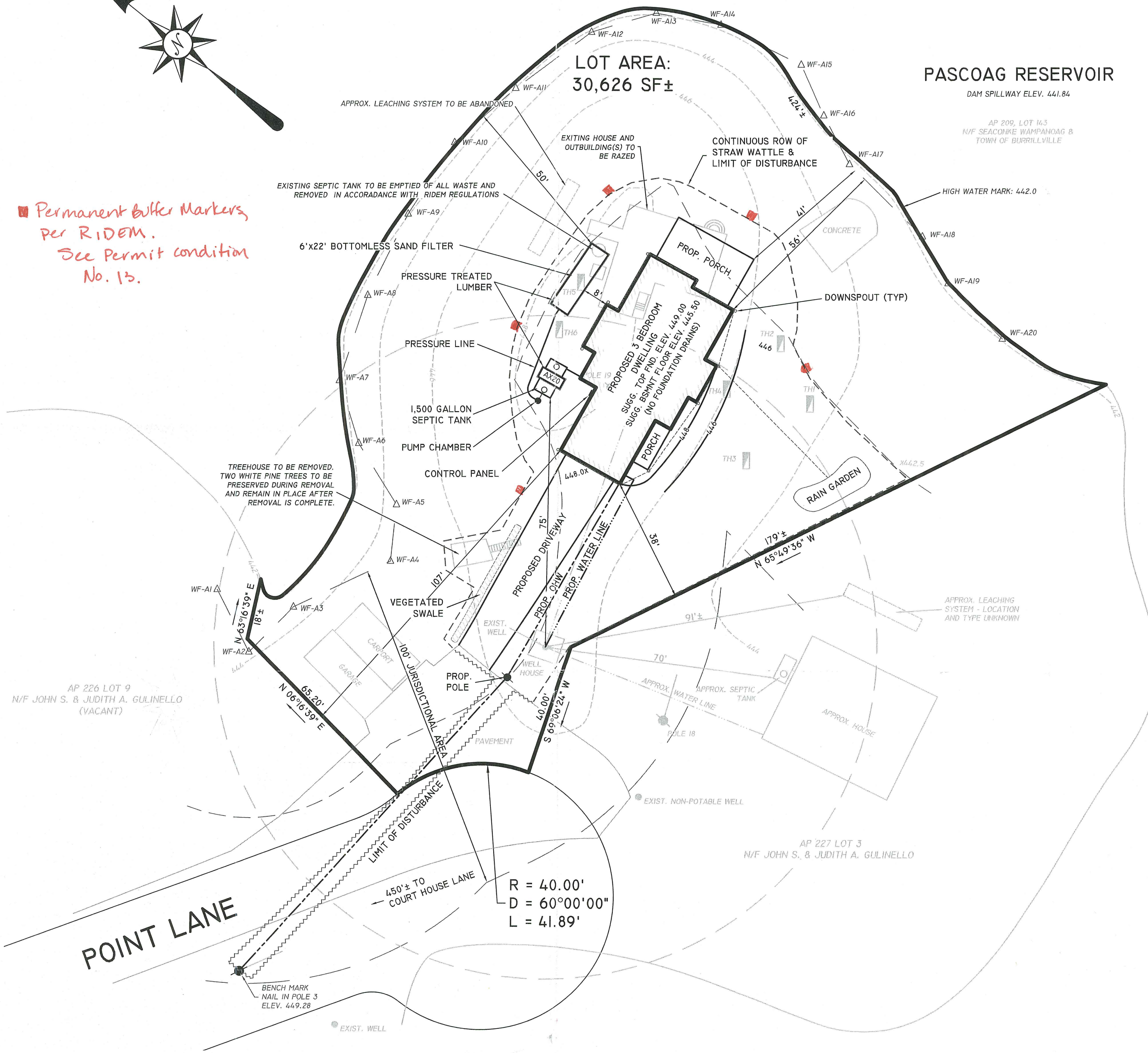


Permanent Buffer Markers  
per RIDEM.  
See Permit condition  
No. 15.



