



MORMON HOLLOW ROAD CULVERT REPLACEMENT
Wendell, Massachusetts



INVITATION FOR BIDS 2022 2005
Bids due MAY 5, 2022 at 2pm

ADDENDUM 4 – APRIL 28, 2022

CONTACT INFORMATION:

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AWARDING AUTHORITY:

TOWN OF WENDELL, MA

bid docs available at <http://frcog.org/bids>

413-774-3167 X104
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Engineering Plans and Specifications by:

SVE

Engineering, Planning
Landscape Architecture, Surveying
PO Box 1818
Brattleboro, VT 05302-1818

INVITATION FOR BIDS
TOWN OF WENDELL – MORMON HOLLOW ROAD CULVERT REPLACEMENT
FRCOG IFB 2022 2005

ADDENDUM 4

SVE Responses to Contractor Questions For Addendum 4
Engineer responses in red

From Virgilio 4/28/22

1. There are no bid items on the bid form for the following:

Riprap slope protection – **New pay item on Bid form Item 983.62 Riprap**

Stream bed restoration – **Item 998.1 Wetland Resource Replication**

Control of water – **Incidental to Item 141 Class A trench Excavation**

Will bid items be provided for these, or should they be incidental to another item?

2. Please provide a description for bid item 998.1 wetland resource replacement.
Item 998.1 Wetland Resource Replacement entails the restoring the culvert bottom to natural conditions. See added Spec for Item 998.1.
3. Can a detail or cross section be provided showing a cut through the new culvert and streambed? I don't see anything indicating what type or thickness of materials should be installed below the culvert.
Refer to Geotechnical engineers' recommendations found in Geotechnical Report produced by O'Reilly, Talbot, and O'kun (OTO) dated January 26, 2018. OTO recommends 12" of crushed stone beneath the culvert footings. Stream bed through culvert should be made to match existing upstream and downstream materials.
4. The description for bid item #995.011, Culvert Structure, mentions backfilling the culvert. There is also 2090 CY of ordinary fill included in bid item 150. Assuming this item is the backfill for the new culvert, is this being included twice?
Please see updated Bid Form. Excavation for the culvert is found within Item 141 Class A Trench Excavation. Contractor to refer to OTO Geotechnical Report for required backfill material requirements. If Supplemental fill is required, it will be paid for under Item 150 Ordinary Borrow. Additional excavation for Item 995.011 outside of that paid for in Item 141 Class A Trench Excavation shall in incidental to the price of Item 995.011.

From C. D. Davenport Trucking Inc. 4/26/22

Can you ask the engineer if the footings are:

CIP or Precast? **The footings for the 3-sided box culvert should be precast concrete.**

Can they produce a detail either way? **Contractor to obtain detail through pre-cast culvert vendor.**

Contractor shall refer to Geotechnical Report by OTO for recommendations for footing base material.

One Precaster will not quote the footings since there isn't enough information. **Arrow Concrete has provided quote for the 3-sided box culvert.**

From ETL on 4/26/22

1. Contract plans show Rip Rap at the headwalls. Addendum #2 removed the Rip Rap item. Please confirm where this Rip Rap is paid.

See new Bid form. Riprap has a line item now.

2. Contract plans show Gravel for the road base. Addendum #2 removed the gravel item. Please confirm where this gravel is paid.

Item 156.0 shall be used for under culvert footings and retaining/headwalls. Item 402 shall be used for gravel subbase of roadway.

3. Addendum #2 added Item 998.1 – Wetland Resource Replacement. Please provide a plan and spec for this new Item.

Spec/description provided. Item name changed to 998.1 – Wetland Resource Restoration

From ETL on 4/25/22

Please confirm that the 2:1 slope from the roadway to the headwalls get loam and seed. This is a steep slope which would typically get Rip Rap.

Yes, 2:1 slope from roadway to headwalls to be loamed and seeded. Slope to be covered by erosion control matting until vegetation takes hold.

C.D. Davenport 4/25/22

Measurement and Payment says by the square yard and the item is square foot.

See revised Measurement & Payment

Why is there only 3 trees to be removed on the bid items? Depending on what sheet the contractor looks at there is anywhere from 3-7 trees to be removed please advise. The qty of trees has been updated.

The Drawings have a riprap stabilization area on both sides of the culvert and the original bid items included rip rap. The new bid items do not. How is the rip rap paid for? Riprap has an Item on the revised Bid Form.

