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THE STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION



Victoria F. Sheehan
Commissioner

William Cass, P.E.
Assistant Commissioner

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

Bureau of Construction
November 18, 2021

REQUESTED ACTION

1. Authorize the Department of Transportation to enter into a contract with R.M. Piper, Inc. of Plymouth, NH (Vendor 174180), on the basis of a sole bid of \$5,428,180.50 for bridge replacement in Bedford, from the date of Governor and Council approval through July 14, 2023, unless extended by the Department in accordance with the Standard Specifications. 100% Federal Funds.

Funding is available in State Fiscal Years 2022 and 2023, and is contingent upon the availability and continued appropriation of funds in Fiscal Year 2024 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 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>
04-96-96-963515-3054			
Consolidated Federal Aid			
400-500870 Highway Contract Payments	\$2,403,908.45	\$2,791,635.60	\$232,636.45

2. Further authorize that a contingency in the amount of \$271,409.03 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 2024</u>
04-96-96-963515-3054	
Consolidated Federal Aid	
400-500870 Highway Contract Payments	\$271,409.03

EXPLANATION

This project is part of the State's Ten Year Transportation Improvement Plan. The project replaces the existing State Red List Bridge structure (twin 60" RCP's) with a new 50.5-foot span bridge (Br. No. 091/065) providing improved hydraulic needs and meeting stream crossing rules. A westbound left turn lane will be added to NH 101 for safer access to Twin Brook Lane. The roadway super elevation will be brought up to standard for the design speed (50 mph). The project is located within an MS4 area and will construct two water quality vegetated treatment swales meeting the necessary water quality treatment commitments for this project.

The purpose of this project is to address the State Red List Bridge (090/065), carrying NH Route 101 over Pulpit Brook and improve safety at the intersection of Twin Brook Lane and NH 101. The project is needed because the existing structure is nearing the end of its service life and provides Pulpit Brook increased

hydraulic capacity, meeting NH stream crossing rules. The project will improve water quality by constructing two (2) stormwater BMP's adjacent to NH 101, meeting MS4 and AOT guidelines.

The proposed contingency amount is 5% of the contract amount. This is to account for the risks associated with unanticipated bridge constructability issues related to construction phasing and potential fluctuating water levels in the Brook. In addition, the Contractor will need to manage Limited Reuse Soils which inherently results in uncertainties in staging and coordinating work efforts.

Although the bid costs exceeded the Department's estimate by 21.94%, the sole bid received is felt to be reasonable for the work involved. There were 16 items of significance that accounted for 85% of the overage (construct diversion, mobilization, maintenance of traffic, flaggers, RC pipe, stone fill, concrete, H-piles, pile driving equipment, cofferdams/water control (8). 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.

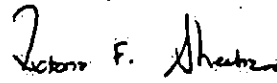
The Contractor has been prequalified by this Department. The Contract has been approved by the Attorney General as to form and execution, and the Department has certified that the necessary funds are available and the bid reasonably conforms to the engineer's estimate in accordance with State procedure. 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 funding is: 80% Federal (Bridge Replacement and Rehab Funds (BRRP)), with anticipated utilization of Turnpike Toll Credits for the State's 20% match effectively using 100% Federal Funds.

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.

Your approval of this resolution is respectfully requested.

Sincerely,



Victoria F. Sheehan
Commissioner

VFS/pcj

Department Estimate: \$4,451,427.40
Contract Amount: \$5,428,180.50
Over Estimate: \$ 976,753.10
Attachments



ABC Bid Data

BEDFORD
13692C
X-A004(254)

PROJECT: BEDFORD
STATE PROJECT NUMBER: 13692C
FED. PROJECT NUMBER: X-A004(254)
DATE BIDS OPEN: October 28, 2021, 2:00
SCOPE OF WORK: Replacement of Br No 090/065 (NH 101 over Pulpit Brook) and intersection improv. at
Twin Brook Ln
COMPLETION DATE: July 14, 2023
LOCATION: District 5, Hillsborough

Awarded To: PIPER, R. M. INC.
PO BOX 490
PLYMOUTH, NH 03264

Amount: \$5,428,180.50
Award Date:

Certified by: PETER.E.STAMNAS
Director of Project Development

Summary of Bidders

Contractor	Bid Amount	Rank
PIPER, R. M. INC. PO BOX 490, PLYMOUTH NH 03264	\$5,428,180.50	A



ABC Bid Data

BEDFORD
13692C
X-A004(254)

Item No.	Description	Unit	Quantity	P&E		PFER, R. H. INC. PO BOX 498 PLYMOUTH, NH 03264		Unit Price	Total
				Unit Price	Total	Unit Price	Total		

Items

201.1	CLEARING AND GRUBBING (F)	A	1.04	\$10,000.00	\$10,400.00	\$20,000.00	\$20,800.00		
201.21	REMOVING SMALL TREES	EA	14.00	\$300.00	\$4,200.00	\$1,200.00	\$16,800.00		
201.881	INVASIVE SPECIES CONTROL TYPE I	SY	300.00	\$7.50	\$2,250.00	\$10.00	\$3,000.00		
201.882	INVASIVE SPECIES CONTROL TYPE B	SY	110.00	\$7.50	\$825.00	\$10.00	\$1,100.00		
202.7	REMOVAL OF GUARDRAIL	LF	3,000.00	\$5.00	\$15,000.00	\$3.00	\$9,000.00		
203.1	COMMON EXCAVATION	CY	3,200.00	\$12.00	\$38,400.00	\$15.00	\$48,000.00		
203.11	COMMON EXCAVATION - LRS	CY	2,050.00	\$15.00	\$30,750.00	\$24.00	\$49,200.00		
203.2	ROCK EXCAVATION	CY	25.00	\$100.00	\$2,500.00	\$100.00	\$2,500.00		
203.4	MUCK EXCAVATION	CY	900.00	\$15.00	\$13,500.00	\$20.00	\$18,000.00		
203.5525	PORTABLE CHANGEABLE MESSAGE SIGN PLATFORM	U	2.00	\$1,000.00	\$2,000.00	\$950.00	\$1,900.00		
203.5561	EAGRT PLATFORM PREFERRED	U	2.00	\$1,500.00	\$3,000.00	\$1,450.00	\$2,900.00		
203.5562	EAGRT PLATFORM ALTERNATE	U	6.00	\$1,500.00	\$7,500.00	\$1,450.00	\$7,250.00		
203.6	EMBANKMENT-IN-PLACE (F)	CY	6,198.00	\$15.00	\$92,970.00	\$20.00	\$123,960.00		
203.661	GRAVEL BACKFILL FOR MUCK AND UNSUITABLE MATERIAL EXCAVATION	CY	1,000.00	\$25.00	\$25,000.00	\$30.00	\$30,000.00		
206.1	COMMON STRUCTURE EXCAVATION	CY	500.00	\$35.00	\$17,500.00	\$20.00	\$10,000.00		
206.19	COMMON STRUCTURE EXCAVATION EXPLORATORY	CY	25.00	\$100.00	\$2,500.00	\$100.00	\$2,500.00		
207.3	UNCLASSIFIED CHANNEL EXCAVATION	CY	1,700.00	\$30.00	\$51,000.00	\$25.00	\$42,500.00		
209.201	GRANULAR BACKFILL (BRIDGE) (F)	CY	650.00	\$50.00	\$32,500.00	\$55.00	\$35,750.00		
214.	FINE GRADING	U	1.00	\$19,000.00	\$19,000.00	\$20,000.00	\$20,000.00		
304.1	SAND (F)	CY	661.00	\$27.00	\$14,877.00	\$33.00	\$18,183.00		
304.32	CRUSHED GRAVEL FOR SHOULDER LEVELING	TON	225.00	\$25.00	\$5,625.00	\$40.00	\$9,000.00		
304.35	CRUSHED GRAVEL FOR DRIVES	CY	250.00	\$37.00	\$9,250.00	\$40.00	\$10,000.00		
304.4	CRUSHED STONE (FINE GRADATION) (F)	CY	612.00	\$36.00	\$22,032.00	\$35.00	\$21,420.00		
304.401	CRUSHED STONE (FINE GRADATION)	CY	300.00	\$36.00	\$10,800.00	\$35.00	\$10,500.00		



ABC Bid Data

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X-A004(254)

