# SPN ASSOCIATES ENGINEERS & SURVEYORS

### Schmucker, Paul, Nohr and Associates

2100 North Sanborn Blvd — PO Box 398 Mitchell SD 57301-0398 Phone (605) 996-7761 Fax (605) 996-0015 www.spn-assoc.com

November 29, 2023

**RE: 23<sup>RD</sup> AVENUE LIFT STATION** 

MITCHELL, SOUTH DAKOTA

SPN #15994

BID LETTING: THURSDAY, DECEMBER 7, 2023 @ 1:30 PM

## ADDENDUM NUMBER 1

The following modifications are to be made to the plans and specifications for the 23<sup>rd</sup> Avenue Lift Station Project.

# Section 30 31 00, Sanitary Sewer Piping, Paragraph 1.05 shall be modified by adding the following:

- I. Tracer wire will not be measured. Payment for tracer wire will be incidental to the sewer service piping and force main. All fasteners splice kits and other appurtenances shall also be considered incidental. Tracer wire shall be green for force main and shall be as specified in Section 33 14 17, Paragraph 2.09.
- J. Tracer wire access boxes and grounds will be measured on a per each basis. Payment for tracer wire access boxes and grounds will be on the basis of each tracer box or ground installed as called for on the Bid Form. Tracer wire, PVC conduit, wire fasteners, splice kits, adjusting to grade and other appurtenances shall be considered incidental to tracer wire access boxes. Tracer wire grounds shall be as specified in Section 33 14 17, Paragraph 2.09. Tracer wire access box shall be suitable for flush burial with a 5 inch tall cast iron top, integral brass terminals and a minimum 12 inch long ABS bottom section. Lid for tracer wire access box shall be dual terminal. Tracer wire box shall be intended for traffic. Tracer wire access box shall be Copperhead Industries Snakepit Roadway or approved equal. All tracer wire shall be tested by the Contractor upon completion of the pipe installation and backfilling.

#### Plan Sheet 8:

A steel step shall be added on the exterior of the dry pit access tube above ground level.

### Plan Sheets E1 through E4:

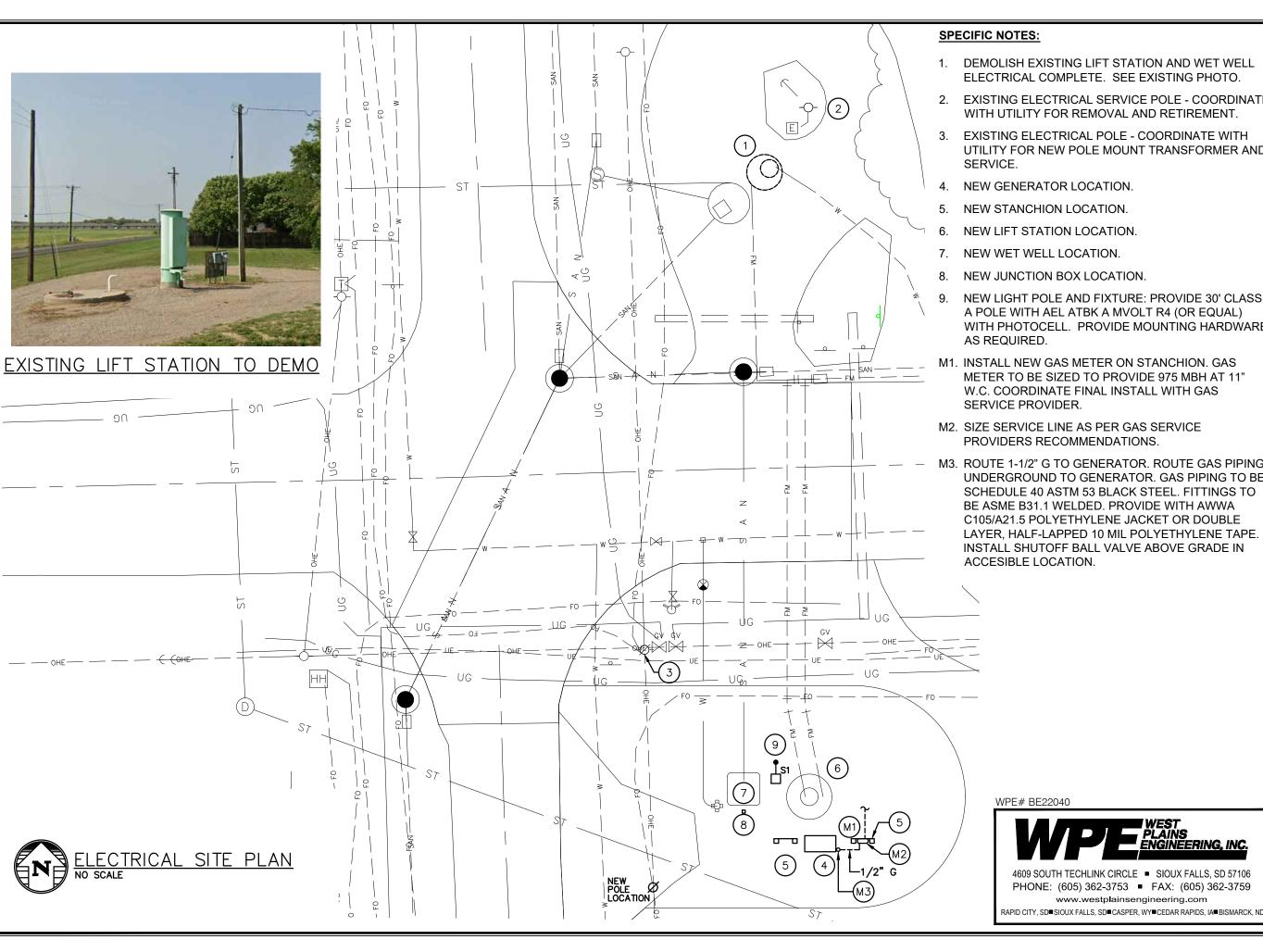
The plan sheets were inadvertently excluded and are part of this addendum.

