

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Environmental Management
Office of Water Resources

Site Evaluation Form
Part A - Soil Profile Description
Application Number: 0532-0856

Property Owner: Halberg, Scott
Property Location: Tower Hill Road, AP 34-2 Lot 19, South Kingstown
Date of Test Hole: 6/13/05
Soil Evaluator: Gary Blazewski
Weather: Sunny, 58°
Shaded: Yes No Time: 2:45 PM

Horizon	Depth	Horizon Boundaries	Soil Color	Moisture	Texture	Structure	Consistence	Soil Category
A	0-8	a s	10YR 3/2		sil	lobm	fr	4
Bw	8-36	C i	10YR 4/4 2.5Y 5/2 ccds 20"		sil	lobm	fr	4
C	36-120		2.5Y 3/2 10YR 4/6		g fs	0 ma	fr	7

Soil Class: Compact Ablaion T11
Depth to Groundwater Seepage: 122" 2-84"
Estimated Seasonal High Water Table: 120" 2-20"

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Horizon	Depth	Horizon Boundaries	Soil Color	Moisture	Texture	Structure	Consistence	Soil Category
A	0-7	C s	10YR 2/2		sil	lobm	fr	4
Bw	7-40	C i	10YR 4/4 2.5Y 5/2 ccds 18"		sil	lobm	fr	4
C	40-120		2.5Y 3/2 10YR 3/4		g fs	0 ma	fr	7

Soil Class: Compact Ablaion T11
Depth to Groundwater Seepage: 3-96"
Estimated Seasonal High Water Table: 3-18"

SOIL STABILIZATION & PLANTING PROGRAM

ACCEPTABLE PLANTING MATERIALS:
LOAM - THE MATERIAL TO BE FURNISHED SHALL CONSIST OF LOOSE, FRIABLE, SANDY LOAM OR LOAM TOPSOIL FREE OF A MIXTURE OF SUBSOIL, REFUSE, STUMPS, ROOTS, ROCKS, BRUSH, WEEDS AND OTHER MATERIAL WHICH WILL PREVENT THE FORMATION OF A SUITABLE SEED BED.

SEED MIXTURES - ALL LEGUME SEED SHALL BE INOCULATED WITHIN 24 HOURS BEFORE MIXING AND PLANTING WITH THE APPROPRIATE INOCULUM FOR EACH VARIETY. ALL INOCULA SHALL BE FRESH AND SHALL BE USED WITHIN THE DATE LIMIT PRESCRIBED BY THE MANUFACTURER.

FOR RELATIVELY FLAT SLOPES:
MIX
RED FESCUE - CHEWING'S PENNLAWN OR CREEPING KENTUCKY BLUEGRASS
COLONIAL BENTGRASS - ASTORIA OR EXETER
PERENNIAL RYEGRASS
- SEEDING RATE = 100 LBS. PER ACRE
FOR STEEP SLOPES 3:1 OR GREATER

MIX
RED FESCUE - PENNLAWN OR CREEPING PERENNIAL RYEGRASS
COLONIAL BENTGRASS - ASTORIA OR EXETER
BIRDSFOOT TREFOIL - EMPIRE
- SEEDING RATE: 100 LBS. PER ACRE
FOR SOO WATERWAYS, DRAINAGE DITCHES, DRAINAGE BASINS:
MIX
CREEPING RED FESCUE
TALL FESCUE OR REED CANARYGRASS*
* USE REED CANARYGRASS WHERE MOWING IS NOT REQUIRED.

THE ACCEPTED PLANTING SEASON SHALL BE BETWEEN APRIL 1ST AND OCTOBER 15TH. CONTRACTOR SHOULD COORDINATE ON ALL DISTURBED AREAS. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF FOUR (4) INCHES OF LOAM ON AREAS UP TO 10% IN GRADE. ALL AREAS OVER 10% SHALL RECEIVE A MINIMUM OF SIX (6) INCHES.
REFERENCE IS HEREBY MADE TO THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK PUBLISHED BY THE SOIL CONSERVATION SERVICE. THE GUIDELINES SHOWN THEREIN SHOULD BE INCORPORATED INTO THE CONSTRUCTION PRACTICES ON SITE.

