

24 Beard



Victoria F. Sheehan
Commissioner

THE STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION



William Cass, P.E.
Assistant Commissioner

Bureau of Construction
January 8, 2018

His Excellency, Governor Christopher T. Sununu
and the Honorable Council
State House
Concord, New Hampshire 03301

REQUESTED ACTION

1. Authorize the Department of Transportation to enter into a contract with CPM Constructors, Inc. (Vendor 153179) of Freeport, ME on the basis of a low bid of \$1,301,159.90 for furnishing and installing debris shielding and or debris netting on 15 bridges statewide, from the date of Governor and Council approval through September 14, 2018 unless extended by the Department in accordance with the Standard Specifications. 91% Federal Funds and 9% Turnpike Funds.

Funding is available in State Fiscal Year 2018 and 2019 as follows, with the ability to adjust encumbrances through the Budget Office between State Fiscal Years if needed and justified:

Funding is available as follows:	<u>FY 2018</u>	<u>FY 2019</u>
04-96-96-963515-3054 Consolidated Federal Aid 400-500870 Highway Contract Payments	\$1,000,000.00	\$178,393.24
04-96-96-961017-7025 Turnpike Renewal and Replacement 400-500870 Highway Contract Payments	\$100,000.00	\$22,766.66

2. Further authorize that a contingency in the amount of \$65,058.00 be approved for payment of latent conditions, which may appear during the construction of the project. The contingency requested is 5% of the contract amount.

Funding is available as follows:	<u>FY 2018</u>	<u>FY 2019</u>
04-96-96-963515-3054 Consolidated Federal Aid 400-500870 Highway Contract Payments		\$58,919.66
04-96-96-961017-7025 Turnpike Renewal and Replacement 400-500870 Highway Contract Payments		\$6,138.34

EXPLANATION

This project is part of the State's Ten Year Transportation Improvement Plan under the Bridge Tier 1/Tier 2 and Tier 3/Tier 4 Maintenance and Preservation Programs. This project consists of furnishing and installing Debris Shielding and or Debris Netting on 15 bridges statewide as shown in the table below:

No.	City/Town	State Bridge No.	Bridge Location	Proposed Shielding or Netting
1	Amherst	135/109	NH 122, Main Street over NH 101	Shielding
2	Bow	132/160	I-89 over South Street	Netting
3	Concord	142/116	Delta Drive over I-93, US 4	Shielding
4	Concord	150/107	US 202 over NHRR & Constitution Avenue	Shielding
5	Concord	152/107	I-93 SB on-ramp over NHRR & Constitution Avenue	Shielding
6	Concord	152/108	I-393, US 4, US 202 over I-93	Shielding
7	Concord	154/121	I-393, US 4, US 202 over FORT Eddy Road	Shielding
8	Gilford	114/066	US 3 & NH 11 over US 3 & NH 11	Shielding
9	Lebanon	093/109	I-89 NB over US 4 & NH 10 (Exit 19)	Shielding
10	Lebanon	094/108	I-89 SB over US 4 & NH 10 (Exit 19)	Shielding
11	Lebanon	103/116	Mascoma Street over I-89 & NH 10	Shielding and Netting (one bay only)
12	Manchester	176/106	Huse Road over I-293 & NH 101	Shielding
13	Merrimack	107/131	Baboosic Road over FEE TPK	Shielding
14	Merrimack	114/140	Wire Road over FEE TPK	Shielding
15	Warner	202/136	NH 103 over I-89 NB	Shielding

This project includes the installation of shielding and or netting on 15 bridges statewide, 12 red-listed bridges and 3 additional bridges not on the red list. All 15 bridges have shown a likelihood of spalling due to the degradation of the concrete deck. Bridge deck spalls can drop pieces of concrete onto the roadway below causing damage and endangering the traveling public. The proposed debris shielding and debris netting is intended to cover from the edge of pavement to edge of pavement, including any sidewalks, in order to prevent materials from the bridge deck from falling into the travel way.

The proposed contingency amount is 5% of the contract amount. There are fifteen bridges and site conditions that may require concrete removal or detail adjustments not originally anticipated.

Although the bid costs exceeded the Department's estimate by 9.31%, the low bid of 5 bids received is felt to be reasonable for the work involved. Re-advertising this project would result, in our opinion, in higher prices and prevent the completion of the work in a timely manner. The Department considers it to be in the best interest of the State to accept this bid to accomplish these needed repairs.

