

APRIL 20, 2017
REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET - PHASE 2
FEDERAL AID PROJECT NO. H121(002) & N/A
STATE PROJECT NOS. 135-301 & 301 - 163
CITY OF STAMFORD

ADDENDUM NO. 2

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. 2, 3, 5, 8, 9, 10, 36, 39, 40, 41, 52, 59.

SPECIAL PROVISIONS
NEW SPECIAL PROVISIONS

The following Special Provisions are hereby added to the Contract:

- Milestone Incentives and Milestone Liquidated Damages Provisions
- Item No. 0108100A - Lump Sum Incentive Payment (Estimated Cost)

REVISED SPECIAL PROVISIONS

The following Special Provisions are hereby deleted in their entirety and replaced with the attached like-named Special Provisions:

- Contract Time and Liquidated Damages
- Section 1.08 – Prosecution and Progress
- Item No. 0101176A – Disposal of PCB Waste

DELETED SPECIAL PROVISION

The following Special Provision is hereby deleted in its entirety:

- Item No. 0603253A – Disposal of Lead Debris

CONTRACT ITEM
NEW CONTRACT ITEM

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>QUANTITY</u>
0108100A	LUMP SUM INCENTIVE PAYMENT (ESTIMATED COST)	EST.	\$2,000,000.00

The Bid Proposal Form has been revised to reflect this change.

The Detailed Estimate Sheets do not reflect this change.

There will be no change in the Construction Completion Date due to this Addendum.

The foregoing is hereby made a part of the contract.

MILESTONE INCENTIVES AND MILESTONE LIQUIDATED DAMAGES PROVISIONS

In order to minimize the hazard, cost and inconvenience to the traveling public, pollution of the environment, and because the work covered by this Contract must be completed by the established dates, it is necessary to limit the time of construction work which interferes with traffic as specified in Prosecution and Progress, Article 1.08.04, of the Special Provisions.

The Construction Completion Date for this Contract was developed assuming extended working hours as well as multiple shifts, including but not limited to five (5) day, six (6) day and seven (7) day work weeks, except as indicated and restricted by the "Limitations of Operations", and working fifty-two (52) weeks per year, for the length of the Contract. To meet the Construction Completion Date, it is expected that the Contractor will be working extended shifts and using premium time simultaneously at multiple Project locations to complete the required work. The low bidder shall demonstrate to the Department that they have the qualified, necessary labor force and equipment to complete the work by the Construction Completion Date.

The Contractor can expect to complete temperature sensitive work during the winter months. Therefore, preparations must be made by the Contractor to protect this work from the cold and adverse conditions that the winter months may bring. There will be no additional compensation paid to the Contractor for this work but it shall be included in the general cost of the work.

The construction of this Contract shall be phased so that all existing Eversource Energy (Eversource) and Frontier Communications (Frontier) facilities remain in place until the permanent infrastructure for these utilities is in place and operable. The Contractor is responsible for coordinating with the utility companies to ensure that all existing utilities in Atlantic Street and South State Street have been relocated or abandoned prior to beginning the construction of the bridge pier or any other work that requires utilities relocation. The utility work by Eversource and Frontier is scheduled to be completed by December 1, 2018.

The Contractor is hereby made aware that work in the area of this Contract is on-going under State Project No. 135-326, which includes the construction of I-95 NB Exit 8 ramp over Atlantic Street, drainage and utility work in South State Street that began April 2016 and is scheduled to be completed June 2018. The Contractor is responsible for coordinating work with adjacent contractors.

The Contractor is responsible for developing its own phasing plan for the Engineer's approval for the Project work, including self-performed utility work. A suggested phasing plan, representing one possible sequence, is provided in the Contract Plans for the Contractor's information.

Although the Contractor is responsible for developing its own phasing plan, the Contractor shall comply with the following construction milestones and specified timeframes:

REPLACEMENT OF MNR BRIDGE OVER ATLANTIC STREET – STATE PROJECT NO. 135-301

The Contractor is hereby advised that this Project contains activities which have been deemed critical to the commencement, progress and completion of the Project. The Department has established two (2) Milestone dates associated with Project 135-301 to ensure that critical stages of work are coordinated for the successful completion of the Project and other work. These Milestone dates have associated incentive payments as well as Liquidated Damages.

In addition, the Contractor is hereby advised that the completion of this Project is dependent on work to be performed by Metro-North Commuter Railroad Company (MNR), Eversource, Frontier and other parties. In order to allow these other parties to complete their work, the Contractor may be restricted from performing Contract work at certain locations within the Project limits during certain time periods. Anticipated access restrictions are described below and in Prosecution and Progress, Article 1.08.04, of the Special Provisions, but the Contractor shall coordinate with the Engineer, MNR, and any other required parties on a regular basis to ensure that conflicts are avoided. During the restricted periods, the Contractor shall schedule operations so that work at other, non-restricted, locations can be completed.

Failure to complete this work within the specified completion date will result in the assessment of Liquidated Damages as described below:

Should the Contractor complete the specified Milestone tasks on or before the Milestone Incentive Completion Date (When the “Allowable Milestone Completion Date” is the same as the “Milestone Incentive Completion Date”), the total payment, where applicable, shall be the “Lump Sum Milestone Incentive Payment” as defined below.

Lump Sum Milestone Incentive Payment = Milestone Incentive Bonus Payment Amount + (Milestone Incentive Hourly or Milestone Incentive Daily Payment Amount x (number of hours or days the Contract Milestone elements complete before the Milestone Incentive Completion Date”))

Should the Contractor fail to complete the specified Milestone tasks by the Milestone Incentive Completion Date (When the “Allowable Milestone Completion Date” is the same as the “Milestone Incentive Completion Date”) no Milestone Incentive Bonus Payment will be made and Milestone Liquidated Damages will be assessed for each hour or day that the specified Contract Construction Milestone is complete after the "Allowable Milestone Completion Date”.

Total Milestone Liquidated Damages = Milestone Liquidated Damages Hourly (or Daily) Amount x (number of hours or days the Contract Milestone elements complete after the “Allowable Milestone Completion Date”)

Atlantic Street Readiness Plan

The Contractor shall develop and submit an Atlantic Street Readiness Plan. The purpose of this plan is to ensure all resources are in place prior to the Atlantic Street Closure and to eliminate possible delays.

The information included in the Readiness Plan shall contain but is not limited to:

- a. Construction Schedule showing the closure of Atlantic Street after the existing utilities have been relocated but no earlier than February 18, 2019.
 - o Also any outstanding construction activities to be completed including anticipated early/late completion dates
- b. 'As Built' Utility Schedules
- c. Schedule of Submittals
- d. Material Delivery Dates
- e. Detailed sequence of activities including, but not limited to staffing and shift times.
- f. Description of any special resources, including back up equivalent resources.
 - o Including specialized equipment and contingency plans for mechanical failure
- g. MPT Coordination

The Readiness Plan shall be submitted to the Department a minimum of forty-five (45) days prior to the anticipated start of the Atlantic Street closure, which the Department will review and provide comments. A minimum of fourteen (14) calendar days prior to the anticipated closure date, the Contractor shall provide a confirmation report to the Department detailing how the Contractor has addressed all the Department's comments and pending items. Five (5) days prior to the start of the Atlantic Street closure, the Contractor shall meet with the Department to review any outstanding readiness items and coordinate final details for the implementation of the road closure.

