



Maura Healey, Governor  
Kimberley Driscoll, Lieutenant Governor  
Phillip Eng, Interim MassDOT Secretary  
Jonathan L. Gulliver, Undersecretary and Highway Administrator



Proposal No. 609409-133236

March 26, 2026

**ADDENDUM NO. 4**

To Prospective Bidders and Others on:

**SPRINGFIELD**  
**Federal Aid Project No. HIP(NGB)-003S(924)**  
**Bridge Replacement, S-24-016, Armory Street over CSX Mainline**  
**& S-24-026, Armory Street over Abandoned CSX**

OPENING OF PROPOSALS POSTPONED TO:      TUESDAY, APRIL 14, 2026 at 2:00 P.M.

Transmitting changes to the Contract Documents as follows:

<u>QUESTIONS AND RESPONSES:</u>	Seventeen pages.
<u>COVER:</u>	Revised cover page.
<u>DOCUMENT 00104:</u>	Revised page 1.
<u>DOCUMENT A00801:</u>	Revised page 111, 114, 115, and 185. Inserted new pages 153.1 and 153.2.
<u>DOCUMENT B00420:</u>	Revised pages 1 and 9 through 27.
<u>PLANS:</u>	Revised plan sheets 15 and 41 of 204.

**Note:** Response to Bidder Question 33 alters plan sheet 191 of 204. Official plan changes will be made at a later date.

Take note of the above, substitute the revised pages and plan sheets for the originals, insert the new pages in the proper order, and acknowledge Addendum No. 4 in your Expedite Proposal file before submitting your bid.

Very truly yours,

Eric M. Cardone, P.E.  
Construction Contracts Engineer

EMC/mac  
cc Anthony Christakis, Project Manager

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**Railroad Construction Company, Inc., email dated Thursday, March 12, 2026**

Question 22) Contract Drawings 91 and 161 note that bottom of existing abutment footing elevation can be found in a table, but it does not seem to be provided. Please confirm the depth/height of the existing abutments for both of the existing bridges.

Response 22) *This response will be provided in a future addendum.*

Question 23) Please confirm the elevation of the bottom of the existing wall #7 to remain.

Response 23) *This response will be provided in a future addendum.*

Question 24) Please confirm that the depth of the Albany St. Retaining Wall shown on drawing 93 extends down past the bottom of the footing for the proposed 30" Column at the South Abutment.

Response 24) The depth of the wall based on original engineering drawings is shown to scale in section 18 on sheet 47.

Question 25) Please confirm that the intended bottom elevation for all closure wall pours should match the top of the concrete socket on the adjacent pile. There are conflicting details such as the Wall No.3 elevation on drawing 85, and Wall No. 5 elevation on drawing 156 that depict the closure walls to an undetermined elevation below the top of the pile concrete socket.

Response 25) *This response will be provided in a future addendum.*

Question 26) Please confirm what specific structural concrete items are included under 904.3?

Response 26) *This response will be provided in a future addendum.*

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Question 27) Specification section 995.1/995.2 makes reference to a concrete abutment extension which his not included under these sections. No reference is made of that description in the contract plans. Please specifically identify which drawing or item of work that this applies to.

Response 27) *This response will be provided in a future addendum.*

Question 28) Contract drawing 156, Wall No. 5 plan seems to indicate that the sidewalk/moment slab detail extends past the last pile. Please confirm if this is the case, which section should be used and how far past the last pile will it extend.

Response 28) *This response will be provided in a future addendum.*

Question 29) Please provide a clearer detail of the connection between GB#4 and Wall No. 6 on contract drawing 155. It appears that the barrier at the sidewalk turns perpendicular to the road and possibly sits on top of the closure pour? Additionally, on this same plan there is a detail for cast in place concrete coping. Please confirm where this detail applies – should this be along the length of Wall No. 6?

Response 29) GB#4 and Wall No. 6 are structurally independent structures and not connected mechanically. The barrier and sidewalk on Wall No. 6 do not turn perpendicular to the wall, please refer to the plan view on contract drawing 155. The return is solely to retain soil at the GB#4 shelf supporting the water line (see Wall No. 6 Elevation). The elevation view of wall no. 6 is showing the sidewalk as if a section cut line extended along the face of wall no. 6 into the gravity block portion of the wall. The connection detail for the closure pour to wall no. 6 is following the detail shown on contract drawing 164. Yes, the coping detail on top of Wall No. 6 is to apply to the top of wall no. 6 as called out in the elevation view for this wall. The coping is required only at Wall No. 6 because there is no moment slab along Wall No. 6.

Question 30) Please confirm which specific structural elements are included under item 910.2.

Response 30) *This response will be provided in a future addendum.*

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**J.F. White Contracting Company, email dated Monday, March 16, 2026**

Question 31) Please clarify the following Contract Bid Items:

1. 371.06 – 6 INCH Coupling – Bid Quantity=4
2. 371.08 – 8” INCH Coupling – Bid Quantity = 9
3. 371.12 – 12” INCH Coupling – Bid Quantity = 38

Are the couplings Retainer Glands (AKA - Megalugs) or are they Solid Sleeves/Dresser Couplings? The bid quantities would indicate Retainer Glands but no description is given for the couplings in the special provisions.

Response 31) Couplings are intended for existing to new water works connections and are solid sleeve. See Springfield Water and Sewer Commission “Guidelines and Policies” Chapter 6 for installation requirements, SWSC “Material Specifications” Section 3.13.11 for a list of coupling makes and models approved for use by SWSC, and SWSC “Standard Details” for drawing details.

**MIG-C.A.C. Bridge Builders JV, LLC, email dated Monday, March 16, 2026**

Question 32) Are Highway Transition Ends to be paid under item(s) 995.01/995.02, or item 904.3?

Response 32) See page A00801 - 231.

Question 33) Highway Transition End: Bridge No. S-24-026, is it Cast-in-Place (per drawing 25 of 61), or Precast (per drawing 61 of 61)?

Response 33) The highway transition end is to be cast in place. Official plan changes will be made at a later date.

Question 34) CP-PL2 Parapet on Bridges: is it paid under item 904.3 or item(s) 995.01/995.02? It is not specified whether it is paid under the bridge Lump Sum Items (per pg A00801-229).

Response 34) See page A00801 - 231.

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Question 35) There is no Special Provision for item 904.3, please clarify what 5000 PSI-3/4 Inch-685 HP Concrete is paid under item 904.3.

Response 35) *This response will be provided in a future addendum.*

Question 36) Item 909.5 Rapid Set Hardening Concrete Repairs: There is no corresponding Concrete Excavation item for the same (usually 127.4/127.41). How is Concrete Excavation for item 909.5 paid?

Response 36) This item is used for any needed deck patching required for the portion of the bridge deck being used for maintaining traffic.

Question 37) Item 140 Bridge Excavation: Engineers estimated quantity is 2,010 CY. For the breakdown provided under each respective Bridge Structure: Bridge No. S-24-016 (drawing 62 of 204) = 1,254 CY; Bridge No. S-24-026 (drawing 132 of 204) = 1,627 CY; this would total 2,881 CY. Please advise if the Engineer's estimated quantity is correct, or if the respective Bridge Quantities for item No. 140 is correct.

Response 37) The respective bridge quantities for Item 140. is correct.

Question 38) Item 904.33 Precast Concrete Panels: is the Cast-in-Place coping shown on drawing 155 of 204 for precast panel wall #6, paid for under item 904.33 or item 904.3?

Response 38) *This response will be provided in a future addendum.*

Question 39) Item 309: preliminary estimate of quantities (pg A00802-6) states that expansion joints on bridges are paid for under item 309. In special provision item 309 there is no specified type of expansion joint listed. Please provide a material specification for expansion joints.

Response 39) See page A00801 - 113.

Question 40) Can there be a separate expansion joint bid item provided, instead of payment falling under item 309, since the price per pound of expansion joints are far greater/disproportionate to standard fittings that fall under item 309?

Response 40) See revised pages A00801 - 111 and B00420 - 11.

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**E.T.& L. Corp., email dated Wednesday, March 18, 2026**

Question 41) In the special provisions under items 995.01 and 995.02, it states “Concrete abutment extensions / crashwalls and wingwalls / return walls shall be paid for separately, and are not included in this Lump Sum”. The special provisions also state “Concrete shall be used to construct all concrete work, including cast-in-place deck slab, end diaphragms, abutment pile caps, backwalls, curtain walls and keeper blocks, abutment column and column footing (pile cap), approach slabs, stem walls at the gravity block/crash walls/return walls and retaining wall footings, CP-PL2 barriers, shared-use-path moment slab and sidewalk moment slab, highway guardrail transitions and at those areas as designated by the Engineer, and/or areas designated on the Plans”. Please specify the payment items for the following: gravity block walls, crash walls, return walls, retaining wall footings, sidewalk moment slab on retaining walls, shared-use path moment slabs on retaining walls, and wall closure pours.

Response 41) *This response will be provided in a future addendum.*

Question 42) The special provisions for Item 210.11 references Standard Detail S-02.66 for the proposed doghouse sewer manhole. Sewer detail S-02.66 references a 32” composite locking cover, not a doghouse sewer manhole. A detail for doghouse manholes could not be found in the Springfield Water and Sewer Commission Standard Details. Can a detail be provided for this item?

Response 42) The description in the specs is as follows: “The doghouse manhole in Armory Street shall be comprised of precast units with a cast in place bottom slab and the invert constructed in conformance with Standard Detail S-02.66”. The only reference in the Standard Details to precast units for sewer manholes is Standard Detail S-02.0, which is the intended detail for the precast units required under Item 210.11, with the bottom of the bottom unit formed to accommodate the existing sewer pipe. The “associated reference details” stated in the spec also apply. The cast in place bottom slab thickness is not stated, but the 6” thickness together with the foundation requirements shown on the same standard detail will be sufficient. The reference to the lock down cover is stated as S-02.65, which is correct – not S-02.66. There should be no need for an additional detail.

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**MAS Building & Bridge, Inc., email dated Wednesday, March 18, 2026**

Question 43) Please clarify if this project will follow the 2025 Edition of the Standard Specifications as stated in the CDSP or if the newly published 2026 Standards apply.