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: Nov. 13, 2024 FILE #: 24-0028  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

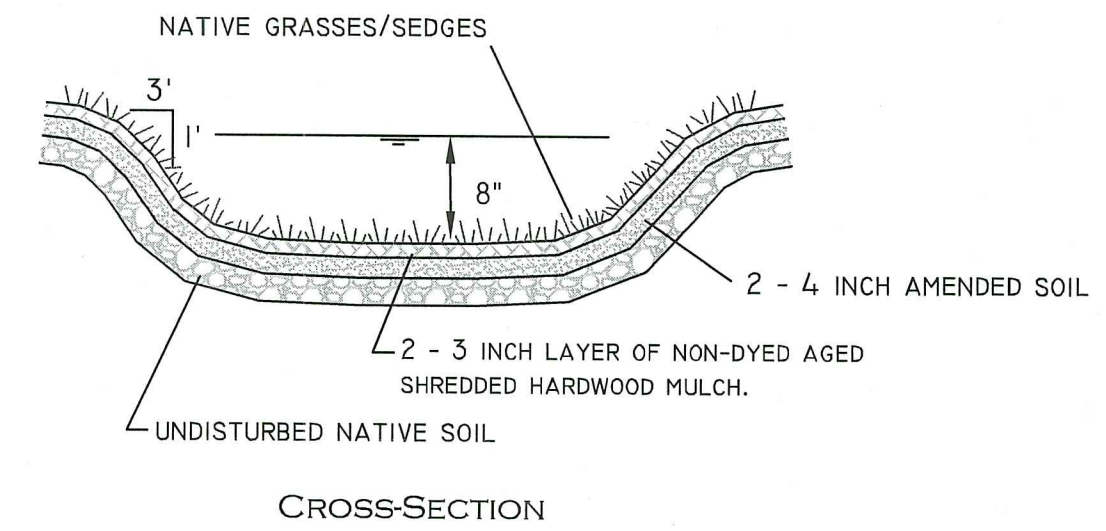
*Nancy L. Freeman*

NOTES AND SPECIFICATIONS:

1. WETLAND DELINEATION BY NATURAL RESOURCE SERVICES, INC. ON II-27-23.
2. A CONTINUOUS ROW OF STRAW WATTLE IS TO BE INSTALLED PRIOR TO START OF ANY CONSTRUCTION AND TO REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE AND AREA HAS STABILIZED. STRAW WATTLE TO BE INSPECTED PERIODICALLY OR AFTER SIGNIFICANT RAINFALL, AND REPAIRED OR REPLACED AS NECESSARY.
3. AREA OF DISTURBANCE WITHIN BUFFER ZONE: 2,727 SF.

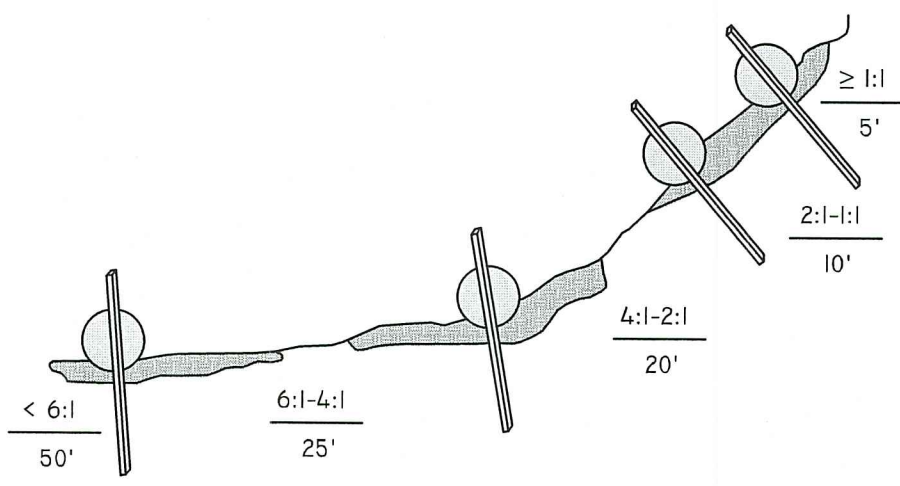
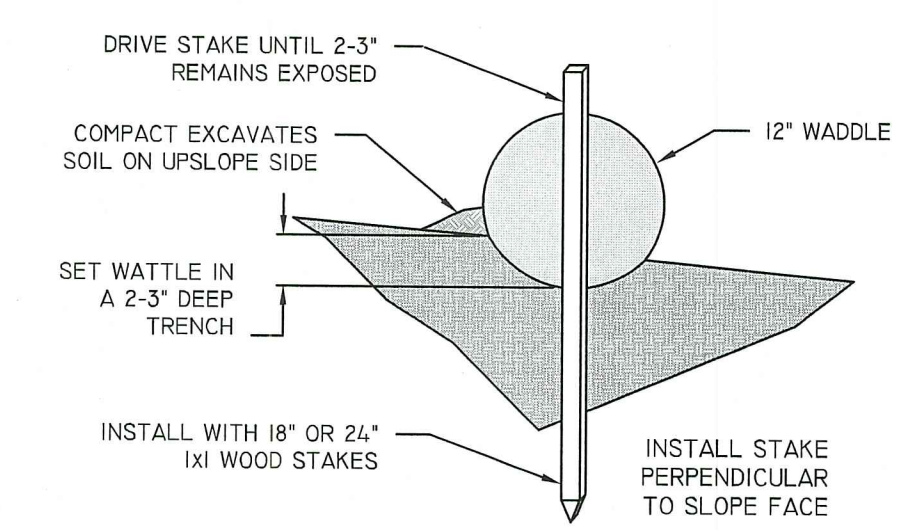
VEGETATIVE SWALE  
NOT TO SCALE

