



**GREEN INTERNATIONAL AFFILIATES, INC.**  
 Civil and Structural Engineers  
 239 Littleton Road, Suite 3  
 Westford, MA 01886

CLIENT: City of Framingham  
 EN PROJECT NUMBER: 15063.13x  
 PROJECT NAME: Salem End Road Bridge Rehab.  
 CONTRACT NUMBER: PW-401

SHEET NO.  
 CALCULATED BY  
 CHECKED BY  
 DESCRIPTION

OF  
 DATE  
 DATE

1  
 January 21, 2019  
 January 21, 2019

Item #	Item Description	Unit	Quantity	SW Construction Enterprises, LLC		NEL Corporation		E.T.&L. Corp		Northern Construction Service, LLC		New England Infrastructure, Inc.	
				Unit Cost	Extended Cost	Unit Cost	Extended Cost	Unit Cost	Extended Cost	Unit Cost	Extended Cost	Unit Cost	Extended Cost
101.	CLEARING AND GRUBBING	ACRE	0.1	\$ 40,000.00	\$ 2,000.00	\$ 30,000.00	\$ 1,500.00	\$ 72,000.00	\$ 3,600.00	\$ 15,000.00	\$ 750.00	\$ 180,000.00	\$ 9,000.00
114.1	DEMOLITION OF SUPERSTRUCTURE OF BRIDGE NO. F-07-002 (244)	LS	1.0	\$ 158,000.00	\$ 158,000.00	\$ 125,000.00	\$ 125,000.00	\$ 85,000.00	\$ 85,000.00	\$ 160,000.00	\$ 160,000.00	\$ 75,000.00	\$ 75,000.00
120.1	UNCLASSIFIED EXCAVATION	CY	4.0	\$ 125.00	\$ 500.00	\$ 50.00	\$ 200.00	\$ 53.00	\$ 212.00	\$ 300.00	\$ 1,200.00	\$ 300.00	\$ 1,200.00
127.1	REINFORCED CONCRETE EXCAVATION	CY	10.0	\$ 2,500.00	\$ 25,000.00	\$ 1,000.00	\$ 10,000.00	\$ 1,600.00	\$ 16,000.00	\$ 4,000.00	\$ 40,000.00	\$ 900.00	\$ 9,000.00
150.	ORDINARY BORROW	CY	5.0	\$ 125.00	\$ 625.00	\$ 50.00	\$ 250.00	\$ 29.00	\$ 145.00	\$ 150.00	\$ 750.00	\$ 180.00	\$ 900.00
180.4	SOIL AND WASTE MANAGEMENT	CY	1.0	\$ 5,000.00	\$ 5,000.00	\$ 400.00	\$ 400.00	\$ 850.00	\$ 850.00	\$ 2,500.00	\$ 2,500.00	\$ 1,000.00	\$ 1,000.00
183.	DEWATERING	DAY	1.0	\$ 500.00	\$ 500.00	\$ 7,000.00	\$ 7,000.00	\$ 1,350.00	\$ 1,350.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00
183.3	ASBESTOS CEMENT PIPE REMOVAL	FT	10.0	\$ 1,000.00	\$ 10,000.00	\$ 100.00	\$ 1,000.00	\$ 150.00	\$ 1,500.00	\$ 250.00	\$ 2,500.00	\$ 700.00	\$ 7,000.00
191.6	TEST PIT	EA	2.0	\$ 1,000.00	\$ 2,000.00	\$ 250.00	\$ 500.00	\$ 1,000.00	\$ 2,000.00	\$ 1,000.00	\$ 2,000.00	\$ 700.00	\$ 1,400.00
358.	GATE BOX ADJUSTED	EA	1.0	\$ 800.00	\$ 800.00	\$ 200.00	\$ 200.00	\$ 250.00	\$ 250.00	\$ 200.00	\$ 200.00	\$ 350.00	\$ 350.00
415.	PAVEMENT MICROMILLING	SY	180.0	\$ 48.00	\$ 8,640.00	\$ 30.00	\$ 5,400.00	\$ 53.00	\$ 9,540.00	\$ 20.00	\$ 3,600.00	\$ 35.00	\$ 6,300.00
