

# **Pelican Ridge Boulevard Water Main Replacement**

## **Special Conditions Measurement & Payment Bid Tabulation**

For:

**Collier County Water Sewer District  
3339 Tamiami Trail East  
Naples, FL 34112**

Engineer:

**Agnoli, Barber & Brundage, Inc.  
7400 Trail Boulevard, Suite 200  
Naples, FL 34108**

**ABB PN #16-0037  
December 2019**



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## SECTION 01011

### PROJECT SUMMARY, SPECIAL CONDITIONS AND SCHEDULE

#### PART 1 GENERAL

##### 1.1 PROJECT DESCRIPTION

- A. This project consists of replacement of an 8" Asbestos Cement potable water distribution main with a new 8" PVC potable water main along Pelican Ridge Boulevard, replacement of services and meters within the Pelican Ridge Development, and replacement of services and abandonment of a water main located on the Walgreens frontage road north of Vanderbilt Beach Road.
- B. Permits required for this project include FDEP main extension and Collier County right of way. The FDEP permit has been obtained. The Collier County right of way permit application has been made, however it will need to be picked up by the selected contractor. Contractor will provide certified MOT plans to the right of way division prior to permit issuance.
- C. A cut in tee to the existing line in the Vanderbilt Beach Road median is proposed. Contractor will be responsible for coordination with the water division for any shutdown required.
- D. All disturbed areas will be restored to pre-construction or better condition.

##### 1.2 SPECIAL CONDITIONS

- A. The governing specifications for the construction of this work are listed on the plan cover sheet and include, but are not limited to, the FDOT utility accommodation guide, Collier County Right-of-Way Ordinance and Collier County Utility Standards Manual (USM). The relevant sections of the USM are not repeated in this document, and only those sections not included in the USM are provided herein if any.
- B. Due to the existence of various utilities and other facilities, the proposed main replacement will occur under pavement in Pelican Ridge Boulevard. Contractor is to assure that one lane of traffic is open at all times for local traffic movements.
- C. Portions of the work may require dewatering. Contractor is required to apply to SFWMD for a no notice dewatering permit if dewatering is needed.
- D. Contractor is required to maintain red line record drawings which detail all underground construction updated on a daily basis. This information will be provided to engineer upon completion. This is in addition to the surveyed record drawing requirement.

- E. All work within the Vanderbilt Beach Road right-of-way is to be coordinated with Collier County Right-of-Way division. Night work is a requirement for work in this area and a two week notice is required to the Water Division to schedule this work.
- F. Coordination of any shutdowns shall be made with all businesses along Pelican Ridge Boulevard and the Walgreens frontage road.
- G. Any required lane closure or sidewalk closure fees will be paid by the Water Division.
- H. Any Asbestos Cement pipe removed will be disposed of in accordance with Collier County Risk Management procedures.

### 1.3 SCHEDULE

- A. The project will commence upon notice to proceed (NTP) from the County and be in effect until completion of the project as follows:
  - 1. Substantial completion must be reached for all aspects of the project no later than one hundred and eighty (180) days from the issued Notice to Proceed.
  - 2. Final completion must be reached for all aspects of the project no later than two hundred ten (210) days from the issued Notice to Proceed.

END OF SECTION

## SECTION 012000

### MEASUREMENT AND PAYMENT

Applies only to Collier County Public Utilities Projects or Works and Utilities Portions of Collier County Transportation Projects, but not to Private Developments

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Explanation and Definitions
- B. Measurement
- C. Payment
- D. Schedule of Values

##### 1.2 EXPLANATION AND DEFINITIONS

- A. The following explanation of the Measurement and Payment for the Bid Schedule items is made for information and guidance. The omission of reference to any item in this description shall not, however, alter the intent of the Bid Schedule or relieve the CONTRACTOR of the necessity of furnishing such as a part of the Contract. Measurement and payment for all Contract items shall be made in accordance with this section or as modified by the Supplemental Terms and Conditions.

