

Vermont Agency of Transportation

SWANTON NH 036-1(9)

Estimate PRELIMINARY - Engineer's Estimate

Phase: PRELIMINARY	Designed By:
Estimate Date: 09 November, 2023	Reviewed By: Cynthia Cilley
Specification: Standard Specifications for Construction	Approved By:
Region: NORTHWEST	Work Type: ROADS & HIGHWAY CONSTRUCTION
Town: SWANTON	Highway Type: MINOR ARTERIAL
Advertising Season: CONSTRUCTION SEASON	Urban/Rural: RURAL
Description: WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANNING, FULL DEPTH RECONSTRUCTION, CORRECTING SUPERELEVATION DEFICIENCIES, RESURFACING WITH BASE, INTERMEDIATE AND WEARING COURSES, NEW PAVEMENT MARKINGS, SIGNAGE, GUARDRAIL IMPROVEMENTS, RETAINING WALLS, DRAINAGE IMPROVEMENTS, LARGE CULVERT REPLACEMENT AND OTHER HIGHWAY RELATED ITEMS.	

Category	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
1011 - ROADWAY						
201.10	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS		1.00	LS	\$300,000.000	\$300,000.00
203.15	COMMON EXCAVATION		130,440.00	CY	\$9.265	\$1,208,526.60
203.16	SOLID ROCK EXCAVATION		1,310.00	CY	\$83.217	\$109,014.27
203.20	MUCK EXCAVATION		17,940.00	CY	\$13.000	\$233,220.00
203.30	EARTH BORROW		46,400.00	CY	\$4.313	\$200,123.20
203.31	SAND BORROW		19,860.00	CY	\$22.435	\$445,559.10
203.32	GRANULAR BORROW		11,710.00	CY	\$26.788	\$313,687.48
204.20	TRENCH EXCAVATION OF EARTH		5,460.00	CY	\$19.617	\$107,108.82
204.21	TRENCH EXCAVATION OF ROCK		60.00	CY	\$201.236	\$12,074.16
204.25	STRUCTURE EXCAVATION		270.00	CY	\$27.318	\$7,375.86
204.30	GRANULAR BACKFILL FOR STRUCTURES		2,980.00	CY	\$46.664	\$139,058.72
210.10	COARSE-MILLING, BITUMINOUS PAVEMENT		1,200.00	SY	\$12.071	\$14,485.20
301.26	SUBBASE OF CRUSHED GRAVEL, FINE GRADED		34,800.00	CY	\$41.412	\$1,441,137.60
301.35	SUBBASE OF DENSE GRADED CRUSHED STONE		42,960.00	CY	\$32.916	\$1,414,071.36
401.10	AGGREGATE SURFACE COURSE		300.00	CY	\$48.002	\$14,400.60
402.12	AGGREGATE SHOULDERS		10,150.00	TON	\$21.159	\$214,763.85
404.65	EMULSIFIED ASPHALT		4,806.00	CWT	\$12.838	\$61,699.43
406.35	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT		62,456.00	TON	\$88.314	\$5,515,739.18
406.38	HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES		2,706.00	SY	\$19.577	\$52,975.36
601.0805	12" RCP CLASS III		40.00	LF	\$150.000	\$6,000.00
601.0810	15" RCP CLASS III		55.00	LF	\$175.000	\$9,625.00

