

**Engineer's Estimate (17 18)**

Project: Gulf Trace Subdivision  
 Estimator: Ainsley and Allen  
 Date: December 20, 2017  
 Work Order NO. P04937.00  
 PVAS No. 3302  
 District No. 3

	Street Name	County Maint. Y/N	Road Rating	Width	Length	Sy. Paving	Drives	Mailboxes	Spandrels	T's	Manhole	W. Valve	Cul de Sac	Turnaround	Sidewalk Repair SY	Base Repair SY
1	Summerville Drive	Y	E	24	2262	6032.0						1		0		0
2	Westridge Drive	Y	E	24	988	2635.0						1	0	0		0
3	Amberley Court	Y	E	24	211	563.0						1	1	0		0
4	Ashley Court	Y	E	24	528	1408.0						1	2			
5	Berkdale Court	Y	E	24	86	230.0						1	1			
6	Brambleidge Court	Y	E	24	378	1008.0						1	1			
7	Burntwood Court	Y	E	24	264	704.0						1	1			
8	Chattsworth Court	Y	E	24	267	712.0						1	1			
9	Covington Drive	Y	E	24	1073	2862.0						1	2			
10	Cross Creek Court	Y	E	24	60	160.0						1	1			
11	Deergrass Court	Y	E	24	236	630.0						1	1			
12	Foxhall Drive	Y	E	24	759	2024.0						1				
13	Glenwood Circle	Y	E	24	941	2510.0						1	2			
14	Hearthstone Court	Y	E	24	794	2118.0						1	1			
15	Ivyhill Court	Y	E	24	196	523.0						1	1			
16	Nettle Creek Court	Y	E	24	264	704.0						1	1			
17	Paycay Court	Y	E	24	55	147.0						1	1			
18	Sandhill Drive	Y	E	24	559	1483.0						1	1			
19	Southfield Court	Y	E	24	205	547.0						1	1			
20	Windridge Drive	Y	E	24	1518	4048.0				1		1				
21	Woodmouse Court	Y	E	24	1141	3043.0				1		1				
22	Woodrose Court	Y	E	24	75	200.0						1	1			
23																
24	Total Project										64					
25																
26																
27	8 65 ft cul-de-sac															
28																
29																
30	Pascay Ct and Windridge Drive															
31	previously Chip Sealed															
32																
33	44 Inlets															
34	9															
35																
36																
37																
38																
39																
40																
41																
42																
43																
44																
45																
<b>TOTALS =</b>					12,657.0	34,291.0	0	0	0	2	64	23	20	0	0	0
<b>Combined Distance = 2.44 MILES</b>					Length	Sy. Paving	Drives	Mailboxes	Spandrels	T's	Manhole	W. Valve	Cul de Sac	Turnaround	Sidewalk Repair SY	Base Repair SY

<b>AREA IN SY.</b>	<b>34,291.0</b>
Spandrels @ 30 Sy. Ea.	0
"T" Turn Around @ 50 Sy. Ea.	2
Cul-de-Sac @ 520 Sy. Ea.	20
Drives @ 20SY Ea. (Turnouts)	0
<b>Total Sy. Ex. Pavement =</b>	<b>44,791.0 Sy.</b>

<b>Required Asphalt</b>	
<b>Type</b>	<b>Spread (lb/sy)      Tonnage</b>
Type S-I Asphalt Concrete Cement (ACC), Leveling	110      2464
Type S-III ACC, Leveling	0      0
Type S-II ACC, Surface or Intermediate Course	165      3695
Type S-I ACC, Deep Patch (4"+ 1" Incl. Shoulder Widening, Pavement Widening and Driveway Const.)	535      0 As Base Restoral
Type S-I ACC, Deep Patch (4"+ 1" Incl. Shoulder Widening, Pavement Widening and Driveway Const.)	10% Deep Patch for Driveways Repairs      0 As Base Restoral
Type FC-3 (without rubber)	0
Type PD-III ACC, Surface or Intermediate Course	0

<b>BASE REPAIR PERCENTAGE MULTIPLIER</b>	0.00%
<b>SIDEWALK PERCENTAGE MULTIPLIER</b>	0.00%
<b>SIDEWALK WIDTH</b>	0 FT
<b>SIDEWALK THICKNESS</b>	0 IN (4" OR 6")
<b>SHOULDER REWORK WIDTH</b>	0 FT
<b>SOD WIDTH</b>	0 FT

