THIS IS A TWO-SIDED DOCUMENT

NEW YORK STATE OF OPPORTUNITY. Adirondack Park Agency

PO Box 99, 1133 NYS Route 86
Ray Brook, NY 12977
Tel: (518) 891-4050
www.apa.ny.gov

APA General Permit/Order 2002G-3AAR

Permit No. 2023-0034

Application and Certification for Certain Minor Regulated Activities in Freshwater Wetlands

Instructions: Please answer all of the questions in each section and complete the required attachments. Submit this form with the required attachments in person (please call first) via mail (address above) or via e-mail (apasubmissions@apa.ny.gov) to the Deputy Director, Regulatory Programs, Adirondack Park Agency. A site visit by Agency staff is required. You may not begin regulated activities at the project site until you have received this certification signed by Agency staff.

Section A:

Name of Project Sponsor: James E. Dougan, Essex County Superintendent Authorized Representative: Luke Short, Creighton Manning Eng.

Mailing Address: 2 Winners Circle, Albany, NY 1220

Daytime Telephone: (518) 689-1875 E-mail: lshort@cmellp.com

Prior Agency Contact

Have you had any previous discussions with Agency staff regarding the proposed activities involving wetlands or has any Agency staff visited the project site with you or your representative?

No ___
Yes X Staff Person's Name: Mary O'Dell
Date of contact: 06/08/2022

Has the project site been the subject of a past Agency action (i.e., project permit, order, variance, jurisdictional inquiry, enforcement case or wetland flagging)?

No x
Do not know ___
Yes ___ If known, provide the following number and date:

Past Project Permit, Order or Variance Number: _____
Jurisdictional Inquiry Number: _____
Enforcement Case Number: _____
Wetland Boundary Flagging: _____

Project Site Location:

Town(s): Moriah Village: _____ County(s): Essex

Nearby road(s): Tracy Road Nearby waterbody: Feeder Pond Outlet

Tax Map Number(s) – *please list all:*

Section: ____ *Block:* ____ *Parcel:* ____ *Section:* ____ *Block:* ____ *Parcel:* ____
Section: ____ *Block:* ____ *Parcel:* ____ *Section:* ____ *Block:* ____ *Parcel:* ____
Section: ____ *Block:* ____ *Parcel:* ____ *Section:* ____ *Block:* ____ *Parcel:* ____

Brief Project Description:

The purpose of this project is to replace the existing culvert which washed out during the Halloween Storm Event due to insufficient hydraulic capacity. This project proposes to replace the existing culverts with a new 9 ft x 54 ft long, precast concrete box culvert with concrete wingwalls, and cutoff walls. The replacement will increase the hydraulic capacity during major storm events. The existing streambed will be reconstructed at the structure to accommodate the increased hydraulic opening. Native streambed material will be placed within the structure to provide a natural stream bottom. Work will include clearing of vegetation around the culvert and placement of stone fill scour protection at each end of the proposed culvert.

The project is shown on a set of plans titled "Essex County Culvert Replacements, Vaious Locations, Town of Moriah, NY," prepared by Creighton Manning, dated March 2023.

By signing this permit application, the project sponsor(s) agree(s) to strictly comply with the terms and conditions of this application and certification.

X _____ Essex County Dept. Superintendent
Signature of Project Sponsor

X _____
Signature of Project Site Landowner(s)

X _____
Signature of Authorized Representative(s) (if applicable)

Section B:

Certain Regulated Activities in Wetlands

Applicability:

1. This general permit only applies where the sole basis of Agency permit jurisdiction over the project activity in question is due to involvement of wetlands pursuant to Section 810(1) of the APA Act or where the activity constitutes a "regulated activity" pursuant to 9 NYCRR 578.3 in or significantly impairing wetlands.

2. This general permit may not be used if the wetland activity in question also requires Agency approval due to involvement of a larger project, such as a subdivision or new land use or development under Sections 810 or 814 of the Adirondack Park Agency Act or for "rivers projects" under the New York State Wild, Scenic and Recreational Rivers System Act and 9 NYCRR Part 577 or requires a variance under Section 806 shoreline restrictions.

Field Visit Requirements (to be completed by the project sponsor prior to the field visit by Agency staff unless otherwise agreed to in advance by Agency staff):

1. Field-delineate (with stakes) the centerline of any driveways, roads, underground or overhead utilities, utility poles**,** culverts or other structures to be located within wetlands.

2. Field-delineate (with stakes or non-blue colored flagging) the approximate location of all property lines that are located within 100 feet of the edge of any proposed work area.

3. Identify (with stakes or non-blue colored flagging) the limits if the proposed temporary and/or permanent fill in wetlands.

4. Field-delineate (with stakes) any new power poles to be located in wetlands.

Required Attachments (your application will NOT be processed without ALL required attachments):

1. Attach a copy of current deed of record for the project site.

2. Attach a Property Boundary Map which may be either a labeled and scaled copy of a survey map, deed plot or current real property tax map clearly showing the property boundaries and labeled with the tax map number(s).

3. Attach a site plan map scaled at 1" = 40' (1 inch equals 40 feet) for each work site involving or affecting wetlands. Showing existing site conditions and the proposed development activities, including all existing and proposed roads, driveways, buildings, utility poles, lines and anchors, and drainage structures, temporary and permanent easements, areas of existing vegetation labeled as to covertype, limits of proposed vegetative clearing, existing wetland boundaries, limits of wetland disturbance or filling, and proposed mitigation, including wetland replacement areas, if any. The map should clearly show the date and name and title of the person who prepared the map.

4. Provide scaled sketches of the proposed work areas and activities, including plan view and cross-sections through the area of wetland fill, plans and details of any temporary or permanent structures to be placed in or affecting wetlands, and temporary and permanent erosion and sediment control practices to be employed.

5. Attach a written explanation describing all of the following:
    a) The purpose and need for the proposed activity involving or affecting existing wetlands;
    b) why there is no practicable alternative to avoid working in the wetlands;
    c) how impacts to the wetlands have been avoided and minimized to the greatest extent practicable;
    d) the quantity in square feet of temporary excavation or fill and permanent excavation or fill;
    e) all temporary and permanent erosion and sediment control practices to be used to protect the wetlands during and after construction;

f) final site stabilization and restoration methods (e.g., topsoiling and seeding, planting of trees and shrubs), including plant names and sizes; and
g) all other proposed compensatory mitigation measures, including constructing replacement wetlands, if any, and construction activities sequence of work and proposed start date and estimated completion date.

Section C:

Conditions

1. The activities in or affecting existing APA-jurisdictional wetlands described in this application and in the required attachments may not be undertaken unless or until this application and certification is signed by authorized Agency staff.

2. Failure to comply with this general permit and approved attached site plan is a violation and may subject the project sponsor, successors and assigns to civil penalties and other legal proceedings, including modification, suspension or revocation of the permit.

3. By signing the application and certification, the permittee(s) and their contractor(s), if any, accept full legal responsibility for all damages, direct or indirect, of whatever nature and by whomever suffered, arising out of the project.

4. The Agency may conduct on-site investigations, examinations and evaluations as it deems necessary to ensure compliance with the terms and conditions of this permit. Such activities shall take place at reasonable times and upon advance notice where possible.

5. At the written request of the Agency, the permittee shall report in writing the status of the project, including details of compliance with any terms and conditions of this permit.

6. The permittee shall notify the Agency in writing of the project completion within five working days after the work authorized by the approved permit has been successfully completed.

7. All mobilization of equipment and materials shall occur prior to undertaking the work involving or affecting wetlands and shall be completed in the shortest necessary time span.

8. This permit does not grant the permittee any right to trespass upon the lands of or interfere with the riparian rights of others in order to perform the permitted work, nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

9. The permittee shall require that any agent, contractor, project engineer, or other person responsible for the overall supervision of this project read and understand this permit and approved plans and all terms and conditions prior to undertaking the project. Copies of the signed permit and approved plans shall be kept at the project site during all construction activities.

10. Any deviation from the type of project authorized by this permit or failure to comply precisely with all the terms and conditions of this permit and approved plans must be expressly approved in writing and in advance by authorized staff of the Agency.

11. The work shall be scheduled and conducted during drier periods (not during major storm events, spring runoff, and thawing conditions) to avoid and minimize erosion of soils and to prevent silting and muddying of wetlands or surface waterbodies.

12. Prior to construction, including clearing and grubbing, silt fence, as shown on the approved plans, shall be properly installed with the bottom buried at least 4 inches. Silt fence and all other erosion control measures shall be installed and maintained as specified in and shown on the approved plans.

13. No mechanized equipment shall be driven in wetlands unless expressly authorized herein. Every effort shall be made to work from upland areas and to minimize disturbances to areas adjacent to wetlands. Only tracked equipment shall be used in wetlands.