960 SF IMPERVIOUS DRIVEWAY  
SWALE AREA: 80 SF  
2' WIDE X 40' LONG



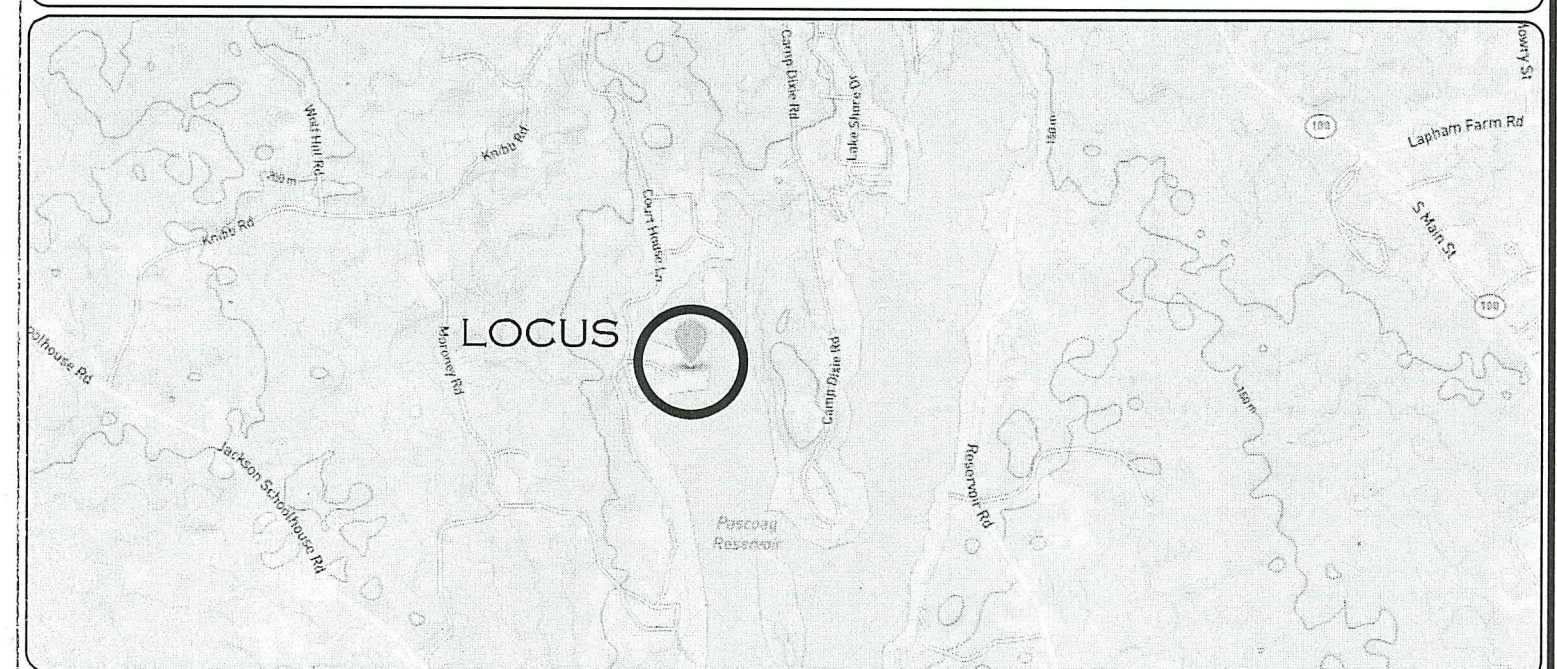
- MAINTENANCE:**
1. THE VEGETATED SWALE SHALL BE INSPECTED ANNUALLY AND AFTER LARGE STORM EVENTS.
  2. ERODED SIDE SLOPES AND CHANNEL BOTTOM SHALL BE STABILIZED AS NECESSARY.
  3. IF THE SURFACE OF THE DRY SWALE BECOMES CLOGGED TO THE POINT THAT STANDING WATER IS OBSERVED ON THE SURFACE 48 HOURS AFTER PRECIPITATION EVENTS, THE BOTTOM SHALL BE ROTO-TILLED OR CULTIVATED TO BREAK UP ANY HARD-PACKED SEDIMENT, AND THEN RESEDED.
  4. VEGETATION IN DRY SWALES SHALL BE MOWED AS REQUIRED TO MAINTAIN MINIMUM GRASS HEIGHTS IN THE 4-6 INCH RANGE.
  5. EVERY FIVE YEARS, THE CHANNEL BOTTOM OF DRY SWALES SHOULD BE SCRAPED TO REMOVE SEDIMENT AND TO RESTORE ORIGINAL CROSS SECTION AND INFILTRATION RATE, AND SHOULD BE SEEDED TO RESTORE GROUND COVER, WHERE NECESSARY.