EROSION CONTROL PROGRAM

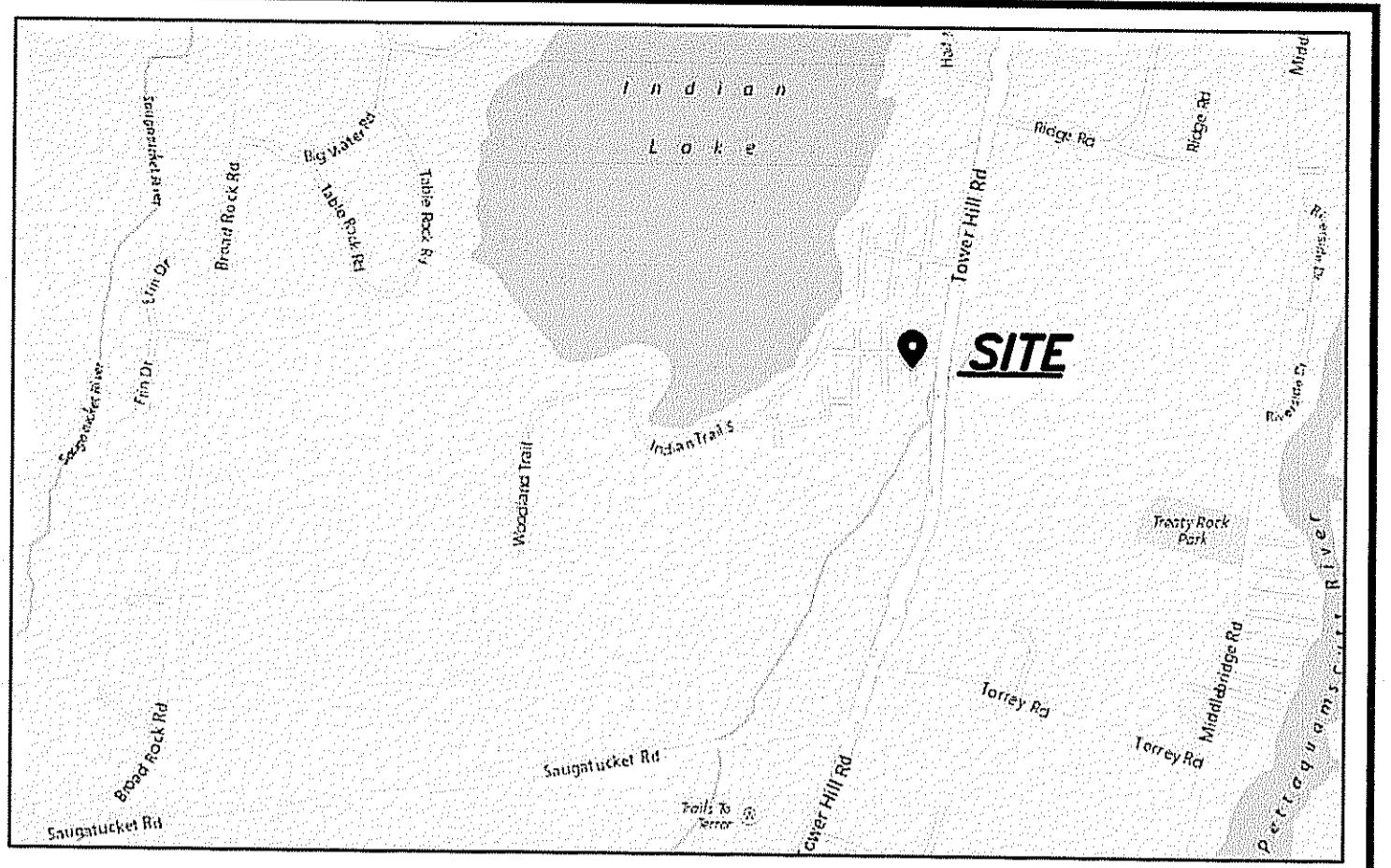
PRIOR TO START OF CONSTRUCTION, HAYBALES, SILT FENCES AND ALL OTHER SPECIFIED EROSION CONTROL FENCES SHALL BE IN PLACE.
CRITICAL AREAS SUCH AS WETLAND AREAS, SLOPES AND STREAMS SHALL BE PROTECTED AS PER PLAN AND, IN THE PRESENCE OF WETLANDS, THE CONDITIONS OF THE ASSENT ORDER SHALL BE ADHERED TO.
THE CONTRACTOR SHALL BE REQUIRED TO ESTABLISH AND FULLY MAINTAIN ALL REQUIRED EROSION AND SEDIMENTATION CONTROLS.

