



**CVL Consultants of Colorado, Inc.**  
 10333 E. Dry Creek Rd  
 Suite 240  
 Englewood, Colorado 80112  
 720.482.9526 Fax 720.482.9546

**PROJECT: TRAILS AT CROWFOOT**  
**CLIENT: E5X**  
**FILING 11 COST ESTIMATE**

**JOB NUMBER: 8.13.0283701**  
**DATE: 4/14/2017**  
**PREPARED BY: BPW**

**SUMMARY - ONSITE**

Item	Description	Total Cost
	DEMOLITION	\$0
	EARTHWORK	\$22,874
	WET UTILITIES	\$651,526
	WATER	\$287,756
	SANITARY SEWER	\$150,745
	STORM SEWER	\$213,025
	STORMWATER (PONDS, CHANNELS)	\$0
	ROADWAYS	\$713,161
	DRY UTILITIES	\$0
	EROSION CONTROL	\$0
	LANDSCAPING/MONUMENTATION	\$0
	SITE AMENITIES (PARKS/REC CENTERS/ETC)	\$0
	CONTIGENCY (10%)	\$138,756
<b>TOTAL ONSITE</b>		<b>\$1,526,317</b>

**SUMMARY - OFFSITE**

Item	Description	Total Cost
	PERMANENT OFF-SITE POWER-FEEDER	\$0
	PERMANENT OFF-SITE GAS-FEEDER	\$0
	CONTIGENCY (10%)	\$0
<b>TOTAL OFFSITE</b>		<b>\$0</b>

**SUBMITTAL/PERMIT FEES**

Item	Description	Total Cost
	PLANNING APP. FEES - PRELIMINARY PLANS(PRELIM DRAINAGE REPORT)	\$0
	ENGINEERING FEES - FINAL PLANS	\$0
	WATER/SEWER/STORM (DEVELOPMENT FEES)	\$0
	GENERAL MAINTENANCE - EROSION CONTROL (ON-GOING)	\$0
	GENERAL MAINTENANCE - OTHER	\$0
	CONTIGENCY (10%)	\$0
<b>TOTAL SUBMITTAL/PERMIT FEES</b>		<b>\$0</b>

**PROFESSIONAL FEES**

Item	Description	Total Cost
	ARCHITECT/ENGINEERING DESIGN FEES (5%)	\$0
	GEOTECHNICAL TESTING/OBSERVATION FEES (2%)	\$0
	CONSTRUCTION MANAGEMENT FEES (3%)	\$0
	CONTIGENCY (10%)	\$0
<b>TOTAL PROFESSIONAL FEES</b>		<b>\$0</b>

**TOTAL DEVELOPMENT COSTS**

**\$1,526,317**

**NOTES:**

1. All costs are furnished and in-place costs.
2. Reference Town of Parker and Parker Water and Sanitary standards unless noted otherwise.
3. Final subgrade treatments/roadway pavement design to be provided by geotechnical engineer.
4. No power or gas feeder costs have been included in this estimate.
5. No professional or submittal fees have been included in this estimate.
6. No erosion control maintenance has been included in this estimate.
7. Costs do not include JDA streets or utilities



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**STREET SUMMARY**

**DEMOLITION**

Item	Description	Quantity	Unit
	REMOVE EXISTING ASPHALT(8" THICK)	0	S.Y.
	REMOVE EXISTING CONCRETE(6" THICK)	0	S.Y.
	REMOVE EXISTING PIPE	0	L.F.
	REMOVE EXISTING LIGHT	0	EA.
	REMOVE EXISTING MANHOLE/INLET	0	EA.

**STREET SUMMARY**

**EARTHWORK**

Item	Description	Quantity	Unit
	SUBGRADE PREPARATION(clearing & grubbing, 3" topsoil removal/stockpile)	11,437	S.Y.
	SUBGRADE PREPARATION TAPER(clearing & grubbing, 3" topsoil removal/stockpile)	0	S.Y.
	STREET GRADING (3'xWxL)	0	C.Y.
	STREET OVEREXCAVATION (3' deep & moisture treatment per geotech report)	0	C.Y.

