



1112 Manatee Avenue West
Bradenton, FL 34205
purchasing@mymanatee.org

Solicitation Addendum

Addendum No.: 1
Solicitation No.: 21-TA003718AJ
Project No.: 6097880
Solicitation Title: Force Main 33A and 36A Replacements
Addendum Date: August 11, 2021
Procurement Contact: Abby Jenkins

IFBC 21-TA003718AJ is amended as set forth herein. Responses to questions posed by prospective bidders are provided below. This Addendum is hereby incorporated in and made a part of IFBC 21-TA003718AJ.

The deadline to submit all inquiries concerning interpretation, clarification or additional information pertaining to this IFBC was July 23, 2021.

CHANGE TO: ADVERTISEMENT PAGE, DATE, TIME AND PLACE DUE:

DATE, TIME AND PLACE DUE:

The Due Date and Time for submission of Bids in response to this IFBC is ~~August 17, 2021~~, **September 10, 2021, at 3:00 PM ET**. Bids must be delivered to the following location: Manatee County Administration Building, 1112 Manatee Ave. W., Suite 803, Bradenton, FL 34205 prior to the Due Date and Time.

CHANGE TO: SOLICITATION INFORMATION CONFERENCE:

~~No Solicitation Information Conference will be conducted for this solicitation. A Non-Mandatory Site visit will be held on August 17, 2021 @ 8:00 AM ET. Attendees will meet at the intersection of 26th Street W and 38th Ave West, Bradenton Florida. Attendance is not required but highly recommended.~~

CHANGE TO: SECTION A, INFORMATION FOR BIDDERS, ARTICLE A.01 BID DUE DATE

Change to Section A, Information for Bidders, Article A.01 Bid Due Date as follows:
The Due Date and Time for submission of Bids in response to this Invitation for Bid Construction (IFBC) is ~~August 17, 2021~~, **September 10, 2021, at 3:00 PM ET**. Bids must be

delivered to the following location: Manatee County Administration Building, 1112 Manatee Ave. W., Suite 803, Bradenton, FL 34205 and time stamped by a Procurement representative prior to the Due Date and Time.

CHANGE TO:

SECTION A, INFORMATION FOR BIDDERS, ARTICLE A.02 SOLICITATION INFORMATION CONFERENCE:

No Solicitation Information Conference will be conducted for this solicitation. A Non-Mandatory Site visit will be held on August 17, 2021 @ 8:00 AM ET. Attendees will meet at the intersection of 26th Street W and 38th Ave West, Bradenton Florida. Attendance is not required but highly recommended.

CHANGE TO:

SECTION A, INFORMATION FOR BIDDERS, ARTICLE A.43 BASIS OF AWARD, PARAGRAPH 3.

Only one (1) completion schedule for ~~270~~ 365 calendar days shall be submitted and considered.

CHANGE TO:

SECTION A, INFORMATION FOR BIDDERS, ARTICLE A.45 COMPLETION OF WORK

The Work will be completed and ready for final inspection within the specified calendar days from the date the Contract Time commences to run. Completion time shall be based on ~~270~~ 365 calendar days.

CHANGE TO:

SECTION A, INFORMATION FOR BIDDERS, ARTICLE A.51 SOLICITATION SCHEDULE

The following schedule has been established for this Solicitation process. Refer to the County's website (www.mymanatee.org > Business > *Bids & Proposals*) for meeting locations and updated information pertaining to any revisions to this schedule.

Scheduled Item	Scheduled Date
<u>Non-Mandatory Site Visit at the intersection of 26th Street W and 38th Ave West, Bradenton Florida.</u>	<u>August 17, 2021 @ 8:00 AM ET</u>
Question and Clarification Deadline	July 23, 2021
Final Addendum Posted	August 6, 2021 <u>August 11, 2021</u>
Bid Response Due Date and Time	August 17, 2021, <u>September 10, 2021,</u> <u>3:00 PM ET</u>

Due Diligence Review Completed	August 2021 <u>September 2021</u>
Projected Award	September 2021

REPLACE:

SECTION B, BID FORMS APPENDIX K BID PRICING FORM

Replace Appendix K, Bid Pricing Form with the Attachment Appendix K, Bid Pricing Form issued with this Addendum 1.

REPLACE:

ELECTRONIC BID PRICING FORM

Replace Electronic Bid Pricing Form with the Revised Electronic Bid Pricing Form included with this Addendum 1.

REPLACE:

BID ATTACHMENT 2, TECHNICAL SPECIFICATION, SECTION 01150 MEASUREMENT AND PAYMENT

Replace Bid Attachment 2, Technical Specification, Section 01150, Measurement and Payment with the Revised Bid Attachment 2, Technical Specification, Section 01150, Measurement and Payment issued with this Addendum 1.

REPLACE:

BID ATTACHMENT 3, CONSTRUCTION PLANS, PLAN SHEET NUMBERS G-103-1, C-111-1, C-112-1, C-113-1, C-113-1, C-114-1, C-116-1 and C-117-1.

Replace Bid Attachment 3 Plan Sheet Numbers G-103-1, C-111-1, C-112-1, C-113-1, C-113-1, C-114-1, C-116-1 and C-117-1 with the Revised Plan Sheet Numbers G-103-1, C-111-1, C-112-1, C-113-1, C-113-1, C-114-1, C-116-1 and C-117-1 issued with this Addendum 1.

REMOVE:

BID ATTACHMENT 2, TECHNICAL SPECIFICATION, SECTION 01590, COUNTY’S FIELD OFFICE.

Remove Bid Attachment 2, Technical Specification, Section 01590, County’s Field Office, in its entirety.

QUESTIONS AND RESPONSES:

- Q1. We are currently under “Force Majeure” for PVC pipe, fittings, valves, etc. How would this be addressed, and the contractor compensated both in time and price if we cannot secure pipe, fittings, valves, etc. to construct this project?**
- R1. County to address on a case-by-case basis. Time can be added through a change order during construction. Contractor should bid project with current and accurate pricing.

