

**Engineer's Opinion of Estimated Costs for Public/Private Improvements
Avilla Bella Mesa CD22-0035**

All Costs Include Labor and Materials.

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
<u>PUBLIC IMPROVEMENTS TO BE INSPECTED</u>					
	Earthwork				
	Mobilization				\$0.00
	Topsoil				\$0.00
	Import/Export in ROWs				\$0.00
	Transportation				
	Asphalt Paving	4343	SY	\$22	\$95,546
	Concrete Paving	1419	SY	\$32	\$45,408
	Subgrade Prep	5762	SY	\$3	\$14,405
	Curb Gutter	2039	LF	\$17	\$34,663
	Cross Pans (8')		SF	\$9	\$0
	Valley Pan (4')		SF	\$4	\$0
	Sidewalks	642	SY	\$29	\$18,618
	Handicap Ramps	6	EA	\$1,350	\$8,100
	Street Repair for utility cuts	29	SY	\$72	\$2,088
	Irrigation Conduits in Right-of-way				\$0
	Utility Conduits in Right-of-Way				\$0
	Trails (off street, public)				\$0
	Striping	1100	LF	\$8	\$8,800
	Striping (crosswalk, stop bar)	17.5	SY	\$45	\$788
	Signage	13	EA	\$400	\$5,200
	Dry Utility 2'x2' Pull Box	8	EA	\$120	\$960
	Dry Utility Sleeving (2-2" Electric)	106	LF	\$30	\$3,180
	Dry Utility Sleeving (4" Gas)	100	LF	\$30	\$3,000
	Water				\$0
	Water Main (8 inch PVC)	1178	LF	\$30	\$35,340
	Domestic Service Lines (1.5 inch Type K Copper) (to the meter)	384	LF	\$13	\$4,992
	Connections to Existing WL	2	EA	\$2,500	\$5,000
	Saw Cut & Pavement Replacement	0			\$0
	8" x 6" Swivel Tee	4	EA	\$800	\$3,200
	8" 11.25° Elbow w/ Thrust Block	5	EA	\$775	\$3,875
	8" 22.5° Elbow w/ Thrust Block	4	EA	\$775	\$3,100
	8" 45° Elbow w/ Thrust Block	3	EA	\$775	\$2,325
	8" 45° Vertical Elbow w/ Thrust Block	20	EA	\$775	\$15,500
	6" Gate Valve	4	EA	\$1,800	\$7,200
	8" Gate Valve	5	EA	\$2,000	\$10,000
	Marker Posts	0			\$0
	Temporary Blow-Offs	0			\$0
	ARV's	0			\$0
	Fire Hydrants 1 per 400 ft	4	EA	\$5,450	\$21,800

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
	Fire Hydrant Bollards	0			\$0
	1.5" Water Meters & Vaults	12	EA	\$12,000	\$144,000
	1.5" Irrigation Meters & Vaults	2	EA	\$12,000	\$24,000
	1.5" Type K Irrigation Lines (from main to meter)	49	LF	\$13	\$637
	Sanitary Sewer				\$0
	Sanitary Main (8 inch PVC)	1622	LF	\$95	\$154,090
	Connections to Existing San Sewer	1	EA	\$3,690	\$3,690
	Saw Cut & Pavement Replacement	47	SY	\$6	\$282
	Lift Stations	0			\$0
	Sanitary Force Mains (list types & sizes)	0			\$0
	Manholes (4 feet)	14	EA	\$3,822	\$53,508

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
	Locking Type Manhole Covers & Bolt-Down Rings				\$0
	Manhole Internal Watertight Inserts				\$0
	Drop Manholes (list dia. & range of depth)				\$0
	Marker Posts				\$0
	WYE connections for service lines (list sizes)				\$0
Drainage					
	Storm Sewer Pipes 18" RCP	95	LF	\$63	\$5,985
	Storm Sewer Pipes 30" RCP	121	LF	\$105	\$12,705
	Box Base 5' Manhole	1	EA	\$3,077	\$3,077
	6' Manhole	1	EA	\$3,000	\$3,000
	Type R L10 Inlet	2	EA	\$4,677	\$9,354
	Type C 5' Inlet	1	EA	\$2,120	\$2,120
	Trickle Channel				\$0
	Rip Rap				\$0
	Forebay				\$0
	Micropool				\$0
	Outlets Structure(s)				\$0
	Retaining Walls				\$0
					\$769,535.50
10% Contingency					\$76,953.55
Total Public Improvements					\$846,489.05
PRIVATE IMPROVEMENTS TO BE INSPECTED					
Earthwork					
	Import	38787	CY	\$10.00	\$387,870.00
Water					
	Backflow Prevention Assemblies (list sizes)				\$0
	Fire Line (6 inch DI)	95	LF	\$65	\$6,175
	Abandon/remove water service lines				\$0
	Irrigation backflow prevention assemblies (list sizes)				\$0
Sanitary Sewer					
	Abandon/remove sanitary sewer service lines				\$0
Drainage					
	Storm Sewer Pipe 18"	640	LF	\$63	\$40,320
	Storm Sewer Pipe 24"	700	LF	\$84	\$58,800
	Storm Sewer Pipe 30"	70	LF	\$105	\$7,350
	Slab Base 5' Manhole	11	EA	\$3,000	\$33,000
	Type R L5 Inlet	5	EA	\$4,077	\$20,385
	Type R L10 Inlet	2	EA	\$4,677	\$9,354
	Type C 5' Inlet	4	EA	\$2,120	\$8,480
	Type 16 Double Inlet	2	EA	\$4,260	\$8,520
	Clean Outs				\$0

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
	FES's				\$0
	Retaining Walls	37552	SF	\$45	\$1,689,840
					\$2,270,094
10% Contingency					\$227,009.4
Total Private Improvements To Be Inspected					\$2,497,103.4

Item #	Description	Quantity	Unit	Unit Cost	Total Cost
<u>PRIVATE IMPROVEMENTS NOT TO BE INSPECTED</u>					
	<u>Transportation</u>				
	Asphalt Paving	6875	SY	\$24	\$165,000
	Concrete Drive, Parking Areas	292	SY	\$35	\$10,220
	Curb/Gutter	4467	LF	\$11	\$49,137
	Concrete Cross Pans	9	SY	\$59	\$531
	Parking Areas				\$0
	Sidewalks	2661	SY	\$28	\$74,508
	Handicapped Ramps	2	EA	\$1,000	\$2,000
	<u>Water</u>				
	FDC & fire lines to FDC (list types & sizes) (Inspected by Fire, not Public Works)				\$0
	Domestic Service Lines (2 inch Type K Copper) (past meter)	4931	LF	\$13	\$64,103
	Irrigation Lines (past meter)	0			\$0
	<u>Sanitary Sewer</u>				\$0
	Service Lines (4 inch)	4228	LF	\$80	\$338,240
	Wye Connection (8 inch to 4 inch)	18	EA	\$250	\$4,500
	Clean-Outs (4 inch)	249	EA	\$350	\$87,150
					\$795,389
	10% Contingency				\$79,538.9
Total Private Improvements Not To Be Inspected					\$874,927.9
Grand Total					\$4,218,520.35

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.