The Contractor has been prequalified by this Department. The Contract has been approved by the Attorney General as to form and execution, and the Department has certified that the necessary funds are available and the bid reasonably conforms to the engineer's estimate in accordance with State procedure. Copies of the fully executed contract are on file at the Secretary of State's Office and the Department of Administrative Service's Office, and subsequent to Governor and Council approval will be on file at the Department of Transportation.

This project is funded with 91% federal funds and 9% turnpike funds. The federal portion is funded with 80% federal funds with 20% state match. Turnpike toll credits is being utilized for match requirements effectively using 100% federal funds for the federally funded portion (91%) and turnpike funds will be used for the reaming 9% of the project funding.

A copy of the Tabulation of Bids received for this project is attached along with the Contract Supplemental Sheet and a map indicating the location of the project.

Sincerely,

 for

Victoria F. Sheehan
Commissioner

VFS/md

Department Estimate: \$1,190,360.00
Contract Amount: \$1,301,159.90
Over Estimate: \$ 110,799.90
Attachments

November 2, 2017

SUPPLEMENTAL PROJECT INFORMATION SHEET

DESCRIPTION: This project consists of furnishing and installing Debris Shielding and or Debris Netting on 15 bridges statewide as shown in the table below:

No.	City/Town	State Bridge No.	Bridge Location	Proposed Shielding or Netting
1	Amherst	135/109	NH 122, Main Street over NH 101	Shielding
2	Bow	132/160	I-89 over South Street	Netting
3	Concord	142/116	Delta Drive over I-93, US 4	Shielding
4	Concord	150/107	US 202 over NHRR & Constitution Avenue	Shielding
5	Concord	152/107	I-93 SB on-ramp over NHRR & Constitution Avenue	Shielding
6	Concord	152/108	I-393, US 4, US 202 over I-93	Shielding
7	Concord	154/121	I-393, US 4, US 202 over FORT Eddy Road	Shielding
8	Gilford	114/066	US 3 & NH 11 over US 3 & NH 11	Shielding
9	Lebanon	093/109	I-89 NB over US 4 & NH 10 (Exit 19)	Shielding
10	Lebanon	094/108	I-89 SB over US 4 & NH 10 (Exit 19)	Shielding
11	Lebanon	103/116	Mascoma Street over I-89 & NH 10	Shielding and Netting (one bay only)
12	Manchester	176/106	Huse Road over I-293 & NH 101	Shielding
13	Merrimack	107/131	Baboosic Road over FEE TPK	Shielding
14	Merrimack	114/140	Wire Road over FEE TPK	Shielding
15	Warner	202/136	NH 103 over I-89 NB	Shielding

FEDERAL FUNDING: State Owned Bridges: 80% (BRIDG-T1-2-Main-Pres, BRIDG-T3-3-Main-Pres) with anticipated utilization of Turnpike Toll Credits for the State's 20% match; Turnpike Owned Bridges: 100% TRR.

CONTINGENCY: The proposed contingency amount is 5% of the contract amount. There are fifteen bridges and site conditions are subject to change, such as the need to remove more netting than is currently present on these structures.

