# ADDEUNDUM #3 CONTRACT NO: 2024-04E CHESTNUT STREET OVER IPSWICH RIVER BRIDGE REPLACEMENT NORTH READING, MA 01864

Please acknowledge Addenda No. 1, 2, & 3 in your bid proposal, as acknowledgement must be entered in the space provided on the Bid Form.

#### RESPONSE TO CONTRACTOR QUESTIONS (Attachment 1): (3 pages)

#### SECTION 00300 - BID FORM (Attachment 2):

(3 pages)

Revised bid tabs (Page 00300-4)
[Added Item 180.01 – Environmental Health and Safety Program
Added Item 180.02 – Personal Protection Level C Upgrade
Added Item 180.03 – Licensed Site Professional Services]

Revised bid tabs (Page 00300-7)
[Updated Quantity for 751.7,
Changed from 10 Cubic Yards to 20 Cubic Yards]
[Added Item 755.45 – Wetland Restoration]

Revised bid tabs (Page 00300-8) [Removed Item 945.03 – 30-Inch Utility Pole Caisson] [Added Item 983.521 – Streambed Restoration]

#### SECTION 02010 – REVISED SPECIAL PROVSISIONS (Attachment 3): (12 pages)

Revised Sections 02010-26, 02010-32 & 02010-36 [Updated Special Provision for Item numbers]

Added Section for Item 755.45 [Added Special Provisions for Item 755.45]

Added Section for Item 983.521 [Added Special Provisions for Item 983.521]

#### **REVISED PLAN SHEETS (Attachment 4):**

Edited Sheets 4 &12 (2 pages)
[Clarified access paths to be built "By Others"]
[Identified areas of Wetland Restoration]

# CONTRACT NO: 2024-04E CHESTNUT STREET OVER IPSWICH RIVER BRIDGE REPLACEMENT NORTH READING, MA 01864

#### RESPONSE TO CONTRACTOR QUESTIONS (Addendum 3) January 16, 2025

From Pre-Bid Meeting on January 9, 2025:

1. Are there any work hour restrictions?

A: 7AM - 5PM Monday-Friday are North Reading's standard construction hours. However, 7AM - 9PM is allowed per local zoning ordinance. If working past 5PM or Saturday work is needed, the Contractor will need permission and oversight by the Town Engineer or his consultant, TEC. Holiday work restrictions are noted in the project manual.

2. Please provide more information for Item 945.03 at 3 Each; where are these required? what depth is required? detail for reinforcing?

A: Utility pole caissons are not the contractor's responsibility. Item 945.03 has been removed from project, see updated bid form.

3. Please add a pay item for 180.01 Environmental Health and Safety Plan; mentioned in the specifications but not included on the bid form.

A: Pay Item 180.01 has been added to bid form.

4. Please add a pay item for 180.02 Personal Protection Level C Upgrade; mentioned in the specifications but not included on the bid form.

A: Pay Item 180.02 has been added to bid form.

5. Please add a pay item for 180.03 Licensed Site Professional; mentioned in the specifications but not included on the bid form.

A: Pay Item 180.03 has been added to bid form.

6. Are the roller supports, for the permanent gas line work across the new bridge, provided by the gas company?

A: National Grid will provide the non-conductive 3B support roller assemblies for both the temporary utility support and permanent gas line work across the new bridge. Contractor is responsible for providing (and pre-drilling) all steel utility supports.

7. It was mentioned during the pre-bid meeting that the overhead utility relocation work would be performed before the General Contractor mobilizes; please confirm the complete overhead utility relocation schedule.

A: Clearing / tree removal and RMLD pole re-location are anticipated to be complete prior to the general contractor mobilization. A specific schedule has not been finalized yet. Reading Municipal Light Department anticipates the poles being relocated by April 1.

8. Please confirm that the cost to the utility companies to perform their own relocations is not the responsibility of the General Contractor.

A: Costs for utility companies to perform relocations are not the responsibility of the General Contractor.

#### 9. Will the existing waterline be cut and capped by the Town?

A: No, the contractor is responsible for removing the existing water line that is no longer needed. The Town Water Dept. and Town Engineer will be available for inspections and to answer specific questions.

# 10. Does the existing waterline have gate valves that can be closed to isolate the section within the project limits?

A: The Contractor shall utilize the proposed insertion valves to isolate the water line within the project limits. The water line on Chestnut Street will be temporarily dead ended beyond the existing service for #185 Chestnut Street. The water for the service at house #185 Chestnut Street will remain and no temporary water infrastructure is required for this project.

# 11. The Construction Plans show a 12' Temp Gravel Access Path on either side of the bridge; what pay item covers the cost, installation and removal, of this temporary access path?