The Readiness Plan shall include the schedule for the following activities showing 100% completion prior to the Structure roll-in date of June 28, 2019:

Complete Assembly of Bridge Superstructures

- The assembly of the bridge superstructure units for all bridge spans for Railroad Track Nos. 2,4 and 1,3 and 5,7 at designated locations north and south of the bridge.
 - o The completed assembly shall include completion of all concrete curing to the required design strength
 - o Installation of the spray-applied liquid membrane
 - o Delivery of all bridge bearings to a nearby staging area.
 - o Inspected by the Engineer.
 - Acceptance will in writing by the Engineer

- Time for corrective work.

Preparation of Bridge Abutments

- This work shall include excavation, installation of all micro-piles, construction of the concrete pile cap, and bridge seats.
 - The Contractor’s attention is directed to the fact that the start of construction of the bridge abutments is constrained by the construction of the jump spans, at track level, which is anticipated to start April 2018.
 - Inspected by the Engineer.
 - Acceptance will be in writing by the Engineer
 - Time for corrective work.

Preparation of Bridge Pier Substructure

- This work shall include installation of all micro-piles
- Construction of the concrete pile cap
- Installation of all anchor bolts into the pile cap.
- Delivery of all Structural Steel pier columns to a nearby staging area.
- Inspected by the Engineer.
 - Acceptance will be in writing by the Engineer
- Time for corrective work.

Milestone Incentive and Milestone Liquidated Damages Tables

Description of the Work – Milestone 1
<p><u>Complete Installation of Bridge Superstructures</u></p> <p>This work shall include the demolition of the existing bridge superstructure and installing the new bridge superstructures while maintaining two (2) active railroad tracks in accordance with the Contract. The work shall include installation of all ballast, ties and rails across the bridge for five (5) tracks (Tracks 4, 2, 1, 3, and 5) in accordance with all contract requirements.</p> <p>The Contractor shall incorporate, into its phasing plan, the time allotted for the complete installation of the bridge superstructures. In accordance with the timeframe provided by Metro-North Commuter Railroad Company (MNR) and detailed in Prosecution and Progress of the Special Provisions, said work shall begin at 10:00 P.M. on Friday June 28, 2019 and shall be completed by 6:00 P.M. on Sunday July 7, 2019 which includes a total of approximately 13 hours required by MNR for testing and work necessary to take tracks 4, 2, and 1 out of service and return tracks 4 and 2 back to service and take tracks 3 and 5 out of service.</p> <p>The period from Sunday July 7, 2019 at 6:00 P.M. to Monday July 8, 2019 at 5:00 A.M. (11 hours) is required by MNR for testing and work necessary to return tracks 1, 3 and 5 to</p>

service on July 8, 2019 by 5:00 A.M.	
Milestone 1 Incentive Completion Date By 6:00 P.M. July 7, 2019	Milestone 1 Incentive Bonus Payment Amount \$1,000,000.00
Allowable Milestone 1 Completion Date 6:00 P.M. July 7, 2019	Milestone 1 Incentive Hourly Payment Amount \$1,250.00
Allowable Milestone 1 Completion Date 6:00 P.M. July 7, 2019	Milestone 1 Liquidated Damages Hourly Amount \$1,250.00

Description of the Work – Milestone 2	
<u>Atlantic Street and South State Street Detours</u>	
Atlantic Street, between Dock Street and South State Street, will be closed from the start date for the construction of the bridge pier to a maximum of sixty calendar days after the demolition and installation of the new bridge (M&PT Stage 2). The work associated with Atlantic and South State Streets Detours will include the reconstruction of Atlantic Street, South State Street and Manhattan Street (M&PT Stage 3). The duration of this detour must be the minimum time possible, with a maximum duration of sixty (60) calendar days starting from the complete installation date of the bridge superstructure (July 8, 2019 at 5:00 A.M.), with the opening of all three (3) roadways to traffic and all normal travel lanes, including turning lanes. Elements to be completed include but limited to the following items required to safely open the completed roadways to traffic: Bituminous concrete pavement and overlays, permanent drainage systems, permanent illumination, permanent signing and pavement markings, all traffic control devices, permanent curbing, permanent sidewalks, permanent brick pavers, and all other items incidental thereto. All work requiring this detour must be completed by 12:00 A.M. September 7, 2019.	
Milestone 2 Incentive Completion Date By 12:00 A.M. September 7, 2019	Milestone 2 Incentive Bonus Payment Amount \$400,000.00
Milestone 2 Completion Date 12:00 A.M. September 7, 2019	Milestone 2 Incentive Daily Payment Amount \$7,500.00
Milestone 2 Completion Date 12:00 A.M. September 7, 2019	Milestone 2 Liquidated Damages Daily Amount \$7,500.00

Milestone Incentive Payment Terms and Conditions

Prior to beginning work on the project, the Contractor shall furnish to the Engineer for approval a Critical Path Method (CPM) schedule that details all of the hour-by-hour (for Milestone 1) and day-to-day (for Milestone 2) operations necessary to complete the above described work. The schedule shall include activity descriptions, activity durations, and interdependence between activities, where applicable. The activities are to be described so that the work is readily identifiable and the progress on each activity can be readily measured and monitored during the noted timeframe. The Contractor must also provide the anticipated number of shifts, the hours per shift, and the anticipated number of personnel staffed per shift.

The Department shall pay to the Contractor a Lump Sum Incentive Payment under Item No. 0108100A, as set forth in the Incentive and Liquidated Damages Table by which the actual completion date of the pertinent work meets or precedes the pertinent "Milestone Incentive Completion Date." The Engineer shall determine said Date and the amount of any appropriate payment(s) to be made in this regard, subject to the conditions set forth hereinabove. For purposes of calculation and determination of entitlement to incentive payments hereunder, the Milestone Incentive Completion Date have been established for the Contract, and said Date will not be adjusted thereafter for any reasons, cause or circumstance, regardless of fault on the part of any party, except in the instance of a catastrophic event (*i.e.*, hurricane or a declared state of emergency), acts of State in either its sovereign or contractual capacity or acts of another contractor in performance of a contract with the State, utility work by Utility Companies, and track outages by MNR.

Under these provisions the Contractor must anticipate that Project delays may occur and may arise from any one of various kinds of events and circumstances prior to or during the Contract period, including, but not limited to, the deletion of Contract work, the issuing of construction orders, the execution of supplemental agreements, the discovery of differing site conditions, the adding of extra work to the Contract, the emergence of right-of-way conflicts, problems with the obtaining or the terms of permits, action or inaction by persons or entities working on the Project or by third parties, delays in the process of reviewing or approving shop drawings, expansion of the physical limits of the Project, the effects of weather conditions on Project activities, the occurrence of weekends or holidays, the suspension of any Project operation, or other events, forces or factors that affect highway or railroad construction work. Such events, forces or factors, and the Project delays, disruptions, inefficiencies or any other detrimental effects caused by them, are to be deemed to have been anticipated and contemplated by the parties in entering into this Contract, and shall not extend or constitute cause for extending any Milestone Incentive Completion Date for the purpose of determining whether or not any milestone incentive payment is due to the Contractor, or of calculating the amount of any milestone incentive payment due to the Contractor.

Further, any and all costs or detrimental effects incurred by the Contractor in accelerating its work in an attempt to meet the Milestone Incentive Completion Date that may be due the Contractor, regardless of the effects of any delay, disruption, inefficiency or other detrimental effect of the kinds of events, forces or factors referred to above, shall be solely the Contractor's responsibility, and may not be used as the basis for any claim by the Contractor for additional compensation. The Contractor's sole means, if any, for recovering such acceleration costs from

the State shall be the milestone incentive payment(s) that will be due if it completes the pertinent work prior to the relevant Milestone Incentive Completion Date.