**STREET SUMMARY**

**WATER**

Item	Description	Quantity	Unit
	24" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.
	16" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.
	12" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.
	8" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	3,027	L.F.
	6" WATERPIPE (DIP-FIRE HYDRANT LINE)	84	L.F.
	24" BUTTERFLY VALVE W/ VAULT (1 at 1000 ft spacing)	0	EA.
	16" BUTTERFLY VALVE W/ VAULT (1 at 1000 ft spacing)	0	EA.
	12" GATE VALVE W/ BOX (1 at 400 ft spacing)	0	EA.
	8" GATE VALVE W/ BOX (1 at 400 ft spacing)	13	EA.
	6" GATE VALVE W/ BOX	5	EA.
	FIRE HYDRANT ASSEMBLY (1 at 400 ft spacing)	5	EA.
	AIR/VAC VALVE W/ VAULT	0	EA.
	8" BLOWOFF (2" END OF PIPE)	3	EA.
	12" BLOWOFF (2" END OF PIPE)	0	EA.
	16" BLOWOFF (2" END OF PIPE)	0	EA.
	24" BLOWOFF (2" END OF PIPE)	0	EA.
	8" BEND	17	EA.
	12" BEND	0	EA.
	8" CROSS	1	EA.
	12" CROSS	0	EA.
	8" TEE	8	EA.
	12" TEE	0	EA.
	16" STEEL CASING PIPE	0	L.F.
	20" STEEL CASING PIPE	0	L.F.
	22" STEEL CASING PIPE	0	L.F.
	WATER MAIN CONNECTION	0	EA.
	WATER SERVICE LATERAL W/ WATER METER AND PIT	56	EA.



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**STREET SUMMARY**

**SANITARY SEWER**

Item	Description	Quantity	Unit
	24" SEWER (SDR-35 PVC)	0	31
	18" SEWER (SDR-35 PVC)	0	31
	15" SEWER (SDR-35 PVC)	0	31
	12" SEWER (SDR-35 PVC)	0	31
	8" SEWER (SDR-35 PVC)	2,507	31
	4' DIA. MANHOLE (1 at 400 ft spacing)	21	31
	5' DIA. MANHOLE (1 at 400 ft spacing)	0	31
	INTERMEDIATE PLATFORM	0	31
	SEWER MAIN CONNECTION	0	31
	SEWER SERVICE LATERAL W/ WYE TAP	56	31

**STREET SUMMARY**

**STORM SEWER**

Item	Description	Quantity	Unit
	15" STORM SEWER (Class III RCP)	0	L.F.
	18" STORM SEWER (Class III RCP)	7	L.F.
	24" STORM SEWER (Class III RCP)	18	L.F.
	30" STORM SEWER (Class III RCP)	0	L.F.
	36" STORM SEWER (Class III RCP)	1,124	L.F.
	42" STORM SEWER (Class III RCP)	91	L.F.
	48" STORM SEWER (Class III RCP)	0	L.F.
	54" STORM SEWER (Class III RCP)	0	L.F.
	60" STORM SEWER (Class III RCP)	0	L.F.
	6'x4' BOX CULVERT (Class III RCBC)	0	L.F.
	10'x6' BOX CULVERT (Class III RCBC)	0	L.F.
	HEADWALL (PER CDOT STANDARD) (includes handrails) WITH WINGWALLS	0	EA.
	4' DIA. MANHOLE	0	EA.
	5' DIA. MANHOLE	7	EA.
	TYPE R INLET (5')	0	EA.
	TYPE R INLET (10')	1	EA.
	TYPE R INLET (15')	4	EA.
	TYPE 16 INLET (SINGLE)	0	EA.
	TYPE 16 INLET (DOUBLE)	0	EA.
	TYPE 16 INLET (TRIPLE)	0	EA.
	TYPE 13 AREA INLET	0	EA.
	TYPE C AREA INLET	1	EA.



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**STREET SUMMARY**

**ROADWAYS**

Item	Description	Quantity	Unit
	FULL DEPTH ASPHALT PAVEMENT (9" THICK)	9,462	S.Y.
	TEMPORARY ASPHALT TRANSITION (9" THICK)	0	S.Y.
	CONCRETE PAVEMENT (6" THICK)	0	S.Y.
	6" CONCRETE CURB & GUTTER WITH 2' PAN	5,924	L.F.
	6" CONCRETE CURB & GUTTER WITH 1' PAN	0	L.F.
	6"X10' CONCRETE SIDEWALK W/ FIBER MESH	5,924	L.F.
	CONCRETE CROSSPAN (6" THICK)	0	EA.
	HANDICAP RAMPS	13	EA.
	STRIPING 1/2 width (2 solid edge lines and 2 dashed lane lines - typ)	0	L.F.
	STRIPING taper (centerline - typ)	0	L.F.
	SIGNAGE (1 Sign every 300 feet)	14	EA.

**STREET SUMMARY**

**DRY UTILITIES**

Item	Description	Quantity	Unit
	ON-SITE STREET GAS LINES	5,924	L.F.
	ON-SITE STREET ELECTRIC LINES	5,924	L.F.
	LOT GAS SERVICE	56	EA.
	LOT ELECTRIC SERVICE	54	EA.
	STREET LIGHTS (ONE SIDE AT 180' SPACING)	5	EA.

