

SECTION 01010

SUMMARY OF WORK

PART 1 - GENERAL

1.01 PURPOSE

This project includes the installation of a three bay gravel wetland with pre-treatment forebay and associated drainage improvements to the west of Nutt Pond in Manchester, NH (West Inlet). The stabilization of a boat ramp, installation of two tree box filters, and construction of a rain garden will also be made along the north shore of Nutt Pond (Precourt Park). All work locations are in the City of Manchester, NH as shown in Drawings C-1 through C-14.

PART 2 - PRODUCTS

Not Used

PART 3 – EXECUTION

- A. The Scope of work under this contract shall include the excavation, filling, and disposal of excess soil for the construction of pre-cast concrete drainage structures and installation of drainage piping; construction of a gravel wetland treatment train; construction of a maintenance road; concrete retaining wall; relocation of an existing utility pole; reconstruction of the Nutt Pond boat ramp; implementation of two tree box filter BMPs and a rain garden; stabilization and vegetation of exposed surfaces as described herein and as outlined in this Scope of Work and as shown on the attached drawings (C-1 through C-14). Construction can occur in conjunction with, or separately at the West Inlet and Precourt Park project sites.
- B. The Scope of work includes the following for the West Inlet site:
 - 1. Coordinate the utility pole relocation with the utility company.
 - 2. Provide and maintain erosion control measures as shown on the Drawings and as specified herein at all locations prior to and during all construction activities. Contractor shall remove said erosion controls at end of construction.
 - 3. Provide work associated with clearing and grubbing the site in preparation for construction.
 - 4. Install permanent and temporary construction access and staging areas.
 - 5. Remove existing stone headwalls and culverts and replace with pre-cast concrete headwalls and reinforced concrete pipe culverts, as shown on the Drawings.
 - 6. Remove and replace existing drop inlet with 8' inner diameter drainage manhole and plug existing pipe. Connect reinforced concrete pipe culvert to 8' inner diameter drainage manhole.
 - 7. Install infiltration trench as shown on the Drawings.
 - 8. De-water the project area during construction activities and furnish all necessary equipment including temporary coffer dams, pumps, piping, and sedimentation controls to conduct de-watering activities.
 - 9. Remove existing chain link fence as shown on the Drawings.

10. Complete earthwork to construct maintenance access road, foot path, and gravel wetland forebay and treatment cells with side slopes and spillways.
11. Stockpile excess excavated material and loam for re-use or storage. Store excess material on-site at staging areas. (Excess material not re-used at the project sites shall be transported off-site by the Contractor).
12. Complete any rock removal by machine or blasting to complete excavation to rough grades as shown on plans.
13. Install interlocking concrete block retaining wall system.
14. Remove existing pre-cast concrete headwall.
15. Install drainage items associated with gravel wetland, including subsurface soils and stone, underdrain system, wetland soils, outlet control structures, drainage manholes, and connect reinforced concrete pipes and flared end sections.
16. Install stone for pipe ends at discharge locations, stone for maintenance access road, stone dust for foot path, stone for spillways, and articulated pre-cast concrete protective mat and riprap stone for forebay, complete with erosion control fabrics as shown on the Drawings.
17. Remove and reset granite curb along the edge of pavement as shown on the Drawings. Cut, remove, and replace pavement as necessary.
18. Install informational kiosk.
19. Install security gate and fencing.
20. Loam and seed all areas disturbed during construction and as shown on the Drawings.
21. Restore sidewalk, pavement, and all other excavated or exposed surfaces.
22. Miscellaneous associated work as indicated on the Drawings and these specifications.

C. The Scope of work includes the following for the Precourt Park site:

1. Provide and maintain erosion control measures as shown on the Drawings and as specified herein at all locations prior to and during all construction activities. Contractor shall remove said erosion controls at the end of construction.
2. Provide work associated with clearing and grubbing the site in preparation for construction.
3. Install permanent and temporary construction access and staging areas.
4. De-water the project area during construction activities and furnish all necessary equipment including temporary coffer dams, pumps, piping, and sedimentation controls to conduct de-watering activities.
5. Complete earthwork and rough grading to install two tree box filters, three curb inlets, boat ramp, and rain garden with side slopes and spillways.
6. Stockpile excess excavated material and loam for re-use or storage. Store excess material on-site at staging areas. (Excess material not re-used at the project sites shall be transported off-site by the Contractor).
7. Install and grade around tree box filters, complete with stone, filtering soil mix, and PVC underdrain system, as shown on the Drawings and as specified herein.
8. Install three curb inlets to transport runoff to the proposed rain garden.
9. Install stone, bioretention soil mix, mulch layer, and PVC underdrain system for rain garden, as shown on the Drawings.
10. Install stone for forebay and rain garden spillway, as shown on the Plans.