## Engineer's Estimate - Asphalt Contract

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### ASPHALT ITEMS

ITEM NO.	DESCRIPTION	QTY.	UNITS	UNIT PRICE	AMOUNT
102-91	Temporary Pavement Markings (Paint)	1,286	LF	\$0.25	\$321.43
102-10-2	Temporary Pavement Markings (Tape)		LF	\$5.00	
104-10-1	Baled Hay (Staked)		EA	\$7.50	
104-11	Turbidity Barrier (Floating)		LF	\$12.00	
104-13	Silt Fence (Staked)	4,000	LF	\$0.75	\$3,000.00
104-16	Rock Bags	140	EA	\$5.00	\$700.00
110-1-1A	Clearing and Grubbing < 6"	8	AC	\$2,000.00	\$16,000.00
110-1-1B	Clearing and Grubbing > 6"		AC	\$4,500.00	
110-4	Removal of Existing Pavement (Concrete)		SY	\$12.50	
110-47	Road Edge Preparation	1,000	LF	\$0.55	\$550.00
110-48	Sawcut Concrete Driveways	800	LF	\$3.50	\$2,800.00
110-49	Sawcut Asphaltic Concrete		LF	\$3.50	
110-50	"Pickup" Type Power Broom	70	HR	\$130.00	\$9,150.51
110-7	Manholes (Relocation) (Furnish and Install)	20	EA	\$390.00	\$7,800.00
120-1	Regular Excavation		CY	\$11.50	
120-2	Borrow Excavation		CY	\$11.75	
120-8	Embankment		CY	\$10.00	
121-70	Flowable Fill		CY	\$220.00	
160-4-1	Stabilization, Type "B" (6")(LBR40)		SY	\$2.75	
160-4-2	Stabilization, Type "B" (12")(LBR40)		SY	\$4.00	
162-2	Topsoil		SY	\$17.00	
270-1-A	Full Depth Reclamation (6" Depth)	45,231	SY	\$5.60	\$248,770.50
270-1-A1	Full Depth Reclamation (6" Depth)		SY	\$5.60	
270-1-B	Portland Cement	440	TN	\$188.00	\$83,500.00
270-1	Soil Cement Base (300 psi) (Plant-Mixed) (6")		SY	\$8.00	
270-1-1	Soil Cement Base (300 psi) (Plant-Mixed) (10")		SY	\$10.00	
210-2	Limerock, New Material for rework base		TN	\$17.50	
285-708-12	Base (Optional) Limerock (6")		SY	\$8.00	
285-707-11	Base (Optional) Limerock (8")		SY	\$10.50	
285-710-11	Base (Optional) Limerock (10")		SY	\$12.00	
285A	Crushed Concrete Base		SY	\$17.00	
285B	Blended Base		SY	\$18.00	
286-1	Turnout Construction (Concrete)		SY	\$65.00	
286-2	Turnout Construction (Asphalt)		TN	\$200.00	
310-1	Single Surface Treatment		SY	\$2.10	
310-2	Double Surface Treatment		SY	\$3.50	
310-3	Triple Surface Treatment		SY	\$4.90	
327-70-8	Milling of Existing Asphalt Pavement (2-1/2" Maximum Depth) (Various Widths)		SY	\$1.75	
327-70-8A	Milling of Existing Asphalt Pavement (2-1/2" Maximum Depth) (Various Widths)		SY	\$2.50	
327-70-8B	Haul and Stockpile Millings		CY-MI	\$0.90	
331-1	Asphalt Price Index Adjustment	88,851	GA	\$0.15	\$13,327.65
331-2-1	Type S-I Asphalt Concrete Cement (ACC), Leveling	2,464	TN	\$90.00	\$221,760.00
331-2-4	Type S-III ACC, Leveling		TN	\$95.00	
331-2-6	Type S-III ACC, Surface or Intermediate Course	3,696	TN	\$92.00	\$339,940.00
331-2-7	Type S-I ACC, Deep Patch		TN	\$105.00	
331-2-8	Type ABC-3		TN	\$110.00	
331-2-9	Type FC-3 (without rubber)		TN	\$95.00	
334-1	Type PD-III ACC, Surface or Intermediate Course		TN	\$95.00	
334-1-1	Cold In Place Recycling (3"-5")		TN	\$6.50	
334-1-3	Asphalt Emulsion Added	67,387	GA	\$2.25	\$150,620.63
339-1	Miscellaneous Asphalt Pavement		TN	\$185.00	
400-1-2	Endwall (Class II Concrete)		CY	\$750.00	
400-1-15	Class I Concrete (Miscellaneous)		CY	\$575.00	
415-1	Reinforcing Steel		LB	\$2.50	
425-10	Yard Drains		EA	\$1,000.00	
425-1-31	Inlet (Curb Type P-1)		EA	\$3,250.00	
425-1-32	Inlet (Curb Type P-2)		EA	\$3,250.00	
425-1-33	Inlet (Curb Type P-3)		EA	\$3,000.00	
425-1-34	Inlet (Curb Type P-4)		EA	\$3,000.00	
425-1-41	Inlet (Curb Type J-1)		EA	\$4,250.00	
425-1-42	Inlet (Curb Type J-2)		EA	\$4,000.00	
<b>Sub Total</b>					<b>\$1,078,804.65</b>

