

**Preliminary Opinion of Probable Construction Costs
Town of Richmond - East Main Stormwater Outfall Project**

Storm Water from East Main Street to Outfall

Prepared By: GME		Prepared: 12/28/2018		
DESCRIPTION			UNIT	TOTAL PROJECT
	UNIT	QTY.	PRICE	AMOUNT
C - EARTH WORK				
C-1 - Rock Removal	c.y.	10	\$150.00	\$1,500.00
C-2 - Boulder Excavation	c.y.	10	\$75.00	\$750.00
C-3 - Miscellaneous Extra Excavation	c.y.	25	\$50.00	\$1,250.00
C-4 - Excavation & Rep. of Unsuitable Material	c.y.	25	\$70.00	\$1,750.00
D - ROAD, SIDEWALK, DRIVE CONSTRUCTION				
D-1 - Bituminous Sidewalk & Drive Removal	s.y.	165	\$5.00	\$825.00
D-2 - Bituminous Driveway Repair	s.y.	165	\$40.00	\$6,600.00
E -STORM DRAIN SYSTEM & APPURTENANCES				
E-1 - 24-inch HDPE Drainage Pipe	l.f.	345	\$95.00	\$32,775.00
E-2 - 24-inch HDPE Drainage Pipe (DIRECTIONAL BORED)	l.f.	180	\$200.00	\$36,000.00
E-3 - 4' Dia. Concrete Storm Sewer Basin	v.f.	30	\$550.00	\$16,500.00
E-4 - Existing Catch Basin Removal	ea.	1	\$1,500.00	\$1,500.00
E-5 - Existing Storm Drain Removal	l.f.	345	\$12.00	\$4,140.00
E-6 - End Section & Stone Rip Rap Installation	ea.	1	\$3,500.00	\$3,500.00
E-7 - Vortech Swirler with Bypass Weir Manholes (2)	l.s.	1	\$150,000.00	
F - INCIDENTAL WORK				
F-1 - Calcium Chloride for Dust Control	Ton	1	\$650.00	\$650.00
F-2 - Miscellaneous Traffic Control	l.s.	1	\$5,000.00	\$5,000.00
F-3 - Railroad Traffic Control	l.s.	1	\$12,000.00	\$12,000.00
F-3 - Erosion Control	l.s.	1	\$5,000.00	\$5,000.00
G - PROJECT ADMINISTRATION				
G-1 - Bonds	l.s.	1	\$5,000.00	\$5,000.00
G-2 - Site Preparation and Miscellaneous Work	l.s.	1	\$25,000.00	\$25,000.00
SUBTOTAL				\$159,740.00
CONTINGENCY (10% of Construction)				\$15,974.00
OPINION OF PROBABLE CONSTRUCTION COSTS				\$175,714.00

Notes

1) E-7 - Vortech Swirler with Bypass Weir Manholes is not included the total costs