

Connecticut Department of Energy and Environmental Protection License*

Inland Wetlands & Watercourses Permit

Licensee(s): Connecticut Department of Transportation

Licensee Address(s): 2800 Berlin Turnpike
Newington, CT 06131

License Number(s): 202403948-IW

Municipality: Mansfield

Project Description: Rehabilitation of Bridge No. 06648, Culvert Liner Installation for infrastructure improvement

Project Address/Location: U.S. Route 6 Eastbound over Unnamed Brook

Waters: Unnamed Brook

Authorizing CT Statute(s) and/or Federal Law: CGS Section 22a-36 to 45

Applicable Regulations of CT State Agencies: 22a-39-1 to 15

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: Eight (8) sheets entitled “*Environmental Permit Plans State Project No. 0077-0244 Rehabilitation of Bridge No. 06648 U.S. Route 6 Eastbound over Unnamed Brook*” prepared by CHA Consulting, Inc. dated February 27, 2024.

License Enclosures: LWRD Compliance Certification Form; LWRD General Conditions; Site Plan Set; LWRD Work Commencement Form

*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 . . .*”

Authorized Activities:

The Licensee is hereby authorized to conduct the following work as described in application # 202403948 and as depicted on any site plan sheets / sets cited herein:

1. Clear woody vegetation and treat invasive species in accordance with plan sheets herein;
2. Install sediment and erosion control fencing and erosion control matting in accordance with site plan sheets PMT-02 & PMT-03;
3. Extend an existing 15" diameter ACCMP (asphalt coated corrugated metal pipe) approximately 20 feet in the southerly direction in accordance with site plan sheet PMT-03;
4. Install a new, intermediate rip rap outlet apron with a length of 10 feet for the extended 15" ACCMP in accordance with site plan sheet PMT-03;
5. Place fill for southern access road and grade in accordance with site plan sheet PMT-03;
6. Install temporary water handling cofferdams per site plan sheets PMT-03 & PMT-06;
7. Install a new 10'3" wide by 6'9" tall, 102'-long aluminized steel, structural pipe liner within the existing 12'4" wide by 7'9" tall, 102'-long, corrugated ACMP in the dry, including the following activities in accordance with site plan sheets herein:
 - a. Repair voids in the existing corrugated ACMP (PMT-03, PMT-05);
 - b. Install temporary 54" bypass pipe for dewatering within the existing pipe or temporary pump (PMT-06);
 - c. Install the new aluminized steel, structural pipe liner and slip-line grout, via pressure grouting, to the annular space between the liner and existing pipe;
 - d. Install corner angle metal baffles throughout the length of the culvert, spaced 14 feet apart (PMT-05);
8. Remove temporary cofferdams, water handling facilities and bypass pipe or pump;
9. Install 6" of granular fill, 18" of Intermediate rip rap, and 12" of natural streambed material at the outlet to form a scour pool, of approximate bank full width and 16 feet length, in accordance with site plan sheets PMT-03 & PMT-07;
10. Install a cross-vane rock weir spanning bank full width by placement of rounded boulders ranging 1' to 1'6" in diameter in accordance with site plan sheets PMT-03 & PMT-07;
11. Grade and seed in accordance with site plan sheet PMT-08.

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. **Sediment Control Barriers.** The Project Proponent shall install a minimum of two rows of sediment control barriers between any disturbance area and any downgradient wetland

and/or watercourse. The closest face of any barrier system shall be installed at a distance no greater than 50 feet from the delineated boundary of any wetland and/or watercourse in the upgradient direction.

3. DEEP Fisheries Protections.

- a. **Bypass Pumping.** If bypass pumping is proposed, sizing and screen specifications will be submitted to DEEP Fisheries for approval prior to use during construction.
- b. **Rock Weir.** The Licensee shall notify DEEP Fisheries staff at least 10 business days prior to weir installation to confirm the date of installation and ensure the presence of DEEP Fisheries staff during such installation. The Licensee shall install the fishery enhancements as shown on plan sheet PMT-07, subject to any field modifications as directed by DEEP Fisheries Division staff. A description of any such field directed modification to the fishery enhancement plan shall be submitted to the Land and Water Resources Division within one week of completion.

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

Date

Emma Cimino
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 Commencement¹.** 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 Connecticut General Statutes Section 22a-6k, the Licensee shall 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.
- 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

¹ The Work Commencement condition and the need for a Work Commencement Form is not applicable to Flood Management Certification approvals.

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*, the *2004 Connecticut Stormwater Quality Manual*, or the *Department of Transportation's ConnDOT 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, *2004 Connecticut Stormwater Quality Manual*, Department of Transportation’s *ConnDOT 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. 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.

17. 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.

18. Compliance Certification². 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.

19. 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.

20. 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.

21. 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.

