



September 25, 2024

Re: Claremont Storm Sewer Improvements
 Claremont, South Dakota
 Helms Project # A-9438

ADDENDUM NUMBER 1

The following modifications are made to the plans and specifications for the Claremont Storm Sewer Improvements Project.

CONSTRUCTION SPECIFICATIONS AND CONTRACT DOCUMENTS

1. Section 33 05 23.16 Utility Pipe Jacking, Section 2.04 Carrier Pipe, Remove and Replace with the following:

- A. The pipe material to be used shall meet ASTM D2241 and AWWA C900 standards for Polyvinyl Chloride pressure pipe and fittings with a dimension ratio of DR 25. All other pipe shall have the written approval of the ENGINEER and meet all submittal review as an optional approved product.
- B. The pipe shall be joined using separate PVC coupling with beveled edges or built-in sealing gaskets and restraining grooves. The restraining splines shall be square or rectangular, and made from Nylon 101.
- C. Exposed splines shall be cut flush to coupling to reduce soil drag.
- D. Couplings shall be beveled on leading edges to minimize soil friction.
- E. CONTRACTOR shall adhere to the pipe manufacturer’s most current calculations regarding tensile load limitations for trenchless application. This calculation shall be part of the required submittal. (See chart below)

AWWA C900 RJIB/RJ PVC Pipe

Size	Pipe O.D.	DR	Note	Pressure			Mi. Wall Thickness	Bell/ Coupling O.D.	Tightest Permissible Bend		Maximum Pull-In Force, lbf.
				Value psi	C900 Class	C905 Class			Radius, Ft.	% Change in Pitch per 20'	
18"	19.50	25	1	165		x	0.780	21.445	406	2.45	81,500
18"	19.50	25	2	165		x	0.780	20.870	406	2.45	97,000

Notes : 1. Integral Bell PVC Products (RJIB)
 2. PVC Coupling (RJ)

- F. CONTRACTOR shall adhere to the pipe manufacturer's most current calculations regarding tensile load limitations for trenchless application. This calculation shall be part of the required submittal. (See chart above)
- G. CONTRACTOR shall adhere to the pipe manufacturer's most current recommendations regarding radius of curvature used for trenchless application. This calculation for each bore shall be part of the required submittal prior to work. (See chart above)

2. Section 33 32 13.14 Simplex Storm Water Submersible Pump Lift Stations, *add the following to Part 2, Section 2.12:*

2.12 VARIABLE FREQUENCY DRIVE (ALTERNATE BID SCHEDULE 3 ONLY)

- A. Storm water pumping system supplied for Alternate Bid Schedule 3 (1,500 gpm pump) shall be equipped with Variable Frequency Drive (VFD) equipment. VFD equipment is NOT required for pumping systems supplied in Alternate Bids 1 and 2.
- B. Operating speed of the pump shall be controlled by variable frequency drive equipment, consisting of the following components:
 - 1. 240 VAC Variable Torque VFD
 - 2. 115 VAC Control Interface Card
 - 3. 115 VAC Control Power Transformer
 - 4. Hand/Off/Auto Selector Switch
 - 5. Human Interface Module, PLC, digital pot
- C. The variable frequency drive equipment shall be wall-mounted beside the power distribution panel. The VFD shall be in an enclosure rated NEMA-1.
- D. Variable frequency drives shall be Allen Bradley PowerFlex 400, Mitsubishi Series F700, Eaton DG1 or Engineer approved equal.
- E. The drives shall be supplied with 3% output filters for AC-PWM variable frequency drives. The line reactor shall improve the VFD performance, protect the drives input rectifier from failure or damage and tame the drive harmonic demands. The line reactors shall act as interface buffers between solid state power circuits and the line or the motor.

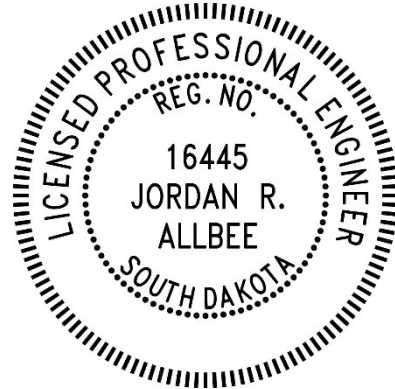
PLANS

SHEET 18; Pre-Cast Concrete Lid and Access Hatch Plan Note. Add the following text:

The Contractor shall furnish a new pre-cast concrete lift station lid with a 36" x 36" aluminum access hatch with locking door for the existing 60" diameter concrete structure. Please note: a larger diameter concrete lid may be required to accommodate the access hatch dimensions. The access hatch will be centered over the existing structure. The contractor shall ensure the structure is properly backfilled to support any overhang caused by a larger diameter concrete lid.

ALL OTHER ITEMS OF THE PLANS AND SPECIFICATIONS REMAIN UNCHANGED.

BY John Allen



PROJECT ENGINEER - HELMS AND ASSOCIATES

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FIRM NAME: _____ BY: _____

TITLE: _____ DATE: _____

ATTACH THIS SIGNED ADDENDUM TO THE BID FORM WHEN SUBMITTING AND/OR ACKNOWLEDGE THE ADDENDUM ON THE BID FORM.