450.6	HMA BRIDGE SURFACE COURSE – MODIFIED TOP	TON	30.0	\$ 400.00	\$ 12,000.00	\$ 575.00	\$ 17,250.00	\$ 370.00	\$ 11,100.00	\$ 250.00	\$ 7,500.00	\$ 300.00	\$ 9,000.00
450.7	HMA BRIDGE PROTECTIVE COURSE – DENSE BINDER	TON	30.0	\$ 400.00	\$ 12,000.00	\$ 575.00	\$ 17,250.00	\$ 370.00	\$ 11,100.00	\$ 250.00	\$ 7,500.00	\$ 300.00	\$ 9,000.00
460.	HOT MIX ASPHALT	TON	15.0	\$ 300.00	\$ 4,500.00	\$ 600.00	\$ 9,000.00	\$ 242.00	\$ 3,630.00	\$ 250.00	\$ 3,750.00	\$ 300.00	\$ 4,500.00
464.	ASPHALT EMULSION FOR TACK COAT	GAL	12.0	\$ 60.00	\$ 720.00	\$ 20.00	\$ 240.00	\$ 26.00	\$ 312.00	\$ 15.00	\$ 180.00	\$ 40.00	\$ 480.00
509.	GRANITE TRANSITION CURB FOR WHEELCHAIR RAMPS - STRAIGHT	FT	30.0	\$ 75.00	\$ 2,250.00	\$ 55.00	\$ 1,650.00	\$ 68.00	\$ 2,040.00	\$ 85.00	\$ 2,550.00	\$ 80.00	\$ 2,400.00
620.14	WEATHERED W BEAM GUARDRAIL WITH WOOD RAIL AND DEEP POSTS (SINGLE FACED)	FT	150.0	\$ 150.00	\$ 22,500.00	\$ 70.00	\$ 10,500.00	\$ 100.00	\$ 15,000.00	\$ 80.00	\$ 12,000.00	\$ 75.00	\$ 11,250.00
628.24	TRANSITION TO BRIDGE RAIL	EA	4.0	\$ 800.00	\$ 3,200.00	\$ 4,000.00	\$ 16,000.00	\$ 5,000.00	\$ 20,000.00	\$ 3,500.00	\$ 14,000.00	\$ 4,500.00	\$ 18,000.00
630.2	HIGHWAY GUARD REMOVED AND DISCARDED	FT	265.0	\$ 20.00	\$ 5,300.00	\$ 3.00	\$ 795.00	\$ 6.60	\$ 1,749.00	\$ 10.00	\$ 2,650.00	\$ 4.00	\$ 1,060.00
697.2	FLOATING SILT FENCE	FT	100.0	\$ 20.00	\$ 2,000.00	\$ 35.00	\$ 3,500.00	\$ 52.00	\$ 5,200.00	\$ 25.00	\$ 2,500.00	\$ 75.00	\$ 7,500.00
748.	MOBILIZATION	LS	1.0	\$ 15,000.00	\$ 15,000.00	\$ 30,000.00	\$ 30,000.00	\$ 42,000.00	\$ 42,000.00	\$ 40,000.00	\$ 40,000.00	\$ 60,000.00	\$ 60,000.00
757.	SITE RESTORATION	LS	1.0	\$ 5,000.00	\$ 5,000.00	\$ 5,200.00	\$ 5,200.00	\$ 10,000.00	\$ 10,000.00	\$ 2,000.00	\$ 2,000.00	\$ 10,000.00	\$ 10,000.00
767.12	COMPOST FILTER TUBES	FT	325.0	\$ 7.50	\$ 2,437.50	\$ 8.00	\$ 2,600.00	\$ 10.00	\$ 3,250.00	\$ 7.00	\$ 2,275.00	\$ 8.00	\$ 2,600.00
769.	PAVEMENT MILLING MULCH UNDER GUARD RAIL	FT	285.0	\$ 5.00	\$ 1,425.00	\$ 10.00	\$ 2,850.00	\$ 12.00	\$ 3,420.00	\$ 13.00	\$ 3,705.00	\$ 20.00	\$ 5,700.00
852.	SAFETY SIGNING FOR TRAFFIC MANAGEMENT	SF	103.0	\$ 22.00	\$ 2,266.00	\$ 25.00	\$ 2,575.00	\$ 20.00	\$ 2,060.00	\$ 30.00	\$ 3,090.00	\$ 30.00	\$ 3,090.00
853.1	PORTABLE BREAKAWAY BARRICADE TYPE III	EA	2.0	\$ 180.00	\$ 360.00	\$ 200.00	\$ 400.00	\$ 220.00	\$ 440.00	\$ 130.00	\$ 260.00	\$ 150.00	\$ 300.00
853.2	TEMPORARY BARRIER (TL-2)	FT	350.0	\$ 25.00	\$ 8,750.00	\$ 35.00	\$ 12,250.00	\$ 10.00	\$ 3,500.00	\$ 45.00	\$ 15,750.00	\$ 40.00	\$ 14,000.00