A: The temporary gravel access paths will be constructed by the Town, prior to the General Contractor's mobilization. The plans have been amended to label this work as "By Others", refer to amended Typical Sections within. Once the temporary access paths are no longer required, the Contractor shall repurpose this material on site, if feasible, or it shall be removed and disposed of, per Item 120. Upon completion, the temporarily disturbed areas shall be restored to match the existing conditions, the bid tabs have been amended to include Item 755.45 – Wetland Restoration. Refer to the cross sections for the proposed finish grade.

# 12. There are two large electrical boxes that stop 500' before bridge they are not marked through the bridge. What are these and do they go over the bridge?

A: These electrical boxes are RMLD Electric Manholes that run to the RMLD station located behind the Town's DPW garage. All RMLD electric infrastructure is located above ground per the contract drawings in the area of the project limits.

## 13. What is Item 903. to be used for?

A: Item 903. is to be used for the thrust blocks at proposed water fitting bends, refer to the construction details for thrust block details.

#### **PLANHOLDERS LIST**

The plan holders list (updated 1/16/2025 @ 9:30AM) has been attached, for reference.

### 2024-04E Bridge Replacement Chestnut Street over Ipswich River Plan Holders

Company Name

**Kodiak Corporation** 

Projectdog, Inc.

Northern Construction Service, LLC

Construction Dynamics, Inc.

E.T.& L. Corp.

**EJ Prescott** 

Dodge Data & Analytics

J TROPEANO, INC.

**Unified Contracting** 

MAS Building and Bridge Inc

Kinetic Demolition & Engineering, LLC

**S&R** Corporation

Brighter Horizons Environmental Corporation

J.R. Vinagro Corporation

T Ford Company, Inc.

Aqualine Utility Inc.

MacKay Construction Services

North America Procurement Council Inc., PBC

**Aptus** 

Concrete Systems, Inc.

**Dodge Construction Network** 

Island Pavement Cutting Co., Inc.

**PWXPress** 

Holcim US

R. Zoppo Corp

## BROUGHT FORWARD

30.000 (SON)	ALCOHOLD .			UNIT P	UNIT PRICE TOT			
ITEM NO.	QTY		ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	DOLLARS	CENTS	DOLLARS	CENTS	
151.2	1900	AT	GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES					
	700		PER CUBIC YARD					
		AT	CONTROLLED DENSITY FILL - NON-EXCAVATABLE					
153.1	15	270	PER CUBIC YARD					
156.	90	AT	CRUSHED STONE					
150.	,,,,	AI	PER TON					
156.1	325	AT	CRUSHED STONE FOR BRIDGE FOUNDATIONS	6				
136.1	323		PER TON				-0	
100	700	AT	FINE GRADING AND COMPACTING - SUBGRADE AREA	2 3			.3	
170.	700		PER SQUARE YARD				ur.	
	3 3	AT	ENVIRONMENTAL HEALTH AND SAFETY PROGRAM			ė.	3	
180.01	1		PER LUMP SUM					
0.00000000	60 15.610.	AT	PERSONAL PROTECTION LEVEL C UPGRADE					
180.02 10	10	0.00	PER HOURS					
180.03	10	AT	LICENSED SITE PROFESSIONAL SERVICES				3	
			PER HOURS					
	40	AT	DISPOSAL OF UNREGULATED SOIL					
181.11	20		PER TON					
10.000	50000	10 AT	DISPOSAL OF REGULATED SOIL - IN-STATE FACILITY					
181.12	10		PER TON	<b>X</b>				
	3 - 3	AT	DISPOSAL OF REGULATED SOIL - OUT-OF-STATE FACILITY				3	
181.13	10		PER TON					
		AT	DISPOSAL OF HAZARDOUS WASTE					
181.14	8	8	PER TON					
2002		AT	STONE FOR PIPE ENDS					
258.	5		PER SQUARE YARD					
		AT	SIDEWALK FLUME					
280.15	1	1	PER LUMP SUM					
		AT	8 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)					
302.08	220		PER FOOT					