- Q2. For the tie in location of the 16” wye on C-101, what is the distance to the closest valves each direction for isolation & cut in work?**
- R2. There are two existing isolation valves approximately 12 ft north of the new 16-inch wye at Sta. 10+04.35 on the reduced north (10” gate valve) and reduced east (14” gate valve) legs of the existing wye to be replaced. There is an existing 16” gate valve approximately 500 ft south of the new wye location.
- Q3. Is an office trailer required for the engineer per section 01590?**
- R3. No, an Engineer Office Trailer is not required.
- Q4. Please provide volume of flow, low and high, and design TDH for Lift Stations No. 33 (GIS #238), 36 (GIS #241), 239, and 240.**
- R4. The below has design points and the flow data is over the last 30 days:
33A (238): 400GPM @ 34TDH, ~40k GPD, lowest flow after 10PM
36A (241): 1719GPM @ 60TDH, ~400k GPD, lowest flow after 10PM
34A (239): 963GPM @ 49TDH, ~175k GPD, lowest flow after 10PM
Bayshore on the Lake (240): 250GPM @ 64TDH, ~200k GPD, lowest flow after 10PM
- Q5. Where is the closest point to discharge raw sewage from tanker trucks that will be used to pump affected lift stations down at?**
- R5. Assuming these project shutdowns will occur at different times, the suggested tanker truck numbers below and dump location would be either 31A (126) 1710 47th Ave. Dr. W., or 27A (138) 2484 53rd Ave. W.
- 33A (238): One tanker truck
36A (241): Six tanker trucks
34A (239): Three tanker trucks
Bayshore on the Lake (240): Three tanker trucks
- Q6. What are the flow rates in the respective force mains so the by-pass pumping requirements can be determined?**
- R6. Refer to responses Q4 and Q5.
- Q7. Pay item #10 is for “Modification & Rehabilitation, Existing Manholes”: 1 EA. There are 3 manholes to be rehabbed and 1 valve vault (plan sheet C-111). Will the quantity for this work be adjusted as needed?**
- R7. Rehabilitation of the valve vault on Sheet C-111 is no longer required, and a revised C-111-1 sheet with this addendum shows an additional revision in the tie-in location and methodology. Furthermore, the unit for Bid Item No. 10 will remain as 1 since the County requires the work to be completed on all three manholes.
- Q8. Please separate the pay item for driveway restoration to include concrete drive restoration, asphalt drive restoration and brick paver drive restoration since the work required for each is significantly different.**
- R8. Separate Bid Items for Concrete Parking Demolition and Restoration, Concrete Driveway Demolition and Restoration, and Asphalt Driveway Demolition and Restorations are included in the Bid Form and Bid Item Description issued with and as a separate attachment to Amendment No. 1.
- Q9. In reference to Force Main 33A & 36A Replacements, project: under section 08200, do the fiberglass reinforced plastic doors and frames need to be hurricane rated?**

R9. No fiberglass reinforced plastic doors and frames are being used on this project.

Q10. Section 01030 Special Project Procedures 1.03 states that the contractor is to protect and/or relocate power poles and light poles as needed. Based on the plans there are many power poles and light poles that will need to be supported and/or relocated. Will there be a special allowance set up for this?

R10. Contractor is responsible for all coordination needed with utility companies for utility protection and relocation as needed that allows continuity of service throughout construction, which is included within Bid Item No. 1 – Mobilization.

Q11. When is the anticipated notice to proceed to be given?

R11. County will work with Contractor to issue Notice to Proceed typically within thirty days of contract award.

Q12. Without a geotechnical report and bore logs should the contractor assume dewatering the entire proposed pipe installation route?

R12. Yes, this can be assumed.

Q13. Without a geotechnical report and bore logs should the contractor assume the native material suitable for backfill?

R13. Yes, this can be assumed.

Q14. The schedule of values has a lump sum bid item for force main bypass. Can we get approved discharge and connection point locations for the bypasses to be set up?

R14. This question is not clear enough for the County to accurately answer at this time.

Q15. Can you clarify if the intention of the 18'' and 30'' steel cosigning are to be installed by jack and bore methods?

R15. Construction means and methods are to be determined by the Contractor.

Q16. On plan sheet C-117 at the second drive location the note states to remove and restore curb/gutter approx. 995 LF. It scales at about 26 LF. Please review and advise as needed.

R16. The note to remove and restore curb/gutter approx. 995 LF does not apply explicitly to the second drive location on this sheet. The Contractor is to remove and restore curb/gutter as needed along the roadway during construction under Pay Item No. 19. This callout however should read REMOVE AND RESTORE CURB, APPROX. 499 LF. Replace Sheet C-117 with Sheet CC-117-1 in this Amendment.

Q17. It appears the Miami Curb pay quantity is extremely overstated. Please review and advise as to the quantity. If quantity is correct, please indicate the locations of Miami curb to be replaced.

R17. The quantity of curb projected for potential replacement was reviewed and Drawing C-117 is amended as described above in response to Q16. The bid form quantity is revised in Appendix K, Bid Pricing Form Revised issued with and as a separate attachment to Amendment No. 1

Q18. Is the Header/Ribbon curb at the pavers on plan sheet C-112 to be paid for as part of the Miami curb item? If not, will a new pay items be added to cover this work?

R18. The concrete ribbon curbing that borders the concrete turf block is included within the revised Appendix K, Bid Pricing Form Revised as a separate bid item for Concrete

Parking Demolition and Restoration issued with and as a separate attachment to Addendum No. 1.

Q19. Reference specifications Section 01590, COUNTY'S FIELD OFFICE, is this really necessary? There is no room for a temporary office and is a waste of tax-payers money and should be deleted from the specifications. Please delete this requirement.

R19. See response to Q3.

Q20. Please schedule a site visit on 26th Street West at 38th Avenue West for contractors to see the interior conditions of the three (3) sanitary manholes to be rehabilitated, this will require the outside north bound lane of traffic be shut down and flagmen present to assist the general public while the manhole covers are removed in order to make our inspection of these manholes. This should be a mandatory site visit.

R20. A non-mandatory site visit is schedule for August 17, 2021, at 8:00 am.

Q21. Reference specifications Section 01150, page 37-522, Bid Item No. 5, Miscellaneous Work, first sentence, reference to the words "as an allowance permitted by the County", is this item supposed to have a pre-determined monetary value established by the County?

