



Office Use Only

Project# 1W-21-026

Address: _____

MBL: 09A/70/23

Minimum Requirements for Submission of Application to Inland Wetlands and Watercourses Agency

This form must be submitted with your application

Please check all that are being submitted:

- Completed Application Form (3 Pages) -
- Fee Paid -
- Site Plan (Showing project location, extent of wetlands, dimensions, etc) - ~~10 Copies~~ -
- Project Narrative - ~~10 Copies~~ -
- ~~NA~~ Soils Report (As Required)
- ~~NA~~ Stormwater Report (As Required)
- ~~NA~~ State Reporting Form (Filled in to extent possible) -
- Completed Application Checklist (Page 3 of Application) -

- Schedule a Site Visit with Planning & Zoning Official at time of Application

Survey

Cross section drawing

I certify that this application is complete:

Signature of Applicant: _____

Date: _____

11/12/21

The Agency reserves the right to add additional requirements in accordance with the Regulations.

Only Complete Application Packages Will Be Accepted

Office Use Only		Date Approved _____	Permit Number _____
Fee Paid <u>CK# 3070 \$135⁰⁰</u>			
Public Hearing: YES NO	Agent Approval: YES NO		

**TOWN OF EAST HAMPTON
INLAND WETLANDS & WATERCOURSES AGENCY**

Date: 11/12/2021
 1. Name of Applicant* William Carter
 Phone Numbers: Home 18609181604, Business _____, Cell 18609181604
 Home Address: Street 23 BAY RD Town EAST Hampton State/Zip 06424
 Business Address: Street _____ Town _____ State/Zip _____

* All applications MUST list contact phone numbers. If the applicant is a Limited Liability Corporation or a Corporation, provide the managing member's or responsible corporate officer's name, address, and telephone number.

2. Name of Property Owner (if different from Applicant): _____ Phone _____
 Address: Street _____ Town _____ State/Zip _____

As the legal owner of the property listed on this application I hereby consent to the proposed activities. I hereby authorize the members and agents of the Agency to inspect the subject land, at reasonable times, during the pendency of the application and for the life of the permit.

Printed Name: William CARTER Signature: [Signature], Date: 11/12/21

3. Provide the applicant's interest in the land. _

4. Site Location and Description: Assessor's Map _____, Block _____, Lot _____
 Address: Street 23 BAY RD Town EAST Hampton State/Zip 06424

Note: It is the applicant's responsibility to provide the correct site address, map, block, and lot number for the legal notice. Provide a description of the land in sufficient detail to allow identification of the inland wetlands and watercourses, the area(s) (in acres or square feet) of wetlands or watercourses to be disturbed, soil type(s), and wetland vegetation.

Area of Wetland to be disturbed: _____ acres or sq. ft.
 Area of Watercourse to be disturbed _____ acres or sq. ft.
 Area of Upland Review Area to be disturbed: 15,000 sf acres or sq. ft. (Area within 100' of wetland)
TOTAL AREA OF DISTURBANCE 15,000 sf acres or sq. ft.

Will fill be needed on site? Yes No If yes, how much fill is needed? _____ cubic yards
 The property contains (circle one or more)
 WETLANDS, BROOK, RIVER, INTERMITTANT STREAM, VERNAL POOL, SWAMP, OTHER _____
 Description of soil types on site: _____
 Description of wetland vegetation: _____
 Name of Soil Scientist and date of survey: _____

5. Attach a written narrative of the purpose and description of the proposed activity and proposed erosion and sedimentation controls, best management practices, and mitigation measures which may be considered as a condition of issuing a permit for the proposed regulated activity including but not limited to; measures to:

(1) prevent or minimize pollution or other environmental damage, (2) maintain or enhance existing environmental quality, or (3) in the following order of priority: restore, enhance or create productive wetland or watercourse resources. Depending on the complexity of the project, include the following: sequence of operations, drainage computations with pre and post construction runoff quantities and runoff rates, plans clearly showing the drainage areas corresponding to the drainage computations, existing wetland inventory and functional assessment, soils report, construction plans signed by a certified soils scientist, licensed surveyor, and licensed professional engineer. Include a construction schedule, impacts to vegetation, and pictures that clearly show the existing conditions of all areas to be disturbed and/or cleared of vegetation.

6. Provide information of all alternatives considered. List all alternatives which would cause less or no environmental impact to wetlands or watercourses and state why the alternative as set forth in the application was chosen. All such alternatives shall be diagramed on a site plan or drawing.

Attach plans showing all alternatives considered.

7. Attach a site plan showing the proposed activity and existing and proposed conditions in relation to wetlands and watercourses and identifying any further activities associated with, or reasonably related to, the proposed regulated activity which are made inevitable by the proposed regulated activity and which may have an impact on wetlands or watercourses. Include a colored grading plan showing areas to be filled (green) and areas to be excavated (brown) that clearly shows existing and proposed contours and proposed limits of disturbance.

8. Attach the names and mailing addresses of adjacent landowners. Attach additional sheets if necessary.

Name	<u>Larry J. Visco</u>	Address	<u>27 Bay Road East Hampton</u>
Name	<u>George Tompaine</u>	Address	<u>25 Bay Rd EH</u>
Name	<u>Peter Arrestad</u>	Address	<u>21 Bay Rd EH</u>

9. Attach a completed DEEP reporting form.

The Agency shall revise or correct the information provided by the applicant and submit the form to the Commissioner of Environmental Protection in accordance with section 22a-39-14 of the Regulations of Connecticut State Agencies.