##### 1.3 MEASUREMENT

- A. The quantities set forth in the Bid Schedule are approximate and are given to establish a uniform basis for the comparison of bids. The COUNTY reserves the right to increase or decrease the quantity of any class or portion of the work during the progress of construction in accord with the terms of the Contract.

##### 1.4 PAYMENT

- A. Make payment for the items listed on the Bid Schedule on the basis of the work actually performed and completed, such work including but not limited to, the furnishing of all necessary labor, materials, equipment, transportation, clean up, restoration of disturbed areas, and all other appurtenances to complete the construction and installation of the work as shown on the drawings and described in the specifications.
- B. Unit prices are used as a means of computing the final figures for bid and Contract purposes, for periodic payments for work performed, for determining value of additions or deletions and wherever else reasonable.

## 1.5 SCHEDULE OF VALUES

- A. Approval of Schedule: Submit for approval a preliminary schedule of values, in duplicate, for all of the Work. Prepare preliminary schedule in accordance with the Supplemental Terms and Conditions. Submit preliminary schedule of values within 10 calendar days after the Effective Date of the Agreement. Submit final schedule of values in accordance with the Supplemental Terms and Conditions.
- B. Format: Utilize a format similar to the Table of Contents of the Project Specifications. Identify each line item with number and title of the major specification items. Identify site mobilization, bonds and insurance. Include within each line item, a direct proportional amount of CONTRACTOR's overhead profit.
- C. Revisions: With each Application for Payment, revise schedule to list approved Change Orders.

## PART 2 PRODUCTS

Not Used

## PART 3 EXECUTION

### 3.1 MEASUREMENT AND PAYMENT

- A. Make payment on the basis of work actually performed completing each item in the Bid, such work including, but not limited to, the furnishing of all necessary labor, materials, equipment, transportation, cleanup, and all other appurtenances to complete the construction and installation of the work to the configuration and extent as shown on the drawings and described in the specifications. Payment for each item includes compensation for cleanup and restorations. Cost of cleanup and surface restorations (including pavement replacement) will be considered as the percentage retained in accordance with the Contract Documents, and complete payment will not be made until cleanup, restorations and as-builts are completed.
  - 1. Furnish and Install Pressurized Pipelines: payment for furnishing and installing utility pipelines (various sizes and types) will be made at the Contract unit price per lineal foot for the pipe in place. This item includes clearing and disposal of trees and bushes, all necessary fittings, pipe coatings and linings, connections to existing mains, labor, equipment and materials for the furnishing and laying of the pipe, dewatering, compaction, pipe bedding, backfilling, sheeting, restrained joint piping, detectable tape, clamps, harnessing, plugs and caps, adapters, excavation of all material encountered, including rock, backfill, replacement of grass, sod, clearing and grubbing, landscaping, pavement, driveways, sidewalks, mailboxes, culverts, storm sewers, and other surface materials not specifically designated in the Bid, coordination with other contractors, stubs and valves for future connections to existing pipes, clean-up, disinfection and sterilization, temporary facilities for testing and tests. Measure pipe to the

nearest foot along the centerline including the lengths of manholes, valves and fittings. Measure lineal footage horizontally. Measure cuts from proposed grade to the invert elevation of the pipe. Pipe installed within casing pipe is included in this item.