14. Any cutting of vegetation along the shorelines of navigable waterbodies shall be in conformance with the Shoreline Restrictions of Section 806 of the Adirondack Park Agency Act. (A copy of the Shoreline Restrictions or the Citizen's Guide is available upon request).

15. No waste disposal, material or excavation stockpiling, or dewatering discharge shall occur in or within 50 feet of wetlands unless specifically authorized in the project plans.

16. All equipment, including but not limited to trucks, excavators, earth drills and tractors, shovels, picks and rakes, to be used on the site shall be washed with high pressure hoses and hot water prior to being brought on the site. The intent of this condition is to ensure invasive plant species are not spread to the construction site.

17. The regulated wetland activities authorized herein, including site restoration activities, shall be completed by: **March 30, 2027**.
(Date to be filled in by APA Representative)

Special Conditions:

Underground utility line installation, repair or replacement

18. The installation or repair of underground utility lines shall not result in significant change in the pre-construction contours, flow or watertable characteristics of the wetland.

19. The area of wetland disturbance shall be limited to the minimum necessary to construct the utility line. Clearing of existing vegetation shall be limited to that material which poses an immediate hazard or hindrance to construction activities. Grading and grubbing of the wetland shall be minimized to the greatest extent practicable.

20. Where trenching for the installation or repair of underground utilities in wetlands, the top 12 inches of wetland soil shall be first removed and temporarily placed onto a geo-textile blanket running parallel to the trench. Sub-grade soils dug from the trench shall be sidecast on the opposite side of the trench onto another geo-textile blanket running parallel to the trench. All sidecast material shall be placed and stabilized in such a manner so as to prevent its dispersion by normal or high water flows.

21. The length of trench to be opened should be only that which can be opened and completed in one day. After installation or repair of the underground utilities, including placement of bedding materials, the sub-grade soils shall be backfilled into the trench, followed by the surface wetland soils. The wetland soil should be left 3 to 6 inches above the surrounding undisturbed wetland surface to allow for settling. All excess material must be removed to upland areas and stabilized immediately upon completion of construction. The geo-textile blanket can be utilized for the next trench section or rolled up and taken off-site after the work is completed.

Culvert repairs, replacements, and extensions or new installations in wetlands

22. Existing pipe and box culverts shall be replaced at their existing location. Replacement culverts shall be installed so as to preserve the pre-construction water levels and flows and shall not inhibit the natural movement of fish. If the activity involves a DEC classified stream, also obtain and comply with an ECL Article 15 permit.

23. New culverts shall be installed so as to preserve the pre-construction water levels and flows and shall not inhibit the natural movement of fish.

Temporary access or detour drives, work pads or water control structures in wetlands

24. Any fills required for temporary construction access, detour and work pad facilities shall be of clean, heavy stone fill or other non-erodible material placed on geo-textile fabric up to the ordinary high water elevation.

25. Temporary construction access, detour and work pad facilities (including necessary fills) shall be located so as to avoid or minimize disturbance of the wetland, and appropriate temporary drainage measures must be taken to maintain pre-construction water flows and watertable characteristics.

26. Temporary water control structures (i.e. cofferdams) shall be of the type and size, and shall beplaced in such a manner, so as to not impair surface water flow into or out of the wetland.

27. Temporary water control structures (i.e. cofferdams) shall be constructed of non-erodible materials, and located in such a manner so as to prevent its dispersion or movement by normal or high water flows.

28. Temporary construction access, detour and work pad facilities (including necessary fills) shall be entirely removed following completion of construction activities, and the affected and adjacent area successfully restored to its pre-construction condition, including replacement planting of native trees and shrubs.

Widening or improvements to existing roads, driveways, or trails

29. Any permanent fill associated with widening or improvements to a pre-August 1, 1973 road, driveway or trail shall not exceed 300 square feet of permanent wetland excavation or fill per wetland complex. Compensatory mitigation shall be addressed as approved by Agency staff.

30. The placement of earthen fill for widening of pre-August 1, 1973 highways, bridges, driveways or trails shall be limited to the minimum necessary to bring the facility into compliance with current State design, safety and capacity standards and shall only be allowed as long as the proposed activity or improvement does not change the historic use of the facility and the property or the character of the setting.

31. Stabilize road fill with native seed and straw or wood fiber mulch or rip rap, as approved, within three days of completion of fill activities.

Temporary access in wetlands for survey and exploratory activities

32. Any fills required for temporary access facilities shall be of clean, heavy stone fill or other non-erodible material placed on geo-textile fabric up to the ordinary high water elevation.

33. All test wells, test pits and bore holes located in wetlands shall be backfilled to the fullest extent possible with soil excavated from the well, pit or hole, with the upper 12 inches of wetland soil returned to the top of the hole. All excess material shall be immediately removed from the wetland and adjacent area and stabilized immediately upon completion of the activity.

34. The area of wetland disturbance shall be limited to the minimum necessary to perform the survey and/or exploratory activity. Cutting of existing vegetation shall be limited to that material which poses an immediate hazard or hindrance to the necessary activity. All cut vegetation shall be immediately removed from the wetland and adjacent area upon completion of the activity. Grubbing of stumps and roots shall be avoided.

35. Temporary access facilities (including necessary fills) shall be located so as to avoid or minimize disturbance of the wetland, and appropriate measures shall be taken to maintain pre-construction water flows and watertable characteristics.

36. Temporary access facilities (including necessary fills) shall be entirely removed following completion of the necessary activity, and the affected wetland and adjacent area shall be graded, seeded and restored to replicate pre-construction conditions (except that the planting of replacement trees and shrubs is not required).

37. All slurries, dusts, and liquids and other materials brought to the surface during drilling activities will be carried or pumped into an upland location and treated in such manner so that they or any effluent derived from them are not deposited into the wetland.

Overhead Utility Pole and Line Repair or Replacement

38. The area of wetland disturbance shall be limited to the minimum necessary to repair, replace or construct the utility pole and line. Clearing of existing vegetation shall be limited to that material which poses an immediate hazard or hindrance to construction activities. Grading and grubbing of the wetland shall be minimized to the greatest extent practicable.

39. When pole replacements occur in wetlands, the existing poles to be replaced shall be removed completely from the wetland, including that portion of the pole that was buried.

40. Whenever practicable, access through wetlands shall be done on frozen ground or with the use of wide-tracked vehicles. If temporary access or work pads are required, they shall comply with the conditions required herein.

(Additional conditions, if any, as determined by Agency staff)

41.

X **/s/ Mary A. O'Dell** Date: **March 30, 2023**
Signature of Staff Wetlands Biologist
(Required before regulated activity can be started)

X **/s/ David J. Plante** Date: **March 30, 2023**
Signature of Deputy Director, Regulatory Programs
(Required before regulated activity can be started)

APA General Permit Supplemental Information
Tracy Road (CR 6) over Feeder Pond Outlet – Culvert Replacement
Town of Moriah, Essex County, New York

5(a) The purpose and need for the proposed activity involving or affecting existing wetlands:

This is a culvert replacement project initiated by the Essex County DPW due to a lack of hydraulic capacity of the existing culverts in previous storm events. The culverts had previously washed out, and temporarily repaired to make the road passable. The purpose of this project is to replace the existing culverts, increase the hydraulic capacity and provide stone armor to prevent erosion.

5(b) The why there is no practicable alternative to avoid working in the wetlands:

This project proposes to replace the existing culverts with a new 9 ft x 54 ft long, precast concrete box culvert with concrete wingwalls and cutoff walls. The existing streambed will be reconstructed at the structure to accommodate the increased hydraulic opening. This proposed structure requires wingwalls at each corner to retain the roadway above.

5(c) How impacts to the wetlands have been avoided and minimized to the greatest extent practicable:

This wetland is located on the northeast corner of the proposed culvert. The wingwall on that corner will be positioned at a 45 degree angle with the roadway to achieve the most retention efficiently by the shortest protrusion into the wetland. Other alternatives were deemed unpractical as all involve roadway reconstruction beyond the scope of this culvert replacement project. All impacts to the wetland will be permanent, and the contractor will take care to not impact other wetland areas. Additionally, to minimize impacts to wetlands stone keyways will be trenched in place, where practical, to avoid additional lay back slopes and impacts.

5(d) The quantity in square feet of temporary excavation or fill and permanent excavation or fill:

Approximately 30 SF (.0007) of permanent wetland excavation is proposed for this project.

