

Vermont Agency of Transportation

South Burlington RAIZ(1)

Estimate CONTRACT - Engineer's Estimate

Phase: CONTRACT

Estimate Date: 01 May, 2025

Specification: Standard Specifications for Construction

Region: NORTHWEST

Town:

Advertising Season: CONSTRUCTION SEASON

Designed By:

Reviewed By:

Approved By:

Work Type: BRIDGE CONSTRUCTION

Highway Type: INTERSTATE, FREEWAY, EXPRESSWAY
(URBAN)

Urban/Rural: URBAN

Description: WORK TO BE PERFORMED INCLUDES CONSTRUCTION OF A NEW MULTI-USE PATH AND A PEDESTRIAN BRIDGE. PROJECT WILL INCLUDE PAUSE PLACES WITH BENCHES, MSE WALLS, RAILING, LIGHTING, AND STORMWATER INFRASTRUCTURE.

Category

1011 - ROADWAY

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
201.1000	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS		1.00	LS	\$40,000.000	\$40,000.00
203.1500	COMMON EXCAVATION		3,100.00	CY	\$22.331	\$69,226.10
203.1600	SOLID ROCK EXCAVATION		50.00	CY	\$250.000	\$12,500.00
203.2800	EXCAVATION OF SURFACES AND PAVEMENTS		5.00	CY	\$37.000	\$185.00
203.3000	EARTH BORROW		500.00	CY	\$14.793	\$7,396.50
203.3100	SAND BORROW		390.00	CY	\$45.443	\$17,722.77
204.2000	TRENCH EXCAVATION OF EARTH		1,800.00	CY	\$50.000	\$90,000.00
204.2200	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)		1.00	CY	\$75.000	\$75.00
204.2500	STRUCTURE EXCAVATION		3,100.00	CY	\$31.158	\$96,589.80
204.3000	GRANULAR BACKFILL FOR STRUCTURES		1,400.00	CY	\$60.481	\$84,673.40
227.0100	RETAINING WALL, MECHANICALLY STABILIZED EARTH		1.00	LS	\$1,000,000.000	\$1,000,000.00
301.3500	SUBBASE OF DENSE GRADED CRUSHED STONE		1,800.00	CY	\$57.508	\$103,514.40
401.1500	AGGREGATE SURFACE COURSE, PATHS AND TRAILS		50.00	CY	\$71.000	\$3,550.00
404.1100	TACK COAT, EMULSIFIED ASPHALT		14.00	CWT	\$79.890	\$1,118.46
406.0230	BITUMINOUS CONCRETE PAVEMENT, TYPE IIS, QA TIER III		5.00	TON	\$330.279	\$1,651.40
406.0430	BITUMINOUS CONCRETE PAVEMENT, TYPE IVS, QA TIER III		790.00	TON	\$180.414	\$142,527.06
406.9100	PAY ADJUSTMENT, BCP, MIXTURE PROPERTIES (N.A.B.I.)		1.00	DL	\$1.000	\$1.00
406.9200	PAY ADJUSTMENT, BCP, MAT DENSITY (N.A.B.I.)		1.00	DL	\$1.000	\$1.00
507.1100	REINFORCING STEEL, LEVEL I		240.00	LB	\$2.429	\$582.96
522.3000	NONSTRUCTURAL LUMBER, UNTREATED		0.30	MFBM	\$8,000.000	\$2,400.00
541.2200	CONCRETE, CLASS B		10.00	CY	\$1,394.580	\$13,945.80

Vermont Agency of Transportation

South Burlington RAIZ(1)