Response 43) See page A00801 - 1.

Question 44) Please clarify the basis of measurement for Bid Item 201, "Catch Basin," as the Massachusetts Department of Transportation Standard Specifications – 2026 Edition lists a standard depth of 7.5 feet while the 2025 Edition lists 6.5 feet. Which edition governs for measurement/payment on this project?

Response 44) The 2025 Edition using 6.5 feet as the standard depth is the contract measurement.

Question 45) Sheet 95 of 204, Solider Pile Notes, Note 3 states "Observation of soldier pile drilled shaft installation should be made by a Geotechnical Engineer to verify soil layering and engineering properties and assumptions made in the design analysis." Please confirm this is by the Engineer of Record and not the Contractor. If this is intended to be by the Contractor, please 1) provide a summary of soil engineering properties and assumptions made in the design analysis, 2) confirm if this is required at each wall location, and 3) clarify if this is a full-time onsite requirement during drilling operations or just for the first piles installed.

Response 45) The geotechnical observation of the soldier pile construction will be performed by the Engineer of Record and not by the Contractor.

Question 46) Contract Drawing Sheet 14 of 204 – "Drainage and Utility Plan" shows two 30" sewer mains connecting to existing sanitary sewer MH #119, which are also shown as capped in Inset A. Please confirm that the limits of the existing 30" sewer main requiring pre- and post-construction survey are between SMH #119 and the existing downstream manhole to the south (toward the tracks), approximately ±35 LF.

Response 46) This is correct.

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Question 47) For the existing utilities to be abandoned and/or removed, please consider adding bid item 227.4 “Masonry Plug.”

Response 47) Where existing drain pipe remains between drainage structures to be removed, it appears certain that sections of that drain pipe will need to be excavated out of the way to enable installation of proposed work. Masonry plugs appear impractical.

Question 48) Refer to drawing sheet 15 of 205 “Drainage and Utility Plan.” The sewer manhole at STA 17+94 LT shows an existing sewer pipe (Invert G) approaching from the west of the structure. Please provide information regarding this pipe and if the alignment continues to/over the bridge.

Response 48) The sewer pipe does not continue over the bridge. Information is not available for this pipe but is believed to be a service connection for 145 Armory Street.

Question 49) Refer to bid item 250.15 “15 Inch Polyvinyl Chloride Sanitary Sewer Pipe.” While the spec. item is for 15” PVC, drawing detail Insert A of Sheet 15 shows 12” PVC for proposed sewer line. Please clarify the size of piping that passes through the soiler pile wall.

Response 49) See revised plan sheet 15 of 204.

Question 50) Refer to drawing sheet 15 of 205 “Drainage and Utility Plan.” Please clarify if the existing hydrant at STA 15+44 RT and its pertinent service shall be removed. If hydrant is to be removed, please consider adding bid item 376.3 “Hydrant Removed and Stacked.”

Response 50) The existing hydrant is noted REM and is not wanted by SWSC. When no item is provided for disposal, per Item 120.1, disposal is measured and paid for under Item 120.1.

Question 51) Please provide information on the required coating for Bid Item 325.18 – 18” Steel Pipe Casing for Water Pipe.

Response 51) The carrier pipe is insulated and jacketed. A coating is not required.

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Question 52) Note on Contract Drawing Sheet No. 41 of 204 states that Verizon (VZ) will provide six (6) 4" FRE conduits for both the temporary and final configurations for the Contractor to install. The conduits for the other utilities (Comcast, Crown Castle, and Eversource Electric) are identified as Type NM (UL), furnished and installed by the Contractor for both temporary and final configurations. Please confirm these non-VZ conduits beneath the bridges is also intended to be Type NM (UL) rather than FRE and will be paid for under those Bid Items. If FRE conduits are required, please include the appropriate pay items.

Response 52) See new page A00801 - 153.1 and revised plan sheet 41. The only FRE conduits in the project are Verizon and Verizon will provide them to the project. All other conduits for all other utilities are Type NM.

Question 53) The note on Contract Drawing Sheet No. 41 of 204 and the PUC Form indicate that Verizon will provide six (6) 4-inch FRE conduits for both the temporary and final configurations for the Contractor to install. Please consider adding a pay item for this work.

Response 53) See Response 52.

Question 54) Note 5 on Contract Drawing Sheet No. 149 of 204 states that "AT&T shall break the line of the conduit to achieve the desired slack during temporary relocation and install split casing after micro pile work is complete at Bridge S-24-026." Please clarify whether AT&T will be responsible for temporarily shifting the conduits, or if this work is to be performed by the Contractor. If the Contractor is responsible for moving the conduit, please clarify under which pay item this work would be compensated.

Response 54) AT&T is responsible for temporarily shifting their conduits.

Question 55) Please clarify the intent and location of work associated with Pay Item 806.3 - 3 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL.

Response 55) This item is for traffic signal conduit at the Albany Street and Taylor Street intersections.

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Question 56) Please confirm Eversource Gas will provide the utility supports (i.e., rollers and U-bolts) required for the relocation of the existing 10" gas main on Bridge No. S-24-026. If not, please provide the required support details for bidding purposes.

Response 56) Confirmed. The Contractor is responsible for the steel support framing and any u-bolts or rollers will be provided by Eversource.

Question 57) Please provide a detail for the installation of the three relocated existing light poles within the moment slab.

Response 57) *This response will be provided in a future addendum.*

Question 58) There is an existing oil tank at the back of the 176 Armory building to be demolished. Is the removal to be included under bid item #112.1?

Response 58) Yes.

Question 59) For bidding purposes, can you identify what material is expected/assumed to contain asbestos under bid item 182.2, and can you please clarify in the measurement of payment how the asbestos removal is to be paid? By LF of individual conduit/pipe, or of duct bank, etc.?

Response 59) Measurement for payment is by the foot of the complete installation, meaning individual conduits within a concrete encased duct bank are not measured separately. The total content of duct bank disposal, if any of the conduits contains asbestos within the tested limits, is measured by the foot of duct bank disposed.

Question 60) For 994.1 Temporary Protective Shielding by the SF, the basis of payment says it will be paid for both bridges. The first paragraph of this specification section states it is only to be used at bridge S-24-16. Please clarify if the item is intended to be used for both bridges?

Response 60) This item is only intended for bridge S-24-16 to protect the active railroad line below.

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Question 61) Wall #1 Elevation detail on sheet 83/204 does not show the lightweight aggregate transition to the north from the end of the return wall. Please confirm this is correct.

Response 61) This is correct.

Question 62) Wall #6 and GB #4 Wall details on Sheet 155/204 do not show the lightweight fill transitioning to the South from the end of the return wall, while the details for Wall #3 and GB#2 Wall on sheet 85/204 do. Is this correct?

Response 62) *This response will be provided in a future addendum.*

Question 63) What is the flow rate for the 15” VCP sewer line to be bypassed?

Response 63) *This response will be provided in a future addendum.*

**Capone Iron, email dated Thursday, March 18, 2026**

Question 64) In reviewing the contract specifications and drawings, we have identified a potential discrepancy requiring clarification. On specification page 491, the following is noted: “The steel superstructure shall be designed per the AREMA MRE, Chapter 15, unless otherwise required by CSX or herein. 1. Fracture critical member material, fabrication, welding, inspection, and testing shall be in accordance with the AREMA MRE, Chapter 15.”

However, we did not find any references to fracture critical member requirements on the contract drawings.

Please confirm whether the project is required to comply with fracture critical member criteria per AREMA Chapter 15. If so, kindly identify the applicable members and any additional detailing, fabrication, inspection or testing requirements that should be incorporated.

Response 64) There are no fracture critical members on this project.

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**Atlantic Bridge & Engineering, email dated Thursday, March 19, 2026**

Question 65) For Bridge No. S-24-026 – Armory St. over CSX RR (Abandoned) please advise on the following:

- a. For the Stage 1 bridge construction, the existing 4” AT&T conduit between existing girders E2 & E3 is to be temporarily supported in place while the new bridge steel is erected around it (Reference Br. Sheets 18/19 of 61). The permanent intermediate U2 diaphragms (Ref. Br. Sheet 46 of 61) in the bay with this conduit (GR5/GR6) are single piece shop welded frames which cannot be installed over/around this existing conduit. Please advise.
- b. For the Stage 1C bridge construction, the Eversource Electric conduits are to be relocated from behind the traffic barrier on the existing bridge deck to below the new bridge deck on temporary supports between existing girder E4 and new girder GR6 (Ref. Br. Sheet 19 of 61). In Stage 2B these conduits are then final supported onto the new diaphragms between girders GR6 and GR7 (Ref. Br. Sheet 20 of 61). The permanent U2 diaphragms in this bay are single piece shop welded frames which cannot be installed over/around these conduits. It should also be noted that as this is the phase line bay, these diaphragm connections will not be able to be completed until after the Stage 2 deck slab has been constructed. Please advise.
- c. For the Stage 2A bridge construction (Ref. Br. Sheet 20 of 61), the existing Comcast, Crown Castle and Verizon conduits are to be relocated from their existing bridge bays onto temporary supports between existing girders E8 & E9 (New girders GR11 and GR12). These conduits are then to be relocated to their final locations in the bays between new girders GR9/GR10 & GR10/GR11 once this portion of the Stage 2 bridge steel has been erected. This sequence would also require the installation of new girder GR12 in a separate mobilization once these conduits are relocated as the permanent U2 intermediate diaphragms in the bay between GR11/GR12 (which are required for the support/stability of GR12) would not be able to be installed with the existing conduits in place. Thus please confirm that this is the intended sequence for the Stage 2 erection work.