10. Attach the appropriate filing fee based on the fee schedule in Section 19 of the regulations.

Fee: \$135.00 (Make check payable to "The Town of East Hampton")

11. Name of Erosion Control Agent (Person Responsible for Compliance): William Carter
Phone Numbers: Home _____, Business owner
Cell (860) 418-1604 Address: Street 23 Bay Rd Town East Hampton
CT State/Zip 06424

12. Are you aware of any wetland violations (past or present) on this property? YES NO
If yes, explain _____

13. Are you aware of any vernal pools located on or adjacent (within 500') to the property? YES NO

14. For projects that do not fall under the ACOE Category 1 general permit – Have you contacted the Army Corps of Engineers? YES NO

15. . Is this project within a public water supply aquifer protection area or a public water supply watershed area? YES NO

If so, have you notified the Commissioner of the Connecticut Department of Public Health and the East Hampton WPCA? YES NO

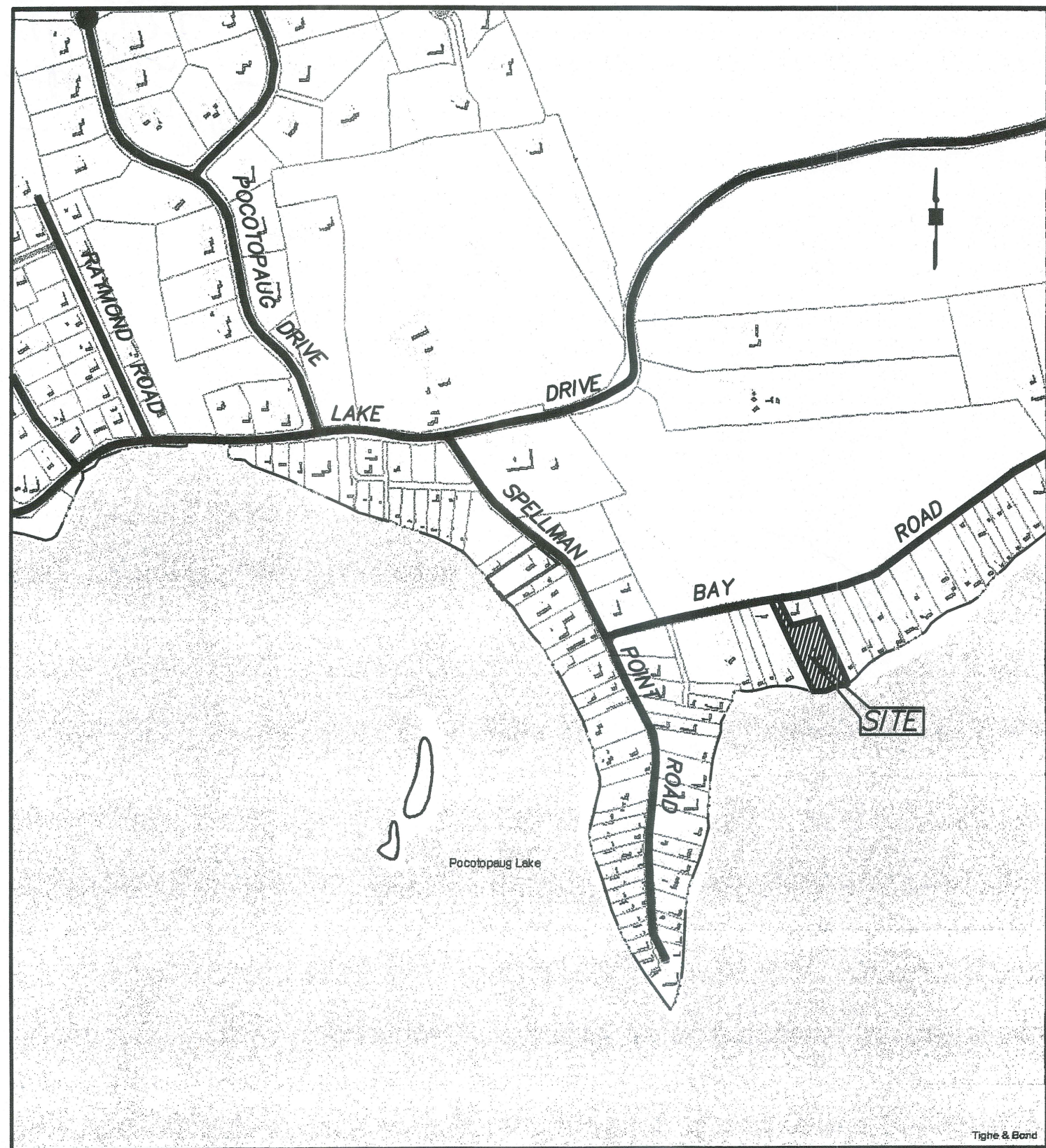
(Proof of notification must be submitted with your application.)

16. PUBLIC HEARINGS ONLY. The applicant must provide proof of mailing notices to the abutters prior to the hearing date.

17. **As the applicant I am familiar with all the information provided in the application and I am aware of the penalties for obtaining a permit through deception or through inaccurate or misleading information.**

Printed name: William Carter, Signature: _____, Date: 11/12/21

Please Note: You or a representative must attend the Inland Wetlands meeting to present your application.



