

**LEGEND & ABBREVIATIONS**

NF	- NOW OR FORMERLY	---	- PROPERTY LINE
A.P.	- ASSESSORS PLAT	-TF-	- ZONING SETBACK LINE
S.F.	- SQUARE FEET	-E-	- EXISTING CONTOUR
AC.	- ACRES	-N-	- NEW CONTOUR
±	- PLUS OR MINUS	-S-	- STONE WALL
STY	- STORY	-X-	- FENCE
WF	- WOOD FRAMED	-S-	- SEWER LINE
SHP	- STATE HIGHWAY PLAT	-D-	- DRAIN LINE
RET.	- RETAINING WALL	-W-	- WATER LINE
PED.	- PEDESTRIAN	-G-	- GAS LINE
(FND.)	- FOUND	-E-	- ELECTRIC LINE
RI/H	- RI HIGHWAY BOUND	-SMH	- SANITARY SEWER MANHOLE
PK NAIL	- MASONRY NAIL	-CB	- CATCH BASIN
FE	- FLARED END	-SDM	- STORM DRAIN MANHOLE
RCP	- REINFORCED CONCRETE PIPE	-WG	- WATER GATE
CLF	- CHAIN LINK FENCE	-GV	- GAS VALVE
INV.	- INVERT	-EMH	- ELECTRIC MANHOLE
x 10.80	- EXISTING SPOT GRADE	-GB	- GRANITE BOUND
x 10.80	- NEW SPOT GRADE	-DH	- DRILL HOLE
		-O	- IRON PIPE

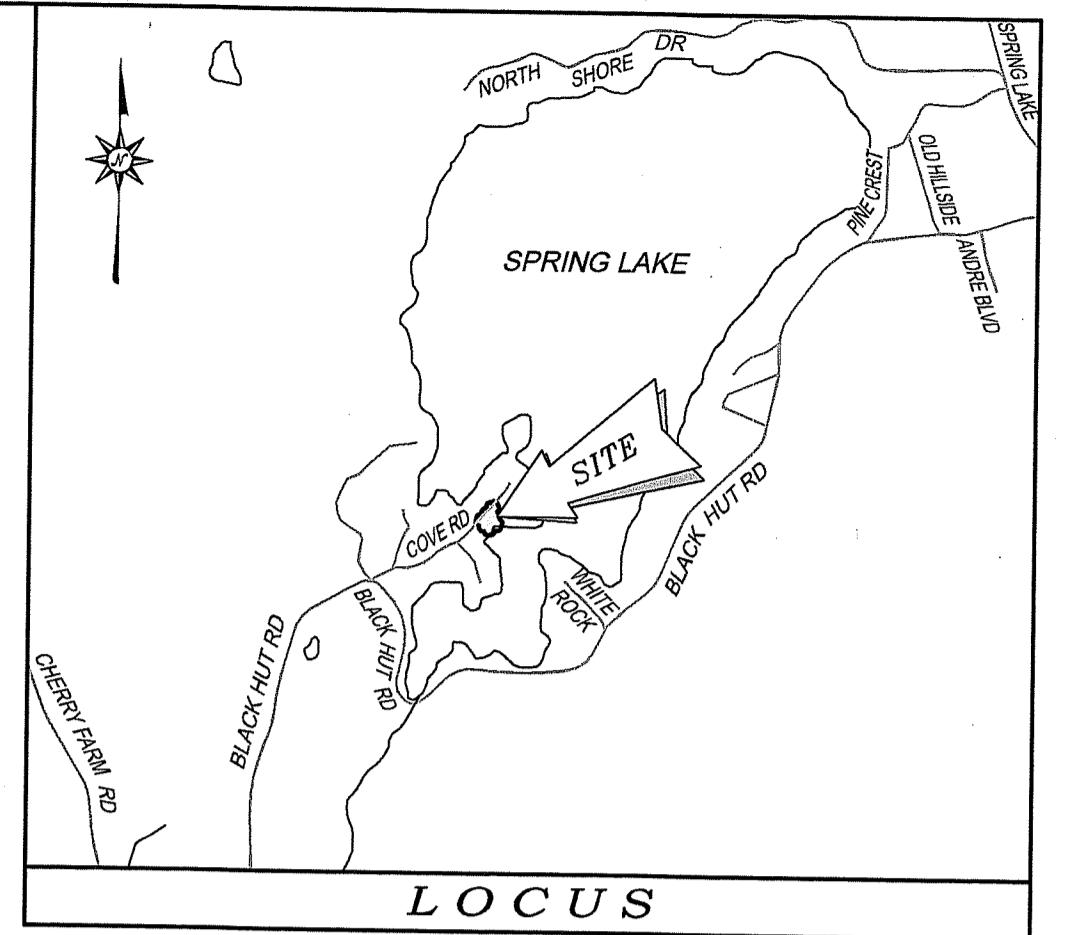
**CONTROL POINT**  
MAG-NAIL (SET)  
N=327168.27  
E=282343.42  
ELEV.=386.05 (NAVD 88)

**BENCHMARK**  
MAG-NAIL SET IN POLE  
ELEV. 397.26 (NAVD 88)

**CONTROL POINT**  
MAG-NAIL (SET)  
N=327078.35  
E=282324.03  
ELEV.=386.87 (NAVD 88)

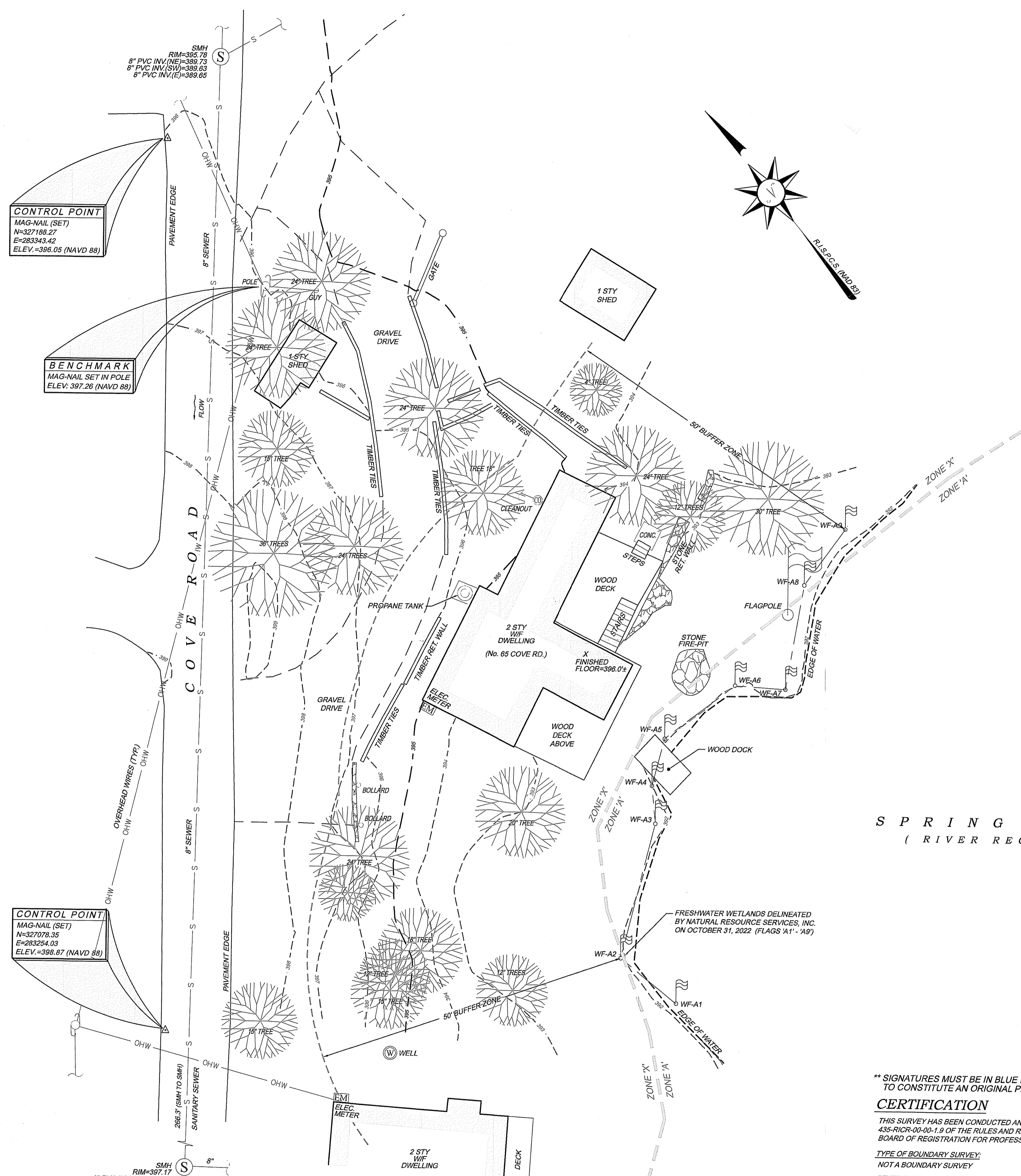
SMH  
RIM=387.17  
8" PVC INV.(NE)=388.59  
8" PVC INV.(SE)=388.44  
8" PVC INV.(SW)=388.53

SMH  
RIM=387.17  
8" PVC INV.(NE)=388.59  
8" PVC INV.(SE)=388.44  
8" PVC INV.(SW)=388.53



**NOTES / REFERENCES**

1. THESE PREMISES ARE PARTLY SITUATED IN A ZONE 'A' & ZONE 'X' (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN AS DESIGNATED ON THE NATIONAL FLOOD INSURANCE PROGRAM FIRM FLOOD INSURANCE RATE MAP PROVIDENCE COUNTY, RHODE ISLAND (ALL JURISDICTIONS) PANEL 135 OF 481 MANAGEMENT AGENCY).
2. ANY UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING PLANS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH OR ABANDONED. THE SURVEYOR DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM ALL AVAILABLE INFORMATION. (PLEASE CONTACT DIG SAFE 72 HOURS PRIOR TO CONSTRUCTION AT PHONE NO. 1-888-DIG-SAFE AND/OR ALL LOCAL UTILITY COMPANIES.)
3. THE HORIZONTAL DATUM FOR THIS PROJECT IS R.I.S.P.C.S. (NAD 83) AND THE VERTICAL DATUM FOR THIS PROJECT IS NAVD 88. THE PROJECT DATUMS WERE ESTABLISHED FROM REFERENCE STATIONS AND GNSS CORRECTIONS RECEIVED FROM THE LEICA SMARTNET NORTH AMERICA RTK NETWORK VIA CARLSON BRX8 GNSS ANTENNAS / RECEIVERS.
4. WETLAND FLAGS DELINEATED BY: NATURAL RESOURCE SERVICES, INC. P.O. BOX 311 - 180 TINKHAM LANE HARRISVILLE, RHODE ISLAND 02830  
\*WETLAND FLAGS FIELD LOCATED BY WATERMAN ENGINEERING COMPANY.
5. THE SUBJECT SITE IS LOCATED WITHIN RHODE ISLANDS NATURAL HERITAGE AREAS AS DEPICTED ON RHODE ISLANDS GEOGRAPHIC INFORMATION SYSTEMS ONLINE GIS MAPS.



SPRING LAKE  
( RIVER REGION 1 )

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: **MAR 20 2024** FILE #: **24-0001**  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Nancy L. Freeman*

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

RI Environmental Management  
JAN 17 2024  
Office of Water Resources

\*\* SIGNATURES MUST BE IN BLUE INK TO CONSTITUTE AN ORIGINAL PLAN

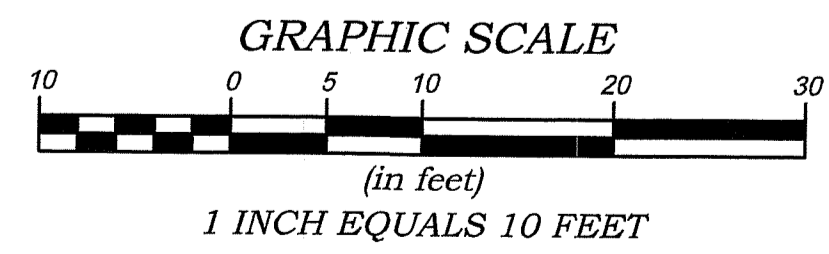
**CERTIFICATION**

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 43B-RICR-90-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON APRIL 26, 2016, AS FOLLOWS:

TYPE OF BOUNDARY SURVEY: NOT A BOUNDARY SURVEY  
MEASUREMENT/ACCURACY SPECIFICATION: N/A  
OTHER TYPE OF SURVEY: DATA ACCUMULATION TOPOGRAPHIC SURVEY  
THE PURPOSE FOR CONDUCTING THIS SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:  
PARTIAL EXISTING CONDITIONS PLAN & TOPOGRAPHIC SURVEY TO ASSIST WITH THE FUTURE DEVELOPMENT OF THE SUBJECT PROPERTY.

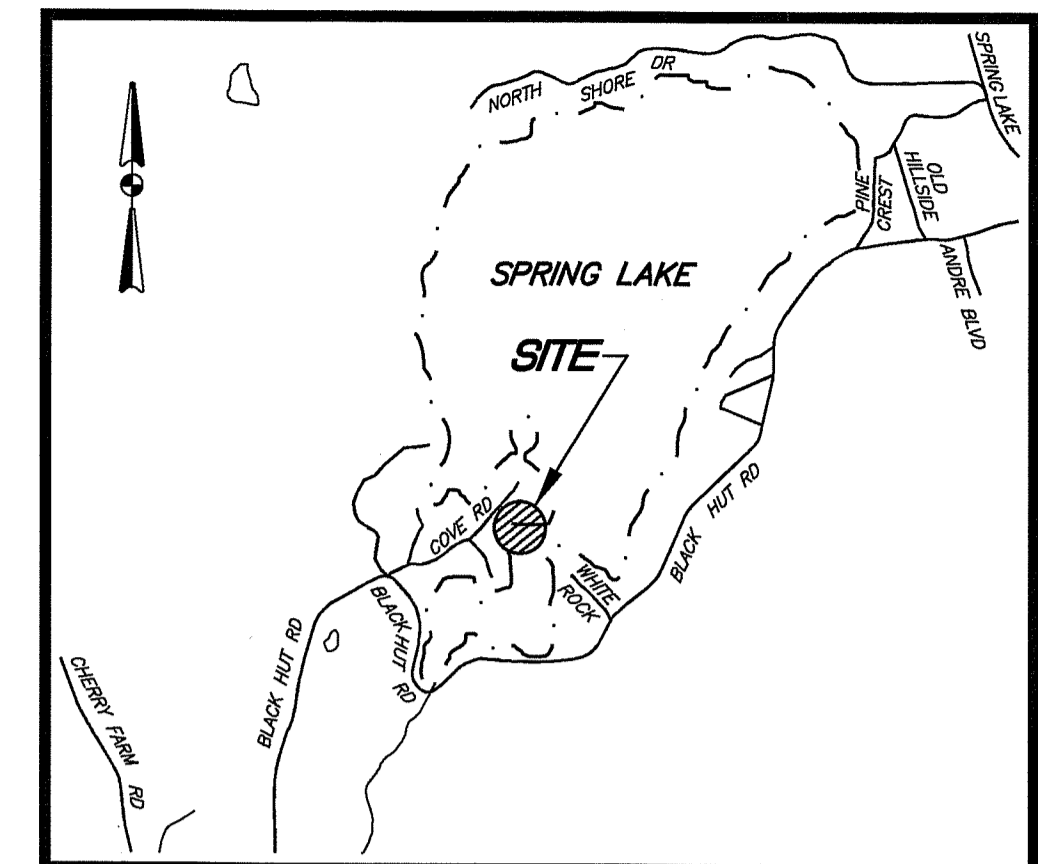
**BRADFORD J. TRAVERS**  
No. 2521  
PROFESSIONAL LAND SURVEYOR

BY: *Bradford J. Travers* 2521 11/22/2023  
BRADFORD J. TRAVERS, P.L.S. REG. NO. WATERMAN ENGINEERING COMPANY (COA NO. LS.0004483) DATE



COPYRIGHT  
THESE DRAWINGS ARE THE PROPERTY OF THE ENGINEER/SURVEYOR AND HAVE BEEN PREPARED FOR THE OWNER, FOR THIS PROJECT AT THIS SITE AND ARE NOT TO BE USED FOR ANY OTHER PURPOSE, LOCATION OR OWNER WITHOUT WRITTEN CONSENT OF THIS OWNER OR ONE OF ITS DIRECTORS.  
WATERMAN ENGINEERING CO.  
CITY ENGINEERS & SURVEYORS  
46 SUTTON AVENUE  
EAST PROVIDENCE, RI 02914-2096

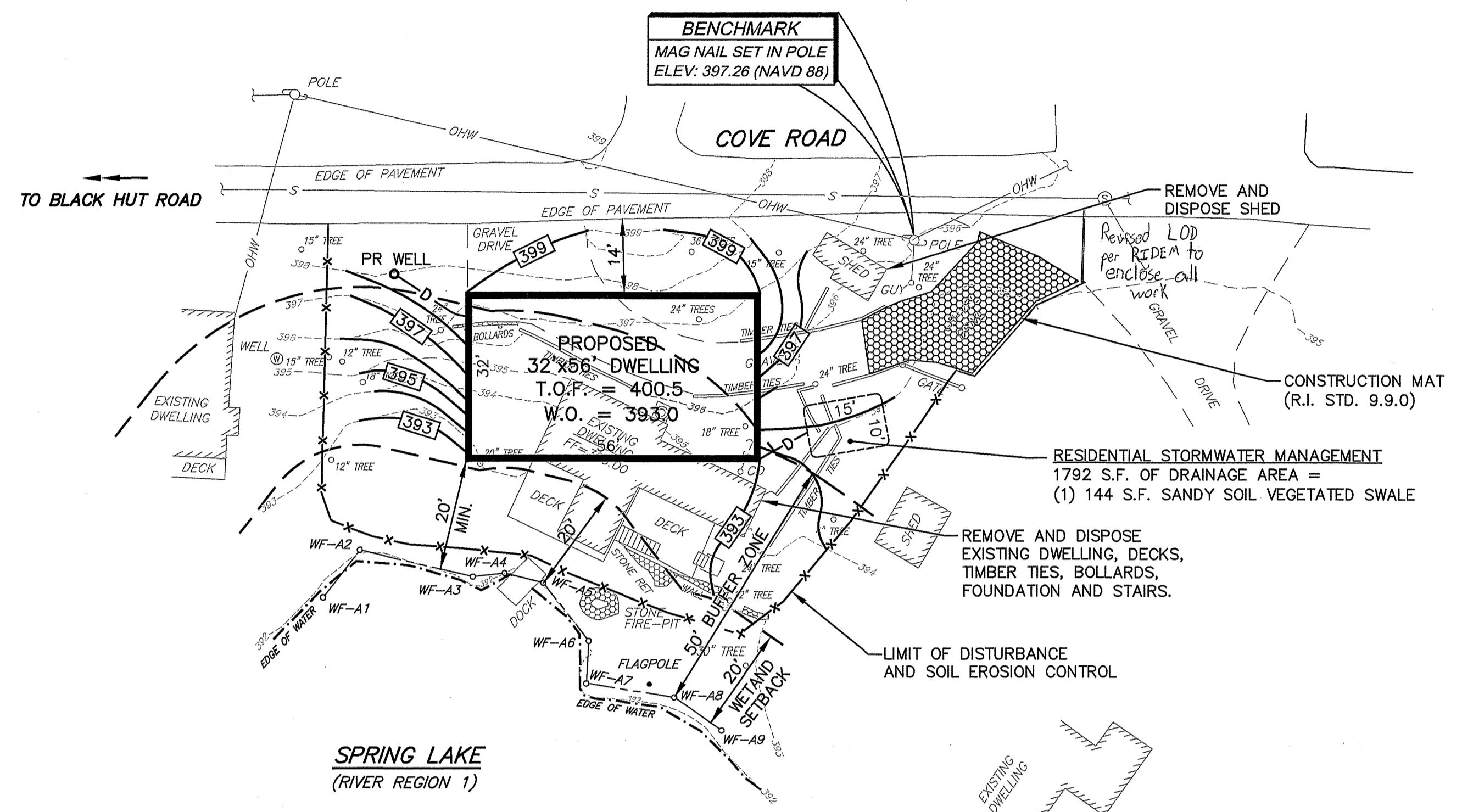
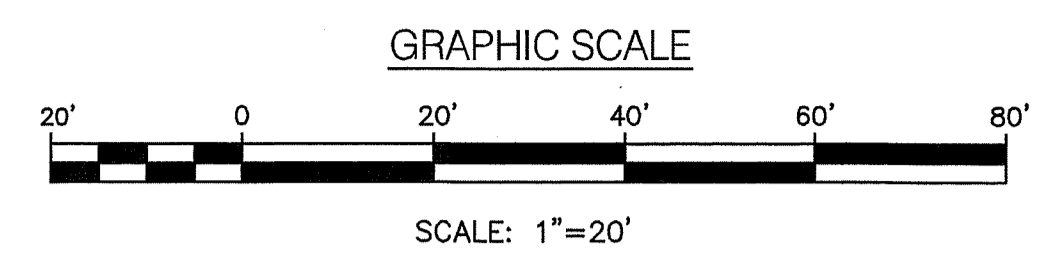
NO.	DATE	REVISION	CHECKED BY
EXISTING CONDITIONS PLAN PORTION OF ASSESSORS PLAT 110, LOT 3 65 COVE ROAD (UNIT 23) BURRILLVILLE, RHODE ISLAND			PROJECT NO. 23-057 SCALE: 1" = 10' DATE: 11/22/2023 DRAWN BY: BRP CHECKED BY: BJT FILENAME: 23-057_EX1 1 of 2 SHTS DRAWING # EX1
ROBERT DINGES 735 JABO DRIVE KILLEN, AL 35645			
<b>Waterman</b> ENGINEERING COMPANY Engineers & Surveyors - Est. 1894		46 Sutton Avenue East Providence, RI Phone: (401) 438-3775 Fax: (401) 438-3773 www.watermanengineering.net	



LOCATION MAP  
NOT TO SCALE

**LEGEND:**

<b>EXISTING</b>		<b>PROPOSED</b>
---399---	CONTOUR	---399---
	LIMIT OF DISTURBANCE AND SOIL EROSION CONTROL	-x-x-
○ Pole	UTILITY POLE	
—OHW—	OVERHEAD WIRE	
—S—	DRAIN LINE	—D—
	SEWER LINE	—W—
○ WELL	WELL	○ PR WELL
○ 15" TREE	TREE	