Response 65) *This response will be provided in a future addendum.*

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Question 66) For Bridge No. S-24-016 Armory St. over CSX RR Mainline please advise on the following:

- a. For the Stage 2A bridge construction (Ref. Br. Sheet 19 of 70), the existing Comcast and Crown Castle conduits are to be relocated from their existing bridge bays onto temporary supports between existing girders E7 & E8 (New girders GR10 and GR11). The permanent intermediate U2 diaphragms (Ref. Br. Sheet 52 of 70) in the bay with these conduits are single piece shop welded frames which cannot be installed over/around these existing conduits. Please advise.
- b. For Bridge No. S-24-016 Armory St. over CSX RR Mainline please advise on the following: For the Stage 1B bridge construction (Ref. Br. Sheet 18 of 70), the Eversource Electric conduits are shown to be relocated from behind the traffic barrier on the existing bridge deck to below the new bridge deck onto supports that are cantilevered off of the side of new bridge girder GR6. Then in Stage 2B (Ref. Br. Sheet 19 of 70) these conduits are shown to be final supported onto the new permanent diaphragms between girders GR6 and GR7. The permanent U2 diaphragms in this bay are single piece shop welded frames which cannot be installed over/around these existing conduits. Thus, are these Stage 1B cantilevered supports intended to be part of the new permanent diaphragms with their remaining portion to be completed during the Stage 2 erection work? Please advise. It is also be noted that as this is the phase line bay, the permanent diaphragm connections will not be able to be completed until after the Stage 2 deck slab has been constructed.

Response 66) *This response will be provided in a future addendum.*

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**Railroad Construction Company, Inc., email dated Thursday, March 19, 2026**

Question 67) Sheet 36 of Bridge S-24-016 drawings and Sheet 35 of Bridge S-24-024 drawings indicate limits for Lightweight Aggregate that slope at 45 degree angles from excavation bottom to subgrade. However, the horizontal limits to which the lightweight aggregate would reach subgrade do not necessarily align with the lightweight aggregate limits shown on Sheets 23 & 25 of the S-24-016 set and Sheets 24 & 25 of the S-24-024 set. See the following two questions related to this:

- a. Please clarify whether bidders should determine the horizontal limits of lightweight aggregate based on Sheets 36 (016) and 35 (024) or by Sheets 23 & 25 (016) and 24 & 25 (024).
- b. If the answer to a) above is that the limits are determined by the plan sheet drawings, please confirm that the lightweight aggregate is to be backfilled at a 45 degree angle up to horizontal limits shown on the plans and not necessarily backfilled to subgrade at the horizontal limits shown on the plans.

Response 67) a. All of these sheets should be used to determine the limits of the lightweight aggregate. Sheets 36 (016) and 35 (026) define the horizontal limits perpendicular to the wall and the elevation views on Sheets 23 & 25 (016) and 24 & 25 (026) define the horizontal limits parallel to the wall.

- b. See Response 67a. Yes, the slope up is 45 degrees in all directions away from the walls.

Question 68) Based on the geometry of the bridges and the backfill limits detailed on Sheet 36 of Bridge S-24-016 and Sheet 35 of Bridge S-24-024, it appears that there may be some overlap between gravel borrow backfill areas and lightweight aggregate backfill areas. If there are any overlapping areas, please clarify which backfill material takes precedence over the other.

Response 68) If there are any overlaps, the lightweight aggregate backfill would take precedence.

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Question 69) Section 140.80 of Spec Section 140 states that the horizontal pay limits for the Bridge Excavation pay item include the vertical limits of crushed stone or gravel borrow. On this project, we also have lightweight aggregate that is being backfilled behind SP&L walls and bridge foundations, but there is no mention of that material in the standard spec. Please confirm that the excavation required for the lightweight aggregate installation behind walls and bridge foundations will also be paid for as part of Pay Item #140 Bridge Excavation.

Response 69) The pay limits for Bridge Excavation on this project were applied to crushed stone, gravel borrow, and lightweight aggregate.

**Railroad Construction Company, Inc., email dated Thursday, March 19, 2026**

Question 70) Contract drawing sheets 19 and 20 show 3 billboards that are to be removed and reset. Please provide bid item for these billboards and electrical details if lighting is to be restored.

Response 70) *This response will be provided in a future addendum.*

**J.F. White Contracting Company, email dated Monday, March 23, 2026**

Question 71) We have reviewed and compared the information in the soldier pile & lagging walls chart on sheet 34 of 70 for Bridge S-024-016 versus the elevation views of Wall #1 on sheet 23 of 70 , Wall # 2 on sheet 24 of 70 and Wall #3 on sheet 25 of 70. We have found differences in the following quantities:

- A.) Length of Soldier Piles.
- B.) Length of the galvanized portion of the soldier piles.
- C.) Square foot quantity of precast panels

Do the chart values or the elevation views of the wall govern?

Response 71) *This response will be provided in a future addendum.*

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Question 72) We have reviewed and compared the information in the soldier pile & lagging walls chart on sheet 35 of 61 for Bridge S-024-026 versus the elevation views of Wall #4 on sheet 24 of 61 , Wall # 6 on sheet 25 of 61 and Wall #5 on sheet 26 of 61.

We have found differences in the following quantities:

- A.) Length of Soldier Piles.
- B.) Length of the galvanized portion of the soldier piles.
- C.) Square foot quantity of precast panels.

Do the chart values or the elevation views of the wall govern?

Response 72) *This response will be provided in a future addendum.*

**Atlantic Bridge & Engineering, Inc., email dated Tuesday, March 24, 2026**

Question 73) For Bridge No. S-24-016 Armory St. over CSX RR Mainline please confirm that Shear Stud Connectors are not required to be installed on Kicker Beams KB1, KB2, KB3A & KB3B (Ref. Br. Sheets 49, 50 & 61 of 70).

Response 73) *This response will be provided in a future addendum.*

**Railroad Construction Company, Inc., email dated Tuesday, March 24, 2026**

Question 74) Section 100.91 Pre & Post Construction Survey state that following existing structures that will remain shall be surveyed and documented prior to construction. This includes the abandoned 30-inch sewer pipes at Armory Street over CSX Mainline. Sheet 94 of 204 under the table for Soldier Piles and Lagging Walls under Wall 1B calls for bottom of shaft to be elevation 103.93. The layout shows the proposed soldier pile shafts in direct conflict of the 30 inch sewer with an invert elevation of 117.1'. Please confirm that since this section of sewer is abandoned that it is permitted to drill through the 30 inch abandoned sewer line. If it is not permitted, please advise.

Response 74) *This response will be provided in a future addendum.*

**SPRINGFIELD**  
**Federal Aid Project No. HIP(NGB)-003S(924)**  
**Bridge Replacement, S-24-016, Armory Street over CSX Mainline**  
**& S-24-026, Armory Street over Abandoned CSX**

Questions and Responses

Addendum No. 4, March 26, 2026

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**Railroad Construction Company, Inc., email dated Tuesday, March 24, 2026**

Question 75) Please provide required qualifications for the Contractor's Public Outreach Specialist and duties that will be required for Bid Item 149.2.

Response 75) *This response will be provided in a future addendum.*

**MIG Corporation, Inc., email dated Tuesday, March 24, 2026**

Question 76) Item 904.33 Precast Concrete Panels: Engineer's estimated quantity is 4,581 SF. Our takeoff indicates there is 3,600 SF. Please review/confirm the contract bid quantity for item 904.33.

Response 76) *This response will be provided in a future addendum.*

Question 77) Wall line for retaining wall 5 at Bridge S-24-026, and retaining wall 2 at Bridge S-24-016 are in the same location as existing Easterly retaining walls. The existing retaining walls are not shown on the contract cross-sections. Removing existing walls will undermine the roadway above unless temporary sheeting or shoring is installed to support the road during removal and new wall construction. How does Support of Excavation get paid when removing existing wall structures?

Response 77) *This response will be provided in a future addendum.*

Question 78) Is the removal of existing concrete retaining walls paid for under Item 127 or 127.1? How is the metal rail on same existing retaining walls paid for?

Response 78) *This response will be provided in a future addendum.*

Question 79) Is the concrete coping on retaining wall 6 at Bridge S-24-026 paid under Item 904.33 or 904.3?

Response 79) *This response will be provided in a future addendum.*

**SPRINGFIELD**  
**Federal Aid Project No. HIP(NGB)-003S(924)**  
**Bridge Replacement, S-24-016, Armory Street over CSX Mainline**  
**& S-24-026, Armory Street over Abandoned CSX**

Questions and Responses

Addendum No. 4, March 26, 2026

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**Railroad Construction Company, Inc., email dated Wednesday, March 25, 2026**

Question 80) Pay Item #140 on the Price Proposal Form has a quantity of 2,010 cubic yards. When adding the Bridge Excavation quantities from Sheet 2 for both bridge drawing sets, the total quantity is 2,881 cubic yards. Please clarify if the pay quantity on the Price Proposal Form is correct.

Response 80) *This response will be provided in a future addendum.*

Question 81) The response to RFI #10 in Addendum #2 seems to say that the Contractor is required to provide gravel borrow backfill if excavation is performed outside the gravel borrow pay limits as long as that excavation is in back of structures. Therefore, suitable excavated material cannot be placed in locations outside the gravel borrow pay limits. See the following two questions related to this:

- a. Can the Authority please confirm that this is the correct interpretation of that RFI response?
- b. If so, will Contractor be paid for this gravel borrow placed outside the gravel borrow pay limits shown in the bridge drawings, given that the Authority is requiring it to be gravel borrow?

Response 81) *This response will be provided in a future addendum.*

Question 82) The response to RFI #11 in Addendum #2 seems to say that the Contractor is required to provide either gravel borrow backfill or lightweight backfill if excavation is performed outside the lightweight backfill pay limits. Therefore, suitable excavated material cannot be placed in locations outside the lightweight backfill pay limits. See the following two questions related to this:

- a. Can the Authority please confirm that this is the correct interpretation of that RFI response?
- b. If so, will Contractor be paid for this gravel borrow or lightweight backfill placed outside the lightweight backfill pay limits shown in the bridge drawings, given that the Authority is requiring it to be either gravel borrow or lightweight backfill?