**STREET SUMMARY**

**LANDSCAPING/MONUMENTION**

Item	Description	Quantity	Unit
	STREETSCAPE LANDSCAPING (MEDIANS/SIDEWALK STRIP)	0	L.F.
	FENCING	0	L.F.
	IRRIGATION AND SLEEVING	0	L.F.
	MONUMENTATION	0	LS



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Length (ft) Taper (ft) Total Lots  
 1313 0 15

**BEEBALM AVENUE DEMOLITION**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	REMOVE EXISTING ASPHALT(8" THICK)	0	S.Y.	\$8.00	\$0.00
	REMOVE EXISTING CONCRETE(6" THICK)	0	S.Y.	\$6.00	\$0.00
	REMOVE EXISTING PIPE	0	L.F.	\$5.00	\$0.00
	REMOVE EXISTING LIGHT	0	EA.	\$200.00	\$0.00
	REMOVE EXISTING MANHOLE/INLET	0	EA.	\$500.00	\$0.00
Total Cost					<b>\$0.00</b>

**BEEBALM AVENUE EARTHWORK**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	SUBGRADE PREPARATION(clearing & grubbing, 3" topsoil removal/stockpile)	5,252	S.Y.	\$2.00	\$10,504.00
	SUBGRADE PREPARATION TAPER(clearing & grubbing, 3" topsoil removal/stockpile)	0	S.Y.	\$2.00	\$0.00
	STREET GRADING (3xWxL)	0	C.Y.	\$3.00	\$0.00
	STREET OVEREXCAVATION (5' deep & moisture treatment per geotech report)	0	C.Y.	\$6.00	\$0.00
Total Cost					<b>\$10,504.00</b>

**BEEBALM AVENUE WATER**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	24" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$110.00	\$0.00
	16" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$80.00	\$0.00
	12" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$43.00	\$0.00
	8" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	1,372	L.F.	\$38.00	\$52,136.00
	6" WATERPIPE (DIP-FIRE HYDRANT LINE)	24	L.F.	\$20.00	\$480.00
	24" BUTTERFLY VALVE W/ VAULT (1 at 1000 ft spacing)	0	EA.	\$18,500.00	\$0.00
	16" BUTTERFLY VALVE W/ VAULT (1 at 1000 ft spacing)	0	EA.	\$16,000.00	\$0.00
	12" GATE VALVE W/ BOX (1 at 400 ft spacing)	0	EA.	\$3,000.00	\$0.00
	8" GATE VALVE W/ BOX (1 at 400 ft spacing)	8	EA.	\$2,000.00	\$16,000.00
	6" GATE VALVE W/ BOX	1	EA.	\$1,000.00	\$1,000.00
	FIRE HYDRANT ASSEMBLY (1 at 400 ft spacing)	1	EA.	\$4,400.00	\$4,400.00
	AIR/VAC VALVE W/ VAULT	0	EA.	\$6,500.00	\$0.00
	8" BLOWOFF (2" END OF PIPE)	3	EA.	\$1,500.00	\$4,500.00
	12" BLOWOFF (2" END OF PIPE)	0	EA.	\$2,500.00	\$0.00
	16" BLOWOFF (2" END OF PIPE)	0	EA.	\$3,700.00	\$0.00
	24" BLOWOFF (2" END OF PIPE)	0	EA.	\$4,700.00	\$0.00
	8" BEND	5	EA.	\$650.00	\$3,250.00
	12" BEND	0	EA.	\$1,200.00	\$0.00
	8" CROSS	1	EA.	\$1,300.00	\$1,300.00
	12" CROSS	0	EA.	\$1,300.00	\$0.00
	8" TEE	3	EA.	\$750.00	\$2,250.00
	12" TEE	0	EA.	\$1,050.00	\$0.00
	16" STEEL CASING PIPE	0	L.F.	\$120.00	\$0.00
	20" STEEL CASING PIPE	0	L.F.	\$150.00	\$0.00
	22" STEEL CASING PIPE	0	L.F.	\$165.00	\$0.00
	WATER MAIN CONNECTION	0	EA.	\$2,500.00	\$0.00
	WATER SERVICE LATERAL W/ WATER METER AND PIT	15	EA.	\$1,700.00	\$25,500.00
Total Cost					<b>\$110,816.00</b>

**BEEBALM AVENUE SANITARY SEWER**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	24" SEWER (SDR-35 PVC)	0	31	\$72.00	\$0.00
	18" SEWER (SDR-35 PVC)	0	31	\$67.00	\$0.00
	15" SEWER (SDR-35 PVC)	0	31	\$65.00	\$0.00
	12" SEWER (SDR-35 PVC)	0	31	\$60.00	\$0.00
	8" SEWER (SDR-35 PVC)	1,091	31	\$35.00	\$38,185.00
	4' DIA. MANHOLE (1 at 400 ft spacing)	8	31	\$3,000.00	\$24,000.00
	5' DIA. MANHOLE (1 at 400 ft spacing)	0	31	\$4,200.00	\$0.00
	INTERMEDIATE PLATFORM	0	31	\$500.00	\$0.00
	SEWER MAIN CONNECTION	0	31	\$2,000.00	\$0.00
Total Cost					<b>\$62,185.00</b>