R21. The monetary value for Bid Item No. 5 is to be determined by the bidder.

Q22. Are soil borings available? If so, please provide.

R22. No soil borings were collected for this design.

Q23. Reference Bid Form, Bid Items 16A and 16B, with the exception of the 42LF of 18-inch casing to be installed as shown on plan sheet C-111 that will have to be installed by open cut, is it the intent that the other casings to be installed be by jack and bore or open cut? Please clarify.

R23. Construction means and methods are to be determined by the Contractor. Methods and applicable MOT plans are to be submitted for approval by the County.

Q24. Reference specifications Section 01150, page 41/522, Bid Items No. 16A and 16B, is the carrier pipe to be paid in this item, the description in the Measurement and Payment for this item is not specific about the carrier pipe, please clarify.

R24. The carrier pipe installation is included within the applicable Bid Item No. 7.

Q25. Reference plan sheet C-501, Detail UG-12, Note 5, the thickness and type of asphalt this note refers to contradicts what the Measurement and Payment Section for Bid Item 17 describes to be installed, please clarify asphalt type and thickness.

R25. Bid Item No. 17 description is clarified. Contractor is to follow Detail UG-12, Note 5.

Q26. Reference plan sheet C-501, Detail UG-12, Note 6, there is no bid item for milling and resurfacing to cover this scope of work, please add a bid item with quantity for this scope of work.

R26. Complete road restoration including milling and resurfacing is included within Bid Item No. 17.

Q27. Reference plan sheet C-101, where is and what is the distance to the nearest 16-inch valve that will be downstream of the new 16-inch wye to be installed at Sta. 10+04.35?

R27. See response to Q2.

Q28. Reference plan sheet C-111, the note to “REHAB VALVE VAULT”, why is this necessary? The design calls for connecting to the existing 8-inch pipe outside of the vault with a “union”, for which there is no pay item and one needs to be added. The work required to make the connection does not require getting inside the valve vault. Please remove the note to rehab vault.

R28. See response to Q7.

Q29. Reference plan sheets C-101 - C-103, please provide a detail for replacing the concrete turf block at the parking area where the new pipe will be installed as much of this area will be destroyed and need to be replaced. It is not correct to include restoring the concrete turf block as incidental to the cost of installing the 16-inch pipe and deserves a bid item.

R29. A separate bid item for Concrete Parking Demolition and Restoration is now included in Appendix K, Bid Pricing Form Revised issued with and as a separate attachment to Addendum 1. Concrete turf block is to be field verified and replaced in-kind subject to approval by the County.

Q30. Please provide a detail for the concrete curb that borders the concrete turf block.

R30. The concrete ribbon curbing that borders the concrete turf block is to be field verified and replaced in-kind subject to approval by the County.

Q31. Please add a bid item, with a quantity, to remove and replace with new concrete turf block. The entire turf block parking area will be impacted by installation of the new pipe.

R31. A separate bid item for Concrete Parking Demolition and Restoration is now included in Appendix K, Bid Pricing Form Revised issued with and as a separate attachment to Addendum 1.

Q32. Please add a bid item, with a quantity, for the curb that borders the concrete turf block.

R32. The concrete ribbon curbing that borders the concrete turf block is included within the separate bid item for Concrete Parking Demolition and Restoration that is now added in Appendix K, Bid Pricing Form Revised issued with and as a separate attachment to Addendum No. 1.

Q33. Please add a bid item, with a quantity, to replace the concrete curb at the landscape islands at the turf block parking area.

R33. Concrete curb at the landscape islands at the turf block parking area is included within Bid Item No. 19, which is clarified in Appendix K, Bid Pricing Form Revised as part of Addendum No. 1.

Q34. Please add a bid item with a quantity to remove and replace with new concrete wheel stops at the concrete turf block parking areas as many of them are damaged.

R34. See response to Q32.

Q35. The current contract time of 270-days is not enough time, please consider 360-days, this is more realistic as there is a lot to do on this job.

R35. The contract time has been revised to 365 calendar days.

NOTE:

Items that are ~~struck through~~ are deleted. Items that are underlined have been added or changed. All other terms and conditions remain as stated in the IFBC.

INSTRUCTIONS:

Receipt of this Addendum must be acknowledged as instructed in the solicitation document. Failure to acknowledge receipt of this Addendum may result in the response being deemed non-responsive.

END OF ADDENDUM

AUTHORIZED FOR RELEASE

APPENDIX K- REVISED					
BID FORM					
FORCE MAIN 33A AND 36A REPLACEMENT					
Bid BASED ON <u>365</u> CALENDAR DAY FOR COMPLETION					
Bidder must provide a prices for each line item for their bid to be considered responsive.					
Item	Description	Unit	Quantity	Cost Per Unit	Total
1	MOBILIZATION	LS	1		
2	MAINTENANCE OF TRAFFIC AND PEDESTRIAN SAFETY	LS	1		
3	EROSION AND SEDIMENTATION CONTROL	LS	1		
4	SITE PREPARATION	LS	1		
5	MISCELLANEOUS WORK	LS	1		
6	FORCE MAIN BYPASS	LS	1		
7A	6" PVC (C-900) FORCE MAIN (RESTRAINED JOINT)	LF	8		
7B	8" PVC (C-900) FORCE MAIN (RESTRAINED JOINT)	LF	<u>1473</u>		
7C	14" PVC (C-900) FORCE MAIN (RESTRAINED JOINT)	LF	4		
7D	16" PVC (C-900) FORCE MAIN (RESTRAINED JOINT)	LF	2771		
8A	6" DUCTILE IRON ELBOWS (RESTRAINED JOINT)	EA	1		
8B	8" DUCTILE IRON ELBOWS (RESTRAINED JOINT)	EA	12		
8C	16" DUCTILE IRON ELBOWS (RESTRAINED JOINT)	EA	19		
8D	16" X 6" DUCTILE IRON WYE (RESTRAINED JOINT)	EA	1		
8E	16"x16" DUCTILE IRON WYE (RESTRAINED JOINT)	EA	1		
8F	16"x14" DUCTILE IRON REDUCER (RESTRAINED JOINT)	EA	1		
8G	6" DUCTILE IRON UNION (RESTRAINED JOINT)	EA	1		
9	16" HDPE / DI ADAPTER	EA	2		
10	MODIFICATION AND REHABILITATION, EXISTING MANHOLES	EA	1		
11	ARV WITH VAULT	EA	3		
12	ARV IN ABOVE GROUND ENCLOSURE	EA	1		
13A	6" PLUG VALVE AND VALVE BOX	EA	1		
13B	8" PLUG VALVE AND VALVE BOX	EA	1		
13C	16" PLUG VALVE AND VALVE BOX	EA	4		
14A	6" EXISTING FORCE MAIN REMOVAL	LF	10		
14B	8" EXISTING FORCE MAIN REMOVAL	LF	70		
14C	14" EXISTING FORCE MAIN REMOVAL	LF	10		
15A	8" EXISTING FORCE MAIN PLUG AND FILL	LF	1372		
15B	14" EXISTING FORCE MAIN PLUG AND FILL	LF	2806		
16A	18" STEEL CASING	LF	117		
16B	30" STEEL CASING	LF	52		
17	<u>PAVEMENT DEMOLITION, REPAIR AND ROAD RESTORATION</u>	SY	<u>1148</u>		

