Connecticut Department of Energy and Environmental Protection License*

Section 401 Water Quality Certification
Non-Consumptive Water Diversion Permit

Licensee(s):	Town of Thomaston
Licensee Address(s):	158 Main Street Thomaston CT 06787
License Number(s):	202507992-WQC & 202507995-DIV
Municipality:	Thomaston
Project Description:	Streambank Stabilization
Project Address/Location:	380 Old Northfield Rd
Waters:	Unnamed tributary to Black Rock Lake and associated wetlands
Authorizing CT Statute(s) and/or Federal Law:	CGS Section 22a-365 to 379; Section 401 CWA (33 USC 1341)
Applicable Regulations of CT State Agencies:	22a-372-1, 22a-377(b)-1, (c)-1, (c)-2, 22a-426-1 to 9
Agency Contact:	Land & Water Resources Division, Bureau of Water Protection & Land Reuse, 860-424-3019
License Expiration:	Five (5) years from the date of issuance of this license.
Project Site Plan Set:	21 plan sheets titled *Town of Thomaston Connecticut Old Northfield Rd Unnamed Tributary Stabilization and roadway Drainage Improvements,* dated October 15, 2025, with sheet C-501 revised through May 13, 2026, and prepared by Tighe & Bond, and *Old Northfield Road Watercourse Mitigation Plan* dated August 2026.

*Connecticut's Uniform Administrative Procedure Act defines License to include, "*the whole or part of any agency permit, certificate, approval, registration, charter or similar form of permission required by law . . .*"

License Enclosures: LWRD General Conditions; Site Plan Set; LWRD Compliance Certification Form; LWRD Work Commencement Form, Old Northfield Road Watercourse Mitigation Plan" dated August 2026

Authorized Activities:

The Licensee is hereby authorized to conduct the following work as described in application # 202507992-WQC & 202507995-DIV and as depicted on any site plan sheets / sets cited herein:

1. Retain work conducted in 2022 consisting of excavation of the streambed and placement of riprap on the north bank along 400 linear feet of the stream.
2. Stabilize approximately 400 linear feet of streambank as follows:

    a) Clear vegetation,

    b) Construct an access driveway,

    c) Install erosion and sedimentation control measures such as silt fence as shown on plan sheet C-401,

    d) Construct the temporary stream crossing,

    e) Install erosion and sedimentation controls on southeast side of watercourse,

    f) Construct water handling systems including sandbag cofferdams and bypass pipes,

    g) Conduct in-stream bank stabilization activities within the isolated work area,

    h) Install wetland and streambank plantings,

    i) Stabilize disturbed areas,

    j) Remove sandbag cofferdams and bypass pipes,

    k) Remove temporary stream crossing,

    l) Stabilize temporary disturbed areas from water handling, and

    m) Remove all erosion and sedimentation controls.

    The work will have a total of 672 sf of temporary impact and 2,110 sf of permanent impact to an unnamed watercourse and 3,572 square feet of temporary impact and 16,450 square feet of permanent impact to associated wetlands.

Failure to comply with the terms and conditions of this license shall subject the Licensee and / or the Licensee's contractor(s) to enforcement actions and penalties as provided by law.

This license is subject to the following Terms and Conditions:

1. **License Enclosure(s) and Conditions.** The Licensee shall comply with all applicable terms and conditions as may be stipulated within the License Enclosure(s) listed above.

2. **Natural Streambed Material**. The Licensee shall ensure that any riprap placed below the Ordinary High Water line has at least 12 inches of natural streambed material placed on top.
3. **DEEP Fisheries Division Coordination**. The Licensee must contact Andrew Miano at Andrew.J.Miano@ct.gov of the DEEP Fisheries Division a minimum of ten days prior to dewatering and before construction of any habitat enhancements.
4. **Water Handling.** If final water handling varies from that shown on the plans approved herein, the Licensee shall submit, at least two weeks prior to the commencement of work and for the Commissioner's review and written approval, a final water handling plan**.**
5. **Access Approvals.** The Licensee shall, prior to conducting the activities authorized herein, obtain all necessary construction access approvals**.**
6. **Restoration Planting Plan**. The Licensee shall conduct the restoration of wetlands on-site as shown on the plan sheet titled "Restoration Plan -1" C-501 dated October 15, 2025 and revised through May 13, 2026 and prepared by Tighe & Bond.
7. **Watercourse Mitigation Plan**. The Licensee shall conduct the mitigation in accordance with the written plan titled "Old Northfield Road Watercourse Mitigation Plan" dated August 2026 and the plan sheets titled "Off Site Mitigation Plan" C-700 and "Soil and Erosion and Sediment Control Notes and Details" C-701 dated May 13 2026 and prepared by Tighe & Bond.

   Planting shall be completed between April 1st and September 30th of the second year following the completion of site construction work, unless otherwise authorized in writing by the Commissioner
8. **Mitigation Monitoring and Reporting**. The Licensee shall monitor the mitigation site annually during the growing season (April 1 – September 30) and submit, annually, for a minimum of five years or until the performance standards are met, a corresponding Wetland/Watercourse Mitigation Monitoring Report. Such report shall be submitted to DEEP.LWRDRegulatory@ct.gov by December 15th of each year following the mitigation monitoring. The reports shall include, but not be limited to, the following: photos; dominant vegetation; hydrology and soil indicators; documentation of work conducted in mitigation areas; and status of meeting performance standards.

Issued under the authority of the Commissioner of Energy and Environmental Protection on:

_____ _____

Date

Tracy Babbidge
Acting Deputy Commissioner
Environmental Quality Branch

LWRD General Conditions

1. **Land Record Filing (for *Structures Dredging & Fill*, *Tidal Wetlands*, *Certificate of Permission*, and *Long Island Sound General Permit* Licenses only).** The Licensee shall file the Land Record Filing on the land records of the municipality in which the subject property is located not later than thirty (30) days after license issuance pursuant to Connecticut General Statutes (CGS) Section 22a-363g. A copy of the Notice with a stamp or other such proof of filing with the municipality shall be submitted to DEEP.LWRDRegulatory@ct.gov no later than sixty (60) days after license issuance. If a Land Record Filing form is not enclosed and the work site is not associated with an upland property, no filing is required.

2. **Contractor Notification.** The Licensee shall give a copy of the license and its attachments to the contractor(s) who will be carrying out the authorized activities prior to the start of construction and shall receive a written receipt for such copy, signed and dated by such contractor(s). The Licensee's contractor(s) shall conduct all operations at the site in full compliance with the license and, to the extent provided by law, may be held liable for any violation of the terms and conditions of the license. At the work site, the contractor(s) shall, whenever work is being performed, have on site and make available for inspection a copy of the license and the authorized plans.

3. **Work Commencement.** Not later than two (2) weeks prior to the commencement of any work authorized herein, the Licensee shall submit to DEEP.LWRDRegulatory@ct.gov, on the Work Commencement Form attached hereto, the name(s) and address(es) of all contractor(s) employed to conduct such work and the expected date for commencement and completion of such work, if any.

    - For water diversion activities authorized pursuant to 22a-377(c)-1 of the Regulations of Connecticut State Agencies, the Licensee shall also notify the Commissioner in writing two weeks prior to initiating the authorized diversion.
    - For emergency activities authorized pursuant to Connecticut General Statutes Section 22a-6k, the Licensee shall also notify the Commissioner, in writing, of activity commencement at least one (1) day prior to construction and of activity completion no later than five (5) days after conclusion.
    - The Work Commencement condition and the need for a Work Commencement Form is not applicable to Flood Management Certification approvals.

4. **For Coastal Licenses Only - License Notice.** The Licensee shall post the first page of the License in a conspicuous place at the work area while the work authorized therein is undertaken.

5. **Unauthorized Activities.** Except as specifically authorized, no equipment or material, including but not limited to, fill, construction materials, excavated material or debris, shall be deposited, placed or stored in any wetland or watercourse on or off-site. The Licensee may not

conduct work within wetlands or watercourses other than as specifically authorized, unless otherwise authorized in writing by the Commissioner. Tidal wetlands means "wetland" as defined by section 22a-29 and "freshwater wetlands and watercourses" means "wetlands" and "watercourses" as defined by section 22a-38.

6. **Management of Materials.** Any materials removed from the site shall be managed in accordance with all federal, state, and local requirements, including Chapter 446K Water Pollution Control, Chapter 445 Hazardous Waste, and Chapter 446d Solid Waste of the Connecticut General Statutes.

7. **Unconfined Instream Work.** Unless otherwise noted in a condition of the license, the following conditions apply to projects in non-coastal waters:

   - Unconfined instream work is limited to the period June 1 through September 30.
   - Confinement of a work area by cofferdam techniques using sand bag placement, sheet pile installation (vibratory method only), portadam, or similar confinement devices is allowed any time of the year. The removal of such confinement devices is allowed any time of the year.
   - Once a work area has been confined, in-water work within the confined area is allowed any time of the year.
   - The confinement technique used shall completely isolate and protect the confined area from all flowing water. The use of silt boom/curtain or similar technique as a means for confinement is prohibited.

8. **For State Actions Only - Material or Equipment Storage in the Floodplain.** Unless approved by a Flood Management Exemption, the storage of any materials at the site which are buoyant, hazardous, flammable, explosive, soluble, expansive, radioactive, or which could in the event of a flood be injurious to human, animal or plant life, below the elevation of the five-hundred (500) year flood is prohibited. Any other material or equipment stored at the site below said elevation by the Licensee or the Licensee's contractor must be firmly anchored, restrained or enclosed to prevent flotation. The quantity of fuel stored below such elevation for equipment used at the site shall not exceed the quantity of fuel that is expected to be used by such equipment in one day. In accordance with the licensee's Flood Contingency Plan, the Licensee shall remove equipment and materials from the floodplain during periods when flood warnings have been issued or are anticipated by a responsible federal, state or local agency. It shall be the Licensee's responsibility to obtain such warnings when flooding is anticipated.

9. **Temporary Hydraulic Facilities for Water Handling.** If not reviewed and approved as a part of the license application, temporary hydraulic facilities shall be designed by a qualified professional and in accordance with the *Connecticut Guidelines for Soil Erosion and Sediment Control* as revised, the *Connecticut Stormwater Quality Manual* as revised, or the Department of Transportation's *CTDOT Drainage Manual,* as applicable. Temporary hydraulic facilities may include channels, culverts or bridges which are required for haul roads, channel relocations, culvert installations, bridge construction, temporary roads, or detours.

10. **Excavated Materials.** Unless otherwise authorized, all excavated material shall be staged and

managed in a manner which prevents additional impacts to wetlands and watercourses.

11. **Best Management Practices.** The Licensee shall not cause or allow pollution of any wetlands or watercourses, including pollution resulting from sedimentation and erosion. In constructing or maintaining any authorized structure or facility or conducting any authorized activity, or in removing any such structure or facility, the Licensee shall employ best management practices to control storm water discharges, to prevent erosion and sedimentation, and to otherwise prevent pollution of wetlands and other waters of the State. For purposes of the license, "pollution" means "pollution" as that term is defined by CGS section 22a-423. Best Management Practices include, but are not limited, to practices identified in the *Connecticut Guidelines for Soil Erosion and Sediment Control* as revised, *Connecticut Stormwater Quality Manual* as revised, Department of Transportation's *CTDOT Drainage Manual* as revised, and the Department of Transportation Standard Specifications as revised.

12. **In-Water Work Vessel Staging and Storage. (for Structures Dredging & Fill, Tidal *Wetlands*, *Certificate of Permission*, and *Long Island Sound General Permit* Licenses only).** For any barge, vessel, skiff or floating work platform ("work vessels") utilized in the execution of the work authorized herein, the Licensee shall ensure that such work vessels:
    - do not rest on, or come in contact with, the substrate at any time, unless specifically authorized in the license.
    - are not stored over intertidal flats, submerged aquatic vegetation or tidal wetland vegetation or in a location that interferes with navigation. In the event any work vessel is grounded, no dragging or prop dredging shall occur to free it.

13. **Work Site Restoration.** Upon completion of any authorized work, the Licensee shall restore all areas temporarily impacted by construction, or used as a staging area or accessway in connection with such work, to their condition prior to the commencement of such work.

14. **Inspection.** The Licensee shall allow any representative of the Commissioner to inspect the project location at reasonable times to ensure that work is being or has been conducted in accordance with the terms and conditions of this license.

15. **Change of Use. (Applies only if a use is specified within the License "*Project Description*")**
    a. The work specified in the license is authorized solely for the purpose set forth in the license. No change in purpose or use of the authorized work or facilities as set forth in the license may occur without the prior written approval of the Commissioner. The Licensee shall, prior to undertaking or allowing any change in use or purpose from that which is authorized by this license, request permission from the Commissioner for such change. Said request shall be in writing and shall describe the proposed change and the reason for the change.

    b. A change in the form of ownership of any structure authorized herein from a rental/lease commercial marina to a wholly-owned common interest community or dockominium may constitute a change in purpose as specified in paragraph (a) above.

16. **Structure Use (for Structures Dredging & Fill, Tidal Wetlands, Certificate of Permission, and Long Island Sound General Permit Licenses only).** The use of fixed or floating

structures, authorized herein, or berthed vessels, for permanent, temporary, or seasonal occupancy, when the primary purpose of such occupancy is the provision of overnight lodging accommodations, is a violation of this license. Sleeping aboard vessels is allowed as a secondary use of the vessel's principal water-dependent use. A water-dependent use is one that requires direct access to marine or tidal waters and which therefor cannot be located inland.

- A residential dock is for private access to the waters of the state as an accessory to residential upland use. Any other use or any commercial use, is a violation of this license.
- Structures at marinas and other water-dependent sites shall be used for the berthing of vessels solely for water-dependent purposes such as navigation and recreational or commercial boating. Any use of structures or berthed vessels for non-water dependent purposes is a violation of this license.

17. **De Minimis Alteration.** The Licensee shall not deviate from the authorized activity without prior written approval from the Commissioner. The Licensee may request a de minimis change to any authorized structure, facility, or activity. A de minimis alteration means a change in the authorized design, construction or operation that individually and cumulatively has minimal additional environmental impact and does not substantively alter the project as authorized.
    - For diversion activities authorized pursuant to 22a-377(c)-2 of the Regulations of Connecticut State Agencies, a de minimis alteration means an alteration which does not significantly increase the quantity of water diverted or significantly change the capacity to divert water.

18. **Extension Request.** The Licensee may request an extension of the license expiration date. Such request shall be in writing and shall be submitted to DEEP.LWRDRegulatory@ct.gov at least thirty (30) days prior to the license expiration. Such request shall describe the work done to date, what work still needs to be completed, and the reason for such extension. The Commissioner may extend the expiration date of this license for a period of up to one year, in order for the Licensee to complete the authorized activities. It shall be at the Commissioner's sole discretion to grant or deny such request. No more than three (3) one-year extensions will be granted under this license.

19. **Compliance Certification.** Not later than 90 days after completion of the authorized work, the Licensee shall prepare and submit to DEEP.LWRDRegulatory@ct.gov, the attached Compliance Certification Form. Such Compliance Certification shall be completed, signed, and sealed by the Licensee and a Connecticut Licensed Design Professional. If non-compliance is indicated on the form, or the Commissioner has reason to believe the activities and/or structures were conducted in non-compliance with the license, the Commissioner may require the Licensee to submit as-built plans as a condition of this license.
    - The Compliance Certificaton condition and the need for a Compliance Certification Form is not applicable to Flood Management Certification approvals.

20. **Maintenance.** The Licensee shall maintain all authorized structures or work in optimal condition or shall remove such structures or facility and restore the affected waters to their pre-work condition. Any such maintenance or removal activity shall be conducted in accordance with applicable law and any additional approvals required by law.

21. **No Work After License Expiration.** Work conducted after the license expiration date is a violation of the license and may subject the licensee to enforcement action, including penalties, as provided by law.

22. **License Transfer.** The license is not transferable without prior written authorization of the Commissioner. A request to transfer a license shall be submitted in writing and shall describe the proposed transfer and the reason for such transfer. The Licensee's obligations under the license shall not be affected by the passage of title to the license site to any other person or municipality until such time as a transfer is approved by the Commissioner.

23. **Document Submission.** Any document required to be submitted to the Commissioner under the license or any contact required to be made with the Commissioner shall, unless otherwise specified in writing by the Commissioner, be directed to:

    DEEP.LWRDRegulatory@ct.gov or

    Regulatory Section
    Land & Water Resources Division
    Department of Energy and Environmental Protection
    79 Elm Street
    Hartford, Connecticut 06106-5127
    860-424-3019

24. **Date of Document Submission.** The date of submission to the Commissioner of any document required by the license shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under the license, including but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is personally delivered or the date three (3) days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in the license, the word "day" as used in the license means calendar day. Any document or action which is required by the license to be submitted or performed by a date which falls on a Saturday, Sunday or a Connecticut or federal holiday shall be submitted or performed on or before the next day which is not a Saturday, Sunday, or a Connecticut or federal holiday.

25. **Certification of Documents.** Any document, including but not limited to any notice, which is required to be submitted to the Commissioner under the license shall be signed by the Licensee and by the individual or individuals responsible for actually preparing such document, each of whom shall certify in writing as follows: "I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statement made in this document or its attachments may be punishable as a criminal offense."

26. **Accuracy of Documentation.** In evaluating the application for the license, the Commissioner has relied on information and data provided by the Licensee and on the Licensee's representations concerning site conditions, design specifications and the proposed work, including but not limited to representations concerning the commercial, public or private nature

of the work or structures, the water-dependency of said work or structures, its availability for access by the general public, and the ownership of regulated structures or filled areas. If such information proves to be false, deceptive, incomplete or inaccurate, the license may be modified, suspended or revoked, and any unauthorized activities may be subject to enforcement action.

27. **Limits of Liability.** In granting the license, the Commissioner has relied on all representations of the Licensee, including information and data provided in support of the Licensee's application. Neither the Licensee's representations nor the issuance of the license shall constitute an assurance by the Commissioner as to the structural integrity, the engineering feasibility or the efficacy of such design.

28. **Reporting of Violations.** In the event that the Licensee becomes aware that they did not or may not comply, or did not or may not comply on time, with any provision of this license or of any document incorporated into the license, the Licensee shall immediately notify the agency contact specified within the license and shall take all reasonable steps to ensure that any noncompliance or delay is avoided or, if unavoidable, is minimized to the greatest extent possible. In so notifying the agency contact, the Licensee shall provide, for the agency's review and written approval, a report including the following information:

    a. the provision(s) of the license that has been violated;

    b. the date and time the violation(s) was first observed and by whom;

    c. the cause of the violation(s), if known;

    d. if the violation(s) has ceased, the duration of the violation(s) and the exact date(s) and times(s) it was corrected;

    e. if the violation(s) has not ceased, the anticipated date when it will be corrected;

    f. steps taken and steps planned to prevent a reoccurrence of the violation(s) and the date(s) such steps were implemented or will be implemented; and

    g. the signatures of the Licensee and of the individual(s) responsible for actually preparing such report.

    If the violation occurs outside of normal business hours, the Licensee shall contact the Department of Energy and Environmental Protection Emergency Dispatch at 860-424-3333. The Licensee shall comply with any dates which may be approved in writing by the Commissioner.

29. **Revocation/Suspension/Modification.** The license may be revoked, suspended, or modified in accordance with applicable law.

30. **Other Required Approvals.** License issuance does not relieve the Licensee of their obligations to obtain any other approvals required by applicable federal, state and local law.

31. **Rights.** The license is subject to and does not derogate any present or future property rights or powers of the State of Connecticut, and conveys no property rights in real estate or material nor any exclusive privileges, and is further subject to any and all public and private rights and

to any federal, state or local laws or regulations pertinent to the property or activity affected hereby.

32. **Condition Conflicts.** In the case where a project specific special condition listed on the license differs from, or conflicts with, one of the general conditions listed herein, the project specific special condition language shall prevail. It is the licensee's responsibility to contact the agency contact person listed on the license for clarification if needed prior to conducting any further regulated activities.

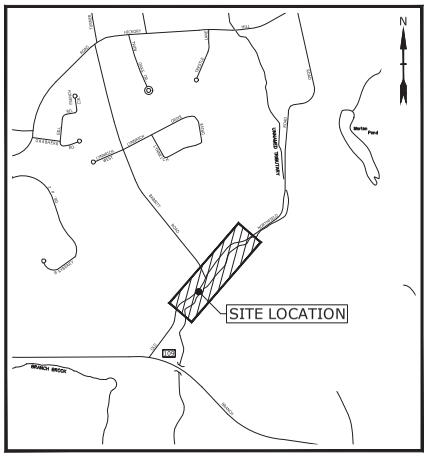
TOWN OF THOMASTON, CONNECTICUT

OLD NORTHFIELD ROAD

UNNAMED TRIBUTARY STABILIZATION AND ROADWAY DRAINAGE IMPROVEMENTS

USACE/CTDEEP SUBMISSION
OCTOBER 15, 2025

LIST OF DRAWINGS		
SHEET NO.	DRAWING NO.	DRAWING TITLE
1	C-000	COVER SHEET
2	C-001	GENERAL NOTES, LEGENDS, AND ABBREVIATIONS
3	C-002	INDEX PLAN
4	C-003	EXISTING CONDITION PLAN - 1
5	C-004	EXISTING CONDITION PLAN - 2
6	C-010	WATERCOURSE & WETLAND DISTURBANCE PLAN
7	C-101	STREAM STABILIZATION PLAN
8	C-102	STREAM CROSS SECTIONS 0+00 TO 4+50
9	C-201	WATER HANDLING PLAN
10	C-301	ROADWAY DRAINAGE PLAN - 1
11	C-302	ROADWAY DRAINAGE PLAN - 2
12	C-401	SOIL EROSION AND SEDIMENT CONTROL PLAN - 1
13	C-402	SOIL EROSION AND SEDIMENT CONTROL PLAN - 2
14	C-403	SOIL EROSION AND SEDIMENT CONTROL DETAILS
15	C-501	RESTORATION PLAN - 1
16	C-502	RESTORATION PLAN - 2
17	C-601	DETAILS - 1
18	C-602	DETAILS - 2
19	C-603	DETAILS - 3
20	C-604	DETAILS - 4
21	C-605	DETAILS - 5



LOCATION MAP
SCALE: 1" = 1000'

PREPARED BY:

Tighe&Bond
1000 Bridgeport Avenue
Suite 320
Shelton, CT 06484
(203) 712-1100

PREPARED FOR:

TOWN OF THOMASTON

FIRST SELECTMAN: EDMOND V. MONE

LAND USE ADMINISTRATOR: TONY ADILI

THIS DOCUMENT IS INCOMPLETE AND IS RELEASED TEMPORARILY FOR PROGRESS REVIEW ONLY. IT IS NOT INTENDED FOR BIDDING OR CONSTRUCTION PURPOSES.

