

LOCUS MAP

NOT TO SCALE

NO.	DATE	DESCRIPTION	BY
2	2-27-17	SOIL STOCKPILE CONST. ENT.	
1	2/16/2017	ADDED DISTURBANCE AREA	WCR

LEGEND

NOT TO SCALE

- BOUNDARY
- BOUNDARY PROPOSED
- ABUTTER
- MAJOR CONTOUR
- MINOR CONTOUR
- STONEWALL
- WETLANDS EDGE
- LIMITS OF DISTURBANCE & EROSION CONTROL
- 50' PERIMETER WETLAND
- STREAM
- BUILDING ENVELOPE
- SOIL EVALUATION HOLE
- IRON PIN
- BOUND
- DRILL HOLE
- WELL
- UTILITY POLE

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

AREA OF DISTURBANCE

LOT 1	0.38 AC
LOT 2	0.48 AC
LOT 3	0.48 AC
LOT 4	0.48 AC
TOTAL	1.81 AC

- #### GENERAL NOTES:
1. THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR TOWN WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.
 2. WETLANDS SHOWN HEREIN WERE DELINEATED BY MASON & ASSOCIATES, INC. 771 PLAINFIELD PIKE, NORTH SCITUATE, RI ON JANUARY 15 AND 20, 2016.
 3. THIS SITE DOES NOT LIE WITHIN ANY KNOWN AGRICULTURAL USE, SILVICULTURAL USE, NATURAL HERITAGE OR FARMLAND CONSERVATION AREAS.
 4. THERE ARE NO KNOWN EASEMENTS OR RIGHTS OF WAY WITHIN OR ADJACENT TO THIS PARCEL.
 5. HORIZONTAL DATUM IS BASED ON RHODE ISLAND STATE PLANE COORDINATES NAD 83 DATUM AND CONTOURS BASED ON NAVD 88 DATUM.
 6. THERE ARE NO KNOWN HISTORIC CEMETERIES WITHIN OR IMMEDIATELY ADJACENT TO THIS PARCEL.
 7. TEST HOLES WERE DUG ON JANUARY 19, 2016 AND APPLICATION NUMBER IS 1613-1466.

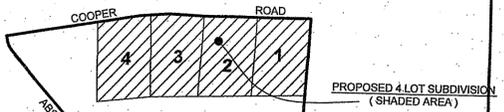
ZONING CRITERIA

ZONING DISTRICT	A-4
MINIMUM LOT AREA	4 ACRES / 174,240 SQ. FT.
MINIMUM LOT FRONTAGE	350'
MINIMUM FRONT YARD SETBACK	75'
MINIMUM SIDE YARD SETBACK	50'
MINIMUM REAR YARD SETBACK	100'
MAXIMUM BUILDING COVERAGE	4%
MAXIMUM BUILDING HEIGHT	35'

A.P. 16 LOT 77
 N/P PETER J. CAMPPELLONE
 D.B. 568 PG. 273

TOTAL ORIGINAL AREA
 2,287,989 SQ. FT.
 52.5250 ACRES

PROPOSED AREA
 1,570,667 SQ. FT.
 36.06 ACRES



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO.: 17-0030
 DATED: MAR 30 2017
 SEE LETTER OF SAME DATE.

Matthew D. Wemel

NORBERT A. THERIEN
 No. 1739
 LAND SURVEYOR

NATIONAL
 Surveyors-Developers
 Inc.
 42 Hamlet Ave., Woonsocket, R.I.
 (401) 769-7779

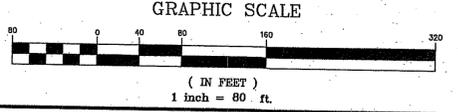
PETER J. CAMPPELLONE
 ASSESSORS PLAT 16 LOT 77
 COOPER ROAD
 GLOUCESTER, RHODE ISLAND
 JANUARY 2017

