

Engineer's Estimate (16 17)

Project: 8th Avenue (City Limits west to Hill Drive) Date: January 9, 2018
 Estimator: Ainsley PVAS No. 943
 Work Order NO. P01794.00 District No. 1

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 8th Avenue	Y	E	24	1375	3667.0	10	5	6	6			0	0		73.33
2 Hill Drive North	Y	E	20	1320	2934.0	10						0	0		58.67
3 Genevieve Circle	Y	E	24	1850	4934.0							0	0		98.67
4 Genevieve Circle (Dual)	Y	E	20	235	523.0	1						0	0		10.44
5															
6															
7 Clean culverts and reshape swales on 8th															
8 Hill Dr - 13 cc driveways															
9 Genevieve - Equivalent of one asphalt driveway in front of mailboxes															
10 38 cc driveways															
11															
12															
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45															
TOTALS =				4,780.0	12,058.0	21	5	6	6	0	0	0	0	0	241.11
Combined Distance = 0.91 MILES				Length	Sy. - Paving	Drives	Mailboxes	Spandrels	T's	Manhole	W. Valve	Cul de Sac	Turnaround	Sidewalk Repair SY	Base Repair SY

AREA IN SY.

12,058.0	
Spandrels @ 30 Sy. Ea.	6 180
T" Turn Around @ 50 Sy. Ea.	6 300
Cul-de-Sac @ 520 Sy. Ea.	0 0
Drives @ 20SY Ea. (Turnouts)	21 425
Total Sy. Ex. Pavement =	12,963.0 Sy.

Required Asphalt

Type	Spread (lb/sy)	Tonnage
Type S-I Asphalt Concrete Cement (ACC), Leveling	165	1069
Type S-III ACC, Leveling		0
Type S-III ACC, Surface or Intermediate Course	110	713
Type S-I ACC, Deep Patch (4"+ 1", Incl. Shoulder Widening, Pavement Widening and Driveway Const.).	525	63 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

BASE REPAIR PERCENTAGE MULTPLIER	2.00%
SIDEWALK PERCENTAGE MULTPLIER	0.00%
SIDEWALK WRDTH	0 FT
SIDEWALK THICKNESS	0 IN (4' OR 6')
SHOULDER REWORK WIDTH	0 FT
SOD WIDTH	0 FT