Item No.	Description	Unit	Quantity	P&E		PIPER, R. H. INC. PO BOX 489 PLYMOUTH, NH 03264		Unit Price	Total
				Unit Price	Total	Unit Price	Total		
304.41	CRUSHED STONE (FINE GRADATION) FOR SHIM	CY	40.00	\$45.00	\$1,800.00	\$35.00	\$1,400.00		
304.6	CRUSHED STONE (COARSE GRADATION) (F)	CY	69.00	\$35.00	\$2,065.00	\$35.00	\$2,065.00		
306.112	RECLAIMED STABILIZED BASE PROCESSED IN PLACE, 12 IN DEEP (F)	SY	8,162.00	\$1.50	\$12,228.00	\$2.50	\$20,380.00		
403.11022	HBP-3/4" BINDER MIX, MACHINE METHOD, QC/QA TIER 2	TON	2,700.00	\$77.00	\$207,900.00	\$80.00	\$216,000.00		
403.11042	HBP-1/2" SURFACE MIX, MACHINE METHOD, QC/QA TIER 2	TON	1,200.00	\$75.00	\$90,000.00	\$82.00	\$98,400.00		
403.12	HBP-HAND METHOD	TON	22.00	\$140.00	\$3,080.00	\$150.00	\$3,300.00		
403.16	PAVEMENT JOINT ADHESIVE	LF	30,000.00	\$0.30	\$9,000.00	\$0.27	\$8,100.00		
403.19	HBP-TEMPORARY	TON	850.00	\$95.00	\$80,750.00	\$80.00	\$68,000.00		
403.21053	HBP-3/8" MIX, MACHINE METHOD (BRIDGE BASE)	TON	30.00	\$300.00	\$9,000.00	\$150.00	\$4,500.00		
403.26	PAVEMENT JOINT ADHESIVE (BRIDGE BASE)	LF	400.00	\$5.00	\$2,000.00	\$1.10	\$440.00		
403.4	MATERIAL TRANSFER VEHICLE (MTV)	TON	3,850.00	\$3.00	\$11,550.00	\$3.00	\$11,550.00		
410.22	ASPHALT EMULSION FOR TACK COAT	GAL	1,700.00	\$5.00	\$8,500.00	\$5.25	\$8,925.00		
411.1	HOT BITUMINOUS CONCRETE LEVELING COURSE	TON	280.00	\$85.00	\$23,800.00	\$88.00	\$24,640.00		
417.	COLD PLANING BITUMINOUS SURFACES	SY	2,600.00	\$4.50	\$11,700.00	\$4.50	\$11,700.00		
502.	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1.00	\$30,000.00	\$30,000.00	\$40,000.00	\$40,000.00		
503.101	WATER DIVERSION STRUCTURE	U	1.00	\$10,000.00	\$10,000.00	\$50,000.00	\$50,000.00		
503.102	WATER DIVERSION STRUCTURE	U	1.00	\$4,000.00	\$4,000.00	\$50,000.00	\$50,000.00		
503.103	WATER DIVERSION STRUCTURE	U	1.00	\$3,000.00	\$3,000.00	\$25,000.00	\$25,000.00		
503.104	WATER DIVERSION STRUCTURE	U	1.00	\$3,000.00	\$3,000.00	\$25,000.00	\$25,000.00		
503.105	WATER DIVERSION STRUCTURE	U	1.00	\$5,000.00	\$5,000.00	\$25,000.00	\$25,000.00		
503.106	WATER DIVERSION STRUCTURE	U	1.00	\$4,000.00	\$4,000.00	\$25,000.00	\$25,000.00		
503.201	COFFERDAMS	U	1.00	\$64,000.00	\$64,000.00	\$85,000.00	\$85,000.00		
503.202	COFFERDAMS	U	1.00	\$2,500.00	\$2,500.00	\$42,500.00	\$42,500.00		
503.203	COFFERDAMS	U	1.00	\$2,500.00	\$2,500.00	\$42,500.00	\$42,500.00		
503.204	COFFERDAMS	U	1.00	\$5,000.00	\$5,000.00	\$75,000.00	\$75,000.00		
503.205	COFFERDAMS	U	1.00	\$27,000.00	\$27,000.00	\$52,500.00	\$52,500.00		



ABC Bid Data

BEDFORD
13692C
X-A004(254)

Item No.	Description	Unit	Quantity	P&E		PIPER, R. M. INC. PO BOX 498 PLYMOUTH, NH 03284		Unit Price	Total
				Unit Price	Total	Unit Price	Total		
603.206	COFFERDAMS	U	1.00	\$31,000.00	\$31,000.00	\$52,500.00	\$52,500.00		
603.207	COFFERDAMS	U	1.00	\$18,000.00	\$18,000.00	\$42,500.00	\$42,500.00		
603.208	COFFERDAMS	U	1.00	\$14,000.00	\$14,000.00	\$42,500.00	\$42,500.00		
604.1	COMMON BRIDGE EXCAVATION (F)	CY	1,100.00	\$30.00	\$33,000.00	\$18.00	\$19,800.00		
608.	STRUCTURAL FILL	CY	100.00	\$65.00	\$6,500.00	\$60.00	\$6,000.00		
610.1	PILE DRIVING EQUIPMENT	U	1.00	\$50,000.00	\$50,000.00	\$75,000.00	\$75,000.00		
610.22	HIGH-STRAIN DYNAMIC TESTING	EA	4.00	\$4,000.00	\$16,000.00	\$5,500.00	\$22,000.00		
610.61	FURNISHING & DRIVING STEEL BEARING PILES	LB	104,000.00	\$0.75	\$78,000.00	\$1.20	\$124,800.00		
610.65	DRIVING-POINTS FOR STEEL BEARING PILES	EA	14.00	\$250.00	\$3,500.00	\$175.00	\$2,450.00		
610.9	PILE SPLICES	EA	14.00	\$400.00	\$5,600.00	\$325.00	\$4,550.00		
620.0302	CONCRETE CLASS AA APPROACH SLABS (QC/QA) (F)	CY	179.00	\$650.00	\$116,350.00	\$600.00	\$107,400.00		
620.1	CONCRETE CLASS A	CY	2.00	\$700.00	\$1,400.00	\$1,600.00	\$3,200.00		
620.12	CONCRETE CLASS A, ABOVE FOOTINGS (F)	CY	185.00	\$1,000.00	\$185,000.00	\$1,200.00	\$222,000.00		
620.7002	CONCRETE BRIDGE DECK (QC/QA) (F)	CY	96.00	\$1,300.00	\$124,800.00	\$1,100.00	\$105,600.00		
628.3224	PRESTRESSED CONCRETE BRIDGE DECK, BUTTED BOX BEAMS (F)	SF	2,860.00	\$200.00	\$572,000.00	\$138.00	\$394,680.00		
634.3	WATER REPELLENT (SILANE/SILOXANE)	GAL	20.00	\$100.00	\$2,000.00	\$100.00	\$2,000.00		
638.2	BARRIER MEMBRANE, PEEL AND STICK - VERTICAL SURFACES (F)	SY	11.00	\$55.00	\$605.00	\$60.00	\$660.00		
638.6	BARRIER MEMBRANE, HEAT WELDED - MACHINE METHOD (F)	SY	682.00	\$25.00	\$14,550.00	\$30.00	\$17,460.00		
641.5	PVC WATERSTOPS, NH TYPE S (F)	LF	111.00	\$10.00	\$1,110.00	\$12.00	\$1,332.00		
644.	REINFORCING STEEL (F)	LB	21,738.00	\$2.00	\$43,476.00	\$1.70	\$36,954.60		
644.1	REINFORCING STEEL (ROADWAY)	LB	16.00	\$6.25	\$100.00	\$1.70	\$27.20		
644.11	REINFORCING STEEL- MECHANICAL CONNECTORS (F)	LB	726.00	\$5.50	\$3,993.00	\$6.00	\$4,356.00		
644.2	REINFORCING STEEL, EPOXY COATED (F)	LB	34,664.00	\$2.10	\$72,794.40	\$1.80	\$62,395.20		
644.21	REINFORCING STEEL, EPOXY COATED, MECHANICAL CONNECTORS (F)	LB	1,315.00	\$5.50	\$7,232.50	\$7.00	\$9,205.00		
648.11	ELASTOMERIC BEARING PADS (F)	EA	60.00	\$300.00	\$18,000.00	\$450.00	\$27,000.00		
659.41	ASPHALTIC PLUG FOR CRACK CONTROL (F)	LF	102.00	\$130.00	\$13,260.00	\$100.00	\$10,200.00		



ABC Bid Data

BEDFORD
13692C
X-A004(254)

