

Connecticut Department of Energy and Environmental Protection License*

Structures, Dredging & Fill and Tidal Wetlands Permit

Licensee(s): The Connecticut Light and Power Company
d/b/a Eversource Energy

Licensee Address(s): 107 Selden Street
Berlin, CT 06037

License Number(s): 202304621-SDFTW

Municipality: Norwalk

Project Description: Relocation of twin 115kV transmission lines from monopoles and catenaries on the Norwalk Walk Bridge into two parallel conduits beneath the Norwalk River

Project Address/Location: 90 Water St. under Norwalk River to CT-136 & Goldstein Place Intersection

Waters: Norwalk River

Authorizing CT Statute(s) and/or Federal Law: CGS Section 22a-359 to 363g; CGS Section 22a-28 to 35; CGS Section 22a-90 to 112

Applicable Regulations of CT State Agencies: 22a-30-1 to 17

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: *Line 1028 & 1146 Darien-Fitch and Sono-Sherwood 115-kV Underground Transmission Line for Eversource Energy.* Sheets 1-8 prepared by Power Engineers for Eversource. Sheets 1,2,& 4-8 last revised 12/02/2021, sheet 3 last revised 03/11/2019,

*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, Land Record Filings, LWRD Work Commencement Form, LWRD Compliance Certification Form.

Authorized Activities:

The Licensee is hereby authorized to conduct the following work as described in application # 202304621 and as depicted on any site plan sheets / sets cited herein:

Relocate overhead utilities into underground bore holes by:

- a. installing sedimentation and erosion controls;
- b. constructing bore pits in the uplands on either side of the Norwalk River;
- c. creating two 44" bore holes approximately 20' apart;
- d. pulling HDPE conduit and transmission lines through the bore holes and reconnecting to the circuits on the upland on either side of the Norwalk River; and,
- e. restoring work areas and removing sedimentation and erosion controls.

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. **Time-of-Year Restrictions.** Horizontal directional drilling authorized herein is prohibited between June 1st and August 30th, inclusive, of any year in order to protect shellfish resources from potential drilling fluids releases in the area unless otherwise authorized in writing by the Commissioner
3. **Final Plan Approvals.** The Licensee shall provide, at a minimum of 30-days prior to work commencement and for the Commissioner's review and written approval, an updated *Monitoring and Operations Plan, Horizontal Directional Drilling, Norwalk Bridge Transmission Relocation Project; Flood Contingency Plan; and an Inadvertent Release Contingency Plan for Horizontal Directional Drilling* along with the Site- and Contractor-Specific Inadvertent Release Contingency Plan. Copies of the approved plans shall be kept at the drilling entry and exit pit locations at all times to ensure compliance.
4. **Drilling Fluid Release.** In the event of a detectable release of drilling fluid into the Norwalk River, the Licensee shall conduct monitoring for dissolved oxygen, pH, and turbidity levels in the immediate vicinity of the release as well as within a 50' off-set both upriver and downriver of the release point. Such data shall be provided to DEEP Fisheries for review. Based on monitoring results, any habitat remediation shall be conducted in coordination with DEEP Fisheries biologist recommendations.

5. **Performance Bond for Drilling Activities.** Prior to the commencement of the work authorized herein, the Licensee shall post a performance bond or other financial surety in an amount of \$774,000 in favor of the Commissioner in order to secure the performance of all directional drilling work authorized herein in accordance with the terms and conditions of this license. Prior to posting such surety, the Licensee shall submit to the Commissioner for review and written approval the amount, form, and terms of surety. Such surety shall only be released upon completion of the work authorized herein and upon written approval of the Commissioner.

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 pursuant 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

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

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*, 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 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 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.

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

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.



Land Record Filing*

To: DO NOT FILE

Signature and

NOTE: Due to the electronic delivery of this license and the legal requirement to have a live signature on this document, the “Land Record Filing” as detailed in General Condition #1 will be sent to the Licensee via U.S. Mail for the Licensee to file with the city/town clerk.

Date:

Subject: _____
License # _____

If you have any questions pertaining to this matter, please contact the Land & Water Resources Division at 860-424-3019.

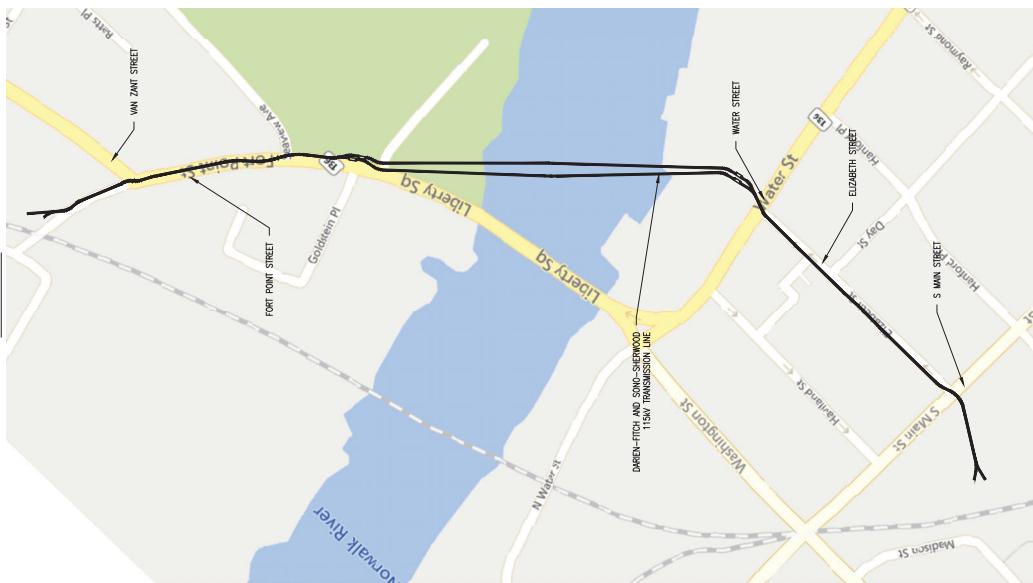
Return to:

Land & Water Resources Division
State of Connecticut
Department of Energy & Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

*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 the Commissioner no later than sixty (60) days after license issuance.

LINE 1028 & 1146 DARIEN-FITCH AND SONO-SHERWOOD 115-KV UNDERGROUND TRANSMISSION LINE FOR EVERSOURCE ENERGY

VICINITY MAP



GENERAL NOTES

1. UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENTAL AGENCIES, FROM PAROL TESTIMONY AND FROM OTHER SOURCES. THESE LOCATIONS MAY NOT BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE. IN THE ABSENCE OF A FENCE, LOCATION MUST BE DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG. 1-800-222-4465.
2. HORIZONTAL DATUM: NAD 83 CONNECTICUT, US SURVEY FOOT; CT STATE PLANE FIPS CODE: 1600, VERTICAL DATUM: NAVD88.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE COMPLETE 115-KV CABLE SYSTEM FROM TERMINATOR TO TERMINATOR.
4. ALL VERTICAL RAIDS ARE 400 UNLESS OTHERWISE NOTED. NO DEVIATIONS ALLOWED FROM DESIGNED HORIZONTAL AND VERTICAL RAIDS UNLESS PRIOR APPROVAL FROM THE ENGINEER IS OBTAINED.
5. MINIMUM CLEARANCE OF 2' 6" OVER GAS LINES, WATER LINES AND A MINIMUM CLEARANCE OF 3' 6" OVER ELECTRIC LINES.
6. DUCT BANK SHALL MAINTAIN A MINIMUM OF 3 FT. COVER OF DEPTH UNLESS SHOWN ON DRAWINGS OR APPROVED BY THE ENGINEER.
7. FOR ANY AREAS DISTURBED BY CONSTRUCTION, AT COMPLETION OF CONSTRUCTION ACTIVITIES, THESE AREAS WILL BE SUBSTANTIALLY RESTORED TO THEIR PRE-CONSTRUCTION CONDITIONS.
8. CONTRACTOR SHALL Haul away all unused excavated material to permitted construction sites.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, REPAIRING, AND STRIPPING ALL PAVEMENT, DRAINS, CURBS, AND SIDEWALKS, DISTURBED DUE TO CONSTRUCTION, IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS. ALL REPAIRS AND REPAIRS SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF NORWALK AND CONDOT STANDARDS AND SPECIFICATIONS.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY ALL UTILITIES AND CONTRACTORS DAMAGED DURING CONSTRUCTION ACCORDING TO THE APPLICABLE CONTRACTS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR STABILIZING EXCAVATED BURIED CONDUIT AS REQUIRED IN ACCORDANCE WITH THE APPLICABLE LOCAL AND/OR STATE REQUIREMENTS. CUT AND CAME ABANDONED UTILITIES DO NOT CUT GAS LINES.
12. DEPTH OF CROSSING UTILITY LATERALS HAVE NOT BEEN VERIFIED ON ALL UTILITIES.
13. DEPARTURES IDENTIFIED AS ABANDONED WERE NOT VERIFIED AND ARE ASSUMED IN DRAWINGS.
14. CONTRACTOR SHALL PLUG ALL CONDUIT SYSTEMS DAILY WHEN WORK IS CEASED.
15. ALL CONDUIT INSTALLATION WORK SHALL BE PERFORMED BY A VALIDATED, LICENSED ELECTRICAL CONTRACTOR, TO BE APPROVED BY EVERSOURCE.
16. REQUIRED CABLE RAISES:

 - STEADY STATE REQUIREMENT: 1,471 A (293 kVA)
 - SUMMER LONG TERM ENERGY (12 HOURS): 1,900 A (378 kVA)
 - SUMMER SHORT TERM ENERGY (15 MINUTES): 2,171 A (432 kVA)
 - 17. 1028 LINE IS A 4.97-MILES TOTAL SINGLE CIRCUIT, 0.67 MILES UNDERGROUND & 4.30 MILES OVERHEAD, 115-KV LINE CONNECTING DARIEN SUBSTATION WITH FITCH SUBSTATION.
 - 18. 1146 LINE IS A 6.46-MILES TOTAL SINGLE CIRCUIT, 0.67 MILES UNDERGROUND & 5.75 MILES OVERHEAD, 115-KV LINE CONNECTING SONO SUBSTATION WITH SONDORRIDGE SUBSTATION. 019-10086-001-007 FOR LINE UNDERGROUND PLAN AND PROFILES.
 - 20. 1028 LINE STRUCTURES:
 - SPLICE VAULT #402 AT STA: 22-07
 - PULL THROUGH VAULT #402 AT STA: 33-89
 - 1146 LINE STRUCTURES:
 - SPLICE VAULT #501 AT STA: 64-24
 - PULL THROUGH VAULT #502 AT STA: 73-77
 - 22. CSC DOCKET: TBO DATE: TBO CSC PERTIN: TBO DATE: TBO DPIC PERTIN: TBO DATE: TBO ACCE: TBO DATE: TBO FAAC DET: SIGNATURE: TBO DATE: TBO REFER TO CONSTRUCTION SPECIFICATIONS 019-0707_DB_SUPPLY_INSTALL_SPEC FOR ADDITIONAL CONSTRUCTION DETAILS.

**POWER
ENGINEERS**
www.powerengineers.com

THREE BUSINESS DAYS BEFORE YOU DIG
CALL 1-800-922-4455
TO FREE
SURVEY ENGINEERING/ROW DEPARTMENT

*FOR CURRENT NUSCO PROPERTY RIGHTS REFER TO
PROPERTY RECORD MAPPING - LOCATED IN TRANSMISSION
SURVEY ENGINEERING/ROW DEPARTMENT

LEGEND

CATCH BASIN	(D)	UNDERGROUND TELEPHONE LINE (SUE-D)
CATCH BASIN AS DEPICTED BY AERIAL	(FAG)	UNDERGROUND FIBER OPTIC (SUE-B)
MAIN BODY	(FC)	UNDERGROUND FIBER OPTIC (SUE-C)
DEPOT	(FCB)	UNDERGROUND TELEVISION LINE (SUE-D)
ELECTRIC HANDHOLE	(TVO)	UNDERGROUND TELEVISION LINE (SUE-D)
DRAIN MANHOLE	(SM)	SEWER MANHOLE
MHN	(SD)	UNDERGROUND DRAIN LINE
MANHOLE AS DEPICTED BY AERIAL	(SD)	BOILER COATED CORRUGATED METAL PIPE
SEWER MANHOLE	(CJ)	BOILER CENTER INVERT
ELECTRIC MANHOLE	(RP)	REINFORCED CONCRETE PIPE
WATER MANHOLE	(PVC)	PVC POLYVINYL CHLORIDE PIPE
WATER GATE	(CP)	DUCTILE IRON PIPE
FREE HYDRANT	(CP)	DUCTILE IRON PIPE
GAS GATE	(CP)	CONCRETE CLAY PIPE
STREET SIGN	(CB)	CATCH BASIN
EDGE OF PAVEMENT	(CBG)	CBG GUARD RAIL
COBBLING	(E)	EDGE LINE
RAILROAD	(E)	REFINING WALL
RAILROAD	(E)	REFINING WALL ELECTRIC LINE (SUE-B)
RAILROAD	(E/C)	UNDERGROUND ELECTRIC LINE (SUE-C)
RAILROAD	(E/D)	UNDERGROUND GAS LINE (SUE-B)
RAILROAD	(E/G)	UNDERGROUND GAS LINE (SUE-C)
RAILROAD	(E/Q)	UNDERGROUND GAS LINE (SUE-D)
RAILROAD	(E/W)	UNDERGROUND WATER LINE (SUE-B)
RAILROAD	(E/WC)	UNDERGROUND WATER LINE (SUE-C)
RAILROAD	(E/WD)	UNDERGROUND WATER LINE (SUE-D)
RAILROAD	(TC)	UNDERGROUND TELEPHONE LINE (SUE-C)

ISSUED FOR PERMIT

DARIEN-FITCH AND SONO-SHERWOOD CONNECTICUT DEP. AND WATER RESOURCES DIVISION FORM ST. JCS 1B	
LWRD PERMIT SET COVER SHEET	
NORMAN, CONNECTICUT	
Permit No.	1028-13
Date Issued	10/27/2021
Date Expired	10/27/2021
Permit Type	LWRD
Permit Holder	EVERSOURCE ENERGY
Permit Status	Active
Comments	REVISIONS DURING CONSTRUCTION
Signature	[Signature]
Print Name	[Name]
Title	[Title]
Phone Number	[Phone]
Fax Number	[Fax]
Email Address	[Email]
Comments	[Comments]

DARIEN-FITCH AND SONO-SHERWOOD CONNECTICUT DEP. AND WATER RESOURCES DIVISION FORM ST. JCS 1B					
LWRD PERMIT SET (CONT'D) AND NO. OF REVISIONS SINCE FORM ST. JCS 1B					
No.	Date	Description	Rev.	Date	Rev.
-	-	-	-	-	-
No.	Date	Description	Rev.	Date	Rev.
-	-	-	-	-	-
No.	Date	Description	Rev.	Date	Rev.
-	-	-	-	-	-
404243/1028-13					
SHEET 1 OF 8					

CONSTRUCTION SEQUENCING

THE FOLLOWING SUGGESTED SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES ARE BASED UPON ENGINEERING JUDGEMENT AND BEST MANAGEMENT PRACTICES. THE CONTRACTOR MAY ELECT TO ALTER THE SEQUENCING TO BEST MEET THE CONSTRUCTION SCHEDULE, THE EXISTING SITE CONDITIONS, AND UNFORESEEN CONDITIONS.

1.1 DUCT BANK AND VAULTS SUGGESTED CONSTRUCTION SEQUENCE

SOME OF THE SUGGESTED SEQUENCE OF WORK BELOW MAY TAKE PLACE MULTIPLE TIMES AT DIFFERENT LOCATIONS BASED ON A PHASED CONSTRUCTION APPROACH, MAINLY FOR THE INSTALLATION OF THE DUCT BANK AND VAULTS. ADDITIONALLY, SPECIFIC CONSTRUCTION SEQUENCING IS REQUIRED FOR THE NORWALK RIVER HDD (SEE SECTION 3.2), THE GENERAL CONSTRUCTION SEQUENCE IS SUMMARIZED BELOW:

- CONDUCT A PRE-CONSTRUCTION MEETING TO DISCUSS THE PROPOSED WORK AND EROSION AND SEDIMENTATION CONTROL MEASURES. THE GENERAL CONTRACTOR, DESIGNATED SUB-CONTRACTORS AND THE PERSON, OR PERSONS, RESPONSIBLE FOR THE IMPLEMENTATION, OPERATION, MONITORING AND MAINTENANCE OF THE EROSION AND SEDIMENTATION MEASURES, THE CONSTRUCTION PROCEDURES FOR THE ENTIRE PROJECT SHALL BE REVIEWED AT THIS MEETING.
- CONSTRUCTION STAKING.
- INSTALLATION OF TEMPORARY TRAFFIC CONTROL MEASURES.
- INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES. THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES WILL INCLUDE, BUT NOT BE LIMITED TO, SILT FENCE, FILTER SOCKS, INLET PROTECTION, CONSTRUCTION ENTRANCES, ETC. PREPARATION OF STAGING AND LAYDOWN AREAS.
- TRENCHING AND GRUBBING, WHERE REQUIRED.
- MARK OUT UTILITIES WITHIN THE PROJECT CORRIDOR.
- SPADE/PULL THROUGH VAULT INSTALLATION, BACK FILL AND FLAMMABLE FILL PLACEMENT, AND TEMPORARY PAVEMENT/LANDSCAPE RESTORATION.
- COMMUNICATIONS VAULT INSTALLATION, BACK FILL AND FLAMMABLE FILL PLACEMENT, AND TEMPORARY PAVEMENT/LANDSCAPE RESTORATION.
- DUCT BANK INSTALLATION, FLAMMABLE FILL PLACEMENT, AND TEMPORARY PAVEMENT RESTORATION.
- CABLE INSTALLATION INCLUDING CABLE PULING AND SPLAVING.
- TESTING AND INTERCONNECTION.
- FINAL OFF-Roadway RESTORATION.
- REMOVE ALL EROSION AND SEDIMENTATION CONTROLS AND CLEAN UP ONCE CONSTRUCTION AREAS HAVE BEEN DEEMED PERMANENTLY STABILIZED.
- FILE "NOTICE OF TERMINATION FORM".

1.2 NORWALK RIVER HDD SUGGESTED SUB-CONSTRUCTION SEQUENCE

THE FOLLOWING SUGGESTED SEQUENCE OF HORIZONTAL DIRECTIONAL DRILLING (HDD) AND TRANSMISSION LINE INSTALLATION ACTIVITIES IS PROJECTED BASED UPON ENGINEERING JUDGEMENT AND BEST MANAGEMENT PRACTICES. THE CONTRACTOR MAY ELECT TO ALTER THE SEQUENCING TO BEST MEET THE CONSTRUCTION SCHEDULE, THE EXISTING SITE CONDITIONS, WEATHER CONDITIONS, AND UNFORESEEN CONDITIONS.

- CONDUCT A PRE-CONSTRUCTION MEETING TO DISCUSS THE PROPOSED WORK AND EROSION AND SEDIMENTATION CONTROL MEASURES. THE GENERAL CONTRACTOR, DESIGNATED SUB-CONTRACTORS AND THE PERSON, OR PERSONS, RESPONSIBLE FOR THE IMPLEMENTATION, OPERATION, MONITORING AND MAINTENANCE OF THE EROSION AND SEDIMENTATION MEASURES, THE CONSTRUCTION PROCEDURES FOR THE ENTIRE PROJECT SHALL BE REVIEWED AT THIS MEETING. THIS INCLUDES THE INADVERTENT RETURN (FRAC-OUT) CONTINGENCY PLAN PREPARED FOR THE PROJECT.
- MARK OUT ALL UTILITIES WITHIN THE PROJECT SCOPE.
- PREPARE STAGING, LAYDOWN, AND WORK AREAS.
- REMOVE EXISTING IMPROVEMENTS AS NECESSARY AND PROVIDE MINIMAL CLEARING AND GRUBBING TO INSTALL THE REQUIRED EROSION AND SEDIMENTATION MEASURES.
- INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES AND CONSTRUCTION STAGING.
- UTILIZE THE TEMPORARY EASEMENT TO CONDUCT FUSING, STAGING AND STRUNG OUT OF THE HIGH-DENSITY POLYETHYLENE CONDUITS.
- EXCAVATE BORE PATHS.
- INSTALL ALL CONTINGENCY MEASURES TO MITIGATE ANY INADVERTENT RELEASE OF FLUIDS.
- SET DRILLING RIG ON THE WEST SIDE OF THE RIVER AS INDICATED ON THE PLANS.
- BORE HOLES.
- BACK REAM BOREHOLE TO SIZE, MULTIPLE PASSES MAY BE NECESSARY.
- ATTACH ROBBER TO DRILL STRING AND SWAB BOREHOLE.
- INSTALL CONDUIT BUNDLE.
- INSTALL TWO UNDERGROUND SPLICE VALVES ON EACH SIDE OF THE RIVER.
- INSTALL COOPER GROUND CABLE AND GROUND RODS.
- CONNECT THE GROUNDING GRID TO THE UNDERGROUND SPLICING VAULT.
- CONNECT THE ADFE DUCTS AND PVC DUCTS INTO UNDERGROUND SPLICING VAULTS.
- INSTALL APPROPRIATE APERTURES WITHIN THE UNDERGROUND SPLICING VAULT.
- INSTALL A PULING HAND (PH) FOR EACH CIRCUIT INSTALLED.

*FOR CURRENT EVERSOURCE PROPERTY RIGHTS REFER TO PROPERTY RECORD MAPPING – LOCATED IN TRANSMISSION SURVEY ENGINEERING/ROW DEPARTMENT

ISSUED FOR PERMIT



REVISIONS DURING CONSTRUCTION															
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<i>(Large grid for tracking revisions)</i>															

DARIEN-FITCH AND SONO-SHERWOOD CONNECTICUT DEEP AND WATER RESOURCES DIVISION PERMIT SET LWRD CONSTRUCTION SEQUENCING AND NOTES						
Name:	EVS	Date:	10/27/2021	Permit No.:	100-00000000000000	Expiry Date:
Address:	100 Main St	Phone:	(203) 355-1531	Fee:	\$0	Comments:
City:	NORWALK	State:	CT	County:	NEW HAVEN	
Zip:	06851			Permit Type:	ST	
Date Issued:	10/27/2021			Permit Number:	46424351	
Comments:	<i>(Large area for notes)</i>					

SHEET 2 OF 8

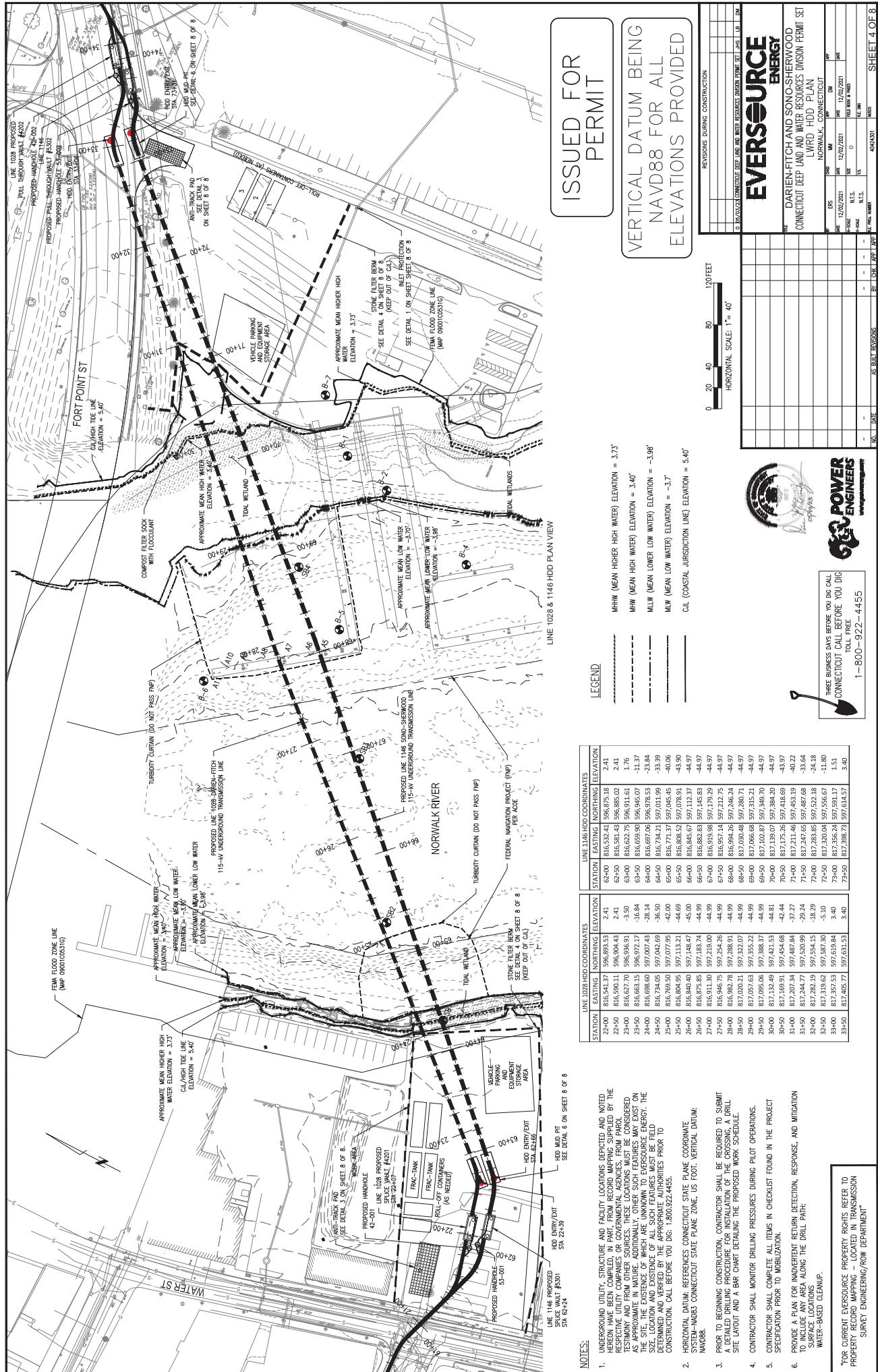
1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL*, CDEEP BULLETIN NO. 54, AND ALL AMENDMENTS AND ADDENDA THERETO AS PUBLISHED BY THE CT DEEP. ADDITIONALLY, THE CONTRACTOR SHALL ABIDE BY EVERSOURCE'S CONSTRUCTION & MAINTENANCE ENVIRONMENTAL REQUIREMENTS AND BEST MANAGEMENT PRACTICES MANUAL FOR MASSACHUSETTS AND CONNECTICUT, DATED SEPTEMBER 2016 (BMP MANUAL). WHICHEVER IS MORE STRINGENT SHALL APPLY.