SITE LOCATION MAP
SCALE: 1"=500'

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. REMOVE ALL LARGE STONES, TREE LIMBS, ROOTS, AND CONSTRUCTION DEBRIS.
 3. APPLY LIME ACCORDING TO SOIL TEST OR AT THE RATE OF TWO (2) TONS PER ACRE.

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. AN ORGANIC MATTER CONTENT BETWEEN 6 & 20 PERCENT IS HIGHLY DESIRABLE. AVOID LIGHT COLORED LOWER SUBSOIL MATERIAL.

APPLICATION:

1. AVOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.
2. SPREAD TOPSOIL UNIFORMLY TO A DEPTH OF AT LEAST FOUR (4") INCHES.

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 SEDIMENT FILTER 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 SHALL 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. FILTER FABRIC SHALL BE SECURELY FASTENED AT THE TOP OF A THREE (3) FOOT HIGH SECTION OF FILTER FABRIC SHALL OVERLAP A MINIMUM OF TWO (2) FEET.

INSTALLATION AND MAINTENANCE:

1. BALED HAY EROSION BARRIERS SHALL BE INSTALLED AT ALL STORM SEWER INLETS.
2. BALED HAY EROSION BARRIERS AND SEDIMENT FILTER FENCES SHALL BE INSTALLED AT THE LOCATIONS 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 NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.

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.

SITE PREPARATION:

1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
3. APPLY LIME ACCORDING TO SOIL TEST OR AT A RATE OF ONE (1) TON OF GROUND DOLOMITIC LIMESTONE PER ACRE (5 LBS. PER 1,000 SQUARE FEET).
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 SQUARE FEET).
5. UNLESS HYDROSEEDING, 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.

REFERENCE MADE TO MAPS TITLED:

"IMPROVEMENT LOCATION SURVEY PREPARED FOR DENNIS JENKS 23 BAY ROAD EAST HAMPTON, CONNECTICUT" BY RICHARD F. MIHOK PE CONSULTING ENGINEER MARLBOROUGH CONNECTICUT DATE: 9-24-15 SCALE: 1"=20' SHEET 1 OF 1

ESTABLISHMENT:

1. USE ANNUAL RYEGRASS AT A RATE OF 40 LBS./AC. OR SUITABLE EQUIVALENT AS SPECIFIED IN THE "GUIDELINES".
2. SEEDING TO BE DONE FROM APRIL 1ST TO JUNE 15 OR AUGUST 1ST TO OCTOBER 1ST. WINTER STABILIZATION PLANTINGS TO BE NO LATER THAN OCTOBER 1ST. THIS INCLUDES STOCKPILE AREAS.
3. APPLY SEED UNIFORMLY ACCORDING TO THE RATE INDICATED BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
4. UNLESS HYDROSEEDING, COVER RYEGRASS SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT. COVER SUDANGRASS AND SMALL GRAINS WITH 1/2 INCH SOIL.
5. MULCH IMMEDIATELY AFTER SEEDING, IF REQUIRED, ACCORDING TO THE GUIDELINES IN THE "GUIDELINES".

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:

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

-SPRING SEEDING:

WORK DEEPLY IN SOIL BEFORE SEEDING, 300 LBS OF 10-10-10 FERTILIZER PER ACRE (7 LBS PER 1,000 SQUARE FEET), THEN SIX (6) TO EIGHT (8) WEEKS LATER APPLY ON THE SURFACE AN ADDITIONAL 300 LBS OF 10-10-10 FERTILIZER PER ACRE.

-FALL SEEDING:

WORK DEEPLY IN SOIL BEFORE SEEDING, 600 LBS OF 10-10-10 FERTILIZER PER ACRE (14 LBS PER 1,000 SQUARE FEET).

ESTABLISHMENT:

1. SMOOTH AND FIRM SEEDBED WITH CULTIPACKER OR OTHER SIMILAR EQUIPMENT PRIOR TO SEEDING (EXCEPT WHEN HYDROSEEDING).
2. SELECT ADAPTED SEED MIXTURE AS FOLLOWS. NOTE RATES AND THE SEEDING DATES.