	5		
CAR	RIED FORWARD	***	
			BT-2

BROUGHT	<b>FORWARD</b>

				UNIT P	UNIT PRICE		TOTAL	
ITEM NO.	QTY		ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	DOLLARS	CENTS	DOLLARS	CENTS	
		AT	SILT SACK					
697.1	1	.000	PER EACH					
		AT	FLOATING SILT FENCE			**		
697.2	50	~.	PER FOOT					
			GEOTEXTILE FABRIC FOR STABILIZATION				<i>-</i>	
698.1	125	AT	PER SQUARE YARD					
			GEOTEXTILE FABRIC FOR SEPARATION					
698.3	5	AT	PER SQUARE YARD					
			GEOTEXTILE FABRIC FOR PERMANENT EROSION CONTROL			*	22	
698.4	150	AL	PER SQUARE YARD	T I				
		A.T.	CEMENT CONCRETE SIDEWALK					
701.	125	AT	PER SQUARE YARD					
			CEMENT CONCRETE PEDESTRIAN CURB RAMP					
701.2	24	AT	PER SQUARE YARD					
- 1	1	AT	MOBILIZATION			**		
748.			PER LUMP SUM					
	3 - 3	AT	LOAM FOR ROADSIDES				0 0	
751.	100	100	PER CUBIC YARD					
		A.T.	COMPOST BLANKET				(1) (1)	
751.7	20	20 A1	PER CUBIC YARD					
	<del>-</del>		INLAND WETLAND REPLICATION AREA					
755.35	1	AI	PER LUMP SUM					
			WETLAND RESTORATION	<u> </u>				
755.45	300	AT	PER SQUARE YARD					
-		 1993	WETLAND SPECIALIST					
755.75	80	AT	PER HOURS	<del></del>				
	3 8	3	NPDES STORMWATER POLLUTION PREVENTION PLAN				a) (9	
756.	1	1 AT	PER LUMP SUM					
- 2	9 8	9 6	SEEDING				2	
765.	700	AT	33 <del>-</del>					
			PER SQUARE YARD					

RRIED	FORWARD		

BT-5

## BROUGHT FORWARD

	3 8	3		UNIT PRICE		TOTAL	
TEM NO.	QTY		ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	DOLLARS	CENTS	DOLLARS	CENTS
	5 8	AT	WOODLAND EDGE SHADE SEED MIX	55555110			
765.453	2		PER POUND				
			NATIVE SEEDING AND ESTABLISHMENT	2 2			
765.635	3	AT	PER POUND	-			
		100	SEDIMENT CONTROL BARRIER				
767.121	800	AT	PER FOOT	-			
	-		COMPOST MULCH OVER MODIFIED ROCK				
767.78	125	AT	PER SQUARE YARD	1			
		AT	PAVEMENT MILLING MULCH UNDER GUARD RAIL			**	
769.	475	815	PER FOOT	7			
847.1		AT	SIGN SUP (N/GUIDE)+RTE MKR W/I BRKWAY POST ASSEMBLY - STEEL	*:			
	1		PER EACH				
and the second	980.	AT	6 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)				
866,106	800		PER FOOT				
	54 E	AT	6 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)				
867.106	850		PER FOOT				
- 3	3 3	AT	TRAFFIC SIGN REMOVED AND RESET				3
874.2	1	Air	PER EACH				
		. AT	MISCELLANEOUS SIGNS REMOVED AND RESET				
874.8	1	333	PER EACH				
903.	15	AT	3000 PSI, 1.5 INCH, 470 CEMENT CONCRETE				
905.	12		PER CUBIC YARD				
983.1	375	AT	RIPRAP				
	#45 	80	PER TON				
983.521	140	AT	STREAMBED RESTORATION	_ s			
700.041	140		PER CUBIC YARD				

ARRIED FORWARD	
	BT-6

#### SECTION 02010

ITEM 280.15 SIDEWALK FLUME LUMP SUM

The work under this item shall conform to the relevant provisions of Sections 201, 280, 701, 901, and 960 of the MassDOT Standard Specifications for Highways and Bridges and the following:

This work under this item includes the construction of a sidewalk section with a drainage flume with cast iron frame & covers. The work also includes but is not limited to the preparation of subgrade and borrow foundation; fine grading, and adjustment of the first 6" of roadway gutter pavement, jointing and protective coatings.

The Contractor shall verify all dimensions for the constructability of the sidewalk flume and shall submit shop drawings for approval by the Engineer. Only after approval shall any reinforcement, frames, or covers be ordered. The Contractor shall confirm elevations at the invert-in, the roadway gutter, the invert-out, and the top of the walk. Storm water drainage is to be away from the roadway. The sidewalk flume shall be constructed such that the longitudinal slope and cross slope of the sidewalk surface and the frames & covers shall comply with ADA/AAB guidelines and shall meet and match adjacent sidewalk slopes. Covers are not bolted down.

#### References

In addition to the MassDOT Standard Specifications, the Contractor may refer to the following MassDOT Construction Standard Drawings:

E 201.6.0 Catch Basin Frame

E 203.1.0 Drop Inlets – Frame Sections and 2-3 flange 4" C.I. Frames E 203.2.0 Drop Inlets Type AF – Precast

#### Submittals

Submit shop drawings for the castings and concrete work. Provide invert elevations and flume drainage slopes, roadway cross slopes, sidewalk longitudinal and cross slopes, and top of cover elevations and slopes. Indicate non-skid treatment for the cover. Identify steel reinforcement. Identify concrete mix.

Submit weigh slips for cement concrete (if casting in place) with mix design on the slip. Submit delivery slips for steel reinforcing (if casting in place).

#### Materials

Materials are as shown on the construction detail in the plans. Otherwise, comply with MassDOT material specifications.

Castings shall comply with MassDOT Section 201.40 of the MassDOT Standard Specifications for Highways and Bridges.

SECTION 02010

#### ITEM 697.1 (Continued)

#### METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Item 697.1 will be measured and paid at the Contract unit price per each, complete in place, which price shall include all labor, materials, equipment and incidental costs required to complete the work.

No separate payment will be made for removal and disposal of the sediment from the insert, regardless of the frequency of removal and disposal, but all costs in connection therewith shall be included in the Contract unit price bid.

#### SECTION 02010

#### ITEM 751.7 (Continued)

When compost blanket is proposed for areas with planting, compost (and seed if applicable) shall be applied after planting. If compost and seed occur prior to planting, areas shall be regraded and compost and seed reapplied to the satisfaction of the Engineer and at the Contractor's expense.

#### METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Compost Blanket will be measured and paid for at the Contract unit price per Cubic Yard which price shall include all labor, materials, equipment, and all incidental costs required to complete the work of pneumatically applying compost.

Surface preparation of substrate receiving compost blanket shall be compensated under the applicable item for placement of loam, sand, ordinary borrow, wetland soil, topsoil rehandled and spread, tilled existing soil, or other specified substrate.

Seeding will be compensated for under the appropriate seeding Items

#### SECTION 02010

#### **ITEM 755.45**

#### WETLAND RESTORATION

**SQUARE YARD** 

#### DESCRIPTION

The work under this item shall conform to the relevant provisions of Subsections 120, 751, 765, 767, and 771 of the MassDOT Standard Specifications for Highways and Bridges and the following:

The work under this item shall include all labor and furnishing of materials to complete the work specified herein to protect and restore existing inland wetland areas that will be temporarily impacted as shown on the drawings and as required by the Engineer.

Inland Wetland Replication work shall be as specified and compensated under that Item 755.35.

Restoration Area shall be constructed to meet the requirements of all associated permits and certifications, including relevant performance standards of the Massachusetts Wetlands Protection Act (MGL C. 131, s40), Section 401 Water Quality Certification, and Section 404, U.S. Army Corps of Engineers General Permit.

All work shall be in coordination with an approved Wetland Specialist. Wetland Specialist qualifications and requirements shall be per Item 755.75, Wetland Specialist.

#### **SUBMITTALS - DOCUMENTS**

<u>Request for Conditional Acceptance:</u> As specified below, a letter requesting Conditional Acceptance of the work and the site conditions shall be submitted to the Engineer.

<u>Request for Final Acceptance:</u> As specified below, a letter requesting Final Acceptance of the work and the site conditions shall be submitted to the Engineer.

Request for Certificate of Compliance (Partial or Full): If applicable, request for a Certificate of Compliance shall be submitted to the Engineer for distribution to appropriate regulatory agencies as specified below.

#### ASSOCIATED ITEMS AND MATERIALS

**Compost** shall be in accordance with Subsection 751 and M1.06.0 Organic Soil Additives of the Standard Specifications. Compost shall not contain seeds, roots, stems, or other viable parts of invasive plants or other noxious plants. Off-site sources shall be identified and available for inspection prior to transport of material to the site to verify that they are likely to be free of invasive plant species, including all viable plant parts.

Compost Blanket shall be as specified under that item.

**SECTION 02010** 

#### ITEM 755.45 (Continued)

#### Seed Mix

Required submittals include:

- <u>Certificate of Materials</u> from the supplier shall be submitted and approved 30 days prior to ordering seed. Seed species listed on the certificate shall include ecotype region (i.e., *Asclepias incarnata*, PA Ecotype).
- <u>Seed tag</u> from the bag of seed used shall be submitted to the Engineer at the time of seeding.
   Seed tag shall include ecotype region and species, guaranteed percentages of purity, weed content and germination of the seed, and the net weight. Seed tag shall match the Certificate of Materials, include the name of the supplier, and date material was sent.
- <u>Bill of lading or a notarized Certificate of Compliance</u> from the Supplier serving as proof of purchase shall be submitted if requested by the Engineer. Document shall include date of sale, quantity, lot number, and address of Supplier. This shall match the seed tag. Notary shall not work for either the contractor or seed supplier.