SEDIMENTATION CONTROL PROGRAM

ALL EXPOSED SLOPES, INCLUDING STOCKPILES OF MATERIAL, SHALL RECEIVE TEMPORARY SEDIMENTATION AND EROSION CONTROLS. THIS WILL INCLUDE LOGGING AND SEEDING, MULCHING, HAYMATS, ETC., TO STABILIZE THE AREA.
ALL DRAINAGE STRUCTURES SHALL BE SURROUNDED BY SHOULDS TO PREVENT INFILTRATION OF SEDIMENTS.
SHOULDS SEDIMENTS ENTER A CRITICAL AREA (WETLAND, BUFFER ZONE, ADJUTING PROPERTY) THE CONTRACTOR SHALL IMMEDIATELY CLEAN AND RESTORE THE EFFECTED AREA.

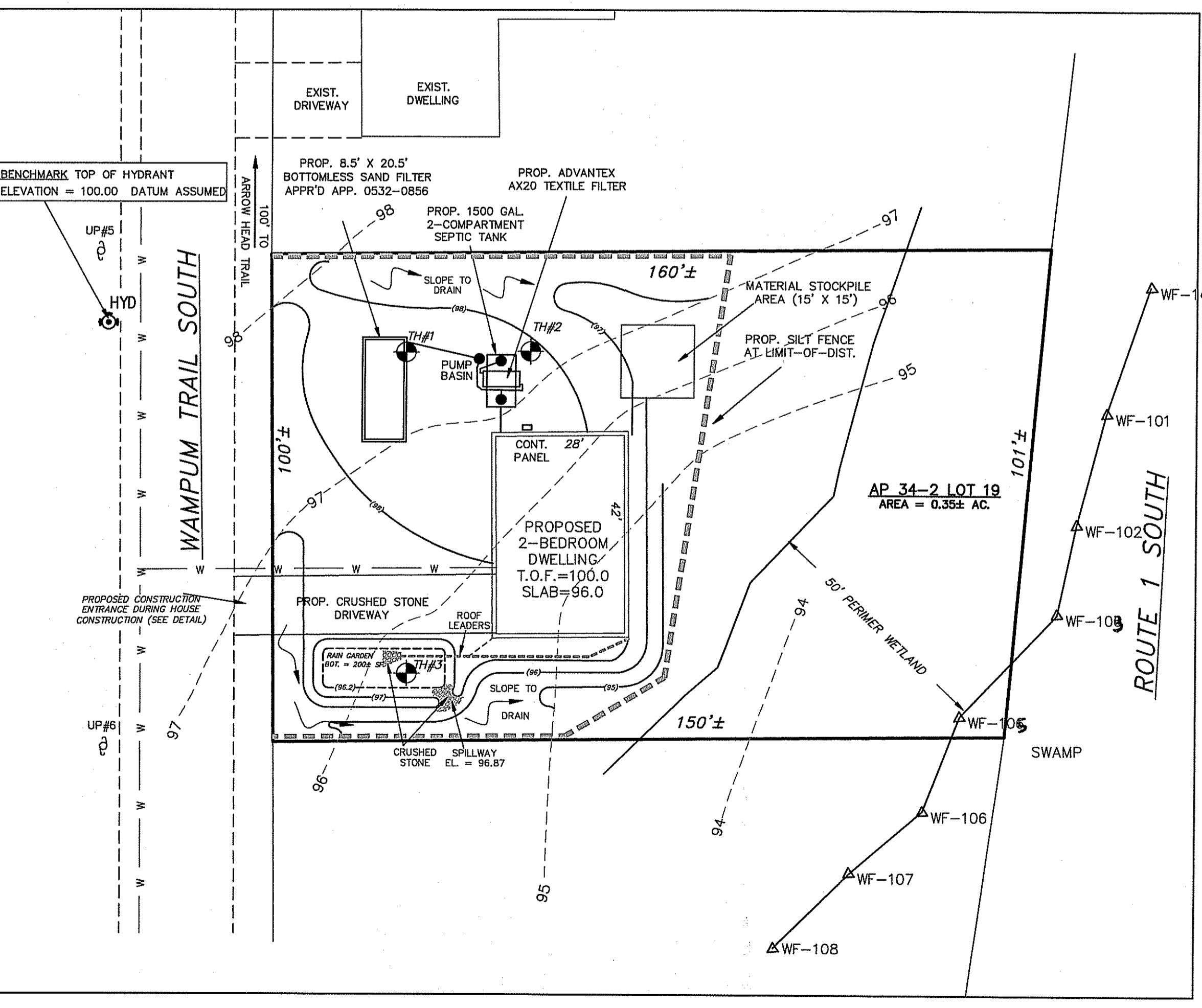
GENERAL NOTES:

- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED BY THE STATE AND THE MUNICIPALITY IN WHICH WORK IS BEING PERFORMED PRIOR TO START OF ANY WORK.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DOCUMENT EXISTING CONDITIONS OF SURROUNDING PROPERTIES AND TO MAINTAIN THE INTEGRITY OF THE SAME. ANY DAMAGE TO AND THE COST OF REPAIR OF UTILITIES, ROADWAYS, STRUCTURES AND SURROUNDING PROPERTY SHALL BE FULLY BORNE BY THE CONTRACTOR.
- ALL WORKMANSHIP AND MATERIALS SHALL MEET OR EXCEED THE LATEST STANDARDS OF THE MUNICIPALITY, AND THE LATEST STATE STANDARDS AND SPECIFICATIONS PUBLISHED FOR ROAD AND BRIDGE CONSTRUCTION.
- CONTACT DIG-SAFE AND UTILITY COMPANIES FOR EXACT ON-SITE LOCATION OF EXISTING UNDERGROUND UTILITIES AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN REQUIRED INSPECTION SCHEDULE OF THE MUNICIPALITY. UTILITY COMPANIES AND ALL OTHER REQUIRED PARTIES SHALL STRICTLY ADHERE TO THOSE REQUIREMENTS.
- ALL CONTRACTORS SHALL ADHERE TO ALL CONDITIONS OF CONSTRUCTION APPROVALS AND SHALL KEEP A COPY OF ALL APPROVALS ON-SITE DURING CONSTRUCTION. CONTRACTOR SHALL READ ALL APPROVALS PRIOR TO START OF CONSTRUCTION AND SHALL CLARIFY ANY QUESTIONS BEFOREHAND.