Bidder Name:

Bidder Signature:

APPENDIX K- REVISED					
BID FORM					
FORCE MAIN 33A AND 36A REPLACEMENT					
Bid BASED ON <u>365</u> CALENDAR DAY FOR COMPLETION					
Bidder must provide a prices for each line item for their bid to be considered responsive.					
18	MISCELLANEOUS CONCRETE DEMOLITION AND REPLACEMENT	CY	10		
19	<u>CURB DEMOLLITION AND REPLACEMENT</u>	LF	<u>1473</u>		
20	<u>CONCRETE PARKING DEMOLITION AND RESTORATION</u>	SY	<u>298</u>		
21A	<u>CONCRETE DRIVEWAY DEMOLITION AND RESTORATION</u>	SY	<u>199</u>		
21B	<u>ASPHALT DRIVEWAY DEMOLITION AND RESTORATION</u>	SY	<u>71</u>		
22	<u>SIDEWALK DEMOLITION AND RESTORATION</u>	SY	<u>146</u>		
23	TREE REPLACEMENT	EA	37		
24	LANDSCAPE RESTORATION	LS	1		
25	SODDING	SY	2180		
26	RECORD DRAWINGS, O&M MANUAL, AND SHOP DRAWINGS	LS	1		
TOTAL BASE BID					\$ -
27	CONTRACT CONTINGENCY (10%)	LS	10%		\$ -
TOTAL BID PRICE INCLUDING TOTAL CONSTRUCTION COSTS BASED ON <u>365</u> CALENDAR DAY COMPLETION					\$ -

Bidder Name:

Bidder Signature:

LIFT STATION 33A AND LIFT STATION 36A FORCE MAIN REPLACEMENTS

SECTION 01150 MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.01 SCOPE

- A. The scope of this section of the Contract Documents is to further define the items included in each Bid Item in the Bid Form section of the Contract Documents. Payment will be made based on the specified items included in the description in this section for each bid item. Bid Items to be in accordance with and meet requirements of the Construction Drawings, these Specifications, County Standards and County Approved Products List (or equal).
- B. All contract prices included in the Bid Form section will be full compensation for all shop drawings, working drawings, labor, materials, tools, equipment and incidentals necessary to complete the construction as shown on the Drawings and/or as specified in the Contract Documents to be performed under this Contract. Actual quantities of each item bid on a unit price basis will be determined upon completion of the construction in the manner set up for each item in this section of the Specifications. Payment for all items listed in the Bid Form will constitute full compensation for all work shown and/or specified to be performed under this Contract.

1.02 ESTIMATED QUANTITIES

The quantities shown are approximate and are given only as a basis of calculation upon which the award of the Contract is to be made. The County does not assume any responsibility for the final quantities, nor shall the Contractor claim misunderstanding because of such estimate of quantities. Final payment will be made only for satisfactorily completed quantity of each item.

1.03 WORK OUTSIDE AUTHORIZED LIMITS

No payment will be made for work constructed outside the authorized limits of work.

1.04 MEASUREMENT STANDARDS

Unless otherwise specified for the particular items involved, all measurements of distance shall be taken horizontally or vertically.

1.05 AREA MEASUREMENTS

In the measurement of items to be paid for on the basis of area of finished work, the lengths and/or widths to be used in the calculations shall be the final dimensions measured along the surface of the completed work within the neat lines shown or designated.

1.06 LUMP SUM ITEMS

Where payment for items is shown to be paid for on a lump sum basis, no separate payment will be made for any item of work required to complete the lump sum items. Lump sum contracts shall be complete, tested and fully operable prior to request for final payment. Contractor may be required to provide a break-down of the lump sum totals.

LIFT STATION 33A AND LIFT STATION 36A FORCE MAIN REPLACEMENTS

1.07 UNIT PRICE ITEM

Separate payment will be made for the items of work described herein and listed on the Bid Form. Any related work not specifically listed, but required for satisfactory completion of the work shall be considered to be included in the scope of the appropriate listed work items.

No separate payment will be made for the following items and the cost of such work shall be included in the applicable pay items of work. Final payments shall not be requested by the Contractor or made by the County until as-built (record) drawings have been submitted and approved by the County.

