



Details: Stormwater pipe shows signs of heavy corrosion, scouring, and undercutting. Pipe is out of round.



Details: 48" metal pipe



Project:	223 Cedar Trail	Page
Date:	July 18, 2018	1

General Information		Мар
Project ID		Curved
Street Name	223 Cedar Trail	
Site Visit Date	1/21/2016	Vorning C. Ce & Olde: Oak Dr
Road Classification	Minor road	Olde:Oak:Dr
Project Notes		The same of the sa
Project Notes		W. Beston
		Valley Brook 7/1
		of the
		Cedar: Oak-Way-
Field N	Notes	THE THE PARTY OF T
Design (Existing		Morning-Creek:Way
Existing Road Laneage	2-13'	/Morning-Creex-way
Existing Shld Width (paved and		
Existing Side Slopes	2:1	Hewell:Rd
Existing Guardrail	None	The second secon
Depth fm Pavement to Top of Cu		
Pipe Type and Size	48" CMP	untcliff.ct
Pipe Condition (1-5) (1 is new)	4-5	
Condition Notes: Rusted out botton	ms, no headwalls. Streambed	N 0 0.25 0.5 1
blowout on downstream side		Miles
		# Forest Rd
Pavement Type/Condition	Asphalt/Good	
		Stage Construction Options
Environment	tal Features	Close Location to Traffic
Wetlands		Maintain One Lane - No Temp Pavement X
Ditches	Roadside drainage ditches	Maintain One Lane - Temp Pavement
State Waters		Stage Construction Notes:
Utilities (Visua		
Electric	Unknown	
Cable	Unknown	
Phone	Unknown	
Gas	Unknown	
Water	Unknown	
Sewer		
Other	D	1 Daylor
		ed Design
Roadway Section	Typical	
	48" round RCP with straight head	wall
Culvert Size & Material	140 Tourid NOF With Straight flead	wall
Utility Relocations		
Guardrail Replacement		
Miscollanocus Fostures		
Miscellaneous Features		
_		ost Estimate
Туре	Notes	
Design	Includes 10% of Construction (
Right of Way Cost	Project entirely	
Utility Relocation Cost	None iden	
Construction Cost	Assuming minimal environme	\$39,279 ental permitting required \$10,000
Environmental Permits	Assuming minimal environme	antai permitting required \$10,000
	T-4:15	landing Fallmata #50.000
	I Otal P	lanning Estimate \$58,206



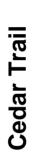




Photo 1: Upstream end of culvert.



Photo 2: Downstream end of culvert looking North towards Cedar Trail.

Photo Date:

1/21/2016

Taken By:

David Gibbs

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Roadway Construction, Utility Relocation and ROW Quantity Calculations

Roadway Construction	Removal	Unit Cost	Installation Unit Cost	Amount		Total Cost
Pavement (SF)	\$	0.73	\$ 4.87		\$	874.43
Curb and Gutter (LF)	\$	28.56	\$ 30.60			-
Drain Inlet (EA)	*		\$ 3,000.00			-
4" Sidewalk (SY)	\$	13.56	\$ 36.90	0.00	\$	-
Guardrail (LF)	\$	4.88	\$ 49.09			-
End Anchorage (EA)	·		\$ 1,380.00	0.00	\$	-
Subtotal			,		\$	874.43
Grading Complete (5% of Rwy Items & Drng Total \$)						
Roadway Total					\$	2,220.52
Drainage	Damarial	Unit Cost	Installation Unit Cost	A		Tatal Coat
Trench Excavation (CY)	Removal	Unit Cost	\$ 10.38			Total Cost
` ,	\$	24.60	φ 10.30			1,199.47 1,279.20
48" CMP (LF) 48" RCP (LF)	Ф	24.00	\$ 193.20	52.00 52.00		10,046.40
Class A Conc (CY)			\$ 892.19			12,222.98
Steel (lb)			\$ 1.42			12,222.90
Pipe Bedding (CY)			\$ 48.60			561.60
Trench Backfill (CY)			\$ 2.99			272.96
Trench Compaction (CY)			\$ 6.36			464.81
Treffor Compaction (CT)			ψ 0.50	73.00	Ψ	404.01
Drainage Total					\$	26,047.41
Signing and Marking			Installation Unit Cost	Amount		Total Cost
Permanent Striping (LF)			\$ 0.71		\$	-
6: : IM I: T.I					•	
Signing and Marking Total					\$	-
Staging			Installation Unit Cost	Amount		Total Cost
Clearing and Grubbing (Acre)			\$ 10,260.00		\$	769.50
Temporary Pavement			Ψ 10,200.00	0.00	Ψ	0
Temporary Drainage (Stream Diversion)			\$ 4,428.00	1.00	\$	4,428.00
remperary Dramage (encam Diversion)			,,,20,00		Ψ	1, 120.00
Staging Total					\$	5,197.50
Erosion Control			Installation Unit Cost			Total Cost
Fine Grading and Seeding (SY)			\$ 4.39			76.13
Temporary Grassing (AC)			\$ 855.60			-
Type C Silt Fence (LF)			\$ 4.24			881.09
Check Dam Type C Silt Fence (LF)			\$ 6.79 \$ 1.87			1,412.74
Erosion Control Mats (SY)						-
Landscape Mulch (SY) Perm Grassing (AC)			\$ 3.58 \$ 1,402.20			-
Rip Rap Type 3 12" (SY)			\$ 60.98			487.87
Plastic Filter Fabric (SY)			\$ 5.72			45.79
4" Ditch Paving (SY)			\$ 54.65			
· Dion · dinig (0 ·)			Ψ 01.00	0.00	۳	
Erosion Control Total					\$	2,903.62
0 0					•	
Construction Cost Total					\$	36,369.05
Traffic Control (8% of Construction Total	\$)				\$	2,909.52
Traine Control (6% of Construction Total \$)					Ψ	2,000.02
Construction Cost Grand Total					\$	39,278.58
Utility Relocation	Removal	Unit Cost	Installation Unit Cost	Amount		Total Cost
Electric	•	44.00	¢	0.00	ф	
Aerial Buried	\$ \$	11.00 16.50	\$ 55.00 \$ 82.50			-
Wooden Pole	\$ \$	82.50	\$ 605.00			-
Phone	φ	02.50	ψ 000.00	0.00	ψ	-
Aerial	\$	11.00	\$ 27.50	0.00	\$	_
Buried	\$	16.50	\$ 55.00			_
Wooden Pole	\$	82.50	\$ 605.00			-
Cable	•		*		•	
Aerial	\$	11.00	\$ 27.50	0.00	\$	-
Buried	\$	16.50	\$ 55.00			-
Wooden Pole	\$	82.50	\$ 605.00	0.00	\$	-
Gas	_				_	
4" main	\$	16.50	\$ 66.00	0.00	\$	-
Water	•	40.50	¢ 02.50	0.00	Φ.	
8" main	\$	16.50	\$ 93.50	0.00	Ф	-
Sewer 12" main	\$	16.50	\$ 82.50	0.00	\$	_
Utility Relocation Total	Ψ	10.00	Ψ 02.30	0.00	\$	-
Carry Noiceation Total					Ψ	
Right of Way (Sq Ft)			Cost/ Sq Ft	Sq Ft	Tot	al Cost
Permanent Easement			\$ 4.00	•	\$	-
ROW Total					\$	-