

Town of Norwich, VT
RTE. 132: 5' Diameter Aluminized Steel Pipe
Addendum #1

Addendum Date: March 04, 2026

The following items pertain to this Addendum:

1. **NOTE: A revised Base Bid Tab has been developed and is dated March 4, 2026. This revised Base Bid Tab replaces the original bid tab and is included in this Addendum No. 1. This revised bid tab should be used for bidding purposes.**
2. The photos shown at the pre-bid meeting are attached to this addendum.
3. A Stream Alteration Permit will not be required for this project.
4. Item 203.1600 shall be modified to 25 CY (from 10 CY). This line item will be for the measured quantities of the existing cast in place concrete box, headwall and ledge quantities within the following dimensions of the pipe (vertically upwards 5' each side of the center of the 5' diameter pipe from a distance of 4" below the bottom of the pipe).
5. Item 204.2500: The whole width of road shall be usable for storage of material west of the existing culvert to the driveway at 534 VT Route 132. Erosion control devices for the use of this storage shall not be part of the erosion control allowance. Please use the revised BASE Bid Tab as attached.
6. 555.3000: The pipe shall be 49' in length, 10 gauge aluminized steel with no bands.
7. 555.3000: Headwalls will be 7 gauge (not 10 gauge), hot dipped galvanized steel (inlet: 2' over the top of pipe with cutoff wall 4' below the invert); (outlet: 0.5' over the top of pipe with cutoff wall 4' below). Please use the revised BASE Bid Tab as attached.
8. Trees to be cut (only on the outlet end) will be flagged with ribbon by March 9th with a list trees and sizes to be provided in Addendum 2. These trees will need to be cut by the Contractor prior to April 1st. The contractor will complete the clearing, chipping and stumping when they mobilize to complete the work. Wood shall be offered to the landowner prior to the contractor removing it from the site.
9. The stream is intermittent and has a tendency to be dry in the summer; therefore, the contractor may have the option to pump stormwater versus installing temporary pipe during construction, providing the contractor is prepared for the possibility of a severe rain event. In either case, the contractor is responsible for maintaining all stormwater and erosion control onsite during construction.
10. The Town of Norwich is in the process of securing easements from the two adjacent landowners.
11. Traffic will be allowed to drive on the gravel prior to paving as this will likely aid in compaction.
12. The Town will be responsible for the hiring and paying a soils testing firm for gravel sieves and modified proctor curves. Any re-testing as a result of a failed sample will be deducted from the owner's payment application.
13. The Town will be responsible for the cost of the initial compaction testing of the subgrade and gravel layers. If re-testing of compaction is completed as result of a failed test, the cost will be deducted from the owner's payment application.
14. Road base materials: Borings were not completed, however, this is likely a fill area, so it is not anticipated that much ledge will be encountered.
15. Stone/gravel will not be required to be placed inside the pipe.

REMINDER: All proposals are due to the Norwich Town Hall no later than 1:00pm on Monday, March 16, 2026. There will be a public bid opening.

**INVITATION FOR BIDS
& CONTRACT DOCUMENTS
FOR
Town of Norwich, VT**

(BIDS DUE: March 16, 2026 at 1:00pm)



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**BID FORM
NORWICH
RTE. 132 CULVERT 18 REPLACEMENT (5' Dia. x 49' Aluminized Steel Pipe)**

Proposal of _____
(hereinafter called Bidder), organized and existing under the laws of the State of _____ doing business as

_____ doing business as
(a corporation, a partnership, of an individual)

To the Town of Norwich, Vermont (hereinafter called Owner)

The Bidder represents that this bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation. The bidder has not directly or indirectly induced or solicited any other bidder to submit a false bid. Bidder has not solicited or induced any person, firm or corporation to refrain from bidding and the bidder has not sought by collusion to obtain for himself any advantage over any other bidder or Owner.

It is essential that all forms that require signature as part of the final Bid Submission be filled out and signed or the Bid itself will be invalid.

The undersigned bidder proposed and agrees, if this bid is accepted, to enter into an agreement with Owner to furnish all materials and to complete all work as specified or indicated in the Contract Documents for the contract price and within the contract time indicated in this bid and in accordance with the Contract Documents.

