



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

Solicitation Addendum

Addendum No.: 6
Solicitation No.: 18-TA002593SR
Project No.: 404-6028386
Solicitation Title: Force Main 12A Replacement
Addendum Date: March 27, 2018
Procurement Contact: Stacia Raposa, stacia.raposa@mymanatee.org

IFBC NO. 18-TA002593SR 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 NO. 18-TA002593SR.

Replace:

APPENDIX J, BID FORM

Replace Appendix J, Bid Form revised per Addendum 4 with the attached Appendix J, Bid Form revised per this Addendum 6.

Clarifications of Engineer's Changes:

R1 from Addendum 5 takes precedence over R29 in Addendum 3.

R29 from Addendum 3 was in error and should have applied only to pipe joint restraints (not fittings).

BID FORM:

Bid items for item 17 have been changed to show only pipe joint restraints.

The deadline for questions and clarifications established in Article A.49 of the bidding documents has passed, and no further questions or requests for clarifications will be accepted.

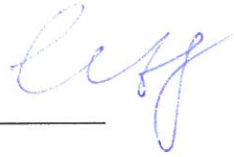
NOTE: Items that are ~~struck through~~ are deleted. Items that are underlined have been added or changed. All other terms and conditions remain as stated in the 18-TA002593SR

End of Addendum

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.

AUTHORIZED FOR RELEASE: _____

A handwritten signature in blue ink, appearing to be 'L. J. G.', is written over the signature line.

BID FORM

(Submit in Triplicate)

FORCE MAIN 12A REPLACEMENT**Bid "A" Based on Completion Time of 390 Calendar Days**

BID ITEM NO.	DESCRIPTION	U/M	EST. QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
	SIGNALIZATION PAY ITEMS (REFER TO FDOT SPEC'S)				
660-2-106	Loop Assembly (F&I), Type F, 6'x40'	AS	5		
		Signalization Subtotal			
	UTILITY PAY ITEMS				
1	Clearing and Grubbing	AC	4.2		
2	DIP (CL 350) (Direct Bury), Waterline				
2.01	6"	LF	40		
2.02	8"	LF	75		
2.03	16"	LF	65		
3	Ductile Iron Fittings, Waterline				
3.01	6" 45° Bend	EA	2		
3.02	8" 11.25° Bend	EA	2		
3.03	8" 45° Bend	EA	8		
3.04	16" 45° Bend	EA	2		
3.05	16"x8" Tee	EA	1		
4	16" Sleeve Coupling, Romac	EA	6		
5	Tapping Sleeve incl. Valve, 16"x6"	EA	1		
6	New Services, complete				
6.01	Water, single	EA	4		
6.02	Water, double	EA	14		
6.03	Reclaim, single	EA	6		
6.04	Reclaim, double	EA	12		
7	Reduced Pressure Backflow Prevention Assembly /w Pressure Relief Valve	EA	9		
8	Vacuum Breakers	EA	18		
9	DIP (CL 350) (Direct Bury), Force Main				
9.01	20" Flex Ring Joint, RJ	LF	1,145		
9.02	24"	LF	12		
10	20" DIP (CL 350) Flex Ring Joint (Aerial Crossing), Force Main	LS	1		
11	PVC (C900-16) DR 18 (Direct Bury), Force Main				
11.01	4"	LF	85		
11.02	10"	LF	10		
11.03	16"	LF	45		
11.04	20"	LF	2,140		
11.05	24"	LF	6,405		
12	24" HDPE (C-906) DR 11 (Directional Drill), Force Main	LF	565		
13	HDPE MJ Pipe Adapter				
13.01	8"	EA	1		
13.02	24"	EA	2		

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Authorized Signature:_____

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BID ITEM NO.	DESCRIPTION	U/M	EST. QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
14	Ductile Iron Fittings, Wastewater				
14.01	4" Cap	EA	2		
14.02	6"x4" Reducer	EA	2		
14.03	8" Plug	EA	2		
14.04	10" Cap	EA	1		
14.05	16" 45° Bend	EA	5		
14.06	16"x10" Reducer	EA	1		
14.07	20" Sleeve	EA	2		
14.08	20" 11.25° Bend	EA	6		
14.09	20" 22.5° Bend	EA	9		
14.10	20" 45° Bend	EA	19		
14.11	24"x20" Reducer	EA	7		
14.12	24" 11.25° Bend	EA	12		
14.13	24" 22.5° Bend	EA	3		
14.14	24" 45° Bend	EA	28		
14.15	24"x6" Tee	EA	2		
14.16	24"x10" Tee	EA	1		
14.17	24"x16" Tee	EA	1		
14.18	30"x24" Reducer	EA	1		
15	Valve				
15.01	4" Plug, force main	EA	1		
15.02	6" Plug, force main	EA	1		
15.03	10" Plug, force main	EA	1		
15.04	24" Plug, force main	EA	10		
15.05	8" Gate, waterline	EA	1		
15.06	16" Gate, force main	EA	1		
15.07	20" Gate, force main	EA	1		
15.08	16" Butterfly, waterline	EA	2		
16	Connection to Existing Force Main	EA	6		
17	Pipe Restraints				
17.01	10" & under	EA	8		
17.02	16"	EA	5		
17.03	20"	EA	39		
17.04	24"	EA	157		
18	Manhole for Below Ground ARV Assembly, 6 ft Dia.	EA	9		
19	ARV Assembly, Below Ground	EA	9		
20	ARV Assembly, Above Ground	EA	4		

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BID ITEM NO.	DESCRIPTION	U/M	EST. QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
21	Line Stop				
21.01	20"	EA	4		
21.02	30"	EA	1		
22	Temporary Force Main Bypass at Canal	LS	1		
23	Temporary Force Main Bypass at 60th Ave.	LS	1		
24	Master Lift Station Temporary Bypass	LS	1		
25	Grout Abandoned Pipes	CY	978		
26	Erosion and Sediment Control	LS	1		
27	Silt Fence	LF	6,925		
28	Inlet Protection	EA	41		
29	Performance Turf (Bahia Sod)	SY	5,750		
30	Asphalt Road Restoration (Base)				
30.01	8" thick, crushed conc.	SY	11,379		
30.02	10" thick, crushed conc.	SY	3,691		
31	Asphalt Road Restoration (Resurface), 2" S III	SY	15,655		
32	Asphalt Road Restoration, (Mill)	SY	11,138		
33	Asphalt Road Restoration (Overlay), 1.5" S III	SY	11,138		
34	Stabilized Sub Base, (12" LBR 60)	SY	8,900		
35	Concrete Curb & Gutter				
35.01	Miami	LF	480		
35.02	Type AB	LF	2,089		
36	Remove Curb & Gutter	LF	2,569		
37	Driveway Restoration Shell 6" Thick	SY	300		
38	Traffic Control, Signing & Barricades to FDOT Stds.	Days	350		
39	Thermoplastic Striping				
39.01	Std. - White Skip 6" (10'-30')	GM	0.5		
39.02	Std. - White Solid 6"	NM	0.5		
39.03	Std. - Yellow Solid 6"	NM	3.0		
40	Thermoplastic Markings and RPM's	LS	1		
41	Remove & Replace Chain Link Fence	LF	78		
42	Miscellaneous Concrete, 3000 psi	CY	60		
43	Deadman Thrust Blocks				
43.01	20"	EA	4		
43.02	30"	EA	1		
		Utility Subtotal			
	SIDEWALK PAY ITEMS				
44	Relocate Sewer Cleanout	EA	10		
45	Adjust Manhole Lid	EA	4		
46	Flume Sidewalk, FDOT Index 282 Modified	LS	1		
47	Remove Sidewalk/Driveways	SY	1,333		
48	Preparation for Sidewalk (grade shape incl. 6" cut or fill)	SY	4,233		