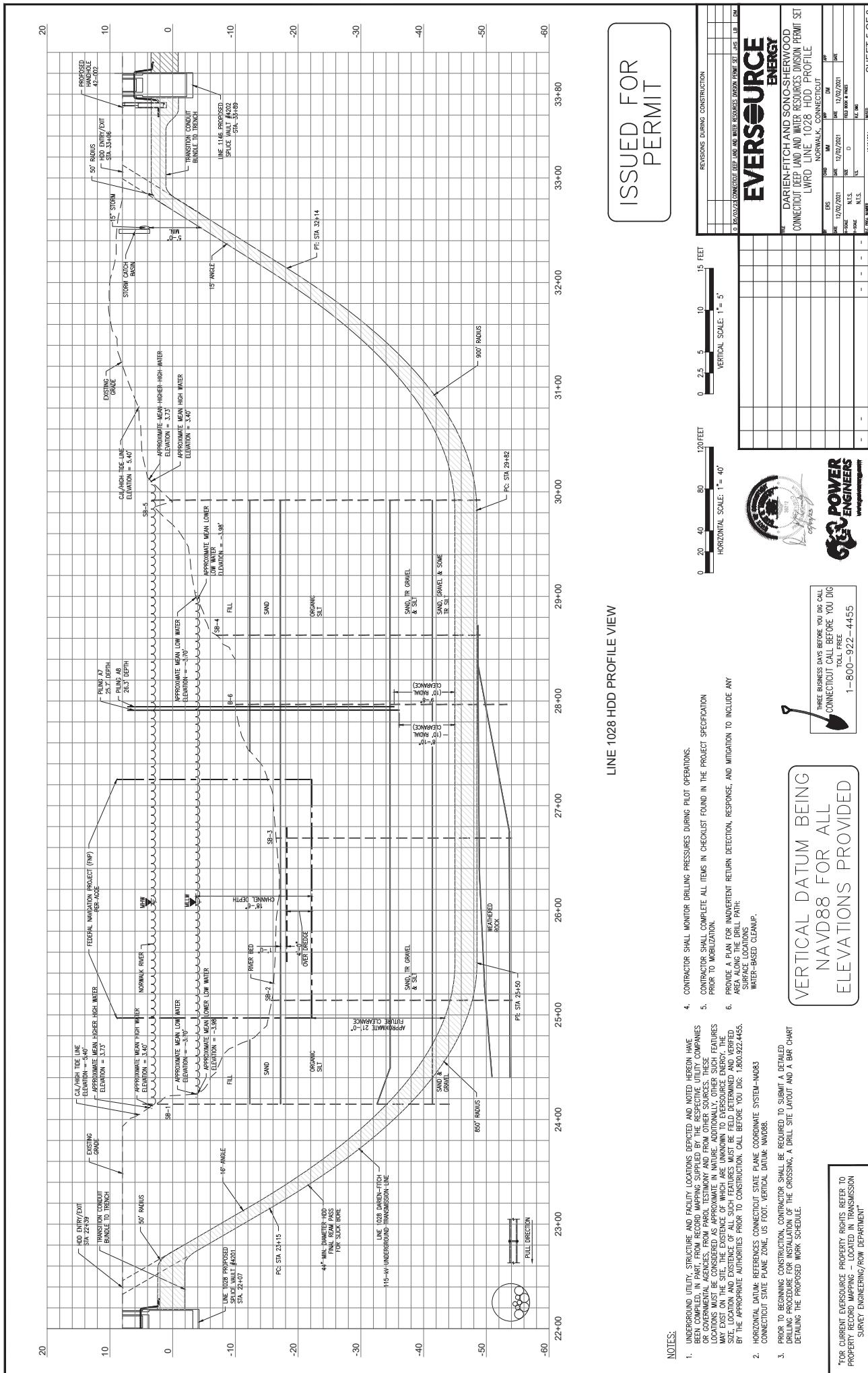
2. LAND DISTURBANCE SHALL BE KEPT TO THE MINIMUM NECESSARY FOR CONSTRUCTION OPERATIONS.
3. INSTALL ALL CONTROL MEASURES AS SHOWN ON THE PLANS. TO PREVENT SOIL EROSION AND SEDIMENT TRANSPORT TO RESOURCE AREAS, ADDITIONAL CONTROLS NOT DEPICTED ON THE PLANS MAY BE NECESSARY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASSESS THE NEED FOR AND INSTALL ADDITIONAL CONTROLS THAT ARE WARRANTED BY SITE CONDITIONS.
4. INSPECT AND MAINTAIN CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD. INSPECTIONS SHALL BE CONDUCTED AFTER EACH RAINSTORM AND DURING MAJOR STORM EVENTS TO DETERMINE IF ALL CONTROL MEASURES ARE ADEQUATELY IN PLACE AND EFFECTIVE, AS REQUIRED BY THE GENERAL PERMIT.
5. EXCAVATED SOIL THAT CANNOT BE REUSED (MAINLY IN AREAS OF THE DUCT BANK AND VAULT INSTALLATION) WILL BE LOAD-COATED INTO TRAILERS AND TRANSPORTED TO A LICENSED, THIRD-PARTY LOCATION FOR TESTING AND DISPOSAL.
6. IN ACCORDANCE WITH THE PROJECT SPECIFICATION, PERMANENT STABILIZATION OF OPEN SOIL SURFACES WILL BE IMPLEMENTED WITHIN SEVEN (7) DAYS AFTER GRADING, OR CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, UNLESS WEATHER PROHIBITS SEED GERMINATION. IN WHICH CASE TEMPORARY STABILIZATION MEASURES WILL BE IMPLEMENTED.
7. WHERE NECESSARY, IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, SUITABLE TOPSOIL, SEEDBED PREPARATION, AND WATER SHALL BE PROVIDED FOR EFFECTIVE ESTABLISHMENT OF VEGETATIVE COVER.
8. THE CONSTRUCTION CONTRACTOR SHALL KEEP ALL PAVED ROADWAYS CLEAN OF POSSIBLE CONSTRUCTION DEBRIS.
9. INSPECT AND MAINTAIN TEMPORARY EROSION AND SEDIMENTATION CONTROLS UNTIL RESTORATION HAS BEEN DETERMINED TO BE EFFECTIVE AS DEFERRED BY CONFORMANCE TO THE CDEEP GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEINTERING WASTEWATERS ASSOCIATED WITH CONSTRUCTION ACTIVITIES.

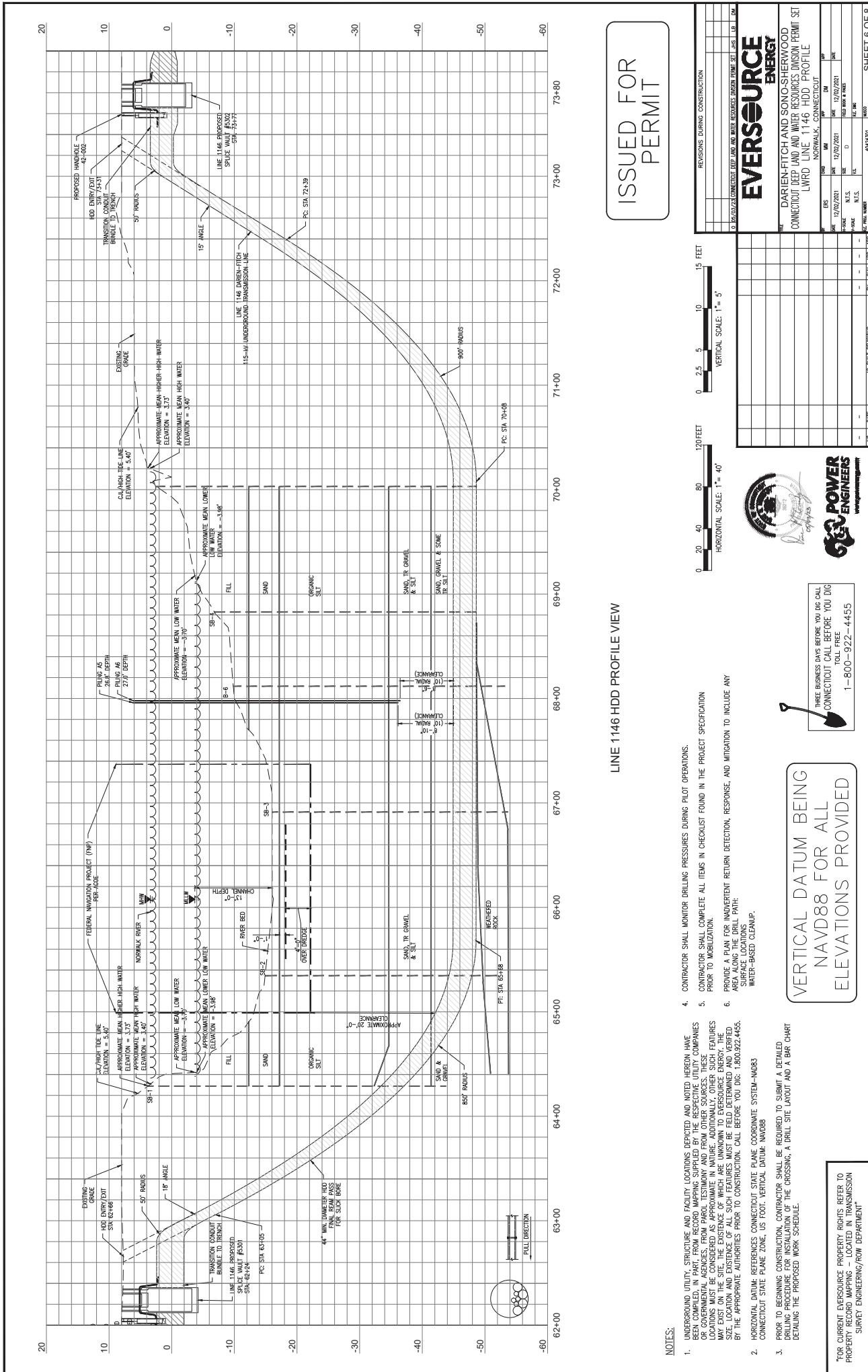


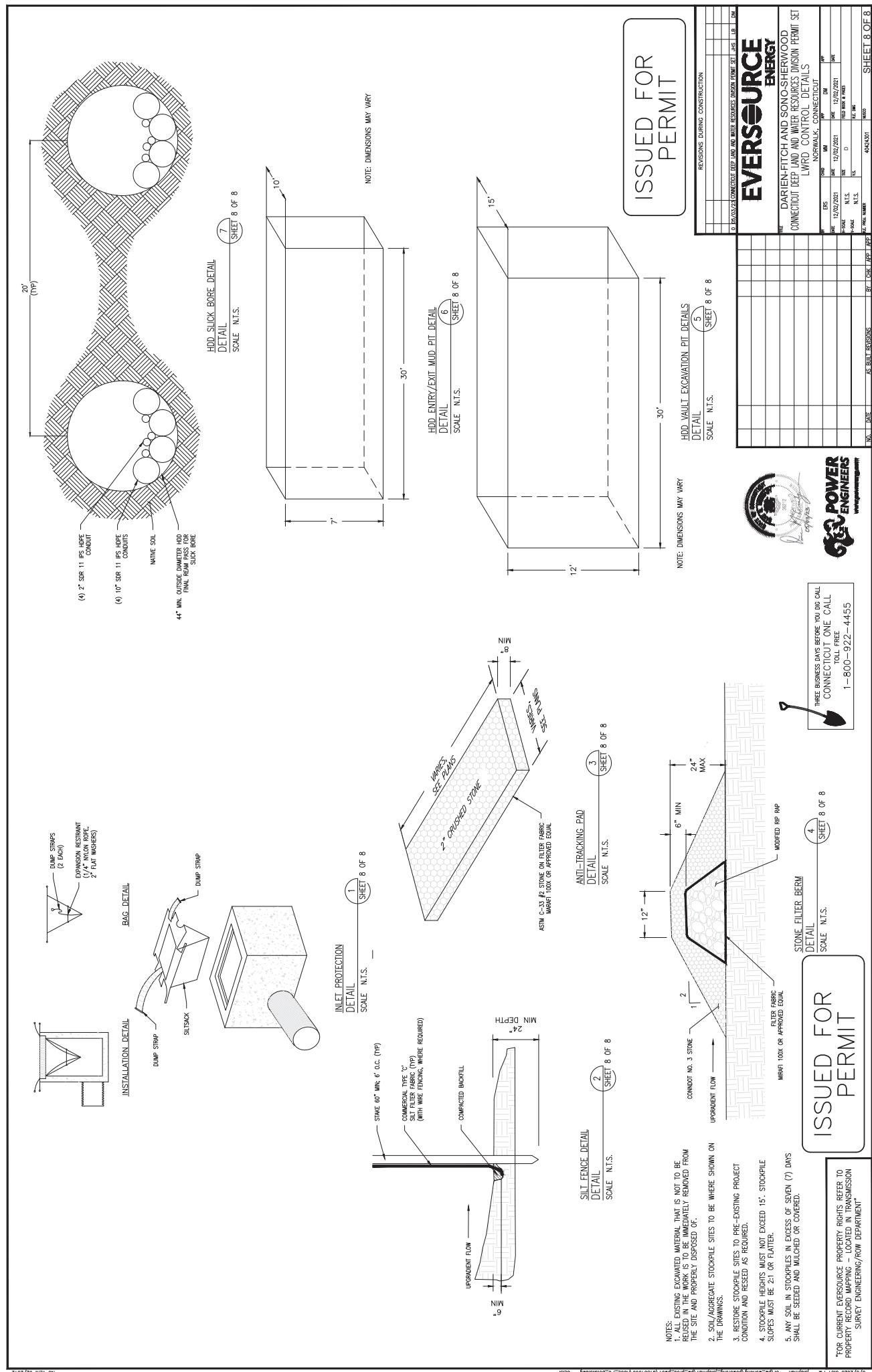
three business days before you dig
call before you dig!
1-800-922-4455













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: The Connecticut Light and Power Company d/b/a Eversource Energy
Municipality in which the project is occurring: Norwalk
DEEP License No(s): 202304621-SDFTW

CONTRACTOR(s):

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

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

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

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: <u>The Connecticut Light and Power Company d/b/a Eversource Energy</u> DEEP License Number(s): <u>202304621-SDFTW</u> Municipality in which project is occurring: <u>Norwalk</u>	
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	Date
Name of CT-Licensed Design Professional (print or type)	
Professional License Number (if applicable)	Affix Stamp Here
<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 : <u>DEEP.LWRDRegulatory@ct.gov</u> or Regulatory Section Department of Energy and Environmental Protection Land & Water Resources Division 79 Elm Street Hartford, CT 06106-5127	