

OCTOBER 16, 2019
REHABILITATION OF THE APPROACH SPANS FOR ARRIGONI BRIDGE NO. 00524
AND SAINT JOHN'S SQUARE AND MAIN STREET INTERSECTION IMPROVEMENTS
FEDERAL AID PROJECT NOS. 0066(121) & 0009(117)
STATE PROJECT NOS. 0082-0312 & 0082-0320
TOWNS OF MIDDLETOWN AND PORTLAND

ADDENDUM NO. 3

This Addendum addresses the following questions and answers contained on the “CT DOT QUESTIONS AND ANSWERS WEBSITE FOR ADVERTISED CONSTRUCTION PROJECTS”:

Question and Answer Nos.: 88, 91, 94, 99, 102, 103, 105, 107, 108, 110 & 113

SPECIAL PROVISIONS

NEW SPECIAL PROVISION

The following Special Provision is hereby added to the Contract:

- ITEM #0503898A – REMOVAL OF EXISTING STRUCTURAL STEEL

REVISED SPECIAL PROVISION

The following Special Provision is hereby deleted in its entirety and replaced with the attached like-named Special Provision:

- ITEM #0601242A – PRECAST CONCRETE DECK PANELS

CONTRACT ITEMS

NEW CONTRACT ITEMS

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QUANTITY</u>
<u>0214100</u>	<u>COMPACTED GRANULAR FILL</u>	<u>C.Y.</u>	<u>15</u>
<u>0503898A</u>	<u>REMOVAL OF EXISTING STRUCTURAL STEEL</u>	<u>CWT.</u>	<u>160</u>
<u>0703012</u>	<u>MODIFIED RIPRAP</u>	<u>C.Y.</u>	<u>15</u>

REVISED CONTRACT ITEMS

<u>ITEM NO</u>	<u>DESCRIPTION</u>	<u>ORIGINAL QUANTITY</u>	<u>REVISED QUANTITY</u>
<u>0601242A</u>	<u>PRECAST CONCRETE DECK PANELS</u>	<u>87,575 S.F.</u>	<u>83,376 S.F.</u>
<u>0603729A</u>	<u>LOCALIZED PAINT REMOVAL AND FIELD PAINTING OF EXISTING STEEL</u>	<u>7,350 S.F.</u>	<u>12,700 S.F.</u>

PLANS
REVISED PLANS

The following Plan Sheets are hereby deleted and replaced with the like-numbered Plan Sheets:

01.02.01.A3

01.04.003.A3, 01.04.008.A3, 01.04.010.A3, 01.04.011.A3, 01.04.021.A3
01.04.038.A3, 01.04.096.A3, 01.04.105.A3, 01.04.110.A3, 01.04.113.A3,
01.04.114.A3, 01.04.115.A3, 01.04.116.A3, 01.04.117.A3, 01.04.117-1.A3,
01.04.117-2.A3

The Bid Proposal Form has been revised to reflect these changes.

The Detailed Estimate Sheets do not reflect these changes.

There will be no change in the number of calendar days due to this Addendum.

The foregoing is hereby made a part of the contract.

ITEM #0503898A – REMOVAL OF EXISTING STRUCTURAL STEEL

Work under this item shall conform to the requirements of Section 5.03 amended as follows:

Article 5.03.01 - Description: Delete and replace with the following:

Work under this item shall consist of the removal and satisfactory disposal of the existing steel tie plates on the approach spans as shown on the plans or as directed by the Engineer.

Work under this item shall also consist of the removal and satisfactory disposal of the existing structural steel incidental to steel repairs and floorbeam/girder strengthening as shown on the plans or as directed by the Engineer.

This item shall include removing the various components in stages to facilitate the maintenance and protection of public traffic.

It is anticipated that some or all of the work included in this item will be performed on temporary work platforms. The installation and removal of the work platform will be considered as included in the Item No. 0100600 “Construction Access”.

Work under this item shall also consist of removing, containing, and collecting paint from all areas on steel superstructures where the Contractor will use flame cutting, arc gouging, or welding for the demolition.

Article 5.03.03 - Construction Methods: Add the following:

1 - Certification: The Contractor or subcontractor who performs paint removal is required to be certified by the Steel Structures Painting Council (SSPC) Painting Contractor Certification Program (PCCP) QP-2. The Contractor or subcontractor who performs the paint removal shall be certified for the duration of the project.

2 - Paint Removal: Prior to applying the heat of welding and/or cutting equipment to localized areas on steel superstructures, the existing paint shall be removed to a minimum of 6 inches from wherever the heat will be applied, and as directed by the Engineer.

3 - Methods of Paint Removal: Where required, the existing paint shall be removed by chemical paint removers, vacuum peening or grinding. A test patch shall be done on the existing steel to demonstrate the Contractor's proposed methods of paint removal to the satisfaction of the Engineer.

The Contractor is advised that chemical paint removers may require several days to completely remove the existing paint, especially in temperatures below 60 deg. F.

The Contractor is also advised that chemical paint removers may not be effective in removing some paints.

4 - Containment of Debris: A containment enclosure shall be erected to collect the debris of all locations where paint is removed, and wherever sawing or grinding of paint is done. This containment enclosure or enclosures shall be designed and erected to contain, as well as facilitate the collection of debris. The containment enclosure shall conform to the requirements of SSPC-Guide 61 (CON) Class 5, modified to include subarticles A) through F):

A) The containment enclosure shall extend from the bottom of the deck down to a solid work platform.

B) The tarpaulins shall be impervious and fire retardant.

C) All seams on the containment enclosures shall be lapped a minimum of 24 inches and shall be tied off at intervals not to exceed 12 inches.

D) All attachments to bridge parapets and/or the underside of the bridge deck shall be sealed to prevent the escape of dust.

E) The area between beams under the bridge deck shall be enclosed with a solid bulkhead and sealed to prevent the escape of dust.

F) Drawings and details of the containment enclosure or enclosures shall be submitted to the Engineer for review prior to any paint removal. Review of the containment enclosure by the Engineer shall in no way relieve the contractor of his responsibility for the containment enclosure.

5 - Storage of Collected Debris: All of the debris resulting from the Contractor's operations shall be contained and collected. Debris within containment enclosures shall be removed by vacuum collection prior to disassembly of the enclosures. The debris, rust and paint chips shall be stored in leakproof storage containers near the site or as ordered by the Engineer. The storage containers and storage locations shall be reviewed by the Engineer and shall be located in areas not subject to ponding. Storage containers shall be placed on pallets and closed and covered with tarps at all times except during placement, sampling, and disposal of the debris.

All work shall proceed as directed by and to the satisfaction of the Engineer in accordance to the details shown on the plans and requirements of the Special Provisions "Maintenance and Protection of Traffic" and "Prosecution and Progress", contained elsewhere in these Specifications.

Prior to initiating any of the work included under this item, the Contractor shall install temporary work platforms, as directed by the Engineer.

The coordination of the work is the responsibility of the Contractor.

The demolition of the structural steel shall be completed as designated in the "Typical Sections Stage Construction" unless directed otherwise by the Engineer.

All material removed from the superstructure shall become the property of the Contractor and shall be removed and disposed of by him.

The removal shall not result in damage to any permanent construction (new or existing) or to adjoining property. If any damage does occur, it shall be repaired by the Contractor to the satisfaction of the Engineer at no additional expense to the State.

The Contractor shall be responsible for all temporary measures including, support for all or part of the structure or individual structural element, required to maintain the structure during his operations until the demolition has been completed.

Adequate measures shall be taken by the Contractor to prevent concrete chips, tools and/or materials from dropping to areas below the structure beyond the protective shield. All debris falling on the shield and beyond shall be promptly cleaned up and removed from the site.

The Contractor shall determine and be responsible for the actual sequence of removal with the approval of the Engineer. The Contractor shall prepare and submit to the Engineer for approval working drawings, computations and written procedures in accordance with Article 1.05.02-2. The drawing shall be prepared and stamped by a professional Engineer licensed in the State of Connecticut fully depicting his proposed demolition methods and sequencing. These drawings shall include, but not be limited to complete details of the methods, materials and equipment he proposes to use for this purpose.

Article 5.03.04 - Method of Measurement: Delete the entire article and replace with the following:

This work will be measured for payment by the net weight basis per hundredweight (cwt).

Article 5.03.05 - Basis of Payment: Delete the second and third paragraphs and replace with the following:

This work will be paid for at the contract unit price per hundredweight for "Removal of Existing Structural Steel", complete including the disposal of material, and all equipment, material, tools and labor incidental thereto.

Pay Item

Pay Unit

Removal of Existing Structural Steel

cwt

ITEM #0601242A – PRECAST CONCRETE DECK PANELS

Description:

The work under this item shall consist of furnishing and installing precast concrete deck panels at the locations and in accordance with the details shown on the plans, including concrete, reinforcing, lifting inserts, and all other necessary materials and equipment to complete the work.

Materials:

Materials used in this work shall conform to the following:

The precast concrete shall meet the requirements of M.14.01-1. The concrete mix design shall be submitted to the Engineer and shall attain a minimum compressive strength (f'_c) of 5,000 psi and a minimum electrical resistivity of 29 k Ω -cm in accordance with AASHTO T 358 at 28 days.

Reinforcing Steel shall be galvanized in accordance with ASTM A123.

Threaded inserts shall be fabricated from stainless steel AISI Type 316.

Construction Methods:

The precast deck panels shall be manufactured in a concrete products plant with approved facilities with a minimum of 5 years documented experience.

The Contractor shall prepare and submit to the Engineer for review and acceptance fully detailed shop and working drawings in accordance with Article 1.05.02. Shop drawings shall show all materials, by the type and ASTM designations, and other pertinent information or as required by the Engineer.

Prior to ordering or fabricating any materials, the Contractor shall take complete and accurate field measurements. Field measurements shall be utilized to establish layout and geometry of the deck replacement.

Formwork for precast units shall use rigid molds, constructed to maintain precast uniformity in shape size and finish. Form inserts, if required, shall be utilized in accordance with manufacturers' instructions.

The work shall be performed in accordance with the details shown on the plans, the accepted shop drawings and the applicable requirements of Section 5.14 and 6.02.

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A minimum of 4 test cylinders shall be cast for each Lot. A lot is defined as every 15 cubic yards or one day production, whichever comes first. The Contractor shall make the test cylinders under supervision of a representative of the Department. The dimensions, type of cylinder mold and number of cylinders shall be specified by the Engineer. The cylinders shall be cured by the same methods employed for the curing of the deck panels and shall be used to determine when the required 28-day strength (f'c) has been achieved.

Failure of any of the 28-day test cylinders to meet 90% of the minimum compressive strength or failure of the average to meet the full minimum compressive strength requirement may be cause for rejection.

Deck panels shall be given a float finish on the top surface as specified in Subarticle 6.01.03-10.

No patching of the completed deck panels will be allowed unless permitted by the Engineer.

Details of lifting inserts or other hardware to be cast into the precast deck units shall be included in the detailed shop and working drawings submitted by the Contractor to the Engineer.

Ultra High Performance Concrete shall be placed in leveling device pockets and shear connector block outs. The material shall be in accordance with item number 0601054A.

The Contractor shall coordinate this work with other scheduled work on this project. Installation of all precast deck panels shall be according to the approved shop and working drawings. All panels after installation and prior to cast-in-place closure pours will be inspected for cracks and other visible defects. All defective elements shall either be replaced or repaired using procedures approved by the Engineer and at no additional cost to the State.

Construction equipment shall not travel or rest on any uncompleted portion of the precast deck units unless the designer of the units has evaluated the loading conditions, submitted calculations to the Engineer, and has received written approval of the proposed loading. The Contractor shall repair any damage resulting from equipment passage at no additional cost to the State.

Method of Measurement:

This work will be measured for payment by the number of square feet of precast concrete deck panels completed and accepted in place. Cast in place closure pours and joints between precast concrete deck panels will not be measured for payment under this item.

Ultra High Performance Concrete for leveling device pockets and shear connector block outs is included in the square foot deck area of deck panels and will not be measured separately for payment.

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Basis of Payment:

This work will be paid for at the Contract unit price per square foot for “Precast Concrete Deck Panels,” complete and accepted in place which price shall include the cost of all design, submittals, labor, materials, and equipment necessary to complete the work, including the furnishing, storing and protecting, transporting, unloading, and installation of all Precast Concrete Deck Panels.

Pay Item

Pay Unit

Precast Concrete Deck Panels

s.f.