Please provide a spec for the Wetland Resource Area Replacement. What is to be replaced? Item has a specification/description provided now.

Warner Bros., LLC. 4/25/22

Mix Item change original 71.5 tons 4" Bituminous Concrete Pavement

New

450.23 35-ton SSC 12.5 qty rounded up to 36 ton

450.41 35-ton SBC 25 qty rounded up to 36 ton & Item # changed

Respectfully request item 450.41 be changed to 450.32 SIC 19 Item 450.41 has been changed to 450.32 SIC 19

ET&L 4/25/22

Also, he says 2 to 1 slope is not allowed by MassDOT without Riprap. It can't be done that way and it won't last which is why MassDOT does not allow it.

SVE is unaware of MassDOT not allowing 2 to 1 slopes without Riprap. A 2 to 1 slope has been used in prior projects and has held up when proper erosion control has been utilized to allow vegetative growth on the slope.

AJ Virgilio 4/22/22

A question was asked about the pavement base material not matching the bid items on the bid form. An answer was provided stating to follow OTO recommendation, which is 8" sand & gravel and 8" gravel. Can the bid form be updated to correspond to these materials and thicknesses with the proper quantities?

OTO Recommended sub-base to be accounted for as 16" sub-base layer to be bid under Item 402 Dense Graded crushed Stone for Sub-base

A question was asked about the measurement and payment being provided for the bid items. The answer provided was that we are to use mass highway standard specifications. Can the corresponding mass highway bid item numbers be provided on the bid form so we can be sure we are following the proper specifications for each item?

New updated Bid form has MassDOT Item numbers. Items with * will have supplemental specs/descriptions.

REVISED SPECIFICATIONS/DESCRIPTIONS

Item 271.48 48 Inch Pipe Removed & Stacked

The work to be performed under this Item shall consist of removing present culvert and removing from the site. Contractor shall haul removed pipe off site.

Item will be measured for by the Linear Foot of pipe removed and hauled off site.

Item will be paid for by L.F. of culvert removed and hauled off site. Excavation shall be paid for under Item 141 Class A. Trench Excavation. Backfill shall incidental to work associated with Item 995.011 Culvert Structure.

Item 685.12 Block Retaining Wall (Headwalls)

The work to be performed under this Item shall consist of the procurement, excavation, placement, backfilling of Retaining and Headwall structures in accordance with these specifications and in close conformity with the lines and grades shown on the plans or established by the Engineer.

The Contractor shall review the Geotechnical Report by O'Reilly, Talbot & Okun Engineering Associates dated January 28, 2018. Geotechnical Report shall be shared with vendor and or structural engineer for the purposes of structural design of Retaining and Headwall structures.

Contractor shall obtain a structural Retaining and Headwall design from vendor or structural engineer. Contractor shall construct Retaining and Headwall according to the specifications set forth by vender or structural engineer.

Item will be measured for payment by the Square Yard, in place, as the actual square yardage of Retaining and Headwall installed.

Item will be paid for by Square Yard of Retaining and Headwall installed, which price shall include all labor, procurement of structural design, materials, equipment, excavation, backfilling, and all incidental costs required to complete the work.

Item 995.011 Culvert Structure

The work to be performed under this Item shall consist of the procurement, excavation, placement, backfilling of culvert structure in accordance with these specifications and in close conformity with the lines and grades shown on the plans or established by the Engineer.

The Contractor shall review the Geotechnical Report by O'Reilly, Talbot & Okun Engineering Associates dated January 28, 2018.

A trench of sufficient width and depth shall be excavated so that the culvert can be installed per manufacturers specifications as well as the recommendations in the Geotechnical Report by O'Reilly, Talbot & Okun Engineering Associates dated January 26, 2018.

Contractor shall have excavated material tested to see if material meets the requirements set forth in O'Reilly, Talbot & Okun recommendations. If excavated material meets the requirements, Contractor shall re-use the excavated material for fill and backfill. Supplemental fill shall be used to replace unsuitable material found in the excavated material.

Item will be paid for as a Lump Sum, which price shall include all labor, materials, equipment, and all incidental costs required to complete the work. Excavation shall be paid for under Item 141.0 Class A Trench Excavation. Supplemental Fill to be paid for under Item 150.0 Ordinary Borrow.

Item 998.1 Wetland Resource Restoration

The work to be performed under this Item shall consist of the procurement, placement, backfilling of stream bed within the culvert structure in accordance with these specifications and in close conformity with the lines and grades shown on the plans or established by the Engineer.