WETLANDS PLAN
PROPOSED MINOR SUBDIVISION

DRAWN BY: W.C.R. CHECKED BY: N.A.T. FIELD BY: R.C.C.S.
 FEBRUARY 2016 JOB No. 2015-251 SHEET 1 OF 4

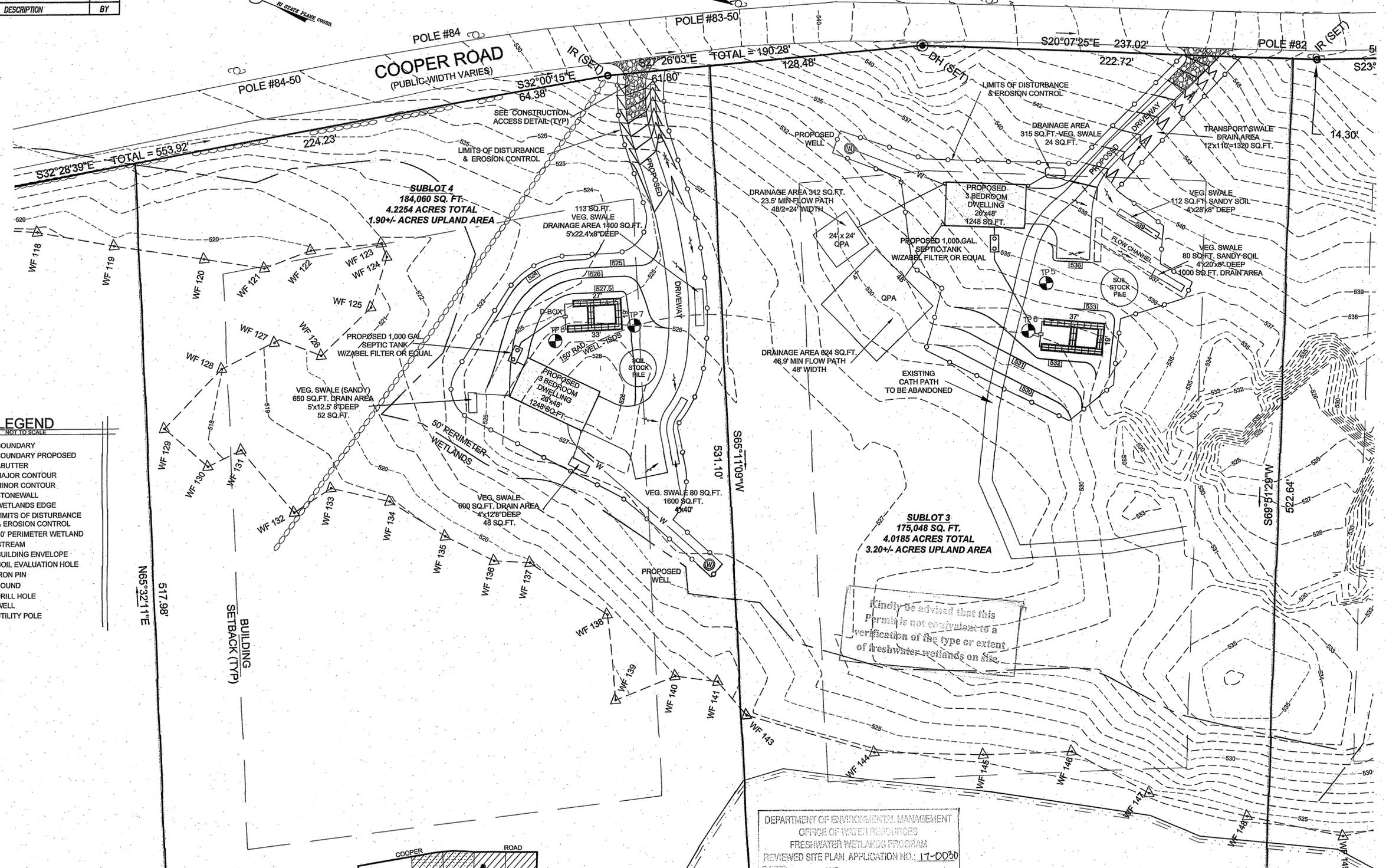
"I CERTIFY THAT THE INFORMATION SHOWN HEREON HAS BEEN OBTAINED BY AN ACTUAL SURVEY ON THE GROUND, THAT IT IS CORRECT AND THIS SURVEY AND PLAN CONFORM TO A CLASS STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS."

BY: *Norbert A. Therien*
 NORBERT A. THERIEN P.L.S.



1	2/16/2017	ADDED DISTURBANCE AREA	WCR
NO.	DATE	DESCRIPTION	BY

BENCH MARK:
 NAIL SET IN POLE
 ELEVATION 539.00
 NAVD 88 DATUM

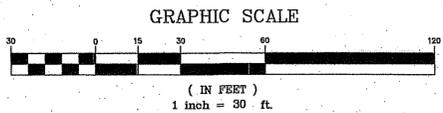
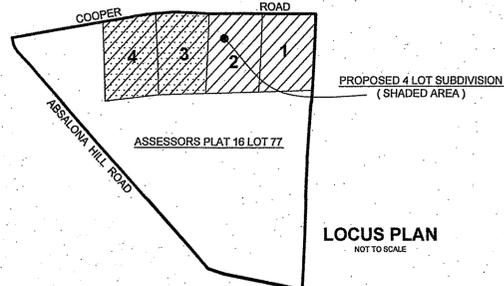


