WESTRA CONSULTANTS

Opinion of Probable Construction Cost

Client: City of Coppell
Project: Woodhurst Drive Reconstruction
Project No.: CPL20029

Title: OPCC for Engineering Fee Calculation

Date: 12-Oct-20
Prepared By: ARG
Checked By: RNR
Sheet: 1

No.	Spec Item	Item Description	Quantity	Unit	Unit Cost	Item Cost
		General Items				
		Mobilization	1	LS	$ 154,869.30	$ 154,869.30
		Right of Way Preparation	1	LS	$ 116,151.98	$ 116,151.98
		Project Sign	1	EA	$ 750.00	$ 750.00
		Project Communication	1	LS	$ 25,000.00	$ 25,000.00
		Pre- and Post- Project Video Survey	1	LS	$ 10,000.00	$ 10,000.00
		Furnish, Install, Maintain & Remove Erosion Control Devices	1	LS	$ 20,000.00	$ 20,000.00
		Prepare, Furnish, Install & Maintain Temporary Traffic Control Devices & Detours	1	LS	$ 30,000.00	$ 30,000.00
					Sub Total	**$ 356,771.28**
		Waterline Improvements				
		8” PVC Class 200 DR-14 Water Line	3,400	LF	$ 90.00	$ 306,000.00
		Abandon Existing 8” Water Line	3,400	LF	$ 20.00	$ 68,000.00
		6" PVC Class 200 DR-14 Water Line	200	LF	$ 50.00	$ 10,000.00
		Abandon Existing 6” Water Line	200	LF	$ 20.00	$ 4,000.00
		8” Gate Valve	16	EA	$ 1,700.00	$ 27,200.00
		6” Gate Valve	6	EA	$ 1,500.00	$ 9,000.00
		Remove Existing 8" Gate Valve	16	EA	$ 150.00	$ 2,400.00
		Remove and Replace Standard Fire Hydrant Assembly	8	EA	$ 4,500.00	$ 36,000.00
		3/4" Residential Water Service and Meter	81	EA	$ 1,750.00	$ 141,750.00
		Adjust Existing Water Meter Box to Grade	81	EA	$ 200.00	$ 16,200.00
		Connect to Existing Water Line as shown on plans	8	EA	$ 1,500.00	$ 12,000.00
		Water Line Ductile Iron Fittings	3	TN	$ 6,300.00	$ 18,900.00
		Trench Safety for Water Line Improvements	3,550	LF	$ 2.00	$ 7,100.00

No.	Spec Item	Item Description	Quantity	Unit	Unit Cost	Item Cost
		Adjust Existing Irrigation Valve Box to Grade	81	EA	$ 200.00	$ 16,200.00
		Contingency for Waterline Improvements	1	LS	$ 20,000.00	$ 20,000.00
					Sub Total	**$ 694,750.00**
		Sanitary Sewer Improvements				
		Pre-Television Existing Sanitary Sewer Lines	3,400	LF	$ 2.00	$ 6,800.00
		8" PVC SDR-26 or SDR-35 Sewer Pipe	3,400	LF	$ 115.00	$ 391,000.00
		Abandon Existing Sanitary Sewer Pipe	3,400	LF	$ 20.00	$ 68,000.00
		4’ Diameter Sanitary Sewer Manhole	7	EA	$ 5,500.00	$ 38,500.00
		Remove Existing Sanitary Sewer Manhole	7	EA	$ 1,500.00	$ 10,500.00
		4-inch SDR-26 PVC Residential Sanitary Sewer Lateral	81	EA	$ 1,500.00	$ 121,500.00
		Connect to Existing Sanitary Sewer Pipe as shown on plans	1	EA	$ 1,700.00	$ 1,700.00
		Trench Safety for Sanitary Sewer (Up to 22-feet)	3,400	LF	$ 2.00	$ 6,800.00
		Post-Television All New Sanitary Sewer Lines	3,400	LF	$ 2.00	$ 6,800.00
		Contingency for Sewer Line Improvements	1	LS	$ 20,000.00	$ 20,000.00
					Sub Total	**$ 671,600.00**
		Storm Drain and Culvert Improvements				
		Pre-Television Existing Storm Drain Lines	1,100	LF	$ 2.50	$ 2,750.00
		Remove Existing Large Curb Inlet Major (10’-20’)	12	EA	$ 1,500.00	$ 18,000.00
		Remove Existing 21” RCP Storm Drain	156	LF	$ 20.00	$ 3,120.00
		Remove Existing 30” RCP Storm Drain	156	LF	$ 25.00	$ 3,900.00
		Remove Existing 36” RCP Storm Drain	383	LF	$ 35.00	$ 13,405.00
		21” Reinforced Concrete Pipe Storm Drain	156	LF	$ 100.00	$ 15,600.00
		30” Reinforced Concrete Pipe Storm Drain	156	LF	$ 150.00	$ 23,400.00
		36” Reinforced Concrete Pipe Storm Drain	383	LF	$ 280.00	$ 107,240.00
		5'x3’ Reinforced Concrete Box Storm Drain	104	LF	$ 450.00	$ 46,800.00
		10’ Standard Curb Inlet	12	EA	$ 5,500.00	$ 66,000.00
		36” TxDOT Type CH-FW-0 Headwall	1	EA	$ 6,000.00	$ 6,000.00
		Dual 5' X 3' TxDOT Headwall	2	EA	$ 15,000.00	$ 30,000.00
		Remove Existing Stone Rip Rap	250	SY	$ 5.00	$ 1,250.00

