1	TYPE P1
	D	1	3/4"	CONTROL	-	-	2	1/C	#14	-	-	MFS-1-CP1	MFS-1-TSH1	TYPE P1
	E	1	3/4"	480	3	1	3	1/C	#12	-	#12	MFS-1-JBOX1	MFS-1	TYPE P1
MFS-1-LCS1	1	3/4"	CONTROL	-	-	12	1/C	#14	-	-	MFS-1-CP1	MFS-1-LCS1	TYPE P1	
MFS-1-SVJBOX1	A	1	3/4"	CONTROL	-	-	4	1/C	#14	-	-	MFS-1-CP1	MFS-1-SVJBOX1	TYPE P1
	B	PRE-WIRED BY MANUFACTURER										MFS-1-SVJBOX1	MFS-1-SV1	-
	C	PRE-WIRED BY MANUFACTURER										MFS-1-SVJBOX1	MFS-1-SV2	-
MFS-LSH1	A	1	3/4"	CONTROL	-	-	2	1/C	#14	-	-	MFS-1-CP1	MFS-LSH1-JBOX1	TYPE P1
	B	1	3/4"	CONTROL	-	-	2	1/C	#14	-	-	MFS-LSH1-JBOX1	MFS-LSH1	TYPE P1
MFS-LIT1	1	3/4"	SIGNAL	-	-	1	2/C	#16	-	SHIELD	MFS-1-CP1	MFS-LIT1	TYPE S1	
MFS-LIT2	1	3/4"	SIGNAL	-	-	1	2/C	#16	-	SHIELD	MFS-1-CP1	MFS-LIT2	TYPE S1	
GRS-CP1	A	1	1"	480	3	1	3	1/C	#6	-	#10	PTB-DP1	GRS-CP1	TYPE P1
	B	1	3/4"	DATA	-	-	1	CAT 6	-	-	-	PTB-SCP1	GRS-CP1	TYPE D4
GRU-1	A	1	3/4"	480	3	1	3	1/C	#12	-	#12	GRS-CP1	GRU-1-DISC1	TYPE P1
	B	1	3/4"	480	3	1	3	1/C	#12	-	#12	GRU-1-DISC1	GRU-1	TYPE P1
	C	1	3/4"	CONTROL	-	-	2	1/C	#14	-	-	GRS-CP1	GRU-1-TSH1	TYPE P1
GRU-1-LCS1	1	3/4"	CONTROL	-	-	12	1/C	#14	-	-	GRS-CP1	GRU-1-LCS1	TYPE P1	
GCU-1	A	1	3/4"	480	3	1	3	1/C	#12	-	#12	GRS-CP1	GCU-1-DISC1	TYPE P1
	B	1	3/4"	480	3	1	3	1/C	#12	-	#12	GCU-1-DISC1	GCU-1	TYPE P1
	C	1	3/4"	CONTROL	-	-	2	1/C	#14	-	-	GRS-CP1	GCU-1-TSH1	TYPE P1
GCU-1-LCS1	1	3/4"	CONTROL	-	-	10	1/C	#14	-	-	GRS-CP1	GCU-1-LCS1	TYPE P1	
GP-1	A	1	3/4"	480	3	1	3	1/C	#12	-	#12	GRS-CP1	GP-1-DISC1	TYPE P1
	B	1	3/4"	480	3	1	3	1/C	#12	-	#12	GP-1-DISC1	GP-1	TYPE P1
	C	1	3/4"	CONTROL	-	-	2	1/C	#14	-	-	GRS-CP1	GP-1-TSH1	TYPE P1

CABLE AND CONDUIT SCHEDULE - PTB SERIES														
TAGNAME	IDENTIFIER	CONDUIT		SERVICE RATING		CONDUCTORS					FROM	TO	NOTES	
		QTY	SIZE			OL #	PARALLEL SETS			NTRL			GND	CABLE TYPE
				VOLT	PHASE		QTY	TYPE	SIZE					
GAS DETECTION No. 1	A	1	3/4"	120	1	1	1	1/C	#12	#12	#12	PTB-SCP1	PTB-AIT1	TYPE P1
	B	1	1"	SIGNAL	-	-	2	2/C	#16	-	SHIELD	PTB-SCP1	PTB-AIT1	TYPE S1
	C	1	3/4"	CONTROL	-	-	6	1/C	#14	-	-	PTB-SCP1	PTB-AIT1	TYPE P1
	D	1	3/4"	SIGNAL	-	-	1	2/C	#16	-	SHIELD	PTB-SCP1	PTB-AE1	TYPE S1
	E	1	3/4"	SIGNAL	-	-	1	2/C	#16	-	SHIELD	PTB-SCP1	PTB-AE2	TYPE S1
GAS DETECTION No. 2	A	1	3/4"	120	1	1	1	1/C	#12	#12	#12	PTB-SCP1	PTB-AIT2	TYPE P1
	B	1	1"	SIGNAL	-	-	2	2/C	#16	-	SHIELD	PTB-SCP1	PTB-AIT2	TYPE S1
	C	1	3/4"	CONTROL	-	-	6	1/C	#14	-	-	PTB-SCP1	PTB-AIT2	TYPE P1
	D	1	3/4"	SIGNAL	-	-	1	2/C	#16	-	SHIELD	PTB-SCP1	PTB-AE3	TYPE S1
	E	1	3/4"	SIGNAL	-	-	1	2/C	#16	-	SHIELD	PTB-SCP1	PTB-AE4	TYPE S1
PTB-ALM1		1	3/4"	120	1	2	1	1/C	#12	#12	#12	PTB-SCP1	PTB-ALM1	TYPE P1
PTB-ALM2		1	3/4"	120	1	2	1	1/C	#12	#12	#12	PTB-SCP1	PTB-ALM2	TYPE P1
PTB-ALM3		1	3/4"	120	1	2	1	1/C	#12	#12	#12	PTB-SCP1	PTB-ALM3	TYPE P1
PTB-ALM4		1	3/4"	120	1	2	1	1/C	#12	#12	#12	PTB-SCP1	PTB-ALM4	TYPE P1
PTB-CS1		1	3/4"	CONTROL	-	2	2	1/C	#14	-	-	PTB-SCP1	PTB-CS1	TYPE P1
WH-1	A	1	3/4"	480	3	1	3	1/C	#8	-	#10	PTB-DP1	WH-1-DISC1	TYPE P1
	B	1	3/4"	480	3	1	3	1/C	#8	-	#10	WH-1-DISC1	WH-1	TYPE P1
EUH-1		1	3/4"	480	3	1	3	1/C	#12	-	#12	PTB-DP1	EUH-1	TYPE P1
EUH-2		1	3/4"	480	3	1	3	1/C	#12	-	#12	PTB-DP1	EUH-2	TYPE P1
EUH-3		1	3/4"	480	3	1	3	1/C	#12	-	#12	PTB-DP1	EUH-3	TYPE P1
EUH-4		1	3/4"	480	3	1	3	1/C	#12	-	#12	PTB-DP1	EUH-4	TYPE P1
SOU-3 / SAC-3	A	1	3/4"	240	1	1	2	1/C	#8	-	#10	PTB-DP1	SOU-3-DISC1	TYPE P2
	B	1	3/4"	240	1	1	2	1/C	#8	-	#10	SOU-3-DISC1	SOU-3	TYPE P2
	C	1	3/4"	240	1	1	2	1/C	#12	-	#12	SOU-3	SAC-3	TYPE P2
EF-1		1	3/4"	120	1	1	1	1/C	#12	#12	#12	PTB-LP1	EF-1	TYPE P2
L-1	A	1	3/4"	120	1	1	1	1/C	#12	#12	#12	PTB-LP1	L-1-DISC1	TYPE P1
	B	1	3/4"	120	1	1	1	1/C	#12	#12	#12	L-1-DISC1	L-1	TYPE P1



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



STATUS: FOR BIDDING

1	08-07-26	ADDENDUM No. 1
1	SYN	DATE
	DATE	DATE

HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

SHEET TITLE:

CABLE AND CONDUIT SCHEDULE

CLIENT:

CITY OF HILL CITY
HILL CITY, SOUTH DAKOTA

PREPARED BY: PGM

CHECKED BY: TNF

APPROVED BY: JLW

PROJECT NO: 12021-2023-005

DATE: JUNE 2026

ALT. PROJECT NO: N/A

SHEET DESIGNATOR:

PTB

SHEET NO:

E604

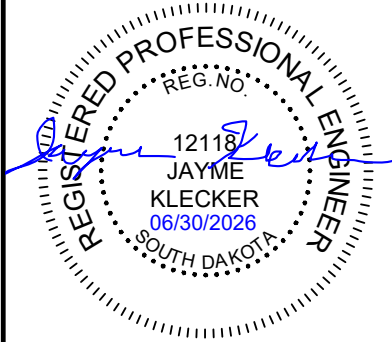
EQUIPMENT SCHEDULE					
TAG #	DESCRIPTION	TYPE	SPECIFICATION	FURNISHED BY	REMARKS
SBR2-DCT1	DECANTER				
SBR2-WAS1	SBR SLUDGE PUMP				

INSTRUMENT SCHEDULE					
TAG #	DESCRIPTION	TYPE	SPECIFICATION	FURNISHED BY	REMARKS

VALVE SCHEDULE								
TAG #	DESCRIPTION	VALVE SIZE	CONNECTION	TYPE	SPECIFICATION	OPERATOR	FURNISHED BY	REMARKS
SBR2-BFV2	BUTTERFLY VALVE	8"	WAFER	BUTTERFLY VALVE	40 27 20	MANUAL	CONTRACTOR	
SBR2-BLV1	PVC BALL VALVE	1"	SOCKET	BALL VALVE	46 50 16	SOLENOID	SBR MFG	



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



STATUS: FOR BIDDING

SYM	DATE	DESCRIPTION	APPR
1	08-07-26	ADDENDUM #1	JK

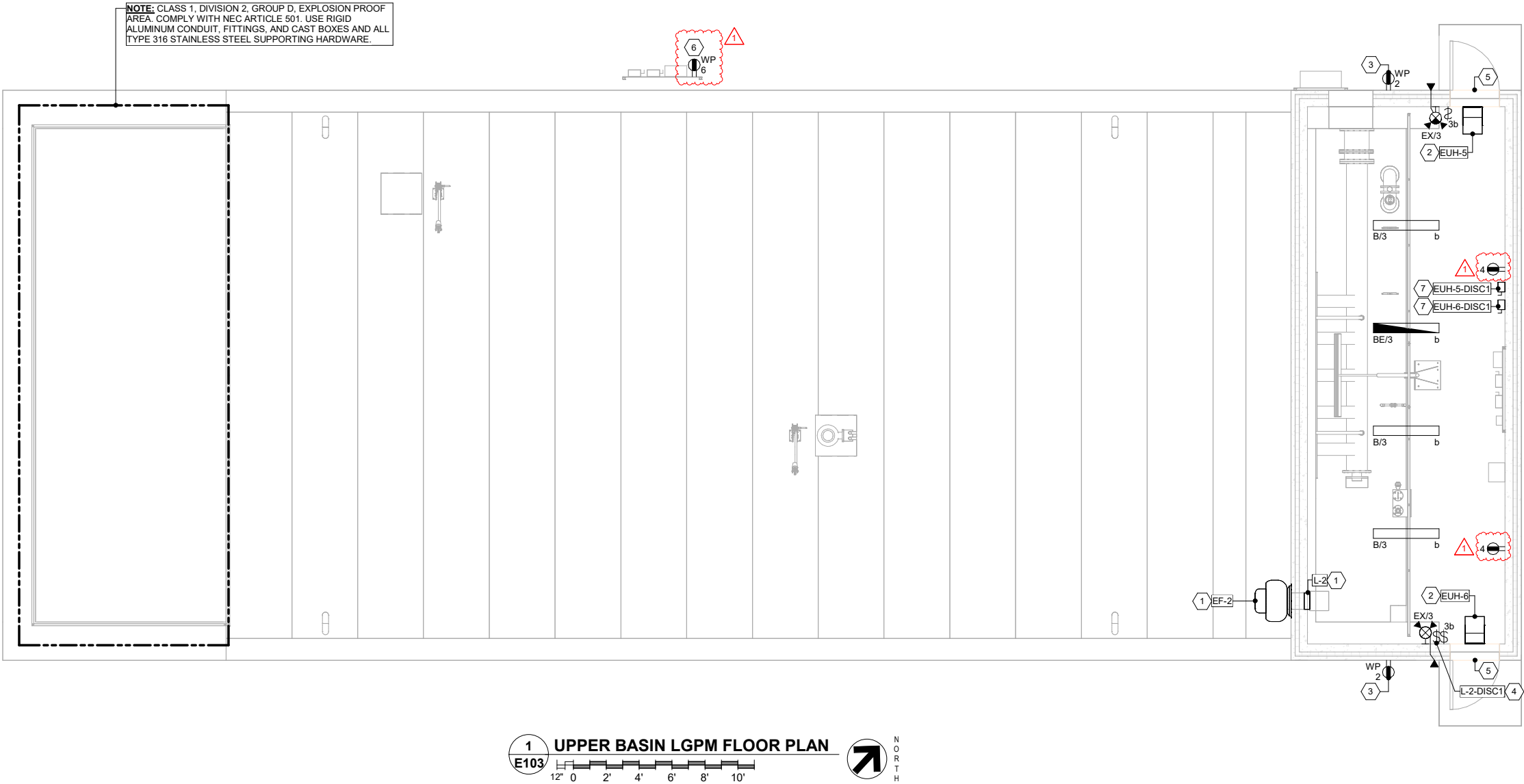
HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

PROCESS SCHEDULES

CLIENT: CITY OF HILL CITY HILL CITY, SOUTH DAKOTA		PREPARED BY: PWH
		CHECKED BY: Checker
		APPROVED BY: JK

PROJECT NO: 12021-2023-005	SHEET DESIGNATOR:	SHEET NO:
DATE: JUNE 2026	SBR	P601
ALT PROJECT NO: 00000-0000		



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



STATUS FOR BIDDING

SYM	DATE	DESCRIPTION	APPR
1	08-07-26	ADDENDUM No. 1	JLW



GENERAL NOTES

- ALL CONTROL / SIGNAL WIRING TO BE ROUTED FROM EB SERIES CONTROL PANELS.

CONSTRUCTION NOTES

- MECHANICAL EQUIPMENT PROVIDED BY DIVISION 23 AND CIRCUITED BY DIVISION 26. SEE THE MECHANICAL EQUIPMENT SCHEDULE, PANELBOARD SCHEDULE, AND CABLE AND CONDUIT SCHEDULE FOR DETAILS.
- ELECTRIC UNIT HEATER PROVIDED AND CIRCUITED BY DIVISION 26. SEE MECHANICAL EQUIPMENT SCHEDULE, PANELBOARD SCHEDULE, AND CABLE AND CONDUIT SCHEDULE FOR DETAILS.
- PROVIDE A GASKETED FS-STYLE BOX WITH A GFCI RECEPTACLE AND CAST METAL WEATHERPROOF, IN-USE COVER. SEE PANELBOARD SCHEDULE FOR DETAILS.
- PROVIDE SNAP SWITCH DISCONNECT FOR DAMPER ACTUATOR. SNAP SWITCH TO BE RATED 15A, 120V MINIMUM. COORDINATE FINAL LOCATION PRIOR TO INSTALLATION.
- PROVIDE CONDUIT FOR FUTURE EXTERIOR LIGHT INSTALLATION FROM EB-LP1. STUB CONDUIT THROUGH WALL 1'-0" ABOVE DOOR. HAND CAP CONDUIT NO GLUE.
- PROVIDE A GASKETED FS-STYLE BOX WITH A GFCI RECEPTACLE AND CAST METAL WEATHERPROOF, IN-USE COVER MOUNTED ON COMMON STRUT STAND. SEE PANELBOARD SCHEDULE FOR DETAILS.
- CONTRACTOR TO PROVIDE A DISCONNECT SWITCH (26 28 18) WALL MOUNTED 48" ABOVE GRADE. SEE MECHANICAL SCHEDULE AND ONE-LINE DIAGRAM FOR DETAILS.

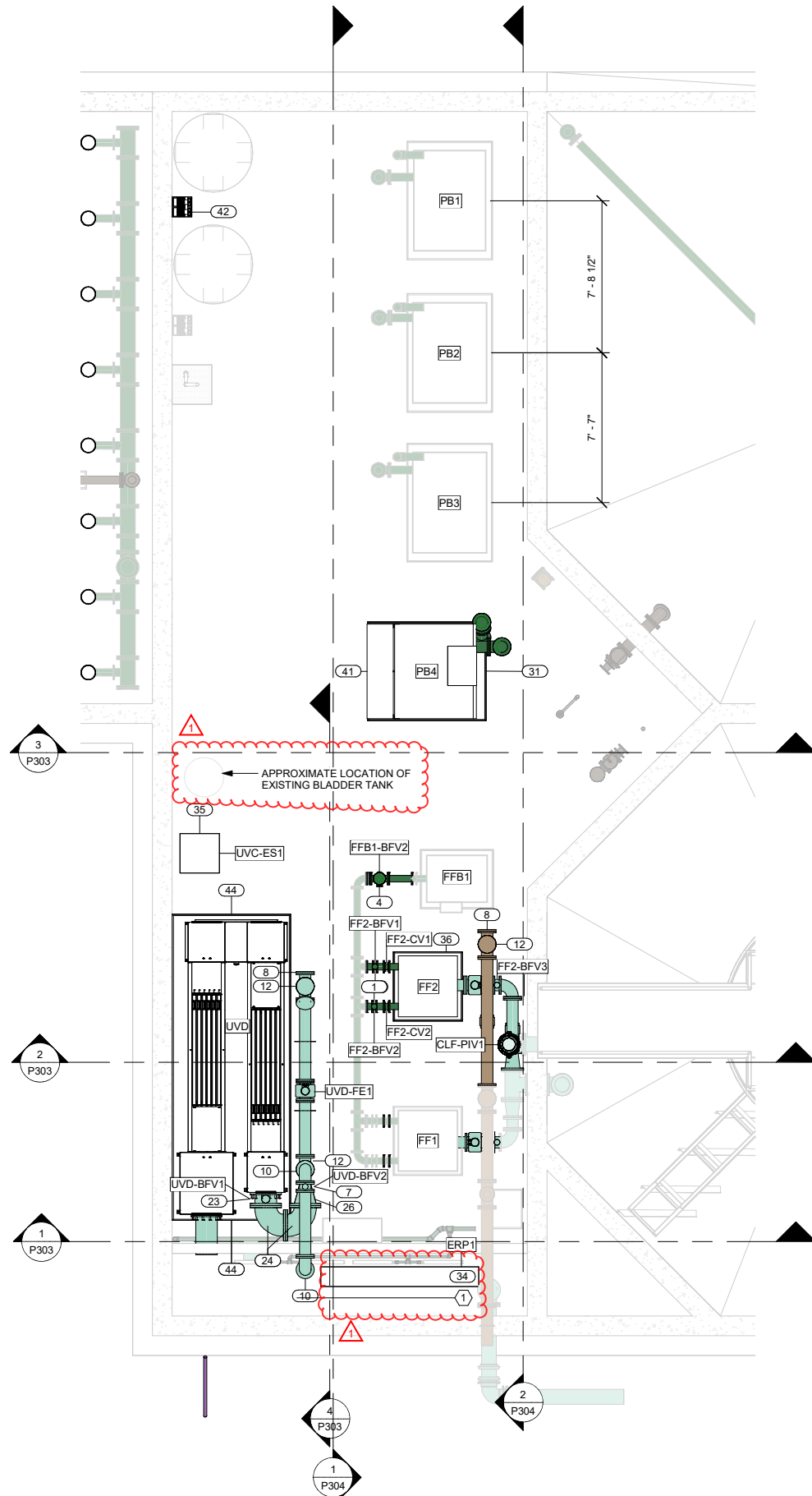
HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

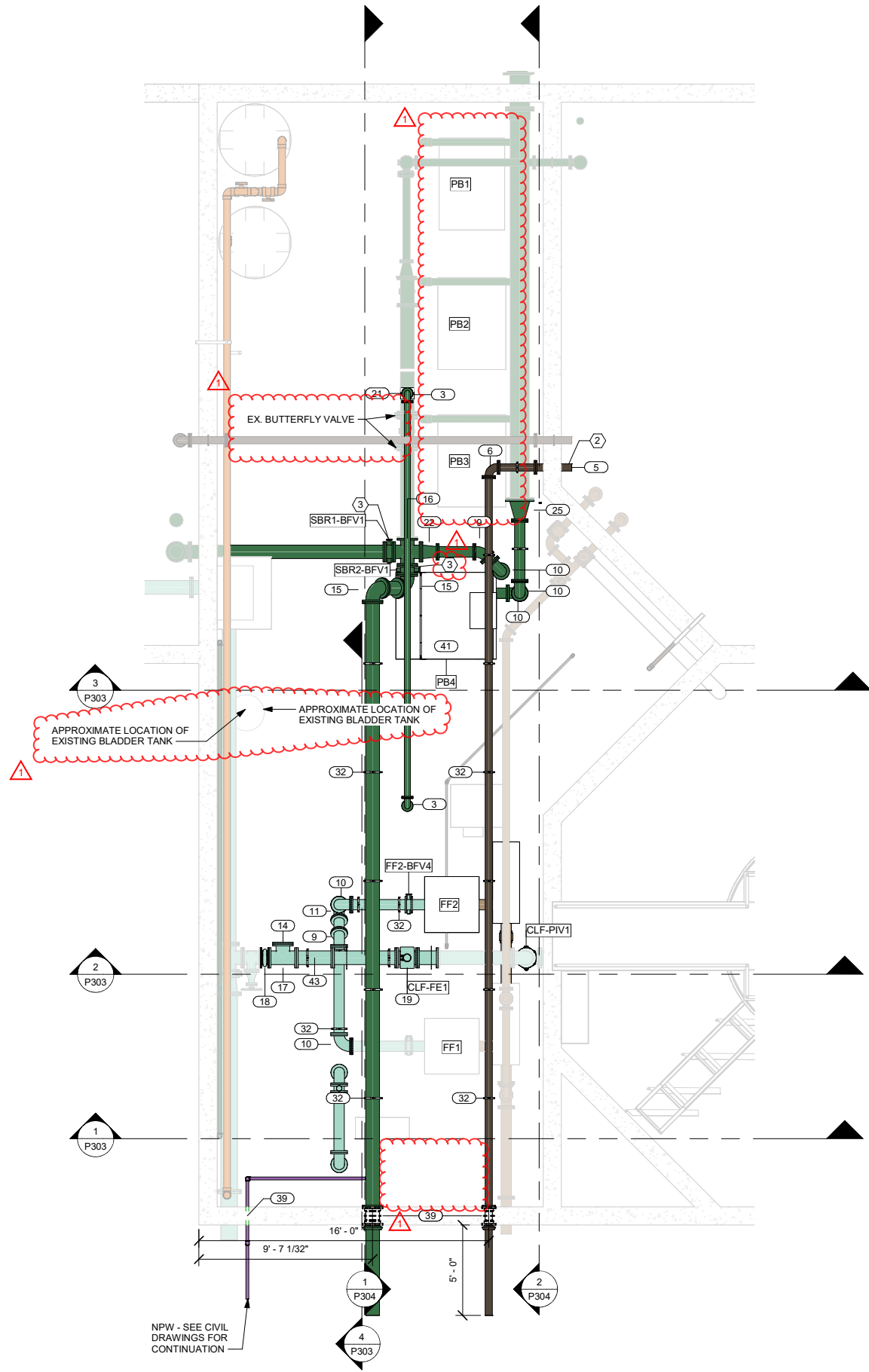
PROJECT TITLE:

SHEET TITLE: UPPER BASIN LGPM FLOOR PLAN

CLIENT:	CITY OF HILL CITY HILL CITY, SOUTH DAKOTA	PREPARED BY: TED
		CHECKED BY: TNF
		APPROVED BY: JLW
PROJECT NO: 12021-2023-005	SHEET DESIGNATOR:	SHEET NO:
DATE: JUNE 2026	SBR	E103
ALT PROJECT NO: N/A		



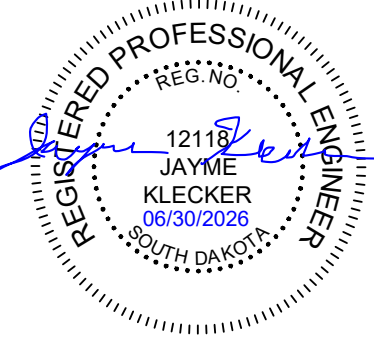
1 SUBGRADE LEVEL - LOWER PIPING ENLARGED PLAN
P101



2 SUBGRADE LEVEL - UPPER PIPING ENLARGED PLAN
P102



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



STATUS: FOR BIDDING



- # PROCESS IMPROVEMENTS
- 3" BUTTERFLY VALVE
 - 3" CHECK VALVE
 - 3" FL DI 90° BEND
 - 3" SS BLOWER DISCHARGE CONNECTION, SEE DETAIL 2/SD/P501
 - 4" DI WALL PIPE, SEE DETAIL
 - 4" FL DI 90° BEND
 - 6" BUTTERFLY VALVE
 - 6" DI BLIND FLANGE
 - 6" FL DI 45° BEND
 - 6" FL DI 90° BEND
 - 6" FL DI LATERAL WYE
 - 6" FL DI TEE
 - 6" FLOW METER (SALVAGED)
 - 8" DI BLIND FLANGE W/4 THREADED OPENINGS FOR INJECTION QUILLS
 - 8" FL DI 90° BEND
 - 8" FL DI CROSS
 - 8" FL DI TEE (SALVAGED)
 - 8" FL RUBBER EXPANSION JOINT
 - 8" MAGNETIC FLOW METER
 - 8" PINCH VALVE
 - 8" x 3" SADDLE
 - 8" x 6" FL DI CONCENTRIC REDUCER
 - 12" BUTTERFLY VALVE
 - 12" FL DI 90° BEND
 - 12" x 6" FL DI CONCENTRIC REDUCER
 - 12" x 6" FL DI ECCENTRIC REDUCER
 - ADJUSTABLE PIPE SUPPORT - TYPE 1 - SEE PROCESS STANDARD DETAILS
 - ALUM PUMP SHELF
 - BACKWASH WATER TROUGH
 - BLOWER PAD
 - CLEVIS HANGER PIPE SUPPORT - TYPE 2 - SEE PROCESS STANDARD DETAILS
 - DIFFUSER
 - EFFLUENT REUSE PUMP
 - EFFLUENT SAMPLER (RELOCATED)
 - FILTER PAD
 - FUZZY FILTER
 - MJ x MJ WALL PIPE - SEE DETAIL 2/SD/P706
 - PROCESS BLOWER SUPPLIED BY SBR MANUFACTURER
 - REDUNDANT ALUM PUMP
 - STAINLESS STEEL STATIC MIXER WITH TWO MIXING ELEMENTS. ENDS SHALL BE CLASS 150 LB FLAT FACE FLANGES FOR DUCTILE IRON PIPE.
 - UV EQUIPMENT PAD
- # CONSTRUCTION NOTES
- PROVIDE GRUNDFOS FLOW SLEEVE AND PUMP MODEL 35SS30-11, RATED FOR 36.5 GPM AT 233 FT OF HEAD. CONNECT TO EXISTING BLADDER TANK
 - WALL PIPE IN EXISTING WALL, TYPE 1. SEE DETAIL 2/P706
 - VALVE AND ACTUATOR FURNISHED BY SBR MANUFACTURER

HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

SHEET TITLE: SUBGRADE LEVEL - ENLARGED PIPING PLANS

CLIENT: CITY OF HILL CITY
HILL CITY, SOUTH DAKOTA

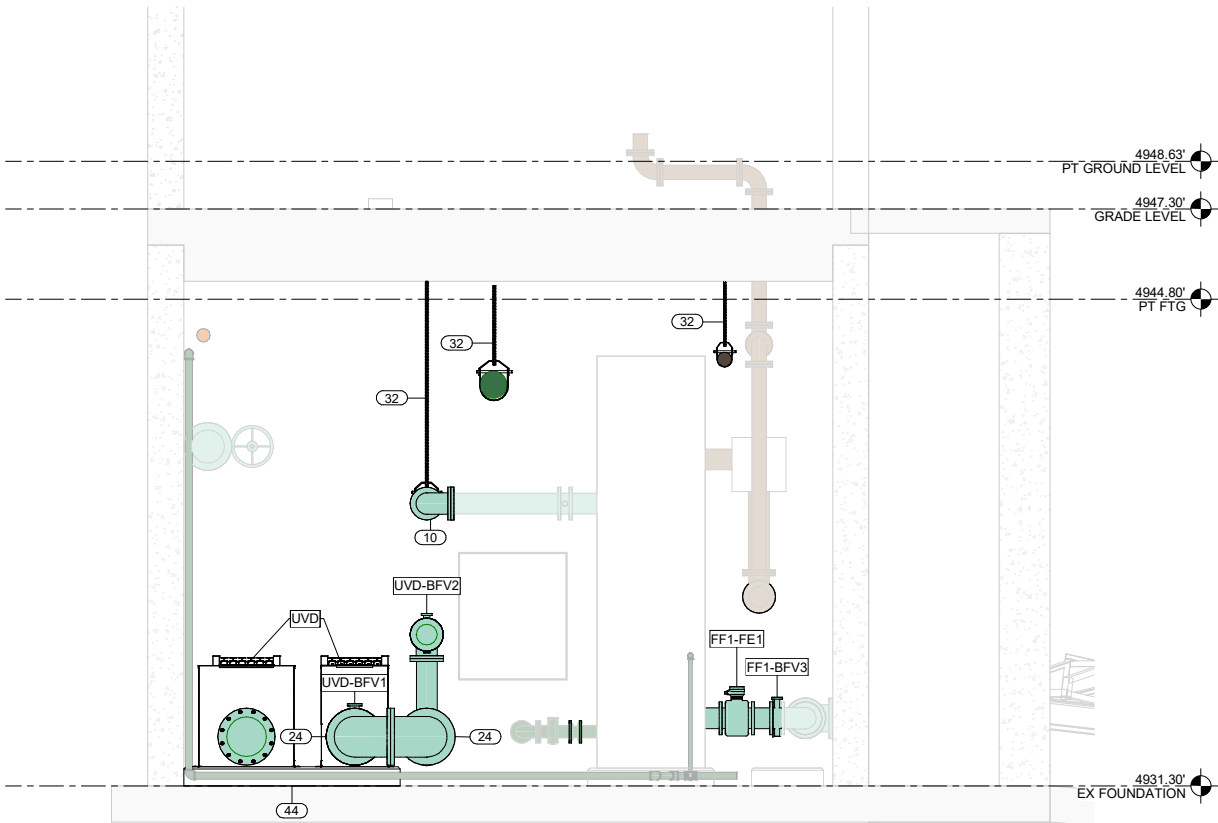
PREPARED BY: PWH
CHECKED BY: ZJR
APPROVED BY: JJK

PROJECT NO: 12021-2023-005
DATE: JUNE 2026
ALT PROJECT NO: 00000-0000

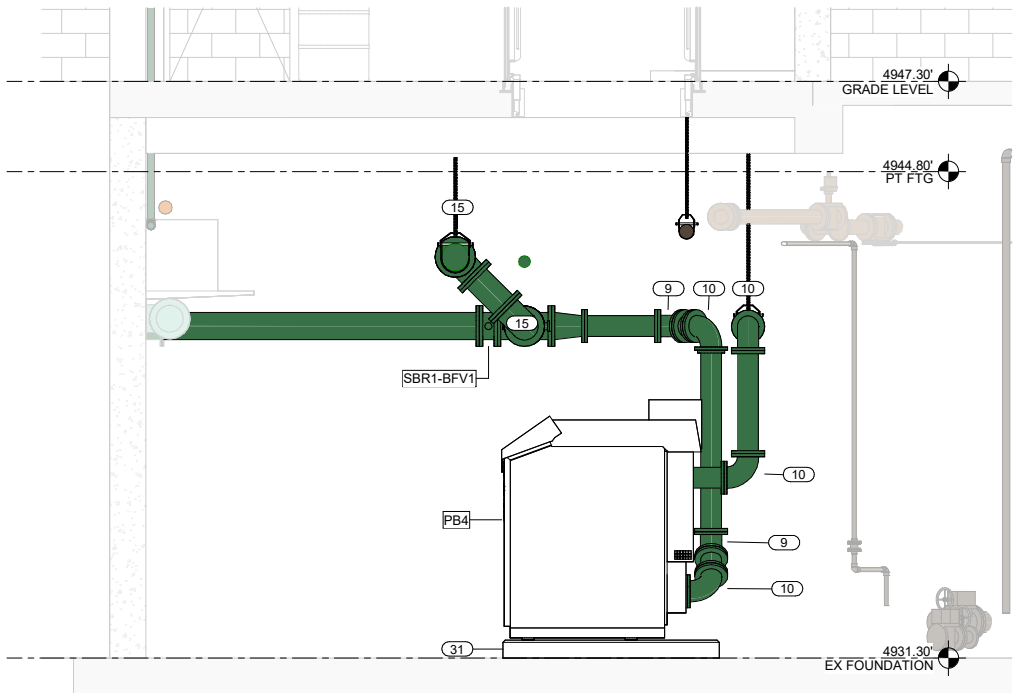
SHEET DESIGNATOR: PB
SHEET NO: P101

Autodesk Docs/12021-2023-005 Hill City - WRRF Improvements/Hill City WRRF Expansion P. 024.v1

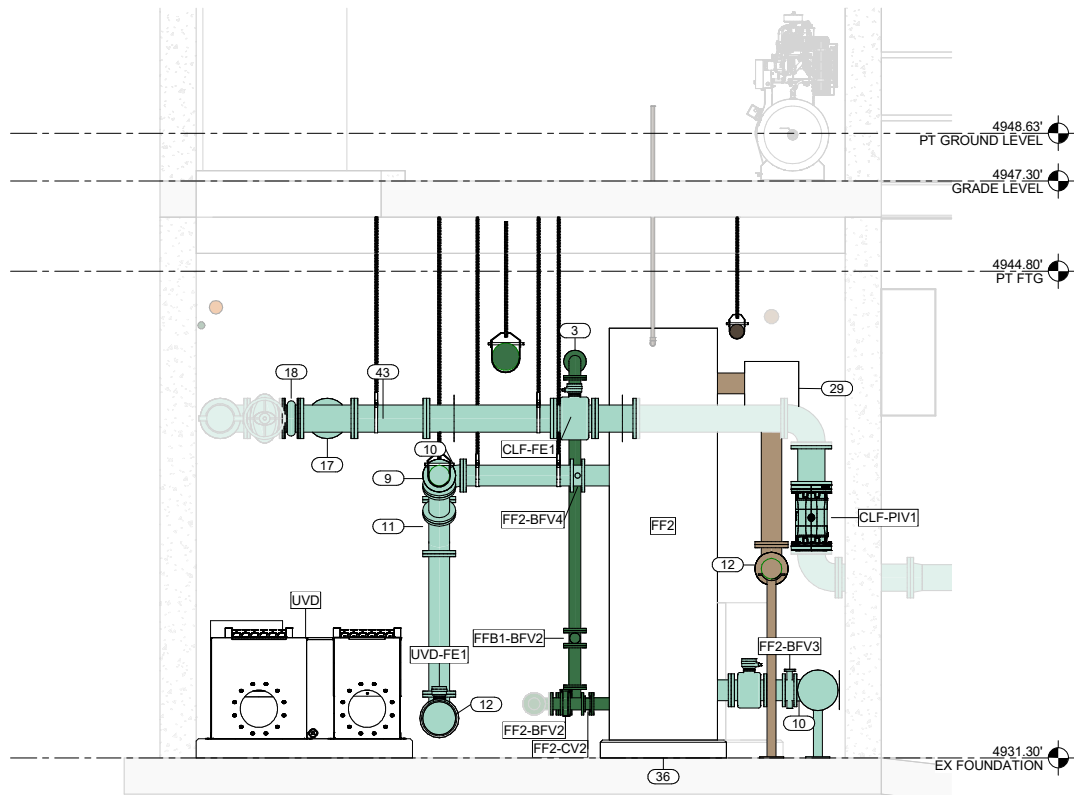
8/6/2026 10:10 PM



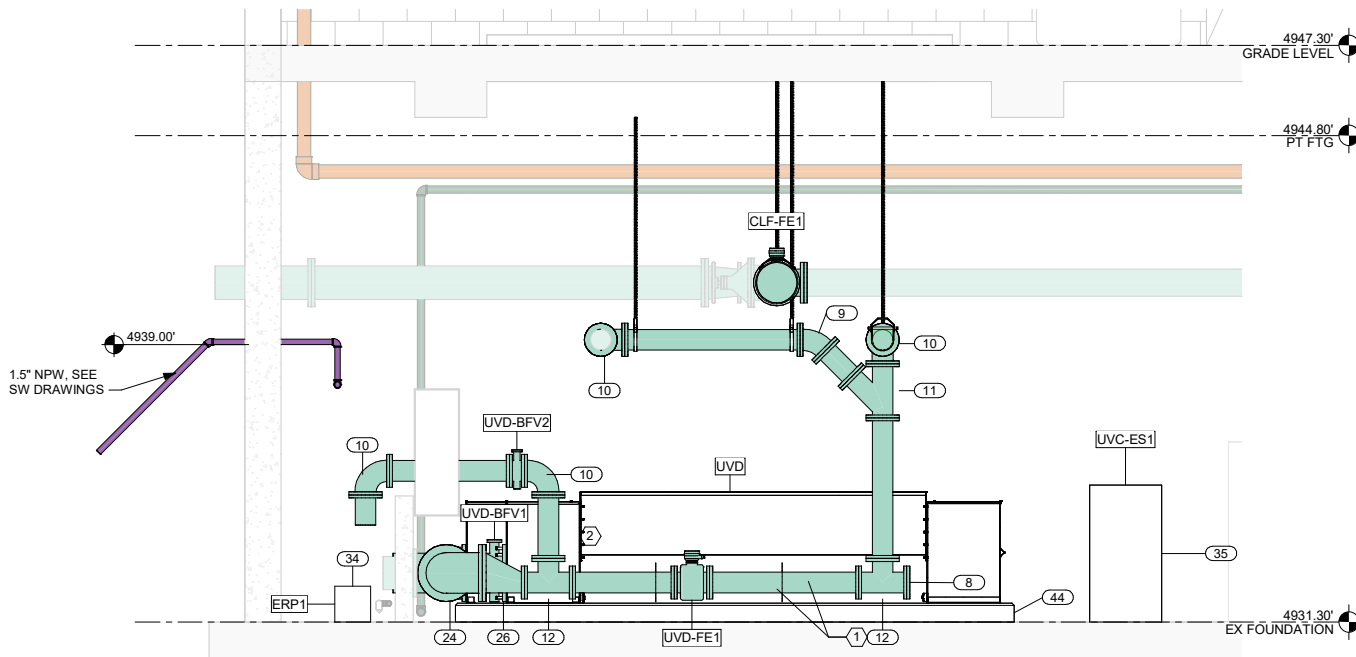
1 PIPING SECTION
P303 12' 0' 1' 2' 3' 4' 5' 6' 7'



3 PIPING SECTION
P303 12' 0' 1' 2' 3' 4' 5' 6' 7'



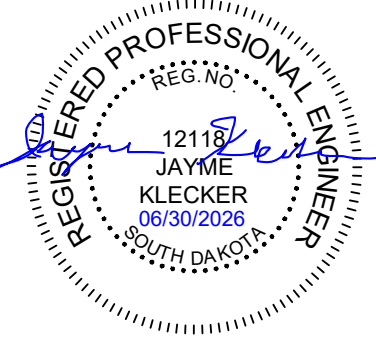
2 PIPING SECTION
P303 12' 0' 1' 2' 3' 4' 5' 6' 7'



4 PIPING SECTION
P303 12' 0' 1' 2' 3' 4' 5' 6' 7'



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



- CONSTRUCTION NOTES**
- RELOCATE SALVAGED TEE. ADD BLIND FLANGE WITH FOUR THREADED OPENINGS FOR INJECTION QUILLS.
 - INSTALL SALVAGED 6" FLOW METER

- PROCESS IMPROVEMENTS**
- 3" BUTTERFLY VALVE
 - 3" CHECK VALVE
 - 3" FL DI 90° BEND
 - 3" SS BLOWER DISCHARGE CONNECTION, SEE DETAIL 2/SD/P501
 - 6" BUTTERFLY VALVE
 - 6" DI BLIND FLANGE
 - 6" FL DI 45° BEND
 - 6" FL DI 90° BEND
 - 6" FL DI LATERAL WYE
 - 6" FL DI TEE
 - 6" FLOW METER (SALVAGED)
 - 8" DI BLIND FLANGE W/4 THREADED OPENINGS FOR INJECTION QUILLS
 - 8" FL DI 90° BEND
 - 8" FL DI CROSS
 - 8" FL DI TEE (SALVAGED)
 - 8" FL RUBBER EXPANSION JOINT
 - 8" MAGNETIC FLOW METER
 - 8" PINCH VALVE
 - 8" x 6" FL DI CONCENTRIC REDUCER
 - 12" BUTTERFLY VALVE
 - 12" FL DI 90° BEND
 - 12" x 6" FL DI ECCENTRIC REDUCER
 - ADJUSTABLE PIPE SUPPORT - TYPE 1 - SEE PROCESS STANDARD DETAILS
 - BACKWASH WATER TROUGH
 - BLOWER PAD
 - CLEVIS HANGER PIPE SUPPORT - TYPE 2 - SEE PROCESS STANDARD DETAILS
 - EFFLUENT REUSE PUMP
 - EFFLUENT SAMPLER (RELOCATED)
 - FILTER PAD
 - FUZZY FILTER
 - MJ x MJ WALL PIPE - SEE DETAIL 2/SD/P706
 - PROCESS BLOWER SUPPLIED BY SBR MANUFACTURER
 - STAINLESS STEEL STATIC MIXER WITH TWO MIXING ELEMENTS. ENDS SHALL BE CLASS 150 LB FLAT FACE FLANGES FOR DUCTILE IRON PIPE.
 - UV EQUIPMENT PAD

SHEET TITLE: PIPING SECTIONS

CLIENT:	CITY OF HILL CITY HILL CITY, SOUTH DAKOTA	PREPARED BY:	PWH
		CHECKED BY:	ZJR
		APPROVED BY:	JK
PROJECT NO:	12021-2023-005	SHEET DESIGNATOR:	PB
DATE:	JUNE 2026	SHEET NO:	P303
ALT PROJECT NO:	00000-0000		

STATUS: FOR BIDDING

SYM	DATE	DESCRIPTION
1	08-07-26	

HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

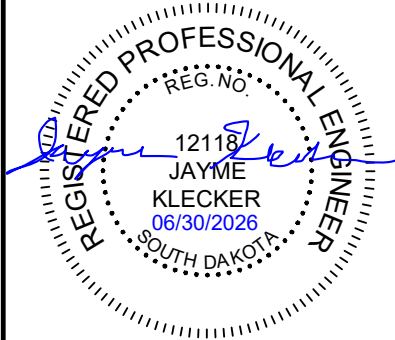
EQUIPMENT SCHEDULE					
TAG #	DESCRIPTION	TYPE	SPECIFICATION	FURNISHED BY	REMARKS
ERP1	EFFLUENT REUSE PUMP				
FF2	FUZZY FILTER				
PB4	SBR2 BLOWER			SBR MANUFACTURER	
UVC-ES1	EFFLUENT SAMPLER				RELOCATED
UVD	ULTRAVIOLET DISINFECTION UNIT				

INSTRUMENT SCHEDULE					
TAG #	DESCRIPTION	TYPE	SPECIFICATION	FURNISHED BY	REMARKS
CLF-FE1	8" MAGNETIC FLOW METER	MAGNETIC FLOW METER	40 71 00		
FF1-FE1	6" FLOW METER	MAGNETIC FLOW METER	40 71 00		
FF2-FE1	6" FLOW METER	MAGNETIC FLOW METER	40 71 00		
UVD-FE1	SALVAGED 6" FLOW METER	MAGNETIC FLOW METER	40 71 00		

VALVE SCHEDULE								
TAG #	DESCRIPTION	VALVE SIZE	CONNECTION	TYPE	SPECIFICATION	OPERATOR	FURNISHED BY	REMARKS
QLF-PIV1	PINCH VALVE	8"	FLANGE	PINCH VALVE	40 27 20		CONTRACTOR	
FF1-BFV3	BUTTERFLY VALVE	6"	WAFER	BUTTERFLY VALVE	46 61 21		FUZZY FILTER MFG	
FF2-BFV1	BUTTERFLY VALVE	3"	WAFER	BUTTERFLY VALVE	46 61 21		FUZZY FILTER MFG	
FF2-BFV2	BUTTERFLY VALVE	3"	WAFER	BUTTERFLY VALVE	46 61 21		FUZZY FILTER MFG	
FF2-BFV3	BUTTERFLY VALVE	6"	WAFER	BUTTERFLY VALVE	46 61 21		FUZZY FILTER MFG	
FF2-BFV4	BUTTERFLY VALVE	6"	WAFER	BUTTERFLY VALVE	46 61 21		FUZZY FILTER MFG	
FF2-BFV5	FLUSH VALVE	3"	FLANGED	BUTTERFLY VALVE	46 61 21		FUZZY FILTER MFG	
FF2-BV1	DRAIN VALVE	2"	FLANGED	BALL VALVE	46 61 21		FUZZY FILTER MFG	
FF2-CV1	CHECK VALVE	3"	WAFER	CHECK VALVE	46 61 21		FUZZY FILTER MFG	
FF2-CV2	CHECK VALVE	3"	WAFER	CHECK VALVE	46 61 21		FUZZY FILTER MFG	
FFB1-BFV2	BUTTERFLY VALVE	3"	FLANGED	BUTTERFLY VALVE	40 27 20		CONTRACTOR	
SBR1-BFV1	BUTTERFLY VALVE	8"	FLANGED	BUTTERFLY VALVE	46 50 16	ELECTRIC	SBR MFG	
SBR2-BFV1	BUTTERFLY VALVE	8"	FLANGED	BUTTERFLY VALVE	46 50 16	ELECTRIC	SBR MFG	
UVD-BFV1	BUTTERFLY VALVE	12"	FLANGED	BUTTERFLY VALVE	46 66 10		UV SYSTEM MFG	
UVD-BFV2	BUTTERFLY VALVE	6"	FLANGED	BUTTERFLY VALVE	46 66 10		UV SYSTEM MFG	



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



STATUS: FOR BIDDING

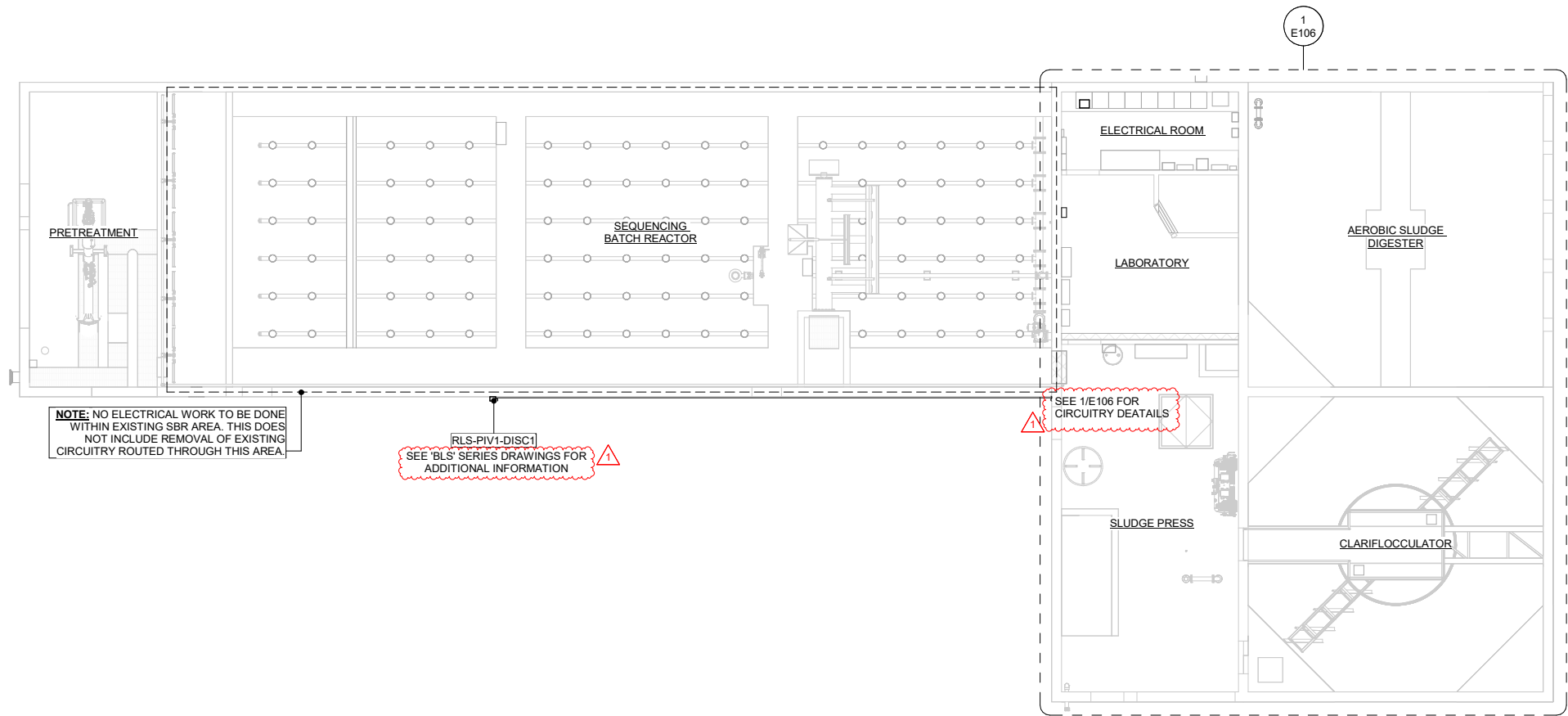


HILL CITY WWTF IMPROVEMENTS
Advanced Engineering and Environmental Services, LLC www.ae2s.com

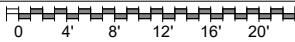
SHEET TITLE: PROCESS SCHEDULES

CLIENT:	CITY OF HILL CITY HILL CITY, SOUTH DAKOTA	PREPARED BY:	PWH
		CHECKED BY:	ZJR
		APPROVED BY:	JJK

PROJECT NO: 12021-2023-005	SHEET DESIGNATOR:	SHEET NO:
DATE: JUNE 2026	PB	P601
ALT PROJECT NO: 00000-0000		



1 OVERALL GROUND LEVEL ELECTRICAL PLAN VIEW
E105



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



STATUS FOR BIDDING

SYN	DATE	DESCRIPTION	APPR
1	08-07-26	ADDENDUM No. 1	JLW



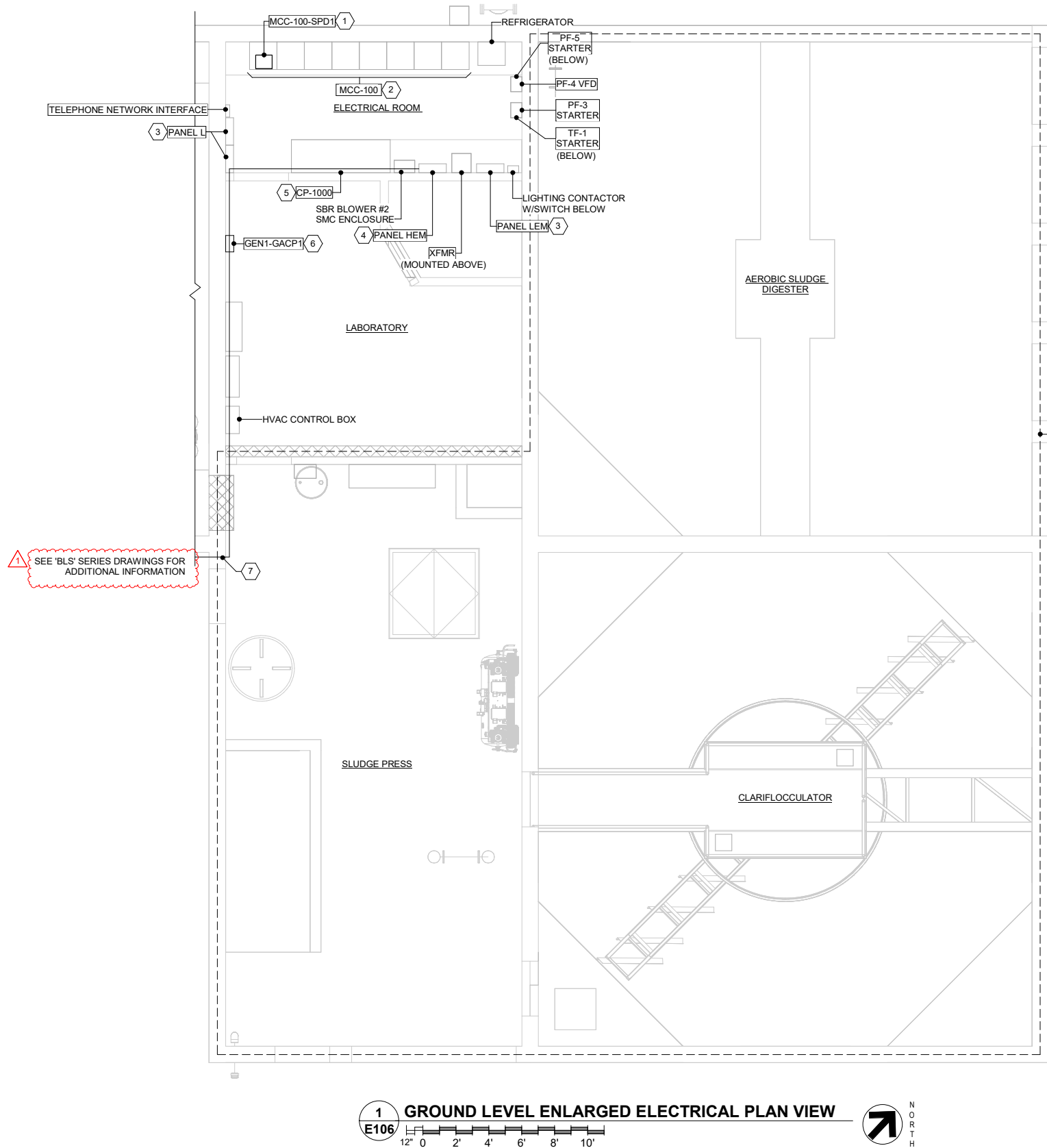
HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

SHEET TITLE:
OVERALL GROUND LEVEL ELECTRICAL IMPROVEMENTS PLAN

CLIENT:	CITY OF HILL CITY HILL CITY, SOUTH DAKOTA	PREPARED BY: TED
		CHECKED BY: TNF
		APPROVED BY: JLW

PROJECT NO: 12021-2023-005	SHEET DESIGNATOR:	SHEET NO:
DATE: JUNE 2026	PB	E105
ALT PROJECT NO: N/A		



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



STATUS FOR BIDDING

SYN	DATE	DESCRIPTION	APPR
1	08-07-26	ADDENDUM No. 1	JLW



CONSTRUCTION NOTES

- 1 MOUNT NEW MCC SPD (26 43 00) IN LOCATION OF PREVIOUS TVSS. SEE ONE-LINE DIAGRAM FOR DETAILS.
- 2 MOTOR CONTROL CENTER TO BE MODIFIED. SEE PROPOSED MCC-100 ELEVATION AND MCC-100 IMPROVEMENTS ONE-LINE DIAGRAM FOR DETAILS.
- 3 SEE PANEL SCHEDULE FOR PANELBOARD MODIFICATIONS.
- 4 PANEL HEM TO BE FED FROM MCC-100. SEE ONE-LINE DIAGRAM FOR DETAILS.
- 5 CONTROL PANEL TO BE MODIFIED. SEE CONTROL PANEL IMPROVEMENTS PHOTO AND IO SCHEDULE FOR DETAILS.
- 6 GENERATOR REMOTE ANNUNCIATOR PANEL SUPPLIED BY GENERATOR MANUFACTURER (26 32 13) AND SHIPPED TO SITE LOOSE FOR INSTALLATION BY ELECTRICAL CONTRACTOR. MOUNT WITH BOTTOM 48" A.F.F. CIRCUITRY ROUTED FROM 'EB' BUILDING EQUIPMENT. SEE CABLE AND CONDUIT SCHEDULE WITHIN 'EB' SERIES FOR DETAILS.
- 7 CORE DRILL EXISTING SLUDGE PRESS ROOM WALL IN LOCATION SHOWN FOR INSTALLATION OF RLS-PIV1-DISC1 CONDUIT AND AS NEEDED TO ROUTE CONDUIT TO PANEL HEM. SEAL AROUND OPENING WITH NON-SHRINK GROUT. SEE CABLE AND CONDUIT SCHEDULE FOR DETAILS.