If a catastrophic event (as defined above), acts of State in either its sovereign or contractual capacity or acts of another contractor in performance of a contract with the State directly and substantially delays or disrupts a portion of the Contract work described in the Milestone Incentive and Milestone Liquidated Damages Table, and if said effects and their claimed extent are supported by the Contractor's Critical Path Schedule, the Contractor and the Department shall agree on the number of calendar days by which to extend the pertinent Milestone Incentive Completion Date(s), and the adjusted Date(s) will be used in calculating any related milestone incentive payment(s). If the Contractor and the Department cannot agree on the appropriate adjustment of the pertinent Date(s), the Department will adjust the Date(s) in accordance with the period of delay that the Department reasonably deems to have been caused solely by the catastrophic event, acts of State in either its sovereign or contractual capacity or acts of another contractor in performance of a contract with the State. The Contractor shall have no right whatsoever to contest such determination, except in the event that the Contractor establishes that the number of calendar days of delay recognized by the Department in this context was arbitrary and without any reasonable basis.

A Waiver of Claim (WOC) executed between the Contractor and the Department will be issued to establish the extended pertinent Milestone Incentive Completion Date(s). The WOC will be incorporated into the Contract by Construction Order.

If the Contractor elects to take advantage of the milestone incentive payment provisions, and if any portion of said provisions conflicts with any other provision of the Contract, the Contract shall be interpreted in accordance with these additional milestone incentive payment provisions:

(1) To take advantage of the milestone incentive payment provisions, the Contractor must actually complete the pertinent work and obtain written verification from the Engineer that the actual milestone described work is accepted and the completion date was on or before the pertinent Milestone Incentive Completion Date.

(2) Within 30 days of receiving such verification of its actual completion date, the Contractor must provide written notification to the administrating District Engineer that the Contractor elects to receive payment(s) under these provisions. A copy of the Engineer's verification of the acceptance of the work and the pertinent actual completion date(s) must be enclosed with the notice to the District Engineer. In said written notice the Contractor, in the following language, shall:

"waive and release the State from any and all claims, causes of action, issues, demands, disputes, matters or controversies of any nature or kind, known or unknown, present or potential, which the Contractor, its employees, agents or successors may have, may have had or ever may have against the Department, its officials, employees, consultants, or its other agents or representatives, in connection with the Contract or the Project, including, but not limited to, claims regarding Project work performed or deleted, construction orders, supplemental

agreements, delays, disruptions, differing site conditions, utility conflicts, design changes or defects, time extensions, extra work, right-of-way issues, permitting issues, actions of suppliers or subcontractors or other contractors or third parties, shop drawing review or rejection, expansion of the physical Project limits, weather conditions, weekend or holiday cessation of Project activities, restrictions of working hours, suspensions of the Contractor's operations, extended or unabsorbed home office or jobsite overhead, lost profits, markups on subcontractor work, acceleration costs, and any other direct or indirect costs, and any other adverse impacts, events, conditions or circumstances or potential damages, relating to or arising out of the Contract or the Project through the date of this letter. This waiver and release and acknowledgement of satisfaction shall be all-inclusive and absolute, except for any routine adjustment by the Department of final quantity estimates."

If the Contractor does not, (1) prior to the Milestone Incentive Completion Date, complete the described Milestone Contract work and obtain written verification from the Engineer of the acceptance and actual completion date of said work, or (2) within thirty (30) days of said written verification, give the required written notice to the District Engineer of its election to receive incentive payment under the Contract, then the Contractor shall have no right to any payment under these milestone incentive payment provisions.

Without regard to any verification by the Engineer that pertinent Contract work has been completed and accepted, and without regard to whether or not any milestone incentive has been elected or earned under these provisions, the Contractor shall remain responsible for all Contract work and the continued maintenance thereof until such date as the Department formally accepts all work under the Contract in accordance with Section 1.08.14 of these Specifications.

Milestone Liquidated Damages Terms and Conditions

Whether or not the Contractor elects to take advantage of these milestone incentive payment provisions, this milestone liquidated damage provisions shall apply to all circumstances in which the Engineer does not verify in writing that the pertinent Contract work has been completed on or before the "Allowable Milestone Completion Date" listed in the Milestone Incentive and Milestone Liquidated Damages Table. The phrase "Allowable Milestone Completion Date," as used in this Provision shall mean the "Allowable Completion Date" as it may have been adjusted by the Department pursuant to Section 1.08.08.

If the Contractor does not complete the pertinent work on or before the applicable Allowable Milestone Completion Date, the Department will deduct from monies otherwise owed to the Contractor the pertinent "Milestone Liquidated Damages Daily Amount" listed in the Milestone Incentive and Milestone Liquidated Damages Table for each calendar day that it takes the Contractor to complete said work beyond the Allowable Milestone Completion Date. The "Milestone Liquidated Damages Amount" and "Allowable Milestone Completion Date" for each Contract Milestone listed in the Milestone Incentive and Milestone Liquidated Damages Table is the same as a Contract Milestone, liquidated damage and calendar date indicated in the special provision "Contract Time and Liquidated Damages."

ITEM #0108100A - LUMP SUM INCENTIVE PAYMENT (ESTIMATED COST)

Description: Under this item, the Contractor will receive a Lump Sum Incentive Payment earned in accordance with the MILESTONE INCENTIVE AND MILESTONE LIQUIDATED DAMAGES PROVISIONS included in this Contract.

Basis of Payment: The “Lump Sum Incentive Payment” will be calculated using the method indicated in the MILESTONE INCENTIVE AND MILESTONE LIQUIDATED DAMAGES PROVISIONS.

The sum of money shown on the estimate, and in the itemized proposal as “Estimated Cost” for this item will be considered the bid price although payment will be made as described above. The estimated cost figure is not to be altered in any manner by the bidder. If the bidder should alter the amount shown, the altered figure will be disregarded and the original cost figure will be used to determine the amount of the bid for this Contract.

<u>Pay Item</u>	<u>Pay Unit</u>
Lump Sum Incentive Payment (Estimated Cost)	est.

CONTRACT TIME AND LIQUIDATED DAMAGES

For Federal Aid Project No. H121(002) – (State Project No. 135-301) and Federal Aid Project No. N/A – (State Project No. 301-163) the Construction Completion Date of June 30, 2020 will be allowed for completion of the work and liquidated damages charge to apply will be Eighteen Thousand dollars (\$18,000) per calendar day. Liquidated Damages, if any apply, under this Contract will be assessed with no maximum assessment.

SECTION 1.08 – PROSECUTION AND PROGRESS

Article 1.08.01 – Transfer of Work or Contract: *Add the following after the last paragraph:*

The Contractor shall pay the subcontractor for work performed within thirty (30) days after the Contractor receives payment for the work performed by the subcontractor. Also, any retained monies on a subcontractor's work shall be paid to the subcontractor within thirty (30) days after satisfactory completion of all of the subcontractor's work.

For the purpose of this Item, satisfactory completion shall have been accomplished when:

- (1) The subcontractor has fulfilled the contract requirements of both the Department and the subcontract for the subcontracted work, including the completion of any specified material and equipment testing requirement or plant establishment period and the submission of all submittals (i.e.: certified payrolls, material samples and certifications, required state and federal submissions, etc.) required by the specifications and the Department, and
- (2) The work done by the subcontractor has been inspected and approved by the Department and the final quantities of the subcontractor's work have been determined and agreed upon.

If the Contractor determines that a subcontractor's work is not complete, the Contractor shall notify the subcontractor and the Engineer, in writing, of the reasons why the subcontractor's work is not complete. This written notification shall be provided to the subcontractor and the Engineer within twenty-one (21) days of the subcontractor's request for release of retainage.

The Engineer will institute administrative procedures to expedite the determination of final quantities for the subcontractor's satisfactorily completed work.