COMPLETE SET 21 SHEETS

Last Saved: 10/15/2025
Plotted On:Oct 15, 2025 4:49pm By: TAS
File & Path: J:\2023\23-3\Thomaston-OldNFRd-ecm\41_Old Northfield Road\Drawings\Auto\CAD\Sheet\23233-41-C-000-COVR-DEEP-USACE.dwg

GENERAL NOTES

1. NOTIFY CALL BEFORE YOU DIG AT 1-800-922-4455 AND OTHER UTILITY OWNERS IN THE AREA NOT ON THE CALL BEFORE YOU DIG LIST AT LEAST 72 HOURS PRIOR TO ANY DIGGING, TRENCHING, ROCK REMOVAL, DEMOLITION, BORING, BACKFILLING, GRADING, LANDSCAPING, OR ANY OTHER EARTH MOVING OPERATIONS.
2. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IN ADDITION, SOME UTILITIES MAY NOT BE SHOWN. DETERMINE THE EXACT LOCATION OF UTILITIES BY TEST PIT OR OTHER METHODS, AS NECESSARY TO PREVENT DAMAGE TO UTILITIES AND/OR INTERRUPTIONS IN UTILITY SERVICE. PERFORM TEST PIT EXCAVATIONS AND OTHER INVESTIGATIONS TO LOCATE UTILITIES, AND PROVIDE THIS INFORMATION TO THE ENGINEER, PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS. LOCATE ALL EXISTING UTILITIES TO BE CROSSED BY HAND EXCAVATION.
3. NOT ALL OF THE UTILITY SERVICES TO BUILDINGS ARE SHOWN. THE CONTRACTOR SHALL ANTICIPATE THAT EACH PROPERTY HAS SERVICE CONNECTIONS FOR THE VARIOUS UTILITIES.
4. BOLD TEXT AND LINES INDICATE PROPOSED WORK. LIGHT TEXT AND LINES INDICATE APPROXIMATE EXISTING CONDITIONS.
5. TIGHE & BOND ASSUMES NO RESPONSIBILITY FOR ANY ISSUES, LEGAL OR OTHERWISE, RESULTING FROM CHANGES MADE TO THESE DRAWINGS WITHOUT WRITTEN AUTHORIZATION FROM TIGHE & BOND.
6. EXCAVATE ADDITIONAL TEST PITS TO LOCATE EXISTING UTILITIES AS DIRECTED OR APPROVED BY THE ENGINEER.
7. NOTIFY THE ENGINEER OF ANY UTILITIES IDENTIFIED DURING CONSTRUCTION THAT ARE NOT SHOWN ON THE DRAWINGS OR THAT DIFFER IN SIZE OR MATERIAL.
8. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY; COORDINATION WITH THE OWNER, ALL SUBCONTRACTORS, AND WITH OTHER CONTRACTORS WORKING WITHIN THE LIMITS OF WORK, THE MEANS AND METHODS OF CONSTRUCTING THE PROPOSED WORK.
9. OBTAIN, PAY FOR AND COMPLY WITH PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK. ARRANGE AND PAY FOR NECESSARY INSPECTIONS AND APPROVALS FROM THE JURISDICTIONAL AUTHORITIES.
10. SHORE UTILITY TRENCHES WHERE FIELD CONDITIONS DICTATE AND/OR WHERE REQUIRED BY LOCAL, STATE AND FEDERAL HEALTH AND SAFETY CODES.
11. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF FIELD CONDITIONS ARE OBSERVED THAT VARY SIGNIFICANTLY FROM THOSE SHOWN ON THE DRAWINGS, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING FOR RESOLUTION OF THE CONFLICTING INFORMATION.
12. PROTECT AND MAINTAIN ALL UTILITIES IN THE AREAS UNDER CONSTRUCTION DURING THE WORK. LEAVE ALL PIPES AND STRUCTURES WITHIN THE LIMITS OF THE CONTRACT IN A CLEAN AND OPERABLE CONDITION AT THE COMPLETION OF THE WORK. TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SAND AND SILT FROM DISTURBED AREAS FROM ENTERING THE DRAINAGE SYSTEM.
13. NOTIFY THE ENGINEER IN WRITING OF ANY CONFLICT, ERROR, AMBIGUITY, OR DISCREPANCY WITH THE PLANS OR BETWEEN THE PLANS AND ANY APPLICABLE LAW, REGULATION, CODE, STANDARD SPECIFICATION, OR MANUFACTURER'S INSTRUCTIONS.
14. THE CONTRACTOR IS RESPONSIBLE FOR SUPPORT OF EXISTING UTILITIES AND REPAIR OR REPLACEMENT COSTS OF UTILITIES DAMAGED DURING CONSTRUCTION, WHETHER ABOVE OR BELOW GRADE. REPLACE DAMAGED UTILITIES IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER AND AT NO COST TO THE PROPERTY OWNER.
15. TAKE NECESSARY MEASURES AND PROVIDE CONTINUOUS BARRIERS OF SUFFICIENT TYPE, SIZE, AND STRENGTH TO PREVENT ACCESS TO ALL WORK AND STAGING AREAS AT THE COMPLETION OF EACH DAYS WORK.
16. NO OPEN TRENCHES WILL BE ALLOWED OVER NIGHT. THE USE OF ROAD PLATES TO PROTECT THE EXCAVATION WILL BE CONSIDERED UPON REQUEST, BUT BACKFILLING IS PREFERRED.
17. THE CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY TRAFFIC CONTROL/SAFETY DEVICES TO ENSURE SAFE VEHICULAR AND PEDESTRIAN ACCESS THROUGH THE WORK AREA, OR FOR SAFELY IMPLEMENTING DETOURS AROUND THE WORK AREA. PERFORM TRAFFIC CONTROL IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED TRAFFIC CONTROL PLAN.
18. MAINTAIN EMERGENCY ACCESS TO ALL PROPERTIES WITHIN THE PROJECT AREA AT ALL TIMES DURING CONSTRUCTION.
19. WHEN WORKING IN THE ROAD, PROVIDE THE OWNER AND LOCAL FIRE/POLICE/SCHOOL AUTHORITIES A DETAILED PLAN OF APPROACH INDICATING METHODS OF PROPOSED TRAFFIC ROUTING ON A DAILY BASIS. PROVIDE COORDINATION TO ENSURE COMMUNICATION AND COORDINATION BETWEEN THE OWNER, CONTRACTOR AND LOCAL FIRE/POLICE/SCHOOL AUTHORITIES THROUGHOUT THE CONSTRUCTION PERIOD.
20. REMOVE AND DISPOSE OF ALL CONSTRUCTION-RELATED WASTE MATERIALS AND DEBRIS IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.
21. THE TERM "DEMOLISH" USED ON THE DRAWINGS MEANS TO REMOVE AND DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
22. THE TERM "ABANDON" USED ON THE DRAWINGS MEANS TO LEAVE IN PLACE AND TAKE APPROPRIATE MEASURES TO DECOMMISSION AS SPECIFIED OR NOTED ON THE DRAWINGS.
23. ALL PROPOSED WORK MAY BE ADJUSTED IN THE FIELD BY THE OWNER'S PROJECT REPRESENTATIVE TO MEET EXISTING CONDITIONS.

LEGEND

DESCRIPTION	EXISTING	PROPOSED
PROPERTY LINE		
RIGHT-OF-WAY LINE		
EASEMENT LINE		
LIMITS OF WORK		
INTERMEDIATE CONTOURS		
INDEX CONTOURS	25	25
SPOT GRADE	X 141.2	+ 32.0
MAGNITUDE & DIRECTION OF SLOPE		0.0%
STORM DRAIN	SD SD	
STORM UNDERDRAIN		UD
GRAVITY SANITARY SEWER	SS SS	SS SS
SANITARY SEWER FORCE MAIN	SFM	SFM
SANITARY SEWER LOW PRESSURE	SSLP SSLP	SSLP
SANITARY SEWER COMBINED	COMB	COMB
WATER SERVICE	W W	W W
POTABLE WATER	PW	PW PW
FIRE SERVICE		F F
HIGH PRESSURE FIRE SERVICE		F-HP F-HP
UNDERGROUND ELECTRIC	E E	E E
PRIMARY ELECTRIC SERVICE	PE	PE PE
SECONDARY ELECTRIC	SE	SE SE
OVERHEAD ELECTRIC	OE OE	OE OE
TELEPHONE SERVICE	T T	T T
TEL-DATA SERVICE	T-D T-D	T-D T-D
COMMUNICATIONS SERVICE	T-C T-C	T-C T-C
CABLE TV SERVICE	CTV CTV	CTV CTV
GAS SERVICE	G G	G G
OVERHEAD UTILITY (UNSPECIFIED)	OHW OHW	
CURB		
EDGE OF PAVEMENT		
DIRT ROAD		
SIDEWALK		
RETAINING WALL		
STONE WALL		
FENCE - UNSPECIFIED	X X X	X X X
FENCE - CHAIN LINK		
FENCE - WOOD POST		
GUARDRAIL		
METAL BEAM RAIL		
TRAIN TRACKS		
STORM DRAIN STRUCTURES	MANHOLE CATCH BASIN CB	MANHOLE AREA DRAIN CATCH BASIN
SANITARY SEWER MANHOLE	S	S
WATER SERVICE STRUCTURES	HYDRANT MANHOLE VALVE	HYDRANT MANHOLE W VALVE
GAS SERVICE STRUCTURES	MANHOLE VALVE	MANHOLE G VALVE
ELECTRIC SERVICE STRUCTURES	UTILITY CO. POLE # MANHOLE LIGHT	UTILITY CO. POLE # MANHOLE E LIGHT
TELECOMMUNICATIONS MANHOLE	T	T
TREELINE		
TREE	EVERGREEN DECIDUOUS	EVERGREEN DECIDUOUS

ABBREVIATIONS

ABDN('D)	ABANDON(ED)	MISC	MISCELLANEOUS
AC	ASBESTOS CEMENT PIPE	MON	MONUMENT
BC	BITUMINOUS CURB	MJ	MECHANICAL JOINT
BFP	BACK FLOW PREVENTOR	N	NORTH
BIT	BITUMINOUS	NITC	NOT IN THIS CONTRACT
BL	BASELINE	NTS	NOT TO SCALE
BLDG	BUILDING	N/A	NOT APPLICABLE
BND	BOUND	N/F	NOW OR FORMERLY
BOC	BOTTOM OF CURB	OC	ON CENTER
BOT	BOTTOM	OCS	OUTLET CONTROL STRUCTURE
BS	BOTTOM OF STEP	OH	OVERHEAD
BW	BOTTOM OF WALL	PB	PLANT BED
CATV	CABLE TELEVISION	PC	POINT OF CURVATURE
CB	CATCH BASIN	PCC	POINT OF COMPOUND CURVATURE
CEM	CEMENT	PCPP	PERFORATED CORRUGATED POLYETHYLENE PIPE
CI	CAST IRON PIPE	PERF	PERFORATED
CL	CENTERLINE	PI	POINT OF INTERSECTION
CLF	CHAIN LINK FENCE	PRC	POINT OF REVERSE CURVATURE
CO	CLEAN OUT	PSF	POUNDS PER SQUARE FOOT
CONC	CONCRETE	PSI	POUNDS PER SQUARE INCH
CPP	CORRUGATED POLYETHYLENE PIPE	PT	POINT OF TANGENCY
CY	CUBIC YARD	PVC	POLYVINYLCHLORIDE
DH	DRILL HOLE	PVMT	PAVEMENT
DI	DUCTILE IRON PIPE	R	RADIUS
DIA	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DMH	DRAIN MANHOLE	RD	ROOF DRAIN
E	EAST	REV	REVISION
EF	EACH FACE	ROW	RIGHT OF WAY
EG	EXISTING GRADE	RT	RIGHT
EL/ELEV	ELEVATION	R&D	REMOVE AND DISPOSE
ELEC	ELECTRIC	R&R	REMOVE AND RESET
EMH	ELECTRIC MANHOLE	R&S	REMOVE AND STACK
EOP	EDGE OF PAVEMENT	S	SOUTH
EW	EACH WAY	SAN	SANITARY
EXIST	EXISTING	SCH	SCHEDULE
FES	FLARED END SECTION	SF	SQUARE FOOT
FF	FINISH FLOOR	SMH	SEWER MANHOLE
FM	FORCE MAIN	SS	STAINLESS STEEL
G	GAS	STA	STATION
GG	GAS GATE	STL	STEEL
GRAN	GRANITE	STRM	STORM
HC	HANDICAP	T	TANGENT LENGTH
HDPE	HIGH DENSITY POLYETHYLENE	TC	TOP OF CURB
HMA	HOT MIX ASPHALT	TEL	TEL-DATA
HYD	HYDRANT	TP	TEST PIT
IN	INCHES	TS	TOP OF STEP
INV	INVERT	TW	TOP OF WALL
IP	IRON PIN	TYP	TYPICAL
L	LENGTH OF CURB	UP	UTILITY POLE
LP	LIGHT POLE	W	WATER
LT	LEFT	WG	WATER GATE
MAX	MAXIMUM	WV	WATER VALVE
MH	MANHOLE	XFMR	TRANSFORMER
MIN	MINIMUM		

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Town of Thomaston

Old Northfield Rd

Unnamed Tributary Stabilization and Roadway Drainage Improvements

Thomaston, CT

MARK	DATE	DESCRIPTION

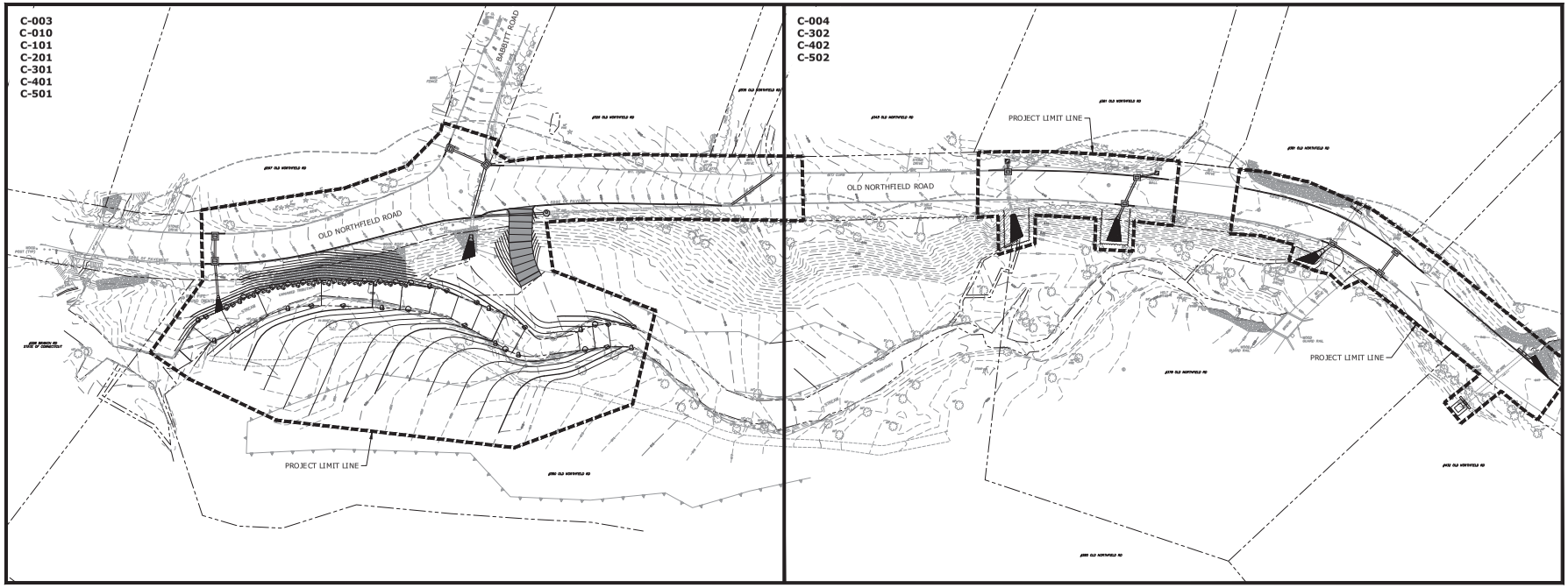
PROJECT NO:	T0233-041
DATE:	10/15/2025
FILE:	T0233-41-C-001-GEN.dwg
DRAWN BY:	NG/TAS
CHECKED BY:	JAC
APPROVED BY:	CJC

GENERAL NOTES, LEGEND, AND ABBREVIATIONS

SCALE: NO SCALE

C-001

Last Saved: 10/15/2025
Plotted On: Oct 15, 2025 4:49pm By: TAS
File & Xrefs: I:\T0233\Documents\Civil\Engr\41 Old Northfield Road\Drawings\AutoCAD\Sheet\T0233-41-C-001-GEN.dwg



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Thomaston, CT

MARK	DATE	DESCRIPTION
PROJECT NO:		T0233-041
DATE:		10/15/2025
FILE:		T0233-41-C-002-INDEX.dwg
DRAWN BY:		NG/TAS
CHECKED BY:		JAC
APPROVED BY:		CJC

INDEX PLAN

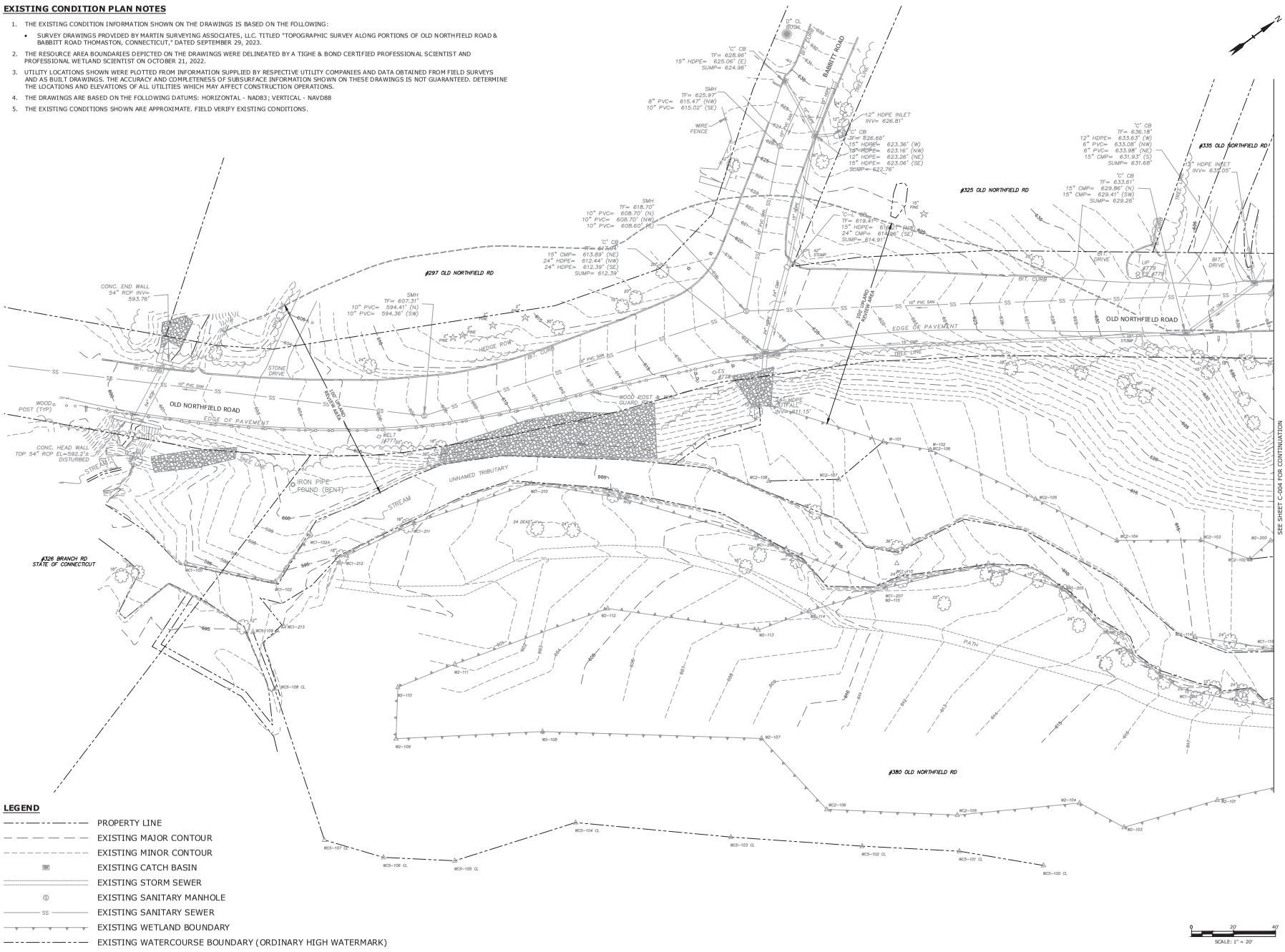
SCALE: 1" = 40'

C-002

Last Saved: 8/22/2025
Plotted On: Oct 15, 2025 4:49pm By: TAS
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EXISTING CONDITION PLAN NOTES

1. THE EXISTING CONDITION INFORMATION SHOWN ON THE DRAWINGS IS BASED ON THE FOLLOWING:
   - SURVEY DRAWINGS PROVIDED BY MARTIN SURVEYING ASSOCIATES, LLC. TITLED "TOPOGRAPHIC SURVEY ALONG PORTIONS OF OLD NORTHFIELD ROAD & BABBITT ROAD THOMASTON, CONNECTICUT," DATED SEPTEMBER 29, 2023.
2. THE RESOURCE AREA BOUNDARIES DEPICTED ON THE DRAWINGS WERE DELINEATED BY A TIGHE & BOND CERTIFIED PROFESSIONAL SCIENTIST AND PROFESSIONAL WETLAND SCIENTIST ON OCTOBER 21, 2022.
3. UTILITY LOCATIONS SHOWN WERE PLOTTED FROM INFORMATION SUPPLIED BY RESPECTIVE UTILITY COMPANIES AND DATA OBTAINED FROM FIELD SURVEYS AND AS BUILT DRAWINGS. THE ACCURACY AND COMPLETENESS OF SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS IS NOT GUARANTEED. DETERMINE THE LOCATIONS AND ELEVATIONS OF ALL UTILITIES WHICH MAY AFFECT CONSTRUCTION OPERATIONS.
4. THE DRAWINGS ARE BASED ON THE FOLLOWING DATUMS: HORIZONTAL - NAD83; VERTICAL - NAVD88
5. THE EXISTING CONDITIONS SHOWN ARE APPROXIMATE. FIELD VERIFY EXISTING CONDITIONS.



LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING CATCH BASIN
- EXISTING STORM SEWER
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY SEWER
- EXISTING WETLAND BOUNDARY
- EXISTING WATERCOURSE BOUNDARY (ORDINARY HIGH WATERMARK)

SCALE: 1" = 20'

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Town of Thomaston

Old Northfield Rd

Unnamed Tributary Stabilization and Roadway Drainage Improvements

Thomaston, CT

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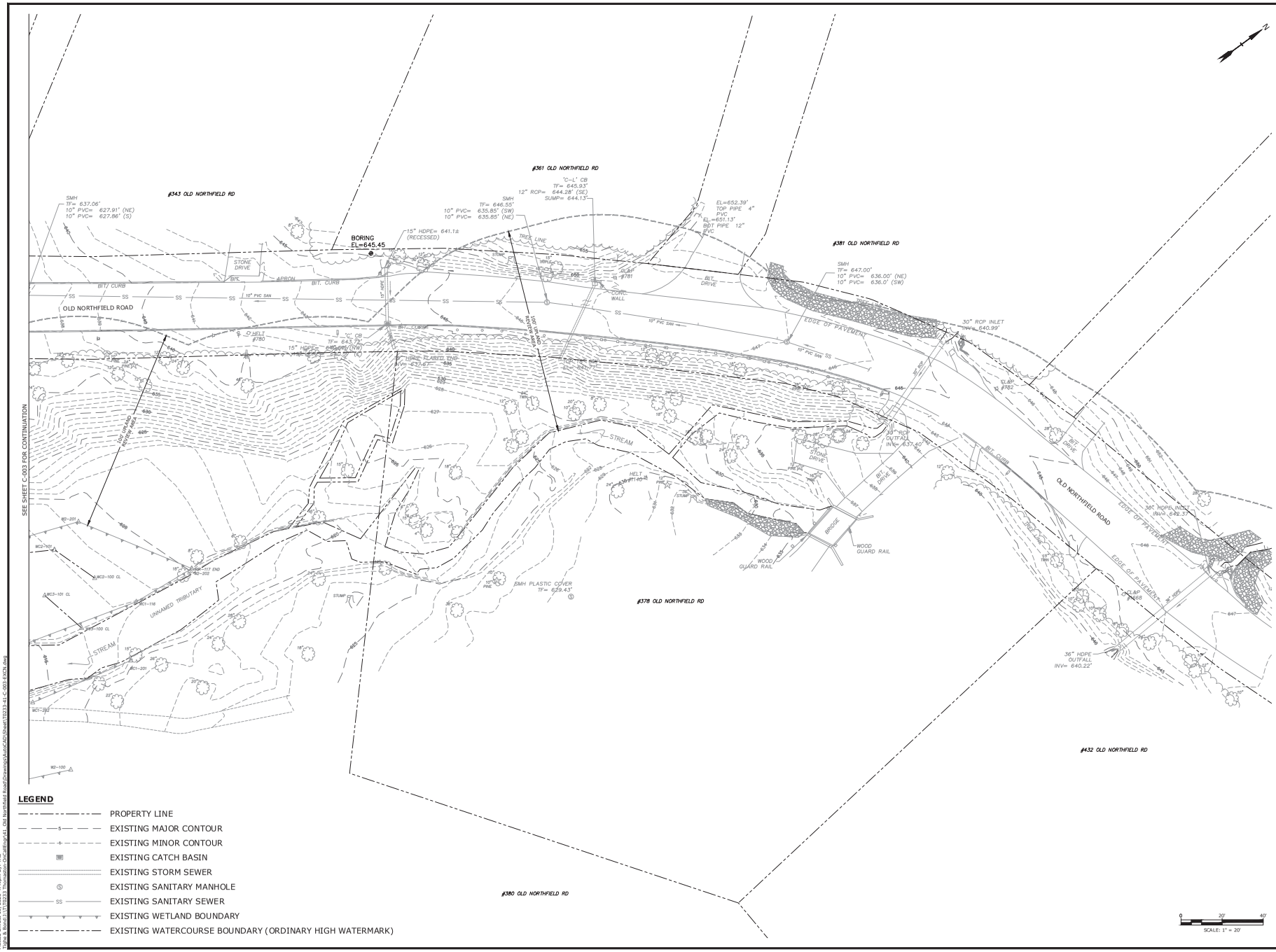
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DATE:	10/15/2025
FILE:	T0233-41-C-003-EXCN.dwg
DRAWN BY:	NG/TAS
CHECKED BY:	JAC
APPROVED BY:	CJC

EXISTING CONDITION PLAN - 1

SCALE: 1" = 20'

C-003

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LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING CATCH BASIN
- EXISTING STORM SEWER
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY SEWER
- EXISTING WETLAND BOUNDARY
- EXISTING WATERCOURSE BOUNDARY (ORDINARY HIGH WATERMARK)

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Town of Thomaston

Old Northfield Rd

Unnamed Tributary Stabilization and Roadway Drainage Improvements

Thomaston, CT

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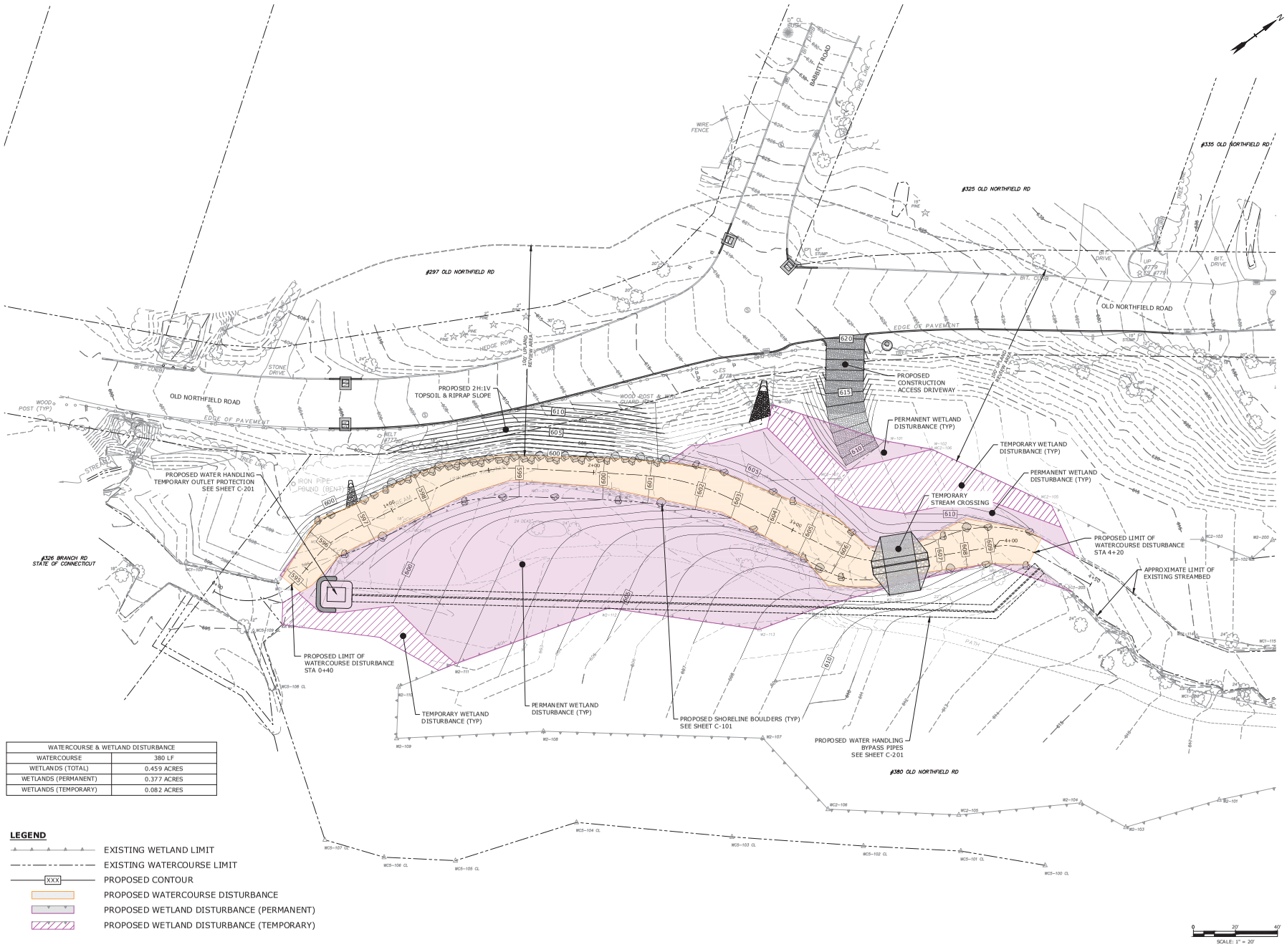
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DATE:	10/15/2025
FILE:	T0233-41-C-003-EXCN.dwg
DRAWN BY:	NG/TAS
CHECKED BY:	JAC
APPROVED BY:	CJC

EXISTING CONDITION PLAN - 2

SCALE: 1" = 20'

C-004

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WATERCOURSE & WETLAND DISTURBANCE	
WATERCOURSE	380 LF
WETLANDS (TOTAL)	0.459 ACRES
WETLANDS (PERMANENT)	0.377 ACRES
WETLANDS (TEMPORARY)	0.082 ACRES

LEGEND

- EXISTING WETLAND LIMIT
- EXISTING WATERCOURSE LIMIT
- PROPOSED CONTOUR
- PROPOSED WATERCOURSE DISTURBANCE
- PROPOSED WETLAND DISTURBANCE (PERMANENT)
- PROPOSED WETLAND DISTURBANCE (TEMPORARY)

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Town of Thomaston

Old Northfield Rd

Unnamed Tributary Stabilization and Roadway Drainage Improvements

Thomaston, CT

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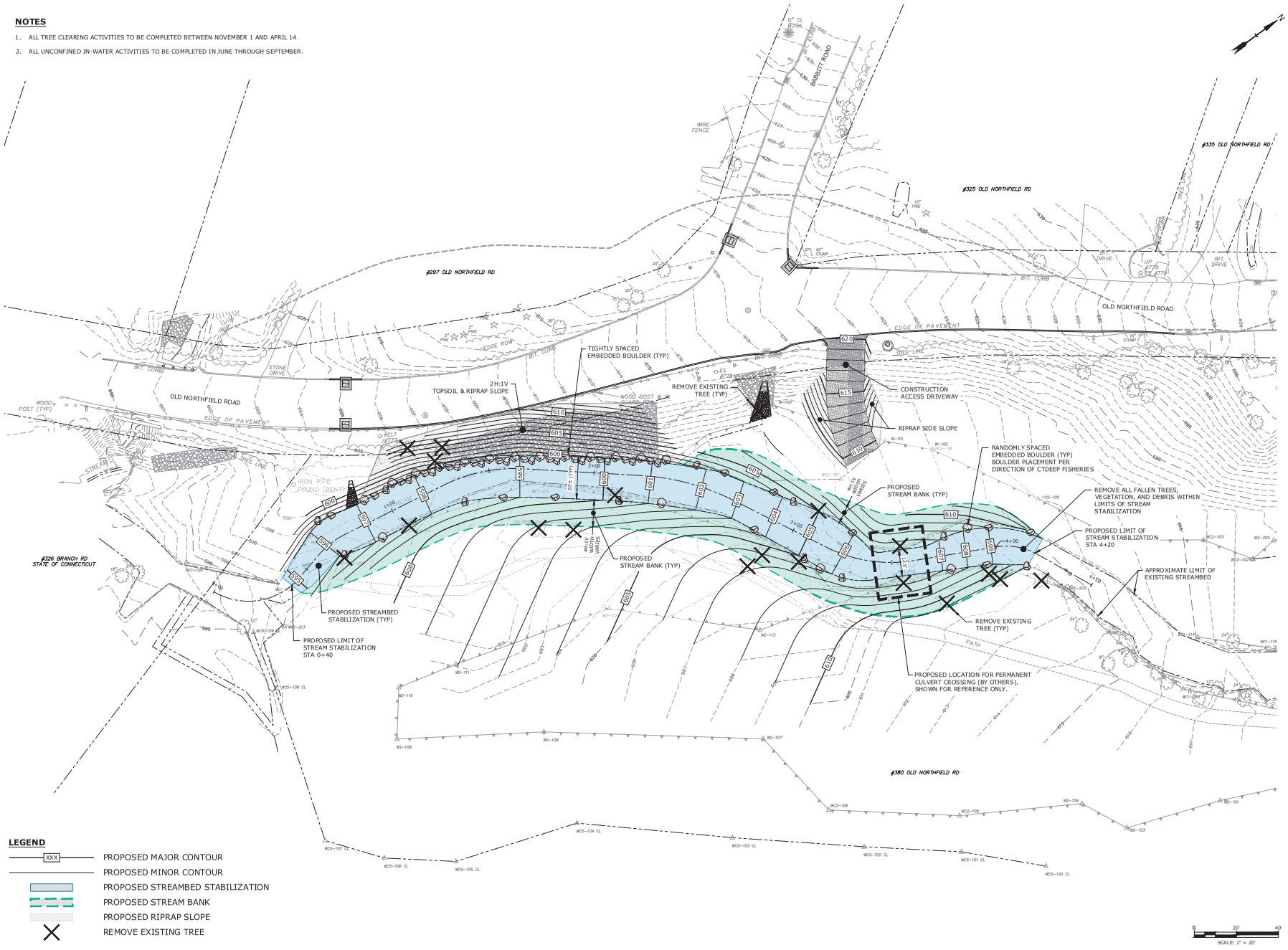
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DATE:	10/15/2025
FILE:	T0233-41-C-010-WETL.dwg
DRAWN BY:	NG/TAS
CHECKED BY:	JAC
APPROVED BY:	CJC

WATERCOURSE & WETLAND DISTURBANCE PLAN

SCALE: 1" = 20'

C-010

Last Saved: 8/22/2025
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Old Northfield Rd

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Thomaston, CT

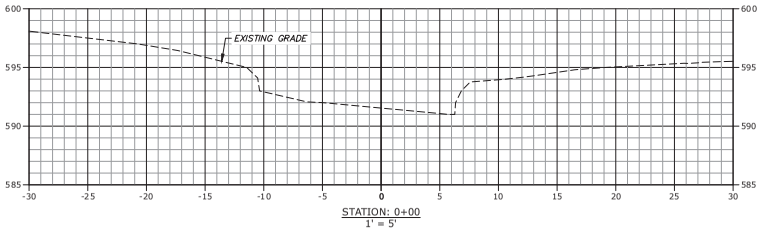
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DATE:		10/15/2025
FILE:		T0233-41-C-100-STRM.dwg
DRAWN BY:		NG/TAS
CHECKED BY:		JAC
APPROVED BY:		CJC

STREAM STABILIZATION PLAN

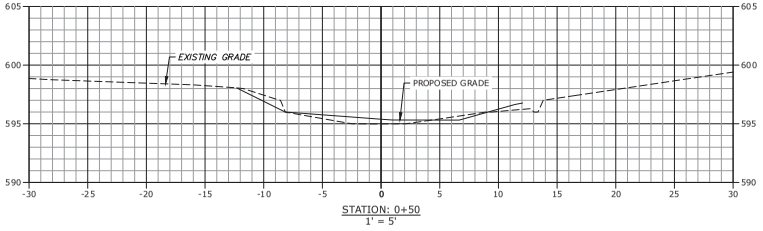
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C-101

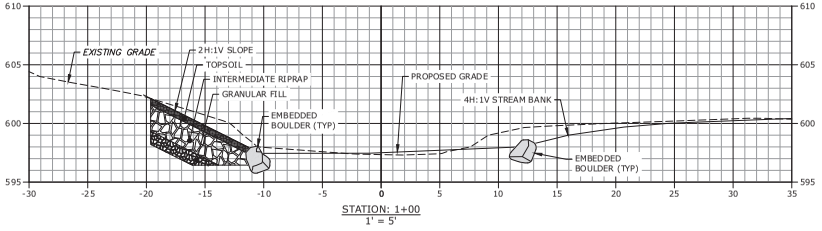
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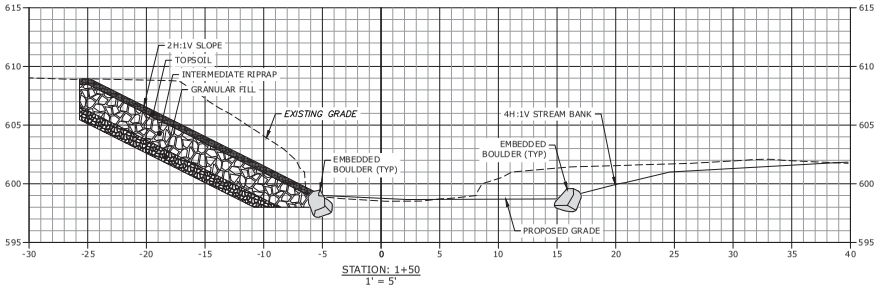
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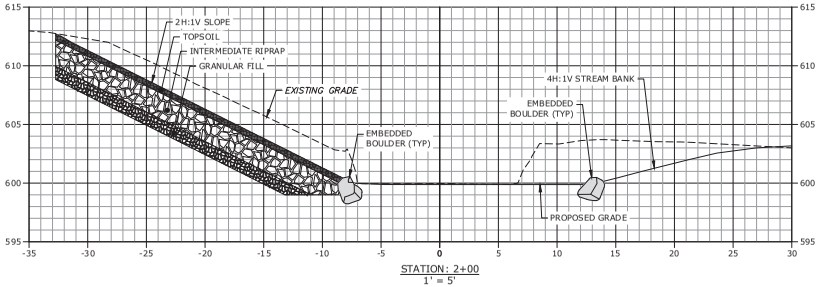
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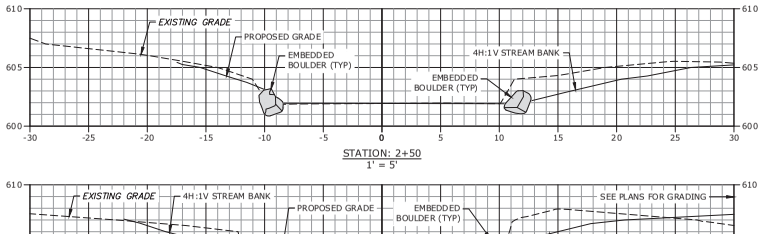
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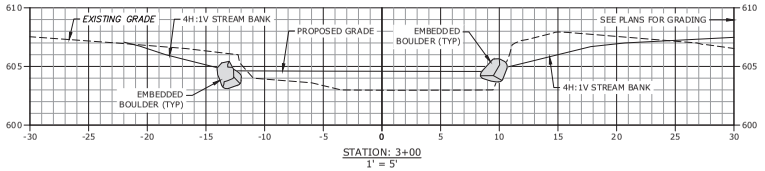
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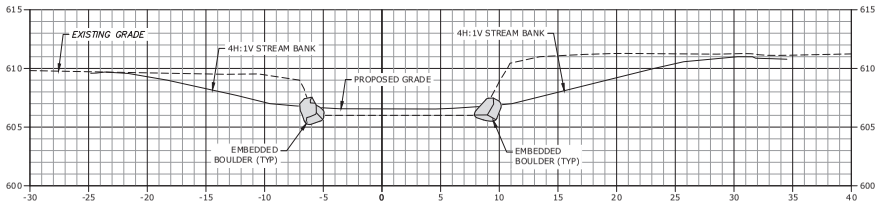
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1" = 5'



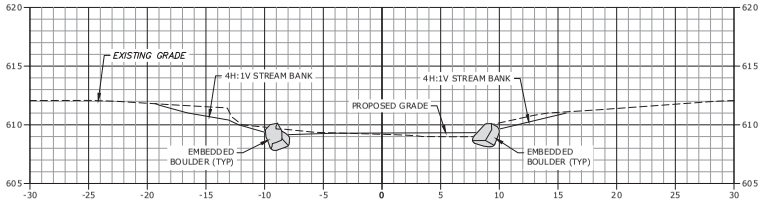
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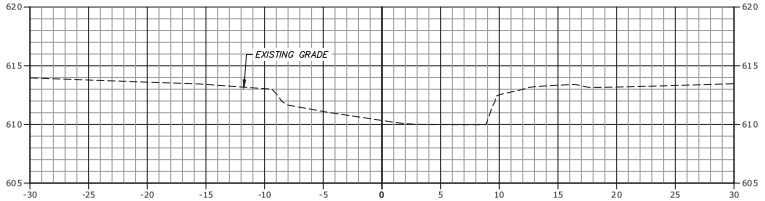
STATION: 3+00
1" = 5'



STATION: 3+50
1" = 5'



STATION: 4+00
1" = 5'



STATION: 4+50
1" = 5'

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Town of Thomaston

Old Northfield Rd

Unnamed Tributary Stabilization and Roadway Drainage Improvements

Thomaston, CT

MARK	DATE	DESCRIPTION

PROJECT NO:	T0233-041
DATE:	10/15/2025
FILE:	T0233-41-C-102-XSEC.dwg
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STREAM CROSS SECTIONS
0+00 TO 4+50

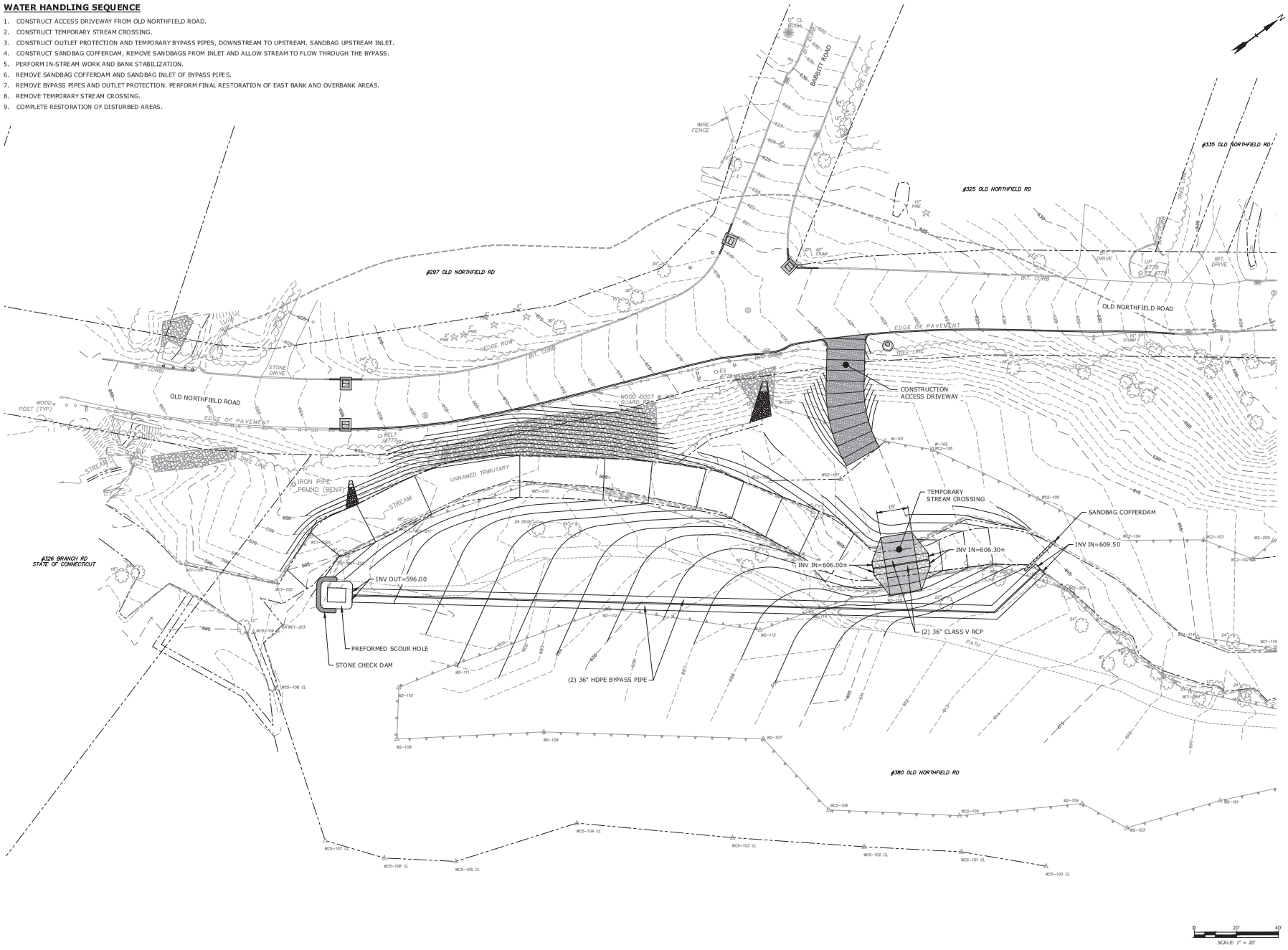
SCALE: AS SHOWN

C-102

Last Saved: 8/22/2025
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WATER HANDLING SEQUENCE

1. CONSTRUCT ACCESS DRIVEWAY FROM OLD NORTHFIELD ROAD.
2. CONSTRUCT TEMPORARY STREAM CROSSING.
3. CONSTRUCT OUTLET PROTECTION AND TEMPORARY BYPASS PIPES, DOWNSTREAM TO UPSTREAM. SANDBAG UPSTREAM INLET.
4. CONSTRUCT SANDBAG COFFERDAM, REMOVE SANDBAGS FROM INLET AND ALLOW STREAM TO FLOW THROUGH THE BYPASS.
5. PERFORM IN-STREAM WORK AND BANK STABILIZATION.
6. REMOVE SANDBAG COFFERDAM AND SANDBAG INLET OF BYPASS PIPES.
7. REMOVE BYPASS PIPES AND OUTLET PROTECTION. PERFORM FINAL RESTORATION OF EAST BANK AND OVERBANK AREAS.
8. REMOVE TEMPORARY STREAM CROSSING.
9. COMPLETE RESTORATION OF DISTURBED AREAS.