HILL CITY WWTF IMPROVEMENTS

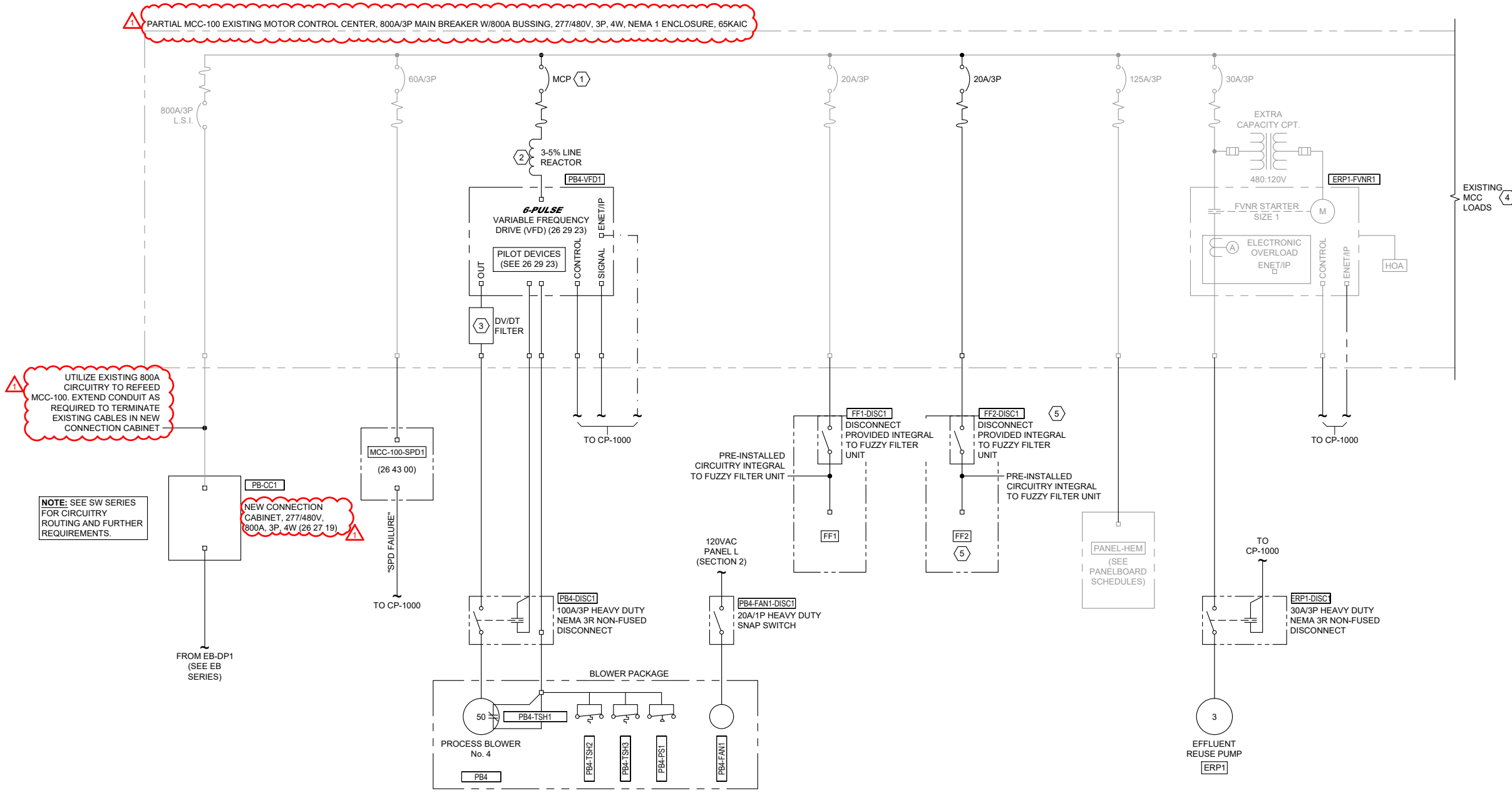
Advanced Engineering and Environmental Services, LLC www.ae2s.com

PROJECT TITLE:

GROUND LEVEL ENLARGED ELECTRICAL IMPROVEMENTS PLAN

CLIENT:	CITY OF HILL CITY HILL CITY, SOUTH DAKOTA	PREPARED BY:	TED
		CHECKED BY:	TNF
		APPROVED BY:	JLW
PROJECT NO:	12021-2023-005	SHEET DESIGNATOR:	PB
DATE:	JUNE 2026	SHEET NO.:	E106
ALT PROJECT NO:	N/A		

File: C:\Users\Brendt\Documents\AES\2021-2023\005 Hill City - WRF Improvement\Project Files\06 Electrical\Misc\Plan Sheets\EB-PB-Various One-Line Diagrams.dwg
Plotted By: Brendt Berndt Date: Friday, August 7, 2026



1 ONE-LINE DIAGRAM
E603 MCC-100



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



- CONSTRUCTION NOTES**
- 1 OVERCURRENT PROTECTIVE DEVICE AS RECOMMENDED BY VFD MANUFACTURER.
 - 2 SEE SPECIFICATION SECTION (26 24 23) FOR INPUT LINE REACTOR REQUIREMENTS.
 - 3 SEE SPECIFICATION SECTION (26 24 23) FOR OUTPUT FILTER REQUIREMENTS.
 - 4 REMAINDER OF MCC-100 LOADS NOT SHOWN FOR CLARITY ON EQUIPMENT BEING MODIFIED OR REPLACED.
 - 5 FUZZY FILTER (48 61 21) TRAVELING PLATE ACTUATOR SYSTEM TO HAVE INTEGRAL STARTER AND DISCONNECT. DISCONNECT SHOWN FOR CLARITY.

STATUS: FOR BIDDING

1	SYN	DATE
1	08-07-26	ADDENDUM No. 1

HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

SHEET TITLE: ONE-LINE DIAGRAM

CLIENT: CITY OF HILL CITY
HILL CITY, SOUTH DAKOTA

PROJECT NO: 12021-2023-005
DATE: JUNE 2026
ALT. PROJECT NO: N/A

PREPARED BY: PGM
CHECKED BY: TNF
APPROVED BY: JLV

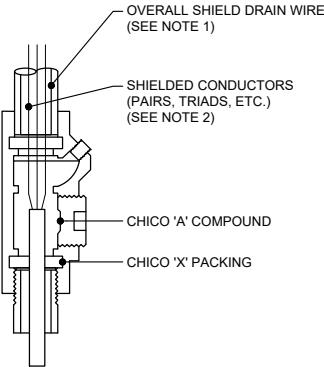
PB E603

File: C:\Users\Brenda\Documents\AES\12021-2023-005 Hill City - WWTF Improvements\Project Files\Electrical\Accessories\Plan Sheets\ES-SD-Venue Details.dwg
Printed By: Brenda Brendt Date: Friday, August 7, 2026

GENERAL NOTES

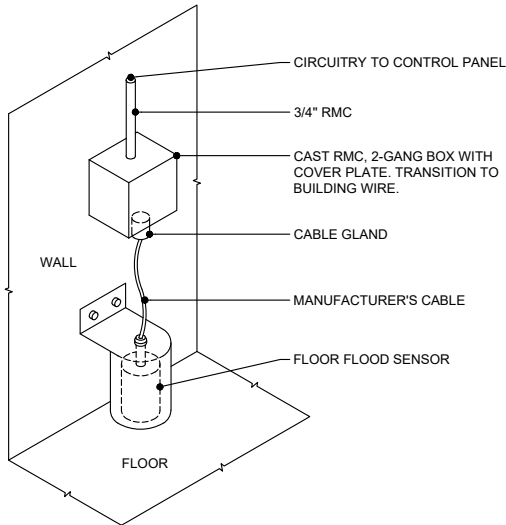
1. PROTECT SHIELD FOIL FROM CONTACTING CONNECTOR BODY. SHRINK TUBE TO BE APPLIED TO FULL LENGTH OF EXPOSED DRAIN WIRE.
2. SHIELDED AND TWISTED PAIR INSTRUMENTATION AND COMMUNICATION CABLES SUCH AS CAT5/6, ETHERNET, PROFIBUS, MODBUS, AND SIMILAR CABLE TYPES SHALL NOT REQUIRE THE REMOVAL OF THE SHIELDING MATERIAL OR UNTWISTING OF THE TWISTED PAIRS, AS EXPECTED UNDER ARTICLE 501-15 OF THE NEC. SHIELDING MATERIAL MUST BE PREVENTED FROM UNWRAPPING.

NOTE: ELECTRICAL CONTRACTOR SHALL VERIFY THAT ONLY QUALIFIED INDIVIDUALS ARE TASKED WITH SEAL INSTALLATION. SEALS ARE SUBJECT TO RANDOM QA INSPECTION.



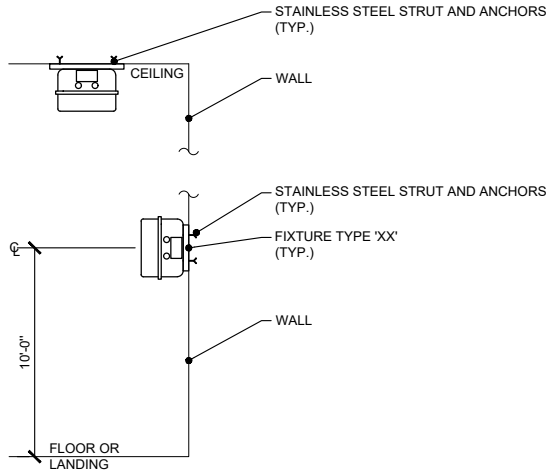
1 CONDUIT SEAL DETAIL
E703 SCALE: NONE

EQPM074



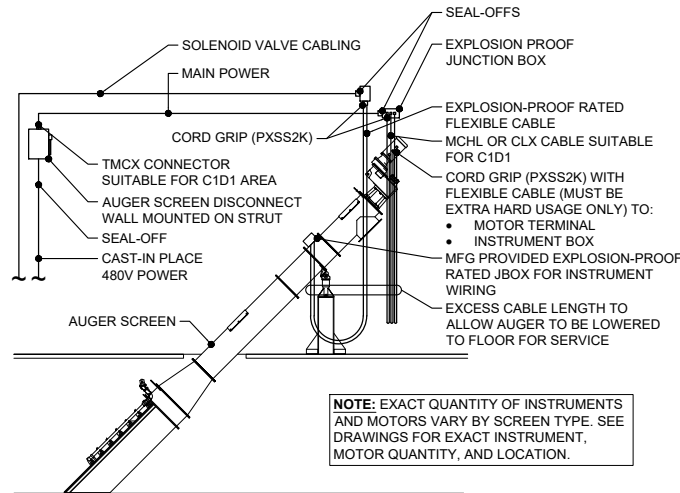
2 FLOOR FLOOD SWITCH DETAIL
E703 SCALE: NONE

EQPM028



3 WALL AND CEILING FIXTURE MOUNTING DETAIL
E703 SCALE: NONE

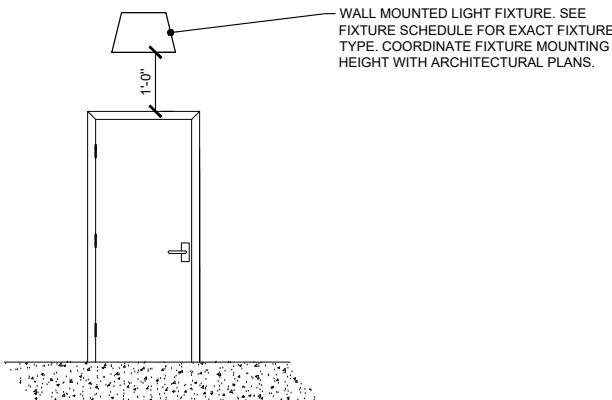
LIGHT016



NOTE: EXACT QUANTITY OF INSTRUMENTS AND MOTORS VARY BY SCREEN TYPE. SEE DRAWINGS FOR EXACT INSTRUMENT, MOTOR QUANTITY, AND LOCATION.

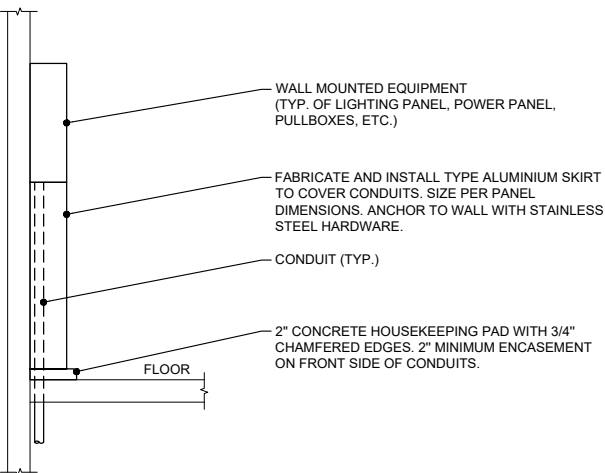
4 AUGER SCREEN WIRING DETAIL
E703 SCALE: NONE

EQPM059



5 EXTERIOR WALL MOUNTED LIGHT FIXTURE DETAIL
E703 SCALE: NONE

LIGHT027



5 WALL MOUNTED EQUIPMENT CONDUIT HOUSEKEEPING PAD FLOOR PENETRATION DETAIL
E703 SCALE: NONE

EQPM019



Certification of Individual Project Design Disciplines Are Included On Their Individual Drawings, Respectively



STATUS: FOR BIDDING

1	SYM	DATE	APPR
1		08-07-26	JLW

HILL CITY WWTF IMPROVEMENTS

Advanced Engineering and Environmental Services, LLC www.ae2s.com

STANDARD DETAILS

CLIENT:	CITY OF HILL CITY HILL CITY, SOUTH DAKOTA	PREPARED BY: PGM
		CHECKED BY: TNF
		APPROVED BY: JLW
PROJECT NO: 12021-2023-005	SHEET DESIGNATOR:	SHEET NO:
DATE: JUNE 2026	SD	E703
ALT. PROJECT NO: N/A		

Contractor's Application for Payment No. _____

Application Period:		Application Date:
To (Owner):	From (Contractor):	Via (Engineer):
Project:	Contract:	
Owner's Contract No.:	Contractor's Project No.:	Engineer's Project No.:

Application For Payment

Change Order Summary

Approved Change Orders			1. ORIGINAL CONTRACT PRICE..... \$
Number	Additions	Deductions	2. Net change by Change Orders..... \$
			3. Current Contract Price (Line 1 ± 2)..... \$
			4. TOTAL COMPLETED AND STORED TO DATE
			(Column F total on Progress Estimates)..... \$
			5. RETAINAGE:
			a. X _____ Work Completed..... \$
			b. X _____ Stored Material..... \$
			c. Total Retainage (Line 5.a + Line 5.b)..... \$
			6. AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5.c)..... \$
			7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application)..... \$
			8. AMOUNT DUE THIS APPLICATION..... \$
			9. BALANCE TO FINISH, PLUS RETAINAGE
			(Column G total on Progress Estimates + Line 5.c above)..... \$
TOTALS			
NET CHANGE BY			
CHANGE ORDERS			

Contractor's Certification

The undersigned Contractor certifies, to the best of its knowledge, the following:

(1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment;

(2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all Liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such Liens, security interest, or encumbrances); and

(3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

Contractor Signature

By:	Date:
-----	-------

Payment of: \$ _____
(Line 8 or other - attach explanation of the other amount)

is recommended by: _____
(Engineer) (Date)

Payment of: \$ _____
(Line 8 or other - attach explanation of the other amount)

is approved by: _____
(Owner) (Date)

Approved by: _____
Funding or Financing Entity (if applicable) (Date)

Progress Estimate - Lump Sum Work

Contractor's Application

For (Contract):						Application Number:						
Application Period:						Application Date:						
						Work Completed		E	F		G	
A				B	C	D	Materials Presently Stored (not in C or D)	Total Completed and Stored to Date (C + D + E)	% (F / B)	Balance to Finish (B - F)		
Specification Section No.	Description	Scheduled Value (\$)	From Previous Application (C+D)	This Period								
	Totals											

Progress Estimate - Unit Price Work

Contractor's Application

[illegible]

Stored Material Summary

Contractor's Application

[illegible]

SECTION 00 63 13
REQUEST FOR INFORMATION FORM

Submitted to: **Advanced Engineering and Environmental Services, Inc.**
610 East Blvd,
Rapid City, SD 57701

Date: _____

From: _____

Attention To: _____

Tel/Fax: _____

CC: _____

RFI #: _____

RFI Subject: _____

Spec. Referenced: _____

Project: Hill City WWTF Improvements Project

AE2S Project #: 12021-2023-005

CWSRF Project #: C461231-01

Information Requested:

Response:

END OF SECTION

State: South Dakota

Construction Types: Heavy and Highway

Counties: South Dakota Counties of
Aurora, Beadle, Bennett, Bon Homme,
Brookings, Brown, Brule, Buffalo, Butte,
Campbell, Charles Mix, Clark, Clay,
Codington, Corson, Custer, Davison, Day,
Deuel, Dewey, Douglas, Edmunds, Fall
River, Faulk, Grant, Gregory, Haakon,
Hamlin, Hand, Hanson, Harding, Hughes,
Hutchinson, Hyde, Jackson, Jerauld,
Jones, Kingsbury, Lake, Lawrence,
Lincoln, Lyman, Marshall, McCook,
McPherson, Meade, Mellette, Miner,
Minnehaha, Moody, Pennington, Perkins,
Potter, Roberts, Sanborn, Spink,
Stanley, Sully, Todd, Tripp, Turner,
Union, Walworth, Yankton, Ziebach and
Oglala Lakota

Heavy Construction

Highway Construction

Modification Number	Publication Date
0	01/30/2026
1	05/18/2026
2	05/21/2026

SASD2025-001 12/12/2024

	Rates	Fringes
TRUCK DRIVER: Group 2 - Semi-Tractor and Trailer; Tandem Truck with Pup or Trailer.....	\$ 32.07	8.42
TRUCK DRIVER: Group 1 - Tandem Truck without trailer or pup; Single Axle Truck over 26,000 GVW with or without Trailer	\$ 30.01	0.00
POWER EQUIPMENT OPERATOR: Group 5 - Asphalt Plant; Concrete Batch Plant; Backhoes/Excavators over 40 Tons; Cranes/Derricks/Draglines/Pile Drivers/Shovels over 50 tons; Heavy Duty Mechanic; Finishing Motor Grader; Automatic Fine Grader; Milling Machine; Bridge Welder.....	\$ 34.96	8.36
POWER EQUIPMENT OPERATOR: Group 4 - Concrete Paving Finishing Machine; Asphalt Paving Machine Screed; Asphalt Paving Machine; Cranes/Derricks/Draglines/Pile Drivers/Shovels-30 to 50 tons; Backhoes/Excavators-21 to 40 tons; Maintenance Mechanic; Scrapers (wheels or tracks); Concrete Pump Truck.....	\$ 32.49	0.00
POWER EQUIPMENT OPERATOR: Group 3 - Asphalt Distributor; Bulldozer over 80 HP; Backhoes/Excavators 20 tons or less; crusher (may		

include internal screening plant); Front End Loader over 1.25 CY; Rough Motor Grader; Self Propelled Hot Mix Roller; Push or Pull Tractor; Off-Highway Haul Trucks; Material Spreader or Palcer; Rumbler Strip Machine; Pavement Marking Grinding Equipment..\$ 31.56	0.00
POWER EQUIPMENT OPERATOR: Group 2 - Concrete Paving Cure Machine; Concrete Paving Joint Sealer; Bull-Dozer 80 HP/less; Front End Loader 1.25 CY /less; Self-Propelled Roller (except Hot Mix); Sheepsfoot/Pneumatic Roller; Pneumatic Tired Tractor or Crawler (includes Water Wagon and Power Spray Units); Wagon Drill (Air Trac Drill); Truck Type Auger; Concrete Paving Saw; Concrete Grooving..\$ 31.73	0.00
POWER EQUIPMENT OPERATOR: Group 1 - Tractor (farm type with attachments, including loaders but excluding Backhoe); Self Propelled Broom; Concrete Routing Machine; Paver Feeder; Pugmill; Skid Steer \$ 30.16	0.00
PAINTER: Group 2 - Painting or protective coating bridges, apply varnish, antirust materials, prepare steel or other surfaces with primer or sandblasting, paints structural framewor.....\$ 29.81	0.00
PAINTER: Group 1 - Line striping machine, paint trucks, epoxy trucks, thermoplastic trucks, cold applied plastic/and preformed thermoplastic pavement marking equipment. Operate pavement marking equipment to include epoxies, paints, primers, sealers, cold applied tapes, thermoplastics used for traffic marking purposes. \$ 26.96	0.00
LABORER: Group 6 - Concrete Finsher; Grade Checker..\$ 29.81	0.00
LABORER: Group 5 - Carpenter; Form Builder\$ 31.94	0.00
LABORER: Group 3 - Asphalt Plant Tender; Pile Driver Leadsman; Form Setter, Oiler/Greaser.\$ 28.97	0.00
LABORER: Group 2 - Mechanic Tender; Pipe Layer (except culvert); Form Builder Tender.\$ 26.96	0.00
LABORER: Group 1 - Air Tool Operator; Common Laborer; Landscape Worker, Flagger, Pilot Car Driver; Trucks under 26,000 GVW; Materials Checker; Special Surface Finish Applicator.\$ 26.93	0.00
IRONWORKER: Group 2 - Erect, place and join steel girders, columns, structural framework, air wrenches, spud bars, grinders, drills, sledgehammers, tag lines, plumb bobs, lasers, levels, bolts, wire, welds, shears, rod-bending machines.....\$ 28.97	0.00
IRONWORKER: Group 1 - Position and secure steel bars or mesh in concrete for reinforcement, steel tyers, saw. Carrying, placing, tying, reinforcing steel under supervision, cutting. Placing steel or prefabricated reinforcement assembly for placement in concrete forms.\$ 26.93	0.00
ELECTRICIAN.....\$ 35.43	8.69

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

=====

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave
for Federal Contractors applies to all contracts subject to the
Davis-Bacon Act for which the contract is awarded (and any
solicitation was issued) on or after January 1, 2017. If this
contract is covered by the EO, the contractor must provide
employees with 1 hour of paid sick leave for every 30 hours
they work, up to 56 hours of paid sick leave each year.

Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Note: Executive Order 13658 generally applies to contracts subject to the Davis-Bacon Act that were awarded on or between January 1, 2015 and January 29, 2022, and that have not been renewed or extended on or after January 30, 2022. Executive Order 13658 does not apply to contracts subject only to the Davis-Bacon Related Acts regardless of when they were awarded. If a contract is subject to Executive Order 13658, the contractor must pay all covered workers at least \$13.65 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract from May 11, 2026, through December 31, 2026. The applicable Executive Order minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under Executive Order 13658 is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than "SU", "UAVG", "SA", or "SC" denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE:

UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The ""SU"" identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

?SU? wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The ""SA"" identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

- a) a survey underlying a wage determination
- b) an existing published wage determination
- c) an initial WHD letter setting forth a position on a wage determination matter
- d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

=====

END OF GENERAL DECISION"

SECTION 03 45 00
PRECAST ARCHITECTURAL CONCRETE

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Architectural precast concrete wall panels with integral insulation.
- B. Architectural precast concrete accessories.
- C. Supports, anchors, and attachments.
- D. Grouting under panels.

1.02 REFERENCE STANDARDS

- A. ACI CODE-318 - Building Code for Structural Concrete—Code Requirements and Commentary; 2025.
- B. ACI SPEC-301 - Specifications for Concrete Construction; 2020.
- C. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2019.
- D. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2024.
- E. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2023.
- F. ASTM A307 - Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength; 2021.
- G. ASTM A416/A416M - Standard Specification for Low-Relaxation, Seven-Wire Steel Strand for Prestressed Concrete; 2026.
- H. ASTM A492 - Standard Specification for Stainless Steel Rope Wire; 1995 (Reapproved 2019).
- I. ASTM A563/A563M - Standard Specification for Carbon and Alloy Steel Nuts (Inch and Metric); 2026.
- J. ASTM A615/A615M - Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement; 2026.
- K. ASTM A767/A767M - Standard Specification for Zinc-Coated (Galvanized) Steel Bars for Concrete Reinforcement; 2024.

- L. ASTM A1064/A1064M - Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete; 2024.
- M. ASTM C31/C31M - Standard Practice for Making and Curing Concrete Test Specimens in the Field; 2026a.
- N. ASTM C33/C33M - Standard Specification for Concrete Aggregates; 2024a.
- O. ASTM C150/C150M - Standard Specification for Portland Cement; 2024.
- P. ASTM C330/C330M - Standard Specification for Lightweight Aggregates for Structural Concrete; 2023.
- Q. ASTM C979/C979M - Standard Specification for Pigments for Integrally Colored Concrete; 2024.
- R. ASTM C1088 - Standard Specification for Thin Veneer Brick Units Made from Clay or Shale; 2024.
- S. ASTM C1602/C1602M - Standard Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete; 2022.
- T. AWS D1.1/D1.1M - Structural Welding Code - Steel; 2025, with Amendment (2026).
- U. AWS D1.4/D1.4M - Structural Welding Code - Steel Reinforcing Bars; 2018, with Amendment (2020).
- V. PCI MNL-117 - Manual for Quality Control for Plants and Production of Architectural Precast Concrete Products; 2013.
- W. PCI MNL-120 - PCI Design Handbook; 2025.
- X. PCI MNL-122 - Architectural Precast Concrete; 2007.
- Y. PCI MNL-123 - Connections Manual: Design and Typical Details of Connections for Precast and Prestressed Concrete; 1988.
- Z. PCI MNL-135 - Tolerance Manual for Precast and Prestressed Concrete Construction; 2000.

1.03 SUBMITTALS

- A. See Section 01 33 00 - Submittal Procedures, for submittal procedures.
- B. Product Data: Manufacturer's information on accessory products, including pigments, admixtures, inserts, plates, etc.
- C. Samples: Design reference samples for initial verification of design intent, for each type of finish indicated on exposed surfaces of architectural precast

concrete units, in sets of three, representative of finish, color, and texture variations expected; approximately 12 by 12 by 2 inches.

- D. Shop Drawings: Indicate layout, unit locations, configuration, unit identification marks, reinforcement, integral insulation, insulated panel system connectors, connection details, support items, location of lifting devices, dimensions, openings, and relationship to adjacent materials. Provide erection drawings.
 - 1. Include details of mix designs.
 - 2. Include structural design calculations.

1.04 QUALITY ASSURANCE

- A. Design Engineer Qualifications: Design precast concrete units under direct supervision of a Professional Structural Engineer experienced in design of precast concrete and licensed in the State in which the Project is located.
- B. Fabricator Qualifications:
 - 1. Firm having at least 2 years of documented experience in production of precast concrete of the type required.
 - 2. Plant certified under Precast/Prestressed Concrete Institute Plant Certification Program; product group and category A1 - Architectural Precast Concrete.
- C. Welder Qualifications: Qualified within previous 12 months in accordance with AWS D1.1/D1.1M and AWS D1.4/D1.4M
- D. Single Source Requirement: Provide precast concrete of this section by one supplier. Supplier may use other manufacturers for specific products, but submittals and coordination for all precast products shall be the responsibility of a single supplier.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Handling: Lift and support precast units only from support points.
- B. Blocking and Lateral Support During Transport and Storage: Use materials that are clean, non-staining, and non-harmful to exposed surfaces. Provide temporary lateral support to prevent bowing and warping.
- C. Protect units to prevent staining, chipping, or spalling of concrete.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Architectural Precast Concrete:

1. Any manufacturer holding a PCI Group A Plant Certification for the types of products specified; see www.pci.org/#sle.
2. Gage Brothers Concrete Products, Inc. .
3. Wells Concrete .
4. Taracon Precast.
5. Ola Precast.
6. Collins Precast.
7. Pete Lien & Sons.
8. Steinbauer Precast.
9. Engineered Concrete Products.
10. Substitutions: See Section 01 61 00 - Common Product Requirements.

2.02 PRECAST UNITS, GENERAL

- A. Precast Architectural Concrete Units: Comply with PCI MNL-120, PCI MNL-122, PCI MNL-123, PCI MNL-135, and ACI CODE-318.
 1. Design Loads: Static loads, anticipated dynamic loading, including positive and negative wind loads, thermal movement loads, and erection forces as defined by applicable code.
 2. Calculate structural properties of units in accordance with ACI CODE-318.
 3. Accommodate construction tolerances, deflection of building structural members, and clearances of intended openings.
 4. Provide connections that accommodate building movement and thermal movement and adjust to misalignment of structure without unit distortion or damage.

2.03 FINISHES

- A. Adic-Etched Finish: Use acid and hot-water solution, equipment, application techniques, and cleaning procedures to expose aggregate and surrounding matrix surfaces. Protect hardware, connections, and insulation from acid.

2.04 REINFORCEMENT

- A. Tensioning Steel Tendons: ASTM A416/A416M , Grade 250; seven-wire stranded steel cable; low-relaxation strand.
- B. Reinforcing Steel: ASTM A615/A615M, Grade 40 (40,000 psi).
- C. Steel Welded Wire Reinforcement (WWR): Plain type, ASTM A1064/A1064M.

2.05 CONCRETE MATERIALS

- A. Cement: ASTM C150/C150M, Type I - Normal Portland type.
- B. Fine and Coarse Structural Aggregates: ASTM C33/C33M.

- C. Lightweight Structural Aggregate: ASTM C330/C330M.
- D. Color Additives: Pure, concentrated mineral pigments specifically intended for mixing into concrete and complying with ASTM C979/C979M.
 - 1. Concentration: Base dosage rates on weight of Portland cement, fly ash, silica fume, and other cementitious materials but not aggregate or sand.
 - 2. Color(s): As indicated on drawings.
- E. Water: ASTM C1602/C1602M; clean, potable, and not detrimental to concrete.
- F. Grout:
 - 1. Non-shrink, non-metallic, minimum 10,000 psi, 28 day strength.

2.06 SUPPORT DEVICES

- A. Connecting and Support Devices; Anchors and Inserts: ASTM A36/A36M steel; hot-dip galvanized in accordance with ASTM A153/A153M.
 - 1. Clean surfaces of rust, scale, grease, and foreign matter.
 - 2. Galvanize after fabrication in accordance with requirements of ASTM A123/A123M.
- B. Bolts, Nuts, and Washers: ASTM A307 heavy hex bolts, Type A, hot-dip galvanized, with matching ASTM A563/A563M nuts and matching washers.
- C. Primer: Zinc rich type.

2.07 INSULATION

- A. Manufacturer's standard integral rigid insulation.
- B. Panel R-value: R-15 minimum.

2.08 FABRICATION

- A. Fabricate in compliance with PCI MNL-117 and PCI MNL-135.
- B. Maintain plant records and quality control program during production of precast units. Make records available upon request.
- C. Use rigid molds, constructed to maintain precast unit uniform in shape, size, and finish.
- D. Use form liners in accordance with manufacturer's instructions.
- E. Maintain consistent quality during manufacture.

- F. Fabricate connecting devices, plates, angles, items fit to steel framing members, inserts, bolts, and accessories. Fabricate to permit initial placement and final attachment.
- G. Embed reinforcing steel, anchors, inserts plates, angles, and other cast-in items.
- H. Locate hoisting devices to permit removal after erection.
- I. Cure units to develop concrete quality, and to minimize appearance blemishes such as non-uniformity, staining, or surface cracking.
- J. Minor patching in plant is acceptable, providing structural adequacy and appearance of units is not impaired.

2.09 FABRICATION TOLERANCES

- A. Comply with PCI MNL-117 and PCI MNL-135.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that building structure, anchors, devices, and openings are ready to receive work of this section.

3.02 PREPARATION

- A. Provide for erection procedures and induced loads during erection. Maintain temporary bracing in place until final support is provided.

3.03 ERECTION

- A. Erect units without damage to shape or finish. Replace or repair damaged panels.
- B. Erect units level and plumb within allowable tolerances.
- C. Align and maintain uniform horizontal and vertical joints as erection progresses.
- D. When units require adjustment beyond design or tolerance criteria, discontinue affected work; advise Engineer.
- E. Weld units in place. Perform welding in accordance with AWS D1.1/D1.1M.
- F. Touch-up field welds and scratched or damaged primed painted surfaces.
- G. Set vertical units dry, without grout, attaining joint dimension with lead or plastic spacers. Pack grout to base of unit.

3.04 TOLERANCES

- A. Erect members level and plumb within allowable tolerances. Comply with PCI MNL-135, except as specifically amended below.
1. Plan Location from Building Grid Datum: Plus or minus 3/8 in.
 2. Top Elevation from Nominal Top Elevation: Plus or minus 3/8 in.
 3. Maximum Plumb Variation Over Height of Structure or 100 ft (whichever is less): Plus or minus 1/2 inch.
 4. Exposed Joint Dimension: Plus or minus 3/16 inch.

END OF SECTION 03 45 00

This page intentionally left blank

Construction Manager's Bid Manual

Hill City WWTF Improvements

Hill City, SD

August 17, 2026



803 INDUSTRIAL AVENUE, RAPID CITY, SD 57709

P-605-342-2379 F-605-342-8568

Hill City WWTF Improvements

Construction Manager's Bid Manual

Table of Contents

DIVISION 00 – PROCUREMENT REQUIREMENTS

- A. Table of Contents
- B. Bidder's Checklist
- C. Invitation to Bid
- D. Instruction to Bidders
- E. Exhibit 1 – Bidder's General Requirements
- F. Exhibit 2 – Bid Form / Bid Packages
 - 01C – General Construction
 - 02A – Construction Staking
 - 02B – Materials Testing
 - 03A – Foundation and Site Concrete
 - 03B – Precast Concrete (Material Only)
 - 05B – Miscellaneous Metals
 - 07A – Membrane Roofing
 - 07G – Joint Sealants
 - 08B – Doors and Hardware (Material Supply)
 - 08C – Overhead and Coiling Doors
 - 09E – Painting and Coating
 - 22A – Plumbing
 - 23A – HVAC
 - 23B – Plumbing/HVAC Combined
 - 26A – Electrical and Communications
 - 31A – Earthwork and Utilities
 - 46A – Process Piping and Equipment
- G. Exhibit 3 – Sample of Sealed Envelope
- H. Exhibit 4 – Sample of Performance and Payment Bond
- I. Exhibit 5 – Contractor's Statement of Skills and Capabilities
- J. Exhibit 6 – Construction Schedule
- K. Agreement for Construction
 - EJCDC CMAR-523 Sample Subcontract
 - Minimum Insurance Requirements
 - Scull Safety Policy

END OF TABLE OF CONTENTS

Bidder's Checklist

The following items need to be reviewed and/or submitted along with your bid. All bids and any modifications to bids must be in the hands of a Scull Construction representative on or before the time set for opening bids in the Invitation for Bids.

- ☐ Review Davis Bacon Wage Scale Requirements
- ☐ American Iron and Steel Provisions Requirements
- ☐ Review Bidders General Requirements
- ☐ Review bid package and fill in all blanks on the Bid Form as required by bid package (Mark any unused blanks with N/A). Including, but not limited to, the following items:
 - ☐ Fill in payment and performance bond value (not to be included as a part of the base bid). Failure or inability to provide bond may result in bid being disqualified.
 - ☐ Receipt of all addenda
 - ☐ Bid Form is signed by an officer of the corporation or, if not a corporation, a proprietor or partner
 - ☐ Review bid package General Scope of Work Inclusions / Exclusions
- ☐ Review Project Schedule
- ☐ Review Minimum Insurance Requirements
- ☐ Review Scull Safety Policy

Hill City WWTF Improvements

Invitation to Bid

Scull Construction/ PKG Contracting (CMAR) will receive sealed bids for the construction of the **Hill City WWTF Improvements** project in Hill City, SD. Bids will be received at 803 Industrial Ave. Rapid City, SD 57702 on **September 30, 2026 until 2:00 p.m. (Mountain Time)**; at which time and place all bids will be publicly opened. ***EMAILED BIDS WILL NOT BE ACCEPTED***

Contract documents, including bid proposal forms, drawings and project manual are available for review on August 17, 2026 at the following:

AGC of Wyoming	Cheyenne, WY
Bid Center	Casper, WY
Billings Builders Exchange	Billings, MT
Cheyenne Plan Service	Cheyenne, WY
Construction Industry Center	Rapid City, SD
Fargo-Moorhead Builders Exchange	Fargo, ND
Northeast Wyoming Plan	Gillette, WY
Plains Builders Exchange	Sioux Falls, SD
Sioux Falls Builders Exchange	Sioux Falls, SD

The Invitation to bid will also be advertised in the following publications:

Rapid City Journal, Hill City Prevailer, Rapid City Journal, Black Hills Pioneer

Copies of the bidding documents may also be obtained from the CMAR's website. Please contact Miranda Brown at Scull Construction, 605-342-2379 or email at mbrown@scullconst.com for access. Printing of project documents will be the responsibility of the bidder obtaining the documents.

An on-site pre-bid meeting is scheduled for September 1, 2026, 1:00 PM Mountain Time, at 1130 SMOKEY DR. Hill City, SD 57745. Attendance is recommended but not a requirement. It is advisable that the contractor inspects the project site to familiarize himself with the site and corresponding site preparation requirements prior to the bid opening. Questions regarding the bid may be directed to Scull Construction Services attention Shane Crecelius, email screcelius@scullconst.com. Phone 605-342-2379.

The Contract scope for the project consists of the follow bid packages:

01C – General Construction	02A – Construction Staking
02B – Materials Testing	03A – Foundation and Site Concrete
03B – Precast Concrete	05B – Miscellaneous Metals
07A – Membrane Roofing	07G – Joint Sealants
08B – Doors and Hardware	08C – Overhead and Coiling Doors
09E – Painting and Coating	22A – Plumbing

23A – HVAC
26A – Electrical and Communications
46A – Process Piping and Equipment

23B – Plumbing/HVAC Combined
31A – Earthwork and Utilities

Bids shall be submitted on the correct bid form in a sealed, opaque envelope. Bid envelopes shall clearly state the name of the bidder, name of bid package, and acknowledge all addenda. All bids shall be made in accordance with forms referenced to and/or made part of the proposed contract documents. Full responsibility for the delivery of mailed bids prior to the deadline for receiving bids rests with the bidder. ***EMAILED BIDS WILL NOT BE ACCEPTED***

The successful bidder may be required to furnish a contract performance bond and a labor and materials payment bonds in the penal amount of one hundred percent (100%) of the contract price as originally bid or subsequently modified.

The Owner intends to partially or wholly fund the project with a Clean Water State Revolving Fund loan. The project will need to meet the requirements of DBE Program requirements, Equal Employment Opportunity, Davis-Bacon wage rates, American Iron and Steel Act of 2014 (AIS), Certification of Debarment, and all other pertinent legislation and rules associated with the Clean Water SRF Program and South Dakota Codified Law.

City of Hill City shall reserve the right to reject any and all bids or proposals

Instruction to Bidders

Instructions to Bidders

1. Examination of Plans, Specifications and Site.

Bidders should carefully examine the site of the proposed work, subsurface conditions, the Plans and Specifications, and the bid and contract documents governing the project. The submission of bids is conclusive evidence that the bidder has investigated and is satisfied as to the conditions to be encountered; the character, quality, and scope of the proposed work; the quality and quantity of the materials to be furnished; and the requirements of the bid, the Plans and Specifications, and the other Contract Documents.

Pre-bid questions should be directed to Scull Construction Services to the attention of the following:

Shane Crecelius – screcelius@scullconst.com.

Clarifications requested by bidders must be in writing not less than seven (7) days before date set for receipt of bids. Product Substitutions requested by bidders must be in writing not less than fourteen (14) days before date set for receipt of bids

2. Submission of Bids.

Each bid must:

- a) Be submitted on the prescribed form (Exhibit "2"); all blank spaces for bid prices must be filled in, in ink or typewritten, in both words and figures;
- b) Include any addenda issued during the time of advertising for bids the same as though it had been included in the original Plans and Specifications; and
- c) Be submitted in a sealed opaque envelope bearing on the outside the name of the bidder, his/her address, and the name of the project for which the bid is submitted. See Exhibit "3" attached hereto for Sample Format for envelope. If forwarded by mail, Federal Express, or other commercial courier, the sealed envelope containing the bid must be enclosed in another envelope addressed as specified on the bid form.

3. Bid Modifications.

All bids and any modifications to bids must be in the hands of a Scull Construction representative on or before the time set for opening bids in the Invitation for Bids.

4. Contractor's Qualification Statement.

For bids of \$50,000.00 or more, the apparent low bidder, upon request, must submit to Scull Construction, within 48 hours of said request, the Contractor's Statement of Skills and Capabilities (Exhibit "5").

5. Withdrawal of Bids.

Any bid may be withdrawn by letter, telephone, email, or in person before the time specified in the advertisement therefor. Withdrawal of a bid does not prejudice a bidder's right to submit a new bid within the time designated for the submission of bids. No bids may be withdrawn after the time designated in the Invitation to Bid for the opening of bids.

6. Request for Interpretation.

Any person who plans to bid on the project may submit to Scull Construction a written request for an interpretation of any part of the Plans and Specifications or Contract Documents. Requests for interpretations shall be made not less than seven (7) days prior to the opening of bids. Any interpretation will be in writing and furnished to each person receiving Plans and Specifications for bidding. Scull Construction will not be responsible for any other explanation or interpretation for questions asked within five (5) days of the bid opening.

7. Or Equal.

Whenever a material, article, or piece of equipment is identified on the Plans or in the Specifications by reference to manufacturers' or vendors' names, trade names, catalogue numbers, etc., it is intended merely to establish a standard; and any materials, article, or equipment of other manufacturers and vendors which will perform adequately the duties imposed by the general design will be considered equally acceptable provided the performance requirements are met and the material, article, or equipment so proposed is, in the opinion of the Architect and Construction Manager, of equal substance and functions.

PRE-BID SUBSTITUTION - Any material or product that a bidder wishes to use that has not been identified as acceptable by the contract documents, should be submitted for approval prior to the bid to eliminate the risk of it not being approved during the submittal process. Any substitution request must be submitted to the Construction Manager fourteen (14) days prior to the bid opening. If deemed acceptable, an addendum will be issued stating its approval.

8. Opening of Bids.

Bids will be received until the time for opening designated in the Invitation to Bid. All bids received within the designated time will be opened in a public bid opening at the time designated in the Invitation to Bid.

9. Relief from Mistake in Bid.

A bidder claiming a mistake in a bid must give Scull Construction written notice of the alleged mistake within five calendar days after the bids are opened, specifying in detail how the mistake occurred. Relief will only be granted for clerical or mathematical mistakes which can be documented to the satisfaction of the Construction Manager (CM) and Owner.

10. Consideration of Bids.

At the time of opening bids, the CM will verify the bidder's workload capacity to determine if it is sufficient to handle the work for which the bidder submitted a bid proposal on. The Owner and/or CM reserves the right to refuse to accept a bid for any of the following reasons:

- a) Uncompleted work which the CM/Owner determines may hinder or prevent the prompt completion of addition work;
- b) Failure to pay or satisfactorily settle any legal obligation due for labor or material on any contract at the time of issuance of bid;
- c) Default under any previous contract;

- d) Debarment by the State or the federal government;
- e) Unsatisfactory performance on previous work or any current contract or contracts consisting of, but not limited to:
 - 1. Noncompliance with contract specifications or contract requirements;
 - 2. Failure to complete work on time;
 - 3. Instances of substantial corrective work prior to acceptance;
 - 4. Instances of completed work that requires acceptance at reduced pay;
 - 5. Production of work or materials not meeting required specifications, and when applicable, requiring price reductions or corrective work;
 - 6. Failure to provide adequate safety measures;

The CM/Owner reserves the right to reject any and all bid(s), the right to waive technicalities, and the right to reject all bids and advertise for new bids.

11. Rejection of Bids.

Bids may be rejected if they show any alteration of form, additions not called for, conditional bids, incomplete bids, unexplained erasures, or irregularities of any kind. The Owner may waive any informality in the bids received. When bids are signed by an agent other than an authorized corporate officer or member of a partnership, a power of attorney must be filed with the bid. Otherwise, the bid will be rejected as irregular and unauthorized. If there is reason to believe that collusion among the bidders exists, any or all bids may be rejected. The Owner reserves the right to reject any or all bids if it's in their best interest.

12. Award of Contract.

If the contract is awarded, it will be awarded to the responsible bidder submitting the lowest bid, subject to paragraph 14 below, which complies with the Invitation to Bid and with these instructions. The successful bidder will be notified within forty-five (45) calendar days of the date bids are opened. Subsequent to notice of award, the successful bidder will be presented with a contract agreement. The contract will require the completion of work according to the Plans and Specifications and the Contract Documents. Conditional bids will not be accepted.

All bidders are required to hold submitted price for sixty-zero (60) days following bid opening.

13. Responsibility.

The CM may make such investigations as he/she deems necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish to the CM all such information and data for this purpose as the CM may request. The CM reserves the right to reject any bid if the evidence submitted by, or investigation of, such bidder fails to satisfy the CM that such bidder is properly qualified to carry out the obligations of the contract and to complete the work contemplated therein.

14. Execution of Agreement.

Within ten (10) calendar days after the proposed contract agreement is presented to the successful bidder for execution, the successful bidder must execute the contract documents, and provide a performance and labor and material payment bond if requested.

15. Performance & Labor and Material Payment Bond.

Per the bid form, fill in required information concerning cost of bonding. Once bids have been opened and reviewed, the owner may at their option elect to have the bidding contractor provide bonds at the additional cost indicated on the bid form. This bond is to secure the faithful performance of the contract and the payment of those to whom the bidder may become legally indebted for labor, materials, tools, equipment, or services of any kind used or employed by the bidder in performing the work. The surety bond shall be on the form attached hereto as Exhibit "4". *(Failure on the part of the bidder to furnish such bond in the time stated shall be cause for consideration by the Owner of awarding the Contract to the next responsible bidder.)*

16. Power of Attorney.

Attorneys-in-fact who sign contract bonds must file with each bond a certified and effectively dated copy of their power of attorney.

17. Default.

The failure to execute the contract documents or to furnish bonds required by these instructions within ten (10) calendar days after the proposed contract agreement is presented for execution constitutes a default. In the event of a default, the Owner may award the contract to the next lowest responsible bidder or may re-advertise for bids.

18. Commencement of Work/Time of Completion.

The contractor for the general construction shall commence work under the contract within ten (10) consecutive calendar days after issuance of written Notice to Proceed and shall substantially complete all work under the contract within the timeframe specified in the project schedule.

19. Liquidated Damages.

\$200 per calendar day.

20. Applicable Laws and Regulations.

The bidder's attention is directed to the fact that all applicable South Dakota laws, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the contract throughout and they will be deemed to be included in the contract the same as though herein written out in full.

EXHIBIT “1”

Bidder’s General Requirements

Exhibit 1 – Bidder’s General Requirements

Contractor agrees to diligently process all requirements including permits, approvals, testing, submittals, expedite material deliveries and to supply adequate manpower and resources to complete work on all areas of this project within the project schedule durations. If inadequate progress by contractor is evident, the Construction Manager (CM) may direct that contractor take immediate remedies at no additional cost to CM or the Owner. Contractor further agrees to cooperate and work harmoniously with other trades in achieving these completion dates, and to coordinate the work to avoid compression (to the extent possible) for the benefit of all trades.

General Requirements:

1. Unless noted otherwise, all labor and material for each specification section is to be included for each bid package.
2. Authorized contractor supervision must be onsite while work is being performed.
3. Work may be performed adjacent to existing structures, utilities, landscaping, roads, parking lots, site improvements, etc. Contractor to protect adjacent surfaces, whether interior or exterior, and is responsible to repair, replace, and make whole any damage to said structures done as a result of work associated with this bid package. If deemed expedient to the work, CM will perform repair work and back charge to Contractor.
4. Provide all required pedestrian protection, traffic control and protection including flagman, barricades, signage, etc. as required for the work, and as may be required for protection for equipment access, deliveries and loading.
5. Provide dust and noise control per governing authorities and as shall be required by the CM during the performance of Contractor’s work.
6. Maintain and protect all existing active systems which serve on and off-site facilities which are required to remain in operation. Maintain access to operational components.
7. Protect public improvements including curb, sidewalks, streets, manholes, utilities, etc. required to remain.
8. Coordinate and conduct work to ensure minimum interference with vehicular or pedestrian traffic and to permit unencumbered access to site and adjacent properties.
9. Provide and mark as applicable to the work, all existing underground utility locations. Damage and repair to existing utilities will be the responsibility of the Contractor. Contractor responsible for locating all underground utilities, including fiber optic lines, PRIOR to drilling or excavating. A private contractor is to be used for all private utilities.
10. Contractor will repair, replace, and make whole any damage to existing utilities as a result of work associated with this bid package. If deemed expedient to the work, CM will perform repair work and back charge to Contractor.
11. Contractor to obtain approval from CM prior to shut-down of any existing utilities servicing the campus. Contractor to request approval 48 hours prior to the intended shut-down.
12. Provide all field engineering and layout from benchmarks and base building control (Benchmarks and baseline control is furnished by others). This contractor is responsible for replacement of any damaged benchmarks or base line control or layout work of other trades/packages that is damaged or destroyed by the work of this bid package.
13. Provide all hoisting, material transportation, dunnage, rigging, loading, and unloading etc. as required for the work of this bid package.
14. Each Contractor is responsible for their own working platforms, scaffolding, and equipment necessary to access work.

15. Each Contractor is required to coordinate their work with other Contractors, as directed by the CM, without additional compensation
16. All bid packages are tied to and shall comply with the General Drawing Sheets and associated UL Assembly requirements
17. Field verify and inspect existing conditions and substrates to receive work prior to installation, field verify dimensions that will affect the layout or performance of your work, and confirm preparatory work is complete and acceptable to receive work under your bid package
18. CM will provide dumpsters for typical construction debris accumulated under the work of this contract unless noted otherwise. Materials requiring special disposal requirements to be removed by Contractor
19. Conflicts and duplication in Work: In the case of a duplication of scope responsibility either on Drawings, Specification, or bid package descriptions, the Contractor is responsible to bid the work as called out regardless of potential oversight duplications.
20. Provide flagmen for operation in contact with public traffic for deliveries.

General Safety Requirements:

1. In addition to other safety requirements required elsewhere in this bid package, contractor shall replace or restore any removed safety rails, guards, or fences and the like that are temporarily removed or damaged by the work of this bid package.

General Cleaning Requirements:

1. All bidders shall include cleanup of all waste and debris created by their work scope and as generated by their employees, sub-tier subcontractors and suppliers as directed. All waste shall be accumulated, removed, broken down, compacted and/or bundled and deposited in project dumpsters provided by others. Contractor shall employ (as necessary) adequate personnel whose sole responsibility is the performance of clean-up as described herein. Additionally, each successful contractor shall be responsible for contributing personnel to a composite clean-up crew.
2. Provide all required dewatering, pumping, bailing, squeegeing, mopping, fans, etc., necessary to keep all work areas free of water during performance of work. All discharge shall be in accordance with EPA guidelines or other more stringent jurisdictional and/or Owner requirements. Protect all existing and new finished surfaces from rutting, dirt, debris, stain, mold, and repair all damage resulting from standing or discharged water.

Administration Requirements:

1. Retainage will be withheld from monthly pay applications and the amount of retainage will match the CM's retainage required in their contract with the owner.
2. ProCore will be utilized for electronic document submittal service.
3. Provide samples and mockups as specified. Remove mockups at completion or as directed by the CM.
4. Provide assistance, access, schedule and coordinate with CM for all required testing requirements including obtaining samples and data gathering as required. All field testing

and cost thereof for geotechnical, concrete, asphalt, masonry, and structural steel is provided by others. Costs for any retesting due to failed tests, and/or contractor unpreparedness for tests, will be paid by this work package contractor.

5. Submit to the CM a self-performed, typewritten, pre-punch list for the work of this bid package, or any concealed or in-wall or above ceiling work, as part of contractor's quality control procedures.
6. Provide all warranties as specified.
7. Schedule of values and applications for payment shall be broken down as required by the Owner or CM.
8. Contractor's, subcontractor's, lower tier subcontractor's and supplier's lien releases must be received monthly prior to processing of the following month's application for payment.
9. If contractor needs special power needs, other than a 120v 3-phase, they are to include that in their bid as only standard power hooks up will be required.
10. A Preconstruction Meeting will be held with all parties at the beginning of the project where the project schedule, sequencing, project requirements...etc. will be discussed.
11. Preinstallation meetings will be required for each trade as specified and this meeting will be required to happen before any work can happen on-site.
12. Weekly progress meetings will be held at the job-site where the CM will discuss the project schedule, upcoming scheduled work, safety...etc. All subcontractors working on-site will be required to have at least their lead person on-site attend.
13. Provide all test and balance, start-up, and commissioning reports, Owner training information, record drawings, O&M manuals, etc. as specified. All close-out information is to be submitted as one package.
14. As applicable, provide all required attic stock, extra materials, chemicals, special tools, filters, testing equipment, etc. as indicated and specified.
15. Hot Work Permits: Work activities using and causing sparks and open flame must be coordinated with the CM Site Superintendent and special procedures shall be complied with as directed by the CM.
16. Additional Work: No additional compensation for claimed additional work will be authorized without advanced written authorization from the CM.

General Schedule Requirements:

1. Provide manpower and equipment mobilizations and remobilizations as required for the work of this bid package in accordance with the project schedule, including phasing and interim milestone dates.
2. Coordinate all work with the CM to avoid any delay or interference with other work as applicable.
3. Contractor agrees to meet all schedule requirements in accordance with bid package project schedule. Weekend / overtime work to be performed as required meeting the project schedule at no additional cost; contractor will not be responsible for schedule delays created by other contractors on the project.
4. Work is to be bid based on meeting the project schedule included in contract documents. Bid is NOT to be based on a 40-hour work week. A standard five-day work week (Monday through Friday) is required at a minimum. A four-day ten-hour schedule is not acceptable unless approved by the CM and should not be figured for bidding purposes unless approved in writing prior to bids being due.
5. All deliveries are to be scheduled with the CM 24 hours prior to arrival.

6. Schedule Updates:

- a. Updated schedules will be distributed by the Contractor either via email or through Procore Correspondence tool. Updated schedules must be reviewed by the Subcontractor in a timely manner. The Subcontractor shall notify the Contractor of any issues or concerns with the updated schedules within 48 hours of receipt of updated schedules. Subcontractor acknowledges that interim milestone dates, activity durations, or sequencing shown in the Project Schedule may be updated to reflect project conditions, coordination requirements, or improvements in workflow. Both the Contractor and Subcontractor agree that such schedule updates or adjustments shall not modify or extend the Contract Completion Date established under the Prime Contract unless expressly approved in a written Change Order executed by the Owner and Contractor. Any schedule update issued pursuant to this provision is for coordination and planning only and does not constitute a change in the Contract Time.

7. Project Commitments:

- a. At a minimum, the Subcontractor shall:
 - i. Participate in Pull Planning sessions for all major phases of work. Attendance is required for the Subcontractor's Project Manager and onsite Foreman. Pull Planning will be done with the intent of adjusting workflow sequencing. The Subcontractor must actively collaborate with project stakeholders to improve workflow reliability, minimize waste, and support project goals. While Pull Planning will allow for collaboration, it may require early starts, increased manpower/hours, adjusted stagger/flow, or additional partners to accomplish milestone dates.
 - ii. Create and maintain weekly Make-Ready plans aligning constraints, handoffs, and milestones.
 - iii. Participate in Weekly Work Planning (WWP) sessions
 - iv. Participate in short 15 min Daily Huddles at the time of superintendents choosing.
 - v. Provide weekly task constraints and commitments. Subcontractor shall notify the project team of constraints within 48 hours of identification
 - vi. Track Percent Plan Complete (PPC) (reliable commitment tracking) and reasons for variance.
 - vii. Attend Continuous Improvement / Learning Meetings.
 - viii. Review, Respond, and Sign off on Observations within Procore for Safety, Lean, Quality Corrections, Engineer/Architect Observation Reporting and/or Positive Behavior.
 - ix. Create Daily Log entries within Procore Daily Log tool describing number of workers, hours worked, location, comments regarding what work is being done, and photos of work completed.
 - x. Use provided project templates and software including but not limited to Procore and Outbuild.
- b. Persistent failure to meet any of the above stated commitments may result in escalation and/or corrective action planning.

General Permitting/Code Requirements:

1. General building permit and fee is provided by others; however, all applicable trades must apply, obtain, and pay all fees for all other permits including specialty trade, Infrastructure Development Plan, and similar specialty permits as required by jurisdictional authorities.
2. Provide as applicable to the work all identification including charting, tagging, labeling, marking tape and trace wires, stenciling, and painting as specified, indicated, and /or required by jurisdictional authorities.
3. Provide all licenses, permits, fees, and certifications and arrange for inspections and tests as may be required for the work of this package (Coordinate all inspections and tests through the CM).
4. Coordination of electrical power, control, communication, and fire alarm interface requirements with other trades (includes all division 8, 10, 22, 23 and 26 trades).

EXHIBIT “2”

Bid Form / Bid Packages

Hill City WWTF Improvements
Hill City, South Dakota

BID PACKAGE # 01C – General Construction
August 17, 2026

EXHIBIT “2” - BID FORM
BIDS DUE 9/30/2026 2:00 PM (Mountain Time)

BIDDER _____

Date: _____

To: Scull Construction Service
Attn: Shane Crecelius
803 Industrial Ave.
Rapid City, SD 57702

Phone: 605-342-2379
Fax:
Email: bids@scullconst.com

The undersigned, being familiar with the local conditions affecting the work, and with the Contract Documents, including the Invitation to Bid, Instructions to Bidders, Bidder’s General Requirements, Bid Form, Modification to Bid Form, Performance and Payment Bond, Form of Agreement for Construction, Technical Specifications, Plans and Addenda which govern the purchase of material and labor and the awarding of contracts hereby proposes to do all the work and provide all the material and equipment which pertains to

Hill City WWTF Improvements
Hill City, South Dakota

as provided for in the Plans dated _____ and Specifications dated _____ for the following base bid, payment & performance bond, and alternates:

Base Bid: _____
_____ DOLLARS (\$ _____)

Payment and Performance Bond (P&P Bond):

Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$ _____)

ALTERNATES: Circle Add or Deduct as Applicable (All alternate pricing will be valid for 60 days after bid)

Alternate: N/A

**Hill City WWTF Improvements
BID PACKAGE # 01C – General Construction
August 17, 2026**

If applicable, identify any voluntary alternates or value engineering options in the section below. Include alternate description and cost for each option being presented:

VOLUNTARY ALTERNATES/VALUE ENGINEERING OPTIONS: Circle Add or Deduct as Applicable

Voluntary Alternate #1: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

Voluntary Alternate #2: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

The above bid includes all applicable State and Municipal Sales Taxes on materials.

Within ten (10) days after Contractor's receipt of the Agreement for Construction, the Contractor shall submit to the Construction Manager, the executed Agreement for Construction, Performance and Payment Bond (if required), Certificates of Insurance, and Schedule of Values.