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 FILING 11 COST ESTIMATE

JOB NUMBER: 8.13.0283701  
 DATE: 4/14/2017  
 PREPARED BY: BPW

Length (ft) Taper (ft) Total Lots  
 670 0 15

**ALPINE PHLOX LANE DEMOLITION**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	REMOVE EXISTING ASPHALT(8" THICK)	0	S.Y.	\$8.00	\$0.00
	REMOVE EXISTING CONCRETE(6" THICK)	0	S.Y.	\$6.00	\$0.00
	REMOVE EXISTING PIPE	0	L.F.	\$5.00	\$0.00
	REMOVE EXISTING LIGHT	0	EA.	\$200.00	\$0.00
	REMOVE EXISTING MANHOLE/INLET	0	EA.	\$500.00	\$0.00
Total Cost					<b>\$0.00</b>

**ALPINE PHLOX LANE EARTHWORK**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	SUBGRADE PREPARATION(clearing & grubbing, 3" topsoil removal/stockpile)	2,680	S.Y.	\$2.00	\$5,360.00
	SUBGRADE PREPARATION TAPER(clearing & grubbing, 3" topsoil removal/stockpile)	0	S.Y.	\$2.00	\$0.00
	STREET GRADING (3xWxL)	0	C.Y.	\$3.00	\$0.00
	STREET OVEREXCAVATION (5' deep & moisture treatment per geotech report)	0	C.Y.	\$6.00	\$0.00
Total Cost					<b>\$5,360.00</b>

**ALPINE PHLOX LANE WATER**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	24" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$110.00	\$0.00
	16" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$80.00	\$0.00
	12" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$43.00	\$0.00
	8" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	647	L.F.	\$38.00	\$24,586.00
	6" WATERPIPE (DIP-FIRE HYDRANT LINE)	11	L.F.	\$20.00	\$220.00
	24" BUTTERFLY VALVE W/ VAULT (1 at 1000 ft spacing)	0	EA.	\$18,500.00	\$0.00
	16" BUTTERFLY VALVE W/ VAULT (1 at 1000 ft spacing)	0	EA.	\$16,000.00	\$0.00
	12" GATE VALVE W/ BOX (1 at 400 ft spacing)	0	EA.	\$3,000.00	\$0.00
	8" GATE VALVE W/ BOX (1 at 400 ft spacing)	3	EA.	\$2,000.00	\$6,000.00
	6" GATE VALVE W/ BOX	1	EA.	\$1,000.00	\$1,000.00
	FIRE HYDRANT ASSEMBLY (1 at 400 ft spacing)	1	EA.	\$4,400.00	\$4,400.00
	AIR/VAC VALVE W/ VAULT	0	EA.	\$6,500.00	\$0.00
	8" BLOWOFF (2" END OF PIPE)	0	EA.	\$1,500.00	\$0.00
	12" BLOWOFF (2" END OF PIPE)	0	EA.	\$2,500.00	\$0.00
	16" BLOWOFF (2" END OF PIPE)	0	EA.	\$3,700.00	\$0.00
	24" BLOWOFF (2" END OF PIPE)	0	EA.	\$4,700.00	\$0.00
	8" BEND	3	EA.	\$650.00	\$1,950.00
	12" BEND	0	EA.	\$1,200.00	\$0.00
	8" CROSS	0	EA.	\$1,300.00	\$0.00
	12" CROSS	0	EA.	\$1,300.00	\$0.00
	8" TEE	2	EA.	\$750.00	\$1,500.00
	12" TEE	0	EA.	\$1,050.00	\$0.00
	16" STEEL CASING PIPE	0	L.F.	\$120.00	\$0.00
	20" STEEL CASING PIPE	0	L.F.	\$150.00	\$0.00
	22" STEEL CASING PIPE	0	L.F.	\$165.00	\$0.00
	WATER MAIN CONNECTION	0	EA.	\$2,500.00	\$0.00
	WATER SERVICE LATERAL W/ WATER METER AND PIT	15	EA.	\$1,700.00	\$25,500.00
Total Cost					<b>\$65,156.00</b>

**ALPINE PHLOX LANE SANITARY SEWER**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	24" SEWER (SDR-35 PVC)	0	31	\$72.00	\$0.00
	18" SEWER (SDR-35 PVC)	0	31	\$67.00	\$0.00
	15" SEWER (SDR-35 PVC)	0	31	\$65.00	\$0.00
	12" SEWER (SDR-35 PVC)	0	31	\$60.00	\$0.00
	8" SEWER (SDR-35 PVC)	445	31	\$35.00	\$15,575.00
	4' DIA. MANHOLE (1 at 400 ft spacing)	6	31	\$3,000.00	\$18,000.00
	5' DIA. MANHOLE (1 at 400 ft spacing)	0	31	\$4,200.00	\$0.00
	INTERMEDIATE PLATFORM	0	31	\$500.00	\$0.00
	SEWER MAIN CONNECTION	0	31	\$2,000.00	\$0.00
Total Cost					<b>\$33,575.00</b>



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Length (ft) Taper (ft) Total Lots  
 670 0 15