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Unnamed Tributary Stabilization and Roadway Drainage Improvements

Thomaston, CT

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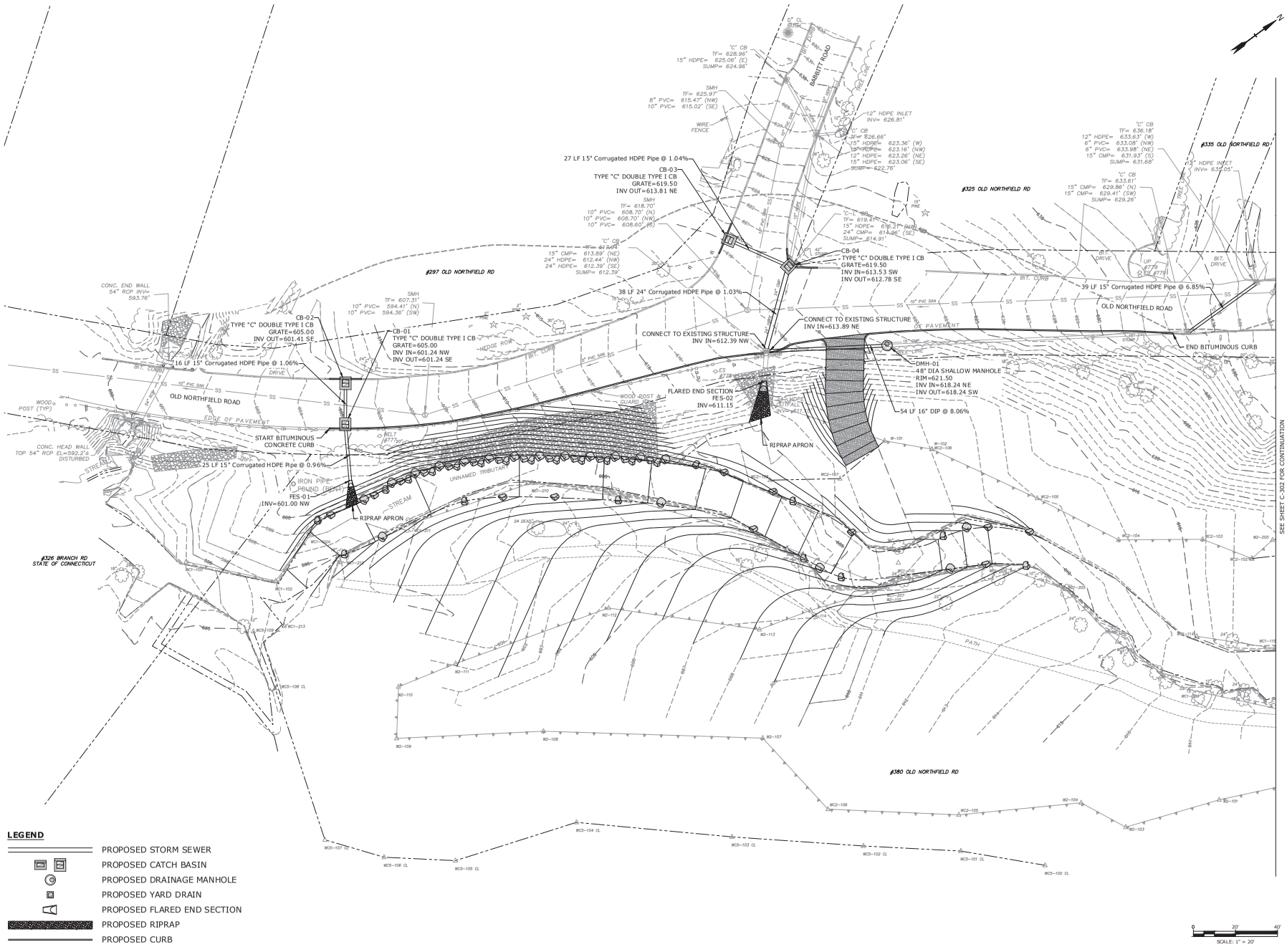
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DATE:	10/15/2025
FILE:	T0233-41-C-200-WATR.dwg
DRAWN BY:	NG/TAS
CHECKED BY:	JAC
APPROVED BY:	CJC

WATER HANDLING PLAN

SCALE: 1" = 20'

C-201

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LEGEND

- PROPOSED STORM SEWER
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE MANHOLE
- PROPOSED YARD DRAIN
- PROPOSED FLARED END SECTION
- PROPOSED RIPRAP
- PROPOSED CURB

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Town of Thomaston

Old Northfield Rd

Unnamed Tributary Stabilization and Roadway Drainage Improvements

Thomaston, CT

MARK	DATE	DESCRIPTION

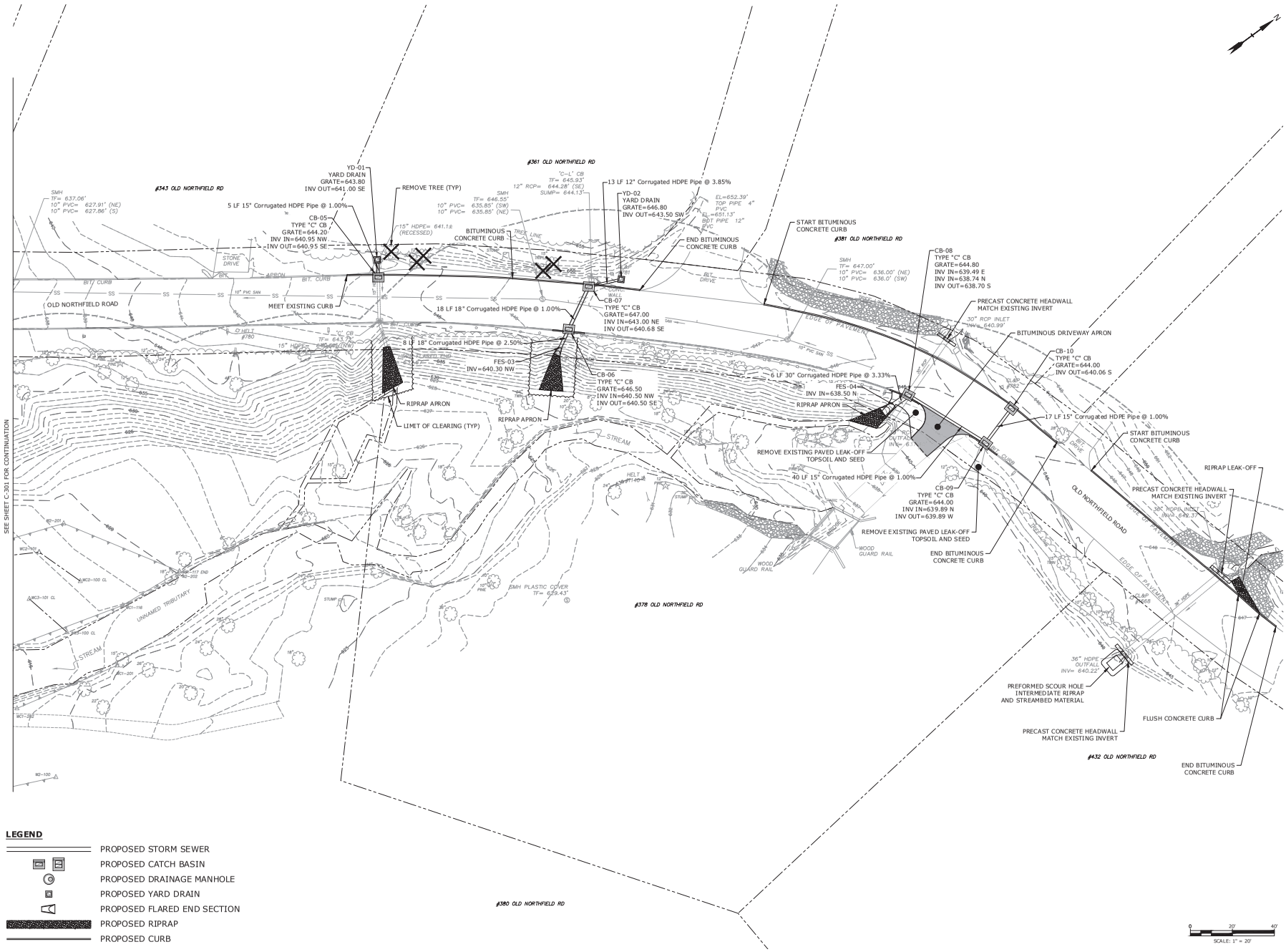
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DATE:	10/15/2025
FILE:	T0233-41-C-300-ROAD.dwg
DRAWN BY:	NG/TAS
CHECKED BY:	JAC
APPROVED BY:	CJC

ROADWAY DRAINAGE PLAN - 1

SCALE: 1" = 20'

C-301

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LEGEND

- PROPOSED STORM SEWER
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE MANHOLE
- PROPOSED YARD DRAIN
- PROPOSED FLARED END SECTION
- PROPOSED RIPRAP
- PROPOSED CURB

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Unnamed Tributary Stabilization and Roadway Drainage Improvements

Thomaston, CT

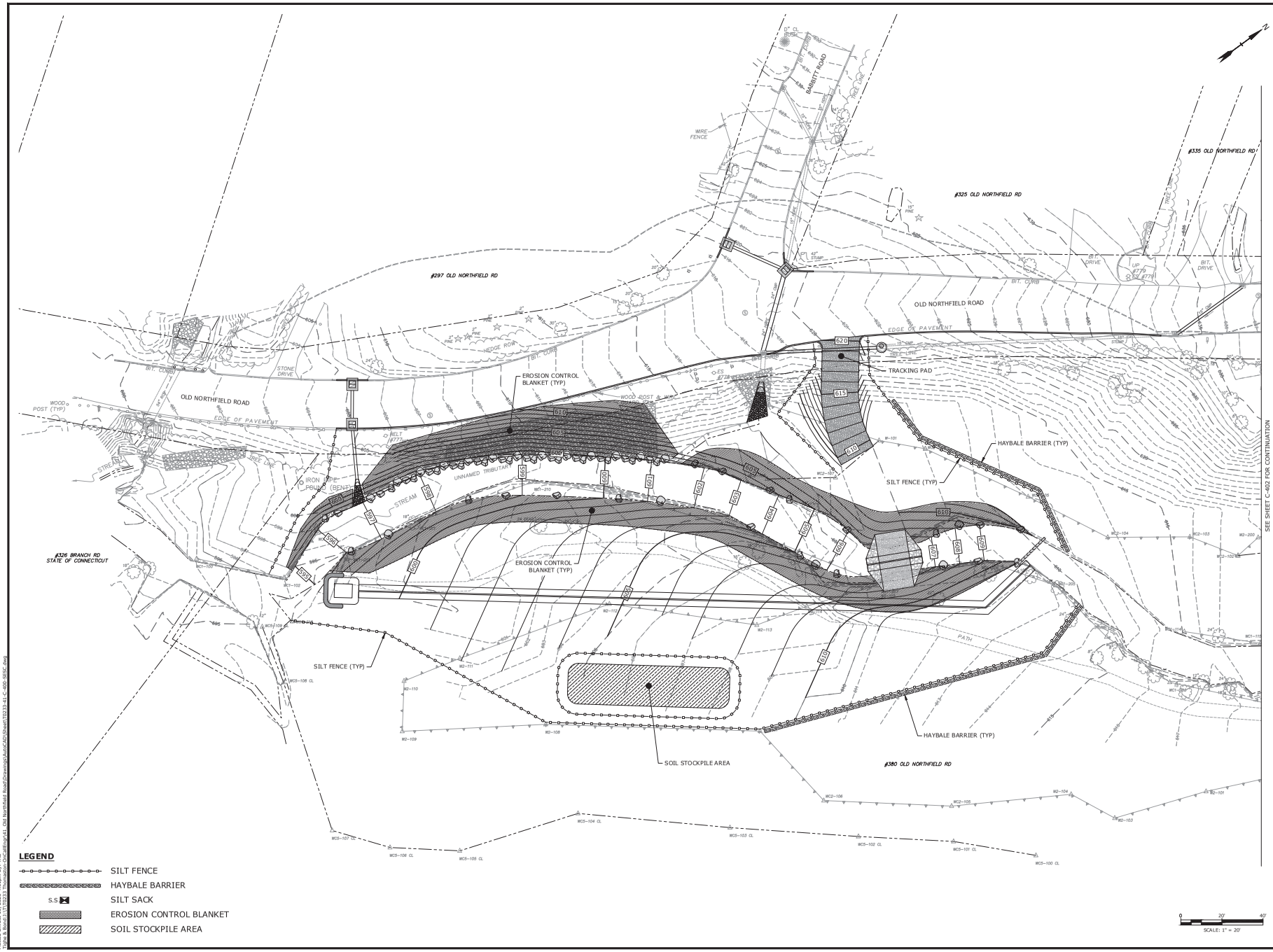
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PROJECT NO:		T0233-041
DATE:		10/15/2025
FILE:		T0233-41-C-300-ROAD.dwg
DRAWN BY:		NG/TAS
CHECKED BY:		JAC
APPROVED BY:		CJC

ROADWAY DRAINAGE PLAN - 2

SCALE: 1" = 20'

C-302

Last Saved: 8/22/2025
Plotted On: Oct 15, 2025 4:51pm By: TAS
File K:\Civil\T0233\Thomaston Golf\Dwgs\Arbc\ACAD\Sheet\T0233-41-C-300-ROAD.dwg



Tighe&Bond
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Shelton, CT 06484
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Town of Thomaston

Old Northfield Rd

Unnamed Tributary Stabilization and Roadway Drainage Improvements

Thomaston, CT

MARK	DATE	DESCRIPTION

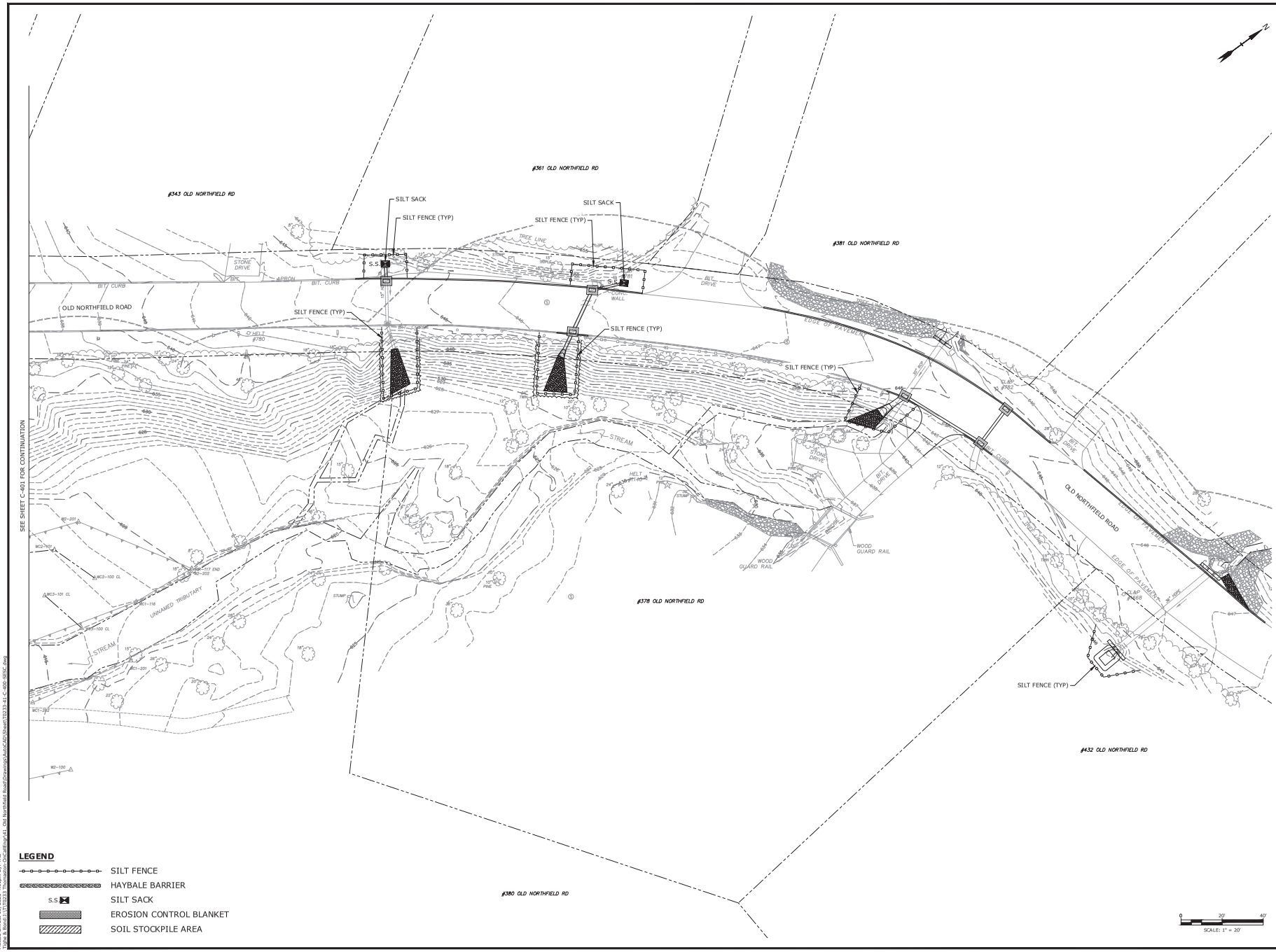
PROJECT NO:	T0233-041
DATE:	10/15/2025
FILE:	T0233-41-C-400-SESC.dwg
DRAWN BY:	NG/TAS
CHECKED BY:	JAC
APPROVED BY:	CJC

SOIL EROSION AND SEDIMENT CONTROL PLAN - 1

SCALE: 1" = 20'

C-401

Last Saved: 8/22/2025
Plotted On: Oct 15, 2025 - 4:51pm By: TAS
File Name: I:\T0233\Design\Civil\Engr\41 Old Northfield Road\Drawings\AutoCAD\Sheet\T0233-41-C-400-SESC.dwg



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APPROVED BY:	CJC

SOIL EROSION AND SEDIMENT CONTROL PLAN - 2

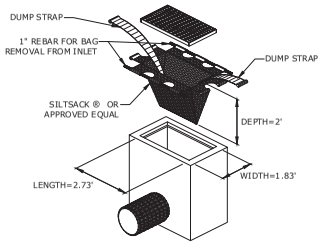
SCALE: 1" = 20'

C-402

Last Saved: 8/22/2025
Plotted On: Oct 15, 2025 4:51pm By: TAS
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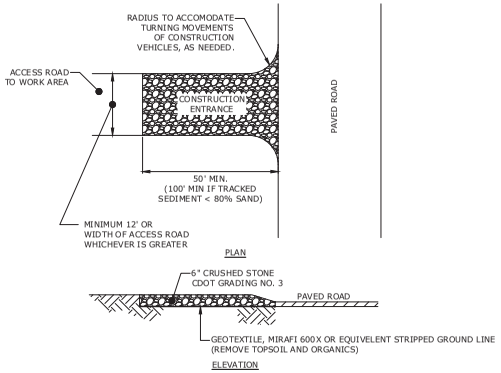
SOIL EROSION AND SEDIMENT CONTROL NOTES

1. ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE "2024 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", AND ALL AMENDMENTS AND ADDENDA THERETO AS PUBLISHED BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION.
2. LAND DISTURBANCE SHALL BE KEPT TO THE MINIMUM NECESSARY FOR CONSTRUCTION OPERATIONS.
3. INSTALL ALL EROSION CONTROL MEASURES AS SHOWN ON THE PLAN AND ELSEWHERE AS ORDERED BY THE ENGINEER OR THE TOWN.
4. PROTECT ALL CATCH BASINS WITH A SILT SACKS, HAYBALE RING, SILT FENCE OR BLOCK AND STONE INLET PROTECTION THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED AS NOTED ON PLANS.
5. WHENEVER POSSIBLE, INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO CONSTRUCTION.
6. INSTALL ADDITIONAL CONTROL MEASURES DURING THE CONSTRUCTION PERIOD AS ORDERED BY THE ENGINEER.
7. MAINTAIN ALL SEDIMENTATION AND EROSION CONTROL MEASURES IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
8. SEDIMENT REMOVED SHALL BE DISPOSED OF OFF-SITE IN A MANNER AS REQUIRED BY THE ENGINEER.
9. THE CONSTRUCTION CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF ALL CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD.
10. PROTECT ALL DISTURBED AREAS EXPOSED FOR MORE THAN 7 DAYS WITH A TEMPORARY VEGETATIVE COVER. SEED THESE AREAS WITH PERENNIAL RYEGRASS AT THE RATE OF 40 LBS. PER ACRE (1 LB. PER 1,000 SQ. FT). APPLY SOIL AMENDMENTS AND MULCH AS REQUIRED TO ESTABLISH A UNIFORM STAND OF VEGETATION OVER ALL DISTURBED AREAS.
11. THE CONSTRUCTION CONTRACTOR SHALL UTILIZE APPROVED METHODS/MATERIALS FOR PREVENTING THE BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES ONTO ADJACENT PROPERTIES AND SITE AREAS.
12. THE CONSTRUCTION CONTRACTOR SHALL MAINTAIN A SUPPLY OF SILT FENCE/HAYBALES AND ANTI-TRACKING CRUSHED STONE ON SITE FOR EMERGENCY REPAIRS.
13. THE CONTRACTOR SHALL INSPECT WEEKLY AT A MINIMUM, ALL DRAINAGE STRUCTURES AND CLEAN THEM AS NEEDED TO PREVENT THE BUILD-UP OF SILT.
14. THE CONSTRUCTION CONTRACTOR SHALL CAREFULLY COORDINATE THE PLACEMENT OF EROSION CONTROL MEASURES WITH THE PHASING OF CONSTRUCTION.
15. KEEP ALL PAVED ROADWAYS CLEAN. SWEEP BEFORE FORECASTED STORMS.
16. TREAT ALL UNPAVED SURFACE WITH 4" MINIMUM OF TOPSOIL PRIOR TO FINAL STABILIZATION.
17. INSTALL HAYBALE BARRIERS AND SILT FENCING ALONG THE TOE OF CRITICAL CUT AND FILL SLOPES.
18. THE CONTRACTOR SHALL NOTIFY THE TOWN ENVIRONMENTAL OFFICIAL PRIOR TO THE INSTALLATION OF EROSION CONTROLS, CUTTING OF TREES, OR ANY EXCAVATION.
19. COVER ALL TRUCKS CONTAINING MATERIALS BEFORE LEAVING THE SITE.
20. CHECK ALL SEDIMENTATION AND EROSION CONTROLS WEEKLY AND/OR AFTER EACH RAINFALL EVENT. MAKE NECESSARY REPAIRS IMMEDIATELY.
21. INSPECT AND REPAIR EROSION AND SEDIMENT CONTROLS PRIOR TO FORECASTED RAIN EVENTS.
22. REMOVE EROSION CONTROLS WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED AND THE TOWN HAS PROVIDED AUTHORIZATION. DISTURBED AREAS SHALL BE SEEDED AND MULCHED.