Work shall be commenced within ten (10) consecutive calendar days after written Notice to Proceed by the Construction Manager and shall be completed per the attach schedule.

The undersigned acknowledges receipt of the following addenda to the drawings and/or specifications (give number and date of each):

Addenda Nos. _____ dated _____ respectively.

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids and to waive any irregularities. It is further understood by the Bidder that he may not withdraw his Bid within **60** after the actual opening thereof.

Hill City WWTF Improvements
BID PACKAGE # 01C – General Construction
August 17, 2026

BIDDER:		(Type Name of Firm)
BY:		(Signature of Firm's Representative)
		(Type Name and Title of Firm's Representative)
TELEPHONE NO.		
FACSIMILE NO.		
E-MAIL ADDRESS		
BUSINESS ADDRESS		
STATE OF INCORPORATION		

SCOPE SUMMARY:

DIVISION 00	- PROCUREMENT AND CONTRACTING REQUIREMENTS,	As Applicable;
DIVISION 01	- GENERAL REQUIREMENTS,	As Applicable;
Section 02 42 00	REMOVAL AND SALVAGE OF CONSTRUCTION MATERIALS	As Applicable;
Section 07 41 13	METAL ROOF PANELS	Complete;
Section 07 62 00	SHEET METAL FLASHING AND TRIM	As Applicable;
Section 08 11 13	HOLLOW METAL DOORS AND FRAMES (Install Only)	Complete;
Section 08 16 13	FIBERGLASS REINFORCED DOOR AND FRAMES (Install Only)	Complete;
Section 08 31 00	FLOOR ACCESS HATCHES	Complete;
Section 08 71 00	DOOR HARDWARE (Install Only)	Complete;
Section 10 44 16	FIRE EXTINGUISHERS	Complete;
Section 32 31 13	FENCES AND GATES	Complete;
LEGENDS, NOTES & SCHEDULES PER DOCUMENTS,		As Applicable;

In the event of a conflict or ambiguity between the following "clarifications" to the scopes of Work and the contract documents, the contract documents shall control. The following "Scope Clarifications" are intended to emphasize, amplify, and clarify the work of this package, and does not supersede the contract documents or in any way list every item of work required by the contract documents for completion of this work package.

THIS BID PACKAGE SHALL NOT BE MODIFIED IN ANY WAY. WHEN SUBMITTING A BID, THIS CONTRACTOR AGREES TO ALL INCLUSIONS, TERMS, AND CONDITIONS, INCLUDED HEREIN. THIS BID PACKAGE WILL BE

Hill City WWTF Improvements
BID PACKAGE # 01C – General Construction
August 17, 2026

USED AS THE SCOPE INCLUSIONS IN ITS ENTIRETY FOR THE FINAL SUBCONTRACT AGREEMENT.

Terminology

Owner shall mean City of Hill City

Construction Manager (CM) shall mean Scull Construction Service

Contractor shall mean work package Bidder (*Prime Contractor per CM G.C. agreement*)

GENERAL SCOPE OF WORK INCLUSIONS:

Includes, but is not limited to, providing all the necessary labor, materials, tools, supplies, supervision, insurance, equipment, scaffolding, hoisting, fees, etc. necessary to provide the above listed scope of work in accordance with the Contract Documents. It is further understood and agreed that this Work Package also includes the furnishing and installation of the below listed items regardless of whether or not they are in the listed specification section(s) or any other specification section(s), or shown on the plans. Drawing and detail references are provided for reference only and are not to be considered as all-inclusive of Contract Documents for the particular items referenced. (Please note: The word “provide” when used herein shall mean furnish and install completely, including all costs for labor, materials, equipment, hoisting, layout, scaffolding, ladders, staging, tools, rigging and any other facilities necessary to complete the work.”)

SCOPE OF WORK INCLUSIONS:

1. Project Specific Notes:

- Contractor to review the project schedule, issued with the Construction Manager’s Bid Manual, and include all necessary equipment and labor to meet the durations shown in the schedule for this scope of work
- Bidders to review the project schedule, and include all necessary equipment and manpower to meet the durations shown for this scope of work.
- Bidder shall review the Davis Bacon Wage Determine specification section and include all costs associated with the requirement
- Davis Bacon Wages Apply
 - Certified payroll will be required to be submitted weekly

2. Rough Carpentry Material Supply and Installation included, but not limited to the following:

- Provide all rough and exterior carpentry per the contract documents
- Provide all wood blocking, cants., and storefront/aluminum window blocking:
 - Include provide all flashings on wood blocking for these items as required
- Provide all parapet blocking and sheathing
- Provide all miscellaneous flashings as required not being carried by other bid packages
- Provide all pressure treated material in contact with concrete, masonry, and steel as required
- Provide all accessories including but not limited to:
 - Fasteners, anchors, bolts, and hardware to fasten materials as required

3. Metal Roofing Material Supply and Installation included, but not limited to the following:

- Provide all metal roof and wall panels complete per the contract documents
- Metal Roof Panel Systems:
 - Provide all metal roof panels as required
 - Provide all snow guards as required
 - Provide weather barrier beneath metal roof panel assemblies as required

Hill City WWTF Improvements
BID PACKAGE # 01C – General Construction
August 17, 2026

- Provide all associated trims and flashings including:
 - Cleats, aprons, rake trims, sidewall flashings, counter flashings, ridge venting...etc.
 - All other materials required to provide a complete system
- Provide all plumbing & electrical penetrations boots as required
- Provide all joint sealants as per the manufacture requirements

•

4. Finish Carpentry INSTALLATION included, but not limited to the following:

- Install all finish carpentry complete per the contract documents:
 - Excluding wood base trim
- Install all casework bases, uppers, and tall cabinets
- Install all floating shelves
- Install all countertops with supports/braces including:
 - Plastic laminate and solid surface
- Install all miscellaneous wood trims as required including:
 - Wood trim at column recesses
 - Wood trim at slat walls
- Provide all caulking of items installed in this package
 - Provide all additional accessories/hardware needing for installation of these items

5. Hollow/Fiberglass Door Frame INSTALLATION included, but not limited to the following:

- Install all hollow/Fiberglass door frames complete per the contract documents

6. Specialty Material and Supply included, but not limited to the following:

- Supply and Install all specialties complete per the contract documents including:
 - fire protection specialties
- Supply and Install of all Access Hatches per specifications

7. Supply and Install including, but not limited to the following:

- Provide all fencing and gates complete per the contract documents including:
 - All post excavation and concrete or post mounted brackets to concrete
 - All fencing and gates
 - All fence posts, horizontal members, and panels
 - All caps, hinges, locks, latches, anchors, and misc. hardware

8. Contractor to include all applicable City and State sales taxes

SCOPE OF WORK EXCLUSIONS:

1. Hollow Metal Frame Material Supply

END OF BID PACKAGE

Hill City WWTF Improvements
Hill City, South Dakota

BID PACKAGE # 02A – Construction Staking
August 17, 2026

EXHIBIT “2” - BID FORM
BIDS DUE 9/30/2026 2:00 PM (Mountain Time)

BIDDER _____

Date: _____

To: Scull Construction Service
Attn: Shane Crecelius
803 Industrial Ave.
Rapid City, SD 57702

Phone: 605-342-2379
Fax:
Email: bids@scullconst.com

The undersigned, being familiar with the local conditions affecting the work, and with the Contract Documents, including the Invitation to Bid, Instructions to Bidders, Bidder’s General Requirements, Bid Form, Modification to Bid Form, Performance and Payment Bond, Form of Agreement for Construction, Technical Specifications, Plans and Addenda which govern the purchase of material and labor and the awarding of contracts hereby proposes to do all the work and provide all the material and equipment which pertains to

Hill City WWTF Improvements
Hill City, South Dakota

as provided for in the Plans dated _____ and Specifications dated _____ for the following base bid, payment & performance bond, and alternates:

Base Bid: _____

_____ DOLLARS (\$ _____)

Payment and Performance Bond (P&P Bond):

Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$ _____)

ALTERNATES: Circle Add or Deduct as Applicable (All alternate pricing will be valid for 60 days after bid)

Alternate: N/A

If applicable, identify any voluntary alternates or value engineering options in the section below. Include alternate description and cost for each option being presented:

Hill City WWTF Improvements
BID PACKAGE # 02A – Construction Staking
August 17, 2026

VOLUNTARY ALTERNATES/VALUE ENGINEERING OPTIONS: Circle Add or Deduct as Applicable

Voluntary Alternate #1: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

Voluntary Alternate #2: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

The above bid includes all applicable State and Municipal Sales Taxes on materials.

Within ten (10) days after Contractor's receipt of the Agreement for Construction, the Contractor shall submit to the Construction Manager, the executed Agreement for Construction, Performance and Payment Bond (if required), Certificates of Insurance, and Schedule of Values.

Work shall be commenced within ten (10) consecutive calendar days after written Notice to Proceed by the Construction Manager and shall be completed per the attached schedule.

The undersigned acknowledges receipt of the following addenda to the drawings and/or specifications (give number and date of each):

Addenda Nos. _____ dated _____ respectively.

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids and to waive any irregularities. It is further understood by the Bidder that he may not withdraw his Bid within **60** after the actual opening thereof.

Hill City WWTF Improvements
BID PACKAGE # 02A – Construction Staking
August 17, 2026

BIDDER: _____ (Type Name of Firm)
BY: _____ (Signature of Firm's Representative)
_____ (Type Name and Title of Firm's Representative)
TELEPHONE NO. _____
FACSIMILE NO. _____
E-MAIL ADDRESS _____
BUSINESS ADDRESS _____ _____
STATE OF INCORPORATION _____

SCOPE SUMMARY:

DIVISION 00	- PROCUREMENT AND CONTRACTING REQUIREMENTS,	As Applicable;
DIVISION 01	- GENERAL REQUIREMENTS,	As Applicable;
DIVISION 03	- CONCRETE,	As Applicable;
DIVISION 31	- Earthwork,	As Applicable;
DIVISION 32	- Exterior Improvements,	As Applicable;
DIVISION 33	- Utilities,	As Applicable;
LEGENDS, NOTES & SCHEDULES PER DOCUMENTS,		As Applicable;
GEOTECHNICAL INVESTIGATION,		As Applicable;

In the event of a conflict or ambiguity between the following "clarifications" to the scopes of Work and the contract documents, the contract documents shall control. The following "Scope Clarifications" are intended to emphasize, amplify, and clarify the work of this package, and does not supersede the contract documents or in any way list every item of work required by the contract documents for completion of this work package.

THIS BID PACKAGE SHALL NOT BE MODIFIED IN ANY WAY. WHEN SUBMITTING A BID, THIS CONTRACTOR AGREES TO ALL INCLUSIONS, TERMS, AND CONDITIONS, INCLUDED HEREIN. THIS BID PACKAGE WILL BE USED AS THE SCOPE INCLUSIONS IN ITS ENTIRETY FOR THE FINAL SUBCONTRACT AGREEMENT.

Terminology

Owner shall mean City of Hill City

Hill City WWTF Improvements
BID PACKAGE # 02A – Construction Staking
August 17, 2026

Construction Manager (CM) shall mean Scull Construction Service
Contractor shall mean work package Bidder (*Prime Contractor per CM G.C. agreement*)

GENERAL SCOPE OF WORK INCLUSIONS:

Includes, but is not limited to, providing all the necessary labor, materials, tools, supplies, supervision, insurance, equipment, scaffolding, hoisting, fees, etc. necessary to provide the above listed scope of work in accordance with the Contract Documents. It is further understood and agreed that this Work Package also includes the furnishing and installation of the below listed items regardless of whether or not they are in the listed specification section(s) or any other specification section(s), or shown on the plans. Drawing and detail references are provided for reference only and are not to be considered as all inclusive of Contract Documents for the particular items referenced. (Please note: The word “provide” when used herein shall mean furnish and install completely, including all costs for labor, materials, equipment, hoisting, layout, scaffolding, ladders, staging, tools, rigging and any other facilities necessary to complete the work.”)

SCOPE OF WORK INCLUSIONS:

1. Project Specific Notes:

- Contractor to review the project schedule, issued with the Construction Manager’s Bid Manual, and include all necessary equipment and labor to meet the durations shown in the schedule for this scope of work
- Bidders to review the project schedule, and include all necessary equipment and manpower to meet the durations shown for this scope of work.
- Bidder shall review the Davis Bacon Wage Determine specification section and include all costs associated with the requirement
- Davis Bacon Wages Apply
 - Certified payroll will be required to be submitted weekly

2. Building/Structures including but not limited too: (PTB, SBR, Electrical Building, Generator Pad) Survey Construction Staking to Include:

- Control points
- Building grid lines and foundation corners
- Finished floor elevations

3. Site Survey Construction Staking to Include:

- Rough grade staking
- Utilities: Storm sewer, sanitary sewer, and water systems staking
 - To include each structure, inlet, manhole, and pipe termination
 - Include 3 trips for Sanitary Sewer, 1 trip for water, and 1 trip for storm sewer
- Roads:
 - Road offsets
 - Bluetop dirt/subgrade staking
 - Bluetop base course staking

4. Contractor required to notify CM prior to performing any re-staking or additional work above and beyond the contract amount

**Hill City WWTF Improvements
BID PACKAGE # 02A – Construction Staking
August 17, 2026**

5. Contractor to include all applicable City and State sales taxes

SCOPE OF WORK EXCLUSIONS:

1. General Building Permits

END OF BID PACKAGE

Hill City WWTF Improvements
Hill City, South Dakota

BID PACKAGE # 02B – Materials Testing
August 17, 2026

EXHIBIT “2” - BID FORM
BIDS DUE 9/30/2026 2:00 PM (Mountain Time)

BIDDER _____

Date: _____

To: Scull Construction Service
Attn: Shane Crecelius
803 Industrial Ave.
Rapid City, SD 57702

Phone: 605-342-2379
Fax:
Email: bids@scullconst.com

The undersigned, being familiar with the local conditions affecting the work, and with the Contract Documents, including the Invitation to Bid, Instructions to Bidders, Bidder’s General Requirements, Bid Form, Modification to Bid Form, Performance and Payment Bond, Form of Agreement for Construction, Technical Specifications, Plans and Addenda which govern the purchase of material and labor and the awarding of contracts hereby proposes to do all the work and provide all the material and equipment which pertains to

Hill City WWTF Improvements
Hill City, South Dakota

as provided for in the Plans dated _____ and Specifications dated _____ for the following base bid, payment & performance bond, and alternates:

Base Bid: _____

_____ DOLLARS (\$ _____)

Payment and Performance Bond (P&P Bond):

Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$ _____)

ALTERNATES: Circle Add or Deduct as Applicable (All alternate pricing will be valid for 60 days after bid)

Alternate: N/A

**Hill City WWTF Improvements
BID PACKAGE # 02B – Materials Testing
August 17, 2026**

If applicable, identify any voluntary alternates or value engineering options in the section below. Include alternate description and cost for each option being presented:

VOLUNTARY ALTERNATES/VALUE ENGINEERING OPTIONS: Circle Add or Deduct as Applicable

Voluntary Alternate #1: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

Voluntary Alternate #2: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

The above bid includes all applicable State and Municipal Sales Taxes on materials.

Within ten (10) days after Contractor's receipt of the Agreement for Construction, the Contractor shall submit to the Construction Manager, the executed Agreement for Construction, Performance and Payment Bond (if required), Certificates of Insurance, and Schedule of Values.

Work shall be commenced within ten (10) consecutive calendar days after written Notice to Proceed by the Construction Manager and shall be completed per the attached schedule.

The undersigned acknowledges receipt of the following addenda to the drawings and/or specifications (give number and date of each):

Addenda Nos. _____ dated _____ respectively.

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids and to waive any irregularities. It is further understood by the Bidder that he may not withdraw his Bid within **60** after the actual opening thereof.

Hill City WWTF Improvements
BID PACKAGE # 02B – Materials Testing
August 17, 2026

BIDDER:		(Type Name of Firm)
BY:		(Signature of Firm's Representative)
		(Type Name and Title of Firm's Representative)
TELEPHONE NO.		
FACSIMILE NO.		
E-MAIL ADDRESS		
BUSINESS ADDRESS		
STATE OF INCORPORATION		

SCOPE SUMMARY:

DIVISION 00	- PROCUREMENT AND CONTRACTING REQUIREMENTS,	As Applicable;
DIVISION 01	- GENERAL REQUIREMENTS,	As Applicable;
DIVISION: 03	- CONCRETE,	As Applicable;
DIVISION: 31	- EARTHWORK,	As Applicable;
DIVISION: 32	- EXTERIOR IMPROVEMENTS,	As Applicable;
DIVISION: 33	- UTILITIES,	As Applicable;
LEGENDS, NOTES & SCHEDULES PER DOCUMENTS,		As Applicable;

In the event of a conflict or ambiguity between the following "clarifications" to the scopes of Work and the contract documents, the contract documents shall control. The following "Scope Clarifications" are intended to emphasize, amplify, and clarify the work of this package, and does not supersede the contract documents or in any way list every item of work required by the contract documents for completion of this work package.

THIS BID PACKAGE SHALL NOT BE MODIFIED IN ANY WAY. WHEN SUBMITTING A BID, THIS CONTRACTOR AGREES TO ALL INCLUSIONS, TERMS, AND CONDITIONS, INCLUDED HEREIN. THIS BID PACKAGE WILL BE USED AS THE SCOPE INCLUSIONS IN ITS ENTIRETY FOR THE FINAL SUBCONTRACT AGREEMENT.

Hill City WWTF Improvements
BID PACKAGE # 02B – Materials Testing
August 17, 2026

Terminology

Owner shall mean City of Hill City

Construction Manager (CM) shall mean Scull Construction Service

Contractor shall mean work package Bidder (*Prime Contractor per CM G.C. agreement*)

GENERAL SCOPE OF WORK INCLUSIONS:

Includes, but is not limited to, providing all the necessary labor, materials, tools, supplies, supervision, insurance, equipment, scaffolding, hoisting, fees, etc. necessary to provide the above listed scope of work in accordance with the Contract Documents. It is further understood and agreed that this Work Package also includes the furnishing and installation of the below listed items regardless of whether or not they are in the listed specification section(s) or any other specification section(s), or shown on the plans. Drawing and detail references are provided for reference only and are not to be considered as all inclusive of Contract Documents for the particular items referenced. (Please note: The word “provide” when used herein shall mean furnish and install completely, including all costs for labor, materials, equipment, hoisting, layout, scaffolding, ladders, staging, tools, rigging and any other facilities necessary to complete the work.”)

SCOPE OF WORK INCLUSIONS:

1. Project Specific Notes:

- Contractor to review the project schedule, issued with the Construction Manager’s Bid Manual, and include all necessary equipment and labor to meet the durations shown in the schedule for this scope of work
- Bidders to review the project schedule, and include all necessary equipment and manpower to meet the durations shown for this scope of work.
- Bidder shall review the Davis Bacon Wage Determine specification section and include all costs associated with the requirement
- Davis Bacon Wages Apply
 - Certified payroll will be required to be submitted weekly

2. Provide all labor and materials for the testing of the following:

- Excavation observations prior to placement of engineered fill and concrete footings
- Field and lab testing of soils and aggregates for the site grading and engineered fill placement
- Field and lab testing of cast-in-place concrete including slump, air content, unit weight, temperature, and compressive strengths
- Structural steel and weld testing as specified
- Asphalt density field testing
- Refer to Specifications for specific testing requirements
- All mileage and travel expenses to be included in this package

3. Contractor is required to notify CM prior to performing any testing services or additional work above and beyond the contract amount

4. Contractor to include all applicable City and State sales taxes

**Hill City WWTF Improvements
BID PACKAGE # 02B – Materials Testing
August 17, 2026**

SCOPE OF WORK EXCLUSIONS:

1. General Building Permits

END OF BID PACKAGE

Hill City WWTF Improvements
Hill City, South Dakota

BID PACKAGE # 03A – Foundation and Site Concrete
August 17, 2026

EXHIBIT “2” - BID FORM
BIDS DUE 9/30/2026 2:00 PM (Mountain Time)

BIDDER _____

Date: _____

To: Scull Construction Service
Attn: Shane Crecelius
803 Industrial Ave.
Rapid City, SD 57702

Phone: 605-342-2379
Fax:
Email: bids@scullconst.com

The undersigned, being familiar with the local conditions affecting the work, and with the Contract Documents, including the Invitation to Bid, Instructions to Bidders, Bidder’s General Requirements, Bid Form, Modification to Bid Form, Performance and Payment Bond, Form of Agreement for Construction, Technical Specifications, Plans and Addenda which govern the purchase of material and labor and the awarding of contracts hereby proposes to do all the work and provide all the material and equipment which pertains to

Hill City WWTF Improvements
Hill City, South Dakota

as provided for in the Plans dated _____ and Specifications dated _____ for the following base bid, payment & performance bond, and alternates:

Base Bid: _____

_____ DOLLARS (\$ _____)

Payment and Performance Bond (P&P Bond):

Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$ _____)

ALTERNATES: Circle Add or Deduct as Applicable (All alternate pricing will be valid for 60 days after bid)

Alternate: N/A

**Hill City WWTF Improvements
BID PACKAGE # 03A – Foundation and Site Concrete
August 17, 2026**

If applicable, identify any voluntary alternates or value engineering options in the section below. Include alternate description and cost for each option being presented:

VOLUNTARY ALTERNATES/VALUE ENGINEERING OPTIONS: Circle Add or Deduct as Applicable

Voluntary Alternate #1: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

Voluntary Alternate #2: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

The above bid includes all applicable State and Municipal Sales Taxes on materials.

Within ten (10) days after Contractor's receipt of the Agreement for Construction, the Contractor shall submit to the Construction Manager, the executed Agreement for Construction, Performance and Payment Bond (if required), Certificates of Insurance, and Schedule of Values.

Work shall be commenced within ten (10) consecutive calendar days after written Notice to Proceed by the Construction Manager and shall be completed per the attached schedule.

The undersigned acknowledges receipt of the following addenda to the drawings and/or specifications (give number and date of each):

Addenda Nos. _____ dated _____ respectively.

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids and to waive any irregularities. It is further understood by the Bidder that he may not withdraw his Bid within **60** after the actual opening thereof.

Hill City WWTF Improvements
BID PACKAGE # 03A – Foundation and Site Concrete
August 17, 2026

BIDDER:	
	(Type Name of Firm)
BY:	
	(Signature of Firm's Representative)
	(Type Name and Title of Firm's Representative)
TELEPHONE NO.	
FACSIMILE NO.	
E-MAIL ADDRESS	
BUSINESS ADDRESS	
STATE OF INCORPORATION	

SCOPE SUMMARY:

DIVISION 00	- PROCUREMENT AND CONTRACTING REQUIREMENTS,	As Applicable;
DIVISION 01	- GENERAL REQUIREMENTS,	As Applicable;
Section 03 01 00	MAINTENANCE OF CONCRETE	Complete;
Section 03 10 00	CONCRETE FORMING AND ACCESSORIES	Complete;
Section 03 20 00	CONCRETE REINFORCING	Complete;
Section 03 30 00	CAST-IN-PLACE CONCRETE	Complete;
Section 03 35 43	POLISHED CONCRETE FINISHING	Complete;
Section 03 41 13	PRECAST CONCRETE HOLLOW CORE PLANKS (Install Only)	Complete;
Section 03 45 00	PRECAST ARCHITECTURAL CONCRETE	Complete;
Section 03 96 90	WATER TIGHTNESS TEST OF HYDRAULIC STRUCTURES	Complete;
Section 32 13 13	CONCRETE PAVEMENT	Complete;
Section 32 16 13	CURBS, GUTTERS, AND SIDEWALKS	Complete;
Section 32 39 14	SIGNAGE AND BOLLARDS (Install Only)	Complete;
LEGENDS, NOTES & SCHEDULES PER DOCUMENTS,		As Applicable;
GEOTECHNICAL ENGINEERING REPORT,		As Applicable;

In the event of a conflict or ambiguity between the following "clarifications" to the scopes of Work and the contract documents, the contract documents shall control. The following "Scope Clarifications" are intended to emphasize, amplify, and clarify the work of this package, and does not supersede the contract documents or in any way list every item of work required by the contract documents for

Hill City WWTF Improvements
BID PACKAGE # 03A – Foundation and Site Concrete
August 17, 2026

completion of this work package.

THIS BID PACKAGE SHALL NOT BE MODIFIED IN ANY WAY. WHEN SUBMITTING A BID, THIS CONTRACTOR AGREES TO ALL INCLUSIONS, TERMS, AND CONDITIONS, INCLUDED HEREIN. THIS BID PACKAGE WILL BE USED AS THE SCOPE INCLUSIONS IN ITS ENTIRETY FOR THE FINAL SUBCONTRACT AGREEMENT.

Terminology

Owner shall mean City of Hill City

Construction Manager (CM) shall mean Scull Construction Service

Contractor shall mean work package Bidder (*Prime Contractor per CM G.C. agreement*)

GENERAL SCOPE OF WORK INCLUSIONS:

Includes, but is not limited to, providing all the necessary labor, materials, tools, supplies, supervision, insurance, equipment, scaffolding, hoisting, fees, etc. necessary to provide the above listed scope of work in accordance with the Contract Documents. It is further understood and agreed that this Work Package also includes the furnishing and installation of the below listed items regardless of whether or not they are in the listed specification section(s) or any other specification section(s), or shown on the plans. Drawing and detail references are provided for reference only and are not to be considered as all inclusive of Contract Documents for the particular items referenced. (Please note: The word “provide” when used herein shall mean furnish and install completely, including all costs for labor, materials, equipment, hoisting, layout, scaffolding, ladders, staging, tools, rigging and any other facilities necessary to complete the work.”)

SCOPE OF WORK INCLUSIONS:

1. Project Specific Notes:

- Contractor to provide all exterior trench drain frame and grate assemblies
- Contractor to provide all interior trench drain frame and grate assemblies
- Contractor to provide all self-adhered Damp-proofing membrane system at concrete steam wall location as required
- Contractor to review the project schedule, issued with the Construction Manager’s Bid Manual, and include all necessary equipment and labor to meet the durations shown in the schedule for this scope of work
- Bidders to review the project schedule, and include all necessary equipment and manpower to meet the durations shown for this scope of work.
- Bidder shall review the Davis Bacon Wage Determine specification section and include all costs associated with the requirement
- Davis Bacon Wages Apply
 - Certified payroll will be required to be submitted weekly
- Include \$45,000.00 for crane service in this bid package (required)
 - Include \$85.00 per hour for an operator.
 - Monthly crane rental by GC
 - Due to tight nature of site the subcontractors crane will not be permitted on site.

2. Foundations and flatwork including, but not limited to the following:

- All building cast-in-place concrete complete per the contract documents
- All concrete drilled piers:
 - Drilling of piers

Hill City WWTF Improvements
BID PACKAGE # 03A – Foundation and Site Concrete
August 17, 2026

- Spoils removal
 - Setting of rebar cages
 - Placement of concrete in drilled piers
 - All grade beams
 - All continuous footings and pad footings
 - All foundation walls, stoop walls, piers/pilasters, and the following:
 - Setting of all anchor bolts/embeds
 - Anchor bolts/embeds provided by others
 - Rigid foundation insulation
 - Grouting of all base plates
 - Bituminous painting of base plates and bottoms of columns
 - Dampproofing
 - All slab-on-grade and slab-on-deck, stoops, and the following:
 - Vapor barrier
 - Slab insulation
 - All concrete reinforcement
 - All joint sealants and caulking as required
 - All polished and sealed concrete as required
- 3. Site concrete including, but not limited to the following:**
- All site cast-in-place concrete complete per the contract documents
 - Concrete paving
 - Curbs, gutters, and valley pans/gutters
 - Sidewalks
 - Bollards (bollard material by others):
 - Include setting of bollards
 - Include concrete bollard footings
 - Include filling bollards with concrete
 - Detectable warning panels
 - All joint sealants and caulking as required
 - All site concrete reinforcement
 - All exterior trench drain frame and grate assemblies
 - Exterior equipment pads?
- 4. Precast Concrete ERECTION included, but not limited to the following:**
- Erection of all precast concrete complete per the contract documents
 - Erection of all anchors, bolts, washers, shims, fasteners, and connection devices
 - Erection of all temporary bracing (including any concrete deadmen) of precast prior to setting of structural steel elements:
 - Removal of temporary bracing after structural steel elements have been set
 - Grouting of all items installed within this scope of work
 - Provide and remove all necessary guard rails for all contractor's use per OSHA's standards
 - Wash down and cleaning of the interior and exterior of all precast installed
 - Provide erection plan and coordinate that plan with CM prior to mobilizing to the site
 - steel on the inside of the gym.

Hill City WWTF Improvements
BID PACKAGE # 03A – Foundation and Site Concrete
August 17, 2026

- Erection contractor to provide the following:
 - Lift plans for all critical picks
 - Rigging plan (including hardware inspection protocol)
 - Crane placement and outrigger mat plan
 - Panel pick point verification
 - Wind speed monitoring protocol and shutdown criteria
 - Exclusion zones beneath picks
 - Fall protection for panel connections
 - Daily inspection logs for harnesses and lanyards
 - Rescue plan for fall arrest incidents
 - Certified crane operators (NCCCO or equivalent)
 - Signal person certification
 - Rigger qualification documentation
 - Daily crane inspection logs
 - Annual crane inspection certification
 - 100% barricading of swing radius

5. General Notes:

- It is the responsibility of this contractor to ensure that the aggregate base course provided by others (installed to +/- .10') is sufficient and correct before commencing work
 - Any issues must be brought to the Construction Manager (CM) prior to work commencing
 - The last .10' will be installed by this bidder from an onsite stockpile
 - All blue topping or fine grading to be done under this contract
- All concrete reinforcing including:
 - All reinforcing steel bars and wire mesh reinforcing
 - All dowels (smooth or deformed) and greasing
 - All bolsters, hangers, chairs, runners, slip caps, spacers...etc.
 - All drilling and epoxying as required
 - Provide and place required safety measures for rebar (Caps)
- All concrete formwork including:
 - All required bracing, supports, shoring, and re-shoring
 - All supplementary formwork for:
 - Construction joint covers recesses
 - Raised areas
 - Chamfers, keyways; openings in forms, pit forms...etc.
 - Form savers
 - Form liners
 - All miscellaneous formwork as shown or specified
 - Includes any required formwork engineering where specified or required by ACI
- All concrete accessories indicated including:
 - Void forms and Styrofoam fill
 - Water stops, reglets, and dovetail slots
 - Bonding agents
 - Contraction and construction controls
 - Expansion joints, isolation joints, fillers and bond breakers

Hill City WWTF Improvements
BID PACKAGE # 03A – Foundation and Site Concrete
August 17, 2026

- Placement of the following (provided by others):
 - Anchor bolts, embeds, sleeves, bollards, and steel assemblies casted-in-place
 - Other embedded items or anchors including furnishing of required templates.
 - ***All costs to correct omitted or misplaced embedded assemblies shall be borne by this contractor***
 - All required layout of items within this bid package:
 - Gridlines and benchmarks to be provided by CM
 - Including embeds and finish elevations of all concrete
 - Provide all concrete finishes as required
 - Grout all base plates, anchor bolt assemblies, and recesses as required:
 - Clean and repair areas prior to grouting
 - Contractor to include all cold or hot weather concrete work as specified including:
 - Hot water, ice, enclosures, fog sprayers, protection, temporary heating...etc.
 - Provide all concrete materials, additives, and admixtures as required:
 - Contractor to review project schedule to determine necessary admixtures accordingly
 - Provide all concrete curing and protection
 - Coordinate and provide curing materials/methods compatible with floor finish materials and waterproofing
 - Cure all slabs receiving finished products, seals, and stains in accordance with specifications and as recommended by manufacturer
 - Clean-up and dispose of all waste including:
 - Concrete waste, debris, trash, detrimental soils, and spoils
 - Concrete waste to be confined to an area approved by the CM:
 - This area is to be periodically cleaned as directed by the CM
 - Upon completion remove and legally dispose of concrete waste area
 - All unacceptable materials to be removed from the site
 - Concrete waste area to be restored in per the documents and accepted by the CM
 - Clean and remove the following during the placing of concrete and stripping of forms:
 - Concrete spillage, drippings, laitance, dried concrete films...etc.
 - All new areas are to be broom cleaned of this debris
 - Includes cleaning and/or protection of masonry and all other work from concrete splatters or drippings
 - All formwork, metal decks, pour areas of any nature to be inspected by the CM prior to any concrete placement.
 - Costs to correct the following, if found to be non-conforming, shall be borne by this contractor:
 - Required patching, leveling, and grinding of slabs or slab finishes
 - Elevated formed surfaces that are out of tolerance or because of form failure
 - Provide all interior and site joint sealants as required.
 - Coordinated the wet setting of shear wall hold down anchor bolts with Bid Package 6A Rough Carpentry
6. Contractor to include all applicable City and State sales taxes

SCOPE OF WORK EXCLUSIONS:

1. Materials Testing

Hill City WWTF Improvements
BID PACKAGE # 03A – Foundation and Site Concrete
August 17, 2026

2. Base Course Material Supply
3. Supply of Anchor Bolts/Embeds

END OF BID PACKAGE

Hill City WWTF Improvements
Hill City, South Dakota

BID PACKAGE # 03B – Precast Concrete Supply Only
August 17, 2026

EXHIBIT “2” - BID FORM
BIDS DUE 9/30/2026 2:00 PM (Mountain Time)

BIDDER _____

Date: _____

To: Scull Construction Service
Attn: Shane Crecelius
803 Industrial Ave.
Rapid City, SD 57702

Phone: 605-342-2379
Fax:
Email: bids@scullconst.com

The undersigned, being familiar with the local conditions affecting the work, and with the Contract Documents, including the Invitation to Bid, Instructions to Bidders, Bidder's General Requirements, Bid Form, Modification to Bid Form, Performance and Payment Bond, Form of Agreement for Construction, Technical Specifications, Plans and Addenda which govern the purchase of material and labor and the awarding of contracts hereby proposes to do all the work and provide all the material and equipment which pertains to

Hill City WWTF Improvements
Hill City, South Dakota

as provided for in the Plans dated _____ and Specifications dated _____ for the following base bid, payment & performance bond, and alternates:

BASE BID – Precast Concrete (Hollow Core Only)

_____ DOLLARS (\$_____)

Payment and Performance Bond (P&P Bond): Precast Concrete (Hollow Core Only)

Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$_____)

Hill City WWTF Improvements
 BID PACKAGE # 03B – Precast Concrete
 August 17, 2026

BASE BID – Precast Concrete (Wall Panels Only)

_____ DOLLARS (\$_____)

Payment and Performance Bond (P&P Bond): Precast Concrete (Wall Panels Only)

Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$_____)

BASE BID – Precast Concrete (Hollow Core and Wall Panels Combined)

_____ DOLLARS (\$_____)

Payment and Performance Bond (P&P Bond): Precast Concrete (Hollow Core and Wall Panels Combined)

Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$_____)

Estimated Lead Times of the following (Assume a two-week shop drawing review/approval timeframe once submitted to the CM):

Precast Wall Panels:

_____ weeks

Precast Hollowcore Panels:

_____ weeks

**Hill City WWTF Improvements
BID PACKAGE # 03B – Precast Concrete
August 17, 2026**

If applicable, identify any voluntary alternates or value engineering options in the section below. Include alternate description and cost for each option being presented:

VOLUNTARY ALTERNATES/VALUE ENGINEERING OPTIONS: Circle Add or Deduct as Applicable

Voluntary Alternate #1: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

Voluntary Alternate #2: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

The above bid includes all applicable State and Municipal Sales Taxes on materials.

Within ten (10) days after Contractor's receipt of the Agreement for Construction, the Contractor shall submit to the Construction Manager, the executed Agreement for Construction, Performance and Payment Bond (if required), Certificates of Insurance, and Schedule of Values.

Work shall be commenced within ten (10) consecutive calendar days after written Notice to Proceed by the Construction Manager and shall be completed per the attached schedule.

The undersigned acknowledges receipt of the following addenda to the drawings and/or specifications (give number and date of each):

Addenda Nos. _____ dated _____ respectively.

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids and to waive any irregularities. It is further understood by the Bidder that he may not withdraw his Bid within **60** after the actual opening thereof.

Hill City WWTF Improvements
BID PACKAGE # 03B – Precast Concrete
August 17, 2026

BIDDER: _____ (Type Name of Firm)
BY: _____ (Signature of Firm's Representative)
_____ (Type Name and Title of Firm's Representative)
TELEPHONE NO. _____
FACSIMILE NO. _____
E-MAIL ADDRESS _____
BUSINESS ADDRESS _____ _____
STATE OF INCORPORATION _____

SCOPE SUMMARY:

DIVISION 00	- PROCUREMENT REQUIREMENTS,	As Applicable;
DIVISION 01	- GENERAL REQUIREMENTS,	As Applicable;
Section: 033000	- Cast-in-Place Concrete,	As Applicable;
Section 03 41 13	PRECAST CONCRETE HOLLOW CORE PLANKS (Supply Only)	Complete;
Section 03 45 00	PRECAST ARCHITECTURAL CONCRETE (Supply Only)	Complete;
LEGENDS, NOTES & SCHEDULES PER DOCUMENTS,		As Applicable;
GEOTECHNICAL ENGINEERING REPORT,		As Applicable;

In the event of a conflict or ambiguity between the following "clarifications" to the scopes of Work and the contract documents, the contract documents shall control. The following "Scope Clarifications" are intended to emphasize, amplify, and clarify the work of this package, and does not supersede the contract documents or in any way list every item of work required by the contract documents for completion of this work package.

THIS BID PACKAGE SHALL NOT BE MODIFIED IN ANY WAY. WHEN SUBMITTING A BID, THIS CONTRACTOR AGREES TO ALL INCLUSIONS, TERMS, AND CONDITIONS, INCLUDED HEREIN. THIS BID PACKAGE WILL BE USED AS THE SCOPE INCLUSIONS IN ITS ENTIRETY FOR THE FINAL SUBCONTRACT AGREEMENT.

Hill City WWTF Improvements
BID PACKAGE # 03B – Precast Concrete
August 17, 2026

Terminology

Owner shall mean City of Hill City

Construction Manager (CM) shall mean Scull Construction Service

Contractor shall mean work package Bidder (*Prime Contractor per CM G.C. agreement*)

GENERAL SCOPE OF WORK INCLUSIONS:

Includes, but is not limited to, providing all the necessary labor, materials, tools, supplies, supervision, insurance, equipment, scaffolding, hoisting, fees, etc. necessary to provide the above listed scope of work in accordance with the Contract Documents. It is further understood and agreed that this Work Package also includes the furnishing and installation of the below listed items regardless of whether or not they are in the listed specification section(s) or any other specification section(s), or shown on the plans. Drawing and detail references are provided for reference only and are not to be considered as all inclusive of Contract Documents for the particular items referenced. (Please note: The word “supply” when used herein shall mean furnish completely, including all costs for labor, materials, equipment, delivery to project site and any other facilities necessary to complete the work. Please note: The word “install” when used herein shall mean install completely, including all costs for labor, materials, equipment, hoisting, layout, scaffolding, ladders, staging, tools, rigging and any other facilities necessary to complete the work.)

SCOPE OF WORK INCLUSIONS:

1. Project Specific Notes:

- **Supply contractor to provide coordination and installation of any required in-wall mechanical, electrical, and plumbing items that need to be cast-in-place in precast walls:**
 - **Supply of these items will be the responsibility of the MEP subcontractors**
- **Supply contractor to provide block outs for MEP openings that are 12”x12” or bigger in size**
- **Supply contractor to provide bracing plan with all required design, engineering, and calculations as required**
- Contractor to review the project schedule, issued with the Construction Manager’s Bid Manual, and include all necessary equipment and labor to meet the durations shown in the schedule for this scope of work
- Bidders to review the project schedule, and include all necessary equipment and manpower to meet the durations shown for this scope of work.
- Bidder shall review the Davis Bacon Wage Determine specification section and include all costs associated with the requirement
- Davis Bacon Wages Apply
 - Certified payroll will be required to be submitted weekly

2. Precast Concrete MATERIAL SUPPLY included, but not limited to the following:

- Supply all precast concrete complete per the contract documents
- Provide coordination and installation of any required in-wall electrical items that need to be cast-in-place in precast walls:
 - CM to coordinate with supplier and MEP subcontractors during shop drawing review
 - MEP contractors will be responsible to ship their materials to the supplier’s shop
- Provide block outs for MEP openings that are 12”x12” or bigger in size:
 - Supplier is responsible for reviewing MEP drawings to account for these during bidding

Hill City WWTF Improvements

BID PACKAGE # 03B – Precast Concrete

August 17, 2026

- CM to coordinate with supplier and MEP subcontractors during shop drawing review
 - Supply of all anchor bolts, embeds, bearing pads, and shims
 - Supply all surface finishes as specified
 - Supply all insulation as specified
 - Supply all galvanizing or shop painting of connections as indicated or required
 - Supply all submittals and shop drawings including connection details
 - Supply a bracing plan:
 - Provide all design, engineering, and calculations as required
 - Supply all design, engineering, and calculations as required
 - Supply all other stipulated performance requirements in accordance with documents
 - Supply samples and mockups as specified
 - Remove mockups at completion or as directed by the CM
 - Delivery of all materials to project site
 - Coordinate all deliveries with the CM
 - Suppliers need to include all applicable City and State sales taxes
3. Contractor (both supply and installation) to include all applicable City and State sales taxes

SCOPE OF WORK EXCLUSIONS:

1. General Building Permits

END OF BID PACKAGE

Hill City WWTF Improvements
Hill City, South Dakota

BID PACKAGE # 05A – Miscellaneous Metals
August 17, 2026

EXHIBIT “2” - BID FORM
BIDS DUE 9/30/2026 2:00 PM (Mountain Time)

BIDDER _____

Date: _____

To: Scull Construction Service
Attn: Shane Crecelius
803 Industrial Ave.
Rapid City, SD 57702

Phone: 605-342-2379
Fax:
Email: bids@scullconst.com

The undersigned, being familiar with the local conditions affecting the work, and with the Contract Documents, including the Invitation to Bid, Instructions to Bidders, Bidder’s General Requirements, Bid Form, Modification to Bid Form, Performance and Payment Bond, Form of Agreement for Construction, Technical Specifications, Plans and Addenda which govern the purchase of material and labor and the awarding of contracts hereby proposes to do all the work and provide all the material and equipment which pertains to

Hill City WWTF Improvements
Hill City, South Dakota

as provided for in the Plans dated _____ and Specifications dated _____ for the following base bid, payment & performance bond, and alternates:

BASE BID – Erection Only

_____ DOLLARS (\$_____)

Payment and Performance Bond (P&P Bond): Erection Only

Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$_____)

Hill City WWTF Improvements
BID PACKAGE # 05A – Structural Steel
August 17, 2026

BASE BID –Supply Only

_____ DOLLARS (\$_____)

Payment and Performance Bond (P&P Bond): Supply Only

Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$_____)

BASE BID – Miscellaneous Metals: Combined Supply and Erection Bid

_____ DOLLARS (\$_____)

Payment and Performance Bond (P&P Bond): Combined Supply and Erection

Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$_____)

VOLUNTARY ALTERNATES/VALUE ENGINEERING OPTIONS: Circle Add or Deduct as Applicable

Voluntary Alternate #1: Add/Deduct

DESCRIPTION: _____ Cost (\$_____)

Voluntary Alternate #2: Add/Deduct

DESCRIPTION: _____ Cost (\$_____)

The above bid includes all applicable State and Municipal Sales Taxes on materials.

Within ten (10) days after Contractor's receipt of the Agreement for Construction, the Contractor shall submit to the Construction Manager, the executed Agreement for Construction, Performance and Payment Bond (if required), Certificates of Insurance, and Schedule of Values.

Work shall be commenced within ten (10) consecutive calendar days after written Notice to Proceed by the Construction Manager and shall be completed per the attached schedule.

Hill City WWTF Improvements
BID PACKAGE # 05A – Structural Steel
August 17, 2026

The undersigned acknowledges receipt of the following addenda to the drawings and/or specifications (give number and date of each):

Addenda Nos. _____ dated _____ respectively.

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids and to waive any irregularities. It is further understood by the Bidder that he may not withdraw his Bid within **60** after the actual opening thereof.

BIDDER: _____ (Type Name of Firm)
BY: _____ (Signature of Firm's Representative)
_____ (Type Name and Title of Firm's Representative)
TELEPHONE NO. _____
FACSIMILE NO. _____
E-MAIL ADDRESS _____
BUSINESS ADDRESS _____ _____
STATE OF INCORPORATION _____

SCOPE SUMMARY:

DIVISION 00	- PROCUREMENT AND CONTRACTING REQUIREMENTS,	As Applicable;
DIVISION 01	- GENERAL REQUIREMENTS,	As Applicable;
Section 05 12 00	STRUCTURAL STEEL FRAMING	Complete;
Section 05 50 00	METAL FABRICATIONS	Complete;
Section 05 51 19	METAL GRATING STAIRS AND RAILINGS	Complete;
Section 32 39 14	SIGNAGE AND BOLLARDS	Complete;
LEGENDS, NOTES & SCHEDULES PER DOCUMENTS,		As Applicable;

Hill City WWTF Improvements
BID PACKAGE # 05A – Structural Steel
August 17, 2026

In the event of a conflict or ambiguity between the following “clarifications” to the scopes of Work and the contract documents, the contract documents shall control. The following “Scope Clarifications” are intended to emphasize, amplify, and clarify the work of this package, and does not supersede the contract documents or in any way list every item of work required by the contract documents for completion of this work package.

THIS BID PACKAGE SHALL NOT BE MODIFIED IN ANY WAY. WHEN SUBMITTING A BID, THIS CONTRACTOR AGREES TO ALL INCLUSIONS, TERMS, AND CONDITIONS, INCLUDED HEREIN. THIS BID PACKAGE WILL BE USED AS THE SCOPE INCLUSIONS IN ITS ENTIRETY FOR THE FINAL SUBCONTRACT AGREEMENT.

Terminology

Owner shall mean City of Hill City

Construction Manager (CM) shall mean Scull Construction Service

Contractor shall mean work package Bidder (*Prime Contractor per CM G.C. agreement*)

GENERAL SCOPE OF WORK INCLUSIONS:

Includes, but is not limited to, providing all the necessary labor, materials, tools, supplies, supervision, insurance, equipment, scaffolding, hoisting, fees, etc. necessary to provide the above listed scope of work in accordance with the Contract Documents. It is further understood and agreed that this Work Package also includes the furnishing and installation of the below listed items regardless of whether or not they are in the listed specification section(s) or any other specification section(s), or shown on the plans. Drawing and detail references are provided for reference only and are not to be considered as all-inclusive of Contract Documents for the particular items referenced. (Please note: The word “supply” when used herein shall mean furnish completely, including all costs for labor, materials, equipment, delivery to project site and any other facilities necessary to complete the work. Please note: The word “install” when used herein shall mean install completely, including all costs for labor, materials, equipment, hoisting, layout, scaffolding, ladders, staging, tools, rigging and any other facilities necessary to complete the work.)

SCOPE OF WORK INCLUSIONS:

1. Project Specific Notes:

- Contractor to review the project schedule, issued with the Construction Manager’s Bid Manual, and include all necessary equipment and labor to meet the durations shown in the schedule for this scope of work
- Bidders to review the project schedule, and include all necessary equipment and manpower to meet the durations shown for this scope of work.
- Bidder shall review the Davis Bacon Wage Determine specification section and include all costs associated with the requirement
- Davis Bacon Wages Apply
 - Certified payroll will be required to be submitted weekly
- Include \$85.00 per hour for an operator.
- Monthly crane rental by GC
- Due to tight nature of site the subcontractors crane will not be permitted on site.

Hill City WWTF Improvements
BID PACKAGE # 05A – Structural Steel
August 17, 2026

2. Structural Steel MATERIAL SUPPLY included, but not limited to the following:

- It will be a requirement that the steel supplier, who is awarded this package, will provide their design model to the CM for all items being provided in this package
- Supply all structural steel complete per the contract documents including:
 - Structural columns, beams, trusses, decking...etc.
- Supply all metal fabrications, miscellaneous, loose steel including:
 - Anchor bolts, embed plates, angles...etc.
 - Steel stair assemblies
 - Stair assemblies to be shop assembled as directed by CM prior to fabrication
 - Stair assemblies are **not** to be shipped “loose” requiring extensive field assembly and if suppliers have detailed questions about this, they are to ask RFI to CM prior to bids being due and will not be able to claim additional compensation after the bidding process has completed
 - Structural steel lintels
 - FRP Grating and required accessories
 - Roof access ladders
 - Steel bollards (building and site/civil):
 - As shown on site/civil plans
 - As shown on architectural plans
 - Pipe and tube railings including:
 - Stair/wall mounted
 - Building and site/civil railings
 - All embeds, inserts, and sleeves as required
 - Ornamental steel
 - All anchors, anchor bolts, bolts, washers, shims...etc.
- Supply all submittals and shop drawings including:
 - Connection details
 - Required design and engineering calculations
 - All other stipulated performance requirements in accordance with documents
- Supply all welder certifications:
 - Subcontractor is responsible for costs for welder certifications and any welder re-tests
- Supply all steel or aluminum finishes or galvanizing as indicated or required
- Supply all shop painting and surface preparation of steel as specified
- Delivery of all materials to project site
 - Coordinate all deliveries with the CM
- Suppliers need to include all applicable City and State sales taxes

3. Structural Steel ERECTION included, but not limited to the following:

- Contractor to field verify all existing building components as required for this scope of work
- Erect all structural steel complete per the contract documents including:
 - All equipment as required for a complete installation
 - Structural columns, beams, trusses, decking...etc.
- Erect all metal fabrications, miscellaneous, loose steel including:
 - Anchor bolts, embed plates, angles...etc.
 - Structural steel stair assemblies

Hill City WWTF Improvements
BID PACKAGE # 05A – Structural Steel
August 17, 2026

- FRP Grating
- Structural steel lintels
- Roof top unit support steel
- Roof deck opening support steel
- Roof access ladders
- Pipe and tube railings including:
 - Stair/wall mounted
 - Building and site/civil railings
 - All embeds, inserts, and sleeves as required
- Ornamental steel
- Structural Steel Thermal-Break Assemblies
- All Provide all welder certifications:
 - Subcontractor is responsible for costs for welder certifications and any welder re-tests
- All anchors, epoxy anchors, anchor bolts, bolts, washers, shims, sleeves, expansion bolts, fasteners, connection and attachment devices for securing or erecting of all structural steel elements
- Contractor shall utilize crane mats, shoring, and/or other precautions or routes, when moving any cranes to avoid damage to existing underground utilities or manholes, existing surface paving, and structures, etc.
- Contractor to receive/unload/support off ground on dunnage all structural steel including:
 - All steel, joists, decking, metal fabrications, and appurtenances as necessary:
 - To keep materials free from dirt, mud, soil, damage, and corrosion
 - All damaged, soiled, and corroded materials resulting from inadequate unloading, storage, protection and/or prosecution of the work, as determined by the CM, will be repaired, replaced, and cleaned prior or after installation.
- CM will provide (ONLY to the extent available) limited on-site area for:
 - Shakeout and unloading of structural steel material
 - Contractor will need to cooperate with other trades within space available

4. Safety:

- **Erection contractor to provide the following:**
 - Decking installation procedures
 - Deck bundles placement plan
 - Perimeter cable guardrail installation sequencing
 - Double connection procedures
 - Temporary bracing plan
 - Field welding procedures (including fire watch protocol)
 - Hot work permits
 - Structural stability sequencing
 - Daily inspection logs for harnesses and lanyards
 - Rescue plan for fall arrest incidents
 - Certified crane operators
 - Signal person certification
 - Rigger qualification documentation
 - Daily crane inspection logs

Hill City WWTF Improvements
BID PACKAGE # 05A – Structural Steel
August 17, 2026

- Annual crane inspection certification
 - 100% barricading of swing radius
- **Installation contractor to assist with installation of fall protection measures (angles/nuts/cables for temporary edge railing...etc.); safety materials to be provided by the CM**

5. Contractor (both supply and installation) to include all applicable City and State sales taxes

SCOPE OF WORK EXCLUSIONS:

1. Materials Testing
2. Precast Supply or Installation

END OF BID PACKAGE

Hill City WWTF Improvements
Hill City, South Dakota

BID PACKAGE # 07A – Membrane Roofing
August 17, 2026

EXHIBIT “2” - BID FORM
BIDS DUE 9/30/2026 2:00 PM (Mountain Time)

BIDDER _____

Date: _____

To: Scull Construction Service
Attn: Shane Crecelius
803 Industrial Ave.
Rapid City, SD 57702

Phone: 605-342-2379
Fax:
Email: bids@scullconst.com

The undersigned, being familiar with the local conditions affecting the work, and with the Contract Documents, including the Invitation to Bid, Instructions to Bidders, Bidder's General Requirements, Bid Form, Modification to Bid Form, Performance and Payment Bond, Form of Agreement for Construction, Technical Specifications, Plans and Addenda which govern the purchase of material and labor and the awarding of contracts hereby proposes to do all the work and provide all the material and equipment which pertains to

Hill City WWTF Improvements
Hill City, South Dakota

as provided for in the Plans dated _____ and Specifications dated _____ for the following base bid, payment & performance bond, and alternates:

BASE BID _____
_____ DOLLARS (\$ _____)

Payment and Performance Bond (P&P Bond):

Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$ _____)

ALTERNATES: Circle Add or Deduct as Applicable (All alternate pricing will be valid for 60 days after bid)

Alternate: N/A

**Hill City WWTF Improvements
BID PACKAGE # 07A – Membrane Roofing
August 17, 2026**

If applicable, identify any voluntary alternates or value engineering options in the section below. Include alternate description and cost for each option being presented:

VOLUNTARY ALTERNATES/VALUE ENGINEERING OPTIONS: Circle Add or Deduct as Applicable

Voluntary Alternate #1: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

Voluntary Alternate #2: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

The above bid includes all applicable State and Municipal Sales Taxes on materials.

Within ten (10) days after Contractor's receipt of the Agreement for Construction, the Contractor shall submit to the Construction Manager, the executed Agreement for Construction, Performance and Payment Bond (if required), Certificates of Insurance, and Schedule of Values.

Work shall be commenced within ten (10) consecutive calendar days after written Notice to Proceed by the Construction Manager and shall be completed per the attached schedule.

The undersigned acknowledges receipt of the following addenda to the drawings and/or specifications (give number and date of each):

Addenda Nos. _____ dated _____ respectively.

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids and to waive any irregularities. It is further understood by the Bidder that he may not withdraw his Bid within **60** after the actual opening thereof.

Hill City WWTF Improvements
BID PACKAGE # 07A – Membrane Roofing
August 17, 2026

BIDDER: _____ (Type Name of Firm)
BY: _____ (Signature of Firm's Representative)
_____ (Type Name and Title of Firm's Representative)
TELEPHONE NO. _____
FACSIMILE NO. _____
E-MAIL ADDRESS _____
BUSINESS ADDRESS _____ _____
STATE OF INCORPORATION _____

SCOPE SUMMARY:

DIVISION 00	- PROCUREMENT REQUIREMENTS,	As Applicable;
DIVISION 01	- GENERAL REQUIREMENTS,	As Applicable;
Section 07 53 23	ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING	Complete;
Section 07 62 00	SHEET METAL FLASHING AND TRIM	Complete
LEGENDS, NOTES & SCHEDULES PER DOCUMENTS,		As Applicable;

In the event of a conflict or ambiguity between the following "clarifications" to the scopes of Work and the contract documents, the contract documents shall control. The following "Scope Clarifications" are intended to emphasize, amplify, and clarify the work of this package, and does not supersede the contract documents or in any way list every item of work required by the contract documents for completion of this work package.

THIS BID PACKAGE SHALL NOT BE MODIFIED IN ANY WAY. WHEN SUBMITTING A BID, THIS CONTRACTOR AGREES TO ALL INCLUSIONS, TERMS, AND CONDITIONS, INCLUDED HEREIN. THIS BID PACKAGE WILL BE USED AS THE SCOPE INCLUSIONS IN ITS ENTIRETY FOR THE FINAL SUBCONTRACT AGREEMENT.

Terminology

Owner shall mean City of Hill City
Construction Manager (CM) shall mean Scull Construction Service
Contractor shall mean work package Bidder (*Prime Contractor per CM G.C. agreement*)

Hill City WWTF Improvements
BID PACKAGE # 07A – Membrane Roofing
August 17, 2026

GENERAL SCOPE OF WORK INCLUSIONS:

Includes, but is not limited to, providing all the necessary labor, materials, tools, supplies, supervision, insurance, equipment, scaffolding, hoisting, fees, etc. necessary to provide the above listed scope of work in accordance with the Contract Documents. It is further understood and agreed that this Work Package also includes the furnishing and installation of the below listed items regardless of whether or not they are in the listed specification section(s) or any other specification section(s), or shown on the plans. Drawing and detail references are provided for reference only and are not to be considered as all inclusive of Contract Documents for the particular items referenced. (Please note: The word “provide” when used herein shall mean furnish and install completely, including all costs for labor, materials, equipment, hoisting, layout, scaffolding, ladders, staging, tools, rigging and any other facilities necessary to complete the work.”)