11. Plant trees in tree box filters and plant shrubs and container plants on rain garden bottom and side slopes as shown on the Plans.
 12. Install pre-cast boat ramp and riprap at toe of boat ramp, as shown on the Plans.
 13. Install granite curb, complete with curb breaks, along the edge of existing pavement and, as shown on the Drawings.
 14. Pave transition ramp from back of curb to top of pre-cast boat ramp section, as shown on the Drawings.
 15. Loam and seed all areas disturbed during construction and as shown on the Drawings.
 16. Restore pavement and all other excavated or exposed surfaces.
 17. Remove erosion controls at end of construction.
 18. Miscellaneous associated work as indicated on the Drawings and these specifications.
- D. The Contractor is responsible for identifying and locating all underground and aboveground utilities and service lines prior to any below or above ground site alterations. The Contractor is responsible for notifying concerned utilities, at least 72 hours prior to excavation in the proximity of telephone, gas, and electric utilities, by calling DigSafe at 1-888-344-7233 and all other utilities by calling the appropriate agency.
- E. The Contractor is responsible for all earthwork including clearing and grubbing, excavation, grading, and backfilling, as shown on the Drawings and as specified herein.
- F. The Contractor is responsible for the off-site disposal of all material generated during clearing and grubbing activities, excavations and other construction activities. All materials shall be disposed of at an approved site.
- G. Any ledge encountered during excavation that will interfere with the placement of specified devices or obtaining finished grades as specified on the Drawings will be brought to the attention of the Engineer. Any rock excavation will be performed in accordance with Section 02200 EARTHWORK.
- H. The Contractor shall be responsible for furnishing and installing all erosion control fabrics and plantings; furnishing and installing loam/soils and seed for stormwater BMPs; furnishing and installing stone for the installation of stormwater BMPs and associated pipes and structures, furnishing and installing pre-cast structures; furnishing and installing drainage piping and fittings; and installing maintenance access ways. Connection of all structures shall be done in accordance with the manufacturer's specifications, and the specifications and Drawings contained herein.
- I. The Contractor shall maintain erosion control measures as shown on the Drawings and as specified herein at all locations prior to and during all construction activities.
- J. The Contractor is responsible for dewatering the project areas during construction activities and shall furnish all necessary equipment including pumps, piping, and sedimentation controls to conduct dewatering activities.

- K. The Contractor is responsible for returning the construction area and surrounding area to its pre-construction condition.
- L. The Contractor is to perform the work of this contract in accordance with applicable State and Federal laws and regulations. In the event the Owner is required to pay any fines, administrative penalties or damages to anyone, including governmental agencies, due to the Contractor's failure to perform in accordance with this contract and/or regulations, the Contractor will indemnify and hold harmless the Owner and reimburse Owner for all such payments plus reasonable legal fees and expenses incurred.
- M. The Contractor shall coordinate overhead utility pole relocation with Eversource. Contact for this coordination shall be through Russell Maille (603) 634-2477.
- N. Utility Contacts
1. Eversource – Survey Engineering
Russell Maille - (603) 634-2477
 2. City of Manchester – Department of Public Works
Frederick J. McNeill, P.E. - (603) 624-6341
 3. Manchester Water Works
Guy Chabot, P.E. - (603) 624-6494 x2801
 4. New Hampshire Department of Transportation
William O'Donnell - (603) 485-9526
 5. Siena Engineering Group, Inc. – AT&T Broadband Cable
Garth Tolman - (781) 221-8400 x7002
Dave Edgar - (781) 221-8400 x7005
 6. Comcast
Tom Reed - (603) 889-6718
 7. Sprint
Marc Hanifan - (413) 237-2598
Emergency Dispatch - (800) 323-1500
 8. Fairpoint
Roberto Diaz - (603) 645-2702
 9. National Grid
Lenny Leclair - (603) 235-6759

END OF SECTION