The inspection and approval of a subcontractor's work does not eliminate the Contractor's responsibilities for all the work as defined in Article 1.07.12, "Contractor's Responsibility for Work."

The inspection and approval of the subcontractor's work does not release the subcontractor from its responsibility for maintenance and other periods of subcontractor responsibility specified for the subcontractor's items of work. Failure of a subcontractor to meet its maintenance, warranty and/or defective work responsibilities may result in a finding that the subcontractor is non-responsible on future subcontract assignments.

For any dispute regarding prompt payment or release of retainage, the alternate dispute resolution provisions of this article shall apply.

The above requirements are also applicable to all sub-tier subcontractors and the above provisions shall be made a part of all subcontract agreements.

Failure of the Contractor to comply with the provisions of this section may result in a finding that the Contractor is non-responsible on future projects.

Article 1.08.03 – Utility Schedules: *Add the following: Eversource Electric Distribution, Aquarion Water Company, Frontier Communications*

rev. 5/20/2013		UTILITY WORK SCHEDULE	
CTDOT Project Number:	135-301 / 135-326	Town:	Stamford
Project Description:	CTDOT Reconstruction of Atlantic St		
CTDOT Utilities Engineer:	Derek Brown		
Phone:	860-594-2555	Email:	Derek.Brown@ct.gov
Utility Company:	Eversource Energy		
Prepared By:	Michael Parillo	Date Prepared:	5/29/2015
Phone:	203-352-5431	Email:	michael.parillo@eversource.com
Scope of Work			
<p>The following is a description of all utility work planned to be completed in conjunction with the CTDOT project. The narrative describes all work to be carried out by the utility or its contractor, including temporary and permanent work required by the project as well as any additional utility infrastructure work the utility intends on performing within the project limits during the construction of the project.</p>			
<p>Install Approximately 1600' of 12 Position, 5" PVC Duct Bank amongst 10 Manholes (6 New). Civil work on South State St, Manhattan St & Atlantic St was assumed to take 1 day for 10' of installed duct bank. All MH Installations were assumed to take 3 days per location using information contained on the latest drawings forwarded to CL&P via email on 5/15/15. All CL&P work outside of the following cannot begin until the completion of the 2 pipe jacks underneath the MNRR railroad....</p> <p>((1)) Inst. 300' of 12 Position duct bank from New MH 16 to Existing MH 17 (CIVIL ONLY). Inst. MH 16.</p> <p>((2)) Inst. 350' of 12 Position duct bank from New MH 499 to Existing MH 500 (CIVIL ONLY). Inst. MH 499.</p> <p>((3)) Pull Cable from MH 502 to MH 13 & Complete Cutover of 1G16 Circuit</p>			
Special Considerations and Constraints			
<p>The following describes the limiting factors that must be planned for in the scheduling and performance of the utility work. For example, restrictions on cut-overs, outages, limitations on customer service interruptions (e.g. nights, weekends, holidays), seasonal and environmental shutdown periods, long lead material procurements, etc..</p>			
<ul style="list-style-type: none"> - June 1 - Sept. 1 is the Summer Moratorium. No Cutover can be planned during this period. - Attached schedule assumes 40 hr work week, 8 or 10 hour work days. - Weather dependant and assumes no weather extremes - Assumes no road closures - Assumes no coordination with MNRR or MNRR Flaggers - Assumes minor to moderate ledge during civil work - Assumes no delay with Frontier or other utility conflicts during inst./transfer of cable - Favorable Elec. Distrib. operating condition for cable cutover with other CL&P Capital Work - Assuming the abandoning of 4 existing MH's and associated duct in vicinity of MNRR bridge 			

UTILITY WORK SCHEDULE				
CTDOT Project Number: 135-301 / 135-326				
Utility Company: Eversource Energy				
Prepared By: Michael Parillo		Total Calendar Days: 241		
Schedule				
The following schedule identifies each major activity of utility work in sequential order to be performed by the utility or its contractor. The location of each activity of work is identified by the baseline stationing on the CTDOT plans. All activities identify the predecessor activity which must be completed before a utility work activity may progress. The duration provided is the number of calendar days required to complete the utility work activity based on historical information and production rates.				
Location (Station to Station)	Description of Utility Work Activity	Predecessor Activity	Duration (calendar days)	
NA	Notice to Proceed	NONE		
NA	State contractor marking out critical elevations /project landmarks (i.e curblines / retaining wall)	Notice to Proceed		
NA	Acquire Town/State Permits & Order Material *Jacked Pipe Spacers carry 5 week lead time	Notice to Proceed	21	
303 + 00 - 301 + 50	Inst. 150' of 12 Position duct bank from Existing MH 503 to New MH 1154 (CIVIL ONLY). Install MH 1154.	42"/48" RCP/Steel Pipe Jack Install Completion	18	
303 + 00 - 300 + 00	Inst. 300' of 12 Position duct bank from Existing MH 502 to New MH 1156 (CIVIL ONLY). Install MH 1156.	42"/48" RCP/Steel Pipe Jack Install Completion	33	
505 + 00 - 508 + 50	Inst. 350' of 12 Position duct bank from New MH 1155 to New MH 499 (CIVIL ONLY). Install MH 1155.	42"/48" RCP/Steel Pipe Jack Install Completion	38	
508 + 50 - 512 + 00	Inst. 350' of 12 Position duct bank from New MH 499 to Existing MH 500 (CIVIL ONLY). Inst. MH 499.	Notice to Proceed	38	
510 + 50 - 512 + 00	Inst. 150' of 12 Position duct bank from New MH 1157 to New MH 16 (CIVIL ONLY). Install MH 1157.	42"/48" RCP/Steel Pipe Jack Install Completion	18	
205 + 00 - 208 + 00	Inst. 300' of 12 Position duct bank from New MH 16 to Existing MH 17 (CIVIL ONLY). Inst. MH 16.	Notice to Proceed	33	
303 + 00 - 301 + 50 505 + 00 - 512 + 00	Pull Cable from MH 503 to MH 500 & Complete Cutover of 1G05 Circuit	Civil Completion	21	
303 + 00 - 301 + 50 505 + 00 - 512 + 00	Pull Cable from MH 503 to MH 500 & Complete Cutover of 1G08 Circuit	1G05 Cutover Completion	21	

UTILITY WORK SCHEDULE			
CTDOT Project Number: 135-301 / 135-326			
Utility Company: Eversource Energy			
Prepared By: Michael Parillo		Total Calendar Days: 203	
Schedule			
The following schedule identifies each major activity of utility work in sequential order to be performed by the utility or its contractor. The location of each activity of work is identified by the baseline stationing on the CTDOT plans. All activities identify the predecessor activity which must be completed before a utility work activity may progress. The duration provided is the number of calendar days required to complete the utility work activity based on historical information and production rates.			
Location (Station to Station)	Description of Utility Work Activity	Predecessor Activity	Duration (calendar days)
303 + 00 - 301 + 50 505 + 00 - 512 + 00	Pull Cable from MH 503 to MH 500 & Complete Cutover of 1G12 Circuit	1G08 Cutover Completion	21
303 + 00 - 301 + 50 505 + 00 - 512 + 00	Pull Cable from MH 503 to MH 500 & Complete Cutover of 1G09 Circuit	1G12 Cutover Completion	21
303 + 00 - 301 + 50 505 + 00 - 512 + 00	Pull Cable from MH 503 to MH 500 & Complete Cutover of 1G01 Circuit	1G09 Cutover Completion	21
303-300,512-510+50 205 + 00 - 208 + 00	Pull Cable from MH 502 to MH 17 & Complete Cutover of 1G14 Circuit	1G01 Cutover Completion	21
303-300,512-510+50 205 + 00 - 208 + 00	Pull Cable from MH 502 to MH 17 & Complete Cutover of 1G11 Circuit	1G14 Cutover Completion	21
303-300,512-510+50 205 + 00 - 208 + 00	Pull Cable from MH 502 to MH 17 & Complete Cutover of 1G03 Circuit	1G11 Cutover Completion	21
303-300,512-510+50 205 + 00 - 208 + 00	Pull Cable from MH 502 to MH 17 & Complete Cutover of 1G06 Circuit	1G03 Cutover Completion	21
303-300,512-510+50 205 + 00 - 208 + 00	Pull Cable from MH 502 to MH 17 & Complete Cutover of 1G07 Circuit	1G06 Cutover Completion	21
303-300,512-510+50 205 + 00 - 208 + 00	Pull Cable from MH 502 to MH 17 & Complete Cutover of 1G10 Circuit	1G07 Cutover Completion	21
Out of Project Boundaries	Pull Cable from MH 502 to MH 13 & Complete Cutover of 1G16 Circuit	NONE	14

