Special Meeting Agenda
Tolland Inland Wetlands Commission

CONFERENCE ROOM B, 21 Tolland Green, Tolland, CT 06084

Thursday, November 2, 2023 at 7:00 p.m.

---

1. Call to Order

2. Seating of Alternate(s)

3. Public Participation – Issues of concern not on the Agenda (2 minute limit)

4. Additions/Changes to Agenda

5. New Business

   5.1 Notification of Timber Harvest – 319 Peter Green Road (MBL:9/l/16)– Applicant: John Clark
   5.2 Notification of Timber Harvest – Peter Green Road (MBL: 14/D/3.02) – Applicant: John Clark
   5.3 Review Status of Enforcement Order: 12 Goose Lane.
   5.4 **IWC 23-6 – 343 Plains Road** – Proposed improvements to existing Camp Yankee Trails. Regulated activity within the 200' upland review area is 1.10 acres/48,024sqft and regulated activity within the 50 feet of a wetland is 0.09 acres/48,024sqft. Applicant: Girl Scouts of Connecticut. ***For receipt only.***

6. Old Business

7. Wetlands Agent Report

8. Other Business

   8.1 Executive Session per CGS §1-231: Potential Enforcement Action at 12 Goose Lane

9. Correspondence

10. Approval of Minutes – September 21, 2023 Regular Meeting

11. Adjournment

To join the Zoom Meeting, either click:
https://us02web.zoom.us/j/8608713602?pwd=cXZLNG9SWVlvNkNjZU9NYUxCd2xiUT09
One tap mobile: +16469313860,,8608713602#,,,,*06084#
Or call: 1-929-205-6099 and input:
Meeting ID: 860 871 3602
Passcode: 06084

Any party needing an accommodation contact the Planning & Development Department at (860) 871-3601 or via email to mdamato@tollandct gov
The Town of Tolland is an Equal Opportunity/Affirmative Action Employer.

NOTIFICATION OF TIMBER HARVEST

Town: TOLLAND **Date:** 9/27/23

Property Location: PETER GREEN ROAD

List all parcels:
Assessor's Info:

Map	Block	Lot
14	D	3.02

OR:

Unique ID

Total acreage of property(s): 10.75 **Total acreage of harvest area:** 7

Landowner(s) of Record: GEORGE KRECHKO
Mailing Address: 52 BASS DRIVE
Town: ENFIELD, CT **Zip** 06082
Phone (**)** _____
E-mail: _____

Primary Contact: _____
Mailing Address: _____
Town: _____ **Zip** _____
Phone (**)** _____
E-mail: _____

Note: Timber harvesting is a ***Permitted as of Right Activity*** pursuant to the Inland Wetlands and Watercourses Act, except for those practices regulated under Section 22a-36 through 22a-45 of the Connecticut General Statutes.

Is there a current forest management/stewardship plan for this property? ☐Yes ☑No

This timber harvest has been prepared by a State of Connecticut certified:
(Check one): ☑**Forester** **OR** ☐**Supervising Forest Products Harvester**
Forest Practitioner Certificate #: F 982
Name: JOHN CLARKE
Address: 24 ST MARYS DR, JEFFERSON, MA 01522
E-mail: johnclarke365@gmail.com
Phone #: (Business) _____ (Cell) 508-963-2070

Property Boundaries:
Bounds are marked: ☑Yes ☐No

Timber Harvest Boundaries:
Have been marked or flagged: ☑Yes ☐No

Have owners of all lands within 100 feet of the harvest area been notified via first-class mail prior to filing this "*Notification of Timber Harvest*"? ☑Yes ☐No
Estimated starting date of timber harvesting operations: 10/16/23

Description of Timber Harvest:
Objective: RELEASE OF ADVANCED REGENERATION.
Treatment: SHELTERWOOD RELEASE

Amount of forest products to be harvested:
26 M Board feet 24 Cords — Cubic feet — Tons

How have the trees to be harvested been designated?
☐They have been marked with paint at eye level and at ground level. **Paint color(s):** _____
☑They have not been marked

This is not an official CT DEP form but it has been endorsed for town usage by: CT Farm Bureau Assoc., CT Forest & Park Assoc., CT Professional Timber Producers, Society of American Foresters - CT Chapter, and others.

Soil, Water and Inland Wetlands Resources

Actions Being Performed On This Land

(Check all that apply and locate on attached Timber Harvest Area map -- see information below on maps.)

Crossings / Clearing	Erosion and Sedimentation Control Measures:
☑ Temporary stream/drainage crossing ☐ Temporary wetlands crossing ☐ Removal of trees in wetlands ☑ Removal of trees in upland review area	☑ Installation of water bars ☑ Grading ☐ Seeding ☐ Other (describe below)
Log landing area: ☐ anti-tracking pad ☐ curb cut	Roads Are new roads, other than skid trails, to be constructed for transport of logs or other activities associated with this harvest? ☐ Yes ☑ No

Describe in further detail as necessary:

The following maps are attached to this "Notification" (Check all that apply)

- ☑ Copy of USGS topographic map with property outlined
- ☑ Copy of Assessor's map with property outlined
- ☑ Timber Harvest Area map showing outline of harvest area, main skid road locations, log landing area, truck access roads, inland wetlands, watercourses and any crossings

The undersigned hereby swear that the information contained in this application is true, accurate and complete to the best of my (our) knowledge and belief and that the timber harvest will be conducted in accordance with the specifications outlined in this "Notification of Timber Harvest."

Signature of Landowner(s): George Krechko Date: 10/3/23

Print/Type Name: GEORGE KRECHKO

Signature of Landowner(s): _____ Date: _____

Print/Type Name: _____

Signature of Certified Forest Practitioner: _____ Date: 9/27/23

Print Name: JOHN CLARKE

Certificate #: F982 Expiration Date: 10/1/26

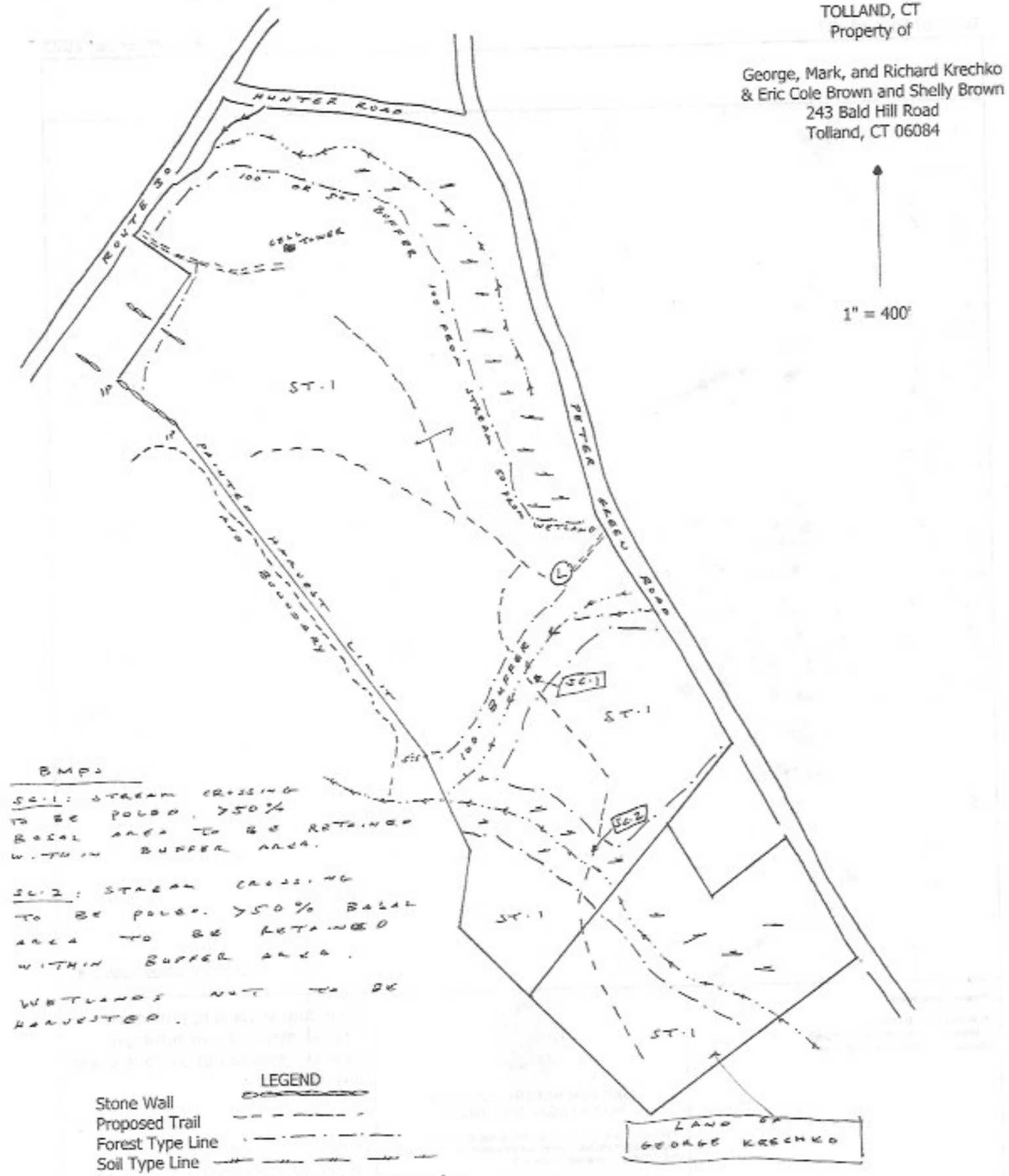
Complete and Submit to:
- The Municipal Inland Wetlands Agencyfies in which the property is located, and
- A courtesy copy of this Notification Form should also be sent to The Department of Environmental Protection, Division of Forestry 79 Elm Street, Hartford, CT, Tel: (860) 424-3630

This is not an official CT DEP form but it has been endorsed for town usage by: CT Farm Bureau Assoc., CT Forest & Park Assoc., CT Professional Timber Producers, Society of American Foresters - CT Chapter, and others.

TOLLAND, CT
Property of

George, Mark, and Richard Krechko
& Eric Cole Brown and Shelly Brown
243 Bald Hill Road
Tolland, CT 06084

1" = 400'



BMPs

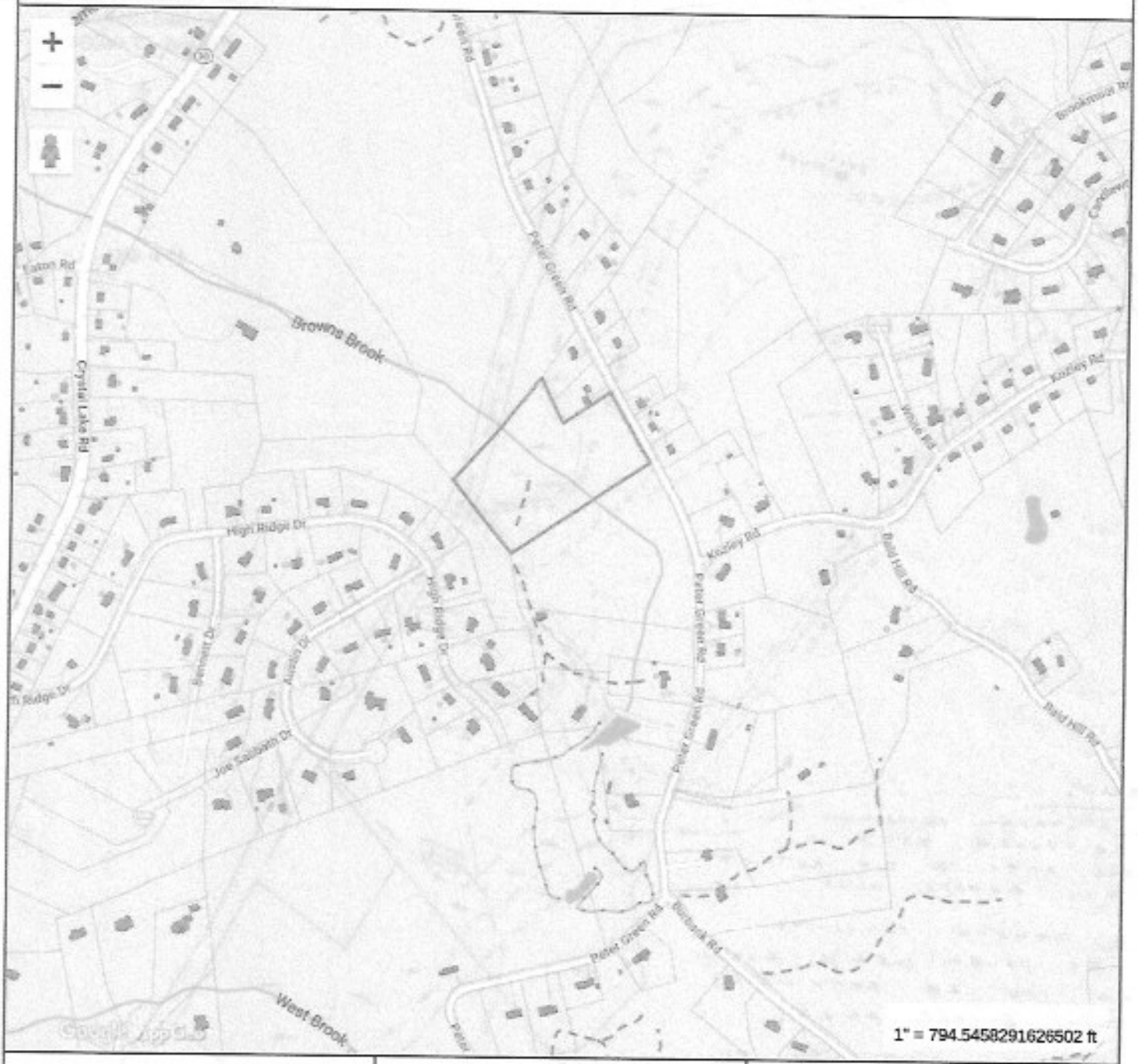
LEGEND

- Stone Wall
- Proposed Trail
- Forest Type Line
- Soil Type Line
- Stream
- Wetland
- Landing
- Steep Area
- Stand 1 - Pine - Hardwoods ST. 1

Prepared 9/23 by John Clarke Cert #F000982
from Field Data and Book 441/155, 712/207, 128/241, 1341/102, 1137/99, 910/342, 1599/82
and Bilow Builders Sruvey, Westwood Park Survey

Town of Tolland, CT

September 28, 2023



Property Information

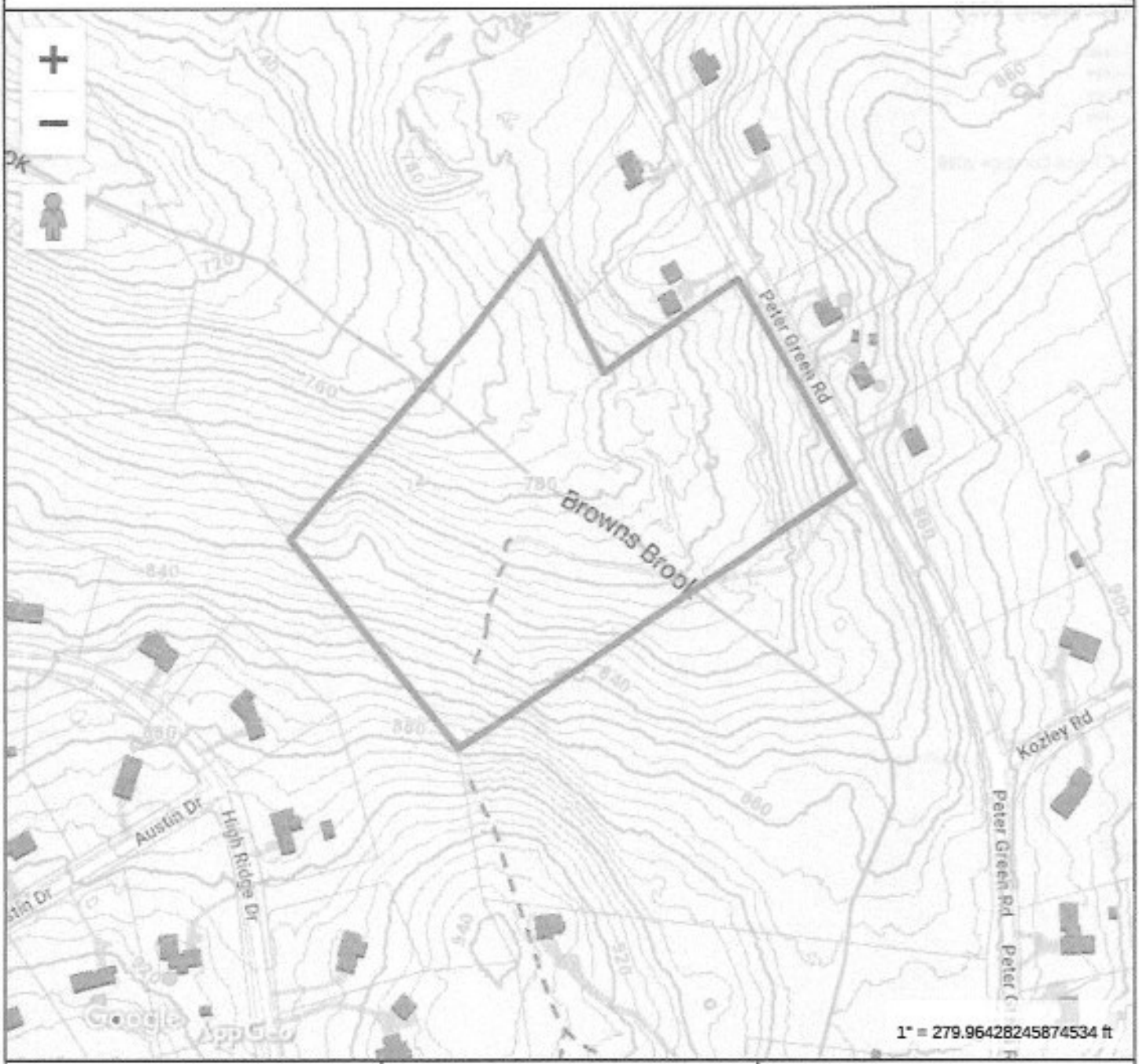
Property ID	14/D/003.02
Location	PETER GREEN ROAD
Owner	KRECHKO GEORGE

MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

Town of Tolland, CT makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated October 25, 2021
Data updated daily

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.



Property Information

Property ID	14/0/003.02
Location	PETER GREEN ROAD
Owner	KRECHKO GEORGE

MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

Town of Tolland, CT makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated October 25, 2021
Data updated daily

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.

Map Theme Legends

Topography 2016

— 100 ft
— 50 ft
— 20 ft
— 10 ft

CT Eco Contours 2016

NOTIFICATION OF TIMBER HARVEST

Town: TOLLAND **Date:** 9/27/2023
Property Location: PETER GREEN ROAD

List all parcels:
Assessor's Info:

Map	Block	Lot
9	1	16

OR:

Unique ID

Total acreage of property(s): 69 AC **Total acreage of harvest area:** 40 AC

Landowner(s) of Record: Krechko (3) & Brown
Mailing Address: 295 Bald Hill Road
Town: Tolland, CT **Zip** 06084
Phone (**)** _____
E-mail: _____

Primary Contact: MARK KRECHKO
Mailing Address: _____
Town: _____ **Zip** _____
Phone (**)** _____
E-mail: _____

Note: Timber harvesting is a ***Permitted as of Right Activity*** pursuant to the Inland Wetlands and Watercourses Act, except for those practices regulated under Section 22a-36 through 22a-45 of the Connecticut General Statutes.

Is there a current forest management/stewardship plan for this property? ☐Yes ☑No

This timber harvest has been prepared by a State of Connecticut certified:
(Check one): ☑ **Forester OR** ☐ **Supervising Forest Products Harvester**
Forest Practitioner Certificate #: F982
Name: JOHN CLARKE
Address: 24 ST MARY'S DR, JEFFERSON, MA 01522
E-mail: johnclarke365@gmail.com
Phone #: (Business) _____ (Cell) 508-963-2070

Property Boundaries:
Bounds are marked: ☑Yes ☐No

Timber Harvest Boundaries:
Have been marked or flagged: ☑Yes ☐No

Have owners of all lands within 100 feet of the harvest area been notified via first-class mail prior to filing this "*Notification of Timber Harvest*"? ☑Yes ☐No
Estimated starting date of timber harvesting operations: 9/27/27

Description of Timber Harvest:
Objective: RELEASE OF EXISTING REGENERATION, DEVELOPMENT OF SEED TREES
Treatment: SHELTER WOOD

Amount of forest products to be harvested:
200 M Board feet 207 Cords — Cubic feet — Tons

How have the trees to be harvested been designated?
☐They have been marked with paint at eye level and at ground level. **Paint color(s):** _____
☑They have not been marked

This is not an official CT DEP form but it has been endorsed for town usage by: CT Farm Bureau Assoc., CT Forest & Park Assoc., CT Professional Timber Producers, Society of American Foresters - CT Chapter, and others.

SOIL, WATER AND INLAND WETLANDS RESOURCES

Actions Being Performed On This Land

(Check all that apply and locate on attached Timber Harvest Area map -- see information below on maps.)

Crossings / Clearing	Erosion and Sedimentation Control Measures:
☑ Temporary stream/drainage crossing ☑ Temporary wetlands crossing ☐ Removal of trees in wetlands ☑ Removal of trees in upland review area	☑ Installation of water bars ☑ Grading ☐ Seeding ☐ Other (describe below)
Log landing area:	**Roads**
☑ anti-tracking pad ☐ curb cut	Are new roads, other than skid trails, to be constructed for transport of logs or other activities associated with this harvest? ☐ Yes ☑ No

Describe in further detail as necessary:

_____

_____

_____

_____

The following maps are attached to this "Notification" (Check all that apply)

- ☐ Copy of USGS topographic map with property outlined
- ☐ Copy of Assessor's map with property outlined
- ☐ Timber Harvest Area map showing outline of harvest area, main skid road locations, log landing area, truck access roads, inland wetlands, watercourses and any crossings

The undersigned hereby swear that the information contained in this application is true, accurate and complete to the best of my (our) knowledge and belief and that the timber harvest will be conducted in accordance with the specifications outlined in this "Notification of Timber Harvest."

Signature of Landowner(s): _____ Date: _____

Print/Type Name: GEORGE KRECHKO, MARK KRECHKO, Richard Krechko, Shelley Brown

George Krechko Mark Krechko Shelley K. Brown

Signature of Landowner(s): _____ Date: _____

Print/Type Name: _____

Signature of Certified Forest Practitioner: _____ Date: 9/27/2023

Print Name: JOHN CLARKE

Certificate #: F 982 Expiration Date: 11/1/26

Complete and Submit to:
- The Municipal Inland Wetlands Agency/ies in which the property is located, and
- A courtesy copy of this Notification Form should also be sent to The Department of Environmental Protection, Division of Forestry
79 Elm Street, Hartford, CT, Tel: (860) 424-3630

This is not an official CT DEP form but it has been endorsed for town usage by: CT Farm Bureau Assoc., CT Forest & Park Assoc., CT Professional Timber Producers, Society of American Foresters - CT Chapter, and others.

TOLLAND, CT
Property of

George, Mark, and Richard Krechko
& Eric Cole Brown and Shelly Brown
243 Bald Hill Road
Tolland, CT 06084

1" = 400'

BMPs

SC-1: STREAM CROSSING TO BE POLED. >50% BASAL AREA TO BE RETAINED WITHIN BUFFER AREA.

SC-2: STREAM CROSSING TO BE POLED. >50% BASAL AREA TO BE RETAINED WITHIN BUFFER AREA.

WETLANDS NOT TO BE HARVESTED.

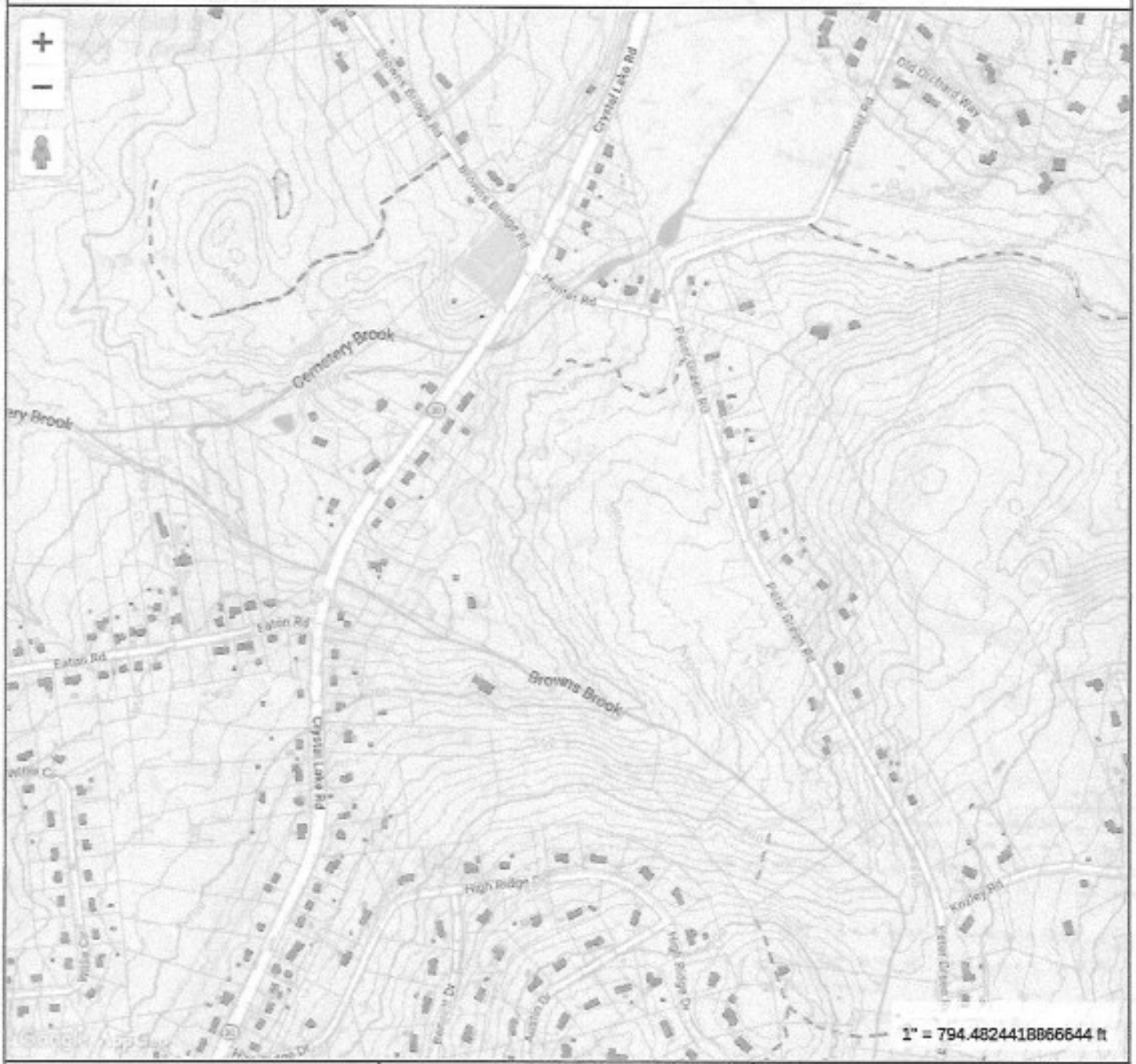
LEGEND

Stone Wall
Proposed Trail
Forest Type Line
Soil Type Line
Stream
Wetland
Landing
Steep Area
Stand 1 - Pine - Hardwoods ST. 1

Prepared 9/23 by John Clarke Cert #F000982
from Field Data and Book 441/155, 712/207, 128/241, 1341/102, 1137/99, 910/342, 1599/82
and Bilow Builders Sruvey, Westwood Park Survey

Town of Tolland, CT

September 27, 2023

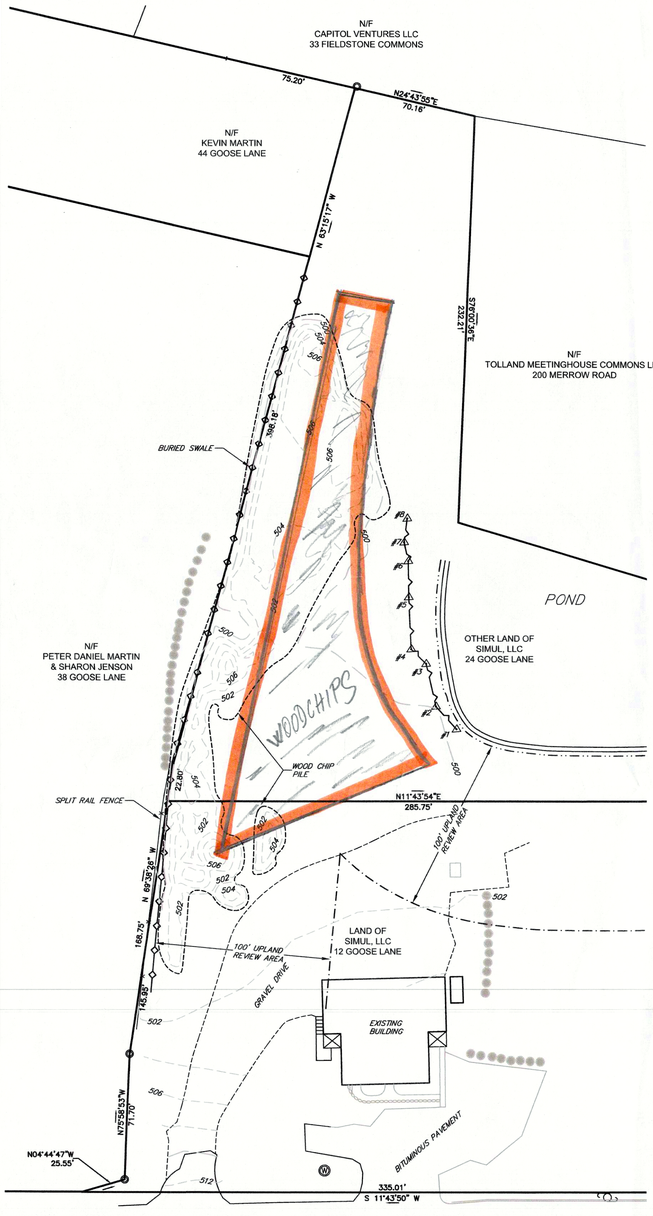


MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

Town of Tolland, CT makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated October 25, 2021
Data updated daily

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.



THE WETLAND SOILS ON THIS PROPERTY WERE IDENTIFIED IN THE FIELD USING THE CRITERIA REQUIRED BY CONNECTICUT P.A. 72-155 AS AMENDED BY P.A. 73-571 AND ARE ACCURATELY REPRESENTED ON THIS PLAN.

RICHARD ZULICK C.S.S.

NOTES:

1. THIS MAP AND SURVEY HAVE BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300b-1 THROUGH 20-300b-20. THIS IS A GENERLA LOCATION SURVEY AND A DEPENDANT RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS C AND TOPOGRAPHIC ACCURACY CLASS T-2.
2. MAP REFERENCE:
   A. "PROPERTY SURVEY LAND OF THE SAVINGS BANK OF MANCHESTER TO BE CONVEYED TO GOOSE LAND, L.L.C. 12-24 GOOSE LANE, TOLLAND, CONNECTICUT." BY GARDNER & PETERSON ASSOCIATES. DATE: 10-27-97. MAP NO: 8729-M1. REVISED 5-13-2003.
   B. "MAP SHOWING SOME LAND OF KEVIN MARTIN, PETER DANIEL MARTIN, SHARON JENSON & SIMUL, LLC SHOWING MUTUAL AGREEMENT OF BOUNDARY LINE #12 & 38 GOOSE LANE TOLLAND, CONNECTICUT" BY STANLEY W. SZESTOWICKI R.L.S. DATED: APRIL, 25, 2022.
3. BEARINGS DEPICTED ON THIS PLAN ARE BASED ON THE SURVEY REFERENCED IN NOTE 2.A. ELEVATIONS DEPICTED ON THIS PLAN ARE BASED ON AN ASSUMED DATUM.
4. UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING AND OTHER DATA SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES, GOVERNMENTAL AGENCIES AND/OR OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE. THE EXISTENCE OF WHICH ARE UNKNOWN TO GARDNER & PETERSON ASSOCIATES, LLC. THE EXISTENCE, SIZE AND LOCATION OF ALL SUCH FEATURES MUST BE DETERMINED AND VERIFIED IN THE FIELD BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG 1-800-922-4455.
5. THE PILES DEPICTED ON THIS PLAN CONTAIN 2,700 CUBIC YARDS OF WOOD CHIPS.

I HEREBY DECLARE THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

ERIC R. PETERSON — L.S. 23430 REGISTRATION NO.

STATE OF CONNECTICUT · ERIC R. PETERSON · No. 23430 · LICENSED LAND SURVEYOR

REVISIONS

GENERAL LOCATION SURVEY
LAND OF
SIMUL, LLC
12 & 24 GOOSE LANE
TOLLAND, CONNECTICUT

GARDNER & PETERSON ASSOCIATES, LLC
178 HARTFORD TURNPIKE
TOLLAND, CONNECTICUT
PROFESSIONAL ENGINEERS LAND SURVEYORS

BY	SCALE	DATE	SHEET NO.	MAP NO.
E.R.P.	1"=40'	04-06-2023	1 OF 1	8729-W

G:\Plat\8729\Survey\04-06-2023\8729-W.pdf
8729X-STK.dwg\8729REV-STK.dwg

TOWN of TOLLAND/ 21 Tolland Green, Tolland, Connecticut 06084

June 21, 2023

Julius Gorog
c/o Julius Gorog (Agent)
SIMUL LLC.
148 Holly Hill Road
Greenwich, CT 06830

Re: Show Cause Hearing, 12 Goose Lane (MBL 28/C/007) - for the deposition of material/filling activities within the wetland and upland review area without a permit.

Dear Mr.Gorog:

You are hereby advised that the Tolland Inland Wetlands Commission at their meeting on June 15, 2023, voted to modify and uphold the Cease and Correct Order dated January 11, 2023 with the following conditions:

1. The property owner shall remove all material from within the swale along the south property line within 60 days of the effective date of this decision and make a reasonable effort to complete all remaining work not later than December 1, 2023.
2. The property owner shall move the existing woodchips from the west side of the property to create a stockpile/storage area as depicted on the annotated site plan.
3. No new material shall be deposited within the upland review or wetland areas.
4. Any activity beyond what is required by the issuance of this Order shall require review by the Inland Wetlands Commission in accordance with Regulations.

A legal notice of decision will be published on Friday, June 23, 2023. The appeal period expires 15 days after the publication of that notice.

If you have any questions, please contact me at 860-871-3601.

Sincerely,

Michael D'Amato, ACIP, CZEO
Inland Wetland Agent, Town of Tolland

IWC #_____

Town of Tolland
Inland Wetlands Commission

APPLICATION FOR PERMIT

OFFICE USE ONLY			
Agent Decision	$		☐
Commission Approval	$		☐
Other	$		☐

An incomplete application may be denied.

1. Applicant & Owner Information

343 Plains Road
Site Address of Proposed Activity

Girl Scouts of Connecticut — 340 Washington St. Harford, CT 06106
Applicant Name — Mailing Address

860-522-0163 — mcorcoran@gsofct.org or rkopylec@gsofct.org
Phone Number — Email Address

Property Owner(s) Name *(if not the applicant)* — Mailing Address

Phone — Email Address

Applicant's Interest in the Land (*if other than owner*)

Is this property part of an approved subdivision? ☑ No ☐ Yes If **YES**, please state the name:

2. Proposed Activity Information * These questions are mandatory

Check all activities occurring within 50 feet of wetlands or 100-feet of watercourses.

☑ Remove soil	☑ Deposit fill	☐ Divert surface water
☑ Construction	☑ Grade	☑ Construct a road or driveway
☑ Remove Vegetation	☑ Restore Vegetation	☐ Place a prefabricated structure
☐ Alter a watercourse	☐ Enhance a watercourse	☐ Create a watercourse
☐ Remedy pollution	☐ Dredging or construct a dam	☐ Other

* Describe the proposed activity. (use additional paper if necessary)

Improvements are centered at the camp core and aim to improve accessibility, connectivity, and comfort for campers and staff. The main improvements include a renovated & expanded dining hall, new parking lot, new shower house, new cabins, paved access drive, and an accessible waterfront. Refer to narrative & site plans for detailed information.

* What is the proposed use? (use additional paper if necessary)

The proposed use of the site will remain a Girl Scout camp facility with the majority of activity occurring during the summer months for resident and day campers.

3. Wetland and Upland Review Area Information * These questions are mandatory

* What is the total **area** of the wetlands on the parcel? (see directions on page 7)

38.5 acres (per online mapping tool)

How often are the wetlands wet?

☑ All year ☐ Springtime only ☐ Sometimes ☐ I don't know

A **watercourse** is defined as:
Rivers, streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs, and all other bodies of water, natural or artificial, vernal or intermittent, public or private.

An **upland review area** is defined as:
An area extending a minimum of 50-feet from the edge of wetlands and/or 100-feet from any watercourse (refer to regulations when doubling of an upland review area is required).

* **Square feet** of disturbance in wetland, watercourse, or upland review area. (list areas separately)

The upland review area of the wetland boundary associated with Sweetheart Lake has been depicted on all plans to the 200 foot limit due to the surrounding area having steep slopes. The regulated activity within the 200' upland review area is 1.10 acre/48,024 sf.

Regulated activity within the 50 foot upland review area of Wetland 'X' as defined in the wetland delineation report is 0.09 acres/3,781 sf

What is the **square feet** of any areas of enhancement within the upland review area?

Removal of tent platforms within Wetland 'X' URA = 0.06 acres / 2,700 sf. Tree plantings and native seed mixes proposed within the URA are approximately 0.14 acres / 6,000 sf.

An **intermittent watercourse** is defined as:
A permanent channel and bank and the occurrence of two (2) or more of the following characteristics: scour, deposits of organic material, presence of standing water for a duration longer than a particular storm event, or hydrophytic vegetation.

* **Does the wetland have a watercourse through it?** ☑ No ☐ Yes

If **YES**, how often is the watercourse present?

☐ All year ☐ Springtime only ☐ Sometimes ☐ I don't know

* **Is there a pond, lake, or river on the property?** (check all that apply)

☐ Pond ☑ Lake ☐ River ☐ None

What is the total **area** of disturbance of an open water body? 0 square feet

What is the **linear feet** of disturbance of a watercourse? 0 feet

Has the property been delineated by a Certified Soil Scientist? ☐ No ☑ Yes

If **YES**, what year did the delineation occur? 2022

What is **wetland delineation**?
Delineation is an act of locating the boundary or border of a wetland or waterbody. Delineation also includes describing the functions and values the water system provides the geographical location. In the state of Connecticut only a certified Soil Scientist is recognized as being able to perform a wetland or watercourse delineation.

4. Alternatives

* Please explain to the Commission the reason you chose this location for your proposed activity or project. What alternatives have been considered to avoid altering wetlands or watercourses? (use additional paper if necessary)

* **This question is mandatory**

The project areas have been selected based primarily on the location of existing site features.

The majority of proposed renovations and upgrades are connected to existing camp buildings, access ways and activity areas.

The proposed work has been strategically located outside upland review areas where possible and with no direct wetland or watercourse impacts.

5. Abutters

Providing abutters only applies if the application requires a public hearing. Tolland's Planning & Development Department will supply the applicant with the names and addresses of adjacent property owners. **There is a public hearing fee of $300.**

6. Site Plan Maps *Application Requirement

See page 7 below.

7. Additional Information

Supply any other information that would help in the understanding of the proposed activity.

8. A Complete Application Consists Of

1. This permit application fully filled out.
2. Site Plan Maps as described on page 7.
3. Signatures & Seals of licensed or certified professionals.
4. Filing fee
5. **One (1) electronic copy** of the application.
6. **Nine (9) hard copies** of the application.

Site Plan Maps *Application Requirement

Hand drawn or engineered plans?:

Depending on the proposed scope of work, hand drawn maps & plans may be acceptable **OR** professional survey/engineering drawings may be required. The IWWC or its duly authorized agent may waive any portion of these requirements.

Typical required site plan elements:

- ☐ A North Arrow
- ☐ A Legend
- ☐ In the lower right hand corner showing the following information (Title Block):
  - ☐ Name of Project and Address
  - ☐ Name of Applicant/Owner/Developer
  - ☐ Map Scale
  - ☐ Name or initials of who prepared the plan (if not the applicant)
  - ☐ Date prepared (or revision dates)

MAP 1: General Location Map (1 copy) – Refer to Page 7

Mapping: On-line GIS

- ☐ Use Tolland's GIS mapping system currently found on the Town's website, or on the Planning & Development webpage, click here.
- ☐ Turn on the themes and choose BOTH: "Wetlands – Delineated" and "Wetlands – Soils."
- ☐ Add Topography – For online mapping choose BOTH "Topography" and "Topography 2016".
- ☐ Click on the property of interest
- ☐ Scale the map to 1"= 200 feet – **Refer to Page 7**
- ☐ Print out the document or save electronically as a PDF

MAP 2: Existing Conditions (1 electronic / 9 hardcopies)

- ☐ **Scale:** Up to 1" = 100 feet (if conditions do not fit on a 24"x36" sheet scale can be reduced to 1"=200')
- ☐ Use either Tolland's GIS mapping system or an existing A2 Survey from your building file. Ask us.
- ☐ Follow steps 1-4 from above – For online mapping.
- ☐ Topography
- ☐ Existing property lines for entire property
- ☐ Locate all regulated areas on property: wetlands, watercourses, upland review areas 50' or 100'
- ☐ Locate the existing well & septic locations (properties with public utilities mark the general location)
- ☐ Locate significant exiting features or structures, buildings, roads, driveways, stonewalls, easements, ledges, stone outcrops, etc.
- ☐ Total acreage of the property
- ☐ Wetland delineation may be required if a delineation occurred prior to 1990. Call us.

MAP 3: Proposed Site Plan (1 electronic / 9 hardcopies)

- ☐ **Scale:** Any scale between 20 scale - 50 scale is acceptable (e.g. 1"=20 ft., 30 ft., 40 ft., 50 ft.)
- ☐ All items from Map 2 above
- ☐ Limits of disturbance (the boundary line where the proposed activity will occur including layout areas)
- ☐ Property setbacks
- ☐ Distance (linear feet) of proposed activity from property setbacks
- ☐ Area (square footage) of proposed activity within a regulated area (wetland, upland review area) if any
- ☐ Proposed buildings, structures, septic systems, roads (including logging roads), etc.
- ☐ Distance (linear feet) from proposed activity to closest regulated area
- ☐ Label edges and general areas of existing and proposed vegetation (forest, field, lawn, clearings)
- ☐ Temporary storage piles (e.g. fill, topsoil, organic soil)
- ☐ Erosion and sedimentation measures, and/or other measures planned to protect wetlands, watercourses from harmful discharges during or after the proposed activity. * **This question is mandatory**
- ☐ Signature and Seal of Surveyor, Landscape Architect or Professional Engineer * **This is mandatory**
- ☐ If wetlands have been delineated by a certified Soil Scientist the Signature and Certification Number must be on the plans * **This is mandatory**

Additional Site Plan Requirements for Projects deemed a "Significant Activity"

- ☐ A Public Hearing Fee of $300 may be required
- ☐ An Engineer or Expert review fee may be required – lack of payment are grounds for denial without prejudice for an incomplete application. Call us.
- ☐ Hydraulic modifications to wetlands or watercoureses (if any)
- ☐ Soil Scientist report including the observations of existing ecological communities, soil types

FEES

Type of Permit	Fee Amount	Total
Residential Uses – Existing Lots	$80.00 **plus** $60.00 State Fee	$140.00
Map Amendment	$300.00 **plus** $60.00 State Fee	$360.00
Modify Previous Approval	$100.00 **plus** $60.00 State Fee	$160.00
Appeal Agent Issued Permit	$80.00 **plus** $60.00 State Fee	$140.00
Wetlands Buffer Zone Markers	Fee $1.00 each	TBD
Other uses	$200.00 **plus** $60.00 State Fee	$260.00

Additional Fees:

Agent Issued Permits (Activity in Upland Review Area):

Fee $40.00 **plus** $60.00 State Fee (Total $100.00)

Plus Advertisement Costs: Applicants must advertise in Journal Inquirer at own cost.

Subdivision without new roads or storm drainage:

Fee $200.00 for first 2 lots, **plus** $50.00 for each additional lot with proposed activity in regulated area **plus** $60.00 State Fee.

Subdivision with New Roads:

$200.00 **plus** $50.00 for each additional lot with proposed activity in regulated area **plus** $200.00 for each 1,000 linear feet of road (or any part thereof) **plus** $60.00 State Fee.

Commercial, Industrial, Multi-Family Residential (as defined by Zoning Regulations) Fees:

- ☐ Up to 23,000 square feet impervious surface: $400
- ☐ 23,001 to 50,000 square feet: $400 plus $5 per 1,000 square feet in excess of 23,000 square feet
- ☐ Over 50,000 square feet: $535 plus $2 per $1,000 square feet in excess of 50,000 square feet required.

plus State Fee: $60

Public Hearing Fee: (When it is determined a Public Hearing is required)

$300.00 (in addition to above fees, if above fee is less than $500.00) –

Filing fees may include additional costs incurred by the Town of Tolland, including, but not limited to, the expense of retaining experts to analyze, review and report on areas requiring a detailed technical review in order to assist the Commission in its deliberations. Said costs will be estimated by the Commission, based on preliminary estimates from such experts, and said estimate of costs times 150% will be paid over to the Commission prior to proceeding on the application. Upon completion of the technical review and a determination of the costs incurred, any excess will be refunded to the applicants. The applicant shall not be responsible for costs incurred in excess of 150% of the Commission's estimate.

Signature and Authorization

I, as the applicant, do hereby certify that I am familiar with all the information provided in the application and I am aware, that an incomplete application form, as well as a lack of payment of all associated permit fees, are grounds for denial without prejudice by either the Commission or their designated agents.

I am aware of the penalties for obtaining a permit through deception or through inaccurate or misleading information.

I, as the owner, do hereby authorize the members and designated agents of the Inland Wetlands Commission and professionals hired by the Commission for the purpose of reviewing this application to inspect the property from this date forward until the permitted activity is completed or the application is denied.

I, as the applicant, do understand that an engineer review fee may be required and a lack of payment are grounds for denial without prejudice by either the Commission or their designated agents.

I further understand that the Commission may request further information in connection with this application and that if the proposed activity involves a significant activity, an additional filing fee of $300 be required for a public hearing.

Rocky Kopylec — Digitally signed by Rocky Kopylec Date: 2023.10.12 10:39:58 -04'00' — 10/12/2023

Signature of Applicant — Date

Signature of Owner (if different) — Date

For Office Use	
FEE TOTALS	
Amount:	
Paid:	
Agent Issued or Commission Issued:	
Date received by Land Use Department:	
Date received by Commission:	

Instructions for using GIS Mapping Online

1. **Website address:** https://tollandct.mapgeo.io/

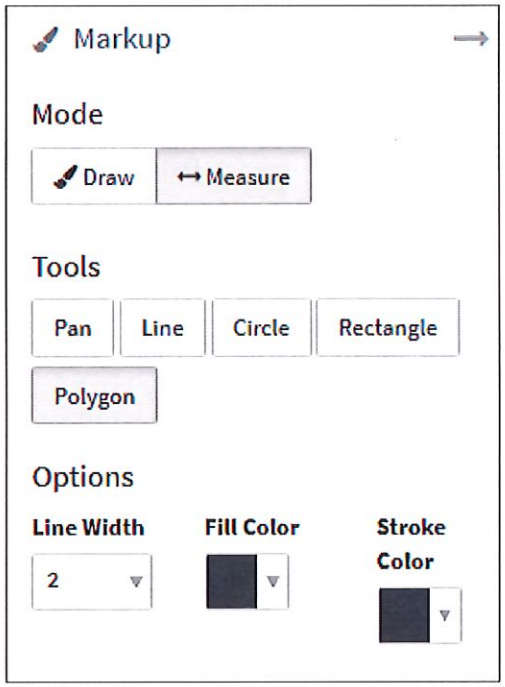
2. **To locate a property:**

   Type property address in search bar in the top right corner of the screen. Click on the correct property address in the search results.

3. **To show wetlands:**

Click on "Themes" on the top right and choose BOTH "Wetlands – Delineated" and "Wetlands – Soils."

4. **To map the area of wetlands:**

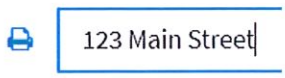


Click on "Markup" > "Measure" > "Polygon"

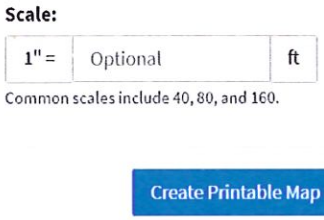
Click on the edge of the wetlands and move your mouse along. Click to anchor the line and to change directions, double click when you have completely outlined the wetlands and are back to the start of the line.

GIS will calculate the area and display it on the screen in the center of the shape and also display it on the right hand side of the screen, in the Markup box.

5. **To scale a drawing:**



Click on the "Printer" icon next to the search bar in the top right corner of the screen.



Enter your desired Scale: 500 ft., 50 ft., 40 ft., etc.

Click on > "Create Printable Map"

Camp Yankee Trails
Inland Wetlands Application
Project Narrative

Camp Yankee Trails has sat idle and unused by GSofCT for several decades; however, with the sale of other camp properties the organization has decided to reinvest in Camp Yankee and relocate their only resident camp experience in Connecticut to the property. To do so, the property needs several upgrades to buildings, infrastructure, and the site.

The buildings to be upgraded or built new include renovations and additions to the dining hall, a new shower house, and four new cabins including an accessible unit. The building improvements are consolidated in the camp core and are centered around the existing dining hall. The dining hall will be renovated with a new kitchen, bathrooms, storage, and larger dining area. The building will be insulated and heated to accommodate year-round use. To further support the camp and dining hall area a new parking lot is proposed to accommodate 49 cars. GSofCT hopes that the property will not only be used as a resident camp but can also host staff events, girl scout meetings, and outside events year round. Currently the small dirt lot can accommodate, at most, a dozen vehicles.

The shower house and camp cabins will be seasonal structures constructed to the west and north of the dining hall and parking lot. Keeping each of these uses central to each other allows for ease of access, consolidates infrastructure needs, and reduces overall impacts to the site. Accessible stone dust and concrete paths will connect each of the improvement areas furthering the goal of a property for all users.

As with most summer camps a key feature is water play, so GSofCT is looking to improve the accessibility and usability of the existing waterfront on Sweetheart Lake. The current waterfront area is steep with uneven terrain and a small “beach” area that is prone to erosion. The proposed waterfront improvements will allow for ADA compliant access via a series of ramps and sloped walks which necessitate the construction of retaining walls. The retaining walls also allow for the grade of the waterfront area to be improved to increase the beach area and provide a consistent slope down to the water’s edge.

Construction is anticipated to begin in the winter of 2023 with most improvements completed by June 2024. The anticipated sequence of construction is:

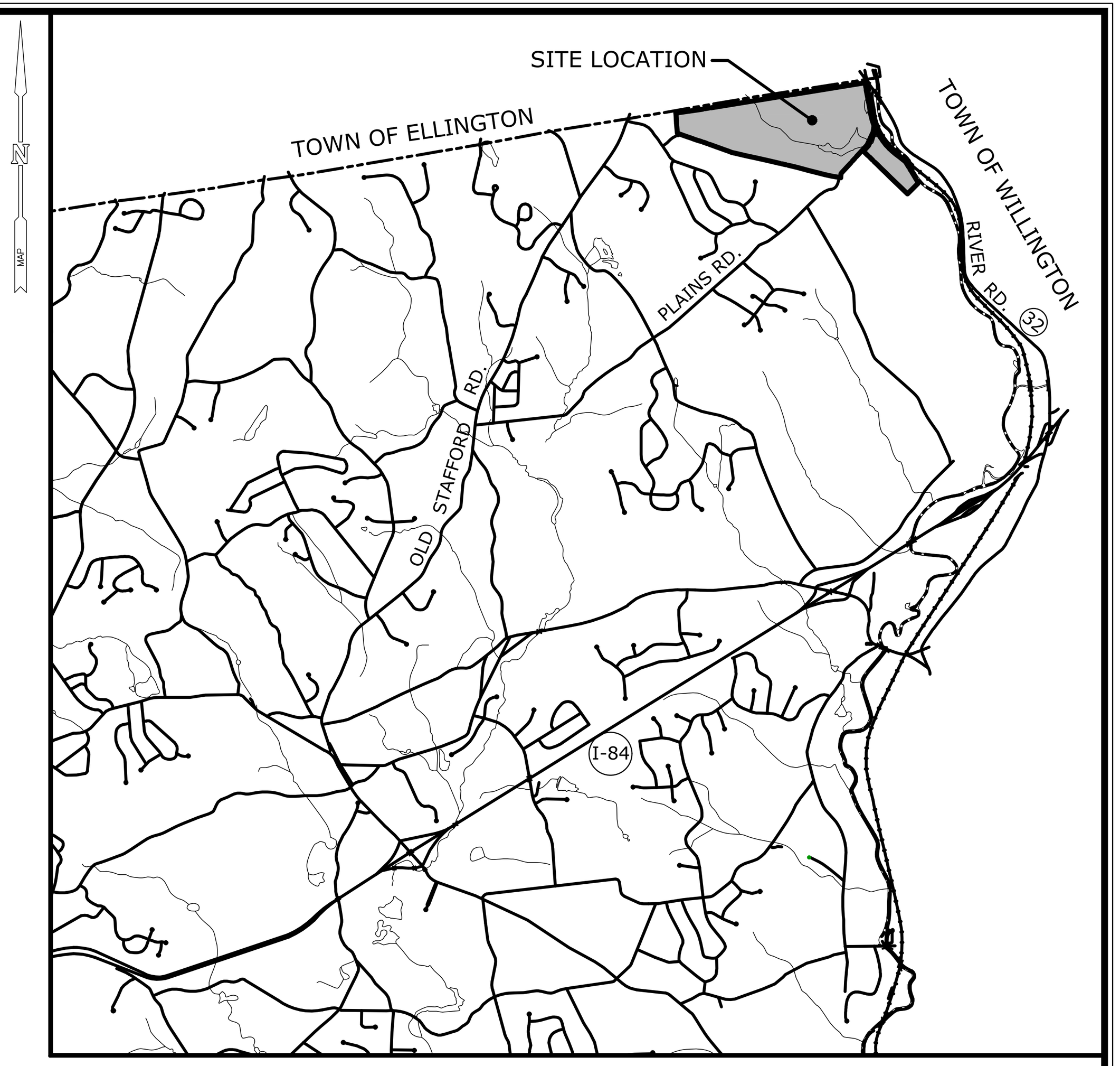
1. Install sediment and erosion controls.
2. Clear and grub trees and vegetation to the indicated clearing limits. Wherever possible, trees will be preserved. Clear cutting areas is not the goal of the project; however, some areas require full removal to accommodate the improvements. Several areas also have hazardous trees that need to be removed for safety reasons.
3. Pad out access drive and parking area to allow for construction access and compaction of subbase materials.
4. Selective demolition of dining hall
5. Installation of underground utilities surrounding building footprints and within parking lot
6. Construction of shower house and dining hall additions
7. Extension of utilities to necessary end points including septic leaching fields and drainage structures
8. Construction of cabins
9. Fine grading and installation of walking paths
10. Install landscaping
11. Finalize construction of parking lot and access road
12. Construct waterfront improvements (with lake still drawn down)
13. Remove sediment and erosion controls and clean site

CAMP YANKEE TRAILS
SITE IMPROVEMENTS

343 PLAINS ROAD
TOLLAND, CONNECTICUT

REGULATORY DRAWINGS

OCTOBER 12, 2023



LOCATION MAP:

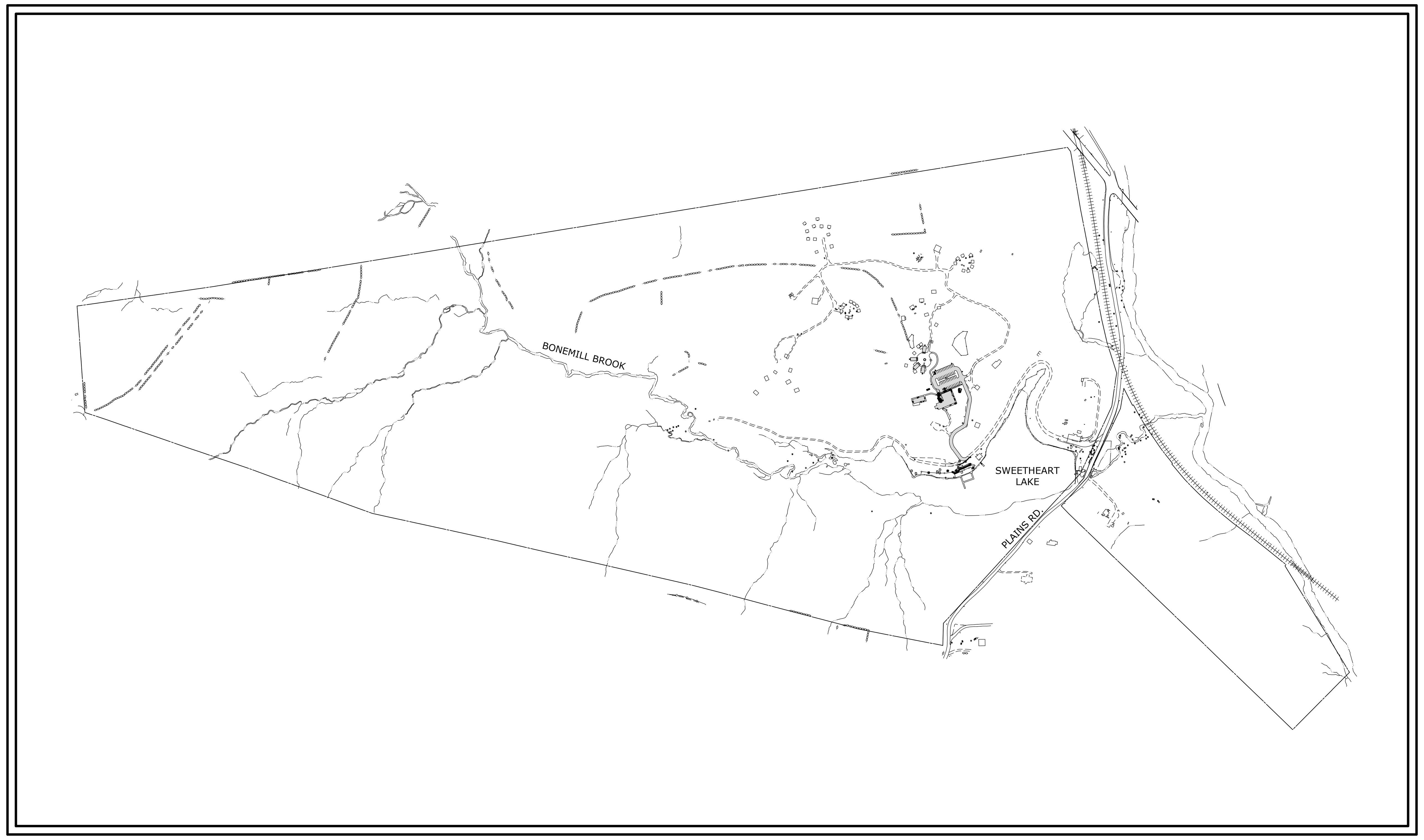
SCALE 1" = 5,000'

ZONING DATA TABLE			
ZONE: NATURAL RESOURCE PROTECTION AREA (WITHIN RDD)			
USE: YOUTH CAMP			
	REQUIRED	EXISTING	PROPOSED
LOT AREA (SPECIAL PERMIT USE: YOUTH CAMP)	1,742,400 SF MIN. / 40 ACRES MIN.	11,135,840 SF / 255.64 ACRES	11,135,840 SF / 255.64 ACRES
LOT FRONTAGE (RDD TRADITIONAL DEVELOPMENT)	200 FT. MIN.	<200 FT.	<200 FT.
BUFFER ZONE (SECTION 16-3)	100 FT. MIN.	<100 FT.	<100 FT.
BUILDING COVERAGE (%) (RDD TRADITIONAL DEVELOPMENT)	15% MAX.	>15%	>15%

PARKING DATA - DINING HALL		
	EXISTING	PROPOSED
STANDARD SPACES	10	46
HANDICAP/ VAN ACCESSIBLE PARKING SPACES	1	3
TOTAL PARKING SPACES	11	49

GENERAL NOTES

1. BOUNDARY INFORMATION IS BASED UPON FIELD SURVEY CONDUCTED BY: GARDNER & PETERSON ASSOCIATES, LLC TOLLAND, CONNECTICUT, TAKEN FROM A MAP ENTITLED PERIMETER SURVEY LAND OF THE GIRL SCOUTS OF CONNECTICUT, INC. 343 PLAINS ROAD, TOLLAND, CONNECTICUT, PREPARED FOR GIRL SCOUTS OF CONNECTICUT AT A SCALE OF 1"=100', DATED: 11-09-2022
2. TOPOGRAPHIC INFORMATION IS BASED ON AERIAL SURVEY CONDUCTED BY AERIAL SURVEYS INC. WATERBURY, CONNECTICUT 06708, PREPARED FOR GIRL SCOUTS OF CONNECTICUT ON APRIL 29, 2022.
3. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG", 1-800-922-4455. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
4. SLR CONSULTING US LLC. ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.
5. INLAND WETLAND BOUNDARY WAS FLAGGED BY: MATTHEW SANFORD, REGISTERED SOIL SCIENTIST AND PRODESSIONAL WETLAND SCIENTIST, AND MEAGHAN FOGARTY, ENVIRONMENTAL SCIENTIST, BOTH OF SLR INTERNATIONAL CORPORATION ON OCTOBER 07, 2022 AS SHOWN ON DRAWING PERIMETER SURVEY LAND OF THE GIRL SCOUTS OF CONNECTICUT, INC. 343 PLAINS ROAD, TOLLAND, CONNECTICUT, DATED 11-09-2022 AND FIELD LOCATED BY GARDNER & PETERSON ASSOCIATES, LLC, 178 HARTFORD TURNPIKE TOLLAND, CONNECTICUT ON NOVEMBER 1, 2022.
6. ALL UTILITY SERVICES ARE TO BE UNDERGROUND. THE EXACT LOCATION AND SIZE OF ELECTRIC, TELEPHONE, CABLE TELEVISION AND GAS ARE TO BE DETERMINED BY THE RESPECTIVE UTILITY COMPANIES.
7. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
8. SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - 2002, AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.
9. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 6" TOPSOIL, AND BE SEEDED WITH GRASS OR SODDED, AS SHOWN ON THE PLANS.
10. ALL STORM DRAIN PIPE SHALL BE SMOOTH LINED CORRUGATED PLASTIC PIPE (SLCPP) UNLESS OTHERWISE INDICATED.
11. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED GRADE.
12. ALL GRAVITY SANITARY SEWER PIPE SHALL BE PVC SDR35 UNLESS OTHERWISE INDICATED.
13. ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE TOWN OF TOLLAND REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 818 AND ADDENDUMS
14. ALL GUTTERS, ROOF DRAINS AND FOUNDATION DRAINS SHALL BE TIED INTO THE PROPOSED STORM DRAINAGE SYSTEM.
15. THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, WATER AUTHORITY, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN, AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE EXECUTION OF WORK. THE ENGINEER WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT OR CORRECT WORK WHICH DOES N0T CONFORM TO LOCAL CODE.
16. ALL FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS SHOULD BE STORED IN A SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NON-WORK HOURS.
17. COMPLIANCE WITH THE PERMIT CONDITIONS IS THE RESPONSIBILITY OF BOTH THE CONTRACTOR AND THE PERMITTEE.
18. PERIMETER SWALES AND RESPECTIVE SILTATION BASINS SHALL BE COMPLETED AND RESTORED PRIOR TO PROCEEDING WITH OTHER SITE CONSTRUCTION.ONST
19. THE PROPERTY OWNER MUST MAINTAIN (REPAIR/REPLACE WHEN NECESSARY) THE SILTATION CONTROL UNTIL ALL DEVELOPMENT ACTIVITY IS COMPLETED AND ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.



PROJECT SITE VICINITY MAP:

SCALE 1" = 500'

PREPARED FOR:

GIRL SCOUTS OF CONNECTICUT,
340 WASHINGTON, STREET
HARTFORD, CT 06106

LIST OF DRAWINGS

PREPARED BY:

SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

811
Know what's **below.**
Call before you dig.
www.cbyd.com

LEGEND

- *PROPERTY LINE*
- 445 *EXISTING MAJOR CONTOUR*
- 444 *EXISTING MINOR CONTOUR*
- *UPLAND REVIEW AREA*
- *TREE LINE*
- *GRAVEL ROAD*
- *EDGE OF PAVEMENT*
- *STONE WALL*
- *WETLAND DELINEATION LINE*
- *WOODEN FENCE*
- ×437.9 *ELEVATION POINT*
- *EXISTING BUILDING*
- *SHRUB/TREE*
- *LIGHT POLE*
- *UTILITY POLE*

N
W E
S

0' 125' 250'
0 1/2" 1"

SLR

99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

INDEX PLAN

CAMP YANKEE TRAILS
SITE IMPROVEMENTS
343 PLAINS ROAD
TOLLAND, CONNECTICUT

PJP	PJP	MTD
DESIGNED	DRAWN	CHECKED

1"=250'
SCALE

OCTOBER 14, 2023
DATE

141.13280.00006
PROJECT NO.

01 OF 26
SHEET NO.

IN
SHEET NAME

WELL AND WATER SUPPLY TANK

TIMBERLINE TROOP HOUSE

SPLIT ROCK

ROCKY LEDGE

GRAVEL ROAD (TYP.)

MYSTIC FOREST CAMP UNIT

WASH STATION

PAVILION

50' UPLAND REVIEW AREA

SINGING PINES CAMP UNIT

PAVILION

50' UPLAND REVIEW AREA

GRAVEL PARKING AREA

DIRECTOR'S CABIN

SHED

FORMER SHOWER HOUSE

DINING HALL

200' UPLAND REVIEW AREA

SITE EXISTING CONDITIONS – DINING HALL, SHOWERHOUSE, & CAMP UNIT -SEE PAGE EX-3

PLAYFIELD A

PLAINS ROAD

HANSON HILL

200' UPLAND REVIEW AREA

STONE HOUSE

GRAVEL ROAD

BITUMINOUS CONCRETE PAVED ENTRY

LAKESIDE PAVILLION

BOWHILL BROOK

SWEETHEART LAKE

BOAT HOUSE

SITE EXISTING CONDITIONS – WATERFRONT -SEE PAGE EX-2

CARETAKER'S HOUSE

NOTE: ALL UTITLITIES SHOWN ARE GRAPHIC IN NATURE.

0' 40' 80'
0 1/2" 1"

SLR

99 REALTY DRIVE
CHELMSFORD, CT 06410
203.271.1773
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

EXISTING CONDITIONS - OVERALL

CAMP YANKEE TRAILS
SITE IMPROVEMENTS
343 PLAINS ROAD
TOLLAND, CONNECTICUT

PJP	PJP	MTD
DESIGNED	DRAWN	CHECKED

1"=80'
SCALE

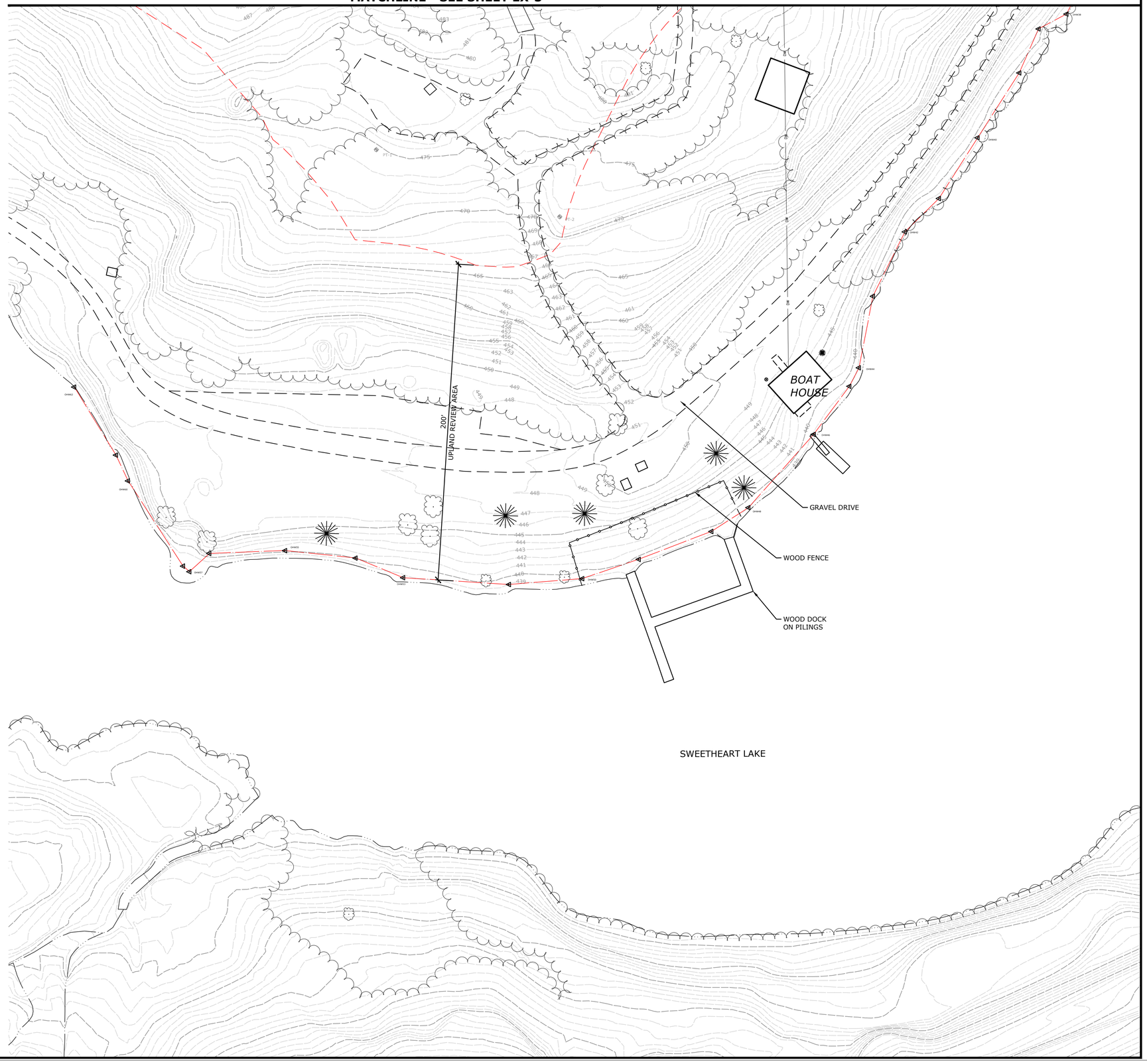
OCTOBER 14, 2023
DATE

141.13280.00006
PROJECT NO.

02 OF 26
SHEET NO.

EX-1
SHEET NAME

MATCHLINE - SEE SHEET EX-3



N
W E
S
0' 15' 30'
0 1/2" 1"

SLR

99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

EXISTING CONDITIONS - WATERFRONT

CAMP YANKEE TRAILS
SITE IMPROVEMENTS
343 PLAINS ROAD
TOLLAND, CONNECTICUT

PJP	PJP	MTD
DESIGNED	DRAWN	CHECKED

SCALE: 1"=30'

DATE: OCTOBER 14, 2023

PROJECT NO.: 141.13280.00006

SHEET NO.: 03 OF 26

SHEET NAME: EX-2

MYSTIC FOREST CAMP UNIT

WASH STATION

PAVILION

WX4

WX2

50' UPLAND REVIEW AREA

WX1

WX6

PLATFORM TENT STRUCTURES (TYP.)

WY11

WY9

WY1

WY7

WY3

WY5

50' UPLAND REVIEW AREA

GRAVEL DRIVE

SINGING PINES CAMP UNIT

PAVILION

INFIRMARY

GRAVEL PARKING AREA

DIRECTOR'S CABIN

SHED

FORMER SHOWER HOUSE

DINING HALL

OHW36

MATCHLINE - SEE SHEET EX-2

N

W E

S

0' 15' 30'

0 1/2" 1"

SLR

99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

EXISTING CONDITIONS - DINING HALL, SHOWERHOUSE, & CAMP UNIT

CAMP YANKEE TRAILS
SITE IMPROVEMENTS
343 PLAINS ROAD
TOLLAND, CONNECTICUT

PJP	PJP	MTD
DESIGNED	DRAWN	CHECKED

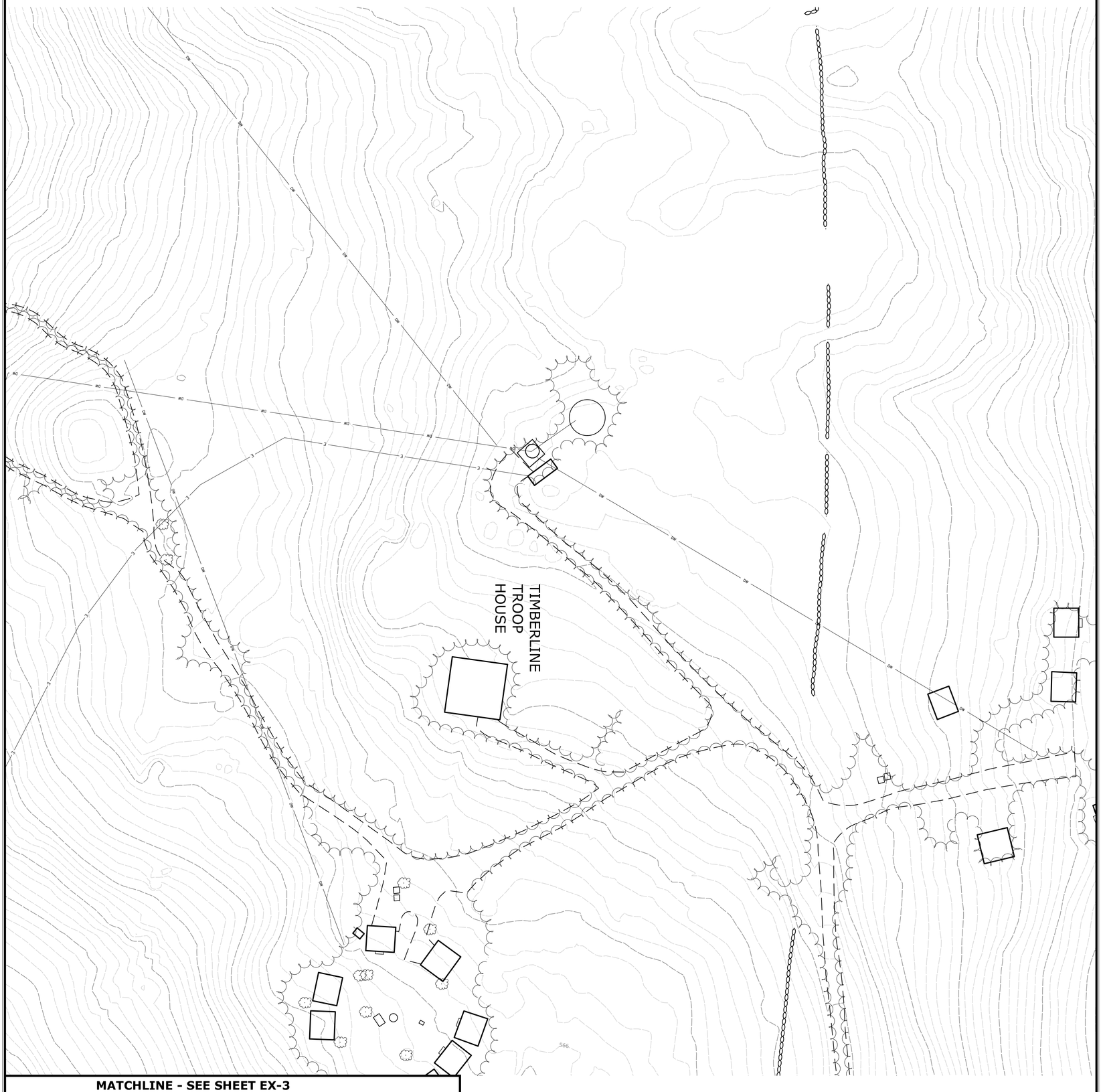
1"=30'
SCALE

OCTOBER 14, 2023
DATE

141.13280.00006
PROJECT NO.

04 OF 26
SHEET NO.

EX-3
SHEET NAME



MATCHLINE - SEE SHEET EX-3

SHEET NAME: **EX-4**

SHEET NO: **05 OF 26**

PROJECT NO: **141.13280.00006**

DATE: **OCTOBER 14, 2023**

SCALE: **1"=30'**

DESIGNED: PJP | DRAWN: PJP | CHECKED: MTD

EXISTING CONDITIONS - WATER SUPPLY

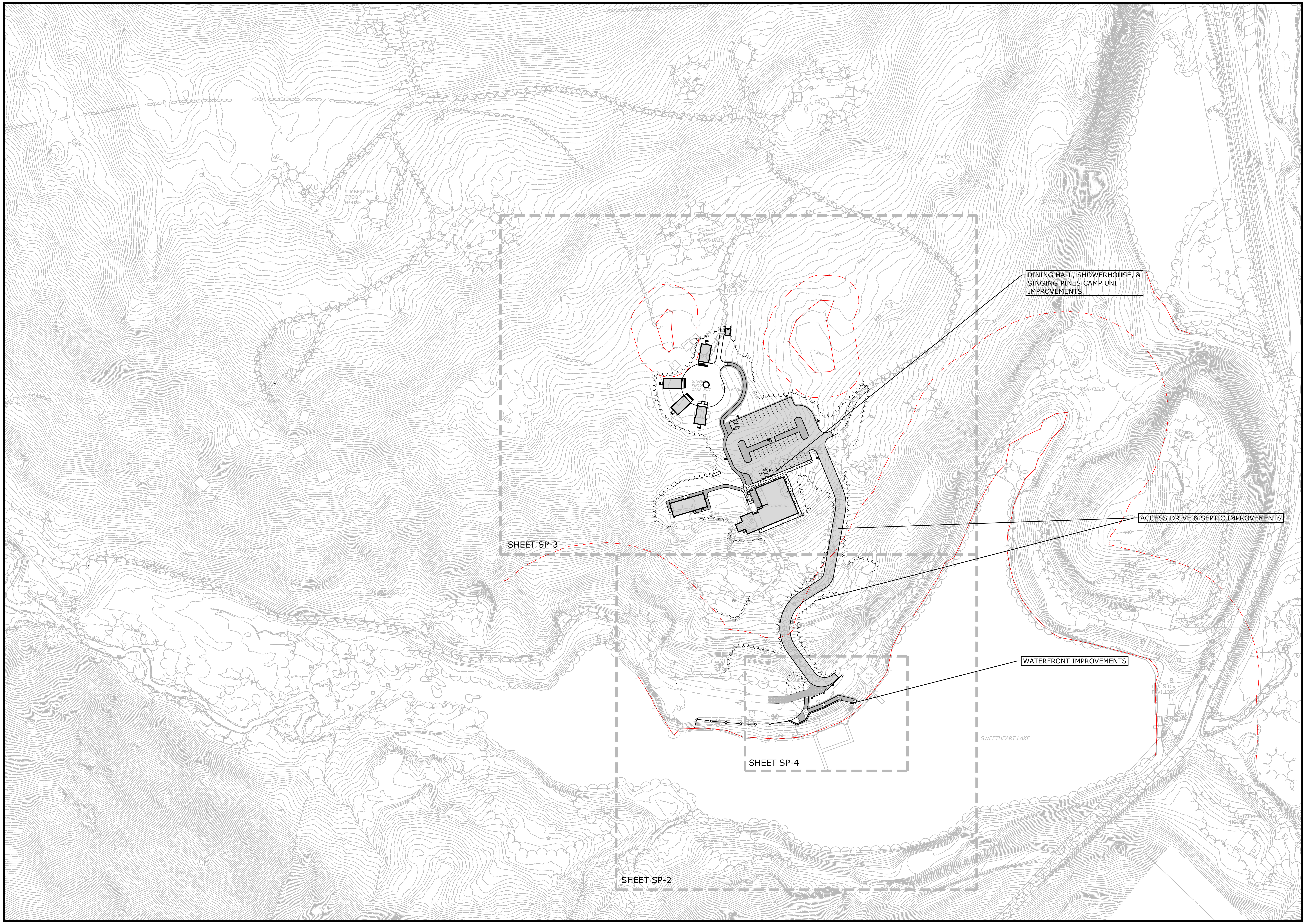
CAMP YANKEE TRAILS
SITE IMPROVEMENTS

343 PLAINS ROAD
TOLLAND, CONNECTICUT

PROGRESS

DESCRIPTION	DATE	BY

SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM



SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

SITE PLAN - OVERALL

CAMP YANKEE TRAILS
SITE IMPROVEMENTS

343 PLAINS ROAD
TOLLAND, CONNECTICUT

MTD	PJP	MTD
DESIGNED	DRAWN	CHECKED

SCALE: 1"=80'

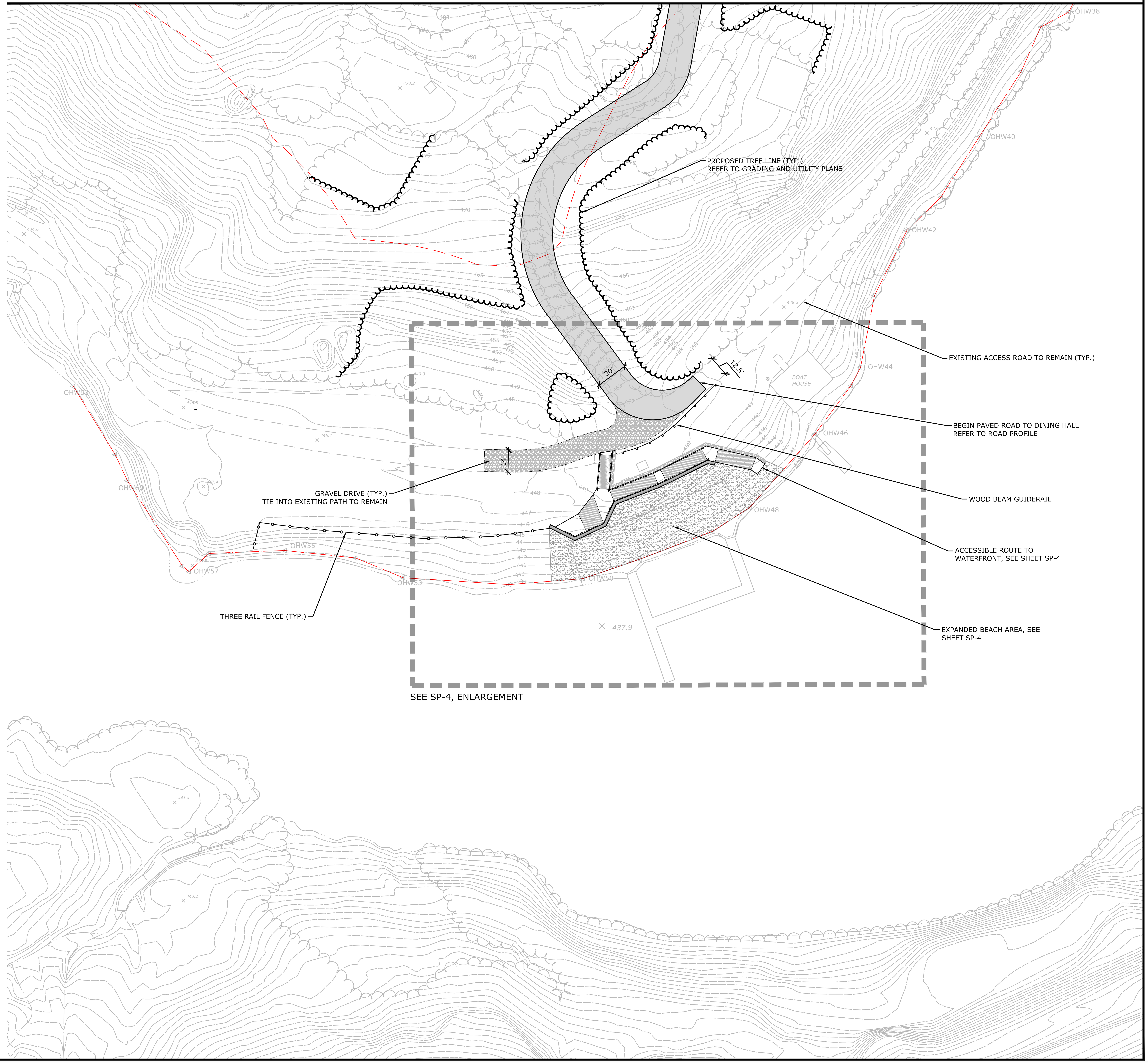
DATE: OCTOBER 14, 2023

PROJECT NO.: 141.13280.00006

SHEET NO.: 06 OF 26

SHEET NAME: SP-1

MATCHLINE - SEE SHEET SP-3



N S E W
0' 15' 30'
0 1/2" 1"

SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

SITE PLAN - WATERFRONT

CAMP YANKEE TRAILS
SITE IMPROVEMENTS

343 PLAINS ROAD
TOLLAND, CONNECTICUT

MTD	PJP	MTD
DESIGNED	DRAWN	CHECKED

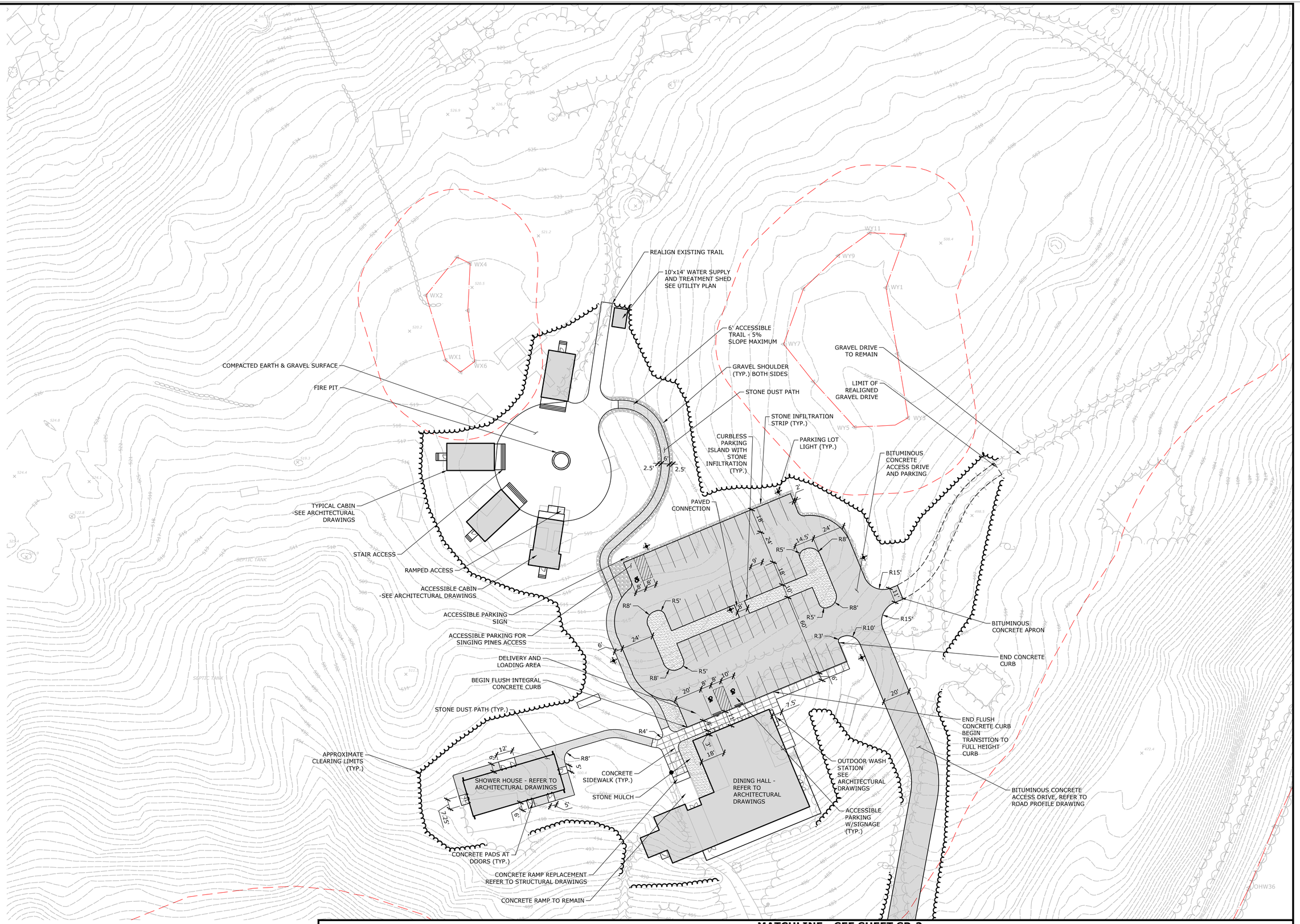
SCALE: 1"=30'

DATE: OCTOBER 14, 2023

PROJECT NO.: 141.13280.00006

SHEET NO.: 07 OF 26

SHEET NAME: SP-2



SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

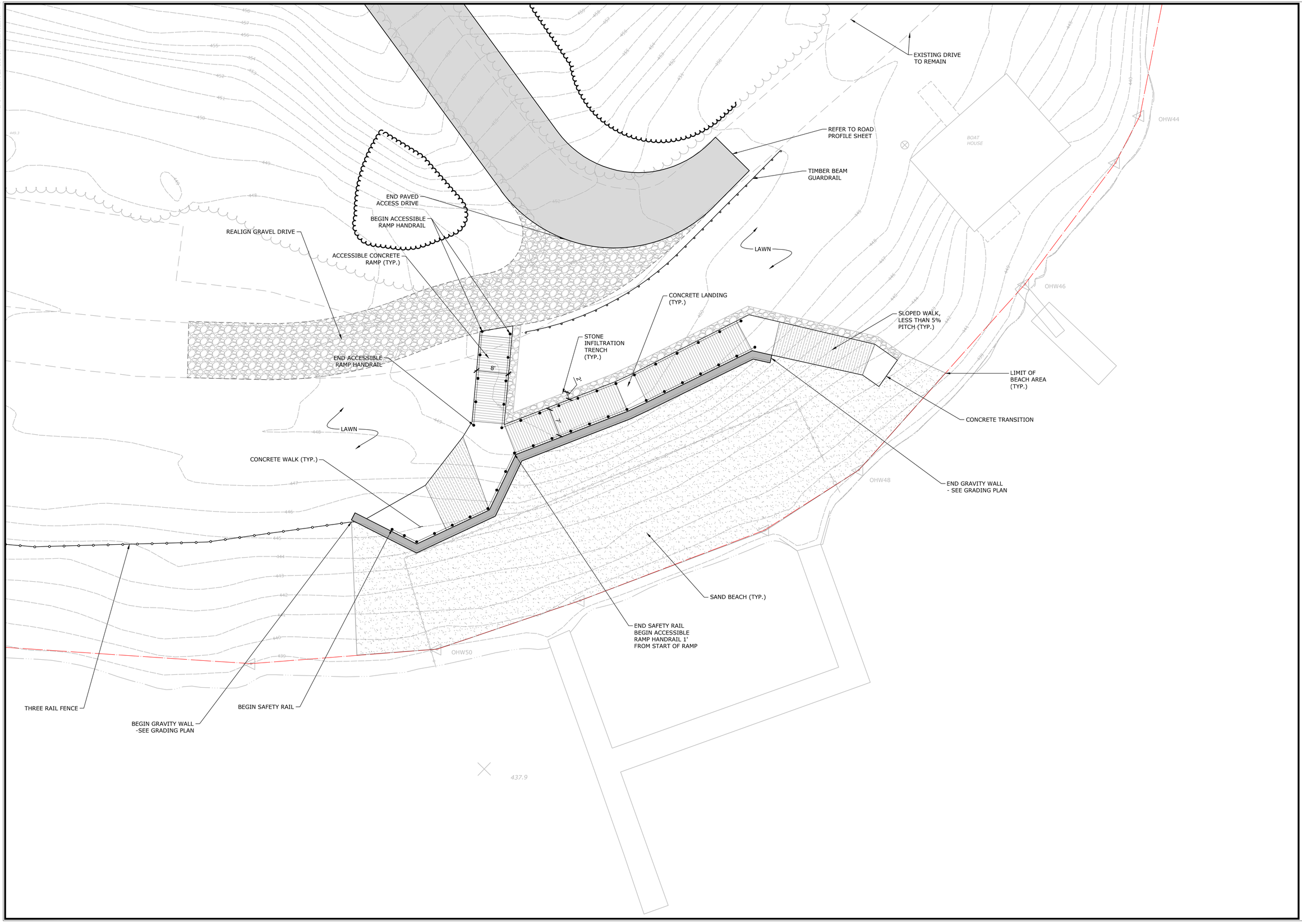
DESCRIPTION	DATE	BY

SITE PLAN - DINING HALL, SHOWERHOUSE, & CAMP UNIT

CAMP YANKEE TRAILS
SITE IMPROVEMENTS
343 PLAINS ROAD
TOLLAND, CONNECTICUT

MTD	PJP	MTD
DESIGNED	DRAWN	CHECKED

SCALE	1"=30'
DATE	OCTOBER 14, 2023
PROJECT NO.	141.13280.00006
SHEET NO.	08 OF 26
SHEET NAME	SP-3



SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

SITE PLAN - WATERFRONT ENLARGEMENT

CAMP YANKEE TRAILS
SITE IMPROVEMENTS
343 PLAINS ROAD
TOLLAND, CONNECTICUT

MTD	PJP	MTD
DESIGNED	DRAWN	CHECKED

1"=10'
SCALE

OCTOBER 14, 2023
DATE

141.13280.00006
PROJECT NO.

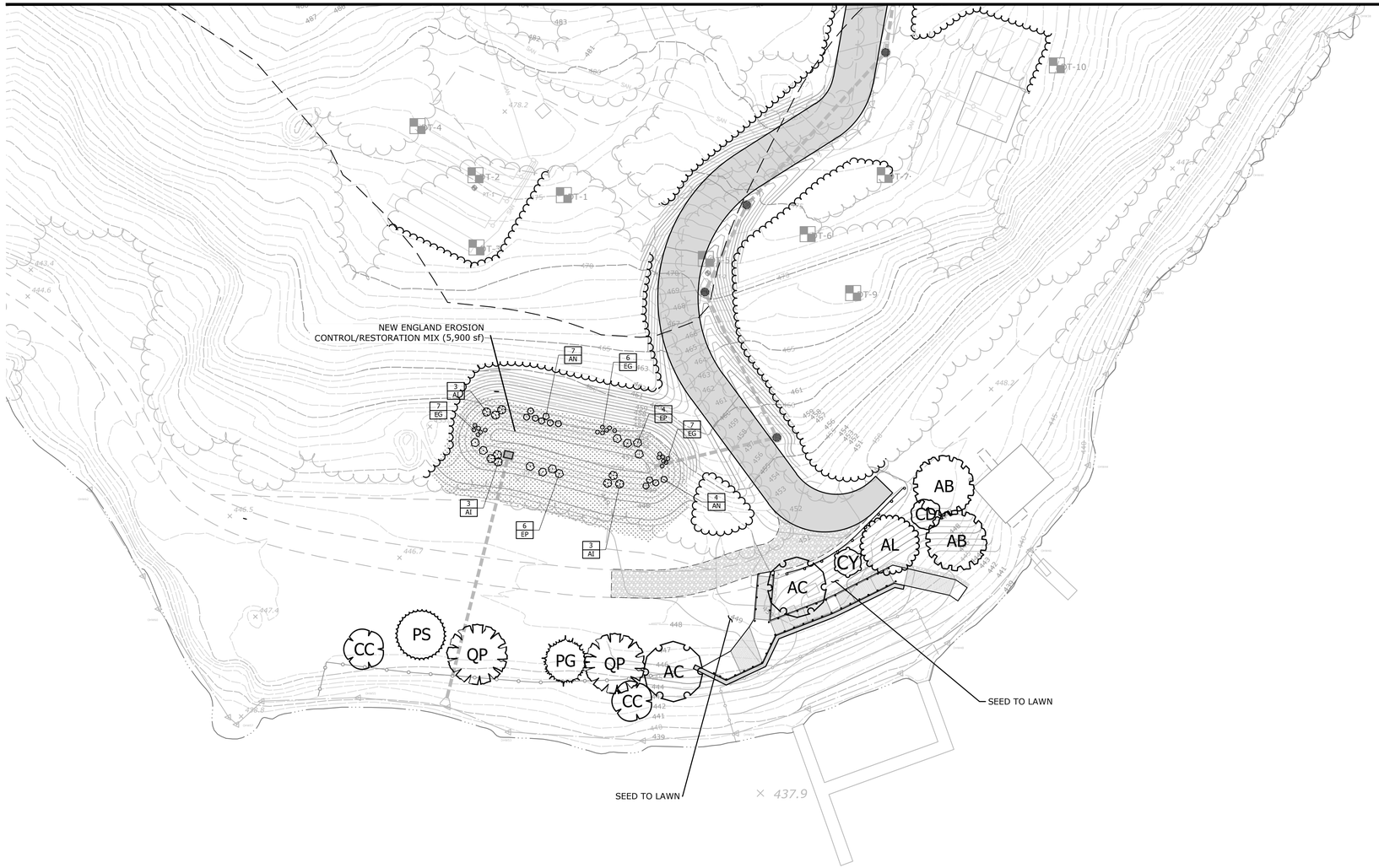
09 OF 26
SHEET NO.

SP-4
SHEET NAME

PLANTING NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATING PLANT PITS.
2. SEED ALL DISTURBED AREAS TO LAWN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE A 6" MINIMUM DEPTH OF SCREENED TOPSOIL, AS SPECIFIED, FOR ALL LAWN AREAS. AS NOTED ON THE DETAILS, SUBGRADE BENEATH PROPOSED LAWN AREAS SHALL BE LOOSENED OR SCARIFIED TO A MINIMUM DEPTH OF 24 INCHES.
3. ALL PLANTING BEDS SHALL HAVE 12" MINIMUM DEPTH OF TOPSOIL.
4. THE CONTRACTOR SHALL PROVIDE A 4" MIN. DEPTH OF SHREDDED BARK MULCH OVER ALL PLANTING BEDS AND TREE PLANTINGS. MULCHED PLANT BEDS SHALL EXTEND 12" FURTHER THAN THE ADJACENT PLANTINGS. NO DYED MULCH.
5. ALL PLANT MATERIAL IS SUBJECT TO INSPECTION AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO AND AFTER PLANTING.
6. PLANT SPECIES MAY BE ADJUSTED BASED ON AVAILABILITY AT TIME OF PLANTING. ALL PLANT MATERIAL SUBSTITUTIONS ARE SUBJECT TO REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT.
7. ALL PLANT MATERIALS SHALL CARRY A FULL GUARANTEE FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE, TO INCLUDE PROMPT TREATMENT OR REMOVAL AND REPLACEMENT OF ANY PLANTS FOUND TO BE IN AN UNHEALTHY CONDITION BY THE LANDSCAPE ARCHITECT. ALL REPLACEMENTS SHALL BE OF THE SAME KIND AND SIZE OF PLANTS SPECIFIED IN THE PLANT LIST.
8. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING AND SHALL CONTINUE UNTIL ACCEPTANCE BY THE LANDSCAPE ARCHITECT AT THE END OF THE WARRANTY PERIOD. MAINTENANCE SHALL INCLUDE WATERING, MULCHING, TIGHTENING & REPLACING OF GUYS, REPLACEMENT OF SICK OR DEAD PLANTS, RESETTING PLANTS TO PROPER GRADE OR UPRIGHT (PLUMB) POSITION, RESTORATION OF SAUCERS, AND ALL OTHER CARE NEEDED FOR PROPER GROWTH OF THE PLANTS.
9. WHERE A SIZE RANGE IS SPECIFIED AT LEAST 50% OF PLANTS PROVIDED SHALL BE OF THE LARGER SIZE.
10. CONTRACTOR TO REMOVE TREE STAKES AFTER ONE GROWING SEASON.
11. TAKE NOTE TO PROTECT ROOT ZONES OF EXISTING TREES ROOT ZONES DURING CONSTRUCTION AS SHOWN ON PLANS.

MATCHLINE - SEE SHEET LS-2



PLANT SCHEDULE WATERFRONT

EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT.
PG	1	PICEA GLAUCA	WHITE SPRUCE	6` HT. MIN.	B&B
PS	2	PINUS STROBUS	WHITE PINE	6` HT. MIN.	B&B
ORNAMENTAL TREES	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**CONT.**
CC	2	CERCIS CANADENSIS	EASTERN REDBUD	8`/10` HT.	B&B
CY	1	CERCIS CANADENSIS 'BURGUNDY HEARTS'	BURGUNDY HEARTS EASTERN REDBUD	8`/10` HT.	B&B
CD	1	CORNUS FLORIDA 'CHEROKEE CHIEF'	CHEROKEE CHIEF DOGWOOD	8`/10` HT.	B&B
SHADE TREES	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**CONT.**
AB	2	ACER RUBRUM 'BRANDYWINE'	BRANDYWINE RED MAPLE	2.5"-3.0" CAL.	B&B
AL	1	ACER SACCHARUM 'LEGACY'	LEGACY SUGAR MAPLE	2.5"-3.0" CAL.	B&B
AC	1	AESCULUS X CARNEA 'BRIOTII'	BRIOTII RED HORSECHESTNUT	2.5"-3.0" CAL.	B&B
QP	2	QUERCUS PALUSTRIS	PIN OAK	2.5"-3.0" CAL.	B&B
PERENNIALS	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**CONT.**
AI	9	ASCLEPIAS INCARNATA	SWAMP MILKWEED	CONT.	#3
AN	11	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	CONT.	#3
EP	10	EUPATORIUM PERFOLIATUM	COMMON BONESET	CONT.	#3
EG	20	EUTHAMIA GRAMINIFOLIA	GRASS-LEAFED GOLDENROD	CONT.	#3

NEW ENGLAND EROSION CONTROL/RESTORATION MIX 4,161 SF
PRODUCED BY NEW ENGLAND WETLAND PLANTS
14 PEARL LANE
SOUTH HADLEY, MA 01075
(413)-548-8000

ALL DISTURBED AREAS DESIGNATED AS LAWN SHALL BE SEEDED WITH 5311 CONSERVATION MIX BY ERNST CONSERVATION SEEDS

SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203-271-1773
SLRCONSULTING.COM

DESCRIPTION | DATE | BY

LANDSCAPING - WATERFRONT
CAMP YANKEE TRAILS
SITE IMPROVEMENTS
343 PLAINS ROAD
TOLLAND, CONNECTICUT

MTD	PJP	MTD
DESIGNED	DRAWN	CHECKED

SCALE: 1"=30'
DATE: OCTOBER 14, 2023
PROJECT NO.: 141.13280.00006
SHEET NO.: 10 OF 26
SHEET NAME: LS-1

PLANT SCHEDULE DINING HALL

EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT.
PG	2	PICEA GLAUCA	WHITE SPRUCE	6` HT. MIN.	B&B
PS	2	PINUS STROBUS	WHITE PINE	6` HT. MIN.	B&B

ORNAMENTAL TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT.
CC	4	CERCIS CANADENSIS	EASTERN REDBUD	8`/10` HT.	B&B
CY	2	CERCIS CANADENSIS 'BURGUNDY HEARTS'	BURGUNDY HEARTS EASTERN REDBUD	8`/10` HT.	B&B
CD	1	CORNUS FLORIDA 'CHEROKEE CHIEF'	CHEROKEE CHIEF DOGWOOD	8`/10` HT.	B&B

SHADE TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT.
AA	4	ACER RUBRUM 'ARMSTRONG'	ARMSTRONG RED MAPLE	2.5"-3.0" CAL.	B&B
AB	4	ACER RUBRUM 'BRANDYWINE'	BRANDYWINE RED MAPLE	2.5"-3.0" CAL.	B&B
AL	2	ACER SACCHARUM 'LEGACY'	LEGACY SUGAR MAPLE	2.5"-3.0" CAL.	B&B
AC	2	AESCULUS X CARNEA 'BRIOTII'	BRIOTII RED HORSECHESTNUT	2.5"-3.0" CAL.	B&B
QP	3	QUERCUS PALUSTRIS	PIN OAK	2.5"-3.0" CAL.	B&B
UP	5	ULMUS AMERICANA 'PRINCETON'	PRINCETON AMERICAN ELM	2.5"-3.0" CAL.	B&B

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT.
IS	6	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY	CONT.	#3
KL	5	KALMIA LATIFOLIA	MOUNTAIN LAUREL	CONT.	#3
RM	17	RHODODENDRON MAXIMUM	ROSEBAY RHODODENDRON	CONT.	#3
VH	3	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	CONT.	#3
VN	20	VIBURNUM NUDUM 'WINTERTHUR'	WINTERTHUR VIBURNUM	CONT.	#3

RIGHT-OF-WAY NATIVE WOODS MIX W/ANNUAL RYEGRASS — 48,072 SF
PRODUCED BY ERNST CONSERVATION SEED
8884 MERCER PIKE
MEADVILLE, PA 16335
(800)-873-3321

SEE SHEET LP-1 FOR PLANTING NOTES

RIGHT-OF-WAY NATIVE WOODS MIX W/ANNUAL RYEGRASS (48,072 sf)

MATCHLINE - SEE SHEET LS-1

SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

LANDSCAPING - DINING HALL, SHOWERHOUSE, & CAMP UNIT
CAMP YANKEE TRAILS
SITE IMPROVEMENTS
343 PLAINS ROAD
TOLLAND, CONNECTICUT

MTD	PJP	MTD
DESIGNED	DRAWN	CHECKED

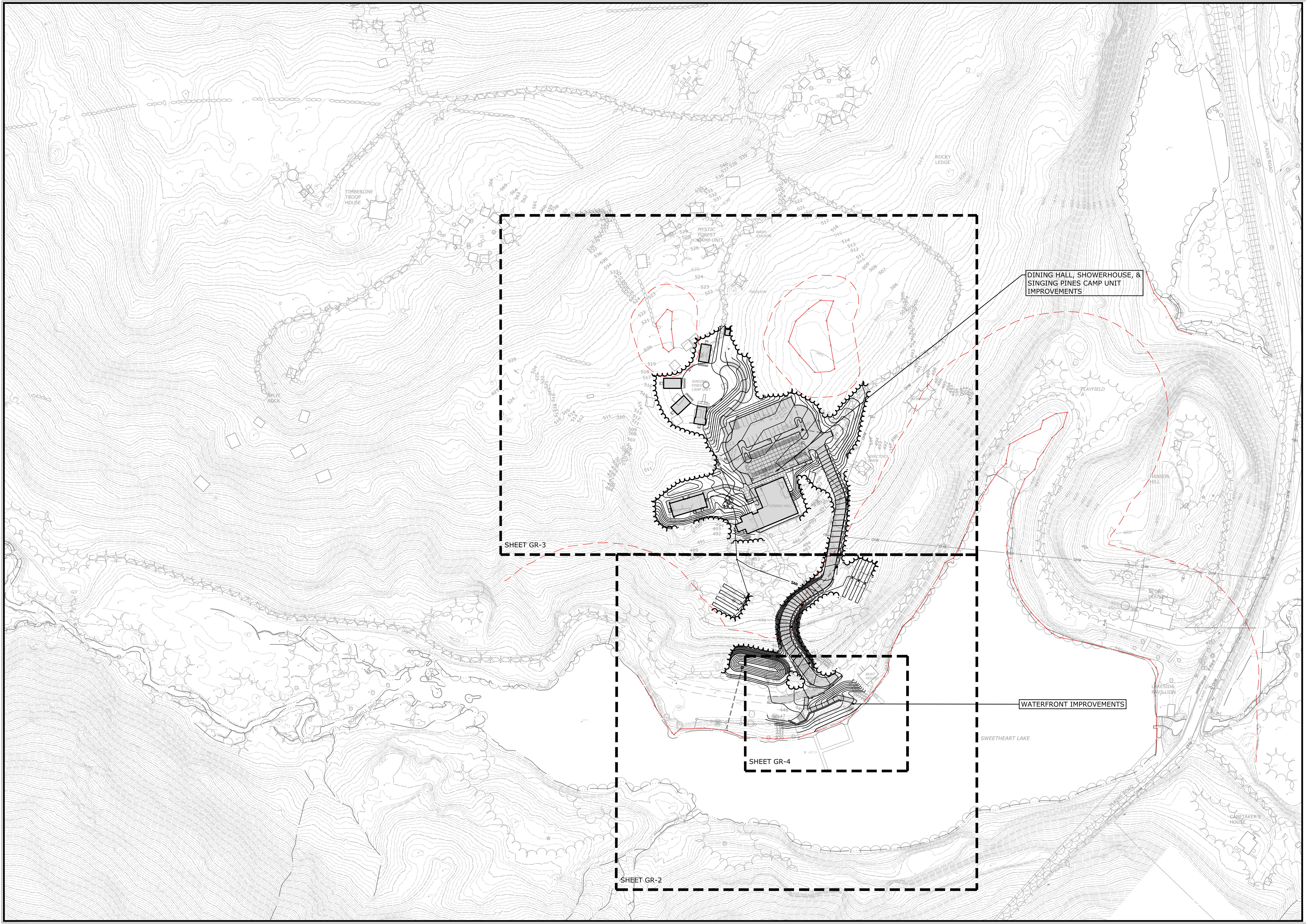
1"=30'
SCALE

OCTOBER 14, 2023
DATE

141.13280.00006
PROJECT NO.

11 OF 26
SHEET NO.

LS-2
SHEET NAME



SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

GRADING OVERALL

CAMP YANKEE TRAILS
SITE IMPROVEMENTS

343 PLAINS ROAD
TOLLAND, CONNECTICUT

MTD	PJP	MTD
DESIGNED	DRAWN	CHECKED

SCALE: 1"=60'

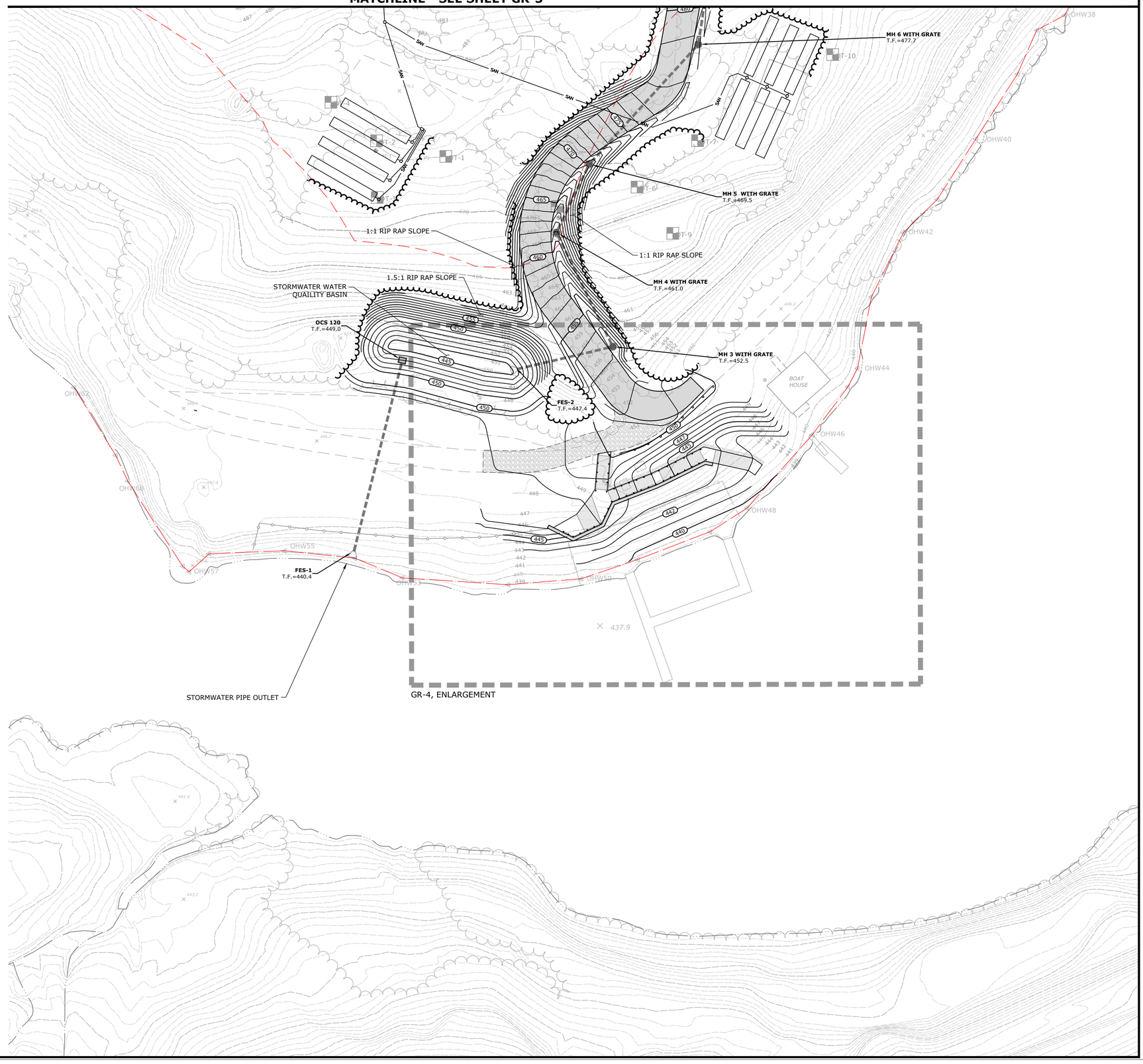
DATE: OCTOBER 14, 2023

PROJECT NO.: 141.13280.00006

SHEET NO.: 12 OF 26

SHEET NAME: GR-1

MATCHLINE - SEE SHEET GR-3



GR-4, ENLARGEMENT

SLR

99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

GRADING, UTILITIES AND SEDIMENT AND EROSION COINTROLS
WATERFRONT

CAMP YANKEE TRAILS
SITE IMPROVEMENTS

343 PLAINS ROAD
TOLLAND, CONNECTICUT

MTD	PJP	MTD
DESIGNED	DRAWN	CHECKED

SCALE: 1"=30'

DATE: OCTOBER 14, 2023

PROJECT NO.: 141.13280.00006

SHEET NO.: 13 OF 26

SHEET NAME: **GR-2**

STONE INFILTRATION TRENCH WITH
PERFORATED UNDER DRAIN
SEE UTILITY PLAN

MH 14 WITH GRATE
T.F.=506.2

MH 9
T.F.=506.3

AD 16
T.F.=508.3

CLCB 13
T.F.=505.0

MH 8
T.F.=505.6

75 STORMTECH MC-3500 UNDERGROUND CHAMBERS
SEE UTILITY PLAN

MH 10
T.F.=504.8

TC 504.8
BC 504.8

CLCB 11
T.F.=504.0

TC 504.5
BC 504.0

TC 505.0
BC 504.5

TC 505.0
BC 505.0
TRANSITION TO
FULL HEIGHT
CURB

MH 7 WITH GRATE
T.F.=488.5

REFER TO ROAD PROFILE
FOR MORE INFORMATION

AD 15
T.F.=507.4

CLCB 12
T.F.=506.0

PERFORATED UNDER DRAIN
S=0.5% MIN.

UNDER DRAIN DISCHARGE

SHOWER HOUSE
FF=502.4

DINING HALL
FF=506.73

502.38
ALL DOORS

506.71
ALL DOORS

MATCH LINE AND GRADE AT
RAMP TO REMAIN
V.I.F.

SEPTIC TANK

SEPTIC TANK

MATCHLINE - SEE SHEET GR-2

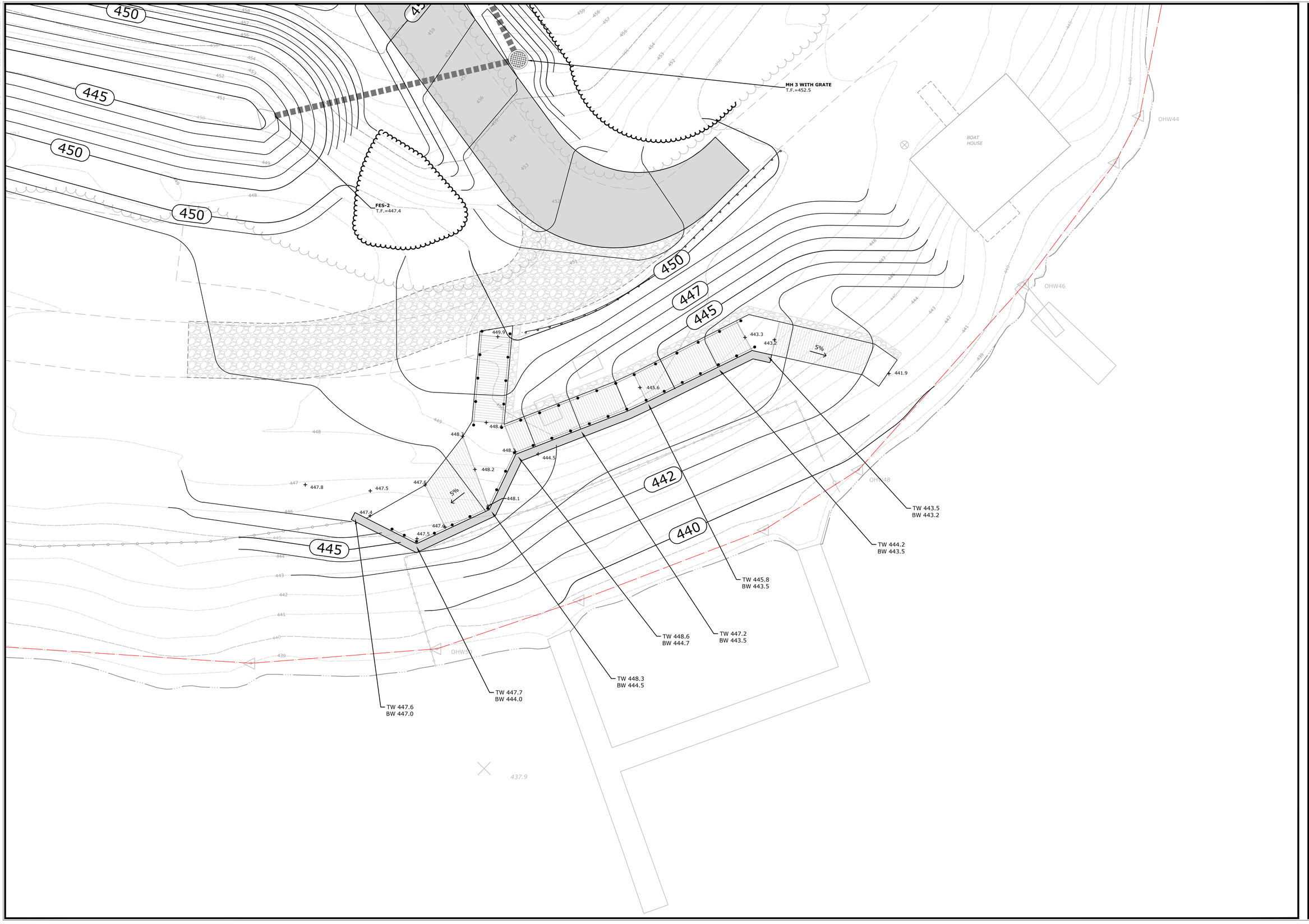
SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

GRADING - DINING HALL, SHOWERHOUSE, & CAMP UNIT
CAMP YANKEE TRAILS
SITE IMPROVEMENTS
343 PLAINS ROAD
TOLLAND, CONNECTICUT

MTD	PJP	MTD
DESIGNED	DRAWN	CHECKED

SCALE: 1"=30'
DATE: OCTOBER 14, 2023
PROJECT NO.: 141.13280.00006
SHEET NO.: 14 OF 26
SHEET NAME: GR-3



SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203 271 1773
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

GRADING - WATERFRONT ENLARGEMENT
CAMP YANKEE TRAILS SITE IMPROVEMENTS
343 PLAINS ROAD
TOLLAND, CONNECTICUT

MTD	PJP	MTD
DESIGNED	DRAWN	CHECKED

SCALE: 1"=10'

DATE: OCTOBER 14, 2023

PROJECT NO.: 141.13280.00006

SHEET NO.: 15 OF 26

SHEET NAME: GR-4

BACKWASH DISCHARGE TO DRY WELL
SIZE AND TYPE TO BE CONFIRMED

10'x14' WATER SUPPLY AND
TREATMENT BUILDING
PROVIDE ELECTRICAL FEED

1-1/2" DINING HALL DISTRIBUTION LINE
SIZE AND TYPE TO BE CONFIRMED

WELL SUPPLY LINE
SIZE AND TYPE TO BE CONFIRMED

FIRE TANK DISTRIBUTION LINE
SIZE AND TYPE TO BE CONFIRMED

POTENTIAL WELL LOCATION
TO BE CONFIRMED WITH
TESTING

DRY WELL
75' MINIMUM FROM WELL

75'

25'

STONE INFILTRATION TRENCH WITH PERFORATED UNDER DRAIN
S=0.5% MIN.

SITE LIGHT, TYPICAL OF 6
SEE MEP DRAWINGS

AD 16
T.F.=508.3
INV.=502.4(S)

66'-8" 8" HDPE
S=2.12%

MH 14 WITH GRATE
T.F.=506.2
INV.=501.0(N)
INV.=501.0(SW)
INV.=501.0(E)

34'-12" 12" HDPE
S=1.47%

CLCB 13
T.F.=505.0
INV.=501.5(W)

MH 9
T.F.=506.3
INV.=500.8(NE)

13'-15" 15" HDPE
S=1.54%

2'-18" 18" HDPE
S=0.00%

MH 8
T.F.=505.6
INV.=500.3(SE)
INV.=500.3(SW)

75 STORMTECH MC-3500 UNDERGROUND CHAMBERS
TOP OF STONE ELEV.=504.0
TOP OF CHAMBER ELEV.=503.0
CHAMBER INV.=499.25
BOTTOM OF STONE ELEV.=498.75

MH 10
T.F.=504.8
INV.=499.3(SE)

142'-12" 12" HDPE
S=10.00%

CLCB 11
T.F.=504.0
INV.=500.0(W)
INV.=500.0(NW)

11'-15" 15" HDPE
S=6.36%

120'-12" 12" HDPE
S=1.67%

MH 7 WITH GRATE
T.F.=488.5
INV.=483.5(S)
INV.=486.1(NW)

133'-15" 15" HDPE
S=6.24%

ACCESSIBLE CABIN DISTRIBUTION LINE
(NON-WINTERIZED)
CONNECT TO EXISTING PIPING SYSTEM
VERIFY IN FIELD

4" SCH 40 PVC FROM
BUILDINGS TO TANKS
(TYPICAL OF 4)

(1) 1,000 GAL.
PROPANE TANK
SEE MEP PLANS

SHOWERHOUSE DISTRIBUTION LINE
(NON-WINTERIZED)
CONNECT TO EXISTING PIPING SYSTEM
VERIFY IN FIELD

AD 15
T.F.=507.4

PERFORATED UNDER DRAIN
S=0.5% MIN.

CLCB 12
T.F.=506.0
INV.=502.0(E)

(3) 2500 GAL PRECAST
SEPTIC TANKS (3 TOTAL)

UNDER DRAIN DISCHARGE

(1) 1000 GAL PRECAST
GREASE INTERCEPTOR
TANK

SINGING
PINES
CAMP UNIT

DINING HALL

COUNTRY ROAD

INFIRMARY

DIRECTOR'S
CABIN

NOTE:
EXISTING UTILITIES SHOWN ARE
GRAPHIC IN NATURE ONLY

MATCH LINE: SEE UT-2

MATCH LINE: SEE UT-2

N
W E
S

0' 10' 20'
0 1/2" 1"

SLR

99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

SITE PLAN - UTILITIES

CAMP YANKEE TRAILS
SITE IMPROVEMENTS
343 PLAINS ROAD
TOLLAND, CONNECTICUT

SMM	SMM	TDR
DESIGNED	DRAWN	CHECKED

1"=20'
SCALE

OCTOBER 14, 2023
DATE

141.13280.00006
PROJECT NO.

16 OF 26
SHEET NO.

UT-1
SHEET NAME

MATCH LINE: SEE UT-1

MATCH LINE: SEE UT-1

4" SDR 35 PVC

DISTRIBUTION BOX (TYP.)

SEPTIC FIELD

192 L.F. OF CURTECH CTL 48
LEACHING GALLERIES

1:1 RIP RAP SLOPE

1.5:1 RIP RAP SLOPE

STORMWATER WATER
QUAILITY BASIN

100'-15" 15" HDPE
S=8.50%

MH 6 WITH GRATE
T.F.=477.7
INV.=475.2(N)
INV.=474.7(SW)

MH 5 WITH GRATE
T.F.=469.5
INV.=466.2(NE)
INV.=462.5(SW)

47'-15" 15" HDPE
S=9.15%

1:1 RIP RAP SLOPE

MH 4 WITH GRATE
T.F.=461.0
INV.=456.5(SE)
INV.=458.2(NE)

78'-15" 15" HDPE
S=9.36%

MH 3 WITH GRATE
T.F.=452.5
INV.=449.2(NW)
INV.=449.2(W)

61'-15" 15" HDPE
S=6.89%

OCS 120
T.F.=449.0
INV.=445.0(S)

FES-2
T.F.=447.4
INV.=445.0(E)

125'-15" 15" HDPE
S=4.00%

FES-1
T.F.=440.4
INV.=440.0(N)

240 L.F. OF CURTECH CTL 48
LEACHING GALLERIES

BOAT
HOUSE

OHW62 OHW60 OHW57 OHW55 OHW53 OHW50 OHW48 OHW46 OHW44 OHW42 OHW40

480 475 470 465 460 455 450 445 447 442 440

SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

SITE PLAN - UTILITIES

CAMP YANKEE TRAILS
SITE IMPROVEMENTS
343 PLAINS ROAD
TOLLAND, CONNECTICUT

SMM	SMM	TDR
DESIGNED	DRAWN	CHECKED

1"=20'
SCALE

OCTOBER 14, 2023
DATE

141.13280.00006
PROJECT NO.

17 OF 26
SHEET NO.

UT-2
SHEET NAME

SOIL EROSION AND SEDIMENT CONTROL NARRATIVE

SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - 2002, TOWN OF TOLLAND REQUIREMENTS, AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.

1.PURPOSE AND DESCRIPTION OF PROJECT
A.) VARIOUS IMPROVEMENTS TO CAMP YANKEE WHICH INCLUDE PARKING LOT/ROAD CONSTRUCTION AND UTILITY UPGRADES
B.) DISTURBED AREA: ±3.0 AC

2.IDENTIFICATION OF EROSION AND SEDIMENT CONTROL CONCERNS
A.) CUTS AND FILLS ASSOCIATED WITH CONSTRUCTION
B.) PROTECTION OF ONSITE DRAINAGE SYSTEMS
C.) PROTECTION OF ONSITE WETLANDS & WATERCOURSES

3.IDENTIFICATION OF OTHER POSSIBLE PERMITS
THE PERMITS REQUIRED FOR THE PROJECT ARE LOCAL PLANNING AND ZONING PERMITS.

EROSION CONTROL LEGEND

HB	HAY BALES
SFF	SEDIMENT FILTER FENCE
IP	INLET PROTECTION
STK	SOIL STOCKPILE AREA
WB	WATER BAR

SFF (TYP.)
HB (TYP.)
STK
IP (TYP.)
IP (TYP.)
WB (TYP.)
SINGING PINES CAMP UNIT
DINING HALL
INFIRMARY
DIRECTOR'S CABIN

MATCH LINE: SEE SE-2
MATCH LINE: SEE SE-2

SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

SEDIMENT & EROSION CONTROLS

CAMP YANKEE TRAILS
SITE IMPROVEMENTS
343 PLAINS ROAD
TOLLAND, CONNECTICUT

SMM	SMM	TDR
DESIGNED	DRAWN	CHECKED

1"=20'
SCALE

OCTOBER 14, 2023
DATE

141.13280.00006
PROJECT NO.

18 OF 26
SHEET NO.

SE-1
SHEET NAME

MATCH LINE: SEE SE-1

MATCH LINE: SEE SE-1

N

W E

S

0 10' 20'

0 1/2" 1"

SLR

99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

SEDIMENT & EROSION CONTROLS

CAMP YANKEE TRAILS SITE IMPROVEMENTS

343 PLAINS ROAD
TOLLAND, CONNECTICUT

SMM	SMM	TDR
DESIGNED	DRAWN	CHECKED

1"=20'
SCALE

OCTOBER 14, 2023
DATE

141.13280.00006
PROJECT NO.

19 OF 26
SHEET NO.

SE-2
SHEET NAME

SEDIMENT & EROSION CONTROL SPECIFICATIONS

GENERAL:

THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION, AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.

IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES, AND WATER BODIES, AND TO PREVENT, INSOFAR AS POSSIBLE, EROSION ON THE SITE.

LAND GRADING

GENERAL:

1. THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES, SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:

   a. THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).

   b. THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).

   c. THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO FOUR VERTICAL (1:4).

   d. PROVISION SHOULD BE MADE TO CONDUCT SURFACE WATER SAFELY TO STORM DRAINS TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES

   e. EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT PROTECTING SUCH PROPERTY FROM EROSION, SLIDING, SETTLING, OR CRACKING.

   f. NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE OR WASH UPON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT WETLANDS, WATERCOURSES, OR WATER BODIES.

   g. PRIOR TO ANY RE-GRADING, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.

TOPSOILING

GENERAL:

1. TOPSOIL SHALL BE SPREAD OVER ALL EXPOSED AREAS IN ORDER TO PROVIDE A SOIL MEDIUM HAVING FAVORABLE CHARACTERISTICS FOR THE ESTABLISHMENT, GROWTH, AND MAINTENANCE OF VEGETATION.
2. UPON ATTAINING FINAL SUBGRADES, SCARIFY SURFACE TO PROVIDE A GOOD BOND WITH TOPSOIL.
3. REMOVE ALL LARGE STONES, TREE LIMBS, ROOTS AND CONSTRUCTION DEBRIS.

APPLY LIME ACCORDING TO SOIL TEST RECOMMENDATIONS

MATERIAL:

1. TOPSOIL SHOULD HAVE PHYSICAL, CHEMICAL, AND BIOLOGICAL CHARACTERISTICS FAVORABLE TO THE GROWTH OF PLANTS.
2. TOPSOIL SHOULD HAVE A SANDY OR LOAMY TEXTURE.
3. TOPSOIL SHOULD BE RELATIVELY FREE OF SUBSOIL MATERIAL AND MUST BE FREE OF STONES (OVER 1" IN DIAMETER), LUMPS OF SOIL, ROOTS, TREE LIMBS, TRASH, OR CONSTRUCTION DEBRIS. IT SHOULD BE FREE OF ROOTS OR RHIZOMES SUCH AS THISTLE, NUTGRASS, AND QUACKGRASS.
4. AN ORGANIC MATTER CONTENT OF SIX PERCENT (6%) IS REQUIRED. AVOID LIGHT COLORED SUBSOIL MATERIAL.
5. SOLUBLE SALT CONTENT OF OVER 500 PARTS PER MILLION (PPM) IS LESS SUITABLE. AVOID TIDAL MARSH SOILS BECAUSE OF HIGH SALT CONTENT AND SULFUR ACIDITY.
6. THE pH SHOULD BE MORE THAN 6.0. IF LESS, ADD LIME TO INCREASE pH TO AN ACCEPTABLE LEVEL.

APPLICATION

AVOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.

SPREAD TOPSOIL UNIFORMLY TO A DEPTH OF AT LEAST SIX INCHES (6"), OR TO THE DEPTH SHOWN ON THE PLANS, DETAILS AND SPECIFICATIONS.

TEMPORARY VEGETATIVE COVER

GENERAL:

1. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL UNPROTECTED AREAS THAT PRODUCE SEDIMENT, AREAS WHERE FINAL GRADING HAS BEEN COMPLETED, AND AREAS WHERE THE ESTIMATED PERIOD OF BARE SOIL EXPOSURE IS LESS THAN 12 MONTHS. TEMPORARY VEGETATIVE COVER SHALL BE APPLIED IF AREAS WILL NOT BE PERMANENTLY SEEDED BY SEPTEMBER 1.

SITE PREPARATION:

1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
3. APPLY DOLOMITIC LIMESTONE ACCORDING TO SOIL TEST RECOMMENDATIONS
4. APPLY FERTILIZER ACCORDING TO SOIL TEST OR AT THE RATE OF 300 LBS. OF 10-10-10 PER ACRE (7 LBS. PER 1,000 SQ. FT.) AND SECOND APPLICATION OF 200 LBS. OF 10-10-10- (5 LBS. PER 1,000 SQ. FT.) WHEN GRASS IS FOUR INCHES (4") TO SIX INCHES (6") HIGH. APPLY ONLY WHEN GRASS IS DRY.
5. UNLESS HYDROSEEDED, WORK IN LIME AND FERTILIZER TO A DEPTH OF FOUR (4") INCHES USING A DISK OR ANY SUITABLE EQUIPMENT.
6. TILLAGE SHOULD ACHIEVE A REASONABLY UNIFORM LOOSE SEEDBED. WORK ON CONTOUR IF SITE IS SLOPING.

ESTABLISHMENT:

1. SELECT APPROPRIATE SPECIES FOR THE SITUATION. NOTE RATES AND SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW). 2. APPLY SEED UNIFORMLY ACCORDING TO THE RATE INDICATED BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION. 3. UNLESS HYDROSEEDED, COVER RYEGRASS SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL USING SUITABLE EQUIPMENT. 4. MULCH IMMEDIATELY AFTER SEEDING IF REQUIRED. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW.) APPLY STRAW OR HAY MULCH AND ANCHOR TO SLOPES GREATER THAN 3% OR WHERE CONCENTRATED FLOW WILL OCCUR.

PERMANENT VEGETATIVE COVER

GENERAL:

1. PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED AS VARIOUS SECTIONS OF THE PROJECT ARE COMPLETED IN ORDER TO STABILIZE THE SOIL, REDUCE DOWNSTREAM DAMAGE FROM SEDIMENT AND RUNOFF, AND TO ENHANCE THE AESTHETIC NATURE OF THE SITE. IT WILL BE APPLIED TO ALL CONSTRUCTION AREAS SUBJECT TO EROSION WHERE FINAL GRADING HAS BEEN COMPLETED AND A PERMANENT COVER IS NEEDED.

SITE PREPARATION:

2. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
3. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
4. PERFORM ALL PLANTING OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE.
5. APPLY TOPSOIL AS INDICATED ELSEWHERE HEREIN.
6. APPLY FERTILIZER ACCORDING TO SOIL TEST OR:

SPREAD SEEDING: WORK DEEPLY IN SOIL, BEFORE SEEDING, 300 LBS. OF 10-10-10 FERTILIZER PER ACRE (7 LBS. PER 1,000 SQ. FT.); THEN SIX (6) TO EIGHT (8) WEEKS LATER, APPLY ON THE SURFACE AN ADDITIONAL 300 LBS. OF 10-10-10 FERTILIZER PER ACRE. AFTER SEPTEMBER 1, TEMPORARY VEGETATIVE COVER SHALL BE APPLIED.

FALL SEEDING: WORK DEEPLY IN SOIL, BEFORE SEEDING, 600 LBS. OF 10-10-10 FERTILIZER PER ACRE (14 LBS. PER 1,000 SQ. FT.).

VEGETATIVE COVER SELECTION & MULCHING

TEMPORARY VEGETATIVE COVER:

PERENNIAL RYEGRASS 3 LBS./1,000 SQ.FT.
(IOLUIUM PERENNE)

PERMANENT VEGETATIVE COVER:

AS SPECIFIED

TEMPORARY MULCHING:

STRAY OR HAY 70-90 LBS./1,000 SQ.FT.
(TEMPORARY VEGETATIVE AREAS)

WOOD FIBER IN HYDROMULCH SLURRY 25-50 LBS./1,000 SQ. FT.

ESTABLISHMENT:

1. SMOOTH AND FIRM SEEDBED WITH CULTIPACKER OR OTHER SIMILAR EQUIPMENT PRIOR TO SEEDING (EXCEPT WHEN HYDROSEEDING).
2. SELECT ADAPTED SEED MIXTURE FOR THE SPECIFIC SITUATION. NOTE RATES AND THE SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING SPEC. BELOW).
3. APPLY SEED UNIFORMLY ACCORDING TO RATE INDICATED, BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
4. COVER GRASS AND LEGUME SEED WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT WHEN HYDROSEEDING).
5. MULCH IMMEDIATELY AFTER SEEDING, IF REQUIRED, ACCORDING TO TEMPORARY MULCHING SPECIFICATIONS. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW).
6. USE PROPER INOCULANT ON ALL LEGUME SEEDINGS, USE FOUR (4) TIMES NORMAL RATES WHEN HYDROSEEDING.
7. USE SOD WHERE THERE IS A HEAVY CONCENTRATION OF WATER AND IN CRITICAL AREAS WHERE IT IS IMPORTANT TO GET A QUICK VEGETATIVE COVER TO PREVENT EROSION.

