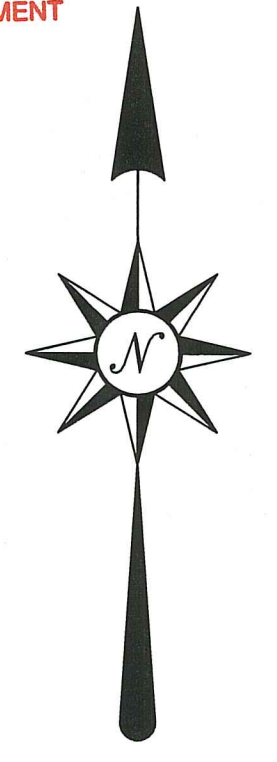


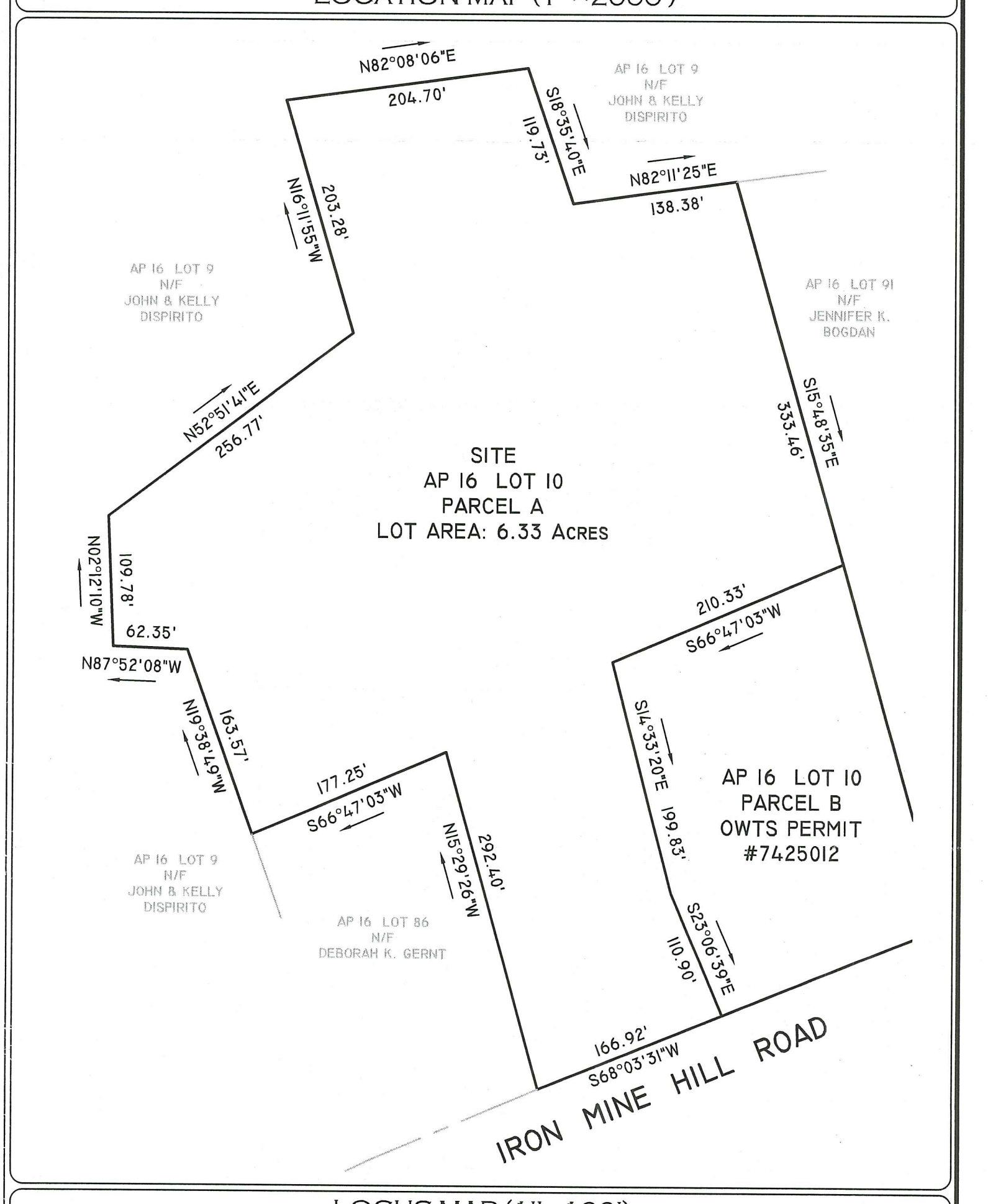
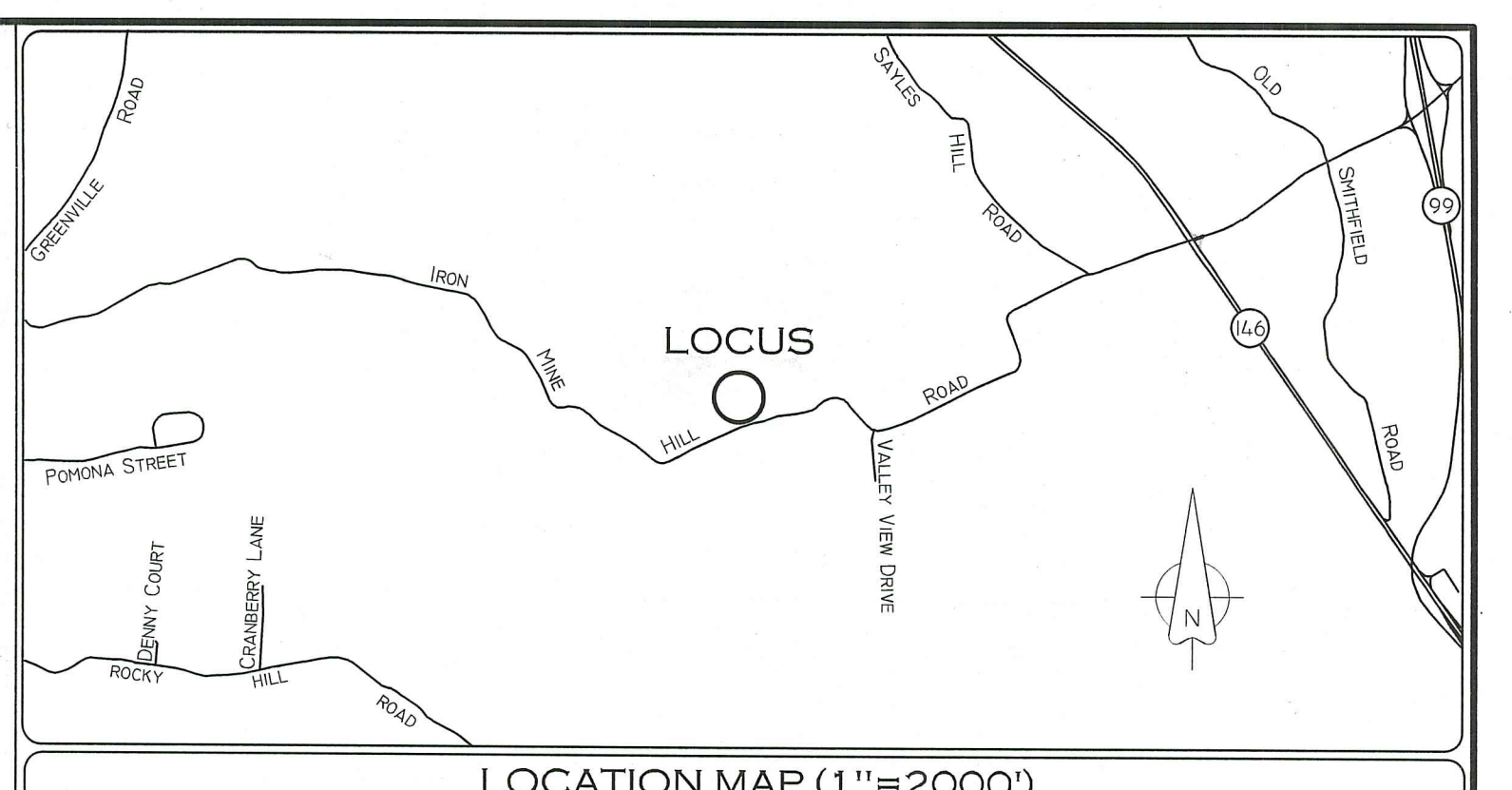
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: NOV 25 2024 FILE #: 24-002
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Andy Clayton



NOTES AND SPECIFICATIONS:

1. WETLAND DELINEATION BY NATURAL RESOURCE SERVICES, INC. ON 10-20-21.
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: 1,190 SF.
4. TOTAL AREA OF WORK: 27,725 SF

GRAPHIC SCALE
(IN FEET)
1 INCH = 50 FT.