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601.0815	18" RCP CLASS III	55.00	LF	\$190.647	\$10,485.59
601.2605	12" CPEP(SL)	45.00	LF	\$77.413	\$3,483.59
601.2610	15" CPEP(SL)	30.00	LF	\$94.733	\$2,841.99
601.2615	18" CPEP(SL)	150.00	LF	\$87.261	\$13,089.15
601.2620	24" CPEP(SL)	2,155.00	LF	\$73.074	\$157,474.47
601.2625	30" CPEP(SL)	340.00	LF	\$105.548	\$35,886.32
601.2630	36" CPEP(SL)	195.00	LF	\$136.959	\$26,707.01
601.6815	18" RCPES CLASS III	2.00	EACH	\$650.000	\$1,300.00
601.7010	15" CPEPES	2.00	EACH	\$485.000	\$970.00
601.7015	18" CPEPES	4.00	EACH	\$608.782	\$2,435.13
601.7020	24" CPEPES	42.00	EACH	\$635.000	\$26,670.00
601.7025	30" CPEPES	12.00	EACH	\$710.000	\$8,520.00
604.18	PRECAST REINFORCED CONCRETE DROP INLET WITH CAST IRON GRATE	25.00	EACH	\$4,483.851	\$112,096.28
604.40	CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES	5.00	EACH	\$1,039.831	\$5,199.16
604.412	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	1.00	EACH	\$1,646.755	\$1,646.76
604.42	CHANGING ELEVATION OF SEWER MANHOLES	5.00	EACH	\$1,014.879	\$5,074.40
605.10	UNDERDRAIN PIPE, 6 INCHES	6,115.00	LF	\$27.665	\$169,171.48
605.11	UNDERDRAIN PIPE, 8 INCHES	780.00	LF	\$30.000	\$23,400.00
605.95	UNDERDRAIN FLUSHING BASIN	25.00	EACH	\$466.750	\$11,668.75
609.10	DUST CONTROL WITH WATER	8,075.00	MGAL	\$2.311	\$18,661.33
616.28	CAST-IN-PLACE CONCRETE CURB, TYPE B	100.00	LF	\$63.200	\$6,320.00
621.30	BOX BEAM GUARDRAIL	21,150.00	LF	\$65.090	\$1,376,653.50
621.50	MANUFACTURED TERMINAL SECTION, FLARED	25.00	EACH	\$2,708.929	\$67,723.23
621.80	REMOVAL AND DISPOSAL OF GUARDRAIL	4,035.00	LF	\$1.244	\$5,019.54
635.11	MOBILIZATION/DEMOBILIZATION	1.00	LS	\$1,971,106.761	\$1,971,106.76
641.11	TRAFFIC CONTROL, ALL-INCLUSIVE	1.00	LS	\$1,500,000.000	\$1,500,000.00
646.403	DURABLE 4 INCH WHITE LINE, EPOXY PAINT	60,200.00	LF	\$0.908	\$54,661.60
646.413	DURABLE 4 INCH YELLOW LINE, EPOXY PAINT	52,880.00	LF	\$0.927	\$49,019.76
646.483	DURABLE 24 INCH STOP BAR, EPOXY PAINT	150.00	LF	\$13.659	\$2,048.85
646.493	DURABLE LETTER OR SYMBOL, EPOXY PAINT	30.00	EACH	\$135.309	\$4,059.27
646.600	TEMPORARY 4 INCH WHITE LINE	60,200.00	LF	\$0.279	\$16,795.80
646.610	TEMPORARY 4 INCH YELLOW LINE	52,880.00	LF	\$0.217	\$11,474.96
646.680	TEMPORARY 24 INCH STOP BAR	150.00	LF	\$5.038	\$755.70
646.690	TEMPORARY LETTER OR SYMBOL	24.00	EACH	\$49.807	\$1,195.37
646.76	LINE STRIPING TARGETS	25,315.00	EACH	\$0.426	\$10,784.19
656.35	DECIDUOUS SHRUBS	320.00	EACH	\$45.690	\$14,620.80
675.20	TRAFFIC SIGN, TYPE A	60.00	SF	\$26.863	\$1,611.78

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675.341	SQUARE TUBE SIGN POST AND ANCHOR		1,790.00	LF	\$16.116	\$28,847.64
675.50	REMOVING SIGNS		130.00	EACH	\$15.366	\$1,997.58
675.60	RESETTING SIGNS		130.00	EACH	\$23.052	\$2,996.76
676.10	DELINEATOR WITH STEEL POST		240.00	EACH	\$88.338	\$21,201.12
900.608	SPECIAL PROVISION	(GABION RETAINING WALL)	1,245.00	CY	\$75.000	\$93,375.00
900.670	SPECIAL PROVISION	(PERMANENT SHEET PILING)(COOPER E-80 LIVELOAD)	4,590.00	SF	\$100.000	\$459,000.00
900.675	SPECIAL PROVISION	(GEO-GRID FOR SUBBASE REHABILITATION)	97,300.00	SY	\$7.500	\$729,750.00
					Category total:	\$18,888,446.36

Category		Description				
1031 - TRAINING		1031				
Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
634.10	EMPLOYEE TRAINEESHIP		800.00	HR	\$18.732	\$14,985.60
					Category total:	\$14,985.60

Category		Description				
1051 - EROSION CONTROL		1051				
Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
613.10	STONE FILL, TYPE I		9,610.00	CY	\$50.786	\$488,053.46
613.11	STONE FILL, TYPE II		6,540.00	CY	\$56.960	\$372,518.40
613.13	STONE FILL, TYPE IV		520.00	CY	\$61.593	\$32,028.36
649.11	GEOTEXTILE FOR ROADBED SEPARATOR		47,590.00	SY	\$1.381	\$65,721.79
649.31	GEOTEXTILE UNDER STONE FILL		24,935.00	SY	\$1.262	\$31,467.97
649.41	GEOTEXTILE FOR UNDERDRAIN TRENCH LINING		6,890.00	SY	\$1.100	\$7,579.00
649.61	GEOTEXTILE FOR FILTER CURTAIN		370.00	SY	\$27.671	\$10,238.27
651.35	TOPSOIL		3,060.00	CY	\$38.860	\$118,911.60
651.40	GRUBBING MATERIAL		25,690.00	SY	\$4.409	\$113,267.21
653.01	EPSC PLAN		1.00	LS	\$5,000.000	\$5,000.00
653.02	MONITORING EPSC PLAN		440.00	HR	\$80.000	\$35,200.00
653.20	ROLLED EROSION CONTROL PRODUCT, TYPE I		55,650.00	SY	\$1.854	\$103,175.10
653.35	STABILIZED CONSTRUCTION ENTRANCE		450.00	CY	\$35.942	\$16,173.90
653.40	INLET PROTECTION DEVICE, TYPE I		30.00	EACH	\$160.973	\$4,829.19
653.45	FILTER BAG		10.00	EACH	\$487.994	\$4,879.94
653.475	SILT FENCE, TYPE I		23,560.00	LF	\$2.896	\$68,229.76
653.476	SILT FENCE, TYPE II		2,200.00	LF	\$5.912	\$13,006.40