SUNNY TO PARTIALLY SUNNY SITES

KENTUCKY BLUEGRASS
CREeping RED FESCUE
PERENNIAL RYEGRASS

SHADY SITES

CREeping RED FESCUE
PERENNIAL RYEGRASS

DROUGHTY SITES

CREeping RED FESCUE

GENERAL NOTES

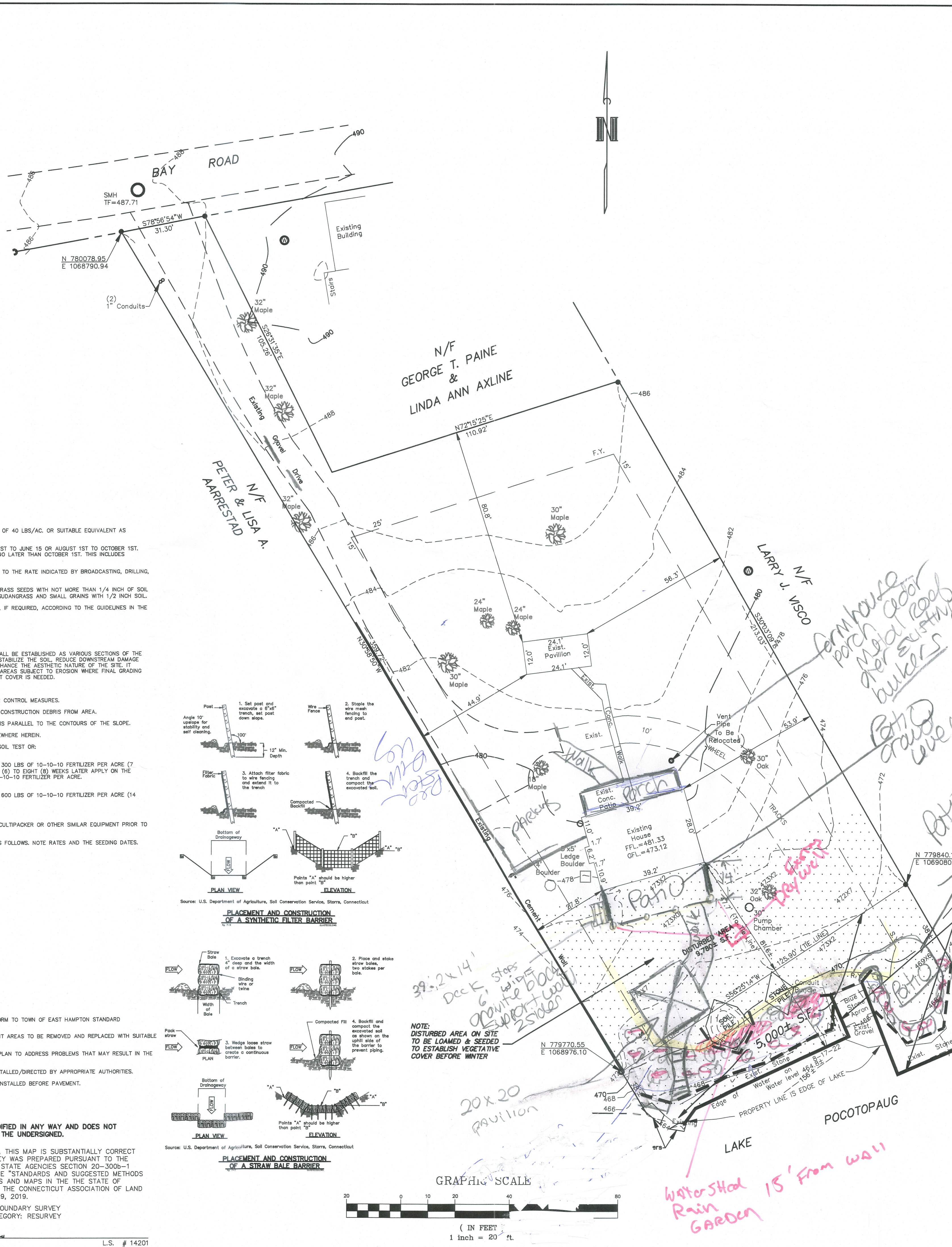
ALL CONSTRUCTION METHODS TO CONFORM TO TOWN OF EAST HAMPTON STANDARD SPECIFICATIONS.
ANY UNSUITABLE MATERIAL IN PAVEMENT AREAS TO BE REMOVED AND REPLACED WITH SUITABLE MATERIAL AS DIRECTED BY THE TOWN.
TOWN MAY REQUIRE CHANGES TO THE PLAN TO ADDRESS PROBLEMS THAT MAY RESULT IN THE FIELD.
ALL UNDERGROUND UTILITIES TO BE INSTALLED/DIRECTED BY APPROPRIATE AUTHORITIES.
ALL UNDERGROUND UTILITIES MUST BE INSTALLED BEFORE PAVEMENT.

THIS MAP IS NOT VALID IF MODIFIED IN ANY WAY AND DOES NOT BEAR THE EMBOSSED SEAL OF THE UNDERSIGNED.

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS SURVEY WAS PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTION 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS AND SUGGESTED METHODS AND PROCEDURES FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON AUGUST 29, 2019.

TYPE OF SURVEY: PROPERTY/BOUNDARY SURVEY
BOUNDARY DETERMINATION CATEGORY: RESURVEY
CLASS OF ACCURACY: A-2

André C. Aeschliman
SANDS E. AESCHLIMAN L.S. # 14201



PROJECT DESCRIPTION
This project generally consists of the renovation of one single family home and construction of new sea wall located at 23 Bay Road. Total lot area is 0.85 ac.

SITE DISTURBANCE
This site will have a disturbed area of approximately 9,780 s.f. for regrading of the lot and construction of new sea walls along Lake Pocotopaug.

SITE SPECIFIC EROSION AND SEDIMENTATION ISSUES
SPECIFIC SOIL EROSION AND SEDIMENTATION ISSUES RELATE TO THE:

1. CONSTRUCTION SCHEDULE
2. AREA OF DISTURBANCE
3. MAINTENANCE OF TEMPORARY EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION.
4. DUST CONTROL
5. QUICK STABILIZATION OF DISTURBED AREAS
6. MINIMIZE TOTAL DISTURBED AREAS WITH MULCH AND TEMPORARY VEGETATION

PROJECT PHASING
This project is proposed to occur in one phase.

SCHEDULING
The entire construction for the site is expected to take 12 months. One of the more critical issues relating to E&S control during site construction is with regard to timing. Primarily, that disturbed areas of the site be finish graded and stabilized. The remaining areas need to be stabilized with temporary seeding or mulched for the winter.