22. 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

² The Work Commencement condition and the need for a Work Commencement Form is not applicable to Flood Management Certification approvals.

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

23. 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.

24. 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."

25. 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.

26. 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.

27. 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.

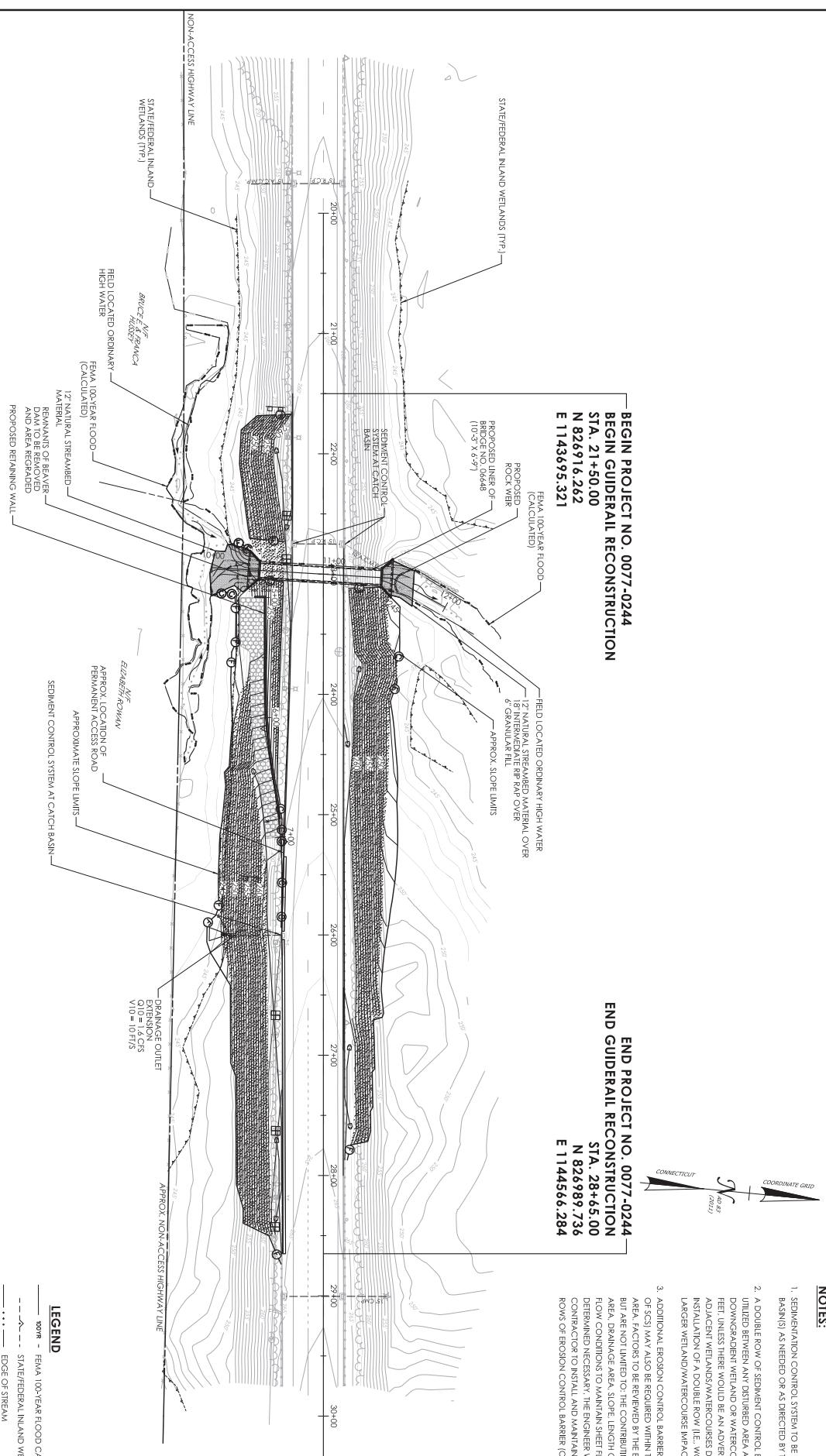
If the violation occurs outside of normal business hours, the Licensee shall contact the Department of Energy and Environmental Protection Emergency Dispatch at 860-424-3333. The Licensee shall comply with any dates which may be approved in writing by the Commissioner.

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

29. 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.

30. 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.