Bidder hereby agrees to commence Work under this contract on the date of issuance of the Notice to Proceed and that the Final Completion date for this contract is **October 1st, 2026.**

Bidder acknowledges receipt of the following Addenda:

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Bidder agrees to perform all the Work described in the Contract Documents for the following schedule of prices. Unqualified bids will not be accepted.

BASE BID TAB – BASIS OF CONTRACT AWARD

VAOT ITEM	ITEM DESCRIPTION	UNIT	BID QTY	UNIT PRICE	TOTAL PRICE
201.1000	Clearing and Grubbing, Including Individual Trees & stumps Unit Price in Words: _____	LS	1	\$	\$
203.1500	Common Excavation (Modified VTRANS to Lump Sum) Unit Price in Words: _____	LS	1	\$	\$
203.1600	Solid Rock Excavation (25 CY estimated for headwall, etc) Unit Price in Words: _____	CY	25	\$	\$
203.2800	Excavation of Surfaces & Pavements(60' x 20' x .5'/27 = 22) Unit Price in Words: _____	CY	22	\$	\$
204.2500	Structure Excavation (Modified VTRANS to Lump Sum) Unit Price in Words: _____	LS	1	\$	\$
204.3000	Granular Backfill for Structures (Modified VTRANS limits) Unit Price in Words: _____	LS	1	\$	\$
301.2500	Subbase of Crushed Gravel (Course Graded) Unit Price in Words: _____	CY	125	\$	\$
301.2600	Subbase of Crushed Gravel (Fine Graded) Unit Price in Words: _____	CY	32	\$	\$
404.1100	Tack Coat, Emulsified Asphalt (if necessary) Unit Price in Words: _____	CWT	0.1	\$	\$
406.0210	Bituminous Concrete Pavement (3"), Type IIS, QA TIER 1 Unit Price in Words: _____	TON	25	\$	\$
406.0410	Bituminous Concrete Pavement (1.5"), Type IVS, QA TIER 1 Unit Price in Words: _____	TON	15	\$	\$
529.1500	Removal of Structure Unit Price in Words: _____	EA	1	\$	\$
555.3000	Aluminized Steel Pipe (5'dia., 10 gauge, 49', single length) & Headwalls/Wingwalls (7 gauge, hot dipped galvanized) Unit Price in Words: _____	LS	1	\$	\$
613.1001	Stone Fill, Type I (steep slope) Unit Price in Words: _____	CY	40	\$	\$
613.1003	Stone Fill, Type III (around wingwalls & downstream) Unit Price in Words: _____	CY	30	\$	\$
621.1080	Steel Beam Guardrail with 8 Foot Posts Unit Price in Words: _____	LF	170.5	\$	\$
621.1520	Anchor for Steel Beam Guardrail Unit Price in Words: _____	EACH	4	\$	\$

Norwich: Rte. 132 Culvert Replacement
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630.1500	Flaggers (for sign installation/removal; paving/g rail if nec.) Unit Price in Words: _____	HR	60	\$	\$
635.1100	Mobilization/Demobilization Unit Price in Words: _____	LS	1	\$	\$
641.1100	Traffic Control, All Inclusive (see attached description) Unit Price in Words: _____	LS	1	\$	\$
651.1500	Turf Establishment, Seed (4,000 SF @ 400 #/acre) Unit Price in Words: _____	SY	450	\$	\$
651.4006	Grubbing Material, 6 inch (1000 SF x.5'/27 = 60 CY) Unit Price in Words: _____	CY	60	\$	\$
651.3500	Topsoil (as necessary) Unit Price in Words: _____	CY	14	\$	\$
653.1000	Hay Mulch (4,000SF @ 2 tons/acre = 0.20 ton) Unit Price in Words: _____	TON	0.2	\$	\$
653.0300	Erosion Control Measures, Maintenance (Allowance) Modified VTRANS to Allowance (ALL)	ALL	1	\$2,000	\$2,000
653.2001	Rolled Erosion Control Product, Type 1 (2,000 SF/9=220 SY) Unit Price in Words: _____	SY	220	\$	\$
653.5500	Project Demarcation Fence (as necessary) Unit Price in Words: _____	LF	200	\$	\$
900.6000	Special Provision (Temporary drain pipe/pump) Modified VTRANS to Lump Sum (LS) Unit Price in Words: _____	LS	1	\$	\$