Response 82) *This response will be provided in a future addendum.*

COMMONWEALTH OF MASSACHUSETTS




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**CONTRACT DOCUMENTS  
AND SPECIAL PROVISIONS**

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PROPOSAL NO.	609409-133236
P.V. =	\$51,304,000.00
PLANS	YES

FOR

**Federal Aid Project No. HIP(NGB)-003S(924)  
Bridge Replacement, S-24-016, Armory Street over CSX Mainline  
& S-24-026, Armory Street over Abandoned CSX**

**in the City of**

**SPRINGFIELD**

In accordance with the STANDARD SPECIFICATIONS  
for HIGHWAYS and BRIDGES dated 2025

④① This Proposal to be opened and read:

**TUESDAY, APRIL 14, 2026 at 2:00 P.M.**

④ Addendum No. 4, March 26, 2026

① Addendum No. 1, March 3, 2026

DOCUMENT 00104

**NOTICE TO CONTRACTORS**

Electronic proposals for the following project will be received through the internet using [www.bidx.com](http://www.bidx.com) until the date and time stated below and will be posted on [www.bidx.com](http://www.bidx.com) forthwith after the bid submission deadline. No paper copies of bids will be accepted. All Bidders must have a valid vendor code issued by MassDOT in order to bid on projects. Bidders need to apply for a Digital ID at least 14 days prior to a scheduled bid opening date with [www.bidx.com](http://www.bidx.com).

④①

**TUESDAY, APRIL 14, 2026 at 2:00 P.M. \*\*****SPRINGFIELD****Federal Aid Project No. HIP(NGB)-003S(924)****Bridge Replacement, S-24-016, Armory Street over CSX Mainline****& S-24-026, Armory Street over Abandoned CSX****\*\*Date Subject to Change**PROJECT VALUE = \$51,304,000.00

Bidders must be pre-qualified by the Department in the BRIDGE - CONSTRUCTION category to bid on the above project. An award will not be made to a Contractor who is not pre-qualified by the Department prior to the opening of Proposals.

All prospective Bidders who intend to bid on this project must obtain "Request Proposal Form (R109)". The blank "Request Proposal Form (R109)" can be obtained at: <https://www.mass.gov/prequalification-of-horizontal-construction-firms>.

All prospective Bidders must complete and e-mail an electronic copy of "Request Proposal Form (R109)" to the MassDOT Director of Prequalification for approval: [prequal.r109@dot.state.ma.us](mailto:prequal.r109@dot.state.ma.us).

Proposal documents for official bidders are posted on [www.bidx.com](http://www.bidx.com). Other interested parties may receive informational Contract Documents containing the Plans and Special Provisions, free of charge.

Bids will be considered, and the contract awarded in accordance with statutes governing such contracts in accordance with Massachusetts General Laws Chapter 30 § 39M.

The Project Bids File Attachments folder for proposals at [www.bidx.com](http://www.bidx.com) shall be used for submitting at the time of bid required information such as the Bid Bond required document, and other documents that may be requested in the proposal.

## ④ Addendum No. 4, March 26, 2026

<u>ITEM 302.122</u>	<u>12 INCH DUCTILE IRON WATER PIPE CLASS 56</u>	<u>FOOT</u>
<u>ITEM 303.06</u>	<u>6 INCH DUCTILE IRON WATER PIPE</u> <u>(MECHANICAL JOINT)</u>	<u>FOOT</u>
<u>ITEM 303.08</u>	<u>8 INCH DUCTILE IRON WATER PIPE</u> <u>(MECHANICAL JOINT)</u>	<u>FOOT</u>
<u>ITEM 303.12</u>	<u>12 INCH DUCTILE IRON WATER PIPE</u> <u>(MECHANICAL JOINT)</u>	<u>FOOT</u>
<u>ITEM 309.</u>	<u>DUCTILE IRON FITTINGS FOR WATER PIPE</u>	<u>POUND</u>
<u>ITEM 325.18</u>	<u>18 INCH STEEL PIPE CASING FOR WATER PIPE</u>	<u>FOOT</u>
<u>ITEM 347.2</u>	<u>2 INCH COPPER TUBING TYPE K</u>	<u>FOOT</u>
<u>ITEM 348.1</u>	<u>1 INCH COPPER PIPE TYPE L</u>	<u>FOOT</u>
<u>ITEM 348.2</u>	<u>2 INCH COPPER PIPE TYPE L</u>	<u>FOOT</u>
<u>ITEM 350.06</u>	<u>6 INCH GATE AND GATE BOX</u>	<u>EACH</u>
<u>ITEM 350.08</u>	<u>8 INCH GATE AND GATE BOX</u>	<u>EACH</u>
<u>ITEM 350.12</u>	<u>12 INCH GATE AND GATE BOX</u>	<u>EACH</u>
<u>ITEM 357.12</u>	<u>12 INCH GATE BOX</u>	<u>EACH</u>
<u>ITEM 358.</u>	<u>GATE BOX ADJUSTED</u>	<u>EACH</u>
<u>ITEM 363.1</u>	<u>1 INCH CORPORATION COCK</u>	<u>EACH</u>
<u>ITEM 363.2</u>	<u>2 INCH CORPORATION COCK</u>	<u>EACH</u>
<u>ITEM 371.06</u>	<u>6 INCH COUPLING</u>	<u>EACH</u>
<u>ITEM 371.08</u>	<u>8 INCH COUPLING</u>	<u>EACH</u>
<u>ITEM 371.12</u>	<u>12 INCH COUPLING</u>	<u>EACH</u>
<u>ITEM 373.12</u>	<u>12 INCH WATER PIPE INSULATION</u>	<u>FOOT</u>
<u>ITEM 373.18</u>	<u>18 INCH WATER PIPE INSULATION</u>	<u>FOOT</u>
④ <u>ITEM 377.12</u>	<u>12 INCH WATER MAIN EXPANSION JOINT</u>	<u>EACH</u>
<u>ITEM 379.2</u>	<u>2 INCH AIR VALVE ASSEMBLY</u>	<u>EACH</u>
<u>ITEM 381.01</u>	<u>SERVICE BOX (MUNICIPAL STANDARD)</u>	<u>EACH</u>
<u>ITEM 381.3</u>	<u>SERVICE BOX ADJUSTED</u>	<u>EACH</u>
<u>ITEM 384.</u>	<u>CURB STOP</u>	<u>EACH</u>

The work under these Items shall conform to the relevant provisions of Subsection 301 of the Standard Specifications, the requirements of the Springfield Water and Sewer Commission, and the following:

The work under these items shall include all labor, materials and equipment necessary to make alterations to existing water mains and to install new water mains including pipe, pipe fittings, insulation, casings, sleeves, spacers, restrained joints, thrust blocks, plugs, caps, valves, water service connections and hydrant removal.

Also included is all labor, materials, and equipment to provide uninterrupted water distribution throughout construction including all temporary work required for disinfection and testing. All active gate boxes and service boxes within the limits of construction to remain shall be adjusted, as required, to be flush with temporary and proposed grades. If any of the existing castings, fittings, or valves that are intended to be adjusted or reused are found to be unfit for continued use as determined by the Engineer, the Contractor shall remove and discard this material and furnish and install new materials of the same size and type under the appropriate items. All valves on abandoned sections of pipe shall have their gate boxes completely removed and the cavity filled.

④ Addendum No. 4, March 26, 2026

**ITEMS 302.122 through 384.** (Continued)

All bolts and other fastenings shall be cast in place in the concrete as opposed to drill and grout.

Support details on the walls and bridges shall allow for final vertical profile adjustment of the pipe after the pipe is initially placed. Following fine tuning of the vertical adjustment the space shall be grouted.

Final acceptance of all water works installations will be subject to approval by the Commission.

AS-BUILT plans shall be prepared by the Contractor for all water work installations. The design engineer will only provide Autocadd files of the pertinent plans for Contractor use, but will not provide certification of the installation. All provisions of the AS-BUILT plan requirements by SWSC shall be Contractor responsibilities.

**METHOD OF MEASUREMENT**

Items 302.122, 303.06, 303.08, 303.12, 325.18, 347.2, 348.1, 348.2, 373.12, and 373.18 will be measured for payment by the Foot.

Item 309. will be measured for payment by the Pound.

- ④ Items 350.06, 350.08, 350.12, 357.12, 358., 363.1, 363.2, 371.06, 371.08, 371.12, 377.12, 379.2, 381.01, 381.3, 384. will be measured for payment by the Each.

**BASIS OF PAYMENT**

Items 302.122, 303.06, 303.08, 303.12, 325.18, 347.2, 348.1, 348.2, 373.12, and 373.18 will be paid for at the respective Contract unit prices per Foot, which price shall include all labor, materials, equipment, and all incidental costs required to complete the work.

Item 309. will be paid for at the Contract unit price per Pound, which price shall include all labor, materials, equipment, and all incidental costs required to complete the work.

- ④ Items 350.06, 350.08, 350.12, 357.12, 358., 363.1, 363.2, 371.06, 371.08, 371.12, 377.12, 379.2, 381.01, 381.3, 384. will be paid for at the respective Contract unit prices per Each, which price shall include all labor, materials, equipment, and all incidental costs required to complete the work.

No separate payment will be made for all forms, approvals, inspection costs, licenses and permits, AS-BUILT plans, all costs resulting from SWSC coordination included in their Guidelines and Policies, all excavation, regardless of depth, backfill, bedding, cleaning, testing, disinfection, but all costs in connection therewith shall be included in the Contract unit price bid. (If the Special Provision is for more than one item, include item title and number reference here.)

Appurtenances for the water pipe passing through the bridge abutment backwalls shall be included under the respective bridge lump sum items.

- ④ Addendum No. 4, March 26, 2026
- ③ Addendum No. 3, March 20, 2026

**ITEMS 302.122 through 384.** (Continued)

Supports, saddles, rollers, bolts, grout, hardware, and all other materials not specifically itemized for payment for the water main installation on the gravity blocks, walls and bridges shall be considered included in the total contract price.

Removal and disposal of existing water works, including inactive gate boxes abandoned water works including those not specifically noted that must be removed to install new work, shall be incidental to the total contract bid price.

The insulated steel tee in the steel casing pipe for accessing the air release assembly shall not be measured for payment, but the cost for all work associated with its fabrication and installation shall be incidental to the cost of the steel containment pipe.

Temporary caps required for construction staging, disinfection and testing will not be measured for payment, but will be considered incidental to the total contract price.