2. Pipe abandonment in place and grouted will be measured in the same manner as pipe installation and payment made in accordance with the Contract unit price per linear foot.
3. Furnish and Install Valves and Boxes: Payment for furnishing and installing valves will be made at the appropriate Contract unit price per valve acceptably installed. This item includes the valve, valve box, vault or housing, concrete work, operators, incidentals, and all necessary labor, materials and equipment for installation, including valve stem, valve box extensions and adjustments. This item also includes the installation of base material below the valve in accordance with the detail shown in the Plans
4. Furnish and Install Air Release Valves: Payment for furnishing and installing air release valves will be made at the appropriate Contract unit price per air release valve acceptably installed. This item includes the valve, valve box, concrete work, operators, stems, incidentals, and all necessary labor, materials and equipment for installation including valve box extensions and adjustments. This item also includes the installation of base material below the valve in accordance with the detail shown in the Plans.
5. Furnish and Install Fire Hydrant Assemblies: Payment for the furnishing and installing of fire hydrant assemblies will be made at the Contract unit price for each fire hydrant assembly acceptably installed. This item includes the tee installed on the utility main, all necessary fittings, joint restraint from the valve to the tee, necessary piping from the tee to the hydrant location with the installation of barrel section to meet finished grade, control gate valve, valve box and any concrete work. Be responsible to set the hydrant to grade in accordance with the detail shown on the Plans.
6. Furnish and Install Cold Taps: Payment for furnishing and installing cold taps and valves will be made at the appropriate Contract unit price per tapping sleeve and valve acceptably installed. This item includes all piping, making pipe connections, tapping sleeve, valve and valve box, restrained joints, and all other work for a complete installation.
7. Furnish and Install Bacteriological Sample Points: Payment for furnishing and installing bacteriological sample points will be made at the appropriate Contract unit price per bacteriological sample point. This item includes value, tubing, fittings, enclosure, all concrete, removal of temporary sample point, and incidentals necessary for a complete installation as shown on the drawings and as specified herein.

8. Furnish and Install Water Services: Payment for furnishing and installing water services will be made at the appropriate Contract unit price for each polyethylene short side and long side service acceptably installed. This item includes all labor, equipment and materials for furnishing and installing all necessary pipe, fittings, connections, casing pipes, meter stops, meter box, tapping sleeves, protection of existing utilities and facilities, excavation, pipe bedding, dewatering, compaction, removal and replacement of grass, sod, shrubs, pavement, driveways, culverts and storm sewers, mailboxes, sidewalks and other surface materials not specifically designated in the Bid, cleanup, testing and all other work for a complete installation.
9. Remove and Replace Driveway: Payment for removing and replacing driveway will be made at the appropriate Contract Unit price per square yard of concrete or asphalt driveway shown on the Plans to be removed and replaced for water main construction. Replace driveways to match existing elevations and materials of construction. Include surface restoration required for driveway removal and replacement in this item.
10. Remove and Replace Street Pavement Surface and Base: Payment for removing and replacing street pavement surface and base will be made at the appropriate Contract unit price per square yard for pavement surface and base installed in the work. Replace all pavement surface and base in accordance with the Collier County Standard Details and details shown on the Plans.
11. Furnish and Install Pipeline Interconnection: Payment for furnishing and installing the pipeline interconnection will be made at the Contract lump sum price for the interconnection acceptably installed. This item includes all labor, equipment and materials to install all necessary pipe, fittings, connections, tapping sleeve and valve with valve box, field measurements, protection of existing facilities, excavation, pipe bedding, dewatering, compaction, surface restoration, testing, cleanup and all other work for a complete installation.
12. Backfill Compliance: Payments for backfill compliance will be made in the event that the excavated materials do not meet the requirements of the USM as suitable for backfill. Imported suitable backfill will be paid for at the contract unit price per cubic yard of material imported and will be based on truck tickets furnished with any par request. Payment will not be made without this backup documentation.
13. Pre/Post Video and Stills will be made at the contract unit price for each. No more than 50% of the contract unit price will be paid for the Pre video and stills. The remaining 50% will be paid upon completion of the work and subsequent video/stills.



14. Erosion Control will be paid for at the contract unit price. The contract price assumes that the erosion control measures will be maintained throughout the life of the project.
15. Maintenance of Traffic: Payment for maintenance of traffic in accordance with the COUNTY Maintenance of Traffic Policy will be made for at the Contract lump sum price.
16. Mobilization: Payment for mobilization will be made for at the Contract lump sum price.