1. Project signs and photographs.
2. Removal, repair, replacement or relocation of all signs, walls, private irrigation systems and related items.
3. Rubbish and spoil removal.
4. Shop Drawings, Working Drawings.
5. Clearing, grubbing and grading except as hereinafter specified.
6. Trench excavation, including necessary pavement removal and rock removal, except as otherwise specified.
7. Dewatering and disposal of surplus water.
8. Structural fill, backfill, and grading.
9. Replacement of unpaved roadways, and shrubbery plots.
10. Cleanup & miscellaneous work.
11. Foundation and borrow materials, except as hereinafter specified.
12. Flushing, pigging, and tie-ing into existing main.
 - a. Flushing, pigging, and tie-in plan must be submitted and approved prior to work.
13. Testing and placing system in operation.
 - a. Including all necessary testing to place main into operation.
 - i. Bacteriological Testing
 - ii. Pressure Testing
 - b. All permanent and temporary materials, equipment, labor and appurtenances necessary for testing and acquiring clearances.
14. Any material and equipment required to be installed and utilized for the tests.
15. Pipe, structures, pavement replacement, asphalt and shell driveways and/or appurtenances included within the limits of lump sum work, unless otherwise shown.
16. Pipe identification tape, tracer wire, tracer wire boxes, tie-ing into existing tracer and continuity testing.
17. Maintaining the existing quality of service during construction.
18. Appurtenant work as required for a complete and operable system.
19. Obtaining and paying fees for all necessary permits to perform work and fees for clearances /requests to place main into service from permitting agency.
20. Maintenance of Traffic and Pedestrians.
 - a. Placing and removing all traffic signs and barriers.
21. Tree protection.
22. Clearing and grubbing.
23. Erosion Control.
 - a. Minimum silt fence along length of project disturbed area.
 - b. Erosion control methods must meet requirements of Manatee County and other governing agencies.
24. Seeding and hydromulching.

LIFT STATION 33A AND LIFT STATION 36A FORCE MAIN REPLACEMENTS

25. Trench safety.

BID ITEM NO. 1: MOBILIZATION

Measurement and payment for this Bid Item shall include full compensation for the required 100 percent (100%) Performance Bond, 100 Percent (100%) Payment Bond, all required insurance for the project and the Contractor's mobilization and demobilization costs as shown in the Bid Form. Mobilization includes, but it not limited to: preparation and movement of personnel, equipment, supplies and incidentals such as safety and sanitary supplies/ facilities. Mobilization also includes all coordination needed with utility companies for utility protection and relocation as needed that allows continuity of service throughout construction.

Payment for mobilization shall not exceed 10 percent (10%) of the total Contract cost unless the Contractor can prove to the County that his actual mobilization cost exceeds 10 percent (10%).

Partial payments for this Bid Item will be made in accordance with the following schedule:

Percent of Original Contract Amount:	Percent Allowable Payment of Mobilization/Demobilization Bid Item Price:
5	25
10	35
25	45
50	50
75	75
100	100

These payments will be subject to the standard retainage provided in the Contract. Payment of the retainage will be made after completion of the work and demobilization.

BID ITEM NO. 2 MAINTENANCE OF TRAFFIC AND PEDESTRIAN SAFETY

Maintenance of traffic and pedestrian safety within the limits of the project for the duration of the construction period will be in accordance with the requirements of Section 102 of the Florida Department of Transportation's "Standard Specifications for Road & Bridge Construction," latest edition and the State of Florida's "Manual of Traffic Control and Safe Practices for Street and Highway Construction, Maintenance and Utility Operations," applicable edition, except as amended by these Contract Specifications (Section 01570 Traffic Regulations).

The work specified under this Section shall include furnishing all labor, materials, and equipment necessary to maintain public roadway and pedestrian traffic including flag men, uniformed police officers, temporary barricades of whatever type required, warning lights/flashers, safety ropes, and for such duration as may be required by the Engineer. This will also include all materials and construction necessary for temporary connections and driveway maintenance. Also included is furnishing, installing and maintaining a Traffic Control Plan, control and safety devices, control of dust, temporary crossing structures over trenches, any necessary detour facilities, and other special requirements for the safe and expeditious movements of traffic.

LIFT STATION 33A AND LIFT STATION 36A FORCE MAIN REPLACEMENTS

The Contractor will take all necessary precautions for the protection of the Work and safety of the public for the duration of the construction period.

The Contractor will provide barriers to prevent unauthorized entry to construction areas and to protect persons and property from damage due to construction operations. Contractor will provide temporary fencing where needed to protect the Work or Contractor's office, materials, and equipment.

This item will be paid for at the applicable contract unit price of lump sum (LS) as listed in the Contract Plans and paid monthly based on the Work completed as part of the pay application.

BID ITEM NO. 3 EROSION AND SEDIMENTATION CONTROL

Erosion and Sedimentation Control within the limits of the project for the duration of the construction period will be in accordance with the requirements of Manatee County Public Works Standards Manual, latest edition, and Section 104 of the Florida Department of Transportation's "Standard Specifications for Road & Bridge Construction," latest edition. Contractor to develop erosion and sedimentation control plan and receive County approval prior to construction. Install silt fences, rock bags, and other erosion and sedimentation control devices as depicted in the Contractor developed erosion and sedimentation control plan or as directed by the Engineer or County. Contractor shall minimize dirt/earth from site from being transferred onto roadways via work truck tires. Contractor shall remove dirt/earth or other work related elements from the construction area as needed and at County's request.

The work specified under this Bid Item will include furnishing all labor, materials, and equipment to control and prevent sediment transportation from the Work area to adjacent properties and roadways, including installation, maintenance, and removal of temporary erosion and sediment controls for such duration as may be required by the Engineer or County.

The Contractor will clean up the site to preconstruction condition, as described in Section 01710.

This item will be paid for at the applicable contract unit price of lump sum (LS) as listed in the Contract Plans.

BID ITEM NO. 4: SITE PREPARATION

Payment for work under these Bid Items shall be made at the Contract unit price bid of lump sum (LS) for the removal and disposal of vegetation, protection of trees, and protection of private property within the construction area and temporary relocation of existing fencing as needed in accordance with Specification 02100.

BID ITEM NO. 5 MISCELLANEOUS WORK

Payment for all work included in this Bid Item will be made at the applicable unit price of lump sum (LS) as an allowance permitted by the County. Payment shall include the furnish and installation of sodding, sprigging and seeding of disturbed areas not specifically covered under other bid items. Payment shall include removal/temporary/restoration of existing fence, site preparation, clean up and restoration not specifically covered under other bid items. Payment shall include trash disposal and dust control. Payment shall include work and coordination efforts not specifically noted within other bid items that are necessary to complete work as

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noted in the Contract Documents, complete and satisfactory by the County.