STRAW WATTLE  
NOT TO SCALE



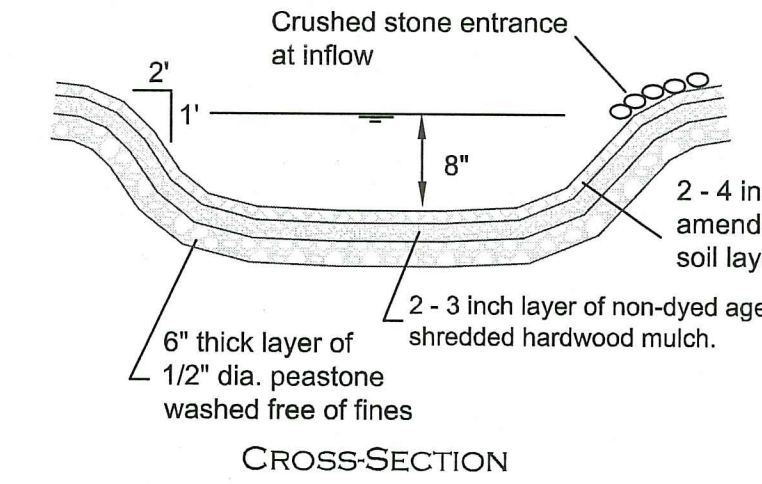
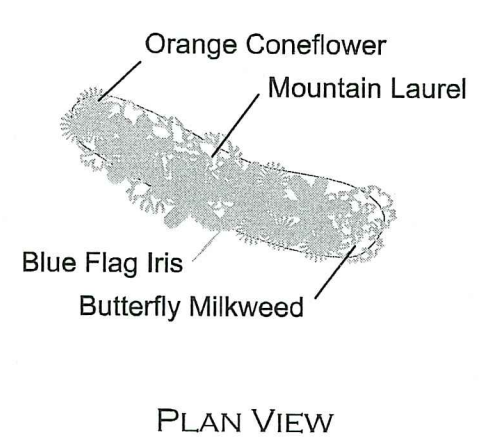
- EROSION & SEDIMENTATION CONTROL:**
1. BEGIN AT THE LOCATION WHERE WATTLE IS TO BE INSTALLED BY EXCAVATING 2-3" DEEP X 9" WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP SLOPE FROM THE ANCHOR TRENCH.
  2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
  3. SECURE THE WATTLE WITH 18-24" STAKES EVERY 3-4' AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2-3" OF STAKE EXTENDING ABOVE THE STAKES SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.
  4. CONTRACTOR IS RESPONSIBLE TO MAINTAIN INTEGRITY OF STRAW WATTLE FOR DURATION OF CONSTRUCTION.
  5. EROSION CONTROLS TO REMAIN UNTIL SOIL CONDITIONS STABILIZE.
  6. LOOSE HAY TO BE SPREAD ON AREAS OF EXPOSED LOAM & SEED UNTIL GERMINATION AND STABILIZATION OCCURS.