LEGEND
 NOT TO SCALE

- BOUNDARY
- BOUNDARY PROPOSED
- ABUTTER
- MAJOR CONTOUR
- MINOR CONTOUR
- STONEWALL
- WETLANDS EDGE
- LIMITS OF DISTURBANCE & EROSION CONTROL
- 50' PERIMETER WETLAND
- STREAM
- BUILDING ENVELOPE
- SOIL EVALUATION HOLE
- IRON PIN
- BOUND
- DRILL HOLE
- WELL
- UTILITY POLE

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO.: 17-0020
 DATED: MAR 20 2017
 SEE LETTER OF SAME DATE.
Martin D. Sencak



NORBERT A. THERIEN
 No. 1739
 PROFESSIONAL LAND SURVEYOR
 2-27-17

NATIONAL
 Surveyors-Developers
 Inc.
 42 Hamlet Ave., Woonsocket, R.I.
 (401) 769-7779

PETER J. CAMPellone
 ASSESSORS PLAT 16 LOT 77
 COOPER ROAD
 GLOCESTER, RHODE ISLAND
 JANUARY 2017

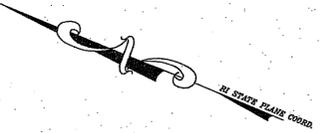
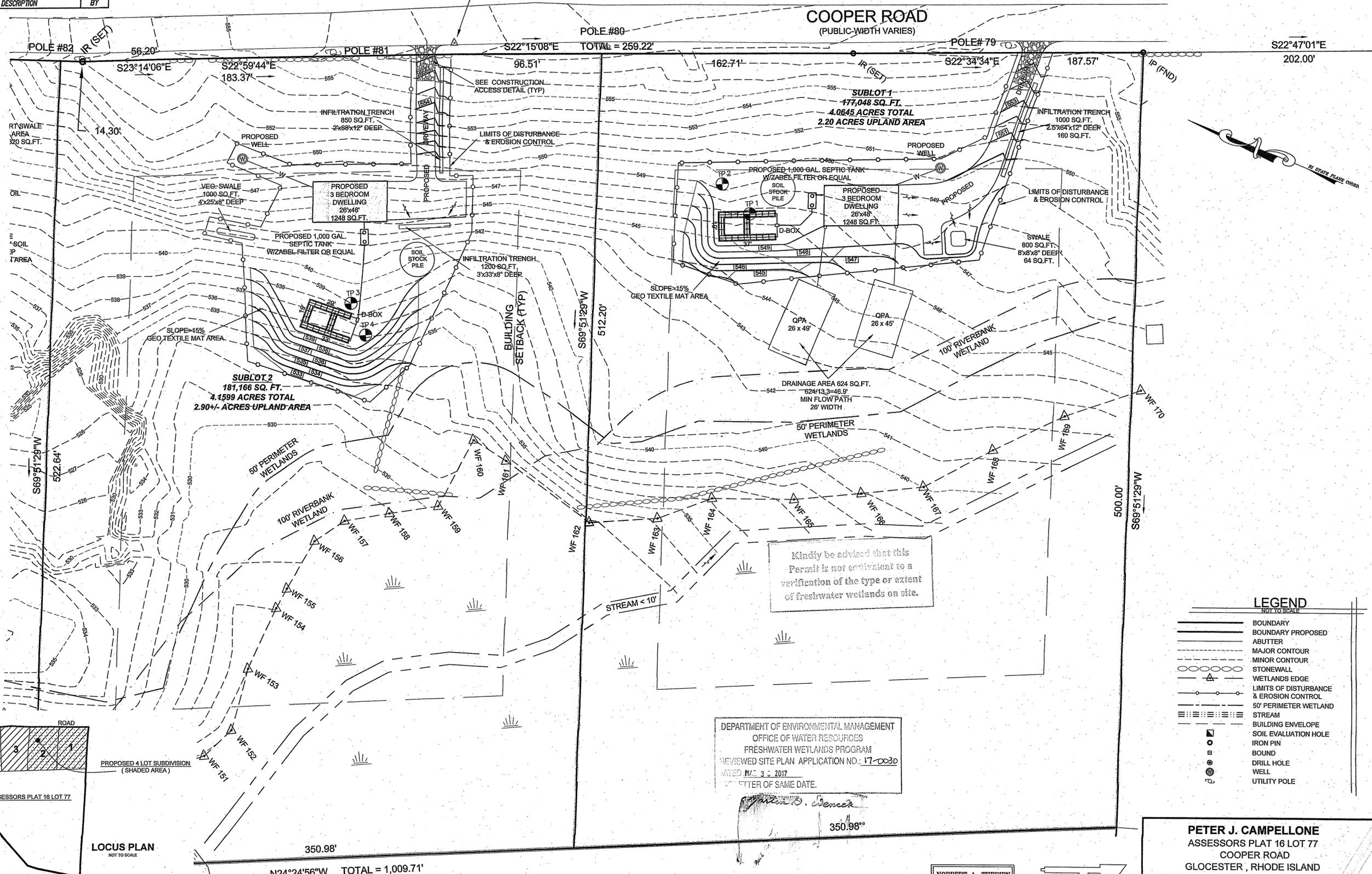
WETLANDS PLAN
PROPOSED MINOR SUBDIVISION

