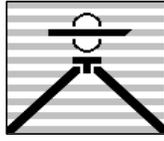


**CHAPEL HEIGHTS METRO DISTRICT  
ENGINEER'S  
OPINION OF PROBABLE COST**



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Engineers - Surveyors  
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**PROJECT NAME:**  
Chapel Heights Metro District

**DATE:** 6/6/2019

**PROJECT NUMBER:** 21286-01

**CALC. BY:** TDM

NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	COST
<b>PUBLIC WATER IMPROVEMENTS</b>					
1	MOBILIZATION	LS	1	\$20,000.00	\$ 20,000
2	12" PVC WATER LINE	LF	2,094	\$50.00	\$ 104,700
3	12" BENDS	EA	2	\$1,000.00	\$ 2,000
4	12" X 12" X 8" TEE	EA	1	\$1,500.00	\$ 1,500
5	12" X 12" X 6" TEE	EA	2	\$1,200.00	\$ 2,400
6	12" VALVE & BOX	EA	7	\$2,500.00	\$ 17,500
7	8" PVC WATER LINE	LF	9,781	\$32.00	\$ 312,992
8	8" BENDS	EA	33	\$500.00	\$ 16,500
9	8" X 8" X 8" TEE	EA	15	\$600.00	\$ 9,000
10	8" X 8" X 6" TEE	EA	13	\$600.00	\$ 7,800
11	8" VALVE & BOX	EA	52	\$1,750.00	\$ 91,000
12	6" PVC WATER LINE	EA	517	\$25.00	\$ 12,925
13	FIRE HYDRANT ASSEMBLY	EA	20	\$4,000.00	\$ 80,000
14	CONNECT TO EXISTING WATER	EA	2	\$15,000.00	\$ 30,000
	<b>PUBLIC WATER IMPROVEMENTS SUBTOTAL</b>				<b>\$ 708,317</b>
<b>PUBLIC STORM SEWER IMPROVEMENTS</b>					
1	MOBILIZATION	LS	1	\$20,000.00	\$ 20,000
2	18" RCP STORM SEWER	LF	232	\$45.00	\$ 10,440
3	24" RCP STORM SEWER	LF	1,656	\$70.00	\$ 115,920
4	30" RCP STORM SEWER	LF	624	\$95.00	\$ 59,280
5	36" RCP STORM SEWER	LF	1,042	\$120.00	\$ 125,040
6	48" RCP STORM SEWER	LF	95	\$190.00	\$ 18,050
7	TYPE 2 4' DIA. MANHOLE	EA	10	\$7,000.00	\$ 70,000
8	10' D-10-R CURB INLET	EA	17	\$8,000.00	\$ 136,000
9	NORTH WATER QUALITY & DETENTIONPOND	LS	1	\$75,000.00	\$ 75,000
10	SOUTH WATER QUALITY & DETENTIONPOND	LS	1	\$150,000.00	\$ 150,000
	<b>PUBLIC STORM SEWER IMPROVEMENTS SUBTOTAL</b>				<b>\$ 779,730</b>
<b>PUBLIC SANITARY SEWER IMPROVEMENTS</b>					
1	MOBILIZATION	LS	1	\$20,000.00	\$ 20,000
2	8" SDR 35 PVC SANITARY SEWER	LF	10,077	\$45.00	\$ 453,465
3	STD. 4' DIA. SANITARY MANHOLE	EA	45	\$3,500.00	\$ 157,500
4	CONNECT TO EXISTING SEWER	EA	1	\$5,000.00	\$ 5,000
5	PIPELINE PRESSURE TESTING	LF	10,077	\$0.50	\$ 5,039
6	MANHOLE VACUUM TESTING	EA	45	\$400.00	\$ 18,000
7	VIDEO INSPECTIONS	LF	10,077	\$1.50	\$ 15,116
8	VIDEO INSPECTION MOBILIZATION	LS	1	\$500.00	\$ 500
	<b>PUBLIC SANITARY SEWER IMPROVEMENTS SUBTOTAL</b>				<b>\$ 674,619</b>
<b>STREET IMPROVEMENTS</b>					
1	MOBILIZATION	LS	1	\$20,000.00	\$ 20,000
2	SUBGRADE PREP	SY	37,604	\$1.50	\$ 56,406