5(e) All temporary and permanent erosion and sediment control practices to be used to protect the wetlands during and after construction:

The erosion prevention and sediment control practices to be implemented will firstly attempt to minimize the extent of disturbance by focusing on erosion control (minimizing disturbed areas, seeding, mulching, matting) by controlling the amount of soil that can run off and by stabilizing exposed soil. Sediment control measures (i.e. stabilized construction entrances) will then be taken on any sediment that has escaped the erosion control measures. Best Management Practices will be incorporated, and it is anticipated that silt fence will be used at all locations of disturbed ground. Additionally, cofferdams or a temporary waterway diversion will be used to isolate concrete pour areas from the stream as needed. As mentioned above, the

erosion prevention measures are far more effective than sediment control measures (such as silt fence) and will be the primary focus of the control measures. See attached plans for supplemental information.

5(f) Final site stabilization and restoration methods (e.g., topsoiling and seeding, planting of trees and shrubs), including plant names and sizes:

The disturbed areas on site will be restored to the original contours where the slope angle is not too steep for restoration, otherwise a 2H:1V slope will be established. Meeting such goal will include rearranging of existing site materials as well as introducing new establishing soil and turf material to the site.

5(g) All other proposed compensatory mitigation measures, including constructing replacement wetlands, if any, and construction activities sequence of work and proposed start date and estimated completion date:

The construction of this project is anticipated to start in 2023 and be completed by 2023. The sequence of activities is summarized below:

The existing culvert will be closed to traffic. Erosion and sediment controls will be installed on site prior to excavation including signage and delineation of wetland boundaries. The contractor will utilize a stream diversion to convey the flow. The contractor will mobilize equipment to the site and begin clearing and grubbing within the designated area. The contractor will begin the removal of the existing culvert by first excavating the asphalt and material on top and around the pipes. Crushed stone will be placed per plan and precast box culvert, wingwalls, and cutoff walls will be installed. Upon completion of the new culvert, the stream bed and banks will be regraded to the proposed contours. The contractor will then clean the entire project site and demobilize all equipment.

This project will utilize NYSDOT standard specifications, which dictate requirements the contractor must meet in terms of site maintenance and avoiding and dealing with potential spills. The applicable sections of the standard specifications include, but are not necessarily limited to: *104-07 Site Housekeeping, 105-03 Methods and Equipment, 107-08 Protection and Restoration of Property and Landscape, 107-10 Managing Surplus Material and Waste, 107-11 Air Quality Protection,* and *107-12 Water Quality Protection.*

NEW YORK STATE OF OPPORTUNITY. | Adirondack Park Agency

KATHY HOCHUL
Governor

BARBARA RICE
Executive Director

November 17, 2022

Todd Hodgson – Via Email to Todd.Hodgson@essexcountyny.gov

RE: R2022-0232
Tracy Rd. culvert on Feeder Pond Brook
Land Use Area: Resource Management
Town of Moriah, Essex County

Dear Todd Hodgson:

The Adirondack Park Agency recently received a referral from the NYS Department of Environmental Conservation Region 5 regarding your proposed culvert replacement.

It appears your proposal may involve wetlands. Pursuant to §809 of the Adirondack Park Agency Act and §578 of Agency regulations, a permit is required from the Adirondack Park Agency for activities involving wetlands. Accordingly, your proposal may require a permit from this Agency.

To obtain a formal determination as to whether a permit is necessary, please submit the attached Jurisdictional Inquiry Form to the Agency at apajif@apa.ny.gov. Note that all required approvals must be obtained prior to undertaking the project.

Please direct any questions to the Agency's Jurisdictional Inquiry Office at (518) 891-4050 or apajif@apa.ny.gov.

Sincerely,

/s/ Matthew Brown

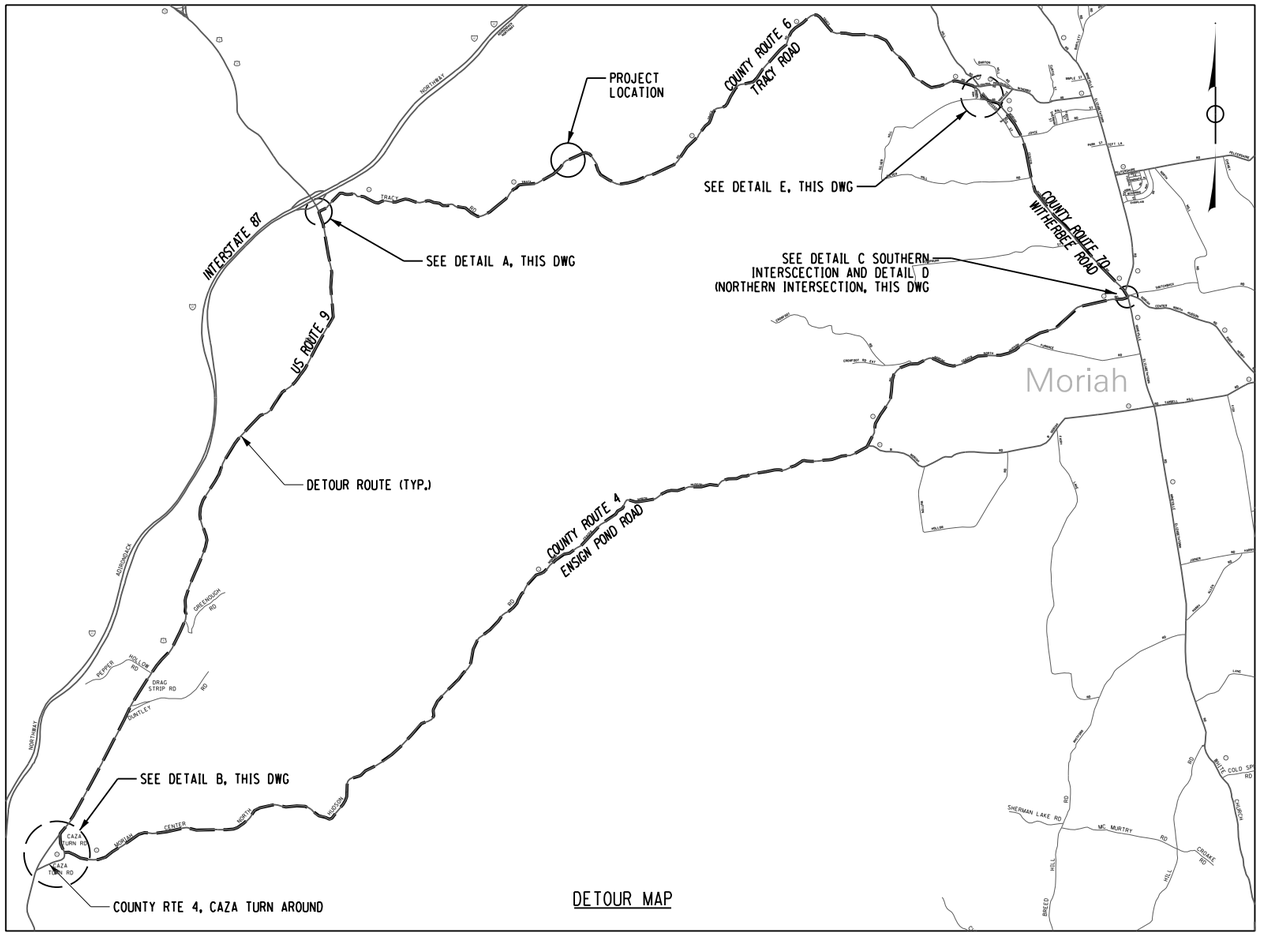
Matthew Brown
Environmental Program Specialist