BID ITEM NO. 6: FORCE MAIN BYPASS

Payment for work under these Bid Item will be made at the Contract unit price of lump sum (LS) for temporary bypass piping and pumping to perform proposed force main tie-ins as needed in accordance with Specification 02720. Contractor will provide vacuum trucks as needed for bypass and tie-ins. Contractor will provide bypass pumps and power to bypass pumps at contributing pump stations, as needed. Contractor shall develop bypass pumping and piping plan(s) as part of a Tie-in/Shut-down Plan and submit for review and approval by the County prior to start of construction. Contractor will note number or vacuum trucks and/or bypass pump makes/models in the bypass plan that is to be part of the Tie-in/Shut-down Plan.

- BID ITEM NO. 7A: 6" PVC (C-900) FORCE MAIN (RESTRAINED JOINT)**
- BID ITEM NO. 7B: 8" PVC (C-900) FORCE MAIN (RESTRAINED JOINT)**
- BID ITEM NO. 7C: 14" PVC (C-900) FORCE MAIN (RESTRAINED JOINT)**
- BID ITEM NO. 7D: 16" PVC (C-900) FORCE MAIN (RESTRAINED JOINT)**

Payment for all work included in these Bid Items shall be made at the applicable Contract unit price bid per the schedule of prices for furnishing and installing the listed diameter PVC force main (AWWA C-900, CL-150 or C-905, CL-235) pipe as shown on the Contract Drawings and listed on the Bid Form. Measurement and Payment shall be made for the actual length of the listed diameter pipe furnished and installed and will represent full compensation for all labor, materials, excavation, including rock, shoring, dewatering, bedding, marker tape, detector wire (and test/termination boxes), backfill, compaction, testing, surface restoration to pre-construction condition not covered under other Bid Items, and equipment required to complete these Bid Items. Payment shall include mechanical thrust restraint, either as integral component of pipe joint or external mechanical restraint for proposed pipe and existing pipe. Payment shall include polyethylene wrap (polywrapped; green for wastewater) of mechanical joint restraints. Payment for 8" PVC (C-900) bid item shall include cost of flange adapter for connection to existing flange within vault. Payment for 14" PVC (C-900) force main bid item shall include cost of flange adapter for connection to existing flange within vault. Payment for 8" PVC (C-900) bid item shall include cutting into existing vault for connection, repair of vault wall/rebar to preconstruction condition, and recoating of vault interior damaged during construction. Payment for 16" PVC (C-900) bid item shall include cutting into existing vault for connection, repair of vault wall/rebar to preconstruction condition, and recoating of vault interior damaged during construction. No additional compensation shall be made for excavation below the bottom of the pipe, for rock removal or bedding and backfill material, or for repair of any trench settlement.

- BID ITEM NO. 8A: 6" DUCTILE IRON ELBOW (RESTRAINED JOINT)**
- BID ITEM NO. 8B: 8" DUCTILE IRON ELBOW (RESTRAINED JOINT)**
- BID ITEM NO. 8C: 16" DUCTILE IRON ELBOW (RESTRAINED JOINT)**
- BID ITEM NO. 8D: 16" X 6" DUCTILE IRON WYE (RESTRAINED JOINT)**
- BID ITEM NO. 8E: 16" X 16" DUCTILE IRON WYE (RESTRAINED JOINT)**
- BID ITEM NO. 8F: 16" X 14" DUCTILE IRON REDUCER (RESTRAINED JOINT)**
- BID ITEM NO. 8G: 6" DUCTILE IRON UNION (RESTRAINED JOINT)**

Payment for all work included in these Bid Items will be made at the applicable Contract unit price bid for furnishing and installing each ductile iron fitting (40-mil Tnemec Series 431 Perma-Shield PL or Permox CTF coating) and joint restraint as shown on the Contract Drawings and

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listed on the Bid Form.

Payment to include polyethylene wrap; all ductile iron fittings are to be encased in polyethylene (polywrapped; green for wastewater). Payment shall represent full compensation for all labor, material, equipment, excavation, including rock, bedding, backfill, compaction, testing, surface restoration to pre-construction condition not covered under other Bid Items, and all equipment, materials and labor necessary required to complete this Bid Item. Payment shall include mechanical thrust restraint, either as integral component of pipe joint or external mechanical restraint.

BID ITEM NO. 9: 16" HDPE / DI ADAPTER

Payment for all work included in this Bid Item will be made at the applicable Contract Unit price per each (EA) for furnishing and installing ductile iron (DI) to high density polyethylene (HDPE) pipe transition adapters, size as noted on the drawings. Payment shall include all components noted in County Standard detail UG-6, HDPE pipe to MJ Fitting Transition Adapter. Adapter to have 250 psi pressure rating minimum. Payment will be made for each adapter installed and will represent full compensation for excavation, including rock, sheeting and shoring, bedding, backfill, compaction, testing and equipment, and all equipment, materials and labor required to complete this Bid Item in accordance with County Standards.

BID ITEM NO. 10: MODIFICATION AND REHABILITATION, EXISTING MANHOLES

Payment for all work included in these Bid Items shall be made at the applicable Contract unit price bid per each (EA) proposed force main tie-in to an existing manhole noted on the Contract Drawings and listed on the Bid Form. Payment shall include coring of existing manhole, proposed force main connection, lining of modified manhole and two downstream manholes, rehabilitating chimney, and replacing manhole frame and lid. Payment shall represent full compensation for all labor, material, excavation, including rock as necessary, bedding, backfill, compaction, excess material removal, testing and disinfection and equipment required to complete these Bid Items.

BID ITEM NO. 11: ARV WITH VAULT

Payment for air release valve (ARV) (GA Industries 929, See Detail US-8) and appurtenances shall be based on the actual number of units installed in the locations shown on the plans or as directed by the County at the unit price of each (EA). Payment shall include costs for all labor and materials required for the installation complete. Payment shall include air release valve assembly, 2" tapping saddle, 2" SST ball valve, SST support strap, necessary length of 2" 316 SST pipe, 316 SST cover bolts, quick disconnect coupling, concrete support pad, 5 ft diameter manhole with lid, 10 mils of fusion bond epoxy coating on interior of air release valve, associated pipe laying and jointing, removing excess material, testing, clean-up, and all items necessary to construct the air release valve systems complete, in accordance with Detail US-8, and ready for service. Payment shall include surveying, excavation, dewatering, sheeting and shoring, backfilling, compaction, excess material removal, testing, clean-up, all labor, materials, pavement saw cutting and removal (as needed), temporary and final pavement (as needed), surface restoration, and equipment necessary to construct the vault and install the ARV and make them ready for service.