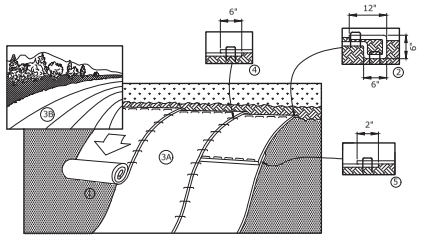


SILTSACK MANUFACTURED BY:
ACF ENFIRONMENTAL
2831 CARDWELL ROAD
RICHMOND, VIRGINIA 23237

SILTSACK®
NO SCALE

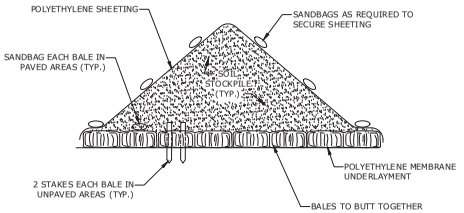


TRACKING PAD
NO SCALE

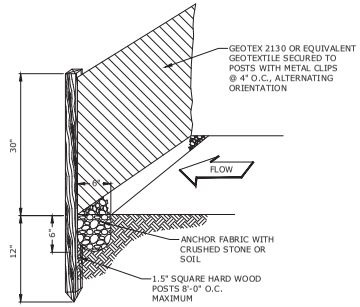


1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE, 36" OVER THE GRADE BREAK, BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UPSLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES SPACED 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS DOWN THE SLOPE. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SOIL SURFACE BY PLACING STAPLES IN APPROPRIATE LOCATIONS AS SHOWN ON THE STAPLE PATTERN GUIDE.
4. STAPLE LENGTHS SHALL BE A MINIMUM OF 8 INCHES.
5. USE TYPE "D" BLANKET FROM CTDOT APPROVED PRODUCTS LIST.

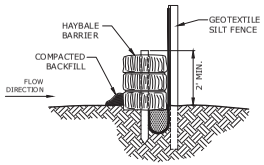
EROSION CONTROL BLANKET FOR SLOPE PROTECTION
NO SCALE



TEMPORARY CONTROLLED STOCKPILE AREA
NO SCALE

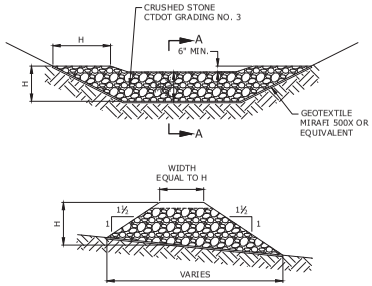


SILT FENCE
NO SCALE



BACKFILL AND COMPACT THE EXCAVATED SOIL AS SHOWN ON THE UPHILL SIDE OF THE BARRIER TO PREVENT PIPING.

SILT FENCE AND HAYBALE COMBINED BARRIER
NO SCALE



SECTION A-A

STONE CHECK DAM
NO SCALE

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Town of Thomaston

Old Northfield Rd

Unnamed Tributary Stabilization and Roadway Drainage Improvements

Thomaston, CT

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DRAWN BY:		NG/TAS
CHECKED BY:		JAC
APPROVED BY:		CJC

SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

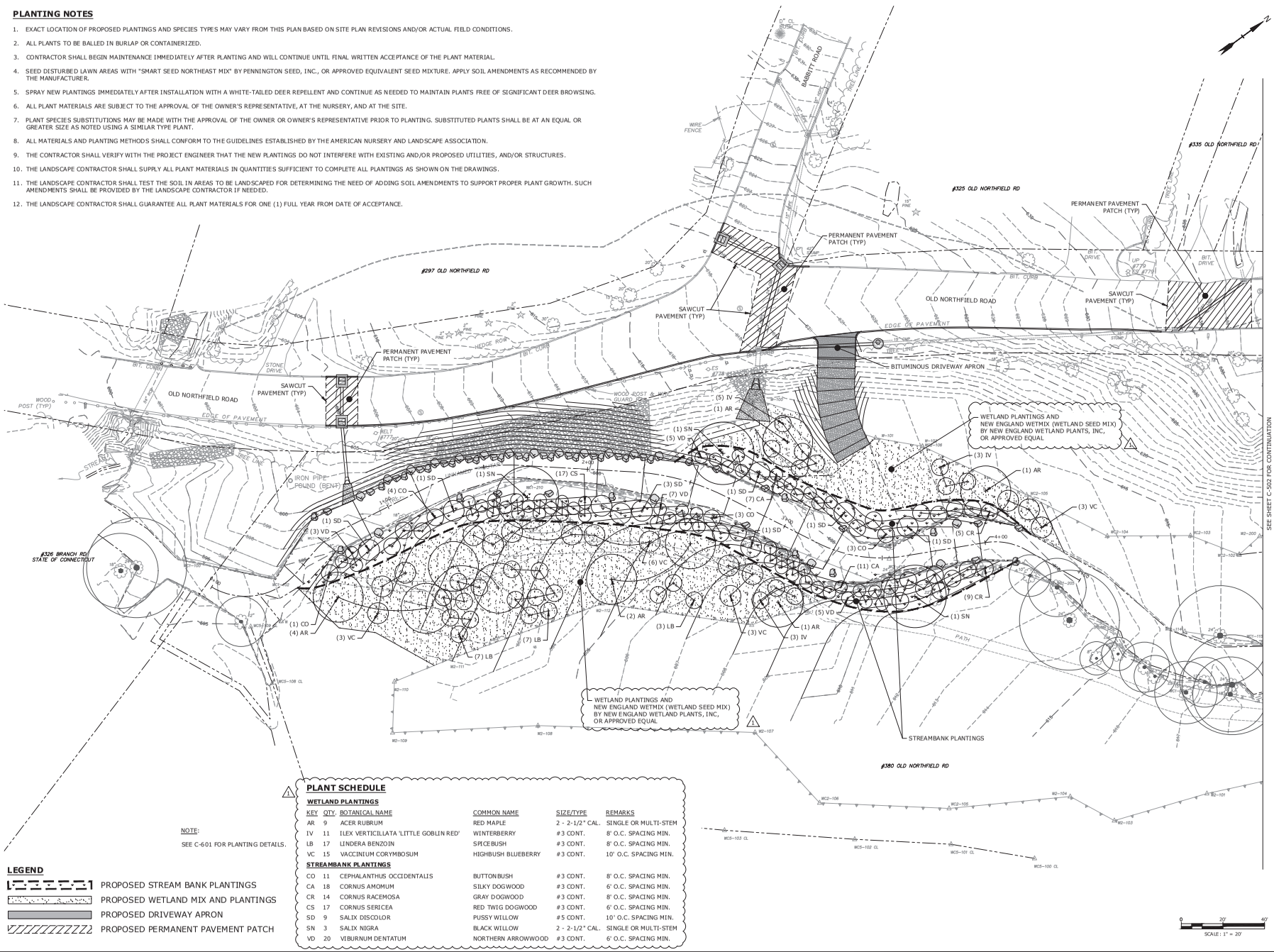
SCALE: AS SHOWN

C-403

Last Saved: 8/22/2025
Plotted On: Oct 15, 2025 4:51pm By: TAS
File: K:\Esri\1170123\Drawings\Autocad\Sheet\T0233-41-C-400-SESC.dwg

PLANTING NOTES

1. EXACT LOCATION OF PROPOSED PLANTINGS AND SPECIES TYPES MAY VARY FROM THIS PLAN BASED ON SITE PLAN REVISIONS AND/OR ACTUAL FIELD CONDITIONS.
2. ALL PLANTS TO BE BALLED IN BURLAP OR CONTAINERIZED.
3. CONTRACTOR SHALL BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING AND WILL CONTINUE UNTIL FINAL WRITTEN ACCEPTANCE OF THE PLANT MATERIAL.
4. SEED DISTURBED LAWN AREAS WITH "SMART SEED NORTHEAST MIX" BY PENNINGTON SEED, INC., OR APPROVED EQUIVALENT SEED MIXTURE. APPLY SOIL AMENDMENTS AS RECOMMENDED BY THE MANUFACTURER.
5. SPRAY NEW PLANTINGS IMMEDIATELY AFTER INSTALLATION WITH A WHITE-TAILED DEER REPELLENT AND CONTINUE AS NEEDED TO MAINTAIN PLANTS FREE OF SIGNIFICANT DEER BROWSING.
6. ALL PLANT MATERIALS ARE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE, AT THE NURSERY, AND AT THE SITE.
7. PLANT SPECIES SUBSTITUTIONS MAY BE MADE WITH THE APPROVAL OF THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO PLANTING. SUBSTITUTED PLANTS SHALL BE AT AN EQUAL OR GREATER SIZE AS NOTED USING A SIMILAR TYPE PLANT.
8. ALL MATERIALS AND PLANTING METHODS SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
9. THE CONTRACTOR SHALL VERIFY WITH THE PROJECT ENGINEER THAT THE NEW PLANTINGS DO NOT INTERFERE WITH EXISTING AND/OR PROPOSED UTILITIES, AND/OR STRUCTURES.
10. THE LANDSCAPE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE ALL PLANTINGS AS SHOWN ON THE DRAWINGS.
11. THE LANDSCAPE CONTRACTOR SHALL TEST THE SOIL IN AREAS TO BE LANDSCAPED FOR DETERMINING THE NEED OF ADDING SOIL AMENDMENTS TO SUPPORT PROPER PLANT GROWTH. SUCH AMENDMENTS SHALL BE PROVIDED BY THE LANDSCAPE CONTRACTOR IF NEEDED.
12. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR ONE (1) FULL YEAR FROM DATE OF ACCEPTANCE.



NOTE:

SEE C-601 FOR PLANTING DETAILS.

PLANT SCHEDULE

WETLAND PLANTINGS

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE/TYPE	REMARKS
AR	9	ACER RUBRUM	RED MAPLE	2 - 2-1/2" CAL.	SINGLE OR MULTI-STEM
IV	11	ILEX VERTICILLATA 'LITTLE GOBLIN RED'	WINTERBERRY	#3 CONT.	8' O.C. SPACING MIN.
LB	17	LINDERA BENZOIN	SPICEBUSH	#3 CONT.	8' O.C. SPACING MIN.
VC	15	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	#3 CONT.	10' O.C. SPACING MIN.

STREAMBANK PLANTINGS

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE/TYPE	REMARKS
CO	11	CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH	#3 CONT.	8' O.C. SPACING MIN.
CA	18	CORNUS AMOMUM	SILKY DOGWOOD	#3 CONT.	6' O.C. SPACING MIN.
CR	14	CORNUS RACEMOSA	GRAY DOGWOOD	#3 CONT.	8' O.C. SPACING MIN.
CS	17	CORNUS SERICEA	RED TWIG DOGWOOD	#3 CONT.	6' O.C. SPACING MIN.
SD	9	SALIX DISCOLOR	PUSSY WILLOW	#5 CONT.	10' O.C. SPACING MIN.
SN	3	SALIX NIGRA	BLACK WILLOW	2 - 2-1/2" CAL.	SINGLE OR MULTI-STEM
VD	20	VIBURNUM DENTATUM	NORTHERN ARROWWOOD	#3 CONT.	6' O.C. SPACING MIN.

LEGEND

- PROPOSED STREAM BANK PLANTINGS
- PROPOSED WETLAND MIX AND PLANTINGS
- PROPOSED DRIVEWAY APRON
- PROPOSED PERMANENT PAVEMENT PATCH

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Town of Thomaston

Old Northfield Rd

Unnamed Tributary Stabilization and Roadway Drainage Improvements

Thomaston, CT

MARK	DATE	DESCRIPTION
1	05/13/2026	CTDEEP COMMENTS

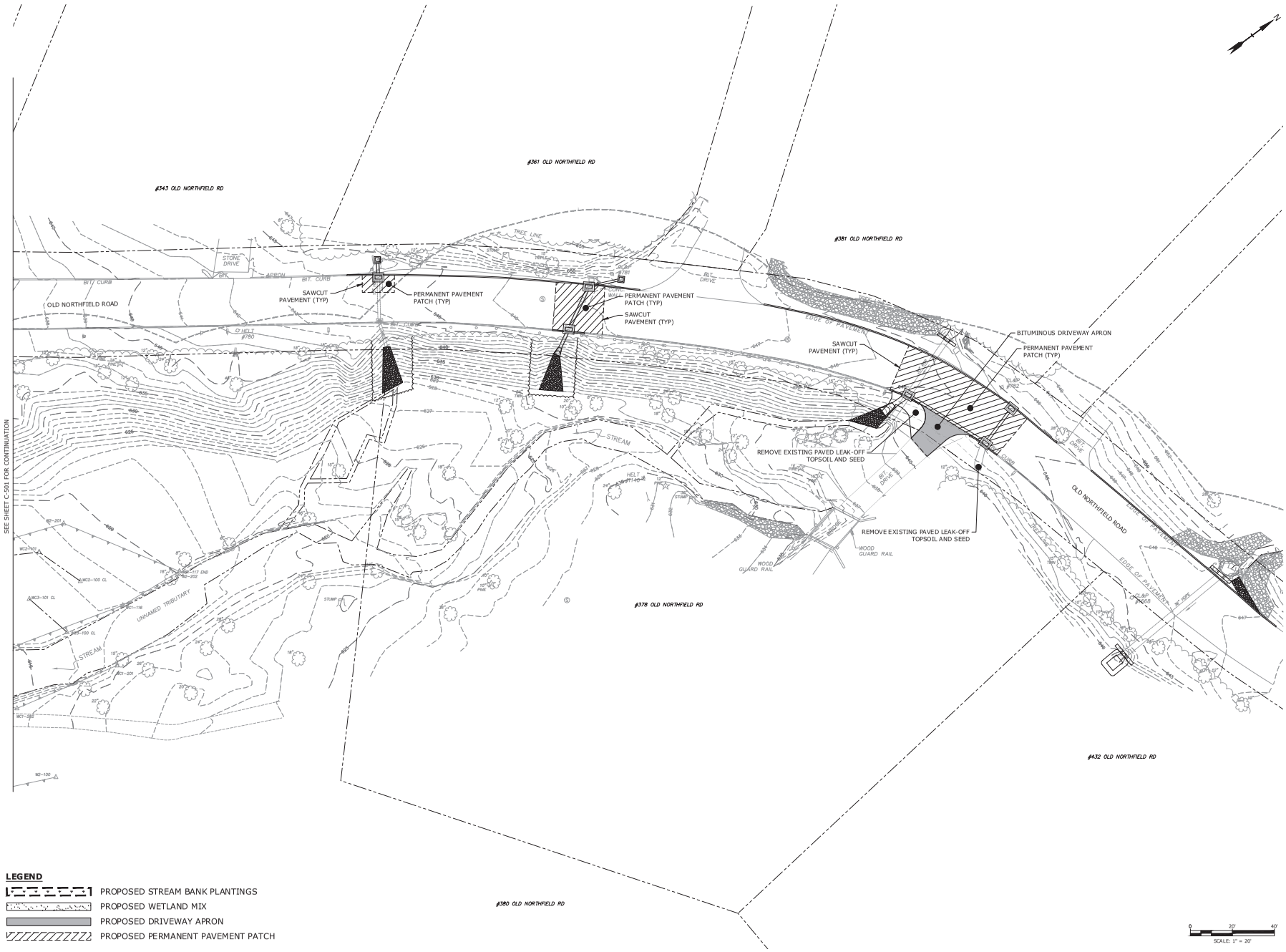
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DATE:	10/15/2025
FILE:	T0233-41-C-500-REST.dwg
DRAWN BY:	NG/BL
CHECKED BY:	TAS
APPROVED BY:	CJC

RESTORATION PLAN - 1

SCALE: 1" = 20'

C-501

Last Saved: 5/28/2026
Plotted On: May 28, 2026 7:47pm By: BLadley
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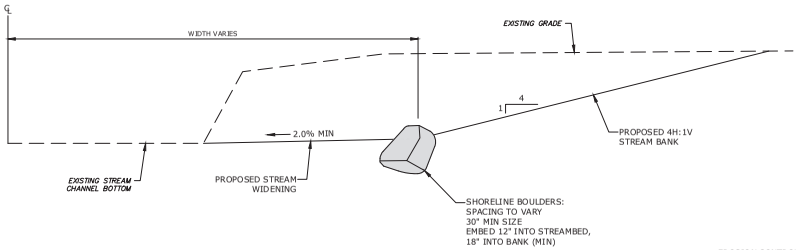
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DRAWN BY:		NG/TAS
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APPROVED BY:		CJC

RESTORATION PLAN - 2

SCALE: 1" = 20'

C-502

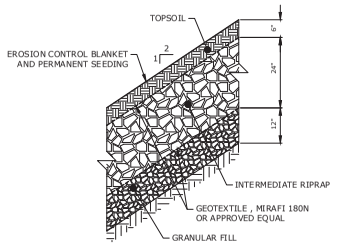
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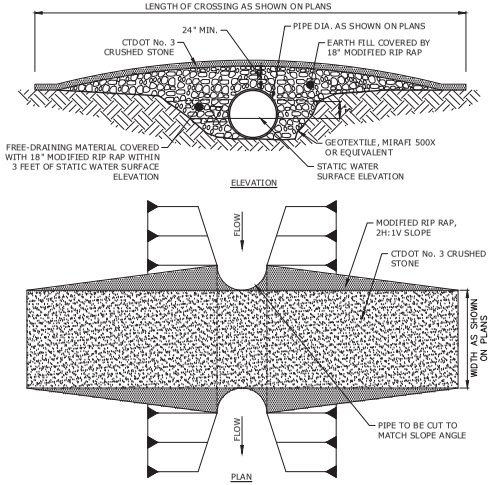
NOTES:

1. REUSE EXISTING ON-SITE SHORELINE BOULDERS WHERE FEASIBLE.
2. PLACEMENT OF SHORELINE BOULDERS PER GUIDANCE OF CTDEEP FISHERIES.

TYPICAL STREAM WIDENING SECTION
NO SCALE



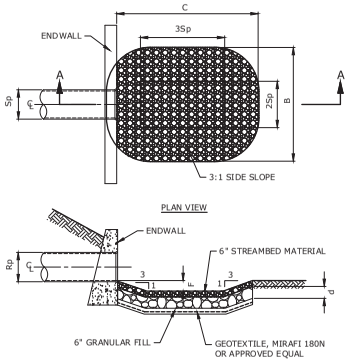
TOPSOIL & RIPRAP SLOPE
NO SCALE



NOTES:

1. CONTRACTOR SHALL PROVIDE DETAILED DRAWINGS FOR ALL TEMPORARY CROSSINGS PRIOR TO CONSTRUCTION.
2. EARTH FILL SHALL BE FREE OF SOD, ORGANIC MATTER, AND FROZEN MATERIALS. PLACE FILL IN LAYERS NOT EXCEEDING 12 INCHES BEFORE COMPACTION.