Item No.	Description	Unit	Quantity	P&E		PPER, R. H. INC. PO BOX 490 PLYMOUTH, NH 03264		Unit Price	Total
				Unit Price	Total	Unit Price	Total		
559.6	PERFORMED CLOSED CELL EXPANSION JOINT SYSTEM (F)	LF	114.00	\$200.00	\$22,800.00	\$190.00	\$21,660.00		
562.1	SILICONE JOINT SEALANT (F)	LF	14.00	\$20.00	\$280.00	\$25.00	\$350.00		
563.23	BRIDGE RAIL T3	LF	192.00	\$160.00	\$30,720.00	\$250.00	\$48,000.00		
565.232	BRIDGE APPROACH RAIL T3 (STEEL POSTS)	U	4.00	\$6,200.00	\$24,800.00	\$9,400.00	\$37,600.00		
583.3	RIPRAP, CLASS III	CY	250.00	\$60.00	\$15,000.00	\$55.00	\$13,750.00		
585.2	STONE FILL, CLASS B	CY	2,600.00	\$45.00	\$117,000.00	\$55.00	\$143,000.00		
585.3	STONE FILL, CLASS C	CY	60.00	\$55.00	\$3,300.00	\$55.00	\$3,300.00		
585.3401	SIMULATED STREAMBED MATERIAL	CY	100.00	\$60.00	\$6,000.00	\$60.00	\$6,000.00		
593.411	GEOTEXTILE; PERM CONTROL CL.1, NON-WOVEN	SY	5,700.00	\$4.00	\$22,800.00	\$4.00	\$22,800.00		
603.0001	VIDEO INSPECTION	LF	980.00	\$3.00	\$2,940.00	\$5.00	\$4,900.00		
603.00218	18" R.C. PIPE, 2000D	LF	850.00	\$75.00	\$63,750.00	\$120.00	\$102,000.00		
603.30118	18" R.C. END SECTIONS	EA	5.00	\$850.00	\$4,250.00	\$750.00	\$3,750.00		
603.34112	12" STEEL END SECTIONS	EA	1.00	\$300.00	\$300.00	\$340.00	\$340.00		
603.40012	12" PIPE FOR SLOPE DRAINAGE	LF	25.00	\$55.00	\$1,375.00	\$50.00	\$1,250.00		
603.60015	LAYING/RELAYING 16" DRAINAGE PIPE	LF	16.00	\$100.00	\$1,600.00	\$80.00	\$1,280.00		
603.99018	18" TEMPORARY DRAINAGE PIPE	LF	60.00	\$60.00	\$3,600.00	\$60.00	\$3,600.00		
603.99060	60" TEMPORARY DRAINAGE PIPE	LF	90.00	\$200.00	\$18,000.00	\$400.00	\$36,000.00		
604.0007	POLYETHYLENE LINER	EA	11.00	\$150.00	\$1,650.00	\$260.00	\$2,860.00		
604.124	CATCH BASINS TYPE B, 4-FOOT DIAMETER	U	4.00	\$2,500.00	\$10,000.00	\$2,800.00	\$11,200.00		
604.125	CATCH BASINS TYPE B, 5-FOOT DIAMETER	U	3.00	\$3,300.00	\$9,900.00	\$3,800.00	\$11,400.00		
604.164	CATCH BASINS TYPE F, 4-FOOT DIAMETER	U	8.00	\$2,800.00	\$22,400.00	\$3,150.00	\$25,200.00		
604.2249	TEMPORARY DROP INLET TYPE B, 4-FOOT DIAMETER	U	1.00	\$1,800.00	\$1,800.00	\$2,100.00	\$2,100.00		
604.242	DROP INLETS TYPE D-B	U	1.00	\$2,500.00	\$2,500.00	\$1,700.00	\$1,700.00		
604.325	DRAINAGE MANHOLES, 5-FOOT DIAMETER	U	2.00	\$3,600.00	\$7,200.00	\$4,200.00	\$8,400.00		
605.906	6" PIPE UNDERDRAIN (CONTRACTORS OPTION)	LF	80.00	\$35.00	\$2,800.00	\$60.00	\$4,800.00		
606.1254	BEAM GUARDRAIL (TERMINAL UNIT TYPE EAGRT, TL 3) (STEEL POST)	U	7.00	\$3,500.00	\$24,500.00	\$4,500.00	\$31,500.00		



ABC Bid Data

BEDFORD
13692C
X-A004(254)

Item No.	Description	Unit	Quantity	P&E		PPER, R. H. INC. PO BOX 480 PLYMOUTH, NH 03284		Unit Price	Total
				Unit Price	Total	Unit Price	Total		
606.18001	31" W-BEAM GUARDRAIL WITH 8" OFFSET BLOCK (STEEL POST)	LF	3,100.00	\$27.00	\$83,700.00	\$35.00	\$108,500.00		
606.417	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL	LF	2,100.00	\$32.00	\$67,200.00	\$35.00	\$73,500.00		
606.41741	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL - BRIDGE	LF	110.00	\$75.00	\$8,250.00	\$80.00	\$8,800.00		
606.9523	TEMP. IMPACT ATTENUATION DEVICE (NON-REDIRECTIVE) TEST LEVEL 3	U	4.00	\$8,000.00	\$32,000.00	\$4,500.00	\$18,000.00		
607.140	WOVEN WIRE FENCE, 4'-0" HIGH	LF	625.00	\$12.50	\$6,562.50	\$20.00	\$10,500.00		
607.4140	POST ASSEMBLIES FOR WOVEN WIRE FENCE, 4'-0" HIGH	EA	8.00	\$200.00	\$1,600.00	\$225.00	\$1,800.00		
607.64316	BAR WAY, 16 FT.	U	1.00	\$2,500.00	\$2,500.00	\$3,800.00	\$3,800.00		
607.98	RESET MISCELLANEOUS FENCE	LF	250.00	\$50.00	\$12,500.00	\$30.00	\$7,500.00		
607.9839	RESET GRANITE POST	EA	1.00	\$400.00	\$400.00	\$1,100.00	\$1,100.00		
607.9840	RESETTING MISCELLANEOUS FENCE TYPES, 4' HIGH	LF	17.00	\$50.00	\$850.00	\$70.00	\$1,190.00		
609.01	STRAIGHT GRANITE CURB	LF	140.00	\$35.00	\$4,900.00	\$50.00	\$7,000.00		
609.811	BITUMINOUS CURB, TYPE B (4" REVEAL)	LF	2,650.00	\$9.00	\$23,850.00	\$5.00	\$13,250.00		
615.0301	TRAFFIC SIGN TYPE C	SF	10.00	\$46.00	\$460.00	\$100.00	\$1,000.00		
615.034	RELOCATING TRAFFIC SIGN, TYPE C	U	9.00	\$150.00	\$1,350.00	\$200.00	\$1,800.00		
618.61	UNIFORMED OFFICERS WITH VEHICLE	\$	90,000.00	\$1.00	\$90,000.00	\$1.00	\$90,000.00		
618.7	FLAGGERS	HR	3,600.00	\$35.00	\$122,500.00	\$45.00	\$157,500.00		
619.1	MAINTENANCE OF TRAFFIC	U	1.00	\$100,000.00	\$100,000.00	\$125,000.00	\$125,000.00		
619.26	PORTABLE CHANGEABLE MESSAGE SIGN	U	2.00	\$2,300.00	\$4,600.00	\$12,500.00	\$25,000.00		
619.279	AUTOMATED TRAILER-MOUNTED SPEED LIMIT SIGN	U	2.00	\$4,000.00	\$8,000.00	\$6,000.00	\$12,000.00		
619.63	TRUCK-MOUNTED IMPACT ATTENUATOR, TEST LEVEL 3	U	2.00	\$8,000.00	\$16,000.00	\$15,000.00	\$30,000.00		
621.2	RETROREFLECTIVE BEAM GUARDRAIL DELINEATOR	EA	36.00	\$7.00	\$252.00	\$20.00	\$720.00		
621.31	SINGLE DELINEATOR WITH POST	EA	24.00	\$60.00	\$1,440.00	\$60.00	\$1,440.00		
621.32	DOUBLE DELINEATOR WITH POST	EA	3.00	\$65.00	\$195.00	\$65.00	\$195.00		
622.1	STEEL WITNESS MARKERS	EA	16.00	\$38.00	\$570.00	\$35.00	\$525.00		
628.2	SAWED BITUMINOUS PAVEMENT	LF	270.00	\$4.00	\$1,080.00	\$3.00	\$810.00		
632.0104	RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE	LF	61,000.00	\$0.25	\$15,250.00	\$0.25	\$15,250.00		