Estimate CONTRACT - Engineer's Estimate

601.2605	12 INCH CPEP(SL)	1,130.00	LF	\$65.000	\$73,450.00
601.2610	15 INCH CPEP(SL)	10.00	LF	\$70.000	\$700.00
601.2615	18 INCH CPEP(SL)	280.00	LF	\$80.000	\$22,400.00
601.2620	24 INCH CPEP(SL)	120.00	LF	\$100.000	\$12,000.00
601.2630	36 INCH CPEP(SL)	700.00	LF	\$120.000	\$84,000.00
601.7005	12 INCH CPEPES	4.00	EACH	\$800.000	\$3,200.00
601.7020	24 INCH CPEPES	1.00	EACH	\$900.000	\$900.00
601.7030	36 INCH CPEPES	1.00	EACH	\$1,000.000	\$1,000.00
604.1800	PRECAST REINFORCED CONCRETE DI WITH (4 FOOT DIA.) CAST IRON GRATE	1.00	EACH	\$5,500.000	\$5,500.00
604.1800	PRECAST REINFORCED CONCRETE DI WITH (5 FOOT DIA.) CAST IRON GRATE	2.00	EACH	\$8,000.000	\$16,000.00
604.1800	PRECAST REINFORCED CONCRETE DI WITH (8 FOOT DIA.) CAST IRON GRATE	1.00	EACH	\$10,000.000	\$10,000.00
604.2000	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE	10.00	EACH	\$6,550.852	\$65,508.52
604.2000	PRECAST REINFORCED CONCRETE CATCH (24 INCH SQUARE CATCH BASIN WITH CAST IRON GRATE BASIN)	3.00	EACH	\$7,010.779	\$21,032.34
604.2100	PRECAST REINFORCED CONCRETE (4 FOOT DIA.) MANHOLE WITH CAST IRON COVER	1.00	EACH	\$6,750.000	\$6,750.00
604.2100	PRECAST REINFORCED CONCRETE (5 FOOT DIA.) MANHOLE WITH CAST IRON COVER	4.00	EACH	\$8,000.000	\$32,000.00
605.9500	UNDERDRAIN FLUSHING BASIN	3.00	EACH	\$500.000	\$1,500.00
609.1000	DUST CONTROL WITH WATER	240.00	MGAL	\$50.000	\$12,000.00
613.1001	STONE FILL, TYPE I	80.00	CY	\$93.010	\$7,440.80
616.2100	VERTICAL GRANITE CURB	40.00	LF	\$150.000	\$6,000.00
616.2702	CAST-IN-PLACE CONCRETE CURB, TYPE B	80.00	LF	\$105.040	\$8,403.20
618.1005	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	90.00	SY	\$186.669	\$16,800.21
618.3000	DETECTABLE WARNING SURFACE	106.00	SF	\$53.650	\$5,686.90
619.1700	YIELDING MARKER POSTS	20.00	EACH	\$85.304	\$1,706.08
620.1006	CHAIN-LINK FENCE, 6 FOOT	1,070.00	LF	\$48.500	\$51,895.00
620.2006	BRACING ASSEMBLY FOR CHAIN-LINK FENCE, 6 FOOT	16.00	EACH	\$800.000	\$12,800.00
620.4500	PLANK RAIL FENCE	340.00	LF	\$60.000	\$20,400.00
620.5500	REMOVAL OF EXISTING FENCE	2,020.00	LF	\$2.929	\$5,916.58
620.9000	HAND RAILING	270.00	LF	\$50.000	\$13,500.00
621.1260	HD STEEL BEAM GUARDRAIL	2,410.00	LF	\$40.000	\$96,400.00
621.1530	ANCHOR FOR STEEL BEAM GUARDRAIL, MGS	2.00	EACH	\$1,424.282	\$2,848.56
621.2500	TEMPORARY TRAFFIC PROTECTION	1,600.00	LF	\$42.000	\$67,200.00
621.3030	MTS, MGS, TANGENT, TL-3	1.00	EACH	\$3,170.401	\$3,170.40
621.3130	MTS, MGS, FLARED, TL-3	1.00	EACH	\$3,345.887	\$3,345.89
630.1000	UNIFORMED TRAFFIC OFFICERS	1,500.00	HR	\$100.000	\$150,000.00
630.1500	FLAGGERS	1,000.00	HR	\$48.203	\$48,203.00
633.1000	CPM SCHEDULE	24.00	EACH	\$643.249	\$15,437.98

Vermont Agency of Transportation

South Burlington RAIZ(1)