rev. 5/20/2013		UTILITY WORK SCHEDULE	
CTDOT Project Number:	135-326	Town:	Stamford
Project Description:	Replacement of MNRR Bridge over Atlantic Street - Phase 1		
CTDOT Utilities Engineer:	Derek Brown		
Phone:	860-594-2555	Email:	Derek.Brown@ct.gov
Utility Company:	Aquarion Water Company of Connecticut		
Prepared By:	Carlos J. Vizcarrondo	Date Prepared:	Jun-15
Phone:	203 337-5950	Email:	cvizcarrondo@aquarionwater.com
Scope of Work			
<p>The following is a description of all utility work planned to be completed in conjunction with the CTDOT project. The narrative describes all work to be carried out by the utility or its contractor, including temporary and permanent work required by the project as well as any additional utility infrastructure work the utility intends on performing within the project limits during the construction of the project.</p>			
<p>The Aquarion Water Company will utilize the State's Contractor to cut, plug and abandon water mains in Manhattan Street (8") and South State Street (12") that are in conflict with utility and storm drainage work proposed under Project 135-326. The abandoned 8" water main in Manhattan Street will not be replaced. Approximately 835 feet of 12" water main in South State Street will be replaced by the State's Contractor extending from Canal Street westerly toward the limit of construction for future Project 135-301 on Atlantic Street.</p>			
Special Considerations and Constraints			
<p>The following describes the limiting factors that must be planned for in the scheduling and performance of the utility work. For example, restrictions on cut-overs, outages, limitations on customer service interruptions (e.g. nights, weekends, holidays), seasonal and environmental shutdown periods, long lead material procurements, etc..</p>			
<p>There are no building services on the water main segments to be abandoned. There are two hydrants connected to the water main in South State Street. Maintenance of fire flow to these hydrants is mandatory unless approved in writing by the City of Stamford.</p>			

UTILITY WORK SCHEDULE			
CTDOT Project Number: 135-326			
Utility Company: Aquarion Water Company of Connecticut			
Prepared By: Carlos J. Vizcarrondo		Total Calendar Days: 23	
Schedule			
The following schedule identifies each major activity of utility work in sequential order to be performed by the utility or its contractor. The location of each activity of work is identified by the baseline stationing on the CTDOT plans. All activities identify the predecessor activity which must be completed before a utility work activity may progress. The duration provided is the number of calendar days required to complete the utility work activity based on historical information and production rates.			
Location (Station to Station)	Description of Utility Work Activity	Predecessor Activity	Duration (calendar days)
301+45 Manhattan	Cut and Cap Existing 8 inch Water Main.	None.	2
302+75 Manhattan	Cut and Cap Existing 8 inch Water Main.	None.	2
510+90 South State	Cut and Cap Existing 12 inch Water Main.	None.	2
520+35 South State	Cut and Cap Existing 12 inch Water Main. Abandon 12 inch Water Main in South State Street.	None.	2
521+50 Canal Street	Offset 16 inch Water Main to 1.5 feet below proposed Storm Drain.	To be completed in conjunction with Storm Drain installation.	5
512+00 To 520+35	Install 835 feet of new 12 inch Water Main along South State Street.	State Contractor to excavate roadway to bottom of subgrade for water company.	10

UTILITY WORK SCHEDULE

CTDOT Project Number: 135-301/326
 Utility Company: Frontier Communications
 Prepared By: Kenneth L. Sherman
 Total Calendar Days: 150

Schedule

The following schedule identifies each major activity of utility work in sequential order to be performed by the utility or its contractor. The location of each activity of work is identified by the baseline stationing on the CTDOT plans. All activities identify the predecessor activity which must be completed before a utility work activity may progress. The duration provided is the number of calendar days required to complete the utility work activity based on historical information and production rates.

Location (Station to Station)	Description of Utility Work Activity	Predecessor Activity	Duration (calendar days)
205+75	Test Pits to determine new manhole #3331 for rebuild size that can fit.	Receiving funding and permits	2
511+05	Test Pits to determine new manhole size that can fit.		2
302+10	Test Pits to determine new manhole size that can fit.		2
203+00	Test Pits to determine new manhole size that can fit.		2
208+58 to 205+75	New duct structure (4-4"P) from manhole #17 to new manhole #331.	Frontier Communications to rebuild mh #3331 first.	6
205+75	Breakout old conduit structures, removal existing manhole #331.		33
205+75 to 511+05	Install new manhole #331 and lower ex. Conduits and place new conduits to new manhole on South State St.		58
511+05	Install new manhole on South State Street. Breakout and shift existing structures.		4
* 511+05 to 302+10	Install conduits and spacers in boring caisson.	State Contractors must be completed with bore.	see below
302+10	Install new manhole on Manhattan Street. Breakout and shift existing structures.	Eversource must be out of their old duct structure	9
	* NOTE: AT&T work in this area		32

UTILITY WORK SCHEDULE			
CTDOT Project Number: 135-301/326			
Utility Company: Frontier Communications			
Prepared By: Kenneth L. Sherman		Total Calendar Days: 184	
Schedule			
The following schedule identifies each major activity of utility work in sequential order to be performed by the utility or its contractor. The location of each activity of work is identified by the baseline stationing on the CTDOT plans. All activities identify the predecessor activity which must be completed before a utility work activity may progress. The duration provided is the number of calendar days required to complete the utility work activity based on historical information and production rates.			
Location (Station to Station)	Description of Utility Work Activity	Predecessor Activity	Duration (calendar days)
203+00	Install new manhole on Atlantic Street. Breakout and shift existing structures.		6
302+10 to 203+00	Lower and shift ex. Conduits, place new Conduits to new MH on Manhattan St. to new MH on Atlantic St.		28
203+00 to 201+45	Lower and shift ex. Conduits into new MH on Atlantic St.		7
204+90	Abandon-in-Place Manhole #25 (brick) in place lower 3' below existing grade		2
203+80	Abandon-in-Place Manhole #18 (brick) in place lower 3' below existing grade		2
203+60	Abandon-in-Place Manhole #598 (brick) in place lower 3' below existing grade		2
108 to 302	Place cables from MH #331 Atlantic Street to new MH on Manhattan Street	Conduit work completed	25
302 to 203	Place cable from new MH on Manhattan to new MH on Atlantic Street south of RR bridge.	Conduit work completed	2
108	Splice new cables into existing at new MH #331	Cables being placed	50
302	Splice new cables into existing at new MH on Manhattan Street	Cables being placed	55
203	Splice new cables from New MH on Manhattan Street to New MH on Atlantic south of RR Bridge	Cables being placed	5

Article 1.08.04 – Limitations of Operations: *Add the following:*

TIME RESTRICTIONS

In order to provide for traffic operations as outlined in the Special Provision "Maintenance and Protection of Traffic," the Contractor will not be permitted to perform any work that will interfere with described traffic operations on all project roadways as follows:

On the following State observed Legal Holidays:

New Year's Day

Good Friday, Easter*

Memorial Day

Independence Day (except during the period from Friday, June 28, 2019 to Monday, July 8, 2019 Atlantic Street and South State Street can be closed to traffic)

Labor Day

Columbus Day

Thanksgiving Day**

Christmas Day

The following restrictions also apply:

- On the day before and the day after any of the above Legal Holidays.
- On the Friday, Saturday and Sunday immediately preceding any of the above Holidays celebrated on a Monday.
- On the Saturday, Sunday and Monday immediately following any of the above Holidays celebrated on a Friday.