WETLANDS PLAN

ASSESSOR'S PLAT 16 LOT 10 PARCEL A
IRON MINE HILL ROAD
NORTH SMITHFIELD, RHODE ISLAND

PREPARED FOR: TITLE INVESTMENTS RIGP
140 RESERVOIR AVENUE, PROVIDENCE, RI 02907

JOB # 22-062A SCALE: 1" = 30' DRAWN BY: LMB DATE: 7-24-24
REVISED: 10-24-24

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

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

1539 Fall River Avenue, Seekonk, MA 02771
Phone: (508) 336-4500 Fax: (508) 336-4558

501 Great Road, Unit 104
North Smithfield, RI 02896
Phone: (401) 762-2870 Fax: (401) 762-2871
Web Address: InSiteEngineers.com

SHEET 1 OF 2

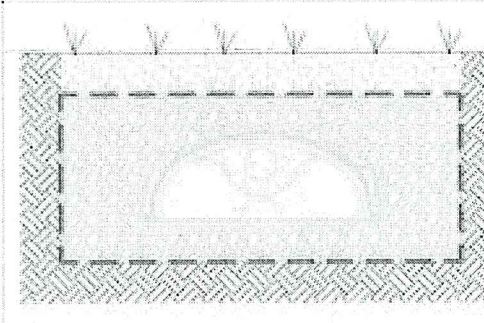
ZONING DISTRICT: RA
MINIMUM SETBACKS: FRONT - 40'
REAR - 40'
SIDE - 25'

The Approved Limit of Disturbance is Commensurate with the Depicted Straw Wattle per RI DEM.