BID ITEM NO. 12: ARV IN ABOVE GROUND ENCLOSURE

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Payment for Bid Item air release valve (ARV) (Detail US-9); height of enclosure to be minimum 36" (amendment to standard detail); and appurtenances shall be based on the actual number of units installed in the locations shown on the plans or as directed by the County at the Contract Unit price of each (EA). Payment shall include costs for all labor and materials shown in standard Detail US-9 required for complete installation. Payment shall include air release valve assembly, 2" tapping saddle, 2" SST ball valve, SST corporation stop, SST support strap, necessary length of 2" 316 SST pipe, 316 SST cover bolts, quick disconnect coupling, concrete support pad, fiberglass cabinet (color dependent on service type), associated pipe laying and jointing, removing excess material, testing, clean-up, and all items necessary to construct the air release valve systems complete, in accordance with Detail US-9 (with 36" enclosure height), and ready for service. Payment shall include surveying, excavation, dewatering, sheeting and shoring, backfilling, compaction, excess material removal, testing, clean-up, all labor, materials, pavement saw cutting and removal (as needed), temporary and final pavement (as needed), surface restoration to pre-construction condition, and labor, material, and equipment necessary to furnish and install the ARV and enclosure and make them ready for service.

BID ITEM NO. 13A: 6" PLUG VALVE AND VALVE BOX
BID ITEM NO. 13B: 8" PLUG VALVE AND VALVE BOX
BID ITEM NO. 13C: 16" PLUG VALVE AND VALVE BOX

Payment for all work included in these Bid Items shall be made at the applicable Contract unit price bid per each valve for furnishing and installing the listed diameter valve, box, cover, brass tag, and concrete pad as shown on the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, material, excavation, including rock as necessary, bedding, backfill, compaction, testing and disinfection and equipment required to complete these Bid Items.

BID ITEM NO. 14A: 6" EXISTING FORCE MAIN REMOVAL
BID ITEM NO. 14B: 8" EXISTING FORCE MAIN REMOVAL
BID ITEM NO. 14C: 14" EXISTING FORCE MAIN REMOVAL

Payment for this Bid Item will be at the applicable contract unit price of linear feet (LF) per existing 6-inch, 8-inch, and 14-inch force main, per respective Bid Item, as needed to accommodate tie-ins and common trench replacement needs. Measurement and Payment shall be made for the actual length of the listed diameter pipe removed including appurtenances (such as valves, valve boxes, concrete collars, ARVs and enclosures (and manholes), casing, fittings, and other materials and appurtenances) and will represent full compensation for all labor, equipment, materials, excavation, including rock, dewatering, bedding, backfill, compaction, testing and equipment required to complete these Bid Items. No additional compensation shall be made for excavation below the bottom of the pipe, for rock removal or bedding and backfill material, or for repair of any trench settlement.

BID ITEM NO. 15A: 8" EXISTING FORCE MAIN PLUG AND FILL
BID ITEM NO. 15B: 14" EXISTING FORCE MAIN PLUG AND FILL

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price per linear foot (LF) for plugging and filling the listed diameter pipe as shown on the Contract Drawings and listed in the Bid Form. Measurement and Payment shall be made for the actual length of the listed diameter pipe in the Contract Drawings to be plugged, filled and abandoned in place. Payment will include the removal of pipe as needed to facilitate the plugging and filling process, disposal of water within the existing pipe to be abandoned, furnish

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and installation of caps with offset ports that minimize air entrapment potential, removal of connected ARVs, removal of existing isolation valve stems and boxes, furnish and installation of ductile iron cap (or plug) fittings (restrained), filling with cement slurry that contains fly ash, and abandonment. Payment shall include all cost of excavation, grout, backfill and compaction, dewatering, sheeting, surface restoration to pre-construction condition, all labor, equipment and materials necessary to perform all the work associated with filling and plugging the existing main and abandoned in place as indicated on the Construction Drawings.

BID ITEM NO. 16A: 18" STEEL CASING

BID ITEM NO. 16B: 30" STEEL CASING

Measurement will be based on the actual length of steel casing installed and shall be measured horizontally along the centerline from the start of its construction to its termination. Payment will be at the applicable contract unit price per linear foot (LF). Price and Payment will be full compensation for all work and materials required to complete the work, including furnishing and installing steel casing (split casing on existing), from plan point of beginning to plan point of ending at plan depth, mechanical restraint of carrier pipe within the casing and pipe/fitting joints within twenty (20) linear feet, welding of casing seam, removal of excavated material and spoils, backfilling, complete restoration of site, exploratory excavation, erosion and pollution control, site clearing and all offsite disposal costs of excess site material, temporary support of existing utilities to remain, utility pipe support, equipment, trench safety, bulkheads, sheeting and shoring, grouting, dewatering, end seals, casing spacers and all appurtenances required, testing, and inspection.

BID ITEM NO. 17: PAVEMENT DEMOLITION, REPAIR AND ROAD RESTORATION

Payment for all work included under these Bid Items will be made at the Contract unit price bid per square yard (SY) of base, subbase and tonnage of asphalt for demolishing and removing existing pavement and furnishing, installing and testing the road restoration pavement sections within the construction area. Measurement will be based on the actual number of square yards of existing road demolished and removed, and new road installed, tested, complete and approved. The measurement will be from face of curb to face of curb or as specified, but not greater than the width of the existing roadway prior to construction. Payment will include complete restoration of the roadway section in accordance with the applicable details on the Contract Drawings the necessary base, subbase or compacted suitable excavation material all in accordance with these Specifications. No payment for restoration of a private driveway within or outside the right-of-way shall be made under this Bid Item. Payment shall include all items and incidentals necessary to complete the road removal and restoration in accordance with the requirements of Manatee County ready for approval and acceptance by the County.

