

**ADDEUNDUM #2
FITZPATRICK ROAD CULVERT REPLACEMENT
December 13, 2024**

The number of this Addendum, Addendum No. 2, must be entered in the space provided on the Bid Form.

CONTRACTOR QUESTIONS:

Question 1:

Q: Is there a local laydown area that the Contractor can use for storage during construction?

A: The Town of Grafton has some local areas that the Contractor may use for temporary storage/laydown. This will be coordinated with the Contractor following award of the project. The Contractor will be responsible for restoring all laydown areas used to the pre-construction condition following use.

Question 2:

Q: Please clarify Note #5 on Sheet 8 pertaining to Item 634.1 – Thrie Beam Guard Panel. MassDOT Specifications for double nesting thrie beam utilizes 12-gauge panels not 10-gauge panels for their reinforced guardrail at bridge connections and hazardous conditions. Typically when 10-gauge panel is specified, it would not be double nested. Double nesting 10-gauge thrie beam panels would not nest together such that splice pattern holes will line up.

A: As the thrie beam is proposed to be double nested for this project, the panels shall be fabricated using 12-gauge steel. The use of 10-gauge panels is typical in this application when not double nesting. Note #5 on Sheet 8 shall be revised as shown below.

5. THRIE BEAM GUARDRAIL STEEL SHALL BE GALVANIZED AND CONFORM TO THE AASHTO M180, CLASS B, TYPE IV AND SHALL BE ~~10 GAGE THICK. USE OF 12 GAGE THICK THRIE BEAM IS EXPRESSLY FORBIDDEN.~~
12 GAUGE THICK.

Question 3:

Q: The bridge plan view on sheet 4 points to 36" of riprap inside the culvert, in front of the inside walls; this same hatching is shown within the plan views on sheets 1 and 9A as well. However, all the bridge elevations/sections shown on sheets 1, 4, and 7 only show 48" of streambed restoration inside of the culvert. Please clarify if 36" of riprap is required inside the culvert, and if so, please provide a detail.

A: The riprap inside the culvert is intended to be paid for under Item 983.521 Streambed Restoration and should have a total thickness of 4'-0". The 36" riprap thickness is meant to be related to the riprap slopes around the wingwalls.

Question 4:

Q: In reference to bid Item 852 Safety Signing for Traffic Management, should this unit of measure be Square Feet and not Square Yards?

A: The unit of measure for Item 852 Safety Signing for Traffic Management should be Square Feet. An updated Bid Form is attached to this Addendum, See Exhibit A.

Question 5:

Q: Please provide an item for micro-milling the pavement transitions.

A: Item 415.3 Pavement Micro Milling has been added to the bid form.

Question 6:

Q: It appears there will be excess material under Item 143 Channel Excavation. What are the requirements for disposal, and please provide a disposal item if necessary.

A: Costs associated with disposal of excess channel material that is not used for Item 983.521 Streambed Restoration will be incidental to Item 143 Channel Excavation. Disposal of excess materials shall be disposed of in accordance with MassDOT Standard Specifications and Engineering Directives.

Question 7:

Q: Regarding Item 140 Bridge Excavation, please provide pay limits to clarify what work is included in the 3,200-cy bid quantity.

A: Pay limits for Item 140 Bridge Excavation include excavation required for the structure replacement below the road subgrade including, but not limited to, the culvert, footings and wingwalls.

Question 8:

Q: Bid item for Balance Stone Wall Removed and Reset is 391., Special Provision says its 691. (Which is the correct DOT Item Number) can this be fixed?

A: The correct Item is Item 691 Balance Stone Wall Removed and Rebuilt.

Question 9:

Q: Confirm there are no plantings to be installed in the inland wetland restoration? If so, can a list of the required plants with quantities of each be provided?

A: No specific plantings are required per the Contract unless directed by the Wetland Specialist or by the Conservation Commission to achieve 75% cover of wetland plant species.

Question 10:

Q: What flow rate was used to design the by-pass 6" pump shown on the dewatering plan?

A: The Control of Water plan provided in the Plans is conceptual only and it is the Contractor's responsibility to submit the proposed methods and means for Control of Water for review and approval by TEC. The 6" bypass pump shown on the plans is intended to handle normal existing flow while the 42" bypass pipe shown on Sheet 9A is intended to handle the 2-year storm flow of 52 cfs. The 52 cfs flow is shown in the Temporary Coated Fabric Steel Frame Cofferdam shown on Sheet 9A.