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Item No.	Description	Unit	Quantity	P&E		PPER, R. M. INC. PO BOX 490 PLYMOUTH, NH 03264		Unit Price	Total
				Unit Price	Total	Unit Price	Total		
632.1104	PREFORMED RETROREFLECTIVE TAPE, TYPE I (REMOVABLE) 4" LINE	LF	14,500.00	\$1.00	\$14,500.00	\$1.50	\$21,750.00		
632.3104	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 4" LINE	LF	460.00	\$2.00	\$920.00	\$4.50	\$2,070.00		
632.3118	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 18" LINE	LF	20.00	\$7.00	\$140.00	\$4.50	\$90.00		
632.32	RETROREFLECT. THERMOPLAS. PAVEMENT MARKING, SYMBOL OR WORD	SF	35.00	\$12.00	\$420.00	\$32.50	\$1,137.50		
632.911	OBLITERATE PAVE. MARKING LINE, 12" WIDE & UNDER	LF	13,000.00	\$0.75	\$9,750.00	\$1.10	\$14,300.00		
643.21	FERTILIZER FOR REFERTILIZATION	LB	2,000.00	\$1.75	\$3,500.00	\$0.50	\$1,000.00		
645.0001	TURBIDITY BARRIER	LF	60.00	\$40.00	\$2,400.00	\$48.00	\$2,880.00		
645.3	EROSION STONE	TON	300.00	\$35.00	\$10,500.00	\$30.00	\$9,000.00		
645.44	TEMPORARY SLOPE MATTING TYPE D (WILDLIFE FRIENDLY)	SY	3,000.00	\$3.00	\$9,000.00	\$2.50	\$7,500.00		
645.45	PERMANENT CHANNEL MATTING TYPE A	SY	1,100.00	\$8.00	\$8,800.00	\$9.50	\$10,450.00		
645.612	COMPOST SOCK FOR PERIMETER BERM	LF	3,400.00	\$6.00	\$20,400.00	\$8.50	\$28,900.00		
645.631	SILT FENCE	LF	7,500.00	\$3.00	\$22,500.00	\$3.00	\$22,500.00		
645.611	BONDED FIBER MATRIX (BFM)	LB	10,000.00	\$1.50	\$15,000.00	\$1.85	\$18,500.00		
645.7	STORM WATER POLLUTION PREVENTION PLAN	U	1.00	\$4,000.00	\$4,000.00	\$14,500.00	\$14,500.00		
645.71	MONITORING SWPPP AND EROSION AND SEDIMENT CONTROLS	HR	700.00	\$90.00	\$63,000.00	\$95.00	\$66,500.00		
645.72	FINAL WETLAND IMPACT REPORT	U	1.00	\$3,000.00	\$3,000.00	\$2,750.00	\$2,750.00		
646.3	TURF ESTABLISHMENT WITH MULCH AND TACKIFIERS	A	2.50	\$2,500.00	\$6,250.00	\$3,500.00	\$8,750.00		
647.1	HUMUS	CY	2,050.00	\$25.00	\$51,250.00	\$15.00	\$30,750.00		
647.29	WETLAND HUMUS	CY	160.00	\$30.00	\$4,800.00	\$40.00	\$6,400.00		
670.04501	CONSTRUCT AND REMOVE DIVERSION	U	1.00	\$97,000.00	\$97,000.00	\$300,000.00	\$300,000.00		
670.104	TEMPORARY PORTABLE LIGHTING	U	4.00	\$5,000.00	\$20,000.00	\$6,500.00	\$26,000.00		
670.822	GNSS CONSTRUCTION INSPECTION EQUIPMENT	U	1.00	\$30,000.00	\$30,000.00	\$30,000.00	\$30,000.00		
692.	MOBILIZATION	U	1.00	\$300,000.00	\$300,000.00	\$400,000.00	\$400,000.00		
693.	ON-THE-JOB TRAINING OF UNSKILLED WORKERS	\$	600.00	\$1.00	\$600.00	\$1.00	\$600.00		
697.11	INVASIVE SPECIES CONTROL AND MANAGEMENT PLAN	U	1.00	\$2,000.00	\$2,000.00	\$1,200.00	\$1,200.00		
697.31	PROJECT OPERATIONS PLAN	U	1.00	\$5,000.00	\$5,000.00	\$1,200.00	\$1,200.00		



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Item No.	Description	Unit	Quantity	P&E		PPER, R. M. INC. PO BOX 499 PLYMOUTH, NH 03294		Unit Price	Total
				Unit Price	Total	Unit Price	Total		
697.41	CRITICAL PATH METHOD (CPM) ELECTRONIC SCHEDULE	U	1.00	\$4,500.00	\$4,500.00	\$3,500.00	\$3,500.00		
698.12	FIELD OFFICE TYPE B	MON	18.00	\$2,200.00	\$39,600.00	\$1,200.00	\$21,600.00		
698.2	PHYSICAL TESTING LABORATORY	MON	18.00	\$900.00	\$16,200.00	\$1,200.00	\$21,600.00		
699.	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	\$	73,500.00	\$1.00	\$73,500.00	\$1.00	\$73,500.00		
1010.15	FUEL ADJUSTMENT	\$	40,000.00	\$1.00	\$40,000.00	\$1.00	\$40,000.00		
1010.2	ASPHALT CEMENT ADJUSTMENT	\$	10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00		
1010.3	QUALITY CONTROL QUALITY ASSURANCE (QC/QA) ASPHALT	\$	15,600.00	\$1.00	\$15,600.00	\$1.00	\$15,600.00		
1010.41	QUALITY CONTROL QUALITY ASSURANCE (QC/QA) FOR CONCRETE	\$	21,000.00	\$1.00	\$21,000.00	\$1.00	\$21,000.00		
Totals:				\$4,451,427.40	\$4,451,427.40	\$5,428,180.50	\$5,428,180.50		
Alt. Totals:									
Totals:				\$4,451,427.40	\$4,451,427.40	\$5,428,180.50	\$5,428,180.50		



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Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
Items								
201.1	CLEARING AND GRUBBING (F)	A	1.04	\$20,000.00	\$20,800.00	\$10,000.00	\$10,400.00	\$10,400.00
201.21	REMOVING SMALL TREES	EA	14.00	\$1,200.00	\$16,800.00	\$300.00	\$4,200.00	\$12,600.00
201.881	INVASIVE SPECIES CONTROL TYPE I	SY	300.00	\$10.00	\$3,000.00	\$7.50	\$2,250.00	\$750.00
201.882	INVASIVE SPECIES CONTROL TYPE II	SY	110.00	\$10.00	\$1,100.00	\$7.50	\$825.00	\$275.00
202.7	REMOVAL OF GUARDRAIL	LF	3,000.00	\$3.00	\$9,000.00	\$5.00	\$15,000.00	(\$6,000.00)
203.1	COMMON EXCAVATION	CY	3,200.00	\$15.00	\$48,000.00	\$12.00	\$38,400.00	\$9,600.00
203.11	COMMON EXCAVATION - LRS	CY	2,050.00	\$24.00	\$49,200.00	\$15.00	\$30,750.00	\$18,450.00
203.2	ROCK EXCAVATION	CY	25.00	\$100.00	\$2,500.00	\$100.00	\$2,500.00	\$0.00
203.4	MUCK EXCAVATION	CY	900.00	\$20.00	\$18,000.00	\$15.00	\$13,500.00	\$4,500.00
203.5525	PORTABLE CHANGEABLE MESSAGE SIGN PLATFORM	U	2.00	\$950.00	\$1,900.00	\$1,000.00	\$2,000.00	(\$100.00)
203.5561	EAGRT PLATFORM PREFERRED	U	2.00	\$1,450.00	\$2,900.00	\$1,500.00	\$3,000.00	(\$100.00)
203.5562	EAGRT PLATFORM ALTERNATE	U	5.00	\$1,450.00	\$7,250.00	\$1,500.00	\$7,500.00	(\$250.00)
203.6	EMBANKMENT-IN-PLACE (F)	CY	6,198.00	\$20.00	\$123,960.00	\$15.00	\$92,970.00	\$30,990.00
203.661	GRAVEL BACKFILL FOR MUCK AND UNSUITABLE MATERIAL EXCAVATION	CY	1,000.00	\$30.00	\$30,000.00	\$25.00	\$25,000.00	\$5,000.00



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Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
206.1	COMMON STRUCTURE EXCAVATION	CY	500.00	\$20.00	\$10,000.00	\$35.00	\$17,500.00	(\$7,500.00)
206.19	COMMON STRUCTURE EXCAVATION EXPLORATORY	CY	25.00	\$100.00	\$2,500.00	\$100.00	\$2,500.00	\$0.00
207.3	UNCLASSIFIED CHANNEL EXCAVATION	CY	1,700.00	\$25.00	\$42,500.00	\$30.00	\$51,000.00	(\$8,500.00)
209.201	GRANULAR BACKFILL (BRIDGE) (F)	CY	650.00	\$55.00	\$35,750.00	\$50.00	\$32,500.00	\$3,250.00
214.	FINE GRADING	U	1.00	\$20,000.00	\$20,000.00	\$19,000.00	\$19,000.00	\$1,000.00
304.1	SAND (F)	CY	551.00	\$33.00	\$18,183.00	\$27.00	\$14,877.00	\$3,306.00
304.32	CRUSHED GRAVEL FOR SHOULDER LEVELING	TON	225.00	\$40.00	\$9,000.00	\$25.00	\$5,625.00	\$3,375.00
304.35	CRUSHED GRAVEL FOR DRIVES	CY	250.00	\$40.00	\$10,000.00	\$37.00	\$9,250.00	\$750.00
304.4	CRUSHED STONE (FINE GRADATION) (F)	CY	612.00	\$35.00	\$21,420.00	\$36.00	\$22,032.00	(\$612.00)
304.401	CRUSHED STONE (FINE GRADATION)	CY	300.00	\$35.00	\$10,500.00	\$36.00	\$10,800.00	(\$300.00)
304.41	CRUSHED STONE (FINE GRADATION) FOR SHIM	CY	40.00	\$35.00	\$1,400.00	\$45.00	\$1,800.00	(\$400.00)
304.5	CRUSHED STONE (COARSE GRADATION) (F)	CY	59.00	\$35.00	\$2,065.00	\$35.00	\$2,065.00	\$0.00
306.112	RECLAIMED STABILIZED BASE PROCESSED IN PLACE, 12 IN DEEP (F)	SY	8,152.00	\$2.50	\$20,380.00	\$1.50	\$12,228.00	\$8,152.00
403.11022	HBP-3/4" BINDER MIX, MACHINE METHOD, QC/QA TIER 2	TON	2,700.00	\$80.00	\$216,000.00	\$77.00	\$207,900.00	\$8,100.00
403.11042	HBP-1/2" SURFACE MIX, MACHINE METHOD, QC/QA TIER 2	TON	1,200.00	\$82.00	\$98,400.00	\$75.00	\$90,000.00	\$8,400.00
403.12	HBP-HAND METHOD	TON	22.00	\$150.00	\$3,300.00	\$140.00	\$3,080.00	\$220.00