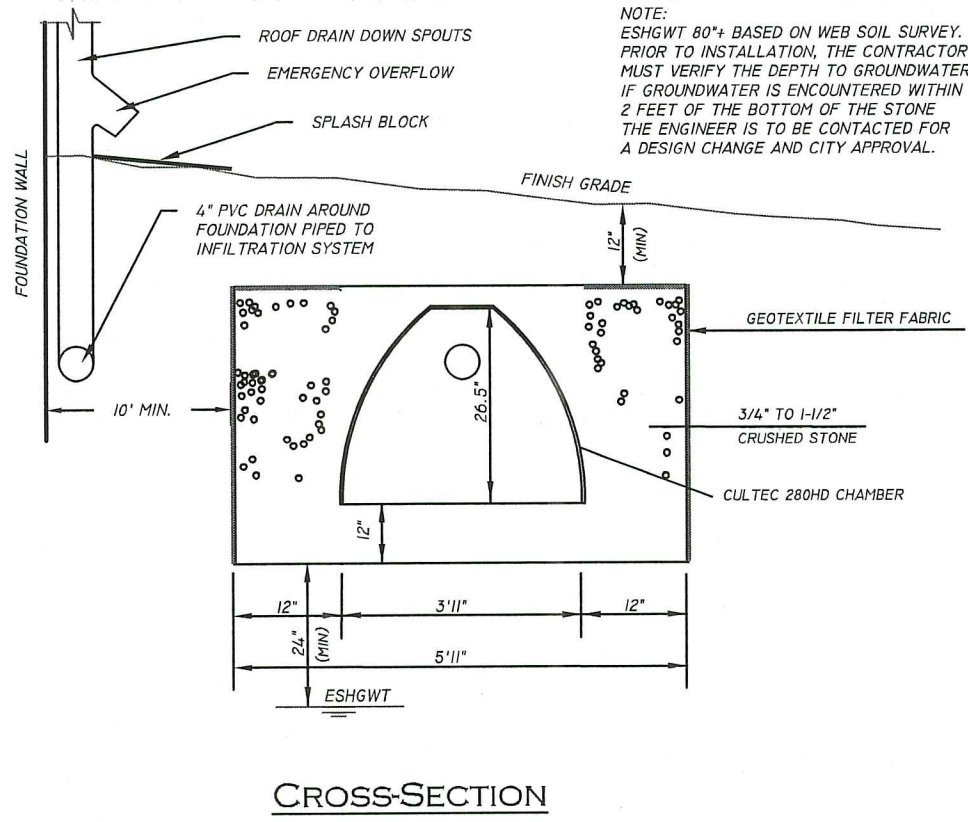
INFILTRATOR DETAIL FOR ROOF RUNOFF
NOT TO SCALE

CULTEC Drywell Calculator

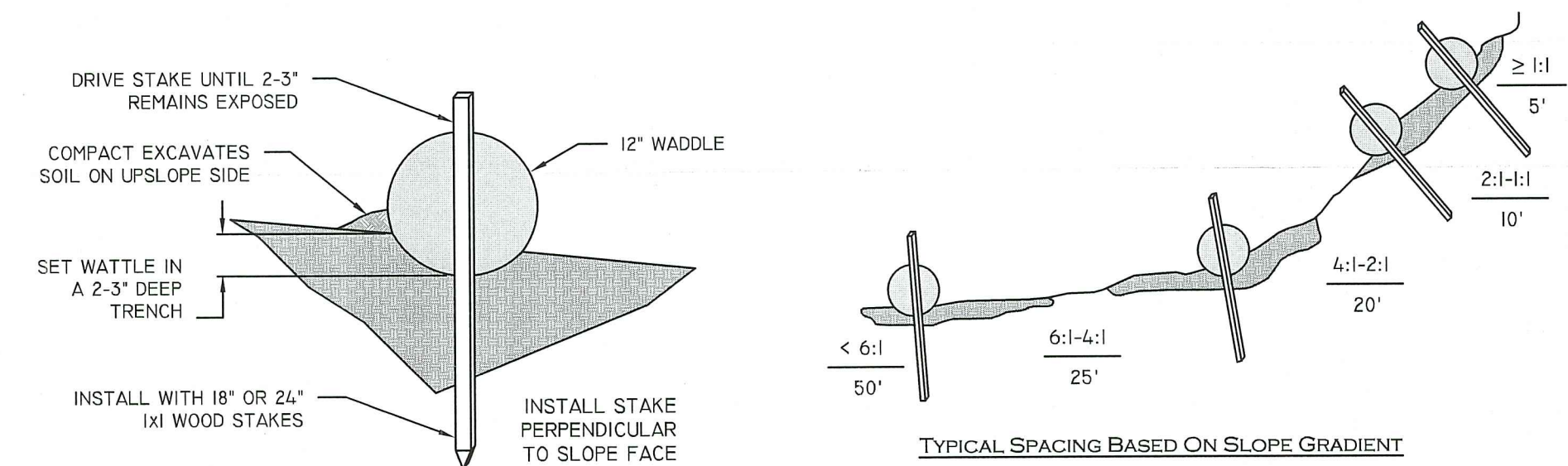
Impervious area	1808	SF
Rainfall event requirement	1	inches
Stone amounts (Select One)	Typ. Stone	
Storage Required	150.67	CF
	1127	gal.



Model	Storage Volume per Installed Unit		Number of Units Required	Storage Volume Provided	
	CF	gal.		CF	gal.
Contactar 100HD	30.73	230	5	154	1149
Recharger 150XLHD	53.84	403	3	162	1208
Recharger 280HD	73.67	551	3	221	1653
Recharger 330XLHD	96.24	720	2	192	1440
Recharger 902HD	111.92	837	2	224	1674



STRAW WATTLE (OR SILT SOCK) DETAIL
NOT TO SCALE



EROSION & SEDIMENTATION CONTROL:

- BEGIN AT THE LOCATION WHERE WATTLE IS TO BE INSTALLED BY EXCAVATING 2-3\"
- 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.
- SECURE THE WATTLE WITH 18-24\"
- CONTRACTOR IS RESPONSIBLE TO MAINTAIN INTEGRITY OF STRAW WATTLE FOR DURATION OF CONSTRUCTION.
- EROSION CONTROLS TO REMAIN UNTIL SOIL CONDITIONS STABILIZE.
- LOOSE HAY TO BE SPREAD ON AREAS OF EXPOSED LOAM & SEED UNTIL GERMINATION AND STABILIZATION OCCURS.