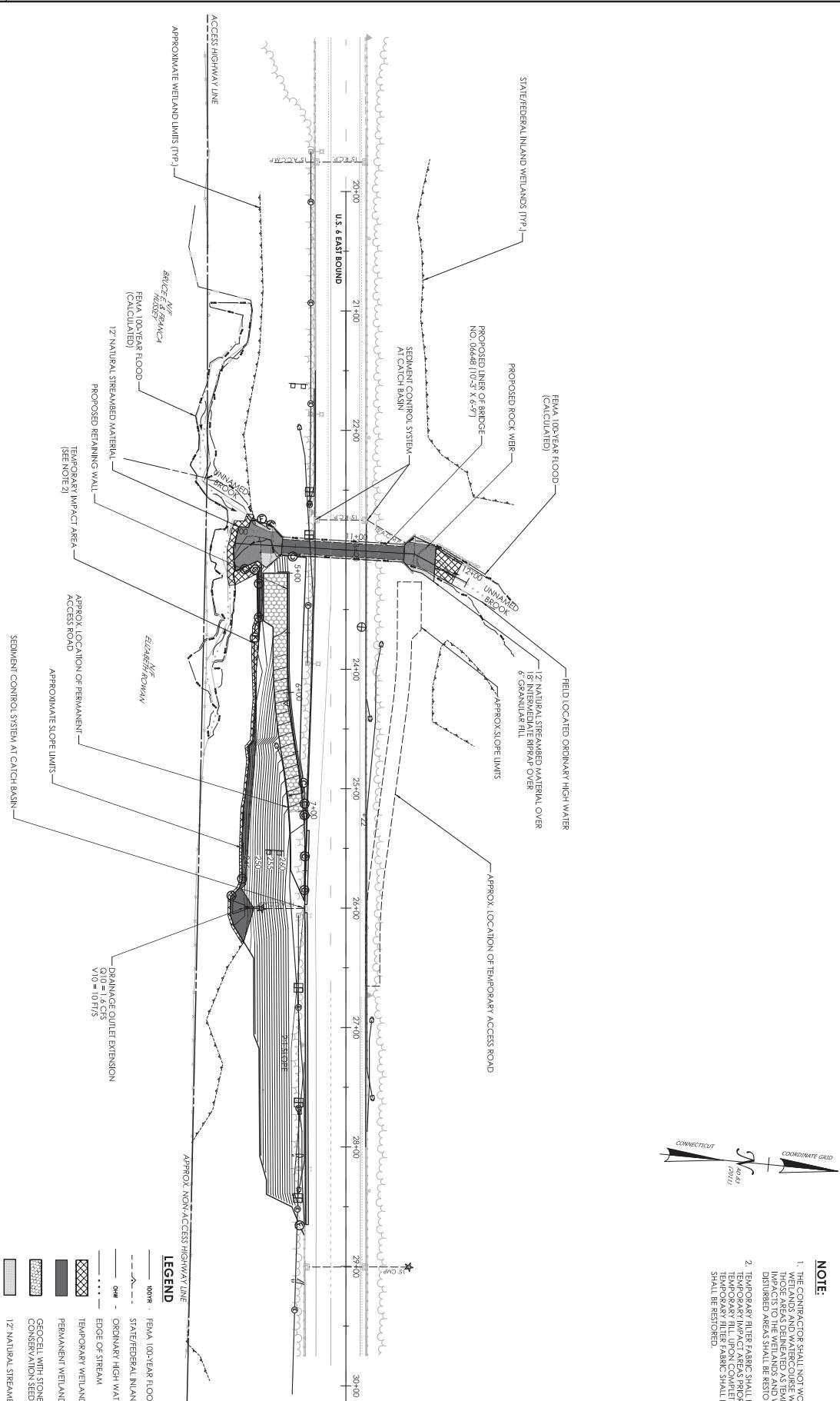
31. Condition Conflicts. In the case where a project specific special condition listed on the license differs from, or conflicts with, one of the general conditions listed herein, the project specific special condition language shall prevail. It is the licensee's responsibility to contact the agency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



ENVIRONMENTAL PLANNING

DESIGNER/DRAFTER: ABC

ENVIRONMENTAL PERMIT PLANS		DATE: 02/27/2024	0' 40' 80' 120' 160' 200' 240' 280' 320' 360' 400' 440' 480' 520' 560' 600' 640' 680' 720' 760' 800' 840' 880' 920' 960' 1000' 1040' 1080' 1120' 1160' 1200' 1240' 1280' 1320' 1360' 1400' 1440' 1480' 1520' 1560' 1600' 1640' 1680' 1720' 1760' 1800' 1840' 1880' 1920' 1960' 2000' 2040' 2080' 2120' 2160' 2200' 2240' 2280' 2320' 2360' 2400' 2440' 2480' 2520' 2560' 2600' 2640' 2680' 2720' 2760' 2800' 2840' 2880' 2920' 2960' 3000' 3040' 3080' 3120' 3160' 3200' 3240' 3280' 3320' 3360' 3400' 3440' 3480' 3520' 3560' 3600' 3640' 3680' 3720' 3760' 3800' 3840' 3880' 3920' 3960' 4000' 4040' 4080' 4120' 4160' 4200' 4240' 4280' 4320' 4360' 4400' 4440' 4480' 4520' 4560' 4600' 4640' 4680' 4720' 4760' 4800' 4840' 4880' 4920' 4960' 5000' 5040' 5080' 5120' 5160' 5200' 5240' 5280' 5320' 5360' 5400' 5440' 5480' 5520' 5560' 5600' 5640' 5680' 5720' 5760' 5800' 5840' 5880' 5920' 5960' 6000' 6040' 6080' 6120' 6160' 6200' 6240' 6280' 6320' 6360' 6400' 6440' 6480' 6520' 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WETLAND IMPACTS		WATERCOURSE IMPACTS	TOTAL
PERMANENT IMPACTS	1325 F. (0.30 AC.)	2225 S.F. (0.60 AC.)	3950 F. (0.90 AC.)
TEMPORARY IMPACTS	1170 F. (0.025 AC.)	255 S.F. (0.005 AC.)	1175 F. (0.03 AC.)
TOTAL IMPACTS	3495 F. (0.35 AC.)	3500 S.F. (0.075 AC.)	5745 S.F. (0.134 AC.)

NOTE:

1. THE CONTRACTOR SHALL NOT WORK WITHIN THE LAWS OF THE STATE OF CALIFORNIA, WHICH PROHIBIT THE PLACEMENT OF THESE AREAS DESIGNATED AS TEMPORARY OR PERMANENT IMPACTS TO THE WELANDS AND WATER-COURSE, ALL DISTURBED AREAS SHALL BE RESTORED.
2. TEMPORARY FILTER FABRIC SHALL BE PLACED ON DESIGNATED TEMPORARY IMPACT AREAS PRIOR TO PLACEMENT OF TEMPORARY FILM UPON COMPLETION OF CONSTRUCTION, THE TEMPORARY FILTER FABRIC SHALL BE REMOVED AND THE AREA SHALL BE RESTORED.

FILE NAME: V:\Projects\ANP\K6\07046900\1\&Custom\hen\CT Connect\Env\Contract\Plans\VN1\CP-007\2024\03_wetland_watercourse_inplace.dwg
LASTED BY: 31/12/2024
PLOTTED BY: 31/12/2024

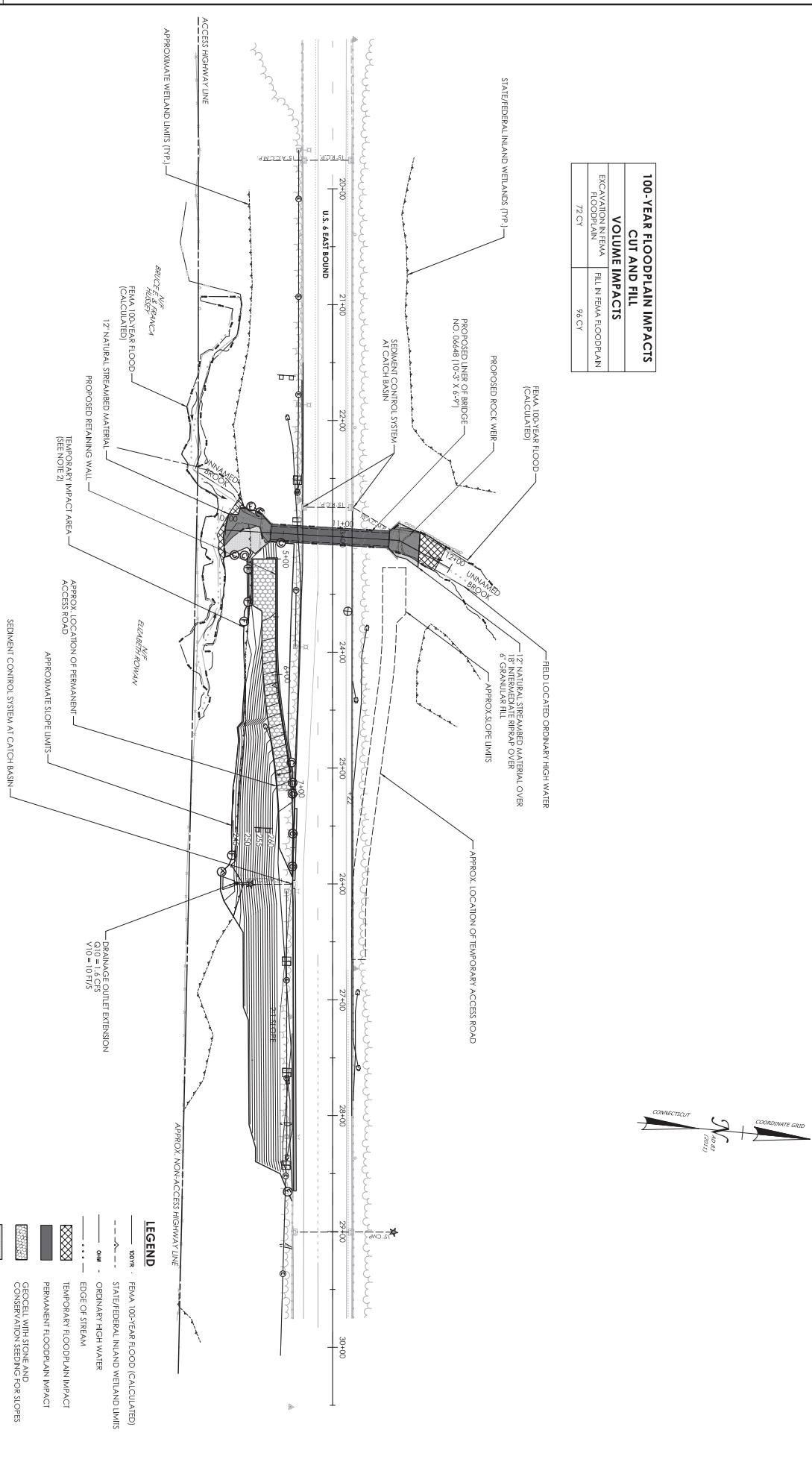
REVISION DESCRIPTION	
DATE	

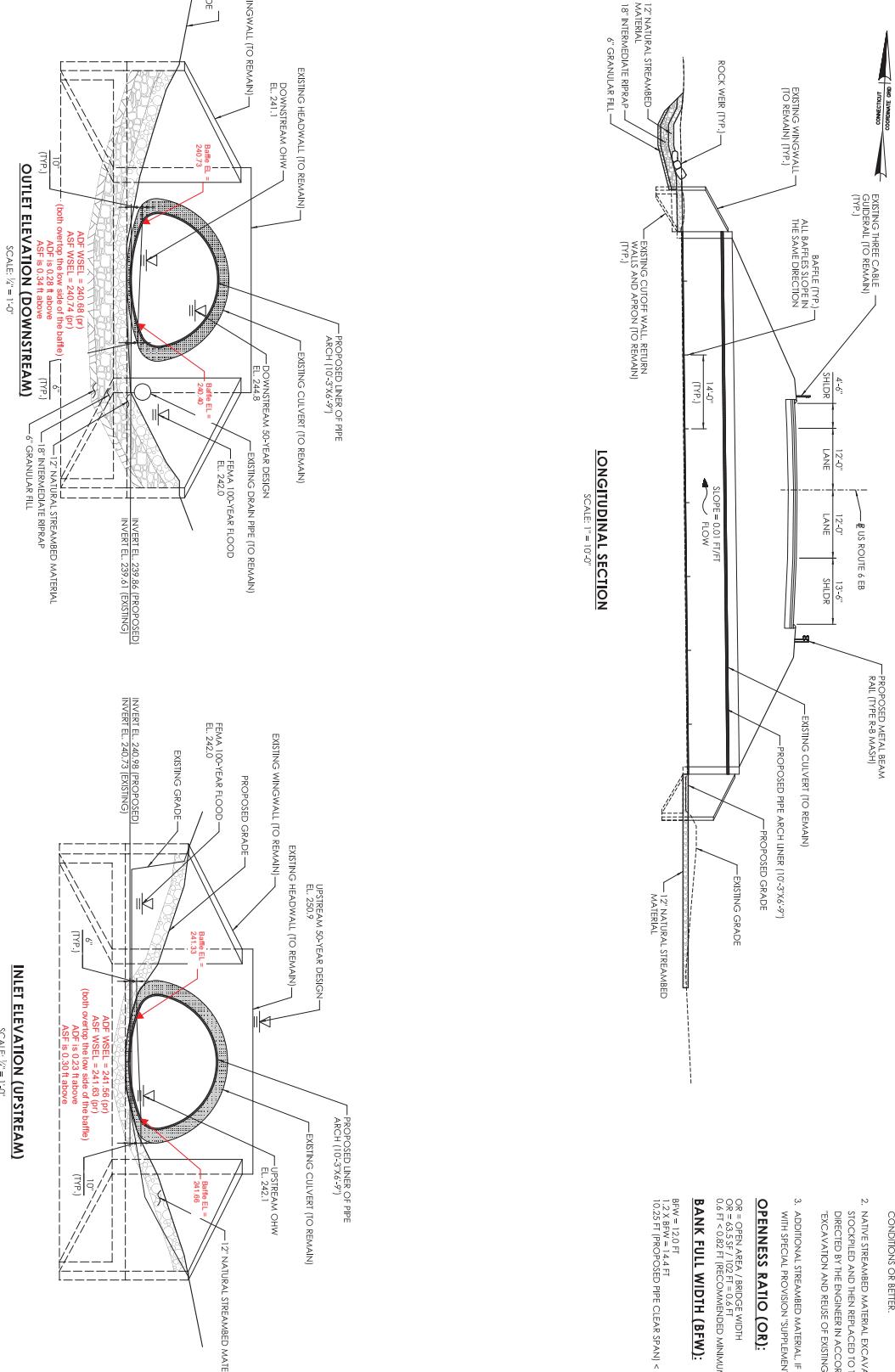
ENVIRONMENTAL PERMIT PLANS	REVISION
PLAN DATE: 02/27/2024	0

REV.	DATE	REVISION
0	02/27/2024	0

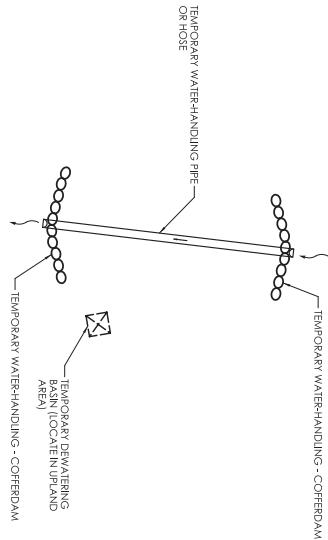
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GEF	GEF	02/27/2024

100-YEAR FLOODPLAIN IMPACTS	
CUT AND FILL	
VOLUME IMPACTS	
EXCAVATION IN FEMA FLOODPLAIN	RILL IN FEMA FLOODPLAIN
72 CY	96 CY





		REVISION DESCRIPTION	
REV.	DATE		
		ENVIRONMENTAL PERMIT PLANS	
	02/27/2024	STAMPER/OWNER A/C	CH-A
	CHIEF ENGINEER BY CEP		
		INLET ELEVATION (UPSTREAM)	
		SCALE: 1/4" = 1'-0"	
		 PROJECT NUMBER: 0077-0244 PROJECT DESCRIPTION: CULVERT REINNING OF BRIDGE NO. 06448 CARRYING U.S. ROUTE 6 E.B. OVER UNNAMED BROOK (both outlet, the low side of the bridge) ACT is 0.28 above AST is 0.14 (allowance)	
		OUTLET ELEVATION (DOWNSTREAM)	
		SCALE: 1/4" = 1'-0"	
		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION DRAWINGS TOWNS: MANFIELD DRAWING FILE: ELEVATIONS AND SECTION	



NOT TO SCALE

PROPOSED WATER HANDLING SCHEMATIC

WATER HANDLING NOTES:

1. THE CONTRACTOR SHALL MAINTAIN WATER THROUGH THE TEMPORARY WATER HANDLING SYSTEM AS REQUIRED DURING CONSTRUCTION.
2. A TEMPORARY WATER HANDLING PIPE WITH A DIAMETER OF 12" SHALL BE UTILIZED TO BYPASS A ROAD DURING CONSTRUCTION FOR CLEANING AND PATCHING THE STRUCTURE WHERE NECESSARY.
3. A DEWATERING BASIN SHALL BE ESTABLISHED OUTSIDE OF THE WETLAND LIMITS.
4. TEMPORARY WATER HANDLING COFFERDAM SHALL CONSIST OF AN APPROVED SYSTEM THAT THE CONTRACTOR SELECTION WHICH WILL SAFELY CONVEY WATER FLOWS THROUGH THE CONSTRUCTION AREA SHALL BE ABLE TO SUPPORT CONSTRUCTION ACTIVITY AND SHALL CONFORM TO PERMITS.
5. WATER HANDLING MEASURES SHALL NOT EXCEED IMPACT AREA SHOWN ON THE WETLAND IMPACT SHEET OF THE PRIM PLAN.
6. ANY WATER HANDLING SCHEMATE DICTATED WITHIN THE DEPARTMENTS HANDLING WATER TYPICAL SCHEMATE SHALL BE UTILIZED UNLESS SPECIFICALLY PROHIBITED. A MEANS AND METHOD FOR WATER HANDLING SYSTEM SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER FOR APPROVAL.
7. CONSTRUCTION OF THE PUMP SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR. PUMP SYSTEM PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.

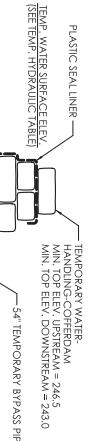
ANY STORM/DRAINAGE DISCHARGING INTO A CONFINED WORK AREA FROM EXISTING OR PROPOSED STORM/DRAINAGE SYSTEMS SHALL BE WORKED OUT WITH THE CONTRACTOR AND BE DRAINED TO A STABLE LOCATION. THE CONTRACTOR SHALL SUBMIT THE MEANS AND METHODS OF HANDLING STORM DRAINAGE TO THE ENGINEER FOR APPROVAL AND IS INCLUDED AS PART OF WATER HANDLING.

