



Invitation for Bid No. 2024-066

Helmsville Road Force Main Improvements

ADDENDUM #1

ISSUE DATE: March 11, 2024

Responding Bidders on this project are hereby notified that this Addendum shall be made a part of the above named IFB document.

The following items add to, modify, and/or clarify the IFB documents and shall have the full force and effect of the original Documents. This Addendum shall be acknowledged by the Offeror in the IFB document.

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Union County, NC
Helmsville Road Force Main Improvements
Project Number: SW115

ADDENDUM #1

ISSUE DATE: March 11, 2024

TO ALL BIDDERS:

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents.

Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may disqualify the Bidder.

Below are changes, additions, and/or clarifications to the bid documents for this project.

Specifications

- Item 1: Project Manual: Section 01025, Measurement and Payment, 1.4.F.4.c. – Replace the statement with the following statement: “Furnishing and installing specials including bulkheads, anti-seep collars, and outlets not otherwise provided for in the Bid Form”. Change entails inclusion of installation and payment for anti-seep collars as part of the pay item.
- Item 2: Project Manual: Section 15114, Miscellaneous Valves – Remove Section 15114 and replace with the attached Section 15114. Change entails revision of acceptable air release valves. The revised specification is denoted with “REVISED” in the footer.

Drawings

- Item 1: Plans: Sheet D-01, Standard Details – Replace Detail 4, “Air Release” with the attached Detail 4R, “Air Release – Revised”. Changes entail updated connection of the air release and ball valve to the force main, and changes to the air release manhole.

This addendum and all associated specifications sections and revised Contract Documents will be uploaded to the online plan room and distributed to registered plan holders via email.

Receipt of this addendum must be acknowledged on Page 1 of EJCDC C-410 – Bid Form.

Sincerely,



Michael S. Caldwell, P.E.
Project Manager
Union County Government

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END OF ADDENDUM #1

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SECTION 15114
MISCELLANEOUS VALVES
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1 SECTION 15114

2 MISCELLANEOUS VALVES

3 PART 1 – GENERAL

4 1.1 SUMMARY

5 A. Section Includes:

- 6 1. Combination vacuum relief/air release valves.
7 2. Plug valves.

8 B. Related Sections include but are not necessarily limited to:

- 9 1. Division 0 - Bidding Requirements, Contract Forms, and Conditions of the Contract.
10 2. Division 1 - General Requirements.
11 3. Section 15100 - Valves: Basic Requirements.

12 1.2 QUALITY ASSURANCE

13 A. Referenced Standards:

- 14 1. American Gas Association (AGA).
15 2. American Water Works Association (AWWA):
16 a. A240 316L SS, Body, Flanges, Hardware, Trim, Venting Orifices
17 b. C111, Mechanical Joint
18 c. C512, Air-Release, Air/Vacuum, and Combination Air Valves for Waterworks Service.
19 d. C550, Protective Epoxy Interior Coatings for Valves and Hydrants.

20 1.3 SUBMITTALS

21 A. Shop Drawings:

- 22 1. See Section 15100.

23 B. Operation and Maintenance Manuals:

- 24 1. See Section 01340.

25 PART 2 – PRODUCTS

26 2.1 ACCEPTABLE MANUFACTURERS

27 A. Subject to compliance with the Contract Documents, the manufacturers listed under the specific
28 valve types are acceptable.

29 B. Submit requests for substitution in accordance with Section 01640 - Product Substitution.

30 2.2 AIR RELEASE VALVES

31 A. General:

- 32 1. Conform to AWWA C512.

33 B. Air Release Valve:

- 34 1. Acceptable manufacturers:
35 a. Vent-Tech, Model SDG, Series C, 2 IN.
36 2. Types:
37 a. Designed for wastewater applications.
38 b. Valve body shall be tubular in design with direct-acting cylindrical hollow and solid float
39 mechanisms.
40 c. Valve designs employing hinges, levers, or ball-type floats are prohibited.
41 3. Materials:
42 a. Body: Type 316L stainless steel.
43 b. Flanges: Type 316L stainless steel.
44 c. Surge Float: UHMW-PE. HDPE not accepted.
45 d. Nozzle Float: UHWM-PE. HDPE not accepted.
46 e. Control Float: UHWM-PE.

- 1 4. Design requirements:
2 a. Working pressure: less than 1 psi to 145 psi or greater.
3 b. Valves shall provide compatibility with threaded or flanged connections to specified
4 piping systems.
5 c. Air inlet opening shall have a cross-sectional area greater or equal to the nominal size of
6 the valve.
7 d. Valve shall be designed to form an airtight seal at an internal pressure of less than 1 psi.
- 8 C. Plug Valve
9 1. Acceptable manufacturers:
10 a. DeZurik.
11 2. Design requirements:
12 a. Eccentric plug valve.
13 b. Mechanical joint ends.
14 c. Working pressure: 175 psi maximum.
15 d. Non-lubricated with a plug facing of a material specifically recommended by the valve
16 manufacturer for the indicated service.
17 e. Stainless steel permanently lubricated upper and lower plug stem bearings.
18 f. Valve seat shall be nickel.
19 g. Valve shall be designed with adjustable seals that are replaceable without removing the
20 bonnet.
21 h. Bearing and seal area shall be protected with grit seals.
22 i. Valves shall be factory epoxy coated.
23 j. Area of port opening shall be no less than 81% of full pipe area.
24 k. Bi-directional shutoff is required.
25 3. Operation:
26 a. 2-inch square operating nut.
27 b. Gearing in enclosed gear case.
28 c. Valve shall be designed with adjustable seals that are replaceable without removing the
29 bonnet.
30 d. Bearing and seal area shall be protected with grit seals.
31 e. Valves shall be factory epoxy coated.
32 f. Area of port opening shall be no less than 81% of full pipe area.
33 g. Bi-directional shutoff is required.