853.41	TEMPORARY IMPACT ATTENUATOR FOR SHLDR, INCAPABLE OF REDIRECTION	EA	2.0	\$ 900.00	\$ 1,800.00	\$ 4,500.00	\$ 9,000.00	\$ 6,800.00	\$ 13,600.00	\$ 4,000.00	\$ 8,000.00	\$ 6,000.00	\$ 12,000.00
854.036	TEMPORARY PAVING MARKINGS - 6 INCH (TAPE)	FT	1,400.0	\$ 1.50	\$ 2,100.00	\$ 3.00	\$ 4,200.00	\$ 2.30	\$ 3,220.00	\$ 1.00	\$ 1,400.00	\$ 6.00	\$ 8,400.00
854.1	PAVEMENT MARKING REMOVAL	SF	700.0	\$ 1.50	\$ 1,050.00	\$ 3.00	\$ 2,100.00	\$ 2.00	\$ 1,400.00	\$ 1.00	\$ 700.00	\$ 4.00	\$ 2,800.00
856.12	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	310.0	\$ 32.00	\$ 9,920.00	\$ 30.00	\$ 9,300.00	\$ 20.00	\$ 6,200.00	\$ 25.00	\$ 7,750.00	\$ 35.00	\$ 10,850.00
859.	REFLECTORIZED DRUM	DAY	450.0	\$ 3.00	\$ 1,350.00	\$ 1.00	\$ 450.00	\$ 1.00	\$ 450.00	\$ 1.00	\$ 450.00	\$ 0.60	\$ 270.00
868.06	6 INCH REFLECTORIZED WHITE LINE (EPOXY)	FT	300.0	\$ 6.00	\$ 1,800.00	\$ 5.25	\$ 1,575.00	\$ 4.20	\$ 1,260.00	\$ 2.00	\$ 600.00	\$ 2.00	\$ 600.00
869.06	6 INCH REFLECTORIZED YELLOW LINE (EPOXY)	FT	300.0	\$ 6.00	\$ 1,800.00	\$ 5.25	\$ 1,575.00	\$ 4.20	\$ 1,260.00	\$ 2.00	\$ 600.00	\$ 2.00	\$ 600.00
908.	CEMENT FOR POINTING	BAG	22.0	\$ 500.00	\$ 11,000.00	\$ 250.00	\$ 5,500.00	\$ 405.00	\$ 8,910.00	\$ 230.00	\$ 5,060.00	\$ 1,200.00	\$ 26,400.00
918.1	MASONRY CLEANING	SF	1,850.0	\$ 3.00	\$ 5,550.00	\$ 1.00	\$ 1,850.00	\$ 4.20	\$ 7,770.00	\$ 5.00	\$ 9,250.00	\$ 15.00	\$ 27,750.00
964.011	CONCRETE PENETRATING SEALER	GAL	60.0	\$ 20.00	\$ 1,200.00	\$ 65.00	\$ 3,900.00	\$ 400.00	\$ 24,000.00	\$ 100.00	\$ 6,000.00	\$ 200.00	\$ 12,000.00
989.2	REPAIRS TO CONCRETE BRIDGE NO. F-07-002 (244)	LS	1.0	\$ 118,140.00	\$ 118,140.00	\$ 145,000.00	\$ 145,000.00	\$ 105,000.00	\$ 105,000.00	\$ 100,000.00	\$ 100,000.00	\$ 150,000.00	\$ 150,000.00
994.01	TEMPORARY PROTECTIVE SHIELDING BRIDGE NO. F-07-002 (244)	LS	1.0	\$ 20,000.00	\$ 20,000.00	\$ 42,000.00	\$ 42,000.00	\$ 26,000.00	\$ 26,000.00	\$ 20,000.00	\$ 20,000.00	\$ 299,954.00	\$ 299,954.00
995.01	BRIDGE STRUCTURE, BRIDGE NO. F-07-002 (244)	LS	1.0	\$ 239,698.00	\$ 239,698.00	\$ 288,000.00	\$ 288,000.00	\$ 420,000.00	\$ 420,000.00	\$ 455,000.00	\$ 455,000.00	\$ 443,000.00	\$ 443,000.00
999.001	POLICE DETAIL	MH	1.0	\$ 22,000.00	\$ 22,000.00	\$ 22,000.00	\$ 22,000.00	\$ 22,000.00	\$ 22,000.00	\$ 22,000.00	\$ 22,000.00	\$ 22,000.00	\$ 22,000.00
				\$ 750,181.50		\$ 819,960.00		\$ 896,318.00		\$ 971,020.00		\$ 1,287,654.00	