SCOPE OF WORK INCLUSIONS:

1. Project Specific Notes:

- Contractor to review the project schedule, issued with the Construction Manager’s Bid Manual, and include all necessary equipment and labor to meet the durations shown in the schedule for this scope of work
- Bidders to review the project schedule, and include all necessary equipment and manpower to meet the durations shown for this scope of work.
- Bidder shall review the Davis Bacon Wage Determine specification section and include all costs associated with the requirement
- Davis Bacon Wages Apply
 - Certified payroll will be required to be submitted weekly
- Contractor to include reglet cutting into precast for flashing termination
- Contractor to install all acoustical metal decking insulation at required locations:
 - Material provided by others

2. Material Supply and Installation included, but not limited to the following:

- Provide all membrane roofing complete per the contract documents
- All membrane waterproofing and vapor retarders
- All roof insulation, tapered insulation, and cricket insulation
- All sheet metal flashing and trim
- All manufactured roof expansion joints and roof expansion joint material
- All pre-finished parapet cap and rake/eave flashing
- All downspouts and scuppers associated with the membrane roof
- Include all miscellaneous flashing or termination associated with the membrane roof

3. Contractor to include all applicable City and State sales taxes

SCOPE OF WORK EXCLUSIONS:

1. Acoustical Insulation Material Supply

END OF BID PACKAGE

Hill City WWTF Improvements
Hill City, South Dakota

BID PACKAGE # 07G – Joint Sealants
August 17, 2026

EXHIBIT “2” - BID FORM
BIDS DUE 9/30/2026 2:00 PM (Mountain Time)

BIDDER _____

Date: _____

To: Scull Construction Service
Attn: Shane Crecelius
803 Industrial Ave.
Rapid City, SD 57702

Phone: 605-342-2379
Fax:
Email: bids@scullconst.com

The undersigned, being familiar with the local conditions affecting the work, and with the Contract Documents, including the Invitation to Bid, Instructions to Bidders, Bidder's General Requirements, Bid Form, Modification to Bid Form, Performance and Payment Bond, Form of Agreement for Construction, Technical Specifications, Plans and Addenda which govern the purchase of material and labor and the awarding of contracts hereby proposes to do all the work and provide all the material and equipment which pertains to

Hill City WWTF Improvements
Hill City, South Dakota

as provided for in the Plans dated _____ and Specifications dated _____ for the following base bid, payment & performance bond, and alternates:

Base Bid: _____

_____ DOLLARS (\$ _____)

Payment and Performance Bond (P&P Bond):

Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$ _____)

ALTERNATES: Circle Add or Deduct as Applicable (All alternate pricing will be valid for 60 days after bid)

Alternate: N/A

**Hill City WWTF Improvements
BID PACKAGE # 07G – Joint Sealants
August 17, 2026**

If applicable, identify any voluntary alternates or value engineering options in the section below. Include alternate description and cost for each option being presented:

VOLUNTARY ALTERNATES/VALUE ENGINEERING OPTIONS: Circle Add or Deduct as Applicable

Voluntary Alternate #1: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

Voluntary Alternate #2: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

The above bid includes all applicable State and Municipal Sales Taxes on materials, but excludes South Dakota State Excise Taxes.

Within ten (10) days after Contractor's receipt of the Agreement for Construction, the Contractor shall submit to the Construction Manager, the executed Agreement for Construction, Performance and Payment Bond (if required), Certificates of Insurance and Affirmative Action Plan (if applicable).

Work shall be commenced within ten (10) consecutive calendar days after written Notice to Proceed by the Construction Manager and shall be completed per the attach schedule.

The undersigned acknowledges receipt of the following addenda to the drawings and/or specifications (give number and date of each):

Addenda Nos. _____ dated _____ respectively.

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids and to waive any irregularities. It is further understood by the Bidder that he may not withdraw his Bid within 60 after the actual opening thereof.

Hill City WWTF Improvements
BID PACKAGE # 07G – Joint Sealants
August 17, 2026

BIDDER:	
	(Type Name of Firm)
BY:	
	(Signature of Firm's Representative)
	(Type Name and Title of Firm's Representative)
TELEPHONE NO.	
FACSIMILE NO.	
E-MAIL ADDRESS	
BUSINESS ADDRESS	
STATE OF INCORPORATION	

SCOPE SUMMARY:

DIVISION 00	- PROCUREMENT REQUIREMENTS,	As Applicable;
DIVISION 01	- GENERAL REQUIREMENTS,	As Applicable;
Section 03 30 00	CAST-IN-PLACE CONCRETE	As Applicable;
Section 03 41 13	PRECAST CONCRETE HOLLOW CORE PLANKS	As Applicable;
Section 03 45 00	PRECAST ARCHITECTURAL CONCRETE	As Applicable;
Section 07 11 13	BITUMINOUS DAMPPROOFING	Complete;
Section 07 13 26	SELF-ADHERING SHEET WATERPROOFING	Complete;
Section 07 92 00	JOINT SEALANTS	Complete;
LEGENDS, NOTES & SCHEDULES PER DOCUMENTS,		As Applicable;

In the event of a conflict or ambiguity between the following "clarifications" to the scopes of Work and the contract documents, the contract documents shall control. The following "Scope Clarifications" are intended to emphasize, amplify, and clarify the work of this package, and does not supersede the contract documents or in any way list every item of work required by the contract documents for completion of this work package.

THIS BID PACKAGE SHALL NOT BE MODIFIED IN ANY WAY. WHEN SUBMITTING A BID, THIS CONTRACTOR AGREES TO ALL INCLUSIONS, TERMS, AND CONDITIONS, INCLUDED HEREIN. THIS BID PACKAGE WILL BE USED AS THE SCOPE INCLUSIONS IN ITS ENTIRETY FOR THE FINAL SUBCONTRACT AGREEMENT.

Terminology

Hill City WWTF Improvements
BID PACKAGE # 07G – Joint Sealants
August 17, 2026

Owner shall mean City of Hill City

Construction Manager (CM) shall mean Scull Construction Service

Contractor shall mean work package Bidder (*Prime Contractor per CM G.C. agreement*)

GENERAL SCOPE OF WORK INCLUSIONS:

Includes, but is not limited to, providing all the necessary labor, materials, tools, supplies, supervision, insurance, equipment, scaffolding, hoisting, fees, etc. necessary to provide the above listed scope of work in accordance with the Contract Documents. It is further understood and agreed that this Work Package also includes the furnishing and installation of the below listed items regardless of whether or not they are in the listed specification section(s) or any other specification section(s), or shown on the plans. Drawing and detail references are provided for reference only and are not to be considered as all inclusive of Contract Documents for the particular items referenced. (Please note: The word “provide” when used herein shall mean furnish and install completely, including all costs for labor, materials, equipment, hoisting, layout, scaffolding, ladders, staging, tools, rigging and any other facilities necessary to complete the work.”)

SCOPE OF WORK INCLUSIONS:

1. Project Specific Notes:

- Contractor to review the project schedule, issued with the Construction Manager’s Bid Manual, and include all necessary equipment and labor to meet the durations shown in the schedule for this scope of work
- Bidders to review the project schedule, and include all necessary equipment and manpower to meet the durations shown for this scope of work.
- Bidder shall review the Davis Bacon Wage Determine specification section and include all costs associated with the requirement
- Davis Bacon Wages Apply
 - Certified payroll will be required to be submitted weekly
- Contractor to include all firestopping assemblies complete

2. Material Supply and Installation included, but not limited to the following:

- Provide all dampproofing required
- Provided all sheet-waterproofing as required
- Provide all caulking for exterior asphalt, concrete paving, and sidewalks
- Provide all caulking of all interior door frames
- Provide all precast joint sealants

3. Contractor to include all applicable City and State sales taxes

SCOPE OF WORK EXCLUSIONS:

END OF BID PACKAGE

Hill City WWTF Improvements
Hill City, South Dakota

BID PACKAGE # 08B – Doors and Hardware (Supply Only)
August 17, 2026

EXHIBIT “2” - BID FORM
BIDS DUE 9/30/2026 2:00 PM (Mountain Time)

BIDDER _____

Date: _____

To: Scull Construction Service
Attn: Shane Crecelius
803 Industrial Ave.
Rapid City, SD 57702

Phone: 605-342-2379
Fax:
Email: bids@scullconst.com

The undersigned, being familiar with the local conditions affecting the work, and with the Contract Documents, including the Invitation to Bid, Instructions to Bidders, Bidder’s General Requirements, Bid Form, Modification to Bid Form, Performance and Payment Bond, Form of Agreement for Construction, Technical Specifications, Plans and Addenda which govern the purchase of material and labor and the awarding of contracts hereby proposes to do all the work and provide all the material and equipment which pertains to

Hill City WWTF Improvements
Hill City, South Dakota

as provided for in the Plans dated _____ and Specifications dated _____ for the following base bid, payment & performance bond, and alternates:

BASE BID – Hollow Metal Frames and Doors, Flush Wood Doors, and Hardware: Supply Only

_____ DOLLARS (\$ _____)

Payment and Performance Bond (P&P Bond):

Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$ _____)

VOLUNTARY ALTERNATES/VALUE ENGINEERING OPTIONS: Circle Add or Deduct as Applicable

Voluntary Alternate #1: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

Voluntary Alternate #2: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

**Hill City WWTF Improvements
BID PACKAGE # 08B – Doors and Hardware
August 17, 2026**

The above bid includes all applicable State and Municipal Sales Taxes on materials.

Within ten (10) days after Contractor's receipt of the Agreement for Construction, the Contractor shall submit to the Construction Manager, the executed Agreement for Construction, Performance and Payment Bond (if required), Certificates of Insurance, and Schedule of Values.

Work shall be commenced within ten (10) consecutive calendar days after written Notice to Proceed by the Construction Manager and shall be completed per the attached schedule.

The undersigned acknowledges receipt of the following addenda to the drawings and/or specifications (give number and date of each):

Addenda Nos. _____ dated _____ respectively.

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids and to waive any irregularities. It is further understood by the Bidder that he may not withdraw his Bid within **60** after the actual opening thereof.

BIDDER: _____ (Type Name of Firm)
BY: _____ (Signature of Firm's Representative)
_____ (Type Name and Title of Firm's Representative)
TELEPHONE NO. _____
FACSIMILE NO. _____
E-MAIL ADDRESS _____
BUSINESS ADDRESS _____ _____
STATE OF INCORPORATION _____

Hill City WWTF Improvements
BID PACKAGE # 08B – Doors and Hardware
August 17, 2026

SCOPE SUMMARY:

DIVISION 00	- PROCUREMENT AND CONTRACTING REQUIREMENTS,	As Applicable;
DIVISION 01	- GENERAL REQUIREMENTS,	As Applicable;
Section 08 11 13	HOLLOW METAL DOORS AND FRAMES (Supply Only)	Complete;
Section 08 16 13	FIBERGLASS REINFORCED DOOR AND FRAMES (Supply Only)	Complete;
Section 08 71 00	DOOR HARDWARE (Supply Only)	Complete;
LEGENDS, NOTES & SCHEDULES PER DOCUMENTS,		As Applicable;

In the event of a conflict or ambiguity between the following “clarifications” to the scopes of Work and the contract documents, the contract documents shall control. The following “Scope Clarifications” are intended to emphasize, amplify, and clarify the work of this package, and does not supersede the contract documents or in any way list every item of work required by the contract documents for completion of this work package.

THIS BID PACKAGE SHALL NOT BE MODIFIED IN ANY WAY. WHEN SUBMITTING A BID, THIS CONTRACTOR AGREES TO ALL INCLUSIONS, TERMS, AND CONDITIONS, INCLUDED HEREIN. THIS BID PACKAGE WILL BE USED AS THE SCOPE INCLUSIONS IN ITS ENTIRETY FOR THE FINAL SUBCONTRACT AGREEMENT.

Terminology

Owner shall mean City of Hill City

Construction Manager (CM) shall mean Scull Construction Service

Contractor shall mean work package Bidder (*Prime Contractor per CM G.C. agreement*)

GENERAL SCOPE OF WORK INCLUSIONS:

Includes, but is not limited to, providing all the necessary labor, materials, tools, supplies, supervision, insurance, equipment, scaffolding, hoisting, fees, etc. necessary to provide the above listed scope of work in accordance with the Contract Documents. It is further understood and agreed that this Work Package also includes the furnishing and installation of the below listed items regardless of whether or not they are in the listed specification section(s) or any other specification section(s), or shown on the plans. Drawing and detail references are provided for reference only and are not to be considered as all inclusive of Contract Documents for the particular items referenced. (Please note: The word “supply” when used herein shall mean furnish completely, including all costs for labor, materials, equipment, delivery to project site and any other facilities necessary to complete the work. Please note: The word “install” when used herein shall mean install completely, including all costs for labor, materials, equipment, hoisting, layout, scaffolding, ladders, staging, tools, rigging and any other facilities necessary to complete the work.)

SCOPE OF WORK INCLUSIONS:

1. Project Specific Notes:

- Contractor to review the project schedule, issued with the Construction Manager’s Bid Manual, and include all necessary equipment and labor to meet the durations shown in the schedule for this scope of work
- Bidders to review the project schedule, and include all necessary equipment and manpower to meet the durations shown for this scope of work.

Hill City WWTF Improvements
BID PACKAGE # 08B – Doors and Hardware
August 17, 2026

- Bidder shall review the Davis Bacon Wage Determine specification section and include all costs associated with the requirement
 - Davis Bacon Wages Apply
 - Certified payroll will be required to be submitted weekly
- 2. Hollow Metal Frames and Doors, Flush Wood Doors, and Hardware MATERIAL SUPPLY included, but not limited to the following:**
- Supply all hollow metal door frames, doors, and all fiberglass doors, and frames, and all hardware complete per the contract documents including:
 - Frames:
 - Include preparation of frames to receive indicated hardware
 - All factory finishing, hardware, keying and keys.
 - Supplier to include a keying meeting held with Owner, Architect, and CM
 - Coordinate with Division 26 Electrical as necessary for card reader rough-in:
 - Which will be furnished and installed by the owner
 - Supply all accessories and hardware as required
 - Delivery of all materials to project site
 - Coordinate all deliveries with the CM
 - Suppliers need to include all applicable City and State sales taxes
- 3. Supplier to include all applicable City and State sales taxes**

SCOPE OF WORK EXCLUSIONS:

END OF BID PACKAGE

Hill City WWTF Improvements
Hill City, South Dakota

BID PACKAGE # 08C – Overhead and Coiling Doors
August 17, 2026

EXHIBIT “2” - BID FORM
BIDS DUE 9/30/2026 2:00 PM (Mountain Time)

BIDDER _____

Date: _____

To: Scull Construction Service
Attn: Shane Crecelius
803 Industrial Ave.
Rapid City, SD 57702

Phone: 605-342-2379
Fax:
Email: bids@scullconst.com

The undersigned, being familiar with the local conditions affecting the work, and with the Contract Documents, including the Invitation to Bid, Instructions to Bidders, Bidder’s General Requirements, Bid Form, Modification to Bid Form, Performance and Payment Bond, Form of Agreement for Construction, Technical Specifications, Plans and Addenda which govern the purchase of material and labor and the awarding of contracts hereby proposes to do all the work and provide all the material and equipment which pertains to

Hill City WWTF Improvements
Hill City, South Dakota

as provided for in the Plans dated _____ and Specifications dated _____ for the following base bid, payment & performance bond, and alternates:

Base Bid: _____
_____ DOLLARS (\$ _____)

Payment and Performance Bond (P&P Bond):

Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$ _____)

ALTERNATES: Circle Add or Deduct as Applicable (All alternate pricing will be valid for 60 days after bid)

Alternate: N/A

**Hill City WWTF Improvements
BID PACKAGE # 08C – Overhead and Coiling Doors
August 17, 2026**

If applicable, identify any voluntary alternates or value engineering options in the section below. Include alternate description and cost for each option being presented:

VOLUNTARY ALTERNATES/VALUE ENGINEERING OPTIONS: Circle Add or Deduct as Applicable

Voluntary Alternate #1: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

Voluntary Alternate #2: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

The above bid includes all applicable State and Municipal Sales Taxes on materials.

Within ten (10) days after Contractor's receipt of the Agreement for Construction, the Contractor shall submit to the Construction Manager, the executed Agreement for Construction, Performance and Payment Bond (if required), Certificates of Insurance, and Schedule of Values.

Work shall be commenced within ten (10) consecutive calendar days after written Notice to Proceed by the Construction Manager and shall be completed per the attached schedule.

The undersigned acknowledges receipt of the following addenda to the drawings and/or specifications (give number and date of each):

Addenda Nos. _____ dated _____ respectively.

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids and to waive any irregularities. It is further understood by the Bidder that he may not withdraw his Bid within **60** after the actual opening thereof.

Hill City WWTF Improvements
BID PACKAGE # 08C – Overhead and Coiling Doors
August 17, 2026

BIDDER: _____ (Type Name of Firm)
BY: _____ (Signature of Firm's Representative)
_____ (Type Name and Title of Firm's Representative)
TELEPHONE NO. _____
FACSIMILE NO. _____
E-MAIL ADDRESS _____
BUSINESS ADDRESS _____ _____
STATE OF INCORPORATION _____

SCOPE SUMMARY:

DIVISION 00	- PROCUREMENT REQUIREMENTS,	As Applicable;
DIVISION 01	- GENERAL REQUIRMENTS,	As Applicable;
Section: 079200	- Joint Sealants,	As Applicable;
Section 08 33 23	OVERHEAD COILING DOORS	Complete;
Division 26 - Electrical,		As Applicable;
LEGENDS, NOTES & SCHEDULES PER DOCUMENTS,		As Applicable;

In the event of a conflict or ambiguity between the following "clarifications" to the scopes of Work and the contract documents, the contract documents shall control. The following "Scope Clarifications" are intended to emphasize, amplify, and clarify the work of this package, and does not supersede the contract documents or in any way list every item of work required by the contract documents for completion of this work package.

THIS BID PACKAGE SHALL NOT BE MODIFIED IN ANY WAY. WHEN SUBMITTING A BID, THIS CONTRACTOR AGREES TO ALL INCLUSIONS, TERMS, AND CONDITIONS, INCLUDED HEREIN. THIS BID PACKAGE WILL BE USED AS THE SCOPE INCLUSIONS IN ITS ENTIRETY FOR THE FINAL SUBCONTRACT AGREEMENT.

Terminology

Owner shall mean City of Hill City
Construction Manager (CM) shall mean Scull Construction Service
Contractor shall mean work package Bidder (*Prime Contractor per CM G.C. agreement*)

Hill City WWTF Improvements
BID PACKAGE # 08C – Overhead and Coiling Doors
August 17, 2026

GENERAL SCOPE OF WORK INCLUSIONS:

Includes, but is not limited to, providing all the necessary labor, materials, tools, supplies, supervision, insurance, equipment, scaffolding, hoisting, fees, etc. necessary to provide the above listed scope of work in accordance with the Contract Documents. It is further understood and agreed that this Work Package also includes the furnishing and installation of the below listed items regardless of whether or not they are in the listed specification section(s) or any other specification section(s), or shown on the plans. Drawing and detail references are provided for reference only and are not to be considered as all inclusive of Contract Documents for the particular items referenced. (Please note: The word “provide” when used herein shall mean furnish and install completely, including all costs for labor, materials, equipment, hoisting, layout, scaffolding, ladders, staging, tools, rigging and any other facilities necessary to complete the work.”)

SCOPE OF WORK INCLUSIONS:

1. Project Specific Notes:

- Contractor to review the project schedule, issued with the Construction Manager’s Bid Manual, and include all necessary equipment and labor to meet the durations shown in the schedule for this scope of work
- Bidders to review the project schedule, and include all necessary equipment and manpower to meet the durations shown for this scope of work.
- Bidder shall review the Davis Bacon Wage Determine specification section and include all costs associated with the requirement
- Davis Bacon Wages Apply
 - Certified payroll will be required to be submitted weekly

2. Material Supply and Installation included, but not limited to the following:

- Provide all overhead and coiling doors/grilles complete per contract documents
- Provide all electric door operators, low voltage wiring, locking devices, switching...etc.
- Provide all track, supports, hardware, and accessories

3. Contractor to include all applicable City and State sales taxes

SCOPE OF WORK EXCLUSIONS:

1. General Building Permits

END OF BID PACKAGE

Hill City WWTF Improvements
Hill City, South Dakota

BID PACKAGE # 09E – Painting and Coating
August 17, 2026

EXHIBIT “2” - BID FORM
BIDS DUE 9/30/2026 2:00 PM (Mountain Time)

BIDDER _____

Date: _____

To: Scull Construction Service
Attn: Shane Crecelius
803 Industrial Ave.
Rapid City, SD 57702

Phone: 605-342-2379
Fax:
Email: bids@scullconst.com

The undersigned, being familiar with the local conditions affecting the work, and with the Contract Documents, including the Invitation to Bid, Instructions to Bidders, Bidder’s General Requirements, Bid Form, Modification to Bid Form, Performance and Payment Bond, Form of Agreement for Construction, Technical Specifications, Plans and Addenda which govern the purchase of material and labor and the awarding of contracts hereby proposes to do all the work and provide all the material and equipment which pertains to

Hill City WWTF Improvements
Hill City, South Dakota

as provided for in the Plans dated _____ and Specifications dated _____ for the following base bid, payment & performance bond, and alternates:

The below base bid option give the bidder three options: 1. Painting only, 2. High performance painting only, or 3. Painting and High-Performance combined

Base Bid (Painting Only – Precast, Misc metals, bollards and doors):

_____ DOLLARS (\$ _____)

Payment and Performance Bond (P&P Bond): (Painting Only – Precast, Misc metals, bollards and doors):

Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$ _____)

Base Bid (High Performance Painting Only – Process Piping/Equipment):

_____ DOLLARS (\$ _____)

Hill City WWTF Improvements
BID PACKAGE # 09E – Painting and Coating
August 17, 2026

Payment and Performance Bond (P&P Bond): (High Performance Painting Only – Process Piping/Equipment):
Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$_____)

Base Bid (High Performance Painting and Painting Combined):

_____ DOLLARS (\$_____)

Payment and Performance Bond (P&P Bond): (High Performance Painting and Painting Combined): Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$_____)

VOLUNTARY ALTERNATES/VALUE ENGINEERING OPTIONS: Circle Add or Deduct as Applicable

Voluntary Alternate #1: Add/Deduct

DESCRIPTION: _____ Cost (\$_____)

Voluntary Alternate #2: Add/Deduct

DESCRIPTION: _____ Cost (\$_____)

The above bid includes all applicable State and Municipal Sales Taxes on materials.

Within ten (10) days after Contractor's receipt of the Agreement for Construction, the Contractor shall submit to the Construction Manager, the executed Agreement for Construction, Performance and Payment Bond (if required), Certificates of Insurance, and Schedule of Values.

Work shall be commenced within ten (10) consecutive calendar days after written Notice to Proceed by the Construction Manager and shall be completed per the attached schedule.

The undersigned acknowledges receipt of the following addenda to the drawings and/or specifications (give number and date of each):

Addenda Nos. _____ dated _____ respectively.

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids and to waive any irregularities. It is further understood by the Bidder that he may not withdraw his Bid within **60** after the actual opening thereof.

Hill City WWTF Improvements
BID PACKAGE # 09E – Painting and Coating
August 17, 2026

BIDDER:	
	(Type Name of Firm)
BY:	
	(Signature of Firm's Representative)
	(Type Name and Title of Firm's Representative)
TELEPHONE NO.	
FACSIMILE NO.	
E-MAIL ADDRESS	
BUSINESS ADDRESS	
STATE OF INCORPORATION	

SCOPE SUMMARY:

DIVISION 00	- PROCUREMENT AND CONTRACTING REQUIREMENTS,	As Applicable;
DIVISION 01	- GENERAL REQUIREMENTS,	As Applicable;
Section: 079200	- Joint Sealants,	As Applicable;
Section 09 90 02	HIGH PERFORMANCE PAINTING AND COATINGS,	Complete
LEGENDS, NOTES & SCHEDULES PER DOCUMENTS,		As Applicable;

In the event of a conflict or ambiguity between the following "clarifications" to the scopes of Work and the contract documents, the contract documents shall control. The following "Scope Clarifications" are intended to emphasize, amplify, and clarify the work of this package, and does not supersede the contract documents or in any way list every item of work required by the contract documents for completion of this work package.

THIS BID PACKAGE SHALL NOT BE MODIFIED IN ANY WAY. WHEN SUBMITTING A BID, THIS CONTRACTOR AGREES TO ALL INCLUSIONS, TERMS, AND CONDITIONS, INCLUDED HEREIN. THIS BID PACKAGE WILL BE USED AS THE SCOPE INCLUSIONS IN ITS ENTIRETY FOR THE FINAL SUBCONTRACT AGREEMENT.

Terminology

Owner shall mean City of Hill City
 Construction Manager (CM) shall mean Scull Construction Service
 Contractor shall mean work package Bidder (*Prime Contractor per CM G.C. agreement*)

Hill City WWTF Improvements
BID PACKAGE # 09E – Painting and Coating
August 17, 2026

GENERAL SCOPE OF WORK INCLUSIONS:

Includes, but is not limited to, providing all the necessary labor, materials, tools, supplies, supervision, insurance, equipment, scaffolding, hoisting, fees, etc. necessary to provide the above listed scope of work in accordance with the Contract Documents. It is further understood and agreed that this Work Package also includes the furnishing and installation of the below listed items regardless of whether or not they are in the listed specification section(s) or any other specification section(s), or shown on the plans. Drawing and detail references are provided for reference only and are not to be considered as all inclusive of Contract Documents for the particular items referenced. (Please note: The word “provide” when used herein shall mean furnish and install completely, including all costs for labor, materials, equipment, hoisting, layout, scaffolding, ladders, staging, tools, rigging and any other facilities necessary to complete the work.”)

SCOPE OF WORK INCLUSIONS:

1. Project Specific Notes:

- **Contractor to include 50 hours of touch up painting in their bid due to trade damage:**
 - **Any touch-up paint over 50 hours shall be reimbursed at a rate of \$60 per hour, including materials, for touch up work, ONLY after Scull project superintendent accepts original product in accordance with plans and specs**
- Contractor to provide all required manlifts and temporary scaffolding to perform the work as required
- Contractor to review the project schedule, issued with the Construction Manager’s Bid Manual, and include all necessary equipment and labor to meet the durations shown in the schedule for this scope of work
- Bidders to review the project schedule, and include all necessary equipment and manpower to meet the durations shown for this scope of work.
- Bidder shall review the Davis Bacon Wage Determine specification section and include all costs associated with the requirement
- Davis Bacon Wages Apply
 - Certified payroll will be required to be submitted weekly

2. Material Supply and Installation included, but not limited to the following:

- Provide all painting complete per the contract documents including:
 - All interior/exterior painting including:
 - **All required manlifts and temporary scaffolding to perform the work as required**
 - All surfaces called to receive painted finish
 - All hollow metal frames and doors
 - All steel bollards
 - All steel handrail
 - Contractor to protect all labeling on material, including fire rated labels on doors, frames, etc.
 - Contractor to include bid reasonable touch up painting expenses in their bid.
 - All high-Performance Painting required:
 - Paint process piping and fittings per the documents
 - Surface prep as required by the documents

Hill City WWTF Improvements
BID PACKAGE # 09E – Painting and Coating
August 17, 2026

3. Contractor to include all applicable City and State sales taxes

SCOPE OF WORK EXCLUSIONS:

END OF BID PACKAGE

Hill City WWTF Improvements
Hill City, South Dakota

BID PACKAGE # 22A – Plumbing
August 17, 2026

EXHIBIT “2” - BID FORM
BIDS DUE 9/30/2026 2:00 PM (Mountain Time)

BIDDER _____

Date: _____

To: Scull Construction Service
Attn: Shane Crecelius
803 Industrial Ave.
Rapid City, SD 57702

Phone: 605-342-2379
Fax:
Email: bids@scullconst.com

The undersigned, being familiar with the local conditions affecting the work, and with the Contract Documents, including the Invitation to Bid, Instructions to Bidders, Bidder’s General Requirements, Bid Form, Modification to Bid Form, Performance and Payment Bond, Form of Agreement for Construction, Technical Specifications, Plans and Addenda which govern the purchase of material and labor and the awarding of contracts hereby proposes to do all the work and provide all the material and equipment which pertains to

Hill City WWTF Improvements
Hill City, South Dakota

as provided for in the Plans dated _____ and Specifications dated _____ for the following base bid, bond, and alternates:

BASE BID _____

_____ DOLLARS (\$ _____)

Payment and Performance Bond (P&P Bond):

Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$ _____)

ALTERNATES: Circle Add or Deduct as Applicable (All alternate pricing will be valid for 60 days after bid)

Alternate: N/A

**Hill City WWTF Improvements
BID PACKAGE # 22A – Plumbing
August 17, 2026**

If applicable, identify any voluntary alternates or value engineering options in the section below. Include alternate description and cost for each option being presented:

VOLUNTARY ALTERNATES/VALUE ENGINEERING OPTIONS: Circle Add or Deduct as Applicable

Voluntary Alternate #1: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

Voluntary Alternate #2: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

The above bid includes all applicable State and Municipal Sales Taxes on materials.

Within ten (10) days after Contractor's receipt of the Agreement for Construction, the Contractor shall submit to the Construction Manager, the executed Agreement for Construction, Performance and Payment Bond (if required), Certificates of Insurance, and Schedule of Values.

Work shall be commenced within ten (10) consecutive calendar days after written Notice to Proceed by the Construction Manager and shall be completed per the attach schedule.

The undersigned acknowledges receipt of the following addenda to the drawings and/or specifications (give number and date of each):

Addenda Nos. _____ dated _____ respectively.

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids and to waive any irregularities. It is further understood by the Bidder that he may not withdraw his Bid within **60** after the actual opening thereof.

**Hill City WWTF Improvements
BID PACKAGE # 22A – Plumbing
August 17, 2026**

BIDDER: _____ (Type Name of Firm)
BY: _____ (Signature of Firm's Representative)
_____ (Type Name and Title of Firm's Representative)
TELEPHONE NO. _____
FACSIMILE NO. _____
E-MAIL ADDRESS _____
BUSINESS ADDRESS _____ _____
STATE OF INCORPORATION _____

SCOPE SUMMARY:

DIVISION 00	- PROCUREMENT AND CONTRACTING REQUIREMENTS,	As Applicable;
DIVISION 01	- GENERAL REQUIREMENTS,	As Applicable;
Section: 079200	- Joint Sealants,	As Applicable;
Section 22 05 53	IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT	Complete;
Section 22 10 05	PLUMBING PIPING	Complete;
Division 31	Earthwork	As Applicable;
LEGENDS, NOTES & SCHEDULES PER DOCUMENTS,		As Applicable;
GEOTECHNICAL ENGINEERING REPORT,		As Applicable;

In the event of a conflict or ambiguity between the following "clarifications" to the scopes of Work and the contract documents, the contract documents shall control. The following "Scope Clarifications" are intended to emphasize, amplify, and clarify the work of this package, and does not supersede the contract documents or in any way list every item of work required by the contract documents for completion of this work package.

THIS BID PACKAGE SHALL NOT BE MODIFIED IN ANY WAY. WHEN SUBMITTING A BID, THIS CONTRACTOR AGREES TO ALL INCLUSIONS, TERMS, AND CONDITIONS, INCLUDED HEREIN. THIS BID PACKAGE WILL BE USED AS THE SCOPE INCLUSIONS IN ITS ENTIRETY FOR THE FINAL SUBCONTRACT AGREEMENT.

**Hill City WWTF Improvements
BID PACKAGE # 22A – Plumbing
August 17, 2026**

Terminology

Owner shall mean City of Hill City

Construction Manager (CM) shall mean Scull Construction Service

Contractor shall mean work package Bidder (*Prime Contractor per CM G.C. agreement*)

GENERAL SCOPE OF WORK INCLUSIONS:

Includes, but is not limited to, providing all the necessary labor, materials, tools, supplies, supervision, insurance, equipment, scaffolding, hoisting, fees, etc. necessary to provide the above listed scope of work in accordance with the Contract Documents. It is further understood and agreed that this Work Package also includes the furnishing and installation of the below listed items regardless of whether or not they are in the listed specification section(s) or any other specification section(s), or shown on the plans. Drawing and detail references are provided for reference only and are not to be considered as all inclusive of Contract Documents for the particular items referenced. (Please note: The word “provide” when used herein shall mean furnish and install completely, including all costs for labor, materials, equipment, hoisting, layout, scaffolding, ladders, staging, tools, rigging and any other facilities necessary to complete the work.”)

SCOPE OF WORK INCLUSIONS:

1. Project Specific Notes:

- **Contractor to provide all interior trench drain frame and grate assemblies**
- Contractor to provide all required manlifts and temporary scaffolding to perform the work as required
- Contractor to review the project schedule, issued with the Construction Manager’s Bid Manual, and include all necessary equipment and labor to meet the durations shown in the schedule for this scope of work
- Bidders to review the project schedule, and include all necessary equipment and manpower to meet the durations shown for this scope of work.
- Bidder shall review the Davis Bacon Wage Determine specification section and include all costs associated with the requirement
- Davis Bacon Wages Apply
 - Certified payroll will be required to be submitted weekly

2. Material Supply and Installation included, but not limited to the following:

- Provide all plumbing work complete per the contract documents including (Refer to M101 Mechanical Plumbing Plan):
 - Connect to fire service, domestic water service, sanitary sewer service, and storm sewer service utilities 5’ outside the building foot print as indicated
 - Provide all building sanitary drain, waste, vent systems as required:
 - All piping, fittings, floor drains, floor sinks, rings, covers, and clean-outs as required
 - All interior drain frame and grate assemblies as required
 - Provide all domestic water systems as required:
 - All piping, fittings, and valves as required
 - Associated insulated piping:
 - Provide all related earthwork including:
 - All excavation, backfill, handwork, pipe bedding and backfill material

Hill City WWTF Improvements
BID PACKAGE # 22A – Plumbing
August 17, 2026

- All compaction per specifications and geotechnical reports
 - Remove and legally dispose all excess soil, spoil, or rock offsite
 - Restore all building and site sub-grades disturbed during excavation work to +/- .10' of required sub-grade elevations
- Provide all piping, fixtures, equipment, pumps, insulation, controls, and appurtenances:
 - Provide all hangers, framing, Unistrut, and misc. items for attachment to structure
 - All hangers and supports to be prime painted or galvanized as required
 - Provide final connections to all required items furnished by other trade sections
 - Provide all piping insulation
 - Provide all plumbing systems chlorination, disinfection, and chemical treatment as required
 - Provide all motors, starters, and disconnects as required
- Provide all heating work complete per the contract documents including:
 - Provide all meters, gages, valves for HVAC equipment as required
 - Provide all natural and LP gas piping as required

3. General Scope Notes:

- **Provide all required manlifts and temporary scaffolding to perform the work as required**
- Provide all required housekeeping or concrete pads
- Provide all grouting required for all equipment bases which may be required
- Provide all required wall, floor, ceiling, and roof penetrations including:
 - Coordinate with Structural Precast Concrete, Foundation Concrete, and Structural Steel contractors for all openings/penetrations
 - Coring and drilling of slabs, walls and floors (Including precast)
 - Block-outs, required sleeves, link seals, and gaskets
 - Caulking/sealing of all penetrations:
 - **Including any fire caulking/stopping as required through rated walls**
 - Furnishing and installation of all wall plates and/or escutcheons as required
- Provide weather and water tight closures for all exterior building penetrations including:
 - All required curbs, frames, flashing/ counter flashings, trim, sleeves, pitch pans, boots, gaskets, pipe collars, pipe supports, sealants, clamps...etc.
- Provide all panel/equipment/fixture wood backboards as required for work of this package
- Provide roofing protection (existing or new) for all roof related work
- Provide all field testing of work and systems including:
 - Air test all piping prior to hydrostatic testing
 - Perform all system drain downs as required:
 - With no liquid discharge onto finished floors or finished areas
- Protect all concrete and finish surfaces from work of this contract including:
 - Cleaning any concrete and finish surfaces if stained:
 - To be done to the satisfaction of CM and the Owner
- Provide specs and cut sheets for any cast-in-place devices, sleeves, or hanger anchors:
 - Showing dimensioned locations so that these items can be coordinated with reinforcing steel
- Provide all related pipe and equipment ID markings, signs, and labels as specified and required by codes

Hill City WWTF Improvements
BID PACKAGE # 22A – Plumbing
August 17, 2026

- Provide all templates, layout, drilling, grouting, and epoxying for equipment anchorage
 - Authorized contractor supervision must be onsite while work is being performed
 - This contractor shall receive/unload all their materials including:
 - Inventory, store, protect, unpack, distribute, install, dispose of packing, and clean all items within this work package
 - Contractor has care, custody, and control of all items from receipt until final completion and acceptance by Owner
 - Provide manpower, equipment mobilizations, and remobilizations as required:
 - In accordance with the project schedule, including phasing and interim milestone dates
4. Contractor to include all applicable City and State sales taxes

SCOPE OF WORK EXCLUSIONS:

1. General Building Permits
2. Propane Tank
3. Bid Package 46A Process Piping

END OF BID PACKAGE

Hill City WWTF Improvements
Hill City, South Dakota

BID PACKAGE # 23A – HVAC
August 17, 2026

EXHIBIT “2” - BID FORM

BIDS DUE 9/30/2026 2:00 PM (Mountain Time)1 2:00 PM (Mountain Time)

BIDDER _____

Date: _____

To: Scull Construction Service
Attn: Shane Crecelius
803 Industrial Ave.
Rapid City, SD 57702

Phone: 605-342-2379
Fax:
Email: bids@scullconst.com

The undersigned, being familiar with the local conditions affecting the work, and with the Contract Documents, including the Invitation to Bid, Instructions to Bidders, Bidder’s General Requirements, Bid Form, Modification to Bid Form, Performance and Payment Bond, Form of Agreement for Construction, Technical Specifications, Plans and Addenda which govern the purchase of material and labor and the awarding of contracts hereby proposes to do all the work and provide all the material and equipment which pertains to

Hill City WWTF Improvements
Hill City, South Dakota

as provided for in the Plans dated _____ and Specifications dated _____ for the following base bid, payment & performance bond, and alternates:

BASE BID _____

_____ DOLLARS (\$ _____)

COMBINED Base Bid (BP 23B HVAC and Plumbing Combined): if BP #22A – Plumbing Awarded with BP #23A – Heating, Ventilating, and Air Conditioning as Single

Contract _____

_____ DOLLARS (\$ _____)

Payment and Performance Bond (P&P Bond):

Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$ _____)

Hill City WWTF Improvements
BID PACKAGE # 23A – HVAC
August 17, 2026

ALTERNATES: Circle Add or Deduct as Applicable (All alternate pricing will be valid for 60 days after bid)

Alternate: N/A

If applicable, identify any voluntary alternates or value engineering options in the section below. Include alternate description and cost for each option being presented:

VOLUNTARY ALTERNATES/VALUE ENGINEERING OPTIONS: Circle Add or Deduct as Applicable

Voluntary Alternate #1: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

Voluntary Alternate #2: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

The above bid includes all applicable State and Municipal Sales Taxes on materials.

Within ten (10) days after Contractor's receipt of the Agreement for Construction, the Contractor shall submit to the Construction Manager, the executed Agreement for Construction, Performance and Payment Bond (if required), Certificates of Insurance, and Schedule of Values.

Work shall be commenced within ten (10) consecutive calendar days after written Notice to Proceed by the Construction Manager and shall be completed per the attach schedule.

The undersigned acknowledges receipt of the following addenda to the drawings and/or specifications (give number and date of each):

Addenda Nos. _____ dated _____ respectively.

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids and to waive any irregularities. It is further understood by the Bidder that he may not withdraw his Bid within **60** after the actual opening thereof.

Hill City WWTF Improvements
BID PACKAGE # 23A – HVAC
August 17, 2026

BIDDER: _____ (Type Name of Firm)
BY: _____ (Signature of Firm's Representative)
_____ (Type Name and Title of Firm's Representative)
TELEPHONE NO. _____
FACSIMILE NO. _____
E-MAIL ADDRESS _____
BUSINESS ADDRESS _____ _____
STATE OF INCORPORATION _____

SCOPE SUMMARY:

DIVISION 00	- PROCUREMENT AND CONTRACTING REQUIREMENTS,	As Applicable;
DIVISION 01	- GENERAL REQUIREMENTS,	As Applicable;
Section: 079200	- Joint Sealants,	As Applicable;
Section 23 05 93	TESTING, ADJUSTING, AND BALANCING FOR HVAC	Complete;
Section 23 07 13	DUCT INSULATION	Complete;
Section 23 23 00	REFRIGERANT PIPING	Complete;
Section 23 31 00	HVAC DUCTS AND CASINGS	Complete;
Section 23 34 23	HVAC POWER VENTILATORS	Complete;
Section 23 74 33	DEDICATED OUTDOOR AIR UNITS	Complete;
Section 23 81 26.13	SMALL-CAPACITY SPLIT-SYSTEM AIR CONDITIONERS	Complete;
LEGENDS, NOTES & SCHEDULES PER DOCUMENTS,		As Applicable;

In the event of a conflict or ambiguity between the following "clarifications" to the scopes of Work and

Hill City WWTF Improvements

BID PACKAGE # 23A – HVAC

August 17, 2026

the contract documents, the contract documents shall control. The following "Scope Clarifications" are intended to emphasize, amplify, and clarify the work of this package, and does not supersede the contract documents or in any way list every item of work required by the contract documents for completion of this work package.

THIS BID PACKAGE SHALL NOT BE MODIFIED IN ANY WAY. WHEN SUBMITTING A BID, THIS CONTRACTOR AGREES TO ALL INCLUSIONS, TERMS, AND CONDITIONS, INCLUDED HEREIN. THIS BID PACKAGE WILL BE USED AS THE SCOPE INCLUSIONS IN ITS ENTIRETY FOR THE FINAL SUBCONTRACT AGREEMENT.

Terminology

Owner shall mean City of Hill City

Construction Manager (CM) shall mean Scull Construction Service

Contractor shall mean work package Bidder (*Prime Contractor per CM G.C. agreement*)

GENERAL SCOPE OF WORK INCLUSIONS:

Includes, but is not limited to, providing all the necessary labor, materials, tools, supplies, supervision, insurance, equipment, scaffolding, hoisting, fees, etc. necessary to provide the above listed scope of work in accordance with the Contract Documents. It is further understood and agreed that this Work Package also includes the furnishing and installation of the below listed items regardless of whether or not they are in the listed specification section(s) or any other specification section(s), or shown on the plans. Drawing and detail references are provided for reference only and are not to be considered as all inclusive of Contract Documents for the particular items referenced. (Please note: The word "provide" when used herein shall mean furnish and install completely, including all costs for labor, materials, equipment, hoisting, layout, scaffolding, ladders, staging, tools, rigging and any other facilities necessary to complete the work.")

SCOPE OF WORK INCLUSIONS:

1. Project Specific Notes:

- Provide all required manlifts and temporary scaffolding to perform the work as required
- Contractor to review the project schedule, issued with the Construction Manager's Bid Manual, and include all necessary equipment and labor to meet the durations shown in the schedule for this scope of work
- Bidders to review the project schedule, and include all necessary equipment and manpower to meet the durations shown for this scope of work.
- Bidder shall review the Davis Bacon Wage Determine specification section and include all costs associated with the requirement
- Davis Bacon Wages Apply
 - Certified payroll will be required to be submitted weekly

2. Material Supply and Installation included, but not limited to the following:

- Provide all HVAC work complete per the contract documents including:
 - Provide all HVAC and control work as required
 - Provide all HVAC equipment, sheet metal, fixtures, and appurtenances as required
 - Provide all temperature control and instrumentation work complete including:
 - All raceways, low voltage, control interlocks, misc. control wiring
 - All control wiring to be in raceways as required

Hill City WWTF Improvements

BID PACKAGE # 23A – HVAC

August 17, 2026

- All in-wall drops from above finished ceiling to wall mounted T-stats or sensors
- Provide all duct insulation as required
- Provide all necessary fittings, valves...etc. for a complete code compliant installation
 - All raceways, low voltage, control interlocks, misc. control wiring
- Provide all required louvers/exterior vents
- Provide and coordinate all HVAC services:
 - Provide final connection to all items furnished under other trade sections
- Provide all hangers, framing, Unistrut, and misc. items for attachment to structure:
 - All hangers and supports to be prime painted or galvanized as required
- Provide all motors, starters and disconnects as required
- Protect all mechanical equipment/ductwork including:
 - Protect/cover all mechanical equipment stored or set in place
 - Prevent dust accumulation in interiors of equipment and ducts during sanding of sheet rock and similar dirty work operations.
 - Seal grills, diffusers, louvers, open duct ends...etc.
 - Clean ductwork and equipment soiled during construction
- Provide temporary filters for HVAC equipment operated during construction:
 - Change or clean when needed or as directed by the CM
 - Provide temporary filter material at returns; change as directed by CM.
- Provide all testing and balancing as required and specified:
 - Provide new set of filters prior to test and balance work
- Provide sheet metal protective covers for all exterior HVAC related pipe penetrations
- Provide all blank-off panels and insulation at unused louver areas
- Provide all curbs for mounted equipment:
 - Curbs to be delivered prior to equipment to stay with project schedule
- Provide Fire watch personnel as required for work of this contract

3. General Scope Notes:

- **Provide all required manlifts and temporary scaffolding to perform the work as required**
- Provide all grouting required for all equipment bases which may be required
- Provide all required wall, floor, ceiling, and roof penetrations including:
 - Coordinate with Architectural/Structural Concrete, Masonry, and Structural Steel contractors for all openings/penetrations
 - Coring and drilling of slabs, walls and floors (Including precast)
 - Block-outs, required sleeves, link seals, and gaskets
 - Furnishing and installation of all wall plates and/or escutcheons as required
 - Provide required acoustical sealing of penetrations at any sound rated walls
- Provide weather and water tight closures for all exterior building penetrations including:
 - All required curbs, frames, flashing/ counter flashings, trim, sleeves, pitch pans, boots, gaskets, pipe collars, pipe supports, sealants, clamps...etc.
- Provide all panel/equipment/fixture wood backboards as required for work of this package
- Provide roofing protection (existing or new) for all roof related work
- Provide all roof specialties or roof accessories required
- Provide and install access doors as required per AHJ
- Provide all field testing of work and systems as specified

Hill City WWTF Improvements

BID PACKAGE # 23A – HVAC

August 17, 2026

- Reclaim any contaminants and dispose in accordance with all jurisdictional requirements
- Protect all concrete and finish surfaces from work of this contract including:
 - Cleaning any concrete and finish surfaces if stained:
 - To be done to the satisfaction of CM and the Owner
- Coordinate and cooperate with mechanical, electrical and other above ceiling trade contractors:
 - Avoid conflicts and to ensure work is properly installed at locations and elevations at tight/congested ceiling areas
 - Piping may require offsets or relocation to not interfere with other trade work or maintenance
- Provide specs and cut sheets for any cast-in-place devices, sleeves, or hanger anchors:
 - Showing dimensioned locations so that these items can be coordinated with reinforcing steel
- Provide all duct, pipe, and equipment identification, stencils, tags, banding...etc. as specified and required by codes
- Provide all templates, layout, drilling, grouting, and epoxying for equipment anchorage
- Authorized contractor supervision must be onsite while work is being performed
- This contractor shall receive/unload all their materials including:
 - Inventory, store, protect, unpack, distribute, install, dispose of packing, and clean all items within this work package
 - Contractor has care, custody, and control of all items from receipt until final completion and acceptance by Owner
- Provide manpower, equipment mobilizations, and remobilizations as required:
 - In accordance with the project schedule, including phasing and interim milestone dates
- Coordinate and conduct work to ensure minimum interference with vehicular or pedestrian traffic and to permit unencumbered access to site and adjacent properties.

4. Contractor to include all applicable City and State sales taxes

SCOPE OF WORK EXCLUSIONS:

1. General Building Permits
2. BP 22A Plumbing
3. BP 46A Process Piping and Equipment
4. Gas Piping
5. Propane Tank

END OF BID PACKAGE

Hill City WWTF Improvements
Hill City, South Dakota

BID PACKAGE # 26A – Electrical & Communications
August 17, 2026

EXHIBIT “2” - BID FORM
BIDS DUE 9/30/2026 2:00 PM (Mountain Time)

BIDDER _____

Date: _____

To: Scull Construction Service
Attn: Shane Crecelius
803 Industrial Ave.
Rapid City, SD 57702

Phone: 605-342-2379
Fax:
Email: bids@scullconst.com

The undersigned, being familiar with the local conditions affecting the work, and with the Contract Documents, including the Invitation to Bid, Instructions to Bidders, Bidder's General Requirements, Bid Form, Modification to Bid Form, Performance and Payment Bond, Form of Agreement for Construction, Technical Specifications, Plans and Addenda which govern the purchase of material and labor and the awarding of contracts hereby proposes to do all the work and provide all the material and equipment which pertains to

Hill City WWTF Improvements
Hill City, South Dakota

as provided for in the Plans dated _____ and Specifications dated _____ for the following base bid, payment & performance bond, and alternates:

Base Bid: _____

_____ DOLLARS (\$ _____)

Payment and Performance Bond (P&P Bond):

Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$ _____)

ALTERNATES: Circle Add or Deduct as Applicable (All alternate pricing will be valid for 60 days after bid)

Alternate: N/A

**Hill City WWTF Improvements
BID PACKAGE # 26A – Electrical & Communications
August 17, 2026**

If applicable, identify any voluntary alternates or value engineering options in the section below. Include alternate description and cost for each option being presented:

VOLUNTARY ALTERNATES/VALUE ENGINEERING OPTIONS: Circle Add or Deduct as Applicable

Voluntary Alternate #1: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

Voluntary Alternate #2: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

The above bid includes all applicable State and Municipal Sales Taxes on materials.

Within ten (10) days after Contractor's receipt of the Agreement for Construction, the Contractor shall submit to the Construction Manager, the executed Agreement for Construction, Performance and Payment Bond (if required), Certificates of Insurance, and Schedule of Values.

Work shall be commenced within ten (10) consecutive calendar days after written Notice to Proceed by the Construction Manager and shall be completed per the attached schedule.

The undersigned acknowledges receipt of the following addenda to the drawings and/or specifications (give number and date of each):

Addenda Nos. _____ dated _____ respectively.

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids and to waive any irregularities. It is further understood by the Bidder that he may not withdraw his Bid within **60** after the actual opening thereof.

Hill City WWTF Improvements
 BID PACKAGE # 26A – Electrical & Communications
 August 17, 2026

BIDDER: _____ (Type Name of Firm)
BY: _____ (Signature of Firm's Representative)
_____ (Type Name and Title of Firm's Representative)
TELEPHONE NO. _____
FACSIMILE NO. _____
E-MAIL ADDRESS _____
BUSINESS ADDRESS _____ _____
STATE OF INCORPORATION _____

SCOPE SUMMARY:

DIVISION 00	- PROCUREMENT AND CONTRACTING REQUIREMENTS,	As Applicable;
DIVISION 01	- GENERAL REQUIREMENTS,	As Applicable;
Section: 079200	- Joint Sealants,	As Applicable;
DIVISION 22	- PLUMBING,	As Applicable;
DIVISION 23	- HVAC,	As Applicable;
DIVISION 26	- ELCTRICAL,	Complete;
DIVISION 28	- ELECTRONIC SAFETY AND SECURITY,	Complete;
Section 40 27 21	PROCESS ELECTRIC ACTUATORS,	Complete;
Section 40 53 13	OEM CONTROL PANELS AND HARDWARE,	Complete;
Section 40 61 13	PROCESS CONTROL SYSTEM GENERAL REQUIREMENTS,	Complete;
Section 40 63 13	PROCESS CONTROL PANELS AND HARDWARE,	Complete;
Section 40 63 14	JUNCTION BOXES AND CONTROL STATIONS,	Complete;
Section 40 63 43	PROGRAMMABLE LOGIC CONTROLLERS,	Complete;
DIVISION 32	- SITEWORK,	As Applicable;
LEGENDS, NOTES & SCHEDULES PER DOCUMENTS,		As Applicable;
GEOTECHNICAL ENGINEERING REPORT,		As Applicable;

In the event of a conflict or ambiguity between the following "clarifications" to the scopes of Work and the contract documents, the contract documents shall control. The following "Scope Clarifications" are intended to emphasize, amplify, and clarify the work of this package, and does not supersede the contract documents or in any way list every item of work required by the contract documents for completion of

Hill City WWTF Improvements
BID PACKAGE # 26A – Electrical & Communications
August 17, 2026

this work package.

THIS BID PACKAGE SHALL NOT BE MODIFIED IN ANY WAY. WHEN SUBMITTING A BID, THIS CONTRACTOR AGREES TO ALL INCLUSIONS, TERMS, AND CONDITIONS, INCLUDED HEREIN. THIS BID PACKAGE WILL BE USED AS THE SCOPE INCLUSIONS IN ITS ENTIRETY FOR THE FINAL SUBCONTRACT AGREEMENT.

Terminology

Owner shall mean City of Hill City

Construction Manager (CM) shall mean Scull Construction Service

Contractor shall mean work package Bidder (*Prime Contractor per CM G.C. agreement*)

GENERAL SCOPE OF WORK INCLUSIONS:

Includes, but is not limited to, providing all the necessary labor, materials, tools, supplies, supervision, insurance, equipment, scaffolding, hoisting, fees, etc. necessary to provide the above listed scope of work in accordance with the Contract Documents. It is further understood and agreed that this Work Package also includes the furnishing and installation of the below listed items regardless of whether or not they are in the listed specification section(s) or any other specification section(s), or shown on the plans. Drawing and detail references are provided for reference only and are not to be considered as all-inclusive of Contract Documents for the particular items referenced. (Please note: The word “provide” when used herein shall mean furnish and install completely, including all costs for labor, materials, equipment, hoisting, layout, scaffolding, ladders, staging, tools, rigging and any other facilities necessary to complete the work.”)