**ALPINE PHLOX LANE**

**STORM SEWER**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	15" STORM SEWER (Class III RCP)	0	L.F.	\$40.00	\$0.00
	18" STORM SEWER (Class III RCP)	7	L.F.	\$45.00	\$315.00
	24" STORM SEWER (Class III RCP)	9	L.F.	\$60.00	\$540.00
	30" STORM SEWER (Class III RCP)	0	L.F.	\$90.00	\$0.00
	36" STORM SEWER (Class III RCP)	244	L.F.	\$120.00	\$29,280.00
	42" STORM SEWER (Class III RCP)	0	L.F.	\$150.00	\$0.00
	48" STORM SEWER (Class III RCP)	0	L.F.	\$190.00	\$0.00
	54" STORM SEWER (Class III RCP)	0	L.F.	\$220.00	\$0.00
	60" STORM SEWER (Class III RCP)	0	L.F.	\$250.00	\$0.00
	6x4' BOX CULVERT (Class III RCBC)	0	L.F.	\$600.00	\$0.00
	10x6' BOX CULVERT (Class III RCBC)	0	L.F.	\$875.00	\$0.00
	HEADWALL (PER CDOT STANDARD) (includes handrails) WITH WINGWALLS	0	EA.	\$50,000.00	\$0.00
	5' DIA. MANHOLE	2	EA.	\$3,000.00	\$6,000.00
	TYPE R INLET (5')	0	EA.	\$4,500.00	\$0.00
	TYPE R INLET (10')	1	EA.	\$6,000.00	\$6,000.00
	TYPE R INLET (15')	1	EA.	\$8,500.00	\$8,500.00
	TYPE 16 INLET (SINGLE)	0	EA.	\$550.00	\$0.00
	TYPE 16 INLET (DOUBLE)	0	EA.	\$700.00	\$0.00
	TYPE 16 INLET (TRIPLE)	0	EA.	\$1,100.00	\$0.00
	TYPE 13 AREA INLET	0	EA.	\$1,700.00	\$0.00
	TYPE C AREA INLET	0	EA.	\$2,400.00	\$0.00
Total Cost					<b>\$50,635.00</b>

**ALPINE PHLOX LANE**

**ROADWAYS**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	FULL DEPTH ASPHALT PAVEMENT (9" THICK)	2,233	S.Y.	\$40.00	\$89,333.00
	TEMPORARY ASPHALT TRANSITION (9" THICK)	0	S.Y.	\$40.00	\$0.00
	CONCRETE PAVEMENT (6" THICK)	0	S.Y.	\$80.00	\$0.00
	6" CONCRETE CURB & GUTTER WITH 2' PAN	1,340	L.F.	\$12.50	\$16,750.00
	6" CONCRETE CURB & GUTTER WITH 1' PAN	0	L.F.	\$12.50	\$0.00
	6"X10' CONCRETE SIDEWALK W/ FIBER MESH	1,340	L.F.	\$40.00	\$53,600.00
	CONCRETE CROSSPAN (6" THICK)	0	EA.	\$2,500.00	\$0.00
	HANDICAP RAMPS	3	EA.	\$1,500.00	\$4,500.00
	STRIPING 1/2 width (2 solid edge lines and 2 dashed lane lines - typ)	0	L.F.	\$0.35	\$0.00
	STRIPING taper (centerline - typ)	0	L.F.	\$0.35	\$0.00
	SIGNAGE (1 Sign every 300 feet)	3	EA.	\$300.00	\$970.00
Total Cost					<b>\$165,153.00</b>

**ALPINE PHLOX LANE**

**DRY UTILITIES**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	ON-SITE STREET GAS LINES	1,340	L.F.	\$0.00	\$0.00
	ON-SITE STREET ELECTRIC LINES	1,340	L.F.	\$0.00	\$0.00
	LOT GAS SERVICE	15	EA.	\$0.00	\$0.00
	LOT ELECTRIC SERVICE	15	EA.	\$0.00	\$0.00
	STREET LIGHTS (ONE SIDE AT 180' SPACING)	1	EA.	\$0.00	\$0.00
Total Cost					<b>\$0.00</b>

**ALPINE PHLOX LANE**

**LANDSCAPING/MONUMENTATION**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	STREETSCAPE LANDSCAPING (MEDIANS/SIDEWALK STRIP)	0	L.F.	\$0.00	\$0.00
	FENCING	0	L.F.	\$0.00	\$0.00
	IRRIGATION AND SLEEVEING	0	L.F.	\$0.00	\$0.00
	MONUMENTATION	0	LS	\$0.00	\$0.00
Total Cost					<b>\$0.00</b>



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 720.482.9526 Fax 720.482.9546

