

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"	1992	LF	\$35	\$69,720.00
	Water Mains 12"	1292	LF	\$45	\$58,140.00
	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	12	EA	\$800	\$9,600.00
	8" 22.5° Bend	6	EA	\$800	\$4,800.00
	8" 11.25° Bend	2	EA	\$800	\$1,600.00
	8" Valve	13	EA	\$1,000	\$13,000.00
	8" X 8" Tee	1	EA	\$900	\$900.00
	12" X 8" Tee	7	EA	\$900	\$6,300.00
	12" Valve	6	EA	\$1,100	\$6,600.00
	12" 45° Bend	4	EA	\$1000	\$4,000.00
	12" 22.5° Bend	6	EA	\$1000	\$6,000.00
	12" 11.25° Bend	15	EA	\$1000	\$15,000.00
	Fire Hydrant Assembly	8	EA	\$5,000	\$40,000.00
	3" Domestic Service Line (from the main to the curb stop)	77	LF	\$10	\$770.00
	3" Domestic Meter	1	EA	\$7000	\$7,000.00
	1" Irrigation Meter	1	EA	\$4,000	\$4,000.00
	3/4" Irrigation Meter	1	EA	\$4,000	\$4,000.00
	1" Irrigation Line	22	LF	\$15	\$330.00
	3/4" 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	\$1,500.00
	Saw Cut & Pavement Replacement	0	SF	\$30	\$0
	4 ft diameter Manholes (8 ft to 15 ft depth)	9	EA	\$4,000	\$36,000.00
	8" Wye connections for service lines	4	EA	\$750	\$3,000.00
	<u>Drainage</u>				
	18" RCP	771	LF	\$50	\$38,550.00
	24" RCP	566	LF	\$65	\$36,790.00
	Manholes	14	EA	\$3,700	\$51,800.00
	5' Type R Inlet	1	EA	\$4,600	\$4,600.00
	10' Type R Inlet	1	EA	\$8,000	\$8,000.00
	Type C Inlet	1	EA	\$5,000	\$5,000.00
	Flared End Section	1	EA	\$3,000	\$3,000.00
	Forebay	4	EA	\$10,000	\$40,000.00

	Subtotal (public improvements) cost	\$578,780
	10% Contingency	\$57,878
	Grand Total (public improvements to be inspected)	\$636,658
	Total Surety Amount (Grand Total x 1.15)	\$732,157

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
PRIVATE IMPROVEMENTS TO BE INSPECTED					
	Earthwork				
	Cut/Fill	57000	CY	\$1.90	\$108,300
	Sanitary Sewer				
	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
	Drainage				
	24" RCP	56	LF	\$55	\$3,080
	18" RCP	523	LF	\$50	\$26,150
	12" RCP	111	LF	\$45	\$4,995
	12" HDPE (Yard Drains)	637	LF	\$29	\$18,473
	15" HDPE (Yard Drains)	300	LF	\$38	\$11,400
	Nyloplast Area Drain	14	EA	\$750	\$10,500
	Manholes	5	EA	\$3,700	\$18,500
	5' Type R Inlet	1	EA	\$4,600	\$4,600
	10' Type R Inlet	3	EA	\$8,000	\$24,000
	Single Type 16 Inlet	4	EA	\$4,600	\$18,400
	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				\$364,798
	10% Contingency				\$36,480
	Grand Total (private improvements to be inspected)				\$401,278

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
PRIVATE IMPROVEMENTS NOT TO BE INSPECTED					
	Transportation				
	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
	Water				
	6" Domestic Fire Protection Service Lines (from curb stop to building) (Inspected by the Building Division)	78	LF	\$10	\$780
	Subtotal (private improvements NOT to be inspected) cost				\$668,780
	10% Contingency				\$66,878
	Grand Total (private improvements NOT to be inspected)				\$735,658

	Grand Total	\$1,773,594
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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.