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425-1-43	Inlet (Curb Type J-3)		EA	\$3,900.00	
425-1-44	Inlet (Curb Type J-4)		EA	\$4,000.00	
425-1-47	Inlet (Curb Type 7)		EA	\$3,900.00	
425-1-48	Inlet (Curb Type 8)		EA	\$3,900.00	
425-1-52	Inlets (DT BOT Type C)		EA	\$2,500.00	
425-1-54	Inlets (DT BOT Type D)		EA	\$2,800.00	
425-1-55	Inlets (DT BOT Type E)		EA	\$3,000.00	
425-1-58	Inlets (DT BOT Type H)		EA	\$3,100.00	
425-1-71	Inlets (Gutter Type V)		EA	\$3,100.00	
425-5	Adjusting Manholes (reer rings)	64	EA	\$200.00	\$12,800.00
425-5A	Manhole Cover (replace)		EA	\$250.00	
425-8	Adjusting Valve Boxes	22	EA	\$150.00	\$3,300.00
430-11-423	15" Reinforced Concrete Pipe (Class IV)		LF	\$60.00	
430-11-425	18" Reinforced Concrete Pipe (Class IV)		LF	\$70.00	
430-11-428	24" Reinforced Concrete Pipe (Class IV)		LF	\$82.00	
430-11-433	30" Reinforced Concrete Pipe (Class IV)		LF	\$90.00	
430-11-438	36" Reinforced Concrete Pipe (Class IV)		LF	\$98.00	
430-11-440	42" Reinforced Concrete Pipe (Class IV)		LF	\$112.00	
430-11-441	48" Reinforced Concrete Pipe (Class IV)		LF	\$132.00	
430-11-442	54" Reinforced Concrete Pipe (Class IV)		LF	\$175.00	
430-11-443	60" Reinforced Concrete Pipe (Class IV)		LF	\$205.00	
430-141-01	12" X 18" Elliptical RCP (Class IV)		LF	\$68.00	
430-141-02	14" X 23" Elliptical RCP (Class IV)		LF	\$70.00	
430-141-03	18" X 30" Elliptical RCP (Class IV)		LF	\$85.00	
430-141-04	24" X 38" Elliptical RCP (Class IV)		LF	\$98.00	
430-141-05	29" X 45" Elliptical RCP (Class IV)		LF	\$115.00	
430-141-08	34" X 53" Elliptical RCP (Class IV)		LF	\$155.00	
430-141-09	38" X 60" Elliptical RCP (Class IV)		LF	\$180.00	
430-190-143A	Relay Existing Pipe (Concrete Round) (< 30")		LF	\$50.00	
430-190-143B	Relay Existing Pipe (Concrete Round) (30" - 60")		LF	\$95.00	
430-98-223	15" Mitered End Section		EA	\$700.00	
430-98-225	18" Mitered End Section		EA	\$750.00	
430-98-229	24" Mitered End Section		EA	\$900.00	
430-98-233	30" Mitered End Section		EA	\$1,950.00	
430-98-238	36" Mitered End Section		EA	\$2,100.00	
430-98-240	42" Mitered End Section		EA	\$3,500.00	
430-98-241	48" Mitered End Section		EA	\$3,700.00	
430-98-242	54" Mitered End Section		EA	\$5,000.00	
430-98-243	60" Mitered End Section		EA	\$5,500.00	
430-98-401	12" X 18" Mitered End Section		EA	\$750.00	
430-98-402	14" X 23" Mitered End Section		EA	\$900.00	
430-98-403	18" X 30" Mitered End Section		EA	\$1,300.00	
430-98-404	24" X 38" Mitered End Section		EA	\$1,850.00	
430-98-405	29" X 45" Mitered End Section		EA	\$3,600.00	
430-98-408	34" X 53" Mitered End Section		EA	\$4,500.00	
430-98-409	38" X 60" Mitered End Section		EA	\$5,000.00	
440-1-10	Underdrain (Type I)		LF	\$40.00	
440-1-20	Underdrain (Type II)		LF	\$60.00	
514-71	Plastic Filter Fabric		SY	\$4.25	
515-1-2	Handrail (Aluminum)		LF	\$130.00	
520-1-7	Concrete Curb and Gutter (Type E)		LF	\$30.00	
520-1-10	Concrete Curb and Gutter (Type F)	250	LF	\$32.00	\$8,000.00
520-3	Concrete Valley Gutter	285	LF	\$41.00	\$11,685.00
520-4	Special Concrete Gutter		LF	\$40.00	
522-1	Concrete Sidewalk, 4" Thick, 3' - 5' Wide	160	SY	\$50.00	\$8,000.00
522-2	Concrete Sidewalk, 6" Thick, Width Varies		SY	\$60.00	
530-1	Sand Cement Riprap (Roadway)		CY	\$400.00	
547-70-1	Riprap Fabric Formed Concrete (8" Filter Points)		SY	\$250.00	
550-2-22	Fencing, Type B (6' Height)		LF	\$40.00	
550-2-22A	Fencing, Type B (6' Height) (Vinyl Coated)		LF	\$55.00	
550-3-22	Fence Corner Post Assembly		EA	\$200.00	
570-2	Seed and Mulch (including Fertilizer)		SY	\$0.50	
575-1-1	Sodding (Bahia)		SY	\$2.50	
575-1-4	Sodding (Match Existing)	2,000	SY	\$3.25	\$6,500.00
577-70	Reworking Shoulders	2,000	SY	\$1.05	\$2,100.00
2501-1	Crack Sealing		LF	\$10.00	
2502-1	Microsurfacing (Single)		SY	\$2.25	
2502-2	Microsurfacing (Double)		SY	\$3.25	
2503	Asphalt Rejuvenation (Petroleum Based)		SY	\$1.10	
<b>PRICE SUBTOTAL</b>					<b>\$52,385.00</b>