IF A PUMP SYSTEM IS PROPOSED CONCERNING THE STRUCTURE DURING LOW FLOW CONDITIONS, THE PUMP SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR. PUMP SYSTEM PLAN

BASED ON FLOW CONDITIONS, WORKING CONDITIONS AND DIRECTIVE FROM THE ENGINEER. THE ENGINEER WILL REVIEW AND APPROVE THE PUMP SYSTEM. THE PUMP SYSTEM SHALL BE RESTRICTED TO THE FEDDO ANY UNCONFINED IN-STREAM WORK WHICH USES A CONFINED PROVISION OF THE ICONE, THE CONDITION SHALL APPLY TO PROJECT IN NON-COASTAL WATERS.

THE DEPARTMENT WILL REVIEW AND MAY APPROVE THE METHODS OF UNCONFINED IN-WATER WORK WITH CONSIDERATION OF THE FOLLOWING:

- PROPOSED SCHEDULE FOR WORK OPERATIONS.
- ALL UNCONFINED IN-WATER WORK SHALL BE MINOR IN NATURE.
- DISTURBANCE SHALL BE IMPOSED TO AREAS THAT HAVE BEEN APPROVED FOR TEMPORARY AND PERMANENT IMPACT.
- BEST MANAGEMENT PRACTICE SHALL BE UTILIZED WHEREVER POSSIBLE TO MINIMIZE TURBIDITY/SEDIMENT TRANSFERS DOWNSTREAM.
- DISTURBED AREAS AND THE DURATION OF DISTURBANCE SHALL BE MINIMIZED TO THE EXTENT POSSIBLE.
- IN-STREAM WORK SHALL BE DONE DURING PERIODS OF LOW FLOW.



NOT TO SCALE

WATER-HANDLING-COFFERDAM CONCEPT
(SANDBAGS)

SUGGESTED SEQUENCE OF CONSTRUCTION

INLET AND OUTLET CONSTRUCTION FOLLOW THE SAME SEQUENCE AND MAY BE PERFORMED CONCURRENTLY AS APPROVED BY THE ENGINEER.

1. PERFORM CLEARING AND GRUBBING, WHERE NECESSARY.
2. INSTALL EROSION AND SEDIMENTATION TEST CONIFERS.
3. INSTALL TEMPORARY EARTH RETAINING SYSTEM AND RETAINING WALL.
4. CONSTRUCT TEMPORARY AND PERMANENT ACCESS ROADS.
5. INSTALL WATER HANDLING.
6. CLEAN AND REPAIR EXISTING PIPE.
7. ASSEMBLE, INSTALL AND GROUT ALUMINUM PLATE ARCH LINER.
8. REMOVE WATER HANDLING.
9. INSTALL ROCK WER.
10. REMOVE TEMPORARY EARTH-RETAINING SYSTEM AND TEMPORARY ACCESS ROADS.
11. PERFORM SITE RESTORATION, FINAL GRADING AND SEEDING.
12. REMOVE E&S CONTROLS UPON FINAL STABILIZATION.

REVISION DESCRIPTION	
REV. DATE	DATE

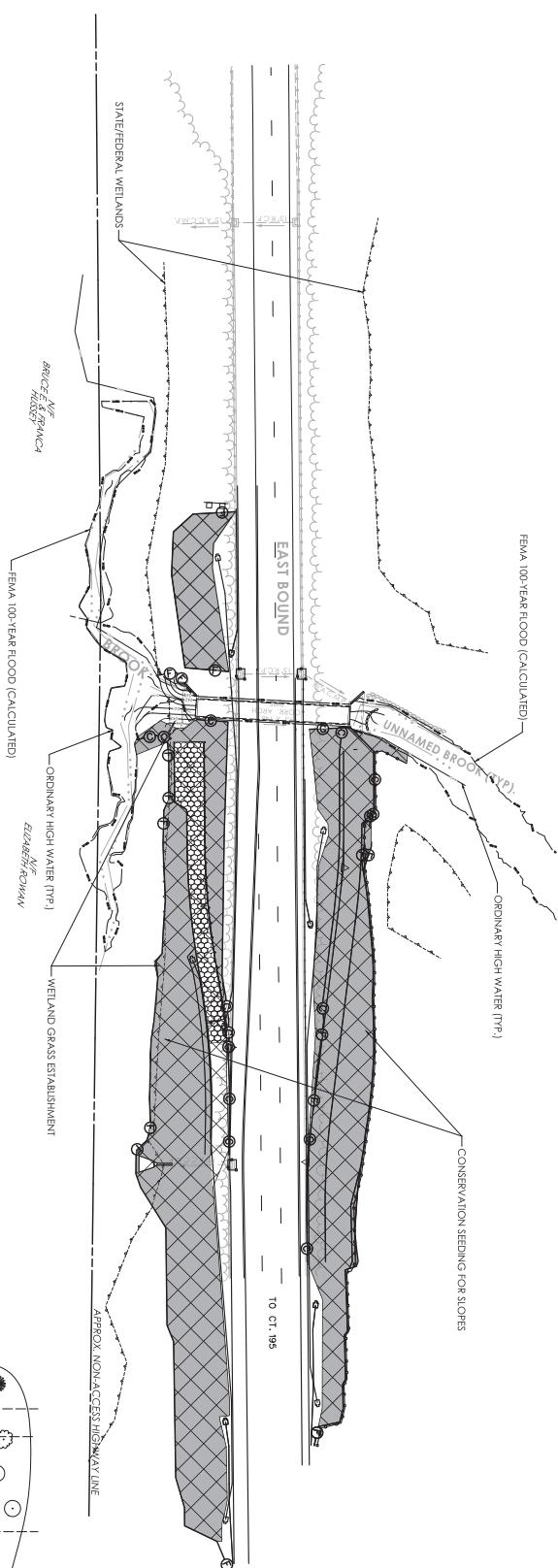
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CHECKED BY: [REDACTED] DATE: 01/20/2024
PRINTED DATE: 01/20/2024