PROJECT: TRAILS AT CROWFOOT  
 CLIENT: E5X  
 FILING 11 COST ESTIMATE

JOB NUMBER: 8.13.0283701  
 DATE: 4/14/2017  
 PREPARED BY: BPW

Length (ft) Taper (ft) Total Lots  
 609 0 16

**FIELD MINT TERRACE DEMOLITION**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	REMOVE EXISTING ASPHALT(8" THICK)	0	S.Y.	\$8.00	\$0.00
	REMOVE EXISTING CONCRETE(6" THICK)	0	S.Y.	\$6.00	\$0.00
	REMOVE EXISTING PIPE	0	L.F.	\$5.00	\$0.00
	REMOVE EXISTING LIGHT	0	EA.	\$200.00	\$0.00
	REMOVE EXISTING MANHOLE/INLET	0	EA.	\$500.00	\$0.00
Total Cost					<b>\$0.00</b>

**FIELD MINT TERRACE EARTHWORK**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	SUBGRADE PREPARATION(clearing & grubbing, 3" topsoil removal/stockpile)	2,436	S.Y.	\$2.00	\$4,872.00
	SUBGRADE PREPARATION TAPER(clearing & grubbing, 3" topsoil removal/stockpile)	0	S.Y.	\$2.00	\$0.00
	STREET GRADING (3xWxL)	0	C.Y.	\$3.00	\$0.00
	STREET OVEREXCAVATION (5' deep & moisture treatment per geotech report)	0	C.Y.	\$6.00	\$0.00
Total Cost					<b>\$4,872.00</b>

**FIELD MINT TERRACE WATER**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	24" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$110.00	\$0.00
	16" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$80.00	\$0.00
	12" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$43.00	\$0.00
	8" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	646	L.F.	\$38.00	\$24,548.00
	6" WATERPIPE (DIP-FIRE HYDRANT LINE)	22	L.F.	\$20.00	\$440.00
	24" BUTTERFLY VALVE W/ VAULT (1 at 1000 ft spacing)	0	EA.	\$18,500.00	\$0.00
	16" BUTTERFLY VALVE W/ VAULT (1 at 1000 ft spacing)	0	EA.	\$16,000.00	\$0.00
	12" GATE VALVE W/ BOX (1 at 400 ft spacing)	0	EA.	\$3,000.00	\$0.00
	8" GATE VALVE W/ BOX (1 at 400 ft spacing)	2	EA.	\$2,000.00	\$4,000.00
	6" GATE VALVE W/ BOX	2	EA.	\$1,000.00	\$2,000.00
	FIRE HYDRANT ASSEMBLY (1 at 400 ft spacing)	2	EA.	\$4,400.00	\$8,800.00
	AIR/VAC VALVE W/ VAULT	0	EA.	\$6,500.00	\$0.00
	8" BLOWOFF (2" END OF PIPE)	0	EA.	\$1,500.00	\$0.00
	12" BLOWOFF (2" END OF PIPE)	0	EA.	\$2,500.00	\$0.00
	16" BLOWOFF (2" END OF PIPE)	0	EA.	\$3,700.00	\$0.00
	24" BLOWOFF (2" END OF PIPE)	0	EA.	\$4,700.00	\$0.00
	8" BEND	3	EA.	\$650.00	\$1,950.00
	12" BEND	0	EA.	\$1,200.00	\$0.00
	8" CROSS	0	EA.	\$1,300.00	\$0.00
	12" CROSS	0	EA.	\$1,300.00	\$0.00
	8" TEE	2	EA.	\$750.00	\$1,500.00
	12" TEE	0	EA.	\$1,050.00	\$0.00
	16" STEEL CASING PIPE	0	L.F.	\$120.00	\$0.00
	20" STEEL CASING PIPE	0	L.F.	\$150.00	\$0.00
	22" STEEL CASING PIPE	0	L.F.	\$165.00	\$0.00
	WATER MAIN CONNECTION	0	EA.	\$2,500.00	\$0.00
	WATER SERVICE LATERAL W/ WATER METER AND PIT	16	EA.	\$1,700.00	\$27,200.00
Total Cost					<b>\$70,438.00</b>

**FIELD MINT TERRACE SANITARY SEWER**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	24" SEWER (SDR-35 PVC)	0	31	\$72.00	\$0.00
	18" SEWER (SDR-35 PVC)	0	31	\$67.00	\$0.00
	15" SEWER (SDR-35 PVC)	0	31	\$65.00	\$0.00
	12" SEWER (SDR-35 PVC)	0	31	\$60.00	\$0.00
	8" SEWER (SDR-35 PVC)	639	31	\$35.00	\$22,365.00
	4' DIA. MANHOLE (1 at 400 ft spacing)	2	31	\$3,000.00	\$6,000.00
	5' DIA. MANHOLE (1 at 400 ft spacing)	0	31	\$4,200.00	\$0.00
	INTERMEDIATE PLATFORM	0	31	\$500.00	\$0.00
	SEWER MAIN CONNECTION	0	31	\$2,000.00	\$0.00
Total Cost					<b>\$28,365.00</b>





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JOB NUMBER: 8.13.0283701  
 DATE: 4/14/2017  
 PREPARED BY: BPW