DESIGN CRITERIA, MAINTENANCE AND CONSTRUCTION SEQUENCING
DESIGN CRITERIA
The erosion controls are designed in conformance to the 2002 Erosion and Sediment Control Guidelines.

MAINTENANCE OF EROSION & SEDIMENTATION CONTROL MEASURES

1. Land disturbance will be kept to a minimum; re-stabilization will be scheduled as soon as practical.
2. Silt fence will be installed along the toe of all critical cut and fill slopes, soil stockpile areas, and in those areas shown on the plan.
3. Silt fence not installed parallel to the slope shall have five foot long wings installed every 100 feet to intercept and diffuse flows along the silt fence.
4. All erosion & sediment control measures will be constructed in accordance with the standards and specifications of the state of Connecticut guidelines for soil erosion and sediment control, 2002.
5. All temporary erosion & sedimentation control measures shall be properly maintained until stabilization has been achieved.
6. Additional control measures will be installed during the construction period if necessary or required. A minimum of 300 feet of silt fence shall be stored at the site for emergency use.
7. The owner shall inspect all erosion & sediment controls weekly, before an anticipated storm greater than 0.5 inches and following a significant storm event.
8. Debris and other wastes resulting from equipment maintenance and construction activities will not be discarded on site.
9. Sediment removed from control structures will be disposed of in a manner which is consistent with the intent of the plan.
10. Silt fences shall be cleaned when sediment levels reach 1/3 to 1/2 the height of the fence. Fences shall be properly installed and ripped fence and broken posts replaced as soon as practical. Hay bales shall be replaced every six weeks or sooner as conditions warrant.
11. Anti-tracking pads and gravel check dams shall be replaced when void spaces are full or structures are breached, as applicable.
12. Temporary erosion control measures shall be removed and the soil surface stabilized when construction is complete and the soil surfaces are permanently stabilized. Structural components shall be cleaned of all sediment upon completion of construction.
13. The Owner is assigned the responsibility for implementing this erosion & sediment control plan. This responsibility includes installation and maintenance of control measures, informing all parties engaged on the construction site of the requirements and objectives of the plan, notifying the Town of East Hampton Land Use Department of any transfer of this responsibility and for conveying a copy of the erosion & sediment plan, if and when the title of land is transferred.

**NOTE: BEARINGS & COORDINATES REFER TO NAD 83 DATUM
ELEVATIONS REFER TO NAVD 88 DATUM**

TOTAL AREA = 37,242 S.F. ±
= 0.85 AC. ±

AREA = 32,242 S.F. (TO TIE LINE)
= 0.740 AC. (TO TIE LINE)

AREA = 5,000 S.F. (FROM TIE LINE TO)
= 0.740 AC. (TO EDGE OF LAKE)

LEGEND

EXISTING IRON PIPE
EXISTING IRON PIN
PROPOSED STAKED HAY BALES/SILT FENCE

ZONE R-1 & LAKE POCOTOPAUG PROTECTION ZONE

LOT COVERAGE TABLE

EXISTING LOT COVERAGE: 37,242 S.F. ±

EXISTING LOT COVERAGE:

EXISTING HOUSE PATIO	= 1,664 S.F.
EXISTING PAVILLION	= 504 S.F.
EXISTING BUILDING COVERAGE	= 2,168 S.F.
EXISTING WALK COVERAGE	= 120 S.F.
TOTAL PERMISSIBLE COVERAGE	= 2,288 S.F. 6.1% (20% MAX ALLOWED)

OWNER:
AMY F. RIO & WILL CARTER
17 SCHOOL STREET
GLASTONBURY, CT. 06033

THIS MAP IS NOT VALID IF MODIFIED IN ANY WAY AND DOES NOT BEAR THE EMBOSSED SEAL OF THE UNDERSIGNED.

I HEREBY DECLARE TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS PLAN IS SUBSTANTIALLY CORRECT.
JONATHAN H. SZUREK P.E. # 26858

MEGSON, HEAGLE & FRIEND
CIVIL ENGINEERS & LAND SURVEYORS, LLC
81 BRANKIN ROAD
GLASTONBURY, CONN. 06033
PHONE (860)-659-0567

BOUNDARY, EXISTING CONDITIONS AND E&S PLAN
#23 BAY ROAD
PREPARED FOR
AMY RIO
EAST HAMPTON, CONN.

REV. 8-18-22 FINISHED WALLS AND E&S CONTROLS SHOWN
REV. 12-20-20-21 EXISTING WALLS SHOWN

CK. BY: JLH
DRW. BY: PEJ
DATE: 11-25-20
SCALE: 1"=20'
SHEET 1 OF 1
MAP NO.142-20-1BC

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Follow Up

New Contact

New Task

BOSS

Search by name, email or phone...

