PROJECT: MassDOT Sudbury BFRT FILE NO. E2X81800

SUBJECT: Pantry Brook Bridge Quantity SHEET No.

COMPUTED BY: TQ CHECKED BY: MT DATE: Mar-20

 $\label{eq:massachusetts} \mbox{ MASSACHUSETTS DEPARTMENT OF TRANSPORTATION } \\ \mbox{ HIGHWAY DIVISION}$

BRIDGE NO. S-31-013 (BF2)

BRIDGE SECTION

< ESTIMATE OF QUANTITIES AND COST OF BRIDGE >

ITEM NO.	QUANTITY	UNITS	ITEM	UNIT PRICE	AMOUNT
115.1	1	LS	DEMOLITION OF BRIDGE NO. S-31-013	\$16,800	\$16,800
140.	436	CY	BRIDGE EXCAVATION	\$86	\$37,509
151.1	72	CY	GRAVEL BORROW FOR BRIDGE FOUNDATION	\$95	\$6,826
151.2	404	CY	GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES	\$85	\$34,378
690.91	25	SY	MASONRY REPOINTING	\$155	\$3,875
690.92	114	SY	MASONRY REMOVED AND STOCKPILED	\$515	\$58,710
983.1	117	TON	RIPRAP	\$140	\$16,333
991	1	LS	CONTROL OF WATER	\$20,000	\$20,000
995.01	1	LS	BRIDGE STRUCTURE BRIDGE NO. S-31-013	\$282,720	\$282,720

Sub Total: \$477,151

25% Contingency: \$119,288

Total: \$596,439

Say: \$596,850

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<u>Item</u> <u>115.1</u> <u>DEMOLITION OF BRIDGE NO. S-31-013</u> <u>LS</u>

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

Quantity = 1 LS

Unit Price = \$16,800.0

Total Cost = \$16,800.0

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<u>ltem</u>	<u>140.</u>		/ATION	<u>CY</u>		
Note:	1' is added to both	width and le	ngth, 5' is added to t	the depth fo	r gravel borrow under foundation per MassDOT BM.	
South Abut.	Length	=	32.0	ft		
	Width	=	8.0	ft		
	Depth	=	23.0	ft		
	Volumn	=	218.1	су		
North Abut	Volumn	=	218.1	су	(Assume the same with South Abut.)	
	Total Volumn	=	436.1	cy		
	Unit Price	=	\$86.0			
	Total Cost	=	\$37,508.7			

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<u>ltem</u>	<u>151.1</u>	<u>G</u>	OGE FOUNDATION	CY		
Note:	5' under bridge fou	ndation per	MassDOT BM			
South Abut.	Plan Area	=	194.0	sf		
	Depth	=	5.0	ft		
	Volumn	=	35.9	cy		
North Abut	Volumn	=	35.9	су	(Assume the same with South Abut.)	
	Total Volumn	=	71.9	cy		
	Unit Price	=	\$95.0			
	Total Cost	=	\$6,825.9			

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<u>ltem</u>	<u>151.2</u>	GRAVEL E	BORROW FOR BA	ACKFILLING STRUCTURES AND PIPES	<u>CY</u>
	Elevation Area	=	780.0	sf	
	Width	=	14.0	ft	
	Volumn	=	404.4	су	
	Unit Price	=	\$85.0		
	Total Cost	=	\$34,377.78		

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COMPUTED BY: TQ CHECKED BY: MT DATE: Mar-20

<u>Item</u> 690.91 <u>MASONRY REPOINTING</u> <u>SY</u>

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

Quantity = 25 SY

Unit Price = \$155.0

Total Cost = \$3,875.0

PROJECT: MassDOT Sudbury BFRT FILE NO. E2X81800

SUBJECT: Pantry Brook Bridge Quantity SHEET No.

COMPUTED BY: TQ CHECKED BY: MT DATE: Mar-20

<u>Item</u> 690.92 <u>MASONRY REMOVED AND STOCKPILED</u> <u>SY</u>

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

Quantity = 114 SY

Unit Price = \$515.0

Total Cost = \$58,710.0

PROJECT: MassDOT Sudbury BFRT FILE NO. E2X81800

SUBJECT: Pantry Brook Bridge Quantity SHEET No.

COMPUTED BY: TQ CHECKED BY: MTDATE: Mar-20 <u>ltem</u> <u>983.1</u> <u>RIPRAP</u> <u>TON</u> South Abut. Section Area 27.8 $\mathbf{s}\mathbf{f}$ 35.0 ft Length Volumn 972.2 cf North Abut Volumn 972.2 cf (Assume the same with South Abut.) Total Volumn 1944.4 cf Add 20% for corner 2333.3 cf Unit Weight 100.0 pcf Total Weight 116.7 ton Unit Price \$140.0 **Total Cost** \$16,333.3

596,850

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SUBJECT: Pantry Brook Bridge Quantity SHEET No.

COMPUTED BY: TQ CHECKED BY: MT DATE: Mar-20

<u>Item</u> <u>991</u> <u>CONTROL OF WATER</u> <u>LS</u>

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

For protect waterway

Quantity = 1 LS

Unit Price = \$20,000.0

Total Cost = \$20,000.0

FILE NO.

E2X81800

PROJECT: MassDOT Sudbury BFRT

SUBJECT: COMPUTED	Pantry Brook B	ridge Quant	city CHECKED BY:	MT		SHEET No. DATE:	Mar-20
						DATE.	
<u>ltem</u>	<u>995.01</u>		BRIDGE STRUCT	TURE BRIDGE NO. S-3	<u>1-013</u>		<u>LS</u>
Sub Item	<u>655.3</u>		TREATED TIME	ER PEDESTRIAN RAIL	<u>ING</u>		FT
	Total Length	=	120	ft			
	Unit Price	=	\$155.0				
	Total Cost	=	\$18,600.0				
Sub Item	904.4	<u> </u>	1000 PSI, 3/4 INCH	685 HP CEMENT CON	ICRETE		CY
	Section Area	=	13.9	sf			
	Length	=	60	ft			
	Volumn	=	30.9	CY			
	Unit Price	=	\$3,100.0				
	Total Cost	=	\$43,055.6				
Sub Item	<u>910.1</u>	STEEL RI	EINFORCEMENT F	OR STRUCTURES - EF	POXY COATED		LB
	Assume 175 pour	nd per cubic	yard				596,850
	Quantity	=	5401.2	1b			
	Unit Price	=	\$3.9				
	Total Cost	=	\$21,064.8				
Sub Item	XXX		PRECAST CONC	RETE CULVERT INSTA	ALLED		LS
	Quantity	=	1	ea			
	Unit Price	=	\$200,000.0				
	Total Cost	=	\$200,000.0				
	<u>Total of 995.01</u>	=	\$282,720.4				