#### SECTION 02010

## ITEM 755.45 (Continued)

Seed mix shall be: Wetland – Riprarian Mix

## Mix 765.553 Wetland - Riparian Mix

	Botanical Name	Common Name	% PLS By Weight	
Grass	Sorghastrum nutans NY Eco Schizachyrium scoparium Elymus riparius Elymus virginicus Panicum clandestinum 'Tioga Andropogon gerardii NY Eco Carex vulpinoidea Panicum virgatum Juncus effusus perennans Upland Scirpus atrovirens		14.00% 14.00% 10.00% 10.00% 9.00% 8.00% 7.00% 3.00% 2.00% Agrostis 2.00% 1.00%	S
Herb/Forb	Chamaecrista fasciculata Verbena hastata Asclepias incarnata Heliopsis helianthoides Eupatorium perfoliatum Aster umbellatus Aster prenanthoides Aster puniceus Aster novae-angliae Eupatorium maculatum Monarda fistulosa Vernonia noveboracensis	Partridge Pea Blue Vervain Swamp Milkweed Ox-Eye Sunflower Boneset Flat Topped White Aster Zig Zag Aster Aster – Swamp New England Aster Joe-pye Weed Wild Bergamot New York Ironweed	3.00% 3.00% 3.00% 2.00% 2.00%	

Fertilizers shall not be used.

Straw mulch or hydromulch shall be per Section M6 of the Standard Specifications.

#### **SECTION 02010**

#### ITEM 755.45 (Continued)

#### **Plants**

Plant material shall conform to the applicable requirements of Subsection 771, PLANTING TREES, SHRUBS AND GROUNDCOVER, of the Standard Specifications and as amended below.

Plant Certifications shall be submitted at the time of delivery and shall conform to the Standard Specifications. Plants shall be native species, not cultivars. To the extent possible, plants shall originate from the applicable EPA Level III Ecoregion. The nursery source shall certify the provenance or origin of all plants.

Plant species and sizes to be included in the Restoration Area shall be as specified on the plans or as required by the Engineer.

Requests for substitutions shall be submitted in writing to the Engineer and the Town of North Reading Conservation Commission for review at least thirty (30) days prior to planting. All proposed substitutes shall be in conformance with the requirements herein and suitable for the site conditions.

Transplanting and plant material collected from the wild is prohibited unless approved in writing by the Engineer. Plants shall be selected from certified nurseries.

Dead and failing plants shall be replaced per the requirements of Subsection 771 of the Standard Specifications.

#### Water

The Contractor shall provide water and all equipment required at no extra cost. Water shall be suitable for irrigation and free from ingredients harmful to plants and wildlife. Water from the adjacent water bodies or waterways shall not be utilized. It is the Contractor's responsibility to correct injury or damage due to the lack of water, too much water, or use of contaminated water.

#### **CONSTRUCTION METHODS & SEQUENCE**

#### **Restoration Upon Completion of Roadway Construction Work**

#### **Sediment Barriers**

If required for sediment control during Restoration work (i.e, tilling is required to restore soil), sediment barriers shall be installed along the downslope perimeter of the Restoration Area beginning and ending in the surrounding upland so that no disturbed soil can enter adjacent wetlands or waters. Sediment barriers shall be in place and approved by the Engineer prior to any soil disturbance. No work shall take place outside the barriers.

#### SECTION 02010

#### ITEM 755.45 (Continued)

#### Removal of Fill and Grading

Fill shall be removed and disposed of as specified under the respective items.

Final elevations shall be approved by the Engineer prior to soil preparation and seeding. Grading shall be incidental to this item.

Following approval of grading to elevations required, soil shall be prepared and seeded as follows.

#### Soil Tilling with Compost

Two inches of compost shall be applied over the impacted area and soil shall be tilled to a depth of 4 inches below the existing grade. Following tilling, soil shall be raked relatively smooth, or as directed. Upon approval of prepared soil, area shall be seeded and hydromulched.

#### Seeding with Compost Blanket

Application of compost blanket and seed shall be done as one application and shall not begin until the Engineer has approved the site and soil conditions. The Contractor shall notify the Engineer when raked areas are ready for inspection and application of compost blanket and seed.

Compost shall be pneumatically applied (blown on) to a depth of <u>one half to one inch</u> at the same time that seed is broadcast such that seed is covered by a light application of compost.

When planting occurs on projects with compost blankets and seed application, planting shall occur prior to application of compost and seed. Otherwise, compost and seed shall be re-applied to the satisfaction of the Engineer and at not cost to the contract.

Seed tags shall be submitted at time of seeding.

#### Planting 1

Planting shall conform to SECTION 771 PLANTING TREES, SHRUBS AND GROUNDCOVER of the Division I Standard Specifications and as amended below.