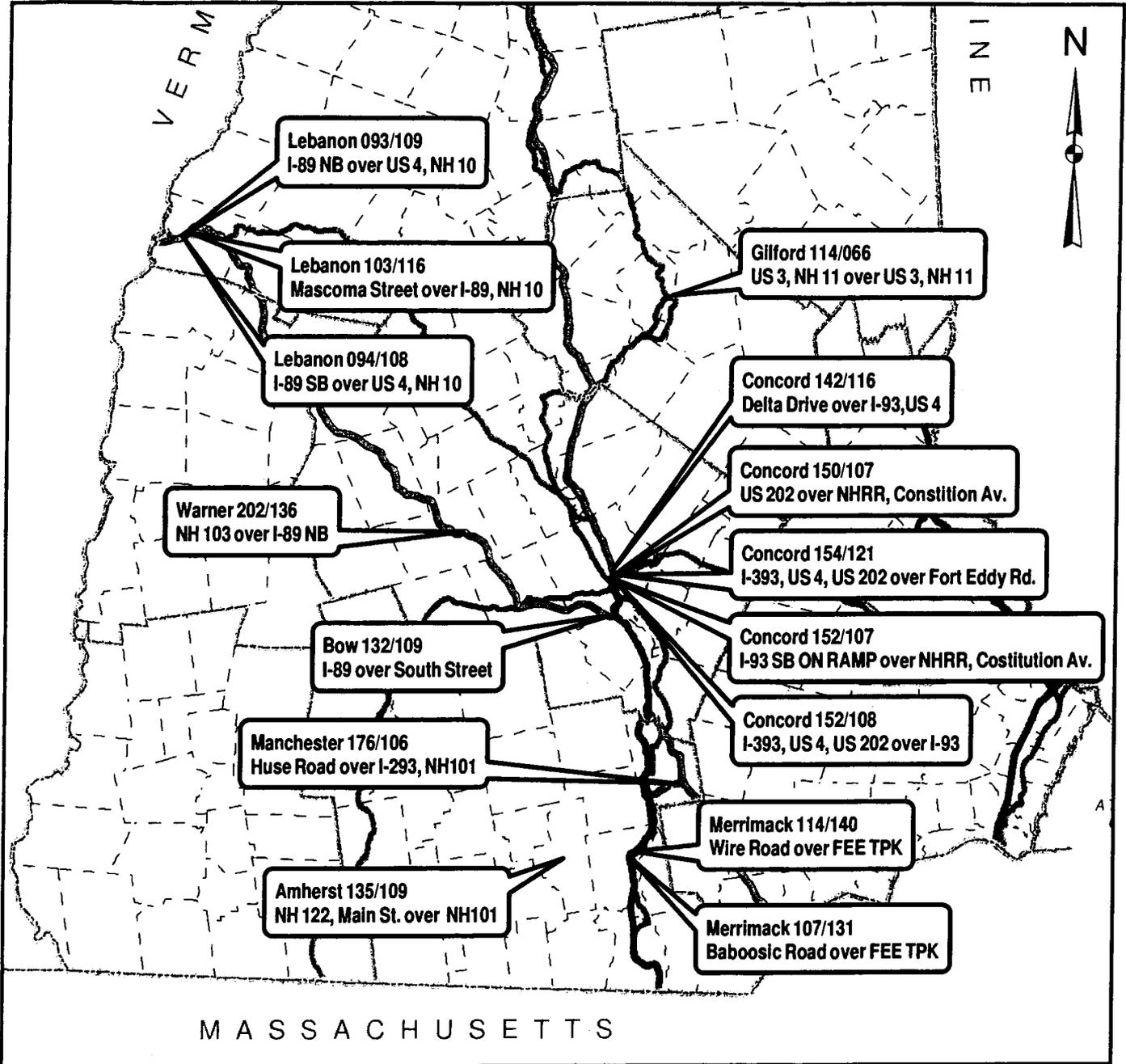
PROJECT INITIATED: This project was initiated through a request from the Front Office.

PROJECT EXPLANATION: This project includes the installation of shielding and or netting on 15 bridges statewide, 12 red-listed bridges and 3 additional bridges not on the red list. All 15 bridges have shown a likelihood of spalling either due to a detail between the top flange of the girders and the deck or due to the degradation of the deck itself. Bridge deck spalls can drop pieces of concrete onto the roadway below causing damage and endangering the traveling public. The proposed debris shielding and debris netting is intended to cover from the edge of pavement to edge of pavement, including any sidewalks, in order to prevent materials from the bridge deck from falling into the travel way.

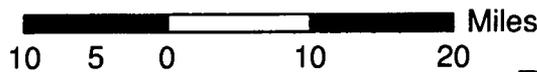
TRAFFIC IMPLICATION: Construction activities will require temporary lane closures and short term use of one lane, alternating two-way traffic supplemented with flaggers. During non-construction hours traffic will be returned to two-way traffic. Work on each bridge will be completed during predetermined hours to avoid peak hours. Concord Br. No. 152/108 requires closure of ramps at the I-93 and I-393 interchange with detours as depicted in the traffic control plans. Additionally traffic control at Concord Br. No. 142/116 and Manchester Br. No. 176/106 will require extra attention in regard to the location of on-ramps as described in the Traffic Control Plan.