Amy Rio

- Getting Started
- Dashboard
- Follow Up Today 16518
- Unactioned
- Tasks
- Reporting
- All People
- Hot Prospects
- Leads
- Buyers
- Sellers
- Pending
- Closed
- Hot Sellers
- Homevestor
- IDX Activity
- Email Activity
- Recent Contact 30 Days
- FSBOs
- Kevins Client
- Fairfield Leads
- Nurture
- Expires

Note about 23 Bay Rd East Hampton Rep

Created on Nov 9, 2022 at 9:26am by Amy Rio

Edit | Delete

This note is about

 23 Bay Rd East Hampton Rep

New concrete and composite deck 14 deep and 39 feet wide across the entire rear of the home

with Lower level blue stone patio base of Process gravel and pea stone

All walkways have the same material and base

Parking area to be expanded to the side of the home to park cars

Retaining walls -- Granite block to match the existing beach stone wall

20x20 pavilion to sit on pieces made of concrete with blue stone patio base under it and base of same material herein

All gutters on the home to drain to onside drywall

no gutters on the pavilion

RECEIVED
 NOV 09 2022
 TIME _____

Help

23 Bay Rd

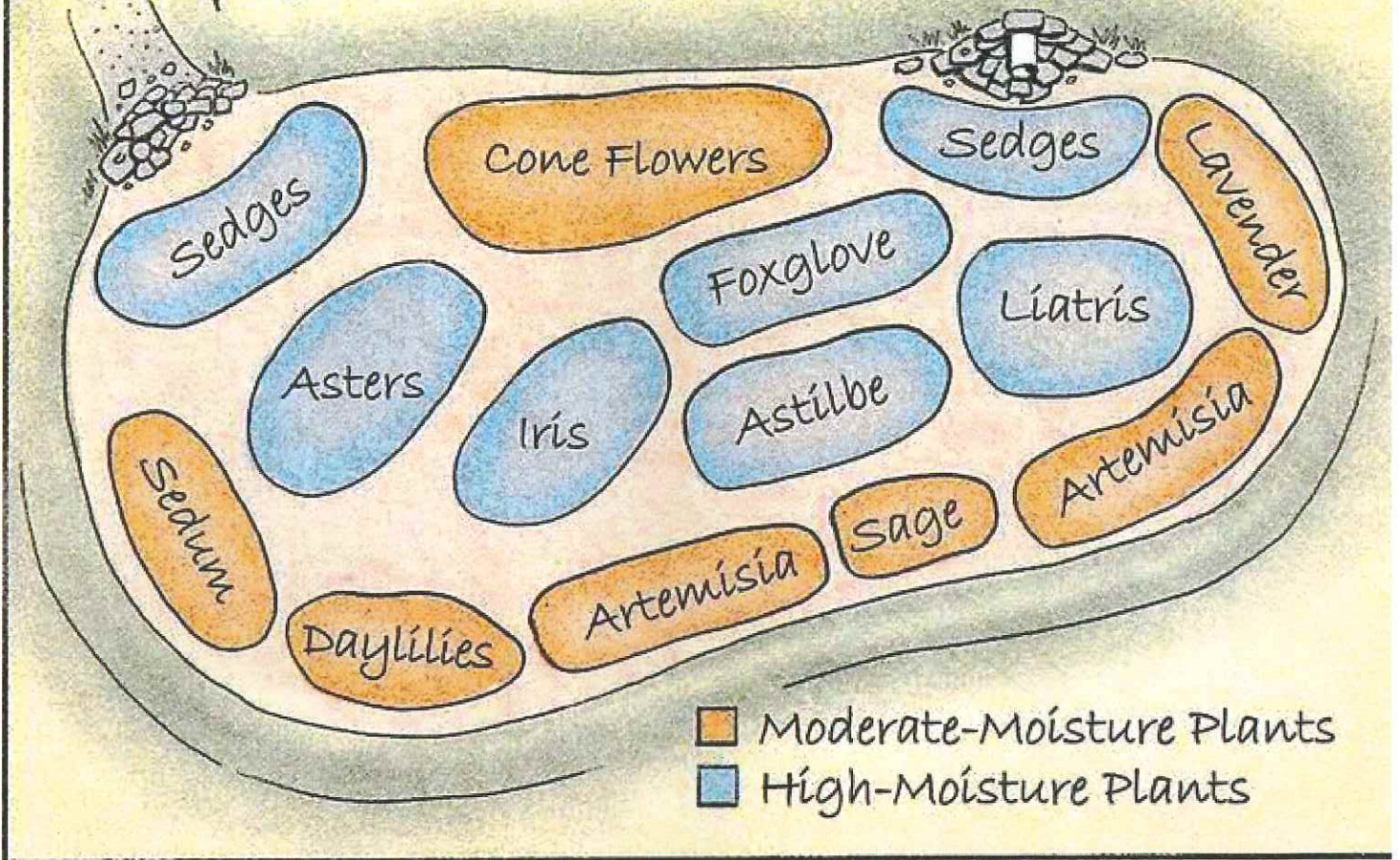
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Plan & wetlands