All other items of the plans and specifications remain unchanged.

	Camden A. Hofer Project Engineer Schmucker, Paul, Nehr & Associates
The undersigned hereby ac specifications for the MITCH	knowledges receipt of Addendum Number 1 to the plans and HELL 23 <sup>RD</sup> AVENUE LIFT STATION.
	FIRM NAME
	BY

ATTACH THIS SIGNED ADDENDUM NO. 1 TO THE BID FORM WHEN SUBMITTING.

DATE

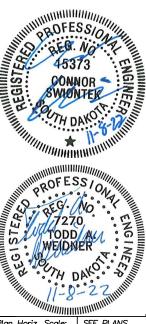


- 1. DEMOLISH EXISTING LIFT STATION AND WET WELL ELECTRICAL COMPLETE. SEE EXISTING PHOTO.
- 2. EXISTING ELECTRICAL SERVICE POLE COORDINATE WITH UTILITY FOR REMOVAL AND RETIREMENT.
- 3. EXISTING ELECTRICAL POLE COORDINATE WITH UTILITY FOR NEW POLE MOUNT TRANSFORMER AND
- 4. NEW GENERATOR LOCATION.
- 5. NEW STANCHION LOCATION.
- NEW LIFT STATION LOCATION.
- 7. NEW WET WELL LOCATION.
- NEW JUNCTION BOX LOCATION.
- NEW LIGHT POLE AND FIXTURE: PROVIDE 30' CLASS A POLE WITH AEL ATBK A MVOLT R4 (OR EQUAL) WITH PHOTOCELL. PROVIDE MOUNTING HARDWARE
- M1. INSTALL NEW GAS METER ON STANCHION. GAS METER TO BE SIZED TO PROVIDE 975 MBH AT 11" W.C. COORDINATE FINAL INSTALL WITH GAS SERVICE PROVIDER.
- M2. SIZE SERVICE LINE AS PER GAS SERVICE PROVIDERS RECOMMENDATIONS.
- M3. ROUTE 1-1/2" G TO GENERATOR. ROUTE GAS PIPING UNDERGROUND TO GENERATOR. GAS PIPING TO BE SCHEDULE 40 ASTM 53 BLACK STEEL. FITTINGS TO BE ASME B31.1 WELDED. PROVIDE WITH AWWA C105/A21.5 POLYETHYLENE JACKET OR DOUBLE LAYER, HALF-LAPPED 10 MIL POLYETHYLENE TAPE. INSTALL SHUTOFF BALL VALVE ABOVE GRADE IN ACCESIBLE LOCATION.