Estimate CONTRACT - Engineer's Estimate

635.1100	MOBILIZATION/DEMOBILIZATION		1.00	LS	\$1,206,076.981	\$1,206,076.98
641.1100	TRAFFIC CONTROL, ALL-INCLUSIVE		1.00	LS	\$750,000.000	\$750,000.00
641.1200	MAINTENANCE OF PEDESTRIAN TRAFFIC		1.00	LS	\$20,000.000	\$20,000.00
641.1500	PORTABLE CHANGEABLE MESSAGE SIGN		4.00	EACH	\$4,673.128	\$18,692.51
646.4090	DURABLE 4 INCH WHITE LINE, RECESSED EPOXY PAINT		1,650.00	LF	\$1.300	\$2,145.00
646.4620	DURABLE 12 INCH WHITE LINE, THERMOPLASTIC		131.00	LF	\$13.000	\$1,703.00
646.4990	DURABLE LETTER OR SYMBOL, RECESSED EPOXY PAINT		90.00	EACH	\$175.000	\$15,750.00
649.1100	GEOTEXTILE FOR ROADBED SEPARATOR		6,000.00	SY	\$2.135	\$12,810.00
649.3100	GEOTEXTILE UNDER STONE FILL		190.00	SY	\$5.267	\$1,000.73
654.0015	DRY SWALE WITH UNDERDRAIN		220.00	LF	\$100.000	\$22,000.00
675.2000	TRAFFIC SIGN, FLAT SHEET ALUMINUM		39.50	SF	\$35.134	\$1,387.79
675.3410	SQUARE TUBE SIGN POST AND ANCHOR		210.00	LF	\$22.465	\$4,717.65
675.5000	SIGN REMOVAL, FLAT SHEET ALUMINUM		4.00	EACH	\$35.369	\$141.48
675.6000	RESETTING SIGNS		2.00	EACH	\$76.068	\$152.14
690.0300	PRICE ADJUSTMENT, ASPHALT (N.A.B.I.)		1.00	DL	\$1.000	\$1.00
SS007	SS-PLACEHOLDER-EA	(LANDSCAPE BENCH)	5.00	EACH	\$1,000.000	\$5,000.00
SS012	SS-PLACEHOLDER-LF	(PEDESTRIAN BARRIER ON BRIDGE)	2,930.00	LF	\$350.000	\$1,025,500.00
SS013	SS-PLACEHOLDER-LS	(RETAINING WALL, MECHANICALLY STABILIZED EARTH, FGA)	1.00	LS	\$3,500,000.000	\$3,500,000.00
SS017	SS-PLACEHOLDER-SF	(BRICK PAVERS)	860.00	SF	\$27.000	\$23,220.00
SS017	SS-PLACEHOLDER-SF	(MUNICIPAL GUIDANCE SIGN)	18.20	SF	\$80.000	\$1,456.00
SS017	SS-PLACEHOLDER-SF	(MUNICIPAL KIOSK SIGN)	9.00	SF	\$80.000	\$720.00
Category total:						\$9,205,230.38

Category

1031 - TRAINING

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
634.1000	EMPLOYEE TRAINEESHIP		1,040.00	HR	\$19.073	\$19,835.92
Category total:						\$19,835.92

Category

1041 - LANDSCAPING

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
656.2003	EVERGREEN TREES, LARGE		22.00	EACH	\$700.000	\$15,400.00
656.3003	DECIDUOUS TREES, LARGE		84.00	EACH	\$700.000	\$58,800.00
656.3500	DECIDUOUS SHRUBS		972.00	EACH	\$95.304	\$92,635.49

Vermont Agency of Transportation

South Burlington RAIZ(1)

Estimate CONTRACT - Engineer's Estimate

656.4000	GROUND COVERS AND VINES	251.00	EACH	\$65.000	\$16,315.00
656.4100	PERENNIALS	448.00	EACH	\$85.000	\$38,080.00
656.6500	LANDSCAPE WATERING	50.00	MGAL	\$67.686	\$3,384.30
656.8000	LANDSCAPE BACKFILL, TRUCK MEASUREMENT	1,600.00	CY	\$68.123	\$108,996.80
				Category total:	\$333,611.59

