



Connecticut Department of Energy and Environmental Protection License*

Section 401 Water Quality Certification Non-Consumptive Water Diversion Permit

Licensee(s): Town of Fairfield, Engineering
Manager

Licensee Address(s): 725 Old Post Road
Fairfield CT 06824

License Number(s): 202207841-WQC / 202207842-DIV

Municipality: Fairfield

Project Description: Construct two berms for flood control

Project Address/Location: 2390 Easton Turnpike

Waters: Londons Brook

**Authorizing CT Statute(s)
and/or Federal Law:** Section 401 CWA (33 USC 1341); CGS Section 22a-365 to 379

**Applicable Regulations of
CT State Agencies:** 22a-426-1 to 9, 22a-372-1, 22a-377(b)-1, (c)-1, (c)-2

Agency Contact: Land & Water Resources Division,
Bureau of Water Protection & Land Reuse, 860-424-3019

License Expiration: 401 WQC, upon expiration of the U.S. Army Corps of Engineers
Section 404 permit for the same activity; and Diversion, five (5)
years from the date of issuance of this license.

Project Site Plan Set: 11 sheets titled: *Fairchild Wheeler Country Club (Site 7)*, dated
June 10, 2022 with sheet three revised November 9, 2023, and
sheet 6 revised August 9, 2023, and prepared by SLR

*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 Work Commencement Form; LWRD Compliance Certification Form; Mitigation Memo

Authorized Activities:

The Licensee is hereby authorized to conduct the following work as described in application # 202207841-WQC / 202207842-DIV and as depicted on any site plan sheets / sets cited herein:

The proposed project will affect permanently 10,075 square feet of wetlands and 2,925 square feet of watercourse and temporary 1,960 square feet of wetlands and 151 linear feet of watercourse.

1. Construct a 9.5' high berm that is approximately 75' wide and approximately 300 linear feet with a 20' wide X 90' long concrete weir control structure.
2. Construct a 6' high berm that is approximately 70' wide and approximately 500 linear feet with a 20' wide (average) X 64' long concrete weir control structure.

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. **Water Handling.** If final water handling varies from that shown on the plans approved herein, the Permittee 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.
3. **Wetland Delineation and Demarcation.** Prior to construction commencement, the Licensee shall demarcate, by use of silt fence, hay bales, and/ or construction fence, the limits of wetlands located within 25 feet of any proposed construction area. Any work, vehicular / pedestrian passage, equipment staging, or material storage not shown on the above noted plans shall be prohibited within these limits to prevent any aquatic resource impacts. Any such demarcation material should be capable of withstanding daily flows and shall be maintained in optimal operating condition until project completion, at which time fencing and erosion controls shall be removed to an upland location.
4. **Letter of Map Revision.** The Town of Fairfield shall be responsible for applying for a Map Revision from FEMA for those activities which will affect the hydrologic or hydraulic characteristics of Londons Brook and thus result in the modification of the existing regulatory floodway, the effective Base Flood Elevations, or the Special Flood Hazard Area. This FEMA Map Revision shall be applied for prior to the commencement of construction activities.
5. **Wetland and Habitat Mitigation.** The Licensee shall conduct approximately 45,552 square feet of wetland mitigation as detailed in plan sheet 6 titled *Wetland Replanting Areas*, dated June 29, 2023 and revised through August 9, 2023 and a Technical Memorandum dated August 2, 2013, both prepared by SLR and attached hereto. Planting

shall be completed between April 1st and September 30th of the year following the completion of site work unless otherwise authorized in writing by the Commissioner.

6. **Mitigation Monitoring Report.** The Licensee shall submit, annually, for a minimum of five years or until the performance standards are met, a Wetland Mitigation Monitoring Report. Such report shall be submitted to DEEP.LWRDRegulatory@ct.gov by December 15th of each year following the mitigation. The reports shall include: photos; documentation of work conducted in mitigation areas; and, status of meeting performance standards.
7. **Mitigation Site Protection.** Within 60 days of license issuance, the Licensee shall submit, for the Commissioner's review and written approval, a plan for the long-term protection of the mitigation area. Such plan shall be implemented within six months of approval unless otherwise approved in writing by the Commissioner.

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 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.

FAIRCHILD WHEELER COUNTRY CLUB FLOODWATER DETENTION SYSTEM (SITE 7)

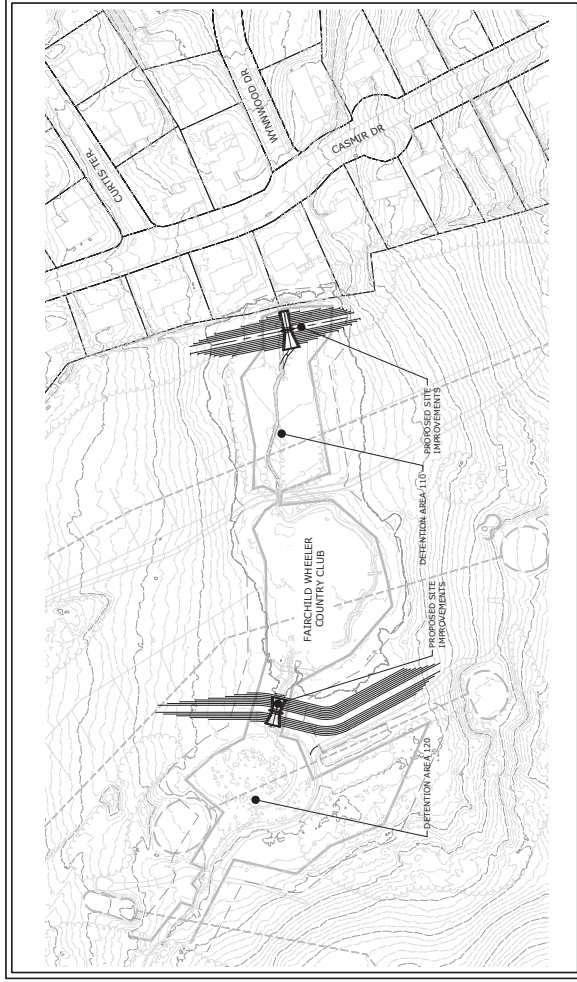
PRELIMINARY DESIGN (60%)