Planting Season is May 15-June 15 and September 1-November 1 unless otherwise specified in applicable permit conditions.

Restoration Area shall be planted in the dry. Plants shall be placed according to the planting details and within the range of target elevations and at the spacing shown on the Plans or, at the direction of the Engineer, in conjunction with the Wetland Specialist. Unless otherwise noted on the Plans, final plant locations shall be determined on site and located with regard to expected hydrology, plant growth characteristics, habitat desired, and water protection.

Plant material shall be installed as soon as possible after delivery. Plants stored on-site prior to installation shall be stored in the shade and watered twice daily up until time of installation. Plants showing signs of stress or compromised health may be rejected by the Engineer and shall be replaced at the Contractor's expense.

#### SECTION 02010

#### ITEM 755.45 (Continued)

Plants shall be watered as necessary to maintain healthy establishment. Plants that fail by September 1 after spring planting or by June 1 after fall planting shall be replaced at the Contractor's expense.

Plant material shall be furnished and installed as indicated including all labor, materials, plants, equipment, incidentals, re-setting of plants (frost heaves, etc), irrigation, re-planting and clean up.

#### PLANT AND SEED ESTABLISHMENT

<u>Plants</u> shall be watered as necessary to maintain healthy establishment. Plants that fail by September 1 after spring planting or by May 15 after fall planting shall be replaced within the immediate or next planting period and at the Contractor's expense.

<u>Seeding</u> that fails to establish according to the conditions of acceptance below shall be over-seeded as required by the Engineer. Washouts and channels shall be repaired and stabilized prior to overseeding. Excessive weed growth shall be pulled out by the roots or, with approval from the Engineer, cut prior to over-seeding. Soil repair and weed control are incidental to this item.

#### CONDITIONAL ACCEPTANCE OF WORK

Conditional Acceptance shall indicate approval of the wetland restoration work and agreement that work has been done according to plan or modified as approved.

Upon completion of construction, the Contractor shall submit a Request for Conditional Acceptance that includes a brief narrative from the Wetland Specialist demonstrating that the wetland restoration work was done according to plans (or how modified) and meets required permit conditions. The narrative shall include, photo-documentation of pre-construction conditions as well as soil work, planting, and seeding. Seed tags shall be submitted as part of the Request for Conditional Acceptance.

Upon receipt of a Request for Conditional Acceptance, the Engineer, the Wetland Specialist, and regulatory representative shall assess the Restoration Area and the surrounding areas. At a minimum, the following conditions shall be included in the narrative and reviewed as part of the onsite assessment of whether:

- Soil compaction has been mitigated.
- Soils are stabilized and there is no sediment in the wetland and no channeling of slopes.
- Hydrology meets performance standards and has been adequately restored.
- Specified seed mix has been seeded and seeded species in the wetland and adjacent upland show signs of good germination and healthy growth.
- Planted woody and herbaceous species (if included) meet specifications and are establishing well
- There are no invasive plants visible in the restored wetland area.
- Silt fence and non-biodegradable sediment barrier materials have been removed.

#### SECTION 02010

#### ITEM 755.45 (Continued)

Upon approval that the work meets the above conditions, the Town will issue a letter of Conditional Acceptance. If the Wetland Restoration work is not approved, the Town will issue a rejection letter requiring corrective actions. Work not approved shall be addressed by the Contractor at no extra cost.

Erosion of adjacent slopes or the flow of sediments into the wetland between Conditional and Final Acceptance shall be immediately addressed by the Contractor.

#### FINAL ACCEPTANCE OF WORK

Following one full growing season, the Contractor shall submit a Request for Final Acceptance. Submittal shall include a brief narrative of conditions. Upon receiving the Request, the Engineer, Wetland Specialist and regulatory representative shall assess the Restoration Area.

The following conditions shall be inspected and approved for acceptance and payment:

- Hydrology is functioning as intended.
- The desired seeded species are establishing well and cover 100 percent of the restoration area, excluding areas of open water, large boulders or planned bare soil.
- No sediments have entered the wetland.
- Adjacent slopes are stabilized with desirable vegetation.
- Planted woody and herbaceous species (if included) meet specifications and are establishing well.
- There are no visible invasive plants.

If the restoration work is not approved, the Town will issue a rejection letter requiring corrective action. All costs associated with corrective measures and plant replacement shall be incidental to this item with no additional compensation. Work not approved shall be addressed by the Contractor at no extra cost.

**SECTION 02010** 

#### ITEM 755.45 (Continued)

#### METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Item 755.45 will be paid for at the Contract unit price per Square Yard, which price shall include all labor, materials, compost and amendments, seed mixes, plantings, mulch, equipment, submittals, maintenance, grading, and incidental costs necessary to complete the work as required.

