

PRELIMINARY COST ESTIMATE
COMPREHENSIVE ENVIRONMENTAL INC.
Town of Lexington - Revere Street

Item No.	Description	Quantity	Unit	Unit Price	Subtotal	Source
	Mob / Demob	1.0	ls	\$12,000.00	\$12,000.00	Concord Ave Bid
	Erosion Control - Compost Filter Sock	320.0	lf	\$11.00	\$3,520.00	Concord Ave Bid
	Clearing and Grubbing Land	1.0	ls	\$4,000.00	\$4,000.00	CEI Estimate
	Tree Removal and Disposal (6")	5.0	ea	\$564.00	\$2,820.00	Means 31 11 10.10 7040
	Tree Removal and Disposal (12")	2.0	ea	\$790.00	\$1,580.00	Means 31 11 10.10 7080
	Pavement Saw Cut/ Removal	175.0	sy	\$8.00	\$1,400.00	Means 02 41 13.17 5010
	Maintenance and Protection of Traffic (Detour signs & Pedestrian Walkway Protection)	3.0	week	\$2,000.00	\$6,000.00	CEI Estimate
	Temporary Stream Diversion - 24" Diameter HDPE pipe	120.0	lf	\$61.00	\$7,320.00	Pipe Plus, Inc. Leominster, MA
	Temporary Stream Diversion - Jersey concrete barrier 10'Lx2' by 0.5'Wx32"H / Sandbags OR Drive Steel Plates	4.0	ea	\$679.00	\$2,716.00	Means 34 71 13.17 1500
	Existing Culvert Removal	95.0	lf	\$20.00	\$1,900.00	CEI Estimate
	Existing Catch Basin Removal	2.0	ea	\$1,500.00	\$3,000.00	CEI Estimate
	Remove Existing 12" RCP Drain Pipe	16.0	lf	\$23.00	\$368.00	Means 02 41 13.38 0090
	Dewatering Labor	3.0	week	\$4,512.00	\$13,536.00	Means Crew B-10I
	Frac Tank with Pump and Hosing	3.0	week	\$5,200.00	\$15,600.00	Rain for Rent
	Box Culvert Subbase Excavation, Hauling/ Storage and Prep	404.0	cy	\$70.00	\$28,280.00	CEI Estimate
	Box Culvert Subbase 3/4" Crushed Stone, Furnish & Install	25.0	cy	\$60.00	\$1,500.00	CEI Estimate
	Box Culvert Gravel Borrow - Furnish & Install	56.0	cy	\$60.00	\$3,360.00	CEI Estimate
	8' x 6' Precast Concrete Box Culvert including delivery	63.0	lf	\$636.00	\$40,068.00	Concrete Systems Unit Price
	Precast Cutoff Walls	Included in Box Culvert Total				Concrete Systems Unit Price
	Cemented Stone Masonry Wingwalls (90° and 30°)	2.0	ea	\$2,500.00	\$5,000.00	CEI Estimate
	Cemented Stone Masonry Headwalls	1.0	ea	\$1,000.00	\$1,000.00	CEI Estimate
	Designed Streambed Material	28.0	cy	\$100.00	\$2,800.00	Concord Ave Bid
	Bank Rock	18.0	cy	\$120.00	\$2,160.00	CEI Estimate
	Utility Modifications Excavation, Hauling/ Storage and Prep	188.0	cy	\$70.00	\$13,160.00	CEI Estimate
	Utility Modifications Gravel Borrow - Furnish & Install	107.0	cy	\$60.00	\$6,420.00	CEI Estimate
	12" Ductile Iron Water Main - Furnish & Install	55.0	lf	\$80.00	\$4,400.00	Pipe Plus, Inc. Leominster, MA Means 33 11 13.15 2100
	Water Main 45-degree Bends	4.0	ea	\$1,692.00	\$6,768.00	Means 33 11 13.15 8410
	Water Main Transition Couplings / Joint Restraints / Caps	1.0	ls	\$5,640.00	\$5,640.00	Means 33 11 13.15 8410
	Water Main Service Tapping	1.0	ea	\$880.00	\$880.00	CEI Estimate
	Water Main 12" Gate Valves	2.0	ea	\$3,384.00	\$6,768.00	Means 33 12 16.20 9080
	Removal & Disposal of Water Pipe	70.0	lf	\$20.00	\$1,400.00	CEI Estimate
	Water Main 24" Steel Sleeve Encasement	20.0	lf	\$156.00	\$3,120.00	FW Webb Farwest Corrosion
	8" PVC Sewer Main - Furnish & Install	50.0	lf	\$45.00	\$2,250.00	Pipe Plus, Inc. Leominster, MA