Enclosure: Jurisdictional Inquiry Form

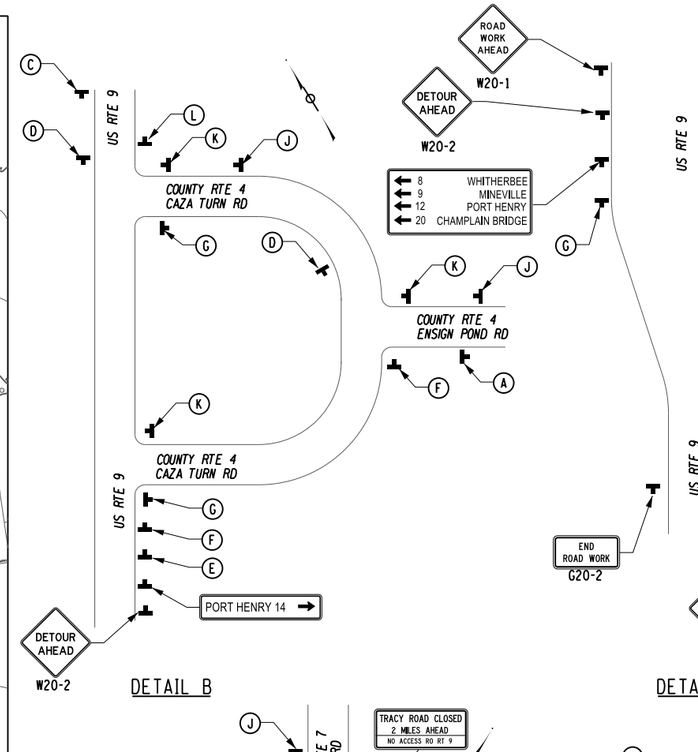
cc: Erin Donhauser, NYS DEC – Via Email

Google Maps LOA #2 Location Map

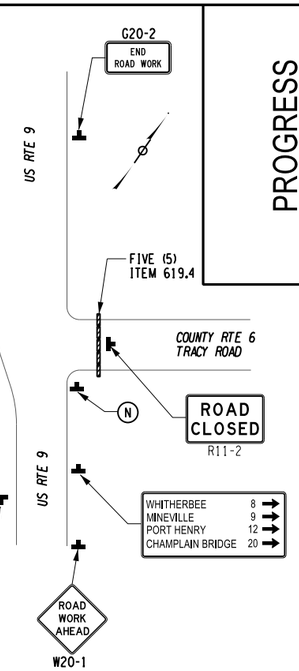
Map data ©2022 Google 2000 ft



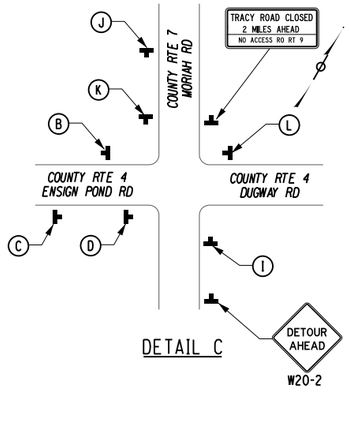
DETOUR MAP



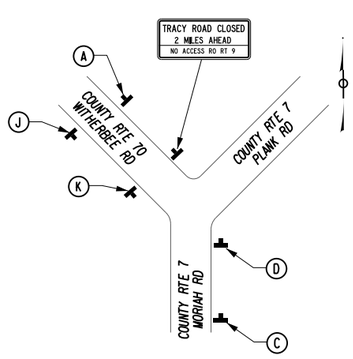
DETAIL B



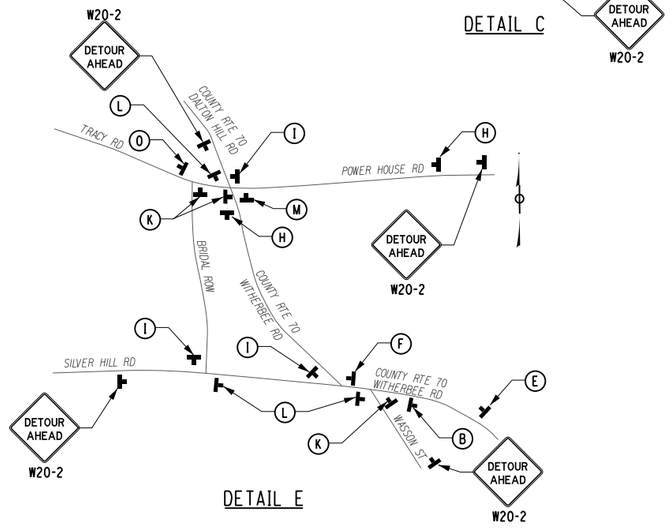
DETAIL A



DETAIL C



DETAIL D



DETAIL E

A	B	C	D	E	F	G	H	I
DETOUR EAST ESSEX 6 COUNTY	DETOUR WEST ESSEX 6 COUNTY	DETOUR EAST ESSEX 6 COUNTY	DETOUR EAST ESSEX 6 COUNTY	DETOUR EAST ESSEX 6 COUNTY	DETOUR EAST ESSEX 6 COUNTY	DETOUR EAST ESSEX 6 COUNTY	DETOUR WEST ESSEX 6 COUNTY	DETOUR WEST ESSEX 6 COUNTY
W4-8 (24"X12") M3-2 (24"X12") M1-6 (24"X24")	W4-8 (24"X12") M3-4 (24"X12") M1-6 (24"X24")	W4-8 (24"X12") M3-2 (24"X12") M1-6 (24"X24") M5-1L (21"X15")	W4-8 (24"X12") M3-2 (24"X12") M1-6 (24"X24") M6-1L (21"X15")	W4-8 (24"X12") M3-2 (24"X12") M1-6 (24"X24") M5-1R (21"X15")	W4-8 (24"X12") M3-2 (24"X12") M1-6 (24"X24") M6-1R (21"X15")	W4-8 (24"X12") M3-2 (24"X12") M1-6 (24"X24") M6-3 (21"X15")	W4-8 (24"X12") M3-4 (24"X12") M1-6 (24"X24") M5-1L (21"X15")	W4-8 (24"X12") M3-4 (24"X12") M1-6 (24"X24") M6-1L (21"X15")

J	K	L	M	N	O	P
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LEGEND

- DETOUR SIGN LOCATION
- DETOUR ROUTE
- (A) SIGN FACE NUMBER

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

PROGRESS PRINT NOT FOR CONSTRUCTION

DATE: 1/X/2022

NO.	REVISION	DATE	BY

Creighton Manning

PREPARED FOR:
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS
8053 US ROUTE 9
ELIZABETHTOWN, NY 12932

TRACY ROAD AT FEEDER POND
CULVERT REPLACEMENT
TOWN OF MORIAH
ESSEX COUNTY, NY

WORK ZONE TRAFFIC CONTROL
DETOUR PLAN - LOA 2

DESIGNED:	L.A.S.	DRAWN BY:	K.H.D.	CHECKED:	A.T.
DATE:	FEBRUARY 2023	CM No.:	120-098	SCALE:	AS NOTED

TCP2-1

SHEET NUMBER of ##

FILE NAME = N:\Projects\2020\120-098 Essex DPW - Halloween\Working\LOA - 2 - Feeder Pond\CADD\dgn\120-098_LOA2.cpb.mpp.01.dgn
DATE/TIME = 2/14/2023 1:09:01 PM
USER = jshort
PLOT = NYSDOT_CME_PDF.pltcfg

PROGRESS PRINT NOT FOR CONSTRUCTION

DATE: 1/X/2022

GRID NORTH

BENCHMARK ELEV.=1321.92
RAILROAD SPIKE SET IN 6" ASH.

FEEDER POND OUTLET

STONE WALL

BRUSH

R.O.W. BY USE

STA. TR 2+80.00
BEGIN FULL DEPTH RECONSTRUCTION

AZ. 216°35'41"

ROCK LINED DITCH

PL 2+80.00

2'-0" SHLDR.

10'-0" TRAVEL LANE

TO NYS 9

CURVE #1

PAVEMENT JOINT

PT TR 2+68.30

ROCK OUTCROP

DITCH

TOE OF SLOPE (TYP.)

BOX BEAM GUIDE RAIL END PIECE ITEM 606.120101 (TYP.)

WOODS

BENCHMARK ELEV.=1317.40
RAILROAD SPIKE SET IN 8" POPLAR.

LANDS N/F OF
LYME ADK TIMBERLANDS I LLC
TAX MAP ID: 95.-2-4.000

TRANSITION BRIDGE RAILING ITEM 568.70 (TYP.)

PRECAST HEADWALL (TYP.)
(INCLUDED IN ITEM 603.63090615)

40°00'00" SKEW

11'-9" SPAN

9'-0" CLEAR SPAN

BEGINING OPENING
STA. TR 3+33.85

END OPENING
STA. TR 3+45.58

AZ S13°24'06"E

PRECAST 4-SIDE CONCRETE BOX CULVERT (9'-0" SPAN x 6'-0" RISE)
ITEM 603.63090615

℄ STA.= S 0+13.86
INVERT= 1311.00

℄ STA. TR 3+39.71

REMOVE EXISTING 72" CULVERT, ITEM 202.19

℄ STA.= S 0+67.45
INVERT= 1309.00

STEEL BRIDGE RAILING (2-RAIL) (TYP.)
ITEM 568.50

PRECAST WINGWALLS AND APRON SLAB, ITEM 605.67000001

RIP RAP

10" ASH

LANDS N/F OF
LYME ADK TIMBERLANDS I LLC
TAX MAP ID: 95.-2-4.000

STA. TR 4+00.00
END FULL DEPTH RECONSTRUCTION

ROCK LINED DITCH

WHITE EPOXY STRIPE(S) (TYP.)
ITEM 685.11

DOUBLE YELLOW EPOXY STRIPE(S)
ITEM 685.12

TRACY ROAD

TO WITHERBEE

SAWCUT (TYP.)

TR 3+00

TR 4+00

TR 5+00

R.O.W.

