# MAINE TURNPIKE AUTHORITY 

ADDENDUM NO. 1
CONTRACT 2019.10

BRIDGE REPLACEMENT<br>WARREN AVENUE OVERPASS (MILE 49.0)

## General

The final addendum is scheduled to be issued on Thursday April 18, 2019. All questions regarding Contract 2019.10 shall be submitted by noon on Tuesday April 16, 2019 to be answered in that addendum. Questions received after that time may not be answered.

## Make the following changes to the bid documents:

In the Contract Plans, REMOVE sheets 2, 4, 7, 21A, 24-27, 37, 38, 44-51, 55-57, and 92 and REPLACE with the attached revised sheets $2,4,7,21 \mathrm{~A}, 24-27,37,38,44-51,55-57$, and 92.

In the Contract Plans, ADD the attached sheet 61A.
In the Contract Documents, Proposal, REMOVE pages P-2 through P-14 and REPLACE with the attached revised pages P-2 through P-14.

In the Contract Documents, Part 2 - Special Provisions, REMOVE Special Provision Section 526 - Concrete Barrier (Temporary Concrete Barrier, Anchored) and REPLACE with the attached revised Special Provision Section 526 - Concrete Barrier (Temporary Concrete Barrier, Anchored).

In the Contract Documents, Part 2 - Special Provisions, REMOVE Special Provision Section 526 - Concrete Barrier (Temporary Concrete Barrier Type I) and REPLACE with the attached Special Provision Section 526 - Concrete Barrier (Temporary Concrete Barrier Type I - Supplied by Authority).

In the Contract Documents, Part 2 - Special Provisions, ADD the attached Special Provision Section 604 - Manholes, Inlets and Catch Basins.

In the Contract Documents, Part 2 - Special Provisions, ADD the attached Special Provision Section 604 - Manholes, Inlets and Catch Basins (Secure Catch Basin Grate).

In the Contract Documents, Part 2 - Special Provisions, REMOVE Special Provision Section 626 - Foundations, Conduit, and Junction Boxes for Highway Signing, Lighting and Signals (Light Standard Foundation) and REPLACE with the attached revised Special Provision Section 626 Foundations, Conduit, and Junction Boxes for Highway Signing, Lighting and Signals (Light Standard Foundation).

In the Contract Documents, Part 2 - Special Provisions, REMOVE Special Provision Section 627 - Pavement Markings (Temporary Raised Pavement Markers) and REPLACE with the attached revised Special Provision Section 627 - Pavement Markings (Temporary Raised Pavement Markers).

In the Contract Documents, Part 2 - Special Provisions, REMOVE Special Provision Section 655 - Electrical Work (AWG Wire) and REPLACE with the attached revised Special Provision Section 655 - Electrical Work (AWG Wire).

## Questions:

The following are questions asked at the pre-bid meeting held on April 2, 2019 or submitted to the Maine Turnpike Authority in writing. Answers to the questions are noted. Bidders shall utilize this information in preparing their bid.

Question 1: Drawings note steel to be ASTM A709, Grade 50W which is weathering steel yet all steel shall be either metalized (girders) or galvanized (cross frames). Is this a typo or is this actually a requirement of the project?
Response: $\quad$ Structural steel that shall be metalized or galvanized is not required to be weathering steel. See revised Contract Plan Sheet 92 which has been revised to reflect this response.

Question 2: What is the difference between Phases 1A and 1B?
Response: $\quad$ The primary difference between Phases 1A and 1B is the configuration of the Exit 48 Northbound On-ramp and the southerly end of the required Maintenance of Traffic. Phase 1A includes a reduced acceleration lane. See Contract Plans sheets 67 through 70 for details of both phases.

Question 3: Please clarify how temporary concrete barrier is paid?
Response: Temporary concrete barrier is paid as 2 items; Item 526.304 - Temporary Concrete Barrier, Anchored, and Item 526.306 - Temporary Concrete Barrier, Type 1 - Supplied by Authority. Note that as part of this addendum, Temporary Concrete Barrier, Type 1 is now supplied by the Authority. Previously, the Temporary Concrete Barrier, Type 1 was to be supplied by the Contractor. See Special Provision Section 526 - Temporary Concrete Barrier, Anchored and Special Provision Section 526 - Temporary Concrete Barrier, Supplied by Authority for additional information regarding each type of barrier.

Question 4: Please clarify the fee for stoppage of traffic for equipment moves?
Response: $\quad$ Stoppages for moving heavy or slow equipment across or on the travel lanes shall be no longer than 5 minutes and shall be approved by the Resident. The Contractor shall reimburse the Authority at a rate of $\$ 500$ per minute for each minute in excess of the five-minute allowance. See MTA Supplemental Specification Section 652 for additional requirements.

Question 5: Could any adjustments be made to the restrictions regarding when Contractor vehicles can merge onto the highway?
Response: $\quad$ Yes. A revised Special Provision 652 is scheduled to be issued as part of Addendum No. 2.

## Attachments

- Contract Plan Sheets 2, 4, 7, 21A, 24-27, 37, 38, 44-51, 55-57, 61A (23 pages) and 92
- Proposal Pages P-2 through P-14 (13 pages)
- Special Provision Section 526 - Concrete Barrier - (Temporary

Concrete Barrier, Anchored)

- Special Provision Section 526 - Concrete Barrier - (Temporary (3 pages) Concrete Barrier Type 1 - Supplied by Authority)
- Special Provision Section 604 - Manholes, Inlets and Catch Basins (2 pages)
- Special Provision Section 604 - Manholes, Inlets and Catch Basins (2 pages) (Secure Catch Basin Grate)
- Special Provision Section 626 - Foundations, Conduit, and Junction (2 pages)

Boxes for Highway Signing, Lighting and Signals (Light Standard Foundation)

- Special Provision Section 627 - Pavement Markings (Temporary (2 pages) Raised Pavement Markers)
- Special Provision Section 655 - Electrical Work (AWG wire) (1 page)
- Pre-Bid Agenda
- Pre-Bid Sign-In Sheet

Note: The above items shall be considered as part of the bid submittal.
The total number of pages included with this addendum is sixty-one (61).
All bidders are requested to acknowledge the receipt of the Addendum No. 1 by signing below and faxing this sheet to Nate Carll, Purchasing Department, (207) 871-7739. Bidders are also required to acknowledge receipt of this Addendum No. 1 on Page P-15 of the bid package.

Business Name

Print Name and Title

## Signature

## Date

April 11, 2019

Very truly yours,
MAINE TURNPIKE AUTHORITY

Purchasing Manager
Maine Turnpike Authority




WARREN AVENUE OVERPASS BRIDGE REPLACEMENT ESTIMATED QUANTITIES



[^0]THE GOID STAR
WARREN AVENUE OVERPASS
BRIDGE REPLACEMENT
CONSTRUCTION NOTES
MEMORIAL HIGHWAY

$\frac{\text { Povement Mill \& Overloy - NB \& SB }}{\text { MM } 493-M M 512}$ M 49.3 - MM 51.2


Note: Nortthbound Iones shown. Mirror typical for Southoound Iones.

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\(\frac{\text { ypical Section }-1 / 22^{\prime \prime} \text { Overlay }}{\text { sto. } 2442.25 \text { to } 24531 / 13}\)
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Temporary Bituminous Ramp Norto Scale

Notes:

1. A cooting of hot rubberized osphnalt ASTM D6690 Type IN shhol De opplied to oll tronsverse butt joints
except where the notch wedge is used.
2. Bituminous fock coot is required between existing povement and
3. Hot Mix Asphalf for temporary ramps will not be measured
poyment. but sholl $D$ be incidental to tor Mix Aspolt $12.5 m$.
4. Removal of temporary bituminous romos will not be measured for
poyment, out sholl be incidento to too Mix Aspholt $12.5 m m$.
5. Bituminous tock coot is required between oll lifts of povement. Bitumiousus tock coot sor requirred on olle existing
surfoces prior to plocing poroposed povement.
6. Crowns for all courses of povement shall be straigh.
7. Povement depths as shown on the plan are intended to be nominol.







THE GOLD STAR MEMORIAL HIGHWAY


Sta. $2431+50.00$ to Sta. $2432+50.00$

|  | $\underbrace{0}_{r^{\prime \prime}=10^{\prime}-0^{\prime \prime}}$ |  |  | Designed by: |  |  |  |  |  | VANASSE HANGEN BRUSTLIN, INC <br> 500 Southborough Dr. Suite 105B <br> South Portland, ME 04106 <br> TEL (207) 889-3150 <br> FAX (207) 253-5596 |  | THE GOLD STAR MEMORIAL HIGHWAY | WARREN AVENUE OVERPASS BRIDGE REPLACEMENT MAINE TURNPIKE CROSS SECTIONS |  |  |  |  |
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|  |  |  |  | CONSULTANT PROJECT MANAGER: T. Bryont |  |  |  |  |  |  |  |  |  |  |  |  |  |
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Sta. $2442+00.00$ to Sta. $2443+00.00$

|  | $\underbrace{o}_{r^{\prime}=10^{\circ}-0^{\circ}}$ |  |  | Designed by: |  |  |  |  |  | VANASSE HANGEN BRUSTLIN, INC. <br> 500 Southborough Dr. Suite 105B <br> South Portland, ME 04106 <br> TEL (207) 889-3150 FAX (207) $253-5596$ |  | MAINE TURNPIKE | THE GOLD STAR MEMORIAL HIGHWAY | WARREN AVENUE OVERPASS BRIDGE REPLACEMENT MAINE TURNPIKE CROSS SECTIONS |  |  |
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Sta. $2443+50.00$ to Sta. $2444+50.00$



Sta. $2445+00.00$ to Sta. $2446+00.00$

|  |  |  |  | Designed by: |  |  |  |  |  | VANASSE HANGEN BRUSTLIN, INC. <br> 500 Southborough Dr. Suite 105B <br> South Portland, ME 04106 TEL (207) 889-3150 FAX (207) 253-5596 | THE GOLD STAR MEMORIAL HIGHWAY |  | WARREN AVENUE OVERPASS BRIDGE REPLACEMENT MAINE TURNPIKE CROSS SECTIONS |  |  |
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Sta. $2446+50.00$ to Sta. $2447+50.00$



Sta. $2448+00.00$ to Sta. $2449+00.00$

|  |  |  |  | Designed by: |  |  |  |  |  | VANASSE HANGEN BRUSTLIN, INC. <br> 500 Southborough Dr. Suite 105B <br> South Portland, ME 04106 <br> TEL (207) 889-3150 <br> FAX (207) 253-5596 | MAINE TURNPIKE | THE GOLD STAR MEMORIAL HIGHWAY | WARREN AVENUE OVERPASS BRIDGE REPLACEMENT MAINE TURNPIKE CROSS SECTIONS |  |  |  |  |
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Sta. $2451+00.00$ to Sta. $2452+00.00$



Sta. $2452+50.00$ to Sta. $2454+00.00$

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TEMP PAVEMENT MARKINGS
NOTES:
TEMPORARY PAVEMENT MARKINGS ON MILLED PAVEMENT SHALL BE 6 " SOLID WHITE, broken white, and
SOLID YELLOW PAINT LNES.
2. IMMEDIATELY FOLLOWING THE FINAL PAVEMENT (SURFACE) IOURSE. THE CONTRACTOR SHALL INSTALL

SEGMENTS AT 40-FOOT SPACING ON CENTER FOR THE BROKEN LANE LINES.

- FINAL PAVEMENT MARKINGS SHALL BE LAID OUT BY THE CONTRACTOR FOR REVIEW AND APPROVAL BY



| Scole: |  |  |  | Designed by: |  |  |  |  |  |
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|  |  |  |  |  | By | Dote |  | By |  |
|  |  |  |  | Designed | MLG | 3/22/19 | Checked | MD | 3/22/19 |

[^1] TEL (207) 889-3150
FAX (207) $253-5596$
THE GOLD STAR


## SCHEDULE OF BID PRICES

 CONTRACT NO. 2019.10BRIDGE REPLACEMENT WARREN AVENUE OVERPASS

MILE 49.0

| Item No | Item Description | Units | Approx. Quantities | Unit Prices in Numbers |  | Bid Amount in Numbers |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Dollars | Cents | Dollars | Cents |
| 202.15 | Removing Manhole or Catch Basin | Each | 2 |  |  |  |  |
| 202.151 | Abandoning Existing Manhole or Catch Basin | Each | 2 |  | \| |  |  |
| 202.16 | Removing Existing Pipe | Linear Foot | 230 |  | I |  | $1$ |
| 202.161 | Abandoning Existing Pipe | Linear Foot | 200 |  | \| |  | i |
| 202.19 | Removing Existing Bridge | Lump Sum | 1 |  | \| |  | $1$ |
| 202.202 | Removing Pavement Surface - Mainline | Square Yard | 61500 |  | , |  |  |
| 202.2026 | Removing Pavement Surface - Drainage Paths | $\begin{gathered} \text { Square } \\ \text { Foot } \end{gathered}$ | 460 |  |  |  |  |
| 202.203 | Pavement Butt Joints | $\begin{aligned} & \text { Square } \\ & \text { Yard } \end{aligned}$ | 3000 |  | ! |  |  |
| 202.205 | Rumble Strips - Shoulder | Linear Foot | 19400 |  | \| |  |  |
| 203.20 | Common Excavation | Cubic Yard | 19050 |  |  |  |  |
| 203.24 | Common Borrow | Cubic Yard | 9950 |  | i |  | , |

$\square$
CARRIED FORWARD:

CONTRACT NO: 2019.10


BROUGHT FORWARD:

| 203.25 | Granular Borrow | Cubic Yard | 11560 | 1 | $\begin{aligned} & i \\ & i \\ & i \\ & i \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 203.33 | Lightweight Fill | Cubic Yard | 7000 | 1 | i |
| 304.10 | Aggregate Subbase Course Gravel | Cubic Yard | 8550 | \| | 1 |
| 304.14 | Aggregate Base Course - Type A | Cubic Yard | 4450 | 1 | i |
| 403.207 | Hot Mix Asphalt - 19.0 mm | Ton | 10850 | 1 | 1 |
| 403.208 | Hot Mix Asphalt - 12.5 mm | Ton | 120 | 1 | 1 |
| 403.2081 | Hot Mix Asphalt, 12.5 mm (Polymer Modified) - RAP | Ton | 6850 | 1 | i |
| 403.209 | Hot Mix Asphalt - 9.5 mm (sidewalks, drives, \& incidentals) | Ton | 34 | \| |  |
| 403.212 | Hot Mix Asphalt - 4.75mm (Shim) | Ton | 1700 | \| | 1 |
| 403.213 | Hot Mix Asphalt - 12.5mm HMA (base and intermediate course) | Ton | 2500 | ' | 1 |
| 409.15 | Bituminous Tack Coat RS-1 or RS1h- Applied | Gallon | 8950 | 1 | $i$ |
| 419.30 | Sawing Bituminous Pavement | Linear Foot | 8500 | 1 | 1 |

CARRIED FORWARD:

CONTRACT NO: 2019.10

| Item | Item Description | Units | Approx. Quantities | Unit Prices in Numbers |  | Bid Amount in Numbers |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Dollars | Cents | Dollars | Cents |

## BROUGHT FORWARD:



## CARRIED FORWARD:

CONTRACT NO: 2019.10

| Item <br> No | Item Description | Units | Approx. Quantities | Unit Prices in Numbers |  | Bid Amount in Numbers |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Dollars | Cents | Dollars | Cents |
| BROUGHT FORWARD: |  |  |  |  |  |  |  |
| 502.31 | Structural Concrete Approach Slab | Lump Sum | 1 |  |  |  |  |
| 502.72 | FRP Bridge Drain - Type F | Each | 12 |  |  |  |  |
| 503.14 | Epoxy-Coated Reinforcing Steel, Fabricated and Delivered | Pounds | 250000 |  |  |  |  |
| 503.15 | Epoxy-Coated Reinforcing Steel, Placing | Pounds | 250000 |  |  |  |  |
| 503.17 | Mechanical/Welded Splice | Each | 1560 |  |  |  |  |
| 503.26 | Stainless Steel Reinforcement, Fabricated and Delivered | Pounds | 21800 |  |  |  | 1 |
| 503.27 | Stainless Steel Reinforcement, Placing | Pounds | 21800 |  |  |  |  |
| 504.70 | Structural Steel Fabricated and Delivered | Lump Sum | 1 |  |  |  | ' |
| 504.71 | Structural Steel Erection | Lump Sum | 1 |  |  |  | , |
| 505.08 | Shear Connectors | Lump Sum | 1 |  |  |  |  |
| 506.9104 | Thermal Spray Coating (Shop Applied) | Lump Sum | 1 |  |  |  | I |
| 507.091 | Aluminum Bridge Railing, 1 Bar | Lump Sum | 1 |  |  |  |  |
| CARRIED FORWARD: |  |  |  |  |  |  |  |

CONTRACT NO: 2019.10

| Item No | Item Description | Units | Approx. Quantities | Unit Prices in Numbers |  | Bid Amount in Numbers |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Dollars | Cents | Dollars | Cents |
| BROUGHT FORWARD: |  |  |  |  |  |  |  |
| 508.14 | High Performance Waterproofing Membrane | Lump Sum | 1 |  |  |  | \\| |
| 508.15 | Membrane Waterproofing | Lump Sum | 1 |  |  |  | \\| |
| 511.091 | Temporary Earth Support Systems | Lump Sum | 1 |  |  |  |  |
| 514.06 | Curing Box for Concrete Cylinders | Each | 1 |  |  |  | I |
| 515.202 | Clear Protective Coating for Concrete Surfaces | $\begin{aligned} & \text { Square } \\ & \text { Yard } \end{aligned}$ | 850 |  |  |  |  |
| 520.23 | Asphaltic Plug Joint | Linear Foot | 242 |  |  |  | 1 |
| 524.40 | Protective Shielding - Steel Girders | Square Yard | 1940 |  |  |  | \| |
| 526.304 | Temporary Concrete Barrier, Anchored | Lump Sum | 1 |  |  |  | i |
| 526.306 | Temporary Concrete Barrier, Type 1 - Supplied by Authority | Lump Sum | 1 |  |  |  | 1 |
| 526.35 | Median Barrier | Linear Foot | 2850 |  |  |  | i |
| 526.361 | Bridge Endpost Median Barrier Transition | Each | 2 |  |  |  | i |
| 526.362 | Guardrail Median Barrier Transition | Each | 2 |  |  |  | i |
| CARRIED FORWARD: |  |  |  |  |  |  |  |

CONTRACT NO: 2019.10

| Item No | Item Description | Units | Approx. Quantities | Unit Prices in Numbers |  | Bid Amount in Numbers |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Dollars | Cents | Dollars | Cents |
| BROUGHT FORWARD: |  |  |  |  |  |  |  |
| 527.341 | Work Zone Crash Cushions -TL-3 | Unit | 4 |  | 1 |  | I |
| 603.159 | 12 inch Culvert Pipe Option III | Linear Foot | 64 |  | I |  | I |
| 603.28 | Concrete Collar for Reinforcing Concrete Pipe | Each | 2 |  | I |  |  |
| 603.431 | 36" RCP Class 5 | Linear Foot | 40 |  | i |  |  |
| 604.092 | Catch Basin Type B1-C | Each | 7.375 |  |  |  |  |
| 604.164 | Rebuilding Catch Basin | Each | 1 |  |  |  |  |
| 604.18 | Adjusting Manhole or Catch Basin to Grade | Each | 2 |  | 1 |  | \| |
| 604.247 | Catch Basin Type F5-C | Each | 5 |  | \| |  | \| |
| 604.262 | Catch Basin Type B5-C | Each | 9 |  | i |  |  |
| 604.40 | Secure Catch Basin Grate | Each | 1 |  | i |  | $1$ |
| 605.09 | 6 inch Underdrain Pipe Type B | Linear Foot | 600 |  | ' |  | i |
| 605.10 | 6 inch Underdrain Outlet | Linear Foot | 160 |  |  |  |  |
| CARRIED FORWARD: |  |  |  |  |  |  |  |

CONTRACT NO: 2019.10

| Item No | Item Description | Units | Approx. Quantities | Unit Prices in Numbers |  | Bid Amount in Numbers |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Dollars | Cents | Dollars | Cents |
| BROUGHT FORWARD: |  |  |  |  |  |  |  |
| 605.11 | 12 inch Underdrain Pipe Type C | Linear Foot | 2050 |  | 1 |  |  |
| 605.12 | 15 inch Underdrain Pipe Type C | Linear Foot | 740 |  | 1 |  | I |
| 606.1301 | 31" W-Beam Guardrail - Midway Splice (8' Steel Posts, 8" Offset Blocks, Single Faced) | Linear Foot | 1537.5 |  | \| |  |  |
| 606.1306 | 31" W-Beam Guardrail - Midway Splice Tangent Terminal | Each | 2 |  |  |  |  |
| 606.1351 | Terminal End - Anchored End 31" W-Beam Guardrail | Each | 2 |  |  |  |  |
| 606.1723 | Bridge Transition - Type III | Each | 4 |  |  |  |  |
| 606.1725 | Guardrail Transition Type III (Modified) | Each | 2 |  |  |  |  |
| 606.352 | Reflectorized Beam Guardrail Delineator | Each | 34 |  | \| |  |  |
| 606.356 | Underdrain Delineator Post | Each | 36 |  | i |  |  |
| 606.3561 | Delineator Post - Remove and Reset | Each | 18 |  | ' |  |  |
| 606.3606 | Guardrail Remove, Modify and Reset, Double Rail | Linear Foot | 175 |  |  |  | i |
| 607.17 | Chain Link Fence - 6 foot | Linear Foot | 280 |  |  |  |  |
| CARRIED FORWARD: |  |  |  |  |  |  |  |

CONTRACT NO: 2019.10

| Item No | Item Description | Units | Approx. Quantities | Unit Prices in Numbers |  | Bid Amount in Numbers |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Dollars | Cents | Dollars | Cents |
| BROUGHT FORWARD: |  |  |  |  |  |  |  |
| 607.23 | Chain Link Fence Gate | Each | 2 |  | 1 |  | i |
| 607.32 | Bracing Assembly Type I Metal Posts | Each | 10 |  | 1 |  | I |
| 607.33 | Bracing Assembly Type II Metal Posts | Each | 8 |  | \| |  |  |
| 609.11 | Vertical Curb Type 1 | Linear Foot | 640 |  | ' |  |  |
| 609.12 | Vertical Curb Type 1 - Circular | Linear Foot | 13 |  |  |  |  |
| 609.15 | Sloped Curb Type 1 | Linear Foot | 516 |  |  |  |  |
| 609.191 | Concrete Curb Type 2 | Linear Foot | 88 |  |  |  |  |
| 609.234 | Terminal Curb Type 1-4 foot | Each | 1 |  | \| |  |  |
| 609.2341 | Terminal Curb Type 1-4 ft Circular | Each | 1 |  | i |  |  |
| 609.238 | Terminal Curb Type 1-8 foot | Each | 1 |  | i |  |  |
| 610.08 | Plain Riprap | Cubic Yard | 1050 |  | ' |  | i |
| 610.181 | Temporary Stone Check Dam | Cubic Yard | 10 |  |  |  |  |
| CARRIED FORWARD: |  |  |  |  |  |  |  |

CONTRACT NO: 2019.10

| Item No | Item Description | Units | Approx. Quantities | Unit Prices in Numbers |  | Bid Amount in Numbers |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Dollars | Cents | Dollars | Cents |
| BROUGHT FORWARD: |  |  |  |  |  |  |  |
| 613.319 | Erosion Control Blanket | $\begin{aligned} & \text { Square } \\ & \text { Yard } \end{aligned}$ | 700 |  |  |  | i |
| 615.07 | Loam | Cubic Yard | 1600 |  |  |  | I |
| 618.14 | Seeding Method Number 2 | Unit | 130 |  |  |  |  |
| 618.143 | Special Seeding | Unit | 40 |  |  |  |  |
| 619.1201 | Mulch - Plan Quantity | Unit | 170 |  |  |  |  |
| 619.1202 | Temporary Mulch | Lump Sum | 1 |  |  |  | \| |
| 619.14 | Erosion Control Mix | Cubic Yard | 200 |  |  |  |  |
| 620.58 | Erosion Control Geotextile | $\begin{aligned} & \text { Square } \\ & \text { Yard } \end{aligned}$ | 1200 |  |  |  | i |
| 620.70 | HDPE Geomembrane | $\begin{aligned} & \text { Square } \end{aligned}$ Yard | 600 |  |  |  | ' |
| 624.01 | Stormwater Soil Filter Bed | Cubic Yard | 140 |  |  |  |  |
| 626.12 | Quazite Junction Box | Each | 11 |  |  |  | ' |
| 626.204 | 3" Schedule 80 PVC Conduit | Linear Foot | 2730 |  |  |  |  |
| CARRIED FORWARD: |  |  |  |  |  |  |  |



| Item No | Item Description | Units | Approx. Quantities | Unit Prices in Numbers |  | Bid Amount in Numbers |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Dollars | Cents | Dollars | Cents |
| BROUGHT FORWARD: |  |  |  |  |  |  |  |
| 631.171 | Truck - Small (Including Operator) | Hour | 50 |  | ! |  | ! |
| 631.18 | Chain Saw Rental (Including Operator) | Hour | 10 |  | \| |  | I |
| 631.22 | Front End Loader (Including Operator) | Hour | 70 |  | I |  | I |
| 631.32 | Culvert Cleaner (Including Operator) | Hour | 10 |  |  |  |  |
| 631.36 | Foreperson | Hour | 30 |  |  |  |  |
| 634.208 | Remove and Reset Light Standard | Each | 3 |  |  |  | I |
| 639.18 | Field Office, Type A | Each | 1 |  | 1 |  | \| |
| 645.105 | Remove and Stack Sign | Each | 1 |  | \| |  | i |
| 645.106 | Demount Regulatory, Warning, Confirmation and Route Marker Assembly Sign | Each | 7 |  | , |  | I |
| 645.109 | Remove and Reset Sign | Each | 4 |  | ' |  | $1$ |
| 645.271 | Regulatory, Warning, Confirmation and Route Assembly Sign, Type I | Square Foot | 97.5 |  |  |  | i |
| 645.272 | Regulatory, Warning and Bridge Number Signs, Type I Supplied by Authority | Each | 2 |  |  |  |  |
| CARRIED FORWARD: |  |  |  |  |  |  |  |




## TOTAL:

# SPECIAL PROVISION 

## SECTION 526

# CONCRETE BARRIER 

(Temporary Concrete Barrier, Anchored)

### 526.01 Description

The following paragraphs are added:
This work shall consist of furnishing, setting and removing Temporary Concrete Barrier, Anchored to the existing and new bridge decks and highway approaches as needed during phased construction to the limits on the Plans. The barrier shall have attachments allowing individual sections to be connected into a continuous barrier and provisions shall be made in the casting of the barrier for anchoring the barrier to the bridge deck.

Temporary Bi-Directional Delineators and Temporary Barrier Markers shall be installed on all temporary concrete barrier in conformance with Special Provision 526, Concrete Barrier (Temporary Concrete Barrier Type I - Supplied by Authority).

The following concrete barrier designation is added:
Temporary Concrete Barrier, Anchored. Removable concrete barrier of the shape shown on the plans that is capable of being anchored to the bridge deck or approach roadway.

### 526.02 Materials

The following paragraphs are added:
f. Adhesive anchoring material for holding deck anchors shall be selected from the Qualified Products List of Concrete Adhesive Anchor Systems for Type I Reinforcing Steel ( $>\# 9$ ) and Anchors (> $1^{\prime \prime}$ ) and shall be approved by MaineDOT's Transportation Research Division and the Bridge Program.
g. Material for filling inserts or sleeves in precast deck panels shall be a non-shrink grout selected from the Qualified Products List of Grout Materials and approved by the Resident.

The following Subsection is added:

### 526.021 Acceptance

The Resident shall have the authority to accept or reject all Temporary Concrete Barrier, Anchored used on the Project.

### 526.03 Construction Requirements

The following paragraphs are added:

All Temporary Concrete Barrier, Anchored on the bridge decks and approach roadways shall meet NCHRP 350 Test Level III (TL-3) crash test requirements. Prior to fabrication and installation of the barrier the Contractor shall submit the proposed barrier and anchorage design for approval. The proposed design shall be designed to in accordance with AASHTO LRFD Bridge Design Specifications, latest edition with all interims thereto (see Table A13.2-1 and related Provisions). The proposed barrier and anchorage design, including any required additional concrete deck reinforcement, shall be prepared and stamped by a Professional Engineer licensed in the State of Maine.

Thru-bolting of the barrier shall not be permitted to the proposed deck. Where thru-bolting of the existing deck is not permitted, anchorage shall be achieved through chemical adhesives or mechanical anchors. Where thru-bolting of the new deck is not permitted, anchorage shall be achieved through the use of mechanical anchors. In all cases, the barrier anchors shall be securely fastened and tightened prior to beginning any bridge demolition work.

Once the Temporary Concrete Barrier, Anchored has been removed, and prior to placing the second lift of pavement, all holes in the new bridge decks shall be repaired as follows:

1) Using a three inch diameter core bit, remove the area of pavement surrounding the anchor rod hole. Care shall be exercised to avoid removing or damaging the underlying high performance membrane;
2) Thoroughly clean the area to receive the repair and pack the void in the concrete deck with an approved repair mortar;
3) Once cured, coat the mortar surface and surrounding membrane with hot rubber sealant;
4) Fill the hole left by the three inch diameter pavement core with Hot Mix Asphalt, 12.5 mm Nominal Maximum Size, and thoroughly compact the repair using a hand tamp or other appropriate tools.

Temporary Concrete Barrier requiring pinning to the asphalt pavement shall not be used on the final pavement wearing surface.

### 526.04 Method of Measurement

The following paragraph is added:
Temporary Concrete Barrier, Anchored shall be measured for payment by the lump sum.
The setting, resetting, and temporary storage of concrete barrier between construction phases, if required, will not be measured separately for payment, but shall be incidental to the cost of the barrier. The anchoring of bridge barrier, removal of anchors, and the filling of voids will not be measured separately for payment, but shall be incidental to the cost of the barrier.

### 526.05 Basis of Payment

The following paragraph is added:
Temporary Concrete Barrier, Anchored will be paid for at the Contract lump sum price, complete in place. Payment shall be full compensation for furnishing, setting, anchoring, assembling, and resetting the barrier, barrier removal, temporary bi-directional delineators,
temporary barrier markers, and all other incidentals, tools, material and labor necessary to complete the work.

Payment will be made under:

## Pay Item

526.304 Temporary Concrete Barrier, Anchored

## Pay Unit

Lump Sum

## SPECIAL PROVISION

## SECTION 526

## CONCRETE BARRIER

(Temporary Concrete Barrier Type I - Supplied by Authority)

### 526.01 Description

The following paragraphs are added:
This work shall consist of loading, transporting, setting, resetting, removing, transporting and stacking Temporary Concrete Barrier Type I - Supplied by Authority. The barrier shall have attachments allowing individual sections to be connected into a continuous barrier.

The work also includes supplying connecting pins and furnishing and mounting retroreflective delineators and temporary barrier markers, per Subsection 526.02 and 526.03.

Concrete barriers supplied by Authority shall be available at the following location(s):
Maintenance Area
Linear Feet of Barrier
Kennebunk Rest Area Mile 32 Northbound
3,200 LF
Crosby Maintenance Area Mile 46 Southbound
4,600 LF
Upon substantial completion of work, the Contractor shall remove and transport the barrier back to its maintenance area of origin. All barrier shall be returned, sorted and stacked according to type in locations directed by the project Resident or maintenance area foreman.

### 526.02 Materials

The following paragraphs are added:
f. Delineators shall be bi-directional with a minimum effective reflective area of eight square inches as approved by the Resident. The reflectors shall be methyl methacrylate and the housing of acrylonitrile butadiene styrene. Color shall be in accordance with the MUTCD.
g. Temporary barrier markers shall be "Big Dog" barrier markers manufactured by Custom Products Corporation, or approved equal. Markers shall be bi-directional with a minimum effective reflective area of 96 square inches ( 48 square inches each side) as approved by the Resident. The reflectors shall meet MUTCD reflectivity requirements and shall be orange in color.

The Resident shall have the authority to accept or reject all Temporary Concrete Barrier Type I - Supplied by Authority used on the Project that does not meet the requirements of this specification.

### 526.03 Construction Requirements

The following paragraphs are added:
The Contractor shall notify the Resident prior to the scheduled pick-up and delivery of concrete barrier. No barrier shall be removed from or stacked at the Turnpike Maintenance Area without approval of the Resident.

The Contractor shall move and place barrier-utilizing methods that will not damage the barrier. Barrier that is damaged by the Contractor by failing to use proper methods shall be replaced by the Contractor at no additional cost to the Maine Turnpike Authority.

Concrete barrier supplied by the Authority consists of several different styles. Not all barriers may be compatible. The Contractor shall utilize caution when setting barrier to use identical barrier types as adjacent barrier. Non-compatible barrier that cannot be attached together shall be overlapped by a minimum of 10 feet with the blunt end on the non-traffic side of the barrier. This work will not be measured separately for payment, but shall be incidental to the concrete barrier.

Concrete barrier placed at roadway low points shall be shimmed on 1 " by 2 " by 2 ' long wood planks to allow drainage to pass under the barrier. In addition, the Resident may direct the Contractor to shim the concrete barrier at other locations to provide for proper roadway drainage. All labor, material, and equipment necessary to shim the barrier will not be measured separately for payment, but shall be incidental to the Concrete Barrier.

The removal of concrete barrier from adjacent to the travel lane may be conducted without a lane closure if it is accomplished in accordance with the following requirements:

1. Barrier is removed from the trailing end and the workmen and equipment involved in the operation are always behind the barrier. No workmen or equipment shall enter the travel lane.
2. Barrier shall be dragged away from the travel lane to at least a 30 -degree angle by the use of a cable.
3. Barrier shall be lifted no more than six inches while within 10 feet of the travel lane.

Retro-Reflective Delineators shall be mounted as follows:

1. One on top of each barrier.
2. One on the traffic side of every barrier used in a taper.
3. One on the traffic side of every other barrier at regularly spaced intervals and locations.
4. Delineators shall be installed on both sides of the barrier if barrier is used to separate opposing traffic.
5. Delineators shall be physically adhered so as to withstand the force of throw from a snow plow.
6. If more than $25 \%$ of delineators in any 50 foot section of barrier fall off for any reason, the Contractor will be responsible for reinstalling all the delineators in that run at that their own cost.
7. Contractor is required to submit the installation method for review and approval to the Resident.

Temporary barrier markers shall be mounted as follows:

1. On tangent sections, one marker on every forth barrier. In taper sections, one marker on every second barrier.
2. Delineators shall be physically adhered so as to withstand the force of throw from a snow plow.
3. If more than $25 \%$ of delineators in any 50 foot section of barrier fall off for any reason, the Contractor will be responsible for reinstalling all the delineators in that run at their own cost.
4. Contractor is required to submit the installation method for review and approval to the Resident.

### 526.04 Method of Measurement

The following paragraphs are added:
Temporary Concrete Barrier Type I - Supplied by Authority shall be measured for payment by the lump sum.

The loading, transporting, setting, resetting, removing, transporting, sorting and stacking of the barrier, the furnishing, installation and maintenance of the barrier delineators and temporary barrier markers, and furnishing and installing connector pins will not be measured separately for payment, but shall be incidental to the cost of the Barrier. Temporary storage of Concrete Barrier between construction phases, if required, will not be measured separately for payment, but shall be incidental to the cost of the Barrier. All equipment required to load, unload, transport and stack Concrete Barrier shall be supplied by the Contractor.

Any Barrier lost or damaged by the Contractor shall be replaced by the Contractor at no additional cost to the Authority.

### 526.05 Basis of Payment

The fifth paragraph is deleted and not replaced.
The following paragraphs are added:
Temporary Concrete Barrier Type I - Supplied by Authority will be paid for at the Contract lump sum price, complete in place. Such payment shall be full compensation for loading, transporting, setting, resetting, temporary storage, removing, transporting and stacking at the area designated, furnishing all materials, and all other incidentals necessary to complete the work. Temporary Concrete Barrier Type I - Supplied by Authority and all connecting pins shall remain
the property of the Authority, and shall be returned to the Turnpike Maintenance Area as designated in Subsection 526.01.

Payment of Concrete Barrier shall be based on a percentage of the work accomplished during that pay period.

Payment will be made under:

## Pay Item

526.306 Temporary Concrete Barrier, Type I - Supplied by Lump Sum Authority

## Pay Unit

 Author
## SPECIAL PROVISION

## SECTION 604

## MANHOLES, INLETS AND CATCH BASINS

### 604.01 Description

This Subsection is amended by the addition of the following:
The work locations are listed on the Drainage Summary sheets of the Plans.

### 604.02 Materials

The third paragraph should be deleted and replaced with:
Catch Basin Frames and Grates shall be as outlined below and be manufactured by EJ Company of Brockton, Massachusetts or an approved equal and shall meet or exceed the AASHTO M306 Loading Requirements.

Catch Basin Frames shall be manufactured by EJ Company of Brockton, Massachusetts (or an approved equal) with the following product numbers:

5521Z - 8 Inch Frame Product Number 00552111
5546Z - 6 Inch Frame Product Number 00554611
5544Z - 4 Inch Frame Product Number 00554411
Catch Basin Frames shall be 8" frames unless otherwise specified by the plans or approved by the resident.

Catch Basin Grates shall be a square holed grate as manufactured by EJ Company of Brockton, Massachusetts (or an approved equal) with the following product number:

5520M5 Grate Product Number 00552060
If a cascade catch basin grate is specified on the plans then it shall be manufactured by EJ Company of Brockton, Massachusetts (or an approved equal) with the following product numbers depending on the direction of flow:

5520M8 Product Number 00552084 or 5520M8 Product Number 00552085

### 604.04 Altering, Adjusting, and Rebuilding Catch Basins and Manholes

This Subsection is deleted and replaced with the following:
When adjusting the existing catch basins they shall be dismantled sufficiently to allow reconstruction in accordance with the following requirements and as shown on the Plans:

Any frame or grate damaged by the Contractor's operations shall be replaced by the Contractor at no additional cost to the Authority. Replacement frame and grate shall meet the requirements of Subsection 604.02. Damaged frames and grates shall become the property of the Contractor and shall be removed from Turnpike property.

### 604.06 Basis of Payment

The second paragraph is deleted and replaced with the following:
Excavation and backfill will not be measured separately for payment, but shall be incidental to the following pay items.

Sawing bituminous pavement will not be measured separately for payment, but shall be incidental to the related drainage items.

Payment will be made under:

| Pay Item |  | Pay Unit |
| :--- | :--- | :--- |
| 604.092 | Catch Basin Type B1-C | Each |
| 604.164 | Rebuilding Catch Basin | Each |
| 604.18 | Adjusting Manhole of Catch Basin to Grade | Each |
| 604.247 | Catch Basin Type F5-C | Each |
| 604.262 | Catch Basin Type B5-C | Each |

## SPECIAL PROVISION

## SECTION 604

# MANHOLES, INLETS, AND CATCH BASINS 

(Secure Catch Basin Grate)

### 604.01 Description

This work shall consist of removing existing catch basin grates in the existing four foot paved shoulder, or other locations noted on the plans, cleaning existing frames, furnishing and applying elastomeric sealer to frame seats, and furnishing and installing new grates. This work shall be completed prior to opening paved shoulders to traffic.

### 604.02 Materials

The following sentences are added:
Catch Basin Grates shall be a square holed grate meeting or exceed the AASHTO M306 Loading Requirements and be manufactured by EJ Company of Brockton, Massachusetts (or an approved equal) with the following product number:

5520M5 Grate Product Number 00552060
Elastomeric sealer shall be Sikaflex 1a as manufactured by Sika or an approved equal.

### 604.03 Construction Requirements

The following paragraphs are added:
After removal of an existing grate, the frame shall be cleaned to accept elastomeric sealer. Sealer shall be placed in a continuous bead over horizontal and vertical surfaces in accordance with the manufacturer's recommendations. Installed grates shall be preloaded and allowed to set for a minimum of 1.5 -hours before receiving traffic loads to assure adequate adhesion of the sealer. The old grates shall be transported to the Crosby Maintenance Area Mile 46 Southbound and stacked at a location designated by the Resident. Old grates shall remain the property of the Authority.

New grates shall remain in place at the completion of construction and shall become the property of the Maine Turnpike Authority.

The Contractor is required to have two additional grates on-site at all times for use as backup devices. Unused grates shall become the property of the Authority and shall be stacked at Crosby Maintenance Area Mile 46 Southbound.

### 604.05 Method of Measurement

The following sentence is added:

Secure Catch Basin Grate will be measured for payment by each unit secured and accepted.

### 604.06 Basis of Payment

The following paragraphs are added:
The accepted quantity of Secure Catch Basin Grate will be paid for at the Contract unit price each. This price shall be full compensation for removing the existing grate, cleaning the horizontal and vertical surfaces, applying the elastomeric sealer, furnishing and installing the new grate, transporting and stacking the old grate, and all other labor, equipment, and materials required to complete the work.

Unused backup grates stacked at Crosby Maintenance Area will be paid for at the Contract unit price each under the Secure Catch Basin Grate item.

Payment will be made under:

Pay Item
604.40 Secure Catch Basin Grate

Pay Unit

Secure Catch Basin Grate

## SPECIAL PROVISION

SECTION 626

# FOUNDATIONS, CONDUIT, AND JUNCTION BOXES <br> FOR HIGHWAY SIGNING, LIGHTING AND SIGNALS 

(Light Standard Foundation)

## General

The following paragraph is added:
Light standard foundations shall be pre-cast concrete as manufactured and shall be meet the requirements of the plans and/or light standard manufacturer for bolt circle diameter, anchor bolt thickness, anchor bolt projection, depth, and width.

The light standard foundation shall accommodate and include break away devices and shall meet all MTA and MaineDOT requirements.

## Method of Measurement

The light standard foundation shall be measured by each unit in place and accepted for existing or new light standards.

## Basis of Payment

The light standard foundation shall be paid for by each unit in place including all excavation, backfill, anchor bolts, break away devices, equipment, material and labor to complete the installation.

Payment will be made under:

## Pay Item

626.341

Light Standard Foundation

Pay Unit
Each

## SPECIAL PROVISION

## SECTION 627

## PAVEMENT MARKINGS

## (Temporary Raised Pavement Markers)

### 627.01 Description

The following sentence is added:
This work shall consist of furnishing, placing and removing temporary raised pavement markers at locations as shown on the Plans or as directed by the Resident.

### 627.02 Materials

The second paragraph is deleted and replaced with the following:
The temporary raised pavement markers shall be white or yellow one way markers (Type Tom W-1, Y-1, Grade WZ) as distributed by Davidson Plastics Co. (DAPCO), Kent, WA, or an approved equal. Colors shall conform to 2009 MUTCD requirements.

### 627.04 General

The following sentences are added:
Temporary raised pavement markers shall be used to delineate travel lanes (BWLL) after placement of the surface course (HMA 12.5 mm ).

Temporary raised pavement marker that lose reflectivity, becomes broken, dislodged or missing during the life of the Contract shall be replaced by the Contractor at no additional cost to the Authority.

The spacing and number of temporary pavement markers installed as edge lines shall be 10 feet on center..

### 627.09 Method of Measurement

The following sentence is added:
Temporary Raised Pavement Markers will be measured by each unit, complete in place, maintained and accepted.
627.10 Basis of Payment

The following paragraphs are added:
The accepted quantity of Temporary Raised Pavement Markers white and/or yellow will be paid for at the Contract price each. This price shall include all labor and materials to furnish, install, maintain, and remove the markers.

Payment will be made under:

## Pay Item

627.812 Temporary Raised Pavement Markers

## Pay Unit

Each

# SPECIAL PROVISION 

## SECTION 655

## ELECTRICAL WORK

## (AWG Wire)

The following Section is added:

### 655.01 Description

This task shall include providing and installing the AWG wire, as described herein, including grounding wires (where applicable) and other locations called for in the plans/specifications. Wire shall be installed as necessary for the complete operation of the 3 relocated light standards south of the Warren Avenue Overpass and 8 future light standards north of the Warren Avenue Overpass at the locations shown on the plans. All wire installed in conduit must be burial grade, suitable for wet locations.

All wire sizes shall be determined by the Contractor. The wire sizes shall be determined by a Licensed Electrician in the State of Maine in accordance with the National Electrical Code. The design of the wire shall assume a 3\% voltage drop. The proposed wire sizes shall be submitted to the Resident for approval prior to placing any wire.

### 655.05 Measurement of Payment

The quantity of AWG Wire will not be measured for payment, but shall be considered incidental to Pay Item 626.204 3" Schedule 80 PVC Conduit.

### 655.06 Basis of Payment

No separate payment will be made. Payment shall be considered incidental to the related lighting pay items.

# MAINE TURNPIKE AUTHORITY 

Pre-Bid Conference

CONTRACT 2019.10

BRIDGE REPLACEMENT<br>WARREN AVENUE OVERPASS<br>(MILE 49.0)

## April 2, 2019 1:00 PM

1) Location:

The general limits of work are as shown in the Contract Plans. The Warren Avenue Overpass is located near Mile 49.0 of the Maine Turnpike.

## 2) General Description:

The work consists of replacing the Warren Avenue Overpass (NB \& SB) bridges in the City of Portland, Maine. The work includes phased construction, removal of the existing bridges, construction of new concrete decks and steel girder superstructures on new integral abutments, and approach roadway work including paving, guardrail, bridge rail, median barrier, maintenance of traffic and all other work incidental thereto in accordance with the Plans and Specifications.
3) Bid:
a) April 23, 2019 at 11:00 A.M. at MTA headquarters 2360 Congress Street, Portland.
b) All bid and contractual questions shall be directed to Purchasing Department, Phone No. (207) 4828115.
c) All questions on plans and specifications shall be in writing and shall be directed to Nate Carll, Purchasing Manager, at (207) 871-7739 (fax) or email ncarll@maineturnpike.com.
4) Notification:
a) Contractor shall notify and obtain approval from the Authority prior to visiting the Project sites for field inspection. The contact person is Mr. Steve Tartre at (207) 482-8144 or startre@maineturnpike.com.
5) Construction Schedule/Prosecution of Work:
a) Construction Schedule:

- Anticipated award date: April 25, 2019
- Contract substantial completion date: November 13, 2020
- Contract completion date: June 25, 2021.
b) Prosecution of Work
- Phase 1A Construction
- Phase 1A Construction shall not exceed 25 consecutive calendar days.
- Supplemental Liquidated damages will be assessed for each calendar day beyond 25 that Phase 1A is not complete.
- Phase 1B Construction may be concurrent with Phase 1A Construction so long as the Exit 48 on-ramp acceleration area is opened to Phase 1B conditions by the end of the 25 day requirement.
- Phase 3 Construction
- Phase 3 Construction shall not exceed 30 consecutive calendar days. This includes work designated as Phase 3A and Phase 3B.
- Phase 3A shall be the default traffic control condition throughout Phase 3. Phase 3B shall only be in place at night in accordance with the Turnpike lane closure allowances included in Table A of the Section 652 special provision.
- Supplemental Liquidated damages will be assessed for each calendar day beyond 30 that Phase 3 is not complete.
- Early Opening Incentive - The Contractor will be paid a $\$ 5,000$ incentive for each complete Calendar Day that Phase 3 Construction is complete prior to the 30 consecutive calendar day allowable deadline.
- Late Opening Disincentive - The Contractor will be assessed a $\$ 5,000$ disincentive for each Calendar Day, or portion of a Calendar Day, that Phase 3 Construction is not complete beyond the 30 consecutive calendar day allowable deadline.
- Maximum Total Contract Incentives/Disincentives - The maximum combined monetary incentive is capped at $\$ 50,000$ for Phase 3 Construction. The maximum combined disincentive is not capped. These are in addition to contract liquidated damages.
- Mill and Overlay Construction
- The Mill and Overlay Construction between STA $2459+50$ and STA $2551+83$ shall be substantially complete by September 15, 2019. Once the Mill and Overlay Construction has begun, the Contractor shall work continuously to complete the work in a diligent manner.
- The Mill and Overlay Construction between STA $2453+13$ and STA $2459+50$ shall be completed as part of the final surface paving after all temporary traffic control devices associated with the bridge construction have been removed.
- Supplemental Liquidated damages on a calendar day basis in accordance with Subsection 107.8 of the Contract Book shall be assessed for each calendar day that the Mill and Overlay Construction between STA $2459+50$ and STA $2551+83$ is not complete after September 15, 2019.
- Bridge Closure Pour Placement
- The bridge deck closure pours shall be completed as part of Phase 3 Construction.
- At the Contractor's option, the bridge deck closure pours may be completed as part of Phase 2 Construction provided that the requirements outlined in Subsection 107.8 of the Contract Book are met.
c) The Contractor shall submit to the Authority a construction schedule which shall document that the Contractor has the necessary labor and equipment to work immediately and continuously at the project site once the long term lane shifts are implemented.
d) Supplemental Liquidated Damages on a calendar day basis in accordance with Subsection 107.8 shall be assessed as described in Special Provisions 107.1 and 107.1.1.