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653.50	BARRIER FENCE	24,400.00	LF	\$1.860	\$45,384.00
653.55	PROJECT DEMARCATION FENCE	17,680.00	LF	\$1.214	\$21,463.52
653.60	EROSION LOG	24,930.00	LF	\$3.048	\$75,986.64

Category total: \$1,633,114.51

Category		Description				
1211 - BRIDGE NO. 1		1211				
Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
203.30	EARTH BORROW		80.00	CY	\$4.313	\$345.04
204.20	TRENCH EXCAVATION OF EARTH		1,200.00	CY	\$19.617	\$23,540.40
204.25	STRUCTURE EXCAVATION		2,150.00	CY	\$27.318	\$58,733.70
204.30	GRANULAR BACKFILL FOR STRUCTURES		2,500.00	CY	\$46.664	\$116,660.00
529.15	REMOVAL OF STRUCTURE	(8'X13.5'X45' CMP)	1.00	EACH	\$50,868.396	\$50,868.40
540.10	PRECAST CONCRETE STRUCTURE	((14 FT X 10 FT X 46 FT BOX CULVERT)	1.00	LS	\$110,000.000	\$110,000.00
540.10	PRECAST CONCRETE STRUCTURE	(4 FT X 4 FT X 56 FT BOX CULVERT)	1.00	LS	\$30,000.000	\$30,000.00
540.10	PRECAST CONCRETE STRUCTURE	(4 FT X 4 FT X 56 FT BOX CULVERT)	1.00	LS	\$30,000.000	\$30,000.00
540.10	PRECAST CONCRETE STRUCTURE	(4 FT X 4 FT X 58 FT BOX CULVERT)	1.00	LS	\$31,000.000	\$31,000.00
540.10	PRECAST CONCRETE STRUCTURE	(4 FT X 4 FT X 58 FT BOX CULVERT)	1.00	LS	\$31,000.000	\$31,000.00
540.10	PRECAST CONCRETE STRUCTURE	(4 FT X 4 FT X 60 FT BOX CULVERT)	1.00	LS	\$32,000.000	\$32,000.00
540.10	PRECAST CONCRETE STRUCTURE	(4 FT X 4 FT X 62 FT BOX CULVERT)	1.00	LS	\$33,000.000	\$33,000.00
540.10	PRECAST CONCRETE STRUCTURE	(4 FT X 4 FT X 64 FT BOX CULVERT)	1.00	LS	\$34,000.000	\$34,000.00
540.10	PRECAST CONCRETE STRUCTURE	(4 FT X 4 FT X 64 FT BOX CULVERT)	1.00	LS	\$34,000.000	\$34,000.00
629.54	CRUSHED STONE BEDDING		280.00	TON	\$44.617	\$12,492.76
649.11	GEOTEXTILE FOR ROADBED SEPARATOR		350.00	SY	\$1.381	\$483.35
900.608	SPECIAL PROVISION	(STONE FILL, STREAM BED MATERIAL)	75.00	CY	\$60.000	\$4,500.00
900.670	SPECIAL PROVISION	(CONCRETE RETAINING WALL)	2,000.00	SF	\$200.000	\$400,000.00
900.670	SPECIAL PROVISION	(TEMPORARY SHEET PILING)	4,150.00	SF	\$33.000	\$136,950.00
900.675	SPECIAL PROVISION	(PRECAST CONCRETE WINGWALL)	70.00	SY	\$1,300.000	\$91,000.00
					Category total:	\$1,260,573.65

Category		Description				
1999 - FULL C.E. ITEMS		1999				
Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
631.10	FIELD OFFICE, ENGINEERS		1.00	LS	\$54,000.000	\$54,000.00

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631.16	TESTING EQUIPMENT, CONCRETE	1.00	LS	\$5,000.000	\$5,000.00
631.17	TESTING EQUIPMENT, BITUMINOUS	1.00	LS	\$5,000.000	\$5,000.00

Category total: \$64,000.00

Grand Total: \$21,861,120.12