PLAN

L = 50.00 FT.
G1 = -5.66%
G2 = -3.25%
K = 0.15 FT.
HSD = 394.70 FT.

PVI TR 2+69.99
ELEV 1321.36

PVC TR 2+75.68
ELEV 1321.03

PVI TR 3+00.68
ELEV 1319.62

PVT TR 3+25.68
ELEV 1318.81

PVI TR 4+00.00
ELEV 1316.40

-5.66%

-3.25%

PROPOSED GRADE

CAST-IN-PLACE CONCRETE HEADWALL

EXISTING 72" CMP TO BE REMOVED

INVERT EL. 1309.00 (OUTLET) / 1311.00 (INLET)

PRECAST 4-SIDED CONCRETE BOX CULVERT (9'-0" SPAN x 6'-0" RISE)

B/BOX CULVERT EL. VARIES

B/CUT OFF WALL EL. VARIES

1322.31
1322.31
1319.77
1319.68
1317.86
1317.88
1316.23
1316.23
1314.78
1314.61

PROPOSED PROFILE

PVI 0+00.00
ELEV 1311.57

PVI 0+13.87
ELEV 1311.00

PVI 0+67.44
ELEV 1309.00

PVI 0+79.99
ELEV 1308.49

-4.12%

-3.74%

-4.09%

PROPOSED GROUND

ORIGINAL GROUND

PROPOSED STREAM PROFILE

CURVE 1
PC = STA. TR 1+27.44
PT = STA. TR 2+68.30

Δ = 23°03'32.85"
R = 350.00
Dc = 16°22'12.80"
L = 140.86
T = 71.40

10 0 10 20 30 40'
1" = 20'

LEGEND:

STONE FILL (MEDIUM) ITEM 620.04

STONE FILL (LIGHT) ITEM 620.03

APPROXIMATE LIMITS OF CUT

APPROXIMATE LIMITS OF FILL

SW WETLAND

NO.	REVISION	DATE	BY

Creighton Manning

PREPARED FOR:
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS
8053 US ROUTE 9
ELIZABETHTOWN, NY 12932

TRACY ROAD AT FEEDER POND
CULVERT REPLACEMENT
TOWN OF MORIAH
ESSEX COUNTY, NY

GENERAL PLAN AND PROFILE

DESIGNED:	L.A.S.	DRAWN BY:	K.H.D.	CHECKED:	A.T.
DATE:	FEBRUARY 2023	CM No.:	120-098	SCALE:	AS NOTED

ST2-1

SHEET NUMBER of ##

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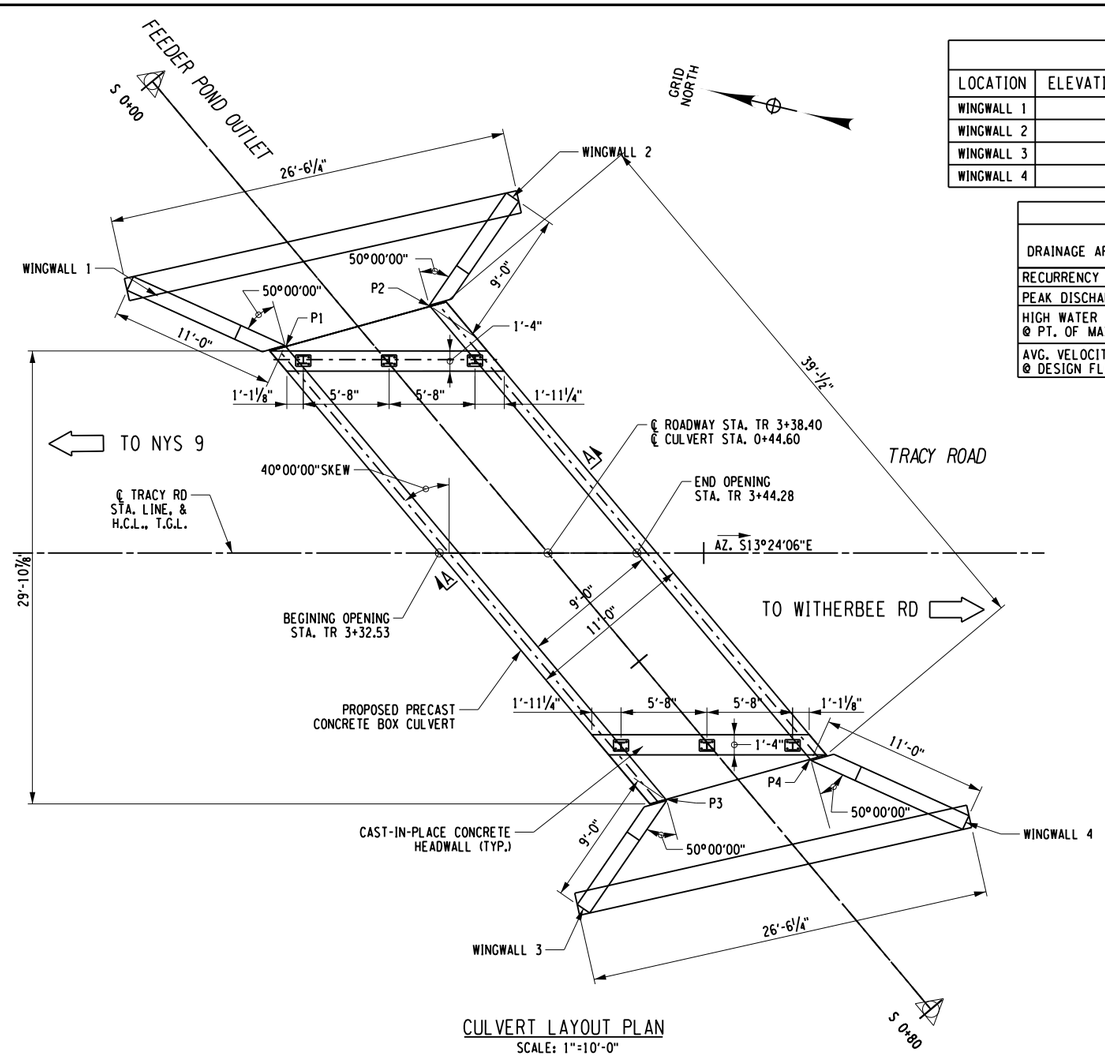


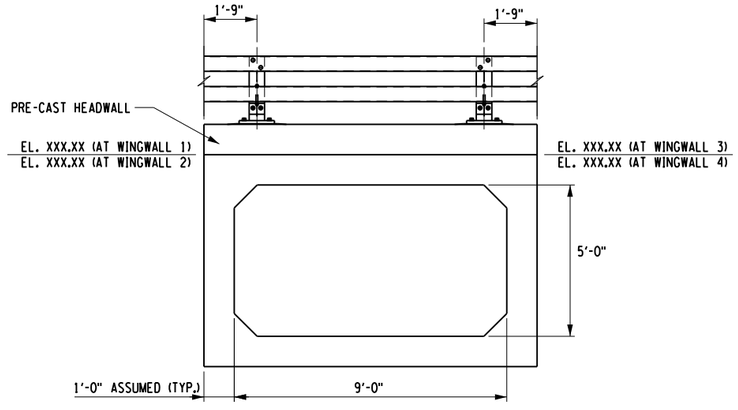
CULVERT LAYOUT PLAN
SCALE: 1"=10'-0"

WINGWALL DATA TABLE				
LOCATION	ELEVATION A	ELEVATION B	ELEVATION C	DIMENSION "L"
WINGWALL 1				
WINGWALL 2				
WINGWALL 3				
WINGWALL 4				

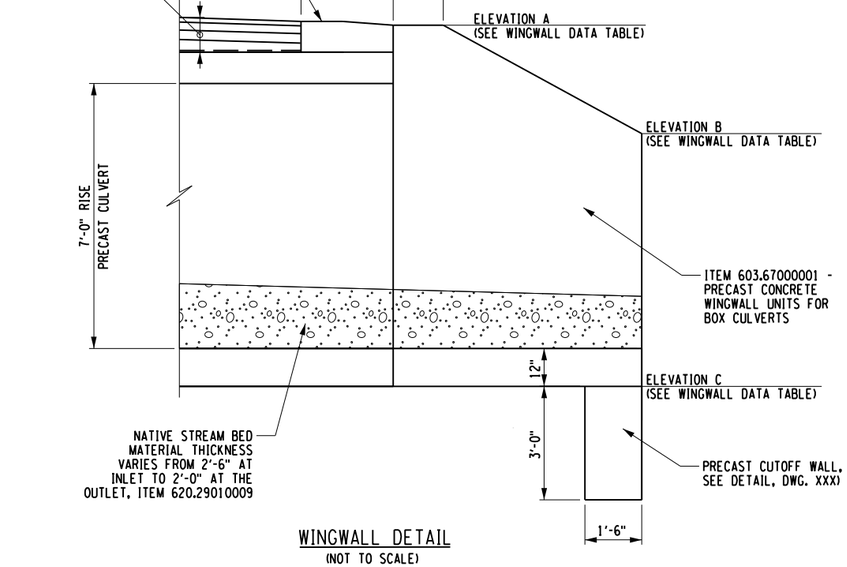
HYDRAULIC DATA			
DRAINAGE AREA = 1.96 mi²		DESIGN FLOOD	BASE FLOOD
RECURRENCY INTERVAL		XX	XX
PEAK DISCHARGE			
HIGH WATER ELEVATION @ PT. OF MAX BACKWATER	EXIST		
	PROP.		
AVG. VELOCITY THRU STRUCTURE @ DESIGN FLOOD =			