* From 6:00 p.m. the Thursday before the Holiday to 8:00 p.m. the Monday after the Holiday.

** From 6:00 a.m. the Wednesday before the Holiday to 8:00 p.m. the Monday after the Holiday.

During all other times

Atlantic Street, South State Street, Canal Street, Manhattan Street and all other roadways during periods other than:

- **Pier construction of the MNR Bridge over Atlantic Street,**
- **Demolition, SPMT roll-in operation and erection of the MNR Bridge, and**
- **Lowering of Atlantic Street, South State Street and Manhattan Street.**

Monday through Friday between 5:00 a.m. and 9:00 a.m. and between 3:00 p.m. and 8:00 p.m. and Saturday and Sunday between 10:00 a.m. and 6:00 p.m.

The Contractor will be allowed to close the roadways and detour traffic around the site in accordance with the detour routes in the Maintenance and Protection of Traffic Plans during night time periods starting at 9:00 p.m. and ending at 5:00 a.m. the following day. The detour shall not take place during a Holiday period.

The Contractor will be allowed to halt traffic for a period not to exceed 10 minutes to mobilize equipment or to receive deliveries during off peak travel periods with the approval of the Engineer.

For other work as shown on the Maintenance and Protection of Traffic Plans or as approved by the Engineer the Contractor may implement the detour routes for road closures as shown in the plans. The Contractor shall notify the Engineer at least 30 days in advance of the start of the roadway closure.

The Contractor shall coordinate his activities with City of Stamford for any Holidays and or other restricted periods, which may affect the work schedule (winter moratoriums, Thanksgiving Day Parade and parade preparation period which normally consists of the two-week period prior to the parade).

Atlantic Street and Manhattan Street to construct the MNR Bridge Pier

To construct the pier for the new MNR Bridge, the Contractor may close Atlantic Street from Dock Street to South State Street after the existing utilities have been relocated but not earlier than February 18, 2019 (M&PT Stage 1B). Traffic detours will be implemented during the periods of the road closures.

For a detailed sequence of construction, the Contractor should reference the following contact plans:

- Volume 1, Subset 04, Stage drawings 01.04.017 to 01.04.023.

Atlantic Street, South State Street, Dock Street, Ramps and Manhattan Street for the Demolition of the MNR Bridge, SPMT roll-in operation and Erection of the MNR Bridge

During the SPMT roll-in and erection of the MNR Bridge superstructure, the Contractor will be allowed to close the roadways affected by the SPMT roll-in operation during the period of June 28, 2019 to July 8, 2019 (M&PT Stage 2).

During the SPMT roll-in from the lay down area at John Street and Dock Street, Dock Street is to be closed from Atlantic Street to John Street. During the SPMT roll-in from the lay down area adjacent to the I-95 NB on-ramp from Elm Street, the I-95 NB on-ramp from Elm Street, South State Street from Atlantic Street to Elm Street and the Exit 8 NB off-ramp shall be closed. North to south directional traffic on Canal Street and Elm Street can be maintained during the SPMT roll-in operation with the use of Traffic Persons (Municipal Police Officer).

Traffic detours will be implemented during the periods of the road closures.

If alternate lay down areas are proposed that would require other roadway closures from those shown on the plans the Contractor shall receive advance approval from the Engineer of the sites, proposed road closures and detour routes.

This period includes activities associated with the demolition of the existing bridge superstructure, roll-in and erection of the new bridge as shown on the plans.

For a detailed sequence of construction, the Contractor should reference the following contact plans:

- Volume 1, Subset 04, Stage drawings 01.04.017 to 01.04.023.

Atlantic Street, South State Street and Manhattan Street for the lowering and construction of Atlantic Street, South State Street and Manhattan Street

After the new Bridge is in place, Stage 3 roadway work lowers Atlantic Street, South State Street and Manhattan Street. During the lowering operation, the Contractor will be allowed to close Atlantic Street,

South State Street and Manhattan Street within the limits of the project work for a period not to exceed 60 days unless otherwise approved by the Engineer.

For a detailed sequence of construction, the Contractor should reference the following contact plans:

- Volume 1, Subset 04, Stage drawings 01.04.017 to 01.04.023.

Work Restrictions

Project 135-326 will be under construction during this project and work activities and work areas for Project 135-301 may be restricted by Project 135-326 work. Work activities in Project 135-326 that could affect Project 135-301 work, work area and schedule include but not limited to the following:

- Construction and completion of the Utility Corridor and utility duct work. The new pier for the MNR Bridge cannot be built until the existing utilities in Atlantic Street are relocated to the new duct banks and utility corridor.
- Construction and completion of the Exit 8 SB off-ramp “Flyover” Structure over Atlantic Street. The work on South State Street cannot proceed until the new ramp bridge is constructed and traffic is shifted to the new ramp alignment and bridge.
- Construction and completion of the north side of South State Street. The work on South State Street cannot proceed until traffic is shifted to the Project 135-326 South State Street alignment.
- Drainage in South State Street and connection to Canal Street. Drainage connections in Project 135-301 cannot be completed until the Project 135-326 drainage is installed.
- Construction and completion of the Sanitary Sewer work in South State Street. The work on South State Street cannot be completed until the sanitary sewer work is complete.
- Construction and completion of water main work in South State Street. The Project 135-301 water main is connecting to the Project 135-326 installed water main.
- Relocation of RR Catenary Tower 370B. The jump span work cannot proceed until the catenary is relocated.

The Contractor shall coordinate his activities with Project 135-326 work and schedule to maintain proper traffic flow at all times.

Additional Lane Closure Restrictions

It is anticipated that work on adjacent projects will be ongoing simultaneously with this project. The Contractor shall be aware of those projects and anticipate that coordination will be required to maintain proper traffic flow at all times on all project roadways, in a manner consistent with these specifications and acceptable to the Engineer.

Contractor Requirements for Work Affecting the Railroad

In general, unless otherwise authorized by the Railroad, the Contractor’s construction activities and operations directly over and/or adjacent to the operating railroad right-of-way can be performed only during the following track outage periods shown below.

The following outages are available, but cannot be guaranteed, for the construction of Atlantic Street Bridge (reference Volume 1, Subset 10, Stage drawings 01.10.000 to 01.10.018). For scheduling purposes, the Contractor should anticipate up to one shift per week will be cancelled or disallowed by MNR. The times provided are inclusive of MNR's effort to prepare their facilities for the Contractor's operations, as well as MNR's effort to restore their facilities prior to resuming regular operations.