BID ITEM NO. 18: MISCELLANEOUS CONCRETE DEMOLITION AND REPLACEMENT

Payment for all work under these Bid Items shall be made at the applicable Contract unit price bid per cubic yard (CY) of concrete as shown on the Bid Form for demolishing and removing existing concrete, furnishing, placing and installing the miscellaneous new concrete, measured in place, within the lines and grades as shown on the Contract Drawings and as described in the Specifications. All concrete placed outside these lines and grades to fill unauthorized excavation and all concrete for replacing defective work shall be at the expense of the Contractor. Concrete specifically included under any other Bid Item will not be measured or paid for under this Bid Item.

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Measurement for miscellaneous concrete shall be per actual cubic yard of existing concrete demolished and removed, and new concrete furnished, placed and installed as shown on the Contract Drawings or as ordered by the County in writing. This Bid Item includes encasements, nonreinforced pipe cradles, and like work. Payment shall represent full compensation for all labor, materials, and equipment for mixing, placing, forming and curing of the concrete and all incidentals necessary to complete the concrete work, ready for approval and acceptance by the County.

BID ITEM NO. 19: CURB DEMOLITION AND REPLACEMENT

Payment for all work included in these Bid Items will be made at the applicable Contract unit price bid per linear foot (LF) for removal of existing curbing and for furnishing and placing in-kind the curb as shown on the Drawings and detailed in the Manatee County Public Works Manual Part 3 - Highway & Traffic Standards. Measurement will be per actual number of linear feet of curbing removed and installed. Payment shall represent full compensation for removal of existing curb and all labor, material and equipment for compacting subgrade, forming, furnishing, placing the concrete, and finishing new concrete as specified and all incidentals necessary for completion of these Bid Items, ready for approval and acceptance by the County.

BID ITEM NO. 20: CONCRETE PARKING DEMOLITION AND RESTORATION

Payment for all work included under this Bid Item will be made at the Contract unit price bid per square yard (SY) of impacts within the construction area. Measurement will be based on the actual square yardage of existing concrete turf block parking demolished and removed, and new concrete turf block parking system installed, tested, complete and approved. The measurement will be from edge of concrete turf block parking system to face of curb or as specified, but not greater than the length of the existing concrete turf block parking area. Only full concrete turf blocks will be removed and restored. There shall be no sawcutting of the existing concrete turf block system. Payment shall include complete restoration of the concrete turf block parking area impacted. Payment shall include all items and incidentals necessary to complete the concrete turf block removal and replacement as well as new parking stops and concrete ribbon curbing bordering the concrete turf block parking area. The concrete turf block replacement shall match existing concrete turf block to the maximum extent possible and shall require approval and acceptance by the County.

BID ITEM NO. 21A: CONCRETE DRIVEWAY DEMOLITION AND RESTORATION

BID ITEM NO. 21B: ASPHALT DRIVEWAY DEMOLITION AND RESTORATION

Payment for all work included in these Bid Items will be made at the applicable Contract unit price bid per square yard (SY) of existing driveway demolition and removal, and asphaltic concrete, or concrete driveway restoration as listed on the Bid Form and similar to the preconstruction material. Measurement of driveway removal and restoration will be per the actual number of square yards removed or replaced. Payment shall represent full compensation for all labor, materials and equipment for demolishing and removing existing driveway in the construction area, cutting the edges of existing driveways for tie-in of new driveway, compacting subgrade, furnishing and installing the asphaltic concrete or concrete driveway and all incidentals necessary to complete the driveway restoration as shown on the Contract Drawings and included in the Specifications, all ready for approval and acceptance by the County.

BID ITEM NO. 22: SIDEWALK DEMOLITION AND RESTORATION

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Payment for all work included in these Bid Items will be made at the applicable Contract unit price bid per square yard of existing sidewalk demolition and removal, and new sidewalk restoration as listed on the Bid Form and similar to the preconstruction material. Measurement of sidewalk removal and restoration will be per the actual number of square yards removed or replaced. Payment shall represent full compensation for all labor, materials and equipment for demolishing and removing existing sidewalk in the construction area, cutting the edges of existing sidewalk for tie-in of new sidewalk, compacting subgrade, furnishing and installing the sidewalk and all incidentals necessary to complete the sidewalk restoration as shown on the Contract Drawings and included in the Specifications, all ready for approval and acceptance by the County.

BID ITEM NO. 23: TREE REPLACEMENT

Payment for all work included under this Bid Item shall be made at the Contract unit price per tree listed in the Bid Form and shall represent full compensation for all labor, materials, and equipment required to remove impacted tree, dispose of tree, and replace tree in-kind, and to be approved and accepted by the County prior to tree removal.

BID ITEM NO. 24: LANDSCAPE RESTORATION

Payment for all work included under this Bid Item shall be made at the Contract lump sum price bid listed in the Bid Form and shall represent full compensation for all labor, materials and equipment required to restore residential and commercial landscaping to pre-construction conditions, and to be approved and accepted by the County. Landscape items include shrubs, fences, planter beds and borders, and mailboxes.

BID ITEM NO. 25: SODDING

Measurement shall be per square yards of sod installed, alive and growing. Payment will be per actual quantity of square yards of sodding, seeding and mulching installed and accepted. The unit bid price shall include, but is not limited to, cutting down the existing ground to accept sod, installation, watering, and all labor, materials, necessary equipment, and incidentals necessary to complete this bid item, ready for approval and acceptance by the County.

Sod placed at the edge of the roadway shall not create a "dam" and impede storm water runoff from existing the roadway and entering the stormwater conveyance system.

BID ITEM NO. 26: RECORD DRAWINGS, O&M MANUAL, AND SHOP DRAWINGS

Payment for all work included under this Bid Item shall be made at the Contract lump sum price bid listed in the Bid Form and shall represent full compensation for all labor, materials and equipment required to generate and provide record drawings in the form of red lines, operation and maintenance manuals for equipment, instrumentation and appurtenances, and shop drawings approved and accepted by the County. Record Drawings shall be in strict accordance with Section 1.15 of the Manatee County Public Work Utility Standards.

BID ITEM NO. 27: CONTRACT CONTINGENCY

Payment for all work under this Bid Item shall be made only at the County's discretion. This Bid Item shall not exceed 10% of the Bidders Total Base Bid. The Bidder shall calculate and

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enter a dollar amount for this Bid Item.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION