

**HARRIS COUNTY
MUNICIPAL UTILITY DISTRICT NO. 172
WATER DISTRIBUTION, WASTEWATER COLLECTION
AND STORM WATER FACILITIES
TO SERVE
TOWNE LAKE, SECTION TWELVE
UNIT BID TABULATION**

ENGINEER'S ESTIMATE: \$651,762.60

BID DATE: October 20, 2009

ITEM	DESCRIPTION	QUANTITY	UNIT	BAY UTILITIES, LLC		C.E. BARKER, LTD.		J.A.H.O., INC.	
				BIDDER NO. 1		BIDDER NO. 2		BIDDER NO. 3	
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
<u>WATER DISTRIBUTION SYSTEM</u>									
1.	12-Inch C-900, PVC Water Line	765	LF	\$18.00	\$13,770.00	\$15.45	\$11,819.25	\$17.65	\$13,502.25
2.	8-Inch C-900, PVC Water Line	1,348	LF	\$11.00	\$14,828.00	\$8.82	\$11,889.36	\$11.05	\$14,895.40
3.	6-Inch C-900, PVC Water Line	695	LF	\$9.00	\$6,255.00	\$6.78	\$4,712.10	\$8.85	\$6,150.75
4.	4-Inch C-900, PVC Water Line	1,389	LF	\$7.00	\$9,723.00	\$5.46	\$7,583.94	\$8.20	\$11,389.80
5.	12-Inch Gate Valve with Box	5	EA	\$1,490.00	\$7,450.00	\$1,529.49	\$7,647.45	\$1,491.00	\$7,455.00
6.	8-Inch Gate Valve with Box	5	EA	\$710.00	\$3,550.00	\$823.65	\$4,118.25	\$779.00	\$3,895.00
7.	6-Inch Gate Valve with Box	10	EA	\$490.00	\$4,900.00	\$588.03	\$5,880.30	\$541.00	\$5,410.00
8.	4-Inch Gate Valve with Box	1	EA	\$450.00	\$450.00	\$478.89	\$478.89	\$431.00	\$431.00
9.	Fire Hydrant	6	EA	\$1,900.00	\$11,400.00	\$1,701.70	\$10,210.20	\$1,576.00	\$9,456.00
10.	6-Inch C-900, PVC Fire Hydrant Lead	41	LF	\$12.00	\$492.00	\$17.47	\$716.27	\$16.15	\$662.15
11.	Remove and Dispose of Existing 12-Inch Plug and Clamp and 2-Inch Blow-Off Valve	1	EA	\$100.00	\$100.00	\$40.80	\$40.80	\$51.00	\$51.00
12.	Remove and Dispose of Existing 8-Inch Plug and Clamp and 2-Inch Blow-Off Valve	1	EA	\$100.00	\$100.00	\$40.80	\$40.80	\$51.00	\$51.00
13.	12-Inch Wet Connection	1	EA	\$100.00	\$100.00	\$587.32	\$587.32	\$51.00	\$51.00
14.	8-Inch Wet Connection	1	EA	\$100.00	\$100.00	\$507.71	\$507.71	\$51.00	\$51.00
15.	12-Inch Plug and Clamp	1	EA	\$300.00	\$300.00	\$170.87	\$170.87	\$73.00	\$73.00

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				BIDDER NO. 1		BIDDER NO. 2		BIDDER NO. 3	
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
16.	4-Inch Plug and Clamp	5	EA	\$220.00	\$1,100.00	\$104.25	\$521.25	\$31.00	\$155.00
17.	2-Inch Blow-Off Valve with Box Including Check Valve	6	EA	\$330.00	\$1,980.00	\$507.55	\$3,045.30	\$464.00	\$2,784.00
18.	Ductile Iron Fittings	3.0	TONS	\$100.00	\$300.00	\$1,067.60	\$3,202.80	\$1,236.00	\$3,708.00
19.	Trench Safety	4,238	LF	\$0.10	\$423.80	\$0.08	\$339.04	\$0.05	\$211.90
	TOTAL WATER DISTRIBUTION SYSTEM:				\$77,321.80		\$73,511.90		\$80,383.25
	<u>WASTEWATER COLLECTION SYSTEM</u>								
1.	8-Inch SDR-26, PVC Sanitary Sewer (all depths)	3,186	LF	\$18.00	\$57,348.00	\$13.99	\$44,572.14	\$17.80	\$56,710.80
2.	Standard City of Houston 4-Foot Diameter Sanitary Sewer Manhole	19	EA	\$1,150.00	\$21,850.00	\$1,383.12	\$26,279.28	\$958.00	\$18,202.00
3.	Standard City of Houston 4-Foot Diameter Sanitary Sewer Manhole with Drop Connection	3	EA	\$1,500.00	\$4,500.00	\$1,751.00	\$5,253.00	\$1,246.00	\$3,738.00
4.	Extra Depth for Manhole (over 8-foot deep)	81	VF	\$58.00	\$4,698.00	\$85.00	\$6,885.00	\$57.00	\$4,617.00
5.	Long Side Sanitary Sewer Service Lead	13	EA	\$770.00	\$10,010.00	\$1,238.49	\$16,100.37	\$974.00	\$12,662.00
6.	Long Side Sanitary Sewer Service Lead with Stack	6	EA	\$1,030.00	\$6,180.00	\$1,691.32	\$10,147.92	\$1,319.00	\$7,914.00
7.	Short Side Sanitary Sewer Service Lead	9	EA	\$310.00	\$2,790.00	\$351.86	\$3,166.74	\$485.00	\$4,365.00
8.	Short Side Sanitary Sewer Service Lead with Stack	5	EA	\$500.00	\$2,500.00	\$643.14	\$3,215.70	\$795.00	\$3,975.00

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				BIDDER NO. 1		BIDDER NO. 2		BIDDER NO. 3	
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
9.	Remove and Dispose of Existing 8-Inch SDR-26, PVC Sanitary Sewer Stub and Plug and Connect Proposed 8-Inch SDR-26, PVC Sanitary Sewer Pipe to Existing Sanitary Sewer Manhole	1	EA	\$100.00	\$100.00	\$55.08	\$55.08	\$1,545.00	\$1,545.00
10.	Well Point De-Watering for Sanitary Sewer Construction (only as directed by the Engineer; minimum bid \$25.00/LF)	1,748	LF	\$25.00	\$43,700.00	\$25.00	\$43,700.00	\$25.00	\$43,700.00
11.	Crushed Stone Foundation with Filter Fabric Wrap as per City of Houston Detail No. 02317-02 (only as directed by the Engineer; minimum bid \$10.00/LF)	1,748	LF	\$10.00	\$17,480.00	\$10.00	\$17,480.00	\$10.00	\$17,480.00
12.	Crushed Stone Foundation and Embedment with Filter Fabric Wrap as per City of Houston Detail No. 02317-01 (only as directed by the Engineer; minimum bid \$25.00/LF)	874	LF	\$25.00	\$21,850.00	\$25.00	\$21,850.00	\$25.00	\$21,850.00
13.	Trench Safety System	3,186	LF	\$0.10	\$318.60	\$0.08	\$254.88	\$0.05	\$159.30
TOTAL WASTEWATER COLLECTION SYSTEM:					\$193,324.60		\$198,960.11		\$196,918.10
<u>STORM WATER COLLECTION SYSTEM</u>									
1.	7-Foot x 2-Foot, C-789, Reinforced Concrete Box Storm Sewer	98	LF	\$180.00	\$17,640.00	\$175.11	\$17,160.78	\$147.65	\$14,469.70
2.	5-Foot x 3-Foot, C-789, Reinforced Concrete Box Storm Sewer	184	LF	\$125.00	\$23,000.00	\$120.78	\$22,223.52	\$113.50	\$20,884.00
3.	26 5/8-Inch x 43 3/4-Inch, C-506, Reinforced Concrete Arch Pipe Storm Sewer	183	LF	\$89.00	\$16,287.00	\$73.56	\$13,461.48	\$129.60	\$23,716.80

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				BIDDER NO. 1		BIDDER NO. 2		BIDDER NO. 3	
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
4.	24-Inch CL III, R/G RCP Storm Sewer	1,138	LF	\$32.00	\$36,416.00	\$30.78	\$35,027.64	\$30.50	\$34,709.00
5.	24-Inch CL III R/G RCP Storm Sewer Inlet Lead	562	LF	\$34.00	\$19,108.00	\$30.78	\$17,298.36	\$40.00	\$22,480.00
6.	Standard Type "C" Storm Sewer Manhole (24"-42")	14	EA	\$1,300.00	\$18,200.00	\$1,570.80	\$21,991.20	\$1,339.00	\$18,746.00
7.	Standard Type "C" Storm Sewer Manhole (24"-42") with E-Inlet Top	2	EA	\$1,400.00	\$2,800.00	\$1,462.00	\$2,924.00	\$1,854.00	\$3,708.00
8.	Standard Type "C" Storm Sewer Manhole (48"-72")	3	EA	\$2,100.00	\$6,300.00	\$2,617.32	\$7,851.96	\$2,652.00	\$7,956.00
9.	Standard Type "C" Storm Sewer Manhole (78" or Larger")	3	EA	\$3,400.00	\$10,200.00	\$4,240.14	\$12,720.42	\$3,914.00	\$11,742.00
10.	Construct Proposed Full Depth Standard Type "C" Storm Sewer Manhole on Existing 42-Inch RCP Storm Sewer Resulting from Proposed 26 5/8-Inch x 43 3/4-Inch Reinforced Concrete Arch Pipe Storm Sewer Tie-In; Including, but not Limited to, De-Watering of Lake Water from the Existing Subject Storm Sewer Outfall Pipe as Required for Full Depth Standard Type "C" Storm Sewer Manhole Construction by Means Other than an Earthen Cofferdam	1	EA	\$4,900.00	\$4,900.00	\$4,892.60	\$4,892.60	\$4,609.00	\$4,609.00
11.	Re-Construct Proposed Full Depth Standard Type "C" Storm Sewer Manhole on Existing 60-Inch Storm Sewer Resulting from Proposed 7-Foot x 2-Foot, Reinforced Concrete Box Storm Sewer and 24-Inch Storm Sewer Inlet Lead Tie-In(s); Including, but not Limited to, De-Watering of Lake Water from the Existing Subject Storm Sewer Outfall Pipe as Required for Full Depth Standard Type "C" Storm Sewer Manhole Construction by Means Other than an Earthen Cofferdam (only as directed and as authorized by the Engineer)	1	EA	\$6,000.00	\$6,000.00	\$6,517.80	\$6,517.80	\$3,682.00	\$3,682.00

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				BIDDER NO. 1		BIDDER NO. 2		BIDDER NO. 3	
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
12.	Re-Construct Type "C" Storm Sewer Manhole on Existing 24-Inch Storm Sewer Resulting from 26 5/8-Inch x 43 3/4-Inch Reinforced Concrete Arch Pipe Storm Sewer and 24-Inch Storm Sewer Tie-In(s) (only as directed and as authorized by the Engineer)	1	EA	\$1,600.00	\$1,600.00	\$3,177.30	\$3,177.30	\$1,339.00	\$1,339.00
13.	Standard Type "H-2" Storm Sewer Inlet	17	EA	\$1,300.00	\$22,100.00	\$1,030.20	\$17,513.40	\$999.00	\$16,983.00
14.	Adjust Existing Storm Sewer Manhole to Match Surrounding Natural Ground; Including Re-Setting Ring and Cover	1	EA	\$100.00	\$100.00	\$81.60	\$81.60	\$258.00	\$258.00
15.	Break Out and Connect Proposed 24-Inch RCP Storm Sewer Pipe to Existing Type "C" Storm Sewer Manhole; Including, but not Limited to, De-Watering of Lake Water from the Existing Subject Storm Sewer Outfall Pipe by Means Other than an Earthen Cofferdam (only as directed by the Engineer)	1	EA	\$1,800.00	\$1,800.00	\$4,049.40	\$4,049.40	\$2,060.00	\$2,060.00
16.	Break Out and Connect Proposed 24-Inch RCP Storm Sewer Pipe to Existing Type "C" Storm Sewer Manhole	1	EA	\$210.00	\$210.00	\$1,958.40	\$1,958.40	\$515.00	\$515.00
17.	8-Inch Thick Brick Plug on Existing 5-Foot x 3-Foot, C-789, Reinforced Concrete Box Storm Sewer (only as directed by the Engineer)	1	EA	\$290.00	\$290.00	\$540.60	\$540.60	\$670.00	\$670.00

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				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
18.	Remove and Dispose of Existing 42-Inch RCP Storm Sewer; Backfill Trench/Earthen Void with On-Site Insitu Material and Regrade All Disturbed Areas as Required and as Indicated on the Approved Construction Drawings in Maximum 8-Inch Lifts (Loose Measure) to 95% SPD, ± 2% Optimum Moisture (including hydromulch seeding of storm sewer easement; inclusive of watering, fertilizing, mowing and maintenance until a stand of Bermuda Grass has been established and all governing agencies have inspected and accepted the subject project)	130	LF	\$13.00	\$1,690.00	\$14.28	\$1,856.40	\$26.00	\$3,380.00
19.	Remove and Dispose of Existing 24-Inch RCP Storm Sewer; Backfill Trench/Earthen Void with On-Site Insitu Material and Regrade All Disturbed Areas as Required and as Indicated on the Approved Construction Drawings in Maximum 8-Inch Lifts (Loose Measure) to 95% SPD, ± 2% Optimum Moisture (including hydromulch seeding of storm sewer easement; inclusive of watering, fertilizing, mowing and maintenance until a stand of Bermuda Grass has been established and all governing agencies have inspected and accepted the subject project)	40	LF	\$10.00	\$400.00	\$9.18	\$367.20	\$32.00	\$1,280.00
20.	Remove and Dispose of Existing Type "C" Storm Sewer Manhole(s) Including Inlet Tops; Backfill Trench/Earthen Void with On-Site Insitu Material and Regrade All Disturbed Areas as Required and as Indicated on the Approved Construction Drawings in Maximum 8-Inch Lifts (Loose Measure) to 95% SPD, ± 2% Optimum Moisture (including hydromulch seeding of storm sewer easement; inclusive of watering, fertilizing, mowing and maintenance until a stand of Bermuda Grass has been established and all governing agencies have inspected and accepted the subject project)	4	EA	\$210.00	\$840.00	\$142.80	\$571.20	\$515.00	\$2,060.00

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				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
21.	Well Point De-Watering as Required for Storm Sewer Manhole Re-Construction and Removal and Disposal of Storm Sewer Pipe (only as directed and as authorized by the Engineer; (minimum bid \$25.00/LF)	180	LF	\$25.00	\$4,500.00	\$25.00	\$4,500.00	\$30.00	\$5,400.00
22.	Trench Safety	2,165	LF	\$0.10	\$216.50	\$0.08	\$173.20	\$0.05	\$108.25
TOTAL STORM WATER COLLECTION SYSTEM:					\$194,597.50		\$196,858.46		\$200,755.75
STORM WATER POLLUTION PREVENTION PLAN									
1.	Stage One Type Type "E" and Type "H-2" Storm Sewer Inlet Protection Barriers (oak timbers wrapped with filter fabric material on top of inlet and reinforced filter fabric fence barriers, RFFF as described above, surrounding the inlet, as indicated on the SWPPP details plan sheet)	19	EA	\$42.00	\$798.00	\$48.96	\$930.24	\$52.00	\$988.00
2.	Enforcement of TPDES Requirements and General Source Controls; Including Filing NOI and NOT, Jobsite Postings, Regular Inspections, Filing Reports, etc. as Required for SWPPP Compliance for Duration of Underground Utility Construction Project; Contractor is to Practice Good Housekeeping Rules at All Times During Construction and is Responsible to Repair All Damage to the Control Measures as a Result of their own Construction Activities; Storm Water Solutions will be Responsible for Complete SWPPP Compliance for the Developer and for the Repair of Any and All Damage to the Control Measures Caused by Parties Other than the Contractor	1	LS	\$420.00	\$420.00	\$765.00	\$765.00	\$515.00	\$515.00
TOTAL STORM WATER POLLUTION PREVENTION PLAN:					\$1,218.00		\$1,695.24		\$1,503.00

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				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
<u>BID SUMMARY</u>									
1.	Water Distribution System				\$77,321.80		\$73,511.90		\$80,383.25
2.	Wastewater Collection System				\$193,324.60		\$198,960.11		\$196,918.10
3.	Storm Water Collection System				\$194,597.50		\$196,858.46		\$200,755.75
4.	Storm Water Pollution Prevention Plan				\$1,218.00		\$1,695.24		\$1,503.00
5.	One-Time Only Construction Staking Service (minimum bid \$18,750.00)				\$18,750.00		\$18,750.00		\$18,750.00
6.	Post Construction Topographic Verification of Underground Utilities and Record Drawing Preparation (minimum bid \$8,750.00)				\$8,750.00		\$8,750.00		\$8,750.00
TOTAL AMOUNT BID:					\$493,961.90		\$498,525.71		\$507,060.10

NOTE: Towne Lake detention basin/lake excavation spoil is currently being placed and graded on the entire Towne Lake project site. The natural ground elevations shown in the profile views of the Construction Drawings are approximate and may reflect the natural ground conditions prior to the placement and grading of the mentioned detention basin/lake excavation spoil material. Since the underground utilities (to be constructed for this project) are designated to be "all depths", the Contractor will NOT be additionally compensated for the "extra depth" construction of the underground utilities for this project through the filled, graded and modified natural ground conditions/areas that have taken place prior to the commencement of the construction of this project.

NOTE: Earthen coffer dams of any kind in the existing lake will not be allowed for storm sewer construction on this project.