Engineer's Opinion of Estimated Costs for Public Improvements
The Ridge at Ward Station

*** All Quantities provided as courtesy. Contractor to verify all quanities per plans.*

4/8/2019

All Costs Include Labor and Materials. 'Street furniture' does *not* include labor costing

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
	ON-SITE PUBLIC IMPROVEMENTS				
	Earthwork (In Public ROW)				
	Mobilizaton	1	LS	$5,000.00	$5,000.00
	Cut to Place	9,400	C.Y.	$2.50	$23,500.00
	Transportation				
	Asphalt Paving	7,860	S.Y.	$25.00	$196,500
	Subgrade Prep	7,860	S.Y.	$1.30	$10,218
	Mill & Overlay	29,400	S.F.	$3.00	$88,200
	Concrete Alleys	10,400	S.Y.	$60.00	$624,000
	Enhanced Pavement Crossing	1,130	S.F.	$15.00	$16,950
	Curb Gutter	4,775	L.F.	$18.00	$85,950
	Cross Pans	1,425	S.F.	$11.00	$15,675
	Sidewalks (6' Wide)	3,875	L.F.	$30.00	$116,250
	Sidewalks (8' Wide)	900	L.F.	$45.00	$40,500
	Hardscape (off street-paseos)	2,275	L.F.	$25.00	$56,875
	Handicap Ramps	16	E.A.	$2,300.00	$36,800
	Striping	1,100	L.F.	$3.00	$3,300
	Signage	18	E.A.	$300.00	$5,400
	Public Street Lighting	17	E.A.	$3,500.00	$59,500
	Public Street Lighting (Pedestrian)	18	E.A.	$2,500.00	$45,000
	Decomposed Granite (Crusher Fines)	509	S.F.	$2.75	$1,400
	Water				
	Water Main 4 inch (Includes all fittings and thrust blocks)	525	L.F.	$25.00	$13,125
	Water Main 8 inch (Includes all fittings and thrust blocks)	4,160	L.F.	$39.00	$162,240
	Connections to Existing WL	4	E.A.	$1,000.00	$4,000
	Saw Cut & Pavement Replacement	150	L.F.	$15.00	$2,250
	Reducer 8"x4"	5	E.A.	$550.00	$2,750
	Tees 8"x8"	11	E.A.	$750.00	$8,250
	Crosses 8"x8"	1	E.A.	$950.00	$950
	Horizontal Bends (22.5, 45)	15	E.A.	$400.00	$6,000
	Vertical Bends (45)	8	E.A.	$450.00	$3,600
	8" Gate Valve	28	E.A.	$1,750.00	$49,000
	Blow-Offs 2"	9	E.A.	$800.00	$7,200
	Fire Hydrant Assembly	6	E.A.	$5,400.00	$32,400
	Fire Hydrant Relocate Existing	4	E.A.	$3,500.00	$14,000
	Water Meters 3/4"	200	E.A.	$1,400.00	$280,000
	Irrigation Meters 1 1/2" & Meter Pit	1	E.A.	$2,000.00	$2,000
	Sanitary Sewer				
	Sanitary Main 8 inch	4,720	L.F.	$48.00	$226,560
	Connections to Existing San Sewer	2	E.A.	$1,900.00	$3,800
	Saw Cut & Pavement Replacement	1,000	L.F.	$15.00	$15,000
	4' Sanitary Sewer MH	41	E.A.	$3,300.00	$135,300
	Service Line Connections including WYE tap	201	E.A.	$1,050.00	$211,050
	Drainage				
	18" Storm Sewer (RCP)	400	L.F	$50.00	$20,000
	24" Storm Sewer (RCP)	930	L.F	$65.00	$60,450
	30" Storm Sewer (RCP)	350	L.F	$85.00	$29,750
	5' Storm MH	6	E.A.	$3,300.00	$19,800
	5' Type R Inlet	7	E.A.	$7,200.00	$50,400
	10' Type R Inlet	8	E.A.	$9,200.00	$73,600
	Valley Inlet	2	E.A.	$4,500.00	$9,000
	Underground Detention A (North)	1	E.A.	$350,000.00	$350,000
	Underground Detention B (South)	1	E.A.	$215,000.00	$215,000
	Retaining Walls	80	L.F.	$75.00	$6,000

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
	Monuments				
	Primary	1	L.S	$18,000.00	$18,000
	Secondary	3	L.S	$7,500.00	$22,500
	Park Equipment				
	Body Curl Station	1	E.A	$1,536.00	$1,536
	Parallel Bar	1	E.A	$739.00	$739
	Accessible Chin Up	1	E.A	$1,357.00	$1,357
	Street Furniture				
	Bench	35	E.A.	$1,123.00	$39,305
	Bike rack	8	L.S.	$2,900.00	$2,900
	Removeable Bollard	4	E.A.	$244.00	$976
	Fence Type 1 (wood)	1,192	L.F.	$55.00	$65,560
	Fence Type 2 (metal) - Labor included	119	L.F	$58.52	$6,964
	Pedestrian Gate	2	E.A.	$650.00	$1,300
	Landscape (ROW & Tract U & Tract W)				
	Turf	40,402	S.F.	$1.00	$40,402
	Shrub Bed (includes edger)	14,346	S.F.	$5.50	$78,904
	Large Deciduous Tree	138	E.A.	$550.00	$75,900
	Evergreen Tree	11	E.A.	$550.00	$6,050
	Ornamental Tree	3	E.A.	$450.00	$1,350
	ENT	6,400	S.F.	$0.50	$3,200
	Irrigation	54,748	S.F.	$1.50	$82,122
	Rock Mulch in shrub beds	190	TN	$45.60	$8,664
	Wood Mulch in shrub beds	27	C.Y.	$19.25	$512
					$3,902,733.48
	15% Contingency				$585,410.02
	Total On-Site Public Improvements				$4,488,143.50

	WARD RD (CDOT)				
	Transportation				
	Paving	1,060	S.Y.	$32.07	$33,994
	Subgrade Prep	1,060	S.Y.	$1.30	$1,378
	Curb Gutter	700	L.F.	$18.00	$12,600
	Cross Pans	675	S.F.	$11.00	$7,425
	Sidewalks (5' Wide)	0	L.F.	$25.00	$0
	Sidewalks (8' Wide)	650	L.F.	$40.00	$26,000
	Handicap Ramps	4	E.A.	$2,300.00	$9,200
	Utility Relocation (Telephone)	1	E.A.	$7,500.00	$7,500
	Striping	650	L.F.	$3.00	$1,950
	Signage	4	E.A.	$300.00	$1,200
	Public Street Lighting	4	E.A.	$3,500.00	$14,000
	Public Street Lighting (Pedestrian)	2	E.A.	$2,500.00	$5,000
					$120,247
	15% Contingency				$18,037.1
	Total CDOT Improvements				$138,284.3

	Grand Total	**$4,626,427.78**