CONSTRUCTION SEQUENCE

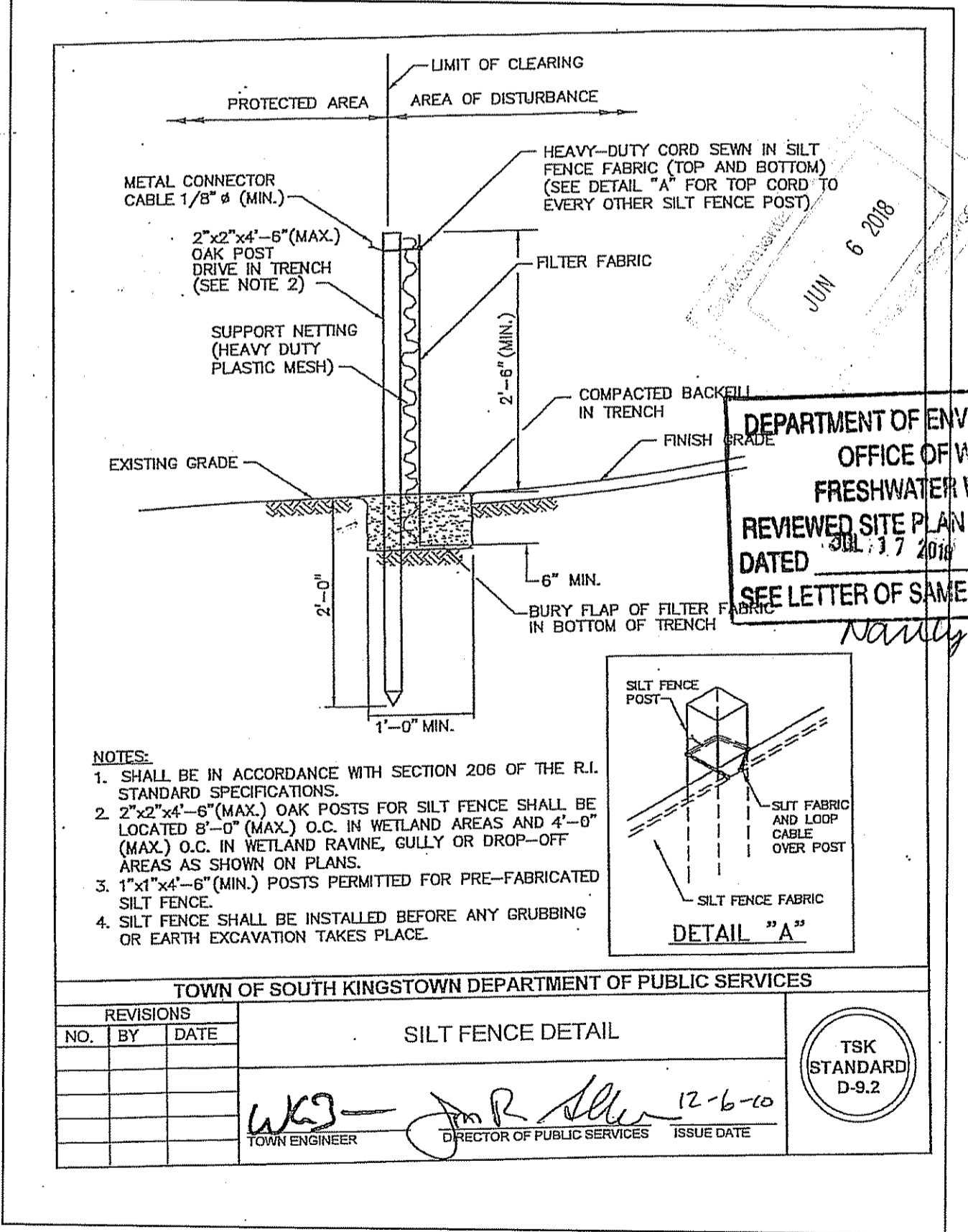
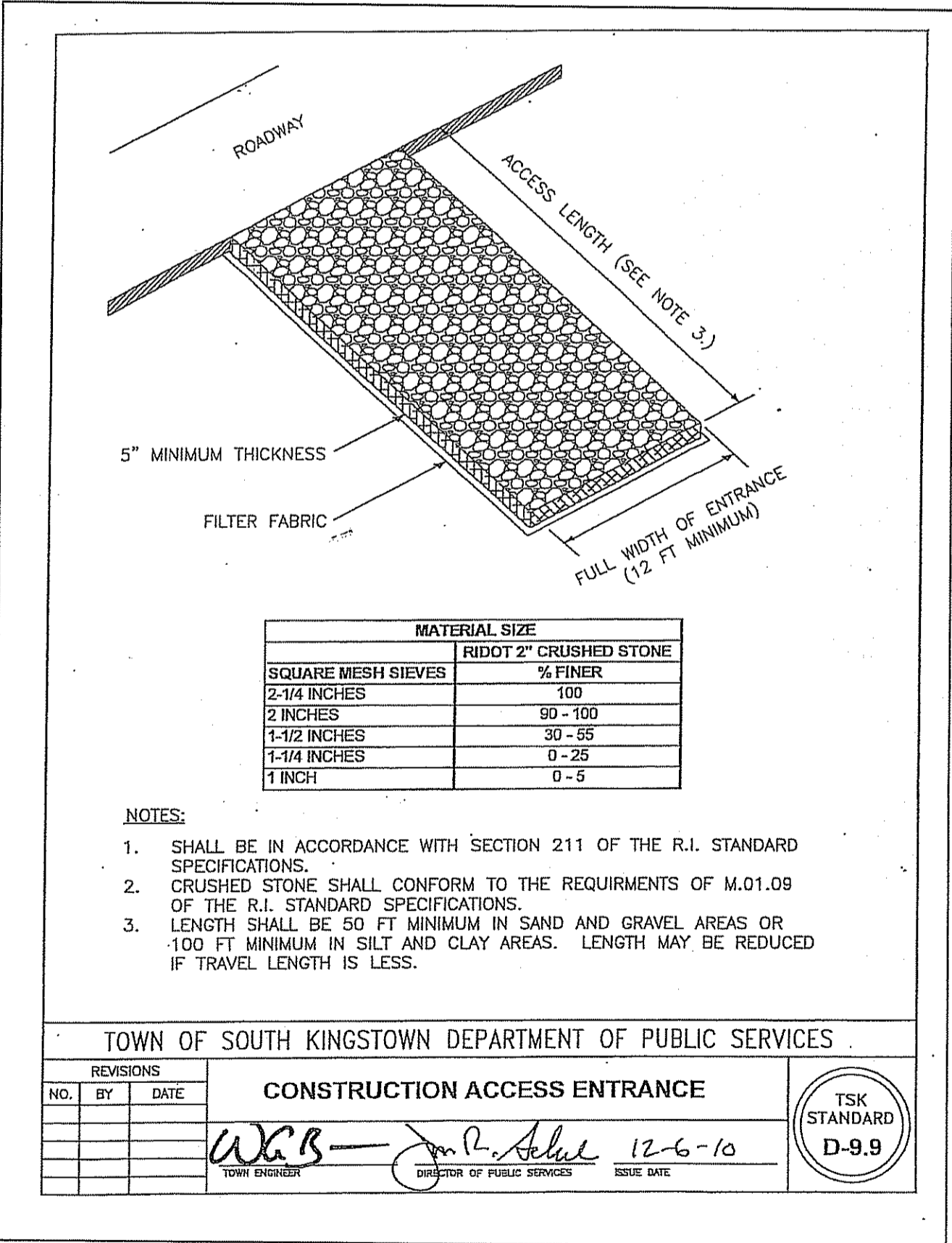
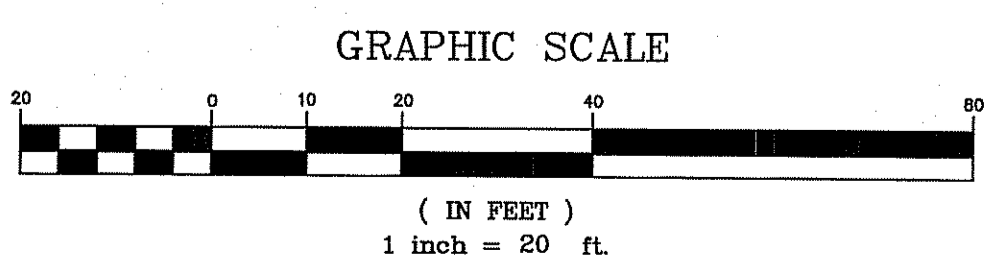
- THE PROPOSED LAND DISTURBANCE AND CONSTRUCTION WILL BE COMPLETED IN THE FOLLOWING PHASES:
- INSTALL ALL EROSION & SEDIMENT CONTROL MEASURES ON SITE AND OFF SITE IF NECESSARY.
 - CLEAR PROPERTY; STRIP, REMOVE AND STOCKPILE TOPSOIL TO DESIGNATED PROTECTED AREA.
 - EXCAVATE AREA FOR FOUNDATION; STOCKPILE MATERIAL TO DESIGNATED PROTECTED AREA.
 - POUR FOUNDATION, CONNECT SITE UTILITIES IF NECESSARY, AND INSTALL STORMWATER BEST MANAGEMENT PRACTICES.
 - RE-GRADE, RE-LOAM & SEED SITE AND COMPLETE FINAL SITE LANDSCAPING.
- TOTAL PROJECT TIME IS 4 TO 6 MONTHS.