TIME



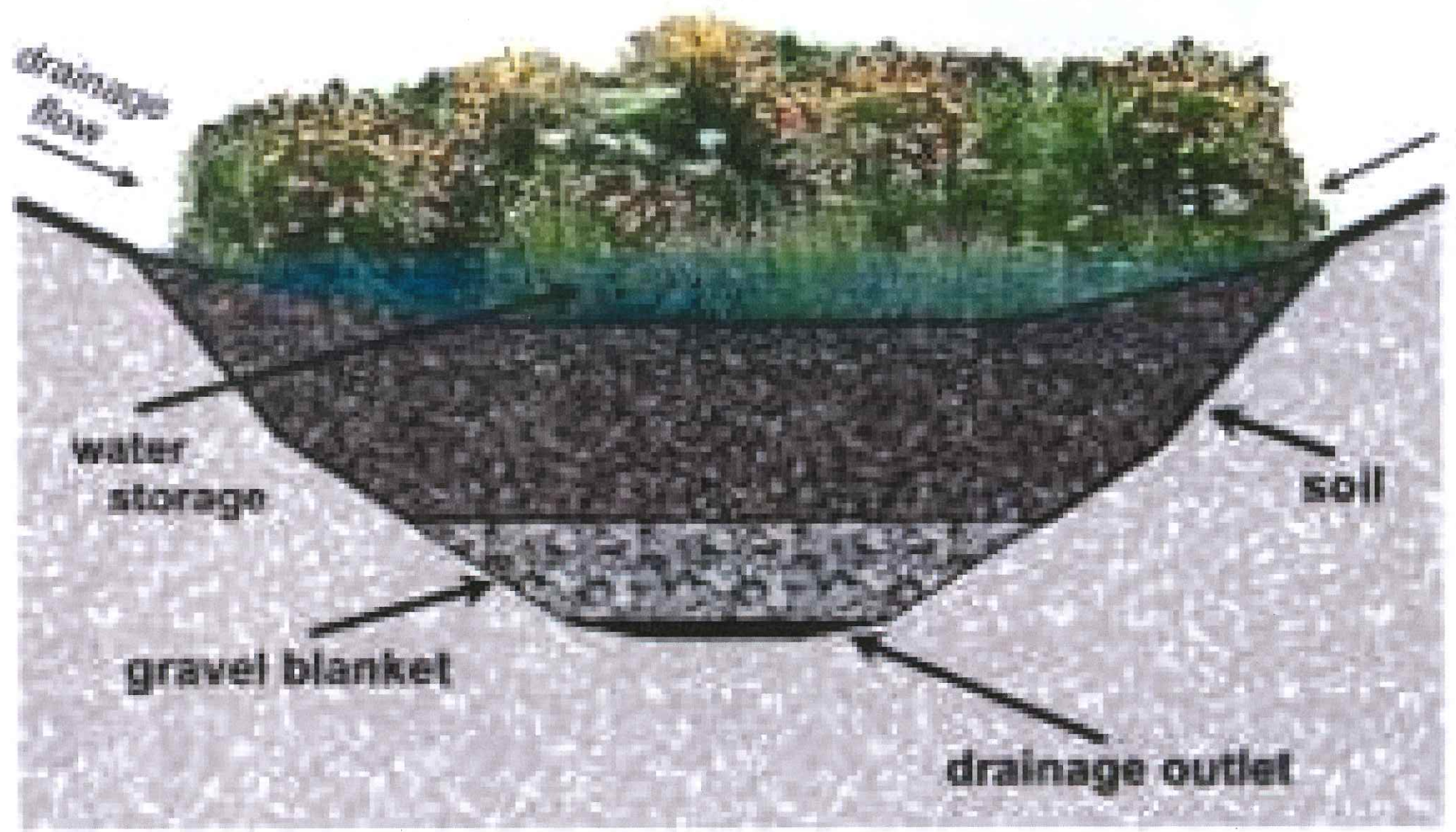
FIGURE C: Plant Selection



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Cross-section of typical rain garden

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NOV 09 2022
TIME _____













Native Plants for New England Rain Gardens

This plant list includes native plant species and cultivars that are adaptable, available, and have been widely successful in our northern New England region. It is a place to begin, but it is not intended to be a comprehensive list of all plants that may be used in rain gardens. Plant enthusiasts may want to consult other resources and try new plants on their own, but those who want a "Tried and True" list of plants to choose from may find all that they need right here. We use natives because rain gardens may border natural areas and we want to avoid introducing new non-native plants into the environment.

Developed by:

Cathy Neal, UNH Cooperative Extension
Lisa Loosigian, NHDES Soak Up the Rain NH
Jillian McCarthy, NHDES Soak Up the Rain NH

PLANT LIST KEY

-  Full Sun Exposure
 -  Partial Sun Exposure
 -  Shade
 -  Attracts bees
 -  Attracts butterflies
 -  Attracts birds
 -  Attracts hummingbirds
- Soil Moisture Preference:
-  Dry
 -  Medium
 -  Moist

RAIN GARDEN PLANTING ZONE

The plant list identifies the ideal rain garden planting zone for each plant (characterized by soil moisture).

BASE: Periodic or frequent standing water may keep the root zone wet for several days at a time. After the initial establishment period, Base Zone plants should also be tolerant of dry periods up to two weeks during the growing season.

SLOPE: Periodically wet or saturated soils during larger storms. Plants in the Slope Zone can help to protect against erosion once established. Shallow residential rain gardens may not have a definitive slope zone.

BERM: Drier soils, infrequently subject to inundation or saturation. This zone may be a raised berm or simply the perimeter of the rain garden. Plants should be quite drought tolerant and blend into the existing landscape of the site.

OTHER CONSIDERATIONS

Exposure - Plants are adapted to either full sun (≥ 6 hours of direct sunlight), partial sun (3-6 hours of direct sunlight), or full shade (≤ 3 hours of direct sunlight). Consider that some areas of the garden may be sunny and some made be shady and that the exposure may change throughout the seasons.

Soil Moisture - Clay soils tend to stay wet for longer periods than sandy, well-drained soils. There is also variation in soil moisture between the rain garden planting zones. Use the soil moisture preferences to choose plants that tolerate the conditions in your rain garden and to place them in the proper zone.

Plant Spacing - Mature size is given as a range because it varies greatly depending on cultivars and environment. The height and spread (width) of each plant is listed. Space plants to allow them to grow to their full size. Consider placing taller plants in the center or back of the garden with shorter plants layered under or in front of them. Ground covers work well on the berm.