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BID ITEM NO.	DESCRIPTION	U/M	EST. QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
49	Sidewalk, Concrete 8' wide 4" Thick	SY	2,600		
50	Driveway, Concrete 6" Thick (incl. Ped. ADA Ramps)	SY	1,633		
51	Detectable Warnings	SF	108		
52	Handrail, FDOT Index 850	LF	60		
53	Tree Removal				
53.01	4.1"-6"	EA	7		
53.02	6.1"-12"	EA	6		
53.03	12.1"-24" or Cluster Equivalent	EA	1		
54	Service, relocate				
54.01	Water, single	EA	6		
54.02	Water, double	EA	8		
54.03	Reclaim, double	EA	4		
55	Mailbox, F&I Single	EA	5		
		Sidewalk Subtotal			
56	Mobilization	LS	1		
57	Miscellaneous Work & Clean Up	LS	1		
		Subtotal Base Bid			
58	Contract Contingency Work (Used Only w/ County Approval)			10% OF SUBTOTAL BASE BID	
	TOTAL OFFER FOR BID "A" with Contract Contingency - Based on Completion Time of <u>390</u> Calendar Days				

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FORCE MAIN 12A REPLACEMENT**Alternate Bid "A" Based on Completion Time of 390 Calendar Days**

BID ITEM NO.	DESCRIPTION	U/M	EST. QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
	SIGNALIZATION PAY ITEMS (REFER TO FDOT SPEC'S)				
660-4-11	Vehicle Detection System (F&I), Video, Cabinet Equipment				
	ITERIS Vantage Edge 2 Processor (Dual Channel)	EA	2		
	ITERIS Edge Connect module (MPEG 4)	EA	1		
	ITERIS Vantage Edge2 TS2 I/O module	EA	1		
660-4-12	Vehicle Detection System (F&I), Video, Above Ground Equipment				
	ITERIS Vantage RZ4 Advanced Wide Dynamic Range Color cameras	EA	4		
			Signalization Subtotal		
	UTILITY PAY ITEMS				
1	Clearing and Grubbing	AC	4.2		
2	DIP (CL 350) (Direct Bury), Waterline				
2.01	6"	LF	40		
2.02	8"	LF	75		
2.03	16"	LF	65		
3	Ductile Iron Fittings, Waterline				
3.01	6" 45° Bend	EA	2		
3.02	8" 11.25° Bend	EA	2		
3.03	8" 45° Bend	EA	8		
3.04	16" 45° Bend	EA	2		
3.05	16"x8" Tee	EA	1		
4	16" Sleeve Coupling, Romac	EA	6		
5	Tapping Sleeve incl. Valve, 16"x6"	EA	1		
6	New Services, complete				
6.01	Water, single	EA	4		
6.02	Water, double	EA	14		
6.03	Reclaim, single	EA	6		
6.04	Reclaim, double	EA	12		
7	Reduced Pressure Backflow Prevention Assembly /w Pressure Relief Valve	EA	9		
8	Vacuum Breakers	EA	18		
9	DIP (CL 350) (Direct Bury), Force Main				
9.01	20" Flex Ring Joint, RJ	LF	1,145		
9.02	24"	LF	12		
10	20" DIP (CL 350) Flex Ring Joint (Aerial Crossing), Force Main	LS	1		
11	PVC (C900-16) DR 18 (Direct Bury), Force Main				
11.01	4"	LF	85		
11.02	10"	LF	10		
11.03	16"	LF	45		
11.04	20"	LF	2,140		
11.05	24"	LF	6,405		