PROPOSED CONDITIONS PLAN  
SCALE: 1"=20'

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

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: MAR 27 2024 FILE # 24-0001

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Nancy L. Freeman*

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

**SOIL EROSION AND SEDIMENTATION CONTROL NOTES:**

THE HAYBALE AND SILT FENCE LINE ILLUSTRATED ON THESE PLANS SHALL SERVE AS THE STRICT LIMIT OF DISTURBANCE FOR THE PROJECT WITHIN OR ADJACENT TO REGULATED FRESHWATER WETLAND AREAS.

THE LIMITS OF CLEARING, GRADING, AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THESE LIMITS, AS DEPICTED ON THE PLAN SHALL BE TOTALLY UNDISTURBED, TO REMAIN IN NATURAL CONDITION.

ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDING, PROTECTED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL REGULARLY CHECK ALL SEEDING AREAS TO ENSURE THAT A GOOD STAND OF VEGETATION IS MAINTAINED.

ALL HAYBALES, TEMPORARY TREATMENT (HAY, STRAW, ETC.) AND TEMPORARY EROSION PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.

STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS OR WETLAND EDGES. THEY SHALL HAVE SIDE SLOPES OF NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDING AND/OR STABILIZED PER CONTRACT SPECIFICATIONS.

THE HAYBALES SHALL BE CHECKED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNDERMINING OR DETERIORATION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY HAYBALES AS NEEDED. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE BALES BECOMES FILLED WITH SEDIMENTS.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL SOIL EROSION AND SEDIMENT CONTROLS ON THE PROJECT SITE FOR THE ENTIRE DURATION OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL FOLLOW THE DIRECTION OF THE RESIDENT ENGINEER WITH REGARD TO INSTALLATION, MAINTENANCE, AND REPAIR OF ALL SOIL EROSION AND SEDIMENTATION CONTROLS ON THE PROJECT SITE. TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS (HAYBALES, SILT FENCE, ETC.) SHALL BE MAINTAINED UNTIL ALL EXPOSED SOILS ARE SATISFACTORILY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR RESEEDING ALL AREAS THAT DO NOT DEVELOP WITHIN ONE YEAR FROM THE COMPLETION OF CONSTRUCTION.

ALL REFERENCED SOIL EROSION AND SEDIMENTATION CONTROLS INCLUDING MATERIALS USED, APPLICATION RATES AND THE INSTALLATION PROCEDURES SHALL BE PERFORMED PER THE "RHODE ISLAND EROSION AND SEDIMENTATION HANDBOOK", DATED 1993.

**SITE PLAN NOTES:**

DETAILED ENGINEERING REVIEW FOR PROPOSED UTILITIES COVERED UNDER SEPERATE SUBMISSION, TO GOVERNING AGENCIES, THE DETAILED ENGINEERING PLANS FOR UTILITIES INSTALLATION AND CONNECTION HAVE NOT BEEN PROVIDED UNDER THIS SUBMISSION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION. ALL TEMPORARY AND VEHICULAR SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE LATEST REVISIONS OF MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.)

TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DIVDES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC.

THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS WILL NOT BE PARKED IN THE STATE RIGHT-OF-WAY.

ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS CHANNELING DEVICES, ETC. SHALL BE ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 1988 EDITION, INCLUDING REVISION 3, SEPTEMBER 3, 1993 AND SUBSEQUENT ADDENDA.

SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH THE R.I.D.O.T. SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.

ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE R.I. STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 202.

SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.

THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM TO RHODE ISLAND STANDARD SPECIFICATION M.20.

THE SEED MIX TO BE USED ON SLOPE APPROACHING WETLAND SHALL BE THE NEW ENGLAND CONSERVATION/WILDLIFE MIX FROM NEW ENGLAND WETLAND PLANTS, INC. OR APPROVED EQUAL APPLIED AT A RATE OF 25 LBS. PER ACRE AND MULCHED WITH STRAW.