**CHAPEL HEIGHTS METRO DISTRICT  
ENGINEER'S  
OPINION OF PROBABLE COST**

NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	COST
3	6" ABC	SY	37,604	\$8.00	\$ 300,833
4	4" HBP	TON	7,624	\$90.00	\$ 686,175
5	5" HBP	TON	1,632	\$90.00	\$ 146,902
6	TYPE 1 & 5 CURB AND GUTTER	LF	23,750	\$25.00	\$ 593,750
7	5' CONC WALK	SF	118,750	\$4.00	\$ 475,000
8	PEDESTRIAN RAMP	EA	114	\$1,500.00	\$ 171,000
9	TYP. STREET SIGN	EA	63	\$350.00	\$ 22,050
10	8' CONC CROSS PAN	EA	12	\$4,000.00	\$ 48,000
11	STRIPING	LS	1	\$20,000.00	\$ 20,000
	<b>PUBLIC SURFACE IMPROVEMENTS SUBTOTAL</b>				<b>\$ 2,540,117</b>
<b>GRADING &amp; EROSION CONTROL</b>					
1	MOBILIZATION	LS	1	\$20,000.00	\$ 20,000
2	CLEAR AND GRUB	AC	42	\$2,500.00	\$ 105,000
3	EARTHWORK CUT & FILL	CY	150,000	\$2.50	\$ 375,000
4	VEHICLE TRACKING CONTROL	EA	3	\$2,500.00	\$ 7,500
5	SILT FENCE	LF	9,800	\$4.00	\$ 39,200
6	EROSION BALES	EA	200	\$25.00	\$ 5,000
7	INLET PROTECTION	EA	17	\$175.00	\$ 2,975
8	SEDIMENT BASIN	EA	4	\$2,000.00	\$ 8,000
9	RETAINING WALLS	SFF	60,000	\$30.00	\$ 1,800,000
10	CONCRETE WASHOUT BASIN	EA	2	\$1,000.00	\$ 2,000
11	SEED & MULCH	AC	42	\$1,200.00	\$ 50,400
	<b>EROSION CONTROL SUBTOTAL</b>				<b>\$ 2,415,075</b>
<b>RECREATION, LANDSCAPE &amp; IRRIGATION</b>					
1	LANDSCAPE & IRRIGATION	SF	220,000	\$3.25	\$ 715,000
2	PARKS/PLAYGROUND EQUIPMENT	LS	1	\$250,000.00	\$ 250,000
3	REMODEL OF CHAPEL FOR REC CENTER	LS	1	\$250,000.00	\$ 250,000
	<b>LANDSCAPE SUBTOTAL</b>				<b>\$ 1,215,000</b>
<b>TOTAL COST OF IMPROVEMENTS</b>					
	SUBTOTAL OF IMPROVEMENTS				\$ 8,332,858
	10% SURCHARGE/CONTINGENCY	LS		10%	\$ 833,286
	3% DESIGN & SURVEY	LS		3%	\$ 249,986
	3% MATERIAL TEST	LS		3%	\$ 249,986
	1.5% INSPECTION FEES	LS		1.5%	\$ 124,993
	<b>TOTAL IMPROVEMENTS ASSURANCE AMOUNT</b>				<b>\$ 9,791,108</b>

**Disclaimer:**

This Opinion of Probable Cost is based on construction unit pricing in the Colorado Springs, Colorado area and previous project experience as of 2019. This Opinion of Probable Cost does not provide any guarantees for actual construction costs. Actual construction costs will vary due to market conditions, individual contractors, material costs, bid conditions, and other factors that are not within the control of the Engineer.

Prepared for and on the Behalf of:

**Drexel, Barrell & Co.**



Tim D. McConnell, Colorado P.E. #33797