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Plan Horiz. Scale:	SEE PLANS			
Drawn By:	DV			
Checked By:	TW			
Date:	11-08-2022			
Project No.:	15994			

Project Name:

23rd Ave. Lift Station

Located in: Mitchell, South Dakota

Sheet Name:

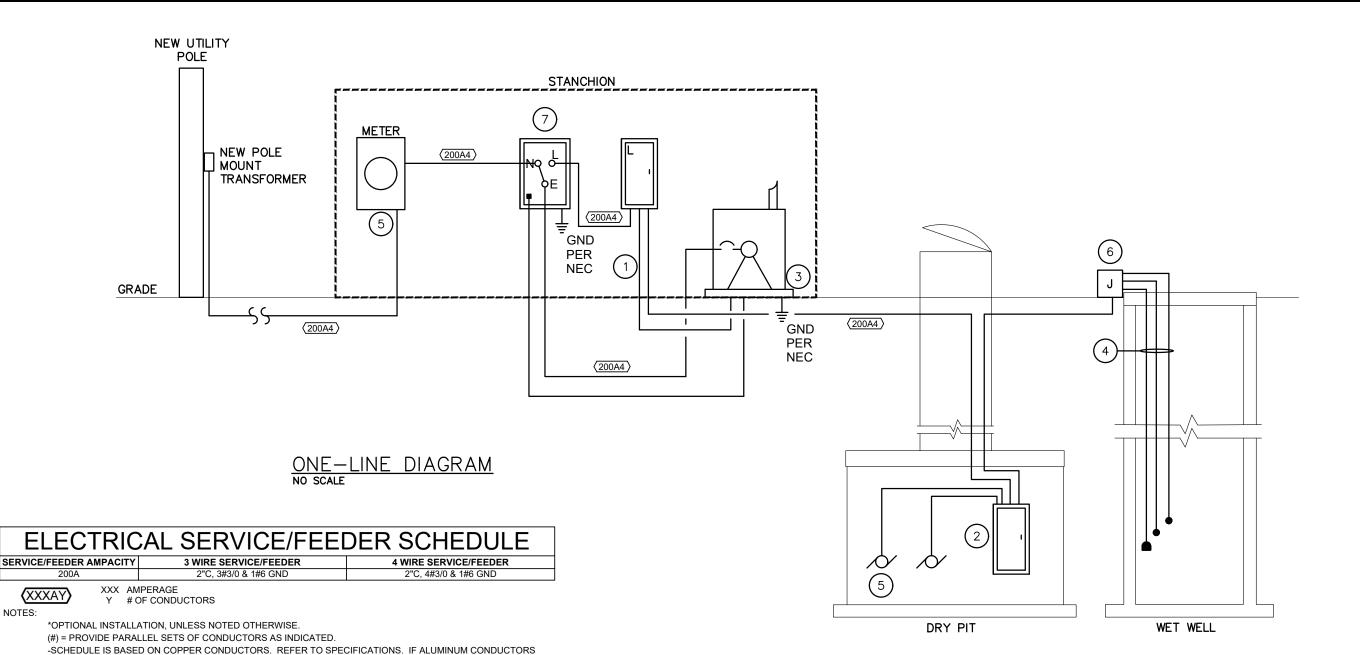
Electrical Site Plan

Sheet Number:

Total Sheets: E1

WPE# BE22040

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**ELECTRICAL RISER NOTES** 

1. CONDUIT AND WIRE FOR GENERATOR HEATER AND BATTERY CHARGER CIRCUIT. COORDINATE WITH MANUFACTURER FOR REQUIREMENTS.

ARE ALLOWED, CONTRACTOR IS RESPONSIBLE FOR CONDUCTOR AND CONDUIT SIZING.

-SERVICE ENTRANCE CONDUCTORS SHALL NOT REQUIRE GROUNDING CONDUCTOR.

LIFT STATION PANEL BY OTHERS. COORDINATE CONNECTION TYPE AND LOCATION WITH VENDOR. DRY PIT IS PREWIRED INTERNALLY.