Category

1051 - EROSION CONTROL

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
651.1500	TURF ESTABLISHMENT, GENERAL SEED		2,670.00	SY	\$2.000	\$5,340.00
651.1600	TURF ESTABLISHMENT, SPECIALTY SEED		11,500.00	SY	\$2.500	\$28,750.00
651.3500	TOPSOIL		1,900.00	CY	\$50.933	\$96,772.70
653.0100	EPSC PLAN		1.00	LS	\$5,000.000	\$5,000.00
653.0200	MONITORING EPSC PLAN		200.00	HR	\$44.438	\$8,887.60
653.0300	MAINTENANCE OF EPSC PLAN (N.A.B.I.)		5,000.00	DL	\$1.000	\$5,000.00
653.2001	ROLLED EROSION CONTROL PRODUCT, TYPE I		2,200.00	SY	\$3.258	\$7,167.60
653.2501	CHECK DAM, TYPE I		10.00	CY	\$119.364	\$1,193.64
653.3500	STABILIZED CONSTRUCTION ENTRANCE		150.00	CY	\$60.502	\$9,075.30
653.4001	INLET PROTECTION DEVICE, TYPE I		8.00	EACH	\$208.371	\$1,666.97
653.4002	INLET PROTECTION DEVICE, TYPE II		4.00	EACH	\$250.000	\$1,000.00
653.4003	INLET PROTECTION DEVICE, TYPE III		10.00	CY	\$110.000	\$1,100.00
653.4701	SILT FENCE, TYPE I		720.00	LF	\$4.733	\$3,407.76
653.4702	SILT FENCE, TYPE II		150.00	LF	\$7.118	\$1,067.70
653.5000	BARRIER FENCE		850.00	LF	\$3.275	\$2,783.75
653.5500	PROJECT DEMARCATION FENCE		2,480.00	LF	\$1.925	\$4,774.00
656.8500	TREE PROTECTION		1.00	LS	\$5,000.000	\$5,000.00
				Category total:		\$187,987.02

Category

1081 - UTILITIES - BID ITEMS

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
541.4600	FLOWABLE FILL, EXCAVATABLE		2.00	CY	\$428.586	\$857.17
604.4000	CHANGING ELEVATION OF DIS, CATCH BASINS, OR MANHOLES		6.00	EACH	\$1,341.249	\$8,047.49
622.1000	INSULATION BOARD		0.40	MFBM	\$2,375.000	\$950.00
625.3024	SLEEVES FOR UTILITIES, STEEL, 24 INCH		32.00	LF	\$200.000	\$6,400.00
625.6000	WIRED CONDUIT	(1 INCH)(PVC)(SCH. 40)	3,300.00	LF	\$20.019	\$66,062.70

Vermont Agency of Transportation

South Burlington RAIZ(1)

