

JACOBS

PROJECT: MassDOT Sudbury BFRT
SUBJECT: Hop Brook Bridge Quantity
COMPUTED BY: TQ

CHECKED BY:

FILE NO. E2X81800
SHEET No.
DATE: Mar-20

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION
BRIDGE SECTION

BRIDGE NO.
S-31-007 (BF0)

< ESTIMATE OF QUANTITIES AND COST OF BRIDGE >

ITEM NO.	QUANTITY	UNITS	ITEM	AMOUNT
901.	20	CY	4000 PSI, 1.5 INCH, 565 CEMENT CONCRETE	\$25,500.0
908.	40	BAG	CEMENT FOR POINTING	\$14,000.0
910.1	3000	LB	STEEL REINFORCEMENT FOR STRUCTURES - EPOXY COATED	\$22,500.0
992.1	1	LS	ALTERATION TO BRIDGE STRUCTURE NO. S-31-007	\$150,000.0
994.1	480	SF	TEMPORARY PROTECTIVE SHIELDING	\$17,520.0

Sub Total: \$229,520
25% Contingency: \$57,380
Total: \$286,900
Say: **\$287,500**

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Item **901.** **4000 PSI, 1.5 INCH, 565 CEMENT CONCRETE** **CY**

Note: Information from VHB 25% design is used because it remains the same.

For back wall modifications:

Quantity	=	20	CY
Unit Price	=	\$1,275.0	
Total Cost	=	\$25,500.0	

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Item **908.** **CEMENT FOR POINTING** **BAG**

Note: Information from VHB 25% design is used because it remains the same.

Quantity	=	40	BAG
Unit Price	=	\$350.0	
Total Cost	=	\$14,000.0	

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Item **910.1** **STEEL REINFORCEMENT FOR STRUCTURES - EPOXY COATED** **LB**

Note: Information from VHB 25% design is used because it remains the same.

For back wall modifications, assume 150 pound per cubic yard

Quantity = 3000 LB

Unit Price = \$7.5

Total Cost = \$22,500.0

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Item 992.1 ALTERATION TO BRIDGE STRUCTURE NO. S-31-007 LS

Sub Item 961.201 CLEAN (FULL REMOVAL) AND PAINT STEEL BRIDGE NO. S-31-007 LS

Note: Information from VHB 25% design is used because it remains the same.

Quantity = 1 ea

Unit Price = \$68,000.0

Total Cost = \$68,000.0

Sub Item XXX NEW TIMBER DECK & RAILING SYSTEM LS

Note: Information from VHB 25% design is used because it remains the same.

Quantity = 1 ea

Unit Price = \$82,000.0

Total Cost = \$82,000.0

Total of 992.1 = \$150,000.0

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Item **994.1** **TEMPORARY PROTECTIVE SHIELDING** **SF**

Note: Information from VHB 25% design is used because it remains the same.

For protect waterway

Quantity	=	480	SF
Unit Price	=	\$36.5	(use max. for over water)
Total Cost	=	\$17,520.0	