

Project Preliminary Design Estimate

Measure System: E

Date: Tuesday, October 31, 2023

Description: MARION- SHARED USE PATH CONSTRUCTION (PHASE 1), FROM THE MARION-
MATTAPOISETT T.L. TO POINT ROAD

District: 5

Extended Description: Work on this project includes construction of a shared use path in
the Town of Marion from the Mattappisett/Mairon Town line to Point
Road. This section of path is also part of a larger network
immediately connecting Mattapoissett to Wareham, and on a larger
scale a part of the Bay State Greenway priority 100 miles and the
SouthCoast Bikeway.

Project: 607979

Item #	Description	Units	Type	Unit Price	FA - Congestion Mitigation/Air Quality (CMAQ)	Total
100.	SCHEDULE OF OPERATIONS - FIXED PRICE \$	LS		\$58,500.00	1.000	\$58,500.00
101.	CLEARING AND GRUBBING	A		\$24,171.48	5.420	\$131,009.42
102.1	TREE TRIMMING	FT		\$15.500	80.000	\$1,240.00
102.3	HERBICIDE TREATMENT OF INVASIVE PLANTS	HR	*	\$550.000	20.000	\$11,000.00
102.33	INVASIVE PLANT MANAGEMENT STRATEGY	HR	*	\$325.000	2.000	\$650.00
102.511	TREE PROTECTION - ARMORING AND PRUNING	EA	*	\$400.000	48.000	\$19,200.00
120.1	UNCLASSIFIED EXCAVATION	CY		\$50.000	7250.000	\$362,500.00
141.1	TEST PIT FOR EXPLORATION	CY		\$140.000	80.000	\$11,200.00
150.	ORDINARY BORROW	CY		\$60.000		\$0.00
151.	GRAVEL BORROW	CY		\$55.500	7200.000	\$399,600.00
151.2	GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES	CY		\$71.000	6.000	\$426.00
156.	CRUSHED STONE	TON		\$72.000	3000.000	\$216,000.00
170.	FINE GRADING AND COMPACTING - SUBGRADE AREA	SY		\$8.000	27000.000	\$216,000.00

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180.01	ENVIRONMENTAL HEALTH AND SAFETY PROGRAM	LS	*	\$6,500.000	1.000	\$6,500.00
180.02	PERSONAL PROTECTION LEVEL C UPGRADE	HR	*	\$44.000	40.000	\$1,760.00
180.03	LICENSED SITE PROFESSIONAL SERVICES	HR	*	\$150.000	80.000	\$12,000.00
181.11	DISPOSAL OF UNREGULATED SOIL	TON	*	\$62.000	250.000	\$15,500.00
181.12	DISPOSAL OF REGULATED SOIL - IN-STATE FACILITY	TON	*	\$129.000	250.000	\$32,250.00
181.13	DISPOSAL OF REGULATED SOIL - OUT-OF-STATE FACILITY	TON	*	\$200.000	130.000	\$26,000.00
181.14	DISPOSAL OF HAZARDOUS WASTE	TON	*	\$635.750	130.000	\$82,647.50
184.1	DISPOSAL OF TREATED WOOD PRODUCTS	TON	*	\$538.750	6.000	\$3,232.50
201.	CATCH BASIN	EA		\$5,300.000	4.000	\$21,200.00
201.01	PROPOSED EQUALIZING STRUCTURE	EA	*	\$5,600.000	2.000	\$11,200.00
220.	DRAINAGE STRUCTURE ADJUSTED	EA		\$600.000	3.000	\$1,800.00
220.3	DRAINAGE STRUCTURE CHANGE IN TYPE	EA		\$1,500.000	2.000	\$3,000.00
220.7	SANITARY STRUCTURE ADJUSTED	EA		\$565.000	1.000	\$565.00
221.	FRAME AND COVER	EA		\$1,184.770	2.000	\$2,369.54
222.3	FRAME AND GRATE (OR COVER) MUNICIPAL STANDARD	EA	*	\$1,155.000	5.000	\$5,775.00
223.2	FRAME AND GRATE (OR COVER) REMOVED AND DISCARDED	EA		\$200.000	4.000	\$800.00