- ③ Concrete thrust blocks shall be installed in accordance with the Commission's Standard Details or as directed and at locations as directed by the Commission, with measurement and payment made under Item 903.
- ④ Materials and work not specifically noted for payment but required to complete the water works system, including by not limited to connection and restraint hardware for close piece pipe connections with new pipe, will have no separate payment but such payment shall be considered included in the contract bid items provided. Close pieces shall be measured and paid for by the foot, installed, under the respective water main pipe item of the adjacent connected pipe.

Addendum No. 4, March 26, 2026

**ITEM 805.4**                      **4 INCH FRE CONDUIT INSTALLATION**                      **FOOT**

The work under this item shall conform to Subsection 801 of the Standard Specifications and the following:

Verizon will supply FRE conduits and conduit racks that the contractor shall install on the two bridges. The contractor is responsible for materials and installation of transition connections to PVC conduit off the bridges and for miscellaneous materials that may be required to secure the racks to the bridge utility support members.

The Contractor shall install the FRE conduits on the two bridges subject to Verizon approval prior to payment.

**METHOD OF MEASUREMENT**

Item 805.4 will be measured for payment by the foot of FRE conduit installed, complete in place.

**BASIS OF PAYMENT**

Item 805.4 will be paid for at the contract bid price per foot, which price shall be full compensation for all materials, labor, equipment, and incidental costs required to complete the work.

Addendum No. 4, March 26, 2026

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④ Addendum No. 4, March 26, 2026

**ITEM 904.33****PRECAST CONCRETE PANELS****SQUARE FOOT**

Work under this item shall conform to the relevant provisions of Subsection 901 and Section M4.09.0: Precast, Prestressed, and Prefabricated Concrete Products of the Standard Specifications and the following:

The work under this Item consist of furnishing and installing precast concrete panels for the soldier pile and lagging walls shown on the plans.

The precast panels shall consist of 5000 psi, 3/4", 685 HP Cement Concrete.

Reinforcing steel shall be epoxy coated and the panels shall have recessed lifting hooks. The Contractor shall patch over the recessed lifting hooks on the top panel with Cement Mortar.

Cement Mortar shall meet the requirements of M4.02.15

Color samples of the precast panels shall be submitted to the Engineer for review. The purpose for the color samples is to match as closely as practical the other HP Concrete mixes on the project including the guardrail transitions, sidewalks and concrete slabs (moment slabs) over the wing walls.

**METHOD OF MEASUREMENT**

Item 904.33 will be measured for payment by the Square Foot of precast concrete panel, complete in place.

**BASIS OF PAYMENT**

- ④ Item 904.33 will be paid for at the Contract unit price per Square Foot (exposed height), which price shall include all labor, materials, tools, equipment, staging, access, removals, storage, the cost of all field measurements and survey required, and incidental costs required to complete the work.

No separate payment will be made for Cement Mortar, but all costs in connection therewith shall be included in the Contract unit price bid.

④ Addendum No. 4, March 26, 2026

DOCUMENT B00420

PROPOSAL

SPRINGFIELD

For: **Bridge Replacement, S-24-016, Armory Street over CSX Mainline  
& S-24-026, Armory Street over Abandoned CSX**

COMMONWEALTH OF MASSACHUSETTS

LOCATION

The work referred to herein is in the City of Springfield in Hampden County, in the Commonwealth of Massachusetts, and is shown by the locus map (Document 00331) in the Proposal Pamphlet, the work locations extend as follows:

Armory Street

**Beginning – Station 11+00.00 +/-**

**Ending –Station 19+44.00 +/-**

Albany Street

**Limit of Work – Station 41+30.00 +/-**

Taylor Street

**Limit of Work – Station 50+65.00**

- ④ The contract prices shall include the furnishing of all materials (except as otherwise herein specified), the performing of all the labor requisite or proper, the providing of all necessary machinery, tools, apparatus and other means of construction, the doing of all the abovementioned work in the manner set forth, described and shown in the specifications and on the drawings for the work, and in the form of contract, and the completion thereof within **2266 CALENDAR DAYS** upon receipt of a Notice to Proceed, except that if the completion date falls between December 1 and March 15 then the same number of days beyond December 1st will be extended after March 15<sup>th</sup>.

The Work of this project is described by the following Items and quantities.

Project # 609409		Contract # 133236		
Location : SPRINGFIELD				
Description : Bridge Replacement, S-24-016, Armory Street over CSX Mainline & S-24-026, Armory Street over Abandoned CSX				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
303.08	160	8 INCH DUCTILE IRON WATER PIPE (MECHANICAL JOINT)  AT _____ PER FOOT		
303.12	320	12 INCH DUCTILE IRON WATER PIPE (MECHANICAL JOINT)  AT _____ PER FOOT		
309.	4,500	DUCTILE IRON FITTINGS FOR WATER PIPE  AT _____ PER POUND		
325.18	410	18 INCH STEEL PIPE CASING FOR WATER PIPE  AT _____ PER FOOT		
347.2	40	2 INCH COPPER TUBING TYPE K  AT _____ PER FOOT		
348.1	40	1 INCH COPPER PIPE TYPE L  AT _____ PER FOOT		
348.2	40	2 INCH COPPER PIPE TYPE L  AT _____ PER FOOT		
350.06	1	6 INCH GATE AND GATE BOX  AT _____ EACH		
350.08	3	8 INCH GATE AND GATE BOX  AT _____ EACH		

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Project # 609409		Contract # 133236		
Location : SPRINGFIELD				
Description : Bridge Replacement, S-24-016, Armory Street over CSX Mainline & S-24-026, Armory Street over Abandoned CSX				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
350.12	3	12 INCH GATE AND GATE BOX  AT _____ EACH		
357.12	1	12 INCH GATE BOX  AT _____ EACH		
358.	22	GATE BOX ADJUSTED  AT _____ EACH		
363.1	2	1 INCH CORPORATION COCK  AT _____ EACH		
363.2	5	2 INCH CORPORATION COCK  AT _____ EACH		
④ 371.06	2	6 INCH COUPLING  AT _____ EACH		
④ 371.08	2	8 INCH COUPLING  AT _____ EACH		
④ 371.12	4	12 INCH COUPLING  AT _____ EACH		
373.12	320	12 INCH WATER PIPE INSULATION  AT _____ PER FOOT		

Project # 609409		Contract # 133236		
Location : SPRINGFIELD				
Description : Bridge Replacement, S-24-016, Armory Street over CSX Mainline & S-24-026, Armory Street over Abandoned CSX				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
373.18	440	18 INCH WATER PIPE INSULATION  AT _____ PER FOOT		
377.12	2	12 INCH WATER MAIN EXPANSION JOINT  AT _____ EACH		
379.2	2	2 INCH AIR RELEASE VALVE ASSEMBLY  AT _____ EACH		
381.01	1	SERVICE BOX (MUNICIPAL STANDARD)  AT _____ EACH		
381.3	3	SERVICE BOX ADJUSTED  AT _____ EACH		
384.	1	CURB STOP  AT _____ EACH		
402.	200	DENSE GRADED CRUSHED STONE FOR SUB-BASE  AT _____ PER CUBIC YARD		
415.2	1,700	PAVEMENT FINE MILLING  AT _____ PER SQUARE YARD		
431.	60	HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE  AT _____ PER SQUARE YARD		

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Project # 609409		Contract # 133236		
Location : SPRINGFIELD				
Description : Bridge Replacement, S-24-016, Armory Street over CSX Mainline & S-24-026, Armory Street over Abandoned CSX				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
443.	11	WATER FOR ROADWAY DUST CONTROL  AT _____ PER 1000 GALLONS		
450.231	280	SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC - 12.5 - P)  AT _____ PER TON		
450.311	190	SUPERPAVE INTERMEDIATE COURSE - 12.5 POLYMER (SIC -12.5 - P)  AT _____ PER TON		
450.42	370	SUPERPAVE BASE COURSE - 37.5 (SBC - 37.5)  AT _____ PER TON		
450.611	80	SUPERPAVE BRIDGE SURFACE COURSE - 12.5 POLYMER (SSC-B - 12.5 - P)  AT _____ PER TON		
450.711	106	SUPERPAVE BRIDGE PROTECTIVE COURSE - 12.5POLYMER (SPC-B - 12.5 - P)  AT _____ PER TON		
451.	80	HMA FOR PATCHING  AT _____ PER TON		
452.	590	ASPHALT EMULSION FOR TACK COAT  AT _____ PER GALLON		
453.	1,720	HMA JOINT ADHESIVE  AT _____ PER FOOT		

Project # 609409		Contract # 133236		
Location : SPRINGFIELD				
Description : Bridge Replacement, S-24-016, Armory Street over CSX Mainline & S-24-026, Armory Street over Abandoned CSX				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
458.7	2,223	LIGHTWEIGHT AGGREGATE  AT _____ PER CUBIC YARD		
472.	60	TEMPORARY ASPHALT PATCHING  AT _____ PER TON		
482.5	150	SAWCUTTING ASPHALT PAVEMENT FOR BOX WIDENING  AT _____ PER FOOT		
506.1	110	GRANITE CURB TYPE VB - CURVED  AT _____ PER FOOT		
509.	90	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - STRAIGHT  AT _____ PER FOOT		
509.1	30	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - CURVED  AT _____ PER FOOT		
580.	190	CURB REMOVED AND RESET  AT _____ PER FOOT		
582.	4	CURB CORNER REMOVED AND RESET  AT _____ EACH		
590.	325	CURB REMOVED AND STACKED  AT _____ PER FOOT		