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Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
403.16	PAVEMENT JOINT ADHESIVE	LF	30,000.00	\$0.27	\$8,100.00	\$0.30	\$9,000.00	(\$900.00)
403.19	HBP-TEMPORARY	TON	850.00	\$80.00	\$68,000.00	\$95.00	\$80,750.00	(\$12,750.00)
403.21053	HBP-3/8" MIX, MACHINE METHOD (BRIDGE BASE)	TON	30.00	\$150.00	\$4,500.00	\$300.00	\$9,000.00	(\$4,500.00)
403.26	PAVEMENT JOINT ADHESIVE (BRIDGE BASE)	LF	400.00	\$1.10	\$440.00	\$5.00	\$2,000.00	(\$1,560.00)
403.4	MATERIAL TRANSFER VEHICLE (MTV)	TON	3,850.00	\$3.00	\$11,550.00	\$3.00	\$11,550.00	\$0.00
410.22	ASPHALT EMULSION FOR TACK COAT	GAL	1,700.00	\$5.25	\$8,925.00	\$5.00	\$8,500.00	\$425.00
411.1	HOT BITUMINOUS CONCRETE LEVELING COURSE	TON	280.00	\$88.00	\$24,640.00	\$85.00	\$23,800.00	\$840.00
417.	COLD PLANING BITUMINOUS SURFACES	SY	2,600.00	\$4.50	\$11,700.00	\$4.50	\$11,700.00	\$0.00
502.	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	1.00	\$40,000.00	\$40,000.00	\$30,000.00	\$30,000.00	\$10,000.00
503.101	WATER DIVERSION STRUCTURE	U	1.00	\$50,000.00	\$50,000.00	\$10,000.00	\$10,000.00	\$40,000.00
503.102	WATER DIVERSION STRUCTURE	U	1.00	\$50,000.00	\$50,000.00	\$4,000.00	\$4,000.00	\$46,000.00
503.103	WATER DIVERSION STRUCTURE	U	1.00	\$25,000.00	\$25,000.00	\$3,000.00	\$3,000.00	\$22,000.00
503.104	WATER DIVERSION STRUCTURE	U	1.00	\$25,000.00	\$25,000.00	\$3,000.00	\$3,000.00	\$22,000.00
503.105	WATER DIVERSION STRUCTURE	U	1.00	\$25,000.00	\$25,000.00	\$5,000.00	\$5,000.00	\$20,000.00
503.106	WATER DIVERSION STRUCTURE	U	1.00	\$25,000.00	\$25,000.00	\$4,000.00	\$4,000.00	\$21,000.00
503.201	COFFERDAMS	U	1.00	\$85,000.00	\$85,000.00	\$64,000.00	\$64,000.00	\$21,000.00
503.202	COFFERDAMS	U	1.00	\$42,500.00	\$42,500.00	\$2,500.00	\$2,500.00	\$40,000.00



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Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
503.203	COFFERDAMS	U	1.00	\$42,500.00	\$42,500.00	\$2,500.00	\$2,500.00	\$40,000.00
503.204	COFFERDAMS	U	1.00	\$75,000.00	\$75,000.00	\$5,000.00	\$5,000.00	\$70,000.00
503.205	COFFERDAMS	U	1.00	\$52,500.00	\$52,500.00	\$27,000.00	\$27,000.00	\$25,500.00
503.206	COFFERDAMS	U	1.00	\$52,500.00	\$52,500.00	\$31,000.00	\$31,000.00	\$21,500.00
503.207	COFFERDAMS	U	1.00	\$42,500.00	\$42,500.00	\$18,000.00	\$18,000.00	\$24,500.00
503.208	COFFERDAMS	U	1.00	\$42,500.00	\$42,500.00	\$14,000.00	\$14,000.00	\$28,500.00
504.1	COMMON BRIDGE EXCAVATION (F)	CY	1,100.00	\$18.00	\$19,800.00	\$30.00	\$33,000.00	(\$13,200.00)
508.	STRUCTURAL FILL	CY	100.00	\$60.00	\$6,000.00	\$65.00	\$6,500.00	(\$500.00)
510.1	PILE DRIVING EQUIPMENT	U	1.00	\$75,000.00	\$75,000.00	\$50,000.00	\$50,000.00	\$25,000.00
510.22	HIGH-STRAIN DYNAMIC TESTING	EA	4.00	\$5,500.00	\$22,000.00	\$4,000.00	\$16,000.00	\$6,000.00
510.61	FURNISHING & DRIVING STEEL BEARING PILES	LB	104,000.00	\$1.20	\$124,800.00	\$0.75	\$78,000.00	\$46,800.00
510.65	DRIVING-POINTS FOR STEEL BEARING PILES	EA	14.00	\$175.00	\$2,450.00	\$250.00	\$3,500.00	(\$1,050.00)
510.9	PILE SPLICES	EA	14.00	\$325.00	\$4,550.00	\$400.00	\$5,600.00	(\$1,050.00)
520.0302	CONCRETE CLASS AA APPROACH SLABS (QC/QA) (F)	CY	179.00	\$600.00	\$107,400.00	\$650.00	\$116,350.00	(\$8,950.00)
520.1	CONCRETE CLASS A	CY	2.00	\$1,600.00	\$3,200.00	\$700.00	\$1,400.00	\$1,800.00
520.12	CONCRETE CLASS A, ABOVE FOOTINGS (F)	CY	185.00	\$1,200.00	\$222,000.00	\$1,000.00	\$185,000.00	\$37,000.00
520.7002	CONCRETE BRIDGE DECK (QC/QA) (F)	CY	96.00	\$1,100.00	\$105,600.00	\$1,300.00	\$124,800.00	(\$19,200.00)

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Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
528.3224	PRESTRESSED CONCRETE BRIDGE DECK, BUTTED BOX BEAMS (F)	SF	2,860.00	\$138.00	\$394,680.00	\$200.00	\$572,000.00	(\$177,320.00)
534.3	WATER REPELLENT (SILANE/SILOXANE)	GAL	20.00	\$100.00	\$2,000.00	\$100.00	\$2,000.00	\$0.00
538.2	BARRIER MEMBRANE, PEEL AND STICK - VERTICAL SURFACES (F)	SY	11.00	\$60.00	\$660.00	\$55.00	\$605.00	\$55.00
538.6	BARRIER MEMBRANE, HEAT WELDED - MACHINE METHOD (F)	SY	582.00	\$30.00	\$17,460.00	\$25.00	\$14,550.00	\$2,910.00
541.5	PVC WATERSTOPS, NH TYPE 5 (F)	LF	111.00	\$12.00	\$1,332.00	\$10.00	\$1,110.00	\$222.00
544.	REINFORCING STEEL (F)	LB	21,738.00	\$1.70	\$36,954.60	\$2.00	\$43,476.00	(\$6,521.40)
544.1	REINFORCING STEEL (ROADWAY)	LB	16.00	\$1.70	\$27.20	\$6.25	\$100.00	(\$72.80)
544.11	REINFORCING STEEL- MECHANICAL CONNECTORS (F)	LB	726.00	\$6.00	\$4,356.00	\$5.50	\$3,993.00	\$363.00
544.2	REINFORCING STEEL, EPOXY COATED (F)	LB	34,664.00	\$1.80	\$62,395.20	\$2.10	\$72,794.40	(\$10,399.20)
544.21	REINFORCING STEEL, EPOXY COATED, MECHANICAL CONNECTORS (F)	LB	1,315.00	\$7.00	\$9,205.00	\$5.50	\$7,232.50	\$1,972.50
548.11	ELASTOMERIC BEARING PADS (F)	EA	60.00	\$450.00	\$27,000.00	\$300.00	\$18,000.00	\$9,000.00
559.41	ASPHALTIC PLUG FOR CRACK CONTROL (F)	LF	102.00	\$100.00	\$10,200.00	\$130.00	\$13,260.00	(\$3,060.00)
559.6	PREFORMED CLOSED CELL EXPANSION JOINT SYSTEM (F)	LF	114.00	\$190.00	\$21,660.00	\$200.00	\$22,800.00	(\$1,140.00)
562.1	SILICONE JOINT SEALANT (F)	LF	14.00	\$25.00	\$350.00	\$20.00	\$280.00	\$70.00
563.23	BRIDGE RAIL T3	LF	192.00	\$250.00	\$48,000.00	\$160.00	\$30,720.00	\$17,280.00
565.232	BRIDGE APPROACH RAIL T3 (STEEL POSTS)	U	4.00	\$9,400.00	\$37,600.00	\$6,200.00	\$24,800.00	\$12,800.00