MAINTENANCE:

1. TEST FOR SOIL ACIDITY EVERY THREE (3) YEARS AND LIME AS REQUIRED.
2. ON SITES WHERE GRASSES PREDOMINATE, BROADCAST ANNUALLY 500 POUNDS OF 10-10-10 FERTILIZER PER ACRE (12 LBS. PER 1,000 SQ. FT.) OR AS NEEDED ACCORDING TO ANNUAL SOIL TESTS.
3. ON SITES WHERE LEGUMES PREDOMINATE, BROADCAST EVERY THREE (3) YEARS OR AS INDICATED BY SOIL TEST 300 POUNDS OF 0-20-20 OR EQUIVALENT PER ACRE (8 LBS PER 1,000 SQ. FT.).

EROSION CHECKS

GENERAL:

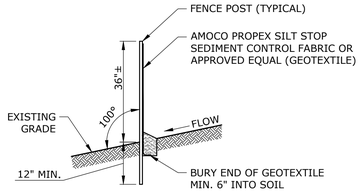
1. TEMPORARY PERVIOUS BARRIERS USING BALES OF HAY OR STRAW, HELD IN PLACE WITH STAKES DRIVEN THROUGH THE BALES AND INTO THE GROUND OR GEOTEXTILE FABRIC FASTENED TO A FENCE POST AND BURIED INTO THE GROUND, SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO CHECK EROSION AND REDUCE SEDIMENTATION.

CONSTRUCTION:

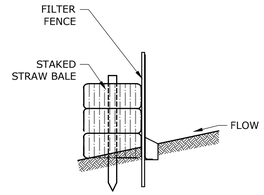
1. BALES SHOULD BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF FOUR (4") INCHES.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES OR REINFORCEMENT BARS DRIVEN THROUGH THE BALES AND INTO THE GROUND. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD THE PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
4. GEOTEXTILE FABRIC SHALL BE SECURELY ANCHORED AT THE TOP OF A THREE FOOT (3') HIGH FENCE AND BURIED A MINIMUM OF FOUR INCHES (4") TO THE SOIL. SEAMS BETWEEN SECTIONS OF FILTER FABRIC SHALL OVERLAP A MINIMUM OF TWO FEET (2').

INSTALLATION AND MAINTENANCE:

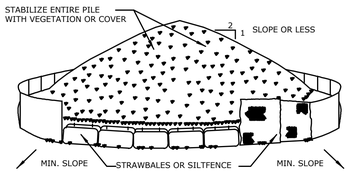
1. BALED HAY EROSION BARRIERS SHALL BE INSTALLED AT ALL STORM SEWER INLETS.
2. BALED HAY EROSION BARRIERS AND GEOTEXTILE FENCE SHALL BE INSTALLED AT THE LOCATION INDICATED ON THE PLAN AND IN ADDITIONAL AREAS AS MAY BE DEEMED APPROPRIATE DURING CONSTRUCTION.
3. ALL EROSION CHECKS SHALL BE MAINTAINED UNTIL ADJACENT AREAS ARE STABILIZED.
4. INSPECTION SHALL BE FREQUENT (AT MINIMUM MONTHLY AND BEFORE AND AFTER HEAVY RAIN) AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. EROSION CHECKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.



SEDIMENT FILTER FENCE
NOT TO SCALE



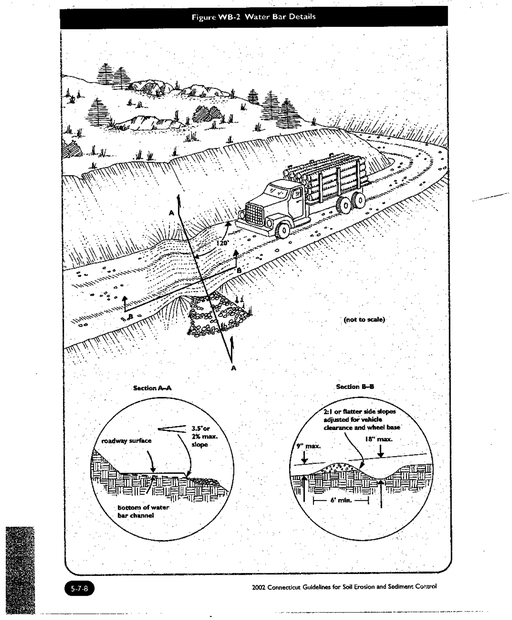
SEDIMENT FILTER FENCE AND HAY BALE
NOT TO SCALE



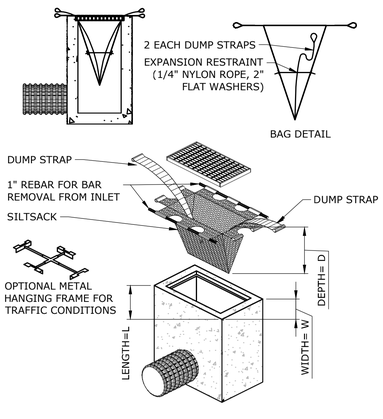
INSTALLATION NOTES

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.

STOCKPILE PROTECTION (STK)
NOT TO SCALE



WATER BAR (WB)
NOT TO SCALE



INLET SEDIMENT CONTROL DEVICE
NOT TO SCALE

EROSION CONTROL MAINTENANCE INTERVALS

EROSION CONTROL MEASURE	CONTROL OBJECTIVE	INSPECTION/MAINTENANCE	FAILURE INDICATORS	REMOVAL
SILT FENCE (SF) (RELATED: IP, STK)	- INTERCEPT, AND REDIRECT/DETAIN SMALL AMOUNTS OF SEDIMENT FROM SMALL DISTURBED AREAS. - DECREASE VELOCITY OF SHEET FLOW. - PROTECT SENSITIVE SLOPES OR SOILS FROM EXCESSIVE WATER FLOW.	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. ACCUMULATED SEDIMENT MUST BE REMOVED ONCE ITS DEPTH IS EQUAL TO ½ THE TRENCH HEIGHT. INSPECT FREQUENTLY DURING PUMPING OPERATIONS IF USED FOR DEWATERING OPERATIONS.	- PHYSICAL DAMAGE OR DECOMPOSITION - EVIDENCE OF OVERTOPPED OR UNDERCUT FENCE - EVIDENCE OF SIGNIFICANT FLOWS EVADING CAPTURE - REPETITIVE FAILURE	SILT FENCE MAY BE REMOVED AFTER UPHILL AND SENSITIVE AREAS HAVE BEEN PERMANENTLY STABILIZED.
HAY BALES (HB)	- INTERCEPT, AND REDIRECT/DETAIN SMALL AMOUNTS OF SEDIMENT FROM SMALL DISTURBED AREAS. - DECREASE VELOCITY OF SHEET FLOW. - PROTECT SENSITIVE SLOPES OR SOILS FROM EXCESSIVE WATER FLOW.	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. ACCUMULATED SEDIMENT MUST BE REMOVED ONCE THE DEPTH OF SEDIMENT IS EQUAL TO ½ THE HEIGHT OF THE BARRIER. INSPECT FREQUENTLY DURING PUMPING OPERATIONS IF USED FOR DEWATERING OPERATIONS.	- PHYSICAL DAMAGE OR DECOMPOSITION - EVIDENCE OF OVERTOPPED OR UNDERCUT FENCE - EVIDENCE OF SIGNIFICANT FLOWS EVADING CAPTURE - REPETITIVE FAILURE	HAY BALES MAY BE REMOVED AFTER UPHILL AREAS HAVE BEEN PERMANENTLY STABILIZED.
CATCH BASIN INLET PROTECTION (IP)	- PROHIBIT SILT IN CONSTRUCTION-RELATED RUNOFF FROM ENTERING STORM DRAINAGE SYSTEM.	INSPECT AFTER ANY RAIN EVENT. IF FILTER BAG INSIDE CATCH BASIN CONTAINS MORE THAN 6" OF SEDIMENT, REMOVE SEDIMENT FROM BAG. CHECK SURROUNDING SILT FENCE AND HAY BALES PER NOTED ABOVE.	- RIPPED BAG - FAILED HAY BALES / SILT FENCE - SIGNIFICANT SILT PRESENCE IN STORM DRAINAGE SYSTEM OUTFLOW.	INLET PROTECTION MAY BE REMOVED ONCE THE SITE HAS BEEN PERMANENTLY STABILIZED, AND ALL SECTIONS OF ROADWAY HAVE BEEN PERMANENTLY PAVED.
STOCKPILE PROTECTION (STK)	- RETAIN SOIL STOCKPILE IN LOCATIONS SPECIFIED, AND REDUCE WATER-TRANSPORT.	INSPECT SILT FENCE AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. PERIODIC REINFORCEMENT OF SILT FENCE, OR ADDITION OF HAY BALES MAY BE NECESSARY.	- EVIDENCE OF STOCK PILE DIMINISHING DUE TO RAIN EVENTS - FAILURE OF SILT FENCE	STOCKPILE PROTECTION MAY BE REMOVED ONCE THE STOCKPILE IS USED OR REMOVED.

SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203-271-1773
SLRCONSULTING.COM

DESCRIPTION | DATE | BY

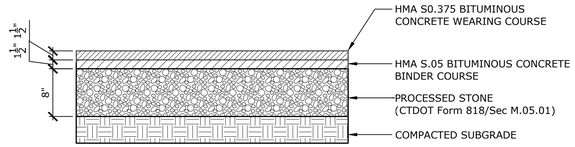
SEDIMENT & EROSION CONTROL NOTES & DETAILS

CAMP YANKEE TRAILS SITE IMPROVEMENTS
343 PLAINS ROAD
TOLLAND, CONNECTICUT

SMM	SMM	MTD
DESIGNED	DRAWN	CHECKED

SCALE: AS NOTED
DATE: OCTOBER 14, 2023
PROJECT NO.: 141.13280.00006
SHEET NO.: 20 OF 26

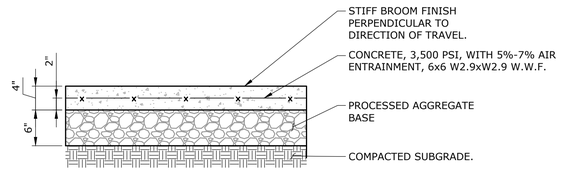
SHEET NAME: **SE-3**



BITUMINOUS CONCRETE ACCESS DRIVES AND PARKING

NOT TO SCALE

NOTE:
1. CROSS SECTION TO BE VERIFIED BY GEOTECHNICAL ENGINEER.

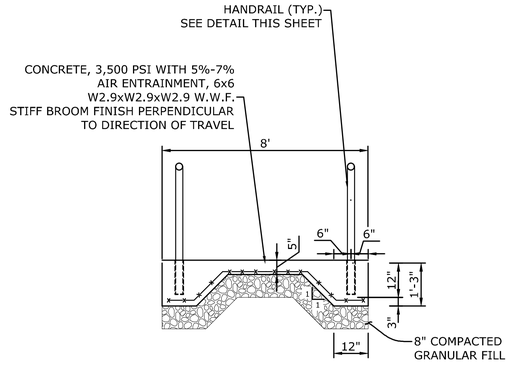


NOTES:

1. EXPANSION JOINTS 20' O.C. MAXIMUM SCORE JOINTS 5' O.C. TYPICAL.

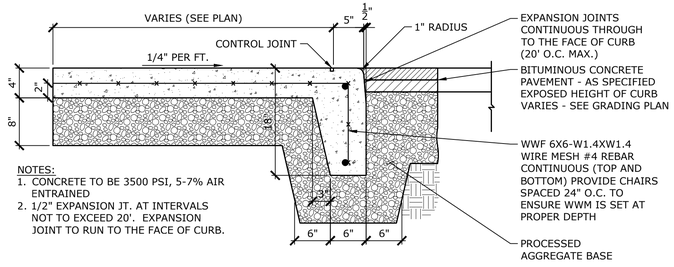
CONCRETE SIDEWALK

NOT TO SCALE



ACCESSIBLE CONCRETE RAMP

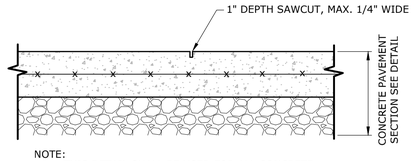
N.T.S.



NOTES:
1. CONCRETE TO BE 3500 PSI, 5-7% AIR ENTRAINED
2. 1/2" EXPANSION JT. AT INTERVALS NOT TO EXCEED 20'. EXPANSION JOINT TO RUN TO THE FACE OF CURB.

INTEGRAL CONCRETE SIDEWALK & CURB

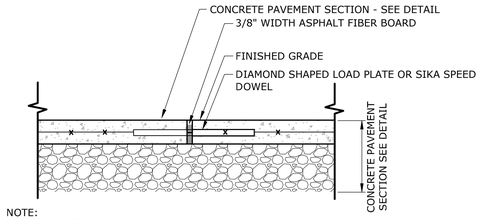
NOT TO SCALE



NOTE:
1. THIS DETAIL SHALL BE USED FOR ALL CONCRETE PAVEMENTS INCLUDING SIDEWALKS, PLAZAS, AND PADS UNLESS OTHERWISE SPECIFIED.

SCORE JOINT - SAWCUT

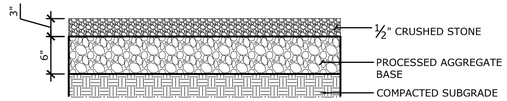
NOT TO SCALE



NOTE:
1. THIS DETAIL SHALL BE USED FOR ALL DECORATIVE CONCRETE PAVEMENTS INCLUDING SIDEWALKS, PLAZAS, AND PADS UNLESS OTHERWISE SPECIFIED.
2. PLACE EXPANSION JOINTS AT ALL INTERRUPTING OBJECTS, COLUMNS, AND ABUTTING STRUCTURES.

CONCRETE EXPANSION JOINT

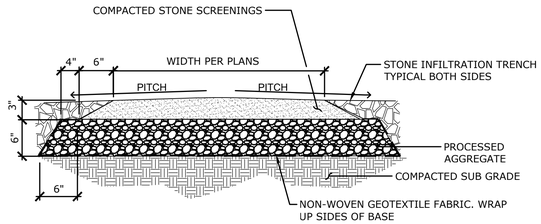
NOT TO SCALE



NOTE:
FINAL DEPTH OF CRUSHED STONE SURFACE SHALL BE 3 INCHES AFTER COMPACTION.

GRAVEL STONE SURFACE

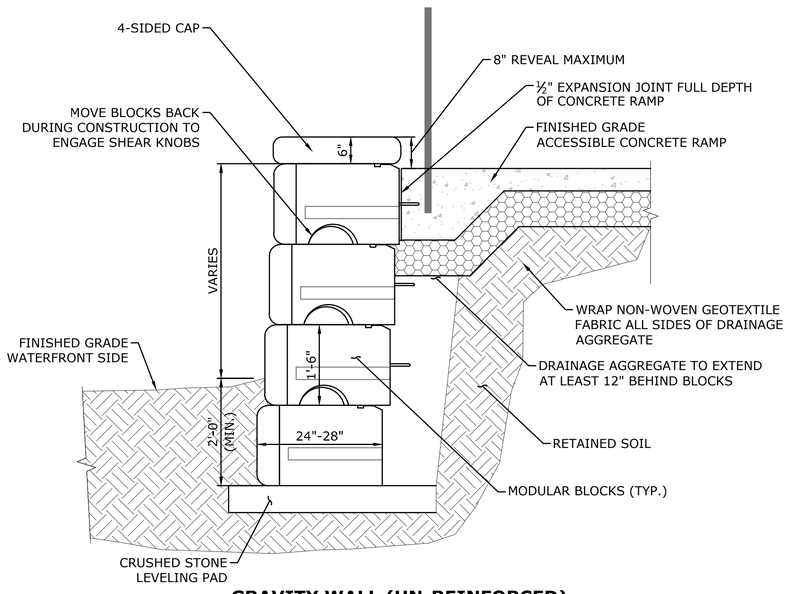
N.T.S.



NOTES:
1. PROVIDE STONE SCREENINGS SAMPLE FOR APPROVAL BY LANDSCAPE ARCHITECT.
2. TRAIL SHALL BE CROWNED TO SHED WATER.

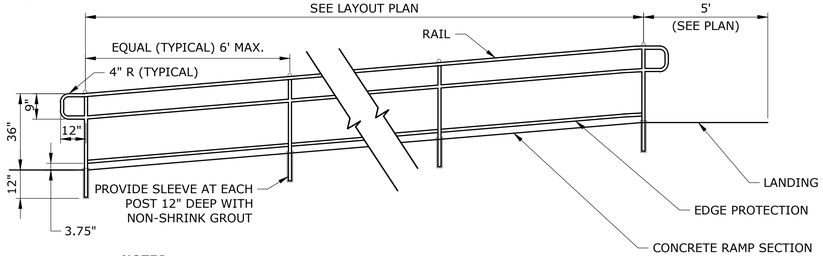
STONEDUST PATH

NOT TO SCALE



GRAVITY WALL (UN-REINFORCED)

SCALE: ¾"=1'-0"

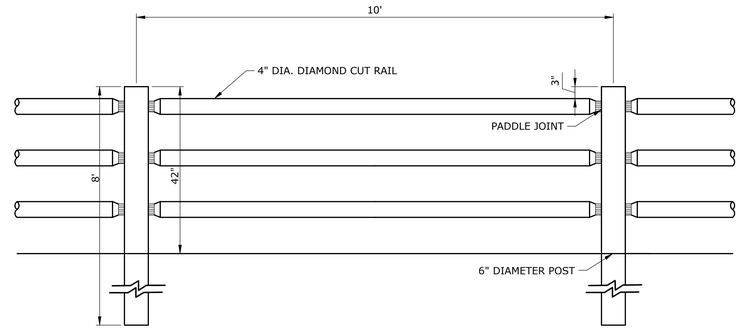


NOTES:

1. HANDRAILS SPECIFIED ON THIS DETAIL ARE INTENDED FOR USE AT THE CONCRETE RAMP SHOWN ON THE SITE PLAN. 1 1/2" I.D. STEEL PIPE HANDRAIL (BOTH SIDES). INTERMEDIATE POSTS SPACED EQUALLY - MAX. 6' O.C.
2. ALL WELDS TO BE GROUND SMOOTH
3. ALL STEEL TO HAVE PVC POWDER COAT COLOR: BLACK
4. HAND RAIL TYPICAL BOTH SIDES OF RAMP
5. SUBMIT SHOP DRAWING FOR APPROVAL

STEEL HAND RAIL AT RAMPS

NOT TO SCALE

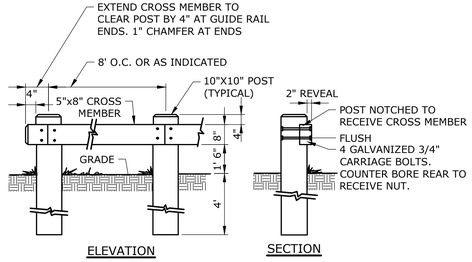


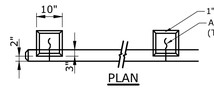
NOTES:

1. THREE RAIL FENCE USED ON EDGE OF STEEPER SLOPES AND TO RESTRICT LIGHT TRAFFIC.
2. ALL WOOD IS TO BE PRESSURE TREATED SOUTHERN YELLOW PINE OR APPROVED EQUAL.
3. SUBMIT PRODUCT FOR APPROVAL.

THREE RAIL FENCE

NOT TO SCALE



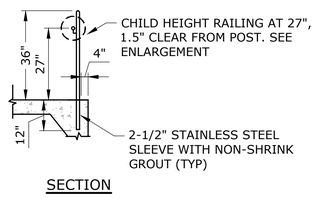


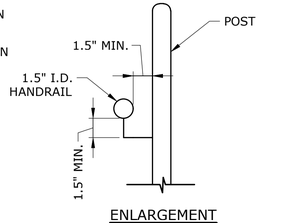
NOTES:

1. ALL WOOD TO BE PRESSURE TREATED SOUTHERN YELLOW PINE.
2. ALL RAIL AND POST LUMBER SHALL BE COMMERCIAL GRADE, NO.1 DENSE, (Fb=10.3 FPo) OR BETTER, CONFORMING TO NOMINAL SIZES AND DIMENSIONS SHOWN AND TO AASHTO SPECIFICATION M168. ALL TIMBER SHALL BE TREATED WITH A PRESSURE IMPREGNATED PRESERVATIVE IN ACCORDANCE WITH AASHTO SPECIFICATION M133.
3. BOLTS SHALL BE 3/4" DIAMETER, ASTM 307, WITH APPROPRIATE NUTS AND WASHERS (ALL HOT DIPPED GALVANIZED)
4. BACKFILL AROUND EACH POST WITH SUITABLE NATIVE MATERIAL IN 1' LIFTS.
5. CONTRACTOR TO PROVIDE 90°, 45° OR END POSTS WHERE REQUIRED.
6. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ENTIRE SYSTEM.

TIMBER GUIDE RAIL

NOT TO SCALE





SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

SITE DETAILS
CAMP YANKEE TRAILS
SITE IMPROVEMENTS
343 PLAINS ROAD
TOLLAND, CONNECTICUT

PJP	PJP	MTD
DESIGNED	DRAWN	CHECKED

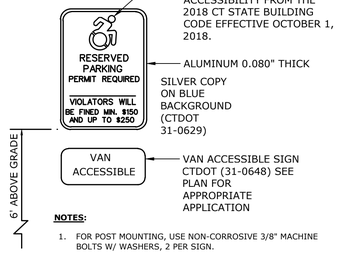
AS NOTED
SCALE

OCTOBER 14, 2023
DATE

141.13280.00006
PROJECT NO.

21 OF 26
SHEET NO.

SD-1
SHEET NAME

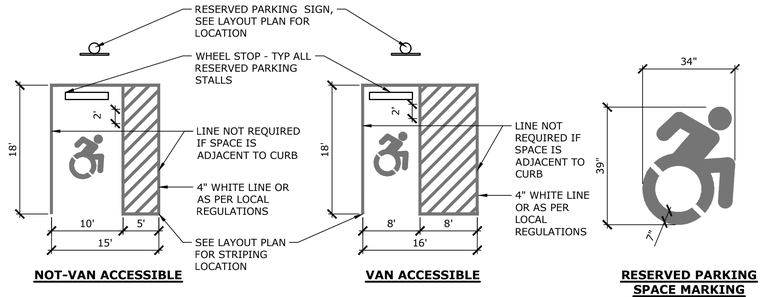


NOTES:

1. FOR POST MOUNTING, USE NON-CORROSIVE 3/8" MACHINE BOLTS W/ WASHERS, 2 PER SIGN.

RESERVED PARKING SIGN

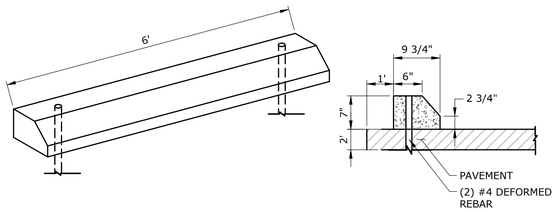
NOT TO SCALE



NOT-VAN ACCESSIBLE **VAN ACCESSIBLE** **RESERVED PARKING SPACE MARKING**

ACCESSIBLE PARKING STALL DETAIL

NOT TO SCALE

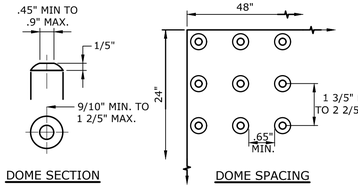


NOTES:

1. CONCRETE: 4000 PSI, 28 DAYS
2. WEIGHT, 300 LBS.
3. REINFORCEMENT, (2) #4 BARS
4. (2) 3/4" HOLES CAST IN FOR ANCHORING
5. (2) PROVIDE 5/8" x 30" REBAR FOR ANCHORING

PRECAST CONCRETE WHEEL STOP

NOT TO SCALE



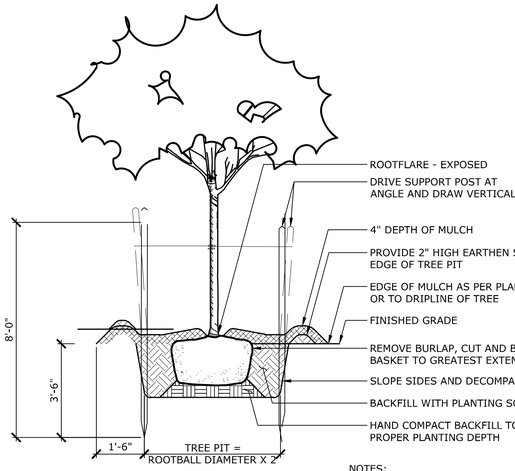
DOME SECTION DOME SPACING

NOTES:

1. CARE SHALL BE TAKEN TO ASSURE UNIFORM GRADE ON THE RAMP, FREE OF SAGS AND ABRUPT GRADE CHANGES.
2. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP. THE SURFACE ALONG ACCESSIBLE ROUTES SHALL BE STABLE, FIRM AND SLIP RESISTANT IN COMPLIANCE WITH ADAAG SECTION 4.5.
3. HANDICAP RAMPS CONFORMING WITH CONNECTICUT GENERAL STATUTES, SEC. 7-118a, SHALL BE INCORPORATED IN ALL PROPOSED SIDEWALKS AT ALL STREET INTERSECTIONS, AND AT ALL OTHER LOCATIONS WHERE THE GRADE OF A DRIVEWAY OR OTHER FACILITY TAKES PRECEDENCE OVER THE GRADE OF THE PROPOSED SIDEWALK.
4. INSTALL THE EDGE OF THE DETECTABLE WARNING 6" MINIMUM FROM THE EDGE OF ROAD.
5. TO PERMIT WHEELCHAIR WHEELS TO ROLL BETWEEN DOMES, ALIGN DOMES ON A SQUARE GRID. IN THE DIRECTION OF PEDESTRIAN TRAVEL.

DETECTABLE WARNING STRIP

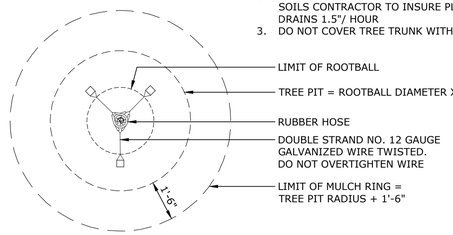
NOT TO SCALE



SECTION

NOTES:

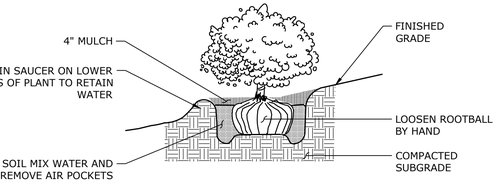
1. SUPPORT POSTS SHALL BE REMOVED BY THE CONTRACTOR ONE YEAR AFTER INSTALLATION
2. WHERE TREES ARE PLANTED IN COMPACTED SOILS CONTRACTOR TO INSURE PLANT PIT DRAINS 1.5"/ HOUR
3. DO NOT COVER TREE TRUNK WITH MULCH



PLAN

TREE PLANTING

NOT TO SCALE



NOTES:

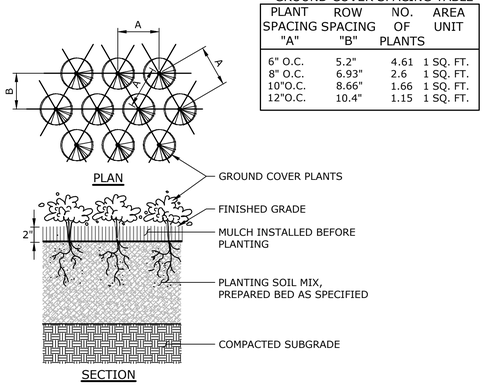
1. UNLESS OTHERWISE DIRECTED SHREDDED MULCH SHALL BE PLACED TO A LIMIT OF ONE FOOT BEYOND THE CENTER OF THE OUTERMOST SHRUBS IN SHRUB BED.

SHRUB PLANTING

NOT TO SCALE

GROUND COVER SPACING TABLE

PLANT SPACING "A"	ROW SPACING "B"	NO. OF PLANTS	AREA UNIT
6" O.C.	5.2"	4.61	1 SQ. FT.
8" O.C.	6.93"	2.6	1 SQ. FT.
10"O.C.	8.66"	1.66	1 SQ. FT.
12"O.C.	10.4"	1.15	1 SQ. FT.



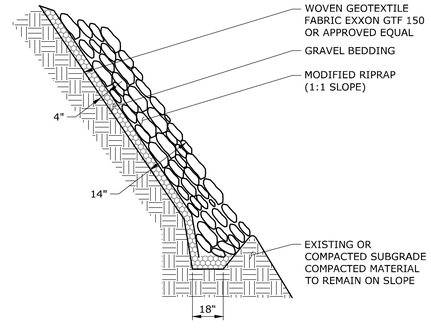
PLAN SECTION

NOTES:

1. ALL GROUND COVER TO BE PLANTED IN TRIANGULAR PATTERN. SEE DETAIL PLAN AND GROUND COVER SPACING TABLE.

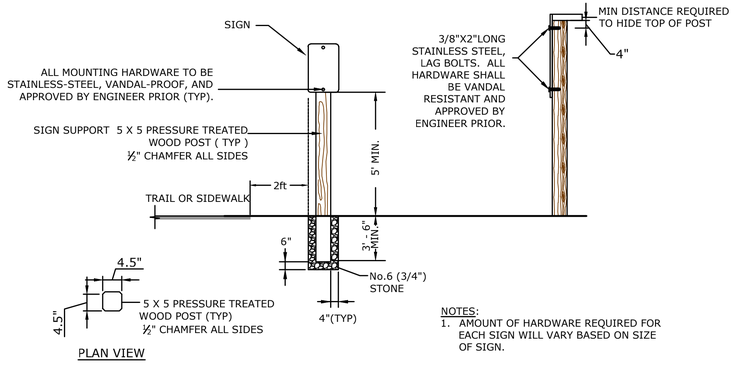
GROUND COVER/ PERENNIAL PLANTING

NOT TO SCALE



MODIFIED RIPRAP SLOPE

NOT TO SCALE

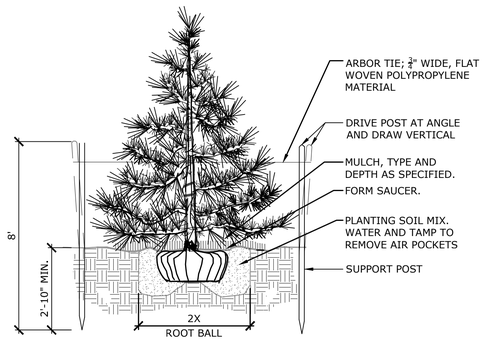


PLAN VIEW

NOTES:
1. AMOUNT OF HARDWARE REQUIRED FOR EACH SIGN WILL VARY BASED ON SIZE OF SIGN.

WOOD POST MOUNTING - SIGN FACE

N.T.S.

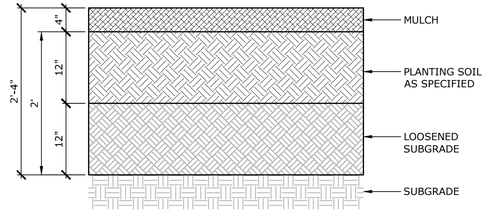


NOTES:

1. PROVIDE STAKING AS REQUIRED.
2. PLANT SO THAT TOP OF ROOT BALL IS EVEN WITH THE FINISHED GRADE.
3. PAINT ALL CUTS.
4. REMOVE ALL CONTAINERS AND BASKETS FROM ROOT BALL.
5. REMOVE BURLAP, CUT AND BEND BACK WIRE BASKET TO GREATEST EXTENT POSSIBLE.

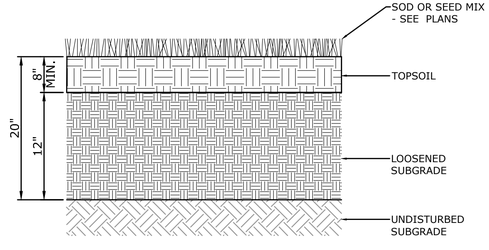
EVERGREEN TREE PLANTING DETAIL

NOT TO SCALE



LANDSCAPE BEDS

NOT TO SCALE



LAWN DETAIL

NOT TO SCALE

SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203-271-1773
SLRCONSULTING.COM

DESCRIPTION | DATE | BY

SITE DETAILS
CAMP YANKEE TRAILS
SITE IMPROVEMENTS
343 PLAINS ROAD
TOLLAND, CONNECTICUT

PJP	PJP	MTD
DESIGNED	DRAWN	CHECKED

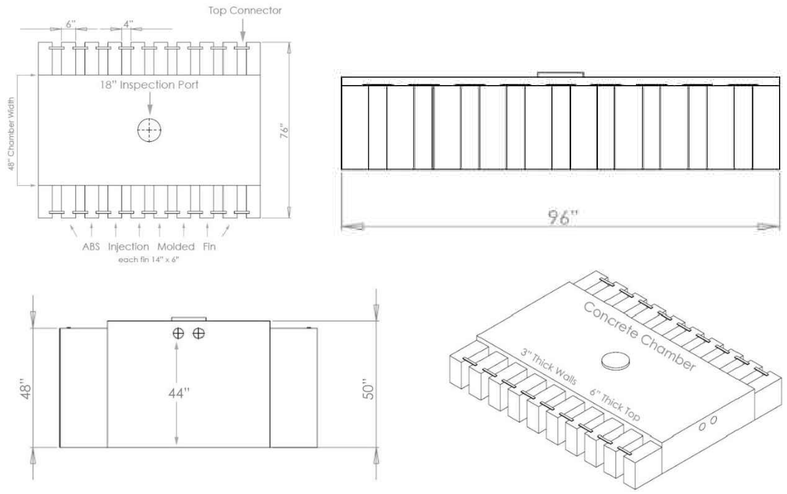
AS NOTED (SCALE)

OCTOBER 14, 2023 (DATE)

141.13280.00006 (PROJECT NO.)

22 OF 26 (SHEET NO.)

SD-2 (SHEET NAME)



CURTECH CTL 48 LEACHING GALLERIES

NOT TO SCALE

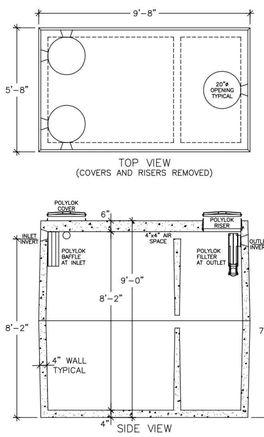
NOTE:
SUBMIT SAMPLE AND SUPPLIER OF
RIVER COBBLES FOR APPROVAL.

STONE INFILTRATION STRIP AT BITUMINOUS CONCRETE

1" = 1'-0"

NOT TO SCALE

P-TR-2625.32-76



2500 GALLON REGULAR SEPTIC TANK

TANK DESIGN SPECIFICATION
CONFORMS TO LATEST:
ASTM DESIGNATION C1227

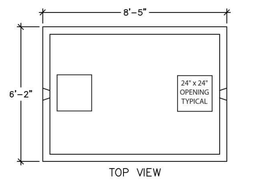
NOTES:

1. JOINT SEALANT IS BUTYL RUBBER MASTIC TYPE SEAL THAT CONFORMS TO LATEST AASHTO SPECIFICATION M-198. MEETS FEDERAL SPECIFICATION SS-S-0021(210-A).
2. PIPE INLET AND OUTLET LOCATIONS HAVE POLYLOK II PIPE SEALS.
3. REINFORCING STEEL DEFORMED BARS CONFORM TO LATEST ASTM SPECIFICATION A615.
3. REINFORCING STEEL WELDED WIRE FABRIC CONFORM TO LATEST ASTM SPECIFICATION A185.
5. CONCRETE COMPRESSIVE STRENGTH-- 4000 PSI AT 28 DAYS.
6. METHOD OF MANUFACTURE: WET CAST.
7. SECTIONS ARE MONOLITHIC.

WEIGHT CHART

PRODUCT	APPROX. WEIGHT
Tank	18000 LBS.

UNITED CONCRETE PRODUCTS INC.
173 CHURCH STREET YALESVILLE, CT 06492
TEL. 800 234-3119 (203) 269-3119
FAX. (203) 265-4941



1000 GALLON HS-20 GREASE TRAP

TANK DESIGN SPECIFICATIONS
CONFORMS TO LATEST:
ASTM DESIGNATION C913

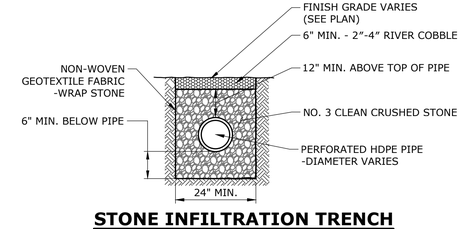
NOTES:

1. JOINT SEALANT IS BUTYL RUBBER MASTIC TYPE SEAL THAT CONFORMS TO LATEST AASHTO SPECIFICATION M-198. MEETS FEDERAL SPECIFICATION SS-S-0021(210-A).
2. PIPE INLET AND OUTLET LOCATIONS HAVE POLYLOK II PIPE SEALS, TYPICAL. CUSTOM KNOCKOUTS CAN BE CAST ON REQUEST.
3. WHEN SPECIFIED THE TANK EXTERIOR IS COATED WITH BAY OIL, "EBONY" OR EQUAL.
4. REINFORCING STEEL DEFORMED BARS CONFORM TO LATEST ASTM SPECIFICATION A615.
5. CONCRETE COMPRESSIVE STRENGTH-- 4000 PSI AT 28 DAYS.
6. METHOD OF MANUFACTURE: WET CAST.
7. BASE SECTION IS MONOLITHIC.
8. THE CHAMBER IS DESIGNED FOR HS-20 LOADING w/18" OF SOIL COVER.

WEIGHT CHART

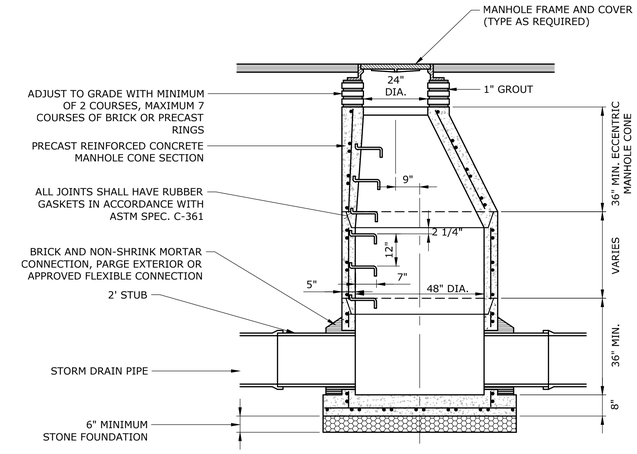
PRODUCT	APPROX. WEIGHT
TANK	14300 LBS.

UNITED CONCRETE PRODUCTS INC.
173 CHURCH STREET YALESVILLE, CT 06492
TEL. 800 234-3119 (203) 269-3119
FAX. (203) 265-4941



STONE INFILTRATION TRENCH TYPICAL SECTION

NOT TO SCALE

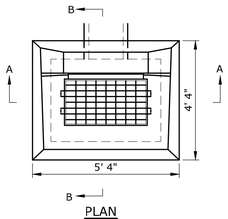


NOTES:

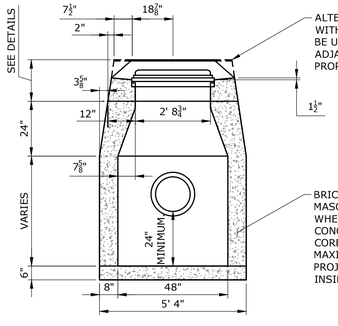
1. 5' OR 6' DIAMETER PRECAST BASES MAY BE REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5' OR 6' BASES AS DIRECTED BY THE ENGINEER. WALL THICKNESS TO INCREASE BY 1" FOR EACH 1'-0" OF INSIDE DIAMETER.

PRECAST CONCRETE STORM DRAINAGE MANHOLE

NOT TO SCALE



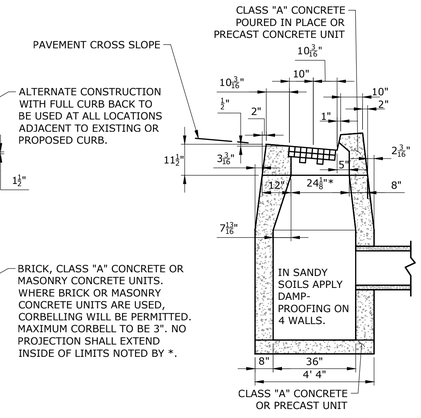
PLAN



SECTION A-A

ALTERNATE CONSTRUCTION WITH FULL CURB BACK TO BE USED AT ALL LOCATIONS ADJACENT TO EXISTING OR PROPOSED CURB.

BRICK, CLASS "A" CONCRETE OR MASONRY CONCRETE UNITS. WHERE BRICK OR MASONRY CONCRETE UNITS ARE USED, CORBELLING WILL BE PERMITTED. MAXIMUM CORBELL TO BE 3". NO PROJECTION SHALL EXTEND INSIDE OF LIMITS NOTED BY *.



SECTION B-B

NOTES:

1. WHEN CATCH BASIN IS SET IN CONCRETE PAVEMENT. THE 1/2" SLOPE ON THE TOP SURFACE SHALL BE CHANGED TO MATCH ADJOINING PAVEMENT.
2. WHERE PRECAST CONCRETE UNIT IS USED FOR SUMP, THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLET FROM THE CATCH BASIN.

TYPE "C" CATCH BASIN

NOT TO SCALE

SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

SITE DETAILS
CAMP YANKEE TRAILS
SITE IMPROVEMENTS
343 PLAINS ROAD
TOLLAND, CONNECTICUT

PJP	PJP	MTD
DESIGNED	DRAWN	CHECKED

AS NOTED
SCALE

OCTOBER 14, 2023
DATE

141.13280.00006
PROJECT NO.

23 OF 26
SHEET NO.

SD-3
SHEET NAME

ADVANCED DRAINAGE SYSTEMS, INC.

SiteASSIST for StormTech: FOR STORMTECH INSTRUCTIONS, DOWNLOAD THE INSTALLATION APP

MC-3500 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-3500.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

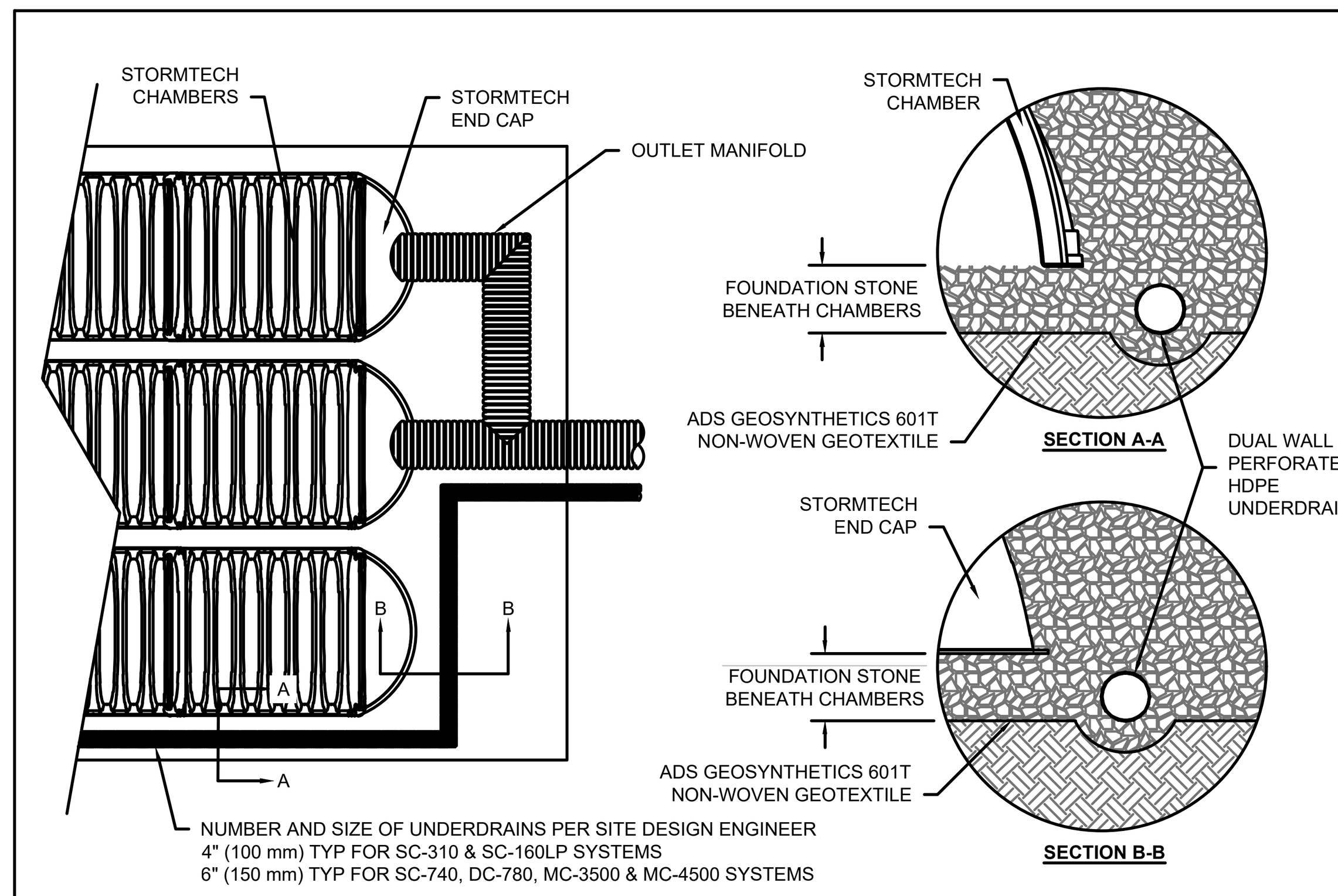
1. STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.
   STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
10. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
11. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

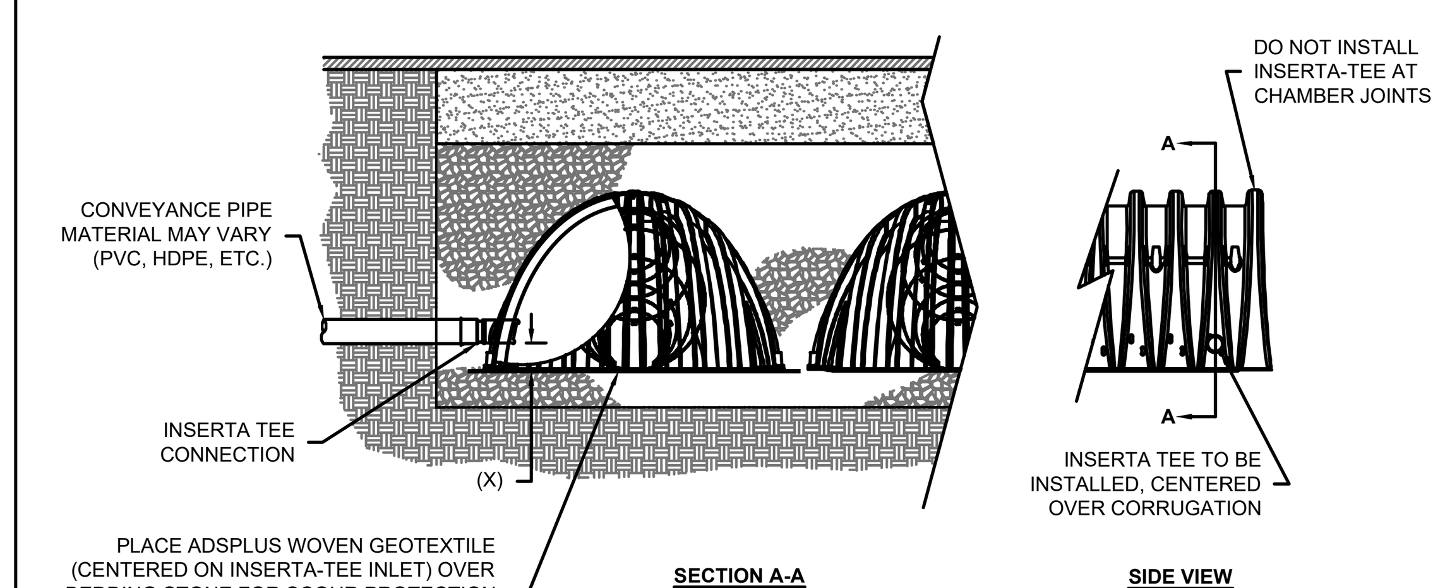
1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
2. THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



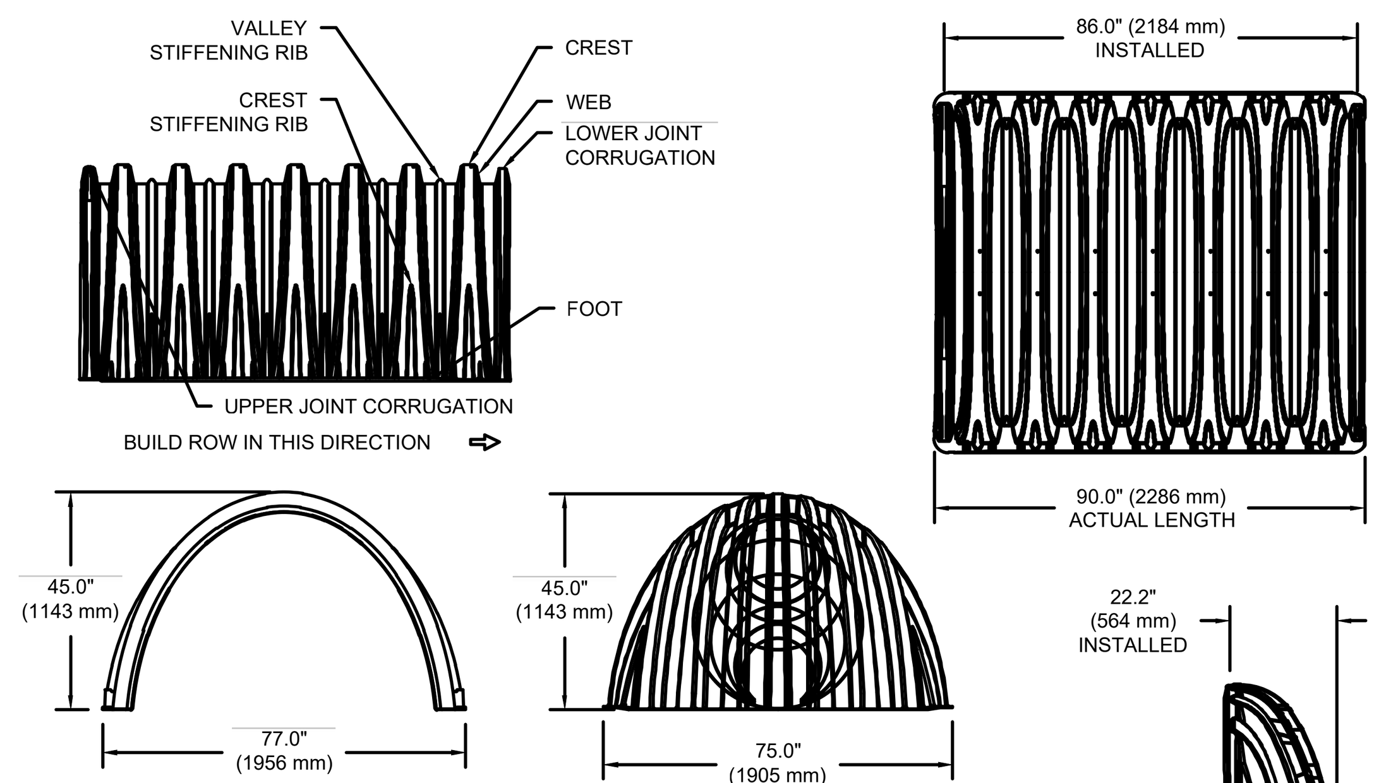
5 UNDERDRAIN DETAIL



CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-740	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	8" (200 mm)
INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON		

NOTE:
PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.

6 INSERTA-TEE SIDE INLET DETAIL



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 86.0"	(1956 mm X 1143 mm X 2184 mm)
CHAMBER STORAGE	109.9 CUBIC FEET	(3.11 m³)
MINIMUM INSTALLED STORAGE*	175.0 CUBIC FEET	(4.96 m³)
WEIGHT	134 lbs.	(60.8 kg)

NOMINAL END CAP SPECIFICATIONS

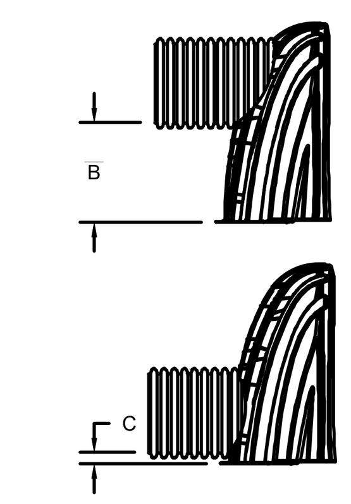
SIZE (W X H X INSTALLED LENGTH)	75.0" X 45.0" X 22.2"	(1905 mm X 1143 mm X 564 mm)
END CAP STORAGE	14.9 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	45.1 CUBIC FEET	(1.28 m³)
WEIGHT	49 lbs.	(22.2 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION, 6" (152 mm) STONE BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"
END CAPS WITH A WELDED CROWN PLATE END WITH "C"

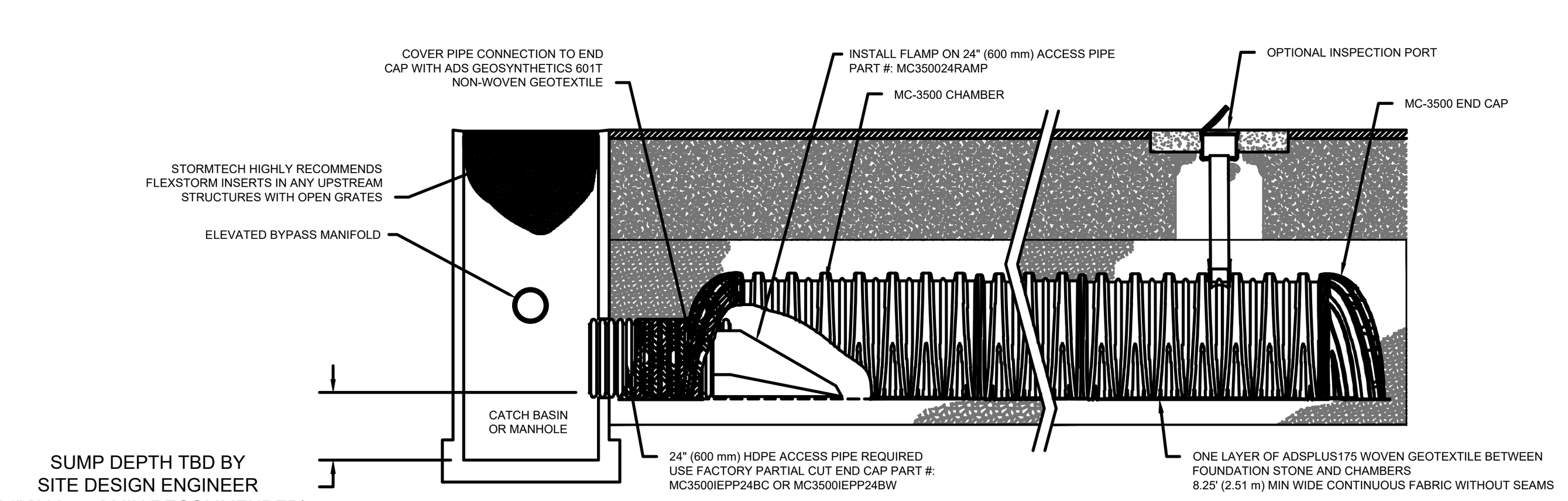
PART #	STUB	B	C
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPP06B		---	0.66" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	---
MC3500IEPP08B		---	0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPP10B		---	0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.36" (670 mm)	---
MC3500IEPP12B		---	1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPP15B		---	1.50" (38 mm)
MC3500IEPP18TC	18" (450 mm)	20.03" (509 mm)	---
MC3500IEPP18TW			
MC3500IEPP18BC		---	1.77" (45 mm)
MC3500IEPP18BW			
MC3500IEPP24TC	24" (600 mm)	14.48" (368 mm)	---
MC3500IEPP24TW			
MC3500IEPP24BC		---	2.06" (52 mm)
MC3500IEPP24BW			
MC3500IEPP30BC	30" (750 mm)	---	2.75" (70 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL



CUSTOM PARTIAL CUT INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

2 MC-3500 TECHNICAL SPECIFICATIONS



INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

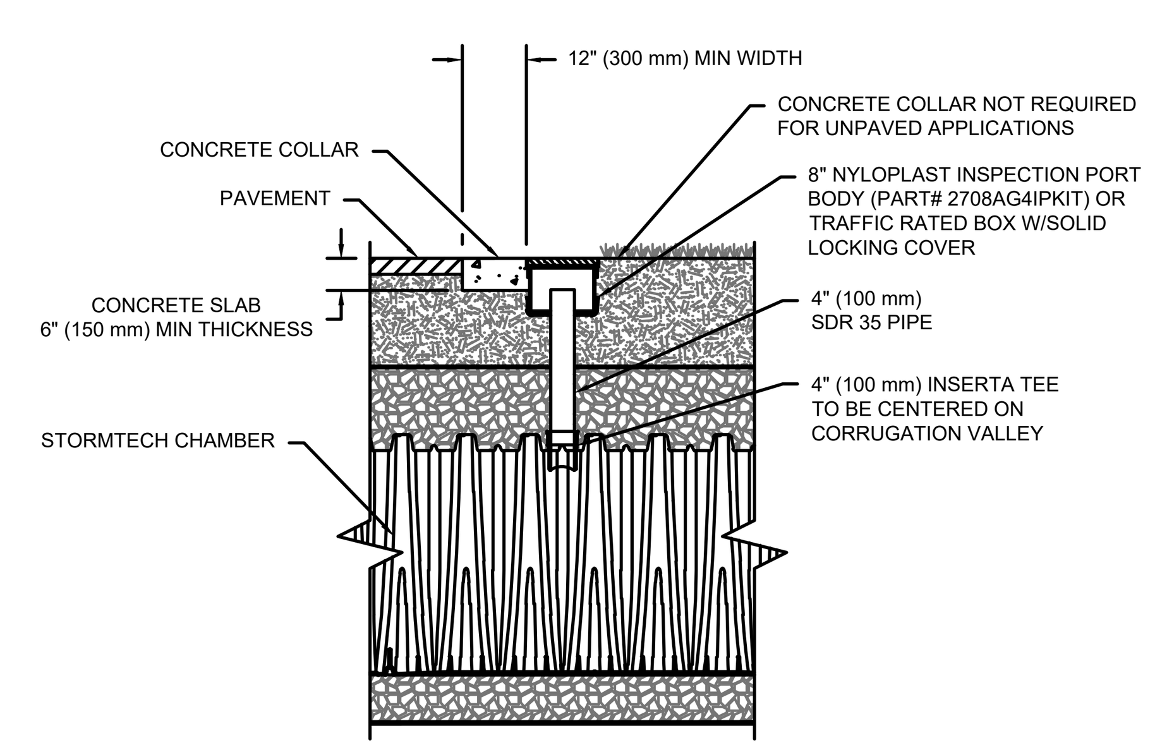
STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

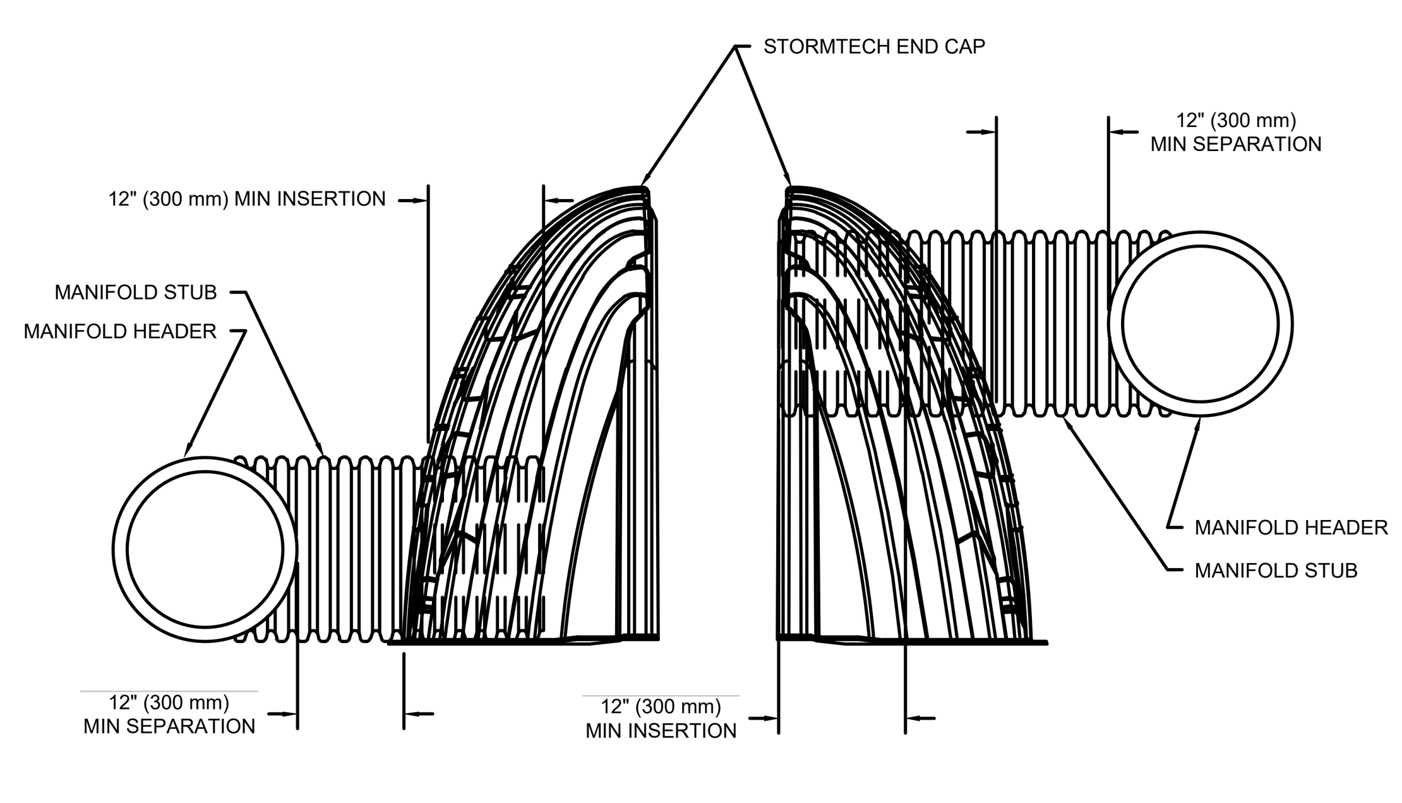
1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

3 MC-3500 ISOLATOR ROW PLUS DETAIL



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.

4 4" PVC INSPECTION PORT DETAIL (MC SERIES CHAMBER)



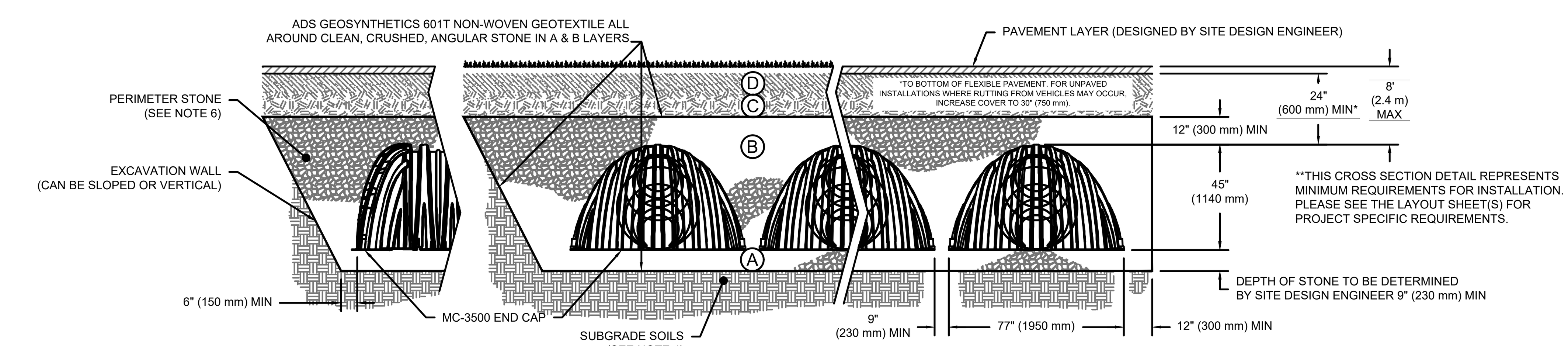
NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

7 MC-SERIES END CAP INSERTION DETAIL

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 4	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

1 MC-3500 CROSS SECTION DETAIL

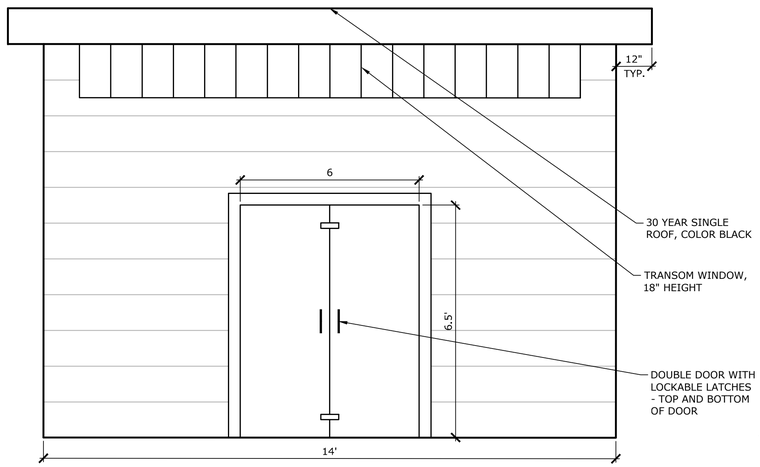
SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

DESCRIPTION | DATE | BY

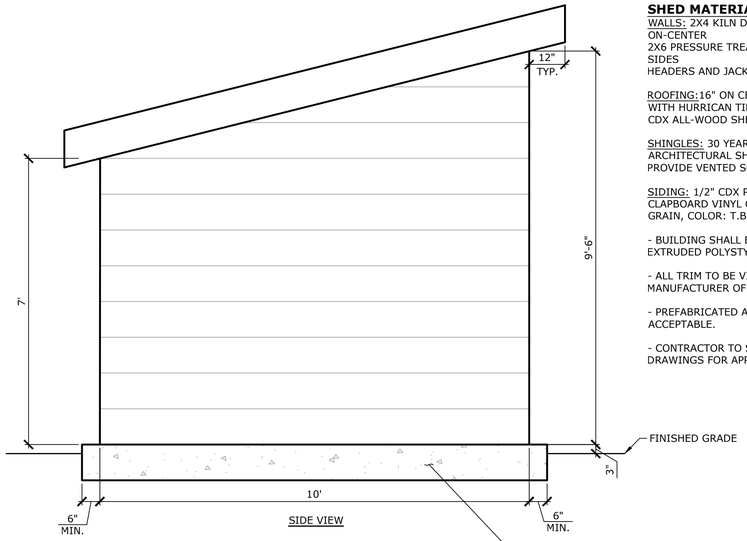
SITE DETAILS
CAMP YANKEE TRAILS
SITE IMPROVEMENTS
343 PLAINS ROAD
TOLLAND, CONNECTICUT

PJP	PJP	MTD
DESIGNED	DRAWN	CHECKED

AS NOTED
SCALE
OCTOBER 14, 2023
DATE
141.13280.00006
PROJECT NO.
24 OF 26
SHEET NO.
SD-4
SHEET NAME



FRONT VIEW



SIDE VIEW

SHED MATERIAL SPECIFICATIONS:

WALLS: 2X4 KILN DRIED FRAMING, 16" ON-CENTER
2X6 PRESSURE TREATED SILL PLATE ALL FOUR SIDES
HEADERS AND JACKS IN ALL DOOR FRAMES

ROOFING:16" ON CENTER 2X8 ROOF RAFTERS WITH HURRICAN TIES, DOUBLE GUSSETED, 1/2" CDX ALL-WOOD SHEATHING

SHINGLES: 30 YEAR GUARANTEE ASPHALT ARCHITECTURAL SHINGLES
PROVIDE VENTED SOFFITS

SIDING: 1/2" CDX PLYWOOD OVERLAID WITH CLAPBOARD VINYL COMPOSITE WITH WOOD GRAIN, COLOR: T.B.D.

- BUILDING SHALL BE INSULATED WITH EXTRUDED POLYSTYRENE FOAM BOARD.

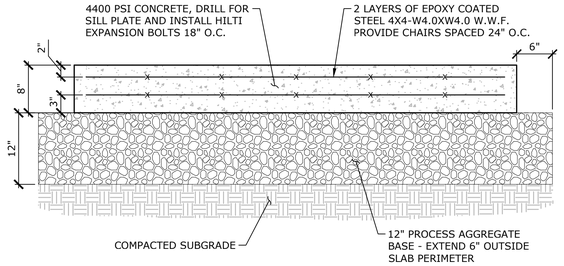
- ALL TRIM TO BE VINYL FROM THE SAME MANUFACTURER OF SIDING.

- PREFABRICATED AND KIT SHED UNITS MAY BE ACCEPTABLE.

- CONTRACTOR TO SUBMIT DETAILED SHOP DRAWINGS FOR APPROVAL.

WATER SUPPLY AND TREATMENT SHED

NOT TO SCALE



SPRAY GROUND MECHANICAL SHED SLAB

NOT TO SCALE

SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203-271-1773
SLRCONSULTING.COM

DESCRIPTION	DATE	BY

SITE DETAILS

CAMP YANKEE TRAILS
SITE IMPROVEMENTS
343 PLAINS ROAD
TOLLAND, CONNECTICUT

PJP	PJP	MTD
DESIGNED	DRAWN	CHECKED

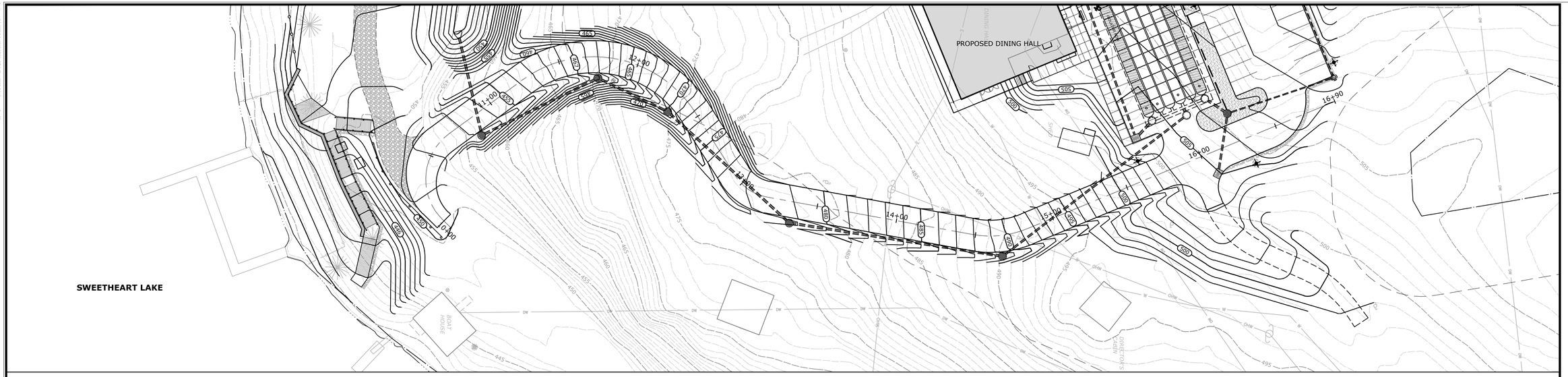
AS NOTED
SCALE

OCTOBER 14, 2023
DATE

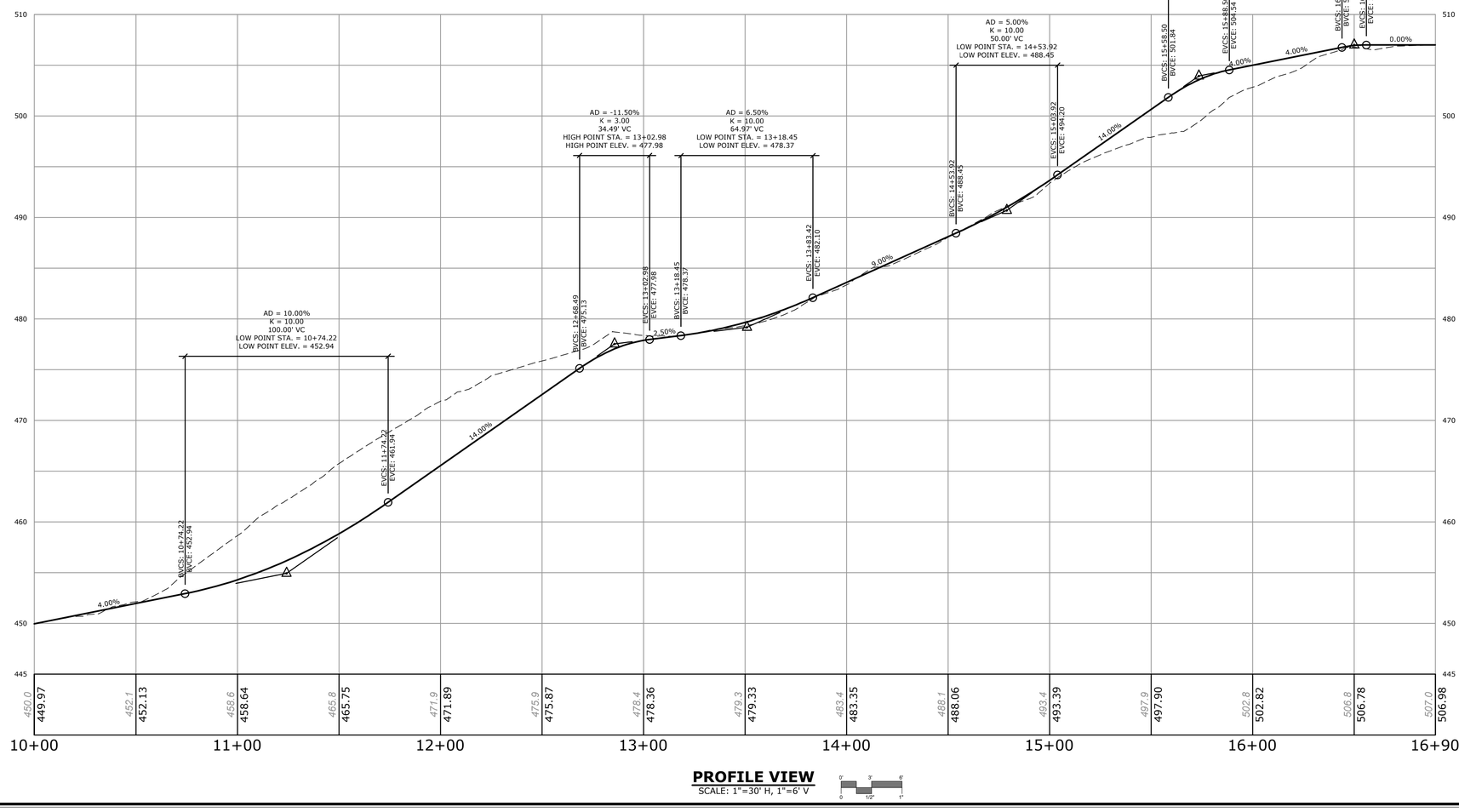
141.13280.00006
PROJECT NO.

25 OF 26
SHEET NO.

SD-5
SHEET NAME



PLAN VIEW
SCALE: 1"=30'



PROFILE VIEW
SCALE: 1"=30' H, 1"=6' V

DESCRIPTION	DATE	BY

SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
SLRCONSULTING.COM

ROAD PROFILE

CAMP YANKEE TRAILS SITE IMPROVEMENTS
343 PLAINS ROAD
TOLLAND, CONNECTICUT

SMM	SMM	MTD
DESIGNED	DRAWN	CHECKED

SCALE: SCALE AS NOTED
DATE: OCTOBER 14, 2023
PROJECT NO.: 141.13280.00006
SHEET NO.: 26 OF 26

SHEET NAME: **PR-1**

NOTES:

1. THIS MAP AND SURVEY HAVE BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20–300b–1 THROUGH 20–300b–20. THIS IS A PERIMETER SURVEY BASED ON A DEPENDENT RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A–2 EXCEPT FOR THE PROPERTY BOUNDARY BETWEEN THE SUBJECT PARCEL AND THE CENTRAL VERMONT RAILWAY INC. IS CERTIFIED TO HORIZONTAL ACCURACY CLASS C DUE TO THE LACK OF GEOMETRIC INFORMATION ON THE FILED RAILWAY MAPS AND THE LACK OF PHYSICAL BOUNDS MARKING THE RIGHT A WAY OF THE RAILROAD.

2. MAP REFERENCE:
   A. "PROPERTY OF CONNECTICUT YANKEE GIRL SCOUT COUNCIL, INC. TOLLAND AND ELLINGTON, CONN" BY MORTON S. FINE CIVIL ENGINEER & LAND SURVEYOR. DATE: 7 JUNE 1962. SCALE: 1"=200'.
   B. "PLAN OF LAND PREPARED FOR STEPHEN D. WILLIAMS IN TOLLAND, CONNECTICUT" BY GARDNER & PETERSON ASSOCIATES. DATE: 11–9–88. MAP NO: 8271–A.
   C. "SUBDIVISION PLAN SETTLERS RIDGE – PHASE 1A TOLLAND, CONNECTICUT" BY GARDNER PETERSON ASSOCIATES. DATE: 7–6–98. REVISED: 7–22–99. MAP NO: 8271–P1A.
   D. "CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP TOWN OF TOLLAND WILLIMANTIC–STAFFORD SPRINGS ROAD FROM THE WILLINGTON TOWN LINE N'LY TO THE ELLINGTON TOWN LINE. ROUTE NO. 32" APPROVED WILLIAM J. COX. DATE: SEPT 30, 1940. REVISED DECEMBER 1959. NUMBER: 142–06. SHEET 1 OF 1.
   E. PROPERTY OF ELISE C. MILLS ELLINGTON, CONN" BY GENKINSON & MARTELLI, CIVIL ENG'RS. DATE: NOVEMBER 1938.
   F. "RIGHT OF WAY AND TRACK MAP NEW LONDON NORTHERN R.R. CO. OPERATED BY THE CENTRAL VERMONT RY. CO. STATION 2481+60 TO STATION 2534+40" BY THE OFFICE OF VALUATION ENGINEER ST. ABLANS VERMONT. SHEET V–1/48.
   G. "MAP PREPARED FOR PETER ROMAN & HELEN C. ROMAN STAFFORD SPRINGS – WILLIMANTIC ROAD ELLINGTON, CT CONN. ROUTE #32 CLASS 'D' BOUNDARY MAP" BY WILLIAM W. SYMONDS, SR. DATE: AUGUST 30, 1999.

3. BEARINGS DEPICTED ON THIS PLAN ARE BASED ON THE 1983 NORTH AMERICAN DATUM (NAD 83/87) BASED ON GPS COORDINATES PROVIDED BY SLR CONSULTING.

4. INLAND WETLANDS DEPICTED ON THIS PLAN WERE DELINEATED BY SLR CONSULTING.

I HEREBY DECLARE THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

ERIC R. PETERSON — L.S. 23430 REGISTRATION NO.

LEGEND

- PROPERTY LINE
- IRON PIPE/REBAR FOUND
- DRILL HOLE FOUND
- UTILITY POLE
- OVERHEAD WIRES
- EDGE PAVEMENT
- STONEWALL
- TREE WITH BLAZE OR WIRE
- STORM CULVERT
- RAILROAD TRACKS
- BROOK
- METAL BEAM RAIL
- INLAND WETLAND

GRAPHIC SCALE 1"=60'

STATE OF CONNECTICUT — ERIC R. PETERSON — No. 23430 — LICENSED LAND SURVEYOR

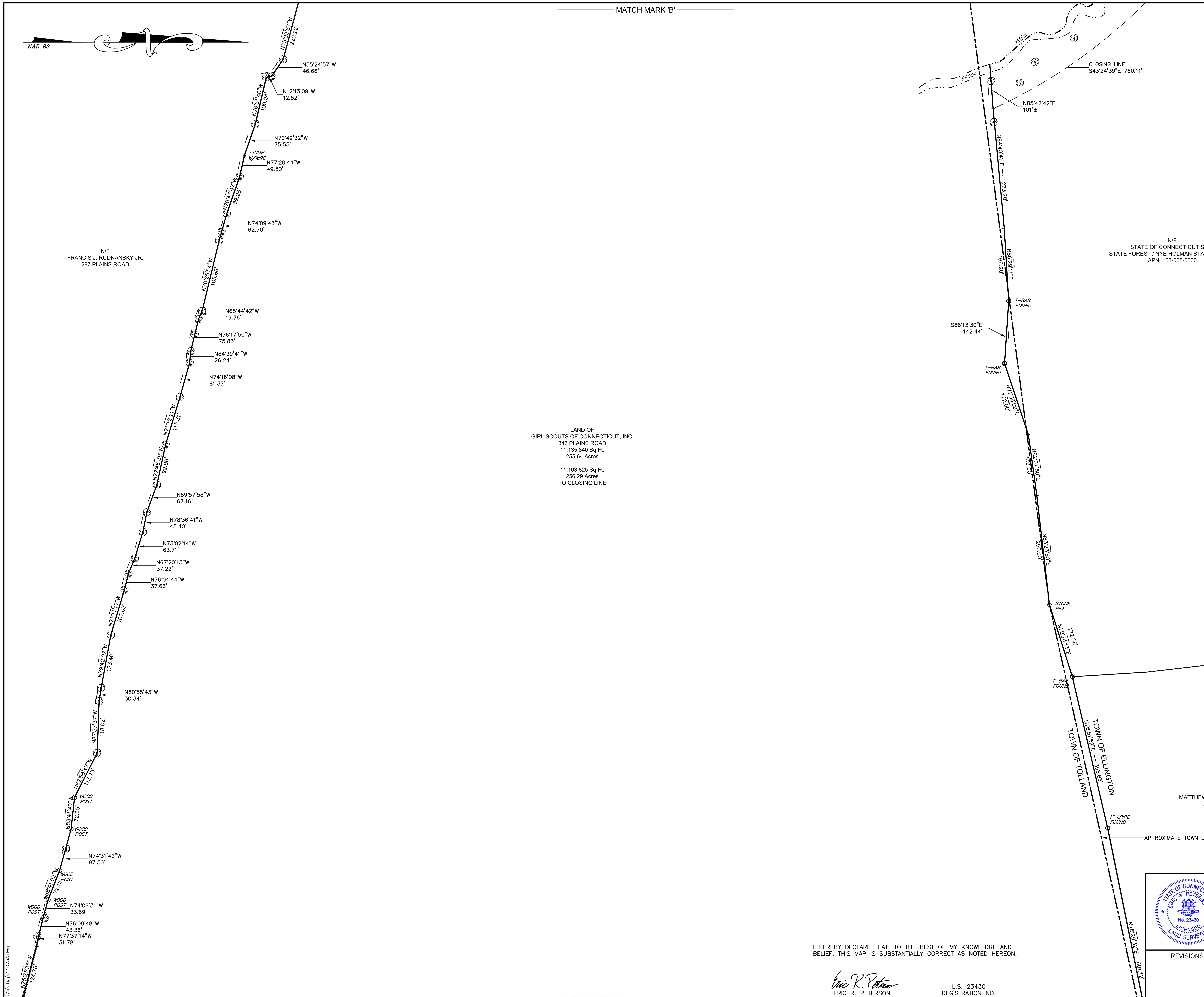
REVISIONS

PERIMETER SURVEY
LAND OF THE
GIRL SCOUTS OF CONNECTICUT, INC.
343 PLAINS ROAD
TOLLAND, CONNECTICUT

GARDNER & PETERSON ASSOCIATES, LLC
178 HARTFORD TURNPIKE
TOLLAND, CONNECTICUT
PROFESSIONAL ENGINEERS LAND SURVEYORS

BY	SCALE	DATE	SHEET NO.	MAP NO.
E.R.P.	1"=100'	11-09-2022	1 OF 3	11075 A

g:\1Plot\11075\Survey\11-09-2022\11075A.pdf
11075\dwg\11075A.dwg



NOTES:

1. THIS MAP AND SURVEY HAVE BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20–300b–1 THROUGH 20–300b–20. THIS IS A PERIMETER SURVEY BASED ON A DEPENDENT RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A–2 EXCEPT FOR THE PROPERTY BOUNDARY BETWEEN THE SUBJECT PARCEL AND THE CENTRAL VERMONT RAILWAY INC. IS CERTIFIED TO HORIZONTAL ACCURACY CLASS C DUE TO THE LACK OF GEOMETRIC INFORMATION ON THE FILED RAILWAY MAPS AND THE LACK OF PHYSICAL BOUNDS MARKING THE RIGHT A WAY OF THE RAILROAD.

2. MAP REFERENCE:
   A. "PROPERTY OF CONNECTICUT YANKEE GIRL SCOUT COUNCIL, INC. TOLLAND AND ELLINGTON, CONN" BY MORTON S. FINE CIVIL ENGINEER & LAND SURVEYOR. DATE: 7 JUNE 1962. SCALE: 1"=200'.
   B. "PLAN OF LAND PREPARED FOR STEPHEN D. WILLIAMS IN TOLLAND, CONNECTICUT" BY GARDNER & PETERSON ASSOCIATES. DATE: 11–9–88. MAP NO: 8271–A.
   C. "SUBDIVISION PLAN SETTLERS RIDGE – PHASE 1A TOLLAND, CONNECTICUT" BY GARDNER PETERSON ASSOCIATES. DATE: 7–6–98. REVISED: 7–22–99. MAP NO: 8271–P1A.
   D. "CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP TOWN OF TOLLAND WILLIMANTIC–STAFFORD SPRINGS ROAD FROM THE WILLINGTON TOWN LINE N'LY TO THE ELLINGTON TOWN LINE. ROUTE NO. 32" APPROVED WILLIAM J. COX. DATE: SEPT 30, 1940. REVISED DECEMBER 1959. NUMBER: 142–06. SHEET 1 OF 1.
   E. PROPERTY OF ELISE C. MILLS ELLINGTON, CONN" BY GENKINSON & MARTELLI, CIVIL ENG'RS. DATE: NOVEMBER 1938.
   F. "RIGHT OF WAY AND TRACK MAP NEW LONDON NORTHERN R.R. CO. OPERATED BY THE CENTRAL VERMONT RY. CO. STATION 2481+60 TO STATION 2534+40" BY THE OFFICE OF VALUATION ENGINEER ST. ABLANS VERMONT. SHEET V–1/48.
   G. "MAP PREPARED FOR PETER ROMAN & HELEN C. ROMAN STAFFORD SPRINGS – WILLIMANTIC ROAD ELLINGTON, CT CONN. ROUTE #32 CLASS 'D' BOUNDARY MAP" BY WILLIAM W. SYMONDS, SR. DATE: AUGUST 30, 1999.

3. BEARINGS DEPICTED ON THIS PLAN ARE BASED ON THE 1983 NORTH AMERICAN DATUM (NAD 83/87) BASED ON GPS COORDINATES PROVIDED BY SLR CONSULTING.

4. INLAND WETLANDS DEPICTED ON THIS PLAN WERE DELINEATED BY SLR CONSULTING.

LEGEND

- PROPERTY LINE
- IRON PIPE/REBAR FOUND
- DRILL HOLE FOUND
- UTILITY POLE
- OVERHEAD WIRES
- EDGE PAVEMENT
- STONEWALL
- TREE WITH BLAZE OR WIRE
- STORM CULVERT
- RAILROAD TRACKS
- BROOK
- METAL BEAM RAIL

60 30 0 60 120 180
GRAPHIC SCALE 1"=60'

I HEREBY DECLARE THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

ERIC R. PETERSON — L.S. 23430 REGISTRATION NO.

STATE OF CONNECTICUT · ERIC R. PETERSON · No. 23430 · LICENSED LAND SURVEYOR

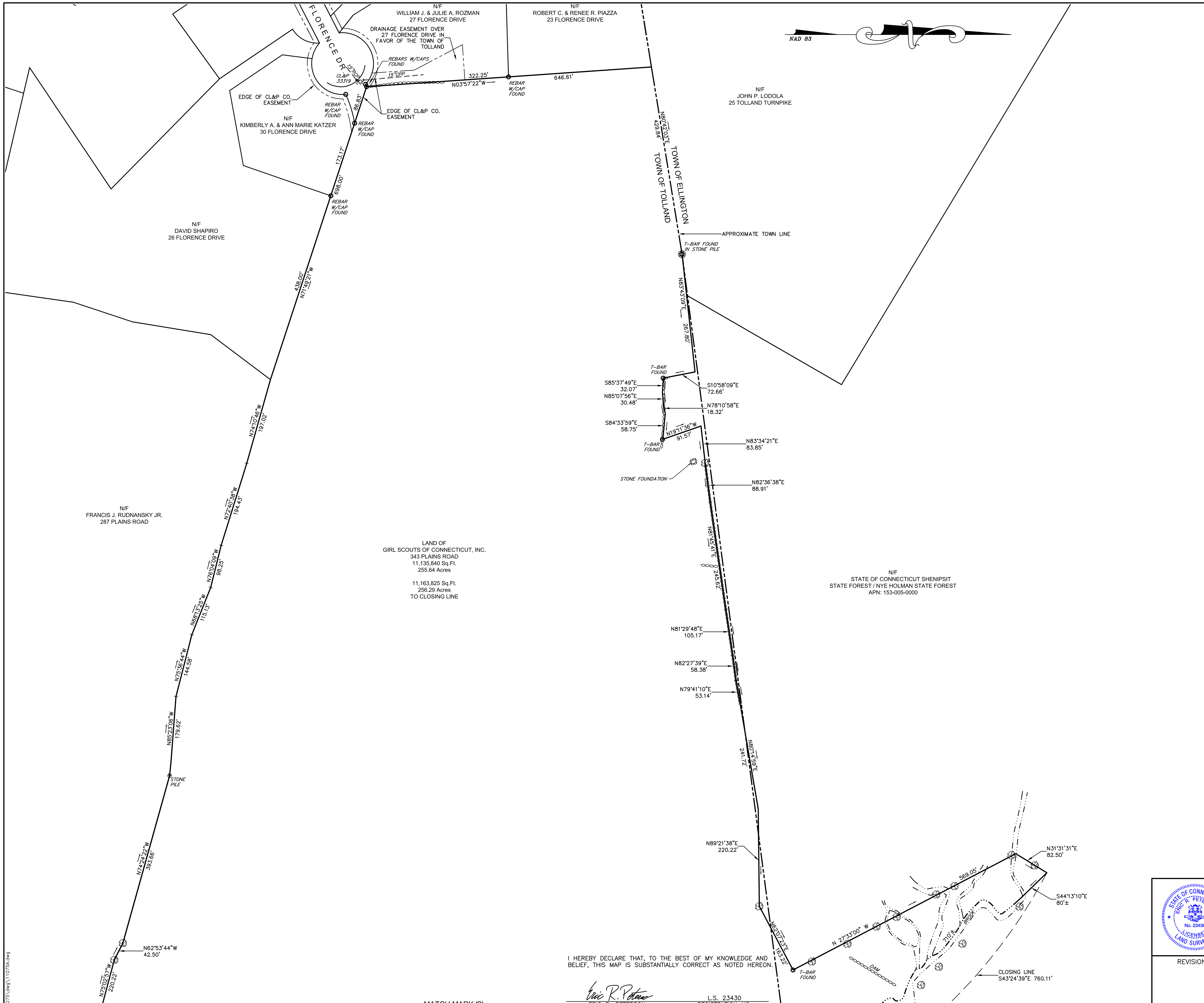
REVISIONS

PERIMETER SURVEY
LAND OF THE
GIRL SCOUTS OF CONNECTICUT, INC.
343 PLAINS ROAD
TOLLAND, CONNECTICUT

GARDNER & PETERSON ASSOCIATES, LLC
178 HARTFORD TURNPIKE
TOLLAND, CONNECTICUT
PROFESSIONAL ENGINEERS LAND SURVEYORS

BY	SCALE	DATE	SHEET NO.	MAP NO.
E.R.P.	1"=100'	11-09-2022	2 OF 3	11075 A

11075\dwg\11075A.dwg



NOTES:

1. THIS MAP AND SURVEY HAVE BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300b-1 THROUGH 20-300b-20. THIS IS A PERIMETER SURVEY BASED ON A DEPENDENT RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A-2 EXCEPT FOR THE PROPERTY BOUNDARY BETWEEN THE SUBJECT PARCEL AND THE CENTRAL VERMONT RAILWAY INC. IS CERTIFIED TO HORIZONTAL ACCURACY CLASS C DUE TO THE LACK OF GEOMETRIC INFORMATION ON THE FILED RAILWAY MAPS AND THE LACK OF PHYSICAL BOUNDS MARKING THE RIGHT A WAY OF THE RAILROAD.

2. MAP REFERENCE:
   A. "PROPERTY OF CONNECTICUT YANKEE GIRL SCOUT COUNCIL, INC. TOLLAND AND ELLINGTON, CONN" BY MORTON S. FINE CIVIL ENGINEER & LAND SURVEYOR. DATE: 7 JUNE 1962. SCALE: 1"=200'.
   B. "PLAN OF LAND PREPARED FOR STEPHEN D. WILLIAMS IN TOLLAND, CONNECTICUT" BY GARDNER & PETERSON ASSOCIATES. DATE: 11-9-88. MAP NO: 8271-A.
   C. "SUBDIVISION PLAN SETTLERS RIDGE - PHASE 1A TOLLAND, CONNECTICUT" BY GARDNER PETERSON ASSOCIATES. DATE: 7-6-98. REVISED: 7-22-99. MAP NO: 8271-P1A.
   D. "CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP TOWN OF TOLLAND WILLIMANTIC-STAFFORD SPRINGS ROAD FROM THE WILLINGTON TOWN LINE N'LY TO THE ELLINGTON TOWN LINE. ROUTE NO. 32" APPROVED WILLIAM J. COX. DATE: SEPT 30, 1940. REVISED DECEMBER 1959. NUMBER: 142-06. SHEET 1 OF 1.
   E. PROPERTY OF ELISE C. MILLS ELLINGTON, CONN" BY GENKINSON & MARTELLI, CIVIL ENG'RS. DATE: NOVEMBER 1938.
   F. "RIGHT OF WAY AND TRACK MAP NEW LONDON NORTHERN R.R. CO. OPERATED BY THE CENTRAL VERMONT RY. CO. STATION 2481+60 TO STATION 2534+40" BY THE OFFICE OF VALUATION ENGINEER ST. ABLANS VERMONT. SHEET V-1/48.
   G. "MAP PREPARED FOR PETER ROMAN & HELEN C. ROMAN STAFFORD SPRINGS - WILLIMANTIC ROAD ELLINGTON, CT CONN. ROUTE #32 CLASS 'D' BOUNDARY MAP" BY WILLIAM W. SYMONDS, SR. DATE: AUGUST 30, 1999.

3. BEARINGS DEPICTED ON THIS PLAN ARE BASED ON THE 1983 NORTH AMERICAN DATUM (NAD 83/87) BASED ON GPS COORDINATES PROVIDED BY SLR CONSULTING.

4. INLAND WETLANDS DEPICTED ON THIS PLAN WERE DELINEATED BY SLR CONSULTING.

LEGEND

- PROPERTY LINE
- IRON PIPE/REBAR FOUND
- DRILL HOLE FOUND
- UTILITY POLE
- OVERHEAD WIRES
- EDGE PAVEMENT
- STONEWALL
- TREE WITH BLAZE OR WIRE
- STORM CULVERT
- RAILROAD TRACKS
- BROOK
- METAL BEAM RAIL

60 30 0 60 120 180
GRAPHIC SCALE 1"=60'

I HEREBY DECLARE THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

Eric R. Peterson
ERIC R. PETERSON

L.S. 23430
REGISTRATION NO.

STATE OF CONNECTICUT ERIC R. PETERSON No. 23430 LICENSED LAND SURVEYOR

REVISIONS

PERIMETER SURVEY
LAND OF THE
GIRL SCOUTS OF CONNECTICUT, INC.
343 PLAINS ROAD
TOLLAND, CONNECTICUT

GARDNER & PETERSON ASSOCIATES, LLC
178 HARTFORD TURNPIKE
TOLLAND, CONNECTICUT
PROFESSIONAL ENGINEERS LAND SURVEYORS

BY	SCALE	DATE	SHEET NO.	MAP NO.
E.R.P.	1"=100'	11-09-2022	3 OF 3	11075 A

11075\dwg\11075A.dwg

January 27, 2023

Ms. Diana Mahoney
Chief Executive Officer
Hartford Service Center
340 Washington Street
Hartford, CT 06106

Re: Wetland Delineation
Camp Yankee Trails – Phase 1 Detailed Design
Girl Scouts of Connecticut
Tolland, Connecticut
SLR #141.13280.00006

Dear Ms. Mahoney,

On October 7, 2022, Matthew Sanford, Registered Soil Scientist and Professional Wetland Scientist, and Meaghan Fogarty, Environmental Scientist, both of SLR International Corporation (SLR) visited the Camp Yankee Trails site, located at 343 Plains Road in Tolland, Connecticut (**Figure 1**). The purpose of the site investigation was to determine the presence or absence of wetlands and/or watercourses and delineate boundaries of wetlands and watercourses, as defined by local, state, and federal statutes. Our investigation was limited to approximately 27 acres of the site's approximately 287-acre property, based on locations of proposed improvements. In summary, regulated resources within the study area consist of Sweetheart Lake, an adjacent forested wetland, an open water/emergent marsh wetland, and two isolated forested wetlands.

The subject site, a Girl Scouts of Connecticut camp, is located within a largely undeveloped portion of northeastern Tolland. It is accessible from the east via Plains Road and supports a number of buildings, including troop houses, a boathouse, and a dining hall. The New England Central railroad line is situated along the eastern property boundary. Approximately 200 feet off site to the east, the Willimantic River flows south between the railroad and River Road. Bonemill Brook, which flows east through the subject property, is impounded by an earthen dam at the eastern extent of Sweetheart Lake. A spillway conveys the watercourse east, where it flows for approximately 1,000 feet before draining into the Willimantic River. Topography on site generally slopes down from west to east, towards the Willimantic River. Approximate elevations within the study area range from 425 to 534 feet above mean sea level (MSL).

The site is located within the northern portion of the Willimantic River subregional watershed (basin #3100), which spans 51.2 square miles from Stafford to Windham. The Willimantic River flows south to its convergence with the Shetucket River in Windham before draining into the Thames River in Norwich. The

Thames River empties into the Long Island Sound in New London/Groton. According to the most recent Federal Emergency Management Agency (FEMA) mapping (effective April 1, 1982) no digital data is available regarding onsite flood hazards.

Wetland Delineation

Inland wetlands and watercourses within the project site were delineated in accordance with the regulations of the Town of Tolland, Connecticut, and the State of Connecticut Inland Wetlands and Watercourses Act, CGS 22a-36 through 45. State-regulated wetland areas consist of any of the soil types designated by the National Cooperative Soils Survey as poorly drained, very poorly drained, alluvial, or floodplain. Regulated watercourses consist of rivers; streams; brooks; waterways; lakes; ponds; marshes; swamps; bogs; and all other bodies of water, natural or artificial, vernal or intermittent, public or private, not regulated pursuant to Sections 22a-28 to 22a-35 inclusive (tidal wetlands). Intermittent watercourse determinations were made based on the presence of a defined permanent channel and bank and the occurrence of two or more of the following characteristics: A) evidence of scour or deposits of recent alluvium or detritus, B) the presence of standing or flowing water for a duration longer than a particular storm incident, and C) the presence of hydrophytic vegetation. On the day of the site investigation, weather conditions were sunny with an air temperature of approximately 65°F. Site conditions were suitable for wetland delineation work.

Inland wetland delineation methods followed the 1987 U.S. Army Corps of Engineers (USACE) *Wetlands Delineation Manual* (USACE, 1987) and *Regional Supplement to the Corps of Engineers Wetland Delineation Manual for the Northcentral and Northeast Region* (USACE, 2012). The classification system of the National Cooperative Soil Survey and Field Indicators of Hydric Soils in the United States (USDA, 2017) were used in this investigation. Soils were examined using a Dutch auger. Geospatial data was accessed via the United States Department of Agriculture – Natural Resources Conservation Service (USDA-NRCS) web soil survey mapping. The soil survey mapping is appended (**Figure 2**). The survey identifies the following soil mapping units with associated NRCS map numbers in the study area:

- Nipmuck-Brookfield complex, very rocky (72C & 72E) – Well drained
- Fluvaquents-Udifluvents complex, frequently flooded (109) – Poorly drained

In general, the soils observed within the project area were consistent with those mapped by the USDA-NRCS web soil survey. Please note that SLR did not fully delineate the upland soil types within the project area. Sequentially numbered flags delineating the boundary of the ordinary high water (OHW) line along the lake (blue) and state and federal wetlands (pink) were attached to sturdy vegetation within the study area and generally spaced every 30 to 50 feet; the locations were recorded using a handheld Global Positioning System (GPS) unit with submeter accuracy. The flag locations and numbers are depicted on the attached wetlands and watercourses map (**Figure 3**). Complete boundaries are located along the lines that

connect these sequentially numbered flags. The delineated wetland resources are described further below.

Sweetheart Lake/Bonemill Brook

The OHW boundary of Sweetheart Lake was delineated within the study area, represented by flags Ohw-1 through Ohw-62 (Figure 3). On the day of investigation, the lake's water surface elevation was significantly lower than its OHW, which can be attributed to the moderate to severe summer drought conditions affecting Connecticut this year. Bonemill Brook flows into the lake at its western extent. Two dock structures extend towards the center from the northern shore, and a riprap bar bisects the lake at its narrowest point to create a sediment forebay along its western shoreline. The earthen dam at the eastern extent contains a stone and concrete spillway, which conveys Bonemill Brook east through a triple-pipe culvert below Plains Road. The lake's substrate is comprised of silt, sand, and organic materials.

The lake is generally surrounded by upland forest, supporting a canopy of eastern white pine (*Pinus strobus*), eastern white oak (*Quercus alba*), black oak (*Quercus velutina*), northern red oak (*Quercus rubra*), sugar maple (*Acer saccharum*), and red maple (*Acer rubrum*). The margins of the lake, directly along its OHW line, support gray birch (*Betula populifolia*), black cherry (*Prunus serotina*), scrub oak (*Quercus ilicifolia*), alder (*Alnus sp.*), highbush blueberry (*Vaccinium corymbosum*), and mountain laurel (*Kalmia latifolia*). Below the OHW line, hydrophytic herbaceous vegetation has populated areas once inundated by the lake, including water purslane (*Ludwigia palustris*), rice cut grass (*Leersia oryzoides*), deer-tongue panicgrass (*Dichanthelium clandestinium*), straw-colored flatsedge (*Cyperus strigosus*), and jewelweed (*Impatiens capensis*). A small stand (approximately 20 stalks) of the highly invasive common reed (*Phragmites australis*) was observed along the northern shore of the lake, downgradient from the entry parking area. SLR recommends this stand be treated by the organization to help prevent its spread and further colonization of the lake shoreline.

Forested Wetlands

Four federal/state-regulated wetlands were delineated throughout the study area: one forested wetland adjacent to Sweetheart Lake (**Wetland A**), two isolated forested wetlands (**Wetland X and Y**), and one open water/emergent marsh wetland (**Wetland Z**).

Wetland A is a palustrine forested wetland adjacent to Sweetheart Lake, north of to the lake's northern finger, and bounded to the north, west, and east by a camp road. It is represented by flags Wa-1 through Wa-14 and abuts flags Ohw-28 through Ohw-31. The low-lying area is dominated by yellow birch (*Betula alleghaniensis*) and red maple, with an understory comprised of Japanese barberry (*Berberis thunbergii*), highbush blueberry, multiflora rose (*Rosa multiflora*), poison ivy (*Toxicodendron radicans*), sensitive fern (*Onoclea sensibilis*), cinnamon fern (*Osmundastrum cinnamomeum*), and sedges (*Carex sp.*). Stained leaves and drainage patterns confirmed persistent saturation.

Wetlands X and Y occur north of the dining hall and are represented by flags WX-1 through WX-6 and WY-1 through WY-11, respectively. They are both flat, isolated, palustrine forested wetlands supported by groundwater discharge. Stones, boulders, and microtopography throughout both wetlands contribute to their structural complexity. Neither possess a formal outlet; however, due to their geomorphic position and lack of appropriate hydrologic conditions, they are not classified as vernal pools. Both wetlands are dominated by red maple, highbush blueberry, American witch-hazel (*Hamamelis virginiana*), ferns, and sedges.

Wetland Z is a depressional system classified as palustrine open water wetland and emergent marsh. It is represented by flags WZ-1 through WZ-6 and is located in the northeast portion of the study area, north of Sweetheart Lake and just east of Plains Road. Please note, based on the defined study area, the entire boundary of this wetland system was not delineated. Vegetation along the shoreline is comprised primarily of red maple, sweet pepperbush (*Clethra alnifolia*), and highbush blueberry. The open water portion is dominated by buttonbush (*Cephalanthus occidentalis*), speckled alder (*Alnus incana*), and highbush blueberry. Herbaceous vegetation within this wetland is comprised of woolgrass (*Scirpus cyperinus*), soft rush (*Juncus effusus*), swamp beggar-ticks (*Bidens frondosa*), and sedges.

Functions and Values

SLR also assessed the study area's wetland systems based on functions and values that they perform within the localized/regional watershed, based on the USACE *Highway Methodology Workbook*. The primary functions and values of Sweetheart Lake and adjacent forested wetland (**Wetland A**) within the study area include the following:

- Recreation
- Sediment/toxicant retention
- Nutrient removal/retention/transformation
- Fish habitat
- Wildlife habitat
- Production export

The primary functions and values of the isolated forested wetland systems (**Wetlands X and Y**) within the study area include the following:

- Groundwater recharge/discharge
- Wildlife habitat (non-water dependent)

The primary functions and values of the open water/emergent marsh (**Wetland Z**) within the study area include the following:

- Sediment/toxicant retention
- Nutrient removal/retention/transformation
- Floodflow alternation
- Fish habitat
- Wildlife habitat

If you have any questions regarding this soil scientist report, please do not hesitate to contact either of the undersigned at (203) 271-1773.

Very truly yours,

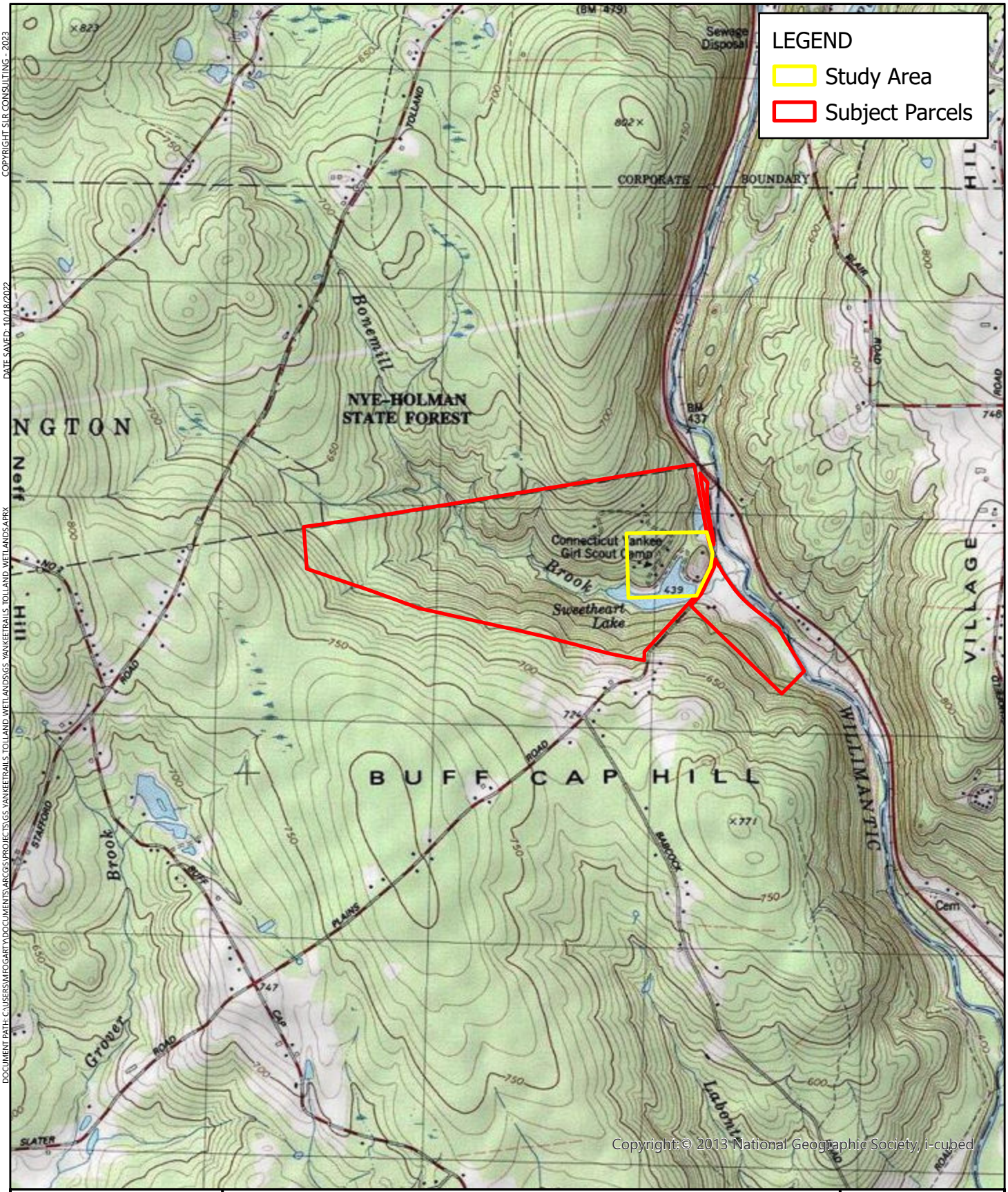
SLR International Corporation

Matthew J. Sanford, MS, PWS
US Manager of Ecology

Meaghan Fogarty
Environmental Scientist

Enclosures: Figures 1, 2, and 3
Photolog

13280.00006.j2723.ltr.docx



SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773

USGS LOCUS MAP

CAMP YANKEE TRAILS - PHASE 1
GIRL SCOUTS OF CONNECTICUT
343 PLAINS ROAD
TOLLAND, CT 06084

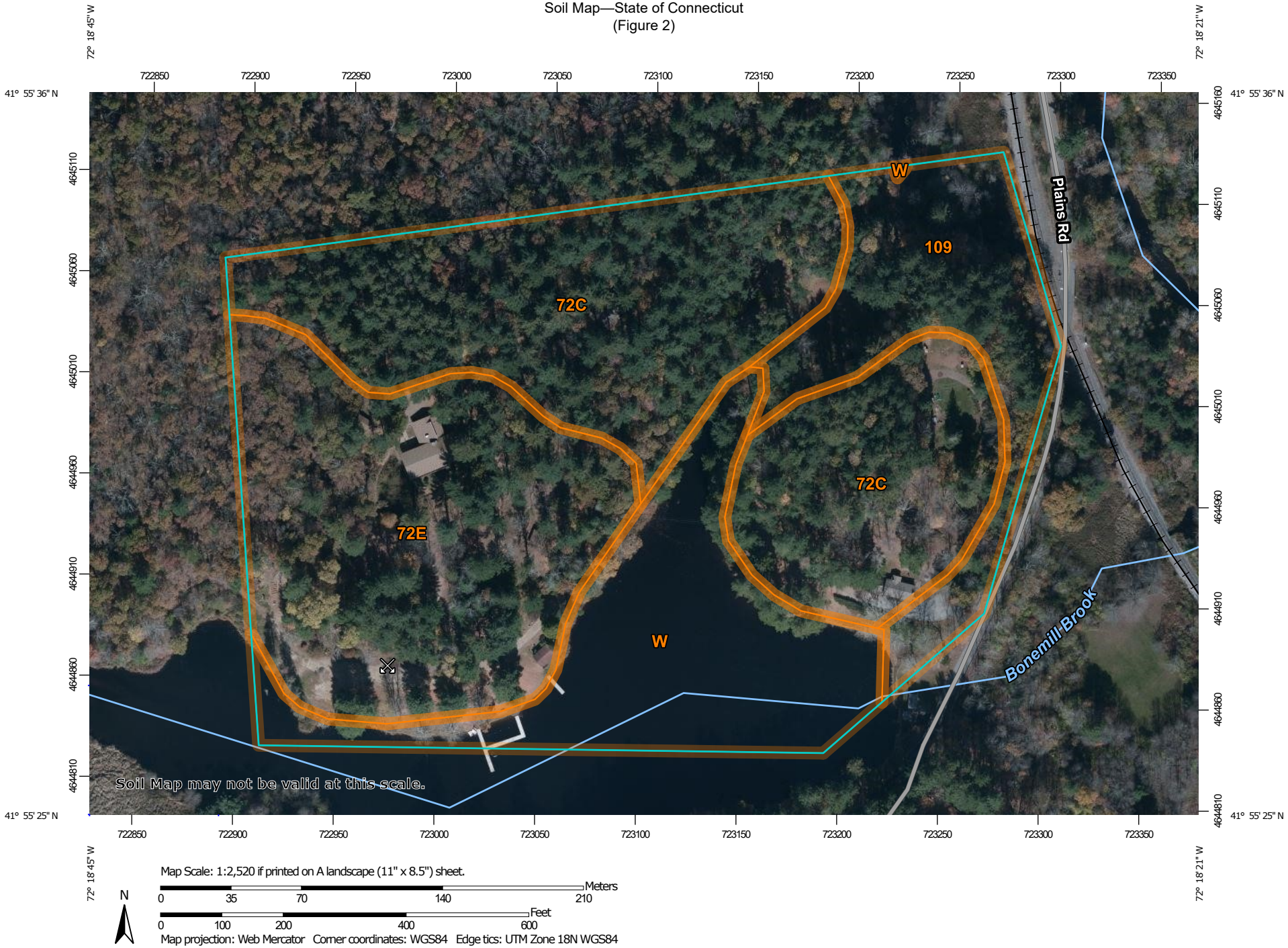
N

0 2,000
Feet

SCALE	1" = 2000'
DATE	1/26/2023
PROJ. NO.	141.13280.00006

FIG. 1

Soil Map—State of Connecticut
(Figure 2)



Map Scale: 1:2,520 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 35 70 140 210

Feet
0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut
Survey Area Data: Version 22, Sep 12, 2022

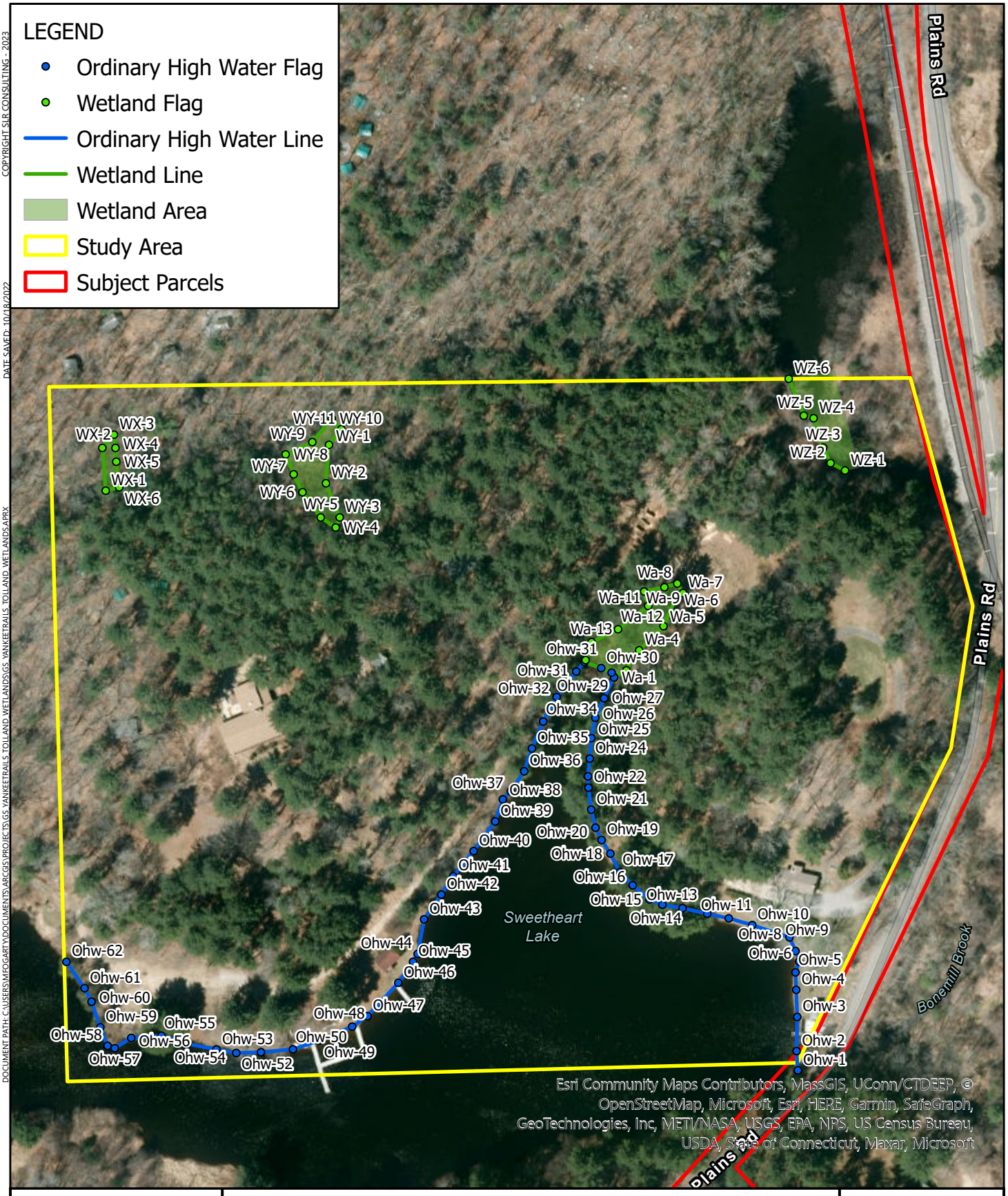
Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 3, 2019—Oct 22, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
72C	Nipmuck-Brookfield complex, 3 to 15 percent slopes, very rocky	9.8	38.8%
72E	Nipmuck-Brookfield complex, 15 to 45 percent slopes, very rocky	7.1	28.3%
109	Fluvaquents-Udifluvents complex, frequently flooded	3.5	14.0%
W	Water	4.8	19.0%
Totals for Area of Interest		**25.1**	**100.0%**



SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773

WETLANDS AND WATERCOURSES

CAMP YANKEE TRAILS - PHASE 1
GIRL SCOUTS OF CONNECTICUT
343 PLAINS ROAD
TOLLAND, CT 06084

N

0 250
Feet

SCALE 1" = 250'
DATE 1/26/2023
141.13280.00006
PROJ. NO.

FIG. 3

PHOTOGRAPHIC LOG

Client Name:	**Site Location:**	**Project No.**
Girl Scouts of Connecticut	Camp Yankee Trails – Tolland, CT	141.13280.00006

Photo No.	**Date:**
1	10/7/22

Direction Photo Taken:

Southwest

Description:

Sweetheart Lake from its northeastern shore.

Photo No.	**Date:**
2	10/7/22

Direction Photo Taken:

West

Description:

Sweetheart Lake from its northwestern shore. Note the distinct break in slope and line of perennial vegetation indicating the ordinary high water line.

PHOTOGRAPHIC LOG

Client Name:	**Site Location:**	**Project No.**
Girl Scouts of Connecticut	Camp Yankee Trails – Tolland, CT	141.13280.00006

Photo No.	**Date:**
3	10/7/22

Direction Photo Taken:

South

Description:

Riprap bar extending south into the lake from the northern shore. Exposed and vegetated due to low water levels.

Photo No.	**Date:**
4	10/7/22

Direction Photo Taken:

Northeast

Description:

Northern finger of Sweetheart Lake looking towards the adjacent forested wetland.

PHOTOGRAPHIC LOG

Client Name:	**Site Location:**	**Project No.**
Girl Scouts of Connecticut	Camp Yankee Trails – Tolland, CT	141.13280.00006

Photo No.	**Date:**
5	10/7/22

Direction Photo Taken:

South

Description:

Forested wetland adjacent to the lake, dominated by yellow birch, red maple, and Japanese barberry.

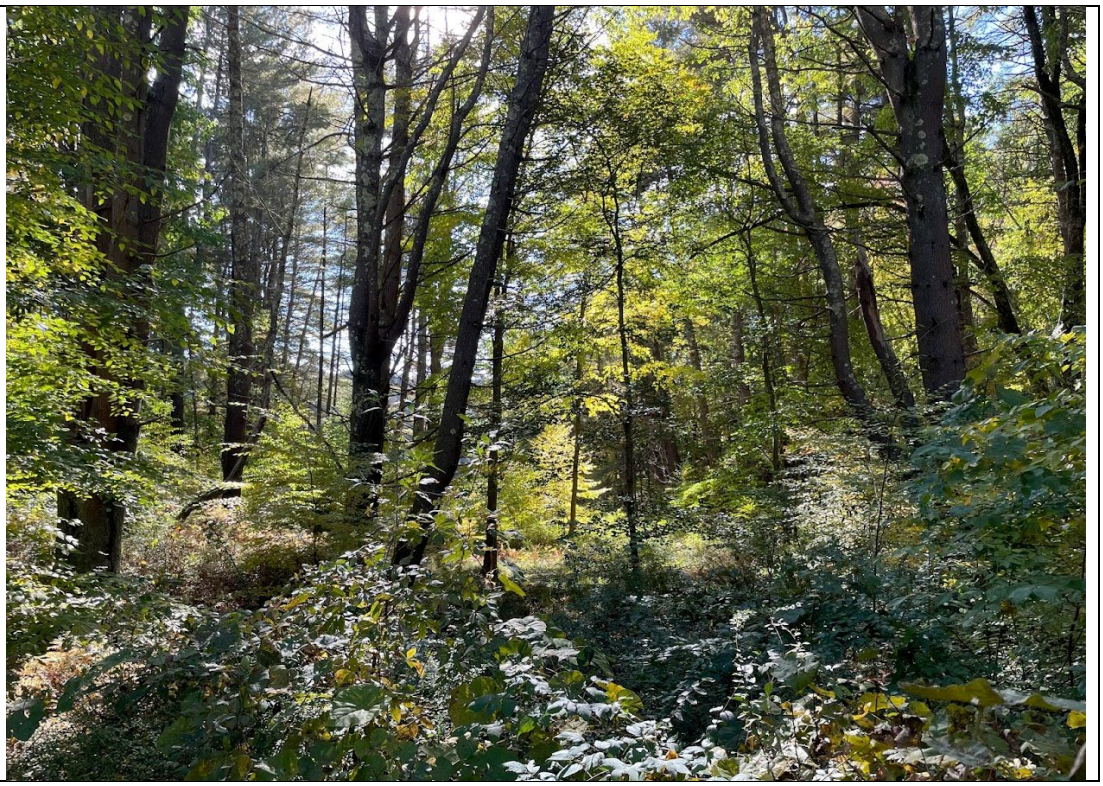
Photo No.	**Date:**
6	10/7/22

Direction Photo Taken:

North

Description:

A second view of the forested wetland adjacent to the lake.



PHOTOGRAPHIC LOG

Client Name:	**Site Location:**	**Project No.**
Girl Scouts of Connecticut	Camp Yankee Trails – Tolland, CT	141.13280.00006

Photo No.	**Date:**
7	10/7/22

Direction Photo Taken:

Northwest

Description:

Small stand of *Phragmites australis* on the lake's north shoreline.

Photo No.	**Date:**
8	10/7/22

Direction Photo Taken:
East

Description:
Wetland WA Palustrine open water/emergent wetland

PHOTOGRAPHIC LOG

Client Name:	**Site Location:**	**Project No.**
Girl Scouts of Connecticut	Camp Yankee Trails – Tolland, CT	141.13280.00006

Photo No.	**Date:**
9	10/7/22

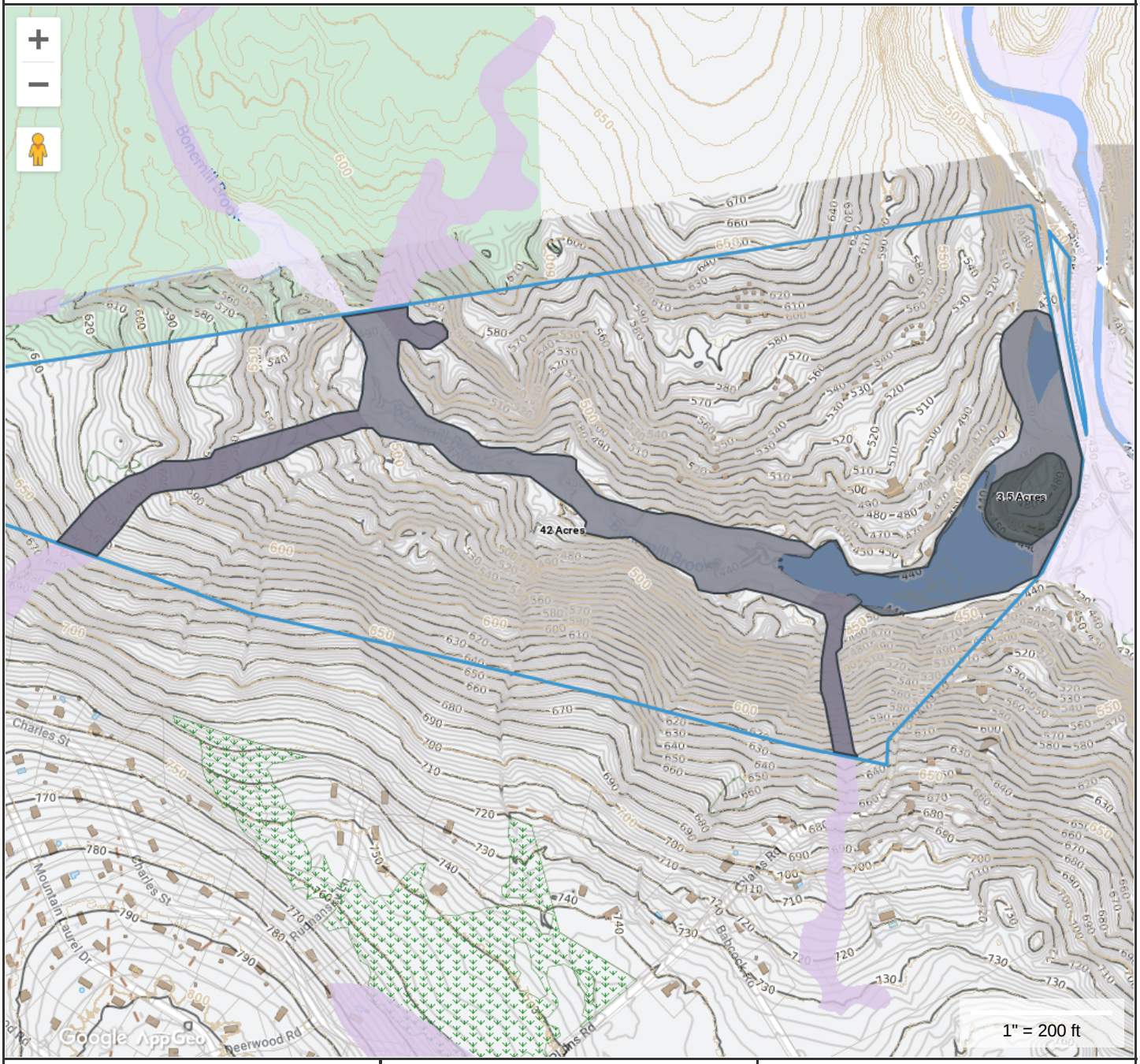
Direction Photo Taken:
East

Description:
Wetland X – Isolated Forested Wetland

Photo No.	**Date:**
10	10/7/22

Direction Photo Taken:
West

Description:
Wetland Y – Isolated Forested Wetland



Property Information

Property ID	06/A/001
Location	343 PLAINS ROAD
Owner	GIRL SCOUTS CONN TRAILS COUNCIL

MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

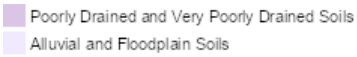
Town of Tolland, CT makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated October 25, 2021
Data updated daily

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.

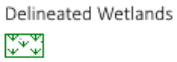
Map Theme Legends

Wetlands - Soils



CT DEEP

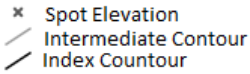
Wetlands - Delineated



Topography 2016

CT Eco Contours 2016

Topography



Cassandra Santoro

From: Michael D'Amato
Sent: Monday, October 16, 2023 1:16 PM
To: Cassandra Santoro
Subject: FW: [EXTERNAL]2023 CACIWC 46th Annual Meeting and Environmental Conference

Thanks,

Mike

From: Janice Fournier <caciwc01@gmail.com>
Sent: Monday, October 16, 2023 10:09 AM
To: conservation <conservation@Tollandct.gov>
Subject: [EXTERNAL]2023 CACIWC 46th Annual Meeting and Environmental Conference

View this email in your browser

Connecticut Association of Conservation and Inland Wetlands Commissions, Inc

deKoven House Community Center
27 Washington Street
Middletown, CT 06457
www.caciwc.org

Register not for the 2023 CACIWC Conference!

Greetings Connecticut Conservation and Inland Wetlands Commissiosns,

Registration is now underway for our **46th Annual Meeting and Environmental Conference**. The conference is scheduled for **Saturday, November 11, 2023,** at the newly constructed **Bristol Event Center**, located at 112 Century Drive, Bristol, CT 06010.

We are offering a full schedule of speakers and workshops of interest to both conservation and inland wetlands commissions and staff, see our website for additional details:
www.caciwc.org

Two methods are available to register for the conference:

1) You can register using the online form and pay by credit card, debit card, PayPal account or mail your check to our office. This form is located on our website, at:
CACIWC Annual Meeting & Environmental Conference (wufoo.com)

2) You may also register the traditional way by completing and mailing the printed form to our office along with your check. This form is also located on our website at:
Registration Form (caciwc.org)

Please note that a major discount on the registration fee is available to current CACIWC members. Two methods are also available for you or your commission to renew your membership:

1) You can renew your membership using the online form and pay by credit card, debit card, PayPal account or mail your check to our office. This form is located on our website, at:
CACIWC Membership Form 2023-24 (wufoo.com)

2) You may also renew your CACIWC membership the traditional way by completing and mailing the printed form to our office along with your check. This form is also located on our website at:
CACIWC Dues Renewal 2023-24 printable form

The renewal of your membership dues will help us fund both the conference and upcoming issues of *The Habitat*. If you have not yet seen it, please enjoy the **most recent issue of *The Habitat***, located on our website. You can download this full color issue with active website and email links within the articles and with all the ads (just click on the link or advertisement), located at:
Habitat V35 N2 2023 Summer web.pdf

Please also consider becoming a conference sponsor this year. Your sponsorship at any level (please see the sponsorship categories listed on our registration form and website) will also help us fund this in-person conference. Feel free to contact us with any questions at:
AnnualMtg@caciwc.org

Thank you, we look forward to seeing you at our 2023 annual conference!

Alan J. Siniscalchi, President
Connecticut Association of Conservation and Inland Wetlands Commissions, Inc. (CACIWC)
www.caciwc.org

Our mailing address is:

CACIWC

500 West Rd

Sangerville, ME 04479-0049

Add us to your address book

Want to change how you receive these emails?

You can update your preferences or unsubscribe from this list.

Tolland Inland Wetlands Commission

Council Chambers, 6th level Tolland Green, CT 06084

Thursday, September 21, 2023
Remote and In-person Meeting

Members Present: Raymond Culver, Chairman (in person)
Todd Penney, Vice Chair (in person)
Archie Tanner, Regular (via Zoom)
Bob Ross, Regular (in person)

Members Absent: Gary Hoehne

Others present: Michael D'Amato, interim Wetlands Agent (in person)

1. Call to Order

   Meeting recording started. Meeting called to order at 7:05 pm.

2. Seating of Alternate(s) – none

3. Public Participation – issues of concern not on the agenda (2-minute limit) – none

4. Additions/Changes to the Agenda - none

5. Public Hearing

   5.1 **IWC # 23-4 -Amendments to the Inland Wetlands and Watercourses Regulations** The Inland Wetlands and Watercourse Commission is proposing amendments to Sections 2, 4,7,10, 11 and 19. These modifications generally comprise changes to modify the definition of "upland review area", include "detached mechanical units" 15SF or less to the list of permitted and non-regulated uses, changes to clarify the application process and to update language pertaining to the expiration of permits to align with recent Statutory changes and update various references within the Regulations.

   The public hearing was opened.

   Mr. D'Amato reviewed the proposed changes (red-lined items).

   A discussion took place.
   Section 7.3, the following edits were made:
   - 2nd sentence: "Complex applications including but not limited to subdivisions as defined in Sec. 8-18 of the C.G.S. or commercial proposals that require approval from the Tolland Planning and Zoning Commission shall comply with the requirements in subsection A through F unless waived by the Commission in accordance with subsection G. of this section."

   Section 7.10, the following edits were made:
   - Red-line edit: "a period of time not to exceed the timeframes provided within C.G.S. §22a-42a (as amended)."

   Section 19-5
   - Strike the fee schedule from the regulation.

Eugene Koss noted that he is representing the Bolton Lakes Watershed Conservation Alliance this evening. This alliance is made up of representatives from Tolland, Coventry, Bolton, and Vernon. He is appreciative of the Commission's work on the regulations and the Alliance appreciates what the Commission has done with the Upland Review Area language. The Alliance's mission is to protect the Atlantic White Cedars in the upper lake (Tolland). A 300' upland review area was requested but the Alliance will work with the Commission with the 200'. It wants to ensure protection continues for the forest for many years to come. The language used provides the needed protection. Mr. Koss noted that it is important to the Alliance that maps continue to improve and evolve and that as the state of knowledge improves that compliance will improve as well. Mr. Koss addressed section 10.1.c. He recommended, if the Commission is clear to listing others, including a reference to the Bolton Lakes Watershed Conservation Alliance. It is aligned with others noted and has been in existence since the first environmental review team that looked at the lakes and strives to increase the state of knowledge of the lakes. It would be positive and helpful. Mr. Koss thanked the Commission and asked that the members attend the November CACIWC meeting.

Mr. Penney responded to Mr. Koss. He referenced page 16 where other technical agencies and organizations are referenced. The Alliance would be part of this categorization. The Commission was in agreement with not specifying the Alliance.

Penney/Ross: Motion to close Public Hearing IWC #23-4 Amendments to the Inland Wetlands and Watercourses Regulations.
Culver – Y, Penney – Y, Ross – Y, Tanner - Y
Motion passed unanimously.

6. New Business
   6.1 Possible action on IWC #23-4.

Penney/Ross: Motion to approve IWC #23-4 Amendments to the Inland Wetlands and Watercourses Regulations, Inland Wetlands and Watercourses Commission proposed amendments to Sections 2, 4,7,10, 11 and 19 effective November 1, 2023.
Culver – Y, Penney – Y, Ross – Y, Tanner - Y
Motion passed unanimously.

7. Old Business - none

8. Wetlands Agent Report
   Mr. D'Amato noted that he looked at the property on Goose Lane in August and did not see that anything had been done that was discussed. He sent photos to the property owner but did not receive a response. Mr. D'Amato drove by the property again today and it did not appear that anything had been done. Mr. Ross and Mr. Penney noted that they too have driven by the property but have not seen that anything significant has been done. Mr. D'Amato reviewed the notice sent to the property owner following the Commission's decision and noted that the property owner is past the 60 days indicated in the notice.

   A discussion took place.

   Per the Commission, Mr. D'Amato will notify the property owner that the Commission expects compliance with item #1 in the notice by the Commission's October 19th meeting or it will proceed with its citation and fine process. The Commission requested that the property owner be in attendance at the October meeting.

9. Other Business - none

10. Correspondence – none

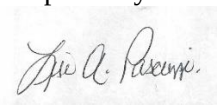
11. Approval of Minutes – June 15, 2023 Regular Meeting

Ross/Tanner: Motion to approve the June 15, 2023, Inlands Wetlands Commission regular meeting minutes.
Culver – Y, Ross – Y, Tanner – Y, Penney – A
Motion passed.

12. Adjournment

Penney/Ross: Motion to adjourn at 7:59PM.
Discussion: Mr. Tanner noted that beavers have dammed up the brook. Mr. D'Amato noted that a request was made for a permit to trap and relocate some beavers behind the Agricultural Center.
Culver – Y, Penney – Y, Ross – Y, Tanner - Y
Motion passed unanimously.

Respectfully submitted,



Lisa Pascuzzi
Substitute Clerk, Inland Wetlands Commission