Question 11:

Q: *What criteria will be used to review the contractors dewatering plan?*

A: The dewatering plan will be reviewed against the requirements and intent of criteria indicated in Item 991.1 CONTROL OF WATER STRUCTURE NO. G-08-061(C97).

Question 12:

Q: *Please confirm that the engineer of record will handle the "Letter from a Massachusetts registered Professional Engineer" or "As-Builts" for number 28 section II and III on page 4 of 4 in the Wetlands Permit.*

A: Yes, TEC will work with the Town and provide the PE stamped certificate of compliance required in the OOC. The "as-builts" will be coordinated between TEC and the Contractor throughout construction and can consist of red-line markups gathered during construction.

Question 13:

Q: *Geotechnical report section 5.10 – Clearing and Stripping operations, makes mention of deeper organic layers may be encountered and having to remove those. If the contractor must remove these organic layers and there will be design changes needed to SOE beyond what are show on the plans, will the contractor be compensated for additional costs via change order?*

A: TEC anticipates that full removal of the organic layers will be removed during excavation based on review of the boring logs and proposed bottom of footing elevations. If during the excavation process it is determined that the organic layers extend down far enough that the proposed footings would be bearing on them, an RFI with appropriate SK's will be provided to direct the contractor on required changes. Compensation for additional costs may be considered pending direction provided in the RFI and SK's and with the approval of the Town.

Question 14:

Q: Geotechnical report 5.20 – Construction Dewatering Operations says the following “ The use of crushed stone material as a subgrade stabilization layer below the structure foundations should be avoided to mitigate potential seepage flow through the stone layer.” Plan sheets show crushed stone under bridge foundation under the footings. Please clarify.

A: The use of crushed stone was discussed with both MassDOT and Miller Engineering & Testing and it was determined the crushed stone was acceptable for this project as the proposed structure does not include a detention/retention basin immediately upstream of the culvert.

Question 15:

Q: Geotechnical report makes mention of keeping Miller Engineering and Testing, Inc. services on during the construction for the culvert excavation and foundation work. Will the town be responsible for hiring MET, Inc.?

A: TEC will be providing part-time construction oversight throughout the duration of construction and will coordinate any issues observed during construction with Miller Engineering and Testing.

Question 16:

Q: General conditions, 4.06 Hazardous Environmental Condition at Site, C states “contractor shall not be responsible for any Hazardous Environmental condition uncovered or revealed at the site which was not show or indicate in drawings or specifications or identified in contract documents to be within the scope of the work.” Please confirm any hazardous environmental condition encountered during construction will be paid as extra work to cover any additional costs.

A: Any hazardous environmental conditions encountered during construction will be outside the lump sum scope of work and will be addressed through change orders pending approval by the Town of Grafton.

Question 17:

Q: Please confirm no analytical data testing was performed on existing soils during borings or test pits?

A: Per 3.10 of the Geotechnical Report, grain size analysis was conducted on two split-spoon samples. These can be found in Attachment C of the geotechnical report.

Question 18:

Q: Please confirm no analytical data testing was performed on existing soils during borings or test pits? If yes, please provide the testing data.

A: Per 3.10 of the Geotechnical Report, grain size analysis was conducted on two split-spoon samples.

Question 19:

Q: Is MassDOT Engineering Directive P-22-001 issued 9/23/2022 establishing procedures for stockpiling soils incorporated into this project through this project's references to MassDOT standards?

A: Yes, construction shall be completed in compliance with all MassDOT standard specifications and engineering directives. An off-site stockpile storage location will be coordinated by the Town with the Contractor for a nearby location within the Town of Grafton limits.

Question 20:

Q: Grafton Wetland Permit, page 2 of 4 under Conditions During Construction #18 states "Materials shall be stockpiled as far from the one hundred (100) foot buffer zone and riverfront area as possible" As there is no area within the project limits that is beyond 100 feet from there riverfront area, will the contractor be allowed to stockpile material on site? Will the Contractor be allowed to remove material from the site without prior testing of the soils for hazardous/environmental materials?

A: Yes, limited stockpiling will be allowed at the project site. The Town of Grafton will also work with the Contractor to provide nearby laydown and stockpiling area. Removed material may be stockpiled at the nearby laydown area prior to testing the soils. Any removed material not stockpiled at either the site or at the nearby laydown/stockpile area shall be tested in accordance with MassDOT Engineering Directive P-22-001.