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Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
583.3	RIPRAP, CLASS III	CY	250.00	\$55.00	\$13,750.00	\$60.00	\$15,000.00	(\$1,250.00)
585.2	STONE FILL, CLASS B	CY	2,600.00	\$55.00	\$143,000.00	\$45.00	\$117,000.00	\$26,000.00
585.3	STONE FILL, CLASS C	CY	60.00	\$55.00	\$3,300.00	\$55.00	\$3,300.00	\$0.00
585.3401	SIMULATED STREAMBED MATERIAL	CY	100.00	\$60.00	\$6,000.00	\$60.00	\$6,000.00	\$0.00
593.411	GEOTEXTILE; PERM CONTROL CL.1, NON-WOVEN	SY	5,700.00	\$4.00	\$22,800.00	\$4.00	\$22,800.00	\$0.00
603.0001	VIDEO INSPECTION	LF	980.00	\$5.00	\$4,900.00	\$3.00	\$2,940.00	\$1,960.00
603.00218	18" R.C. PIPE, 2000D	LF	850.00	\$120.00	\$102,000.00	\$75.00	\$63,750.00	\$38,250.00
603.30118	18" R.C. END SECTIONS	EA	5.00	\$750.00	\$3,750.00	\$850.00	\$4,250.00	(\$500.00)
603.34112	12" STEEL END SECTIONS	EA	1.00	\$340.00	\$340.00	\$300.00	\$300.00	\$40.00
603.40012	12" PIPE FOR SLOPE DRAINAGE	LF	25.00	\$50.00	\$1,250.00	\$55.00	\$1,375.00	(\$125.00)
603.60015	LAYING/RELAYING 15" DRAINAGE PIPE	LF	16.00	\$80.00	\$1,280.00	\$100.00	\$1,600.00	(\$320.00)
603.99018	18" TEMPORARY DRAINAGE PIPE	LF	60.00	\$60.00	\$3,600.00	\$60.00	\$3,600.00	\$0.00
603.99060	60" TEMPORARY DRAINAGE PIPE	LF	90.00	\$400.00	\$36,000.00	\$200.00	\$18,000.00	\$18,000.00
604.0007	POLYETHYLENE LINER	EA	11.00	\$260.00	\$2,860.00	\$150.00	\$1,650.00	\$1,210.00
604.124	CATCH BASINS TYPE B, 4-FOOT DIAMETER	U	4.00	\$2,800.00	\$11,200.00	\$2,500.00	\$10,000.00	\$1,200.00
604.125	CATCH BASINS TYPE B, 5-FOOT DIAMETER	U	3.00	\$3,800.00	\$11,400.00	\$3,300.00	\$9,900.00	\$1,500.00
604.164	CATCH BASINS TYPE F, 4-FOOT DIAMETER	U	8.00	\$3,150.00	\$25,200.00	\$2,800.00	\$22,400.00	\$2,800.00



PS&E Comparison

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Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
604.2249	TEMPORARY DROP INLET TYPE B, 4-FOOT DIAMETER	U	1.00	\$2,100.00	\$2,100.00	\$1,800.00	\$1,800.00	\$300.00
604.242	DROP INLETS TYPE D-B	U	1.00	\$1,700.00	\$1,700.00	\$2,500.00	\$2,500.00	(\$800.00)
604.325	DRAINAGE MANHOLES, 5-FOOT DIAMETER	U	2.00	\$4,200.00	\$8,400.00	\$3,600.00	\$7,200.00	\$1,200.00
605.906	6" PIPE UNDERDRAIN (CONTRACTORS OPTION)	LF	80.00	\$60.00	\$4,800.00	\$35.00	\$2,800.00	\$2,000.00
606.1254	BEAM GUARDRAIL (TERMINAL UNIT TYPE EAGRT, TL 3) (STEEL POST)	U	7.00	\$4,500.00	\$31,500.00	\$3,500.00	\$24,500.00	\$7,000.00
606.18001	31" W-BEAM GUARDRAIL WITH 8" OFFSET BLOCK (STEEL POST)	LF	3,100.00	\$35.00	\$108,500.00	\$27.00	\$83,700.00	\$24,800.00
606.417	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL	LF	2,100.00	\$35.00	\$73,500.00	\$32.00	\$67,200.00	\$6,300.00
606.41741	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL - BRIDGE	LF	110.00	\$80.00	\$8,800.00	\$75.00	\$8,250.00	\$550.00
606.9523	TEMP. IMPACT ATTENUATION DEVICE (NON-REDIRECTIVE) TEST LEVEL 3	U	4.00	\$4,500.00	\$18,000.00	\$8,000.00	\$32,000.00	(\$14,000.00)
607.140	WOVEN WIRE FENCE, 4'-0" HIGH	LF	525.00	\$20.00	\$10,500.00	\$12.50	\$6,562.50	\$3,937.50
607.4140	POST ASSEMBLIES FOR WOVEN WIRE FENCE, 4'-0" HIGH	EA	8.00	\$225.00	\$1,800.00	\$200.00	\$1,600.00	\$200.00
607.64316	BAR WAY, 16 FT.	U	1.00	\$3,800.00	\$3,800.00	\$2,500.00	\$2,500.00	\$1,300.00
607.98	RESET MISCELLANEOUS FENCE	LF	250.00	\$30.00	\$7,500.00	\$50.00	\$12,500.00	(\$5,000.00)
607.9839	RESET GRANITE POST	EA	1.00	\$1,100.00	\$1,100.00	\$400.00	\$400.00	\$700.00
607.9840	RESETTING MISCELLANEOUS FENCE TYPES, 4' HIGH	LF	17.00	\$70.00	\$1,190.00	\$50.00	\$850.00	\$340.00
609.01	STRAIGHT GRANITE CURB	LF	140.00	\$50.00	\$7,000.00	\$35.00	\$4,900.00	\$2,100.00

PS&E Comparison

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Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
609.811	BITUMINOUS CURB, TYPE B (4" REVEAL)	LF	2,650.00	\$5.00	\$13,250.00	\$9.00	\$23,850.00	(\$10,600.00)
615.0301	TRAFFIC SIGN TYPE C	SF	10.00	\$100.00	\$1,000.00	\$46.00	\$460.00	\$540.00
615.034	RELOCATING TRAFFIC SIGN, TYPE C	U	9.00	\$200.00	\$1,800.00	\$150.00	\$1,350.00	\$450.00
618.61	UNIFORMED OFFICERS WITH VEHICLE	\$	90,000.00	\$1.00	\$90,000.00	\$1.00	\$90,000.00	\$0.00
618.7	FLAGGERS	HR	3,500.00	\$45.00	\$157,500.00	\$35.00	\$122,500.00	\$35,000.00
619.1	MAINTENANCE OF TRAFFIC	U	1.00	\$125,000.00	\$125,000.00	\$100,000.00	\$100,000.00	\$25,000.00
619.25	PORTABLE CHANGEABLE MESSAGE SIGN	U	2.00	\$12,500.00	\$25,000.00	\$2,300.00	\$4,600.00	\$20,400.00
619.279	AUTOMATED TRAILER-MOUNTED SPEED LIMIT SIGN	U	2.00	\$6,000.00	\$12,000.00	\$4,000.00	\$8,000.00	\$4,000.00
619.63	TRUCK-MOUNTED IMPACT ATTENUATOR, TEST LEVEL 3	U	2.00	\$15,000.00	\$30,000.00	\$8,000.00	\$16,000.00	\$14,000.00
621.2	RETROREFLECTIVE BEAM GUARDRAIL DELINEATOR	EA	36.00	\$20.00	\$720.00	\$7.00	\$252.00	\$468.00
621.31	SINGLE DELINEATOR WITH POST	EA	24.00	\$60.00	\$1,440.00	\$60.00	\$1,440.00	\$0.00
621.32	DOUBLE DELINEATOR WITH POST	EA	3.00	\$65.00	\$195.00	\$65.00	\$195.00	\$0.00
622.1	STEEL WITNESS MARKERS	EA	15.00	\$35.00	\$525.00	\$38.00	\$570.00	(\$45.00)
628.2	SAWED BITUMINOUS PAVEMENT	LF	270.00	\$3.00	\$810.00	\$4.00	\$1,080.00	(\$270.00)
632.0104	RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE	LF	61,000.00	\$0.25	\$15,250.00	\$0.25	\$15,250.00	\$0.00
632.1104	PREFORMED RETROREFLECTIVE TAPE, TYPE I (REMOVABLE) 4" LINE	LF	14,500.00	\$1.50	\$21,750.00	\$1.00	\$14,500.00	\$7,250.00