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227.3	REMOVAL OF DRAINAGE STRUCTURE SEDIMENT	CY		\$370.000	5.000	\$1,850.00
227.31	REMOVAL OF DRAINAGE PIPE SEDIMENT	FT		\$12.000	25.000	\$300.00
244.12	12 INCH REINFORCED CONCRETE PIPE CLASS V	FT		\$184.000	40.000	\$7,360.00
252.12	12 INCH CORRUGATED PLASTIC PIPE	FT		\$125.000	80.000	\$10,000.00
303.06	6 INCH DUCTILE IRON WATER PIPE (MECHANICAL JOINT)	FT		\$245.000	70.000	\$17,150.00
309.	DUCTILE IRON FITTINGS FOR WATER PIPE	LB		\$11.000	260.000	\$2,860.00
357.06	6 INCH GATE BOX	EA		\$735.000	4.000	\$2,940.00
357.12	12 INCH GATE BOX	EA		\$642.500	4.000	\$2,570.00
358.	GATE BOX ADJUSTED	EA		\$312.000	13.000	\$4,056.00
369.06	6 X 6 INCH TAPPING SLEEVE, VALVE AND BOX	EA	*	\$18,000.000	2.000	\$36,000.00
370.4	12 X 6 INCH TAPPING SLEEVE, VALVE AND BOX	EA	*	\$22,000.000	2.000	\$44,000.00
371.06	6 INCH COUPLING	EA	*	\$1,045.000	3.000	\$3,135.00
376.2	HYDRANT - REMOVED AND RESET	EA		\$4,019.000	4.000	\$16,076.00
376.5	HYDRANT - ADJUSTED	EA	*	\$1,950.000	3.000	\$5,850.00
402.	DENSE GRADED CRUSHED STONE FOR SUB-BASE	CY		\$90.000	20.000	\$1,800.00
415.1	PAVEMENT STANDARD MILLING	SY		\$10.250	2000.000	\$20,500.00

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440.	CALCIUM CHLORIDE FOR ROADWAY DUST CONTROL	LB		\$0.370	37300.000	\$13,801.00
443.	WATER FOR ROADWAY DUST CONTROL	MGL		\$75.000	30.000	\$2,250.00
450.22	SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5)	TON		\$151.500	2200.000	\$333,300.00
450.23	SUPERPAVE SURFACE COURSE - 12.5 (SSC - 12.5)	TON		\$428.000	150.000	\$64,200.00
450.31	SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC -12.5)	TON		\$140.000	20.000	\$2,800.00
450.32	SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC - 19.0)	TON		\$145.000	3500.000	\$507,500.00
450.41	SUPERPAVE BASE COURSE - 25.0 (SBC - 25.0)	TON		\$158.000	30.000	\$4,740.00
451.	HMA FOR PATCHING	TON		\$333.000	150.000	\$49,950.00
452.	ASPHALT EMULSION FOR TACK COAT	GAL		\$8.900	2200.000	\$19,580.00
453.	HMA JOINT ADHESIVE	FT		\$1.200	900.000	\$1,080.00
470.	HOT MIX ASPHALT BERM	TON		\$470.000	10.000	\$4,700.00
470.2	HMA ASPHALT BERM, TYPE A-MODIFIED	FT	*	\$14.500	120.000	\$1,740.00
472.	TEMPORARY ASPHALT PATCHING	TON		\$325.000	20.000	\$6,500.00
506.	GRANITE CURB TYPE VB - STRAIGHT	FT		\$70.000	340.000	\$23,800.00
506.1	GRANITE CURB TYPE VB - CURVED	FT		\$100.000	110.000	\$11,000.00

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Item #	Description	Units	Type	Unit Price	FA - Congestion Mitigation/Air Quality (CMAQ)	Total
509.	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - STRAIGHT	FT		\$79.000	40.000	\$3,160.00
509.1	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - CURVED	FT		\$94.000	10.000	\$940.00
515.	GRANITE CURB INLET - CURVED	EA		\$866.000	1.000	\$866.00
580.	CURB REMOVED AND RESET	FT		\$51.000	110.000	\$5,610.00
594.	CURB REMOVED AND DISCARDED	FT		\$10.000	230.000	\$2,300.00
620.5	BICYCLE SAFETY FENCE	FT	*	\$25.000	8800.000	\$220,000.00
645.2	180 INCH CHAIN LINK FENCE - VINYL COATED (BASEBALL BARRIER FENCE)	FT	*	\$60.000	570.000	\$34,200.00
657.	TEMPORARY FENCE	FT	*	\$36.500	310.000	\$11,315.00
697.	SEDIMENTATION FENCE	FT		\$9.500	41400.000	\$393,300.00
697.1	SILT SACK	EA	*	\$222.500	4.000	\$890.00
698.2	GEOTEXTILE FABRIC FOR SUBSURFACE DRAINAGE	SY	*	\$5.000	8600.000	\$43,000.00
701.1	CEMENT CONCRETE SIDEWALK AT DRIVEWAYS	SY		\$145.000	60.000	\$8,700.00
701.2	CEMENT CONCRETE PEDESTRIAN CURB RAMP	SY		\$140.000	60.000	\$8,400.00
702.	HOT MIX ASPHALT SIDEWALK OR DRIVEWAY	TON		\$288.500	80.000	\$23,080.00
707.1	PARK BENCH	EA	*	\$4,268.150	28.000	\$119,508.20
715.	RURAL MAIL BOX REMOVED AND RESET	EA		\$285.000	1.000	\$285.00