Payment shall be as follows:

- 50% upon completion of soil preparation and seeding
- 25% upon Conditional Acceptance
- 25% upon Final Acceptance or approval of the Engineer

Excavation of temporary fill will be paid under Item 120. Sediment Control Barrier will be paid under Item 767.121 Compost Blanket will be paid under Item 751.7 Wetland Specialist will be paid under Item 755.75 Plants will be paid under the respective items.

#### SECTION 02010

#### ITEM 983.521 STREAMBED RESTORATION CUBIC YARD

#### **GENERAL**

The work to be done under this Item shall conform to the relevant provisions of Section 983 of the Standard Specifications and the following:

This work shall consist of furnishing and placing natural streambed material on the riverbed and bank as well as inside, upstream and downstream of, the proposed bridge to set a desired channel profile, maintain a natural bed appearance, and maintain aquatic organism passage. The placement of these materials shall be as specified herein and on the Plans. The ultimate product will replicate the function and appearance of the existing stream, to the extent possible.

#### **MATERIALS**

The streambed restoration material shall be comprised of 12" layer of natural streambed material.

The streambed stone for this item shall be native material. Angular rock is preferred over round and shall be able to lock tightly together to prevent movement during high flows. Crushed Stone will not be accepted as streambed material.

#### CONSTRUCTION

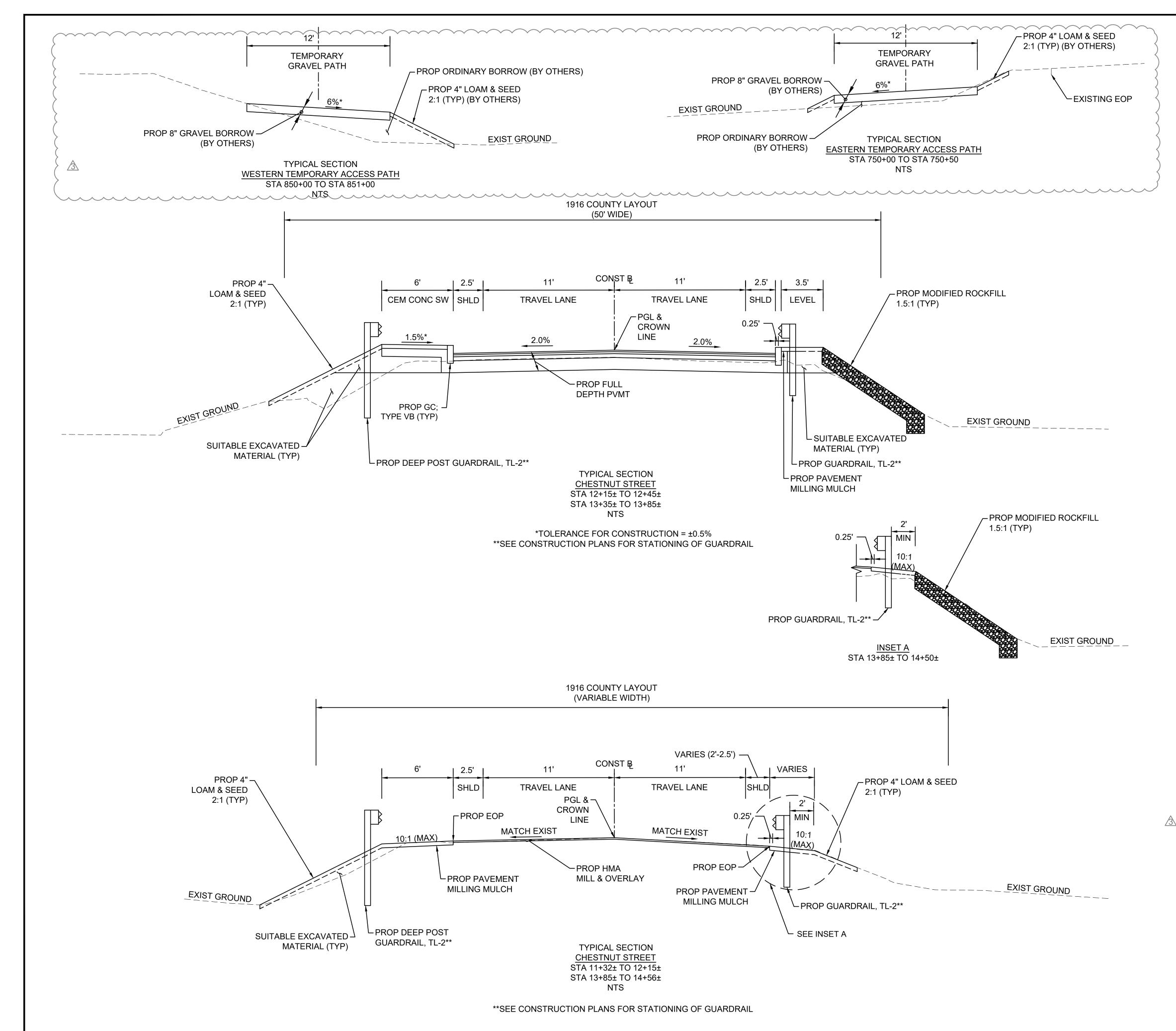
The placement of the streambed restoration materials under this Item shall not be placed until the Engineer approves the crushed stone and riprap layer along the precast structure. The Contractor shall submit to the Engineer for approval prior to the start of operations, his/her Placement Plan and Method of Placement.