	<b>\$1,131,189.65</b>
<b>20%</b>	
	<b>\$1,357,427.58</b>

**Engineer's Estimate - Public Works**

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Mobilization		LS X	\$	1,015.00		\$	-
Site Prep.		Sy. X	\$	1.69		\$	-
Clear & Grub	LT.	A X	\$	2,200.00	=	\$	-
	Med.	A X	\$	4,850.00	=	\$	-
	Hvy.	A X	\$	8,800.00	=	\$	-
Embankment & Fill		Cy. X	\$	7.20		\$	-
Earth Work ( Prep. For ABC )		Sy X	\$	1.47		\$	-
9" Stab. Subgrade		Sy X	\$	4.46		\$	-
12" Stab. Subgrade		Sy. X	\$	5.95		\$	-
6" Base ( Primed )		Sy. X	\$	6.59		\$	-
8" Base ( Primed )		Sy. X	\$	8.78		\$	-
4" Limerock ( Primed )		Sy. X	\$	9.12		\$	-
6" Limerock ( Primed )		Sy. X	\$	13.68		\$	-
8" Limerock ( Primed )		Sy. X	\$	16.15		\$	-
10" Limerock ( Primed )		Sy. X	\$	20.78		\$	-
12" Limerock ( Primed )		Sy. X	\$	26.28		\$	-
Lean Mix		10# / Sy.	\$	1.08		\$	-
		20# / Sy.	\$	1.21		\$	-
Sod		Sy. X	\$	1.53		\$	-
Sod ( Edge )		Lf. X	\$	0.26		\$	-
Seed & Mulch		Sy. X	\$	1.28		\$	-
Baled Hay		Ton X	\$	118.00		\$	-
Install Culverts		Lf. X	\$	80.00		\$	-
Clean Culverts		Lf. X				\$	-
Final Dress ( Shoulders )		Cy. X	\$	7.20		\$	-
Survey & Test		LS X	\$	1.69		\$	-
Traffic Control Devices	4	LS X	\$	750.00		\$	3,000.00
Guardrail		Lf. X				\$	-
Striping (incl Thermal)	180	Lf. X	\$	1.67		\$	300.60
Street Signs			\$	11.81		\$	-
Drainage						\$	-

PUBLIC WORKS SUB TOTAL = \$ 3,300.60

ADMINISTRATION 7.5% \$ 247.55

CONTINGENCY 20% \$ 660.12

PUBLIC WORKS TOTAL \$ 4,208.27

ASPHALT TOTAL \$ 1,357,427.58

ASPHALT AND PUBLIC WORKS TOTAL = \$ 1,361,635.85

Engineering, Inspection & Administration + 7.00% \$ 95,314.51

CONSTRUCTION TOTAL = \$ 1,456,950.36

Number of Lots = 27.00

RECORDING							
Resolution	1	First page	\$	10.00		\$	10.00
	1	Pages	\$	8.50		\$	8.50
Roll:	1	First page	\$	10.00		\$	10.00
	3	pages	\$	8.50		\$	25.50
		Subtotal				\$	54.00

LIEN SATISFACTION 27 Pages \$ 10.00 \$ 270.00

OVERHEAD 27 Lots X 10 Years \$ 10.00 / year \$ 2,700.00

Subtotal Lien/Overhead \$ 2,970.00

TOTAL = \$ 1,459,974.36

Tax Office 2% Fee \$29,199.49

PROJECT TOTAL \$ 1,489,173.84