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BID ITEM NO.	DESCRIPTION	U/M	EST. QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
12	24" HDPE (C-906) DR 11 (Directional Drill), Force Main	LF	565		
13	HDPE MJ Pipe Adapter				
13.01	8"	EA	1		
13.02	24"	EA	2		
14	Ductile Iron Fittings, Wastewater				
14.01	4" Cap	EA	2		
14.02	6"x4" Reducer	EA	2		
14.03	8" Plug	EA	2		
14.04	10" Cap	EA	1		
14.05	16" 45° Bend	EA	5		
14.06	16"x10" Reducer	EA	1		
14.07	20" Sleeve	EA	2		
14.08	20" 11.25° Bend	EA	6		
14.09	20" 22.5° Bend	EA	9		
14.10	20" 45° Bend	EA	19		
14.11	24"x20" Reducer	EA	7		
14.12	24" 11.25° Bend	EA	12		
14.13	24" 22.5° Bend	EA	3		
14.14	24" 45° Bend	EA	28		
14.15	24"x6" Tee	EA	2		
14.16	24"x10" Tee	EA	1		
14.17	24"x16" Tee	EA	1		
14.18	30"x24" Reducer	EA	1		
15	Valve				
15.01	4" Plug, force main	EA	1		
15.02	6" Plug, force main	EA	1		
15.03	10" Plug, force main	EA	1		
15.04	24" Plug, force main	EA	10		
15.05	8" Gate, waterline	EA	1		
15.06	16" Gate, force main	EA	1		
15.07	20" Gate, force main	EA	1		
15.08	16" Butterfly, waterline	EA	2		
16	Connection to Existing Force Main	EA	6		
17	Pipe Restraints				
17.01	10" & under	EA	8		
17.02	16"	EA	5		
17.03	20"	EA	39		
17.04	24"	EA	157		
18	Manhole for Below Ground ARV Assembly, 6 ft Dia.	EA	9		
19	ARV Assembly, Below Ground	EA	9		
20	ARV Assembly, Above Ground	EA	4		

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FORCE MAIN 12A REPLACEMENT**Alternate Bid "A" Based on Completion Time of 390 Calendar Days**

BID ITEM NO.	DESCRIPTION	U/M	EST. QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
21	Line Stop				
21.01	20"	EA	4		
21.02	30"	EA	1		
22	Temporary Force Main Bypass at Canal	LS	1		
23	Temporary Force Main Bypass at 60th Ave.	LS	1		
24	Master Lift Station Temporary Bypass	LS	1		
25	Grout Abandoned Pipes	CY	978		
26	Erosion and Sediment Control	LS	1		
27	Silt Fence	LF	6,925		
28	Inlet Protection	EA	41		
29	Performance Turf (Bahia Sod)	SY	5,750		
30	Asphalt Road Restoration (Base)				
30.01	8" thick, crushed conc.	SY	11,379		
30.02	10" thick, crushed conc.	SY	3,691		
31	Asphalt Road Restoration (Resurface), 2" S III	SY	15,655		
32	Asphalt Road Restoration, (Mill)	SY	11,138		
33	Asphalt Road Restoration (Overlay), 1.5" S III	SY	11,138		
34	Stabilized Sub Base, (12" LBR 60)	SY	8,900		
35	Concrete Curb & Gutter				
35.01	Miami	LF	480		
35.02	Type AB	LF	2,089		
36	Remove Curb & Gutter	LF	2,569		
37	Driveway Restoration Shell 6" Thick	SY	300		
38	Traffic Control, Signing & Barricades to FDOT Std.	Days	350		
39	Thermoplastic Striping				
39.01	Std. - White Skip 6" (10'-30')	GM	0.5		
39.02	Std. - White Solid 6"	NM	0.5		
39.03	Std. - Yellow Solid 6"	NM	3.0		
40	Thermoplastic Markings and RPM's	LS	1		
41	Remove & Replace Chain Link Fence	LF	78		
42	Miscellaneous Concrete, 3000 psi	CY	60		
43	Deadman Thrust Blocks				
43.01	20"	EA	4		
43.02	30"	EA	1		
		Utility Subtotal			
	SIDEWALK PAY ITEMS				
44	Relocate Sewer Cleanout	EA	10		
45	Adjust Manhole Lid	EA	4		
46	Flume Sidewalk, FDOT Index 282 Modified	LS	1		
47	Remove Sidewalk/Driveways	SY	1,333		
48	Preparation for Sidewalk (grade shape incl. 6" cut or fill)	SY	4,233		

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FORCE MAIN 12A REPLACEMENT**Alternate Bid "A" Based on Completion Time of 390 Calendar Days**

