

PRELIMINARY
DESIGN
SECTION

**STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION**

PROJECT NO. A004(152)
STATE NO. 12210C

PRELIMINARY ESTIMATE (TOTAL)

CITY/TOWN: HINSDALE-BRATTLEBORO
COUNTY: CHESHIRE
ROAD: NH 119/VT 142
TYPE: BRIDGE REPLACEMENT

DATE: 10/10/2017
LENGTH: 0.81 MI
PAVEMENT: 24-36 FT WIDE
SHOULDERS: 3-8 FT WIDE

COST SHARE	VT	NH
BRIDGE	17%	83%
CONSTRUCTION	40%	60%

ITEM NO.	ITEM	UNIT	QUANTITY	PRICE	AMOUNT
203.1	COMMON EXCAVATION	CY	9,700	\$8.00	\$77,600
203.2	ROCK EXCAVATION	CY	131	\$35.00	\$4,585
203.6	EMBANKMENT-IN-PLACE	CY	20,300	\$6.00	\$121,800
209.1	GRANULAR BACKFILL	CY	240	\$45.00	\$10,800
214	FINE GRADING	U	1	\$14,800.00	\$14,800
304.1	SAND	CY	5,175	\$20.00	\$103,500
304.2	GRAVEL	CY	6,150	\$24.00	\$147,600
304.3	CRUSHED GRAVEL	CY	5,775	\$29.00	\$167,475
304.35	CRUSHED GRAVEL FOR DRIVES	CY	65	\$30.00	\$1,950
403.11	HOT BITUMINOUS PAVEMENT, MACHINE METHOD	TON	5,800	\$90.00	\$522,000
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	TON	70	\$119.00	\$8,330
563.23	BRIDGE RAIL T3	LF	70	\$160.00	\$11,200
563.24	BRIDGE RAIL T4	LF	115	\$158.00	\$18,170
565.232	BRIDGE APPROACH RAIL T3 (STEEL POSTS)	U	2	\$5,300.00	\$10,600
565.242	BRIDGE APPROACH RAIL T4 (STEEL POSTS)	U	2	\$10,000.00	\$20,000
585.3	STONE FILL, CLASS C	CY	100	\$41.00	\$4,100
606.18001	31" W-BEAM GUARDRAIL WITH 8" OFFSET BLOCK (STEEL POST)	LF	1,450	\$16.50	\$23,925
606.1254	BEAM GUARDRAIL (TERMINAL UNIT TYPE EAGRT, TL 3)	U	1	\$1,950.00	\$1,950
606.1255	BEAM GUARDRAIL (TERMINAL UNIT TYPE EAGRT, TL 2)	U	2	\$1,925.00	\$3,850
608.12	2" BITUMINOUS SIDEWALK	SY	1,620	\$16.00	\$25,920
609.01	STRAIGHT GRANITE CURB	LF	2,190	\$21.75	\$47,633
609.811	BITUMINOUS CURB, TYPE B (4" REVEAL)	LF	2,065	\$6.50	\$13,423
618.610	UNIFORMED OFFICERS WITH VEHICLE ¹	\$	1	\$30,000.00	\$30,000
618.700	FLAGGERS ¹	HR	4,000	\$25.00	\$100,000
619.1	MAINTENANCE OF TRAFFIC ¹	U	1	\$80,000.00	\$80,000
619.2	CONSTRUCTION SIGNS AND WARNING DEVICES ¹	U	1	\$35,000.00	\$35,000
619.25	PORTABLE CHANGEABLE MESSAGE SIGNS	U	4	\$3,400.00	\$13,600
	RETAINING WALL	U	1	\$125,000.00	\$125,000
	SIGNALS	U	1	\$175,000.00	\$175,000
					\$1,919,810
	MISCELLANEOUS ITEMS (20%)				\$383,962
	LIMITED RE-USE SOILS (NH ONLY)				\$200,000
	ITS - RWIS WEATHER STATION (NH ONLY)				\$80,000
	WATER TREATMENT (VT ONLY)				\$300,000
					\$2,883,772
	DRAINAGE (11%)				\$304,691
					\$3,188,463
	WATER POLLUTION CONTROL (20%) ¹				\$637,693
	MOBILIZATION (10%) ²				\$318,846
	CONTINGENCY (20%) ²				\$637,693
					ROADWAY SUB-TOTAL
					\$4,782,695
	CONSTRUCTION ENGINEERING (10%) ²				\$478,269
698.12	FIELD OFFICE TYPE C ¹	MON	30	\$1,800.00	\$54,000
698.2	PHYSICAL TESTING LABORATORY ¹	MON	30	\$1,000.00	\$30,000
					ROADWAY TOTAL
					\$5,344,964
	BRIDGE ^{2,3}	U	1	\$44,600,000	\$44,600,000
					BRIDGE TOTAL
					\$44,600,000
					CONSTRUCTION TOTAL
					\$49,944,964
					ROUNDED TOTAL
					\$50,000,000

¹ ITEMS SHARED BY EACH STATE (ROADWAY SPLIT)

² ITEMS SHARED BY EACH STATE (BRIDGE SPLIT)

³ INCLUDES MOBILIZATION AND CONSTRUCTION ENGINEERING

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