



ENGINEERING DEPARTMENT

Civil/Traffic/Parking/Signal & Lighting/Sign and Pavement Marking

Daniel J. Moeglin, P.E., S.I., City Engineer

2436 -30th Street N.E. / Canton, Ohio 44705

PH (330) 489-3381 / FAX (330) 489-3337

ADDENDUM #3

February 10, 2015

TO: PROSPECTIVE BIDDERS

RE: **GP 1114 Allenford SE 72" Sanitary Sewer Protection Project**

Addendum #3 for bid opening scheduled for February 18, 2015. This addendum consists of four changes.

First Change:

Technical specification Section 02538, Sanitary Sewer System, issued in Addendum 2 has been revised. The revised (second revision) is attach.

Second Change:

The first paragraph in Instructions to bidders is being revised from

H. Completion Date and Liquidated Damages

1. Completion Date: The Contractor shall not start the work embraced in this contract before the date of a written Notice to Proceed from the City. Contractor is required to start work within 10 days after receiving the Notice to Proceed. Work shall be completed as per applicable sections in the General Conditions.

to read,

H. Completion Date and Liquidated Damages

1. Completion Date: The Contractor shall not start the work embraced in this contract before the date of a written Notice to Proceed from the City. Work shall be completed as per applicable sections in the General Conditions.

ADDENDUM #3 Continued

Third Change:

The Paragraph at the bottom of page 20 and top of page 21 shall be changed from,

The duration of this agreement for the completion of the work embraced in this contract shall be 9 Calendar Months from the Notice to Proceed date.

to read,

The duration of this agreement for the completion of the work embraced in this contract shall be 250 Calendar Days from the Notice to Proceed date.

Fourth Change:

Section 108 of the ODOT Construction Management and Materials Specifications will apply for this project except for alterations made within the bidbook.

Please sign this Addendum No. 3 at the bottom of this page as proof of receipt. Attach this addendum to the inside front cover of your submission. The Director reserves the right to accept or disqualify the bid if you do not include this addendum.

Respectfully,

Steven L. Henderson
City of Canton Construction Manager

BIDDERS AUTHORIZED SIGNATURE DATE

NAME / TITLE (Printed or Typed)

Attach.

SECTION 02538

SANITARY SEWER SYSTEM

PART 1 GENERAL

1.1 SUMMARY

A. This section includes the installation of 72" reinforced concrete pipe to replace existing pipe as shown on the plans. The project manual includes a subsurface exploration report by PSI, Inc. for reference.

B. Section Includes:

1. Sanitary sewage pipe.
2. Bedding and cover materials.

C. Related Sections:

1. Section 02980- Bypass Pumping
2. Section 02990- Manhole Lining
3. Section 31 66 13- Helical Piles and Helical Anchors
4. *Subsurface Exploration of Allenford Dr. Sewer Line Emergency Stabilization*, PSI, Inc., April 25, 2012 (in project manual).

1.2 UNIT PRICE - MEASUREMENT AND PAYMENT

A. Pipe and Fittings:

1. Basis of Measurement: By the linear foot.
2. Basis of Payment: Includes excavation, bedding, pipe and fittings, and reconnection to existing sanitary sewer.

1.3 REFERENCES

A. American Association of State Highway and Transportation Officials:

1. AASHTO T180 - Standard Specification for Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop.

B. ASTM International:

1. ASTM C76 - Standard Specification for Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe
2. ASTM C443 - Standard Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets
3. ASTM D698 - Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³))
4. ASTM C969- Standard Practice for Infiltration and Exfiltration Acceptance Testing of Installed Precast Concrete Pipe Sewer Lines
5. ASTM C1103- Standard Practice for Joint Acceptance Testing of Installed Precast Concrete Pipe Sewer Lines

6. ASTM D1557 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN-m/m³)).
7. ASTM D2922 - Standard Test Method for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth).
8. ASTM D3017 - Standard Test Method for Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth).

1.4 SUBMITTALS

- A. Provide submittals as required by Owner.
- B. Product Data: Submit data indicating pipe material used, pipe accessories, and bedding and backfill.
- C. Manufacturer's Installation Instructions: Indicate special procedures required to install Products specified.
- D. Manufacturer's Certificate: Certify products meet or exceed specified requirements.

1.5 CLOSEOUT SUBMITTALS

- A. Project Record Documents: Record location of pipe runs, connections, and invert elevations according to City's Geographic Information Systems (GIS).

1.6 QUALITY ASSURANCE

- A. Perform Work in accordance with Ohio Department of Transportation (ODOT) and City of Canton standards.

1.7 PRE-CONSTRUCTION MEETINGS

- A. Convene minimum one week prior to commencing work in this section.

1.8 FIELD MEASUREMENTS

- A. Verify field measurements and elevations as indicated on the plans.

1.9 COORDINATION

- A. Coordinate the Work with the City for the reconnection to existing sanitary sewer and trenching.

PART 2 PRODUCTS

2.1 SANITARY SEWAGE PIPE

- A. Reinforced Concrete Pipe: ASTM C76, Class IV with Wall Type B; bar reinforcement; inside nominal diameter of 72 inches, bell and spigot ends.
 1. Fittings: Reinforced concrete.

2. Joints: ASTM C443, rubber compression gasket.

2.2 BEDDING AND COVER MATERIALS

- A. Bedding: According to Canton's Standard Drawing No.19.
- B. Cover: According to Canton's Standard Drawing No. 19.
- C. Soil Backfill from Above Pipe to Finish Grade: According to Canton's Standard Drawing No. 19.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verification of existing conditions before starting work.
- B. Verify trench is ready to receive work and excavations, dimensions, and elevations are as indicated on drawings.

3.2 PREPARATION

- A. Correct over excavation with coarse aggregate.
- B. Remove large stones or other hard matter which could damage pipe or impede consistent backfilling or compaction.

3.3 BEDDING

- A. Excavate pipe trench in accordance with Canton's Standard Drawing No. 19.
- B. Place bedding material at trench bottom, level materials in continuous layer in accordance with Canton's Standard Drawing No.19.
- C. Maintain optimum moisture content of bedding material to attain required compaction density.

3.4 INSTALLATION - PIPE

- A. Install pipe, fittings, and accessories in accordance with manufacture's recommendations. Seal joints watertight.
- B. Lay pipe to slope gradients noted on drawings.
- C. Install bedding at sides and over top of pipe according to Canton's Standard Drawing No.19.
- D. Install concrete caps under pipe as shown on plans.
- E. Install helical piles under concrete caps as shown on plans and Section 31 66 13.

F. Install Work in accordance with State and City standards.

3.5 FIELD QUALITY CONTROL

A. Joint Test: Test in accordance with ASTM C1103, latest edition.

B. Request inspection prior to and immediately after placing bedding.

C. Compaction Testing: In accordance with ODOT

D. When tests indicate Work does not meet specified requirements, remove work, replace and retest.

3.6 PROTECTION OF FINISHED WORK

A. Protect pipe and aggregate cover from damage or displacement until backfilling operation is complete.

3.7 SCHEDULE

A. Sanitary Sewer: See anticipated construction schedule on plans

END OF SECTION