TABLE OF COORDINATES			
DESCRIPTION	NORTHING	EASTING	ELEVATION
P1: LT BEGIN	72605.4294	1913003.683	
P2: RT BEGIN	72059.2159	1912995.033	
P3: LT BEGIN	726031.1531	1912972.3401	
P4: RT BEGIN	726035.9396	1912963.6899	

CULVERT DESIGN DATA TABLE	
CLEAR SPAN, FT	9'-0"
CLEAR RISE, FT	6'-0"
• MIN. FILL HEIGHT, FT	XX
• MAX. FILL HEIGHT, FT	XX
(℄ SKEW) SKEW ANGLE TO ℄ OF ROADWAY, DEG.	40°
LIVE LOAD	HL-93
• BASED ON ASSUMED TOP SLAP THICKNESS OF 12". FABRICATOR SHALL ADJUST BASED ON ACTUAL TOP SLAB THICKNESS.	
• 1.2 MIN. LRFR RATING INVENTORY	



CULVERT SECTION A-A
SCALE: 1"=5'-0"
•• ELEVATIONS ARE AT OUTSIDE FACE OF HEADWALL, BOTH SIDES OF CULVERT (TYP.)



WINGWALL DETAIL
(NOT TO SCALE)

PROGRESS PRINT NOT FOR CONSTRUCTION

DATE: 1/X/2022

NO.	REVISION	DATE	BY

Creighton Manning

PREPARED FOR:
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS
8053 US ROUTE 9
ELIZABETHTOWN, NY 12932

DESIGNED: L.A.S. | DRAWN BY: K.H.D. | CHECKED: A.T.

TRACY ROAD AT FEEDER POND
CULVERT REPLACEMENT
TOWN OF MORIAH
ESSEX COUNTY, NY

LAYOUT PLAN - LAO 2

DATE: FEBRUARY 2023 | CM No.: 120-098 | SCALE: AS NOTED

ST2-2

SHEET NUMBER of ##

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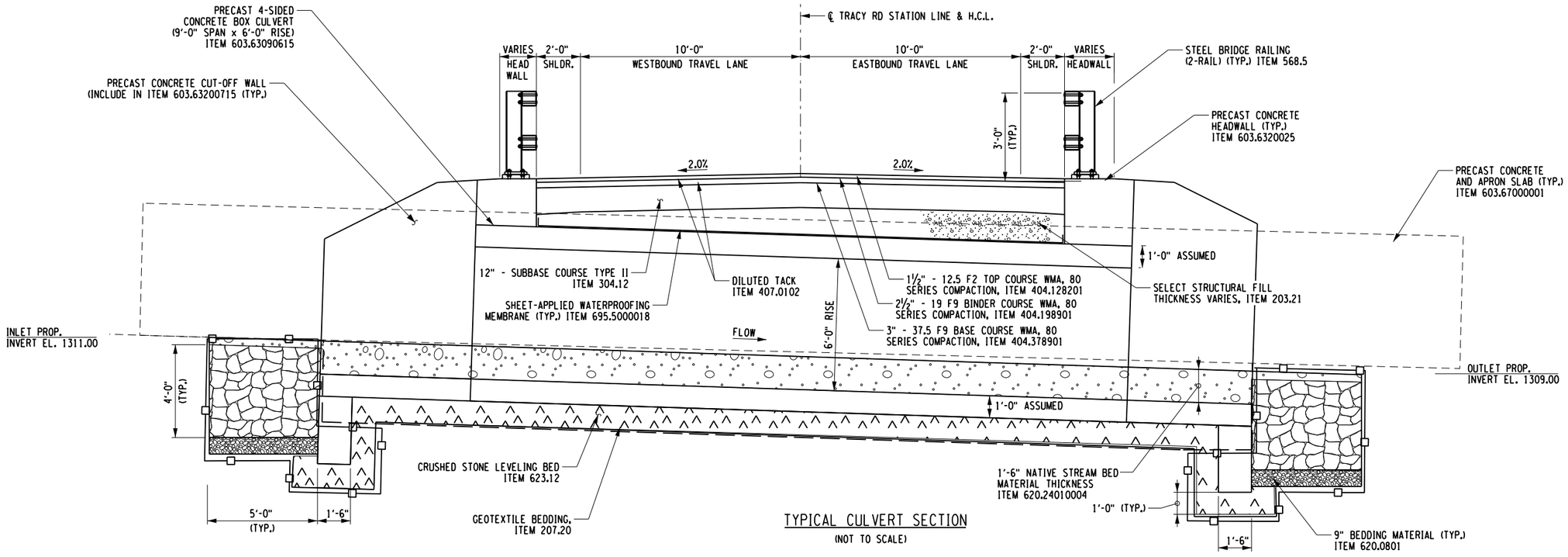
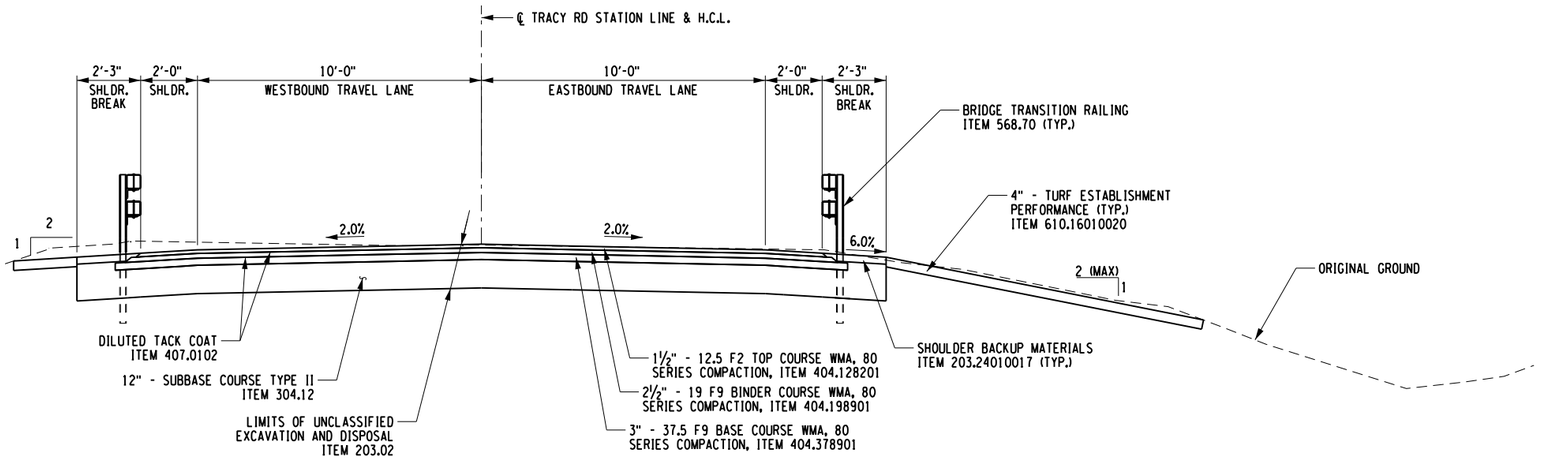


TYPICAL CULVERT SECTION

(NOT TO SCALE)

NOTES:

1. xxxx



TYPICAL SECTION

STA. TR 2+50.00 TO STA. TR 5+20.00

(NOT TO SCALE)

LEGEND:

- STRUCTURAL EXCAVATION
- LIMITS OF TRENCH OF CULVERT EXCAVATION ITEM 206.2021
- GEOTEXTILE BEDDING ITEM 207.20
- STONE FILLING (MEDIUM) ITEM 620.04
- BEDDING MATERIAL ITEM 620.0801
- CRUSHED STONE MEETING THE REQUIREMENTS OF MATERIAL DESIGNATION 703-0201, 703-0202 OR 703-0204 WITH A PRIMARY SIZE DESIGNATION OF 2. ITEM 623.12
- NATIVE STREAM MATERIAL ITEM 620.29010009

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DATE: 1/X/2022

NO.	REVISION	DATE	BY

Creighton Manning

PREPARED FOR: ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS 8053 US ROUTE 9 ELIZABETHTOWN, NY 12932

DESIGNED: L.A.S. | DRAWN BY: K.H.D. | CHECKED: A.T.