- 3. NEW GENERATOR BY EC SEE SCHEDULE.
- INSTALL LEVEL TRANSDUCER AND TWO LEVEL SWITCHES IN THE WET WELL. PROVIDE 2, 1" CONDUITS WITH SEAL OFFS FOR CONDUIT RUNS FOR INSTALLATION IN THE HAZARDOUS LOCATION. PROVIDE CONTROL CONDUIT & WIRE TO TRANSITION FROM FACTORY CABLING AT JUNCTION BOX.
- UTILITY METER, COORDINATE ALL SERVICE REQUIREMENTS WITH UTILITY (UTILITY CO., CONTACT: ISAAC HARWOOD (605) 995-4438). ELECTRICAL CONTRACTOR OR OWNER IS RESPONSIBLE FOR COSTS FROM THE UTILITY ASSOCIATED WITH THE SERVICE AT THE BUILDING. PROVIDE METER SOCKET PER UTILITY REQUIREMENTS.
- 6. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING JUNCTION BOX, UNI-STRUT RACK FOR MOUNTING, CONDUITS & WIRING FROM THE LIFT STATION POWER CONTROL PANEL (PCP) TO THE JUNCTION BOX. PROVIDE INSTALL FACTORY CABLING FROM THE JUNCTION BOX TO EQUIPMENT IN WET WELL. PROVIDE EXPLOSION PROOF SEAL-OFFS AS REQUIRED BY NEC . PROVIDE POWER CONDUIT & WIRE TO TRANSITION FROM FACTORY CABLING AT JUNCTION BOX
- 7. NEW TRANSFER SWITCH BY EC SEE SCHEDULE.

WPF# BF22040



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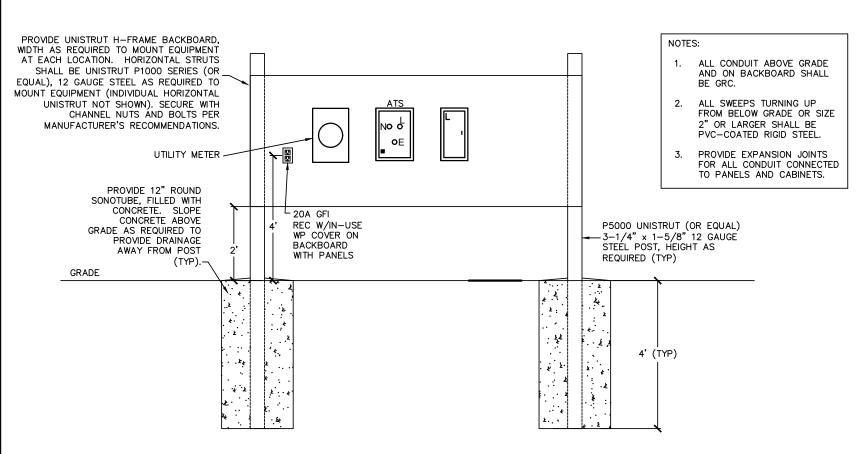
Plan Horiz. Scale: SEE PLANS DV Drawn By: Checked By: 11-08-2022 Date: Project No.: 15994

> Project Name: 23rd Ave. Lift Station

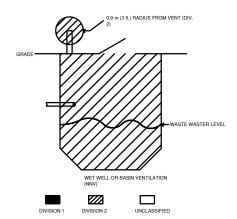
Located in: Mitchell, South Dakota

Sheet Name: Electrical Riser

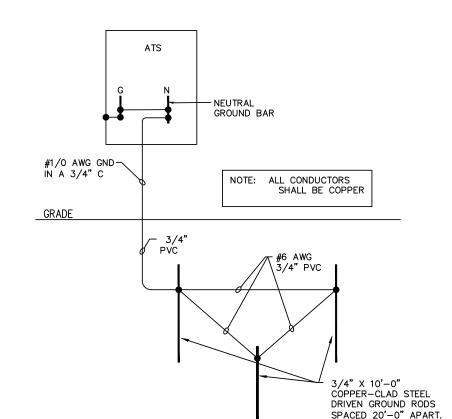
Total Sheets: Sheet Number:



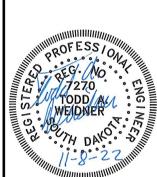
STANCHION DETAIL
NO SCALE



WET WELL HAZARDOUS LOCATIONS
NO SCALE



GROUNDING ELECTRODE DIAGRAM
NO SCALE



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Plan Horiz. Scale: SEE PLANS

Drawn By: DV

Checked By: TW

Date: 11-08-2022

Project No.: 15994

Project Name: 23rd Ave.