BID ITEM NO.	DESCRIPTION	U/M	EST. QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
49	Sidewalk, Concrete 8' wide 4" Thick	SY	2,600		
50	Driveway, Concrete 6" Thick (incl. Ped. ADA Ramps)	SY	1,633		
51	Detectable Warnings	SF	108		
52	Handrail, FDOT Index 850	LF	60		
53	Tree Removal				
53.01	4.1"-6"	EA	7		
53.02	6.1"-12"	EA	6		
53.03	12.1"-24" or Cluster Equivalent	EA	1		
54	Service, relocate				
54.01	Water, single	EA	6		
54.02	Water, double	EA	8		
54.03	Reclaim, double	EA	4		
55	Mailbox, F&I Single	EA	5		
		Sidewalk Subtotal			
56	Mobilization	LS	1		
57	Miscellaneous Work & Clean Up	LS	1		
		Subtotal Base Bid			
58	Contract Contingency Work (Used Only w/ County Approval)			10% OF SUBTOTAL BASE BID	
	TOTAL OFFER FOR ALTERNATE BID "A" with Contract Contingency - Based on Completion Time of <u>390</u> Calendar Days				

Bidder: _____

Authorized Signature: _____

BID FORM

(Submit in Triplicate)

FORCE MAIN 12A REPLACEMENT**Bid "B" Based on Completion Time of 490 Calendar Days**

BID ITEM NO.	DESCRIPTION	U/M	EST. QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
	SIGNALIZATION PAY ITEMS (REFER TO FDOT SPEC'S)				
660-2-106	Loop Assembly (F&I), Type F, 6'x40'	AS	5		
		Signalization Subtotal			
	UTILITY PAY ITEMS				
1	Clearing and Grubbing	AC	4.2		
2	DIP (CL 350) (Direct Bury), Waterline				
2.01	6"	LF	40		
2.02	8"	LF	75		
2.03	16"	LF	65		
3	Ductile Iron Fittings, Waterline				
3.01	6" 45° Bend	EA	2		
3.02	8" 11.25° Bend	EA	2		
3.03	8" 45° Bend	EA	8		
3.04	16" 45° Bend	EA	2		
3.05	16"x8" Tee	EA	1		
4	16" Sleeve Coupling, Romac	EA	6		
5	Tapping Sleeve incl. Valve, 16"x6"	EA	1		
6	New Services, complete				
6.01	Water, single	EA	4		
6.02	Water, double	EA	14		
6.03	Reclaim, single	EA	6		
6.04	Reclaim, double	EA	12		
7	Reduced Pressure Backflow Prevention Assembly /w Pressure Relief Valve	EA	9		
8	Vacuum Breakers	EA	18		
9	DIP (CL 350) (Direct Bury), Force Main				
9.01	20" Flex Ring Joint, RJ	LF	1,145		
9.02	24"	LF	12		
10	20" DIP (CL 350) Flex Ring Joint (Aerial Crossing), Force Main	LS	1		
11	PVC (C900-16) DR 18 (Direct Bury), Force Main				
11.01	4"	LF	85		
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12	24" HDPE (C-906) DR 11 (Directional Drill), Force Main	LF	565		
13	HDPE MJ Pipe Adapter				
13.01	8"	EA	1		
13.02	24"	EA	2		

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BID ITEM NO.	DESCRIPTION	U/M	EST. QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
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14.01	4" Cap	EA	2		
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14.06	16"x10" Reducer	EA	1		
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14.08	20" 11.25° Bend	EA	6		
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14.13	24" 22.5° Bend	EA	3		
14.14	24" 45° Bend	EA	28		
14.15	24"x6" Tee	EA	2		
14.16	24"x10" Tee	EA	1		
14.17	24"x16" Tee	EA	1		
14.18	30"x24" Reducer	EA	1		
15	Valve				
15.01	4" Plug, force main	EA	1		
15.02	6" Plug, force main	EA	1		
15.03	10" Plug, force main	EA	1		
15.04	24" Plug, force main	EA	10		
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15.06	16" Gate, force main	EA	1		
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BID ITEM NO.	DESCRIPTION	U/M	EST. QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
48	Preparation for Sidewalk (grade shape incl. 6" cut or fill)	SY	4,233		
49	Sidewalk, Concrete 8' wide 4" Thick	SY	2,600		
50	Driveway, Concrete 6" Thick (incl. Ped. ADA Ramps)	SY	1,633		
51	Detectable Warnings	SF	108		
52	Handrail, FDOT Index 850	LF	60		
53	Tree Removal				
53.01	4.1"-6"	EA	7		
53.02	6.1"-12"	EA	6		
53.03	12.1"-24" or Cluster Equivalent	EA	1		
54	Service, relocate				
54.01	Water, single	EA	6		
54.02	Water, double	EA	8		
54.03	Reclaim, double	EA	4		
55	Mailbox, F&I Single	EA	5		
		Sidewalk Subtotal			
56	Mobilization	LS	1		
57	Miscellaneous Work & Clean Up	LS	1		
		Subtotal Base Bid			
58	Contract Contingency Work (Used Only w/ County Approval)			10% OF SUBTOTAL BASE BID	
	TOTAL OFFER FOR BID "B" with Contract Contingency - Based on Completion Time of <u>490</u> Calendar Days				