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Item #	Description	Units	Type	Unit Price	FA - Congestion Mitigation/Air Quality (CMAQ)	Total
740.	ENGINEER'S FIELD OFFICE AND EQUIPMENT (TYPE A)	MO	*	\$3,255.000	18.000	\$58,590.00
748.	MOBILIZATION	LS		\$146,612.4 90	1.000	\$146,612.49
751.	LOAM FOR ROADSIDES	CY		\$86.000	3500.000	\$301,000.00
754.23	EASTERN BOX TURTLE (TERRAPIN CAROLINA) PROTECTION PLAN)	LS	*	\$20,000.00 0	1.000	\$20,000.00
755.35	INLAND WETLAND REPLICATION AREA	LS	*	\$109,741.0 00	1.000	\$109,741.00
755.75	WETLAND SPECIALIST	HR	*	\$147.500	80.000	\$11,800.00
755.76	WETLANDS MONITORING REPORTS	LS	*	\$10,000.00 0	1.000	\$10,000.00
765.	SEEDING	SY		\$2.500	24900.000	\$62,250.00
767.121	SEDIMENT CONTROL BARRIER	FT	*	\$5.750	41400.000	\$238,050.00
796.455	SWITCH GRASS 2 GALLON	EA	*	\$30.000	21.000	\$630.00
804.3	3 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC - (UL)	FT		\$85.000	70.000	\$5,950.00
811.31	PULL BOX 12 X 12 INCHES - SD2.031	EA		\$1,750.000	2.000	\$3,500.00
824.211	RECTANGULAR RAPID FLASHING BEACON	LS	*	\$3,500.000	1.000	\$3,500.00
832.	WARNING- REGULATORY AND ROUTE MARKER - ALUMINUM PANEL (TYPE A)	SF		\$15.000	127.000	\$1,905.00
847.1	SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL	EA		\$230.000	45.000	\$10,350.00
850.41	ROADWAY FLAGGER	HR		\$69.000	355.000	\$24,495.00

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Item #	Description	Units	Type	Unit Price	FA - Congestion Mitigation/Air Quality (CMAQ)	Total
853.1	PORTABLE BREAKAWAY BARRICADE TYPE III	EA		\$156.000	5.000	\$780.00
853.22	PEDESTRIAN CHANNELIZING DEVICE	EA	*	\$60.000	50.000	\$3,000.00
859.	REFLECTORIZED DRUM	DAY		\$0.250	1410.000	\$352.50
859.1	REFLECTORIZED DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS	DAY	*	\$5.000	1410.000	\$7,050.00
864.04	PAVEMENT ARROWS AND LEGENDS REFLECTORIZED WHITE (THERMOPLASTIC)	SF		\$9.250	150.000	\$1,387.50
866.106	6 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	FT		\$1.650	640.000	\$1,056.00
866.112	12 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	FT		\$5.900	290.000	\$1,711.00
867.106	6 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)	FT		\$1.540	6200.000	\$9,548.00
874.	STREET NAME SIGN	EA		\$150.000	9.000	\$1,350.00
874.4	TRAFFIC SIGN REMOVED AND STACKED	EA	*	\$40.000	4.000	\$160.00
903.	3000 PSI, 1.5 INCH, 470 CEMENT CONCRETE	CY		\$600.000	2.100	\$1,260.00
983.1	RIPRAP	TON		\$120.000	10.000	\$1,200.00
986.	MODIFIED ROCKFILL	TON		\$120.000	2030.000	\$243,600.00
Total Amount					\$5,033,695.65	\$5,033,695.65