

Engineer's Opinion of Estimated Costs for Public/Private Improvements
Affinity at Castle Rock CD22-0053

All Costs Include Labor and Materials.

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
<u>PUBLIC IMPROVEMENTS TO BE INSPECTED</u>					
	<u>Earthwork</u>				
	Mobilization	1	EA	\$10,000	\$10,000.00
	<u>Demolition</u>				
	Demo Ex. Curb & Gutter	350	LF	\$9	\$3,150.00
	Demo Ex. Crossspan	100	LF	\$25	\$2,500.00
	Demo Ex. Gravel Access Road	1700	SY	\$12	\$20,400.00
	Demo Ex. Curb Ramps	2	EA	\$800	\$1,600.00
	Demo Ex. Trailhead Sign	1	EA	\$500	\$500.00
	Demo Ex. Storm Manhole	1	EA	\$500	\$500.00
	Demo Ex. 30" FES	1	EA	\$100	\$100.00
	Demo Ex. 30" RCP	80	LF	\$10	\$800.00
	Demo. Raw Waterline Headwall	1	EA	\$1000	\$1,000.00
	Demo Fence	1600	LF	\$5	\$8,000.00
	<u>Transportation</u>				
	Paving	40	SY	\$22	\$880.00
	Subgrade Prep	360	SF	\$2	\$720.00
	Vertical Curb	150	LF	\$9	\$1,350.00
	Cross Pans	100	LF	\$25	\$2,500.00
	Handicap Ramps	2	EA	\$3,500	\$7,000.00
	Striping	50	LF	\$5	\$250.00
	<u>Water</u>				
	Water Mains 8"	2920	LF	\$35	\$102,200.00
	Water Mains 12"	275	LF	\$45	\$12,375.00
	Connections to Existing WL	2	EA	\$1,000	\$2,000.00
	Water Main Lowerings	4	EA	\$3,000	\$12,000.00
	8" 90° Bend	1	EA	\$800	\$800.00
	8" 45° Bend	14	EA	\$800	\$11,200.00
	8" 22.5° Bend	13	EA	\$800	\$10,400.00
	8" 11.25° Bend	10	EA	\$800	\$8,000.00
	8" Valve	19	EA	\$1,000	\$19,000.00
	8" X 8" Tee	7	EA	\$900	\$6,300.00
	12" X 8" Tee	1	EA	\$900	\$900.00
	12" Valve	2	EA	\$1,100	\$2,200.00
	12" 45° Bend	2	EA	\$1000	\$2,000.00
	12" 11.25° Bend	5	EA	\$1000	\$5,000.00
	Fire Hydrant Assembly	8	EA	\$5,000	\$40,000.00
	8" Domestic Service Line (from the main to the curb stop)	150	LF	\$10	\$1,500.00
	1" Irrigation Meters	1	EA	\$4,000	\$4,000.00
	1" Irrigation Line	22	LF	\$15	\$330.00
	<u>Sanitary Sewer</u>				
	Sanitary Mains 8 inch	460	LF	\$40	\$18,400.00
	Adjust Ex. SSMH Covers to Finished Grade	2	EA	\$2000	\$4,000.00
	Connections to Existing San Sewer	1	EA	\$1,500	\$1,500
	Saw Cut & Pavement Replacement	0	SF	\$30	\$0
	4 ft diameter Manholes (8 ft to 15 ft depth)	9	EA	\$4,000	\$36,000
	8" Wye connections for service lines	4	EA	\$750	\$3,000

	<u>Drainage</u>				
	18" RCP	850	LF	\$50	\$42,500
	24" RCP	530	LF	\$65	\$34,450
	Manholes	14	EA	\$3,700	\$51,800
	5' Type R Inlet	1	EA	\$4,600	\$4,600
	10' Type R Inlet	1	EA	\$8,000	\$8,000
	Type C Structure Mod.	2	EA	\$5,000	\$10,000
	Flared End Section	1	EA	\$3,000	\$3,000
	Forebay	4	EA	\$10,000	\$40,000
	Subtotal (public improvements) cost				\$558,705
	10% Contingency				\$55,871
	Grand Total (public improvements to be inspected)				\$614,576
	Total Surety Amount (Grand Total x 1.15)				\$706,762

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
	<u>PRIVATE IMPROVEMENTS TO BE INSPECTED</u>				
	<u>Earthwork</u>				
	Cut/Fill	57000	CY	\$1.90	\$108,300
	<u>Sanitary Sewer</u>				
	Sanitary Mains 8 inch	460	LF	\$40	\$18,400.00
	Wye Fittings	5	EA	\$500	\$2,500.00
	Cleanouts	3	EA	\$1,500	\$4,500
	4 ft diameter Manholes (8 ft to 15 ft depth)	9	EA	\$4,000	\$36,000
	<u>Drainage</u>				
	24" RCP	65	LF	\$55	\$3,575
	18" RCP	600	LF	\$50	\$30,000
	12" RCP	110	LF	\$45	\$4,950
	12" HDPE (Yard Drains)	635	LF	\$29	\$18,415
	15" HDPE (Yard Drains)	300	LF	\$38	\$11,400
	Nyloplast Area Drain	13	EA	\$750	\$9,750
	Manholes	5	EA	\$3,700	\$18,500
	5' Type R Inlet	5	EA	\$4,600	\$23,000
	10' Type R Inlet	2	EA	\$8,000	\$16,000
	Flared End Section	4	EA	\$3,000	\$12,000
	Outlet Structures (w/ trash racks and safety racks)	2	EA	\$4,000	\$8,000
	Retaining Walls	700	SF	\$50	\$35,000
	Subtotal (private improvements to be inspected) cost				\$360,290
	10% Contingency				\$36,029
	Grand Total (private improvements to be inspected)				\$396,319

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
	<u>PRIVATE IMPROVEMENTS NOT TO BE INSPECTED</u>				
	<u>Transportation</u>				
	Paving	9500	SY	\$22	\$209,000.00
	Subgrade Prep	85000	SF	\$2	\$170,000.00
	Curb Gutter	5000	LF	\$14	\$70,000.00
	Cross Pans	0	LF	\$25	\$0.00
	Sidewalks	18000	SF	\$8	\$144,000.00
	Handicap Ramps	15	EA	\$3,500	\$52,500.00
	Striping	3500	LF	\$5	\$17,500.00

	Signage	20	EA	\$250	\$5,000.00
	<u>Water</u>				
	6" Domestic Service Lines (from curb stop to building) (Inspected by the Building Division)	40	LF	\$10	\$400
	Subtotal (private improvements NOT to be inspected) cost				\$668,400
	10% Contingency				\$66,840
	Grand Total (private improvements NOT to be inspected)				\$735,240

	Grand Total	\$1,746,135
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1. Surety is calculated based on Public Improvement Costs.
2. Inspection Fees are calculated from Public Improvements and Private Improvements to be inspected.
3. Use Tax is calculated from the Grand Total of all Improvements minus Earthwork.
4. All Costs Shall Include Labor and Material.