Engineer's Estimate - Asphalt Contract

Project: 8th Avenue (City Limits west to Hill Drive)
 Estimator: Ainsley

Date: January 9, 2018
 PVAS No. 943
 District No. 1

ASPHALT ITEMS

ITEM NO.	DESCRIPTION	QTY.	UNITS	UNIT PRICE	AMOUNT
102-91	Temporary Pavement Markings (Paint)	478	LF	\$0.19	\$90.82
102-10-2	Temporary Pavement Markings (Tape)		LF	\$5.50	
104-10-1	Baled Hay (Staked)		EA	\$4.00	
104-11	Turbidity Barrier (Floating)		LF	\$10.00	
104-13	Slit Fence (Staked)	2,500	LF	\$0.80	\$2,000.00
104-16	Rock Bags		EA	\$3.25	
110-1-1A	Clearing and Grubbing < 6"	5	AC	\$2,500.00	\$12,500.00
110-1-1B	Clearing and Grubbing > 6"		AC	\$7,000.00	
110-4	Removal of Existing Pavement (Concrete)		SY	\$18.00	
110-47	Road Edge Preparation	9,560	LF	\$0.50	\$4,780.00
110-48	Sawcut Concrete Driveways		LF	\$4.00	
110-49	Sawcut Asphaltic Concrete	500	LF	\$3.25	\$1,625.00
110-50	"Pickup" Type Power Broom	55	HR	\$110.00	\$6,042.71
110-7	Mailboxes (Relocation) (Furnish and Install)	5	EA	\$180.00	\$900.00
120-1	Regular Excavation		CY	\$16.00	
120-2	Borrow Excavation		CY	\$12.00	
120-6	Embankment		CY	\$20.00	
121-70	Flowable Fill		CY	\$300.00	
160-4-1	Stabilization, Type "B" (6")(LBR40)		SY	\$33.00	
160-4-2	Stabilization, Type "B" (12")(LBR40)		SY	\$50.00	
162-2	Topsoil		SY	\$5.00	
270-1-A	Full Depth Reclamation (8" Depth)		SY	\$5.00	
270-1-A1	Full Depth Reclamation (10" Depth)		SY	\$8.00	
270-1-B	Portland Cement		TN	\$129.00	
270-1	Soil Cement Base (300 psi) (Plant-Mixed) (8")		SY	\$52.00	
270-1-1	Soil Cement Base (300 psi) (Plant-Mixed) (10")		SY	\$66.00	
210-2	Limerock, New Material for rework base		TN	\$23.50	
285-705-12	Base (Optional) Limerock (8")		SY	\$14.00	
285-707-11	Base (Optional) Limerock (8")		SY	\$15.00	
285-710-11	Base (Optional) Limerock (10")		SY	\$22.00	
285A	Crushed Concrete Base		SY	\$24.00	
285B	Blended Base		SY	\$8.80	
286-1	Turnout Construction (Concrete)		SY	\$53.00	
286-2	Turnout Construction (Asphalt)		TN	\$98.00	
310-1	Single Surface Treatment		SY	\$6.40	
310-2	Double Surface Treatment		SY	\$7.00	
310-3	Triple Surface Treatment		SY	\$7.50	
327-70-8	Milling of Existing Asphalt Pavement (2-1/2" Maximum Depth) (Various Widths)	12,963	SY	\$1.70	\$22,037.10
327-70-8A	Milling of Existing Asphalt Pavement (2-1/2" Maximum Depth) (Various Widths)		SY	\$2.10	
327-70-8B	Haul and Stockpile Millings		CY-MI	\$0.64	
331-2-1	Type S-I Asphalt Concrete Cement (ACC), Leveling	1,069	TN	\$90.00	\$96,210.00
331-2-4	Type S-II ACC, Leveling		TN	\$94.00	
331-2-6	Type S-III ACC, Surface or Intermediate Course	713	TN	\$90.00	\$64,170.00
331-2-7	Type S-I ACC, Deep Patch	63	TN	\$108.00	\$6,804.00
331-2-8	Type ABC-3		TN	\$120.00	
331-2-9	Type FC-3 (without rubber)		TN	\$93.00	
334-1	Type PD-II ACC, Surface or Intermediate Course		TN	\$90.00	
334-1-1	Cold In Place Recycling (3"-5")		TN	\$16.00	
334-1-2	Asphalt Emulsion Added		GA	\$5.00	
339-1	Miscellaneous Asphalt Pavement		TN	\$150.00	
400-1-2	Endwall (Class II Concrete)		CY	\$500.00	
400-1-15	Class I Concrete (Miscellaneous)		CY	\$425.00	
415-1	Reinforcing Steel		LB	\$3.20	
425-10	Yard Drains		EA	\$1,500.00	
425-1-31	Inlet (Curb Type P-1)		EA	\$2,700.00	
425-1-32	Inlet (Curb Type P-2)		EA	\$2,700.00	
425-1-33	Inlet (Curb Type P-3)		EA	\$2,350.00	
425-1-34	Inlet (Curb Type P-4)		EA	\$2,440.00	
425-1-41	Inlet (Curb Type J-1)		EA	\$3,440.00	
425-1-42	Inlet (Curb Type J-2)		EA	\$3,200.00	
Sub Total					\$221,066.69