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Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
632.3104	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 4" LINE	LF	460.00	\$4.50	\$2,070.00	\$2.00	\$920.00	\$1,150.00
632.3118	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 18" LINE	LF	20.00	\$4.50	\$90.00	\$7.00	\$140.00	(\$50.00)
632.32	RETROREFLECT. THERMOPLAS. PAVEMENT MARKING, SYMBOL OR WORD	SF	35.00	\$32.50	\$1,137.50	\$12.00	\$420.00	\$717.50
632.911	OBLITERATE PAVE. MARKING LINE, 12" WIDE & UNDER	LF	13,000.00	\$1.10	\$14,300.00	\$0.75	\$9,750.00	\$4,550.00
643.21	FERTILIZER FOR REFERTILIZATION	LB	2,000.00	\$0.50	\$1,000.00	\$1.75	\$3,500.00	(\$2,500.00)
645.0001	TURBIDITY BARRIER	LF	60.00	\$48.00	\$2,880.00	\$40.00	\$2,400.00	\$480.00
645.3	EROSION STONE	TON	300.00	\$30.00	\$9,000.00	\$35.00	\$10,500.00	(\$1,500.00)
645.44	TEMPORARY SLOPE MATTING TYPE D (WILDLIFE FRIENDLY)	SY	3,000.00	\$2.50	\$7,500.00	\$3.00	\$9,000.00	(\$1,500.00)
645.45	PERMANENT CHANNEL MATTING TYPE A	SY	1,100.00	\$9.50	\$10,450.00	\$8.00	\$8,800.00	\$1,650.00
645.512	COMPOST SOCK FOR PERIMETER BERM	LF	3,400.00	\$8.50	\$28,900.00	\$6.00	\$20,400.00	\$8,500.00
645.531	SILT FENCE	LF	7,500.00	\$3.00	\$22,500.00	\$3.00	\$22,500.00	\$0.00
645.611	BONDED FIBER MATRIX (BFM)	LB	10,000.00	\$1.85	\$18,500.00	\$1.50	\$15,000.00	\$3,500.00
645.7	STORM WATER POLLUTION PREVENTION PLAN	U	1.00	\$14,500.00	\$14,500.00	\$4,000.00	\$4,000.00	\$10,500.00
645.71	MONITORING SWPPP AND EROSION AND SEDIMENT CONTROLS	HR	700.00	\$95.00	\$66,500.00	\$90.00	\$63,000.00	\$3,500.00
645.72	FINAL WETLAND IMPACT REPORT	U	1.00	\$2,750.00	\$2,750.00	\$3,000.00	\$3,000.00	(\$250.00)
646.3	TURF ESTABLISHMENT WITH MULCH AND TACKIFIERS	A	2.50	\$3,500.00	\$8,750.00	\$2,500.00	\$6,250.00	\$2,500.00



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Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
647.1	HUMUS	CY	2,050.00	\$15.00	\$30,750.00	\$25.00	\$51,250.00	(\$20,500.00)
647.29	WETLAND HUMUS	CY	160.00	\$40.00	\$6,400.00	\$30.00	\$4,800.00	\$1,600.00
670.04501	CONSTRUCT AND REMOVE DIVERSION	U	1.00	\$300,000.00	\$300,000.00	\$97,000.00	\$97,000.00	\$203,000.00
670.104	TEMPORARY PORTABLE LIGHTING	U	4.00	\$6,500.00	\$26,000.00	\$5,000.00	\$20,000.00	\$6,000.00
670.822	GNSS CONSTRUCTION INSPECTION EQUIPMENT	U	1.00	\$30,000.00	\$30,000.00	\$30,000.00	\$30,000.00	\$0.00
692.	MOBILIZATION	U	1.00	\$400,000.00	\$400,000.00	\$300,000.00	\$300,000.00	\$100,000.00
693.	ON-THE-JOB TRAINING OF UNSKILLED WORKERS	\$	600.00	\$1.00	\$600.00	\$1.00	\$600.00	\$0.00
697.11	INVASIVE SPECIES CONTROL AND MANAGEMENT PLAN	U	1.00	\$1,200.00	\$1,200.00	\$2,000.00	\$2,000.00	(\$800.00)
697.31	PROJECT OPERATIONS PLAN	U	1.00	\$1,200.00	\$1,200.00	\$5,000.00	\$5,000.00	(\$3,800.00)
697.41	CRITICAL PATH METHOD (CPM) ELECTRONIC SCHEDULE	U	1.00	\$3,500.00	\$3,500.00	\$4,500.00	\$4,500.00	(\$1,000.00)
698.12	FIELD OFFICE TYPE B	MON	18.00	\$1,200.00	\$21,600.00	\$2,200.00	\$39,600.00	(\$18,000.00)
698.2	PHYSICAL TESTING LABORATORY	MON	18.00	\$1,200.00	\$21,600.00	\$900.00	\$16,200.00	\$5,400.00
699.	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	\$	73,500.00	\$1.00	\$73,500.00	\$1.00	\$73,500.00	\$0.00
1010.15	FUEL ADJUSTMENT	\$	40,000.00	\$1.00	\$40,000.00	\$1.00	\$40,000.00	\$0.00
1010.2	ASPHALT CEMENT ADJUSTMENT	\$	10,000.00	\$1.00	\$10,000.00	\$1.00	\$10,000.00	\$0.00
1010.3	QUALITY CONTROL QUALITY ASSURANCE (QC/QA) ASPHALT	\$	15,600.00	\$1.00	\$15,600.00	\$1.00	\$15,600.00	\$0.00



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Item No.	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
1010.41	QUALITY CONTROL QUALITY ASSURANCE (QC/QA) FOR CONCRETE	\$	21,000.00	\$1.00	\$21,000.00	\$1.00	\$21,000.00	\$0.00
Total:					\$5,428,180.50		\$4,451,427.40	\$976,753.10

September 13, 2021

SUPPLEMENTAL PROJECT INFORMATION SHEET

DESCRIPTION: Replace the existing State Red List Bridge structure (twin 60" RCP's) with a new 50.5-foot span bridge (Br. No. 091/065) providing improved hydraulic needs and meeting stream crossing rules. A westbound left turn lane will be added to NH 101 for safer access to Twin Brook Lane. The roadway superelevation will be brought up to standard for the design speed (50 mph). The project is located within an MS4 area and will construct two water quality vegetated treatment swales meeting the necessary water quality treatment commitments for this project.

FEDERAL FUNDING: 80% (Bridge Replacement and Rehab Funds (BRRP)) with anticipated utilization of Turnpike Toll Credits for the State's 20% match.

CONTINGENCY: The proposed contingency amount is 5% of the contract amount. This is to account for the risks associated with unanticipated bridge constructability issues related to construction phasing and potential fluctuating water levels in the Brook. In addition, the Contractor will need to manage Limited Reuse Soils which inherently results in uncertainties in staging and coordinating work efforts.