Project # 609409		Contract # 133236		
Location : SPRINGFIELD				
Description : Bridge Replacement, S-24-016, Armory Street over CSX Mainline & S-24-026, Armory Street over Abandoned CSX				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
594.	364	CURB REMOVED AND DISCARDED  AT _____ PER FOOT		
620.13	20	GUARDRAIL, TL-3 (SINGLE FACED)  AT _____ PER FOOT		
620.33	50	GUARDRAIL - CURVED, TL-3 (SINGLE FACED)  AT _____ PER FOOT		
627.2	1	GUARDRAIL ROUNDED END UNIT  AT _____ EACH		
628.24	2	TRANSITION TO BRIDGE RAIL  AT _____ EACH		
628.25	1	TRANSITION TO THRIE BEAM  AT _____ EACH		
628.314	2	TEMPORARY IMPACT ATTENUATOR, REDIRECTIVE, TL-2  AT _____ EACH		
628.4	2	TEMPORARY IMPACT ATTENUATOR, REMOVED AND RESET  AT _____ EACH		
630.2	135	HIGHWAY GUARD REMOVED AND DISCARDED  AT _____ PER FOOT		

Project # 609409		Contract # 133236		
Location : SPRINGFIELD				
Description : Bridge Replacement, S-24-016, Armory Street over CSX Mainline & S-24-026, Armory Street over Abandoned CSX				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
645.172	90	72 INCH CHAIN LINK FENCE (PIPE TOP RAIL) VINYL COATED (LINE POST OPTION)  AT _____ PER FOOT		
647.084	14	84 INCH CHAIN LINK FENCE (PIPE TOP RAIL) W/BARB (LINE POST OPTION)  AT _____ PER FOOT		
651.096	28	96 INCH CHAIN LINK GATE WITH GATE POSTS AND BARBED WIRE  AT _____ PER FOOT		
652.072	4	72 INCH CHAIN LINK FENCE END POST  AT _____ EACH		
652.084	1	84 INCH CHAIN LINK FENCE END POST  AT _____ EACH		
652.096	3	96 INCH CHAIN LINK FENCE END POST  AT _____ EACH		
653.072	3	72 INCH CHAIN LINK FENCE CORNER OR INTERMEDIATE BRACE POST  AT _____ EACH		
654.096	15	96 INCH CHAIN LINK FENCE FABRIC  AT _____ PER FOOT		
657.	400	TEMPORARY FENCE  AT _____ PER FOOT		

Project # 609409		Contract # 133236		
Location : SPRINGFIELD				
Description : Bridge Replacement, S-24-016, Armory Street over CSX Mainline & S-24-026, Armory Street over Abandoned CSX				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
657.5	400	TEMPORARY FENCE REMOVED AND RESET  AT _____ PER FOOT		
665.	360	CHAIN LINK FENCE REMOVED AND STACKED  AT _____ PER FOOT		
666.	20	CHAIN LINK FENCE REMOVED AND RESET  AT _____ PER FOOT		
671.	1	FENCE GATE AND GATE POSTS REMOVED AND STACKED  AT _____ EACH		
697.1	6	SILT SACK  AT _____ EACH		
698.3	10	GEOTEXTILE FABRIC FOR SEPARATION  AT _____ PER SQUARE YARD		
701.	190	CEMENT CONCRETE SIDEWALK  AT _____ PER SQUARE YARD		
701.1	90	CEMENT CONCRETE SIDEWALK AT DRIVEWAYS  AT _____ PER SQUARE YARD		
701.2	110	CEMENT CONCRETE PEDESTRIAN CURB RAMP  AT _____ PER SQUARE YARD		

Project # 609409		Contract # 133236		
Location : SPRINGFIELD				
Description : Bridge Replacement, S-24-016, Armory Street over CSX Mainline & S-24-026, Armory Street over Abandoned CSX				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
702.	30	HOT MIX ASPHALT SIDEWALK OR DRIVEWAY  AT _____ PER TON		
710.3	6	BOUND - LETTERED GRANITE  AT _____ EACH		
710.4	13	BOUND - PLAIN GRANITE  AT _____ EACH		
722.1	1	SCHEDULE OF OPERATIONS (TYPE A) - FIXED PRICE \$200,000  AT Two Hundred Thousand Dollars LUMP SUM	\$200,000.00	\$200,000.00
740.	73	ENGINEER'S FIELD OFFICE AND EQUIPMENT (TYPE A)  AT _____ PER MONTH		
748.	1	MOBILIZATION  AT _____ LUMP SUM		
751.1	50	LOAM FOR LAWNS  AT _____ PER CUBIC YARD		
751.7	80	COMPOST BLANKET  AT _____ PER CUBIC YARD		
756.	1	NPDES STORMWATER POLLUTION PREVENTION PLAN  AT _____ LUMP SUM		

Project # 609409		Contract # 133236		
Location : SPRINGFIELD				
Description : Bridge Replacement, S-24-016, Armory Street over CSX Mainline & S-24-026, Armory Street over Abandoned CSX				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
765.	400	SEEDING  AT _____ PER SQUARE YARD		
765.2	1,220	SEEDING FOR SHORT TERM EROSION CONTROL  AT _____ PER SQUARE YARD		
765.21	10	ANNUAL COVER CROP FOR NATIVE SEEDING  AT _____ PER POUND		
765.453	10	WOODLAND EDGE SHADE MIX  AT _____ PER POUND		
765.635	820	NATIVE SEEDING AND ESTABLISHMENT  AT _____ PER SQUARE YARD		
767.121	760	SEDIMENT CONTROL BARRIER  AT _____ PER FOOT		
769.	90	PAVEMENT MILLING MULCH UNDER GUARD RAIL  AT _____ PER FOOT		
804.2	80	2 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC (UL)  AT _____ PER FOOT		
804.3	480	3 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC -(UL)  AT _____ PER FOOT		

Project # 609409		Contract # 133236		
Location : SPRINGFIELD				
Description : Bridge Replacement, S-24-016, Armory Street over CSX Mainline & S-24-026, Armory Street over Abandoned CSX				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
804.4	2,520	4 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC -(UL)  AT _____ PER FOOT		
804.5	370	5 INCH ELECTRICAL CONDUIT TYPE NM-PLASTIC (UL)  AT _____ PER FOOT		
805.4	1,150	FRE CONDUIT INSTALLATION  AT _____ PER FOOT		
806.3	210	3 INCH ELECTRICAL CONDUIT TYPE RM - GALVANIZED STEEL  AT _____ PER FOOT		
809.41	2,730	TEMPORARY 4 INCH ELECTRICAL CONDUIT  AT _____ PER FOOT		
809.42	430	TEMPORARY CONDUIT CASING PIPE  AT _____ PER FOOT		
810.2	350	4-4 INCH AND 2-5 INCH DUCT BANK  AT _____ PER FOOT		
810.6	300	6-4 INCH DUCT BANK  AT _____ PER FOOT		
811.31	14	PULL BOX 12 X 12 INCHES - SD2.031  AT _____ EACH		

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Project # 609409		Contract # 133236		
Location : SPRINGFIELD				
Description : Bridge Replacement, S-24-016, Armory Street over CSX Mainline & S-24-026, Armory Street over Abandoned CSX				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
811.35	5	PULL BOX ADJUSTED  AT _____ EACH		
816.01	1	TRAFFIC SIGNAL RECONSTRUCTION LOCATION NO. 1  AT _____ LUMP SUM		
816.02	1	TRAFFIC SIGNAL RECONSTRUCTION LOCATION NO. 2  AT _____ LUMP SUM		
816.03	1	TRAFFIC SIGNAL RECONSTRUCTION LOCATION NO. 3  AT _____ LUMP SUM		
816.1	64	FIELD ADJUSTMENT OF EXISTING TRAFFIC SIGNAL TIMING  AT _____ PER HOUR		
816.2	50	TRAFFIC MONITORING AND ENGINEERING  AT _____ PER HOUR		
816.82	1	TEMPORARY TRAFFIC CONTROL SIGNAL LOCATION NO.2  AT _____ LUMP SUM		
816.83	1	TEMPORARY TRAFFIC CONTROL SIGNAL LOCATION NO.3  AT _____ LUMP SUM		
816.84	1	TEMPORARY TRAFFIC CONTROL SIGNAL LOCATION NO.4  AT _____ LUMP SUM		

Project # 609409		Contract # 133236		
Location : SPRINGFIELD				
Description : Bridge Replacement, S-24-016, Armory Street over CSX Mainline & S-24-026, Armory Street over Abandoned CSX				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
816.85	1	TEMPORARY TRAFFIC CONTROL SIGNAL LOCATION NO.5  AT _____ LUMP SUM		
823.70	3	HIGHWAY LIGHTING POLE AND LUMINAIRE REMOVED AND RESET  AT _____ EACH		
832.	80	WARNING-REGULATORY AND ROUTE MARKER - ALUMINUM PANEL (TYPE A)  AT _____ PER SQUARE FOOT		
833.7	1	DELINEATION FOR GUARD RAIL TERMINI  AT _____ EACH		
847.1	12	SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL  AT _____ EACH		
850.41	1,250	ROADWAY FLAGGER  AT _____ PER HOUR		
851.1	60	TRAFFIC CONES FOR TRAFFIC MANAGEMENT  AT _____ PER DAY		
852.	830	SAFETY SIGNING FOR TRAFFIC MANAGEMENT  AT _____ PER SQUARE FOOT		
852.11	550	TEMPORARY PEDESTRIAN BARRICADE  AT _____ PER FOOT		

Project # 609409		Contract # 133236		
Location : SPRINGFIELD				
Description : Bridge Replacement, S-24-016, Armory Street over CSX Mainline & S-24-026, Armory Street over Abandoned CSX				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
852.12	12	TEMPORARY PEDESTRIAN CURB RAMP  AT _____ EACH		
853.1	15	PORTABLE BREAKAWAY BARRICADE TYPE III  AT _____ EACH		
853.2	50	TEMPORARY BARRIER (TL-2)  AT _____ PER FOOT		
853.21	380	TEMPORARY BARRIER REMOVED AND RESET  AT _____ PER FOOT		
853.33	763	TEMPORARY BARRIER - LIMITED DEFLECTION (TL-3)  AT _____ PER FOOT		
853.8	70	TEMPORARY ILLUMINATION FOR WORK ZONE  AT _____ PER DAY		
854.016	3,120	TEMPORARY PAVING MARKINGS - 6 INCH (PAINTED)  AT _____ PER FOOT		
854.036	210	TEMPORARY PAVING MARKINGS - 6 INCH (TAPE)  AT _____ PER FOOT		
854.1	550	PAVEMENT MARKING REMOVAL  AT _____ PER SQUARE FOOT		