LOCATION MAP (NOT TO SCALE)



RAIN GARDEN  
NOT TO SCALE

ROOF AREA: 2,298 SF  
RAIN GARDEN AREA: 184 SF  
46 PLANTS



**TREATMENT:**  
RAIN GARDEN TO BE 8" DEEP WITH A 2 - 4 INCH AMENDED SOIL LAYER (50/50 MIXTURE OF THE EXCAVATED NATIVE SOILS AND MATURE ORGANIC COMPOST) AND A 2 - 3 INCH LAYER OF NON-DYED AGED SHREDDED HARDWOOD MULCH.

- CONSTRUCTION:**
1. A CRUSHED STONE ENTRANCE SHOULD BE INSTALLED AT THE INFLOW TO PREVENT CHANNELING.
  2. A BERM TO DETAIN STORMWATER SHOULD BE CONSTRUCTED ALONG THE DOWNHILL SIDE OF THE RAIN GARDEN, PERPENDICULAR TO THE SLOPE OF THE LAWN
  3. BE SURE THAT THE SOIL WITHIN THE RAIN GARDEN AREA DOES NOT BECOME COMPACTED BY CONSTRUCTION ACTIVITIES (I.E. HEAVY MACHINERY). IF SOIL BECOMES SEVERELY COMPACTED IT MAY NEED TO BE TILLED AND AMENDED TO MAINTAIN PROPER DRAINAGE.

- MAINTENANCE:**
2. SILT/SEDIMENT SHALL BE REMOVED FROM THE RAIN GARDEN WHEN THE ACCUMULATION EXCEEDS ONE INCH, OR WHEN WATER PONDS ON THE SURFACE OF THE RAIN GARDEN FOR MORE THAN 48 HOURS). THE TOP FEW INCHES OF MATERIAL SHALL BE REMOVED AND SHALL BE REPLACED WITH FRESH SOIL MIXTURE AND MULCH.
  3. PRUNING OR REPLACEMENT OF WOODY VEGETATION SHALL OCCUR WHEN DEAD OR DYING VEGETATION IS OBSERVED.
  4. SOIL EROSION GULLIES SHALL BE REPAIRED WHEN THEY OCCUR.
  5. FERTILIZER OR PESTICIDES SHALL NOT BE APPLIED TO PLANTS WITHIN RAIN GARDENS.
  6. PERENNIAL PLANTS AND GROUND COVERS SHALL BE REPLACED AS NECESSARY TO MAINTAIN AN ADEQUATE VEGETATED GROUND COVER. ANNUAL PLANTS MAY ALSO BE USED TO MAINTAIN GROUND COVER.

ZONING DISTRICT: R20  
MINIMUM SETBACKS: FRONT - 30'  
SIDE - 10'  
REAR - 30'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:  
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

LEGEND

- 600 --- 600 EXISTING CONTOUR
- 600 PROPOSED CONTOUR
- ▲ WETLAND FLAG
- ▲ WETLAND EDGE
- ▲ STRAW WATTLE
- LIMIT OF DISTURBANCE
- TH TEST HOLE

WETLANDS PLAN

PAUL D. CARLSON  
No. 7142  
REGISTERED PROFESSIONAL ENGINEER - CIVIL  
PROFESSIONAL SEAL

ASSESSOR'S PLAT 227 LOT 2  
48 POINT LANE  
BURLINGAME, RHODE ISLAND

PREPARED FOR: JAMES GULINELLO  
262 SAMUEL DRIVE, WHITINSVILLE, MA 01588

JOB # 21-048 SCALE: 1" = 20' DRAWN BY: LMB DATE: DECEMBER, 2023

REVISED: 10/11/24

**INSITE** Engineering Services, LLC  
PROFESSIONAL ENGINEERS | LAND SURVEYORS  
Precision. Clarity. Certainty.

501 Great Road, Unit 104  
North Smithfield, Rhode Island  
Phone: (401) 762-2870 Fax: (401) 762-2871  
Web Address: InsiteEngineers.com

SHEET  
1  
OF 1