PLAN HOLDER LIST:

COMPANY
MAS Building & Bridge, Inc.
Northern Construction Service, LLC
SumCo Eco-Contracting, LLC
J.L. Raymakers and Sons, Inc.
Macura Excavating
Ferreira Construction Co., Inc.
A.F. Amorello & Sons, Inc.
R. Zoppo Corp.
Baystate Shotcrete
Kodiak Corporation
Baltazar Contractors, Inc.
Projectdog, Inc.
Dodge Construction Network
Laminated Concepts Industries
D'Allessandro Corp.
T. Miozzi, LLC
Construct Connect
Ricon Construction
Foulsham Corp.
Kenefick Corp.
Bridge Rubber Bearing, LLC
Alamo Colleges District Purchasing AVING
J.H. Lynch & Sons, Inc.
21 st Century Concrete
Aqualine Utility, Inc.
Haulch Water Contracting, Inc.
K5 Corporation
William P. Davis Excavation, LLC
Blue Diamond Equipment Co.
Petroleum Engineering, Inc.
E.T.&L. Corp.
R. Bates & Sons, Inc.
P.W. Brown, Inc.
John Rocchio Corporation
On Point Construction Services
Suchocki & Son, Inc.
Western Earthworks, LLC
K.R. Rezendes, Inc.

Exhibit A - Bid Form

TOWN OF GRAFTON
FITZPATRICK ROAD CULVERT REPLACEMENT
FORM OF GENERAL BID

Proposal of _____(hereinafter called "Bidder"), organized and existing under the laws of the State of _____, doing business as _____*, to Town of Grafton, Grafton Memorial Municipal Center, 30 Providence Road, Grafton, Massachusetts (hereinafter called "Owner").

Bidder hereby proposes to perform all work for FITZPATRICK ROAD CULVERT REPLACEMENT, in strict accordance with the Contract Documents, within the time set forth therein, and at the prices stated below.

By submission of this Bid, each Bidder certifies, and in the case of a joint Bid each party thereto certifies as to his own organization, that this Bid has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this Bid with any other Bidder or with any competitor.

Bidder hereby agrees to commence work under this Contract on or before a date to be specified in the Notice to Proceed and to fully complete the project within the specified time period in accordance with Article 4 of the Contract.

Bidder acknowledges receipt of the following Addenda:

*Insert a "Corporation", a "a Partnership", or "an Individual" as applicable.

BID SCHEDULE

Bidder agrees to perform all the work described in the Contract Documents for the following unit prices or lump sums. This proposal shall be filled in by the Bidder in ink, with the unit prices written in words and numerals and the extensions shown in the "Amount" column. For complete information concerning these items, see the Specifications.

ITEM NO.	QTY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		TOTAL	
			DOLLARS	CENTS	DOLLARS	CENTS
101.	0.2	CLEARING AND GRUBBING AT _____ ACRES				
120.	200	EARTH EXCAVATION AT _____ CY				
120.1	20	UNCLASSIFIED EXCAVATION AT _____ CY				
140.	3200	BRIDGE EXCAVATION AT _____ CY				
143.	200	CHANNEL EXCAVATION AT _____ CY				
151.	15	GRAVEL BORROW AT _____ CY				
151.2	185	GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES AT _____ CY				
153.1	15	CONTROLLED DENSITY FILL – NON-EXCAVATABLE AT _____ CY				
156.	110	CRUSHED STONE AT _____ TON				
170.	165	FINE GRADING AND COMPACTING – SUBGRADE AREA AT _____ SY				
402.	6	DENSE GRADED CRUSHED STONE FOR SUB-BASE AT _____ CY				

CARRIED FORWARD _____

BROUGHT FORWARD _____

ITEM NO.	QTY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		TOTAL	
			DOLLARS	CENTS	DOLLARS	CENTS
415.3	50	PAVEMENT MICRO MILLING AT _____ SY				
443.	4	WATER FOR ROADWAY DUST CONTROL AT _____ MGAL				
450.23.	30	SUPERPAVE SURFACE COURSE – 12.5 (SSC – 12.5) AT _____ TON				
450.31	45	SUPERPAVE INTERMEDIATE COURSE – 12.5 (SIC – 12.5) AT _____ TON				
452.	40	ASPHALT EMULSION FOR TACK COAT AT _____ GAL				
453.	90	HMA JOINT SEALANT AT _____ FT				
482.3	86	SAWCUTTING ASPHALT PAVEMENT AT _____ FT				
620.12	200	GUARDRAIL, TL-2 (SINGLE FACED) AT _____ FT				
627.1	2	TRAILING ANCHORAGE AT _____ EACH				
627.82	2	GUARDRAIL TANGENT END TREATMENT, TL-2 AT _____ EACH				
628.25	4	TRANSITION TO THRIE BEAM AT _____ EACH				
630.2	280	HIGHWAY GUARD REMOVED AND DISCARDED AT _____ FT				
632.	13	GUARDRAIL POST – STEEL AT _____ EACH				

