MAINTENANCE REQUIREMENTS FOR WET SWALE:

WET SWALES FUNCTION AT THEIR BEST WHEN THERE IS A NEW VEGETATIVE SYSTEM CONSISTING OF FACULATIVE WETLAND PLANTS AND THERE IS A SATURATED CONDITION WITHIN THE SWALE. THESE DESIRABLE ATTRIBUTES ACTUALLY REDUCE THE MAINTENANCE REQUIREMENTS OF A WET SWALE.

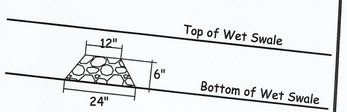
1. INSPECT WET SWALE TWICE A YEAR AND REMOVED WOODY DEBRIS WHICH MAY HAVE FALLEN INTO THE WET SWALE.
2. THE INTRODUCTION OF COARSE AND FINE SEDIMENTS IN THE RUNOFF FROM BOULDER LANE WILL HELP CREATE A WETTER ENVIRONMENT IN THE WET SWALE AND DO NOT NEED TO BE REMOVED. THE WETTER ENVIRONMENT IMPROVES THE POLLUTANT REMOVAL CAPABILITIES OF THE WET SWALE.
3. HERBACEOUS VEGETATION IN THE WET SWALE DOES NOT NEED TO TRIMMED OR MAINTAINED. WOODY VEGETATION SHALL BE REMOVED BY HAND IF FOUND IN THE SWALE.

NOTE: EXCAVATED SOIL SHALL BE REMOVED FROM THE AREA OF THE WET SWALE AND DISPOSED OF IN A LOCATION DETERMINED BY THE TOWN OF EAST HAMPTON

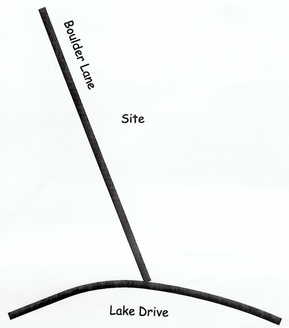
NOTE: PROPERTY LINES WERE TAKEN FROM TOWN OF EAST HAMPTON GIS SYSTEM. TOPOGRAPHIC INFORMATION WAS OBTAINED IN THE FIELD BY DUBIEL ASSOCIATES AND TRINKAUS ENGINEERING, LLC. BENCH MARK IS SHOWN ON SITE PLAN