TEST HOLE DATA
DATE: 05-14-24

- TH 1
0'-2\"
- TH 2
0'-4\"

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: NOV 25 2024 FILE #: 24-0703
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Andy Cloutier

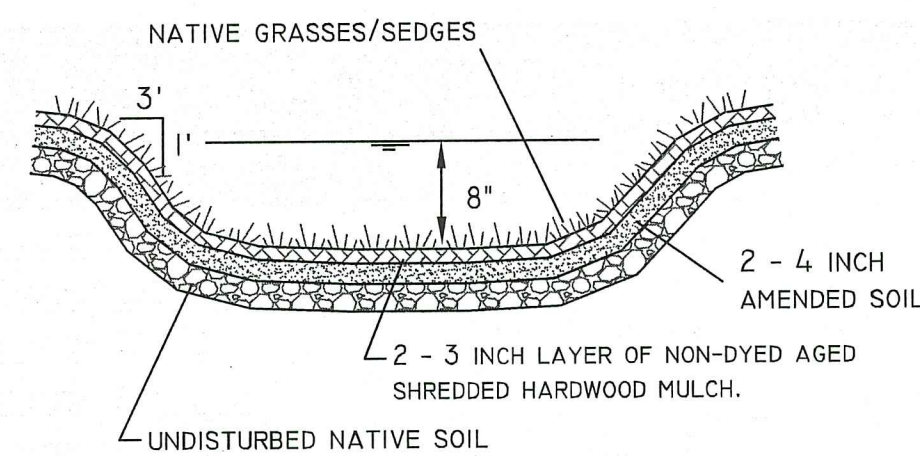
VEGETATIVE SWALE
NOT TO SCALE

SWALE A
2,116 SF IMPERVIOUS DRIVEWAY
SWALE A: 132 SF
3' WIDE x 44' LONG

SWALE B
1,800 SF IMPERVIOUS DRIVEWAY
AREA: 112 SF
2' WIDE x 56' LONG

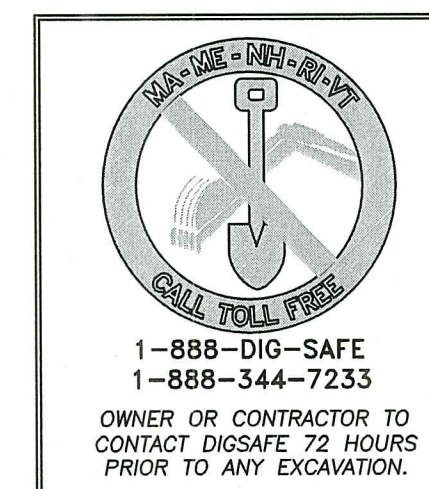
SWALE C
1,200 SF IMPERVIOUS DRIVEWAY
AREA: 96 SF
2' WIDE x 48' LONG

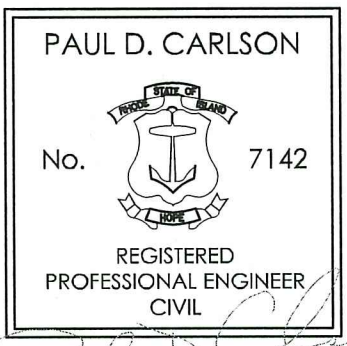
CROSS-SECTION



MAINTENANCE:

- THE VEGETATED SWALE SHALL BE INSPECTED ANNUALLY AND AFTER LARGE STORM EVENTS.
- ERODED SIDE SLOPES AND CHANNEL BOTTOM SHALL BE STABILIZED AS NECESSARY.
- 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 RESEEDED.
- VEGETATION IN DRY SWALES SHALL BE MOWED AS REQUIRED TO MAINTAIN MINIMUM GRASS HEIGHTS IN THE 4-6 INCH RANGE.
- 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.



DETAIL SHEET			
 PAUL D. CARLSON No. 7142 REGISTERED PROFESSIONAL ENGINEER - CIVIL		ASSESSOR'S PLAT 16 LOT 10 PARCEL A IRON MINE HILL ROAD NORTH SMITHFIELD, RHODE ISLAND	
PREPARED FOR: TITLE INVESTMENTS RIGP 140 RESERVOIR AVENUE, PROVIDENCE, RI 02907			
JOB # 22-062A	SCALE: N/A	DRAWN BY: LMB	DATE: 7-24-24
REVISED: 10-24-24			
 InSite Engineering Services, LLC PROFESSIONAL ENGINEERS LAND SURVEYORS Precision. Clarity. Certainty.		InSite Professional Complex, Suite 1 1539 Fall River Avenue, Seekonk, MA 02771 Phone: (508) 338-4500 Fax: (508) 338-4558 501 Great Road, Unit 104 North Smithfield, RI 02896 Phone: (401) 762-2870 Fax: (401) 762-2871 Web Address: InSiteEngineers.com	
		SHEET 2 OF 2	