Contractor shall procure material which is alike natural materials found in the existing stream bed upstream and downstream of the culvert. Material shall be placed within the culvert to create a natural stream bottom through the length of the culvert.

Item will be paid for as a Lump Sum, which price shall include all labor, materials, equipment, and all incidental costs required to complete the work.

See Revised BID Form. You must use this bid form and Acknowledge Addendum 4.

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Bidder's Name

Mormon Hollow Road Culvert Replacement Project

4/29/2022

ADDENDUM 4 BID FORM

<i>ITEM #</i>	<i>QTY.</i>	<i>UNIT</i>	<i>DESCRIPTION OF ITEM</i>	<i>UNIT PRICE</i>	<i>EXTENDED BID AMOUNT</i>
				\$	\$
101.0	0.11	AC	Clearing and Gubbing		
103.0	2.00	EA	Tree Removed (Diameter Under 2 feet)		
104.0	3.00	EA	Tree Removed (Diameter Over 2 feet)		
120.1	53.00	CY	Unclassified Excavation		
141.0	460.00	CY	Class A Trench Excavation		
144.0	140.00	CY	Class B Rock Excavation		
150.0	500.00	CY	Ordinary Borrow		
156.0	105.00	Ton	Crushed Stone		
271.48*	66.00	L.F.	48 Inch Pipe Removed and Stacked		
402.0	140.00	CY	Dense Graded Crushed Stone for Sub-Base		
450.23	36.00	TON	SUPERPAVE Surface Course - 12.5 (SSC - 12.5)		
450.32	36.00	TON	SUPERPAVE Base Course - 19.0 (SIC - 19.0)		
620.12	145.00	FT	Guardrail, TL-2 (Single Faced)(8 FT Post)		
627.82	4.00	EA	Guardrail Tangent End Treatment, TL.2 (37.5 FT)		
630.20	285.00	FT	Highway Guard Removed and Discarded		
645.17	90.00	FT	72 Inch Chain Link Fence (Pipe Top Rail) Vinyl Coated (Line Post Option)		
652.07	4.00	EA	72 Inch Chain Link Fence End Post		
653.07	7.00	EA	72 Inch Chain Link Fence Corner or Intermediate Brace Post		
670.0	40.00	FT	Fence Removed And Reset		
685.12*	87.00	SY	Block Retaining Wall (Headwalls)		

748.0	1.00	LS	Mobilization		
751.0	75.00	CY	Loam Borrow		
765.0	675.00	SY	Seeding		
767.12	262.00	FT	Sediment Control Barrier		
767.90	513.00	SY	Jute Mesh		
769.0	295.00	FT	Pavement Millings Under Guard Rail		
850.41	120.00	HR	Roadway Flagger		
852.0	200.00	SF	Safety Signing For Traffic Management		
853.10	2.00	EA	Portable Breakaway Barricade Type III		
983.62	26.00	TON	Riprap		
995.011*	1.00	LS	Culvert Structure, Culvert No. 1 (6 FT x 6 FT - Three Sided Concrete Box Culvert)		
998.1*	1.00	LS	Wetland Resource Restoration		
TOTAL					\$

TOTAL CONSTRUCTION BID IN WORDS: _____

Authorized Signature  _____ Printed Name _____

Title _____ Company Name _____

Company Address _____

Phone _____ Email _____

Date _____

The Office of the Attorney General, Washington, DC, requires the following information on all bid proposals amounting to \$1,000.00 or more:

_____ Federal Tax ID Number (this number is regularly used by companies when filing their “EMPLOYER’S FEDERAL TAX RETURN, U.S.” Treasury Department Form 941

*IF A CORPORATION, INCLUDE WITH YOUR BID A CORPORATE RESOLUTION LISTING ALL DULY AUTHORIZED SIGNERS ON BEHALF OF THE CORPORATION AND CHECK HERE

*IF A PARTNERSHIP, INCLUDE A LIST OF NAMES/ADDRESSES OF ALL PARTNERS AND CHECK HERE

*IF A PROPRIETORSHIP, COMPLETELY FILL OUT INFORMATION ABOVE ONLY AND CHECK HERE

All other provisions of the IFB remain unchanged except those overwritten by this Addendum..

On behalf of the Town of Wendell
Andrea Woods, MCPPO
Franklin Regional Council of Governments

April 29, 2022