2390 EASTON TURNPIKE
FAIRFIELD, CONNECTICUT

1342-28

JUNE 10, 2022

REVISED: AUGUST 9, 2023



PROJECT SITE VICINITY MAP:



PREPARED BY:



LIST OF DRAWINGS

NO.	NAME	TITLE	SHEET
1	AERIAL	SITE AERIAL PHOTO	
2	SM	SITE MAP	
3	DP	DEFINITION AREA 120 & 110 PLAN	
4	CP	DEFINITION AREA 110 OVERCROPPING PROTECTION	
5	WR	WETLAND REPLANTING AREAS	
6	SD-1	SITE DETAILS	
7	SD-2	SITE DETAILS	
8	STR-01	STRUCTURAL DETAILS	
9	STR-02	STRUCTURAL DETAILS	
10	STR-03	STRUCTURAL DETAILS	

PREPARED FOR:

TOWN OF FAIRFIELD
611 OLD POST ROAD
FAIRFIELD, CT 06824

GENERAL NOTES

1. THE DESIGN AND CONSTRUCTION OF THIS DETENTION SYSTEM SHALL BE THE RESPONSIBILITY OF THE OWNER.
2. THE DESIGNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE TOWN OF FAIRFIELD AND THE STATE OF CONNECTICUT.
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CONSTRUCTION SEQUENCE

1. PREPARE CONSTRUCTION SEQUENCE AND CONSTRUCTION SCHEDULE. THE SEQUENCE SHALL BE THE RESPONSIBILITY OF THE OWNER.
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OPERATION AND MAINTENANCE PLAN
(POST-CONSTRUCTION)

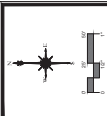
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12. THE DESIGNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE TOWN OF FAIRFIELD AND THE STATE OF CONNECTICUT.
13. THE DESIGNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE TOWN OF FAIRFIELD AND THE STATE OF CONNECTICUT.
14. THE DESIGNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE TOWN OF FAIRFIELD AND THE STATE OF CONNECTICUT.

EARTHWORK SUMMARY:

LOCATION	CUT	FILL	NET
TOTAL SITE	282 C.Y.	4480 C.Y.	4198 C.Y. (FILL)
DEFINITION AREA 120 (SM)	---	158 C.Y.	158 C.Y. (FILL)
DEFINITION AREA 110 (SM)	282 C.Y.	2840 C.Y.	2558 C.Y. (FILL)



Know what's below.
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SLR
 99 MALETTS CREEK
 SUITE 200
 FAIRFIELD, CT 06424
 (203) 253-1100
 SLRCONSULTING.COM

DESCRIPTION	DATE	BY

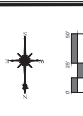
SITE AERIAL PHOTO
 FAIRCHILD WHEELER COUNTRY CLUB
 SITE 7
 2390 EASTON TURNPIKE
 FAIRFIELD, CONNECTICUT

EAH | **SNM** | **EAH**
 PROJECT | DESIGN | LOCATION
 SCALE: 1"=50'
 DATE: JUNE 10, 2023
 PROJECT NO: 1342-28
 SHEET NO: 2 OF 11

AERIAL



BASED ON CONSTRUCTION OF THE GROUND SURFACE. ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL. 1"=50' SCALE. PHOTOGRAPHY COURTESY OF FAIRCHILD WHEELER COUNTRY CLUB. ALL RIGHTS RESERVED.



39 MALET DRIVE
FAIRFIELD, CT 06424
SLRCONSULTING.COM

DATE	BY	DESCRIPTION
11/10/2023	SM	FLOODPLAINING
11/10/2023	SM	WATERCOURSE IMPACTS

DATE: JUNE 10, 2023
PROJECT NO: 1342-28
SHEET NO: 3 OF 11

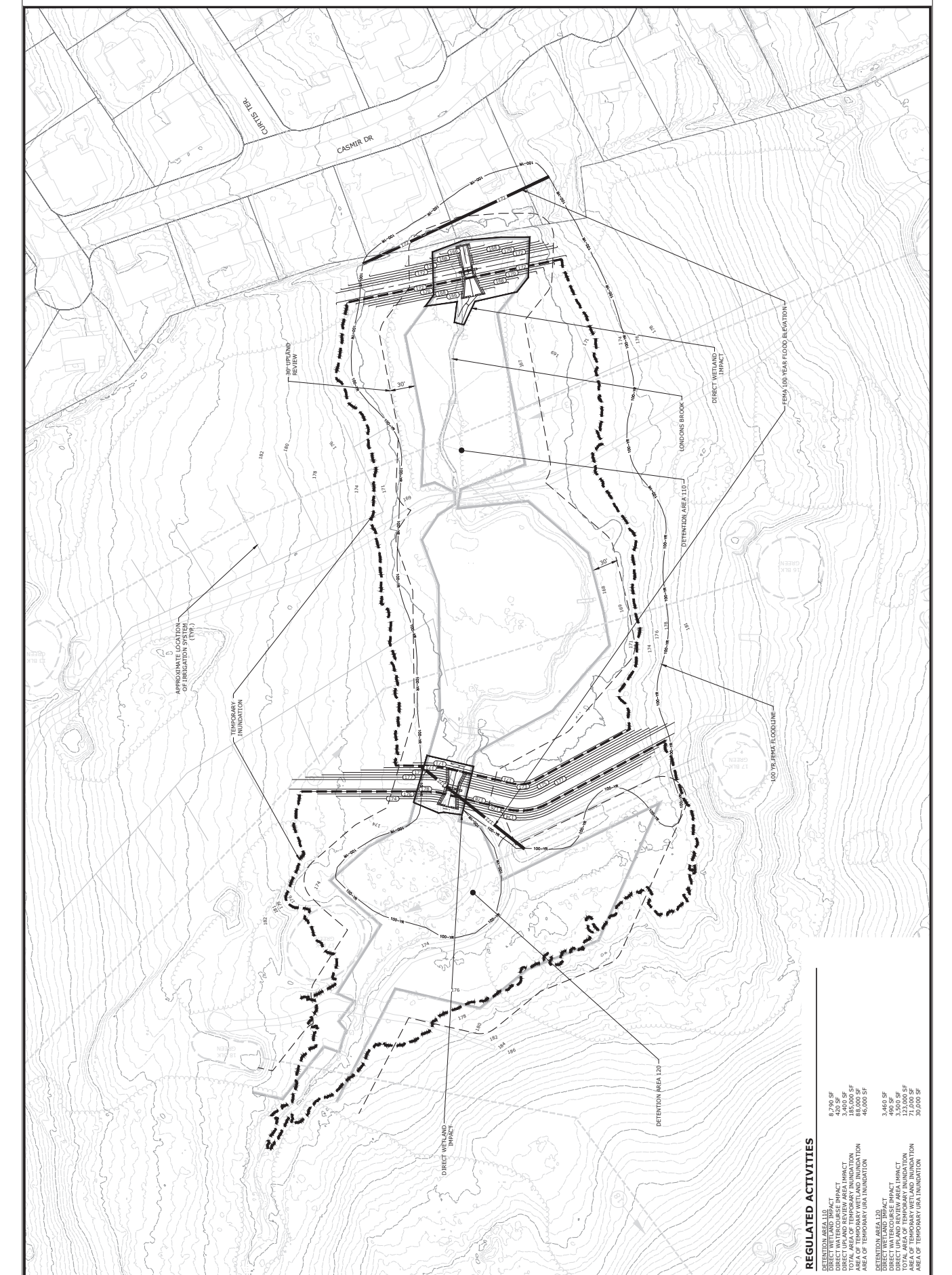
FAIRCHILD WHEELER COUNTRY CLUB
2390 EASTON TURNPIKE
FAIRFIELD, CONNECTICUT

SCALE: 1"=50'
DATE: JUNE 10, 2023
PROJECT NO: 1342-28
SHEET NO: 3 OF 11

DATE: JUNE 10, 2023
PROJECT NO: 1342-28
SHEET NO: 3 OF 11

DATE: JUNE 10, 2023
PROJECT NO: 1342-28
SHEET NO: 3 OF 11

DATE: JUNE 10, 2023
PROJECT NO: 1342-28
SHEET NO: 3 OF 11



REGULATED ACTIVITIES

RETENTION AREA 120	8,790 SF
DIRECT WETLAND IMPACT	140 SF
DIRECT WATERCOURSE IMPACT	185,000 SF
TOTAL AREA OF TEMPORARY INUNDATION	46,000 SF
AREA OF TEMPORARY UICAI INUNDATION	46,000 SF
RETENTION AREA 130	3,460 SF
DIRECT WETLAND IMPACT	190 SF
DIRECT WATERCOURSE IMPACT	123,000 SF
TOTAL AREA OF TEMPORARY INUNDATION	20,000 SF
AREA OF TEMPORARY UICAI INUNDATION	20,000 SF

SLR CONSULTING, INC. 39 MALET DRIVE, FAIRFIELD, CT 06424. TEL: 203.254.1100. FAX: 203.254.1101. WWW.SLRCONSULTING.COM



NO.	DESCRIPTION	DATE	BY

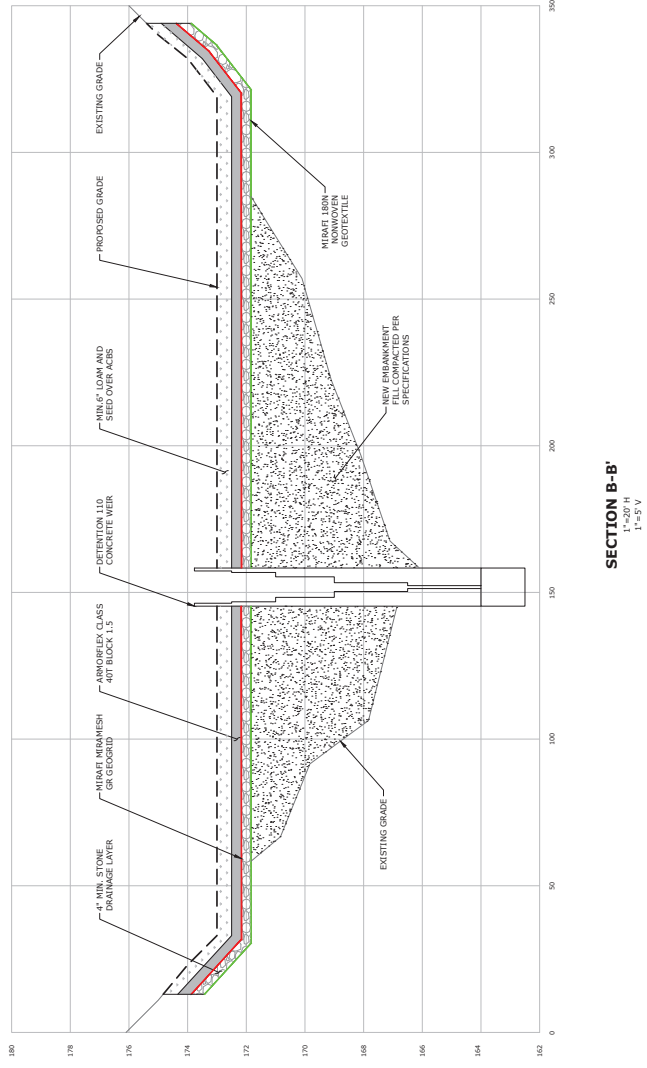
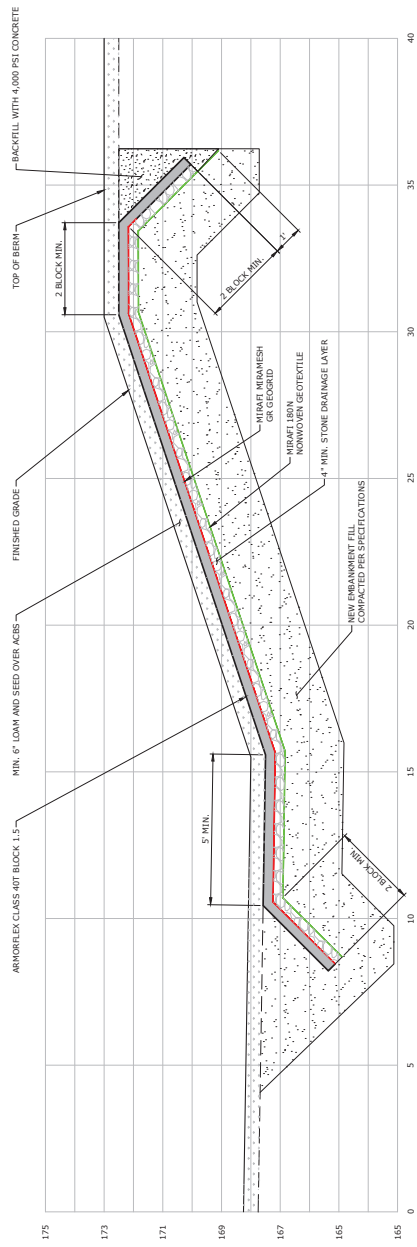
SMN	SMN	EAH
REVISION	DATE	DESCRIPTION

SCALE AS NOTED

 DATE: JUNE 10, 2023

 PROJECT NO: 1342-28

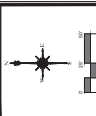
 SHEET NO: 5 OF 11



DRAWN BY: [Name]

 CHECKED BY: [Name]

 DATE: [Date]



DESCRIPTION	DATE	BY

WETLAND REPLANTING AREAS
 FAIRCHILD WHEELER COUNTRY CLUB
 SITE 7
 2300 EASTON TURNPIKE
 FAIRFIELD, CONNECTICUT
 DATE: JUNE 29, 2023
 SCALE: 1"=50'
 SHEET NO: 1342-28
 PROJECT NO: 6 OF 11
 DRAWN BY: WR

WETLAND REPLANTING AREAS

LOCATION	AREA (SF)
1	27,992
2	17,860
TOTAL	45,852

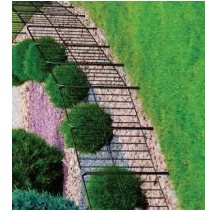
WETLAND REPLANTING SCHEDULE

MITIGATION PLANTINGS: 45,852 sf of

Aster novae-angliae / Sweet Flag	564
Aster novae-angliae / New England Aster	564
Eupatoriadelphus fistulosus / Joe Pye Weed	564
Eupatoriadelphus fistulosus / Joe Pye Weed	564
Iris perfoliata / Saw Flie Iris	329
Iris perfoliata / Saw Flie Iris	329
Scirpus atrovirens / Wood Grass	1,314
Scirpus atrovirens / Wood Grass	1,314
Verbasicum hastata / Blue Vervain	1,314
Verbasicum hastata / Blue Vervain	1,314
Lolium perenne / St. Louis Marsh	25
Cottoneaster arbores / Street Poppyhush	25

MITIGATION NOTES:

1. FUTURE DISTRIBUTION OF VEGETATION WILL BE PREVENTED AND MONITORED TO ENSURE THE RESTORED WETLANDS CONTAIN A MINIMUM OF 80% COVER OF NATIVE WETLAND SPECIES AND LESS THAN 5% COVER OF NON-NATIVE VEGETATION IN THE MITIGATION AREA WILL BE SURVEYED FOR BASELINE PLANT SPECIES TO DEVELOP COMPARISONS OF STANDINGS TO GAUGE TO EFFECTIVENESS OF WETLAND RESTORATION.
2. MONITORING WILL BE CONDUCTED FOR 5 YEARS AND CONTINUE ANNUALLY UNTIL PERFORMANCE STANDARDS ARE MET. FOR EACH CONSTRUCTION OF THE MITIGATION AREAS, THE AREAS WILL BE PROTECTED BY FENCING TO PREVENT SOIL COMPACTION AND CONNECT TO DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CT DEEP). THE MITIGATION AREA WILL BE OPEN (MARCH TO OCTOBER). A POST-CONSTRUCTION ASSESSMENT OF THE MITIGATION AREAS SHALL BE PERFORMED AT THE END OF EACH YEAR. THE PURPOSE OF THE MONITORING IS TO ENSURE THE PROTECTION OF THE RESTORED WETLAND AREA ON LONGONDS FROM FENCING AND SIGAGE WITH CONSERVATION HEADLANDS, DEMARCATING THE RESTORED WETLAND CORRIDOR.



FENCING EXAMPLE



Small text at the bottom left corner of the map, likely a disclaimer or scale information.

GENERAL NOTES
1. SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 818 (2020), INCLUDING JANUARY 2021 SUPPLEMENTS, AND SPECIAL PROVISIONS.
2. DESIGN SPECIFICATIONS: ASHTO LRFD DESIGN SPECIFICATIONS, 9TH EDITION, 2020, AS APPLIED TO BRIDGE DESIGN, INCLUDING THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003) WITH INTERIM REVISIONS UP TO AND INCLUDING 2019.
3. MATERIAL SPECIFICATIONS:
CONCRETE: PCC CLASS PCC 03340
CLASS PCC 04462
FC = 3,000 PSI
FC = 4,000 PSI
THE CONCRETE STRENGTH USED IN DESIGN (FG) OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL BE PORTLAND CEMENT CONCRETE.
REINFORCEMENT:
ASTM A615 GRADE 60
FY = 60,000 PSI
4. LIVE LOAD: 90 PSF PEDESTRIAN LOADING OR ASHTO H5 LOADING WHICHEVER GOVERNS
5. DEAD LOAD: ALL PEDESTRIAN BRIDGE COMPONENTS
6. FUTURE TRAVEL ALLOWANCE: NONE

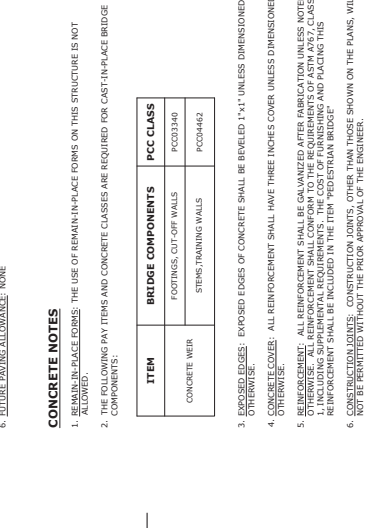
CONCRETE NOTES
1. REMAIN-IN-PLACE JOISTS: THE USE OF REMAIN-IN-PLACE JOISTS ON THIS STRUCTURE IS NOT ALLOWED.
2. THE FOLLOWING PAY ITEMS AND CONCRETE CLASSES ARE REQUIRED FOR CAST-IN-PLACE BRIDGE COMPONENTS:

ITEM	BRIDGE COMPONENTS	PCC CLASS
CONCRETE WEIR	FOOTINGS, CUT-OFF WALLS	PCC03340
	STEMS, TRAINING WALLS	PCC04462

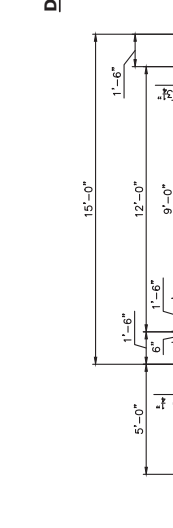
3. EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" X 1" UNLESS DIMENSIONED OTHERWISE.
4. CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE THREE INCHES COVER UNLESS DIMENSIONED OTHERWISE.
5. REINFORCEMENT: ALL REINFORCEMENT SHALL BE GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE. ALL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A677, CLASS 60, AND FINISH SHALL BE GALVANIZED. ALL REINFORCEMENT SHALL BE INCLUDED IN THE TERM "PEDESTRIAN BRIDGE".
6. CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

STRUCTURAL DETAILS
FAIRFIELD WHEELER COUNTRY CLUB
SITE 7
FAIRFIELD, CONNECTICUT
2300 EASTON TURNPIKE
REVISIONS: NONE
DATE: JUNE 10, 2022
PROJECT NO.: 1342-28
SHEET NO.: 9 OF 11

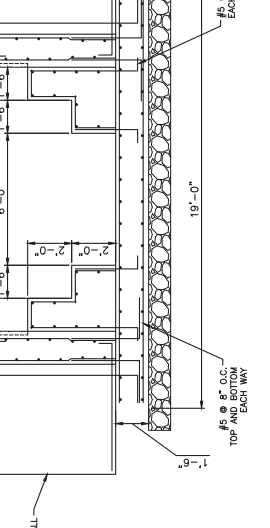
SECTION A
DETENTION 120 CONCRETE WEIR WALL
SCALE 1/4"=1'-0"



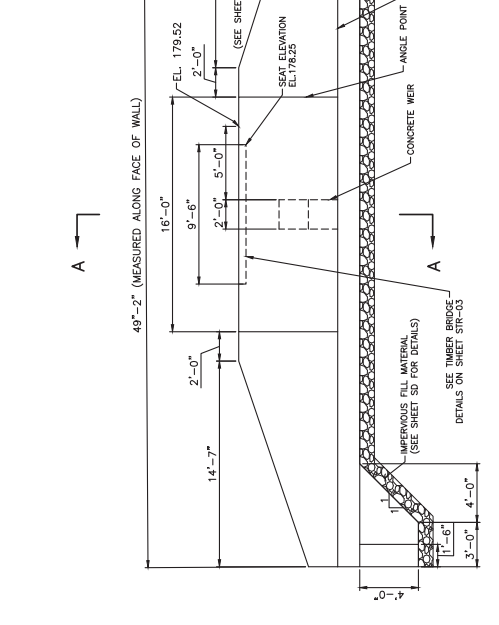
SECTION B
DETENTION 120 CONCRETE WEIR WALL
SCALE 3/8"=1'-0"



SECTION C
TYPICAL TRAINING WALL SECTION
SCALE 3/8"=1'-0"

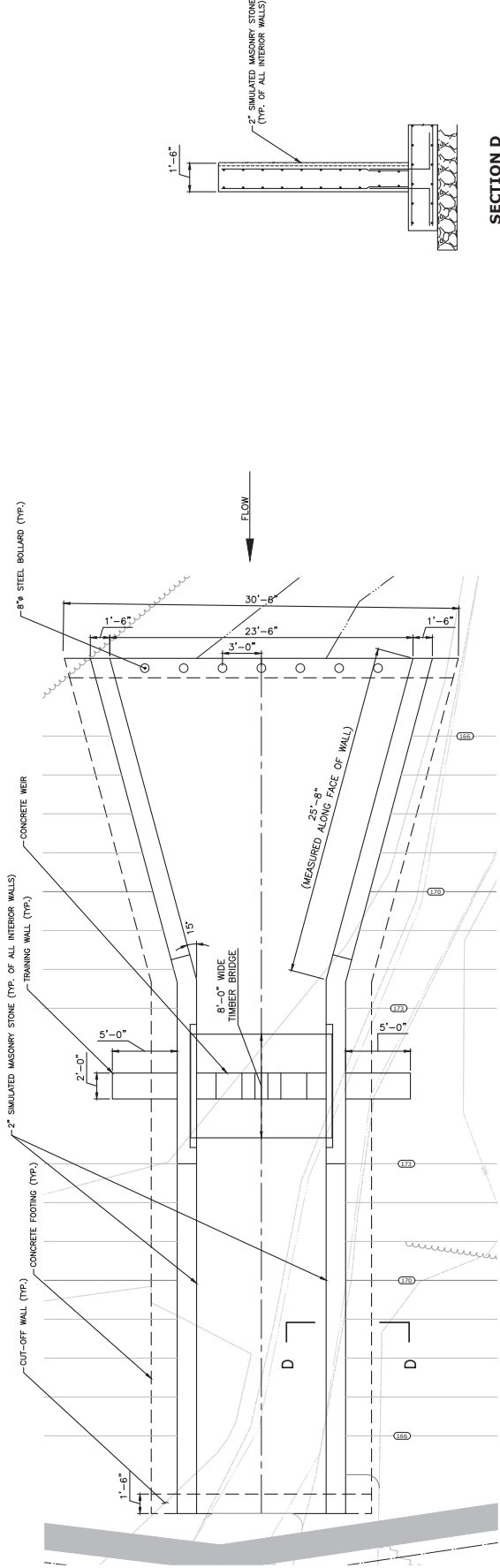


SECTION A
DETENTION 120 CONCRETE WEIR WALL
SCALE 1/4"=1'-0"

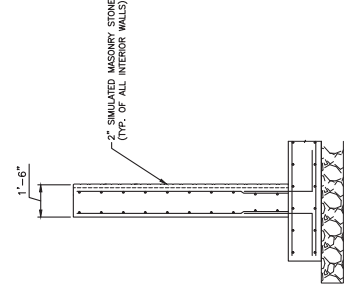


SECTION B
DETENTION 120 CONCRETE WEIR WALL
SCALE 3/8"=1'-0"

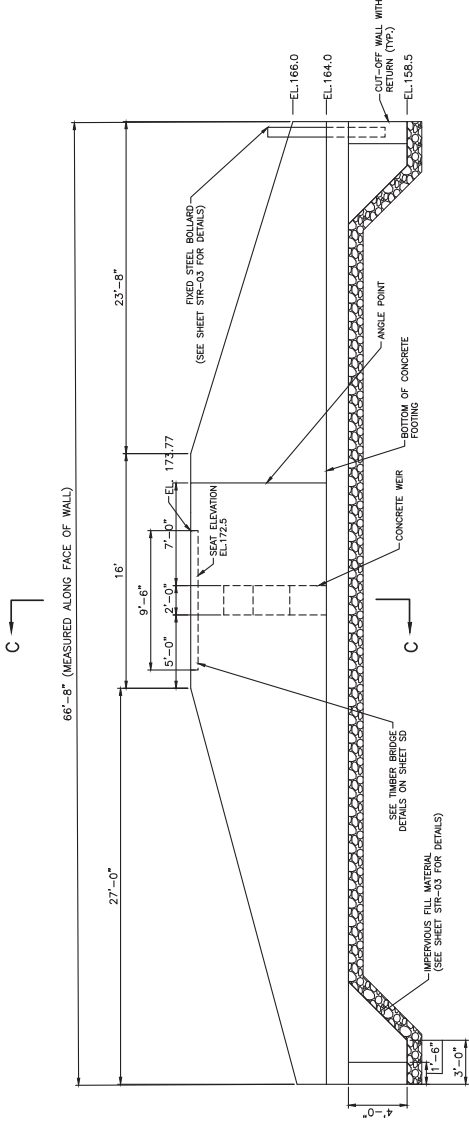
SECTION C
TYPICAL TRAINING WALL SECTION
SCALE 3/8"=1'-0"



PLAN VIEW
SCALE 1/4" = 1'-0"

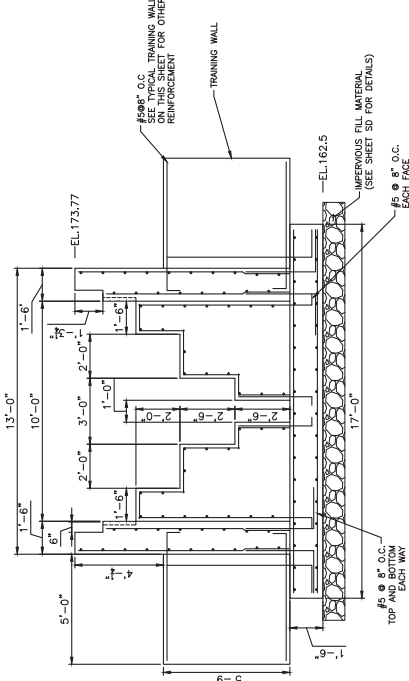


SECTION D
DETENTION 110 CONCRETE WEIR WALL
SCALE 3/8" = 1'-0"



SECTION C
DETENTION 110 CONCRETE WEIR WALL
SCALE 3/8" = 1'-0"

DETENTION 110 CONCRETE WEIR SIDE VIEW
SCALE 1/4" = 1'-0"



STRUCTURAL DETAILS

FAIRCHILD WHEELER COUNTRY CLUB
SITE 7
2300 EASTON TURNPIKE
FAIRFIELD, CONNECTICUT

AS NOTED
REVISIONS

DATE: JUNE 10, 2023
PROJECT NO.: 12414-0001
SHEET NO.: 10 OF 11

STR-02



DESCRIPTION	DATE	BY

FASTENING NOTES

1. JOISTS TO POSTS - 1/2" Ø LAG BOLTS & 3/4" Ø THRU BOLTS AS SHOWN ON DETAILS.
2. DECKING TO JOISTS - 3" GALVANIZED SCREWS.
3. RAILINGS TO POSTS - 3" GALVANIZED SCREWS.
4. RAILING CABLES TO POSTS PER MANUFACTURER'S RECOMMENDATIONS.

TIMBER BRIDGE

PART 1 - GENERAL

DESCRIPTION OF WORK:

- STAINLESS STEEL CABLE RAILING
- TIMBER JOISTS
- WOOD FRAMING
- TIMBER DECKING

REFERENCES

LUMBER STANDARDS: COMPLY WITH RS 70 AND WITH APPLICABLE RULES OF THE RESPECTIVE GRADING AND INSPECTING AGENCIES FOR SPECIES AND PRODUCTS INDICATED.

SUBMITTALS

PRODUCT DATA: SUBMIT MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR MATERIALS LISTED BELOW.
 WOOD: TEST WOOD DATA - SUBMIT TREATMENT MANUFACTURER'S INSTRUCTIONS FOR PROTECTIVE TREATMENT. FOR EACH TYPE SPECIFIED, INCLUDE CERTIFICATION BY TREATING PLANT STATING CHEMICALS AND PROCESS USED, NET AMOUNT OF PRESERVATIVE RETAINED AND CONFORMANCE WITH APPLICABLE STANDARDS.

PRODUCT HANDLING

DELIVERY AND STORAGE: KEEP MATERIALS DRY AT ALL TIMES. PROTECT AGAINST EXPOSURE TO WEATHER AND CONTACT WITH DAMP OR WET SURFACES. STACK LUMBER AND FRESHWOOD, AND PROVIDE AIR CIRCULATION WITHIN STACKS.

PART 2 - PRODUCTS

MATERIALS

LUMBER, GENERAL
 FACTORY MARK EACH PIECE OF LUMBER WITH TYPE, GRADE, MILL AND GRADING AGENCY, EXCEPT ON-THE-MARKING SURFACES TO BE EXPOSED WITH TRANSPARENT FINISH OR WITHOUT FINISH.
 NOMINAL SIZES ARE INDICATED, EXCEPT AS SHOWN BY DETAIL DIMENSIONS. PROVIDE PROTECTIVE TREATMENT FOR ALL EXPOSED SURFACES. PROVIDE PROTECTIVE TREATMENT TO ALL ENDS AND JOINTS. PROVIDE PROTECTIVE TREATMENT TO ALL ENDS AND JOINTS. PROVIDE PROTECTIVE TREATMENT TO ALL ENDS AND JOINTS. PROVIDE PROTECTIVE TREATMENT TO ALL ENDS AND JOINTS.

PROVIDE DRESSED LUMBER WITH 15% MAXIMUM MOISTURE CONTENT AT THE TIME OF PRESSING.
 PROVIDE SOUTHERN PINE LUMBER FOR FRAMING.
 TIMBER PLANKS TBD

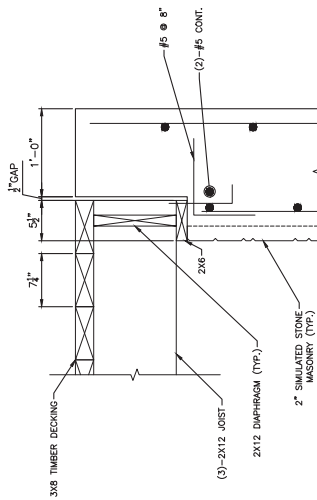
POSTS SHALL RUN FULL HEIGHT AND NO SPLICING ALLOWED.
MISCELLANEOUS MATERIALS
 FASTENERS AND ANCHORAGES: PROVIDE SIZE, TYPE, MATERIAL AND FINISH AS INDICATED AND AS RECOMMENDED BY APPLICABLE STANDARDS, COMPLYING WITH APPLICABLE LOCAL SPECIFICATIONS FOR NAILS, STAPLES, SCREWS, BOLTS, NUTS, ANCHORS AND BRACKETS. PROVIDE SIZE AND TYPE RECOMMENDED BY THE MANUFACTURER FOR EACH ANCHOR AND BRACKET. PROVIDE FASTENERS AND ANCHORAGES WITH A HOT-DIP ZINC COATING (ASTM A 153).
 WOOD PRESERVATIVE TREATMENT: SEE SPECIFICATIONS

PART 3 - EXECUTION

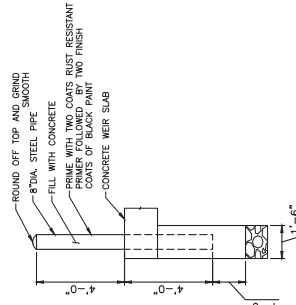
MATERIALS, GENERAL

DISCARD UNITS OF MATERIAL WITH DEFECTS WHICH MIGHT IMPAIR QUALITY OR WHICH WOULD BE UNDESIRABLE TO EXPOSE TO VIEW. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 SET CARPENTRY WORK ACCURATELY TO REQUIRED LEVELS AND LINES, WITH MEMBERS PLUMB AND TRUE AND ACCURATELY CUT AND FITTED.
 SECURELY ATTACH CARPENTRY WORK TO SUBSTRATE BY ANCHORING AND FASTENING AS SHOWN AND AS REQUIRED BY RECOMMENDED STANDARDS AND LOCAL CODES. SELECT FASTENERS OF SIZE THAT WILL NOT PENETRATE THROUGH MATERIALS TO WHICH THEY ARE APPLIED. PROVIDE TIGHT CONNECTIONS BETWEEN MEMBERS. INSTALL FASTENERS WITHOUT SPLITTING OF WOOD; PRE-DRILL AS REQUIRED.

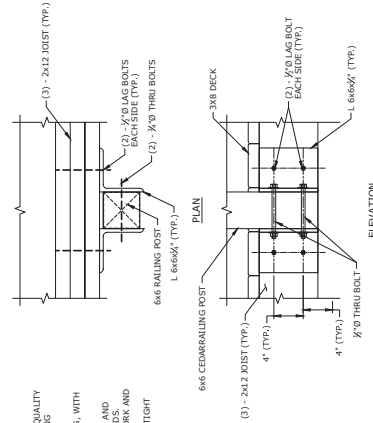
ADA ACCESSIBILITY: THE ENTIRE BOARDWALK IS TO BE HANDICAP ACCESSIBLE. CONTRACTOR TO MAINTAIN EXISTING ELEVATIONS.



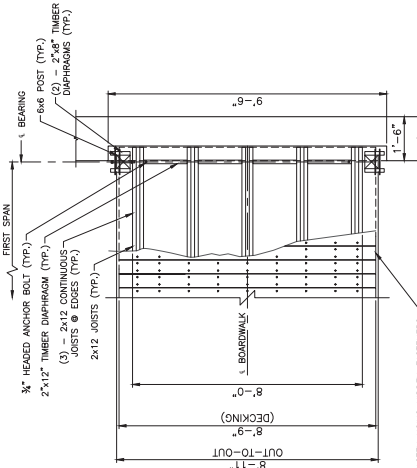
BRIDGE SEAT SECTION
SCALE 1 1/2" = 1'-0"



FIXED STEEL BOLLARD
SCALE 3/8" = 1'-0"

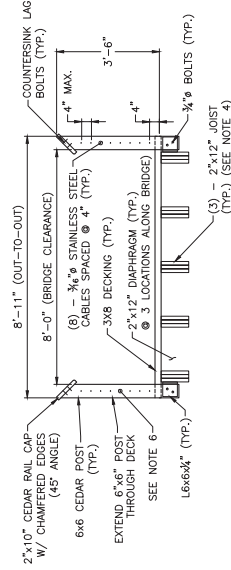


INTERMEDIATE POST CONNECTION
SCALE 1 1/2" = 1'-0"



3"x8" DECKING (TYP.) FASTEN USING HIDDEN FASTENERS W/ STAINLESS STEEL SCREWS AND 1/2" GAP B/T BOARDS. DECKING TO JOISTS - 3" GALVANIZED SCREWS PER CONNECTION. COUNTERSINK HOLE TO SET SCREW HEADS 1/8" BELOW DECK SURFACE.

TYPICAL ABUTMENT PLAN
SCALE 1/2" = 1'-0"



TYPICAL BOARDWALK / OVERLOOK SECTION
SCALE 1/2" = 1'-0"

- NOTES**
1. ALL POSTS AND TOP RAIL SHALL BE ACTUAL SIZE.
 2. ALL PRESSURE TREATED TIMBER SHALL BE NOMINAL SIZE.
 3. ALL PRESSURE TREATED TIMBER SHALL BE NAILED TOGETHER TO CREATE BEAM.
 4. ALL (3)-2X12'S SHALL BE NAILED TOGETHER TO CREATE BEAM.
 5. ALL PRESSURE TREATED TIMBER SHALL BE NAILED TOGETHER TO CREATE BEAM.
 6. CABLES SHALL HAVE A CONNECTOR AT EVERY POST AND CABLES SHALL NOT RUN THRU CENTER OF POSTS.
 7. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL.



SLR
 99 BAKER CORSE
 1000 MILLER
 CHESHIRE, CT 06819
 SURVEYING.COM

NO.	DESCRIPTION	DATE	BY

STRUCTURAL DETAILS
 FAIRCHILD WHEELER COUNTRY CLUB
 SITE 7
 2390 EASTON TURNPIKE
 FAIRFIELD, CONNECTICUT

NO.	DESCRIPTION	DATE	BY

STR-03

11 OF 11

To: Danielle Missell

**From: Megan B. Raymond, MS,
PWS, CFM**

Organization: CT DEEP

SLR International Corporation

Date

August 2, 2023

Project No.

141.11342.00028

RE: Rooster River Mitigation Fairchild Wheeler Country Club, Fairfield

In response to your email on July 28, 2023, regarding the wetland mitigation planting plan on Fairchild Wheeler Golf Course, SLR Consulting Inc. (SLR) is providing the following additional information.

- **Tree and shrub addition**

The Fairchild Wheeler Golf Course is a public course owned and operated by the City of Bridgeport and located in Fairfield. Given the location of the proposed mitigation within the riparian corridor of Londons Brook and on the golf course, the potential to add woody trees and shrubs is limited. However, the applicant will work with the golf course superintendent to locate 50 woody shrubs comprised of spice bush and (*Lindera benzoin*) and sweet pepperbush (*Clethra alinifolia*) along the outer perimeter of the mitigation areas to avoid conflict with the field of play. Additionally, proposed wetland mitigation planting will be enclosed by 1'-2' tall permanent fencing to avoid incidental mowing.

- **Performance standards**

The goal of the proposed mitigation project will include a minimum of 80% cover of native wetland species and less than 5% cover of non-native vegetation in the wetland areas. Prior to the start of work, the mitigation area will be surveyed for baseline vegetation, including percent cover of invasive and native species, to develop comparison standards to gauge the effectiveness of wetland restoration.

- **Post-mitigation monitoring**

Monitoring will be conducted for 5 years and continue annually until performance standards are met. For each of the first five full growing periods following construction of the mitigation areas, the areas will be monitored, and annual monitoring reports submitted to Connecticut Department of Energy and Environmental Protection (CT DEEP). The mitigation area will be surveyed a minimum of twice during the growing season (March to October). A post-construction assessment of the mitigation areas shall be performed at the end of the five-year monitoring period.

- **Long-term protection**

The City of Bridgeport and town of Fairfield understand the importance of mitigation and agree to the permanent protection of the restored riparian area on Londons Brook. The long-term protections include permanent fencing and signage with conservation medallions, demarcating the restored riparian corridor.



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 Fairfield_____

Municipality in which the project is occurring: _____Fairfield_____

DEEP License No(s): _____202207841-WQC / 202207842-DIV_____

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> Town of Fairfield </u> DEEP License Number(s): <u> 202207841-WQC / 202207842-DIV </u> Municipality in which project is occurring: <u> Fairfield </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 <div style="border: 1px solid black; width: 150px; height: 100px; display: inline-block; margin-left: 10px;"></div>
<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. <p>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</p>	