NOTE: Refer to item descriptions for modified pay items

Total Base Bid \$ _____

Total Base Bid Written _____

The lowest responsive and responsible bidder will be determined by the **Total Base Bid**. The above unit prices shall include all labor, materials, removal, overhead, profit, insurance, etc. to cover the finished work as specified within the Contract Documents.

Norwich: Rte. 132 Culvert Replacement

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Bid Form

By submitting this bid, a bidder certifies that it shall report in writing to the municipality any errors or inconsistency discovered in the plans, proposal, specifications, or proposal documents immediately upon discovery.

THE ABOVE PROPOSAL IS HEREBY RESPECTFULLY SUBMITTED BY:

Contractor

By Signature

Title

Business Address

City State

Date

ATTEST (Name and Signature): _____

LIST 3 REFERENCES:

- 1)
- 2)
- 3)

LS = lump sum	LU = lump unit
EA = each	CY = cubic yard
SF = square yard	LF = linear foot
SF = square feet	TON = ton
CWT = hundredweight	MGAL = thousand gallons
GAL = gallon	LB = pound
HR = hour	

BASE BID TAB – MODIFIED PAY DESCRIPTIONS

VAOT ITEM	ITEM DESCRIPTION
203.1500	<p>Common Excavation (Modified VTRANS to Lump Sum): The pay for this line item has been modified from Cubic Yards (CY) to Lump Sum (LS). This is for the excavation of the inlet material as shown by the proposed contours shifting the drainage path from the existing 24" CMP to the proposed 5' diameter pipe.</p> <p>PAID FOR AS LUMP SUM.</p>
204.2500	<p>Structure Excavation (Modified VTRANS to Lump Sum): The pay for this line item has also been modified from Cubic Yards (CY) to Lump Sum (LS). This is for the excavation for the 5' diameter pipe and the existing cast in place box/24" CMP. The estimated volume is as follows:</p> <ul style="list-style-type: none"> • 17' length (over culverts) x 40' width x 13' depth/27 = 327 CY • 20' length (slopes) x 40' width x 13' depth/27 = 385 • Cutoff walls: 20' length x 3' width x 4' depth x 2 each = 480 CF/27 = 18 CY <p>Total estimated excavation = 327 CY + 385 CY + 18 CY = 730 CY.</p> <p>NOTE: The asphalt road between the project and driveway to 534 VT Route 132 may be utilized for temporary material storage providing 1 lane is kept open for emergency access. Any erosion control required for this temporary storage will not be considered as part of the erosion control line item.</p> <p>PAID FOR AS LUMP SUM.</p>
204.3000	<p>Granular Backfill for Structures (Modified VTRANS limits): The pay for this line item has also been modified from Cubic Yards (CY) to Lump Sum (LS). Granular backfill and compaction to 95% modified proctor. Granular backfill (VTRANS Specification 704.08A) shall be installed on the outside of the pipe (above the concrete pipe haunch to the road subgrade. This is for the granular backfill from 2.5' each side of the new 5' pipe to subgrade elevation (2'- 10" below the top of pavement). Calculations are as follows:</p> <p>10' wide x 49' along pipe x 3' above the concrete = 1,470 CF/27 = 54 CY Less 2/3 pipe volume: $\frac{2}{3} \times 3.14 \times 2.5 \times 2.5 \times 49' = 640 \text{ CF}/27 = -24 \text{ CY}$ 10' wide x 40' along pipe (less outer slope areas) x 5' above the top of pipe (avg.) to subgrade = 2,000 CF/27 = 74 CY</p> <p>TOTAL: 54 CY – 24 CY + 74 CY = 104 CY compacted in place; 130 CY estimated truck measurement. Material purchased by the ton shall be at a factor of 1.9 tons/CY. 104 CY x 1.9 = 198 TON (USE 200 TON).</p> <p>PAID FOR AS LUMP SUM.</p>