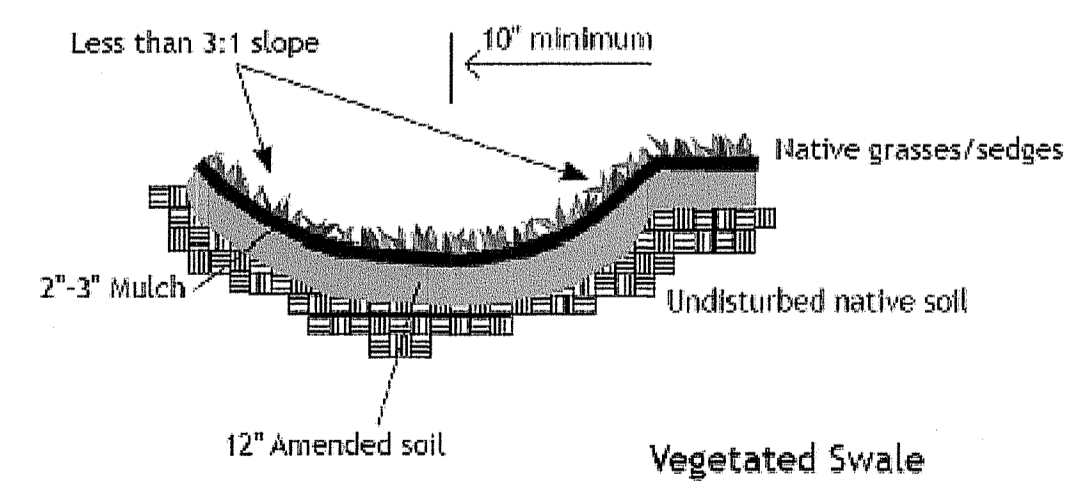
EARLY SPRING OR LATE SUMMER SEEDING IS RECOMMENDED. LIME AND FERTILIZE AS REQUIRED BY SOIL TESTING TO COMPLIMENT OR UPGRADE EXISTING CONDITIONS.

**BMP MAINTENANCE SCHEDULE**

ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING THE CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE:

INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES (INCLUDING ROADWAY SIDE SLOPES, FOR STRUCTURAL INTEGRITY/STABILITY AND EVIDENCE OF SOIL EROSION PROCESSES, AND MAINTENANCE OF THESE STRUCTURES IF NECESSARY. INSPECTIONS SHALL BE PERFORMED FOLLOWING ALL RAIN EVENTS OF 1/2 INCH RAINFALL OR MORE IN A 24 HOUR PERIOD, OR BI-MONTHLY IF NO RAINFALL EVENT OCCURS.

REPLANTING, REGRADING, OR OTHER REPAIRS NEEDED AS A RESULT OF SOIL EROSION AND SEDIMENTATION PROCESSES SHALL BE DONE PROMPTLY.



VEGETATED SWALE, TYPICAL CROSS-SECTION

**VEGETATED SWALE SIZING GUIDE**

Drainage Area (in square feet)	Bottom surface Area (in square feet) for an 8 in. deep swale	
	Sandy Soils*	Silty Soils*
200	16	32
400	32	64
600	48	96
800	64	128
1000	80	160

VEGETATED SWALE SIZING GUIDE

**WETLANDS APPLICATION**  
FOR  
HARRISVILLE SPRING LAKE CAMPERS INC.  
ASSESSOR'S PLAT 110, PORTION OF LOT 3  
65 COVE ROAD  
BURRILLVILLE, RHODE ISLAND

**OWNER:**  
ROBERT DINGES  
65 COVE ROAD  
BURRILLVILLE, RI 02830  
(256) 740-2010

SCALE: 1"=20'    DATE: JANUARY, 2024    SHEET 2 OF 2

NO.	DATE	REVISION