SCOPE OF WORK INCLUSIONS:

1. Project Specific Notes:

- Provide all required manlifts and temporary scaffolding to perform the work as required
- Contractor to review the project schedule, issued with the Construction Manager’s Bid Manual, and include all necessary equipment and labor to meet the durations shown in the schedule for this scope of work
- Bidders to review the project schedule, and include all necessary equipment and manpower to meet the durations shown for this scope of work.
- Bidder shall review the Davis Bacon Wage Determine specification section and include all costs associated with the requirement
- Davis Bacon Wages Apply
 - Certified payroll will be required to be submitted weekly
- Provide all seismic restraints as specified
- Contractor will be responsible for shipping any electrical items that are required to be cast-in-place in precast walls to the precast supplier’s shop:
 - Contractor to provide coordination and send drawings to CM and precast supplier showing locations, mounting heights...etc. for all of these items

2. Material Supply and Installation included, but not limited to the following:

- Provide all Electrical work (Site and Building) complete per the contract documents including:
 - Provide and coordinate all temporary electrical power service requirements including:
 - Coordination with Utility companies as required
 - Provide/maintain temp. power (120/208-volt, single phase, 200 amp) service

Hill City WWTF Improvements
BID PACKAGE # 26A – Electrical & Communications
August 17, 2026

- Provide temporary electrical services for the CM job trailer
- Provide adequate building temporary wiring grid for hand tool power
- Lighting level must be adequate to support work activities
- All temporary electrical/lighting is required to be installed per AHJ
- Include all utility company service and installation charges and permits
- Provide all required disconnects, transformers...etc. as required to provide complete temporary power and lighting systems
- Upon completion dismantle and remove all temporary services
- Provide all necessary/required coordination and components to provide a complete electrical system:
 - System to be functioning and free of all conflicts, omissions, and errors
- Provide all shipping of any electrical items that are required to be cast-in-place in precast walls to the precast supplier's shop:
 - Contractor to provide coordination and send drawings to CM and precast supplier showing locations, mounting heights...etc. for all of these items
- Provide all Communications complete as required
- Provide all Electronic Safety and Security work complete as required including:
 - Fire alarm system
- Provide all site Electrical work complete including:
 - All primary, secondary, and required distribution systems
 - All site lighting
 - Provide and coordinate all permanent electrical power requirements and site lighting with Utility companies as required
 - All concrete light pole bases including reinforcing, embeds...etc.
- Provide all fire alarm work complete including:
 - All interface with automatic doors, fire/smoke dampers, and sprinkler system
 - All control and interlock circuitry wiring as specified and required
- Provide all related earthwork including:
 - All excavation, backfill, handwork, pipe bedding and backfill material
 - All compaction per specifications and geotechnical reports
 - Remove and legally dispose all excess soil, spoil, or rock offsite
 - Restore all building and site sub-grades disturbed during excavation work to +/- .10' of required sub-grade elevations
 - Provide aggregate base backfill at all trenches located under paving/walk areas
- Provide blank cover plates (finishes as specified) at all abandoned box locations
- Provide all lighting controls as required
- Provide all cable and wire trays as required
- Provide all motor starters and disconnects not specified to come with Division 40/43/46 process equipment
- Provide all power, control, interconnecting wiring, conduit, and final termination of all electronic door hardware
- Provide all/any duct banks with concrete encasement as required
- Provide all field testing of work and systems specified including:
 - Testing and startup, commissioning...etc.
- Provide all hangers, framing, Unistrut, and misc. items for attachment to structure:
 - All hangers/supports to be prime painted, stainless steel, or galvanized as

Hill City WWTF Improvements
BID PACKAGE # 26A – Electrical & Communications
August 17, 2026

required

- Provide all required in-wall blocking or equipment stands as necessary
- Provide all control and interlock wiring specifically noted on the Division 26 documents
- **Material Supply and Installation included, but not limited to the following:**
 - Furnish and install all process electric valve and gate actuators specified under Section 40 27 21 (Process Electric Actuators); actuators mount to valve and gate stems furnished under BP 46A Process Piping and Equipment
 - Furnish and install all OEM equipment control panels and hardware specified under Section 40 53 13 (OEM Control Panels and Hardware)
 - Furnish and install all process control panels and hardware specified under Section 40 63 13 (Process Control Panels and Hardware)
 - Furnish and install all junction boxes and control stations specified under Section 40 63 14 (Junction Boxes and Control Stations)
 - Furnish and install all programmable logic controllers (PLCs) and associated hardware specified under Section 40 63 43 (Programmable Logic Controllers)
 - Provide all process control system general requirements, including conduit, wiring, and terminations between field instruments, control panels, and PLCs, per Section 40 61 13 (Process Control System General Requirements)
 - Coordinate valve/gate stem length, actuator mounting brackets, and coupling requirements with BP 46A Process Piping and Equipment to ensure proper fit and function of actuators furnished under this Work Package
 - Provide all motor control centers (MCCs), variable frequency drives (VFDs), and disconnects for process equipment motors, including coordination of motor nameplate and electrical data with the equipment supplier
 - Provide all conduit, wiring, and terminations for process instrumentation and SCADA system integration, including field instrument power and signal wiring, as specified
 - Provide all standby/emergency power systems, including generator, transfer switch, and associated wiring, as specified
 - Provide all grounding and lightning protection systems as specified
 - Provide all identification, labeling, and tagging of electrical panels, conduit, and equipment as specified and required by code
 - Coordinate all electrical/controls work with the Construction Manager and Owner to maintain continuous operation of the existing WWTF facility; no interruption, bypass, or shutdown of existing plant electrical/control systems without a CM/Owner-approved plan and advance written notice

3. General Scope Notes:

- **Provide all required manlifts and temporary scaffolding to perform the work as required**
- Provide all required housekeeping or concrete pads including:
 - Concrete pads as required by local utility agencies
- Provide all grouting required for all equipment bases which may be required
- Provide all required wall, floor, ceiling, and roof penetrations including:
 - Coordinate with Architectural/Structural Concrete, Masonry, and Structural Steel contractors for all openings/penetrations
 - Coring and drilling of slabs, walls and floors (Including precast)
 - Block-outs, required sleeves, link seals, and gaskets

Hill City WWTF Improvements
BID PACKAGE # 26A – Electrical & Communications
August 17, 2026

- Caulking/sealing of all penetrations:
 - **Including any fire caulking/stopping as required through rated walls**
- Furnishing and installation of all wall plates and/or escutcheons as required
- Provide required acoustical sealing of penetrations at any sound rated walls
- Provide weather and water tight closures for all exterior building penetrations including:
 - All required curbs, frames, flashing/ counter flashings, trim, sleeves, pitch pans, boots, gaskets, pipe collars, pipe supports, sealants, clamps...etc.
 - Waterproof and seal all exterior wall and slab conduit penetrations
- Provide all panel/equipment/fixture wood backboards as required for work of this package
- Provide roofing protection (existing or new) for all roof related work
- Provide all roof specialties or roof accessories required
- Provide all access doors as required per AHJ
 - Fire rated access doors
- Provide all field testing of work and systems including:
 - Air test all piping prior to hydrostatic testing
 - Perform all system drain downs as required:
 - With no liquid discharge onto finished floors or finished areas
- Reclaim any contaminants and dispose in accordance with all jurisdictional requirements
- Protect all concrete and finish surfaces from work of this contract including:
 - Cleaning any concrete and finish surfaces if stained:
 - To be done to the satisfaction of CM and the Owner
- Coordinate and cooperate with mechanical and other above ceiling trade contractors:
 - Avoid conflicts and to ensure work is properly installed at locations and elevations at tight/congested ceiling areas
 - Piping may require offsets or relocation to not interfere with other trade work or maintenance
 - Coordinate and locate or relocate junction box locations so as not to be inaccessible above ductwork or cable trays.
 - Cable trays must be located so as not to block access to junction boxes, mechanical/medical equipment, boxes and other items required to have maintenance access
- Provide specs and cut sheets for any cast-in-place devices, sleeves, or hanger anchors:
 - Showing dimensioned locations so that these items can be coordinated with reinforcing steel
- Provide all related pipe and equipment ID markings, signs, and labels as specified and required by codes
- Provide all templates, layout, drilling, grouting, and epoxying for equipment anchorage
- Authorized contractor supervision must be onsite while work is being performed
- This contractor shall receive/unload all their materials including:
 - Inventory, store, protect, unpack, distribute, install, dispose of packing, and clean all items within this work package
 - Contractor has care, custody, and control of all items from receipt until final completion and acceptance by Owner
- Provide manpower, equipment mobilizations, and remobilizations as required:
 - In accordance with the project schedule, including phasing and interim milestone dates

Hill City WWTF Improvements
BID PACKAGE # 26A – Electrical & Communications
August 17, 2026

- Coordinate and conduct work to ensure minimum interference with vehicular or pedestrian traffic and to permit unencumbered access to site and adjacent properties.
 - Provide Fire watch personnel as required for work on this contract
4. Contractor to include all applicable City and State sales taxes

SCOPE OF WORK EXCLUSIONS:

1. General Building Permits
2. State Excise Tax
3. Process piping, process valves, and process gates, including manual operators (furnished and installed under BP 46A Process Piping and Equipment)

END OF BID PACKAGE

Hill City WWTF Improvements
Hill City, South Dakota

BID PACKAGE # 31A – Sitework, Excavation, and Utilities
August 17, 2026

EXHIBIT “2” - BID FORM
BIDS DUE 9/30/2026 2:00 PM (Mountain Time)

BIDDER _____

Date: _____

To: Scull Construction Service
Attn: Shane Crecelius
803 Industrial Ave.
Rapid City, SD 57702

Phone: 605-342-2379
Fax:
Email: bids@scullconst.com

The undersigned, being familiar with the local conditions affecting the work, and with the Contract Documents, including the Invitation to Bid, Instructions to Bidders, Bidder’s General Requirements, Bid Form, Modification to Bid Form, Performance and Payment Bond, Form of Agreement for Construction, Technical Specifications, Plans and Addenda which govern the purchase of material and labor and the awarding of contracts hereby proposes to do all the work and provide all the material and equipment which pertains to

Hill City WWTF Improvements
Hill City, South Dakota

as provided for in the Plans dated _____ and Specifications dated _____ for the following base bid, payment & performance bond, and alternates:

Base Bid: _____

_____ DOLLARS (\$ _____)

Payment and Performance Bond (P&P Bond):

Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$ _____)

If applicable, identify any voluntary alternates or value engineering options in the section below. Include alternate description and cost for each option being presented:

VOLUNTARY ALTERNATES/VALUE ENGINEERING OPTIONS: Circle Add or Deduct as Applicable

Voluntary Alternate #1: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

Voluntary Alternate #2: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

**Hill City WWTF Improvements
BID PACKAGE # 31A – Sitework, Excavation, and Utilities
August 17, 2026**

The above bid includes all applicable State and Municipal Sales Taxes on materials.

Within ten (10) days after Contractor's receipt of the Agreement for Construction, the Contractor shall submit to the Construction Manager, the executed Agreement for Construction, Performance and Payment Bond (if required), Certificates of Insurance, and Schedule of Values.

Work shall be commenced within ten (10) consecutive calendar days after written Notice to Proceed by the Construction Manager and shall be completed per the attached schedule.

The undersigned acknowledges receipt of the following addenda to the drawings and/or specifications (give number and date of each):

Addenda Nos. _____ dated _____ respectively.

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids and to waive any irregularities. It is further understood by the Bidder that he may not withdraw his Bid within **60** after the actual opening thereof.

BIDDER: _____ (Type Name of Firm)
BY: _____ (Signature of Firm's Representative)
_____ (Type Name and Title of Firm's Representative)
TELEPHONE NO. _____
FACSIMILE NO. _____
E-MAIL ADDRESS _____
BUSINESS ADDRESS _____ _____
STATE OF INCORPORATION _____

Hill City WWTF Improvements
BID PACKAGE # 31A – Sitework, Excavation, and Utilities
August 17, 2026

SCOPE SUMMARY:

DIVISION 00	- PROCUREMENT AND CONTRACTING REQUIREMENTS,	As Applicable;
DIVISION 01	- GENERAL REQUIREMENTS,	As Applicable;
Section: 033000	- Cast-In-Place Concrete,	As Applicable;
DIVISION 31	- EARTHWORK,	Complete;
Section 32 11 23	AGGREGATE BASE COURSES	Complete;
Section 32 13 13	CONCRETE PAVEMENT	As Applicable;
Section 32 16 13	CURBS, GUTTERS, AND SIDEWALKS	As Applicable;
Section 32 92 19	SEEDING	Complete;
Section 32 97 00	RESTORATION OF DISTURBED AREAS	Complete;
DIVISION 33	- Utilities	Complete;
LEGENDS, NOTES & SCHEDULES PER DOCUMENTS,		As Applicable;

In the event of a conflict or ambiguity between the following “clarifications” to the scopes of Work and the contract documents, the contract documents shall control. The following “Scope Clarifications” are intended to emphasize, amplify, and clarify the work of this package, and does not supersede the contract documents or in any way list every item of work required by the contract documents for completion of this work package.

THIS BID PACKAGE SHALL NOT BE MODIFIED IN ANY WAY. WHEN SUBMITTING A BID, THIS CONTRACTOR AGREES TO ALL INCLUSIONS, TERMS, AND CONDITIONS, INCLUDED HEREIN. THIS BID PACKAGE WILL BE USED AS THE SCOPE INCLUSIONS IN ITS ENTIRETY FOR THE FINAL SUBCONTRACT AGREEMENT.

Terminology

Owner shall mean City of Hill City

Construction Manager (CM) shall mean Scull Construction Service

Contractor shall mean work package Bidder (*Prime Contractor per CM G.C. agreement*)

GENERAL SCOPE OF WORK INCLUSIONS:

Includes, but is not limited to, providing all the necessary labor, materials, tools, supplies, supervision, insurance, equipment, scaffolding, hoisting, fees, etc. necessary to provide the above listed scope of work in accordance with the Contract Documents. It is further understood and agreed that this Work Package also includes the furnishing and installation of the below listed items regardless of whether or not they are in the listed specification section(s) or any other specification section(s), or shown on the plans. Drawing and detail references are provided for reference only and are not to be considered as all inclusive of Contract Documents for the particular items referenced. (Please note: The word “provide” when used herein shall mean furnish and install completely, including all costs for labor, materials, equipment, hoisting, layout, scaffolding, ladders, staging, tools, rigging and any other facilities necessary to complete the work.”)

SCOPE OF WORK INCLUSIONS:

1. Project Specific Notes:

- Contractor to review the project schedule, issued with the Construction Manager’s Bid Manual, and include all necessary equipment and labor to meet the durations shown in the schedule for this scope of work

Hill City WWTF Improvements
BID PACKAGE # 31A – Sitework, Excavation, and Utilities
August 17, 2026

- Bidders to review the project schedule, and include all necessary equipment and manpower to meet the durations shown for this scope of work.
 - Bidder shall review the Davis Bacon Wage Determine specification section and include all costs associated with the requirement
 - Davis Bacon Wages Apply
 - Certified payroll will be required to be submitted weekly
 - Provide seeding of all disturbed areas as required
 - **Contractor will supply and install 1' of clean rock under SBR Slab:**
 - **Excavate to allow for 1' of clean rock and a 4" mat slab under SBR Slab foundation**
 - **Contractor will provide all dewatering necessary for the project**
 - **Backfill of the SBR Tank and Pretreatment Foundation cannot happen until Hydrostatic Testing is completed by the CM and Concrete Contractor**
- 2. Material Supply and Installation included, but not limited to the following:**
- Provide all sitework, excavation, and utilities complete per the contract documents including:
 - Site Demolition:
 - All existing curb/gutter, sidewalk, pavement demo for utility tie-ins
 - Initial Site Setup:
 - Provide/maintain all stabilized construction entrances as required
 - Provide all curb cuts and sidewalk removals as required for entrances
 - Remove and dispose of all stabilized entrance material when required
 - Provide all initial erosion control setup as required (maintenance by CM)
 - Site Grading (Provide the following):
 - All site clearing, grubbing, and topsoil stripping/stockpiling as required
 - All mass grading, material export/import as required
 - Site watering for dust mitigation as required
 - All site removals to be taken away from the site and lawfully disposed
 - Provide all site paving aggregate base course placed to +/- .10' as required for:
 - Asphalt Paving
 - Concrete Paving
 - Sidewalks
 - Curb and Gutter
 - Exterior Concrete Pads
 - Provide placement of all topsoil
 - All sub-grade materials and depths per geotechnical report
 - Provide excess material as required for fine grading to be completed by other contractors
 - Building Excavation/Backfill (Provide the following):
 - All foundation excavation as required
 - All export and import as required
 - All fill material as required (Engineered fill, clean rock...etc.)
 - All drain tile assemblies as required
 - All backfill as required
 - Provide all slab-on-grade aggregate base course placed to +/- .10' as required
 - All compactions are to meet requirements of the geotechnical report
 - Provide water as necessary to meet compaction requirements

Hill City WWTF Improvements
BID PACKAGE # 31A – Sitework, Excavation, and Utilities
August 17, 2026

- All sub-grades to be placed to +/- .10' as required:
 - Provide excess material as required for fine grading to be completed by other contractors
- All sub-grade materials and depths per geotechnical report
- Site Utilities (Provide the following):
 - All temporary utilities as required
 - All domestic and fire water services as required
 - All sanitary and storm sewer as required
 - All structures, manholes, junction boxes, storm inlets...etc.
 - All exterior trench drain grate frames and grates
 - All public utility work shall comply with all local AHJ's and be code compliant
 - All utility systems are to include all connections, taps, adapters, meters, structures, etc. from utility service mains, connection points, etc.
 - All site utilities to be installed to +/- 5' from the building structure
 - Provide all tracing wires and warning tapes as indicated or required
 - Coordinate all work with utility companies/agencies and CM as required
 - All concrete thrust blocks or encasements as required
 - Temporary pumping as required to relocate piping
 - Provide all Hydrostatic/ leakage testing
 - Provide all disinfection and bacteriological testing to potable water systems as applicable
- General Notes:
 - Provide all required layout of items within this bid package:
 - Gridlines and benchmarks to be provided by CM
 - Provide all site watering/dust mitigation during all earthwork operations as required
 - Provide concrete truck wash-out area as approved by the CM
 - Remove all wash-out and waste material from site and legally dispose
 - Coordinate with MEP and other contractors for items they are responsible to remove and dispose
 - Coordinate with other subcontractors for items that require disconnection, capping, plugging, etc. for safe and proper removal
 - Ensure proper coordination of removal in accordance with phasing to ensure existing construction and building services remain in service

3. Safety:

- Contractor to utilize "vac truck" when exposing any existing site utilities where there are new utility crossings and/or performing work near existing utilities
- Provide all trench protection measures including sheeting and shoring as required per OSHA and other governing authorities.
- Provide all design performance requirements, for sheeting and shoring, including analysis data signed and sealed by a qualified professional engineer licensed in the state where work is being performed.

4. Contractor to include all applicable City and State sales taxes

Hill City WWTF Improvements
BID PACKAGE # 31A – Sitework, Excavation, and Utilities
August 17, 2026

SCOPE OF WORK EXCLUSIONS:

1. Construction Staking (Gridlines and Benchmarks)
2. Final 0.10' Grading for Base Course and Topsoil
3. Site Concrete and Asphalt Paving
4. BP 46A Process Piping and Equipment

END OF BID PACKAGE

Hill City WWTF Improvements
Hill City, South Dakota

BID PACKAGE # 46A Process Piping and Equipment
August 17, 2026

EXHIBIT "2" - BID FORM
BIDS DUE 9/30/2026 2:00 PM (Mountain Time)

BIDDER _____

Date: _____

To: Scull Construction Service
Attn: Shane Crecelius
803 Industrial Ave.
Rapid City, SD 57702

Phone: 605-342-2379
Fax:
Email: bids@scullconst.com

The undersigned, being familiar with the local conditions affecting the work, and with the Contract Documents, including the Invitation to Bid, Instructions to Bidders, Bidder's General Requirements, Bid Form, Modification to Bid Form, Performance and Payment Bond, Form of Agreement for Construction, Technical Specifications, Plans and Addenda which govern the purchase of material and labor and the awarding of contracts hereby proposes to do all the work and provide all the material and equipment which pertains to

Hill City WWTF Improvements
Hill City, South Dakota

as provided for in the Plans dated _____ and Specifications dated _____ for the following base bid, bond, and alternates:

BASE BID _____

_____ DOLLARS (\$ _____)

Payment and Performance Bond (P&P Bond):

Provide Performance and Labor and Material Payment Bond (Not to be included in base bid). Failure or inability to provide bond may result in bid being disqualified. Add to the base bid the sum of

_____ DOLLARS (\$ _____)

ALTERNATES: Circle Add or Deduct as Applicable (All alternate pricing will be valid for 60 days after bid)

Alternate: N/A

**Hill City WWTF Improvements
BID PACKAGE # 46A Process Piping and Equipment
August 17, 2026**

If applicable, identify any voluntary alternates or value engineering options in the section below. Include alternate description and cost for each option being presented:

VOLUNTARY ALTERNATES/VALUE ENGINEERING OPTIONS: Circle Add or Deduct as Applicable

Voluntary Alternate #1: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

Voluntary Alternate #2: Add/Deduct

DESCRIPTION: _____ Cost (\$ _____)

The above bid includes all applicable State and Municipal Sales Taxes on materials.

Within ten (10) days after Contractor's receipt of the Agreement for Construction, the Contractor shall submit to the Construction Manager, the executed Agreement for Construction, Performance and Payment Bond (if required), Certificates of Insurance, and Schedule of Values.

Work shall be commenced within ten (10) consecutive calendar days after written Notice to Proceed by the Construction Manager and shall be completed per the attach schedule.

The undersigned acknowledges receipt of the following addenda to the drawings and/or specifications (give number and date of each):

Addenda Nos. _____ dated _____ respectively.

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids and to waive any irregularities. It is further understood by the Bidder that he may not withdraw his Bid within **60** after the actual opening thereof.

Hill City WWTF Improvements
BID PACKAGE # 46A Process Piping and Equipment
August 17, 2026

BIDDER: _____	(Type Name of Firm)
BY: _____	(Signature of Firm's Representative)
_____	(Type Name and Title of Firm's Representative)
TELEPHONE NO. _____	
FACSIMILE NO. _____	
E-MAIL ADDRESS _____	
BUSINESS ADDRESS _____	
STATE OF INCORPORATION _____	

SCOPE SUMMARY:

DIVISION 00	- PROCUREMENT AND CONTRACTING REQUIREMENTS,	As Applicable;
DIVISION 01	- GENERAL REQUIREMENTS,	As Applicable;
DIVISION 40	- PROCESS INTEGRATION,	Complete;
Section 40 27 00	PROCESS PIPING – GENERAL	Complete;
Section 40 27 05	PROCESS PIPING SUPPORT SYSTEMS	Complete;
Section 40 27 10	PROCESS PIPING SPECIALTIES	Complete;
Section 40 27 20	PROCESS VALVES	Complete;
Section 40 27 21	PROCESS ELECTRIC ACTUATORS	Complete;
Section 40 27 30	PROCESS GATES	Complete;
Section 40 27 60	PROCESS IDENTIFICATION	Complete;
Section 40 42 13	PROCESS PIPING INSULATION AND HEAT TRACING	Complete;
Section 40 42 80	PROCESS PIPING LEAKAGE TESTING	Complete;
Section 40 53 13	OEM CONTROL PANELS AND HARDWARE	Complete;
Section 40 61 13	PROCESS CONTROL SYSTEM GENERAL REQUIREMENTS	As Applicable;
Section 40 63 13	PROCESS CONTROL PANELS AND HARDWARE	As Applicable;
Section 40 63 14	JUNCTION BOXES AND CONTROL STATIONS	As Applicable;
Section 40 63 43	PROGRAMMABLE LOGIC CONTROLLERS	As Applicable;
DIVISION 43	- PROCESS GAS AND LIQUID HANDLING, PURIFICATION AND STORAGE EQUIPMENT	Complete;
DIVISION 46	- WATER AND WASTEWATER EQUIPMENT	Complete;
LEGENDS, NOTES & SCHEDULES PER DOCUMENTS,		As Applicable;

Hill City WWTF Improvements
BID PACKAGE # 46A Process Piping and Equipment
August 17, 2026

In the event of a conflict or ambiguity between the following “clarifications” to the scopes of Work and the contract documents, the contract documents shall control. The following “Scope Clarifications” are intended to emphasize, amplify, and clarify the work of this package, and does not supersede the contract documents or in any way list every item of work required by the contract documents for completion of this work package.

THIS BID PACKAGE SHALL NOT BE MODIFIED IN ANY WAY. WHEN SUBMITTING A BID, THIS CONTRACTOR AGREES TO ALL INCLUSIONS, TERMS, AND CONDITIONS, INCLUDED HEREIN. THIS BID PACKAGE WILL BE USED AS THE SCOPE INCLUSIONS IN ITS ENTIRETY FOR THE FINAL SUBCONTRACT AGREEMENT.

Terminology

Owner shall mean City of Hill City

Construction Manager (CM) shall mean Scull Construction Service

Contractor shall mean work package Bidder (*Prime Contractor per CM G.C. agreement*)

GENERAL SCOPE OF WORK INCLUSIONS:

Includes, but is not limited to, providing all the necessary labor, materials, tools, supplies, supervision, insurance, equipment, scaffolding, hoisting, fees, etc. necessary to provide the above listed scope of work in accordance with the Contract Documents. It is further understood and agreed that this Work Package also includes the furnishing and installation of the below listed items regardless of whether or not they are in the listed specification section(s) or any other specification section(s), or shown on the plans. Drawing and detail references are provided for reference only and are not to be considered as all inclusive of Contract Documents for the particular items referenced. (Please note: The word “provide” when used herein shall mean furnish and install completely, including all costs for labor, materials, equipment, hoisting, layout, scaffolding, ladders, staging, tools, rigging and any other facilities necessary to complete the work.”)

SCOPE OF WORK INCLUSIONS:

1. Project Specific Notes:

- Contractor to provide all required manlifts and temporary scaffolding to perform the work as required
- Contractor to review the project schedule, issued with the Construction Manager’s Bid Manual, and include all necessary equipment and labor to meet the durations shown in the schedule for this scope of work
- Bidders to review the project schedule, and include all necessary equipment and manpower to meet the durations shown for this scope of work.
- Bidder shall review the Davis Bacon Wage Determine specification section and include all costs associated with the requirement
- Davis Bacon Wages Apply
 - Certified payroll will be required to be submitted weekly
- Include \$45,000.00 for crane service in this bid package (required)
 - Include \$85.00 per hour for an operator.
 - Monthly crane rental by GC
 - Due to tight nature of site, the subcontractors crane will not be permitted on site.

Hill City WWTF Improvements
BID PACKAGE # 46A Process Piping and Equipment
August 17, 2026

- Provide all process piping systems complete, including pipe, fittings, joints, gaskets, and appurtenances of the materials and pressure classes indicated, per Section 40 27 00 (Process Piping – General)
- Provide all process piping supports, hangers, guides, anchors, saddles, and restraints, including all steel, Unistrut, and miscellaneous framing required for attachment to structure, per Section 40 27 05 (Process Piping Support Systems)
- Provide all process piping specialties, including expansion joints, flexible couplings, strainers, air release/vacuum valves, and similar items, per Section 40 27 10 (Process Piping Specialties)
- Provide all process valves complete with manual operators, extension stems, handwheels, chainwheels, valve boxes, and accessories, per Section 40 27 20 (Process Valves); electric valve actuators furnished and installed by the Electrical/Controls Work Package
- Provide all process gates, frames, stems, and manual operators complete, per Section 40 27 30 (Process Gates); electric gate actuators furnished and installed by the Electrical/Controls Work Package
- Provide all pipe and equipment identification, including flow arrows, labels, tags, and color coding, per Section 40 27 60 (Process Identification) and applicable code requirements
- Provide all process piping insulation and heat tracing as required, per Section 40 42 13 (Process Piping Insulation and Heat Tracing)
- Perform all required leakage, pressure, and hydrostatic testing of process piping systems, including furnishing test equipment, temporary bulkheads/blind flanges, water, and legal disposal of test water, per Section 40 42 80 (Process Piping Leakage Testing)
- Furnish and install all process/mechanical equipment specified under Division 43 (Process Gas and Liquid Handling, Purification and Storage Equipment), complete with base plates, anchor bolts, and manufacturer-recommended appurtenances
- Furnish and install all wastewater treatment process equipment specified under Division 46 (Water and Wastewater Equipment), including pumps, blowers, mixers, screens, and related equipment, complete per manufacturer's installation instructions
- Provide manufacturer-certified equipment start-up services, functional and performance testing, operation and maintenance manuals, and operator training for all equipment furnished under this Work Package
- Coordinate process piping tie-in points and interface limits located 5' outside the building footprint with the Earthwork and Utilities Work Package (BP 31A); resolve elevation and location conflicts prior to installation
- Coordinate all work with the Construction Manager and Owner to maintain continuous operation of the existing WWTF facility; no interruption, bypass, or shutdown of existing plant processes without a CM/Owner-approved bypass plan and advance written notice
- Include all costs associated with confined space entry, atmospheric monitoring, and related safety requirements for work performed within existing or new tanks, wet wells, vaults, and below-grade structures
- Assist CM in providing all required commissioning to the plant. Commissioning will be completed in two phases. 1. For the new SBR. 2. Once the remediation of the second plant is completed.

Hill City WWTF Improvements
BID PACKAGE # 46A Process Piping and Equipment
August 17, 2026

2. General Scope Notes:

- **Provide all required manlifts and temporary scaffolding to perform the work as required**
- Provide manpower, equipment mobilizations, and remobilizations as required:
 - In accordance with the project schedule, including phasing and interim milestone dates

3. Contractor to include all applicable City and State sales taxes

SCOPE OF WORK EXCLUSIONS:

1. General Building Permits
2. Site Piping per BP 31A Earthwork, and Utilities
3. Furnishing and installation of process electric valve/gate actuators, OEM control panels, process control panels, junction boxes and control stations, programmable logic controllers, and process control system components (Sections 40 27 21, 40 53 13, 40 61 13, 40 63 13, 40 63 14, 40 63 43); by Electrical/Controls Work Package

END OF BID PACKAGE

EXHIBIT “3”

Sampe of Sealed Envelope

Return Address
John Smith, Contractor
Box 1
Anytown, USA

TO: Scull Construction
Attn: Shane Crecelius
803 Industrial Ave. Rapid City, SD 57702

Bid For: Hill City WWTF Improvements
Hill City, SD

To Be Opened: (Hour & Date)
BID PACKAGE NO. _____
ADDENDA RECEIVED: NOS. _____

EXHIBIT “4”

Sample of Performance and Payment Bond

See EJCDC C-610 Performance Bond Sample in AE2S Specifications

See EJCDC C-615 Payment Bond Sample in AE2S Specifications

EXHIBIT “5”

Contractor’s Statement of Skills and Capabilities

Hill City WWTF Improvements

Contractor's Statement of Skills and Capabilities

Send Completed Form to: Shane Crecelius
803 Industrial Avenue
Rapid City, SD 57702
Phone: 605-342-2379 Fax: N/A
screcelius@scullconst.com

Project Name: Hill City WWTF Improvements

Location: Hill City, SD

CONTRACTOR INFORMATION

A. Business Structure

Submitted By:

1. Current Business Name and Address.

Business Name:

Address:

Phone:

Fax:

email:

2. How many years has your company been in business under the name listed above?

3. Has your company been in business under any other business name(s)?

If so, list previous business name(s) and the years your company operated under each name:

4. If a corporation, provide the:

Date and State of incorporation:

Type of corporation:

Names of Officers

President:

Vice-president(s):

Secretary:

Treasurer:

5. If a partnership, provide the:

State of Organization:

Partnership type:

Date of organization:

Names of partners:

6. If individual, provide:

Date of organization:

Name of owner:

7. Use this space to describe your company's business structure if it differs from those listed above:

8. List the states and trades in which you may legally do business where applicable. Provide registration or license number(s).

9. If your company is organized under the laws of another state, has it registered with the Secretary of State for the State of South Dakota and/or the Department of Revenue?

B. Background and History

1. What types of Work does your company perform with its own forces?
2. Has your company ever failed to complete Work it had contracted to perform? Provide details if the answer is "yes."
3. Within the last five years, has any officer or principal of your company been an officer or principal of another company that failed to complete Work that the latter company contracted to perform? Provide details if "yes."

4. List any and all judgments, claims, suits at law, or arbitration proceedings pending or outstanding against your company or its officers regarding any construction contracts:
5. Within the last five years, has your company filed law suits or requested arbitration regarding any construction contracts?
6. On separate paper, provide a list of major construction projects your company is currently working on. For purposes of this document "major construction projects" shall be considered anything of average size or greater for your company. Provide name of owner, location, architect, contract amount, and scheduled completion.
7. On separate paper, list the major construction projects your company has completed in the last five years. For purposes of this document "major construction projects" shall be considered anything of average size or greater for your company. Provide name of owner, project, location, architect, contract amount, and scheduled completion.
8. On separate paper, list the construction background/experience of the key personnel in your company.
9. What is the average annual value of all construction work your company performed within the last five years?

C. References

1. List your company's Business/Industry References:
2. List your company's Financial References:
3. Provide the name and address of your company's Surety, as well as the name and address of the Agent:

SIGNATURE AND NOTARIZATION

Date _____

Typed Name: _____

Title: _____

Signature

Business Name: _____

(Affix Seal)

Address: _____

On this _____ day of _____, 20 _____, before me personally appeared _____, who, being duly sworn, declares all statements made in this Qualification Statement to be true and correct to the best of his or her knowledge.

Notary Public

My commission expires the _____ day of _____, 20 _____

Agreement for Construction

EJCDC CMAR-523 Sample Subcontract Minimum Insurance Requirements Scul Safety Policy

AIA® Document A401® – 2017

Standard Form of Agreement Between Contractor and Subcontractor

AGREEMENT made as of the day of in the year
(In words, indicate day, month and year.)

BETWEEN the Contractor:
(Name, legal status, address and other information)

and the Subcontractor:
(Name, legal status, address and other information)

The Contractor has made a contract for construction (hereinafter, the Prime Contract) dated:

with the Owner:
(Name, legal status, address and other information)

for the following Project:
(Name, location and detailed description)

The Prime Contract provides for the furnishing of labor, materials, equipment and services in connection with the construction of the Project. A copy of the Prime Contract, consisting of the Agreement Between Owner and Contractor (from which compensation amounts may be deleted) and the other Contract Documents enumerated therein, has been made available to the Subcontractor.

The Architect for the Project:
(Name, legal status, address and other information)

The Contractor and the Subcontractor agree as follows.

ADDITIONS AND DELETIONS:
The author of this document may have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

ELECTRONIC COPYING of any portion of this AIA® Document to another electronic file is prohibited and constitutes a violation of copyright laws as set forth in the footer of this document.

TABLE OF ARTICLES

- 1 THE SUBCONTRACT DOCUMENTS
- 2 MUTUAL RIGHTS AND RESPONSIBILITIES
- 3 CONTRACTOR
- 4 SUBCONTRACTOR
- 5 CHANGES IN THE WORK
- 6 CLAIMS AND DISPUTES
- 7 TERMINATION, SUSPENSION OR ASSIGNMENT OF THE SUBCONTRACT
- 8 THE WORK OF THIS SUBCONTRACT
- 9 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION
- 10 SUBCONTRACT SUM
- 11 PAYMENTS
- 12 INSURANCE AND BONDS
- 13 TEMPORARY FACILITIES, SERVICES, EQUIPMENT AND WORKING CONDITIONS
- 14 MISCELLANEOUS PROVISIONS
- 15 ENUMERATION OF SUBCONTRACT DOCUMENTS

ARTICLE 1 THE SUBCONTRACT DOCUMENTS

§ 1.1 The Subcontract Documents consist of (1) this Agreement; (2) the Prime Contract, consisting of the Agreement between the Owner and Contractor and the other Contract Documents enumerated therein; (3) Modifications to the Prime Contract, whether issued before or after the execution of this Agreement, in accordance with the provisions of Article 5; (4) other documents listed in Article 15 of this Agreement; and (5) Modifications to this Subcontract issued after execution of this Agreement, in accordance with the provisions of Article 5. These form the Subcontract, and are as fully a part of the Subcontract as if attached to this Agreement or repeated herein.

§ 1.2 The Subcontract Documents form the Subcontract for Construction. The Subcontract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. An enumeration of the Subcontract Documents, other than Modifications to the Prime Contract or Modifications to this Subcontract issued subsequent to the execution of this Agreement, appears in Article 15.

§ 1.3 Except to the extent of a conflict with a specific term or condition contained in the Subcontract Documents, the General Conditions governing this Subcontract shall be the AIA Document A201™-2017, General Conditions of the Contract for Construction.

§ 1.4 The Subcontract may be amended or modified only by a Modification to this Subcontract. A Modification to this Subcontract is a written amendment to this Agreement signed by both parties, or as otherwise described in, and in accordance with the provisions of, Article 5.

§ 1.5 The Subcontract Documents shall not be construed to create a contractual relationship of any kind (1) between the Architect and the Subcontractor, (2) between the Owner and the Subcontractor, or (3) between any persons or entities

other than the Contractor and Subcontractor.

§ 1.6 The Contractor shall make the Subcontract Documents available to the Subcontractor prior to execution of this Agreement, and thereafter, upon request. The Contractor may charge the Subcontractor for the reasonable cost to reproduce the Subcontract Documents provided to the Subcontractor.

ARTICLE 2 MUTUAL RIGHTS AND RESPONSIBILITIES

The Contractor and Subcontractor shall be mutually bound by the terms of this Agreement and, to the extent that the provisions of AIA Document A201–2017 apply to this Agreement pursuant to Section 1.3 and provisions of the Prime Contract apply to the Work of the Subcontractor, the Contractor shall assume toward the Subcontractor all obligations and responsibilities that the Owner, under such documents, assumes toward the Contractor, and the Subcontractor shall assume toward the Contractor all obligations and responsibilities that the Contractor, under such documents, assumes toward the Owner and the Architect. The Contractor shall have the benefit of all rights, remedies, and redress against the Subcontractor that the Owner, under such documents, has against the Contractor, and the Subcontractor shall have the benefit of all rights, remedies, and redress against the Contractor that the Contractor, under such documents, has against the Owner, insofar as applicable to this Subcontract. Where a provision of such documents is inconsistent with a provision of this Agreement, this Agreement shall govern.

ARTICLE 3 CONTRACTOR

§ 3.1 General

§ 3.1.1 The Contractor is the person or entity identified as such in this Agreement and is referred to throughout the Subcontract Documents as if singular in number. The Contractor shall designate in writing a representative who shall have express authority to bind the Contractor with respect to all Project matters requiring the Contractor's approval or authorization. The term "Contractor" means the Contractor or the Contractor's authorized representative.

§ 3.1.2 The Contractor shall render decisions in a timely manner and in accordance with the Contractor's construction schedule.

§ 3.2 Services Provided by the Contractor

§ 3.2.1 The Contractor shall cooperate with the Subcontractor in scheduling and performing the Contractor's Work to avoid conflicts or interference in the Subcontractor's Work and shall review, and expedite written responses to, submittals made by the Subcontractor in accordance with Section 4.2.3 and Article 5. Promptly after execution of this Agreement, the Contractor shall provide the Subcontractor with copies of the Contractor's construction schedule and schedule of submittals, together with such additional scheduling details as will enable the Subcontractor to plan and perform the Subcontractor's Work properly. The Contractor shall promptly notify the Subcontractor of subsequent changes in the construction and submittal schedules and additional scheduling details.

§ 3.2.2 The Contractor shall provide suitable areas for storage of the Subcontractor's materials and equipment during the course of the Work. Except as previously agreed upon, additional costs to the Subcontractor resulting from relocation of such storage areas at the direction of the Contractor shall be reimbursed by the Contractor.

§ 3.3 Communications

§ 3.3.1 The Contractor shall promptly make available to the Subcontractor information, including information received from the Owner, that affects the performance of this Subcontract and that becomes available to the Contractor subsequent to execution of this Subcontract.

§ 3.3.2 The Contractor shall not give instructions or orders directly to the Subcontractor's employees or to the Subcontractor's Sub-subcontractors or suppliers unless such persons are designated as authorized representatives of the Subcontractor.

§ 3.3.3 The Contractor shall permit the Subcontractor to request information directly from the Architect regarding the percentages of completion and the amount certified on account of Work done by the Subcontractor.

§ 3.3.4 If hazardous materials or substances are being used on the site by the Contractor, a subcontractor, or anyone directly or indirectly employed by them (other than the Subcontractor), and they are a type of hazardous material or substance of which an employer is required by law to notify its employees, the Contractor shall, prior to delivery to the Project site or exposure of the Subcontractor's employees to such material or substance, give notice of the chemical composition thereof to the Subcontractor in sufficient detail and time to permit the Subcontractor's compliance with such laws.

§ 3.3.5 The Contractor shall promptly notify the Subcontractor of any fault or defect in the Work under this Subcontract or nonconformity with the Subcontract Documents.

§ 3.3.6 The Contractor shall furnish to the Subcontractor within 30 days after receipt of a written request, or earlier if so required by law, information necessary and relevant for the Subcontractor to evaluate, give notice of or enforce mechanic's lien rights. Such information shall include a correct statement of the record legal title to the property, usually referred to as the site, on which the Project is located and the Owner's interest therein. If the Contractor does not have such information, the Contractor shall request the information from the Owner in accordance with Article 2 of AIA Document A201-2017 and promptly furnish the information received from the Owner to the Subcontractor.

§ 3.3.7 If the Contractor asserts a Claim against, or defends a Claim by, the Owner that relates to the Work of the Subcontractor, the Contractor shall promptly make available to the Subcontractor all information relating to the portion of the Claim that relates to the Work of the Subcontractor.

§ 3.4 Claims by the Contractor

§ 3.4.1 Liquidated damages, if provided for in the Prime Contract, shall be assessed against the Subcontractor only to the extent caused by the Subcontractor or any person or entity for whose acts the Subcontractor may be liable, and in no case for delays or causes arising outside the scope of this Subcontract.

§ 3.4.2 The Contractor's Claims for the costs of services or materials provided due to the Subcontractor's failure to execute the Work shall require

- .1 seven days' notice prior to the Contractor's providing services or materials, except in an emergency; and
- .2 written compilations to the Subcontractor of services and materials provided by the Contractor and charges for such services and materials no later than the fifteenth day of the month following the Contractor's providing such services or materials.

§ 3.5 Contractor's Remedies

If the Subcontractor defaults or neglects to carry out the Work in accordance with this Agreement and fails within ~~five working days~~ 72 hours after receipt of notice from the Contractor to commence and continue correction of such default or neglect with diligence and promptness, the Contractor may, without prejudice to other remedies the Contractor may have, remedy such default or neglect and withhold, in accordance with Section 11.1.7.2, the reasonable cost thereof from current or future payments due the Subcontractor. If payments due to the Subcontractor are not sufficient to cover such amounts, the Subcontractor shall pay the difference to the Contractor.

ARTICLE 4 SUBCONTRACTOR

§ 4.1 General

The Subcontractor is the person or entity identified as such in this Agreement and is referred to throughout the Subcontract Documents as if singular in number. The Subcontractor shall be lawfully licensed, if required in the jurisdiction where the Project is located. The Subcontractor shall designate in writing a representative who shall have express authority to act on the Subcontractor's behalf with respect to the Project. The term "Subcontractor" means the Subcontractor or the Subcontractor's authorized representative.

§ 4.2 Execution and Progress of the Work

§ 4.2.1 For all Work the Subcontractor intends to subcontract, the Subcontractor shall enter into written agreements with Sub-subcontractors performing portions of the Work of this Subcontract by which the Subcontractor and the Sub-subcontractor are mutually bound, to the extent of the Work to be performed by the Sub-subcontractor, assuming toward each other all obligations and responsibilities that the Contractor and Subcontractor assume toward each other and having the benefit of all rights, remedies and redress each against the other that the Contractor and Subcontractor have by virtue of the provisions of this Agreement.

§ 4.2.2 The Subcontractor shall supervise and direct the Subcontractor's Work, and shall cooperate with the Contractor in scheduling and performing the Subcontractor's Work to avoid conflict, delay in, or interference with the Work of the Contractor, other subcontractors, the Owner, or Separate Contractors.

§ 4.2.3 Submittals

§ 4.2.3.1 The Subcontractor shall submit Shop Drawings, Product Data, Samples, and similar submittals required by the Subcontract Documents with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Contractor or other subcontractors.

§ 4.2.3.2 By submitting Shop Drawings, Product Data, Samples, and similar submittals, the Subcontractor represents to the Contractor that the Subcontractor has (1) reviewed and approved them; (2) determined and verified materials, field measurements, and field construction criteria related thereto, or will do so; and (3) checked and coordinated the information contained within such submittals with the requirements of the Work and of the Subcontract Documents.

§ 4.2.4 The Subcontractor shall furnish to the Contractor periodic progress reports on the Work of this Subcontract as mutually agreed, including information on the status of materials and equipment that may be in the course of preparation, manufacture, or transit.

§ 4.2.5 The Subcontractor agrees that the Contractor and the Architect each have the authority to reject Work of the Subcontractor that does not conform to the Prime Contract. The Architect's decisions on matters relating to aesthetic effect shall be final and binding on the Subcontractor if consistent with the intent expressed in the Prime Contract.

§ 4.2.6 The Subcontractor shall pay for all materials, equipment, and labor used in connection with the performance of this Subcontract through the period covered by previous payments received from the Contractor, and shall furnish satisfactory evidence, when requested by the Contractor, to verify compliance with the above requirements.

§ 4.2.7 The Subcontractor shall take necessary precautions to properly protect the work of the Contractor, Separate Contractors, and other subcontractors from damage caused by operations under this Subcontract.

§ 4.2.8 The Subcontractor shall cooperate with the Contractor, other subcontractors, the Owner, and Separate Contractors whose work might affect the Subcontractor's Work. The Subcontractor shall participate in the preparation of coordinated drawings in areas of congestion, if required by the Prime Contract, specifically noting and advising the Contractor of potential conflicts between the Work of the Subcontractor and that of the Contractor, other subcontractors, the Owner, or Separate Contractors.

§ 4.2.9 At minimum, the Subcontractor shall:

- Participate in Pull Planning sessions for all major phases of work. Attendance is required for the Subcontractor's Project Manager and onsite Foreman. Pull Planning will be done with the intent of adjusting workflow sequencing. The Subcontractor must actively collaborate with project stakeholders to improve workflow reliability, minimize waste, and support project goals. While Pull Planning will allow for collaboration, it may require early starts, increased manpower/hours, adjusted stagger/flow, or additional partners to accomplish milestone dates.
- Create and maintain weekly Make-Ready plans aligning constraints, handoffs, and milestones.
- Participate in Weekly Work Planning (WWP) sessions.
- Participate in short 15 minute Daily Huddles at the time of superintendents choosing.
- Provide weekly task constraints and commitments. The Subcontractor shall notify the project team of constraints within 48 hours of identification.
- Track Percent Plan Complete (PPC) (reliable commitment tracking) and reasons for variance.
- Attend Continuous Improvement/Learning Meetings.
- Review, respond and sign off on Observations within Procore for Safety, Lean, Quality Corrections, Engineer/Architect Observation Reporting and/or Positive Behavior.
- Create Daily Log entries within Procore Daily Log tool describing number of workers, hours worked, location, comments regarding what work is being done, and photos of work completed.
- Use provided project templates and software including but not limited to Procore and Outbuild.

Persistent failure to meet any of the above stated commitments may result in escalation and/or corrective action planning.

§ 4.3 Permits, Fees, Notices, and Compliance with Laws

§ 4.3.1 The Subcontractor shall give notices and comply with applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities bearing on performance of the Work of this Subcontract. The Subcontractor shall secure and pay for permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Subcontractor's Work, the furnishing of which is required of the Contractor by the Prime Contract.

§ 4.3.2 The Subcontractor shall comply with Federal, state, and local tax laws; social security acts; unemployment compensation acts; and workers' compensation acts, insofar as applicable to the performance of this Subcontract.

4.3.2a – Provide SDS booklets for the chemicals known with subcontracts. Any additional chemicals used, provide SDS to superintendent prior to use of chemicals.

§ 4.4 Safety Precautions and Procedures

§ 4.4.1 The Subcontractor shall take reasonable safety precautions with respect to performance of this Subcontract. The Subcontractor shall comply with safety measures initiated by the Contractor and with applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities, for the safety of persons and property, in accordance with the requirements of the Prime Contract. The Subcontractor shall notify the Contractor within three days of an injury to an employee or agent of the Subcontractor which occurred at the site.

§ 4.4.2 If hazardous materials or substances are being used on the site by the Subcontractor, the Subcontractor's Sub-subcontractors, or anyone directly or indirectly employed by them, and they are a type of hazardous material or substance of which an employer is required by law to notify its employees, the Subcontractor shall, prior to delivery to the Project site or exposure of the Contractor, other subcontractors, and other employers on the site to such material or substance, give notice of the chemical composition thereof to the Contractor in sufficient detail and time to permit compliance with the laws by the Contractor, other subcontractors, and other employers on the site.

§ 4.4.3 If reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a hazardous material or substance, including but not limited to asbestos or polychlorinated biphenyl (PCB), encountered on the site by the Subcontractor, the Subcontractor shall, upon recognizing the condition, immediately stop Work in the affected area and promptly report the condition to the Contractor in writing. When the material or substance has been rendered harmless, the Subcontractor's Work in the affected area shall resume upon written agreement of the Contractor and Subcontractor. The Subcontract Time shall be extended appropriately and the Subcontract Sum shall be increased in the amount of the Subcontractor's reasonable additional costs of demobilization, delay, and remobilization, which adjustments shall be accomplished as provided in Article 5 of this Agreement.

§ 4.4.4 To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Subcontractor, the Subcontractor's Sub-subcontractors, and agents and employees of any of them from and against claims, damages, losses, and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work in the affected area if in fact the material or substance presents the risk of bodily injury or death as described in Section 4.4.3 and has not been rendered harmless, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself) except to the extent that such damage, loss, or expense is due to the fault or negligence of the party seeking indemnity.

§ 4.4.5 The Subcontractor shall reimburse the Contractor for the cost and expense the Contractor incurs (1) for remediation of a hazardous material or substance brought to the site and negligently handled by the Subcontractor or (2) where the Subcontractor fails to perform its obligations under Section 4.4.3, except to the extent that the cost and expense are due to the Contractor's fault or negligence.

§ 4.5 Cleaning Up

4.4.6 The subcontractor shall be responsible for their own written safety programs and employee training as required by OSHA or MSHA. Provide a copy of safety plan to superintendent prior to start of any work on site and maintain a copy on site throughout the project. 4.4.7 The subcontractor's competent person must be on site whenever subcontractor's employees are working on this project. Competent persons means one who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous or dangerous to employees and who has the authorization to take prompt corrective measures to eliminate them. (OSHA CFR 1926.32 (f)). 4.4.8 Any fines by OSHA or other safety enforcement agencies as a result of a safety violation will be passed on to the subcontractor in violation. 4.4.9 Subcontractor employees will be required to wear hard hats, safety glasses, high visibility clothing and boots on this project at ALL times. Employees may be asked to leave without the proper personal protective equipment

4.4.10 Scaffolding must be inspected by a qualified individual under the direction of Scull Construction Service, Inc. prior to use of scaffolding.

4.4.11 Subcontractor must attend Contractor-Subcontractor pre-construction meeting before starting work.

4.4.12 Subcontractor is required to go through the I-9 verification process with each of its employees.

§ 4.5.1 The Subcontractor shall keep the premises and surrounding area free from accumulation of waste materials or rubbish caused by operations performed under this Subcontract. The Subcontractor shall not be held responsible for conditions caused by other contractors or subcontractors.

§ 4.5.2 As provided under Section 3.4.2, if the Subcontractor fails to clean up as provided in the Subcontract Documents, the Contractor may charge the Subcontractor for the Subcontractor's appropriate share of cleanup costs.

§ 4.6 Warranty

§ 4.6.1 The Subcontractor warrants to the Owner, Architect, and Contractor that materials and equipment furnished under this Subcontract will be of good quality and new unless the Subcontract Documents require or permit otherwise. The Subcontractor further warrants that the Work will conform to the requirements of the Subcontract Documents and will be free from defects, except for those inherent in the quality of the Work the Subcontract Documents require or permit. Work, materials, or equipment not conforming to these requirements may be considered defective. The Subcontractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work not executed by the Subcontractor, improper or insufficient maintenance, improper operation, or normal wear and tear under normal usage. If required by the Architect and Contractor, the Subcontractor shall provide satisfactory evidence as to the kind and quality of materials and equipment furnished or to be furnished.

§ 4.6.2 All material, equipment, or other special warranties required by the Subcontract Documents shall be issued in the name of the Owner, or shall be transferable to the Owner, and shall commence in accordance with the Subcontract Documents.

§ 4.7 Indemnification

§ 4.7.1 To the fullest extent permitted by law, the Subcontractor shall indemnify and hold harmless the Owner, Contractor, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses, and expenses, including but not limited to attorney's fees, arising out of or resulting from performance of the Subcontractor's Work under this Subcontract, provided that any such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by the negligent acts or omissions of the Subcontractor, the Subcontractor's Sub-subcontractors, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss, or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or otherwise reduce other rights or obligations of indemnity which would otherwise exist as to a party or person described in this Section 4.7.

§ 4.7.2 In claims against any person or entity indemnified under this Section 4.7 by an employee of the Subcontractor, the Subcontractor's Sub-subcontractors, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, the indemnification obligation under Section 4.7.1 shall not be limited by a limitation on the amount or type of damages, compensation or benefits payable by or for the Subcontractor, or the Subcontractor's Sub-subcontractors under workers' compensation acts, disability benefit acts, or other employee benefit acts.

§ 4.8 Remedies for Nonpayment

If the Contractor does not pay the Subcontractor through no fault of the Subcontractor, within seven days from the time payment should be made as provided in this Agreement, the Subcontractor may, without prejudice to any other available remedies, upon seven additional days' notice to the Contractor, stop the Work of this Subcontract until payment of the amount owing has been received. The Subcontract Sum shall, by appropriate Modification, be increased by the amount of the Subcontractor's reasonable costs of demobilization, delay, and remobilization.

§ 4.9 Professional Services Provided by Subcontractor

§ 4.9.1 The Subcontractor shall not be required to provide professional services that constitute the practice of architecture or engineering unless such services are specifically required by the Subcontract Documents or unless the Subcontractor is required to provide such services in order to carry out the Subcontractor's responsibilities for its own construction means, methods, techniques, sequences, and procedures. The Subcontractor shall not be required to provide professional services in violation of applicable law.

§ 4.9.2 If professional design services or certifications by a design professional related to systems, materials, or equipment are specifically required of the Subcontractor by the Subcontract Documents, the Contractor will provide all performance and design criteria that such services must satisfy to the extent the Contractor has received such performance and design criteria from the Owner and Architect under the terms of the Prime Contract.

§ 4.9.3 If professional design services or certifications by a design professional are required because of means, methods, techniques, sequences, or procedures required by the Contractor and related to the Work of the Subcontractor, the Contractor will provide all performance and design criteria that such services must satisfy.

§ 4.9.4 The Subcontractor shall be entitled to rely upon the adequacy, accuracy, and completeness of the performance and design criteria received from the Contractor under this Section 4.9.

§ 4.9.5 The Subcontractor shall cause the professional services performed under this Section 4.9 to be provided by a properly licensed design professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, Shop Drawings, and other submittals prepared by such professional. Shop drawings and other submittals related to the Work designed by such design professional shall bear the professional's written approval when submitted to the Contractor. The Contractor shall be entitled to rely upon the adequacy, accuracy, and completeness of the services, certifications, and approvals performed or provided by the design professionals, provided the Contractor has provided to the Subcontractor all performance and design criteria required by this Section 4.9.

ARTICLE 5 CHANGES IN THE WORK

§ 5.1 The Owner may make changes in the Work by issuing Modifications to the Prime Contract. Upon receipt of a Modification to the Prime Contract issued subsequent to the execution of this Agreement, the Contractor shall promptly notify the Subcontractor of such Modification. Unless otherwise directed by the Contractor, the Subcontractor shall not thereafter order materials or perform Work that would be inconsistent with the changes made by the Modification to the Prime Contract.

§ 5.2 The Subcontractor may be ordered in writing by the Contractor, without invalidating this Subcontract, to make changes in the Work within the general scope of this Subcontract consisting of additions, deletions, or other revisions, including those required by Modifications to the Prime Contract issued subsequent to the execution of this Agreement, with the Subcontract Sum and the Subcontract Time adjusted accordingly. The Subcontractor, prior to the commencement of such changed or revised Work, shall submit promptly to the Contractor written copies of a Claim for adjustment to the Subcontract Sum and Subcontract Time for such revised Work in a manner consistent with requirements of the Subcontract Documents.

§ 5.3 The Subcontractor shall make all Claims promptly to the Contractor for additional cost, extensions of time and damages for delays, or other causes in accordance with the Subcontract Documents. A Claim which will affect or become part of a Claim which the Contractor is required to make under the Prime Contract within a specified time period or in a specified manner shall be made in sufficient time to permit the Contractor to satisfy the requirements of the Prime Contract. Such Claims shall be received by the Contractor not less than two working days preceding the time by which the Contractor's Claim must be made. Failure of the Subcontractor to make such a timely Claim shall bind the Subcontractor to the same consequences as those to which the Contractor is bound.

ARTICLE 6 CLAIMS AND DISPUTES

§ 6.1 Mediation

§ 6.1.1 Claims, disputes, or other matters in controversy arising out of or related to this Subcontract, except those waived as provided for in Sections 6.4 and 11.3.2, shall be subject to mediation as a condition precedent to binding dispute resolution.

§ 6.1.2 The parties shall endeavor to resolve their Claims by mediation which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Mediation Procedures in effect on the date of the Agreement. A request for mediation shall be made in writing, delivered to the other party to this Subcontract and filed with the person or entity administering the mediation. The request may be made concurrently with the filing of binding dispute resolution proceedings but, in such event, mediation shall proceed in advance of binding dispute resolution proceedings, which shall be stayed pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. If an arbitration is stayed pursuant to this Section 6.1.2, the parties may nonetheless proceed to the selection of the arbitrators(s) and agree upon a schedule for later proceedings.

§ 6.1.3 The parties shall share the mediator's fee and any filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof.

§ 6.2 Binding Dispute Resolution

For any Claim subject to, but not resolved by mediation pursuant to Section 6.1, the method of binding dispute resolution shall be as follows:

(Check the appropriate box.)

☒ [X] Arbitration pursuant to Section 6.3 of this Agreement

☐ [] Litigation in a court of competent jurisdiction

☐ [] Other: *(Specify)*

If the Contractor and Subcontractor do not select a method of binding dispute resolution, or do not subsequently agree in writing to a binding dispute resolution method other than litigation, Claims will be resolved by litigation in a court of competent jurisdiction.

§ 6.3 Arbitration

§ 6.3.1 If the Contractor and Subcontractor have selected arbitration as the method of binding dispute resolution in Section 6.2, any Claim subject to, but not resolved by, mediation shall be subject to arbitration which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Arbitration Rules in effect on the date of this Agreement. The arbitration should be conducted in the place where the Project is located, unless another location is mutually agreed upon. A demand for arbitration shall be made in writing, delivered to the other party to the Subcontract, and filed with the person or entity administering the arbitration. The party filing a notice of demand for arbitration must assert in the demand all Claims then known to that party on which arbitration is permitted to be demanded.

§ 6.3.2 A demand for arbitration shall be made no earlier than concurrently with the filing of a request for mediation but in no event shall it be made after the date when the institution of legal or equitable proceedings based on the Claim would be barred by the applicable statute of limitations. For statute of limitations purposes, receipt of a written demand for arbitration by the person or entity administering the arbitration shall constitute the institution of legal or equitable proceedings based on the Claim.

§ 6.3.3 The award rendered by the arbitrator or arbitrators shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.

§ 6.3.4 The foregoing agreement to arbitrate, and other agreements to arbitrate with an additional person or entity duly consented to by parties to the Agreement, shall be specifically enforceable under applicable law in any court having jurisdiction thereof.

§ 6.3.5 Consolidation or Joinder

§ 6.3.5.1 Subject to the rules of the American Arbitration Association or other applicable arbitration rules, either party may consolidate an arbitration conducted under this Agreement with any other arbitration to which it is a party provided that (1) the arbitration agreement governing the other arbitration permits consolidation; (2) the arbitrations to be consolidated substantially involve common questions of law or fact; and (3) the arbitrations employ materially similar procedural rules and methods for selecting arbitrator(s).

§ 6.3.5.2 Subject to the rules of the American Arbitration Association or other applicable arbitration rules, either party may include by joinder persons or entities substantially involved in a common question of law or fact whose presence is required if complete relief is to be accorded in arbitration, provided that the party sought to be joined consents in writing to such joinder. Consent to arbitration involving an additional person or entity shall not constitute consent to arbitration of a Claim, dispute, or other matter in question not described in the written consent.

§ 6.3.5.3 The Contractor and Subcontractor grant to any person or entity made a party to an arbitration conducted under this Section 6.3, whether by joinder or consolidation, the same rights of joinder and consolidation as the Contractor and Subcontractor under this Agreement.

§ 6.4 Waiver of Claims for Consequential Damages

The Contractor and Subcontractor waive claims against each other for consequential damages arising out of or relating to this Subcontract, including without limitation, any consequential damages due to either party's termination in accordance with Article 7. Nothing contained herein shall be deemed to preclude an award of liquidated damages, when applicable, in accordance with the requirements of this Agreement.

ARTICLE 7 TERMINATION, SUSPENSION OR ASSIGNMENT OF THE SUBCONTRACT

§ 7.1 Termination by the Subcontractor

The Subcontractor may terminate the Subcontract for the same reasons and under the same circumstances and procedures with respect to the Contractor as the Contractor may terminate with respect to the Owner under the Prime Contract, or for nonpayment of amounts due under this Subcontract for 60 days or longer. In the event of such termination by the Subcontractor for any reason which is not the fault of the Subcontractor, the Subcontractor's Sub-subcontractors, or their agents or employees or other persons or entities performing portions of the Work under contract with the Subcontractor, the Subcontractor shall be entitled to recover from the Contractor payment for Work executed and for proven loss with respect to materials, equipment, tools, and construction equipment and machinery, as well as reasonable overhead and profit on work not executed and costs incurred by reason of such termination.