6) Maine Department of Labor - Fair Hourly Wages (Special Provision 104.3.8)
a) Highway and Earthwork wages
b) Heavy and Bridge wages
7) Lead Paint (Special Provision 105.2.4.2):
a) The Contractor shall note that the existing bridge structure does not contain lead based paint. A copy of the Lead Determination Report is attached to the Contract Book as Appendix E.
8) Maintenance During Winter Construction (Supplemental Specification 105.4.3)
a) Contractor responsible for the maintenance of erosion control and traffic control devices.
b) Contractor responsible for removal of snow and ice to maintain drainage.
c) Authority is responsible for winter road maintenance for the Maine Turnpike paved travel way open to traffic.
9) Utility Coordination (Special Provision 104.4.6)
a) There are existing aerial utilities that cross the Maine Turnpike over Span 1 of the existing bridges. These utilities will be relocated approximately 8 feet south from their current location to provide clearance between the aerial utilities and the proposed piles to be driven at Abutment 1. Central Maine Power will install a new pole east of the southern end of the new bridge and reset pole \#54 which is located west of the southern end of the new bridge. After the two poles have been set, Central Maine Power, Spectrum and FirstLight will move their lines to the new poles. This work is anticipated to be completed prior to July 1, 2019.
b) In addition to the relocation of the poles and aerial utilities, Central Maine Power has indicated that the electric lines can be de-energized as needed. The Contractor shall coordination with Central Maine Power regarding the schedule and length of time that the electric lines can be de-energized. Note that in the event of a power emergency, the electric lines may need to be re-energized at any time. Proper warning will be given to the Contractor by Central Maine Power prior to any re-energizing of the lines.
c) Portland Water District owns a 20 -inch underground water main within the project limits. This watermain crosses the Turnpike near STA $2438+67$ north of the overpass. As part of this contract the water main will be replaced, and the casing will be extended. See Water Line Details and Appendix D for more information.
10) Permit Requirements (Special Provision 105.8.2)
a) The Project is being constructed under the Maine Department of Environmental Protection (DEP) Natural Resources Protection Act Permit by Rule regulations, Section 11 - State Transportation Facilities, updated June 8, 2012. A copy of the Section 11 - State Transportation Facilities Permit by Rule regulations is attached to the Contract Book as Appendix B.
b) The Project is being permitted under Section 404 of the Clean Water Act, through the US Army Corps of Engineers Maine Programmatic General Permit, Category 2. A copy of the Army Corps of

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Engineers Maine Category 2 permit and General Permit standards and conditions is attached to the Contract Book as Appendix A.
c) The Project is subject to the requirements of the Maine Pollutant Discharge Elimination System (MPDES) General Permit for Stormwater Discharge from Construction Activity
d) A Notice of Intent (NOI), accompanied by a Limit of Disturbance (LOD) plan, will be submitted by the Authority to the DEP for coverage under the Maine Construction General Permit (MCGP).
e) This Project is also subject to the requirements of the Maine Pollutant Discharge and Elimination System (MPDES) General Permit for the Discharge of Stormwater from MTA's Municipal Separate Storm Sewer Systems (MS4), because it is located within an Urbanized Area (UA) as defined by the 2000 census by the U.S. Bureau of the Census. MS4 compliance requires all Contractors to be properly trained in Erosion and Sedimentation Control (ESC) measures (as per Special Provision Subsections 105.8.1 and 656.07) and implement measures to reduce pollutants in stormwater runoff from construction activities
f) Compliance with the erosion and sedimentation control requirements outlined in this Contract is required by the Contractor.
g) MaineDOT Best Management Practices
11) General Requirements
a) U-Turns at toll plazas and median openings not allowed. (Supplemental Specification 105.5.1)
b) Contractor access to and from the mainline shall not negatively impact mainline traffic flow. The Contractor may be required to establish lane closures to provide for safe access. Refer to Special Provision 652, Specific Project Maintenance of Traffic Requirements, for lane closure requirements and restrictions.
c) All vehicles used on the Project, including concrete delivery trucks, shall be equipped with amber flashing beacons in accordance with Supplemental Specification 652.3.4.
d) Class III safety vests must be worn at all times.
12) Traffic Control (Special Provision Section 107/652):
a) The Contractor shall complete the work as shown on the phasing and maintenance of traffic plans. Modifications to the phasing or associated maintenance of traffic plans will not be permitted unless approved by the Resident.
b) The Contractor will not be permitted to place and remove temporary pavement markings on the final lift of surface pavement unless noted in the plans. The final surface lift of pavement shall be placed utilizing temporary lane closures once all concrete barrier has been removed.
c) The Contractor shall provide proper and adequate illumination of the work area when work is occurring at night. Refer to the MTA Supplemental Specifications available on the MTA website for requirements.
d) Contractor is responsible for supplying all traffic control devices.
e) Contractor is responsible for placement, relocation, removal and maintenance of traffic control devices. Maintenance of traffic control devices is a 24-hour a day, seven days per week, responsibility. Contractor shall inspect devices as required.
f) Turnpike Lane closures
i) Two lanes of traffic flowing in each direction at all times except as permitted in Section 652. Minimum traveling width of $11^{\prime}$ required.

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ii) Requests for temporary lane closures shall be submitted a minimum of two working days in advance of scheduled closure. Requests are subject to approval by MTA.
iii) Supplemental liquidated damages shall be assessed at $\$ 1,000$ per minute for every minute that a temporary lane closure is in place outside of the allowable times.
g) Stoppages of traffic for moving heavy or slow equipment across or on the travel lanes (stoppages less than five minutes)
i) Fee of $\$ 500$ per five minutes in excess of the five-minute allowance.
ii) Requests shall be submitted two working days in advance of scheduled stoppage. Request subject to approval by MTA.
h) Warren Avenue may be fully closed and detoured between the hours of $10 \mathrm{p} . \mathrm{m}$. and $5 \mathrm{a} . \mathrm{m}$. for the removal or installation of structural steel only. Warren Avenue shall be open to traffic at all other times.
i) Flaggers along Warren Avenue will only be measured for payment when Warren Avenue traffic is reduced to a single lane with alternating two-way traffic and during the installation and removal of bridge shielding.
j) The Contractor shall provide, to the maximum extent possible, a minimum of 6 feet of right-side shoulder between November $15^{\text {th }}$ and April $1^{\text {st }}$ during construction. Additional shoulder width shall be provided by relocating or removing concrete barrier when safe to do so.
k) All signs, which do not apply to current construction activity, shall be $100 \%$ covered or removed in accordance with the plans. This includes any speed limit signs when work zone speed is in operation.

1) Traffic control devices shall be NCHRP 350 compliant.

## 13) Specific Contract Items

a) Special Provision 203 Lightweight Fill. Lightweight Fill shall be placed as shown in the Contract Plans and as specified in Special Provision 203.
b) Special Provision 511 Cofferdams. Temporary Earth Support Systems will be required to accommodate the phased construction. The actual locations, limits and design of temporary earth support systems shall be the responsibility of the Contractor. Temporary Earth Support Systems shall be paid for under Pay Item 511.091 Temporary Earth Support Systems.
c) Special Provision 526 Concrete Barrier.
i) Temporary Concrete Barrier, Anchored: Where concrete barrier is located on a new concrete deck, thru-bolting will be prohibited. All Temporary Concrete Barrier, Anchored that is required on the bridge deck or the approaches shall meet NCHRP 350 Test Level III (TL-3) crash test requirements.
ii) Temporary Concrete Barrier, Type I: All required temporary concrete barrier for this project shall be provided by the Contractor.
d) Special Provision 624 Stormwater Treatment. This work shall consist of constructing a stormwater underdrain treatment swale to treat stormwater runoff. All work shall be completed in accordance with the project Specifications and Plans, and as directed by the Resident, to provide a complete and operating system. There are several additional pay items associated with this work that are not outlined in detail as part of this agenda.
14) Questions:

MTA Contract 2019.10
Warren Avenue Bridge Replacement
PREBID MEETING 1:00PM APRIL 2, 2019 - ATTENDENCE SHEET



[^0]:    VANASSE HANGEN BRUSTLIN, INC
    500 Southober 500 Southborough Dr South Portland, ME 04106 FAX (207) 259-3150

[^1]:    Vanasse hangen brustlin, inc. $500 \begin{aligned} & \text { Southborough } \\ & \text { Suite } \\ & 1058\end{aligned}$ South Portlond, ME 04106

