

Ref #	Description	Control		\$/Unit with Material, Labor, Equip, Overhead, & Profit	Time Factor (TF)	Item Total	Notes
		Quantity	Unit			\$ Total Cost	
<b>Site Preparation</b>							
1.01	Install construction entrances	18	BCY	\$19.41	1.00	\$343	4
1.02	Install temporary access roads	1298	SY	\$20.99	1.00	\$27,251	2
1.03	Install perimeter controls	3091	LF	\$6.10	1.00	\$18,851	4
1.04	Provide office trailer	1	EA	\$1,953.52	1.00	\$1,954	4
1.06	Dust control	30	day	\$1,180.05	1.00	\$35,401	2
<b>Commonwealth Avenue Access Improvements</b>							
2.01	Remove existing asphalt pavement	250	LF	\$1.57	1.00	\$393	4
2.02	Provide and install gravel	93	BCY	\$30.53	1.00	\$2,826	4
2.03	Excavate grassed channel	14	BCY	\$20.43	1.00	\$281	4
2.04	Seed grassed channel	83	SY	\$8.17	1.00	\$676	4
2.05	Install parking sign	1	EA	\$249.77	1.00	\$250	4
2.06	Install parking block	1	EA	\$153.23	1.02	\$157	1,4
2.07	Excavate 6 in. sand	7	BCY	\$20.43	1.00	\$137	4
2.08	Install cedar logs	68	VLF	\$43.45	1.00	\$2,954	2
2.09	Backfill 6 in. clean 3/4 in. gravel	7	BCY	\$80.00	1.00	\$538	4
2.10	Invasives species treatment and removal	877	SY	\$8.17	1.02	\$7,317	1,3
<b>Dewatering Area</b>							
3.01	Provide and install dewatering area perimeter controls	1,881	LF	\$11.24	1.02	\$21,593	1,4
3.02	Install jersey barriers	2,069	LF	\$166.35	1.02	\$351,620	1,4
3.03	Install sump	392	BCY	\$35.75	1.00	\$14,008	4
3.04	Install crushed stone in sump	392	BCY	\$30.53	1.00	\$11,963	4
3.05	Provide and install sediment filter bags	30	EA	\$102.16	1.04	\$3,198	1,4
3.06	Install perimeter dewatering drain	302	CF	\$35.75	1.00	\$10,806	4
3.07	Provide and install geomembrane and key into trench	225,087	SF	\$0.60	1.00	\$135,052	3
3.08	Provide and install geotextile tubes	5,493	LF	\$30.39	1.02	\$170,540	1,3
3.09	Provide and install inlet and outflow pipes	181	EA/Month	\$260.03	1.00	\$47,117	2
<b>Dredging and Wetland Shelf Creation</b>							
4.01	Pre-dredge surveys	1	LS	\$2,860.38	1.02	\$2,922	1,4
4.02	Install turbidity curtains	1,692	LF	\$30.07	1.02	\$51,984	1,4
4.03	Install wetland shelf perimeter controls	833	LF	\$6.10	1.00	\$5,080	4
4.04	Dredge north dredge area to final grades and pump to wetland/shelf/geotubes	4,970	BCY	\$22.72	1.00	\$112,916	2
4.05	Dredge south dredge area to final grades and pump to geotubes	30,800	BCY	\$22.72	1.00	\$699,763	2

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4.06	Debris removal	10	Ton	\$112.45	1.02	\$1,149	1,3
4.07	Segregate potentially contaminated south dredge area sediment	646	LCY	\$15.32	1.04	\$10,330	1,4
4.08	Post-dredge surveys	1	LS	\$2,860.38	1.02	\$2,922	1,4
4.09	Sample and test potentially contaminated sediment	7	EA	\$1,225.88	1.02	\$8,766	1,4
4.10	Load & transport contaminated sediment	630	Ton	\$112.37	1.00	\$70,794	4
4.11	Dispose contaminated sediment	630	Ton	\$36.78	1.02	\$23,669	1,4
4.12	Load dewatered sediment	32,865	LCY	\$14.61	1.02	\$490,521	1,3
4.13	Transport dewatered sediment to Dredge Material Disposal Site	102,539	CY/mile	\$0.80	1.00	\$81,705	2
4.14	Place dewatered sediment at Dredge Material Disposal Site	32,865	LCY	\$1.90	1.00	\$62,447	2
4.15	Load C&D Waste	1,870	CY	\$27.06	1.00	\$50,606	2
4.16	Transport C&D Waste	7,480	CY/mile	\$0.80	1.00	\$5,960	2
4.17	Dispose C&D Waste	1,989	SY	\$10.22	1.00	\$20,315	4
<b>Restoration</b>							
5.01	Provide and install plants for wetland shelf	12,700	EA	\$2.19	1.00	\$27,764	5
5.02	Install herbivory protection	51,516	SF	\$0.25	1.00	\$12,705	2,3
5.03	Provide restoration seed mix	79	LB	\$18.39	1.00	\$1,461	5
5.04	Provide wildflower seed mix	4	LB	\$75.00	1.00	\$312	5
5.05	Seed areas of invasive management	877	SY	\$2.55	1.02	\$2,287	1,4
<b>Sub-Total</b>						\$2,612,000	
5.01	Mobilization/Demobilization	10%	-	-	-	\$261,000	-
5.02	Insurance	0.64%	-	-	-	\$16,700	-
5.03	Performance Bond	2.50%	-	-	-	\$65,000	-
<b>Construction Subtotal</b>						\$2,955,000	
<b>TOTAL</b>						\$2,955,000	
<b>10%</b>						\$3,250,500	
<b>Notes</b>							
1. Costs adjusted with time factor (TF) to 2022 to account for inflation using the RSMeans Historical Cost Index. The adjustment factor from 2020 to 2021 was used (1.02156334) assuming the adjustment rate will be similar. 2. Cost from RSMeans Site Work & Landscape Cost Data for Year 2022. Accessed online with adjustment for Lowell, Massachusetts. 3. Cost from EA prior project experience. 4. Cost from Rhode Island Department of Transportation Weighted Average Unit Prices 2022, 2021, and 2020. 5. Cost from New England Wetland Plants, Inc. website, accessed 2022.							