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Item No.	Description	Quantity	Unit	Unit Price	Subtotal	Source
	Sewer Main Fittings - Hymax	1.0	ls	\$1,000.00	\$1,000.00	CEI Estimate
	Sewer Main 12" Steel Sleeve Encasement	20.0	lf	\$112.00	\$2,240.00	FW Webb Farwest Corrosion
	Sewer Drop Manhole - 14' Deep	1.0	ea	\$7,500.00	\$7,500.00	CEI Estimate
	Sewer Frame and Cover	1.0	ea	\$500.00	\$500.00	CEI Estimate
	Removal & Disposal of Asbestos Cement Sewer Pipe	55.0	lf	\$55.00	\$3,025.00	CEI Estimate
	Drainage Catch Basin	2.0	ea	\$4,500.00	\$9,000.00	CEI Estimate
	12" RCP Drain Pipe	30.0	lf	\$50.00	\$1,500.00	Pipe Plus, Inc. Leominster, MA
	Riprap Stone for Pipe Outlet	5.0	sy	\$60.00	\$300.00	CEI Estimate
	Bank Stabilization - Compacted Soil Lifts & Compost Socks	120.0	lf	\$87.00	\$10,440.00	CEI Streambank Items Estimate
	Bank Stabilization - Gabion Structural Stabilization	1.0	ls	\$9,340.00	\$9,340.00	CEI Streambank Items Estimate
	Cement Concrete Walkway	10.0	sy	\$50.00	\$500.00	MassDOT Weighted Bid Prices
	Road Subbase Material - Gravel Borrow Subbase 12" deep	58.0	cy	\$85.00	\$4,930.00	Concord Ave Bid
	Culvert Crossing Road & Sidewalk Fine Grading	192.0	sy	\$15.00	\$2,880.00	CEI Estimate
	Bituminous Binder Course 2 1/2" thick	25.0	tons	\$190.00	\$4,750.00	Concord Ave Bid
	Bituminous Top Course 1 1/2" thick	15.0	tons	\$200.00	\$3,000.00	Concord Ave Bid
	Sidewalk Paving 3" Thick	3.0	tons	\$195.00	\$585.00	Concord Ave Bid
	Permanent Pavement Markings (4-Inch Yellow Line)	70.0	lf	\$1.50	\$105.00	Concord Ave Bid
	Wooden Post Fencing	40.0	lf	\$16.00	\$640.00	Boston Fence & Vinyl
	Guardrail along Headwall	22.0	lf	\$375.00	\$8,250.00	MassDOT Weighted Bid Prices
	Disturbed Areas Restoration - Loam & Seed w/ Blanket	112.0	sy	\$20.00	\$2,240.00	CEI Estimate
	Disturbed Areas Restoration - Landscaping Replacement	25.0	sy	\$25.00	\$625.00	CEI Estimate
	Disturbed Areas Restoration - Driveway Paver Replacement	1.0	ls	\$2,000.00	\$2,000.00	CEI Estimate
	Police Detail/ Traffic	120.0	hrs	\$50.00	\$6,000.00	Concord Ave Bid
Overall Project						
	Subtotal for All Items				\$292,090	
	Contingency Percentage-Construction Contingency	10 %			\$29,210	
	Total				\$321,300	