Bloom Period & Color - Consider how different colored flowers will complement each other in the garden. Select plants with early, middle, and late season blooms to provide interest and support pollinators throughout the season.

USDA Hardiness Zone - The USDA Plant Hardiness Zone is the standard used to indicate which plants can survive the winter based on the average annual minimum winter temperature for a given location. New England hardiness zones range from 3 in the northern parts of the region to 7 in the southern and coastal areas.

This project was funded, in part, with Clean Water Act Section 319 funds from the US Environmental Protection Agency, and by National Oceanic and Atmospheric Administration's Office for Coastal Management under the Coastal Zone Management Act in conjunction with the NHDES Coastal Program and with assistance from the University of New Hampshire Cooperative Extension.



University of New Hampshire
Cooperative Extension

A-1

References:

- Go Botany. <https://gobotany.newenglandwild.org/>. 2016.
- Dirr, Michael A. (2011). *Dirr's Encyclopedia of Trees and Shrubs*. Portland, Oregon: Timber Press.
- Lady Bird Johnson Wildflower Center. <https://www.wildflower.org/>. 2016.
- North Creek Nursery. <http://www.northcreeknurseries.com/>. 2016.
- USDA Plants Database. <http://plants.usda.gov/java/>. 2016.

NOV 03 2022

TIME

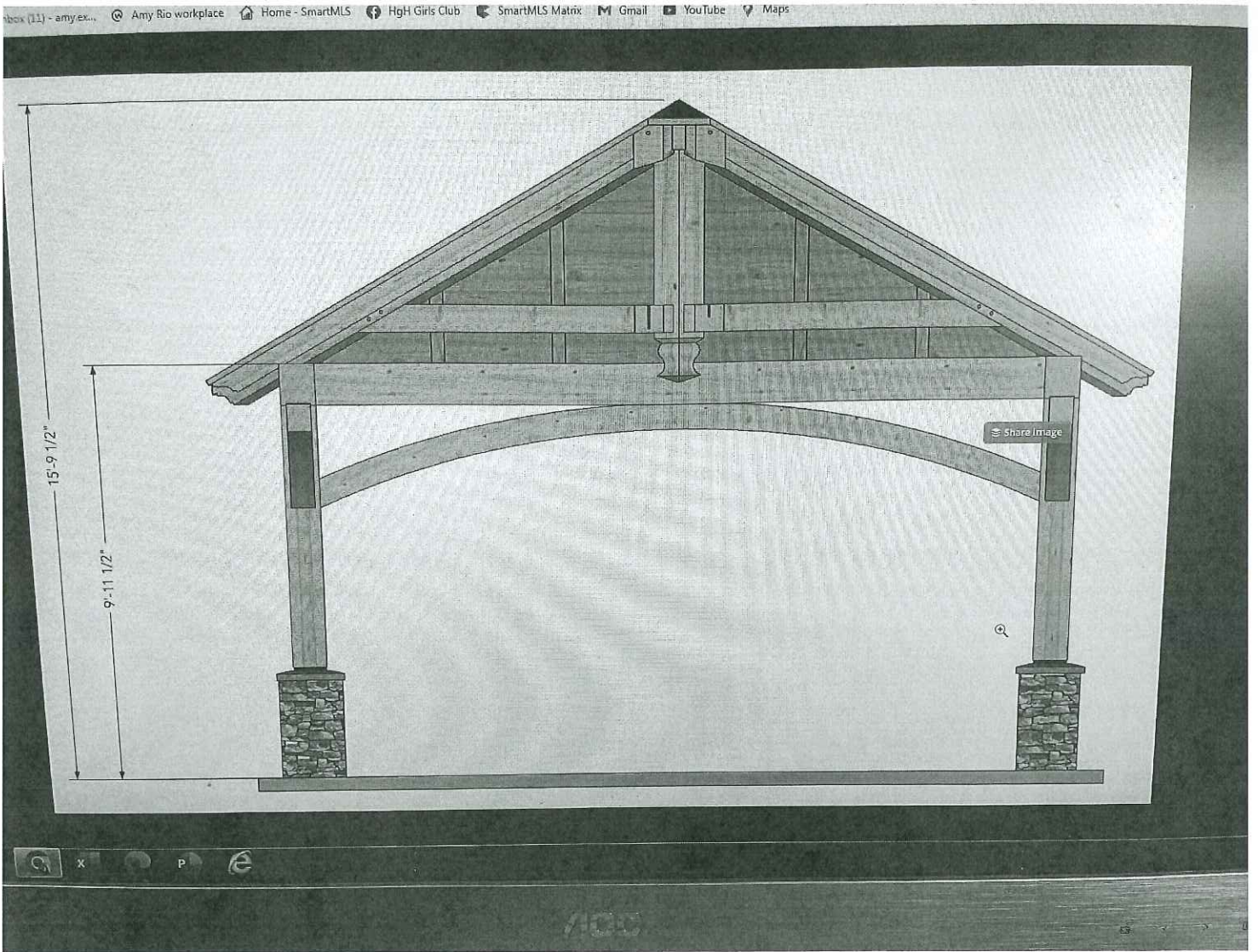
Structures / Custom Timber Frame / Timber Frame Pool Houses



20' x 22' Timber Frame Pool House, Winchester, NH

Similar to front porch look

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 NOV 09 2022
 TIME _____



20 x 20

RECEIVED
NOV 09 2022
TIME _____