END OF SECTION

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**BID TABULATION – INSTALLATION COSTS**

DESCRIPTION	QUANTITY	UNIT	UNIT COST \$	SUB TOTAL \$
<b>Pelican Ridge Blvd.</b>				
1.) Install 8" PVC DR14 WM*	2,926	LF		
2.) 8" Gate Valve*	13	EA		
3.) 16" Gate Valve (for 16" cut-in)*	2	EA		
4.) 2in Service Connections & Required Casing	22	EA		
5.) Permanent Sample Point*	1	EA		
6.) 16" x 16" x 8" Cut-In (Cold Tap)*	1	EA		
7.) 8" x 8" x 8" Cut-In (Cold Tap)*	1	EA		
8.) Fire Hydrant Assembly*	8	EA		
9.) Fire Line Services*	6	EA		
10.) Project Sign	2	EA		
11.) 1-1/2" Mill & Replace (Pelican Ridge Blvd)	7,537	SY		
12.) 1-1/2" Replace (Pelican Ridge Blvd)	684	TON		
13.) 1-1/2" Mill & Replace (Vanderbilt Beach Road)	1,665	SY		
14.) 1-1/2" Replace (Vanderbilt Beach Road)	151	TON		
15.) Select Backfill for Trench Compliance	1,250	CY		
16.) 8" AC WM Grout and Cap	2,985	LF		
17.) S.W. Pollution Prevention/Erosion Control	1	LS		
18.) Pre/Post Video & Driveway Stills	1	LS		
19.) MOT	1	LS		
20.) Mobilization/Demobilization	1	LS		
21.) Allowance (% of Total)	1	T&M		
<b>Sub-Total</b>				
<b>Pelican Ridge Community</b>				
1.) 4" PVC DR14*	176	LF		
2.) 2" Poly Tube*	76	LF		
3.) 8"x 2" Tapping Saddle*	10	EA		
4.) 8"x 4" Tapping Saddle*	5	EA		
5.) 2" Gate Valve*	10	EA		
6.) 4" Gate Valve*	5	EA		
7.) Pelican Ridge Service/Water Meter Replacement & Restoration**	15	EA		
8.) S.W. Pollution Prevention/Erosion Control	1	LS		
9.) Pre/Post Video & Driveway Stills	1	LS		
10.) Select Backfill for Trench Compliance	112	CY		
11.) Mobilization/Demobilization	1	LS		
12.) Allowance (% of Total)	1	T&M		
<b>Sub-Total</b>				
<b>Pelican Ridge Blvd. &amp; Pelican Ridge Community</b>				<b>Total</b>

\* Denotes Item Supplied by Collier County.

\*\* Meter & Backflow Supplied by Collier County

DESCRIPTION	QUANTITY	UNIT	UNIT COST \$	SUB TOTAL \$
<b>Walgreen's/Seasons 52 Site</b>				
1.) Install 2" PVC*	37	LF		
2.) Install 6" PVC*	82	LF		
3.) Install 8" PVC*	62	LF		
4.) 6" Gate Valve*	2	EA		
5.) 8" Gate Valve*	1	EA		
6.) 16" x 8" Hot Tap*	1	EA		
7.) 16" x 6" Hot Tap*	2	EA		
8.) Connect to & Restore Existing Services (5)	1	LS		
9.) Project Sign	2	EA		
10.) Select Backfill for Trench Compliance	80	CY		
11.) Abandon & Grout 8" PVC	321	LF		
12.) Remove 8" PVC	65	LF		
13.) S.W. Pollution Prevention/Erosion Control	1	LS		
14.) Pre/Post Video & Driveway Stills	1	LS		
15.) MOT	1	LS		
16.) Mobilization/Demobilization	1	LS		
17.) Allowance (% of Total)	1	T&M		
				<b>Sub-Total</b>
<b>Walgreen's/Seasons 52 Site</b>				<b>Total</b>

\* Denotes Item Supplied by Collier County.