FINAL COMPLETION DATE: September 14, 2018

41611 - Statewide



M A S S A C H U S E T T S



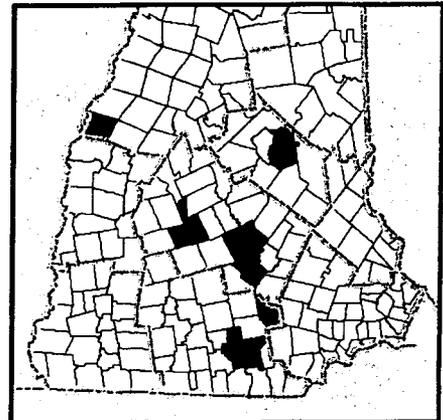
LEGEND

- Streams
- Water Bodies
- US Routes
- State Routes
- Interstates
- Local Roads
- Town Boundary

New Hampshire
DOT
Department of Transportation

State #: 41611
Federal #: X-A004(709)

LOCATION MAP



PROJECT: STATEWIDE
 STATE PROJECT NUMBER: 41611
 FED. PROJECT NUMBER: X-A004(709)
 DATE BIDS OPEN: December 07, 2017,
 SCOPE OF WORK: Provide shielding for poor bridge decks over highway traffic
 COMPLETION DATE: September 14, 2018
 LOCATION:

Awarded To: CPM CONSTRUCTORS INC
 30 BONNEY STREET
 FREEPORT, ME 04032

Amount: \$1,301,159.90
 Award Date:
 Certified by: PETER.E.STAMNANAS
Director of Project Development

Summary of Bidders

Contractor	Bid Amount	Rank
CPM CONSTRUCTORS INC 30 BONNEY STREET, PO BOX B, FREEPORT ME 04032 EVROKS CORP. 23 INDUSTRIAL DRIVE, NORTHFIELD NH 03276	\$1,301,159.90	A
BUCK, T. CONSTRUCTION, INC. 302B AUBURN ROAD, TURNER ME 04282	\$1,653,563.40	B
PIPER, R. M. INC. 141 SMITH BRIDGE RD, PO BOX 490, PLYMOUTH NH 03264-0490	\$1,697,770.00	C
DANIELS, NEIL H. INC. 4409 ROUTE 5 SOUTH, PO BOX 246, ASCUTNEY VT 05030-0246	\$2,056,284.00	D
	\$2,645,627.00	E

Item No.	Description	Unit	Quantity	P&S		CPM CONSTRUCTORS INC 34 BONNEY STREET FREEPORT, ME 04032		EVROKS CORP. 23 INDUSTRIAL DRIVE NORTHFIELD, NH 03276	
				Unit Price	Total	Unit Price	Total	Unit Price	Total

Items

502.101	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1.00	\$5,000.00	\$5,000.00	\$2,845.30	\$2,845.30	\$5,000.00	\$5,000.00
502.102	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1.00	\$3,000.00	\$3,000.00	\$2,720.00	\$2,720.00	\$5,000.00	\$5,000.00
502.103	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1.00	\$1,000.00	\$1,000.00	\$1,634.60	\$1,634.60	\$5,000.00	\$5,000.00
618.61	UNIFORMED OFFICERS WITH VEHICLE	\$	24,000.00	\$1.00	\$24,000.00	\$1.00	\$24,000.00	\$1.00	\$24,000.00
618.7	FLAGGERS	HR	200.00	\$22.00	\$4,400.00	\$34.75	\$6,950.00	\$34.00	\$6,800.00
619.1	MAINTENANCE OF TRAFFIC	U	1.00	\$100,000.00	\$100,000.00	\$31,500.00	\$31,500.00	\$75,000.00	\$75,000.00
619.25	PORTABLE CHANGEABLE MESSAGE SIGN	U	8.00	\$5,000.00	\$40,000.00	\$3,052.50	\$24,420.00	\$3,000.00	\$24,000.00
670.211	DEBRIS NETTING	SF	5,680.00	\$1.50	\$8,520.00	\$10.00	\$56,800.00	\$15.00	\$85,200.00
670.221	DEBRIS SHIELDING	SF	54,340.00	\$16.00	\$869,440.00	\$18.50	\$1,005,290.00	\$23.01	\$1,250,363.40
692.	MOBILIZATION	U	1.00	\$100,000.00	\$100,000.00	\$110,000.00	\$110,000.00	\$138,200.00	\$138,200.00
1002.1	REPAIRS OR REPLACEMENTS AS NEEDED - BRIDGE STRUCTURES	\$	15,000.00	\$1.00	\$15,000.00	\$1.00	\$15,000.00	\$1.00	\$15,000.00
1010.15	FUEL ADJUSTMENT	\$	20,000.00	\$1.00	\$20,000.00	\$1.00	\$20,000.00	\$1.00	\$20,000.00
				Totals:	\$1,190,360.00	\$1,301,199.90	\$1,653,563.40		
				Alt. Totals:					
				Totals:	\$1,190,360.00	\$1,301,199.90	\$1,653,563.40		