Bidder:_____

Authorized Signature:_____

BID FORM

(Submit in Triplicate)

FORCE MAIN 12A REPLACEMENT**Alternate Bid "B" Based on Completion Time of 490 Calendar Days**

BID ITEM NO.	DESCRIPTION	U/M	EST. QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
	SIGNALIZATION PAY ITEMS (REFER TO FDOT SPEC'S)				
660-4-11	Vehicle Detection System (F&I), Video, Cabinet Equipment				
	ITERIS Vantage Edge 2 Processor (Dual Channel)	EA	2		
	ITERIS Edge Connect module (MPEG 4)	EA	1		
	ITERIS Vantage Edge2 TS2 I/O module	EA	1		
660-4-12	Vehicle Detection System (F&I), Video, Above Ground Equipment				
	ITERIS Vantage RZ4 Advanced Wide Dynamic Range Color cameras	EA	4		
			Signalization Subtotal		
	UTILITY PAY ITEMS				
1	Clearing and Grubbing	AC	4.2		
2	DIP (CL 350) (Direct Bury), Waterline				
2.01	6"	LF	40		
2.02	8"	LF	75		
2.03	16"	LF	65		
3	Ductile Iron Fittings, Waterline				
3.01	6" 45° Bend	EA	2		
3.02	8" 11.25° Bend	EA	2		
3.03	8" 45° Bend	EA	8		
3.04	16" 45° Bend	EA	2		
3.05	16"x8" Tee	EA	1		
4	16" Sleeve Coupling, Romac	EA	6		
5	Tapping Sleeve incl. Valve, 16"x6"	EA	1		
6	New Services, complete				
6.01	Water, single	EA	4		
6.02	Water, double	EA	14		
6.03	Reclaim, single	EA	6		
6.04	Reclaim, double	EA	12		
7	Reduced Pressure Backflow Prevention Assembly /w Pressure Relief Valve	EA	9		
8	Vacuum Breakers	EA	18		
9	DIP (CL 350) (Direct Bury), Force Main				
9.01	20" Flex Ring Joint, RJ	LF	1,145		
9.02	24"	LF	12		
10	20" DIP (CL 350) Flex Ring Joint (Aerial Crossing), Force Main	LS	1		
11	PVC (C900-16) DR 18 (Direct Bury), Force Main				
11.01	4"	LF	85		
11.02	10"	LF	10		
11.03	16"	LF	45		
11.04	20"	LF	2,140		
11.05	24"	LF	6,405		

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FORCE MAIN 12A REPLACEMENT**Alternate Bid "B" Based on Completion Time of 490 Calendar Days**