Project # 609409		Contract # 133236		
Location : SPRINGFIELD				
Description : Bridge Replacement, S-24-016, Armory Street over CSX Mainline & S-24-026, Armory Street over Abandoned CSX				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
856.12	4,510	PORTABLE CHANGEABLE MESSAGE SIGN  AT _____ PER DAY		
859.	8,100	REFLECTORIZED DRUM  AT _____ PER DAY		
859.1	20	REFLECTORIZED DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS  AT _____ PER DAY		
864.04	180	PAVEMENT ARROWS AND LEGENDS REFLECTORIZED WHITE (THERMOPLASTIC)  AT _____ PER SQUARE FOOT		
864.41	400	GREEN COLORIZED PAVEMENT MARKINGS  AT _____ PER SQUARE FOOT		
866.106	2,140	6 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)  AT _____ PER FOOT		
866.112	2,110	12 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)  AT _____ PER FOOT		
867.106	1,700	6 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)  AT _____ PER FOOT		
867.112	40	12 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)  AT _____ PER FOOT		

Project # 609409		Contract # 133236		
Location : SPRINGFIELD				
Description : Bridge Replacement, S-24-016, Armory Street over CSX Mainline & S-24-026, Armory Street over Abandoned CSX				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
874.	2	STREET NAME SIGN  AT _____ EACH		
874.41	22	TRAFFIC SIGN REMOVED AND DISCARDED  AT _____ EACH		
901.3	10	4000 PSI, 1.5 INCH, 565 CEMENT CONCRETE FOR POST FOUNDATION  AT _____ PER CUBIC YARD		
903.	10	3000 PSI, 1.5 INCH, 470 CEMENT CONCRETE  AT _____ PER CUBIC YARD		
904.	1	4000 PSI, 3/4 INCH, 610 CEMENT CONCRETE  AT _____ PER CUBIC YARD		
904.3	1,179	5000 PSI, 3/4 INCH, 685 HP CEMENT CONCRETE  AT _____ PER CUBIC YARD		
904.33	4,581	PRECAST CONCRETE PANELS  AT _____ PER SQUARE FOOT		
909.5	20	RAPID HARDENING CEMENTITIOUS PRODUCTS FOR CONCRETE REPAIRS  AT _____ PER CUBIC YARD		
910.2	121,772	STEEL REINFORCEMENT FOR STRUCTURES - COATED  AT _____ PER POUND		

Project # 609409		Contract # 133236		
Location : SPRINGFIELD				
Description : Bridge Replacement, S-24-016, Armory Street over CSX Mainline & S-24-026, Armory Street over Abandoned CSX				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
912.4	14	DRILLED AND GROUTED #4 DOWELS  AT _____ EACH		
912.5	104	DRILLED AND GROUTED #5 DOWELS  AT _____ EACH		
942.102	128	STEEL PILE HP 10 X 57  AT _____ PER FOOT		
942.283	1,474	STEEL PILE W18X283  AT _____ PER FOOT		
942.311	1,006	STEEL PILE W18X311  AT _____ PER FOOT		
942.89	1,119	STEEL PILE W16X89  AT _____ PER FOOT		
945.10	19,658	DRILLED MICROPILES  AT _____ PER FOOT		
945.101	2,940	DRILLED SHAFT EXCAVATION 3.0 FOOT DIAMETER  AT _____ PER FOOT		
945.301	45	OBSTRUCTION EXCAVATION 3.0 FOOT DIAMETER  AT _____ PER FOOT		

Project # 609409		Contract # 133236		
Location : SPRINGFIELD				
Description : Bridge Replacement, S-24-016, Armory Street over CSX Mainline & S-24-026, Armory Street over Abandoned CSX				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
945.501	2,940	DRILLED SHAFT 3.0 FOOT DIAMETER  AT _____ PER FOOT		
948.60	4	MICROPILE VERIFICATION LOAD TEST  AT _____ EACH		
948.61	16	MICROPILE PROOF LOAD TEST  AT _____ EACH		
951.1	720	GRANITE CORING  AT _____ PER FOOT		
951.2	720	STEEL SLEEVE/ CONCRETE CORING  AT _____ PER FOOT		
953.31	1	TEMPORARY EXCAVATION SUPPORT SYSTEM  AT _____ LUMP SUM		
970.	8,153	DAMP-PROOFING  AT _____ PER SQUARE FOOT		
975.4	368	PROTECTIVE SCREEN TYPE II  AT _____ PER FOOT		
975.5	150	ALUMINUM HANDRAIL  AT _____ PER FOOT		

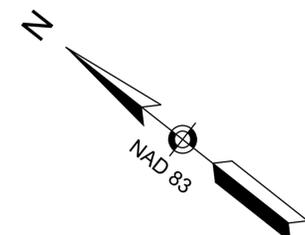
Project # 609409		Contract # 133236		
Location : SPRINGFIELD				
Description : Bridge Replacement, S-24-016, Armory Street over CSX Mainline & S-24-026, Armory Street over Abandoned CSX				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
992.33	1	TEMPORARY SUPPORT FOR UTILITIES - SYSTEM 1  AT _____ LUMP SUM		
992.34	1	TEMPORARY SUPPORT FOR UTILITIES - SYSTEM 2  AT _____ LUMP SUM		
992.35	1	TEMPORARY SUPPORT FOR UTILITIES - SYSTEM 3  AT _____ LUMP SUM		
992.36	1	TEMPORARY SUPPORT FOR UTILITIES - SYSTEM 4  AT _____ LUMP SUM		
994.1	6,930	TEMPORARY PROTECTIVE SHIELDING  AT _____ PER SQUARE FOOT		
995.01	1	BRIDGE STRUCTURE, BRIDGE NO. S-24-016  AT _____ LUMP SUM		
995.02	1	BRIDGE STRUCTURE, BRIDGE NO. S-24-026  AT _____ LUMP SUM		
<b>Total Qty:</b>		334,736.25		

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**SPRINGFIELD  
ARMORY STREET**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	HIP(NG)-003S(024)	15	204
PROJECT FILE NO.		609409	

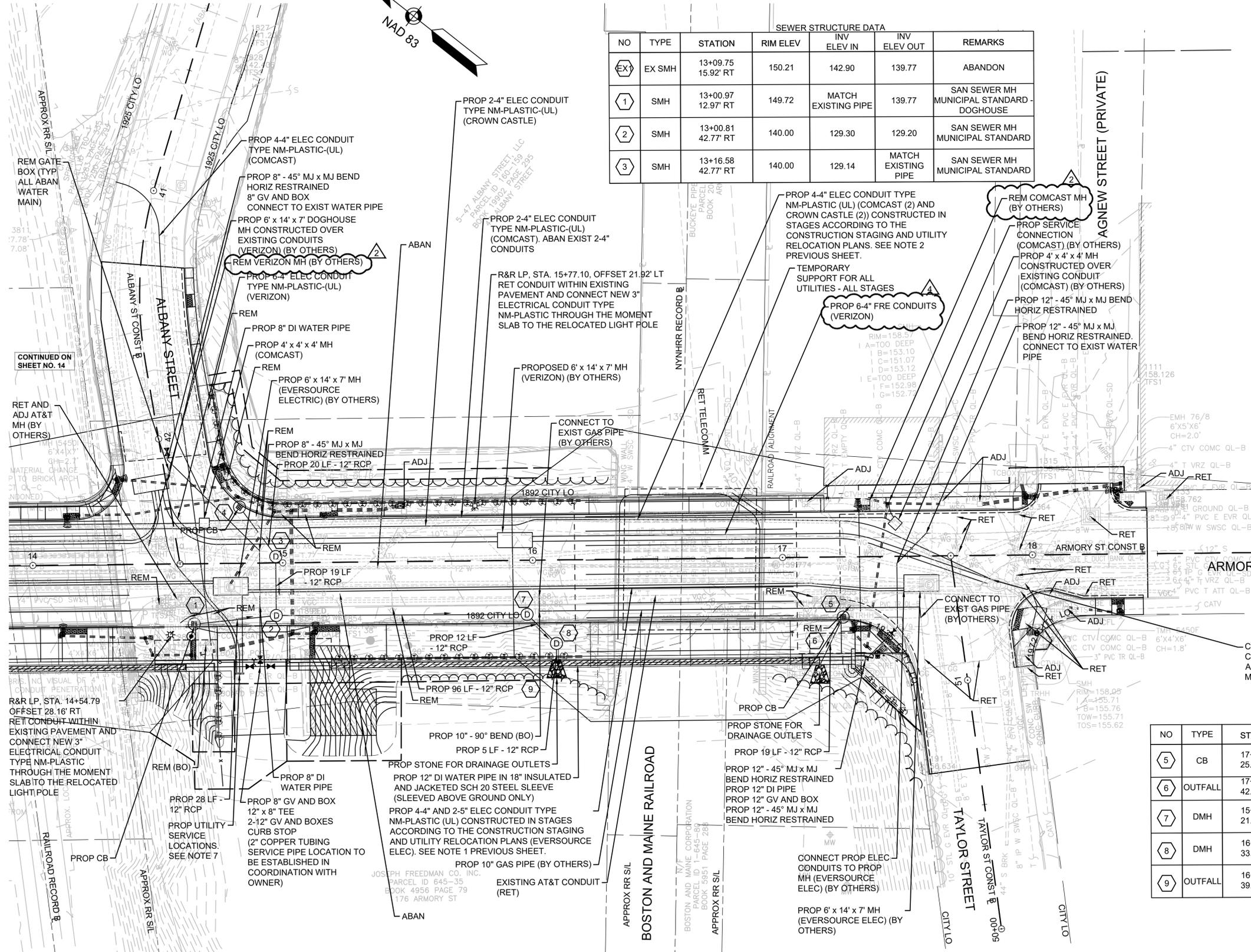
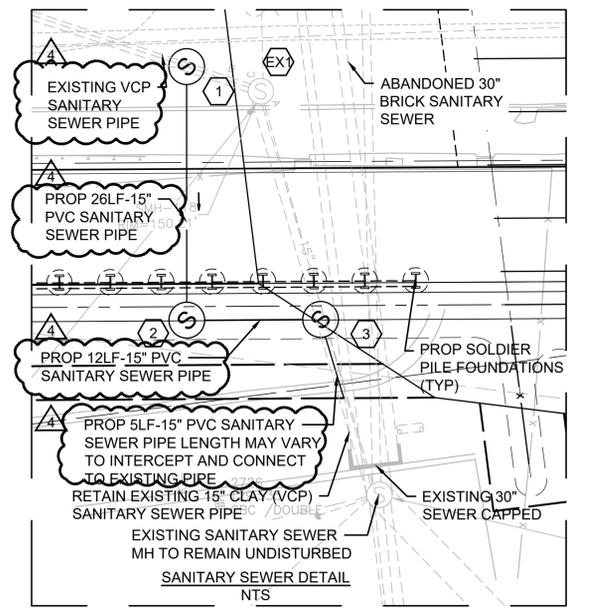
**DRAINAGE & UTILITY PLAN  
SHEET 2 OF 2**