34 2.3 ACCESSORIES

- 35 A. Furnish any accessories required to provide a completely operable valve. See Drawings for
36 complete air valve assembly.

37 2.4 FABRICATION

- 38 A. Completely shop assemble unit including any interconnecting piping.

39 2.5 MAINTENANCE MATERIALS

- 40 A. Provide one set of any special tools or wrenches required for operation or maintenance for each
41 type of valve.

42 PART 3 – EXECUTION

43 3.1 INSTALLATION

- 44 A. General:
45 1. See Section 15100 - *Valves: Basic Requirements*.
- 46 B. Air Valves:
47 1. Install in bottomless concrete manhole.
48 2. Provide wall brackets or other method for stability and balance as needed.
49 3. Pipe exhaust to a suitable disposal point in manhole.
- 50 C. Plug Valves:
51 1. Mechanical joint ends.
52 2. Provide Union County valve box and concrete ring or incorporate box into concrete slab.

1 **3.2 FIELD QUALITY CONTROL**

2 A. Clean, inspect, and operate valves to ensure all parts are operable and valve seats properly.

3 B. Check and adjust valves and accessories in accordance with manufacturer's instructions and place
4 into operation.

5

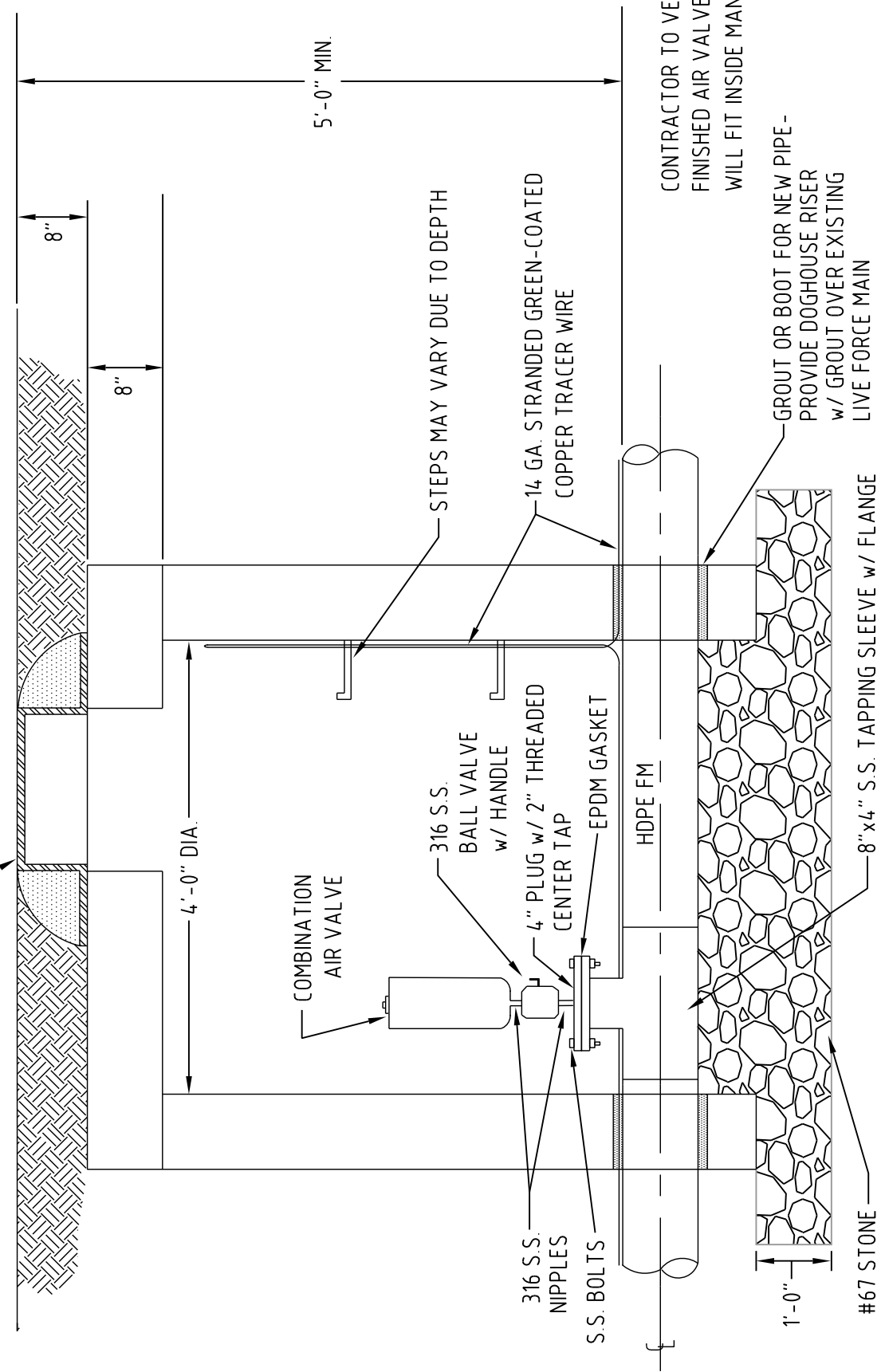
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END OF SECTION

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DEWEY BROTHERS MANHOLE 2001
 FRAME & COVER OR APPROVED EQUAL

APPROVED VALVES	SEWER
VENT-TECH	2" SDG



STANDARD DETAIL

UNION COUNTY PUBLIC WORKS DEPARTMENT
 UNION COUNTY, N.C.

AIR RELEASE - REVISED

SCALE:
 N.T.S.
 DATE:
 10-4-11

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