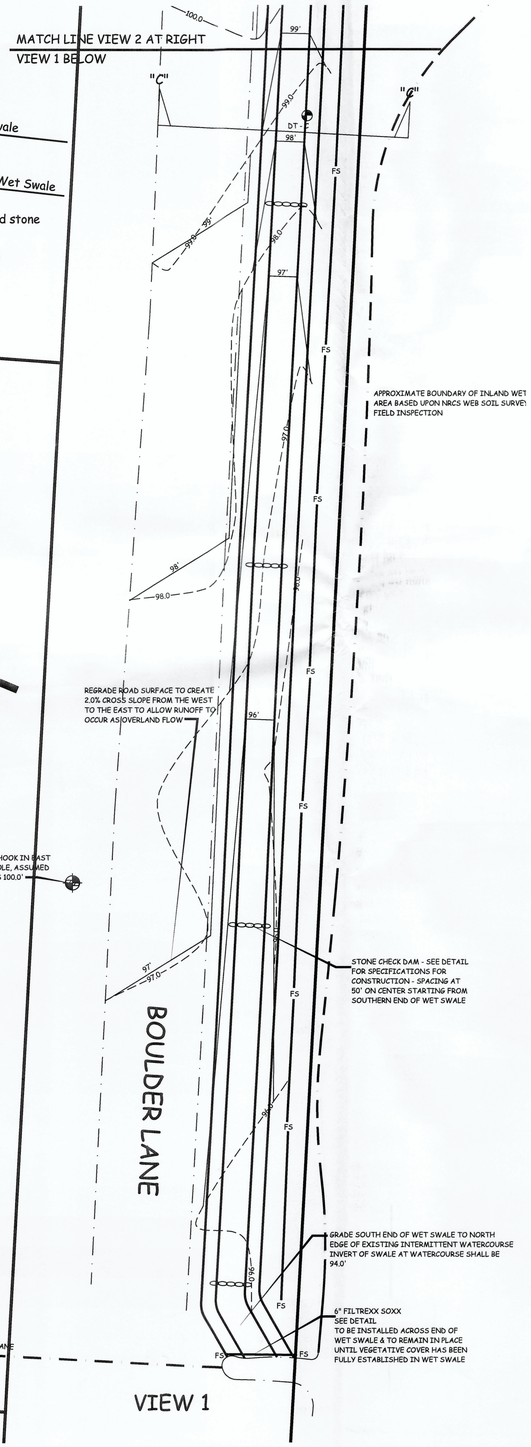
RESULTS OF SOIL TESTS BY TRINKAUS ENGINEERING, LLC
DATE: NOVEMBER 28, 2918
CLARK HILL ROAD (DT - A)
0 - 13" TOPSOIL
13 - 28" ORANGE BROWN FINE SAND AND SILT LOAM
28 - 72" ORANGE BROWN MEDIUM TO FINE SAND
LEDGE > 72", NO MOTTLING, NO WATER, ROOTS TO 40"
OLA AVENUE (DT - B)
0 - 21" TOPSOIL
21 - 48" ORANGE BROWN FINE SAND AND SILT LOAM
48 - 73" ORANGE BROWN SANDY LOAM WITH LARGE ROUNDED ROCKS
LEDGE > 73", NO MOTTLING, NO WATER, ROOTS TO 48"
BOULDER LANE (SOUTH) (DT - C)
0 - 18" TOPSOIL
18 - 47" ORANGE BROWN FINE SAND AND SILT LOAM
47 - 72" ORANGE BROWN COARSE SAND AND GRAVEL
LEDGE > 72", NO MOTTLING, WATER AT 47", ROOTS TO 47"
BOULDER LANE (NORTH) (DT - D)
0 - 16" TOPSOIL
16 - 48" ORANGE BROWN FINE SAND AND SILT LOAM
48 - 71" ORANGE BROWN COARSE SAND AND GRAVEL
LEDGE > 71", NO MOTTLING, WATER AT 48", ROOTS TO 42"
MOTT HILL ROAD (DT - E)
0 - 12" TOPSOIL
12 - 25" GREY BROWN COMPACT VERY SILTY SAND, SOME CLAY
25 - 65" BROWN MEDIUM COMPACT SILTY LOAM
LEDGE > 65", MOTTLING AT 30", NO WATER, ROOTS TO 25"
MOHICAN TRAIL (DT - F)
0 - 13" TOPSOIL
13 - 35" ORANGE BROWN FINE SANDY LOAM
35 - 60" GREY BROWN MEDIUM COMPACT SILTY SAND
60 - 73" GREY MEDIUM SAND
LEDGE > 73", NO MOTTLING, WATER AT 35", NO ROOTS