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555.3000	<p>5' Dia. x 49' Aluminized Steel Pipe (10 gauge, single length pipe): This work will include all work associated with the installation of the new Aluminized Steel Pipe and wingwalls The installation of the precast box culvert shall include the following:</p> <ul style="list-style-type: none"> • Excavation for the pipe, and cut off walls (included in 204.2500 – see above). • This shall be for the placement of the preformed cutoff walls for the outlet wingwalls. • 5' diameter x 49', Aluminized Steel Pipe, 10 gauge minimum thickness, designed to HL-93 loading with 1.75' to 4' of cover. Prefabricated 7 gauge, hot dipped galvanized steel outlet wingwalls/headwall as shown on plan sheet 4. Pipe shall be a single length pipe (no joints) with pre-fabricated headwall/wingwalls on the inlet and outlet end as manufactured by Contech (or equal). • Excavator or crane for placement of the pipe and outlet wingwalls/headwall. • Setting of the pipe, cutoff walls, outlet wingwalls/headwall. • Installation of tie backs for the outlet wingwalls/headwall. • Bedding: 4" of Fine Dense Grade (or equal) capped with 2" +/- of course surepak (or equal) fine graded to within 1" or less along pipe profile. • Installation of VT Class 2 Concrete 4" under the 5' diameter pipe and 1.5' up the sides of the pipe sloping away at a 1:1 slope. See detail on sheet 5/7. The concrete shall average 11 CF/foot of pipe x 49'/27 = 20 CY. <p>The contractor shall weight down the pipe to prevent movement during concrete operations. The 10 gauge aluminized steel pipe will need to be certified by a current licensed structural engineer that it meets all design and construction standards of the current VTRANS standards and specifications.</p> <p>PAID FOR AS LUMP SUM</p>
641.1100	<p>Traffic Control, All Inclusive: A traffic Control Plan has been shown on sheet 7/7 for contractors to bid on. A summary of these signs are as follows:</p> <ul style="list-style-type: none"> • 2 SIGNS: RTE. 132 CLOSED; 0.5 MILES AHEAD; DETOUR THROUGH NORWICH (angled to traffic) • 1 SIGN: RTE. 132 CLOSED; 1 MILES AHEAD; DETOUR THROUGH NORWICH • 2 SIGNS: RTE. 132 CLOSED; 1.5 MILES AHEAD; DETOUR THROUGH NORWICH (angled to traffic) • 2 SIGNS: RTE. 132 DETOUR STRAIGHT AHEAD • 2 SIGNS: ROAD CLOSED 1000 FT • 2 SIGNS: ROAD CLOSED 500 FT • 2 SIGNS: ROAD CLOSED • JERSEY BARRIERS AND BARRICADES BLOCKING OFF INTERSECTION <p>All signs shall be reflective for night visibility. If Contractors see the need for additional signs above and beyond the attached plan, then they will be handled as a change order after the project has been awarded.</p> <p>PAID FOR AS LUMP SUM (LS)</p>
653.0300	<p>Erosion Control Measures, Maintenance (Allowance): An allowance has been carried in each bidders pay item for this work. Details of erosion control will be provided to the successful bidder. Payments will be made on time and expense based on work completed as approved by the engineer.</p> <p>PAID FOR AS AN ALLOWANCE (ALL)</p>
900.6000	<p>Special Provision (Temporary drain pipe/pump): The contractor shall maintain the existing 24" pipe as a temporary drain during construction, adding additional 24" pipe as necessary. The contractor may use a larger size to reduce flooding risks. This piping shall be removed by the contractor after the new drainage structure is prepared to accept the stream and compacted with common fill to 95% modified proctor. The hydraulic study has been attached for use by the contractor.</p> <p>PAID FOR AS LUMP SUM</p>

Norwich, VT: Rte 132 Culvert Replacement Project



Rte 132 culvert looking East.



Rte 132 culvert looking West.



View looking south



Outlet headwall



Outlet headwall



Outlet headwall



Change from the precast box to the corroded 24" CMP