§ 7.2 Termination by the Contractor

§ 7.2.1 Termination for Cause

If the Subcontractor repeatedly fails or neglects to carry out the Work in accordance with the Subcontract Documents or otherwise to perform in accordance with this Subcontract and fails within a ~~ten-day~~ 72 hour period after receipt of notice to commence and continue correction of such default or neglect with diligence and promptness, the Contractor may, by notice to the Subcontractor and without prejudice to any other remedy the Contractor may have, terminate the Subcontract and finish the Subcontractor's Work by whatever method the Contractor may deem expedient. If the unpaid balance of the Subcontract Sum exceeds the expense of finishing the Subcontractor's Work and other damages incurred by the Contractor and not expressly waived, such excess shall be paid to the Subcontractor. If such expense and damages exceed the unpaid balance of the Subcontract Sum, the Subcontractor shall pay the difference to the Contractor.

§ 7.2.2 Termination for Convenience

§ 7.2.2.1 If the Owner terminates the Prime Contract for the Owner's convenience, the Contractor shall promptly deliver notice to the Subcontractor.

§ 7.2.2.2 In case of such termination for the Owner's convenience, the Subcontractor shall be entitled to receive payment for Work properly executed, costs incurred by reason of the termination, and reasonable overhead and profit on the Work not executed.

§ 7.2.2.3 Upon receipt of notice of termination, the Subcontractor shall

- .1 cease operations as directed by the Contractor in the notice;
- .2 take actions necessary, or that the Contractor may direct, for the protection and preservation of the Work; and
- .3 except for Work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing Sub-subcontracts and purchase orders and enter into no further Sub-subcontracts and purchase orders.

§ 7.3 Suspension by the Contractor for Convenience

§ 7.3.1 The Contractor may, without cause, order the Subcontractor in writing to suspend, delay, or interrupt the Work of this Subcontract in whole or in part for such period of time as the Contractor may determine. In the event of suspension ordered by the Contractor, the Subcontractor shall be entitled to an equitable adjustment of the Subcontract Time and Subcontract Sum.

§ 7.3.2 The Subcontract Time and Subcontract Sum shall be adjusted for increases in the cost and time caused by suspension, delay or interruption as described in Section 7.3.1. Adjustment of the Subcontract Sum shall include profit on the increased cost of performance caused by suspension, delay, or interruption. No adjustment shall be made to the extent that

- .1 performance is, was or would have been so suspended, delayed, or interrupted by another cause for which the Subcontractor is responsible; or
- .2 an equitable adjustment is made or denied under another provision of this Subcontract.

§ 7.4 Assignment of the Subcontract

§ 7.4.1 In the event the Owner terminates the Prime Contract for cause, this Subcontract is assigned to the Owner pursuant to Section 5.4 of AIA Document A201–2017 provided the Owner accepts the assignment by notifying the Contractor and Subcontractor.

§ 7.4.2 Without the Contractor's written consent, the Subcontractor shall not assign the Work of this Subcontract, subcontract the whole of this Subcontract, or subcontract portions of this Subcontract.

ARTICLE 8 THE WORK OF THIS SUBCONTRACT

The Subcontractor shall execute the following portion of the Work described in the Subcontract Documents, including all labor, materials, equipment, services and other items required to complete such portion of the Work, except to the extent specifically indicated in the Subcontract Documents to be the responsibility of others.

(Insert a precise description of the Work of this Subcontract, referring where appropriate to numbers of Drawings, sections of Specifications and pages of Addenda, Modifications, and accepted alternates.)

ARTICLE 9 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

§ 9.1 The date of commencement of the Subcontractor's Work, shall be:

(Check one of the following boxes.)

☐ The date of this Agreement.

☐ A date set forth in a notice to proceed issued by the Contractor.

☐ Established as follows:

(Insert a date or a means to determine the date of commencement of the Subcontractor's Work.)

If a date of commencement of the Subcontractor's Work is not selected, then the date of commencement shall be the date of this Agreement.

§ 9.2 Subcontract Time

§ 9.2.1 The Subcontract Time is the period of time, including authorized adjustments, allotted in the Subcontract Documents for Substantial Completion of the Work described in the Subcontract Documents. The Subcontract Time shall be measured from the date of commencement of the Subcontractor's Work.

§ 9.2.2 Subject to adjustments of the Subcontract Time as provided in the Subcontract Documents, the Subcontractor shall achieve substantial completion of the Subcontractor's Work:

(Check one of the following boxes and complete the necessary information.)

☐ Not later than () calendar days from the date of commencement of the Subcontractor's Work.

☐ By the following date:

§ 9.2.3 Subject to adjustments of the Subcontract Time as provided in the Subcontract Documents, if portions of the Subcontractor's Work are to be completed prior to substantial completion of the Subcontractor's Work, then the Subcontractor shall achieve earlier substantial completion of such portions by the following dates.

(List all portions of the Subcontractor's Work required to achieve substantial completion of the Subcontractor's Portion of the Work.)

Portion of Work

Substantial Completion

§ 9.2.4 If the Subcontractor fails to achieve substantial completion as provided in this Section 9.2, liquidated damages, if any, shall be assessed as set forth in Section 3.4.

§ 9.3 With respect to the obligations of both the Contractor and the Subcontractor, time is of the essence of this Subcontract.

§ 9.4 No extension of time will be valid without the Contractor's written consent after a Claim is made by the Subcontractor in accordance with Section 5.3.

§ 9.5 Updated schedules will be distributed by the Contractor either via email or through the Procore Correspondence tool. Updated schedules must be reviewed by the Subcontractor in a timely manner. The Subcontractor shall notify the Contractor of any issues or concerns with the updated schedules within 48 hours of receipt of updated schedules. The Subcontractor acknowledges that interim milestone dates, activity durations, or sequencing shown in the Project Schedule may be updated to reflect project conditions, coordination requirements, or improvements in workflow. Both the Contractor and Subcontractor agree that such schedule updates or adjustments shall not modify or extend the Contract Completion Date established under the Prime Contract unless expressly approved in a written Change Order executed by the Owner and the Contractor. Any schedule update issued pursuant to this provision is for coordination and planning only and does not constitute a change in the Contract Time.

ARTICLE 10 SUBCONTRACT SUM

§ 10.1 The Contractor shall pay the Subcontractor the Subcontract Sum in current funds for the Subcontractor's performance of the Subcontract. The Subcontract Sum shall be (\$), subject to additions and deductions as provided in the Subcontract Documents.

§ 10.2 Alternates

§ 10.2.1 Alternates, if any, included in the Subcontract Sum:

Item	Price
------	-------

§ 10.2.2 Subject to the conditions noted below, the following alternates may be accepted by the Contractor following execution of this Agreement. Upon acceptance, the Contractor shall issue a Modification to this Subcontract: *(Insert below each alternate and the conditions that must be met for the Contractor to accept the alternate.)*

Item	Price	Conditions for Acceptance
------	-------	---------------------------

§ 10.3 Unit prices, if any:

(Identify and state the unit price, and quantity limitations, if any, to which the unit price will be applicable.)

Item	Units and Limitations	Price Per Unit (\$0.00)
------	-----------------------	-------------------------

§ 10.4 Allowances, if any, included in the Subcontract Sum:

(Identify allowance and state exclusions, if any, from the allowance price.)

Item	Price
------	-------

ARTICLE 11 PAYMENTS

§ 11.1 Progress Payments

§ 11.1.1 Based upon Applications for Payment submitted to the Contractor by the Subcontractor, corresponding to Applications for Payment submitted by the Contractor to the Architect, and Certificates for Payment issued by the Architect, the Contractor shall make progress payments on account of the Subcontract Sum to the Subcontractor as provided below and elsewhere in the Subcontract Documents. Unless the Contractor provides the Owner with a payment bond in the full penal sum of the Contract Sum, payments received by the Contractor and Subcontractor for Work properly performed by their contractors and suppliers shall be held by the Contractor and Subcontractor for those contractors or suppliers who performed Work or furnished materials, or both, under contract with the Contractor or Subcontractor for which payment was made to the Contractor by the Owner or to the Subcontractor by the Contractor, as applicable. Nothing contained herein shall require money to be placed in a separate account and not commingled with money of the Contractor or Subcontractor, shall create any fiduciary liability or tort liability on the part of the Contractor or Subcontractor for breach of trust, or shall entitle any person or entity to an award of punitive damages against the Contractor or Subcontractor for breach of the requirements of this provision.

§ 11.1.2 The period covered by each Application for Payment shall be one calendar month ending on the last day of the month, or as follows:

Retainage will match the retainage held by the Owner.

Progress payments may be withheld for the following:

- Failure to provide shop drawings in a timely manner
- Failure to provide previous signed lien releases for all material purchases
- Failure to provide supplier/sub-tier list
- Failure to provide back up for stored materials
- Failure to provide insurance

Requirements prior to the first application for payment:

- A list of material suppliers and sub-tier subcontractors (See Attachment #1)
- An approved schedule of values (SOV), including the break out of sub-tier and supplier amounts. Invoices may be requested to provide back up for these amounts.
- Insurance that meets the minimum insurance requirements (see attachment)
- Fully executed contract

At Scull Construction's discretion, Subcontractor may receive joint checks with sub-tiers/suppliers.

Any billing for stored material must include the following:

- Proof of insurance at the location material is stored
- Photo proof of the stored material
- An invoice for the stored material
- Note: stored material can only be billed for the exact amount as is invoiced.

Lien waivers that are sent out with checks will be required back fully signed before any additional payments will be issued.

All contracts and required insurances are required back before any payment is issued. Schedule of Values to reflect exact amounts to the sub-tier and suppliers. All pay applications must submit invoices to support line items that are being billed for.

§ 11.1.3 Provided an Application for Payment is received by the Contractor not later than the day of a month, the Contractor shall include the Subcontractor's Work covered by that application in the next Application for Payment which the Contractor is entitled to submit to the Architect. The Contractor shall pay the Subcontractor each progress payment no later than seven working days after the Contractor receives payment from the Owner. If the Architect does not issue a Certificate for Payment or the Contractor does not receive payment for any cause which is not the fault of the Subcontractor, the Contractor shall pay the Subcontractor, on demand, a progress payment computed as provided in Sections 11.1.7, 11.1.8, 11.1.9 and 11.2.

§ 11.1.4 If the Subcontractor's Application for Payment is received by the Contractor after the application date fixed above, the Subcontractor's Work covered by it shall be included by the Contractor in the next Application for Payment submitted to the Architect.

§ 11.1.5 The Subcontractor shall submit to the Contractor a schedule of values prior to submitting the Subcontractor's first Application for Payment. Each subsequent Application for Payment shall be based upon the most recent schedule of values submitted by the Subcontractor in accordance with the Subcontract Documents. The schedule of values shall allocate the entire Subcontract Sum among the various portions of the Subcontractor's Work and be prepared in such form and supported by such data to substantiate its accuracy as the Contractor may require, and unless objected to by the Contractor, shall be used as a basis for reviewing the Subcontractor's Applications for Payment.

§ 11.1.6 Applications for Payment submitted by the Subcontractor shall indicate the percentage of completion of each portion of the Subcontractor's Work as of the end of the period covered by the Application for Payment.

§ 11.1.7 Subject to the provisions of the Subcontract Documents, the amount of each progress payment shall be computed as follows:

§ 11.1.7.1 The amount of each progress payment shall first include:

- .1 That portion of the Subcontract Sum properly allocable to completed Work;
- .2 That portion of the Subcontract Sum properly allocable to materials and equipment delivered and suitably stored at the site by the Subcontractor for subsequent incorporation in the Subcontractor's Work or, if approved by the Contractor, suitably stored off the site at a location agreed upon in writing; and
- .3 The amount, if any, for changes in the Work that are not in dispute and have been properly authorized by the Contractor, to the same extent provided in the Prime Contract, pending a final determination by the Contractor of the cost of changes in the Subcontractor's Work, even though the Subcontract Sum has not yet been adjusted.

§ 11.1.7.2 The amount of each progress payment shall then be reduced by:

- .1 The aggregate of previous payments made by the Contractor;
- .2 The amount, if any, for Work that remains uncorrected and for which the Contractor has previously withheld a Certificate for Payment as provided in Article 9 of AIA Document A201-2017 for a cause that is the fault of the Subcontractor;
- .3 For Work performed or defects discovered since the last payment application, any amount for which the Contractor may withhold payment in whole or in part, as provided in Article 9 of AIA Document A201-2017, for a cause that is the fault of the Subcontractor; and
- .4 Retainage withheld pursuant to Section 11.1.8 of this Agreement.

§ 11.1.8 Retainage

§ 11.1.8.1 For each progress payment made prior to substantial completion of the Subcontractor's Work, the Contractor may withhold the following amounts as retainage from the payment otherwise due:

(Insert a percentage or amount to be withheld as retainage from each Application for Payment. The amount of retainage may be limited by governing law.)

§ 11.1.8.1.1 The following items are not subject to retainage:

(Insert any items not subject to the withholding of retainage, such as general conditions, insurance, etc.)

§ 11.1.8.2 Reduction or limitation of retainage, if any, shall be as follows:

(If the retainage established in Section 11.1.8.1 is to be modified prior to substantial completion of the entire Work, including modifications for substantial completion of portions of the Subcontractor's Work as provided in Section 9.2.3, insert provisions for such modification.)

§ 11.1.9 Upon the partial or entire disapproval by the Contractor of the Subcontractor's Application for Payment, the Contractor shall provide notice to the Subcontractor. If the Subcontractor disputes the Contractor's decision regarding a Subcontractor's Application for Payment in whole or in part, the Subcontractor may submit a Claim in accordance with Article 6. When the basis for the disapproval has been remedied, the Subcontractor shall be paid the amounts withheld.

§ 11.1.10 Provided the Contractor has fulfilled its payment obligations under the Subcontract Documents, the Subcontractor shall defend and indemnify the Contractor and Owner from all loss, liability, damage, or expense, including reasonable attorney's fees and litigation expenses, arising out of any lien claim or other claim for payment by any of the Subcontractor's subcontractors, suppliers, or vendors of any tier. Upon receipt of notice of such lien claim or other claim for payment, the Contractor shall notify the Subcontractor. If approved by the applicable court, when required, the Subcontractor may substitute a surety bond for the property against which the lien or other claim for payment has been asserted.

§ 11.2 Substantial Completion

When the Subcontractor's Work or a designated portion thereof is substantially complete and in accordance with the requirements of the Prime Contract, the Contractor shall, upon application by the Subcontractor, make prompt Application for Payment for such Work. Within 30 days following issuance by the Architect of the Certificate for Payment covering such substantially completed Work, the Contractor shall, to the full extent allowed in the Prime Contract, make payment to the Subcontractor, deducting any portion of the funds for the Subcontractor's Work withheld in accordance with the certificate to cover costs of items to be completed or corrected by the Subcontractor. Such payment to the Subcontractor shall be the entire unpaid balance of the Subcontract Sum if a full release of retainage is allowed under the Prime Contract for the Subcontractor's Work prior to the completion of the entire Project. If the Prime Contract does not allow for a full release of retainage, then such payment shall be an amount which, when added to previous payments to the Subcontractor, will reduce the retainage on the Subcontractor's substantially completed Work to the same percentage of retainage as that on the Contractor's Work covered by the certificate.

§ 11.3 Final Payment

§ 11.3.1 Final payment, constituting the entire unpaid balance of the Subcontract Sum, shall be made by the Contractor to the Subcontractor when the Subcontractor's Work is fully performed in accordance with the requirements of the Subcontract Documents, the Architect has issued a Certificate for Payment covering the Subcontractor's completed Work and the Contractor has received payment from the Owner. If, for any cause which is not the fault of the Subcontractor, a Certificate for Payment is not issued or the Contractor does not receive timely payment or does not pay the Subcontractor within seven days after receipt of payment from the Owner, final payment to the Subcontractor shall be made upon demand.

(Insert provisions for earlier final payment to the Subcontractor, if applicable.)

§ 11.3.2 Before issuance of the final payment, the Subcontractor, if required, shall submit evidence satisfactory to the Contractor that all payrolls, bills for materials and equipment, and all known indebtedness connected with the Subcontractor's Work have been satisfied. Acceptance of final payment by the Subcontractor shall constitute a waiver of claims by the Subcontractor, except those previously made in writing and identified by the Subcontractor as unsettled at the time of final Application for Payment.

§ 11.4 Interest

Payments due and unpaid under this Subcontract shall bear interest from the date payment is due at such rate as the parties may agree upon in writing or, in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located.

(Insert rate of interest agreed upon, if any.)

%

ARTICLE 12 INSURANCE AND BONDS

§ 12.1 Subcontractor's Required Insurance Coverage

§ 12.1.1 The Subcontractor shall purchase and maintain the following types and limits of insurance, from a company or companies lawfully authorized to issue insurance in the jurisdiction where the Project is located, as will protect the Subcontractor from claims that may arise out of, or result from, the Subcontractor's operations and completed operations under the Subcontract:

(Specify each type of insurance, such as commercial general liability, automobile, worker's compensation, employers' liability, professional liability, and pollution, required to be carried by the Subcontractor, the limits of coverage for each type of insurance, and any other pertinent requirements.)

Type of Insurance	Limits	Other Pertinent Requirements
See Attachment #3: Minimum Insurance Requirements		

§ 12.1.2 Coverages, whether written on an occurrence or claims-made basis, shall be maintained without interruption from the date of commencement of the Subcontractor's Work until the date of final payment and termination of any coverage required to be maintained after final payment to the Subcontractor, and, with respect to the Subcontractor's completed operations coverage, until the expiration of the period for correction of Work or for such other period for maintenance of completed operations coverage as specified in the Prime Contract.

§ 12.1.3 If professional services are required under Section 4.9, the Subcontractor shall provide the professional liability insurance coverage required under this Section 12.1 for the following period after completion of the Work:

§ 12.1.4 Certificates of Insurance. The Subcontractor shall provide certificates of insurance acceptable to the Contractor evidencing compliance with the requirements in this Article 12 at the following times: (1) prior to commencement of the Subcontractor's Work; (2) upon renewal or replacement of each required policy of insurance; and (3) upon the Contractor's written request. An additional certificate evidencing continuation of liability coverage, including coverage for completed operations, shall be submitted with the final Application for Payment and thereafter upon renewal or replacement of such coverage until the expiration of the time required in this Article 12. The certificates shall show the Contractor and the Owner as additional insureds on the Subcontractor's Commercial General Liability and any excess or umbrella liability policy.

§ 12.1.5 Deductibles and Self-Insured Retentions. The Subcontractor shall disclose to the Contractor any deductible or self-insured retentions applicable to any insurance required to be provided by the Subcontractor.

§ 12.1.6 Additional Insured Obligations. To the fullest extent permitted by law, the Subcontractor shall cause its commercial general liability coverage to include: (1) the Contractor, the Owner, the Architect, and the Architect's consultants as additional insureds for claims caused in whole or in part by the Subcontractor's negligent acts or omissions during the Subcontractor's operations; and (2) the Contractor and Owner as additional insureds for claims caused in whole or in part by the Subcontractor's negligent acts or omissions for which loss occurs during the Subcontractor's completed operations. The additional insured coverage shall be primary and non-contributory to any of the Contractor's and Owner's general liability insurance policies and shall apply to both ongoing and completed operations. To the extent commercially available, the additional insured coverage shall be no less than that provided by Insurance Services Office, Inc. (ISO) CG 20 10 07 04, CG 20 37 07 04, and, with respect to the Architect and the Architect's consultants, CG 20 32 07 04.

§ 12.1.7 Notice of Cancellation or Change in Coverage. Within three (3) business days of the date the Subcontractor becomes aware of an impending or actual cancellation or expiration of any insurance required by the Subcontract Documents, the Subcontractor shall provide notice to the Contractor of such impending or actual cancellation or expiration. Upon receipt of notice from the Subcontractor, the Contractor shall, unless the lapse in coverage arises from an act or omission of the Contractor, have the right to suspend the Work in accordance with this Agreement until the lapse in coverage has been cured by the procurement of replacement coverage by the Subcontractor. The furnishing of notice by the Subcontractor shall not relieve the Subcontractor of any contractual obligation to provide any required coverage.

§ 12.2 Subcontractor's Required Performance Bond and Payment Bond

§ 12.2.1 The Subcontractor shall provide surety bonds, from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located, as follows:

(Specify type and penal sum of bonds.)

Type	Penal Sum (\$0.00)
Payment Bond	
Performance Bond	

Payment and Performance Bonds shall be AIA Document A312TM, Payment Bond and Performance Bond, or contain provisions identical to AIA Document A312TM, current as of the date of this Agreement.

§ 12.2.2 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations under this Agreement, the Subcontractor shall promptly furnish a copy of the bonds or shall permit a copy to be made.

§ 12.3 Contractor's Insurance and Bond Obligations

§ 12.3.1 The Contractor shall furnish to the Subcontractor certificates of insurance evidencing insurance coverage required of the Contractor under the Prime Contract.

§ 12.3.2 The Contractor shall promptly, upon request of the Subcontractor, furnish a copy or permit a copy to be made of any bond covering payment of obligations arising under the Subcontract.

§ 12.4 Property Insurance

§ 12.4.1 When requested in writing, the Contractor shall provide the Subcontractor with copies of the property and equipment policies in effect for the Project, to the extent copies of the policies are available to the Contractor. The Contractor shall notify the Subcontractor if the required property insurance policies are not in effect.

§ 12.4.2 If the required property insurance is not in effect for the full value of the Subcontractor's Work, then the Subcontractor shall purchase insurance for the value of the Subcontractor's Work, and the Subcontractor shall be reimbursed for the cost of the insurance by an adjustment in the Subcontract Sum.

§ 12.4.3 Property insurance for the Subcontractor's materials and equipment required for the Subcontractor's Work, stored off site or in transit and not covered by the Project property insurance, shall be paid for through the Application for Payment process.

§ 12.5 Waivers of Subrogation

The Contractor and Subcontractor waive all rights against (1) each other and any of their subcontractors, sub-subcontractors, agents, and employees, each of the other, and (2) the Owner, the Architect, the Architect's consultants, and (3) Separate Contractors, if any, and any of their subcontractors, sub-subcontractors, agents, and employees for damages caused by fire or other causes of loss to the extent those losses are covered by property insurance provided under the Prime Contract or other property insurance applicable to the Work or to property at or adjacent to the Project site, except such rights as they may have to proceeds of such insurance held by the Owner as a fiduciary. The Subcontractor shall require similar written waivers in favor of the individuals and entities enumerated herein from the Subcontractor's Sub-subcontractors, agents, and employees. The policies of insurance purchased and maintained by each person or entity agreeing to waive claims pursuant to this Section 12.5 shall not prohibit this waiver of subrogation, which shall be effective as to a person or entity (1) even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, (2) even though that person or entity did not pay the insurance premium directly or indirectly, or (3) whether or not the person or entity had an insurable interest in the property damaged.

ARTICLE 13 TEMPORARY FACILITIES, SERVICES, EQUIPMENT AND WORKING CONDITIONS

§ 13.1 The Contractor shall furnish and make the Contractor's temporary facilities and services available to the Subcontractor at no cost, except as noted below:

§ 13.2 The Contractor's equipment will be available to the Subcontractor only at the Contractor's discretion and on mutually satisfactory terms, except as noted below:

§ 13.3 Specific working conditions as noted below:

(Insert any specific arrangements or requirements concerning working conditions and labor matters applicable to the Subcontractor's Work.)

ARTICLE 14 MISCELLANEOUS PROVISIONS

§ 14.1 Where reference is made in this Subcontract to a provision of another Subcontract Document, the reference refers to that provision as amended or supplemented by other provisions of the Subcontract Documents.

§ 14.2 The Contractor's representative:

(Name, address, email address and other information)

§ 14.3 The Subcontractor's representative:

(Name, address, email address and other information)

§ 14.4 Notice

§ 14.4.1 Except as otherwise provided in Section 14.4.2, where the Subcontract Documents require one party to notify or give notice to the other party, such notice shall be provided in writing to the designated representative of the party to whom the notice is addressed and shall be deemed to have been duly served if delivered in person, by mail, by courier,

or by electronic transmission if a method for electronic notice is set forth in Section 14.4.3.

§ 14.4.2 Notice of Claims shall be provided in writing and shall be deemed to have been duly served only if delivered to the designated representative of the party to whom the notice is addressed by certified or registered mail, or by courier providing proof of delivery.

§ 14.4.3 Notice in electronic format, pursuant to Section 14.4.1, may be given in accordance with a building information modeling exhibit, AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, if completed, or as otherwise set forth below:

(If other than in accordance with a building information modeling exhibit, AIA Document E203™–2013, insert requirements for delivering notice in electronic format such as name, title, and email address of the recipient and whether and how the system will be required to generate a read receipt for the transmission.)

§ 14.5 Neither the Contractor's nor the Subcontractor's representative shall be changed without ten days' prior notice to the other party.

§ 14.6 The invalidity of any provision of the Subcontract Documents shall not invalidate the Subcontract or its remaining provisions. If it is determined that any provision of the Subcontract violates any law or is otherwise invalid or unenforceable, then that provision shall be revised to the extent necessary to make that provision legal and enforceable. In such case, the Subcontract shall be construed, to the fullest extent permitted by law, to give effect to the parties' intentions and purposes in executing the Subcontract.

§ 14.7 The parties shall agree upon written protocols governing the transmission and use of, and reliance on, of Instruments of Service or any other information or documentation in digital form. The parties will use AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, to establish the protocols for the development, use, transmission, and exchange of digital data.

§ 14.7.1 Any use of, or reliance on, all or a portion of a building information model without agreement to written protocols governing the use of, and reliance on, the information contained in the model and without having those protocols set forth in AIA Document E203™–2013, Building Information Modeling and Digital Data Exhibit, and the requisite AIA Document G202™–2013, Project Building Information Modeling Protocol Form, shall be at the using or relying party's sole risk and without liability to the other party and its contractors or consultants, the authors of, or contributors to, the building information model, and each of their agents and employees.

ARTICLE 15 ENUMERATION OF SUBCONTRACT DOCUMENTS

§ 15.1 This Agreement is comprised of the following documents:

- .1 AIA Document A401™–2017, Standard Form Agreement Between Contractor and Subcontractor;
- ~~.2 Prime Agreement between the Owner and Contractor, including all exhibits thereto, attached as Exhibit A;~~

- ~~.3 Building Information Modeling Exhibit, if completed;~~

- .4 Other Exhibits incorporated into this Agreement:
(Clearly identify any other exhibits incorporated into this Agreement.)

- .5 Other documents:
(List other documents, if any, forming part of the Agreement.)

Attachment #2: Prime Contractors' Exemption Certificate

Attachment #3: Minimum Insurance Requirements

Attachment #4: Certificate of Compliance

Attachment #5: Electronic Code of Federal Regulations

This Agreement entered into as of the day and year first written above.

CONTRACTOR *(Signature)*

(Printed name and title)

SUBCONTRACTOR *(Signature)*

(Printed name and title)



Additions and Deletions Report for AIA® Document A401® – 2017

This Additions and Deletions Report, as defined on page 1 of the associated document, reproduces below all text the author has added to the standard form AIA document in order to complete it, as well as any text the author may have added to or deleted from the original AIA text. Added text is shown underlined. Deleted text is indicated with a horizontal line through the original AIA text.

Note: This Additions and Deletions Report is provided for information purposes only and is not incorporated into or constitute any part of the associated AIA document. This Additions and Deletions Report and its associated document were generated simultaneously by AIA software at 12:05:04 MST on 12/15/2025.

Changes to original AIA text

PAGE 4

If the Subcontractor defaults or neglects to carry out the Work in accordance with this Agreement and fails within ~~five working days~~ 72 hours after receipt of notice from the Contractor to commence and continue correction of such default or neglect with diligence and promptness, the Contractor may, without prejudice to other remedies the Contractor may have, remedy such default or neglect and withhold, in accordance with Section 11.1.7.2, the reasonable cost thereof from current or future payments due the Subcontractor. If payments due to the Subcontractor are not sufficient to cover such amounts, the Subcontractor shall pay the difference to the Contractor.

PAGE 5

§ 4.2.8 The Subcontractor shall cooperate with the Contractor, other subcontractors, the Owner, and Separate Contractors whose work might affect the Subcontractor's Work. The Subcontractor shall participate in the preparation of coordinated drawings in areas of congestion, if required by the Prime Contract, specifically noting and advising the Contractor of potential conflicts between the Work of the Subcontractor and that of the Contractor, other subcontractors, the Owner, or Separate Contractors.

§ 4.2.9 At minimum, the Subcontractor shall:

- Participate in Pull Planning sessions for all major phases of work. Attendance is required for the Subcontractor's Project Manager and onsite Foreman. Pull Planning will be done with the intent of adjusting workflow sequencing. The Subcontractor must actively collaborate with project stakeholders to improve workflow reliability, minimize waste, and support project goals. While Pull Planning will allow for collaboration, it may require early starts, increased manpower/hours, adjusted stagger/flow, or additional partners to accomplish milestone dates.
- Create and maintain weekly Make-Ready plans aligning constraints, handoffs, and milestones.
- Participate in Weekly Work Planning (WWP) sessions.
- Participate in short 15 minute Daily Huddles at the time of superintendents choosing.
- Provide weekly task constraints and commitments. The Subcontractor shall notify the project team of constraints within 48 hours of identification.
- Track Percent Plan Complete (PPC) (reliable commitment tracking) and reasons for variance.
- Attend Continuous Improvement/Learning Meetings.
- Review, respond and sign off on Observations within Procore for Safety, Lean, Quality Corrections, Engineer/Architect Observation Reporting and/or Positive Behavior.
- Create Daily Log entries within Procore Daily Log tool describing number of workers, hours worked, location, comments regarding what work is being done, and photos of work completed.
- Use provided project templates and software including but not limited to Procore and Outbuild.

Persistent failure to meet any of the above stated commitments may result in escalation and/or corrective action planning.

4.3.2a – Provide SDS booklets for the chemicals known with subcontracts. Any additional chemicals used, provide SDS to superintendent prior to use of chemicals.

§ 4.5 Cleaning Up

4.4.6 The subcontractor shall be responsible for their own written safety programs and employee training as required by OSHA or MSHA. Provide a copy of safety plan to superintendent prior to start of any work on site and maintain a copy on site throughout the project. 4.4.7 The subcontractor's competent person must be on site whenever subcontractor's employees are working on this project. Competent persons means one who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous or dangerous to employees and who has the authorization to take prompt corrective measures to eliminate them. (OSHA CFR 1926.32 (f)). 4.4.8 Any fines by OSHA or other safety enforcement agencies as a result of a safety violation will be passed on the subcontractor in violation. 4.4.9 Subcontractor employees will be required to wear hard hats, safety glasses, high visibility clothing and boots on this project at ALL times. Employees may be asked to leave without the proper personal protective equipment

4.4.10 Scaffolding must be inspected by a qualified individual under the direction of Scull Construction Service, Inc. prior to use of scaffolding.

4.4.11 Subcontractor must attend Contractor-Subcontractor pre-construction meeting before starting work.

4.4.12 Subcontractor is required to go through the I-9 verification process with each of it's employees.

If the Subcontractor repeatedly fails or neglects to carry out the Work in accordance with the Subcontract Documents or otherwise to perform in accordance with this Subcontract and fails within a ~~ten-day~~ 72 hour period after receipt of notice to commence and continue correction of such default or neglect with diligence and promptness, the Contractor may, by notice to the Subcontractor and without prejudice to any other remedy the Contractor may have, terminate the Subcontract and finish the Subcontractor's Work by whatever method the Contractor may deem expedient. If the unpaid balance of the Subcontract Sum exceeds the expense of finishing the Subcontractor's Work and other damages incurred by the Contractor and not expressly waived, such excess shall be paid to the Subcontractor. If such expense and damages exceed the unpaid balance of the Subcontract Sum, the Subcontractor shall pay the difference to the Contractor.

§ 9.5 Updated schedules will be distributed by the Contractor either via email or through the Procore Correspondence tool. Updated schedules must be reviewed by the Subcontractor in a timely manner. The Subcontractor shall notify the Contractor of any issues or concerns with the updated schedules within 48 hours of receipt of updated schedules. The Subcontractor acknowledges that interim milestone dates, activity durations, or sequencing shown in the Project Schedule may be updated to reflect project conditions, coordination requirements,

or improvements in workflow. Both the Contractor and Subcontractor agree that such schedule updates or adjustments shall not modify or extend the Contract Completion Date established under the Prime Contract unless expressly approved in a written Change Order executed by the Owner and the Contractor. Any schedule update issued pursuant to this provision is for coordination and planning only and does not constitute a change in the Contract Time.

PAGE 13

Retainage will match the retainage held by the Owner.

Progress payments may be withheld for the following:

- Failure to provide shop drawings in a timely manner
- Failure to provide previous signed lien releases for all material purchases
- Failure to provide supplier/sub-tier list
- Failure to provide back up for stored materials
- Failure to provide insurance

Requirements prior to the first application for payment:

- A list of material suppliers and sub-tier subcontractors (See Attachment #1)
- An approved schedule of values (SOV), including the break out of sub-tier and supplier amounts. Invoices may be requested to provide back up for these amounts.
- Insurance that meets the minimum insurance requirements (see attachment)
- Fully executed contract

At Scull Construction's discretion, Subcontractor may receive joint checks with sub-tiers/suppliers.

Any billing for stored material must include the following:

- Proof of insurance at the location material is stored
- Photo proof of the stored material
- An invoice for the stored material
- Note: stored material can only be billed for the exact amount as is invoiced.

Lien waivers that are sent out with checks will be required back fully signed before any additional payments will be issued.

All contracts and required insurances are required back before any payment is issued. Schedule of Values to reflect exact amounts to the sub-tier and suppliers. All pay applications must submit invoices to support line items that are being billed for.

PAGE 15

Type of Insurance

Limits

Other Pertinent Requirements

See Attachment #3: Minimum Insurance Requirements

PAGE 18

§ 14.4.3 Notice in electronic format, pursuant to Section 14.4.1, may be given in accordance with a building information modeling exhibit, AIA Document E203™-2013, Building Information Modeling and Digital Data Exhibit, if completed, or as otherwise set forth below:

(If other than in accordance with a building information modeling exhibit, AIA Document E203™-2013, insert requirements for delivering notice in electronic format such as name, title, and email address of the recipient and whether and how the system will be required to generate a read receipt for the transmission.)

§ 14.7 The parties shall agree upon written protocols governing the transmission and use of, and reliance on, of Instruments of Service or any other information or documentation in digital form. The parties will use AIA Document E203™-2013, Building Information Modeling and Digital Data Exhibit, to establish the protocols for the development, use, transmission, and exchange of digital data.

§ 14.7.1 Any use of, or reliance on, all or a portion of a building information model without agreement to written protocols governing the use of, and reliance on, the information contained in the model and without having those protocols set forth in AIA Document E203™-2013, Building Information Modeling and Digital Data Exhibit, and the requisite AIA Document G202™-2013, Project Building Information Modeling Protocol Form, shall be at the using or relying party's sole risk and without liability to the other party and its contractors or consultants, the authors of, or contributors to, the building information model, and each of their agents and employees.

~~2 Prime Agreement between the Owner and Contractor, including all exhibits thereto, attached as Exhibit A;~~

~~3 Building Information Modeling Exhibit, if completed;~~

PAGE 19

Attachment #2: Prime Contractors' Exemption Certificate

Attachment #3: Minimum Insurance Requirements

Attachment #4: Certificate of Compliance

Attachment #5: Electronic Code of Federal Regulations

Variable Information

PAGE 1

-

PAGE 9

☒ Arbitration pursuant to Section 6.3 of this Agreement

Scull Construction Service, Inc.
PO Box 7636
Rapid City, SD
605-342-2379
605-342-8568



Attachment #3: MINIMUM INSURANCE REQUIREMENT

Subcontractors

All subcontractors of Scull Construction Service Inc. are required to have the following Minimum Insurance Requirements to begin work on our jobsite. Subcontractors shall procure and maintain, at its own expense, the insurance coverages set forth below and in your subcontract agreement. If Scull Construction Service, Inc. does not have the subcontractors certificate of insurance and/or does not meet the following requirements, the subcontractor will not be allowed on the jobsite and/or payments will be held until all requirements are met.

- ☐ Comprehensive General Liability – Bodily Injury & Property Damage – Combined Single Limit Premises/Job-Site Operations-Products/Complete Operation & Contractual Liability
LIMITS REQUIRED: \$1,000,000 Each Occurrence Limit
\$2,000,000 General Aggregate Limit with Per Project Aggregate
\$2,000,000 Products/Completed Operations Aggregate Limit
- ☐ Automobile Bodily Injury & Property Damage Liability Combined Single Limit (Including owned, non-owned, and hired automobiles)
LIMITS REQUIRED: \$1,000,000 Each Accident
- ☐ Umbrella Liability
LIMITS REQUIRED: \$1,000,000 Each Occurrence Limit
\$1,000,000 Aggregate
- ☐ Worker's Compensation – Statutory for the State of Operation and all states where work is to be performed. Coverage must include all persons at the work site, including sole proprietors, partners and executive officers of a corporation.
LIMITS REQUIRED: \$500,000 – Each Accident
\$500,000 – Each Disease
\$500,000 – Each Employee Disease
- ☐ If owner/operator is **ONLY** employee on jobsite, work comp is not required. However, an Additional Affidavit of Exempt Status is required. (Available upon request)
- ☐ Certificates of Insurance **MUST** state the legal project name & location in the description section.
- ☐ Subcontractors or second-tier subcontractors **MUST** name Scull Construction Service, Inc./ Scull Construction Service ND, Inc. as an additional Insured on a primary and non-contributory basis as respect General Liability per form CG2010 07 04, CG2037 07 04 & CG2001 04 13 for statute of repose, Auto Liability, and Umbrella Liability coverage's. This **MUST** be stated as such on the Certificate of Insurance. **If you are unable to put this information directly on the certificate, the endorsement pages stating such coverages are then required.**
- ☐ Waiver of Subrogation in favor of the additional insured applies to General Liability, Auto Liability, umbrella liability and worker's compensation. This **MUST** be stated as such on the Certificate of Insurance. **If you are unable to put this information directly on the certificate, the endorsement pages stating such coverages are then required.**
- ☐ A firm 30 day cancellation notice is required.
- ☐ If you are a North Dakota or Wyoming Subcontractor and you have your Work Comp coverages through the State, your WSI Certificate of Premium Payment (ND) or Certificate of Good Standing (WY) is required.

Signed By

Date

Title



Safety Policy



SCULL CONSTRUCTION SERVICE, INC.

SAFETY PLAN

Work Type Code: 1.0

CORPORATE COMMITMENT...	3
RESPONSIBILITIES...	4
BLOODBORNE PATHOGENS...	7
CONFINED SPACE ENTRY...	14
DISCIPLINARY PROGRAM...	20
SUBCONTRACTOR SAFETY RESPONSIBILITIES...	22
ELECTRICAL SAFETY (NON-QUALIFIED)...	25
STEEL ERECTION POLICY...	30
FALL PROTECTION PROGRAM...	38
FIRE PROTECTION...	44
FIRST AID/CPR...	45
FORKLIFT...	47
GROUNDING CONDUCTOR PROGRAM...	50
HAZARD COMMUNICATION PROGRAM...	52
LIFTING, MOBILE EQUIPMENT...	55
LOCKOUT/TAGOUT...	59
NOISE EXPOSURE...	65
PERSONAL PROTECTIVE EQUIPMENT ASSESSMENTS...	67
PROCESS SAFETY MANAGEMENT...	69
SCAFFOLDS (USERS ONLY)...	72
TRENCHING/SHORING...	74
WELDING, CUTTING AND HOT WORK...	79
SILICA POLICY...	85

SCULL CONSTRUCTION SERVICE, INC.

Corporate Commitment

Safety in all Scull Construction operations is not just a corporate goal *it is a requirement!*

To this end, we have formulated this written policy to govern all the operations of Scull Construction. It is a condition of employment with Scull Construction that all employees adhere faithfully to the requirements of this policy. As well as the safety rules, instructions, and procedures issued in conjunction with it. Failure to do so will result in disciplinary action.

It is a condition of all subcontracts and purchase orders issued by Scull Construction that this policy and the safety rules, instructions and procedures issued in conjunction with it, as well as all applicable state, federal and local codes and regulations be adhered to. Failure to comply is a breach of contract terms.

All visitors to any Scull Construction operation including but not limited to suppliers, owner representatives, agents of the architect or engineer, regulatory authorities and insurance company representatives shall be required to follow all safety rules and regulations in effect during their visit. Visitors will be required to participate in a safety orientation prior to coming onto the job site.

Scull Construction will make an effort to ensure that the operations of other contractors not under our control do not endanger the safety of our employees. To this end, all employees are required to report hazardous activities of other employees to appropriate Scull Construction officials.

The Safety Director, General Superintendent, Project Manager, Job Superintendents, and Foremen have the full support of the management in enforcing the provision of this policy as it relates to responsibilities assigned to them.

Sincerely,

Andrew J. Scull
President

Responsibilities

IT IS THE POLICY OF THIS COMPANY TO PROVIDE A SAFE AND HEALTHFUL PLACE OF EMPLOYMENT FOR ALL OF ITS EMPLOYEES.

THE SAME CONDITIONS WHICH CAUSE ACCIDENTS CAUSE, OR CAN CAUSE, OTHER EXPENSIVE OPERATING COSTS OR PROBLEMS. THESE MUST BE CONTROLLED IN THE SAME WAY AS ANY OTHER OPERATING PROBLEMS: THROUGH MANAGEMENT AWARENESS, LINES OF RESPONSIBILITY AND OPERATING STANDARDS.

It is therefore the purpose of this stated policy to:

1. Abide by all federal, state, and local regulations as they pertain to construction.
2. Apply good sense and safe practices to all jobs.
3. Exercise good judgment in the application of this policy.
4. Protect the public from all hazards, which result from our operations.

To further these goals the following assignments of responsibility are made:

Project Superintendents/Project Managers

1. Review pre-job hazard checklist.
2. Plan production so that all work will be done in compliance with established safety regulations.
3. Be completely responsible for on the job safety, health, and securing correction of safety deficiencies.
4. Make sure proper safety materials and protective devices are available and used, and that all equipment is in safe working order.
5. Assure that all new employees have been instructed as to job hazard controls prior to job assignment.
6. Instruct foremen and workers in safety requirements
7. Review accidents, supervise correction of unsafe practices, and file accident reports.
8. Conduct jobsite safety meetings and provide employees with proper instruction on safety requirements
9. Require conformance to safety standards from subcontractors
10. Notify company office of safety violations
11. Provide the protection of the public from company operations
12. Attempt to ensure safe performance by others present on the site, including owner and architect/engineer representatives, the general public, visitors, and employees of the contractors.
13. Work closely with corporate safety officer in eliminating unsafe practices, and participate in safety activities as requested.
14. Actively observe all job site areas for compliance of all OSHA, corporate, and client safety rules and regulations.

15. Ensure that all required OSHA postings are in place and up to date. Ensure that job site hazardous material lists and files of MSDS's are on site, up to date, and that all employees have been trained in accordance with the company Hazardous Communication Program.
16. Maintain adequate first aid supplies, first aid kits, and attend to minor first aid incidents on job site.
17. Maintain first aid logs, safety violation logs, and safety meeting attendance records.
18. Ensure all First Reports of Injury, Authorization of Treatment forms are completed and forwarded to the corporate safety office as soon as possible. (No later than the day of the accident/incident)
19. Coordinate with local health facilities for medical treatment of job related injuries and transportation to these facilities.

Safety Director

The Safety Director(s) shall be responsible for the effective application and administration of the safety program on a corporate level. His/her activities in this capacity shall include:

1. Set up methods of safety education through safety meetings, safety rules, procedures, and new employee indoctrination.
2. Conduct safety meetings on periodic basis.
3. Visit all jobs on a routine basis, and conduct safety surveys on these jobs to insure that safety rules and job procedures are being complied with.
4. Assist and consult with all department heads in their respective accident control problems.
5. Attend customer safety meetings.
6. Assist job superintendents in setting up files and completion of first reports of injury and OSHA record keeping programs.
7. Issue recommendations to jobs.
8. Review all accident reports and assure him/her that the necessary corrective action has been applied without undue delay.
9. Make an analysis of serious accidents and submit a report along with recommendations to management. Investigate unusual accidents or trends.
10. Provide management with up-to-date copies of federal, state, local codes, and standards.
11. The acquisition of safety supplies, clothing, equipment, and the proper use and maintenance of the same.
12. Assist the Project Superintendent in fulfilling his/her responsibilities with regard to safety.

Workers

1. Work safely in such a manner as to ensure your own safety as well as that of co-workers
2. Request help when unsure about how to perform any task safely.
3. Correct unsafe acts or conditions within the scope of the immediate work.
4. Report any uncorrected unsafe acts or conditions to the appropriate supervisor.
5. Report for work in good mental and physical condition to safely carry out assigned duties.
6. Avail yourself of company industry sponsored safety programs.
7. Use and maintain all safety devices provided.
8. Maintain and properly use all tools under your control.

9. Follow all safety rules.
10. Provide fellow employees help with safety requirements.
11. Keep all work areas clean and free of debris.
12. Assess result of your actions on the entire work place. Work will not be performed in ways that cause hazards for others.
13. Abide by the safety rules and regulations of every construction site.
14. Work in strict conformance with federal, state, and local regulations.

Architects, Engineers, Owners, and Visitors shall be requested to:

1. Abide by all safety rules.
2. Inform construction site superintendent before entering a construction site.
3. Check in with all jobsite supervisors so personal protective equipment may be provided such as hard hats, eye protection, and respirators if necessary.

Enforcement of safety and health rules

As with any system of rules, the safety, health program, and rules can only be effective if they are enforced. Each employee must be aware of and understand the rules, and be aware that they will be enforced.

The Occupational Safety and Health Standards for the Construction Industry 29, CFR Part 1926, are the basis for the Scull Construction's Safety Policy. (OSHA 1926) No policy or statement in this handbook is intended to conflict with Federal or State laws. If there is any conflict the provisions of the Federal and State law will apply.

At the discretion of the superintendent, serious or gross safety violations may result in immediate termination.

SCULL CONSTRUCTION SERVICE, INC.

Bloodborne Pathogens Program

Scope and Application

This written Exposure Control Plan (ECP) for SCULL CONSTRUCTION SERVICE, INC., in accordance with OSHA standard 29 CFR 1910.1030, applies to all occupational exposure to blood or other potentially infectious materials (OPIM), including:

- Human body fluids such as semen, vaginal secretions, cerebrospinal fluid, saliva in dental procedures, synovial fluid, pleural fluid, peritoneal fluid, amniotic fluid, any body fluid that is visibly contaminated with blood, and all body fluids in situations where it is difficult or impossible to differentiate between body fluids, and others as stated in 1910.1030(b) “definitions”.

The Exposure Control Plan is designed to eliminate or minimize employee exposure to blood or other potentially infectious material.

Administrative Duties

The Safety Director is responsible for implementing and maintaining the ECP. This plan is available to all employees in accordance with 1910.20(e) and is located in his/her office. The Safety Director is responsible for maintaining any records related to the Exposure Control Plan. The ECP shall be made available to the OSHA Assistant Secretary and the Director upon request for examining and copying.

Exposure Determination

We have determined which employees may incur occupational exposure to blood or OPIM. The exposure determination is made without regard to the use of personal protective equipment (i.e., employees are considered to be exposed even if they wear personal protective equipment.

All employees trained in First Aid/CPR will be exposed to bloodborne pathogens and are required to receive the Bloodborne Pathogen training.

Methods of Compliance

This plan includes a schedule and method of implementation for the various requirements of the standards.

Universal precautions shall be observed to prevent contact with blood or other potentially infectious materials. Under circumstances in which differentiation between body fluid types is difficult or impossible, all body fluids shall be considered potentially infectious materials.

Engineering and Work Practice Controls

Engineering and work practice controls will be used to eliminate or minimize exposure to employees. Where occupational exposure remains after institution of these controls, employees

are required to wear personal protective equipment. Engineering controls shall be examined and maintained or replaced on a regular schedule to ensure their effectiveness. At SCULL CONSTRUCTION SERVICE, INC., the following engineering controls are used:

- Performing procedures so that splashing, spraying, splattering, and producing drops of blood or OPIM is minimized.
- Removing soiled PPE as soon as possible.
- Cleaning and disinfecting all equipment and work surfaces potentially contaminated with blood or OPIM.
- Thorough hand washing with soap and water immediately after providing care or provision of antiseptic towelettes or hand cleaners where handwashing facilities are not available.
- Prohibition of eating, drinking, smoking, applying cosmetics, handling contact lenses, and so on in work areas where exposure to infectious materials may occur.
- Use of leak-proof, labeled containers for contaminated disposable waste or laundry.

Handwashing Facilities

Hand washing facilities are available to employees who have exposure to blood or OPIM. Sinks for washing hands after occupational exposure are near locations where exposure to bloodborne pathogens could occur.

When circumstances require handwashing and facilities are not available, either an antiseptic cleanser and paper towels or antiseptic towelettes are provided. Employees must then wash their hands with soap and water as soon as possible.

If employees' skin or mucous membranes become contaminated with blood or OPIM, then those areas are washed or flushed with water as soon as feasible following contact.

Sharps

Employees may not bend, recap, remove, shear, or purposely break contaminated needles and other sharps. If a procedure requires that the contaminated needle be recapped or removed and no alternative is feasible, then that employee must recap or remove the needle by using a mechanical device or a one-hand technique.

Handling Contaminated Sharps

The procedure for handling contaminated sharps is:

- Contaminated sharps are discarded immediately or as soon as possible in containers that are closeable, puncture resistant, leak proof on sides and bottom, and labeled or color-coded.
- During use, containers for contaminated sharps shall be easily accessible to personnel and located as close as possible to the immediate area where sharps are used or can be reasonably anticipated to be found (e.g., first aid stations).
- The containers are kept upright throughout use, replaced routinely, and not allowed to be overfilled.
- When moving containers of contaminated sharps from the area of use, the containers are closed immediately before removal or replacement to prevent spills or protrusion of contents

- during handling, storage, transport, or shipping.
- The containers are placed in a secondary container if leakage of the primary container is possible. The second container shall be closeable, constructed to contain all contents and prevent leakage during handling, storage and transport, or shipping. The second container shall be labeled or color-coded to identify its contents.
- Reusable containers shall not be opened, emptied, or cleaned manually or in any other manner which would expose employees to the risk of percutaneous injury.
- Any employee within a given area will collect and sterilize the reusable sharps.

Work Area Restrictions

In work areas where there is a reasonable likelihood of exposure to blood or OPIM, employees are not to eat, drink, apply cosmetics or lip balm, smoke, or handle contact lenses. Food and beverages are not to be kept in refrigerators, freezers, shelves, cabinets, or on counter tops or bench tops where blood or OPIM are present.

Contaminated Equipment or Environmental Surfaces

SCULL CONSTRUCTION SERVICE, INC. requires that all equipment or environment surfaces which have become contaminated with blood or OPIM must be cleaned & decontaminated before servicing or shipping as necessary unless the decontamination of the equipment is not feasible.

Personal Protective Equipment

All personal protective equipment (PPE) used at this facility is provided **without cost to the employees**. PPE is chosen based on the anticipated exposure to blood or OPIM. The protective equipment is considered appropriate only if it does not permit blood or OPIM to pass through or reach the employees' clothing, skin, eyes, mouth, or other mucous membranes under normal conditions of use and for the duration of time which the protective equipment will be used.

SCULL CONSTRUCTION SERVICE, INC. makes sure that appropriate sizes of protection are readily accessible at the work site and is issued **without cost to employees**.

PPE shall be used unless SCULL CONSTRUCTION SERVICE, INC. shows that employees temporarily declined to use PPE under rare circumstances.

Employees must remove all garments which are penetrated by blood immediately or as soon as possible.

They must remove all PPE before leaving the work area. When PPE is removed, employees place it in a designated container for disposal, storage, washing, or decontamination.

Gloves

Employees must wear gloves when they anticipate hand contact with blood, OPIM, non-intact skin, and mucous membranes when performing vascular access procedures, and when handling or touching contaminated items or surfaces.

Disposable gloves used at this facility are not to be washed or decontaminated for re-use and are to be replaced as soon as practical when they become contaminated or as soon as feasible if they are torn, punctured, or when their ability to function as a barrier is compromised.

Utility gloves may be decontaminated for re-use if the integrity of the glove is not compromised.

Utility gloves will be discarded if they are cracked, peeling, torn, punctured, or exhibits other signs of deterioration or when their ability to function as a barrier is compromised.

Housekeeping

All contaminated work surfaces are decontaminated after an exposure.

All bins, pails, cans, and similar receptacles are inspected and decontaminated on a regularly scheduled basis.

Any broken glassware which may be contaminated will not be picked up directly with the hands.

Handling Regulated Wastes

When handling regulated wastes, other than contaminated needles and sharps, we make sure it is:

- Placed in containers which are closeable, constructed to contain all contents, and prevent fluid leaks during handling, storage, transportation, or shipping.
- Labeled or color coded (red) and closed prior to removal to prevent spillage or protrusion of contents during handling, storage, transport, or shipping.

Handling Contaminated Laundry

Laundry contaminated with blood or OPIM is handled as little as possible. Such laundry is placed in appropriately marked (biohazard labeled, or color-coded red bag) bags at the location where it was used.

Our facility ships contaminated laundry off-site to a second facility.

Communication of Hazards to Employees

All bags and containers containing blood or OPIM and used to store, transport or ship this waste, shall be **RED in color**.

Information and Training

SCULL CONSTRUCTION SERVICE, INC. employees are trained by the Safety Director and/or outside consultants. All exposed employees are trained and all employees covered by the bloodborne pathogens standard are trained at the time of initial assignment to tasks where occupational exposure may occur, and every year thereafter as a refresher.

Training is tailored to the education and language level of the employee, is offered during the normal work shift **and at no cost to the employee**. The training will be interactive and cover the

following:

- The standard and its contents.
- The epidemiology and symptoms of bloodborne diseases.
- The modes of transmission of bloodborne pathogens.
- SCULL CONSTRUCTION SERVICE, INC. Bloodborne Pathogen ECP and a method for obtaining a copy.
- The recognition of tasks that may involve exposure.
- The use and limitations of methods to reduce exposure, for example engineering controls, work practices, and personal protective equipment (PPE).
- The types, use, location, removal, handling, decontamination, and disposal of PPEs.
- The basis of selection of PPEs.
- The Hepatitis B vaccination, including efficacy, safety, method of administration, benefits, and that it will be offered free of charge.
- The appropriate actions to take and persons to contact in an emergency involving blood or OPIM.
- The procedure to follow if an exposure incident occurs, including the method of reporting and medical follow-up.
- The evaluation and follow-up required after an employee exposure incident.

Additional training is provided to employees when there are any changes of tasks or procedures affecting the employee's occupational exposure. Employees who have received training on bloodborne pathogens in the 12 months preceding the effective date of this plan will only receive training in provisions of the plan that were not covered.

Recordkeeping

Training records of each employee shall be maintained for 3 years from the date of training. The following information shall be documented:

- The dates of the training sessions
- An outline describing the material presented
- The names and qualifications of persons conducting the training.
- The names and job titles of all persons attending the training sessions

Medical records shall be maintained in accordance with OSHA Standard 29 CFR 1910.20. These records shall be kept confidential, and must be maintained for at least the duration of employment plus 30 years. The records shall include the following:

The name and social security number of the employee.

- A copy of the employee's HBV vaccination status, including the dates of vaccination.
- A copy of all results of examinations, medical testing, and follow-up procedures.
- A copy of the information provided to the healthcare professional, including a description of the employee's duties as they relate to the exposure incident, and documentation of the routes of exposure and circumstances of the exposure.

Availability

All employee records shall be made available to the employee in accordance with 29 CFR 1910.20. All employee records shall be made available to the Assistant Secretary of Labor for the Occupational Safety and Health Administration and the Director of the National Institute for Occupational Safety and Health upon request and copying. Medical records must have written consent of the employee before being released.

Transfer of Records

If this facility is closed or there is no successor employer to receive and retain the records for the prescribed period, the Director of the NIOSH shall be contacted for final disposition.

Evaluation and Review

This program and its effectiveness is reviewed every year and updated as needed. All provisions required by this standard will be implemented by the Safety Director

Hepatitis B Vaccination Program

SCULL CONSTRUCTION SERVICE, INC. offers the Hepatitis B vaccine and vaccination series to all employees who have occupational exposure to blood borne pathogens, and post exposure follow-up to employees who have had an exposure incident.

All medical evaluations and procedures including the Hepatitis B vaccine and vaccination series and post exposure follow up, including prophylaxis are:

- Made available at **no cost to the employee.**
- Made available to the employee at a reasonable time and place.
- Performed by or under the supervision of a licensed physician or by or under the supervision of another licensed healthcare professional.
- Provided according to the recommendations of the U.S. Public Health Service.

All laboratory tests are conducted by an accredited laboratory at **no cost to the employee.** Hepatitis B vaccination is made available:

- After employees have been trained in occupational exposure, (see Information and Training).
- Within 10 working days of initial assignment.
- To all employees who have occupational exposure unless a given employee has previously received the complete Hepatitis B vaccination series, antibody testing has revealed that the employee is immune, or the vaccine is contraindicated for medical reasons.

Participation in a pre-screening program is not a prerequisite for receiving Hepatitis B vaccination. If the employee initially declines Hepatitis B vaccination but at a later date while still covered under the standard decides to accept the vaccination, the vaccination will be made available. All employees who decline the Hepatitis B vaccination offered must sign the OSHA-required waiver indicating their refusal.

If a routine booster dose of Hepatitis B, vaccine is recommended by the U.S. Public Health Service at a future date, such booster doses will be made available.

SCULL CONSTRUCTION SERVICE, INC.

Hepatitis B Vaccine Declination

I understand that due to my occupational exposure to blood or other potentially infectious materials, I may be at risk of acquiring Hepatitis B virus (HBV) infection.