#### METHOD OF MEASUREMENT

Item 983.521 Streambed Restoration shall be measured by CUBIC YARD placed.

#### **BASIS OF PAYMENT**

Item 983.521 Streambed Restoration shall be paid for at the Contract unit price per CUBIC YARD complete and in place which price shall be considered full compensation for all labor, tools, equipment, and materials necessary to rebuild the streambed.



# NORTH READING CHESTNUT STREET OVER IPSWICH RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	4	41
PROJECT FILE NO.		T1256.0	2

# **TYPICAL SECTIONS & PAVEMENT NOTES**

# **ADDENDUM #3**

# PAVEMENT NOTES

## PROPOSED HMA MILL & OVERLAY

SURFACE: 1½" SUPERPAVE BRIDGE SURFACE COURSE - 9.5 - POLYMER (SSC - B - 9.5 - P) OVER VARIABLE DEPTH (1½" MIN) PAVEMENT FINE MILLING (SEE NOTE 5)

## PROPOSED FULL DEPTH PAVEMENT

SURFACE: 1½" SUPERPAVE BRIDGE SURFACE COURSE - 9.5 - POLYMER (SSC - B - 9.5 - P) OVER 2" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC - 12.5) OVER

BASE: 4" SUPERPAVE BASE COURSE - 37.5 (SBC - 37.5) OVER

SUBBASE: 12" GRAVEL BORROW, TYPE b

## PROPOSED BRIDGE PAVEMENT

SEE BRIDGE PLANS (BRIDGE SHEET 18)

# PROPOSED CEMENT CONCRETE SIDEWALKS / PEDESTRIAN CURB RAMPS

SURFACE: 4" CEMENT CONCRETE (4000 PSI, 3/4", 610)

BASE: 8" SUITABLE EXISTING GRAVEL;

ADD GRAVEL BORROW, TYPE b AS REQUIRED

# **GENERAL PAVEMENT NOTES**

- 1. ASPHALT EMULSION FOR TACK COAT SHALL BE APPLIED BETWEEN ALL ASPHALT SURFACES AND SAWCUT JOINTS BEFORE PAVING. HMA JOINT ADHESIVE SHALL BE APPLIED TO ALL COLD JOINTS (LONGITUDINAL AND TRANSVERSE) BEFORE PAVING SURFACE COURSE. ASPHALT EMULSION FOR TACK COAT SHALL BE APPLIED AT A RATE CONSISTENT WITH STANDARD SPECIFICATION 450.43. ALL SURFACES SHALL BE CLEAN OF ALL ORGANICS, DEBRIS, AND SAND PRIOR TO PAVING.
- 2. ALL HMA SHALL BE IN ACCORDANCE WITH SECTION 450.
- 3. ASPHALT EMULSION FOR TACK COAT SHALL BE RS-1H TO RESIST TRACKING OF TACK HAUL VEHICLES.
- 4. ALL GRAVEL BORROW MEETING SPECIFICATION SHALL BE RETAINED IN PLACE, COMPACTED, AND LEVELED AS REQUIRED.
- 5. VARIABLE DEPTH MILLING AS REQUIRED TO MEET PROPOSED LINES AND GRADES WITH RESURFACING OVERLAY.
- 6. THE PROPOSED TEMPORARY GRAVEL PATHS SHALL BE CONSTRUCTED BY THE TOWN OF NORTH READING DPW IN CONJUNCTION WITH THE PROPOSED UTILITY POLE RELOCATIONS, IN ADVANCE OF THE CONTRACTOR'S MOBILIZATION. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING THE TEMPORARILY DISTURBED AREAS TO THE EXISTING CONDITIONS, REFER TO THE AMENDED WETLAND REPLICATION PLANS IDENTIFYING AREAS OF WETLAND RESTORATION. REFER TO THE CROSS SECTIONS FOR THE PROPOSED FINISH GRADE.

