

ENGINEER'S ESTIMATE FOR THE GROVE MASS GRADING PLANS

Item No.	Description	Unit	Approx. Unit Quantity	Unit Price	Unit Total
1	Site Clearing	ACRES	53.55	\$1,500.00	\$80,325.00
2	Cut/Fill Rotation with Scraper	CY	166,903	\$4.00	\$667,612.00
3	Basin Outlet Control Structure (15' x 10')	EA	1	\$20,000.00	\$20,000.00
4	Junction Box (15' x 4')	EA	2	\$15,000.00	\$30,000.00
5	Junction Box (9' x 8')	EA	1	\$4,800.00	\$4,800.00
6	Junction Box (6' x 9')	EA	1	\$4,800.00	\$4,800.00
7	Junction Box (6' x 7')	EA	1	\$4,500.00	\$4,500.00
8	Junction Box (6' x 6')	EA	1	\$4,300.00	\$4,300.00
9	Junction Box (5.5' x 4')	EA	2	\$4,300.00	\$8,600.00
10	Area Inlet (5' x 5')	EA	1	\$4,200.00	\$4,200.00
11	Culvert Headwall (4' x 5')	EA	1	\$4,000.00	\$4,000.00
12	RCB Bend (4' x 5')	EA	1	\$2,500.00	\$2,500.00
13	42" Polypropylene Pipe	LF	1100	\$75.00	\$82,500.00
14	48" Polypropylene Pipe	LF	168	\$85.00	\$14,280.00
15	Concrete Box Culvert (4' x 5')	LF	138	\$1,400.00	\$193,200.00
16	48" HDPE Pipe	LF	313	\$75.00	\$23,475.00
17	36" HDPE Pipe	LF	212	\$65.00	\$13,780.00
18	42" Reinforced Concrete Flared End Section	EA	1	\$1,500.00	\$1,500.00
19	48" Reinforced Concrete Flared End Section	EA	2	\$1,500.00	\$3,000.00
20	Rip Rap Energy Dissipater	SY	216	\$50.00	\$10,800.00
21	RCB End Section (4' x 5')	EA	1	\$2,500.00	\$2,500.00
22	Shoofly	EA	1	\$10,000.00	\$10,000.00
23	Demolition of Existing Culvert beneath SE 16th St	LUMP	1.00	\$5,000.00	\$5,000.00
24	Landscaping Groundcover	SY	3,642.00	\$5.00	\$18,210.00
25	Flexamat Erosion Control Mat	SY	2,354.00	\$15.00	\$35,310.00
26	Erosion & Sediment Control	ACRES	53.55	\$1,500.00	\$80,325.00
27	Watermain Relocation (along SE 16th Street)	LF	185.00	\$80.00	\$14,800.00
28	Temporary Stabilization	ACRES	27.00	\$1,000.00	\$27,000.00
29	16th Street Repair	LS	1	\$10,000.00	\$10,000.00
30	Water Valves	EA	2	\$650.00	\$1,300.00
31	Water Encasement	EA	45	\$90.00	\$4,050.00
	Total Cost				\$1,386,667.00