I have been given the opportunity to be vaccinated with hepatitis B vaccine, at no charge to myself. However, I decline Hepatitis B vaccination at this time. I understand that by declining this vaccine, I continue to be at risk of acquiring Hepatitis B, a serious disease. If in the future, I continue to have occupational exposure to blood or other potentially infectious materials and I want to be vaccinated with Hepatitis B vaccine, I can receive the vaccination series at no charge to me.

Signature of Employee _____

Date_____

SCULL CONSTRUCTION SERVICE, INC.

Confined Space Entry Program

Scope and Application

The Confined Space Entry Program for SCULL CONSTRUCTION SERVICE, INC. contains requirements for practices and procedures to protect employees from the hazards of entry into permit-required confined spaces as required by OSHA CFR 1910.146.

The Safety Director has overall responsibility for coordinating safety and health requirements in this program.

Copies of the written program may be obtained from the Safety Director.

Hazard Evaluation for Permit Spaces

SCULL CONSTRUCTION SERVICE, INC. shall advise employees of all permit-required confined spaces in which they may have to work in and that are covered by their Permit-Required Confined Space Entry Program. This written hazard evaluation is kept in the Safety Director's office.

Preventing Unauthorized Entry

To provide a safe work environment and to prevent exposed employees from accidentally entering a permit space, the company has implemented procedures to inform all employees of SCULL CONSTRUCTION SERVICE, INC. of the existence, location, and danger posed by permit spaces in the facilities. To inform employees of the existence of a permit space, the company provides CS training to all new employees. To ensure that unauthorized employees do not enter and work in permit spaces, the company posts and monitors the area.

All entrants will be protected from external hazards, such as pedestrians and vehicles, while working in confined spaces. The proper barriers will be provided to afford this protection.

Contractors

All contractors are advised of the plant confined space procedures as appropriate and required to evaluate the confined space hazards and develop their own procedures, which must be at least as stringent as the SCULL CONSTRUCTION SERVICE, INC. Confined Space Program Procedures.

Pre-Entry Evaluation

To ensure the safety and health of our employees, before allowing authorized workers to enter a permit space, the Safety Director will evaluate conditions in that space to determine if the conditions are safe for entry. Any employee, who enters the space, or that employee's authorized representative, has the opportunity to observe the pre-entry and any subsequent testing.

The authorized entrant or that employee's representative also has the option of requesting a reevaluation of the space if they feel that the evaluation was not adequate. The evaluation shall be done according to the following considerations:

1. Lack of natural ventilation
2. Oxygen deficiency
3. Flammable/explosive atmosphere
4. Dangerous concentration of air contaminants
5. Unexpected release of hazardous energy
6. Instability of stored product
7. Physical barriers or limitations to movement
8. Limited entry and exit
9. Thermal hazards
10. Work to be performed in the confined space and its impact on the environment
11. Isolation ability for equipment in the confined space and equipment and/or material to enter the space.

The Safety Director follows the procedures to evaluate each permit space before entry according to 1910.146(c) (5) (ii) (C). This includes testing the internal atmosphere with a calibrated direct-reading instrument for oxygen content, flammable gases and vapors, and potential toxic air contaminants. We also periodically test the atmosphere of the space to ensure that the continuous ventilation is preventing the accumulation of a hazardous atmosphere. Testing and monitoring of the atmosphere will be conducted by the Safety Director.

Certification

According to 1910.146(c) (5) (ii) (H), the Safety Director verifies that the space is safe for entry and that the pre-entry measures required by 1910.146(c) (5) (ii) have been taken, through a written certification that contains the date, location of the space, and signature of the person providing the certification. The certification is made before entry and is available to each employee entering the space.

According to 1910.146(c)(5)(iii), our company documents the basis for determining that all hazards in a permit space have been eliminated, through a certification that contains the date, location of the space, and signature of the person making the determination. The Safety Director is responsible for documenting this information. The certification is available to each employee entering the space.

Equipment

To ensure the safety and health of our employees, SCULL CONSTRUCTION SERVICE, INC. provides appropriate equipment to all employees who work in or near our permit spaces. According to 1910.146(k)(3)(I), each authorized entrant will use a chest or full body harness, with a retrieval line attached at the center of the entrant's back near shoulder level, above the entrant's head, or at another point which SCULL CONSTRUCTION SERVICE, INC. can establish presents a profile small enough for the successful removal of the entrant. Wristlets may be used instead of the chest or full body harness if SCULL CONSTRUCTION SERVICE, INC. can demonstrate that the use of a chest or full body harness is infeasible or creates a greater hazard and that the use of wristlets is the safest and most effective alternative.

All equipment shall be maintained in excellent working condition and the entrants shall be trained in the correct usage of this equipment.

Duties: Authorized Entrants

Those persons who have completed the training and are authorized to enter our permit spaces are assigned specific duties and responsibilities which they must perform when they work in permit space. Their duties and responsibilities will be reviewed with the appropriate personnel.

Authorized entrants for SCULL CONSTRUCTION SERVICE, INC. are all employees trained as Authorized Entrants.

All entrants must be authorized by the entry supervisor to enter permit spaces, have received the required training, used the proper equipment, and observes the entry procedures and permit. The entrant shall be trained on the following items:

- Know the hazards that may be faced during entry, including information on the mode, signs or symptoms, and consequences of the exposure;
- Properly use the equipment required for safe entry;
- Communicate with the attendant as necessary to enable the attendant to monitor the status of the entrants and to enable the attendant to alert the entrants of the need to evacuate the space if necessary;
- Alert the attendant whenever; the entrant recognizes any warning signs or symptoms of exposure to a dangerous situation, or any prohibited condition is detected; and
- Exit the permit space as quickly as possible whenever; the attendant or entry supervisor gives an order to evacuate the permit space, the entrant recognized any warning signs or symptoms of exposure to a dangerous situation, the entrant detects a prohibited condition, or an evacuation alarm activated.

Duties: Authorized Attendants

Those persons who have completed the training and have been designated as permit space attendants are assigned specific duties and responsibilities which they must perform in permit space job duties. Attendants for SCULL CONSTRUCTION SERVICE, INC. are all **employees trained as Authorized Attendants.**

At least one attendant is required outside the permit space into which entry is authorized for the duration of the entry operation. Their responsibilities include:

- To know the hazards that may be faced during entry, including information on the mode, signs or symptoms, and consequences of the exposure
- To be aware of possible behavioral effects of hazard exposure on entrants
- To continuously maintain an accurate count of entrants in the permit space and ensure a means to accurately identify authorized entrants
- To remain outside the permit space during entry operations until relieved by another attendant (once properly relieved, they may participate in other permit space activities, including rescue if they are properly trained and equipped).
- To communicate with entrants as necessary to monitor entrant status and alert entrants of the need to evacuate.
- To monitor activities inside and outside the space to determine if it is safe for entrants to remain in the space and orders the entrants to immediately evacuate. If the attendant detects a prohibited condition, detects entrant behavioral effects of hazard exposure, detects a situation outside the space that could endanger the entrants; or if the attendant cannot effectively and safely perform all the attendant duties.
- To summon rescue and other emergency services as soon as the attendant determines the entrants need assistance to escape the permit space hazards.
- To perform non-entry rescues as specified by that rescue procedure and entry supervisor
- Not to perform duties that might interfere with the attendants' primary duty to monitor and protect the entrants.
- To take the following action when unauthorized persons approach or enter a permit space while entry is under way:
 - Warn the unauthorized persons that they must stay away from the permit space,
 - Advise unauthorized persons that they must exit immediately if they have entered the space, and
 - Inform the authorized entrants and the entry supervisor if unauthorized persons have entered the permit space.
- The attendant must monitor only **one confined space location**.

Duties: Authorized Entry Supervisors

Those persons who have completed the training and have been designated as permit space entry supervisors are assigned specific duties and responsibilities which they must perform in permit space job duties. The Authorized Entry Supervisor for SCULL CONSTRUCTION SERVICE, INC. is **the Safety Director**.

The Entry Supervisor is responsible for the overall permit space entry and must coordinate all entry procedures, tests, permits, equipment, and other relevant activities. The following Entry Supervisor's required duties are:

- Know the hazards that may be faced during entry, including information on the mode, signs or symptoms, and consequences of the exposure
- Verifies, by checking that the appropriate entries have been made on the permit, all test specified by the permit have been conducted and that all procedures and equipment specified by the permit are in place before endorsing the permit and allowing entry to begin
- Terminate the entry and cancel the permit when the entry is complete and there is a need for terminating the permit
- Verify that rescue services are available and that the means for summoning them are operable
- Remove unauthorized persons who enter or attempt to enter the space during entry operations
- Determine whenever responsibility for a permit space entry operation is transferred and at intervals dictated by the hazards and operations performed within the space that entry operations remain consistent with the permit terms that acceptable entry conditions are maintained.

Training Program

Every employee at SCULL CONSTRUCTION SERVICE, INC. who faces the risk of confined space entry is provided with training so that each designated employee acquires the understanding, knowledge, and skills necessary for the safe performance of the duties assigned to them. The Safety Director and/or outside consultants conduct our permit-required confined space training. The training shall establish the employee's proficiency in the duties required and shall introduce new or revised procedures, as necessary.

New employees shall be trained before their initial assignment of duties. When changes occur in permit-required confined space areas of our company, all affected employees shall be retrained. If we have reason to believe that an employee has deviated from a previously trained upon procedure or that their knowledge seems inadequate, we revert to our established disciplinary program.

Upon successful completion of SCULL CONSTRUCTION SERVICE, INC. permit-required confined space training program, the company shall certify that the training has been accomplished. The certification shall contain each employee's name, the signature, or initials of the trainer(s), and the dates of training. The certification is available for inspection by employees and their authorized representatives by contacting the Safety Director.

Rescue and Emergency Services

Rescue and emergency services will be coordinated with the customer. The general procedure will be as follows:

1. The attendant will notify, by radio or personal messenger, the customer operator as to the location and general conditions of the emergency. The operator will then notify the rescue service.
2. The attendant will perform the assigned duties as outlined in this program.

This service will be stated and agreed upon by the Customer in the contract language. Unauthorized personnel, those who have not been trained in rescue procedures, shall not attempt a rescue. This rescue and emergency policy shall be posted in conspicuous places.

Multiple Employer Entry Procedures

When outside employers/contractors enter our facility to perform work in permit spaces, they coordinate entry and work operations following these procedures:

All work by non-company employees that involves the entry into confined spaces will follow the procedures of this program. The information of this program and specific hazard of the confined spaces to be entered will be provided to the non-company employees prior to commencing entry or work.

Review-Procedures

To ensure that all employees participating in entry operations are protected from permit space hazards, SCULL CONSTRUCTION SERVICE, INC. shall review the Permit-Required Confined Space Entry Program on a regular basis. The written program will be reviewed if there is any unauthorized entry of a confined space; a hazard is found not covered by the permit, if there is an occurrence of an injury or near miss or if there is an employee complaint. We use the retained canceled permits from the past 12 months within one year after each entry and revise the program as necessary. SCULL CONSTRUCTION SERVICE, INC. performs a single annual review covering all entries performed during a 12-month period. If no entry is performed during a 12-month period, no review will be performed.

Enforcement

Constant awareness of and respect for permit-required confined space entry hazards, and compliance with all safety rules are considered conditions of employment. The Safety Director reserves the right to issue disciplinary warnings to employees, up to and including termination, for failure to follow the guidelines of this permit entry program. This will be done in accordance with SCULL CONSTRUCTION SERVICE, INC.'s Disciplinary Program.

SCULL CONSTRUCTION SERVICE, INC.

Disciplinary Program

Implementation

Management and Supervisory personnel are responsible for the instruction of all employees under their jurisdiction for proper and safe work methods in performing work duties. Supervisors shall take immediate corrective action to eliminate hazardous conditions and practices to prevent accidents, personal injury, or property damage. The Manager, Safety Director, as well as all other supervisors and subcontractors will be responsible for **commitment to safety goals** and shall vigorously enforce the established safety program at all times and will not permit safety in the work place to be sacrificed for any reason.

All employees of SCULL CONSTRUCTION SERVICE, INC. are required to comply with all published company health and safety policies.

Physical inspections of company officials that indicate violations showing overall lack of commitment to company goals shall be under the same level of disciplinary actions.

The following Disciplinary Action steps will be taken **by the Project Manager, Safety Director, Superintendent, or Owner** when there is a violation of any of the established safety rules. Such violations include:

- Not following verbal or written safety procedures, guidelines, and/or rules.
- Horseplay
- Failure to wear the proper personal protective equipment, etc.

Workers:

After the first violation, Supervisor shall meet with the involved employee to discuss the infraction and inform him/her of the rule that was violated and the corrective action to be taken. They will receive education/training as required to prevent the problem from reoccurring.

After the second violation, a written warning will be given to the employee. The written warning will include the next steps if other violations occur and the written warning shall be documented by the affected employee and entered in the employee's file.

After the third violation, the affected employee may be given time off without pay and/or dismissed.

After multiple serious violations, employees will get two days off without pay and or dismissed

Supervisors

After the first violation, the employee's supervisor shall meet with the involved employee to discuss the infraction and inform him/her of the rule that was violated and the corrective action to be taken. They will receive education/training as required to prevent the problem from reoccurring.

After the second violation, a written warning will be given the employee. The written warning will include the next steps if other violations occur and the written warning shall be documented by the affected employee and entered in the employee's file.

After the third violation, the affected employee may be given time off without pay and/or dismissed.

Sub-Contractors

The following steps will be followed for any subcontractor that violated safety procedures.

The **FIRST** safety violation by Subcontractor's employees observed by the GC Project Manager, Safety Director, Superintendent, or Field Coordinator will result in a written violation being assessed to the subcontractor and publically documented on the job-site.

The **SECOND** safety violation by any of the Subcontractor's employees will result in the GC issuing a written violation and "stop work" until the violation is fixed or resolved. The Subcontractor will be issued a \$500.00 penalty. The Subcontractor will be invoiced for the penalty and will have 10 days from the invoice date to pay the penalty. If the penalty is not paid within 10 days, the Subcontractor will not be paid at their next pay request, or until the penalty has been paid.

A **THIRD** safety violation by Subcontractor's employees will result in the GC issuing a written violation and possible removal from the jobsite for failure to comply with safety procedures. Subcontractor will be issued a \$1,000 penalty. Subcontractor will be invoiced for the penalty, and will have 10 days from the invoice date to pay the penalty. If the penalty is not paid within 10 days, the Subcontractor will not be paid at their next pay request, or until the penalty has been paid.

FOUR or more violations will result in a \$1,000 penalty per violation and/or dismissal from the jobsite. If the penalty is not paid within 10 days, the Subcontractor will not be paid at their next pay request, or until the penalty has been paid.

SCULL CONSTRUCTION SERVICE, INC.

Subcontractor Safety Responsibilities

The following is a list of responsibilities to be followed by all subcontractors working on this specific jobsite.

All local, state and federal regulations (29 CFR Part 1926) concerning safety shall be complied with.

The following safety practices established by the WRGCA as well as all practices and policies addressed in the GC Safety Manual shall be complied with, without reservation. A copy of the GC Safety Manual will be distributed to all Subcontractors; if additional copies are needed, they are available through the GC Office.

1. Housekeeping shall be maintained at all times. All subcontractors are responsible for their clean up daily. The disposal of all trash is a responsibility of the subcontractor.
2. Storage area, aisles, and walkways shall be kept clean. Materials shall be neatly piled and stacked.
3. Electrical cords, leads, hoses, etc. should be placed to avoid tripping hazards or prevent damage.
4. Scrap lumber, waste material and rubbish shall be removed from the immediate work area as work progresses.
5. Refuse piles must be removed as soon as possible.
6. Spills must be cleaned up immediately. Spills which contain hazardous materials shall be contained. Notify your supervisor and GC immediately of a hazardous spill.
7. Covers are required on containers used for flammable or harmful substances.
8. At the end of each portion of work, return all tools and excess material to proper storage. Clean up all debris before moving onto next phase.
9. Hard hats are required to be worn 100% of the time without exception.
10. Safety glasses and high visibility clothing will be worn 100% of the time without exception.
11. Proper work clothing shall be worn at all times. The minimum requirement is a T-shirt with sleeves, long pants, and sturdy leatherwork boots.

12. Safety harnesses and proper fall arrest equipment must be utilized when there is an exposure to a fall and no other fall protection is available. Any heights 6' and over require some type of fall protection in place.
13. When a subcontractor creates a hazard such as a floor opening, wall opening, or an unsafe stairway, such Subcontractor shall provide acceptable, protective railing(s), guardrail(s), temporary tread(s), hole cover(s), or other protection which meets OSHA and other safety rules and regulations. If a Subcontractor is given permission to remove any perimeter protection installed by GC or another Subcontractor, the Subcontractor removing the said protection must replace it in the condition found before removal.
14. All erected scaffold and scaffold planking must comply with OSHA regulation 29 CFR Part 1926, Subpart L.
15. Protruding nails in lumber, dismantled forms, scaffolding, etc. must be pulled or bent over as soon as they are exposed.
16. All electrical equipment, electrical cords, and power tools must be properly grounded or double insulated. Flat cords or frayed or damaged cords will not be allowed on-site. All OSHA requirements will be met for ground-faults protection. Employers shall either use ground-fault circuit interrupters or establish and implement an assured equipment grounding program. (OSHA 29 CFT Part 1926, Subpart K)
17. All guards on power equipment, machinery, and tools must be kept in good working order, and must be in place whenever such equipment is being operated.
18. Workmen shall not remove safety guards except for repairing or servicing. The equipment shall be properly disconnected from its power source or locked out before such operations are performed.
19. Employers shall provide hearing protection, whenever an employee is placed in an environment requiring such protection.
20. **ALL ACCIDENTS** are to be reported to the **GC IMMEDIATELY**.
21. All employers' Hazard Communication Programs will be made available at the jobsite.
22. No food or drink allowed within the perimeter of the building when posted by the GC.
23. No tobacco products within perimeter of buildings/site when posted by GC.
24. All trenching and excavation activities must comply with OSHA Regulation 29 CFR Part 1926 Subpart P.
25. Subcontractors will furnish GC with name and immediate contact number of their Competent Person prior to beginning work and will have a Competent Person on-site at

all times during work activity. This individual shall have the authority to discipline and stop work and correct unsafe conditions.

- Anyone caught using drugs or alcohol on site will be removed from the site. The foreman on site will be notified about the incident

SCULL CONSTRUCTION SERVICE, INC.

Electrical Safety Program (Non-Qualified)

General Company Policy

This program applies to all work operations where SCULL CONSTRUCTION SERVICE, INC. employees may be exposed to live electrical parts and/or those parts, which have been de-energized.

The Safety Director has the overall responsibility for the Electrical Safety Program and all SCULL CONSTRUCTION SERVICE, INC. employees shall follow this program. Copies of the program may be obtained from the Safety Director

Hazard Analysis Report

The Safety Director will conduct a hazard analysis of the workplace. This analysis will provide us with information identifying which departments have equipment using electricity, various types of wiring installations, and the types of employee functions that must be covered by the Electrical Safety Program. The departments/areas of the company identified as having electrically operated equipment and/or wiring installations are reviewed for each project.

Electrically operated equipment, which must be deenergized before work can be done on it.

Employees of our company who are qualified to work on, near, or with energized electric circuits and equipment are trained in electrical systems.

Training Program

Every employee at SCULL CONSTRUCTION SERVICE, INC. who faces the risk of electric shock from working on or near energized or de-energized electrical sources receives training by the Safety Director in electrical related safety work practices pertaining to the individual's job assignment.

The goal of the SCULL CONSTRUCTION SERVICE, INC. electrical safety-training program is to ensure that all employees understand the hazards associated with electric energy and that they are capable of performing the necessary steps to protect themselves and their co-workers.

The SCULL CONSTRUCTION SERVICE, INC. electrical training program covers these basic elements:

- Lockout and tagging of conductors and parts of electrical equipment.
- Safe procedures for deenergizing circuits and equipment.
- Application of locks and tags.

- Verification that the equipment has been deenergized.
- Procedures for reenergizing the circuits or equipment.
- Other electrically related information which is necessary for employee safety.

Working on or near exposed energized parts

Overhead Lines

In SCULL CONSTRUCTION SERVICE, INC., all the persons working on or near energized or deenergized electric sources are considered “qualified” to work safely with electrical energy and have received the appropriate training and certification to do so. In addition to the basic training elements, our “qualified” employees are trained in the skills and techniques necessary to identify exposed live parts, determine nominal voltages, and clearance distances and corresponding voltages.

If work is to be performed near overhead lines, the lines shall be deenergized and grounded, or other protective measures shall be provided before work is started.

When a **qualified or unqualified person** is working in an elevated position near overhead lines, the location shall be such that the person and the longest conductive object he or she may contact cannot come closer to any unguarded, energized line than the following distances.

- (1) For voltages to ground 50kv or below – 10 feet;
- (2) For voltages to ground over 50kv – 10 feet plus 4 inches for every 10kv over 50kv.

When a **qualified or unqualified person** is working on the ground in the vicinity of overhead lines, the person may not bring any conductive object closer to unguarded, energized lines than the distances stated above.

Vehicular and mechanical equipment

Any vehicle or mechanical equipment capable of having parts of its structure elevated near energized overhead lines shall be operated so that a clearance of 10 feet is maintained. If the voltage is higher than 50kv, the clearance shall be increased 4 in. for every 10kv over that voltage. Under no circumstances, shall the clearance be less than listed above.

Employees standing on the ground may not contact the vehicle or mechanical equipment or any of its attachments while such equipment is working under overhead lines unless they use protective equipment rated for the voltage or the above clearances are maintained.

If any vehicle or mechanical equipment capable of having parts of its structure elevated near energized overhead lines is intentionally grounded, employees working on the ground near the point of grounding may not stand at the grounding location whenever there is a possibility of overhead line contact. Additional precautions, such as the use of barricades or insulation, shall be taken to protect employees from hazardous ground potentials, depending on earth resistivity and fault currents, which can develop within the first few feet or more outward from the grounding point.

Illumination

Employees may not enter spaces containing exposed energized parts, unless illumination is provided that enables the employees to perform the work safely.

Where lack of illumination or an obstruction precludes observation of the work to be performed, employees may not perform tasks near exposed energized parts. Employees may not reach blindly into areas which may contain energized parts.

Confined or enclosed work spaces

When an employee works in a confined or enclosed space (such as a manhole or vault) that contains exposed energized parts, SCULL CONSTRUCTION SERVICE, INC. will provide, and the employee shall use, protective shields, protective barriers, or insulating materials as necessary to avoid inadvertent contact with those parts. Doors, hinged panels, and the like shall be secured to prevent their swinging into an employee and causing the employee to contact exposed energized parts.

Conductive materials and equipment

Conductive materials and equipment that are in contact with any part of an employee's body shall be handled in a manner that will prevent them from contacting exposed energized conductors or circuit parts. If an employee must handle long dimensional conductive objects (such as ducts and pipes) in areas with exposed live parts, SCULL CONSTRUCTION SERVICE, INC. will institute work practices (such as the use of insulation, guarding, and material handling techniques) which will minimize the hazard.

Portable ladders

Portable ladders shall have nonconductive siderails if they are used where the employee or the ladder could contact exposed energized parts.

Conductive apparel

Conductive articles of jewelry and clothing (such as watch bands, bracelets, rings, key chains, necklaces, metalized aprons, cloth with conductive thread, or metal headgear) may not be worn if they might contact exposed energized parts.

The procedures we follow when training new employees who will be working on or near electrical equipment or circuitry are covered in the SCULL CONSTRUCTION SERVICE, INC. orientation program. When changes occur in our company that involves electrical elements, we provide additional employee training to ensure the safety of all affected workers.

The SCULL CONSTRUCTION SERVICE, INC. Safety Director oversees or conducts the electrical safety training for all employees. A record of the training will include who was trained, the dates of training, and the signature of the person conducting the training

Lockout and Tagging Program

Policy that circuits and equipment must be disconnected from all electric energy sources before work on them begins the SCULL CONSTRUCTION SERVICE, INC. Lockout and tagging devices are used to prevent the accidental reenergization of this equipment. These lockout and tagging procedures are the main component of our electrical safety program as found in the SCULL CONSTRUCTION SERVICE, INC. . Lockout/Tagout program.

Equipment Grounding Conductor Program

This written plan is intended to establish and implement specific procedures for the equipment grounding conductor program covering:

- All cord sets, receptacles which are not a part of the building or structure, and equipment connected by cord and plug which are available for use or used by employees.

This part of the written plan complies with the requirements of 1926.404(b) (1) (iii).

Equipment Grounding Conductor Inspection

Each cord set, attachment cap, plug, and receptacle of cord sets, and any equipment connected by cord and plug, except cord sets and receptacles which are fixed and not exposed to damage, are visually inspected before each day's use for:

- External defects, such as deformed or missing pins, insulation damage, and indications of possible internal damage.

Equipment found damaged or defective shall be removed from service and not to be used until repaired.

Equipment Grounding Conductor Testing

The following tests are performed on all cord sets, receptacles which are not a part of the permanent wiring of the building structure, and cord-and plug-connected equipment required to be grounded:

- All equipment-grounding conductors are tested for continuity and are electrically continuous.
- Each receptacle and attachment cap or plug is tested for correct attachment of the equipment-grounding conductor.
- The equipment-grounding conductor is connected to its proper terminal.

All required tests are performed:

- Before first use.
- Before equipment is returned to service following any repairs.
- Before equipment is used after any incident, which can be reasonable suspected to have caused damage (for example, when a cord set is run over).

- At intervals not to exceed 3 months, except that cord sets and receptacles which are fixed and not exposed to damage will be tested at intervals not exceeding 6 months.

Recordkeeping

Tests performed as required in this program are recorded. The test records:

- Identify each receptacle, cord set, and cord-and plug-connected equipment that passed the test, and indicate the last date it was tested or the interval for which it was tested.
- The Safety Director is responsible for maintaining these records.
- The record is made available on the job site for inspection by OSHA and any affected employee.

Lockout and Tagging of Circuits is found in the Lockout/Tagout section of this plan.

Training

Training is provided to ensure that all employees are familiar with the requirements of this plan. The Safety Director is responsible for training.

The training program addresses the required written elements for electrical safety for-

- The assured equipment-grounding conductor program.
- Lockout and tagging procedures to be used when working on exposed de-energized parts.

Program Evaluation

The Electrical Safety Plan is evaluated and updated annually by the Safety Director to ensure the continued effectiveness of the program.

Scull Construction Service, Inc.

Steel Erection Policy

Policy

Scull Construction Service, Inc. is dedicated to the safety of its employees. The erection of steel and the activities that go on around the process are extremely hazardous and require everyone to work together safely. All employees involved shall follow all safety requirements and wear all required safety equipment while working on site.

Responsibilities

A. Safety Director

The Safety Director or designee will be responsible for the training of all affected employees. Other responsibilities will include the final approval of the site-specific steel erection plan, inspection of the job site for plan compliance, and technical advisor to field management.

B. Superintendent

The Superintendent is responsible for ensuring that all safety plans and devices are in place prior to the start of steel erection activities. Other responsibilities include preliminary approval of the site-specific safety plan, conducting the pre-erection safety meeting/conference, monitoring compliance with the safety plan, and taking corrective actions when needed.

C. Competent Person

The competent person along with the controlling contractor will ensure that the site-specific safety plan addresses all necessary safety needs, that the plan is followed, and that all equipment meets required specifications for the intended application. The competent person shall ensure all safety systems are used when required, systems and equipment are inspected as required, and shall ensure that all workers are engaged in safe work activities.

Purpose

The purpose of the policy is to prevent injury to SCULL CONSTRUCTION SERVICE, INC. employees caused by the erection of steel and the activities that go along with steel erection. The safe and correct implementation and use of the program will help ensure SCULL CONSTRUCTION SERVICE, INC. compliance with the Occupational Safety and Health Administration's (OSHA's) Subpart R Steel Erection.

The following parts are an overview of the steel erection requirements, please note you should refer to the proper OSHA standard for detailed requirement of this topic (29CFR 1926. 750/762).

- 1) Site Lay Out Overview
 - Clearly knows the duties and responsibilities of the controlling contractor.
 - Assure all proper written notifications are on site (i.e. ASTM standard test methods for concrete).
 - Assure all requirements for adequate access roads to and from the site
 - Site specific erection plan is completed (see attachment).
- 2) Hoisting and Rigging
 - Assure that the pre planning of overhead hoisting has been performed.
 - Assure all hoisting and rigging safety requirements are being met and maintained (pre-shift inspections record are available and corrective action taken needed).
 - Assure that all safety requirements have been met for working under loads; routes for suspended loads have been pre-planned.
- 3) Structural Steel Assembly
 - Assure structural assembly is maintained at all times during the erection process.
 - Permanent floors shall be installed as the erection process progresses, (no more than 8 stories between the erection floor and the upper most permanent floor).
 - At no time shall there be more than 4 floor of 48 feet (whichever is less) of unfinished bolting or welding above the foundation or uppermost permanently secured floor.
 - Walking/working surfaces, assure that tripping hazards are addressed.
 - Plumbing- up, the competent person shall determine if plumbing-up equipment shall be installed in conjunction with steel erection process.
 - Metal decking, assure proper hoisting, landing and placing of metal decking.
 - Assure all bundles are secured and placed properly over supports.
- 4) Column Anchorage
 - All columns shall be anchored by a minimum of 4 anchor bolts, unless final design drawings indicate less.
 - Columns shall be set on level finished floors, or leveling nuts/shims.
 - All columns shall be evaluated by the competent person to determine if guying or bracing is needed.
- 5) Beams and Columns
 - Do not release members from the hoisting lines until at least 2 bolts per connection are wrench tight
 - The competent person shall determine if more than 2 bolts are needed to ensure stability.
 - Diagonal bracing shall be secured by at least 1 bolt per column, wrench tight.
- 6) Open Web Steel Joist
 - Vertical stabilizer plates shall be provided for each column of steel joints
 - Stabilize the bottom chords of steel joists to prevent rotation during erection.

- Hoisting cables shall not be released until the seat at each end of the steel joist is field bolted and each end of the bottom chord is restrained by the column stabilizer plate.
- During placement of loads the employer placing the load on the steel joist shall ensure that the load is properly distributed.
- When installing joist please refer to manufacturers written instructions for erection short and long span joists.

7) System – Engineered Metal Buildings

- Assure structural column shall be anchored by a minimum of 4 bolts.
- Assure rigid frames shall have at least 50% of their bolts installed.
- Do not place construction loads on any structural steel framework unless it is safely bolted.
- Erection of bays shall start at the bracing bay if applicable.
- Plumbing- up, the competent person shall determine if plumbing- up equipment shall be installed in conjunction with steel erection process.

8) Falling Object Protection

- Assure all materials, equipment and tools are secured.
- Assure that the controlling contractor has barred all other construction processes from occurring when hazards may be present overhead, unless overhead protection has been provided.

9) Fall Protection

- Protect employees for fall hazards in steel erection activity when they are exposed to fall hazards of 6 feet or more by means of guardrails, safety net systems, personal fall arrest systems, positioning device systems or fall restraints.
- Connectors shall be protected from fall hazard at heights of 6 feet or more
- Controlled Decking Zone (CDZ) can be established in areas of the structure over 15 feet and up to 30 feet above lower level where metal decking is initially installed. Controlled decking zones must be approved by the safety director and inspected daily by a competent person.

10) Training

Training must address the following:

- The recognition and identification of fall hazards.
- The use and operation of fall protection systems, guardrails, and personal fall protection equipment.
- The training and authorization of operators for all required equipment.
- Assure the proper level of additional training is provided for CDZ activity and it is specific to the site where it is being used.

Site Specific Steel Erection Plan and Checklist

Job Name: _____

Job Number: _____

Date: _____

Erector: _____

Project Eng.: _____

Sheeter: _____

Qualified Person: _____

Anchor Bolt Cont.: _____

Fabricator: _____

Crane Optr: _____

Qualified Rigger: _____

Scope of Work

Pre-Engineered Metal Building	☐	Sq. Ft.	_____	Tons	_____
Conventional Steel Building	☐	Sq. Ft.	_____	Tons	_____
Roofing	☐	Sq. Ft.	_____	Tons	_____
Siding	☐	Sq. Ft.	_____	Tons	_____
Decking	☐	Sq. Ft.	_____	Tons	_____
Miscellaneous Steel	☐	Sq. Ft.	_____	Tons	_____
General Miscellaneous	☐	Sq. Ft.	_____	Tons	_____
General Description of Work: _____					

Footings, Piers, Walls and Anchor Bolts

1. Has concrete reached 75% of sufficient strength?
2. Proof of Strength
 - a. ASTM test method results
 - b. Engineer verification
3. Were anchor bolts repaired, replaced, or modified?
4. Was erector notified in writing?

☐	Yes	☐	No
☐	Yes	☐	No
☐	Yes	☐	No
☐	Yes	☐	No

Notification of Commencement of Steel Erection

1. Was written notification given to the erector?

☐	Yes	☐	No
--------------------------	-----	--------------------------	----

Site Layout

1. Has controlling contractor provided adequate access to site?
2. Is laydown area firm, properly graded, well drained and accessible?

☐	Yes	☐	No
☐	Yes	☐	No

Pre-Construction Site Conference

Has a Pre-construction Site Conference been held?

☐ Yes ☐ No

Please list those attending:

Sequence of Erection Activity

1. Give a general sequence of erection activities:

2. Material delivery date: _____

3. How will activities be coordinated with other trades? _____

Cranes

1. Crane Type: _____

2. Crane Brand: _____

3. Crane Capacity: _____

4. How is the site prepared for the crane? _____

5. How many different locations will the crane have and where are they? _____

6. What is the path of overhead loads? _____

7. How will employees be notified of overhead loads? _____

8. Are there any critical lifts? (75% of capacity or dual crane)

a. How many? _____

9. Describe critical lifts: _____

10. Are lift permits attached for critical lifts?

☐ Yes ☐ No

11. Are lift permits attached for all lifts over 5,000 lbs?

☐ Yes

☐ No

Steel Erection Activities/Procedures (give a description of the following items and how they will be performed)

1. Temporary Bracing/Guying _____

2. Repair, Replacement or Modification of Anchor Bolts:

3. Columns/Beams (Joists or Purlins): _____

4. Connections: _____

5. Decking: _____

6. Roofing: _____

7. Siding: _____

8. Steel Grating: _____

9. Handrail or Miscellaneous Iron: _____

Fall Protection (Please identify the Fall Protection procedures for the following tasks):

1. Erection of vertical structural members

- ☐ JLG Lift/Tie-off
- ☐ Scissor Lift/Guardrails
- ☐ Vertical Lifeline/Harness and Lanyard
- ☐ Retractable Lanyard/Harness
- ☐ Other - Explain _____

2. Erection of horizontal structural members

- ☐ JLG Lift/Tie-off
- ☐ Scissor Lift/Guardrails
- ☐ Vertical Lifeline/Harness and Lanyard
- ☐ Retractable Lanyard/Harness

	☐	Other - Explain _____
3. Installation of Siding & Associated Insulation	☐ ☐ ☐ ☐ ☐	JLG Lift/Tie-off Scissor Lift/Guardrails Vertical Lifeline/Harness and Lanyard Retractable Lanyard/Harness Other - Explain _____
4. Installation of Roofing & Associated Insulation	☐ ☐ ☐ ☐ ☐	JLG Lift/Tie-off Scissor Lift/Guardrails Vertical Lifeline/Harness and Lanyard Retractable Lanyard/Harness Other – Explain _____
5. Installation of Decking	☐ ☐ ☐ ☐ ☐	JLG Lift/Tie-off Scissor Lift/Guardrails Vertical Lifeline/Harness and Lanyard Retractable Lanyard/Harness Other – Explain _____
6. Unprotected Sides/Edges	☐ ☐ ☐ ☐ ☐	JLG Lift/Tie-off Scissor Lift/Guardrails Vertical Lifeline/Harness and Lanyard Retractable Lanyard/Harness Other – Explain _____
7. Leading Edges	☐ ☐ ☐ ☐ ☐	JLG Lift/Tie-off Scissor Lift/Guardrails Vertical Lifeline/Harness and Lanyard Retractable Lanyard/Harness Other – Explain _____
8. Holes	☐ ☐ ☐ ☐ ☐	JLG Lift/Tie-off Scissor Lift/Guardrails Vertical Lifeline/Harness and Lanyard Retractable Lanyard/Harness Other - Explain _____
9. Wall Openings	☐ ☐ ☐ ☐ ☐	JLG Lift/Tie-off Scissor Lift/Guardrails Vertical Lifeline/Harness and Lanyard Retractable Lanyard/Harness Other – Explain _____
10. Has fall protection training been documented?	☐ Yes ☐ No	

11. Is a competent person on-site at all times? ☐ Yes ☐ No
 12. Were fall protection systems designed by a Qualified Person? ☐ Yes ☐ No

Falling Object Protection

1. Method for securing loose items aloft: _____

2. Are all personnel wearing hardhats? ☐ Yes ☐ No
 3. Are erection areas properly barricaded? ☐ Yes ☐ No

Hazardous Non – Routine Tasks

1. Are Job Safety Analyses performed on all non – routine hazardous tasks? ☐ Yes ☐ No
 2. Attach JSA's

Training Certification

1. Are all personnel properly trained for performing steel erection activities? ☐ Yes ☐ No
 2. Are all personnel properly trained for the use of fall protection systems? ☐ Yes ☐ No
 3. Attach all documentation of training.

List of Qualified and Competent Persons

1. Qualified Person for site specific erection plan: _____
 2. Qualified Person for fall protection system design: _____
 3. Qualified Rigger: _____
 4. Crane Operator: _____
 5. Crane Inspector: _____
 6. Fall Protection Competent Person: _____

Emergency Rescue Procedures

- | | | |
|--|--|------------------------------------|
| ☐ Self – Rescue | ☐ Emergency Response Team | ☐ Manbasket |
| ☐ Stair Tower | ☐ 1 st Aid Trained Personnel | ☐ Hoists |
| ☐ Aerial Lifts | ☐ Other | |

Comments: _____

Completed By: _____ Date: _____
 Reviewed By: _____ Date: _____

SCULL CONSTRUCTION SERVICE, INC. .

Fall Protection Program

I. INTRODUCTION

SCOPE:

This policy applies to all SCULL CONSTRUCTION SERVICE, INC. employees working on any job site and who may be exposed to fall hazards in the course of their daily activities.

PURPOSE:

To prevent work related injuries resulting from falls from elevations. The prevention of these incidents will be accomplished by the use of fall prevention, fall protection methods, and the training of effected employees.

II. SAFETY GOALS AND OBJECTIVES

a. SCULL CONSTRUCTION SERVICE, INC. . Management

The goal of management is to reduce and eliminate the occurrences of falls from elevation on the job site. Through the evaluation of related incidents, management will modify the fall protection measures until these incidents are eliminated. Fall protection programs shall be prepared and modified by a qualified person for the **specific work-site**. Qualified person means “one who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training, and experience, has successfully demonstrated his/her ability to solve or resolve problems relating to the subject matter, the work, or the project.” **The Qualified person(s) for SCULL CONSTRUCTION SERVICE, INC. is the Safety Director, Project Manager, or Superintendent.**

b. SCULL CONSTRUCTION SERVICE, INC. . Safety Director

The goal will be to ensure compliance with the fall protection program through hazard identification, hazard mitigation, employee training, and enforcement of the fall protection program. **The Safety Director, Project Manager, or Superintendent** will also serve as the “Competent person” for the fall protection program. “Competent person” means one who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has the authorization to take prompt corrective measures to eliminate them.”

c. SCULL CONSTRUCTION SERVICE, INC. . Employees

The goals for the employees are:

1. Employees will be able to identify the fall hazards on the job site.
2. Employees will be able to understand the hazards associated with working near fall hazards.
3. Employees will understand the OSHA regulations relating to fall protection.

III. RESPONSIBILITIES

a. Safety Director

The Safety Director or designee will be responsible for the training of all affected employees. Other responsibilities will include inspection of job sites for fall hazards, technical advisor to field management, and reporting of safety status to Management.

b. Workforce Employees

Workforce Employees are required to report any fall hazards to the Safety Director, Project Manager, or Superintendent, follow all fall prevention and protection requirements in this program, and be responsible for all daily inspections on all personal fall arrest equipment before use.

IV. HAZARD IDENTIFICATION AND ELIMINATION

a. Daily Inspections

Job sites will be inspected daily by the Safety Director or designee. In the daily inspection, focus will be placed on the following:

1. Any area or activity that exposes an employee to a fall hazard.
2. Fall hazards associated with the following areas:
 - a). scaffolds
 - b). ladders
 - c). scissor lifts
 - d). aerial work platforms
 - e). floor holes
 - f). roofs
 - g). unprotected sides and edges

b. Analyzing the Work Area

In analyzing the work area, the Safety Director or designee will review work conditions for current and upcoming fall hazards. This will be accomplished by inspection of the current and upcoming work areas.

c. Pre-Planning for Fall Prevention

SCULL CONSTRUCTION SERVICE, INC. . will pre-plan prevention by completing the following tasks:

1. Have a competent person specify what fall protection method will be used.
2. Have a competent person specify the proper anchorage points to be used.
Anchorage points shall be capable of supporting at least 5,000 pounds per employee attached.
3. All scaffolds system will have guardrails attached.
4. All open-sided floors will have guardrails attached before employees engage in work on this level.
5. All floor holes shall have covers. A floor hole is “a floor hole on the working surface that is greater than 3 inches in diameter.”

V. CONVENTIONAL FALL PROTECTION

a. Guardrails

All Personal Fall Arrest Systems purchased shall meet the requirements of ANSI A10.14-1975
All guardrail systems will comply with the current OSHA standards. (1926.502(b))

b. Personal Fall Arrest Systems

All SCULL CONSTRUCTION SERVICE, INC. . employees required to wear personal fall arrest systems, will follow these guidelines.

1. Only a full body harness is allowed for fall arrest.
2. Only shock absorbing and self-retracting lanyards are acceptable.
3. All lanyards will have locking snap hooks.
4. All personal fall arrest systems will be inspected before each use by the employee.

All SCULL CONSTRUCTION SERVICE, INC. . employees will be required to use personal fall arrest systems where there is danger of falling. Personal fall arrest systems will be required under the following conditions:

1. When work from an aerial work platform.
2. When working above six feet on a platform or other support not equipped with adequate guardrails.
3. When working in an aerial basket suspended from a crane.
4. When working in a confined space where personnel may have to be lowered or raised vertically, a body harness with a Y-lanyard is required. This includes silos or hoppers where the danger of being buried by loose material exists.
5. When working near an unguarded floor opening or on roofs, a lifeline fall arrest system is often desirable for mobility.

IV. INSPECTION AND MAINTENANCE OF ALL PROTECTION SYSTEMS

a. Guardrails

1. All guardrails will be visually inspected daily by the Safety Director or designee.

b. Personal fall arrest systems.

1. Personal fall arrest systems shall be inspected daily by the employee before use.
2. Personnel fall arrest systems shall be inspected by the Safety Director or designee periodically to ensure inspections are being performed properly by the employees.

VII. SAFETY MONITORING SYSTEM

When conventional fall protection is not feasible, a safety monitoring system may be used. “Not feasible” means, “that it is impossible to perform the construction work using a conventional fall protection system (i.e., guardrail system, safety net system, or personal fall arrest system) or that it is technologically impossible to use any one of these systems to provide fall protection.

- a. SCULL CONSTRUCTION SERVICE, INC. has designated the **Safety Director, Project Manager, or Superintendent as the competent person** to monitor the safety of other employees and the company shall ensure that the safety monitor complies with the following requirements:
 1. The safety monitor shall be competent to recognize fall hazards.
 2. The safety monitor shall warn the employee when it appears that the employee is unaware of a fall hazard or is acting in an unsafe manner.
 3. The safety monitor shall be on the same walking/working surface and within visual sighting distance of the employee being monitored.
 4. The safety monitor shall be close enough to communicate orally with the employee.
 5. The safety monitor shall not have other responsibilities which could take the monitor’s attention from the monitoring function.

VIII. CONTROLLED ACCESS ZONES

When conventional fall protection is not feasible, a controlled access zone may be used. “Not feasible” means, “that it is impossible to perform the construction work using a conventional fall protection system (i.e., guardrail system, safety net system, or personal fall arrest system) or that it is technologically impossible to use any one of these systems to provide fall protection.”

Controlled access zones are not recommended for use by SCULL CONSTRUCTION SERVICE, INC. .

If the controlled access zones are necessary, they shall conform to the following provisions:

1. When used to control access to areas where leading edge and other operations are taking place, the controlled access zone shall be defined by a control line or by other means to restrict access.

2. When control lines are used, they shall be erected not less than 6 feet nor more than 25 feet from the unprotected or leading edge, except when erecting pre-cast concrete members.
3. The control line shall extend along the entire length of the unprotected or leading edge and shall be approximately parallel to the unprotected edge.
4. The control line shall be connected on each side to a guardrail system or wall.
5. Control lines shall consist of ropes, wires, tapes, or equivalent materials, and supporting stanchions as follows:
6. Each line shall be flagged or otherwise clearly marked at not more than 6-foot intervals with high-visibility material (example yellow caution line).
7. Each line shall be rigged and supported in such a way that its lowest point is not less than 39 inches from the walking/working surface and its highest point is not more than 45 inches from the walking/working surface.
8. Each line shall have a minimum breaking strength of 200 pounds.

X. TRAINING

The Safety Director, Project Manager, or Superintendent will be adequately trained in the fall protection systems in use and will be responsible for training all field employees during new employee orientation. In the event a new system is employed, additional training will commence immediately to all effected employees.

a. Training Outline

1. Review of OSHA standard 1926.501
2. Training video
3. Review of fall protection system and their use.
4. Discussion and questions.
5. Training test.

b. Documentation

All employees trained in fall protection will be documented in the following manner:

1. The date of the training.
2. The employees printed name and signature.
3. The printed name and signature of the instructor.
4. The specific subjects covered in the training session.
5. Records will be retained in the SCULL CONSTRUCTION SERVICE, INC. . office for review of applicable federal, state, and local agencies.

c. Retraining

Retraining will take place when one of the following exists:

1. When an effected employee who has been trained does not have the understanding and skill to recognize the hazards associated with fall from elevations and the procedures to be followed to minimize these hazards.
2. Changes in the workplace render previous training obsolete.
3. Inadequacies in effected employee's knowledge or use of fall protection systems or equipment indicate that the employee has not retained the requisite understanding or skill.

XI. PROGRAM EVALUATION

SCULL CONSTRUCTION SERVICE, INC. will strive to improve the performance of the fall protection program to benefit our employees. The criteria used to evaluate the program's performance will be the following:

1. Accident/incident reports: After any accident/incident, involving fall protection the program will be revised to prevent any future similar accidents/incidents.
2. Medical reports.
3. Incident rates.
4. Employee compliance.
5. Industry comparison.

SCULL CONSTRUCTION SERVICE, INC. .

Fire Protection Plan

Scope and Application

The requirements of this section apply to the placement, use, maintenance, and testing of portable fire extinguishers provided for the use of employees.

General Requirements

SCULL CONSTRUCTION SERVICE, INC.:

- Shall provide portable fire extinguishers and shall mount, locate and identify them so that they are readily accessible to employees without subjecting the employees to possible injury.
- Will provide only approved portable fire extinguishers.
- Shall not provide or make available in the workplace portable fire extinguishers using carbon tetrachloride or chlorobromomethane extinguishing agents.
- Shall assure that portable fire extinguishers are maintained in a fully charged and operable condition and kept in their designated places at all times except during use.

Inspection, Maintenance, and Testing

SCULL CONSTRUCTION SERVICE, INC.:

- Shall be responsible for the inspection, maintenance, and testing of all portable fire extinguishers in the workplace.
- Shall assure that portable fire extinguishers are subjected to an **annual maintenance check**. The date of this annual check shall be recorded and the record shall be retained for one year after the last entry or the life of the shell, whichever is less. This record shall be made available to the OSHA Assistant Secretary upon request.
- Shall visually inspect all portable fire extinguishers on a monthly basis.

Training and Education

SCULL CONSTRUCTION SERVICE, INC. shall provide an educational program to familiarize employees with the general principles of fire extinguisher use and the hazards involved with incipient stage fire fighting.

This required education shall be provided by the Safety Director upon initial employment and at least annually thereafter.

SCULL CONSTRUCTION SERVICE, INC.

First Aid/CPR

SCULL CONSTRUCTION SERVICE, INC. will provide and make easily accessible, approved first-aid supplies. The first aid kit shall consist of appropriate items and stored in a weatherproof container with individually sealed packages for each type of item. First-aid kit contents will be checked prior to issuance and on a weekly basis thereafter by the SCULL CONSTRUCTION SERVICE, INC. Safety, Director or his/her designee and expended items replaced. An inspection checklist should be included in each first aid kit. Dependent on the type and size of operations, the company must determine the need for additional first aid kits at the work site, additional types of first aid equipment and supplies and additional quantities and types of supplies and equipment in the first aid kits. **Our company's first aid cabinet items are found following this section.**

1. In the absence of an infirmary, clinic, hospital, or physician that is reasonably accessible in terms of time and distance to the work site, designated employees having a valid certificate in first aid training shall be available at the work sites to render emergency first aid and CPR.
2. Where the eyes or body of any person may be exposed to injurious or corrosive materials, suitable facilities for quick drenching or flushing of the eyes and body shall be provided within the work area for immediate emergency use.
3. In case of a medical emergency, call 911 for necessary ambulance service. This telephone number will be conspicuously posted at each job site by the SCULL CONSTRUCTION SERVICE, INC. Safety Director, Project Manager, or Superintendent. In areas where 911 are not available, the telephone numbers of the physicians, hospitals, or ambulances shall be conspicuously posted. Where on-site emergency help is available, it shall be used. If emergency help is available on-site, the help will be provided by the Customer.

SCULL CONSTRUCTION SERVICE, INC.

Products included in First Aid Cabinets

- a) Plastic Strips (Band-Aids)
- b) Adhesive Tape
- c) Gauze Bandage
- d) Non-Adherent Pads
- e) Gauze Pads
- f) Eye Wash
- g) Ammonia Inhalants
- h) Antiseptic Wipes
- i) Pair Gloves
- j) Triple Biotic Foil Packs
- k) Burn Spray Scissors
- l) Tweezers
- m) Aspirin
- n) Cotton

SCULL CONSTRUCTION SERVICE, INC. .

Forklifts

All employees of SCULL CONSTRUCTION SERVICE, INC. . who operate forklift trucks must be properly trained and authorized to do so.

Trucks, Railroad Cars & Dock boards

When highway trucks are boarded with forklift trucks, the brakes of the highway trucks shall be set and wheel chocks placed under the rear wheels to prevent rolling.

Wheel stops or other recognized positive protection shall be provided to prevent railroad cars from moving during loading or unloading operations.

If necessary, fixed jacks will be used to support a semi-trailer and prevent upending during the loading or unloading when the trailer is not coupled to a tractor.

If used, portable and powered dock boards shall be strong enough to carry the load imposed on them.

Portable dock boards shall be secured in position, either by being anchored or equipped with devices which will prevent their slipping. Handholds or other effective means shall be provided on portable dock boards to permit safe handling.

Operator Training

SCULL CONSTRUCTION SERVICE, INC. . will ensure that each forklift truck operator is competent to operate a forklift truck, as demonstrated by the successful completion of the training and evaluation required by the OSHA standard. No employee will be permitted to operate a forklift truck (except for training purposes) until they have successfully completed the required training.

Training shall consist of a combination of **formal instruction** (lecture, discussion, interactive computer learning, video tape, written material), **practical training**, (demonstrations performed by the trainer and practical exercises performed by the trainee), and **evaluation of the operator's performance in the workplace**.

The trainer for SCULL CONSTRUCTION SERVICE, INC. is the Safety Director and/or outside consultants. They have the knowledge, training, and experience to train forklift truck operators and evaluate their competence.

Our forklift truck operators shall receive initial training in the following topics:

Truck-related topics:

- Operating instructions, warnings, and precautions for the types of truck the operator will be **authorized to operate**;
- Differences between the truck and the automobile;
- Truck controls and instrumentation: where they are located, what they do, and how they work;
- Engine or motor operation;
- Steering and maneuvering;
- Visibility (including restrictions due to loading);
- Fork and attachment adaptation, operation, and use limitations;
- Vehicle stability;
- Vehicle capacity;
- Any vehicle inspection and maintenance that the operator will be required to perform;
- Refueling and/or charging of batteries; Operating limitations;
- Any other operating instructions, warnings, or precautions listed in the **operator's manual** for the types of vehicle that the employee is being trained to operate.

Workplace-related topics:

- Surface conditions where the vehicle will be operated;
- Composition of loads to be carried and load stability;
- Load manipulation, stacking, and un-stacking;
- Pedestrian traffic in areas where the vehicle will be operated;
- Narrow aisles and other restricted places where the vehicle will be operated;
- Hazardous (classified) locations where the vehicle will be operated;
- Ramps and other sloped surfaces that could affect the vehicle's stability;
- Closed environments and other areas where insufficient ventilation or poor vehicle maintenance could cause a buildup of carbon monoxide or diesel exhaust;
- Other unique or potentially hazardous environmental conditions in the workplace that could affect safe operation.

Requirements of this section.

Refresher training and evaluation

Refresher training in relevant topics will be provided to any operator of a forklift truck when:

- a. The operator has been observed to operate the vehicle in an unsafe manner;
- b. The operator has been involved in an accident or near-miss incident;
- c. The operator has received an evaluation that reveals that the operator is not operating the truck safely;
- d. The operator is assigned to drive a **different type of truck**; or
- e. A condition in the workplace changes in a manner that could affect safe operation of the truck.

An evaluation of each forklift truck operator's performance will be conducted **at least once every three years and re-certified.**

Inspections

SCULL CONSTRUCTION SERVICE, INC. operators of forklift trucks shall make an examination of the truck they are using before being placed in service. The trucks **shall not** be placed in service if the examination shows any condition adversely affecting the safety of the forklift truck. This examination will be made by a qualified person at least daily. If our trucks are used on a round-the-clock basis, they will be examined after each shift. **Any defects shall be immediately reported and corrected.**

A copy of our company's inspection form is found at the end of this section.

Certification

SCULL CONSTRUCTION SERVICE, INC. shall issue a certification of training for each employee trained in the safe operation of forklift trucks. The following information shall include the name of the operator, the date of training, the date of the evaluation, and the name and title of the person or persons performing the training or evaluation.

SCULL CONSTRUCTION SERVICE, INC. .

Grounding Conductor Program

Assured Equipment Grounding Conductor Program

This written plan will establish and implement specific procedures for the assured equipment grounding conductor program on construction sites covering:

- All cord sets, receptacles which are not a part of the building or structure, and equipment connected by cord and plug which are available for use or used by employees.

The written description of this program, including the specific procedures adopted by SCULL CONSTRUCTION SERVICE, INC. . is available at our job sites for inspection by the Assistant Secretary and any affected employees.

The **competent person** responsible for implementing this program is the **Safety Director**. The “competent person” means “**one who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them**”.

Each cord set, attachment cap, plug and receptacle of cord sets, and any equipment connected by cord and plug, except cord sets and receptacles which are fixed and not exposed to damage, **shall be visually inspected before each day’s use**, for external defects, such as deformed or missing pins or insulation damage, and for indications of possible internal damage. **Equipment found damaged or defective shall be tagged “DO NOT USE,”** removed from service until repaired and tested.

The following tests shall be performed on all cord sets, receptacles which are not a part of the permanent wiring of the building or structure, and cord-and-plug connected equipment required to be grounded:

1. All equipment grounding conductors shall be tested for continuity and shall be electrically continuous.
2. Each receptacle and attachment cap or plug shall be tested for correct attachment of the equipment grounding conductor. The equipment-grounding conductor shall be connected to its proper terminal. [1926.404(b)(1)(iii)(D)]

The above-required tests shall be performed:

- Before first use;
- Before equipment is returned to service following any repairs;
- Before equipment is used after any incident which can be reasonably suspected to have caused damage; and

- At intervals not to exceed 3 months, except that cord sets and receptacles which are fixed and not exposed to damage shall be tested at intervals not exceeding 6 months.

Ground Fault Protection

GFCI's shall be used on all 120 volt, single-phase, 15- and 20- ampere receptacle outlets which are not part of the permanent wiring of any building and are used by *Scull Construction Service, Inc.* employees. GFCI's are not required on receptacles on a two-wire single-phase portable or vehicle-mounted generator rated not more than 5kw where the circuit conductors are not part of the generator frame. Not all other grounded surfaces need to be protected with GFCI's.

Assured Equipment Grounding

In addition to the use of GFCI's, *Scull Construction Service, Inc.* shall implement and follow assure equipment grounding, which is a testing and identification procedure to verify that electrical equipment is safe to operate in regards to the electrical hazards. Each GFCI, cord set, attachment, cap, plug and receptacle cord sets, and any equipment connected by cord and plug must be visually inspected daily for external defects.

Test Record

Scull Construction Service, Inc. will keep record by using color-coded tape to signify the successful testing of the cord set, receptacle, plug and cord connected equipment, and logging the results of each test. The color of the tape will be based upon the seasons of the year:

White- Winter (January 1- March 31)

Green- Spring (April 1- June 30)

Red- Summer (July- September 31)

Orange- Fall (October 1-December 31)

The record logs will be kept on file at the office, and these records will be made available at the job site as needed.

SCULL CONSTRUCTION SERVICE, INC. will not make available or permit the use of any equipment, which has not met the requirements of an assured equipment-grounding program.

The required tests performed shall be recorded. This test record will identify each receptacle, cord set, and cord-and-plug- connected equipment that passed the test and shall indicate the last date it was tested or the interval for which it was tested. This record shall be kept by means of logs and color-coding and shall be maintained until replaced by a more current record. The record shall be made available on the jobsite for inspection by the Assistant Secretary and any affected employee.

SCULL CONSTRUCTION SERVICE, INC. .

Hazard Communication Program

Introduction

SCULL CONSTRUCTION SERVICE, INC. is complying with the requirements of OSHA's Hazard Communication Standard by compiling an inventory of hazardous chemicals, using Material Safety Data Sheets (SDS), ensuring that containers are labeled, and training our workers present at a given construction site. In addition, we provide this same information to subcontractors involved in a specific project so that they may provide this information and train their employees.