**SEWER STRUCTURE DATA**

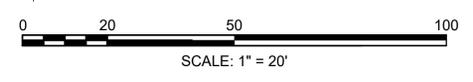
NO	TYPE	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
EX	EX SMH	13+09.75 15.92' RT	150.21	142.90	139.77	ABANDON
1	SMH	13+00.97 12.97' RT	149.72	MATCH EXISTING PIPE	139.77	SAN SEWER MH MUNICIPAL STANDARD - DOGHOUSE
2	SMH	13+00.81 42.77' RT	140.00	129.30	129.20	SAN SEWER MH MUNICIPAL STANDARD
3	SMH	13+16.58 42.77' RT	140.00	MATCH EXISTING PIPE		SAN SEWER MH MUNICIPAL STANDARD

**INSET A**



**DRAINAGE STRUCTURE DATA**

NO	TYPE	STATION	RIM ELEV	INV ELEV IN	INV ELEV OUT	REMARKS
5	CB	17+23.96 25.00' RT	158.56		6 151.06	3' SUMP AND HOOD 3 FLANGE FRAME FLAT TOP
6	OUTFALL	17+14.58 42.83' RT			149.64	
7	DMH	15+97.55 21.58' RT	157.92	2 147.90	8 147.80	FLAT TOP
8	DMH	16+09.19 33.26' RT	159.13	7 147.70	9 147.60	FLAT TOP
9	OUTFALL	16+09.16 39.67' RT			147.50	

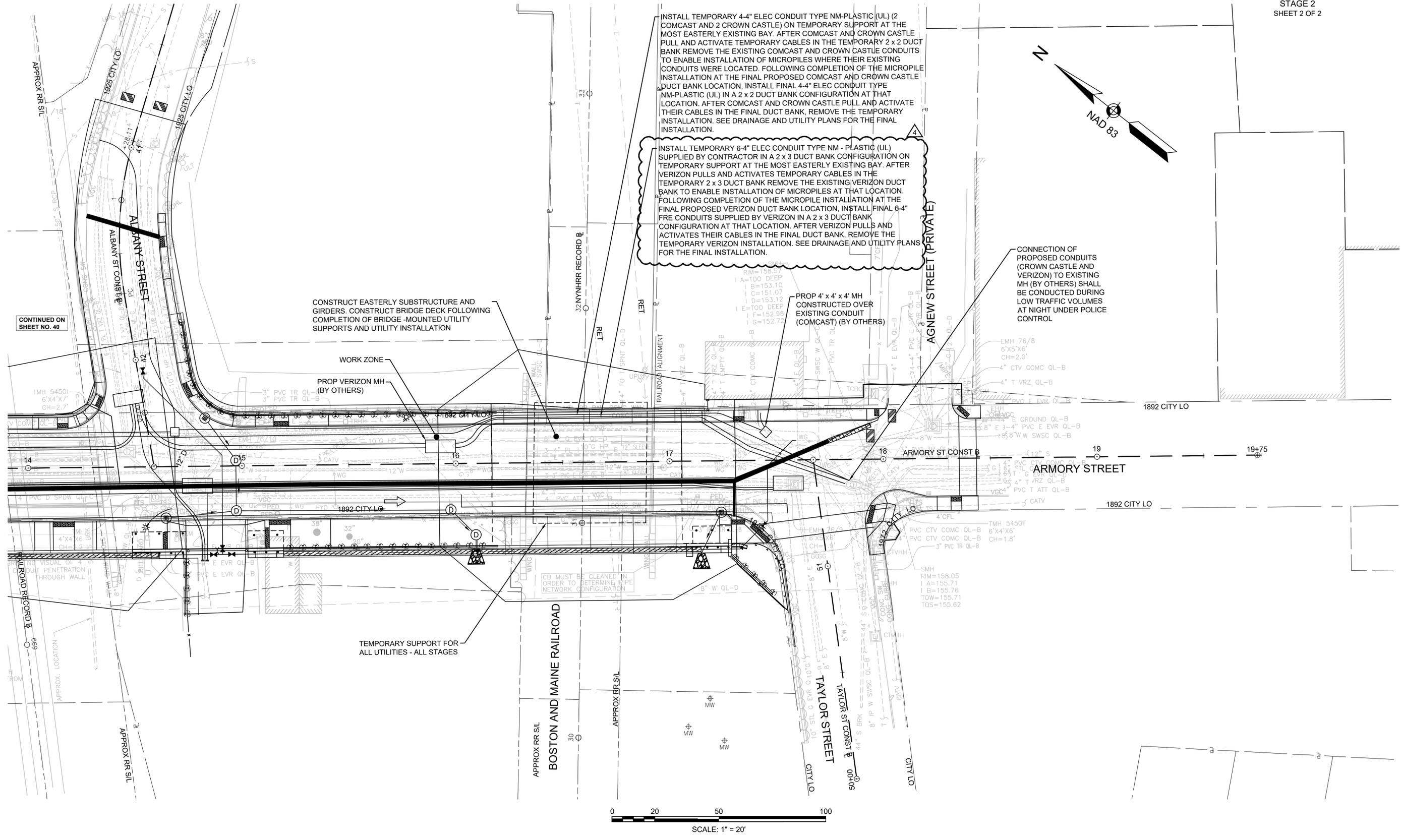


**SPRINGFIELD  
ARMORY STREET**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	HIP(NG)-003S(924)	41	204
PROJECT FILE NO.		609409	

**CONSTRUCTION STAGING AND  
UTILITY RELOCATION PLAN  
STAGE 2  
SHEET 2 OF 2**

- NOTES:
- TELECOMMUNICATION CONDUIT WORK, CABLE INSTALLATION AND SPLICING IN THE TAYLOR STREET INTERSECTION SHALL BE CONDUCTED UNDER POLICE CONTROL AT NIGHT DURING HOURS OF LOWEST TRAFFIC VOLUME.



INSTALL TEMPORARY 4.4" ELEC CONDUIT TYPE NM-PLASTIC (UL) (2 COMCAST AND 2 CROWN CASTLE) ON TEMPORARY SUPPORT AT THE MOST EASTERLY EXISTING BAY. AFTER COMCAST AND CROWN CASTLE PULL AND ACTIVATE TEMPORARY CABLES IN THE TEMPORARY 2 x 2 DUCT BANK REMOVE THE EXISTING COMCAST AND CROWN CASTLE CONDUITS TO ENABLE INSTALLATION OF MICROPILES WHERE THEIR EXISTING CONDUITS WERE LOCATED. FOLLOWING COMPLETION OF THE MICROPILE INSTALLATION AT THE FINAL PROPOSED COMCAST AND CROWN CASTLE DUCT BANK LOCATION, INSTALL FINAL 4.4" ELEC CONDUIT TYPE NM-PLASTIC (UL) IN A 2 x 2 DUCT BANK CONFIGURATION AT THAT LOCATION. AFTER COMCAST AND CROWN CASTLE PULL AND ACTIVATE THEIR CABLES IN THE FINAL DUCT BANK, REMOVE THE TEMPORARY INSTALLATION. SEE DRAINAGE AND UTILITY PLANS FOR THE FINAL INSTALLATION.

INSTALL TEMPORARY 6.4" ELEC CONDUIT TYPE NM-PLASTIC (UL) SUPPLIED BY CONTRACTOR IN A 2 x 3 DUCT BANK CONFIGURATION ON TEMPORARY SUPPORT AT THE MOST EASTERLY EXISTING BAY. AFTER VERIZON PULLS AND ACTIVATES TEMPORARY CABLES IN THE TEMPORARY 2 x 3 DUCT BANK REMOVE THE EXISTING VERIZON DUCT BANK TO ENABLE INSTALLATION OF MICROPILES AT THAT LOCATION. FOLLOWING COMPLETION OF THE MICROPILE INSTALLATION AT THE FINAL PROPOSED VERIZON DUCT BANK LOCATION, INSTALL FINAL 6.4" FRE CONDUITS SUPPLIED BY VERIZON IN A 2 x 3 DUCT BANK CONFIGURATION AT THAT LOCATION. AFTER VERIZON PULLS AND ACTIVATES THEIR CABLES IN THE FINAL DUCT BANK, REMOVE THE TEMPORARY VERIZON INSTALLATION. SEE DRAINAGE AND UTILITY PLANS FOR THE FINAL INSTALLATION.

CONSTRUCT EASTERLY SUBSTRUCTURE AND GIRDERS. CONSTRUCT BRIDGE DECK FOLLOWING COMPLETION OF BRIDGE-MOUNTED UTILITY SUPPORTS AND UTILITY INSTALLATION

PROP 4' x 4' x 4' MH CONSTRUCTED OVER EXISTING CONDUIT (COMCAST) (BY OTHERS)

CONNECTION OF PROPOSED CONDUITS (CROWN CASTLE AND VERIZON) TO EXISTING MH (BY OTHERS) SHALL BE CONDUCTED DURING LOW TRAFFIC VOLUMES AT NIGHT UNDER POLICE CONTROL

CONTINUED ON SHEET NO. 40