GBA

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ENGINEER'S ESTIMATE FOR THE GROVE SE SUMMIT AND DECKER

Item No.	Description	Unit	Approx. Unit Quantity	Unit Price	Unit Total
1	Site Clearing	ACRES	5.75	\$1,500	\$8,625.00
2	Roadway Grading (Cut)	CY	3,667	\$4	\$14,668.00
3	Roadway Grading (Fill)	CY	7,934	\$0	\$0.00
4	9.5" Asphalt Paving (APWA Mixes)	TONS	6,113	\$68	\$415,684.00
5	6" Aggregate Base (MoDOT Type 5)	SY	15,064	\$10	\$150,640.00
6	9" Fly Ash-Treated Subgrade	SY	15,064	\$4	\$60,256.00
7	Concrete Commerical Drive Apron	SY	517	\$35	\$18,095.00
8	4" Concrete Sidewalks	SF	35,659	\$4	\$142,636.00
9	Curb & Gutter	LF	7,718	\$15	\$115,770.00
10	Permeable Pavers	SY	566	\$25	\$14,150.00
11	Stamped Concrete	SY	420	\$45	\$18,900.00
12	Pavement Marking (Directional Arrow)	EA	12	\$500	\$6,000.00
13	Pavement Marking (Straight Arrow)	EA	1	\$500	\$500.00
14	Pavement Marking ("ONLY")	EA	2	\$500	\$1,000.00
15	Pavement Marking (Stop Bar)	LF	136	\$6	\$816.00
16	Pavement Marking (12" Line)	LF	202	\$6	\$1,212.00
17	Pavement Marking (6" Line)	LF	313	\$6	\$1,878.00
18	Pavement Marking (4" Line)	LF	3,830	\$2	\$7,660.00
19	Pavement Marking (Double 4" Line)	LF	1,520	\$3	\$4,560.00
20	Pavement Marking (18" Chevron)	LF	428	\$2	\$856.00
21	Pavement Marking (Type 1 Crosswalk - 4" Lines)	LF	552	\$2	\$1,104.00
22	Pavement Marking (Type 2 Crosswalk - 24" Bars)	EA	28	\$2	\$56.00
23	Pavement Marking (3'x2' Yield Triangles)	EA	20	\$50	\$1,000.00
24	Signage (Traffic and Street)	EA	61	\$250	\$15,250.00
25	Storm Sewer Pipe (60" HDPE)	LF	45	\$150	\$6,750.00
26	Storm Sewer Pipe (60" RCP)	LF	53	\$250	\$13,250.00
27	Storm Sewer Pipe (54" HDPE)	LF	610	\$125	\$76,250.00
28	Storm Sewer Pipe (48" RCP)	LF	97	\$190	\$18,430.00
29	Storm Sewer Pipe (42" HDPE)	LF	308	\$115	\$35,420.00
30	Storm Sewer Pipe (42" RCP)	LF	41	\$165	\$6,765.00
31	Storm Sewer Pipe (36" RCP)	LF	47	\$130	\$6,110.00
32	Storm Sewer Pipe (30" HDPE)	LF	182	\$95	\$17,290.00
33	Storm Sewer Pipe (24" HDPE)	LF	246	\$120	\$29,520.00
34	Storm Sewer Pipe (24" RCP)	LF	95	\$85	\$8,075.00
35	Storm Sewer Pipe (18" RCP)	LF	47	\$105	\$4,935.00
36	Storm Sewer Pipe (15" RCP)	LF	202	\$75	\$15,150.00
37	Storm Sewer Structure (9'x9' Junction Box)	EA	1	\$8,500	\$8,500.00
38	Storm Sewer Structure (9'x8' Curb Inlet)	EA	1	\$8,500	\$8,500.00
39	Storm Sewer Structure (9'x5' Curb Inlet)	EA	1	\$8,000	\$8,000.00
40	Storm Sewer Structure (9'x4' Curb Inlet)	EA	1	\$7,500	\$7,500.00
41	Storm Sewer Structure (8'x4' Curb Inlet)	EA	1	\$6,250	\$6,250.00
42	Storm Sewer Structure (7'x7' Curb Inlet)	EA	1	\$7,500	\$7,500.00
43	Storm Sewer Structure (6'x8' Curb Inlet)	EA	1	\$7,500	\$7,500.00
44	Storm Sewer Structure (6'x7' Curb Inlet)	EA	1	\$5,000	\$5,000.00
45	Storm Sewer Structure (6'x5' Curb Inlet)	EA	1	\$4,500	\$4,500.00
46	Storm Sewer Structure (6'x4' Curb Inlet)	EA	10	\$4,500	\$45,000.00
47	Convert 5'x4' Curb Inlet to 5'x4' Junction Box	EA	1	\$1,500	\$1,500.00
48	Connect 30" Storm Pipe to 6'x3' RCB	EA	1	\$500	\$500.00
49	Storm Sewer End Section (60")	EA	1	\$2,200	\$2,200.00
50	Storm Sewer End Section (42")	EA	1	\$1,800	\$1,800.00
51	Underdrain (Perforated)	LF	1151	\$15	\$17,265.00
52	Underdrain (Non-Perforated)	LF	357	\$8	\$2,856.00
53	Landscaping Deciduous Trees	EA	7	\$300	\$2,100.00
54	Landscaping Shrubs	EA	13	\$50	\$650.00
55	Landscaping Annuals/Perennials	EA	585	\$25	\$14,625.00
56	Landscaping Evergreen Shrubs	EA	181	\$50	\$9,050.00
57	Landscaping Grasses	EA	270	\$25	\$6,750.00
58	Landscaping Groundcover	ACRES	4	\$5,000	\$18,800.00
59	Landscaping Mulch	CY	145	\$63	\$9,135.00
60	Street Lighting	EA	25	\$7,500	\$187,500.00
61	Traffic Control on SE Bailey Rd	LUMP	1	\$2,000	\$2,000.00
62	Erosion Control	ACRES	5.75	\$3,500	\$20,125.00

5/3/18

Total Cost

\$1,644,367.00