Engineer's Estimate - Asphalt Contract

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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	\$3,000.00	
425-1-47	Inlet (Curb Type 7)		EA	\$2,800.00	
425-1-48	Inlet (Curb Type 8)		EA	\$2,800.00	
425-1-52	Inlets (DT BOT Type C)		EA	\$1,650.00	
425-1-54	Inlets (DT BOT Type D)		EA	\$2,100.00	
425-1-55	Inlets (DT BOT Type E)		EA	\$2,250.00	
425-1-58	Inlets (DT BOT Type H)		EA	\$2,400.00	
425-1-71	Inlets (Gutter Type V)		EA	\$2,400.00	
425-5	Adjusting Manholes (riser rings)		EA	\$270.00	
425-5A	Manhole Cover (replace)		EA	\$450.00	
425-6	Adjusting Valve Boxes		EA	\$190.00	
430-11-423	15" Reinforced Concrete Pipe (Class IV)		LF	\$40.00	
430-11-425	18" Reinforced Concrete Pipe (Class IV)		LF	\$45.00	
430-11-429	24" Reinforced Concrete Pipe (Class IV)		LF	\$55.00	
430-11-433	30" Reinforced Concrete Pipe (Class IV)		LF	\$65.00	
430-11-438	36" Reinforced Concrete Pipe (Class IV)		LF	\$75.00	
430-11-440	42" Reinforced Concrete Pipe (Class IV)		LF	\$100.00	
430-11-441	48" Reinforced Concrete Pipe (Class IV)		LF	\$120.00	
430-11-442	54" Reinforced Concrete Pipe (Class IV)		LF	\$140.00	
430-11-443	60" Reinforced Concrete Pipe (Class IV)		LF	\$170.00	
430-141-01	12" X 18" Elliptical RCP (Class IV)		LF	\$50.00	
430-141-02	14" X 23" Elliptical RCP (Class IV)		LF	\$50.00	
430-141-03	18" X 30" Elliptical RCP (Class IV)		LF	\$60.00	
430-141-04	24" X 38" Elliptical RCP (Class IV)		LF	\$75.00	
430-141-05	28" X 45" Elliptical RCP (Class IV)		LF	\$100.00	
430-141-08	34" X 53" Elliptical RCP (Class IV)		LF	\$120.00	
430-141-09	38" X 60" Elliptical RCP (Class IV)		LF	\$140.00	
430-190-143A	Relay Existing Pipe (Concrete Round) (< 30")		LF	\$55.00	
430-190-143B	Relay Existing Pipe (Concrete Round) (30" - 60")		LF	\$160.00	
430-98-223	15" Mitered End Section		EA	\$525.00	
430-98-225	18" Mitered End Section		EA	\$560.00	
430-98-229	24" Mitered End Section		EA	\$700.00	
430-98-233	30" Mitered End Section		EA	\$1,450.00	
430-98-238	36" Mitered End Section		EA	\$1,800.00	
430-98-240	42" Mitered End Section		EA	\$2,900.00	
430-98-241	48" Mitered End Section		EA	\$2,925.00	
430-98-242	54" Mitered End Section		EA	\$4,300.00	
430-98-243	60" Mitered End Section		EA	\$4,850.00	
430-98-401	12" X 18" Mitered End Section		EA	\$600.00	
430-98-402	14" X 23" Mitered End Section		EA	\$775.00	
430-98-403	18" X 30" Mitered End Section		EA	\$1,050.00	
430-98-404	24" X 38" Mitered End Section		EA	\$1,500.00	
430-98-405	28" X 45" Mitered End Section		EA	\$3,000.00	
430-98-408	34" X 53" Mitered End Section		EA	\$3,600.00	
430-98-409	38" X 60" Mitered End Section		EA	\$4,000.00	
440-1-10	Underdrain (Type I)		LF	\$28.00	
440-1-20	Underdrain (Type II)		LF	\$55.00	
514-71	Plastic Filter Fabric		SY	\$5.50	
515-1-2	Handrail (Aluminum)		LF	\$85.00	
520-1-7	Concrete Curb and Gutter (Type E)		LF	\$22.00	
520-1-10	Concrete Curb and Gutter (Type F)		LF	\$22.00	
520-3	Concrete Valley Gutter		LF	\$32.00	
520-4	Special Concrete Gutter		LF	\$32.00	
522-1	Concrete Sidewalk, 4" Thick, 3' - 6' Wide	400	SY	\$40.00	\$16,000.00
522-2	Concrete Sidewalk, 8" Thick, Width Varies		SY	\$42.00	
530-1	Sand Cement Riprap (Roadway)		CY	\$290.00	
547-70-1	Riprap Fabric Formed Concrete (8" Filter Points)		SY	\$215.00	
550-2-22	Fencing, Type B (8' Height)		LF	\$27.00	
550-2-22A	Fencing, Type B (8' Height) (Vinyl Coated)		LF	\$32.00	
550-3-22	Fence Corner Post Assembly		EA	\$125.00	
570-2	Seed and Mulch (Including Fertilizer)		SY	\$0.45	
575-1-1	Sodding (Bahia)		SY	\$2.10	
575-1-4	Sodding (Match Existing)	5,311	SY	\$3.20	\$16,995.56
577-70	Reworking Shoulders	5,311	SY	\$0.65	\$3,452.22
2501-1	Crack Sealing		LF	\$3.20	
2502-1	Microsurfacing (Single)		SY	\$7.50	
2502-2	Microsurfacing (Double)		SY	\$9.50	
2503	Asphalt Rejuvenation (Petroleum Based)		SY	\$26.00	
PRICE SUBTOTAL					\$36,447.78

Asphalt Contract SubTotal	\$257,514.47
Contingency	20%
Asphalt Contract Total	\$309,017.36

Engineer's Estimate - Public Works

Project: 8th Avenue (City Limits West to Hill Drive)
Estimator: Ainsley

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Mobilization		LS X	\$	1,015.00		\$	-
Site Prep.		Sy. X	\$	1.69		\$	-
Clear & Grab	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	2	LS X	\$	750.00		\$	1,500.00
Guardrail		Lf. X				\$	-
Striping (incl Thermal)	190	Lf. X	\$	1.67		\$	317.30
Street Signs			\$	11.81		\$	-
Drainage						\$	-

PUBLIC WORKS SUB TOTAL = \$ 1,817.30

ADMINISTRATION 7.5% \$ 136.30
CONTINGENCY 20% \$ 363.46

PUBLIC WORKS TOTAL \$ 2,317.06

ASPHALT TOTAL \$ 309,017.36

ASPHALT AND PUBLIC WORKS TOTAL \$ 311,334.42

Engineering, Inspection & Administration + 7.00% \$ 21,793.41

CONSTRUCTION TOTAL \$ 333,127.82

Number of Lots = 153.00

RECORDING							
Resolution	1	First page	\$	10.00		\$	10.00
	1	Pages	\$	8.50		\$	8.50
Roll:	1	First page	\$	10.00		\$	10.00
	17	pages	\$	8.50		\$	144.50
		Subtotal				\$	173.00

LIEN SATISFACTION 153 Pages \$ 10.00 \$ 1,530.00

OVERHEAD 153 Lots X 10 Years \$ 10.00 /year \$ 15,300.00

Subtotal Lien/Overhead \$ 16,830.00
TOTAL = \$ 350,130.82

Tax Office Fee Added \$ 7,002.62
Project Cost \$ 357,133