This program applies to all work operations where our employees may be exposed to hazardous substances.

The Safety Director is the program coordinator and has the overall responsibility for the program. He/she will review and update the program, as necessary. Copies of the written program may be obtained from the Safety Director.

All employees, or their designated representatives, can obtain further information on this written program, the hazard communication standard, applicable SDSs, and chemical information lists from the Safety Director. Under this program, our employees will be informed of the contents of the Hazard Communication Standard, the hazardous properties of chemicals with which they work, safe handling procedures, and measures to take to protect themselves from these chemicals.

SCULL CONSTRUCTION SERVICE, INC. . employees will be informed by the Safety Director, in the form of a written document, of the hazards associated with non-routine tasks, such as the cleaning of reactor vessels, and the hazards associated with chemicals in unlabeled pipes.

While OSHA requires that the written Hazard Communication Program, all SDS, and container labels be written in English, SCULL CONSTRUCTION SERVICE, INC. will make every effort to communicate the Hazard Communication Program in the language of non-English speakers. Effective communications will be accomplished through any of the following methods or combinations thereof:

1. Training over entire program in employee's native language with use of an interpreter/intermediary.
2. Video presentations in the native language of the employee.
3. Written materials (handouts, SDS. Container labels) in the native language of the employee, when available and/or accessible.

Hazardous Chemicals Inventory

The Site Superintendent has compiled an inventory of all hazardous chemicals that will be used on the work-site by reviewing container labels and MSDS. The list will be updated as necessary. The list will be kept on the job-site.

The chemical inventory serves as a list of every chemical for which an SDS must be maintained.

The chemical inventory list is found following this section.

Safety Data Sheets (SDSs)

SDS shall be maintained and readily accessible in each work area. SDS can be maintained at the primary work site. However, they must be available in case of an emergency. MSDS must be made available, upon request, to employees, their designated representatives, the Assistant Secretary and the Director of OSHA.

The Safety Director is responsible for obtaining/maintaining the MSDSs at their facility. He/she will contact the chemical manufacturer or vendor if additional research is necessary. All new procurements for the company must be cleared by the Safety Director. The material data sheets are kept at the Safety Director's office and/or on the job site. Employees can obtain access to them by contacting the Safety Director.

Labels and Other Forms of Warning

It is the policy of the SCULL CONSTRUCTION SERVICE, INC. . to ensure that each container of hazardous chemicals on a job site is properly labeled.

Labels will list at least the chemical identity, appropriate hazard warnings, and the name and address of the manufacturer, importer, or other responsible party.

The Safety Director is responsible for ensuring that all hazardous chemicals in in-plant containers are properly labeled and updated, as necessary. He/she also ensures that newly purchased materials are checked for labels prior to use.

If employees transfer chemicals from a labeled container to a portable container that is intended only for their IMMEDIATE use, no labels are required on the portable container.

Employee Information and Training

Everyone who works with or is potentially "exposed" to hazardous chemicals will receive initial training and any necessary retraining on the Hazard Communication Standard and the safe use of those hazardous chemicals by the Safety Director. Whenever a new hazard is introduced or an old hazard changes, additional training is provided.

Information and Training Content

Employees shall be **informed** of the requirements of this section; any operations in their work area where hazardous chemicals are present; and, the location and availability of the written hazard communication program, including the required list(s) of hazardous chemicals, and material safety data sheets required. Employees shall be **trained** in methods and observations that may be used to detect the presence or release of a hazardous chemical in the work area (such as monitoring conducted by the employer, continuous monitoring devices, visual appearance or odor of hazardous chemicals when being released, etc.) The physical and health hazards of the chemicals in the work area and the measures the employees can take to protect themselves from these hazards; including specific procedures, the employer has implemented to protect employees from exposure to hazardous chemicals. Such as appropriate work practices, emergency procedures, and personal protective equipment to be used; and, the details of the hazard communication program developed by the employer, including an explanation of the labeling system and the material safety data sheet, and how employees can obtain and use the appropriate hazard information.

All training shall be documented. This documentation shall include the employee's signature, the subjects on which the employees are trained, location of training and date of training.

Multi-Employer Facility

When contractors or any other employers' workers (i.e., painters, electricians, or plumbers) will be working at this workplace, the Safety Director will:

- Provide the other employer(s) with MSDSs for any of our chemicals to which their employees may be exposed, and
- Relay necessary label and/or emergency precautionary information to the other employer(s).

Each contractor bringing chemicals on-site must provide the Safety Director with the appropriate hazard information on these substances, including the MSDSs, the labels used and the precautionary measures to be taken in working with these chemicals.

Additional Information

All employees, or their designated representatives, can obtain further information on this written program, the hazard communication standard, applicable MSDSs, or chemical information lists from the Safety Director.

All superintendents will contact Scull receptionist with all information to get SDS's updated for their computer. It's up to superintendents to make sure all information is up to date for every job they do.

SCULL CONSTRUCTION SERVICE, INC.

Lifting/Mobile Equipment

Derricks

Only those employees of SCULL CONSTRUCTION SERVICE, INC. . who have been trained in the safe work standards in the operation of derricks shall be authorized and permitted to operate such derricks.

Maintenance

A preventive maintenance program based on the Derrick Manufacturer's recommendations and in accordance with the following procedures shall be followed:

- All hoist drum dogs shall be engaged
- The main or emergency switch shall be locked in the open position, if an electric hoist is used.
- Warning or out of order signs shall be placed on the derrick and hoist
- The repairs of booms of derricks shall either be made when the booms are lowered and adequately supported or safely tied off.

Rope Inspection

A thorough inspection of all ropes in use shall be made at least **once a month by the Competent Person** and a certification record which includes the date of inspection, the signature of the person who performed the inspection, and an identifier for the ropes which were inspected shall be prepared and kept on file where readily available. Any deterioration, resulting in appreciable loss of original strength shall be carefully observed and determination made as to whether further use of the rope would constitute a safety hazard.

All rope which has been idle for a period of a month or more due to shutdown or storage of a derrick shall be given a thorough inspection before it is used and the same certification record completed as required for all rope inspections.

Crawler Locomotive and Truck Cranes (1910.180)

Only designated personnel trained in safe operating procedures of these cranes and in the use of fire extinguishers are permitted to operate these cranes.

Load rating chart

A substantial and durable rating chart with clearly legible letters and figures shall be provided with each crane and securely fixed to the crane cab in a location easily visible to the operator while seated at his/her control station.

Inspection classification

The Safety Director will conduct frequent and periodic inspections. Frequent inspections, conducted in daily to monthly intervals with the following items inspected:

- All control mechanisms for maladjustment interfering with proper operation: Daily
- All control mechanisms for excessive wear of components and contamination by lubricants or other foreign matter.
- All safety devices for malfunction.
- Deterioration or leakage in air or hydraulic systems: Daily
- Crane hooks with deformations or cracks.
- Rope reeving for noncompliance with manufacturer's recommendations.
- Electrical apparatus for malfunctioning, signs of excessive deterioration, dirt, and moisture accumulation.

Complete periodic inspections of the crane shall be conducted at intervals of 1 to 12 months, depending upon its activity, severity of service and environment or as specifically indicated in the manufacturer's manual.

Inspection records

Certification records of inspections shall include the date of inspection, the signature of the person who performed the inspection and the serial number, or other identifier, of the crane which was inspected shall be made monthly on critical items in use such as brakes, and ropes. This certification record shall be kept readily available.

Testing

Rated load test: Written reports shall be available showing test procedures and confirming the adequacy of repairs or alterations.

Rope inspection

A thorough inspection of all ropes in use shall be made at least once a month and a certification record which includes the date of inspection, the signature of the person who performed the inspection and an identifier for the ropes shall be prepared and kept on file where readily available. All inspections shall be performed by an appointed or authorized person who is the Safety Director.

All rope which has been idle for a period of a month or more due to shutdown or storage of a crane on which it is installed shall be given a thorough inspection before it is used.

Particular care shall be taken in the inspection of non-rotating rope.

Fire extinguishers

A carbon dioxide, dry chemical or equivalent fire extinguisher shall be kept in the cab or vicinity of the crane. Operating and maintenance personnel shall be made familiar with the use and care of the fire extinguishers provided.

Operations near overhead lines

If work is to be performed near overhead lines, the lines shall be deenergized and grounded, or other protective measures shall be provided before work is started. These work practices must be done by qualified persons.

Overhead and Gantry Cranes

Only designated and authorized personnel, trained in the safe operations of the crane and in the use and maintenance of the fire extinguishers shall be permitted to operate a crane.

Inspection

Frequent inspections, daily to monthly intervals, and periodic inspections, one to 12 month intervals, shall be conducted on all cranes.

Hooks with deformation or cracks shall be visually inspected daily. Monthly inspections shall be made and a certification record kept. This record shall include the date of inspection, the signature of the person who performed the inspection and the serial number, or other identifier, of the hook inspected. Hooks with cracks or having more than 15% in excess of normal throat opening or more than 10 degrees twist from the plane of the unbent hook shall be discarded.

Hoist chains, including end connections, shall be visually inspected daily for excessive wear, twist, distorted links interfering with proper function, or stretch beyond manufacturer's recommendations. A monthly inspection shall also be conducted with a certification record which includes the date of inspection, the signature of the person who performed the inspection and an identifier of the chain which was inspected.

Maintenance

A preventive maintenance program based on the crane manufacturer's recommendations shall be established.

Before repairs and adjustments are started on a crane, warning or "out of order" signs shall be placed on the crane, also on the floor beneath or on the hook where visible from the floor. Repairs and adjustments shall be done only by designated employees qualified to perform specific duties.

Rope inspection

A thorough inspection of all running ropes shall be made at least once a month and a certification record which includes the date of inspection, the signature of the person who performed the

inspection and an identifier for the ropes which were inspected shall be kept on file where readily available to appointed personnel.

All rope which has been idle for a period of a month or more due to shutdown or storage of a crane on which it is installed shall be a thorough inspection before it is used. This inspection shall be for all types of deterioration and shall be performed by an appointed person whose approval shall be required for further use of the rope. A certification record shall be available for inspection which includes the date of inspection, the signature of the person who performed the inspection and an identifier for the rope which was inspected.

SCULL CONSTRUCTION SERVICE, INC. .

Lockout/Tagout Program

Scope

This energy control program is in effect when employees of SCULL CONSTRUCTION SERVICE, INC. . service and/or maintain machines and equipment in which the “unexpected” energization or start up of the machine and/or equipment, or release of stored energy could cause injury to our employees. Our energy control program is in effect when employees are required to remove or bypass a guard, other safety device. Or when an employee is required to place any part of his or her body into an area on a machine or piece of equipment, where work is actually performed upon the material, being processed (point of operation) or where an associated danger zone exists during a machine operating cycle.

Lock-Out/Tag-Out Devices

Lockout and tagout devices shall be singularly identified; shall be the only device(s) used for controlling energy; shall not be used for other purposes; and shall meet the following requirements:

- Our devices shall be capable of withstanding the environment to which they are exposed for the maximum period of time that exposure is expected.
- Tags shall be constructed and printed so that exposure to weather conditions or wet and damp locations will not cause the tag to deteriorate or the message on the tag to become illegible.
- Tags shall not deteriorate when used in corrosive environments such as areas where acid and alkali chemicals are handled and stored.
- The lockout devices and tagout devices shall indicate the identity of the employee applying the device(s).
- Our tagout devices shall warn against hazardous conditions if the machine or equipment is energized and will include the legend “DO NOT OPERATE”

Periodic Inspections

SCULL CONSTRUCTION SERVICE, INC. will conduct a periodic inspection of the energy control procedure at least annually to ensure that the procedure and the requirements of the standard are being followed. The Safety Director, **who does not actually use the lockout/tagout program**, will conduct the periodic inspections. The company will certify that the inspections have been performed. The certification will identify the machine or equipment on which the procedure was being utilized, the date of the inspection, the employees included in the inspection and the person performing the inspection.

Energy Control Procedures

The Safety Director shall be responsible for controlling the energy control program. Any employee deviating from this written program shall be reprimanded accordingly.

Lockout/Tagout

If an energy-isolating device is not capable of being locked out, we will utilize the tag out system. If we replace, do major repair, renovate, or modify our machines or equipment, we will design such equipment or machines to accept a lockout device.

When a tagout only system is used, we will assure that the tag meets the requirements as stated above and will assure that this system will provide a level of safety to that obtained by using a lockout program.

Basic rules for using lockout or tagout system procedures

- All equipment will be locked out or tagged out to protect against accidental or inadvertent operation, when this operation could cause injury to personnel.
- Do not attempt to operate any switch, valve, or other energy-isolating device where it is locked or tagged out.
- Notify all affected employees that a lockout or tagout system is going to be utilized on a piece of our facility's equipment, as well as the reason lockout/tagout is performed, the energy that the equipment uses, and the hazards of this energy.
- If the equipment is operating, shut it down by the normal stopping procedure (depress the stop button, open the toggle switch, etc.).
- Operate the appropriate switches, valves or other energy isolating devices so that the equipment is isolated from its energy sources. Stored energy (such as that in springs, parts of the equipment that are elevated and could drop, rotating fly-wheels, capacitors, hydraulic systems, and air, gas, steam or water pressure, etc.) must be dissipated or restrained. This can be accomplished by methods such as repositioning, blocking, bleeding down, grounding, etc.
- Lockout and/or tag-out the energy isolating devices with the appropriate individual locks and/or tags.
- After making sure that no personnel are exposed, check the effectiveness of having locked/tagged out the energy sources. This can be done by operating the push button or other normal operating controls to make sure the equipment will not operate—**(CAUTION: Return operating controls to “neutral” or “off” positions after performing these tests.)**

Restoring machines or equipment to normal production operations

- After the work, being performed is completed and the equipment is ready to resume normal production operations, check the area around the equipment to ensure that no one is exposed.
- After all tools have been removed from around the equipment, guards have been reinstalled (if applicable) and employees are in the clear, remove all lock-out/tag-out devices. Operate the energy isolating devices to restore energy to the equipment.

Procedure involving more than one person

- In the proceeding steps, if more than one person is required to lock-out or tag-out equipment, each person will place their own personal lock-out or tag-out device on the energy isolating devices.
- When an energy-isolating device cannot accept multiple locks or tags, a multiple lock-out/tag-out device (such as multi-holed hasp) may be used.
- As an alternative, if lock-out is used a single lock may be used to lock out the equipment, with the key to that single lock being placed in a lock-out box or cabinet, which allows the use of multiple locks to secure that cabinet.
- Each employee will then use his or her own lock to secure the box or cabinet.
- As each person no longer needs to maintain their lockout protection, that person will remove their lock from the multiple lock-out/tag-out devices or the lockout box or cabinet, whichever is being used.

While we can use the General Control Procedure when working with some of or powered equipment, much of our equipment requires that a separate Energy Control Procedure be written specifically for that piece of equipment. As a result, we have prepared specific Energy Control Procedures for that equipment.

Each Energy Control Procedure includes the following information:

- Identity and description of the equipment to which the procedure applies.
- The controls that exist on each piece of equipment (such as “on/off” buttons, toggle switches, etc.).
- The types of energy used by the equipment.
- Energy sources and energy isolation devices associated with that equipment.
- Shutdown procedures to be used to de-energize the equipment.

- Release and start-up procedures to be used with the equipment.

These procedures may need to be revised if modifications are made to the equipment or our energy systems. Whenever modifications of this type are made, we will review the Energy Control Procedures associated with the affected equipment.

Our Energy Control Procedures shall be periodically reviewed to make sure they are accurate and up-to-date. To keep our procedures current we review these procedures annually.

Shutdown Procedures

The steps listed below must be followed to properly shut down and de-energize this equipment.

- Notify “affected” and “other” employees of impending equipment shutdown.
- Before shutdown, our authorized employee, a Scull Certified Electrician, shall have knowledge of the type and magnitude of the energy, the hazards of the energy to be controlled, and the method or means to control the energy.
- The machine or equipment shall be turned off or shut down using the procedures established for the machine or equipment. An orderly shutdown must be utilized to avoid any additional or increased hazard(s) to employees because of the equipment stoppage.
- Lockout or tagout devices shall be affixed to each energy-isolating device by our authorized employee.
- Following the application of lockout or tagout, all potentially hazardous stored or residual energy shall be relieved, disconnected, restrained, and otherwise rendered safe.
- Prior to starting work on machines or equipment, that have been locked out or tagged out, the authorized employee shall verify that isolation, and de-energization has been accomplished.

Release and Restart Procedures

The steps listed below must be followed to properly release this equipment from a locked or tagged out condition and affected its restart. Our authorized employee, a Scull Certified Electrician, shall follow the procedures listed below:

- The work area shall be inspected to ensure that nonessential items have been removed and to ensure that machine or equipment components are operationally intact.
- The work area shall be checked to ensure that all employees have been safely positioned or removed.
- After lockout or tagout devices have been removed and before a machine or equipment is started. Affected employees shall be notified that the lockout or tagout devices have been removed.

Each lockout or tagout device shall be removed from each energy-isolating device by the employee who applied it. If the authorized employee who applied the device is not available to remove it, that device may be removed under the direction of the employer, provided that specific procedures and training for such removal have been developed, documented and incorporated into our energy control program. We will verify that the authorized employee who applied the device is not at the facility. We will make all reasonable efforts to contact the

authorized employee to inform him/her that their lockout or tagout device has been removed. We will ensure that the authorized employee has this knowledge before they resume work at that facility.

Employee Training

Employees will be provided with comprehensive training in the following areas.

- **“Authorized” Employees** – have been trained in three areas:
 1. Recognition of Hazardous Energy Sources
 2. Ability to identify the type and magnitude of energy available in the facility.
 3. The methods and means necessary to isolate and control this energy (i.e., the facility’s Energy Control Procedures).
- **Affected Employees** – Trained in the purpose and use of the facility’s Energy Control Procedures for equipment that they operate or equipment located in areas in which they work.
- **“Other” Employees** (whose work operations are in areas where Energy Control Procedures may be utilized.) – These employees are trained regarding the appropriate Energy Control Procedure, as well as the fact that they are prohibited from attempting to re-start or re-energize equipment which is locked or tagged out.
- **Authorized, Affected and “Other” Employees** – **Employees whose job requires him/her to operate or use a machine/equipment on which servicing or maintenance is being performed under lockout or tag-out. Or whose job requires him/her to work in an area in which such servicing or maintenance is being performed or when performing servicing or maintenance on such machines or equipment.**

In addition to providing initial training to all the categories of employees listed above, both “authorized” and “affected” employees are re-trained in the following situations:

- When their job assignments change.
- When there is a change in the equipment that they operate or the processes that they are involved with which presents a new hazard.
- When there is a change in Energy Control Procedures affecting them.

Our employees are also re-trained periodically to keep their knowledge “up-to-date” on whenever we discover any employees deviating from established Energy Control Procedures.

Additionally, employees who have received Energy Control Program training are listed, along with the dates of their initial training and any re-training that they have gone through.

All training is the responsibility of SCULL CONSTRUCTION SERVICE, INC. Safety Director. He/she **shall certify that the training has been accomplished and is being kept up to date.** The certification shall contain each employee's name and dates of training.

SCULL CONSTRUCTION SERVICE, INC. .

Noise Exposure

Administration

It is the policy of SCULL CONSTRUCTION SERVICE, INC. to institute an occupational hearing conservation program for our construction workers to prevent any temporary or permanent noise-induced hearing loss to employees, and to comply with the federal OSHA standard found at 29 CFR 1926.52.

This written hearing conservation plan serves as a record of the details of the hearing conservation program in place at this company. We have this program in place to meet the hearing of all workers in the company. Elements of the hearing conservation program include:

- Monitoring
- Audiometric testing program
- Hearing Protection
- Training and Information, and
- Recordkeeping

The Safety Director is the person having overall responsibility for the Hearing Conservation Program. He/she will review and update the program, as necessary.

Copies of the written program may be obtained from the Safety Director.

Monitoring

The monitoring program is in place by SCULL CONSTRUCTION SERVICE, INC. . to provide an ongoing means of determining employee exposure to noise and protect employees based on excessive exposure.

When information indicates that any employee's exposure may equal or exceed an 8-hour time-weighted average of 85 decibels, the company develops and implements an appropriate monitoring program to identify all employees for inclusion in the hearing conservation program and to select proper hearing protection.

The company notifies all employees exposed at or above an 8-hour time-weighted average of 85 decibels of the results of the monitoring.

Hearing Protection

The company makes hearing protectors available to all employees exposed to an 8-hour time-weighted average of 85 decibels or greater at **no cost to the employees.**

The company ensures that employees have a variety of suitable protectors that attenuate

employee exposure at least to an 8-hour time-weighted average of 90 decibels, or 85 decibels or lower for employees who have experienced a standard threshold shift in their hearing.

The company ensures evaluation for adequacy of the hearing protection attenuation for the specific noise environments in which the protector will be used, according to specifications.

The company reevaluates attenuation whenever employee noise exposures increase to the extent that current hearing protectors no longer provide adequate attenuation, and then provides a more effective hearing protection.

Training and Information

SCULL CONSTRUCTION SERVICE, INC. has a hearing protection-training program for all employees exposed to noise at or above an 8-hour time-weighted average of 85 decibels. The Safety Director is responsible for providing this training.

The company repeats the training program annually. The company assures that the training material is updated to be consistent with changes in the protective equipment and work processes.

The company assures that each employee is informed of at least the following information:

- The effects of noise on hearing;
- The purpose of hearing protectors, the advantages, disadvantages, and attenuation of various types, and instructions on selection, fitting, use, and care;
- The purpose of audiometric testing; and
- An explanation of testing procedures.

The company makes informational materials pertaining to the Occupational Noise Exposure standard that are supplied to it by OSHA available to affected employees or their representatives.

SCULL CONSTRUCTION SERVICE, INC.

Personal Protective Equipment (PPE) Assessments

Application

Protective equipment, including personal protective equipment for eyes, face, head, and extremities, protective clothing, respiratory devices, and protective shields and barriers, shall be provided, used, and maintained in a sanitary and reliable condition wherever it is necessary by reason of hazards of processes or environment, chemical hazards, radiological hazards, or mechanical irritants encountered in a manner capable of causing injury or impairment in the function of any part of the body through **absorption, inhalation or physical contact**. **The SCULL CONSTRUCTION SERVICE, INC. Safety Director, Project Manager, or Superintendent shall conduct inspections to ensure the proper maintenance and operation of all PPE.**

Employee-owned Equipment

Where employees provide their own protective equipment, SCULL CONSTRUCTION SERVICE, INC. . shall be responsible to assure its adequacy, including **proper maintenance, and sanitation of such equipment**.

Hazard Assessment and Equipment Selection

SCULL CONSTRUCTION SERVICE, INC. shall assess the workplace to determine if hazards are present, or are likely to be present, which requires the use of personal protective equipment. If such hazards are present, or likely to be present, SCULL CONSTRUCTION SERVICE, INC. shall:

- Select, and **have each affected employee use**, the types of PPE that will protect the affected employee from the hazards identified in the hazard assessment.
- Communicate the selection decisions to each affected employee.
- Select PPE that **properly fits each affected employee**.

SCULL CONSTRUCTION SERVICE, INC. shall verify that the required workplace hazard assessment has been performed through a written certification that identifies the workplace evaluated; the person certifying that the evaluation has been performed, the date(s) of the hazard assessment; and, which identifies the document as a certification of hazard assessment.

Defective and Damaged Equipment

Defective or damaged personal protective equipment **shall not be used**.

Training

SCULL CONSTRUCTION SERVICE, INC. Safety Director, Project Manager, or Superintendent shall provide training to each employee who is required to use PPE. They shall be trained to know **at least** the following:

- When PPE is necessary
- What PPE is necessary
- How to properly don, doff, adjust, and wear PPE
- The limitations of PPE
- The proper care, maintenance, useful life and disposal of the PPE

Each trained employee shall demonstrate an understanding of the training and the ability to use PPE properly before being allowed to perform work requiring the use of PPE.

When SCULL CONSTRUCTION SERVICE, INC. . has reason to believe that, any affected employee who has already been trained does not have the understanding and skill required they shall retrain each such employee. Circumstances where retraining is required include, but are not limited to, situations where:

- Changes in the workplace render previous training obsolete or
- Changes in the types of PPE to be used render previous training obsolete or
- Inadequacies in an affected employee's knowledge or use of assigned PPE indicate that the employee has not retained the requisite understanding or skill.

SCULL CONSTRUCTION SERVICE, INC. shall verify that each affected employee has received and understood the required training through a written certification that contains the name of each employee trained, the date(s) of training, and that identifies the subject of the certification.

Employees will be required to wear hard hats, safety glasses and high visibility at all times, from start to finish of job.

SCULL CONSTRUCTION SERVICE, INC.

Process Safety Management (PSM)

The purpose of this program is to ensure that all employees of SCULL CONSTRUCTION SERVICE, INC. are made aware of the possible hazards of their job so that the consequences of catastrophic releases of toxic, reactive, flammable, or explosive chemicals in certain job settings are prevented or at the very least minimized.

Training requirements

SCULL CONSTRUCTION SERVICE, INC. management pledges that each employee, upon hire, presently involved in operating a process and/or before being involved in operating a newly assigned process, shall be trained by the Safety Director and/or outside consultants in the safe work practices necessary to his/her job so that the safety of our employees as well as others around the job site is not compromised. The training shall include emphasis on the specific safety and health hazards, emergency operations including shutdown, and safe work practices applicable to the employee's job tasks.

Refresher training shall be provided at least every three years, and more often if necessary, to each employee involved in operating a process to assure that the employee understands and adheres to the current operating procedures of the process. The employer, in consultation with the employees involved in operating the process, shall determine the appropriate frequency of refresher training.

Training will remain on going throughout the tenure of employment through hazard communication, confined space entry, lockout/tag out, and site-specific orientation and constant hands-on training by supervision.

All training will be documented, which includes the identity of the employee, the date of training, and the means used to verify that the employee understood the training, and maintained in the employee safety file.

Task evaluation

Each task that requires the use of chemicals will be evaluated to determine the chemical or combination of chemicals that will be used to perform the task as well as other materials that may be used near the work. If a malfunction during the operation has the potential to cause serious injury or property damage, the Emergency Action Plan will be put into effect.

Responsibilities

SCULL CONSTRUCTION SERVICE, INC., Safety Director will be responsible to assure that all employees are properly trained by his/her designee in hazard assessment, hazard communication, accident/incident reporting, and safe work procedures to the extent that the supervisors can properly relay all information to employees and see that all procedures are followed.

Safe Work Practices

All employees of SCULL CONSTRUCTION SERVICE, INC. will abide by the proven safe work practices of all host-contracting authorities. In the event that a contract authority program is in contrast to that of SCULL CONSTRUCTION SERVICE, INC., the more stringent program and procedures will apply.

Whenever SCULL CONSTRUCTION SERVICE, INC. performs work in any refinery, gas plant, etc., our employees will be made aware through the use of pre-job safety meetings of all unique hazards of the employer's work, or of any hazards found by the contract employee's work, any chemicals they may be confronted with, all confined spaces, all lockout/tag out procedures and all other information pertinent to the work being performed on the contract authorities premises.

Emergency Action Plan

In order to assure that employees are exposed to the least amount of danger possible, SCULL CONSTRUCTION SERVICE, INC. has initiated the following Emergency Action Plan in accordance with OSHA Standard 29CFR 1910.38. This policy will be in effect on all job sites before work begins and all employees will be apprised of the contents of the plan.

1. In the event of an emergency at the job site, when the alarm sounds or by verbal command, all work shall stop immediately and employees shall proceed in an orderly fashion to the predetermined meeting area. When possible, a map giving emergency evacuation routes will be on the job site. If a map is not available, all affected employees will be informed of the routes beforehand. Once the employees have left the work area, they are not to return until the "all clear" has been given.
2. If possible and feasible, the supervisors on the job shall make sure that all equipment is shut down before he/she leaves the work area. If this is not feasible, the main source of power should at least be disconnected or by some means shut off.
3. On each SCULL CONSTRUCTION SERVICE, INC., job site an employee roster will be filled out daily. This roster shall include the employee's name, social security number, and time in and out of the work area. In the event of an evacuation, when the employees have gathered at the pre-determined meeting area, the foreman will then take a roll call using the employee job site roster sheet and shall verify in writing each employees presence at the meeting site.
4. Unless First Aid responders are certified and qualified, no employee of SCULL CONSTRUCTION SERVICE, INC. shall perform rescue or medical services outside of those which are practical.
5. In the event of a fire or other emergency, it is preferred that the supervisors be informed immediately so that he/she can make other necessary notifications. If for any reason this is not possible, then a member of MANAGEMENT shall be notified at once. All emergency phone numbers shall be available at the job site.

6. If questions arise concerning any aspect of this plan, or if further information is necessary, then the Safety Director should be notified.
7. The supervisors shall be trained to assist in the safe and orderly evacuation of employees.
8. The emergency action plan shall be reviewed by and explained to employees at the following times:
 - At the beginning of each new job assignment.
 - Whenever the employee's responsibilities or designated duties under the plan change.
 - Whenever the plan itself is changed.
9. All accidents, incidents, and near misses will be reported to the supervisor immediately. An accident/incident investigation will be initiated within 48 hours and all documentation pertaining to the investigation as far as corrective action and resolutions will be maintained for a period of 5 years.
10. This emergency action plan shall be available on every job site.

Hot Work Permits

Employees of SCULL CONSTRUCTION SERVICE, INC. are informed that no work that involves hazards pertaining to ignition, flames, electricity or other spark causing possibilities will be performed without obtaining a hot work permit from the contracting authority and that all provisions of the permit are explained to and understood by the employee.

Trade Secret Confidentiality

At times when employees will be working on the premises of different fuel or chemical producing companies, they will respect the confidentiality of trade secret information when the process safety information is given to them.

Conclusion

SCULL CONSTRUCTION SERVICE, INC. pledges to review and update this program annually or when changes in the process occur. Whenever changes are made, all employees will undergo retraining and this will be documented and placed in the employee safety file.

SCULL CONSTRUCTION SERVICE, INC.

Scaffolds (Users Only)

Training Requirements

SCULL CONSTRUCTION SERVICE, INC. requires that each employee who performs work while on a scaffold be trained by the Safety Director, Superintendent and/or outside consultants, who are qualified in scaffold use, have the ability to recognize the hazards associated with the type of scaffold being used and understands the procedures to control or minimize those hazards. The training shall include the following areas, as applicable:

- The nature of any electrical hazards, fall hazards and falling object hazards in the work area;
- The correct procedures for dealing with electrical hazards and for erecting, maintaining, and disassembling the fall protection systems and falling object protection systems being used;
- The proper use of the scaffold, and the proper handling of materials on the scaffold;
- The maximum intended load and the load-carrying capacities of the scaffolds used; and
- Never use a scaffold that is tagged out with the following tag: **DEFECTIVE SCAFFOLD – DO NOT USE UNTIL REPAIRED OR REPLACED!**
- Any other pertinent requirements of subpart L.

SCULL CONSTRUCTION SERVICE, INC. shall have each employee who is involved in erecting, disassembling, moving, operating, repairing, maintaining, or inspecting a scaffold trained by the Safety Director or Superintendent, to recognize any hazards associated with the work in question. The training shall include the following topics, as applicable:

- The nature of scaffold hazards;
- The correct procedures for erecting, disassembling, moving, operating, repairing, inspecting, and maintaining the type of scaffold in question;
- The design criteria, maximum intended load-carrying capacity and intended use of the scaffold;
- Any other pertinent requirements of this subpart.

When SCULL CONSTRUCTION SERVICE, INC. has reason to believe that an employee lacks the skill or understanding needed for safe work involving the erection, use or dismantling of scaffolds, we will retrain each such employee so that the requisite proficiency is regained. Retraining shall be required in at least the following situations:

- Where changes at the work-site present a hazard about which an employee has not been previously trained; or
- Where changes in the types of scaffolds, fall protection, falling object protection, or other equipment present a hazard about which an employee has not been previously trained; or

- Where inadequacies have affected employee's work, involving scaffolds indicate that the employee has not retained the requisite proficiency.

Inspections and Tags

The Safety Director or Superintendent shall inspect all scaffolds and scaffold components for visual defects before each work shift, after any occurrence which could affect a scaffold's structural integrity and during use to insure that such scaffolds are safe for employees to use. **A green tag w/black print – "OK – DO NOT ALTER** shall be affixed to the scaffold stating that the scaffold has been erected to meet the OSHA standards and is safe for all crafts.

If the scaffold inspections find the scaffolds defective and not meeting the OSHA requirements and that employees working from the scaffold must use an approved safety harness the scaffold must be tagged with a **yellow tag w/black print - "CAUTION This scaffold does NOT MEET OSHA Specifications."** That scaffold may not be used until the defects are corrected and/or fall protection is used if required.

If the scaffold is being erected, taken down or has been found defective, it shall be tagged with a **red tag w/black print - "DANGER - DO NOT USE THIS SCAFFOLD - KEEP OFF."**

Examples of these tags are found following this section.

Employees shall comply with the above tags and all supervisors shall enforce this rule. The defective scaffolds shall be immediately repaired or replaced, braced to meet those provisions, or removed from service until repaired.

Modifications

Only SCULL CONSTRUCTION SERVICE, INC. Safety Director or Superintendent is qualified and allowed to modify scaffolding systems used in our company. **Non-qualified employees shall not make any modifications of the scaffolding systems.** Non-qualified employees attempting to modify scaffolding will be disciplined according to our Disciplinary Program.

SCULL CONSTRUCTION SERVICE, INC.

TRENCHING/SHORING

Scope and application

The following rules shall apply to all open excavations made in the earth's surface. Excavations are defined to include trenches.

Specific excavation requirements

Surface encumbrances

All surface encumbrances that are located to create a hazard to employees shall be removed or supported, as necessary, to safeguard employees.

Underground installations

1. The estimated location of utility installations, such as sewer, telephone, fuel, electric, waterlines, or any other underground installations that reasonably may be expected to be encountered during excavation work, shall be determined prior to opening an excavation.
1. Utility companies or owners shall be contacted within established or customary local response times
installations prior to the start of actual excavation. When utility companies or owners cannot respond to a request to locate their utilities within 24 hours, or cannot establish the exact location of these installations, SCULL CONSTRUCTION SERVICE, INC. may proceed, provided they do so with caution, and provided detection equipment or other acceptable means to locate the utilities are used.
2. When excavation operations approach the estimated location of underground installations, the exact
location of the installations shall be determined by safe and acceptable means.
3. While the excavation is open, underground installations shall be protected, supported or removed as
necessary to safeguard employees.

Access and egress

A stairway, ladder, ramp, or other safe means of egress shall be located in trench excavations that are 4 feet or more in depth to require no more than 25 feet of lateral travel for employees.

Exposure to vehicular traffic

Employees exposed to public vehicular traffic shall be provided with **and shall wear**, warning vests or other suitable garments marked with or made of reflectorized or high visibility material.

Exposure to falling loads

No employee shall be permitted underneath loads handled by lifting or digging equipment. Employees shall be required to stand away from any vehicle being loaded or unloaded to avoid being struck by any spillage or falling materials.

Warning system for mobile equipment

When mobile equipment is operated adjacent to an excavation, or when such equipment is required to approach the edge of an excavation, and the operator does not have a clear and direct view of the edge of the excavation, a warning system shall be utilized such as barricades, hand or mechanical signals, or stop logs. If possible, the grade should be away from the excavation.

Hazardous atmospheres

Where oxygen deficiency (less than 19.5 percent oxygen) or a hazardous atmosphere exists or could reasonably be expected to exist, such as in excavations in landfill areas or excavations in areas where hazardous substances are stored nearby, the atmospheres in the excavation **shall be tested before employees enter excavations greater than 4 ft. in depth.**

Adequate precautions shall be taken to prevent employee exposure to hazardous atmospheres. These precautions include providing proper respiratory protection or ventilation.

Adequate precaution shall be taken such as providing ventilation, to prevent employee exposure to an atmosphere containing a concentration of a flammable gas in excess of 20 percent of the lower flammable limit (LFL) of the gas.

When controls are used that is intended to reduce the level of atmospheric contaminants to acceptable levels, testing shall be conducted as often as necessary to ensure that the atmosphere remains safe.

When controls are used that is intended to reduce the level of atmospheric contaminants to acceptable levels, **testing shall be conducted as often as necessary to ensure that the atmosphere remains safe.**

Emergency rescue equipment

Emergency rescue equipment, such as breathing apparatus, a safety harness and line, or a basket stretcher, shall be readily available where hazardous atmospheric conditions exist or may reasonably be expected to develop during work in an excavation. This equipment shall be attended when in use.

Protection from hazards associated with water accumulation

Employees shall not work in excavations in which there is accumulated water, or in excavations in which water is accumulating, unless adequate precautions have been taken to protect employees against the hazards posed by water accumulation. The precautions may vary with each situation, but could include **special support or shield systems, water removal, or use of a safety harness and lifeline.**

If water is controlled or prevented from accumulating by the use of water removal equipment, the equipment and operations shall be monitored by a **competent person who is the Safety Director.**

Excavations subject to runoff from heavy rains will require an **inspection by the competent person.**

Stability of adjacent structures

Where the stability of adjoining buildings, walls, or other structures is endangered by excavation operations, support systems such as shoring, bracing, or underpinning shall be provided to ensure their stability for the protection of employees.

Protection of employees from loose rock or soil

Adequate protection shall be provided to protect employees from loose rock or soil that could pose a hazard by falling or rolling from an excavation **face.** Such protection shall consist of scaling to remove loose material; installation of protective barricades at intervals as necessary on the face to stop and contain falling material; or other means of equivalent protection.

All materials and equipment **shall be placed and kept at least 2 feet from the edge of the excavation, or retaining devices shall be used to prevent material and equipment from falling or rolling into excavations.**

Inspections

Daily inspections of excavations, the adjacent areas, and protective systems shall be made by the **competent person** for evidence of a situation that could result in possible cave-ins, indications of failure of protective systems, hazardous atmospheres, or other hazardous conditions. Inspections shall also be made after every rainstorm or other hazard-increasing occurrence.

Where the competent person finds evidence of a situation that could result in a possible cave-in, indications of failure of protective systems, hazardous atmospheres, or other hazardous conditions, exposed employees shall be removed from the hazardous area until the necessary precautions have been taken to ensure their safety.

Competent person

The competent person for SCULL CONSTRUCTION SERVICE, INC. is **the General Manager and Superintendents.** He/she is capable of identifying existing and predictable hazards in the surroundings, or working conditions which are unsanitary, hazardous, or dangerous to

employees. **The Safety Director or Superintendents have authorization to take prompt corrective measures to eliminate the conditions.**

The Safety Director or Superintendents are responsible for protecting all employees in an excavation from cave-ins by an adequate protective system designed in accordance with the OSHA standards.

Fall protection

Walkways with the required guardrails shall be provided where employees or equipment are required or permitted to cross over excavations.

Requirements for protective systems

Each employee in an excavation shall be protected from cave-ins by an adequate protective system designed in accordance with the OSHA standard 1926.652(b) or (c). Except when excavations are made entirely in stable rock, or in excavations are less than 5 feet in depth and examination of the ground by a competent person provides no indication of a potential cave-in.

Protective systems shall have the capacity to resist without failure all loads that are intended or could be reasonably expected to be applied or transmitted to the system.

The slopes and configurations of sloping and benching systems shall be selected and constructed in accordance with the requirements of the OSHA standard.

Materials and equipment used for protective systems shall be free from damage or defects that might impair their proper function. When the material or equipment is damaged, a competent person shall examine the material or equipment and evaluate its suitability for continued use. If the competent person cannot assure that they are able to support the intended loads or is otherwise suitable for safe use, then it must be removed from service and shall be evaluated and approved by a registered professional engineer before being returned to service.

Shield Systems

Shield systems shall not be subjected to loads exceeding those which the system was designed to withstand.

Shields shall be installed in a manner to restrict lateral or other hazardous movement of the shield in the event of the application of sudden lateral loads.

Employees shall be protected from the hazard of cave-ins when entering or exiting the areas protected by shields.

Employees shall not be allowed in shields when they are being installed, removed, or moved **vertically.**

Excavations of earth material to a level not greater than 2 feet below the bottom of a shield shall be permitted. Only if the shield is designed to resist the forces calculated for the full depth of the trench, and there are no indications while the trench is open of a possible loss of soil from behind or below the bottom of the shield.

Soil classification and design of protection

Soil classification as found in the Appendix A to 1926 Subpart P shall be used to determine the type of protection necessary in an excavation.

Appendix B to 1926 Subpart P contains specifications for sloping and benching when used as methods of protecting employees working in excavations from cave-ins.

SCULL CONSTRUCTION SERVICE, INC.

Welding, Cutting, and Hot Work

GENERAL REQUIREMENTS

Fire Prevention and Protection

Basic Precautions

The basic precautions for fire prevention in welding or cutting work are:

- If the object to be welded or cut cannot readily be moved, all movable fire hazards in the vicinity shall be taken to a safe place.
- If the object to be welded or cut cannot be moved and if all the fire hazards cannot be removed, then guards shall be used to confine the heat, sparks, and slag, and to protect the immovable fire hazards.
- If the above requirements cannot be met, then welding and cutting shall not be performed.

Special Precautions

Suitable fire extinguishing equipment shall be maintained in a state of readiness for instant use. Such equipment may consist of pails of water, buckets of sand, hose, or portable extinguishers depending upon the nature and quantity of the combustible material exposed.

Firewatchers are required whenever welding or cutting is performed in locations where other than a minor fire might develop, or any of the following conditions exist:

- Appreciable combustible materials, in building construction or contents, closer than 35 feet to the point of operation.
- Appreciable combustibles more than 35 feet away but are easily ignited by sparks.

A fire watch shall be maintained for at least a half-hour after completion of welding or cutting operations to detect and extinguish possible smoldering fires.

Assigned firewatchers will be trained in the use of the fire extinguishing equipment and familiar with the facilities for sounding an alarm in the event of fire.

Cutting or welding shall not be permitted in the following situations:

- In areas not authorized by management. Before cutting or welding is permitted, the area shall be inspected by the Safety Director, who is the individual responsible for authorizing cutting and welding operations. The Safety Director shall designate precautions to be followed in granting authorization to proceed. This shall be done in the form of a written permit.
- 1910.252 (a)(2)(iv)

- In sprinklered buildings while such protection is impaired.
- In the presence of explosive atmospheres (mixtures of flammable gases, vapors, liquids, or dusts with air), or explosive atmospheres that may develop inside uncleaned or improperly prepared tanks or equipment which have previously contained such materials, or that may develop in areas with an accumulation of combustible dusts.

Welding or Cutting Containers

No welding, cutting, or other hot work shall be performed on used drums, barrels, tanks or other containers until they have been cleaned so thoroughly as to make absolutely certain that there are no flammable materials present or any substances such as greases, tars, acids, or other materials which when subjected to heat, might produce flammable or toxic vapors. Any pipelines or connections to the drum or vessel shall be disconnected or blanked.

Protection of Personnel

General

A welder or helper working on platforms, scaffolds, or runways shall be protected against falling with railings, safety belts, lifelines, or some equally effective safeguards.

Eye Protection

Helmets or hand shields shall be used during all arc welding or arc cutting operations, excluding submerged arc welding. Helpers or attendants shall be provided with proper eye protection.

Helmets and hand shields shall be made of a material which is an insulator for heat and electricity.

Helmets, shields, and goggles shall not be readily flammable and shall be capable of withstanding sterilization.

Helmets and hand shields shall be arranged to protect the face, neck, and ears from direct radiant energy from the arc.

Where the work permits, the welder should be enclosed in an individual booth painted with a finish of low reflectivity such as zinc oxide (an important factor for absorbing ultra-violet radiations) and lampblack, or shall be enclosed with non-combustible screens similarly painted. Booths and screens shall permit circulation of air at floor level. Workers or other persons adjacent to the welding areas shall be protected from the rays by non-combustible or flameproof screens or shields or shall be required to wear appropriate goggles.

Protective Clothing

Employees exposed to the hazards created by welding, cutting, or brazing operations shall be protected by personal protective equipment in accordance with the requirements of OSHA Standard 1910.132. appropriate protective clothing required for any welding operation will vary with the size, nature, and location of the work to be performed. Welders should always select clothing materials which will provide maximum protection from sparks and hot metal. Protective

eyewear, safety shoes, clean, fire-resistant clothing, and fire-resistant gauntlet gloves are recommended. Additionally, the shirt should have full sleeves, no pockets and should be work outside the trousers with collar buttoned. The trousers should have no cuffs and should extend well down to the safety shoes.

All protective equipment shall be provided at no cost to the employee.

Work in Confined Spaces

A confined space is defined in this regulation to be a relatively small or restricted space such as a tank, boiler, pressure vessel, or small compartment of a ship.

Adequate ventilation is a prerequisite to work in confined spaces. Ventilation requirements are discussed later in this section.

When welding or cutting is being performed in any confined space, the gas cylinders and welding machines shall be left on the outside.

Where welders must enter a confined space through a manhole or other small opening, means shall be provided for quickly removing them in case of emergency. An attendant with a pre-planned rescue procedure shall be stationed outside to observe the welder at all times and be capable of putting rescue operations into effect.

When arc welding is to be suspended for any substantial period of time, such as during lunch or overnight, all electrodes shall be removed from the holders and the holders carefully located so that accidental contact cannot occur and the machine disconnected from the power source.

In order to eliminate the possibility of gas escaping through leaks of improperly closed valves, when gas welding or cutting, the torch valves shall be closed and the fuel-gas and oxygen supply to the torch positively shut off at some point outside the confined area whenever the torch is not to be used for a substantial period of time. Such as during lunch or overnight, where practicable, the torch and hose shall also be removed from the confined space.

Health Protection and Ventilation

Local exhaust or general ventilating systems are required when welding or cutting is done with materials not specifically mentioned in this section. These systems shall be arranged to keep the amount of toxic fumes, gases, or dusts below the maximum allowable concentration as specified in 1910.1000. These materials—fluorine compounds, zinc, lead, beryllium, cadmium, mercury, cleaning compounds, and stainless steel are particularly hazardous and have specific control requirements.

When welding must be performed in a space entirely screened on all sides, the screens shall be so arranged that no serious restriction of ventilation exists. It is desirable to have the screens so mounted that they are about 2 feet above the floor unless the work is performed at so low a level that the screen must be extended nearer to the floor to protect nearby workers from the glare of welding.

First aid equipment shall be available at all times. All injuries shall be reported as soon as possible for medical attention. First aid shall be rendered until medical attention can be provided.

Training

It is the policy of SCULL CONSTRUCTION SERVICE, INC. to permit only trained and authorized personnel to operate welding cutting equipment.

All welders and cutters are trained and tested by the Safety Director or Superintendents on the equipment they will be operating before they begin their job. Training will cover the operational hazards of our welding and cutting operations, including:

- Hazards associated with the particular make and model of with welding and cutting equipment
- Hazards of the workplace, and
- General hazards that apply to the operation of all or most welding and cutting equipment.

All training will be evaluated and documented.

OXYGEN-FUEL GAS WELDING AND CUTTING – 1910.253

General Requirements

Under no conditions shall acetylene be generated, piped (except in approved cylinder manifolds, (or utilized at a pressure in excess of 15 psig (pounds per square inch gauge) or 30 psia (pounds per square inch absolute). The 30-psia limit is intended to prevent unsafe use of acetylene in pressurized chambers such as caissons, underground excavations, or tunnel construction.

This requirement is not intended to apply to storage of acetylene dissolved in a suitable solvent in cylinders manufactured and maintained according to U.S. Department of Transportation requirements, or to acetylene for chemical use.

Cylinders and Containers

Approval and Marking

All portable cylinders used for the storage and shipment of compressed gases shall be constructed and maintained in accordance with the regulations of the U.S. Department of Transportation, 49 CFR parts 171-179.

Compressed gas cylinders shall be legibly marked, for the purpose of identifying the gas content, with either the chemical or trade name of the gas. Such marking shall be by means of stenciling, stamping, or labeling, and shall not be readily removable. Whenever practical, the marking shall be located on the shoulder of the cylinder.

Storage of Cylinders – General

Cylinders shall be kept away from radiators and other sources of heat.

Inside of buildings, cylinders shall be stored in a well-protected, well-ventilated, dry location, at least 20 feet (6.1 m) from highly combustible materials.

Cylinders should be stored in definitely assigned places away from elevators, stairs, or gangways, or other areas where they might be knocked over or damaged by passing or falling objects, or subject to tampering.

Empty cylinders shall have their valves closed.

Valve protection caps, where the cylinder is designed to accept a cap, shall always be in place, hand-tight, except when cylinders are in use or connected for use. The valve protection cap is designed to take the blow in case the cylinder falls.

Fuel Gas Cylinder Storage

Inside a building, cylinders, except those in actual use or attached ready for use, shall be limited to a total gas capacity of 2,000 cubic feet (56m³) or 300 pounds of liquefied petroleum gas.

Acetylene cylinders shall be stored valve end up. If the cylinder is on its side, acetone may leak out and create a dangerous condition.

Oxygen Storage

Oxygen cylinders in storage shall be separated from fuel-gas cylinders or combustible materials (especially oil or grease), a minimum distance of 20 feet (6.1 m) or by a non-combustible barrier at least 5 feet (1.5 m) high having a fire-resistance rating of at least one-half hour. This requirement is intended to reduce the possibility of any fire support when a fire occurs among the fuel gas storage.

Operating Procedures

Cylinders, cylinder valves, couplings, regulators, hose, and apparatus shall be kept free from oily or greasy substances. Oxygen cylinders or apparatus shall not be handled with oily hands or gloves. A jet of oxygen must never be permitted to strike an oily surface, greasy clothes, or enter a fuel oil or other storage tank.

Valve-protection caps shall not be used for lifting cylinders from one vertical position to another. The cap may accidentally and suddenly come loose. Should the cylinder fall or be knocked over, the valve may be damaged or sheared off, causing a sudden release of pressure.

Should the valve outlet of a cylinder become clogged with ice, thaw with warm-not boiling-water.

Unless cylinders are secured on a special truck, regulators shall be removed and valve-protection caps, when provided for, shall be put in place before cylinders are moved.

Cylinders not having fixed hand wheels shall have keys, handles, or non-adjustable wrenches on valve stems while these cylinders are in service.

Unless connected to a manifold, always attach a regulator to the compressed gas cylinder before use. Make certain that the regulator is proper for the particular gas and service pressure. Make sure the regulator is clean and has a clean filter installed in its inlet nipple.

Before attaching the regulator, remove the protective cap from the cylinder. Stand to one side of the cylinder. Open the cylinder valve slightly for an instant, and then close it. This “cracking” of the cylinder valve will clean the valve of dust or dirt which may have accumulated during storage. Dirt can damage critical parts of a regulator, and may cause a fire or explosion.

Before a regulator is removed from a cylinder valve, the valve shall be closed and the gas released from the regulator.

An acetylene cylinder valve shall not be opened more than one and one-half turns of the spindle. This permits adequate flow of acetylene and allows ready closing of the valve in an emergency.

Hose and Hose Connections

The operator must use the proper hose. Fuel gas hose is usually red (sometimes black) and has a left-hand threaded nut for connecting to the torch. Oxygen hose is green and has a right-hand threaded nut for connecting to the torch.

Hose and hose connections shall be clamped or otherwise securely fastened in a manner that will withstand, without leakage, twice the pressure to which they are normally subjected in service, but in no case less than a pressure of 300 psi. Oil-free air or an oil-free inert gas shall be used for the test.

Pressure-Reducing Regulators

Pressure-reducing regulators shall be used only for the gas and pressures for which they are intended. When regulators or parts of regulators, including gages, need repair, the work shall be performed by skilled mechanics who have been properly instructed. Most production shops do not have the proper equipment to make repairs. For any equipment repairs or if there are questions about performance reliability, contact the manufacturer.

Gages on oxygen regulators shall be marked “USE NO OIL.”

Arc Welding and Cutting

Welding equipment shall be chosen for safe application to the work to be done.

Employees designated to operate arc-welding equipment shall be properly instructed and qualified to operate such equipment.

Employees assigned to operate or maintain arc-welding equipment shall be trained by the Safety Director or Superintendent on the requirements of arc welding and with 1910.252(a), (b), and (c) of Subpart Q.

Silica Policy

Crystalline silica is a dangerous mineral. Scull Construction/SWS recognizes that exposure to silica dust can cause silicosis (a deadly lung disease) and may cause lung cancer. Scull Construction takes responsibility for protecting the safety and health of its employees.

The Occupational Silica Dust Control Program includes the following parts:

1. Hazard Identification
2. Worksite Air Monitoring
3. Employee Training
4. Housekeeping Procedures
5. Engineering Controls
6. Personal Hygiene
7. Personal Protective Equipment
8. Medical Examinations and Evaluation
9. Record Keeping
10. Emergency First Aid Procedures for Silica Dust
11. Spill and Disposal Procedures

Part 1: Hazard Identification

Scull Construction/SWS recognizes that the following job/task can produce silica dust at our workplace. (Sandblasting, concrete cutting, determine hazards for each job site) The competent person on site will

be the jobsite superintendent for Scull Construction or Site Work Specialists.

- *Concrete Cutting*
- *Sanding drywall*
- *CMU Demolition*
- *Drywall/Building demolition*
- *Concrete joint cutting*
- *Hammer drilling*
- *Floor grinding*
- *Concrete demo*

When any of these jobs/tasks are performed by a worker employed by Scull Construction or SWS they will be protected by the Occupational Silica Dust Exposure Control Program.

Part 2. Worksite Monitoring

When a job/task is identified as a silica dust hazard the process and the worker's breathing zone will be monitored for silica dust concentrations. Employee exposure measurements must represent actual breathing zone exposure conditions for each employee.

Each job/task identified in part one will be monitored every four months and whenever a change is made to the process. Engineering controls will be monitored immediately after implementation and quarterly thereafter.

Employees will be able to view all air monitoring records; copies of the records can be found at Scull Construction's office. Doug Krull; safety director is responsible for the worksite monitoring program.

Part 3. Employee Training

All employees working in the job/tasks identified in part one are required to complete a training course prior to working in the exposure area. Workers will be trained when first assigned to the job/task and annually thereafter.

Training for the Occupational Silica Dust Exposure will include the following topics:

1. Health hazards of silica dust exposure (including signs and symptoms of silicosis).
2. Operations and materials that can produce silica dust exposure.
3. Engineering and work practice controls used to protect them from exposures.
4. The importance of proper equipment and control maintenance.
5. Housekeeping procedures.
6. Proper use of respirators and the respirator standard.
7. Personal Hygiene procedures to reduce exposures.
8. How smoking increases the risk of developing silicosis and other lung damage.
9. The details of the Occupational Silica Dust Exposure Control Program.

Training will be performed by Doug Krull; Safety Director. Records of attendance, dates of training, and training materials will be documented and located at Scull Construction's office. Additional training or reference material on silica dust exposure will be made available upon request to employees.

Part 4. Housekeeping Procedures

Dry sweeping and the use of compressed air are prohibited for removing dust in jobs/task identified in part one. Work areas and equipment covered by dust will be cleaned at the end of every shift by using a HEPA filter vacuum. Wet clean up may also be used to remove dust.

Waste materials will be stored and will be removed at least weekly.

Supervisors are responsible for ensuring that work areas are free from dust at the end of each shift.

Part 5. Engineering Controls

Scull Construction/SWS will use engineering controls whenever possible to control silica dust exposures. Ventilation systems will be inspected and maintained by the jobsite superintendent.

Ventilation systems will be checked at least weekly to determine if they are functioning properly. Scull Construction will not use abrasives that contain more than 1% crystalline silica during blasting options. Jobsite superintendents are responsible for inspecting and maintaining engineering controls on all jobs.

Scull Construction will also implement the following engineering controls based on OSHA's Table 1 of the new standard:

Part 6. Personal Hygiene

Employees working at the job/tasks identified in part one will change out of contaminated clothing and work boots before leaving the jobsite. Contaminated clothing will be vacuumed with the HEPA filter vacuum to remove silica dust. Vacuums will be located at jobsite trailers.

When worksites are located in the field away from normal operation, Scull Construction will provide portable containers to hand washing.

Employees will not eat, smoke, or use smokeless tobacco in the areas identified in part one.

Part 7. Personal Protective Equipment

When respirators are required to protect employees for silica dust exposure, the Scull Construction Respirator Program will be strictly followed. Copies of the Respirator Program are located at Scull Construction's office.

Part 8. Medical Surveillance

Any workers working in jobs/tasks identified in part one will be given medical examinations to prevent the development of silicosis if they are wearing a respirator for more than 30 days during a year.

Medical examinations must include:

- Chest X-rays
- Pulmonary function tests
- Tuberculosis evaluation.

Employees whose chest X-rays show changes consistent with the development of silicosis are customarily removed from job/tasks that expose them to silica dust. Input from the attending physician will be considered in making this decision.

Medical records will be made available at Scull Construction's office.

Part 9. Recordkeeping

All training, medical records, air monitoring, engineering control maintenance records, and injury records will be kept and located at Scull Construction's office. Doug Krull; safety director is responsible for the recordkeeping program.

Part 10. Emergency First Aid Procedures for Silica Dust

1. Eye Exposure

If crystalline silica dust gets into the eyes, wash immediately with large amounts of water, lifting the lower and upper lids occasionally. If irritation is present after washing, get medical attention. Portable eyewashes will be kept at jobsites in the field away from the company locations.

2. Breathing

If a person breathes in large amounts of crystalline silica dust, move the exposed person to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep the affected person warm and at rest. Get medical attention as soon as possible.

Part 11. Spill and Disposal Precautions

If crystalline silica is spilled or released in hazardous concentrations, the following steps must be taken:

1. Ventilate the area of the spill or release.
2. Persons doing the clean-up are required to wear appropriate respirators.
3. Collect spilled material in the most convenient and safe manner for reclamation or disposal in a secured sanitary landfill.