TOWN OF SOUTHAMPTON, MASSACHUSETTS

WATER MAIN RELOCATION
ROUTE 10
MANHAN RIVER BRIDGE

JULY 2019

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PROJECT LOCATION

SCALE (IN FEET) 1" = 200'

LENGTH OF PROJECT = 4,410 FEET = 0.83 MILES

COMPREHENSIVE ENVIRONMENTAL INCORPORATED • Bolton, Massachusetts
GENERAL NOTES

1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT FOR REVIEW A SCHEDULE OF OPERATIONS IN ADDITION TO OTHER CONTRACT REQUIREMENTS TO MASSDOT.

2. THE CONTRACTOR SHALL NOTIFY DIG-SAFE (1-888-344-7233) AND THE APPROPRIATE LOCAL WATER AND SEWER DEPARTMENTS SEVENTY-TWO HOURS PRIOR TO THE START OF ANY WORK ON THE PROJECT. IN ADDITION, THE CONTRACTOR SHALL SAFELY AND ACCURATELY DETERMINE THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES ON THE SITE PRIOR TO THE START OF WORK.

3. RIGHT OF WAY AND CENTERLINE STATIONING FOR ROUTE 10 FROM MASSDOT PLAN SET FILE #1353, DATED 1924.

4. EXISTING CONDITIONS OF ROUTE 10 MASSDOT BRIDGE NO. S.19-009 (AXA) ARE BASED ON DESIGN DRAWINGS FROM MASSDOT PROJECT #602855, DATED SEPTEMBER, 2002.

5. THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF OPERATIONS IN ADDITION TO OTHER CONTRACT REQUIREMENTS TO MASSDOT.

6. ELEVATIONS, IN FEET, ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1983 (NAD 83).

7. THE CONTRACTOR SHALL PROVIDE METHODS DURING DEWATERING OPERATIONS AND FOR STORM WATER RUNOFF NOT TO ALLOW SILT OR DEBRIS TO ENTER EXISTING DRAINAGE FACILITIES OR CREATE NUISANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING EXISTING OR NEW FACILITIES IF SILTATION OCCURS DUE TO THE CONTRACTOR'S OPERATIONS.

8. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESEEDED PRIOR TO THE END OF THE PROJECT.

9. LIFT AND REPLACE REMOVABLE APPROACH SLAB OVER WATER MAIN ALIGNMENT PER MASSDOT REQUIREMENTS.

10. NO EXISTING PUBLIC UTILITY STRUCTURES SHALL BE ABANDONED AND/OR DISMANTLED WITHOUT AUTHORIZATION FROM THE ENGINEER.

11. EXISTING WATER UTILITIES SHALL REMAIN IN SERVICE UNTIL NEW WATER MAIN IS TESTED AND DISINFECTED AS APPROVED BY THE ENGINEER AND CONNECTION TO THE EXISTING WATER MAINS COORDINATED WITH THE TOWN.

12. ALL EXISTING GATE VALVE BOXES AND COVERS SHALL BE REMOVED ONCE THE NEW WATER MAIN IS IN SERVICE.

13. THE CONTRACTOR SHALL PROVIDE METHODS DURING DEWATERING OPERATIONS AND FOR STORM WATER RUNOFF NOT TO ALLOW SILT OR DEBRIS TO ENTER EXISTING DRAINAGE FACILITIES OR CREATE NUISANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING EXISTING OR NEW FACILITIES IF SILTATION OCCURS DUE TO THE CONTRACTOR'S OPERATIONS.

14. DAMAGE OF PROPERTY BEYOND THE WORK LIMITS CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE, SUBJECT TO THE APPROVAL OF THE ENGINEER AND ACCEPTANCE OF THE PROPERTY OWNER.

15. THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS AT HIS OWN EXPENSE IF NOT OTHERWISE SPECIFIED OUTSIDE OF THE PROJECT LIMITS.

16. THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS AT HIS OWN EXPENSE.

17. SAFETY CONTROLS FOR CONSTRUCTION OPERATIONS SHALL BE IN ACCORDANCE WITH MASSDOT REQUIREMENTS. THE 2009 MUTCD AS AMENDED AND THE SPECIAL PROVISIONS.

18. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESEEDED PRIOR TO THE END OF THE PROJECT.

19. ALL TRENCH BACKFILL SHALL BE MECHANICALLY TAMPEd NO JETTING SHALL BE ALLOWED.

20. ALL TRENCH BACKFILL SHALL BE MECHANICALLY TAMPEd NO JETTING SHALL BE ALLOWED.

21. THE CONTRACTOR SHALL SUBMIT FOR REVIEW A SCHEDULE OF OPERATIONS IN ADDITION TO OTHER CONTRACT REQUIREMENTS TO MASSDOT.

22. TEMPORARY STAGING AREAS SHALL NOT BE LOCATED BEYOND STATE HIGHWAY ROW.
1) Values were calculated assuming a minimum of 5 feet of cover over the pipe, Type 5 laying condition and a total pressure of 250 PSI (150 PSI test pressure with a 100 PSI surge allowance.)

2) The values listed for bends is the length of restrained joint piping required for each side of the fitting.

3) The values listed for tees is the length of restrained joint piping required for the tee branch. Values were calculated based on a minimum length of 10 feet between the nearest joints on both sides of the tee.

4) The values listed for reducers is the length of restrained joint piping required for the larger pipe.

5) The values listed for vertical offsets are the lengths of the restrained joint piping required for the higher and lower pipe, assuming a vertical offset of 3 feet.

6) Where the restrained length two or more fittings overlap, the larger restrained length shall govern.

7) Backfill should be compacted to at least 90 percent of maximum dry unit weight determined by ASTM test designation D-1557.

8) Values listed are for the specific laying conditions listed above. For the length of restrained joint piping for other conditions, see engineer.
**NOTES**

**PLAN OF REMOVABLE PANEL**

- Scale 1" = 500mm
- Plan of removable panel at curvilinear shown. Removable panels at center bay to have "tabs" both sides.

**SECTION 1**

- Scale 1" = 500mm
- Section 1
- 12 mm joint sealant 50 mm deep
- 2 lift hooks required. Use #16 coated rebar at quarter points.
- 200 mm joint sealant 50 mm deep

**SECTION 2**

- Scale 1" = 500mm
- Section 2
- Joint sealant 50 mm deep
- 12 mm preformed filler

**APPROACH SLAB DETAIL**

- Scale 1" = 500mm
- Approach slab details
- Joint sealant 50 mm deep
- 12 mm preformed filler

**APPROACH SLAB NOTES:**

1. Approach slab to be 30MPa-40mm-335kg cement concrete mixture.
2. Place longitudinal reinforcement parallel to centerline of construction.
3. Place transverse reinforcement parallel to abutment.
4. Transverse reinforcement shall be continuous at stage construction joints. Use dowel bar spacers of same size as reinforcing with lap length listed in the general notes.
5. Reinforcement in approach slab shall be uncoated with the exception of the removable slab lifting hooks.
NOTES