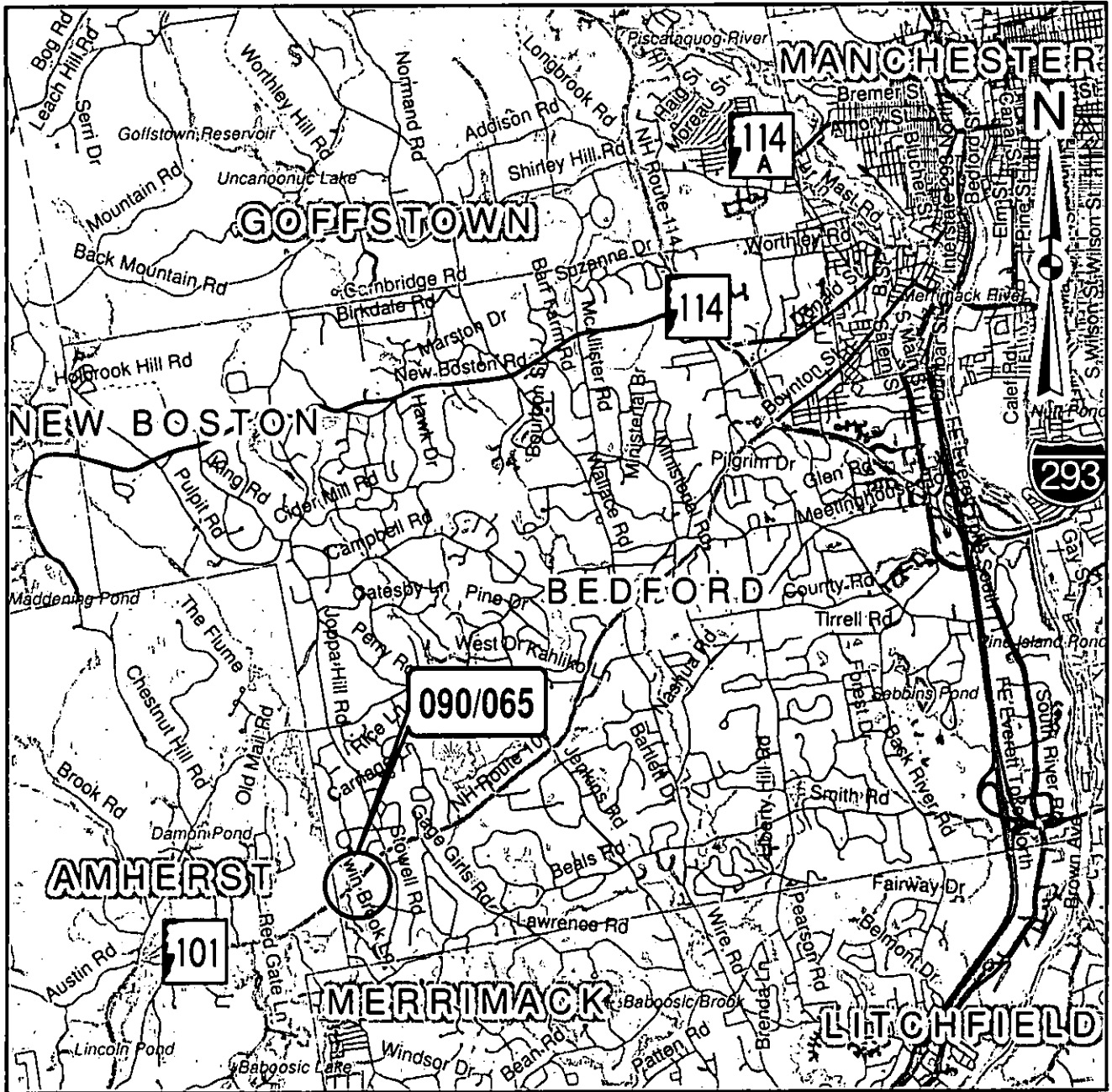
PROJECT INITIATED: This project was initiated through the 10-year improvement plan.

PROJECT EXPLANATION: The purpose of this project is to address the State Red List Bridge (090/065), carrying NH Route 101 over Pulpit Brook and improve safety at the intersection of Twin Brook Lane and NH 101. The project is needed because the existing structure is nearing the end of its service life and provides Pulpit Brook increased hydraulic capacity, meeting NH stream crossing rules. The project will improve water quality by constructing two (2) stormwater BMP's adjacent to NH 101, meeting MS4 and AOT guidelines.

TRAFFIC IMPLICATION: The project will maintain two-way traffic at all times along NH 101. The proposed bridge will be constructed in two phases. A temporary traffic diversion/widening will be used to accommodate two-way traffic during the first phase of the bridge construction (traffic to be returned to the NH 101 roadway for phase 2). Short term one-lane alternating two-way traffic will be needed for critical work operations, during non-peak traffic hours, utilizing Uniformed Officers with Vehicles, with approval of the Contract Administrator (CA). Traffic will be allowed to travel on unpaved surfaces on NH 101 for a maximum of 12 calendar days, as approved by the CA.

FINAL COMPLETION DATE: July 14, 2023.

BEDFORD - NH 101 OVER PULPIT BROOK

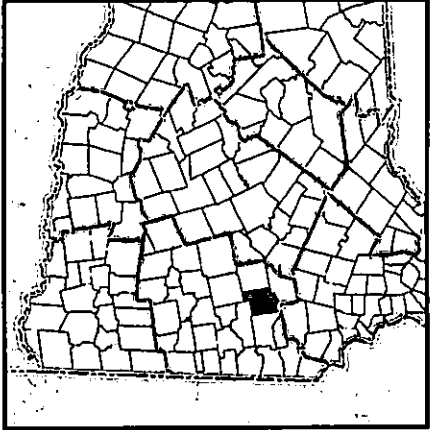


LEGEND

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

New Hampshire
DOT
 Department of Transportation

State #: 13692C
 Federal #: X-A004(254)
LOCATION MAP



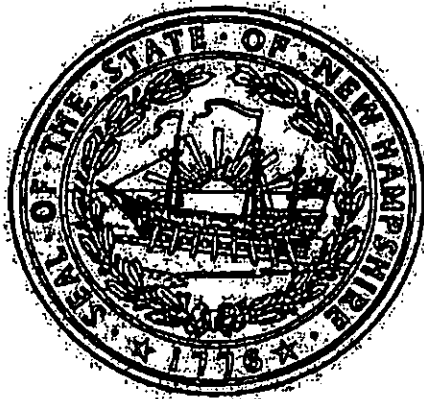
State of New Hampshire
Department of State

CERTIFICATE

I, William M. Gardner, Secretary of State of the State of New Hampshire, do hereby certify that R. M. PIPER, INC. is a New Hampshire Profit Corporation registered to transact business in New Hampshire on September 21, 1982. I further certify that all fees and documents required by the Secretary of State's office have been received and is in good standing as far as this office is concerned.

Business ID: 49646

Certificate Number: 0005342149



IN TESTIMONY WHEREOF,

I hereto set my hand and cause to be affixed
the Seal of the State of New Hampshire,
this 7th day of April A.D. 2021.

A handwritten signature in black ink, appearing to read "William M. Gardner".

William M. Gardner
Secretary of State

CERTIFICATE OF VOTE

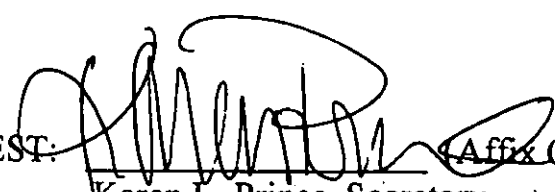
I, Karen L. Prince Hereby certify that I am duly elected
Secretary of R.M. Piper, Inc.

I hereby certify the following is a true copy of a vote taken at a meeting
of the Board of Directors of the Corporation, duly called and held
on November 18, 2021, at which a quorum of the Board was present
and voting.

VOTED: That Richard M. Piper is duly authorized
to enter into a specific contract namely BEDFORD X-A004(254), 13692C
With State of New Hampshire, and further authorized to
Department of Transportation
execute any documents which may in his judgment be desirable or necessary to effect
the purpose of this vote.

I hereby certify that said vote has not been amended or repealed and remains
in full force and effect as of November 18, 2021, and that
Richard M. Piper is duly elected President of this
Corporation.

DATED: November 18, 2021

ATTEST:  (Affix Corp. Seal)
Karen L. Prince, Secretary



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
11/18/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER THE ROWLEY AGENCY INC. 45 Constitution Avenue P.O. Box 511 Concord NH 03302-0511	CONTACT NAME: Peggy Johnson PHONE (A/C, No, Ext): (603) 224-2562 FAX (A/C, No): (603) 224-8012 E-MAIL ADDRESS: pjohnson@rowleyagency.com	
	INSURER(S) AFFORDING COVERAGE	
INSURED State of NH DOT POB 483 Concord NH 03302-0483	INSURER A: Hanover Insurance Co. NAIC # 22292	
	INSURER B:	
	INSURER C:	
	INSURER D:	
	INSURER E:	

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	COMMERCIAL GENERAL LIABILITY			LHVD3542677	11/18/2021	11/18/2022	EACH OCCURRENCE \$ 2,000,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence) \$
	<input checked="" type="checkbox"/> Owners & Contractors						MED EXP (Any one person) \$
	<input type="checkbox"/> Protective						PERSONAL & ADV INJURY \$
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE \$ 3,000,000
	<input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						PRODUCTS - COMP/OP AGG \$
	OTHER:						\$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident) \$
	<input type="checkbox"/> ANY AUTO						BODILY INJURY (Per person) \$
	<input type="checkbox"/> ALL OWNED AUTOS	<input type="checkbox"/> SCHEDULED AUTOS					BODILY INJURY (Per accident) \$
	<input type="checkbox"/> HIRED AUTOS	<input type="checkbox"/> NON-OWNED AUTOS					PROPERTY DAMAGE (Per accident) \$
							\$
	UMBRELLA LIAB	<input type="checkbox"/> OCCUR					EACH OCCURRENCE \$
	EXCESS LIAB	<input type="checkbox"/> CLAIMS-MADE					AGGREGATE \$
	DED	RETENTION \$					\$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	<input type="checkbox"/> Y/N	N/A				PER STATUTE <input type="checkbox"/> OTH-ER <input type="checkbox"/>
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	<input type="checkbox"/>					E.L. EACH ACCIDENT \$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE \$
							E.L. DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 Bedford X-A004(254) 13692C
 Contractor: R.M. Piper Inc

CERTIFICATE HOLDER State of NH DOT POB 483 Concord, NH 03302-0483	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE Peggy Johnson/PAJ <i>Peggy A Johnson</i>