TEMPORARY STREAM CROSSING
NO SCALE



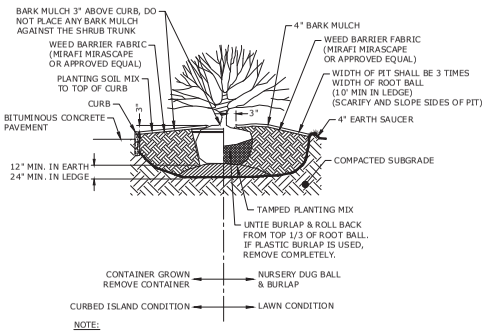
Sp= { MAX INSIDE PIPE SPAN (NON-CIRCULAR SECTIONS) / INSIDE PIPE DIAMETER (CIRCULAR SECTIONS)

Rp= { MAX INSIDE PIPE RISE (NON-CIRCULAR SECTIONS) / INSIDE PIPE DIAMETER (CIRCULAR SECTIONS)

d= { 12 IN MODIFIED RIPRAP / 18 IN INTERMEDIATE RIPRAP / 36 IN STANDARD RIPRAP

TYPE 1 F = 0.5 Rp
TYPE 2 F = Rp
C = 3Sp + 6F
B = 2Sp + 6F

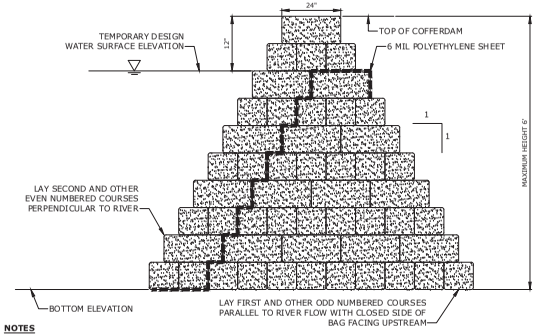
PREFORMED SCOUR HOLE WITH INTERMEDIATE RIPRAP
NO SCALE



NOTE:

1. PLANT AT SAME DEPTH AS PREVIOUSLY PLANTED, OR WITHIN 2" ABOVE.

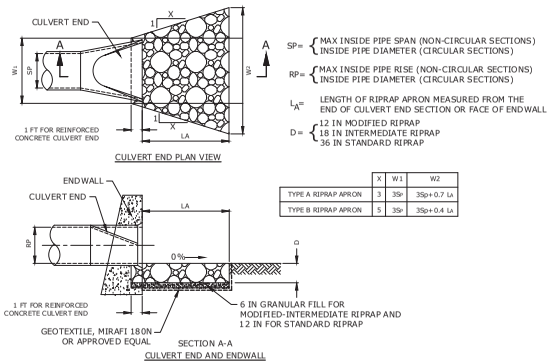
SHRUB PLANTING
NO SCALE



NOTES

1. OVERLAP BAGS SUCH THAT FILLED PORTION OF SECOND BAG SITS OVER THE EMPTY PORTION OF THE FIRST.
2. OVERLAP POLYETHYLENE SHEETS MINIMUM 2 FEET

SANDBAG COFFERDAM
NO SCALE



SP= { MAX INSIDE PIPE SPAN (NON-CIRCULAR SECTIONS) / INSIDE PIPE DIAMETER (CIRCULAR SECTIONS)

RP= { MAX INSIDE PIPE RISE (NON-CIRCULAR SECTIONS) / INSIDE PIPE DIAMETER (CIRCULAR SECTIONS)

L_A= LENGTH OF RIPRAP APRON MEASURED FROM THE END OF CULVERT END SECTION OR FACE OF ENDWALL

D= { 12 IN MODIFIED RIPRAP / 18 IN INTERMEDIATE RIPRAP / 36 IN STANDARD RIPRAP

	X	W1	W2
TYPE A RIPRAP APRON	3	3Sp	3Sp+0.7 LA
TYPE B RIPRAP APRON	5	3Sp	3Sp+0.4 LA

RIPRAP APRON
NO SCALE

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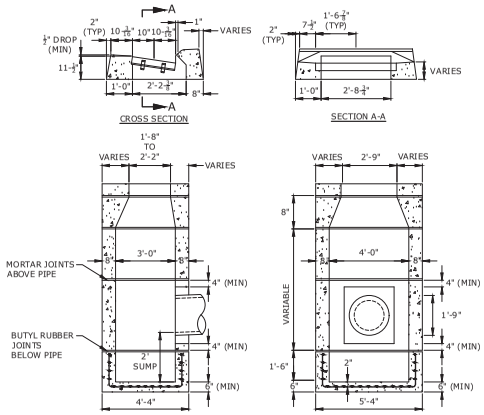
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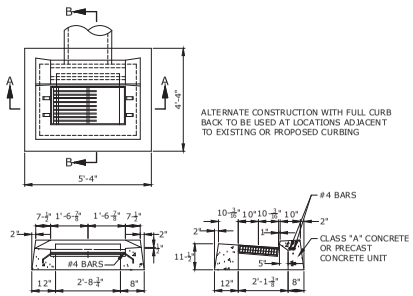
DETAILS - 1

SCALE: AS SHOWN

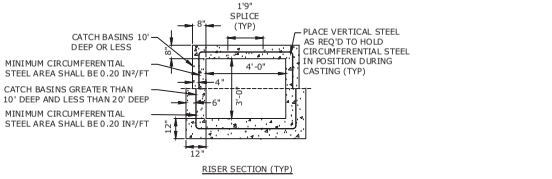
C-601

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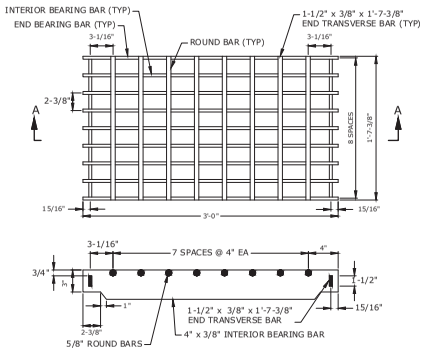




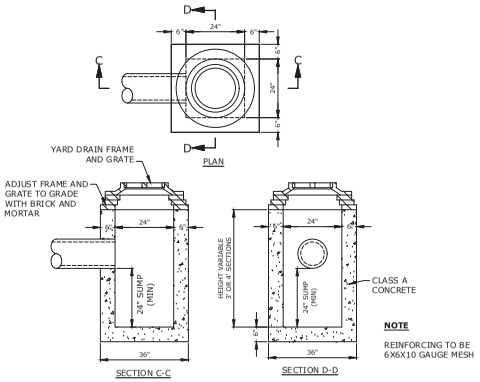
TYPE "C" CATCH BASIN TOP
NO SCALE



TYPE "C" CATCH BASIN
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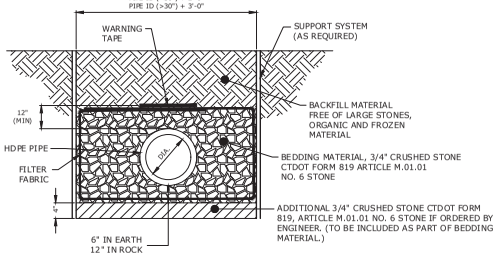


TYPE 'A' GRATE
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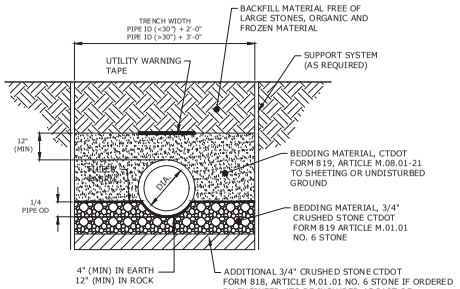


YARD DRAIN
NO SCALE

NOTE
REINFORCING TO BE 6X6X10 GAUGE MESH



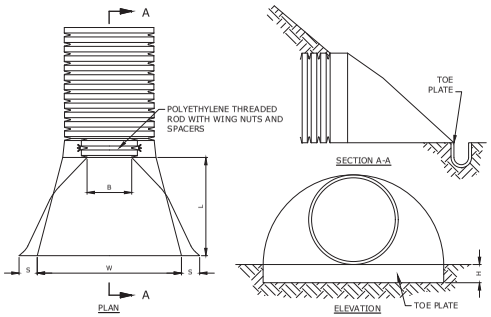
HDPE TRENCH BEDDING
NO SCALE



CIRCULAR DIP TRENCH BEDDING
NO SCALE

NOTES

1. REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60.
2. DETAILS ON THIS SHEET SHOW STANDARD REINFORCEMENT. WELDED WIRE FABRIC WITH AN AREA EQUAL TO OR GREATER THAN THE REINFORCING SHOWN MAY BE SUBSTITUTED.
3. ALL LAP SPLICES, DEVELOPMENT LENGTHS, BENDS FOR REINFORCEMENT, AND WELDED WIRE FABRIC SHALL CONFORM TO AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.
4. ALL REINFORCEMENT SHALL HAVE A MINIMUM CLEAR COVER OF 2", EXCEPT FOR BENEATH BOTTOM REINFORCEMENT IN TOP SLABS, WHERE THE MINIMUM MAY BE 1½"
5. MINIMUM CONCRETE COMPRESSIVE STRENGTH FC'=4,000PSI SHALL BE OBTAINED BEFORE SHIPPING.
6. BASES AND RISERS AT A DEPTH OF 20' AND GREATER SHALL BE DESIGNED BY THE CONTRACTOR AND WORKING DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
7. RISERS SHALL NEVER HAVE CORNER PIPE ENTRIES. WHERE THE ALIGNMENT OF THE PIPE WITH RESPECT TO THE CORNER OF THE CATCH BASIN CANNOT BE CHANGED, A ROUND STRUCTURE CONFORMING TO ASTM C478 SHALL BE USED. REINFORCING FOR THE ROUND TOP SLAB WITH A RECTANGULAR OPENING SHALL CONFORM TO DETAILS SHOWN HERE.
8. ALL PIPE OPENINGS SHALL BE CLOSED USING MATERIALS WHICH CONFORM TO STATE OF CONNECTICUT STANDARD SPECIFICATIONS SECTION M.08.02. IF THE ENGINEER DETERMINES THAT THE CLOSURE OF ANY PIPE OPENING IS UNSATISFACTORY, THE CONTRACTOR SHALL RECLOSE SAID OPENING AT NO ADDITIONAL COST TO THE STATE. KNOCKOUTS FOR PIPE OPENINGS SHALL NOT RESULT IN A REDUCED WALL THICKNESS.
9. THE LATEST STATE OF CONNECTICUT STANDARD SPECIFICATIONS AND SUPPLEMENTALS SHALL GOVERN.
10. WALL THICKNESS OF ALL CB'S OVER 10' DEEP SHALL BE INCREASED TO 12" THICK. INSIDE DIMENSION SHALL REMAIN THE SAME. (THE 12" THICKNESS SHALL START AFTER THE FIRST 10")
11. BUTYL RUBBER JOINT SEAL SHALL CONFORM TO AASHTO M-198 AND MORTAR SHALL CONFORM TO THE LATEST STATE OF CONNECTICUT STANDARD SPECIFICATIONS MATERIAL SECTION M11.04.
12. SHRINKAGE AND TEMPERATURE REINFORCEMENT SHALL BE PROVIDED IN THE TOPS OF SLABS. THE TOTAL AREA OF REINFORCEMENT PROVIDED SHALL BE AT LEAST 0.125 IN²/FT IN EACH DIRECTION. THE MAXIMUM SPACING OF THIS REINFORCEMENT SHALL NOT EXCEED 18 INCHES.



PIPE DIA.	S	B	H	L	W
15"	6.5"	10"	6.5"	25"	29"
18"	7.5"	15"	7.5"	32"	35"
24"	7.5"	18"	7.5"	36"	45"
30"	7.5"	22"	7.5"	58"	63"

NOTE
END SECTIONS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, COLUMBUS, OHIO, OR APPROVED EQUAL. END SECTIONS TO BE WELDED TO PIPE AS PER MANUFACTURER'S RECOMMENDATIONS.

HDPE END SECTION
NO SCALE

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Town of Thomaston

Old Northfield Rd

Unnamed Tributary Stabilization and Roadway Drainage Improvements

Thomaston, CT

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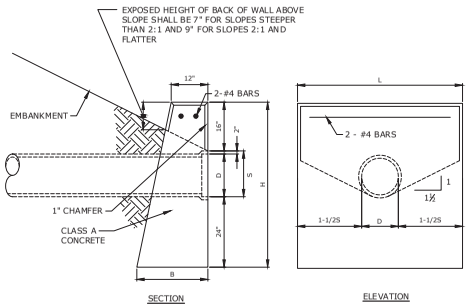
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DATE:	10/15/2025
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APPROVED BY:	CJC

DETAILS - 2

SCALE: AS SHOWN

C-602

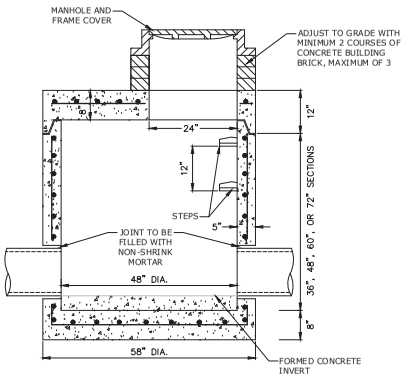
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D	B	H	L	S	BATTER
12"	1'-11¼"	4'-6"	4'-6"	1'-2"	2½"
15"	1'-11⅞"	4'-9"	5'-6"	1'-5"	2½"
18"	2'-0½"	5'-0"	6'-6"	1'-8"	2½"
24"	2'-1⅞"	5'-6"	8'-6"	2'-2"	2½"
30"	2'-3"	6'-0"	10'-6"	2'-8"	2½"
36"	2'-7½"	6'-6"	12'-6"	3'-2"	3"
42"	2'-9"	7'-0"	14'-6"	3'-8"	3"
48"	2'-10½"	7'-6"	16'-6"	4'-2"	3"

H=TOTAL HEIGHT OF HEADWALL
B=WIDTH OF BASE
D=INSIDE DIAMETER OF PIPE
S=HEIGHT OF SLOPE ABOVE PIPE INVERT AT FACE OF WALL (D÷2)
L=LENGTH OF WALL (3S+D)

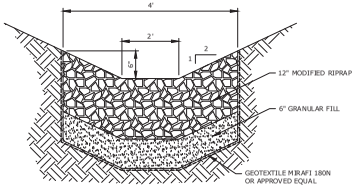
PRECAST CONCRETE HEADWALL
NO SCALE



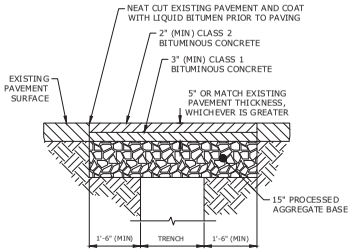
NOTES:

1. JOINT SEALANT SHALL BE PREFORMED BUTYL RUBBER MASTIC TYPE SEAL COMPLYING WITH AASHTO SPECIFICATION M198.
2. REINFORCING 0.12 IN^2/VERTICAL FOOT PER ASTM A185.
3. CONCRETE COMPRESSIVE STRENGTH: 5,000 PSI, 28 DAYS
4. MANHOLE STEP TO BE USED MEETS OSHA REGULATION 20 CFR 1910.27 AND SECTION 11 ASTM SPECIFICATION C-473.
5. METHOD OF MANUFACTURE: WET CAST.
6. BASE SECTION MONOLITHIC.
7. KNOCKOUTS FOR PIPES 4" MIN. FROM TOP AND BOTTOM OF SECTION.

48" DIA. SHALLOW MANHOLE
NO SCALE



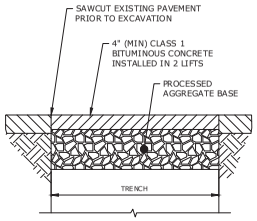
RIPRAP LEAK-OFF
NO SCALE



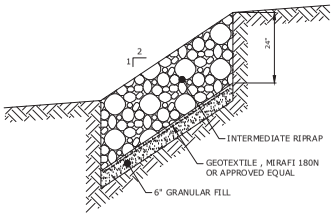
NOTES

1. ALL BITUMINOUS CONCRETE, AGGREGATE, STABILIZED COURSE, SUBBASE AND LIQUID BITUMEN SHALL CONFORM TO THE MATERIALS EQUIPMENT AND CONSTRUCTION REQUIREMENTS AS PER STATE SPECIFICATIONS.
2. MAINTAIN A MINIMUM 15' WIDE TRAVEL WAY AT ROAD CROSSINGS AT ALL TIMES DURING CONSTRUCTION. THE USE OF STEEL PLATES IS PERMITTED.

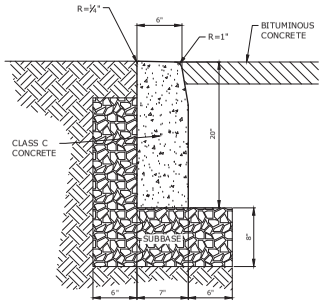
PERMANENT PAVEMENT REPAIR
NO SCALE



TEMPORARY PAVEMENT DETAIL
NO SCALE



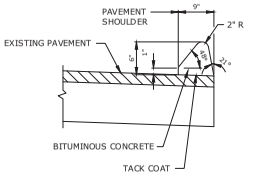
ACCESS DRIVEWAY RIPRAP SLOPE
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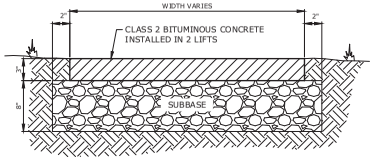
NOTES:

1. CONSTRUCT CURBING IN SECTIONS NOT TO EXCEED 10 FEET IN LENGTH. NO SECTION SHALL BE LESS THAN 6 FEET IN LENGTH.

FLUSH CONCRETE CURB
NO SCALE



BITUMINOUS CONCRETE LIP CURBING
NO SCALE



BITUMINOUS CONCRETE DRIVEWAY
NO SCALE

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Town of Thomaston

Old Northfield Rd

Unnamed Tributary Stabilization and Roadway Drainage Improvements

Thomaston, CT

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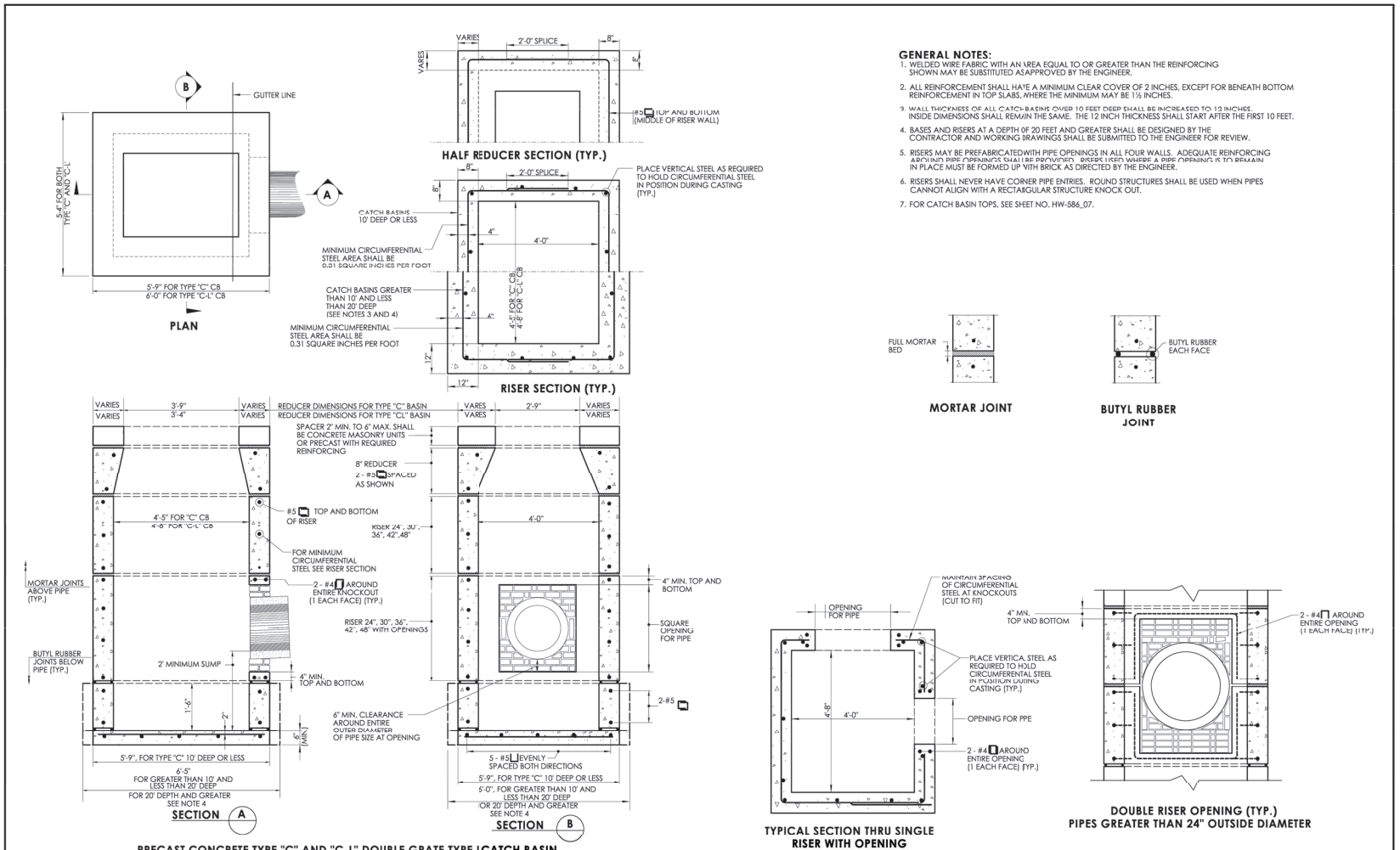
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CHECKED BY:	JAC
APPROVED BY:	CJC

DETAILS - 3

SCALE: AS SHOWN

C-603

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PLOTTED DATE: 8/13/2024

DOUBLE TYPE I CATCH BASIN
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Town of Thomaston

Old Northfield Rd

Unnamed Tributary Stabilization and Roadway Drainage Improvements

Thomaston, CT

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APPROVED BY:	CJC

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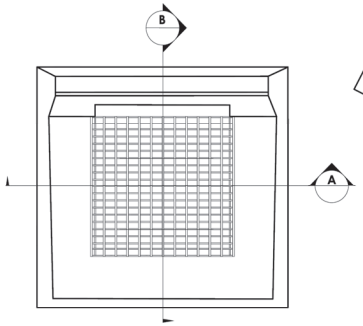
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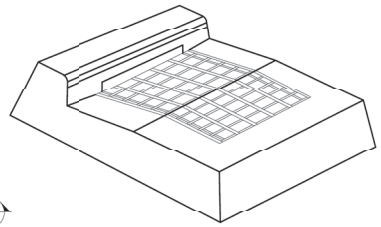
GENERAL NOTES:

1. SEE SHEET HW-586_08 FOR CATCH BASIN FRAMES AND GRATES, AND HW-586_09 CATCH BASIN LOCK DOWN TOPS.
2. SEE SHEET HW-586_02 CATCH BASIN TOPS (TYPES "C" AND "C-L") FOR DOUBLE GRATE TYPE I TO DETERMINE THE TOP OF FRAME AT THE GUTTER.
3. ALL BARS SHALL HAVE A MINIMUM 2" COVER.
4. MANUFACTURING DIMENSIONAL TOLERANCE TABLE

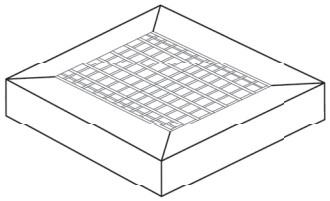
Any Dimension (D)	Allowable Tolerance
D < 5"	± ¼"
5" ≤ D ≤ 10"	± ½"
D > 10"	± 1"



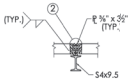
TYPE "C" CATCH BASIN DOUBLE GRATE TYPE I TOP PLAN



TYPE "C" CATCH BASIN DOUBLE GRATE TYPE I TOP



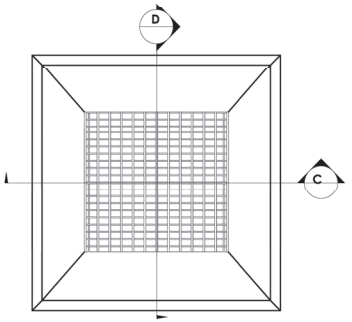
TYPE "C-L" CATCH BASIN DOUBLE GRATE TYPE I TOP



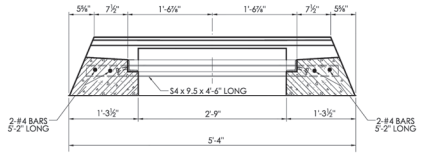
DETAIL 1



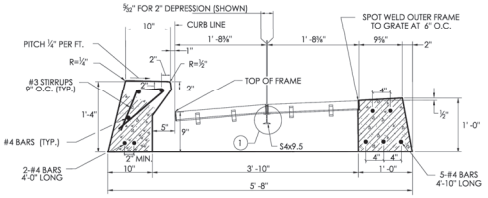
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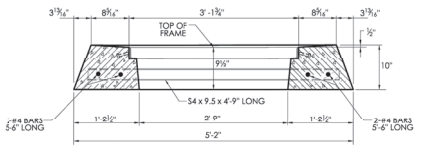
TYPE "C-L" CATCH BASIN DOUBLE GRATE TYPE I TOP PLAN