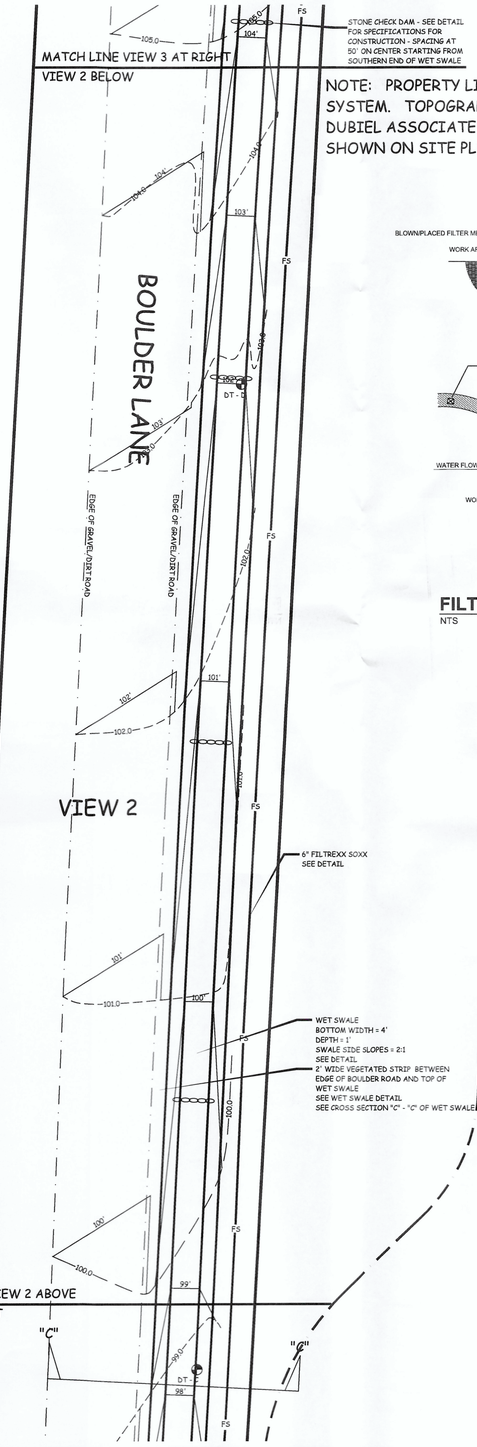
INFILTRATION TEST RESULTS
CLARK HILL ROAD
EQUIPMENT: TURF TECH INFILTROMETER
DEPTH OF TEST = 23"
TEST #1: 2"/15 MINUTES (8"/HOUR)
TEST #2: 1-3/4"/15 MINUTES (7"/HOUR)
TEST #3: 1-3/4"/15 MINUTES (7"/HOUR)
OLA LANE
DEPTH OF TEST = 18"
TEST #1: 1-5/8"/10 MINUTES (9.75"/HOUR)
TEST #2: 1-3/8"/10 MINUTES (8.25"/HOUR)
TEST #3: 1-1/2"/12 MINUTES (7.5"/HOUR)
TEST #4: 1-1/4"/10 MINUTES (7.5"/HOUR)
MOHICAN TRAIL
TEST #1: 7/8"/10 MINUTES (5.25"/HOUR)
TEST #2: 7/8"/10 MINUTES (5.25"/HOUR)
TEST #3: 3/4"/10 MINUTES (4.5"/HOUR)

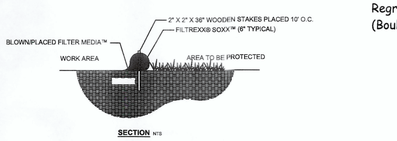


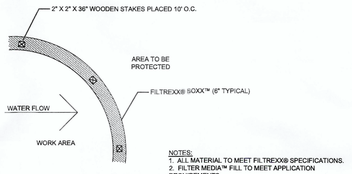
Stone Check dam - 1-1/4" washed crushed stone
Spacing of check dams per plan
Detail of Stone Check Dam
Not to Scale





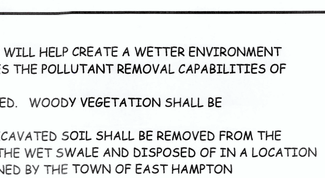


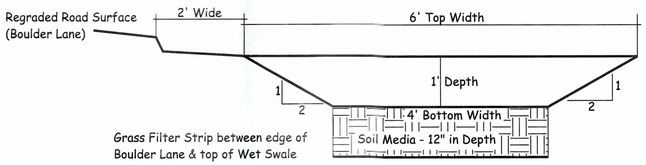




NOTES:
1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
2. FILTER MEDIA™ FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

FILTREXX® SEDIMENT CONTROL
NTS





Soil Media Specification for Wet Swale
High Organic Content with Silt and Clay comprising 60-70% by volume of Soil Media, balance of volume shall be fine sand or silt loam

CONSTRUCTION SEQUENCE FOR WET SWALE SYSTEM:

1. The limits of the wet swale shall be staked in the field by the contractor using the eastern edge of Boulder Lane.
2. The 6" Filtrexx Soxx shall be installed on the eastern side of the Wet Swale as shown on the site plan.
3. Contractor shall excavate for the Wet Swale in accordance with the elevations shown on the plan as well as the cross section shown above.
4. After the required subgrade has been achieved, the soil media for the Wet Swale shall be placed and a walk-behind vibratory tamper shall be used to compact the soil media to 75% Proctor Density.
5. The side slopes shall be graded at this time also. A hand tamper shall be used to lightly compact the side slopes.
6. As the contractor grades the west side slope of the Wet Swale, they shall also grade the area for the Grass Filter Strip in accordance with the detail shown above. It is very important to the functionality of the Grass Filter Strip as well as the Wet Swale that the elevation of the eastern edge of Boulder Lane be 1.5" to 2" above the finish elevation of the Grass Filter Strip. This step is necessary so that runoff from Boulder Lane "falls" off the edge of the road onto the Grass Filter Strip.
7. The Wet Swale shall be seeded with New England Wetmix (Wetland Seed Mix) by New England Wetland Plants (www.newp.com/data/2018/04/WETMIX2018.pdf) as shown on this plan. Both the bottom of the Wet Swale and its side slopes shall be seeded with this mixture. The Grass Filter Strip shall be seeded with New England Erosion Control/Restoration Mix for Detention Basins and Moist Sites (www.newp.com/data/2018/08/Moist-site-mix.8132018-no-percent.pdf) as specified on this plan. Both seed mixtures shall be installed in accordance with specifications provided by the seed provider.
8. The Wet Swale and Grass Filter Strip must have vegetation established prior to the regrading of the road surface of Boulder Lane. Regrading of Boulder Lane shall be done in accordance with the site plan to provide a cross slope from the western edge of Boulder Lane to the east side. After the regrading has been done, the graded surface shall be rolled using a 10 ton roller to compact the surface to 95% Proctor Density to ensure the required cross slope is provided. Hand tampering along the eastern edge of Boulder Lane may be necessary to prevent erosion of the road edge at the Grass Filter Strip.

NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES:

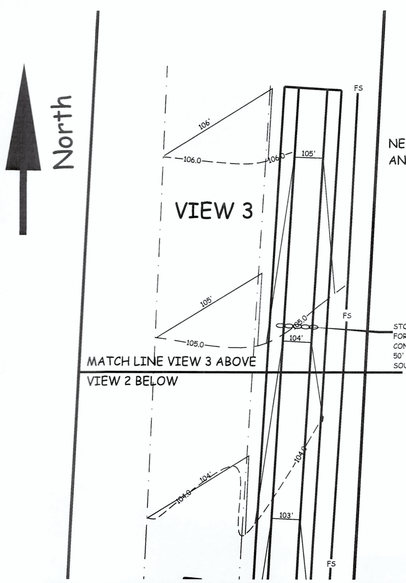
Riverbank Wild Rye	Beggar Ticks
Little Bluestem	Spotted Joe Pye Weed
Red Fescue	Boneset
Big Bluestem	New England Aster
Switch Grass	Wool Grass
New York Ironweed	Soft Rush
Upland Bentgrass	

1 pound per 1,250 square feet (APPLICATION RATE)

NEW ENGLAND WETMIX (WETLAND SEED MIX)

Fox Sedge	Fringed Sedge
Blunt Broom Sedge	New York Ironwood
Lurid Sedge	Soft Rush
Hop Sedge	Staved/Calico Aster
Fowl Bluegrass	Blue Flag
Beggar Ticks	American Mannagrass
Green Bulrush	Square Stemmed Monkey Flower
Swamp Milkweed	Spotted Joe Pye Weed

1 pound per 2,500 square feet (APPLICATION RATE)



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Email: strinkaus@earthlink.net

LOW IMPACT + SUSTAINABLE DEVELOPMENT
TRINKAUS ENGINEERING

LISD STORMWATER RETROFITS
SHEET 2 of 4
PROJECT #037-2018
SCALE: 1" = 10'
DATE: 5/14/19

PREPARED FOR
TOWN OF EAST HAMPTON
BOULDER LANE
EAST HAMPTON, CONNECTICUT