BID ITEM NO.	DESCRIPTION	U/M	EST. QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
12	24" HDPE (C-906) DR 11 (Directional Drill), Force Main	LF	565		
13	HDPE MJ Pipe Adapter				
13.01	8"	EA	1		
13.02	24"	EA	2		
14	Ductile Iron Fittings, Wastewater				
14.01	4" Cap	EA	2		
14.02	6"x4" Reducer	EA	2		
14.03	8" Plug	EA	2		
14.04	10" Cap	EA	1		
14.05	16" 45° Bend	EA	5		
14.06	16"x10" Reducer	EA	1		
14.07	20" Sleeve	EA	2		
14.08	20" 11.25° Bend	EA	6		
14.09	20" 22.5° Bend	EA	9		
14.10	20" 45° Bend	EA	19		
14.11	24"x20" Reducer	EA	7		
14.12	24" 11.25° Bend	EA	12		
14.13	24" 22.5° Bend	EA	3		
14.14	24" 45° Bend	EA	28		
14.15	24"x6" Tee	EA	2		
14.16	24"x10" Tee	EA	1		
14.17	24"x16" Tee	EA	1		
14.18	30"x24" Reducer	EA	1		
15	Valve				
15.01	4" Plug, force main	EA	1		
15.02	6" Plug, force main	EA	1		
15.03	10" Plug, force main	EA	1		
15.04	24" Plug, force main	EA	10		
15.05	8" Gate, waterline	EA	1		
15.06	16" Gate, force main	EA	1		
15.07	20" Gate, force main	EA	1		
15.08	16" Butterfly, waterline	EA	2		
16	Connection to Existing Force Main	EA	6		
17	Pipe Restraints				
17.01	10" & under	EA	8		
17.02	16"	EA	5		
17.03	20"	EA	39		
17.04	24"	EA	157		
18	Manhole for Below Ground ARV Assembly, 6 ft Dia.	EA	9		
19	ARV Assembly, Below Ground	EA	9		
20	ARV Assembly, Above Ground	EA	4		

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FORCE MAIN 12A REPLACEMENT**Alternate Bid "B" Based on Completion Time of 490 Calendar Days**

BID ITEM NO.	DESCRIPTION	U/M	EST. QTY.	UNIT PRICE (\$)	EXTENDED PRICE (\$)
21	Line Stop				
21.01	20"	EA	4		
21.02	30"	EA	1		
22	Temporary Force Main Bypass at Canal	LS	1		
23	Temporary Force Main Bypass at 60th Ave.	LS	1		
24	Master Lift Station Temporary Bypass	LS	1		
25	Grout Abandoned Pipes	CY	978		
26	Erosion and Sediment Control	LS	1		
27	Silt Fence	LF	6,925		
28	Inlet Protection	EA	41		
29	Performance Turf (Bahia Sod)	SY	5,750		
30	Asphalt Road Restoration (Base)				
30.01	8" thick, crushed conc.	SY	11,379		
30.02	10" thick, crushed conc.	SY	3,691		
31	Asphalt Road Restoration (Resurface), 2" S III	SY	15,655		
32	Asphalt Road Restoration, (Mill)	SY	11,138		
33	Asphalt Road Restoration (Overlay), 1.5" S III	SY	11,138		
34	Stabilized Sub Base, (12" LBR 60)	SY	8,900		
35	Concrete Curb & Gutter				
35.01	Miami	LF	480		
35.02	Type AB	LF	2,089		
36	Remove Curb & Gutter	LF	2,569		
37	Driveway Restoration Shell 6" Thick	SY	300		
38	Traffic Control, Signing & Barricades to FDOT Stds.	Days	350		
39	Thermoplastic Striping				
39.01	Std. - White Skip 6" (10'-30')	GM	0.5		
39.02	Std. - White Solid 6"	NM	0.5		
39.03	Std. - Yellow Solid 6"	NM	3.0		
40	Thermoplastic Markings and RPM's	LS	1		
41	Remove & Replace Chain Link Fence	LF	78		
42	Miscellaneous Concrete, 3000 psi	CY	60		
43	Deadman Thrust Blocks				
43.01	20"	EA	4		
43.02	30"	EA	1		
		Utility Subtotal			
	SIDEWALK PAY ITEMS				
44	Relocate Sewer Cleanout	EA	10		
45	Adjust Manhole Lid	EA	4		
46	Flume Sidewalk, FDOT Index 282 Modified	LS	1		
47	Remove Sidewalk/Driveways	SY	1,333		
48	Preparation for Sidewalk (grade shape incl. 6" cut or fill)	SY	4,233		

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