Stage	Outage	Time
1A & 1B	Track 4 Off-Peak Weekend Nights	0001 – 0430
2A & 2B	Track 4 Continuous (9 days)	Saturday 0001 to the following Monday 0430
2A & 2B	Track 2 Continuous Weekend (2 weekends)	Saturday 0001 to Monday 0430
2A & 2B	Track 1 Weeknight	0001 – 0430
NOTE: Stage 2B occurs on the second weekend of the 9-day outage.		
3A & 3B	Track 2 Continuous (9 days)	Saturday 0001 to the following Monday 0430
3A & 3B	Track 1 Continuous Weekend (2 weekends)	Saturday 0001 to Monday 0430
3A & 3B	Track 3 or 4 Weeknight	0001 – 0430
NOTE: Stage 3B occurs on the second weekend of the 9-day outage.		
4A & 4B	Track 1 Continuous (9 days)	Saturday 0001 to the following Monday 0430
4A & 4B	Track 3 Continuous Weekend (2 weekends)	Saturday 0001 to Monday 0430
4A & 4B	Track 2 or 5 Weeknight	0001 – 0430
NOTE: Stage 4B occurs on the second weekend of the 9-day outage.		
5A & 5B	Track 3 Continuous (16 days)	Saturday 0001 to the third Monday 0430
5A & 5B	Track 5 Continuous Weekend (2 weekends)	Saturday 0001 to Monday 0430
5A & 5B	Track 1 Weeknight	0001 – 0430
5B	Track 1 Continuous Weekend	Saturday 0001 to Monday 0430
NOTE: Stage 5B occurs during the period from the second weekend through the third weekend of the of the 16-day outage. The 53B and 31A switches are installed on the second and third weekends of the 16-day outage, respectively.		
6A & 6B	Track 5 Continuous (9 days)	Saturday 0001 to the following Monday 0430
6A & 6B	Track 3 Continuous Weekend (2 weekends)	Saturday 0001 to Monday 0430
6A & 6B	Track 1 Weeknight	0001 – 0430
NOTE: Stage 6B occurs on the second weekend of the 9-day outage.		
7	Tracks 3, 1 & 2 Continuous Weekend	Saturday 0001 to Monday 0430
8A & 8B	Tracks 1, 2 & 4 Continuous (see NOTE)	Friday 2200 to the following Monday 0500
8C & 8D	Tracks 1, 3 & 5 Continuous (see NOTE)	
8E	Tracks 1, 3 & 5 Continuous (see NOTE)	
NOTE: Track outages for 8A through 8E shall be staged over the course of a single period beginning at 2200 hours on Friday, June 28, 2019 and ending at 0500 hours on Monday, July 8, 2019. The durations of individual stages (i.e. 8A, 8B, 8C, etc.) within this period shall be determined by the Contractor. During this period, two active tracks shall be maintained at all times. This period is inclusive of MNR's effort to take Tracks 1, 2 and 4 out of service (approximately 2 hours), MNR's effort to restore service to Tracks 2 and 4 and take Tracks 3 and 5 out of service (approximately 11 hours), and MNR's effort to restore service to two or more of Tracks 1, 3 and 5 (approximately 11 hours).		
9A	Tracks 2 & 4 Continuous Weekend	Saturday 0001 to Monday 0430
9B	Track 1 & 3 Continuous Weekend	Saturday 0001 to Monday 0430
9C	Track 5 Continuous Weekend	Saturday 0001 to Monday 0430

The following outages are available, but cannot be guaranteed, for the construction of Catenary (reference Volume 2, Subset 6, Stage drawings GS-1A to GS-4D). For scheduling purposes, the Contractor should anticipate up to one shift per week will be cancelled or disallowed by MNR. The times provided are inclusive of MNR's effort to prepare their facilities for the Contractor's operations, as well as MNR's effort to restore their facilities prior to resuming regular operations.

Stage	Outage	Time
1A, 3C, 3G	Track 4 Off-Peak Night	0100 – 0430
1A	Track 6 Off-Peak Days	0930 – 1500
2A, 2F, 2H	Tracks 5 and 7 Off-Peak Nights	0100 – 0430
2B, 2G, 3J	4-Track Weekend Night Outage	0001 – 0430
2C	Track 6 Off-Peak Days	0930 – 1500
2D, 3B, 3C, 3D, 3G, 3H	Tracks 4 & 2 Off-Peak Nights	0100 – 0430
2D	Tracks 4, 2 & 1 Weekend Nights	0001 – 0430
2D, 2E, 3A, 3B, 3D, 3E, 3H, 3I	Tracks 2 & 1 Off-Peak Nights	0100 – 0430
2E, 3A, 3E, 3F	Tracks 1 & 3 Off-Peak Nights	0100 – 0430
2E, 2F	Tracks 3 & 5 Off-Peak Nights	0100 – 0430
2E	Tracks 2, 1 & 3 Weekend Nights	0001 – 0430
2H	Track 5 Off-Peak Nights	0100 – 0430
2G	Track 5 Continuous Weekend	Saturday 0001 to Monday 0430
3A, 3E, 3I	Track 1 Off-Peak Night	0100 – 0430
3B, 3D, 3H	Track 2 Off-Peak Night	0100 – 0430
3F	Track 3 Off-Peak Night	0100 – 0430
3F	Track 3 & 5 Off-Peak Night	0100 – 0430
3G	Track 4 & 6 Off-Peak Nights	0100 – 0430
4A, 4C	Track 7 Off-Peak Day	0930 – 1500
4A	Tracks 7 & 9 Off-Peak Day	0930 – 1500
4A	Tracks 5 & 7 Continuous Weekend	Saturday 0001 to Monday 0430
4B, 4D	Tracks 5, 7 & 9 Continuous Weekend	Saturday 0001 to Monday 0430
Limited Use	Four-Track Weekend Night Outage	0001 – 0430

Note: Weekend night is either a Friday or Saturday night.

NOTES:

1. a. The time periods shown above should be considered allowable track outage times. These times will be subject to availability of MNR protective service staff and MNR operational needs. For scheduling purposes, the Contractor should anticipate up to one shift per week will be cancelled or disallowed by MNR.
- b. The Contractor's plan for demolition, erection, and any operation adjacent to or within the Railroad Right of Way shall be submitted to the Engineer for Railroad approval, prior to start of work.
- c. With the exception of the July 4, 2019 Holiday, no full track and/or power outages will be permitted on weekends either immediately before or after major holidays, or on any weekend between Thanksgiving and New Year's Day.

- d. The track outage periods shown above are the times that the track(s) may be taken out of train service. Refer to Section 1.05.06(1)(e)(3) for additional restrictions regarding power outages requiring de-energizing, grounding and re-energizing of the wires.
 - e. In accordance with FRA Rule 214.336, should the Contractor require a track outage and require the use of hi-rail equipment on that track, the adjacent track(s) must also be taken out of service.
- 2. All work involving rail, ties, and other track components on active tracks, unless specifically designated otherwise within the contract, will be performed by the Contractor. The Contractor may not remove abandoned (out of service) track unless given prior written approval from the Railroad and the Engineer.
 - 3. The Contractor shall assume that the wires and rails of the Railroad will be energized at all times.

1.08.07 - Determination of Contract Time: *Delete the second, third, and fourth paragraphs of 1.08.07 and replace with the following:*

“When the Contract time is stated on a calendar-day basis, that time shall be the number of consecutive calendar days contained in the Contract period designated in the Contract, INCLUDING the time period from each December 1 through the following March 31. The Contract time will begin to run on the date designated in the Engineer's “Notice to Proceed” as the date for commencement of the Project, and the time will be computed as herein provided on a consecutive-day basis, including all Saturdays, Sundays, holidays, and non-work days.”

