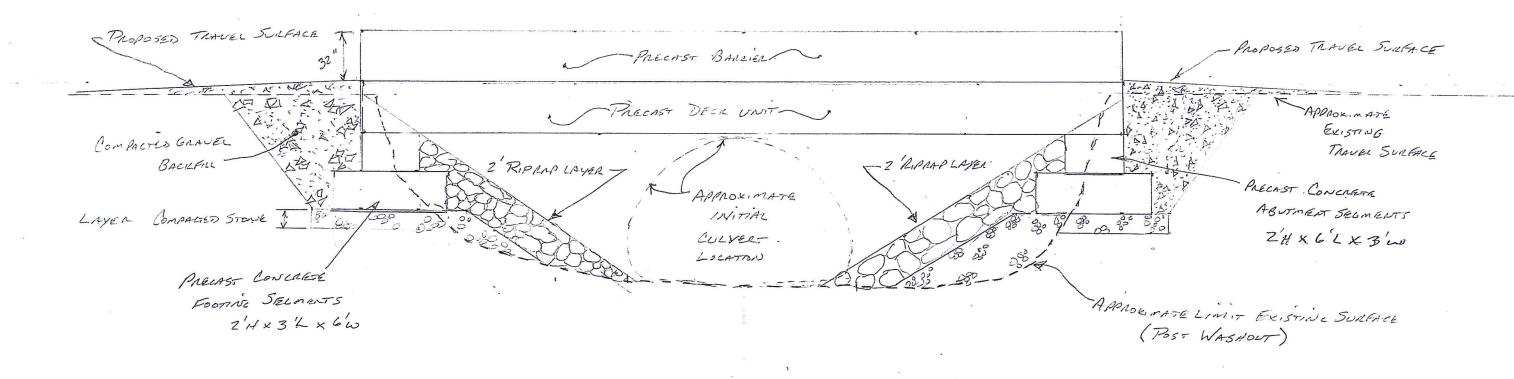
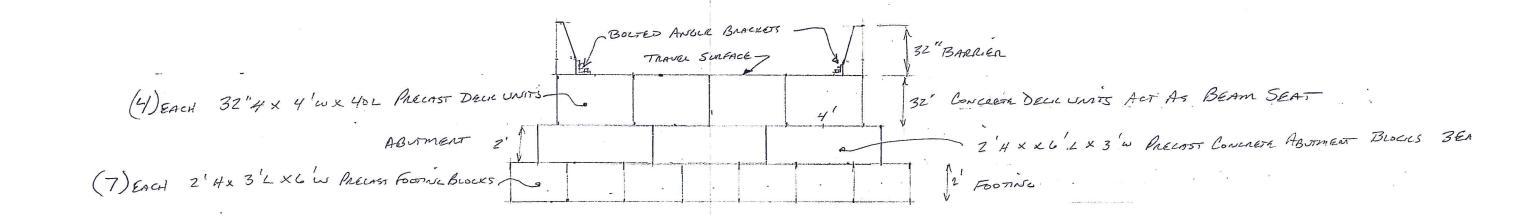
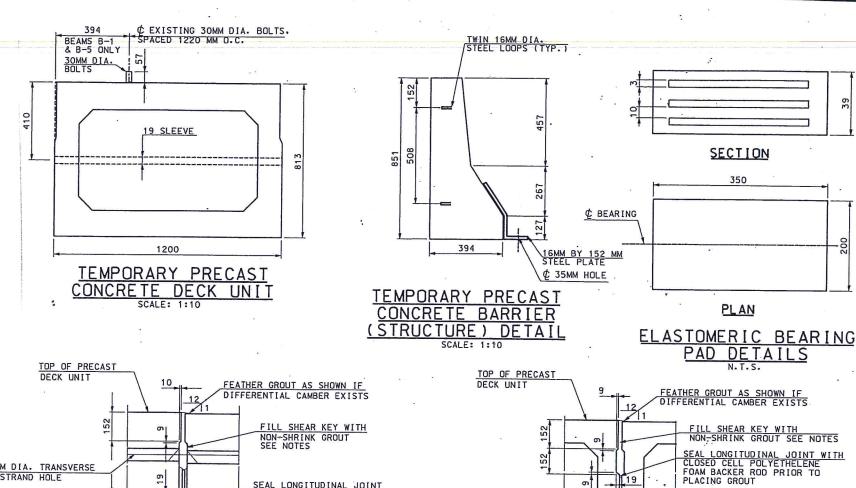
TOR OF SLOPE PLAN VIEW TOE OF SLOPE TOP OF SLOPE Z TOP OF SLOPE I Sep. 080 PARAPET/BARRIER. 4 SHOULDER To EDUE OF TRAVELLAY I EDGE OF TRAVEL WAY (ohi) H 40 DECR UNTS (TYP) EDUE OF TRAVELLIAY F EDGE OF TRAVELWAY 7 (SHOURDER -S 8091 80 - PARADET/BARRIER 8 TOP OF SLOPE T TOP OF SLOPE CO L RIPRAP STORE TOR OF SLOPE THE OF SLOPE



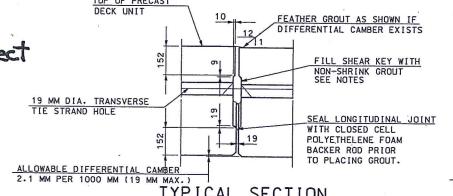
PROFILE VIEW



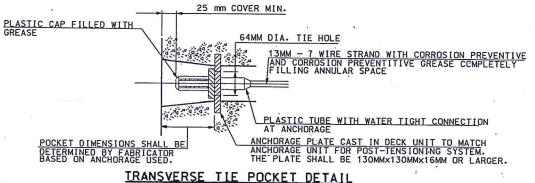
CROSS SECTION NEW



* Beam Details from Past CTDOT Project



TYPICAL SECTION INTERNAL DIAPHRAGM AT TRANSVERSE TIE BLOCK N.T.S.



TRANSVERSE TIE POCKET DETAIL

NOTE: OTHER ANCHORAGE SYSTEMS MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER PROVIDED THAT THE ENTIRE ANCHORAGE SYSTEM IS WATERTIGHT OR

TYPICAL SECTION PARTIAL DEPTH SHEAR KEY

± 13 MM

2

PRESTRESSED BEAM NOTES

THE PRESTRESSED BEAMS AND TEMPORARY PRECAST CONCRETE BARRIER CURB (STRUCTURE) WILL BE PROVIDED BY CONNECTICUT DEPARTMENT OF TRANSPORTATION. THE MATERIALS ARE STORED AT BRADLEY AIRPORT. ALL LOADING AND TRANSPORTATION TO THE PROJECT SITE AND BACK TO THE STORAGE SITE AFTER THE PROJECT IS COMPLETE SHALL BE INCLUDED IN THE ITEM "TEMPORARY BRIDGE AND APPROACHES". SEE SPECIAL PROVISIONS.

THE DRILLING OF HOLES IN PRESTRESSED BEAMS, OR THE USE OF POWER ACTUATED TOOLS ON PRESTRESSED BEAMS WILL NOT BE PERMITTED.

NO SUPERIMPOSED DEAD OR LIVE LOADS SHALL BE APPLIED TO THE ADJACENT BEAMS UNTIL THE MORTAR IN THE LONGITUDINAL SHEAR KEYS HAVE FULLY CURED.

EACH TRANSVERSE TIE STRAND SHALL BE TENSIONED AS FOLLOWS:

- 1) AFTER PLACEMENT OF PRECAST DECK UNITS. PLACE TRANSVERSE TIE STRANDS.
- 2) TENSION TRANSVERSE TIE STRANDS TO 5.000+ POUNDS EACH.
- PLACE NON-SHRINK GROUT IN THE LONGITUDINAL SHEAR KEYS AND INTERNAL DIAPHRAGMS.
- 4) WHEN GROUT HAS ATTAINED A COMPRESSIVE STRENGTH OF 1.500 psi (BASED ON THE GROUT MANUFACTURERS RECOMMENDATIONS). TENSION TRANSVERSE TIE STRANDS TO 30.000 POUNDS EACH.

GROUT FOR SHEAR KEYS SHALL BE RODDED OR VIBRATED TO ENSURE THAT ALL VOIDS IN THE SHEAR KEYS ARE FILLED. TEMPORARY PRECAST BARRIER ON STRUCTURE SHALL NOT BE INSTALLED UNTILL AFTER TRANSVERSE TIES ARE TENSIONED TO THEIR MAXIMUM AMOUNT



STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION



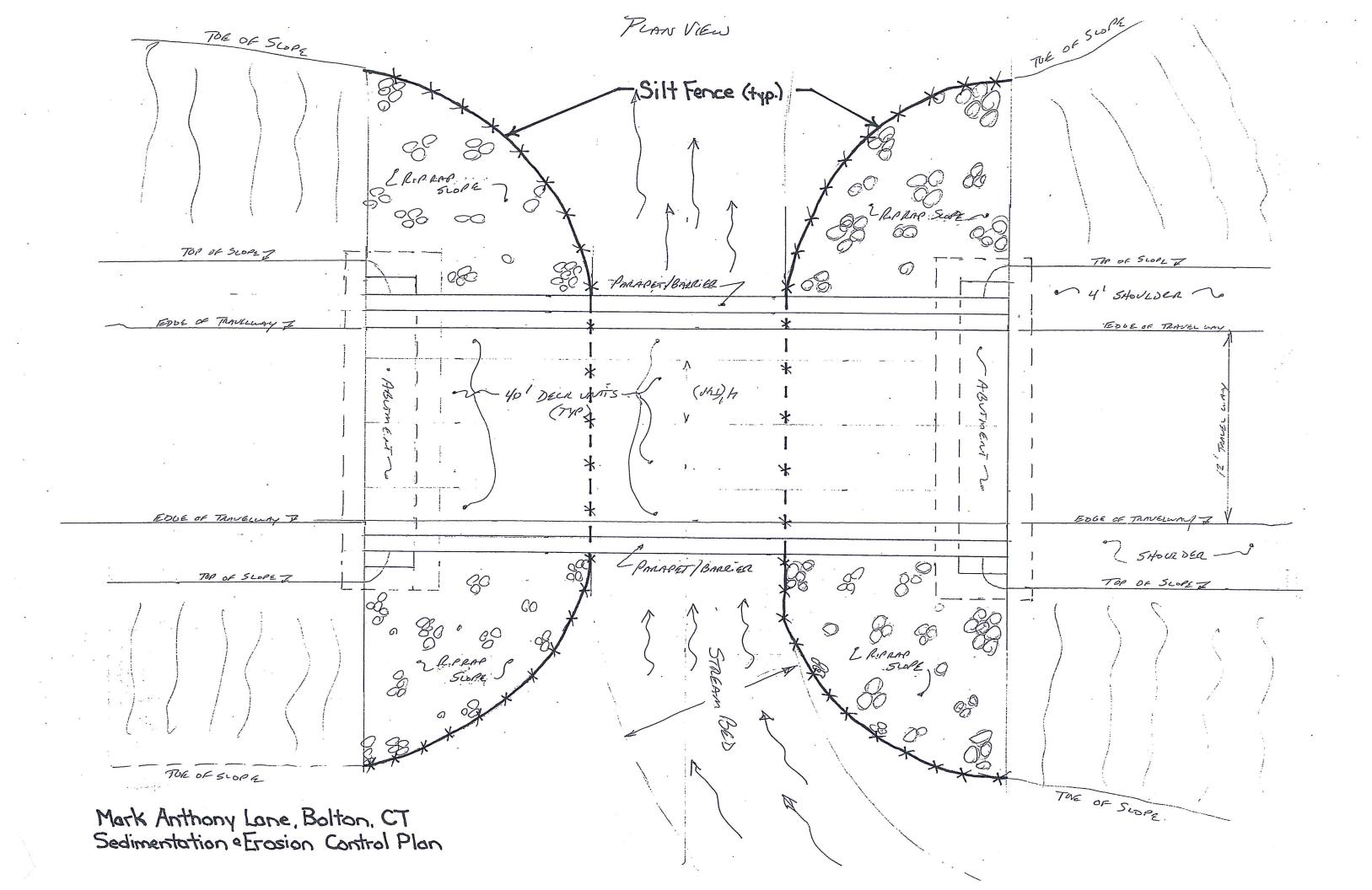
TECTONIC

PROJECT TITLE

ROUTE 432 OVER

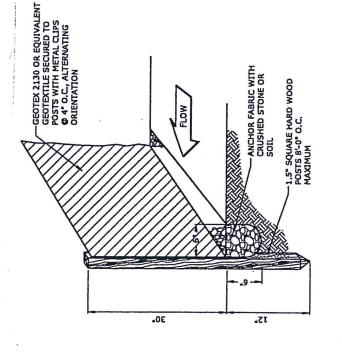
EAST LYME

44-145



SOIL EROSION AND SEDIMENT CONTROL NARRATIVE:

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL CONFORM TO THE STANDARDS OUTLINED IN THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP), "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", LATEST REVISION,



SILT FENCE NO SCALE

From: J. Howard Pfrommer, P.E. [mailto:hpfrommer@nlja.com]

Sent: Friday, August 27, 2021 8:28 AM **To:** Rupert, Jim < <u>irupert@boltonct.org</u>>

Cc: Sandra Pierog <<u>pierog.sandra@gmail.com</u>>; Kelly, Barbara <<u>bkelly@boltonct.org</u>>; McCavanagh, Kathleen <<u>kmccavanagh@boltonct.org</u>>; Dimock, Lance <<u>ldimock@boltonct.org</u>>; Joseph M. Dillon, P.E.

<jdillon@nlja.com>

Subject: RE: Mark Anthony - Bolton Wetlands

Jim – we reviewed the Hemlock bridge drawings received in the e-mail immediately below. We assume that the proposed structure depicted on the drawings is intended to be temporary. If so, it would likely become permanent. Or, it may be intended to be permanent. Comments below assume the proposed structure to be permanent (note that I have not visited to the site):

- 1. Based on the contributing 5 square mile watershed, a 100-year design discharge with 1' of underclearance and 1' maximum backwater over natural would be required by the CTDOT Drainage Manual. Although the proposed waterway opening is larger than the previously existing culvert barrel and proposed low chord appears to be no lower than the top of the previously existing culvert barrel, without performing detailed hydraulic modeling including any backwater affect from the Hop River and knowing the existing embankment "overtopping" elevation, whether or not the proposed waterway area or the superstructure low chord elevation complies with the CTDOT Drainage Manual cannot be determined.
- 2. Besides a local wetland permit, a U.S. Army Corps of Engineers/CTDEEP permit is needed for the work (permanent or temporary). The simplest Corps permit application to prepare would be Self-Verification (SV) under Corps CT General Permit (GP) #19. In order to qualify for this permit, among other things, the project must: 1) be designed for a 100-year discharge with 1' freeboard; 2) The use of solid parapets in a roadway low point are discouraged (I do not know if this crossing location is in a roadway low point); 3) unconfined in-stream work is only allowed between July 1 and Sept 30. Cofferdams can be installed and removed anytime except in April, May and June, and work behind cofferdams can occur any time of year. A CTDEEP 401 Water Quality Certification is automatically granted for Corps SV submissions by simply copying the CTDEEP with the Corps submission. The SV still requires notification/review prior to submission to the Corps, of CTDEEP Fisheries, the CT State Historic Preservation Office, the CT Tribal Historic Preservation Office, CTDEEP Natural Diversity Database, and the U.S. Fish & Wildlife Service.
- 3. If the project does not qualify for SV under the Corps GP #19 because the hydraulics cannot be confirmed, or work is proposed outside the in-stream window period, or for any other reason, it would then appear to be eligible for a Pre-Construction Notification (PCN). The PCN application is *rigorous* AND the CTDEEP has their own *rigorous* PCN application. We have projects with PCN submissions that are still waiting for their permit from the Corps after 15 months with no end in site. Under this scenario, it appears the project would be considered an "Emergency" by the Corps because replacement of the crossing cannot wait that long for a PCN permit to be processed. Qualification as an emergency is required to be confirmed with the Corps before construction start, then the applicant can perform the work, and then file for the permits after work completion.
- 4. Typical Corps/CTDEEP time of year restrictions for unconfined in-stream construction is July 1 to Sept 30. It is not clear if a cofferdam is anticipated for installation of the riprap in-the-dry, or whether it is intended to be placed in the stream unconfined.

- 5. Due to the poor approach hydraulic alignment to the crossing inlet, there is a high likelihood for scour along the upstream embankment as well as the embankment through the waterway. Riprap is proposed to protect the slope through the waterway and may need to be extended along the approach roadway embankment. The drawings do not indicate the size of riprap or whether it is to be set on bedding material or geotextile, or grouted or not. No embedded toe is shown for the riprap. The riprap should be carefully designed and constructed to protect the bottom of the bridge footings which are proposed above the stream bottom and could be susceptible to scour particularly given the poor approach hydraulic alignment and potentially inadequate proposed waterway opening.
- 6. Footings for transportation structures are required to be set 4' below grade for frost protection. The proposed footing burial depth appears less than that.
- 7. The drawings include a detail of reinforced elastomeric bearing pads for the beams to be set on. However, other drawings do not show these bearings. It should be confirmed that the beams will indeed be set on these bearings.
- 8. The drawings include details for post tensioning of the beams. It should be confirmed that the beams will indeed be post tensioned.
- 9. I do not know how wide the existing road is but the proposed bridge will provide a 12' +/- curb-to-curb width which is a single lane.
- 10. Geotextile should be placed behind the block abutments to prevent backfill material from washing between block joints and creating potholes or sinkholes in the approach roadway.