DRAWN BY: W.C.R. CHECKED BY: N.A.T. FIELD BY: R.C.,C.S.
 FEBRUARY 2016 JOB No. 2015-251 SHEET 2 OF 4

"I CERTIFY THAT THE INFORMATION SHOWN HEREON HAS BEEN OBTAINED BY AN ACTUAL SURVEY ON THE GROUND, THAT IT IS CORRECT AND THIS SURVEY AND PLAN CONFORM TO A CLASS SE STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.
 BY: *Norbert A. Therien*
 NORBERT A. THERIEN P.L.S.

NO.	DATE	DESCRIPTION	BY
1	2/16/2017	ADDED DISTURBANCE AREA	WCR

BENCH MARK:
PK NAIL IN PAVEMENT
ELEVATION 557.43
NAVD 88 DATUM

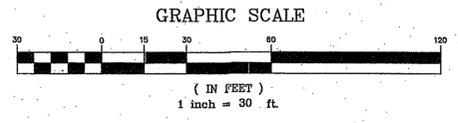


Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO. 17-0030
DATED M.C. 3 - 2017
BY: [Signature]
REGISTERED PROFESSIONAL SURVEYOR

LEGEND
NOT TO SCALE

[Symbol]	BOUNDARY
[Symbol]	BOUNDARY PROPOSED
[Symbol]	ABUTTER
[Symbol]	MAJOR CONTOUR
[Symbol]	MINOR CONTOUR
[Symbol]	STONEWALL
[Symbol]	WETLANDS EDGE
[Symbol]	LIMITS OF DISTURBANCE & EROSION CONTROL
[Symbol]	50' PERIMETER WETLAND
[Symbol]	STREAM
[Symbol]	BUILDING ENVELOPE
[Symbol]	SOIL EVALUATION HOLE
[Symbol]	IRON PIN
[Symbol]	BOUND
[Symbol]	DRILL HOLE
[Symbol]	WELL
[Symbol]	UTILITY POLE



NORBERT A. THERIEN
No. 1739
PROFESSIONAL LAND SURVEYOR

NATIONAL
Surveyors-Developers
Inc.
42 Hamlet Ave., Woonsocket, R.I.
(401) 769-7779

PETER J. CAMPellone
ASSESSORS PLAT 16 LOT 77
COOPER ROAD
GLOUCESTER, RHODE ISLAND
JANUARY 2017

WETLANDS PLAN
PROPOSED MINOR SUBDIVISION

DRAWN BY: W.C.R. CHECKED BY: N.A.T. FIELD BY: R.C.C.S.
FEBRUARY 2016 JOB No. 2015-251 SHEET 3 OF 4

"I CERTIFY THAT THE INFORMATION SHOWN HEREON HAS BEEN OBTAINED BY AN ACTUAL SURVEY ON THE GROUND, THAT IT IS CORRECT AND THIS SURVEY AND PLAN CONFORM TO A CLASS STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

BY: *Norbert A. Therien*
NORBERT A. THERIEN P.L.S.

2	2/27/2017	SOIL STOCKPILE, CONST. ENTRANCE	WCR
1	2/16/2017	ADDED DISTURBANCE AREA	WCR
NO.	DATE	DESCRIPTION	BY

SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

THE SILT SOCK 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 SEEDED, PROTECTED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL REGULARLY CHECK ALL SEEDED AREAS TO ENSURE THAT A GOOD STAND OF VEGETATION IS MAINTAINED.

ALL 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 SEEDED AND/OR STABILIZED PER CONTRACT SPECIFICATIONS.

THE EROSION CHECK 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 CURRENT "RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS HANDBOOK AND THE SOIL EROSION AND SEDIMENT CONTROL PLAN."

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.

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 LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR TOWN WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOURS IN ADVANCE.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

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 DIVIDES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC.

ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS CHANNELING DEVICES, ETC. SHALL BE IN 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.

ESTABLISHMENT OF VEGETATIVE COVER:

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.

"I CERTIFY THAT THE INFORMATION SHOWN HEREON HAS BEEN OBTAINED BY AN ACTUAL SURVEY ON THE GROUND, THAT IT IS CORRECT AND THIS SURVEY AND PLAN CONFORM TO A CLASS 22 STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

BY: *Norbert A. Therien*
NORBERT A. THERIEN P.L.S.

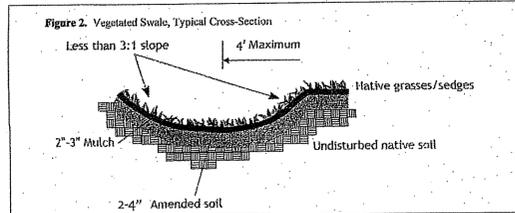
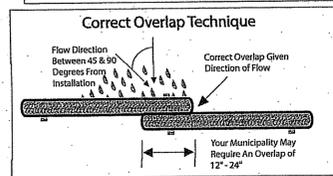
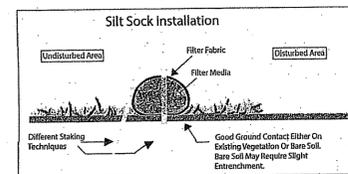
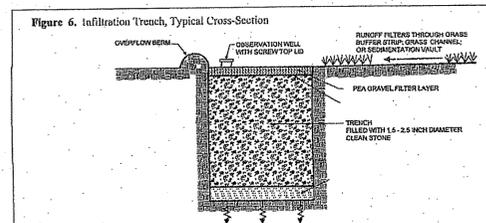


Table 5. Vegetated Swale Sizing Guidelines

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



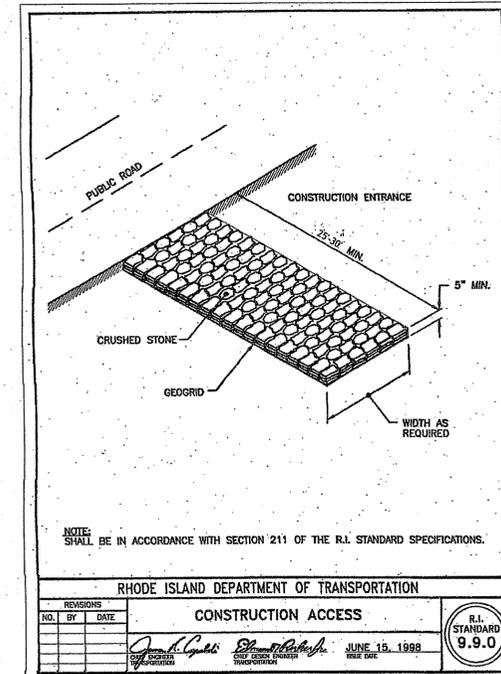
SET ALONG LIMITS OF DISTURBANCE



Tables 10. and 11. Sizing Guidance for Infiltration Trenches and Dry Wells

Drainage Area (sq. ft.)	Infiltration Trench / Dry Well Surface Area in Square Feet (Sandy Soils)						
	6 in. deep	12 in. deep	18 in. deep	24 in. deep	30 in. deep	36 in. deep	48 in. deep
100	24	16	12	10	8	7	5
200	48	32	24	19	16	14	11
300	72	48	36	29	24	21	16
400	96	64	48	39	32	28	21
500	119	80	60	48	40	34	27
600	143	96	72	58	48	41	32
700	167	112	84	67	56	48	38
800	191	128	96	77	64	55	43
900	215	144	108	87	72	62	48
1000	239	160	120	96	80	69	54

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



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
CONSTRUCTION ACCESS
JUNE 15, 1988
R.I. STANDARD 9.9.0

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO. 17-0020
DATED MAR 30 2017
SEE LETTER OF SAME DATE.

NORBERT A. THERIEN
No. 1739
PROFESSIONAL LAND SURVEYOR

NATIONAL Surveyors-Developers Inc.
42 Hamlet Ave., Woonsocket, R.I. (401) 769-7779

PETER J. CAMPPELLONE
ASSESSORS PLAT 16 LOT 77
COOPER ROAD
GLOCESTER, RHODE ISLAND
JANUARY 2017

DETAIL PLAN

DRAWN BY: W.C.R. CHECKED BY: N.A.T. FIELD BY: R.C.,C.S.
FEBRUARY 2016 JOB No. 2015-251 SHEET 4 OF 4