CARRIED FORWARD _____

BROUGHT FORWARD _____

ITEM NO.	QTY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		TOTAL	
			DOLLARS	CENTS	DOLLARS	CENTS
634.1	18	THRIE BEAM GUARD PANEL AT _____ EACH				
691.	85	BALANCE STONE WALL REMOVED AND REBUILT AT _____ FT				
697.2	20	FLOATING SILT FENCE AT _____ FT				
698.1	80	GEOTEXTILE FABRIC FOR STABILIZATION AT _____ SY				
698.4	170	GEOTEXTILE FOR PERMANENT EROSION CONTROL AT _____ SY				
748.	1	MOBILIZATION AT _____ LS				
751.	40	LOAM BORROW AT _____ CY				
755.35	1	INLAND WETLAND REPLICATION AREA AT _____ LS				
755.75	50	WETLAND SPECIALIST AT _____ HR				
755.76	1	WETLANDS MONITORING REPORTS AT _____ LS				
765.	240	SEEDING AT _____ SY				
767.121	370	SEDIMENT CONTROL BARRIER AT _____ FT				
767.31	240	STRAW MULCH AT _____ SY				

CARRIED FORWARD _____

BROUGHT FORWARD _____

ITEM NO.	QTY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		TOTAL	
			DOLLARS	CENTS	DOLLARS	CENTS
769.	168	PAVEMENT MILLING MULCH UNDER GUARDRAIL AT _____ FT				
833.5	9	DEMOUNTABLE REFLECTORIZED DELINEATOR - GUARDRAIL AT _____ EACH				
833.7	4	DELINEATION FOR GUARDRAIL TERMINI AT _____ EACH				
850.41	80	ROADWAY FLAGGER AT _____ HR				
852.	164	SAFETY SIGNING FOR TRAFFIC MANAGEMENT AT _____ SF				
853.1	2	PORTABLE BREAKAWAY BARRICADE TYPE III AT _____ EACH				
853.2	50	TEMPORARY BARRIER AT _____ FT				
983.1	90	RIPRAP AT _____ TON				
983.521	50	STREAMBED RESTORATION AT _____ CY				
986.2	40	MODIFIED ROCKFILL AT _____ CY				
991.1	1	CONTROL OF WATER – STRUCTURE NO. G-08-061 (C97) AT _____ LS				
995.01	1	BRIDGE STRUCTURE, BRIDGE NO. G-08-061 (C97) AT _____ LS				
999.01	1	POLICE DETAILS AT <u>TWENTY THOUSAND</u> ALLOWANCE	\$20,000	00	\$20,000	00

CARRIED FORWARD _____

ITEM NO. ITEM DESCRIPTION AND PRICE

1. Base Bid - Supply all materials, equipment and labor to complete the work as defined in the Contract Documents. The lump sum of:

Base Bid Dollars (Numerals)

Base Bid Dollars (Words)

Note:

1. All prices shall be stated in both words and numerals. In the event of a discrepancy between the price in words and the price in numerals, the words shall govern.
2. All prices shall be typewritten or written by hand in ink. Interlineation, alteration or erasure will void the bid.

Respectfully submitted:

Signature

Date

Title

Company

Address

City, State, Zip

(Seal - if Bid is by a Corporation)

Attest _____

The full names and residences of all persons interested in this Bid as principals are as follows: (In case of Corporation, include and identify President, Treasurer, Secretary, and Manager).

ATTACHMENT A

CERTIFICATE OF NON-COLLUSION

The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any person. As used in this certification, the "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.

Signature of person signing bid or proposal

Print Name

Title

Name of Organization/Business

Date

ATTACHMENT B

CERTIFICATE OF TAX COMPLIANCE

Pursuant to Massachusetts General Law, Chapter 62C, Section 49A(b):

The undersigned certifies under the pains and penalties of perjury that said property owner has complied with all laws of the Commonwealth of Massachusetts and the Town of Grafton and is current with all local, state, and federal taxes and other assessments including child support payments as required under the law.

Signature of person signing bid or proposal

Print Name

Title

Name of Organization/Business

Federal Identification Number: 04- or TIN

Date