TRACY ROAD AT FEEDER POND
CULVERT REPLACEMENT
TOWN OF MORIAH
ESSEX COUNTY, NY

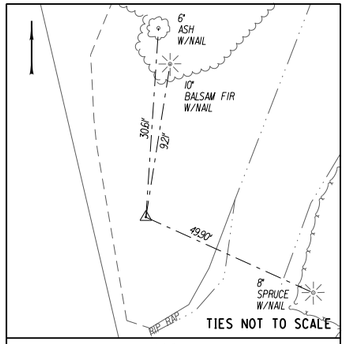
TYPICAL SECTION - LOA 2

DATE: FEBRUARY 2023 | CM No.: 120-098 | SCALE: AS NOTED

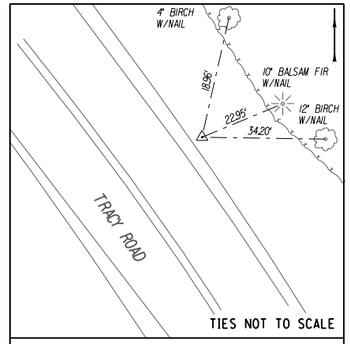
ST2-3

SHEET NUMBER of ##

TABLE OF HORIZONTAL ALIGNMENT				
POINT	STATION	CURVE DATA	COORDINATE	
			NORTH	EAST
TRACY ROAD				
POB	TR. 1+00.00	AZ S 36°27'38.7" E LENGTH =27.4447 FT	1913202.0937	725953.3483
PC	TR. 1+27.44		1913180.0210	725969.6578
PI	TR. 1+98.84	RADIUS = 350.0000 FT DELTA =23°03'32.8" RT LENGTH = 140.8602 FT TANGENT =71.3964 FT	1913122.5994	726012.0867
PT	TR. 2+68.30	AZ S 13°24'05.8" E LENGTH =272.0186 FT	1913053.1472	726028.6346
POE	TR. 5+40.32		1912788.5359	726091.6818
FEEDR POND OUTLET				
POB	-0+00.01	AZ S 36°35'54.2" W LENGTH =89.1949 FT	1913020.7609	726071.4710
POE	0+89.19		1912949.1522	726018.2928



℄1
SPIKE SET IN SHOULDER
NYSPCS EAST ZONE NAD83(2011)
N: 1913029.3496
E: 726055.0504
ELEV: 1319.154



℄2
SPIKE SET IN SHOULDER
NYSPCS EAST ZONE NAD83(2011)
N: 1913155.4386
E: 726004.1975
ELEV: 1327.65

ESTIMATE OF QUANTITIES				
ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
201.06	CLEARING AND GRUBBING	LS	1	
202.19	REMOVAL OF SUBSTRUCTURES	CY	71	
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	58	
203.03	EMBANKMENT IN PLACE	CY	0	
203.21	SELECT STRUCTURE FILL	CY	60	
203.24010017	SHOULDER BACKUP MATERIAL	TON	4	
206.01	STRUCTURE EXCAVATION	CY	966	
206.0201	TRENCH AND CULVERT EXCAVATION	CY	40	
207.20	GEOTEXTILE BEDDING	SY	71	
207.26	PREFABRICATED COMPOSITE STRUCTURAL DRAIN	SY	36	
209.13	SILT FENCE-TEMPORARY	LF	131	
304.12	SUBBASE COURSE, TYPE 2	CY	51	
404.018901	TRUING & LEVELING F9, WMA, 80 SERIES COMPACTION	TON	13	
404.098301	9.5 F3 TOP COURSE WMA, 80 SERIES COMPACTION	TON	15	
404.198901	19 F9 BINDER COURSE WMA, 80 SERIES COMPACTION	TON	26	
404.378901	37.5 F9 BASE COURSE WMA, 80 SERIES COMPACTION	TON	30	
407.0102	DILUTED TACK COAT	GAL	18	
553.030001	TEMPORARY WATERWAY DIVERSION STRUCTURE	EACH	2	
555.09	CONCRETE FOR STRUCTURES, CLASS HP	CY	18	
568.50	STEEL BRIDGE RAILING (TWO RAIL)	LF	44	
568.70	TRANSITION BRIDGE RAILING	LF	128	
595.50000018	SHEET-APPLIED WATERPROOFING MEMBRANE	SF	344	
603.64200715	PRECAST CONCRETE BOX CULVERT (FILL HEIGHT 24 IN. OR GREATER) 20 FOOT SPAN, 7 FOOT RISE	LF	17	
603.67000001	PRECAST CONCRETE WINGWALL UNITS FOR BOX CULVERTS	SY	31	
606.120101	BOX BEAM END PIECE	EACH	4	
610.16010020	TURF ESTABLISHMENT - PERFORMANCE	SY	5	
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1	
619.1711	TEMPORARY POSITIVE BARRIER - CATEGORY 1 (PINNING PROHIBITED)	LF	32	
620.03	STONE FILLING (LIGHT)	CY	5	
620.04	STONE FILLING (MEDIUM)	CY	83	
620.0801	BEDDING MATERIAL, TYPE 1	CY	10	
620.29010009	NATIVE STREAM BED MATERIAL (A)	CY	68	
623.12	CRUSHED STONE (IN-PLACE MEASURE)	CY	29	
625.01	SURVEY OPERATIONS	LS	1	
627.50140008	CUTTING PAVEMENT	LF	32	
646.22	DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARYSNOWPLOWING MARKER PANELS	EACH	4	
697.03	FIELD CHANGE PAYMENT	DC	0	
699.040001	MOBILIZATION	LS	0	

TABLE OF BENCHMARKS					
NO.	℄ STATION	OFFSET	SIDE	DESCRIPTION	ELEVATION
BM 1	XX	XX	LT	RAILROAD SPIKE SET IN 6" ASH	1321.92
BM 2	XX	XX	LT	RAILROAD SPIKE SET IN 8" POPLAR	1317.40

NOTES:

1. THE BASELINE INFORMATION TO BE PROVIDED IN DIGITAL FORMAT AS SUPPLEMENTAL INFORMATION TO THE CONTRACTOR.
2. VERTICAL DATUM BASED ON NAVD88 (CORS DERIVED).