Please contact me if there are any questions.



222 Bolton Center Road • Bolton, CT 06043

Inland Wetlands Commission (860) 649-8066

INLAND WETLANDS COMMISSION OF THE TOWN OF BOLTON CEASE AND RESTORE ORDER

August 28, 2021

Howard and Anita Alford 628 Hop River Road Bolton, CT 06043

Re: Unstable Conditions on Mark Anthony Lane in Bolton Pond Brook Watercourse & Associated Wetlands – Emergency Establishment of Temporary Access

Dear Howard and Anita Alford:

As owner of one of the lots comprising membership in the Mark Anthony Estates Common Driveway Association, Inc., by this letter you are hereby ordered to stabilize the streambanks to prevent further erosion or embankment failure around the existing road culvert and install erosion controls. You are so ordered based on the following facts:

- The Inland Wetlands Commission of the Town of Bolton has the authority and the responsibility to regulate inland wetlands and watercourses in the Town of Bolton under sections 22a-36 through 22a-45 of the Connecticut General Statutes (CGS) and the Inland Wetlands and Watercourses Regulations of the Town of Bolton (Regulations).
- During the August 21, 2021 storm the private road crossing Bolton Pond Brook was overwhelmed.
 The culvert failed. A section of the road and soil from the abutments and streambanks washed
 away. The current condition allows erosion of exposed soil into the watercourse to continue,
 depositing sediment in the downstream channel. This situation is reasonably likely to cause a
 degradation in the function of the watercourse and impact wetland dependent plant and animal
 species.

- Details and/or specifications of the temporary repair should be approved by Town staff prior to implementation.
- The streambanks should be stabilized and protected from further erosion. Work may include removal of trees or debris and installation of erosion control measures.
- An Inland Wetlands Permit Application should be submitted for permanent repair of the road and crossing.
- Obtain any other applicable federal, state, and local permits, including CT DEEP and Army Corps, for both temporary and permanent repairs.

August 28, 2021 Howard and Anita Alford Page Two

This notice of violation is issued in accordance with Section 22a-44, CGS, and Section 14.4.a of Bolton's Regulations. Accordingly, the Inland Wetlands Commission will hold a hearing at 7:00 PM on Tuesday September 7, 2021 to provide you with an opportunity to be heard and speak about the continuation, revision, or withdrawal of this order.

Feel free to call 860.649.8066, extension 6113, if you have any questions.

Sincerely,

Barbara Kelly, Agent

Inland Wetlands Commission

Town of Bolton

bkelly@boltonct.org

cc:

Inland Wetlands Commission files

Interim Town Administrator



222 Bolton Center Road • Bolton, CT 06043

Inland Wetlands Commission (860) 649-8066

INLAND WETLANDS COMMISSION OF THE TOWN OF BOLTON CEASE AND RESTORE ORDER

August 28, 2021

Gary and Patricia Cinea 630 Hop River Road Bolton, CT 06043

Re: Unstable Conditions on Mark Anthony Lane in Bolton Pond Brook Watercourse & Associated Wetlands – Emergency Establishment of Temporary Access

Dear Gary and Patricia Cinea:

As owner of one of the lots comprising membership in the Mark Anthony Estates Common Driveway Association, Inc., by this letter you are hereby ordered to stabilize the streambanks to prevent further erosion or embankment failure around the existing road culvert and install erosion controls. You are so ordered based on the following facts:

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- The streambanks should be stabilized and protected from further erosion. Work may include removal of trees or debris and installation of erosion control measures.
- An Inland Wetlands Permit Application should be submitted for permanent repair of the road and crossing.
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August 28, 2021 Gary and Patricia Cinea Page Two

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Sincerely,

Barbara Kelly, Agent

Inland Wetlands Commission

Town of Bolton

bkelly@boltonct.org

cc:

Inland Wetlands Commission files

Interim Town Administrator



222 BOLTON CENTER ROAD • BOLTON, CT 06043

INLAND WETLANDS COMMISSION (860) 649-8066

INLAND WETLANDS COMMISSION OF THE TOWN OF BOLTON CEASE AND RESTORE ORDER

August 28, 2021

David and Joanne Cook 636 Hop River Road Bolton, CT 06043

Re: Unstable Conditions on Mark Anthony Lane in Bolton Pond Brook Watercourse & Associated Wetlands – Emergency Establishment of Temporary Access

Dear David and Joanne Cook:

As owner of one of the lots comprising membership in the Mark Anthony Estates Common Driveway Association, Inc., by this letter you are hereby ordered to stabilize the streambanks to prevent further erosion or embankment failure around the existing road culvert and install erosion controls. You are so ordered based on the following facts:

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August 28, 2021 David and Joanne Cook Page Two

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Sincerely,

Barbara Kelly, Agent

Inland Wetlands Commission

Town of Bolton

bkelly@boltonct.org

cc:

Inland Wetlands Commission files

Interim Town Administrator



222 Bolton Center Road • Bolton, CT 06043

Inland Wetlands Commission (860) 649-8066

INLAND WETLANDS COMMISSION OF THE TOWN OF BOLTON CEASE AND RESTORE ORDER

August 28, 2021

Jayme and Thomas Mosier 634 Hop River Road Bolton, CT 06043

Re: Unstable Conditions on Mark Anthony Lane in Bolton Pond Brook Watercourse & Associated Wetlands – Emergency Establishment of Temporary Access

Dear Jayme and Thomas Mosier:

As owner of one of the lots comprising membership in the Mark Anthony Estates Common Driveway Association, Inc., by this letter you are hereby ordered to stabilize the streambanks to prevent further erosion or embankment failure around the existing road culvert and install erosion controls. You are so ordered based on the following facts:

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August 28, 2021 Jayme and Thomas Mosier Page Two

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Sincerely,

Barbara Kelly, Agent

Inland Wetlands Commission

Town of Bolton

bkelly@boltonct.org

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Inland Wetlands Commission files

Interim Town Administrator



222 Bolton Center Road • Bolton, CT 06043

Inland Wetlands Commission (860) 649-8066

INLAND WETLANDS COMMISSION OF THE TOWN OF BOLTON CEASE AND RESTORE ORDER

August 28, 2021

Ronald and Michelle Trudeau 624 Hop River Road Bolton, CT 06043

Re: Unstable Conditions on Mark Anthony Lane in Bolton Pond Brook Watercourse & Associated Wetlands – Emergency Establishment of Temporary Access

Dear Ronald and Michelle Trudeau:

As owner of one of the lots comprising membership in the Mark Anthony Estates Common Driveway Association, Inc., by this letter you are hereby ordered to stabilize the streambanks to prevent further erosion or embankment failure around the existing road culvert and install erosion controls. You are so ordered based on the following facts:

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August 28, 2021 Ronald and Michelle Trudeau Page Two of Two

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Sincerely,

Barbara Kelly, Agent

Inland Wetlands Commission

Town of Bolton

bkelly@boltonct.org

cc:

Inland Wetlands Commission files

Interim Town Administrator



222 Bolton Center Road • Bolton, CT 06043

Inland Wetlands Commission (860) 649-8066

INLAND WETLANDS COMMISSION OF THE TOWN OF BOLTON CEASE AND RESTORE ORDER

August 28, 2021

Richard and Evelyn O'Connor 638 Hop River Road Bolton, CT 06043

Re: Unstable Conditions on Mark Anthony Lane in Bolton Pond Brook Watercourse & Associated Wetlands – Emergency Establishment of Temporary Access

Dear Richard and Evelyn O'Connor:

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August 28, 2021 Richard and Evelyn O'Connor Page Two

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Barbara Kelly, Agent

Inland Wetlands Commission

Town of Bolton bkelly@boltonct.org

cc:

Inland Wetlands Commission files

Interim Town Administrator



222 Bolton Center Road • Bolton, CT 06043

Inland Wetlands Commission (860) 649-8066

INLAND WETLANDS COMMISSION OF THE TOWN OF BOLTON CEASE AND RESTORE ORDER

August 28, 2021

Arthur and Roseann Lajoie 644 Hop River Road Bolton, CT 06043

Re: Unstable Conditions on Mark Anthony Lane in Bolton Pond Brook Watercourse & Associated Wetlands – Emergency Establishment of Temporary Access

Dear Arthur and Roseann Lajoie:

As owner of one of the lots comprising membership in the Mark Anthony Estates Common Driveway Association, Inc., by this letter you are hereby ordered to stabilize the streambanks to prevent further erosion or embankment failure around the existing road culvert and install erosion controls. You are so ordered based on the following facts:

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August 28, 2021 Arthur and Roseann Lajoie Page Two

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Barbara Kelly, Agent

Inland Wetlands Commission

Babac Kelly

Town of Bolton bkelly@boltonct.org

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Inland Wetlands Commission files

Interim Town Administrator