Article 1.08.13 - Acceptance of Work and Termination of the Contractor's Responsibility: *Replace the entire Article 1.08.13 with the following:*

The Contractor's responsibility for non-administrative Project work will be considered terminated when the final inspection has been held, any required additional work and final cleaning-up have been completed, all final operation and maintenance manuals have been submitted, and all of the Contractor's equipment and construction signs have been removed from the Project site. When these requirements have been met to the satisfaction of the Engineer, the Commissioner will accept the work by certifying in writing to the Contractor, that the non-administrative Project work has been satisfactorily completed.

ITEM NO. 0101176A - DISPOSAL OF PCB WASTE

Description:

Work under this item shall consist of the loading, transportation and final off-site disposal of polychlorinated biphenyl-contaminated material (PCB Waste), excluding dewatering fluids, that may be generated from various excavations within the PCB Areas of Environmental Concern (PCB AOECs). PCBs in concentrations at or above 1 part per million (ppm) have been documented within the PCB AOECs. In the event that PCBs are detected in concentrations at or above 1 ppm during the disposal characterization under Item 0202315A, "Disposal of Controlled Materials," the transportation and disposal of PCB Waste shall be conducted under this Item. The PCB Waste shall be loaded into lined dump trailers or lined roll-off trailers from the existing temporary waste stockpile area (WSA), transported to, and disposed of at a permitted disposal facility listed herein.

The Contractor must use one or more of the following Department-approved disposal facilities for the disposal of PCB Waste:

Clean Harbors of Braintree, Inc. 1 Hill Avenue Braintree, MA 02184 Attn: John Mattson Phone: (781) 380-7100 ext 7130 Fax: (781) 380-7193	Environmental Quality Company Wayne Disposal Facility 49350 North I-94 Service Drive Belleville, MI 48111 Attn: Erin Gore Phone: (734) 697-2200 Fax: (734) 699-3499
Cycle Chem (aka General Chemical Corp.) 217 South First Street Elizabeth, NJ, 07206 Attn: Gordon Mayfield Phone: (908) 354-0210 Fax: (908) 355-0562	Envirosafe Corporation Northeast 263 Howard Street Lowell, MA 01852 Attn: Michael J. Hoyer Phone: (978) 453-7772 Fax: (978) 453-7775

Construction Methods:

A. Submittals

The Contractor shall submit in writing, within seven (7) days after discovery of PCB concentrations at or above 1 ppm:

1. A letter listing the names of the disposal facilities (from the list above) which the Contractor will use to receive PCB Waste from this Project;
2. A copy of the facility acceptance criteria and facility sampling frequency requirements from each facility.

No facility may be substituted for the one(s) designated in the Contractor's submittal without the Engineer's prior approval. If the material cannot be accepted by any of the Contractor's designated facilities, the Department will supply the Contractor with the name(s) of other acceptable facilities.

B. Material Disposal

The Contractor shall obtain and complete all paperwork necessary to arrange for material disposal (such as disposal facility waste profile sheets). It is solely the Contractor's responsibility to coordinate the disposal of PCB Waste with its selected disposal facility(s). Upon receipt of the final approval from the facility, the Contractor shall arrange for the loading, transport and disposal of the PCB Waste in accordance with all federal and state regulations. **No claim will be considered based on the failure of the Contractor's selected disposal facility(s) to meet the Contractor's production rate or for the Contractor's failure to select sufficient facilities to meet its production rate.**

Disposal characterization sampling of the Controlled Materials will be conducted under Item 0202315A, "Disposal of Controlled Materials." If PCBs are detected at concentrations at or above 1 ppm, the materials will be disposed of as PCB Waste. If additional characterization data for the PCB Waste is required by the disposal facility, the Engineer will sample materials at a frequency established by the selected disposal facilities. The Contractor shall designate to the Engineer which facility it intends to use prior to samples being taken. The Contractor is hereby notified that laboratory turnaround time is expected to be fifteen (15) working days. Turnaround time is the period of time beginning when the Contractor notifies the Engineer which facility it intends to use and that the bin is full and ready for sampling and ending with the Contractor's receipt of the laboratory analytical results. Any change of intended disposal facility may prompt the need to resample and will therefore restart the time required for laboratory turnaround. The laboratory will furnish such results to the Engineer. Upon receipt, the Engineer will make available to the Contractor the results of the final waste characterization determinations. **No delay claim will be considered based upon the Contractor's failure to accommodate the laboratory turnaround time as identified above.**

All manifests or bills of lading to accompany the transportation of the PCB Waste shall be prepared by the Contractor and signed by an authorized Department representative, as Generator, for each truck load of material that leaves the site. The Contractor shall forward the appropriate original copies of all manifests or bills of lading to the Engineer the same day the material leaves the Project.

A load-specific certificate of disposal, signed by the authorized agent representing the disposal facility, shall be obtained by the Contractor and promptly delivered to the Engineer for each load.

C. Material Transportation

In addition to all pertinent federal, state and local laws or regulatory agency polices, the Contractor shall adhere to the following precautions during the transport of PCB Waste off-site:

1. Prior to leaving the site, PCB Waste is to be loaded into lined containers and covered sufficiently to preclude the loss of material during transport and is to remain covered until the arrival at the selected disposal facility.
2. All vehicles departing the site are to be properly logged to show the vehicle identification, driver's name, time of departure, destination, and approximate volume, and contents of materials carried.
3. No materials shall leave the site unless a disposal facility willing to accept all of the material being transported has agreed to accept the type and quantity of waste.

D. Equipment Decontamination

All equipment shall be provided to the work site free of gross contamination. The Engineer may prohibit from the site any equipment that in his opinion has not been thoroughly decontaminated prior to arrival. Any decontamination of the Contractor's equipment prior to arrival at the site shall be at the expense of the Contractor. The Contractor is prohibited from decontaminating equipment on the Project that has not been thoroughly decontaminated prior to arrival.

The Contractor shall furnish labor, materials, tools and equipment for decontamination of all equipment and supplies that are used to handle PCB Waste. Decontamination shall be conducted at an area designated by the Engineer and shall be required prior to equipment and supplies leaving the Project, between stages of the work, and between work in different AOECs.

Decontamination of equipment shall be done using double wash/rinse procedures. All surfaces that have contacted PCB Wastes shall be scrubbed with a detergent/water solution and then rinsed clean with potable water. The Contractor shall repeat the process with a detergent/water solution wash and clean water rinse. Decontamination shall be conducted in the decontamination pad in order to collect the detergent/water wash and rinse water. The decontamination water shall then be containerized, and sampled for disposal, in accordance with federal and state regulations. Once the double wash/rinse decontamination procedure is complete, equipment may leave the Project or be used in other areas of the site.

The Contractor shall be responsible for the collection and disposal of any liquid wastes that may be generated by its decontamination activities in accordance with applicable regulations.

Method of Measurement:

The work of "DISPOSAL OF PCB WASTE" will be measured for payment as the actual net weight in tons of material delivered to the disposal facility. Such determinations shall be made by measuring each hauling vehicle on the certified permanent scales at the disposal facility. Total weight will be the summation of weight bills issued by the facility specific to this Project.

Equipment decontamination, the collection of residuals, and the collection and disposal of liquids generated during equipment decontamination activities will not be measured separately for payment.

Basis of Payment:

This work will be paid for at the Contract unit price, which shall include the loading of PCB Waste into lined dump trailers and transportation from the existing temporary WSA to the disposal facility; the fees paid to the facility for disposal; the preparation of all related paperwork; and all equipment, materials, tools, and labor incidental to this work. **This unit price will be applicable to all of the listed disposal facilities and will not change for the duration of the Project.**

This price shall also include equipment decontamination; the collection of solid residuals generated during decontamination and placement of such material into the lined dump trailer; and the collection and disposal of liquids generated during equipment decontamination activities.

Pay Item	Pay Unit
Disposal of PCB Waste	Ton