PROGRESS PRINT NOT FOR CONSTRUCTION

DATE: 1/X/2022

NO.	REVISION	DATE	BY

Creighton Manning

PREPARED FOR:
ESSEX COUNTY
DEPARTMENT OF PUBLIC WORKS
8053 US ROUTE 9
ELIZABETHTOWN, NY 12932

TRACY ROAD AT FEEDER POND
CULVERT REPLACEMENT
TOWN OF MORIAH
ESSEX COUNTY, NY

MISCELLANEOUS TABLES - LOA 2

DESIGNED:	L.A.S.	DRAWN BY:	K.H.D.	CHECKED:	A.T.
DATE:	FEBRUARY 2023	CM No.:	120-098	SCALE:	AS NOTED

ST2-4

SHEET NUMBER of ##

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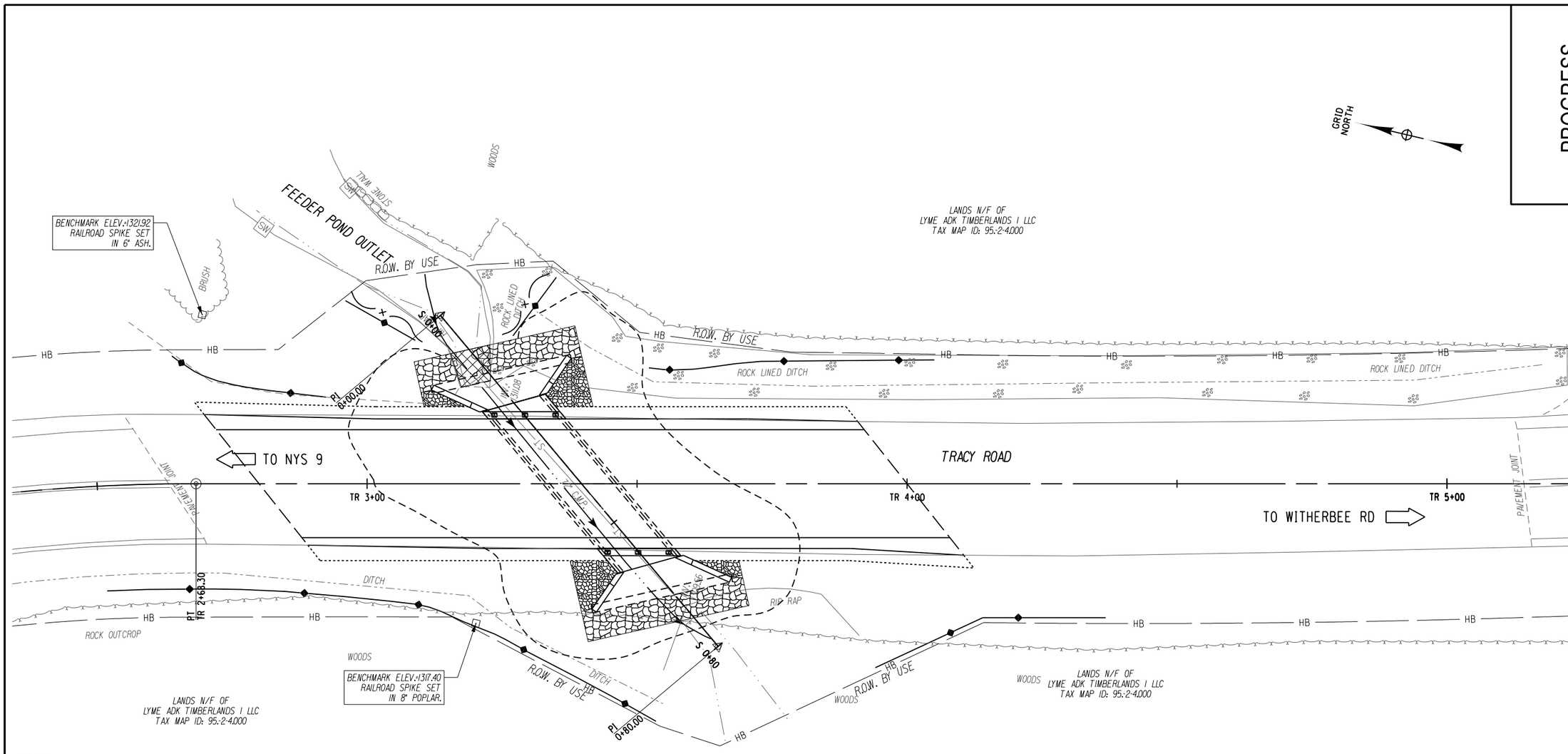
DATE: 1/X/2022



NOTES:

1. IN WETLAND LOCATIONS THAT REQUIRE EXCAVATION (SUCH AS EXCAVATION FOR THE PROPOSED CULVERT), CONTRACTOR SHALL REMOVE AND STOCKPILE TOP 12" OF EXISTING SOILS IN TEMPORARY WETLAND IMPACT AREA FOR LATER USE IN RESTORATION.
2. WETLAND RESTORATION AREA SHALL BE REESTABLISHED PER SPECIAL SPECIFICATION 203.01920007. ALL WETLAND AREAS TO BE RESTORED SHALL BE SEEDED WITH WETLAND SEED MIX B ONLY AS SPECIFIED IN SPECIAL SPECIFICATION. NO SOD MIX WILL BE ALLOWED IN WETLAND AREAS.
3. ALL STOCKPILED WETLAND SOILS SHALL BE PROTECTED BY PERIMETER EROSION CONTROL. COST FOR CONTAINING STOCKPILED SOILS SHALL BE INCLUDED IN ITEM 203.01920007.
4. SILT FENCE, ITEM 209.13, SHALL BE PLACED AROUND THE CONTRACTOR STAGING AREA.

WETLAND RESTORATION/PROTECTION NOTES:

1. EROSION CONTROL MEASURES AS INDICATED ON THE PLANS SHALL BE PLACED AS CLOSE AS POSSIBLE TO THE EDGE OF THE EXISTING WETLANDS TO BE PRESERVED WITHOUT INTERFERING WITH GRADING OPERATIONS.
2. IN ORDER TO PROMOTE THE EARLY DEVELOPMENT OF PLANT MATERIAL WITHIN THE WETLANDS TO BE RECONSTRUCTED, THE CONTRACTOR SHALL RECONSTRUCT THE WETLAND AS EARLY IN THE CONSTRUCTION SEQUENCE AS POSSIBLE. IF RECONSTRUCTION OF THE WETLANDS IS DELAYED AT ANY TIME, AN APPROVED TEMPORARY EROSION CONTROL MEASURE SHALL BE APPLIED UNTIL RECONSTRUCTION IS CONTINUED.
3. PRIOR TO FINISH GRADING OF THE WETLAND AREAS, THE ENGINEER-IN-CHARGE SHALL BE NOTIFIED TO VERIFY THE FINAL SHAPE OF THE WETLAND AREA. FURTHER EXCAVATION AND/OR FILLING MAY BE ORDERED TO RESTORE WETLANDS TO ORIGINAL CONDITIONS AT NO ADDITIONAL PAYMENT.
4. WETLAND AREAS TEMPORARILY DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO THE AREAS SHOWN ON THE PLANS. THESE AREAS SHOULD BE RE-GRADED TO THE PRE-CONSTRUCTION CONTOURS AND SEEDED WITH WETLAND SEED MIX AS SOON AS WORK IN THESE AREAS IS FINISHED.
5. TEMPORARY PLASTIC BARRIER FENCE SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLANS OR A.O.B.E. PRIOR TO BEGINNING ANY WORK IN THESE AREAS.
6. THE CONTRACTOR SHALL INSTALL AT THE BEGINNING OF THE CONTRACT, AND MAINTAIN THROUGHOUT ITS DURATION, THE WETLAND PROTECTION BARRIER AROUND THE EXISTING WETLAND AREAS/STREAM COURSE AREAS AS SHOWN. BARRIER SHALL BE PLACED ALONG THE OUTSIDE PERIMETER OF THE STAGING AREA. THE CONTRACTOR SHALL NOT DISTURB EXISTING WETLAND AREAS/STREAM COURSE AREAS WITHIN THE FENCED AREAS
7. THE WETLAND RESTORATION SHALL BE SUPERVISED BY QUALIFIED PERSONNEL PROVIDED BY ESSEX COUNTY OR THEIR DESIGNEE.

WETLAND IMPACTS

QUADRANT	PERMANENT IMPACT AREA
NORTH / UPSTREAM	40 SF .0009 ACRES

10 0 10 20 30 40'
1" = 20'

LEGEND:

- STONE FILLING (MEDIUM) ITEM 620.04
- STONE FILLING (LIGHT) ITEM 620.03
- PERMANENT WETLAND IMPACT
- TEMPORARY WATER DIVERSION STRUCTURE. ITEM 553.030001
- LIMITS OF STRUCTURE EXCAVATION, ITEM 206.01
- SILT FENCE ITEM 209.13
- TEMPORARY PLASTIC BARRIER FENCE ITEM 609.41010010

NO.	REVISION	DATE	BY

Creighton Manning

PREPARED FOR: ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS 8053 US ROUTE 9 ELIZABETHTOWN, NY 12932

DESIGNED: L.A.S. | DRAWN BY: K.H.D. | CHECKED: A.T.

TRACY ROAD AT FEEDER POND
CULVERT REPLACEMENT
TOWN OF MORIAH
ESSEX COUNTY, NY

EROSION AND SEDIMENT CONTROL PLAN - LOA 2

DATE: FEBRUARY 2023 | CM No.: 120-098 | SCALE: AS NOTED

ST2-5

SHEET NUMBER of ##

2 Winners Circle
Albany, New York 12205
Phone: (518) 446-0396
www.cmellp.com

SITE PHOTOGRAPHS

CLIENT NAME:	SITE LOCATION:	PROJECT NAME:	CM PROJECT NO.:
Essex DPW	Witherbee, NY	Essex County Halloween Storm LOA2	120-098

Photo Date: June 4, 2020
Photographer: CME
Direction Facing: south
Description: Upstream fascia

Photo No.: 2
Photo Date: July 9, 2020
Photographer: CME
Direction Facing: North
Description: Upstream elevation

2 Winners Circle
Albany, New York 12205
Phone: (518) 446-0396
www.cmellp.com

SITE PHOTOGRAPHS

CLIENT NAME:	SITE LOCATION:	PROJECT NAME:	CM PROJECT NO.:
Essex DPW	Witherbee, NY	Essex County Halloween Storm LOA2	120-098

Photo No.: 3
Photo Date: August 4, 2020
Photographer: CME
Direction Facing: North
Description: Downstream fascia

Photo No.: 4
Photo Date: June 4, 2020
Photographer: CME
Direction Facing: south