Estimate CONTRACT - Engineer's Estimate

625.6002	WIRED CONDUIT, 2 INCH	(PVC)(SCH.40)	3,600.00	LF	\$24.646	\$88,725.60
625.7000	POWER DROP STANCHION		1.00	EACH	\$7,500.000	\$7,500.00
625.7010	JUNCTION BOX		5.00	EACH	\$2,000.000	\$10,000.00
629.1748	DUCTILE IRON WATER PIPE, CEMENT-LINED, ALL-INCLUSIVE, 12 IN.		160.00	LF	\$250.000	\$40,000.00
629.2524	GATE VALVE WITH VALVE BOX, ALL- INCLUSIVE, 6 INCH		1.00	EACH	\$4,000.000	\$4,000.00
629.2548	GATE VALVE WITH VALVE BOX, ALL- INCLUSIVE, 12 INCH		2.00	EACH	\$5,000.000	\$10,000.00
629.2800	ADJUST ELEVATION OF VALVE BOX		2.00	EACH	\$262.753	\$525.51
629.3500	HYDRANT, ALL-INCLUSIVE		1.00	EACH	\$5,000.000	\$5,000.00
629.3800	REMOVE HYDRANT		1.00	EACH	\$1,000.000	\$1,000.00
629.4300	TRANSFER TO NEW SYSTEM, WATER, ALL- INCLUSIVE		1.00	LS	\$10,000.000	\$10,000.00
679.2400	REMOVE STREET LIGHT ASSEMBLY		1.00	EACH	\$5,000.000	\$5,000.00
679.2500	REMOVE AND RESET LIGHT POLE		2.00	EACH	\$5,000.000	\$10,000.00
679.4600	STREET LIGHT ASSEMBLY		55.00	EACH	\$7,500.000	\$412,500.00
679.5000	LUMINAIRE	(TYPE B LIGHT FIXTURES, RIBS)	11.00	EACH	\$1,393.372	\$15,327.09
679.5000	LUMINAIRE	(TYPE C LIGHT FIXTURES, BRIDGE HAND RAILING)	28.00	EACH	\$1,213.925	\$33,989.90
679.5400	STREET LIGHTING CONTROL DEVICE		1.00	EACH	\$5,000.000	\$5,000.00
SS007	SS-PLACEHOLDER-EA	(RELOCATE PEDESTRIAN SIGNAL)	1.00	EACH	\$5,000.000	\$5,000.00
SS013	SS-PLACEHOLDER-LS	(BICYCLE AND PEDESTRIAN COUNTER SYSTEM)	1.00	LS	\$25,000.000	\$25,000.00
Category total:						\$770,885.46

Category

1211 - BRIDGE NO. 1

Item Number	Description	Supplemental Description	Quantity	Unit	Unit Price	Amount
501.3700	PERFORMANCE-BASED CONCRETE, CLASS PCD		250.00	CY	\$1,800.000	\$450,000.00
501.3800	PERFORMANCE-BASED CONCRETE, CLASS PCS		470.00	CY	\$1,300.000	\$611,000.00
504.1000	FURNISHING EQUIPMENT FOR DRIVING PILING		1.00	LS	\$200,000.000	\$200,000.00
505.1800	STEEL PILING, HP 14 × 89		2,020.00	LF	\$110.000	\$222,200.00
505.4500	DYNAMIC PILE LOADING TEST		3.00	EACH	\$4,000.000	\$12,000.00
506.6000	STRUCTURAL STEEL	(GALVANIZED)	60,610.00	LB	\$15.000	\$909,150.00
507.1200	REINFORCING STEEL, LEVEL II		136,240.00	LB	\$2.487	\$338,828.88
508.1500	SHEAR CONNECTORS		1.00	LS	\$24,000.000	\$24,000.00
514.1000	WATER REPELLENT, SILANE		25.00	GAL	\$250.000	\$6,250.00
519.1000	MEMBRANE WATERPROOFING, SPRAY APPLIED		580.00	SY	\$115.000	\$66,700.00
531.1500	BEARING DEVICE ASSEMBLY, HIGH LOAD MULTI-ROTATIONAL		6.00	EACH	\$10,000.000	\$60,000.00

Vermont Agency of Transportation

South Burlington RAIZ(1)

Estimate CONTRACT - Engineer's Estimate

540.1500	PRECAST CONCRETE STRUCTURE	(MOMENT SLABS)	18.00	EACH	\$2,500.000	\$45,000.00
551.1000	PUBLIC PROTECTION FOR BRIDGE PROJECTS		1.00	LS	\$34,000.000	\$34,000.00
SS008	SS-PLACEHOLDER-GAL	(ANTI-GRAFFITI COATING)	60.00	GAL	\$500.000	\$30,000.00
SS012	SS-PLACEHOLDER-LF	(BRIDGE EXPANSION JOINT, STRIP SEAL)	40.00	LF	\$1,500.000	\$60,000.00
SS016	SS-PLACEHOLDER-LB	(STRUCTURAL STEEL, CURVED BOX GIRDER)	377,320.00	LB	\$5.500	\$2,075,260.00
SS017	SS-PLACEHOLDER-SF	(AESTHETIC BRIDGE PANELS)	4,770.00	SF	\$130.000	\$620,100.00
					Category total:	\$5,764,488.88

					Grand Total:	\$16,282,039.25
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