Length (ft) Taper (ft) Total Lots  
 370 0 10

**SCARLET SAGE AVENUE (STREET BB)**

**DEMOLITION**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	REMOVE EXISTING ASPHALT(6" THICK)	0	S.Y.	\$8.00	\$0.00
	REMOVE EXISTING CONCRETE(6" THICK)	0	S.Y.	\$6.00	\$0.00
	REMOVE EXISTING PIPE	0	L.F.	\$5.00	\$0.00
	REMOVE EXISTING LIGHT	0	EA.	\$200.00	\$0.00
	REMOVE EXISTING MANHOLE/INLET	0	EA.	\$500.00	\$0.00
Total Cost					<b>\$0.00</b>

**SCARLET SAGE AVENUE (STREET BB)**

**EARTHWORK**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	SUBGRADE PREPARATION(clearing & grubbing, 3" topsoil removal/stockpile)	1,069	S.Y.	\$2.00	\$2,138.00
	SUBGRADE PREPARATION TAPER(clearing & grubbing, 3" topsoil removal/stockpile)	0	S.Y.	\$2.00	\$0.00
	STREET GRADING (3xWxL)	0	C.Y.	\$3.00	\$0.00
	STREET OVEREXCAVATION (5' deep & moisture treatment per geotech report)	0	C.Y.	\$6.00	\$0.00
Total Cost					<b>\$2,138.00</b>

**SCARLET SAGE AVENUE (STREET BB)**

**WATER**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	24" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$110.00	\$0.00
	16" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$80.00	\$0.00
	12" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	0	L.F.	\$43.00	\$0.00
	8" WATERPIPE (C900) (INCLUDES ALL FITTINGS/THRUST BLOCKS)	362	L.F.	\$38.00	\$13,756.00
	6" WATERPIPE (DIP-FIRE HYDRANT LINE)	27	L.F.	\$20.00	\$540.00
	24" BUTTERFLY VALVE W/ VAULT (1 at 1000 ft spacing)	0	EA.	\$18,500.00	\$0.00
	16" BUTTERFLY VALVE W/ VAULT (1 at 1000 ft spacing)	0	EA.	\$16,000.00	\$0.00
	12" GATE VALVE W/ BOX (1 at 400 ft spacing)	0	EA.	\$3,000.00	\$0.00
	8" GATE VALVE W/ BOX (1 at 400 ft spacing)	0	EA.	\$2,000.00	\$0.00
	6" GATE VALVE W/ BOX	1	EA.	\$1,000.00	\$1,000.00
	FIRE HYDRANT ASSEMBLY (1 at 400 ft spacing)	1	EA.	\$4,400.00	\$4,400.00
	AIR/VAC VALVE W/ VAULT	0	EA.	\$6,500.00	\$0.00
	8" BLOWOFF (2" END OF PIPE)	0	EA.	\$1,500.00	\$0.00
	12" BLOWOFF (2" END OF PIPE)	0	EA.	\$2,500.00	\$0.00
	16" BLOWOFF (2" END OF PIPE)	0	EA.	\$3,700.00	\$0.00
	24" BLOWOFF (2" END OF PIPE)	0	EA.	\$4,700.00	\$0.00
	8" BEND	6	EA.	\$650.00	\$3,900.00
	12" BEND	0	EA.	\$1,200.00	\$0.00
	8" CROSS	0	EA.	\$1,300.00	\$0.00
	12" CROSS	0	EA.	\$1,300.00	\$0.00
	8" TEE	1	EA.	\$750.00	\$750.00
	12" TEE	0	EA.	\$1,050.00	\$0.00
	16" STEEL CASING PIPE	0	L.F.	\$120.00	\$0.00
	20" STEEL CASING PIPE	0	L.F.	\$150.00	\$0.00
	22" STEEL CASING PIPE	0	L.F.	\$165.00	\$0.00
	WATER MAIN CONNECTION	0	EA.	\$2,500.00	\$0.00
	WATER SERVICE LATERAL W/ WATER METER AND PIT	10	EA.	\$1,700.00	\$17,000.00
Total Cost					<b>\$41,346.00</b>

**SCARLET SAGE AVENUE (STREET BB)**

**SANITARY SEWER**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	24" SEWER (SDR-35 PVC)	0	31	\$72.00	\$0.00
	18" SEWER (SDR-35 PVC)	0	31	\$67.00	\$0.00
	15" SEWER (SDR-35 PVC)	0	31	\$65.00	\$0.00
	12" SEWER (SDR-35 PVC)	0	31	\$60.00	\$0.00
	8" SEWER (SDR-35 PVC)	332	31	\$35.00	\$11,620.00
	4' DIA. MANHOLE (1 at 400 ft spacing)	5	31	\$3,000.00	\$15,000.00
	5' DIA. MANHOLE (1 at 400 ft spacing)	0	31	\$4,200.00	\$0.00
	INTERMEDIATE PLATFORM	0	31	\$500.00	\$0.00
	SEWER MAIN CONNECTION	0	31	\$2,000.00	\$0.00
Total Cost					<b>\$26,620.00</b>