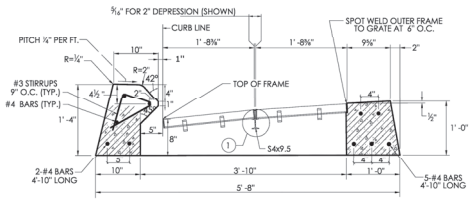
TYPE "C" CATCH BASIN DOUBLE GRATE TYPE I TOP SECTION A



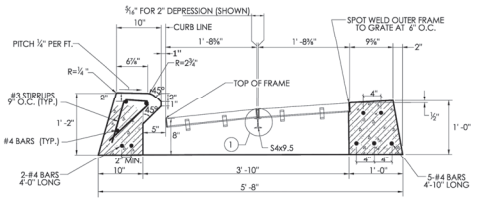
TYPE "C" CATCH BASIN DOUBLE GRATE TYPE I TOP FOR 6" CONCRETE CURBING OR 6" STONE CURBING SECTION B



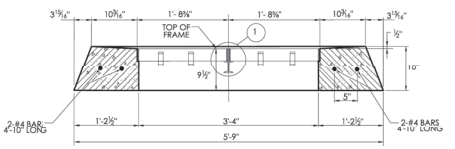
TYPE "C-L" CATCH BASIN DOUBLE GRATE TYPE I TOP SECTION C



TYPE "C" CATCH BASIN DOUBLE GRATE TYPE I TOP FOR 6" BITUMINOUS CONCRETE LIP CURBING SECTION B



TYPE "C" CATCH BASIN DOUBLE GRATE TYPE I TOP FOR 4" CONCRETE PARK CURBING OR 4" BITUMINOUS CONCRETE PARK CURBING SECTION B



TYPE "C-L" CATCH BASIN DOUBLE GRATE TYPE I TOP SECTION D

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STANDARD SHEET TITLE: CATCH BASIN TYPE "C" AND "C-L" DOUBLE GRATE TYPE I TOPS	STANDARD SHEET NO.: HW-586_07b	

PLOTTED DATE: 9/21/2022

DOUBLE TYPE I CATCH BASIN TOP
NO SCALE

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Town of Thomaston

Old Northfield Rd

Unnamed Tributary Stabilization and Roadway Drainage Improvements

Thomaston, CT

MARK	DATE	DESCRIPTION

PROJECT NO:	T0233-041
DATE:	10/15/2025
FILE:	T0233-41-C-600-DETL.dwg
DRAWN BY:	NG/TAS
CHECKED BY:	JAC
APPROVED BY:	CJC

DETAILS - 5

SCALE: AS SHOWN

C-605

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Tighe & Bond

Town of Thomaston Transfer Station
258 Old Waterbury Road
Thomaston, Connecticut

Old Northfield Road Watercourse Mitigation Plan

Town of Thomaston

August 2026

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Appendices

Appendix A: Mitigation Site Plan

SECTION 1 | Introduction

This Watercourse Mitigation Plan (Plan) is prepared for the Old Northfield Road Stream Stabilization and Roadway Drainage Improvements Project (Project) as part of the Project's Water Quality Certification and Non-Consumptive Water Diversion permits (202507992-WQC & 202507995-DIV). The development of this Plan has included a review of the *U.S. Army Corps of Engineers New England District Compensatory Mitigation Standard Operating Procedures* (SOP) (April 26, 2024). Mitigation will occur along Branch Brook at the Town of Thomaston (the Town) Transfer Facility at 258 Old Waterbury Road in Thomaston, Connecticut (Mitigation Site). This Plan includes the following components:

- Discussion of the proposed Project impacts
- Discussion of the proposed Project mitigation
- Proposed plantings
- Proposed soil amendments
- Long-term protection plan
- Mitigation monitoring
    - Performance standards
    - Reporting Schedule

In addition to this narrative, a mitigation site plan has been prepared which detail the locations of mitigation activities including numbers and species of plantings and other associated activities.

The objectives of the Plan are to take advantage of opportunities at the Site to rehabilitate a riparian area adjacent to the Naugatuck River Greenway Multi-Use Trail Project. Riparian area rehabilitation is consistent with the site's zoning and presents an opportunity to coincide with the proposed greenway project.

SECTION 2 | Compensatory Mitigation Requirements

This section of the Mitigation Plan provides information about the Project impacts, recommended compensatory mitigation, and site search for potential mitigation sites.

2.1 Project Impacts

The Project is located at 380 Old Northfield Road, an undeveloped parcel of land on the south side of Old Northfield Road in a rural area of Thomaston, Connecticut (Project Site). The existing parcel is mostly wooded with light underbrush and contains wetlands, four intermittent watercourses, and an unnamed perennial watercourse that flows from northeast to southwest. The parcel abuts Old Northfield Road to the northwest, 378 Old Northfield Road to the northeast, 432 Old Northfield Road to the east, 382 Old Northfield Road to the south, and Connecticut State Forest to the west.

The parcel is undeveloped and there is no driveway. The Project area is accessible to off-road vehicles that turn off from Old Northfield Road, or from the private driveway to 378 Old Northfield Road.

The unnamed watercourse runs alongside Old Northfield Road before it discharges to Black Rock Lake, approximately 0.5 mile to the south. The north bank of the watercourse is a steep slope which rises up to Old Northfield Road, and the south bank has a more shallow slope which abuts low lying areas on the property. According to FEMA, the Project Site is located in Zone D, an area with an undetermined but possible flood risk.

The Project proposes the restoration and stabilization of approximately 380 LF of an unnamed watercourse located within the 380 Old Northfield Road parcel. The watercourse and banks were disturbed in 2022 by the Town Highway Department, resulting from the emergency action by the Town to protect the existing roadway and embankment from collapse. The emergency actions included the addition of riprap to the north bank between the watercourse and the road, and the excavation of the streambed. These actions altered grades south of the stream and deposited wet soils in relatively flat areas.

The section of the watercourse that was previously disturbed is generally a rectangular channel with steep side slopes. The channel walls and banks lack armoring, structural or vegetative, and are eroding due to flow depths and velocities. There are several large trees along the bank of the watercourse with exposed roots, and others that have fallen over or into the watercourse, deflecting flow to favor one bank over the other. The Project seeks to restore and stabilize this section of the watercourse by means of grading, bank stabilization, and native plantings on the overbanks. Roadway drainage improvements are also proposed to better collect runoff and discharge through engineered outlet protection measures.

The purpose of the Project is to restore and stabilize this section of watercourse that was disturbed by the Town to prevent future erosion and provide mitigation for disturbance on the 380 Old Northfield Road property. A crushed-stone tracking pad will be used at the construction entrance. The proposed modifications include stabilization of the north bank of the watercourse, which has eroded and compromised the integrity of Old Northfield Road, and widening and realignment of the watercourse to reduce potential for future erosion. Stabilization of the bank will be accomplished with crushed stone, riprap, and boulders. A temporary cofferdam and bypass will need to be constructed to enable work within the watercourse. Temporary pipe culverts, designed in accordance with the CTDOT Drainage Manual Temporary Hydraulic Facilities, are proposed to temporarily bypass the watercourse flows around the work area. All temporary facilities will be removed following the completion of the watercourse restoration work.

The Project also includes the regrading of low areas to reduce streambank erosion. These low areas were disturbed following the emergency correction action taken by the Town to stabilize the embankment. Cuts and fills in these areas will use borrow material from the Project Site.

The Town proposes permanent modifications to the watercourse for stabilization, which include reducing the slope of the north bank from roughly 1H:1V to a max of 2H:1V; stabilizing the bank with crushed stone, riprap and boulders; and widening the streambed to match the approximate upstream width to reduce stream velocities and erosive potential. The existing stream bed will remain and be widened to 20 feet in most sections. The south bank will be at 4H:1V to existing grade. A permanent culvert crossing (prepared by others) is proposed after all stabilization is complete.

2.2 Recommended Compensatory Mitigation Quantities

The U.S. Department of Agriculture Natural Resources Conservation Service's (USDA-NRCS) *Stream Visual Assessment Protocol* (SVAP) (Version 2) was used to assess conditions at the Project Site. The SVAP determined the unnamed tributary to Branch Brook at the Project Site is in fair condition. The SOP recommends a multiplier of 0.4 to determine permittee responsible compensation mitigation requirements for bank armoring for streams below the ordinary high water mark. The proposed form of mitigation will be rehabilitation of a riparian area, which has a credit generation multiplier of 0.5 for stream mitigation resulting in 1 step of channel condition improvement (e.g., poor to fair). The equation below illustrates the recommended compensatory mitigation quantity:

$$\frac{(380\ \text{LF} \times 2\ \text{banks} \times 0.4\ \text{PRM multiplier})}{0.5\ \text{mitigation generation}} = 608\ \text{LF}$$

A minimum of 608 LF of riparian area rehabilitation is proposed to compensate for the 380 LF of permanent impacts from streambank stabilization.

2.3 Mitigation Site Search

Tighe & Bond reviewed potential mitigation sites with streams that may be suitable for riparian area rehabilitation. The GIS search criteria was limited to the Town of Thomaston and focused on parcels with watercourses or waterbodies and included Town-owned parcels, open space parcels, and privately owned parcels adjacent to Town-owned and open space parcels. A total of 57 parcels were identified that met these criteria. Most of these parcels were unsuitable for riparian area rehabilitation due to the following reasons:

- Not enough streambank available for the minimum amount of proposed mitigation
- Access to streambank deemed impractical for rehabilitation construction
- Properties owned by federal or state government
- Opportunities for conservation easements and long-term management on privately owned properties are unlikely

One Town-owned parcel has enough streambank to meet the 608 LF of proposed mitigation, at 258 Old Waterbury Road. This parcel is the location of the Town of Thomaston Transfer Station.

SECTION 3 | Baseline Conditions

On May 8, 2026, Matthew Regan, a Tighe & Bond wetland scientist, visited the Town of Thomaston Transfer Station to evaluate its suitability for riparian area rehabilitation. The Town-owned property borders Branch Brook to the west and Naugatuck River to the east. The stretch of Naugatuck River bordering the site was deemed unsuitable for riparian area rehabilitation due to high flows. The stretch of Branch Brook bordering the site is in fair condition according to the USDA-NRCS SVAP (Version 2) methodology. Dominant vegetation adjacent to Branch Brook included sugar maple (*Acer saccharum*), American sycamore (*Platanus occidentalis*), Japanese knotweed (*Fallopia japonica*), Japanese barberry (*Berberis thunbergii*), and garlic mustard (*Alliaria petiolata*).

3.1 Hydrology

According to CTDEEP, Branch Brook has a Class A water quality classification. Branch Brook was 15 to 20 feet wide and 6 to 12 inches deep at the time of site visit on May 8, 2026. There is a 100-year flood zone associated with Branch Brook at the site with Zone A elevations mapped between 322 to 323 feet NGVD 29 (FIRM 090055 0005 B, effective 7/5/1982). The contributing watershed area to the proposed mitigation area is approximately 22.6 square miles based on a StreamStats assessment. The site has natural sources of hydrology from overbank flooding, precipitation, and groundwater to support riparian area rehabilitation.

3.2 Soils

According to the USDA-NRCS Web Soil Survey, the following soils are at the site:

Merrimac fine sandy loam, 0 to 3 percent slopes
Merrimac fine sandy loam soils are found on outwash plains and valleys with parent material derived from loamy glaciofluvial deposits derived from granite, schist, and gneiss over sandy and gravelly glaciofluvial deposits derived from granite, schist, and gneiss. The natural drainage class of this soil is somewhat excessively drained.

Occum fine sandy loam
Occum fine sandy loam soils are on floodplains with parent material derived from coarse-loamy alluvium. The natural drainage class of this soil is well drained.

3.3 Landscape Position

According to the U.S. Fish and Wildlife Service's National Wetland Inventory, Branch Brook is a permanently flooded upper perennial riverine wetland with an unconsolidated bottom (R3UBH). The unnamed tributary to Branch Brook at 380 Old Northfield Road is a permanently flooded unknown perennial riverine wetland with an unconsolidated bottom (R5UBH). Both the 380 Old Northfield Road site and Town Transfer Station border riverine systems with similar hydrogeomorphic classifications. The 380 Old Northfield Road site and the Town Transfer Station are both within the Branch Brook watershed (HUC 12: 011000051104).

SECTION 4 | Mitigation Strategy

The primary method of compensatory mitigation at the Town Transfer Station will be riparian area rehabilitation along Branch Brook. The understory of the riparian area is dominated by invasive plant species such as Japanese knotweed, Japanese barberry, and garlic mustard. Invasive plant species management will be necessary to improve the quality of the riparian area. The recommended invasive species control includes the following activities:

- Mechanical cutting of Japanese knotweed and Japanese barberry with hand equipment
- Potential mechanical removal of Japanese barberry with a root wrench if feasible
- Herbicide application to Japanese knotweed and Japanese barberry after cutting
- Garlic mustard removal by hand
- Planting native shrubs and trees

The cut plant material will be collected for proper disposal to avoid dispersion of plants, particularly Japanese knotweed. Herbicide applications will be conducted by licensed applicators in accordance with product labeling. Herbicide selection and application timing will be made to maximize effectiveness for Japanese knotweed control. It is anticipated that mechanical and herbicide treatments will occur during growing seasons for at a minimum of two years before planting. An assessment of site conditions in the third year will be made on the density of invasive before trees and shrubs are planted.

Planting native floodplain shrubs and trees along the bank of the Branch Brook will increase woody vegetation coverage to aid in the control of invasive species. Approximately 662 LF of riparian area will be planted with native plant species.

SECTION 5 | Mitigation Construction

This section of the Mitigation Plan provides information about the construction schedule, methods, and materials to be used for the mitigation activities.

5.1 Financial Assurance

The Town understands that wetlands mitigation is a meaningful part of the approvals for this Project and has committed financial resources to the mitigation design and implementation plan. The Project will also require mitigation for the Section 404 wetlands authorization from the USACOE, which will be made as an In Lieu Fee payment. The costs of mitigation planting and construction will be included in the Town's budgeting for the Project.

5.2 Construction Time Frame

Construction of the Mitigation is scheduled to begin in 2027pending receipt of the required approvals and Town funding. The initial construction will include invasive plant species control and Mitigation Site preparation. All planting will be conducted between April 1st and September 30th. Plantings may be watered after installation as required.

5.3 Erosion and Sedimentation Control

Branch Brook will be protected by erosion and sediment control barriers when ground disturbance is proposed. Erosion and sediment control barriers will be installed prior to construction. All disturbed areas exposed for more than seven days will be protected with temporary vegetative cover. Silt fencing will be installed around the soil stockpile area, above the western bank of the Naugatuck River, and above the eastern bank of Branch Brook. These protective measures will be placed in a fashion that restricts access to watercourse resource areas while allowing the contractor to conduct work within the limits of the Project. The locations of the protective measures are shown on the Mitigation Drawings provided as an attachment. Disturbed areas will be seeded and mulched. Following the completion of the riparian area rehabilitation work, all temporary facilities will be removed. Erosion controls will be removed when all disturbed areas have been stabilized and the Town has provided authorization.

5.4 Mitigation Implementation

A wetland scientist will supervise the construction of the riparian rehabilitation area. This will include a review of potential replacement species or materials based on availability of materials. In the field, the wetland scientist will aid in the placement of soil, layout and planting of plants, and stabilization. Any changes in the design that are required during the implementation period will be noted and reported in the first Mitigation Monitoring Report.

5.5 Post-Construction Restoration

The restoration measures along Branch Brook include restoring the riparian area with riparian plantings and soil amendments if necessary. Approximately 0.61 acres of riparian area will be rehabilitated with seed mix and

plantings. Erosion controls will not be removed from the Mitigation Site until revegetation and soil stabilization has occurred.

5.6 Plant Lists

Lists of plant species, numbers of plantings, and quantities of seed are provided in the Mitigation Plan Set and listed below.

TABLE 5-1 Mitigation Plantings

	Common Name	Botanical Name	Quantity	Size/Type
1	American elderberry	*Sambucus canadensis*	15	#3 Container
2	Black Chokeberry	*Aronia melanocarpa*	25	#3 Container
3	Black gum	*Nyssa sylvatica*	2	2 – 2.5-inch caliper
4	Black willow	*Salix nigra*	8	2 – 2.5-inch caliper
5	Buttonbush	*Cephalanthus occidnetalis*	41	#3 Container
6	Eastern white pine	*Pinus strobus*	7	4 – 5-foot height
7	Gray dogwood	*Cornus racemosa*	7	#3 Container
8	Highbush blueberry	*Vaccinium corymbosum*	20	#3 Container
9	Northern arrowwood	*Viburnum dentatum*	21	#3 Container
10	Pussy willow	*Salix discolor*	20	#5 Container
11	Red Maple	*Acer rubrum*	2	2 – 2.5-inch caliper
12	Red twig dogwood	*Cornus sericea*	36	#3 Container
13	Silky dogwood	*Cornus amomum*	29	#3 Container
14	Spicebush	*Lindera benzoin*	28	#3 Container
15	Swamp White Oak	*Quercus bicolor*	1	2 – 2.5-inch caliper
16	Winterberry	*Ilex verticillata*	18	#3 Container

.A total of 280 plants from 16 different species will be planted for the streambank mitigation. The proposed plant material is all native species. Species selection included the following considerations:

- Direct sunlight or under canopy
- Anticipated hydrology
- Species present in adjacent wetlands
- Availability of source material that is native and a regional genotype

Specific plant species may need to be replaced with other appropriate native species based on the availability of source material. The relative number of different plants may be modified based on material availability following review by the wetland scientist. The Project wetland scientist may also modify planting

layouts based on field conditions. All plant substitutions will require review to ensure that native species appropriate to the specific hydrology of the planting area are used.

5.7 Riparian Area Soils

It is anticipated that soil addition may be required in some areas for riparian rehabilitation, such as areas proposed for invasive species control. The soil to be placed will have organic matter content greater than 12 percent organic carbon. A reputable supplier of bulk topsoil will provide the topsoil, which typically will be mixed with a leaf compost to increase the soil organic matter content. The proposed soil mix shall be tested for pH, organic matter content, nitrogen, phosphorus, and potassium availability. A wetland scientist will review the topsoil supplier in an effort to minimize the likelihood that the imported topsoil will contain seeds of invasive species. The backfill area may vary based on the amount of material removed but the planting bed for seeds and plants will be no less than six inches.

SECTION 6 | Invasive Plant Species Management

The Project's Mitigation Plans includes areas where rehabilitation includes improvements to riparian areas through invasive plant species control. This section will discuss construction period and post-construction management approaches for invasive species control. The Town will contract Connecticut Licensed Herbicide Applicators. Future decisions on invasive species management control approaches will include Town staff who can assess options based on their knowledge of available products, time of year, and impacts to native plants.

6.1 Japanese Knotweed

Areas adjacent to the transfer station and along the bank of Branch Brook are dominated by Japanese knotwood. This species can be found in a variety of environmental conditions, including disturbed areas and low-lying areas adjacent to water sources. It poses a significant challenge in riparian areas where it can survive severe floods. Control may include cutting Japanese knotweed close to the ground at least three times a year; however, cutting must be carried out for several years to be effective. A combination of cutting and herbicide may be effective. Cutting in early summer followed by herbicide treatment in late summer or early fall may help prevent Japanese knotweed from regrowing the following year. Long-term control will include planting riparian areas with native shrubs to outcompete Japanese Knotweed. It may be difficult to install mitigation plantings while management of Japanese knotweed is ongoing, particularly while trying to avoid cutting and spraying the mitigation plantings. It is planned to wait atleast two years to install mitigation plantings after of the start of Japanese Knotweed control to avoid impacting the mitigation plantings and to allow for the trees and shrubs to establish.

6.2 Japanese Barberry

Japanese barberry is present in areas adjacent to the bank of Branch Brook. Control of Japanese barberry may include cutting stems, herbicide application to cut stems, and potentially root pulling during the planting of native shrubs. Long-term control will include planting riparian areas with native shrubs to outcompete Japanese barberry. Control measures will continue during the two year period before planting.

6.3 Garlic Mustard

Garlic mustard is present in areas adjacent to the bank of Branch Brook and adjacent to the transfer station. This species can grow in a variety of environmental conditions and thrives in woodland areas with moist soil. Garlic mustard can be easily removed by hand during the growing season. Plants can also be cut repeatedly low to the ground prior to seed formation. Herbicide treatment may be recommended for larger populations. Herbicide application in early spring when it is the one of the few plants growing helps avoid impacting native plants.

SECTION 7 | Long-term Management

7.1 Protection of Mitigation Areas

Long-term protection of the site up to 10 years is expected as it is owned by the Town. The Town Reporting Coordinator will maintain a map of the areas established for riparian area rehabilitation for the permits. The location of the mitigation areas will be communicated to Town staff to ensure that the mitigation areas are protected. Adaptive management activities may occur in the mitigation areas as recommended by the results of post-construction monitoring.

7.2 Adaptive Management

Adaptive management is the term used to cover any actions that may be required to maintain the riparian rehabilitation areas to allow those areas to achieve the performance standards. Required actions may include:

- Protection of plantings from deer and goose browse
- Watering plantings
- Replacing plantings
- Invasive plant removal (pulling, cutting, herbicide)
- Erosion control measures

Adaptive management measures will be developed based on any observed problems in an area to allow for the mitigation area to meet its ecological goals and performance standards. Implementation of activities will be coordinated with the Town staff. Long-term management in the riparian rehabilitation areas will be developed with the Town staff following the completion of the permit monitoring period and will be based on the required post-construction monitoring during establishment of plantings.

SECTION 8 | Monitoring and Reporting

Monitoring will occur annually for five years following the construction of the mitigation area. Monitoring will continue in areas that do not meet the performance standards until the standards are met or up to 10 years. Monitoring will include assessments of vegetation, soils and hydrology, photo documentation, a review of conditions relative to performance standards, and recommendations for any management actions.

8.1 Vegetation Monitoring

Vegetation plots will be made in the riparian rehabilitation area using circular plots with a 5-foot radius for the herbaceous layer, 15-foot for shrubs, and 30-foot for trees; following the Corps Wetland Delineation Manual Regional Supplement[1]. Plot areas will be modified where necessary to keep the assessment area within the mitigation area. The numbers of plots are based on the size of the mitigation area. The vegetation plot locations will be located by GPS. Vegetation assessment will also assess the cover of the entire mitigation area to assess total areal coverage of vegetation.

An assessment of shrub understory plantings will be made by establishing five 1,000 square foot plots where numbers of planted shrubs will be counted. Additionally, notes on the health of planted shrubs, and the presence of additional volunteer shrubs, including invasive species. The plots will be field located with GPS and field marked with flagging tape or pin flags.

8.2 Soils and Hydrology

A visual assessment of hydrology will be made where vegetation plots will be performed. That assessment will be reported and used to support any adaptive management recommendations. An assessment of soils stability of any open soil will be made at all locations in conjunction with the assessment of total site vegetation coverage.

8.3 Photo Documentation

Representative photo(s) at each of the mitigation areas will be taken at locations that will be located by GPS and shown on a site plan that will be attached to the monitoring report. The photos will provide a sequence to visually depict the development of the mitigation areas following construction.

8.4 Annual Reporting

The Mitigation Monitoring will occur annually in the growing season (April 1 – September 30) for five years, where the first year will be the first year that the Mitigation Site has been through a full growing period after completion of construction and planting. Monitoring at the Mitigation Site will continue beyond five years if it

[1] U.S. Army Corps of Engineers. 2011. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0), ed. J. S. Wakeley, R. W. Lichvar, C. V. Noble, and J. F. Berkowitz. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

does not meet performance standards, up to 10 years. Monitoring reports for each year will be submitted to CTDEEP's Land and Water Resources Division and will include the following information:

- A plan depicting the location of mitigation areas, vegetation plots, and reference photo locations
- Vegetation plot data and other vegetation counts
- Hydrology and soils field data and observations
- Narrative discussion of mitigation construction and adaptive management measures previously taken
- Review of the status of meeting performance standards
- Recommendations for future adaptive management actions and any other recommendations

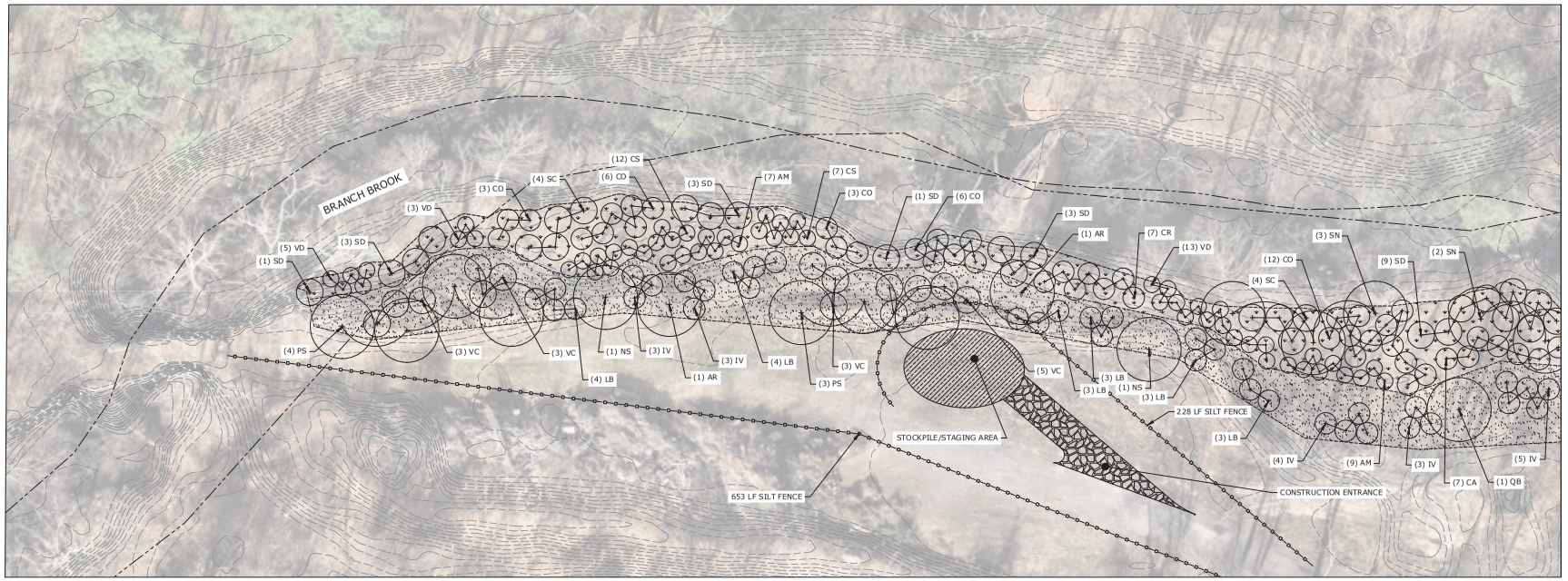
8.5 Performance Standards

The performances standards are:

- The riparian rehabilitation area has 70% native vegetation cover and is stabilized
- Planted shrubs and trees will have a minimum 50% aerial coverage of the riparian rehabilitation area in Year 5 after planting
- The riparian rehabilitation area has less than 30% areal coverage of invasive plant species

Tighe & Bond

Appendix A:
Mitigation Site Plan



PLANT SCHEDULE

STREAMBANK PLANTINGS

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE/TYPE	REMARKS
AM	25	ARONIA MELANOCARPA	BLACK CHOKEBERRY	#3 CONT.	6' O.C. SPACING MIN.
CO	41	CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH	#3 CONT.	8' O.C. SPACING MIN.
CA	29	CORNUS AMOMUM	SILKY DOGWOOD	#3 CONT.	6' O.C. SPACING MIN.
CR	7	CORNUS RACEMOSA	GRAY DOGWOOD	#3 CONT.	8' O.C. SPACING MIN.
CS	36	CORNUS SERICEA	RED TWIG DOGWOOD	#3 CONT.	6' O.C. SPACING MIN.
SC	15	SAMBUCUS CANADENSIS	AMERICAN ELDERBERRY	#3 CONT.	10' O.C. SPACING MIN.
SD	20	SALIX DISCOLOR	PUSSY WILLOW	#5 CONT.	10' O.C. SPACING MIN.
SN	8	SALIX NIGRA	BLACK WILLOW	2 - 2-1/2" CAL.	SINGLE OR MULTI-STEM
VD	21	VIBURNUM DENTATUM	NORTHERN ARROWWOOD	#3 CONT.	6' O.C. SPACING MIN.

UPLAND PLANTINGS

AR	2	ACER RUBRUM	RED MAPLE	2 - 2-1/2" CAL.	SINGLE OR MULTI-STEM
IV	18	ILEX VERTICILLATA 'LITTLE GOBLIN RED'	WINTERBERRY	#3 CONT.	8' O.C. SPACING MIN.
LB	28	LINDERA BENZOIN	SPICEBUSH	#3 CONT.	8' O.C. SPACING MIN.
NS	2	NYSSA SYLVATICA	BLACK GUM	2 - 2-1/2" CAL.	SINGLE STEM
PS	7	PINUS STROBUS	EASTERN WHITE PINE	4'-5' HT.	B&B
QB	1	QUERCUS BICOLOR	SWAMP WHITE OAK	2 - 2-1/2" CAL.	SINGLE STEM
VC	20	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	#3 CONT.	10' O.C. SPACING MIN.

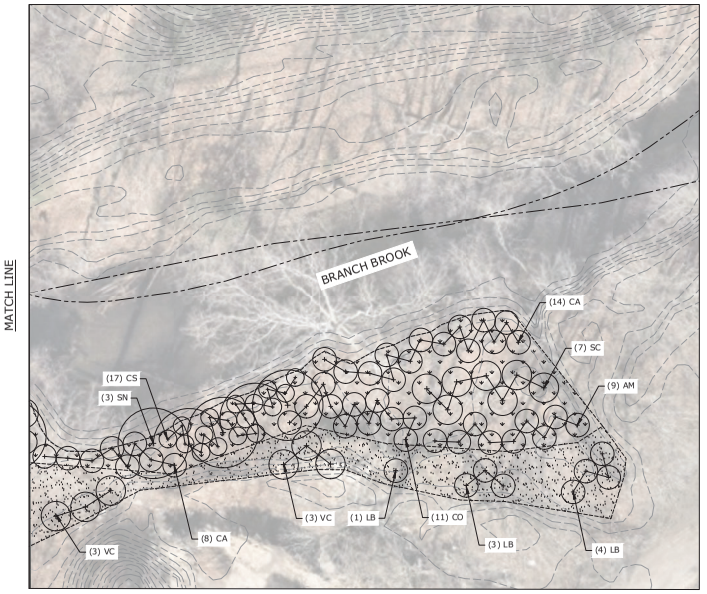
LEGEND

PROPOSED RIPARIAN MIX AND STREAM BANK PLANTINGS

PROPOSED RIPARIAN MIX AND UPLAND PLANTINGS

PROPOSED RIPARIAN BUFFER MIX BY ERNST SEEDS OR APPROVED EQUAL.

PROPOSED PLANTINGS BY NEW ENGLAND WETLAND PLANTS, INC, OR APPROVED EQUAL.



PLANTING NOTES

1. EXACT LOCATION OF PROPOSED PLANTINGS AND SPECIES TYPES MAY VARY FROM THIS PLAN BASED ON SITE PLAN REVISIONS AND/OR ACTUAL FIELD CONDITIONS.
2. ALL PLANTS TO BE BALLED IN BURLAP OR CONTAINERIZED.
3. CONTRACTOR SHALL BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING AND WILL CONTINUE UNTIL FINAL WRITTEN ACCEPTANCE OF THE PLANT MATERIAL.
4. SEED DISTURBED LAWN AREAS WITH "SMART SEED NORTHEAST MIX" BY PENNINGTON SEED, INC., OR APPROVED EQUIVALENT SEED MIXTURE. APPLY SOIL AMENDMENTS AS RECOMMENDED BY THE MANUFACTURER.
5. SPRAY NEW PLANTINGS IMMEDIATELY AFTER INSTALLATION WITH A WHITE-TAILED DEER REPELLENT AND CONTINUE AS NEEDED TO MAINTAIN PLANTS FREE OF SIGNIFICANT DEER BROWSING.
6. ALL PLANT MATERIALS ARE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE, AT THE NURSERY, AND AT THE SITE.
7. PLANT SPECIES SUBSTITUTIONS MAY BE MADE WITH THE APPROVAL OF THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO PLANTING. SUBSTITUTED PLANTS SHALL BE AT AN EQUAL OR GREATER SIZE AS NOTED USING A SIMILAR TYPE PLANT.
8. ALL MATERIALS AND PLANTING METHODS SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY "THE AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.2), LATEST EDITION, PUBLISHED BY AMERICANHORT (https://americanhort.org).
9. THE CONTRACTOR SHALL VERIFY WITH THE PROJECT ENGINEER THAT THE NEW PLANTINGS DO NOT INTERFERE WITH EXISTING AND/OR PROPOSED UTILITIES, AND/OR STRUCTURES.
10. THE LANDSCAPE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE ALL PLANTINGS AS SHOWN ON THE DRAWINGS.
11. THE LANDSCAPE CONTRACTOR SHALL TEST THE SOIL IN AREAS TO BE LANDSCAPED FOR DETERMINING THE NEED OF ADDING SOIL AMENDMENTS TO SUPPORT PROPER PLANT GROWTH. SUCH AMENDMENTS SHALL BE PROVIDED BY THE LANDSCAPE CONTRACTOR IF NEEDED.
12. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR ONE (1) FULL YEAR FROM DATE OF ACCEPTANCE.

Tighe&Bond
1000 Bridgeport Avenue
Suite 320
Shelton, CT 06484
T 203.712.1100

USACE/CTDEEP SUBMISSION

THIS DOCUMENT IS RELEASED TEMPORARILY FOR PROGRESS REVIEW ONLY. IT IS NOT INTENDED FOR BIDDING OR CONSTRUCTION PURPOSES.

Town of Thomaston

Old Northfield Rd

Unnamed Tributary Stabilization and Roadway Drainage Improvements

Thomaston, CT

MARK	DATE	DESCRIPTION
1	05/13/2026	CTDEEP COMMENTS

PROJECT NO:	T0233-041
DATE:	10/15/2025
FILE:	T0233-41-C-700-MITG.dwg
DRAWN BY:	NG
CHECKED BY:	TAS
APPROVED BY:	CJC

OFF SITE MITIGATION PLAN

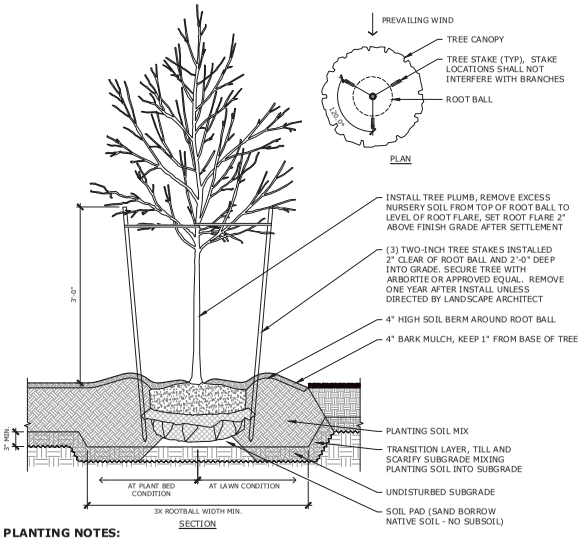
SCALE: 1" = 20'

C-700

Last Saved: 8/13/2026
Plotted On: Aug 13, 2026 9:56am By: BLolley
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SOIL EROSION AND SEDIMENT CONTROL NOTES

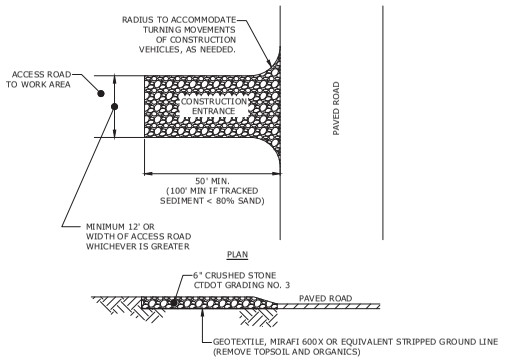
1. ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE "2024 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", AND ALL AMENDMENTS AND ADDENDA THERETO AS PUBLISHED BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION.
2. LAND DISTURBANCE SHALL BE KEPT TO THE MINIMUM NECESSARY FOR CONSTRUCTION OPERATIONS.
3. INSTALL ALL EROSION CONTROL MEASURES AS SHOWN ON THE PLAN AND ELSEWHERE AS ORDERED BY THE ENGINEER OR THE TOWN.
4. PROTECT ALL CATCH BASINS WITH A SILT SACKS, HAYBALE RING, SILT FENCE OR BLOCK AND STONE INLET PROTECTION THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED AS NOTED ON PLANS.
5. WHENEVER POSSIBLE, INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO CONSTRUCTION.
6. INSTALL ADDITIONAL CONTROL MEASURES DURING THE CONSTRUCTION PERIOD AS ORDERED BY THE ENGINEER.
7. MAINTAIN ALL SEDIMENTATION AND EROSION CONTROL MEASURES IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
8. SEDIMENT REMOVED SHALL BE DISPOSED OF OFF-SITE IN A MANNER AS REQUIRED BY THE ENGINEER.
9. THE CONSTRUCTION CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF ALL CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD.
10. PROTECT ALL DISTURBED AREAS EXPOSED FOR MORE THAN 7 DAYS WITH A TEMPORARY VEGETATIVE COVER. SEED THESE AREAS WITH PERENNIAL RYEGRASS AT THE RATE OF 40 LBS. PER ACRE (1 LB. PER 1,000 SQ. FT). APPLY SOIL AMENDMENTS AND MULCH AS REQUIRED TO ESTABLISH A UNIFORM STAND OF VEGETATION OVER ALL DISTURBED AREAS.
11. THE CONSTRUCTION CONTRACTOR SHALL UTILIZE APPROVED METHODS/MATERIALS FOR PREVENTING THE BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES ONTO ADJACENT PROPERTIES AND SITE AREAS.
12. THE CONSTRUCTION CONTRACTOR SHALL MAINTAIN A SUPPLY OF SILT FENCE/HAYBALES AND ANTI-TRACKING CRUSHED STONE ON SITE FOR EMERGENCY REPAIRS.
13. THE CONTRACTOR SHALL INSPECT WEEKLY AT A MINIMUM, ALL DRAINAGE STRUCTURES AND CLEAN THEM AS NEEDED TO PREVENT THE BUILD-UP OF SILT.
14. THE CONSTRUCTION CONTRACTOR SHALL CAREFULLY COORDINATE THE PLACEMENT OF EROSION CONTROL MEASURES WITH THE PHASING OF CONSTRUCTION.
15. KEEP ALL PAVED ROADWAYS CLEAN. SWEEP BEFORE FORECASTED STORMS.
16. TREAT ALL UNPAVED SURFACE WITH 4" MINIMUM OF TOPSOIL PRIOR TO FINAL STABILIZATION.
17. INSTALL HAYBALE BARRIERS AND SILT FENCING ALONG THE TOE OF CRITICAL CUT AND FILL SLOPES.
18. THE CONTRACTOR SHALL NOTIFY THE TOWN ENVIRONMENTAL OFFICIAL PRIOR TO THE INSTALLATION OF EROSION CONTROLS, CUTTING OF TREES, OR ANY EXCAVATION.
19. COVER ALL TRUCKS CONTAINING MATERIALS BEFORE LEAVING THE SITE.
20. CHECK ALL SEDIMENTATION AND EROSION CONTROLS WEEKLY AND/OR AFTER EACH RAINFALL EVENT. MAKE NECESSARY REPAIRS IMMEDIATELY.
21. INSPECT AND REPAIR EROSION AND SEDIMENT CONTROLS PRIOR TO FORECASTED RAIN EVENTS.
22. REMOVE EROSION CONTROLS WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED AND THE TOWN HAS PROVIDED AUTHORIZATION. DISTURBED AREAS SHALL BE SEEDED AND MULCHED.



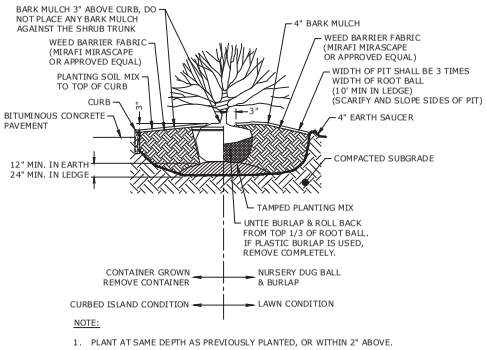
PLANTING NOTES:

1. FOR BALLED AND BURLAPPED TREES, REMOVE UPPER HALF OF BURLAP AND TWINE. FOR CONTAINERIZED TREES, REMOVE TREES FROM CONTAINERS PRIOR TO PLANTING AND SCARIFY ROOT BALL IN 4 PLACES TO ½" DEPTH.
2. LOOSE OR CRACKED ROOT BALLS WILL NOT BE ACCEPTED FOR PLANTING.
3. FLOOD WATERING SAUCER TWICE DURING FIRST 24 HOURS AFTER PLANTING.
4. IF SETTLEMENT OCCURS AFTER PLANTING AND WATERING, RAISE AND REPLANT TREE.

TREE PLANTING
1/2"=1'-0"

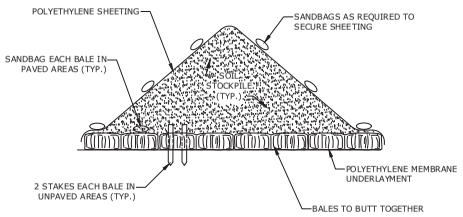


TRACKING PAD
NO SCALE

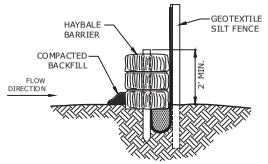


NOTE:
1. PLANT AT SAME DEPTH AS PREVIOUSLY PLANTED, OR WITHIN 2" ABOVE.

SHRUB PLANTING
NO SCALE

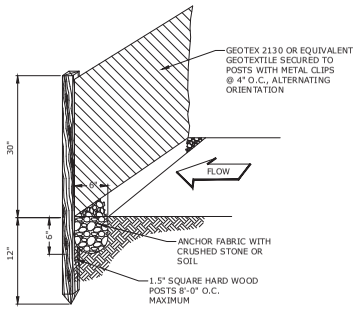


TEMPORARY CONTROLLED STOCKPILE AREA
NO SCALE



BACKFILL AND COMPACT THE EXCAVATED SOIL AS SHOWN ON THE UPHILL SIDE OF THE BARRIER TO PREVENT PIPING.

SILT FENCE AND HAYBALE COMBINED BARRIER
NO SCALE



SILT FENCE
NO SCALE

Tighe&Bond
1000 Bridgeport Avenue
Suite 320
Shelton, CT 06484
T 203.712.1100

USACE/CTDEEP SUBMISSION

THIS DOCUMENT IS RELEASED TEMPORARILY FOR PROGRESS REVIEW ONLY. IT IS NOT INTENDED FOR BIDDING OR CONSTRUCTION PURPOSES.

Town of Thomaston

Old Northfield Rd

Unnamed Tributary Stabilization and Roadway Drainage Improvements

Thomaston, CT

MARK	DATE	DESCRIPTION
1	05/13/2026	CTDEEP COMMENTS

PROJECT NO:	T0233-041
DATE:	10/15/2025
FILE:	T0233-41-C-700-MITG.dwg
DRAWN BY:	NG
CHECKED BY:	TAS
APPROVED BY:	CJC

SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

SCALE: AS SHOWN

C-701

Last Saved: 8/12/2026
Plotted On: Aug 12, 2026 3:38pm By: BLolley
File & Path: I:\T0233\Drawings\Cover\Sheet\T0233-41-C-700-MITG.dwg

Compliance Certification Form

The following certification must be signed by the licensee working in consultation with a Connecticut-licensed design professional and must be submitted to the address indicated at the end of this form within ninety (90) days of completion of the authorized work.

1. Licensee Name: Town of Thomaston

   DEEP License Number(s): 202507992-WQC & 202507995-DIV

   Municipality in which project is occurring: Thomaston

2. **Check one:**

   (a) ☐ "I certify that the final site conditions and / or structures are in general conformance with the approved site plans". Identify and describe any deviations and attach to this form.

   (b) ☐ "The final site conditions and / or structures are not in general conformance with the approved site plans. The enclosed "as-built" plans note the modifications".

3. "I understand that any false statement in this certification is punishable as a criminal offence under section 53a-157b of the General Statutes and under any other applicable law."

_____ _____
Signature of Licensee Date

_____
Name of Licensee (print or type)

_____ _____
Signature of CT-Licensed Design Professional Date

_____
Name of CT-Licensed Design Professional (print or type)

_____
Professional License Number (if applicable)

Affix Stamp Here

- As-built plans shall include: elevations or tidal datums, as applicable, and structures, including any proposed elevation views and cross sections included in the approved license plans. Such as-built plans shall be the original ones and be signed and sealed by an engineer, surveyor or architect, as applicable, who is licensed in the State of Connecticut.
- The Licensee will be notified by staff of the Land and Water Resources Division (LWRD) if further compliance review is necessary. Lack of response by LWRD staff does not imply compliance.

Submit this completed form to :
DEEP.LWRDRegulatory@ct.gov or
Regulatory Section
Department of Energy and Environmental Protection
Land & Water Resources Division
79 Elm Street
Hartford, CT 06106-5127

LWRD Work Commencement Form

To: DEEP.LWRDRegulatory@ct.gov or
Regulatory Section
Department of Energy and Environmental Protection
Land & Water Resources Division
79 Elm Street
Hartford, CT 06106-5127

Licensee Name: Town of Thomaston

Municipality in which the project is occurring: Thomaston

DEEP License No(s): 202507992-WQC & 202507995-DIV

CONTRACTOR(s):

1 Name: _____
Address: _____
Telephone: _____
E-mail: _____

2 Name: _____
Address: _____
Telephone: _____
E-mail: _____

3 Name: _____
Address: _____

Date Contractor(s) received a copy
of the license and approved plans: _____

EXPECTED DATE OF COMMENCEMENT OF WORK: _____

EXPECTED DATE OF COMPLETION OF WORK: _____

LICENSEE: _____ _____
(Signature) (Date)