Lift Station

Mitchell,
South Dakota

Sheet Name:
Electrical Details

Sheet Number:

Total Sheets:



RAPID CITY, SD■SIOUX FALLS, SD■CASPER, WY■CEDAR RAPIDS, IA■BISMARCK, ND

GENERATOR SCHEDULE										
ATS#	FUEL TY PE	VOLT/ PHA SE		KW KVA		CIRCUIT BREAKER(S)	FEATURES	BNCLOSURE TYPE	COMMENTS	
GEN-1	NATURAL GAS	208	3	54	68	200A LSI	LSI	SK, LB, CWP		

 $\textit{FEATURES:} \qquad \textit{LSI} = \textit{LONG TIME PICKUP, L;} \textit{ONG TIME DELAY, SHORT TIME PICKUP, SHORT TIME DELAY/INSTANTANEOUS}$ 

CWP = COLD WEATHER PACKAGE SPP = SHORE POWER PANELBOARD IN ENCLOSURE LB = LOAD BANK BREAKER THERMAL MAG FTXX = HOURS OF RUN TIME FOR FUEL TANK

WIE = WALK IN ENCLOSURE

SK = SKIN TIGHT FACTORY ENCLOSURE

ANN = REMOTE ANNUNCIATOR

CC = CUSTOM COLOR

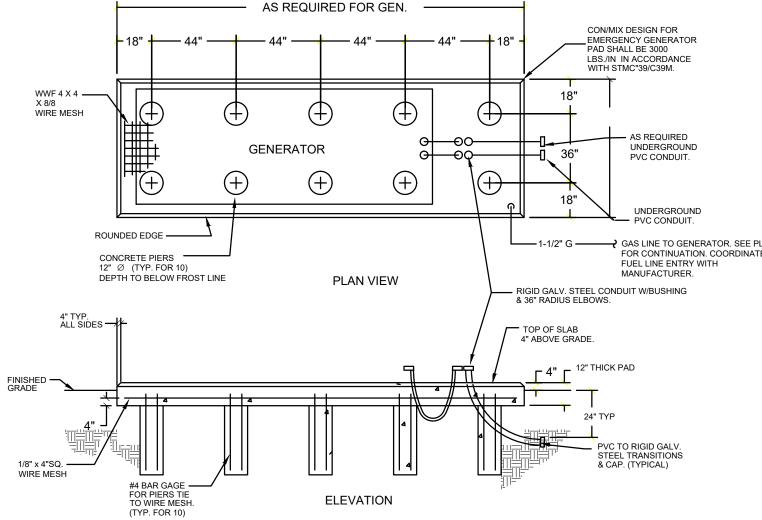
CM = CRITICAL SOUND MUFFLER PACKAGE

EPO = EMERGENCY POWER OFF SWITCH - REMOTE MOUNTED

GENERAL:

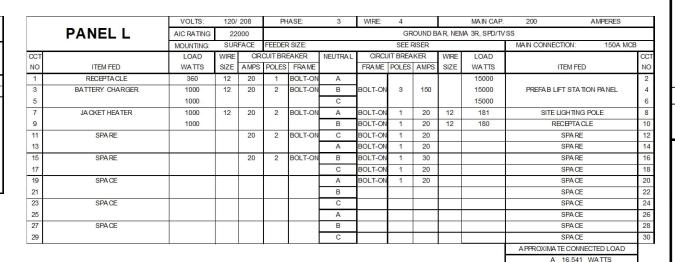
PROVIDE CONCRETE PAD PER DETAIL AND MANUFACTURES REQUIREMENTS

AUTOMATIC TRANSFER SWITCH SCHEDULE										
ATS#	TYPEUSE	VOLT/	POLE	A MPERA GE	SCCR	ENCLOSURE TYPE	SERVICE ENTRANCE RATING	FEA TURES	COMMENTS	
ATS	AUTOMA TIC	208	3	200	22,000	NEMA 3R	200A BREAKER	IL ES TD PC		
FEATURES:	SP = SWITCH POSITION CONTACTS IL = INDICATOR LIGHTS						TD = TIME DELAY TRANSFER (ADJUSTABLE)  (ENGINE START TIME DELAY: 0-30 MIN)  (TRANSFER TIME DELAY: 0-10 MIN)			
	MH = MECHANICALLY HELD ELECTRICALLLY OPERATED GFI = GROUND FAULT SENSING ES = BNGINE START CONTACTS PC = MICROPROCESSOR BASED CONTROL WITH DIGITAL DISPLAY									
GENERAL:	PROVIDE START/RUN SIGNAL WIRING AND CONDUIT TO GENERA TOR									



EMERGENCY GENERATOR PAD DETAIL

NO SCALE



WPE# BE22040

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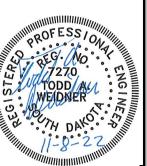
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SEE PLANS Plan Horiz. Scale: Drawn By: DV Checked By: ΤW 11-08-2022 Date: Project No.: 15994

Project Name: 23rd Ave.

Lift Station

Located in: Mitchell, South Dakota

Sheet Name: **Electrical Schedules** 

Total Sheets: Sheet Number:

