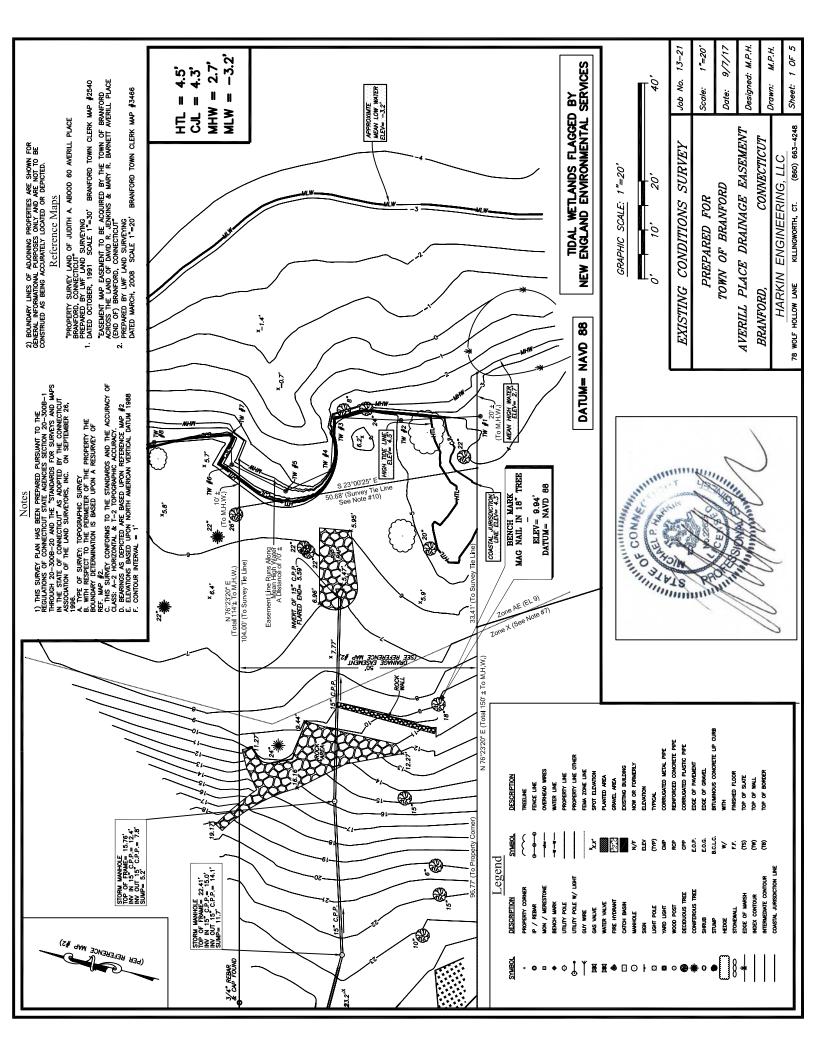
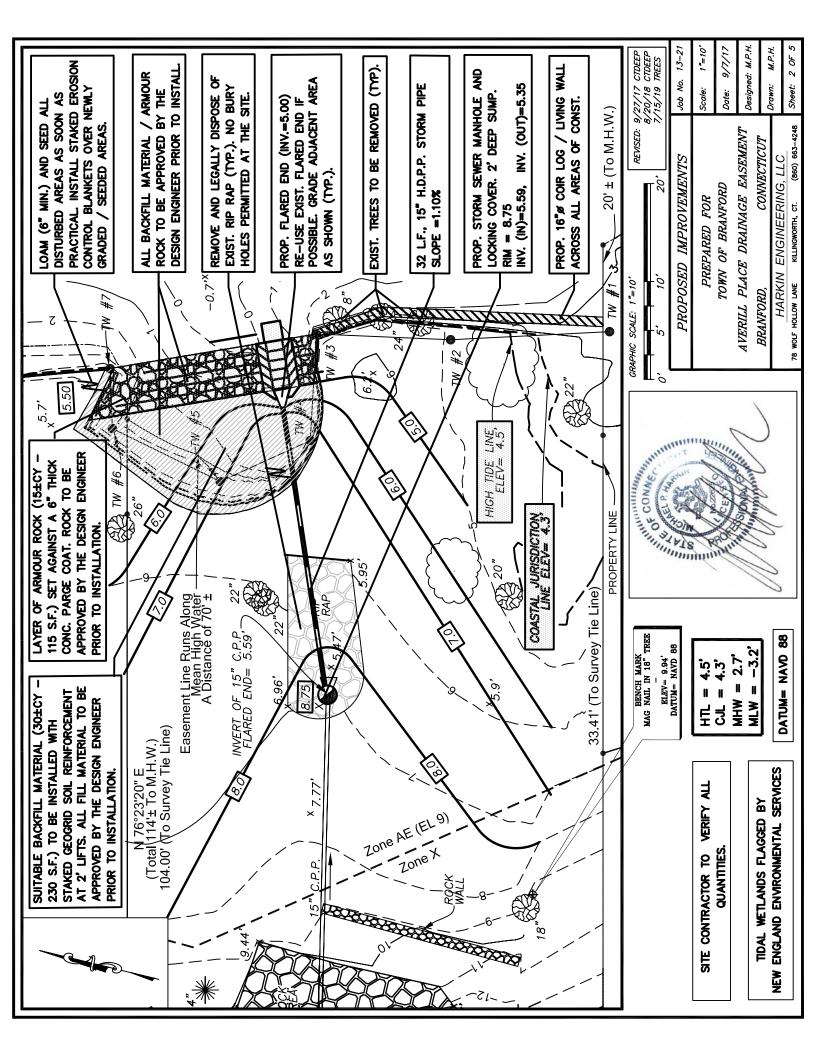
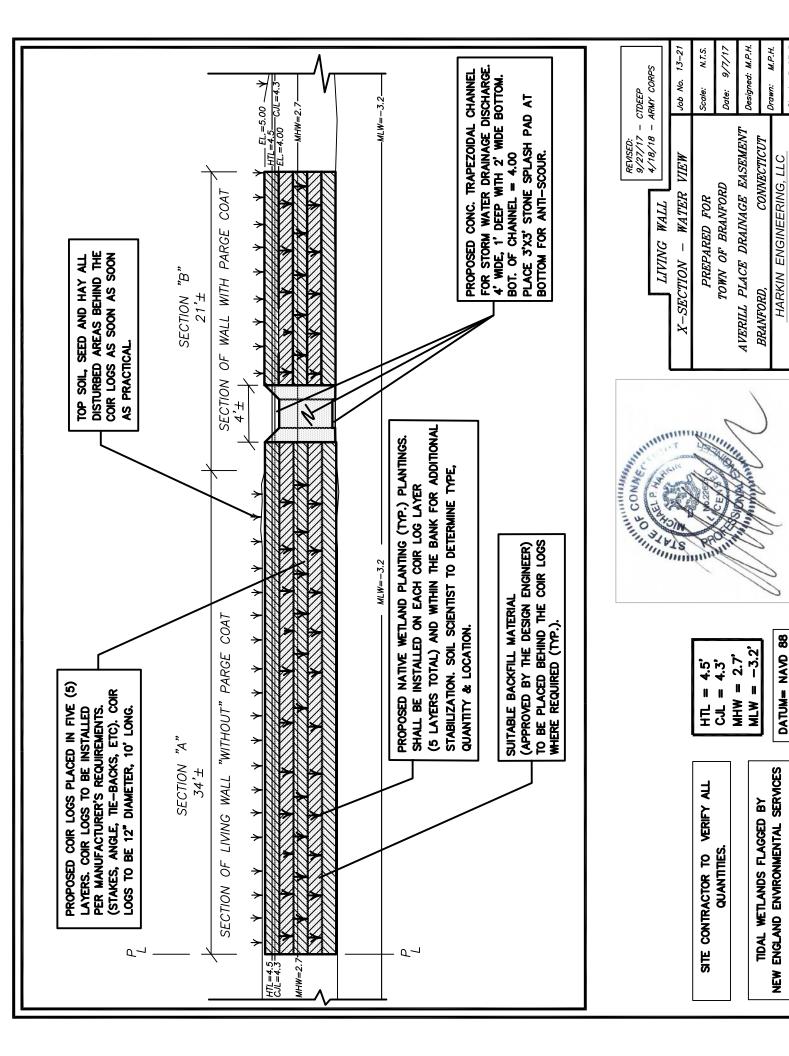
CONTRACT DRAWINGS

SHEET NO.	TITLE
1 OF 5	EXISTING CONDITIONS SURVEY
2 OF 5	PROPOSED IMPROVEMENTS
3 OF 5	LIVING WALL X-SECTION – WATER VIEW
4 OF 5	LIVING WALL X-SECTION "B" (PARGE COAT)
5 OF 5	LIVING WALL X-SECTION "A"







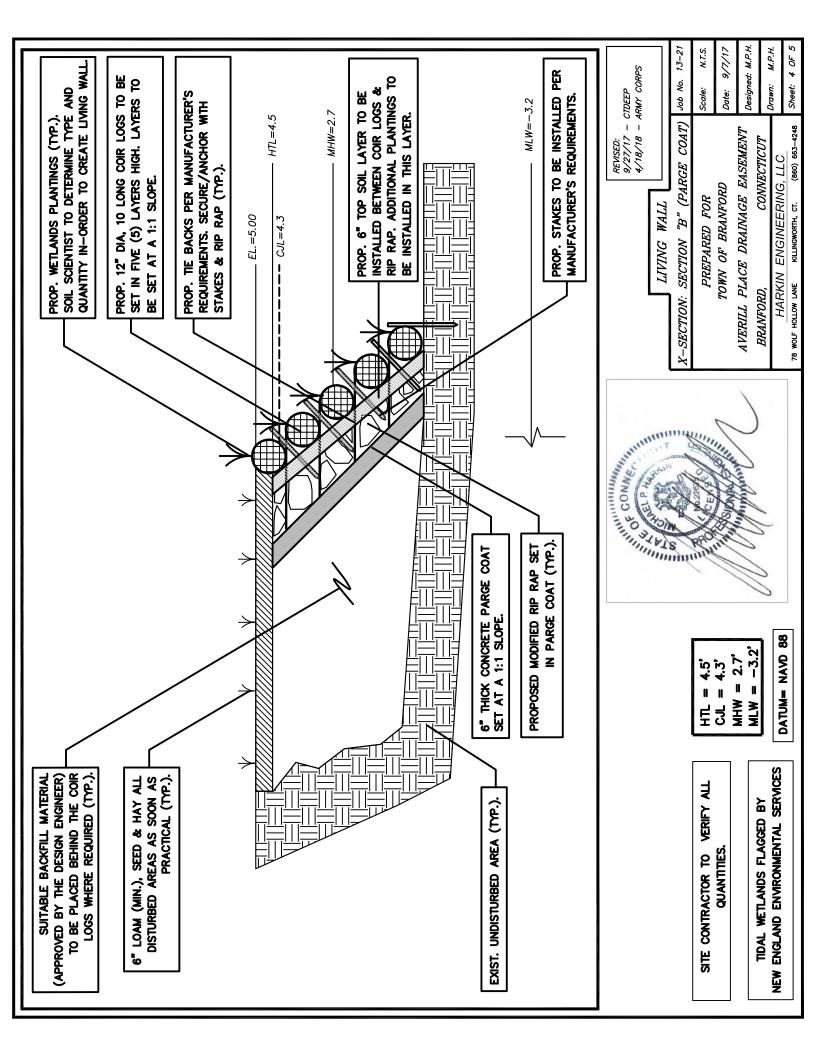
3 OF 5

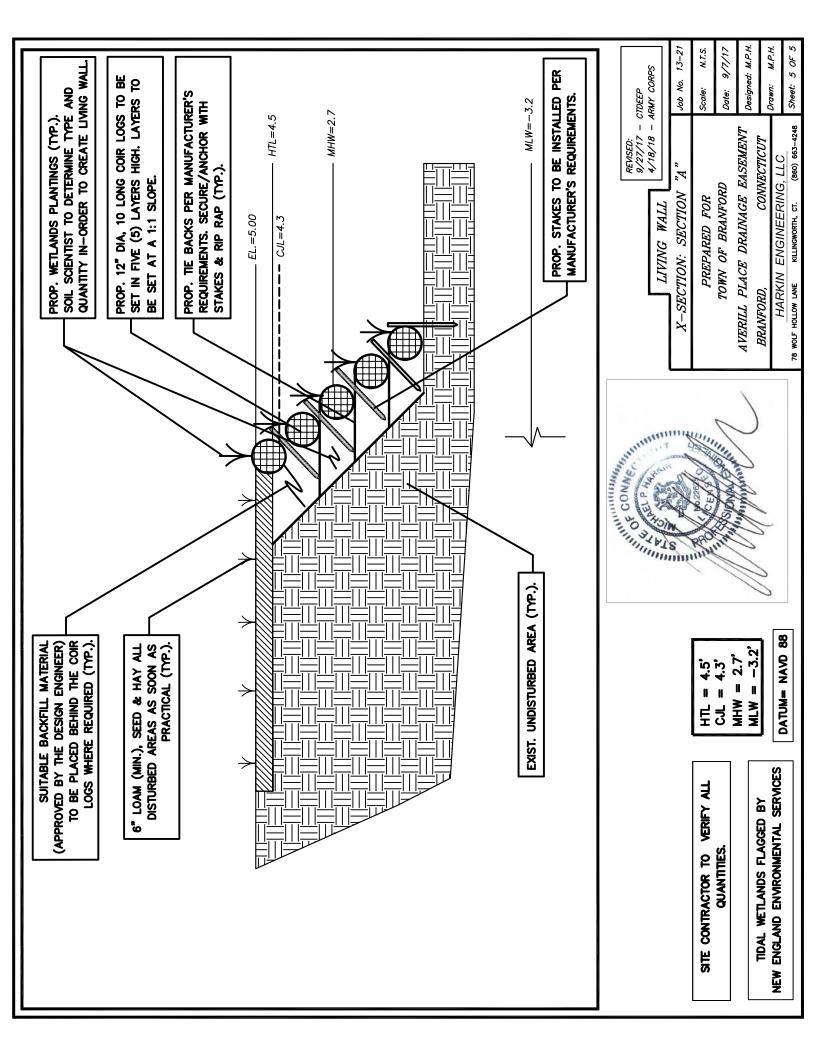
Sheet:

(860) 663-4248

KILLINGWORTH, CT.

78 WOLF HOLLOW LANE





PROJECT SPECIFICATIONS

- COIR LOGS (EFFECTIVE EROSION CONTROL)
- COIR LOGS (INSTALLATION INSTRUCTIONS)
- PLANTING PLAN FOR LIVING WALL SPECIFICATIONS (BY NEW ENGLAND ENVIRONMENTAL SERVICES)
- PROJECT SPECIFICATIONS; CTDOT FORM 817

Coir Logs Effective Erosion Control

Coconut Coir Logs are a completely biodegradable erosion control option for hills, banks, shorelines, and other erosion prone areas. Easy to install, these logs create a natural control area that helps establish growth and control erosion. Logs have been effectively used in restoration projects, stabilization areas, and construction job sites.

Standard design of the coir log features a strong, coir twine outer netting that surrounds a mixture of mattress coconut coir. Logs are designed with a typical lifespan of anywhere from 2 to 5 years.

Applications

- Channel and slope stabilization
- River bank stabilization
- Shoreline protection
- Wetland restoration
- Dam construction
- Detention Ponds
- · Highway embankment
- Mining operations
- Ski Slopes and lift traffic
- Pipeline construction
- High altitude construction sites
- Railway embankments
- Wave control structures

Benefits

- Easy to install
- Improves seed germination, vegetative growth and facilitates root development
- Helps build into existing contours
- Returns nutrients to the environment
- Requires no chemical treatment
- High air and water permeability
- Environmentally friendly
- Safe for surrounding wildlife
- Biodegrades over 2-5 years





Specifications

Diameter	Density	Weight	Length
9"	7 lbs/ft ³	3 lbs/ft	10' or 16'
12"	7 or 9 lbs/ft ³	5.5 lbs/ft	10' or 20'
16"	7 or 9 lbs/ft ³	9.5 lbs/ft	10' or 20'
20"	7 or 9 lbs/ft ³	15 lbs/ft	10' or 20'



Coir Logs Installation Instructions

Below you will find the typical installation steps for coconut coir logs. Installation requirements and methods may vary depending on the specifications of your location.

STEP I: Clear the installation area of any debris, trees, rocks or large obstructions. Coir logs are designed to come in contact with the soil, so any stumps or potential obstructions should be removed.

STEP 2: Dig a small trench in the location where the coir logs need to be placed.

STEP 3: Place the coir logs in the trench and backfill with soil so that the coir logs are tightly packed against the slope. Adjacent coir logs should be positioned so that the ends fit tightly against each other. Ends should be joined/secured together with coir twine or other suitable ties. Mattress coir fiber may be used to fill spacing between log ends.

STEP 4: Stake/anchor the coir logs into position. Coir logs should be anchored according to site requirements or specifications. Typical anchoring can be seen below:

Stream Size	Water Flow	Log Diameter	Anchor Height	Anchor Spacing
Large	Moderate	16"	3' minimum	Every 2.5'
Medium	Moderate	12"	30" minimum	Every 3'
Medium	Low	12"	30" minimum	Every 3.5'





NEW ENGLAND ENVIRONMENTAL SERVICES



BLACKLEDGE RIVER NURSERY

Planting Plan for Living Wall

Averill Place Branford, Connecticut

<u>Species</u>	Elevations	Spacing	Approx. Quantity (each)	
	2.0-2.5	1 foot	75	Payment based and Form 817
Spartina alterniflora	2.0-2.3	1 1001	75	install per unit and planting
Spartina patens	2.5-3.0	1 foot	25	establishment as a percentage
Panicum virgatum	3.0-5.0	1 foot	50	

- 1. The plants will be 2" plugs.
- 2. A potting soil containing over 10% organic matter will be put in the logs around each soil plug.
- 3. The *Panicum virgatum* plugs may need to be watered until the roots become established into the logs.

Prepared by:

R. Richard Snarski

Professional Wetlands Scientist #1391

Registered Professional Soil Scientist #1975

May 28, 2019

RRS/srh

PROJECT SPECIFICATIONS:

"Averill Place Strom Drainage & Erosion Control Project"

All work on this project shall be done in accordance with the following:

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

The Standard Specifications for Roads, Bridges, Facilities and Incidental Construction

FORM 817

Dated: 2016

Merged with SUPPLEMENTAL SPECIFICATIONS

Dated: January 2019

All Form 817 specifications listed below can be found on the CTDOT Website.

Specifically, the following sections shall be implemented as part of this project:

Division I

General Requirements and Covenants:

Sections:

1.01 Thru 1.20-9.75

Division II

Construction Details:

Sections:

- 2.01 Clearing and Grubbing
- 2.02 Roadway Excavation, Formation of Embankment and Disposal
- 2.03 Structure Excavation
- 2.11 Anti Tracking Pad

Division II Continued.....

Construction Details:

Sections:

- 2.13 Granular Fill
- 2.19 Sedimentation Control System

Division II

Structures:

Sections:

- 5.01 General Clauses
- 5.07 Catch Basins, Manholes and Drop Inlets
- 5.13 Polyvinyl Chloride Plastic Pipe
- 6.01 Concrete for Structures
- 6.11 Shotcrete
- 6.51 Culverts
- 6.52 Culvert Ends
- 6.53 Cleaning Existing Drainage System

Division II

Incidental Construction:

Sections:

- 7.03 Riprap
- 7.17 Earth Retaining System Left in Place
- 7.28 Crushed Stone for Slope Protection
- 7.55 Geotextile
- 8.03 Paved Ditches, paved Aprons and Paved Channels
- 9.15 Tree Root Protection
- 9.44 Topsoil
- 9.50 Turf Establishment, Erosion Control Matting
- 9.52 Selective Clearing and Thinning
- 9.75 Mobilization and Project Closeout
- 9.80 Construction Staking

Division III

Materials Section:

Sections:

- M.01 Gradation of Aggregates
- M.02 Granular Fill, Subbase, Granular Base and Surfaces, Stone Base, Pervious Structure Backfill, Free Draining Material, Crusher-Run Stone
- M.03 Portland Cement Concrete
- M.08 Drainage
- M.12 Bearing Areas, Riprap, Slope Paving & Slope Protection, Waterproofing and Damp-proofing, Stone and Granite, Slope Curbing, Calcium Chloride for Dust Control, Wood