Item No.	Description	Unit	Quantity	PS&E		DANIEL S. NEIL & INC. 4499 ROUTE 5 SOUTH ASCUTNEY, VT 05030-0248	
				Unit Price	Total	Unit Price	Total

Items

502.101	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1.00	\$5,000.00	\$5,000.00	\$26,875.00	\$26,875.00
502.102	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1.00	\$3,000.00	\$3,000.00	\$22,250.00	\$22,250.00
502.103	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1.00	\$1,000.00	\$1,000.00	\$11,195.00	\$11,195.00
618.61	UNIFORMED OFFICERS WITH VEHICLE	\$	24,000.00	\$1.00	\$24,000.00	\$1.00	\$24,000.00
618.7	FLAGGERS	HR	200.00	\$22.00	\$4,400.00	\$62.95	\$12,590.00
619.1	MAINTENANCE OF TRAFFIC	U	1.00	\$100,000.00	\$100,000.00	\$264,645.00	\$264,645.00
619.25	PORTABLE CHANGEABLE MESSAGE SIGN	U	8.00	\$5,000.00	\$40,000.00	\$7,185.00	\$57,480.00
670.211	DEBRIS NETTING	SF	5,890.00	\$1.50	\$8,520.00	\$25.15	\$142,852.00
670.221	DEBRIS SHIELDING	SF	54,340.00	\$16.00	\$869,440.00	\$33.50	\$1,820,390.00
692.	MOBILIZATION	U	1.00	\$100,000.00	\$100,000.00	\$228,350.00	\$228,350.00
1002.1	REPAIRS OR REPLACEMENTS AS NEEDED - BRIDGE STRUCTURES	\$	15,000.00	\$1.00	\$15,000.00	\$1.00	\$15,000.00
1010.15	FUEL ADJUSTMENT	\$	20,000.00	\$1.00	\$20,000.00	\$1.00	\$20,000.00

Totals:				\$1,190,360.00	\$1,190,360.00	\$2,645,627.00	\$2,645,627.00
All Totals:							
Totals:				\$1,190,360.00	\$1,190,360.00	\$2,645,627.00	\$2,645,627.00



PS&E Comparison

STATEWIDE
41611
X-A004(709)

Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
502.101	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1.00	\$2,845.30	\$2,845.30	\$5,000.00	\$5,000.00	(\$2,154.70)
502.102	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1.00	\$2,720.00	\$2,720.00	\$3,000.00	\$3,000.00	(\$280.00)
502.103	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1.00	\$1,634.60	\$1,634.60	\$1,000.00	\$1,000.00	\$634.60
618.61	UNIFORMED OFFICERS WITH VEHICLE	\$	24,000.00	\$1.00	\$24,000.00	\$1.00	\$24,000.00	\$0.00
618.7	FLAGGERS	HR	200.00	\$34.75	\$6,950.00	\$22.00	\$4,400.00	\$2,550.00
619.1	MAINTENANCE OF TRAFFIC	U	1.00	\$31,500.00	\$31,500.00	\$100,000.00	\$100,000.00	(\$68,500.00)
619.25	PORTABLE CHANGEABLE MESSAGE SIGN	U	8.00	\$3,052.50	\$24,420.00	\$5,000.00	\$40,000.00	(\$15,580.00)
670.211	DEBRIS NETTING	SF	5,680.00	\$10.00	\$56,800.00	\$1.50	\$8,520.00	\$48,280.00
670.221	DEBRIS SHIELDING	SF	54,340.00	\$18.50	\$1,005,290.00	\$16.00	\$869,440.00	\$135,850.00
692.	MOBILIZATION	U	1.00	\$110,000.00	\$110,000.00	\$100,000.00	\$100,000.00	\$10,000.00
1002.1	REPAIRS OR REPLACEMENTS AS NEEDED - BRIDGE STRUCTURES	\$	15,000.00	\$1.00	\$15,000.00	\$1.00	\$15,000.00	\$0.00
1010.15	FUEL ADJUSTMENT	\$	20,000.00	\$1.00	\$20,000.00	\$1.00	\$20,000.00	\$0.00
Total:					\$1,301,159.90	\$1,190,360.00	\$110,799.90	