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 370 0 10

**SCARLET SAGE AVENUE (STREET BB)**

**STORM SEWER**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	15" STORM SEWER (Class III RCP)	0	L.F.	\$40.00	\$0.00
	18" STORM SEWER (Class III RCP)	0	L.F.	\$45.00	\$0.00
	24" STORM SEWER (Class III RCP)	0	L.F.	\$60.00	\$0.00
	30" STORM SEWER (Class III RCP)	0	L.F.	\$90.00	\$0.00
	36" STORM SEWER (Class III RCP)	0	L.F.	\$120.00	\$0.00
	42" STORM SEWER (Class III RCP)	0	L.F.	\$150.00	\$0.00
	48" STORM SEWER (Class III RCP)	0	L.F.	\$190.00	\$0.00
	54" STORM SEWER (Class III RCP)	0	L.F.	\$220.00	\$0.00
	60" STORM SEWER (Class III RCP)	0	L.F.	\$250.00	\$0.00
	6x4' BOX CULVERT (Class III RCBC)	0	L.F.	\$600.00	\$0.00
	10x6' BOX CULVERT (Class III RCBC)	0	L.F.	\$875.00	\$0.00
	HEADWALL (PER CDOT STANDARD) (includes handrails) WITH WINGWALLS	0	EA.	\$50,000.00	\$0.00
	5' DIA. MANHOLE	0	EA.	\$3,000.00	\$0.00
	TYPE R INLET (5')	0	EA.	\$4,500.00	\$0.00
	TYPE R INLET (10')	0	EA.	\$6,000.00	\$0.00
	TYPE R INLET (15')	0	EA.	\$8,500.00	\$0.00
	TYPE 16 INLET (SINGLE)	0	EA.	\$550.00	\$0.00
	TYPE 16 INLET (DOUBLE)	0	EA.	\$700.00	\$0.00
	TYPE 16 INLET (TRIPLE)	0	EA.	\$1,100.00	\$0.00
	TYPE 13 AREA INLET	0	EA.	\$1,700.00	\$0.00
	TYPE C AREA INLET	0	EA.	\$2,400.00	\$0.00
Total Cost					<b>\$0.00</b>

**SCARLET SAGE AVENUE (STREET BB)**

**ROADWAYS**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	FULL DEPTH ASPHALT PAVEMENT (9" THICK)	822	S.Y.	\$40.00	\$32,889.00
	TEMPORARY ASPHALT TRANSITION (9" THICK)	0	S.Y.	\$40.00	\$0.00
	CONCRETE PAVEMENT (6" THICK)	0	S.Y.	\$80.00	\$0.00
	6" CONCRETE CURB & GUTTER WITH 2' PAN	740	L.F.	\$12.50	\$9,250.00
	6" CONCRETE CURB & GUTTER WITH 1' PAN	0	L.F.	\$12.50	\$0.00
	6"x10' CONCRETE SIDEWALK W/ FIBER MESH	740	L.F.	\$40.00	\$29,600.00
	CONCRETE CROSSPAN (6" THICK)	0	EA.	\$2,500.00	\$0.00
	HANDICAP RAMPS	0	EA.	\$1,500.00	\$0.00
	STRIPING 1/2 width (2 solid edge lines and 2 dashed lane lines - typ)	0	L.F.	\$0.35	\$0.00
	STRIPING taper (centerline - typ)	0	L.F.	\$0.35	\$0.00
	SIGNAGE (1 Sign every 300 feet)	2	EA.	\$300.00	\$670.00
Total Cost					<b>\$72,409.00</b>

**SCARLET SAGE AVENUE (STREET BB)**

**DRY UTILITIES**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	ON-SITE STREET GAS LINES	740	L.F.	\$0.00	\$0.00
	ON-SITE STREET ELECTRIC LINES	740	L.F.	\$0.00	\$0.00
	LOT GAS SERVICE	10	EA.	\$0.00	\$0.00
	LOT ELECTRIC SERVICE	10	EA.	\$0.00	\$0.00
	STREET LIGHTS (ONE SIDE AT 180' SPACING)	0	EA.	\$0.00	\$0.00
Total Cost					<b>\$0.00</b>

**SCARLET SAGE AVENUE (STREET BB)**

**LANDSCAPING/MONUMENTATION**

Item	Description	Quantity	Unit	Cost/Unit	Total Cost
	STREETSCAPE LANDSCAPING (MEDIANS/SIDEWALK STRIP)	0	L.F.	\$0.00	\$0.00
	FENCING	0	L.F.	\$0.00	\$0.00
	IRRIGATION AND SLEEVEING	0	L.F.	\$0.00	\$0.00
	MONUMENTATION	0	LS	\$0.00	\$0.00
Total Cost					<b>\$0.00</b>