ENVIRONMENTAL PERMIT PLANS	RECORDED
PLAN DATE: 02/27/2024	

SAVED BY: [REDACTED] DATE: 01/20/2024
SAVED BY: [REDACTED] DATE: 01/20/2024
CHECKED BY: [REDACTED] DATE: 01/20/2024
PRINTED DATE: 01/20/2024

NOT TO SCALE

BOTANICAL NAME	COMMON NAME	SIZE	QTY.	SPACING	FIELD LOCATED	WELLAND INDICATOR
<i>Asclepias speciosa</i>	SWAMP MILKWEED	2' PLUG	50		FIELD LOCATED	OB1
<i>Aster biolor</i>	BUTTERFLY MILKWEED	2 PLUG	60		FIELD LOCATED	NI
<i>Viburnum acerifolium</i>	MAPLE LEAF VIBURNUM	2'-3' HT. B.B.	35		FIELD LOCATED	UPL
<i>Comptonia pensylvanica</i>	SWEETFERN	18"-24" HT. B.B.	35		FIELD LOCATED	UPL
<i>Hamamelis virginiana</i>	WITCH HAZEL	18"-24" HT. B.B.	35		FIELD LOCATED	FACU
		TOTAL	215			



SCHEMATIC PLANTING

		REVISION DESCRIPTION	
REV	DATE		
		<p>7. AREA TO BE TREATED FOR INVASIVES AND PROPERLY PREPARED FOR FINAL PLANTING, SEEDING, AND RESTORATION.</p> <p>& THE SOUTHERN CONSTRUCTION ACCESS ROAD WILL REMAIN AFTER CONSTRUCTION AS A MAINTENANCE DRIVE AND WILL NOT BE FULLY RESTORED WITH PLANTINGS.</p>	
		 <p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	
		<p>PROJECT NUMBER: 0077-2024 PROJECT DESCRIPTION: CULVERT REINNING OF BRIDGE NO. 04648 CARRYING U.S. ROUTE 6 EB OVER UNNAMED BROOK DRAWING NUMBER: MANSFIELD</p>	
		<p>DRAWING TITLE: PERMIT PLANTING PLAN</p>	
		 <p>WENZEL, INC.</p>	
		<p>SCHEMATIC PLANTING</p>	
		<p>DRAWING NO. PNT-148 SHEET NO. 1</p>	



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: CT Department of Transportation

Municipality in which the project is occurring: Mansfield

DEEP License No(s): 202303948-IW

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: _____

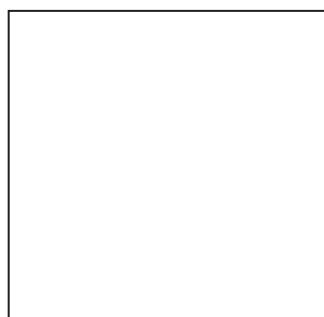
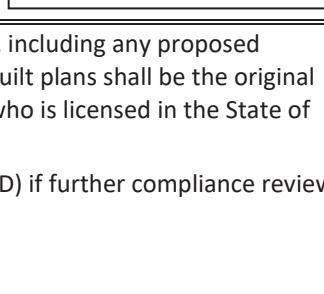
EXPECTED DATE OF COMPLETION OF WORK: _____

LICENSEE: _____
(Signature) _____ (Date) _____



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:	State of Connecticut Department of Transportation	
DEEP License Number(s):	202303948-IW	
Municipality in which project is occurring:	Mansfield	
2. Check one:		
(a)	<input type="checkbox"/> "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)	<input type="checkbox"/> "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		
Name of CT-Licensed Design Professional (print or type)		
Professional License Number (if applicable)		
<ul style="list-style-type: none"> 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		