No.	Spec Item	Item Description	Quantity	Unit	Unit Cost	Item Cost
		Install Stone Rip Rap (Match Existing)	250	SY	$ 80.00	$ 20,000.00
		Pedestrian Handrail	60	LF	$ 45.00	$ 2,700.00
		Temporary Trench Repair	1,800	SY	$ 14.00	$ 25,200.00
		Trench Safety for Drainage Improvements	695	LF	$ 2.00	$ 1,390.00
		Contengency for Drainage Improvements	1	LS	$ 20,000.00	$ 20,000.00
					Sub Total	**$ 406,755.00**
		Concrete Flume Improvements				
		Remove & Dispose of Existing Concrete Pavement and Flume	60	SY	$ 15.00	$ 900.00
		Unclassified Excavation	20	CY	$ 25.00	$ 500.00
		4” Reinforced Concrete Drainage Flume	60	SY	$ 150.00	$ 9,000.00
		Subgrade Preparation	700	SY	$ 20.00	$ 14,000.00
		Top Soil	25	SY	$ 7.50	$ 187.50
		Bermuda Sod	85	SY	$ 6.00	$ 510.00
					Sub Total	**$ 25,097.50**
		Paving Improvements				
		Remove & Dispose of Existing Concrete Pavement - All Thickness	14,053	SY	$ 15.00	$ 210,795.00
		Unclassified Excavation	3,358	CY	$ 20.00	$ 67,160.00
		6" Reinforcement Concrete Street Pavement	10,953	SY	$ 75.00	$ 821,475.00
		Cement or Lime Stabilization (Based on Geo Tech)	12,575	SY	$ 20.00	$ 251,500.00
		4” Reinforced Concrete Sidewalk	20,400	SF	$ 15.00	$ 306,000.00
		TxDOT Standard Pedestrian Ramp	12	EA	$ 150.00	$ 1,800.00
		Remove and Replace Mail Boxes	81	EA	$ 50.00	$ 4,050.00
		Repair,Replace, Modify and Restore Irrigation Systems	1	LS	$ 75,000.00	$ 75,000.00
		Relocate Exiting Street Lights	8	EA	$ 5,000.00	$ 40,000.00
		Restore Parkways and Disturbed Areas	34	EA	$ 3,000.00	$ 102,000.00
		Tree Removal	3	EA	$ 500.00	$ 1,500.00
		Place New Trees	3	EA	$ 1,000.00	$ 3,000.00
		Remove and Replace Street Signs	6	EA	$ 750.00	$ 4,500.00
		Pavement Striping Markings	1	LS	$ 3,000.00	$ 3,000.00

No.	Spec Item	Item Description	Quantity	Unit	Unit Cost	Item Cost
		2” PVC Schedule 40 Conduit (Trench)	3,400	LF	$ 15.00	$ 51,000.00
		Contingency for Paving Improvments	1	LS	$ 20,000.00	$ 20,000.00
		Contingency for Landscape Improvements	1	LS	$ 25,000.00	$ 25,000.00
					Sub Total	**$ 1,987,780.00**

Basis for Cost Projection:

- ☑ No Design Completed
- ☐ Preliminary Design
- ☐ Final Design

Subtotal:		$ 4,142,754
Conting. (%,+/-)	15	$ 621,413
Total:		**$ 4,764,167**

This total does not reflect engineering or technical services.