LEGEND

- BOUNDARY PROPERTY LINE
- SOIL EVALUATION TEST HOLE
- - - EXISTING CONTOUR LINE
- (80) PROPOSED CONTOUR LINE
- - - WATER LINE
- ===== SILT FENCE AT PROPOSED LOD

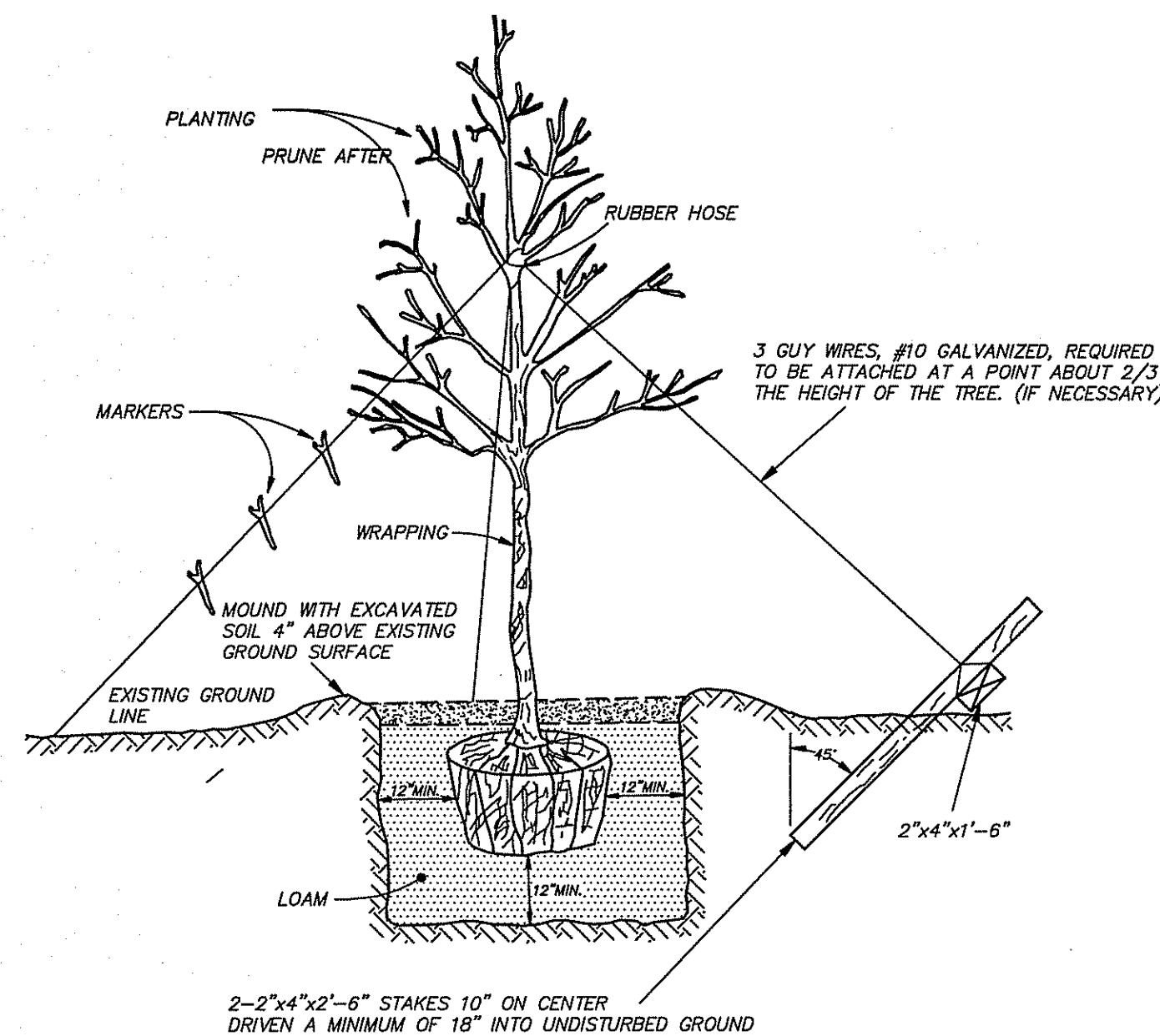
PROPOSED TOWN EROSION CONTROL(S) AS PER ENGINEER'S DESIGN INCLUDING BUT NOT LIMITED TO:
TSK STD. D-9.1 BALED HAY EROSION CHECK
TSK STD. D-9.2 SILT FENCE DETAIL
TSK STD. D-9.3 COMBINED HAYBALE & SILTFENCE
TSK STD. D-9.9 CONSTRUCTION ACCESS ENTRANCE



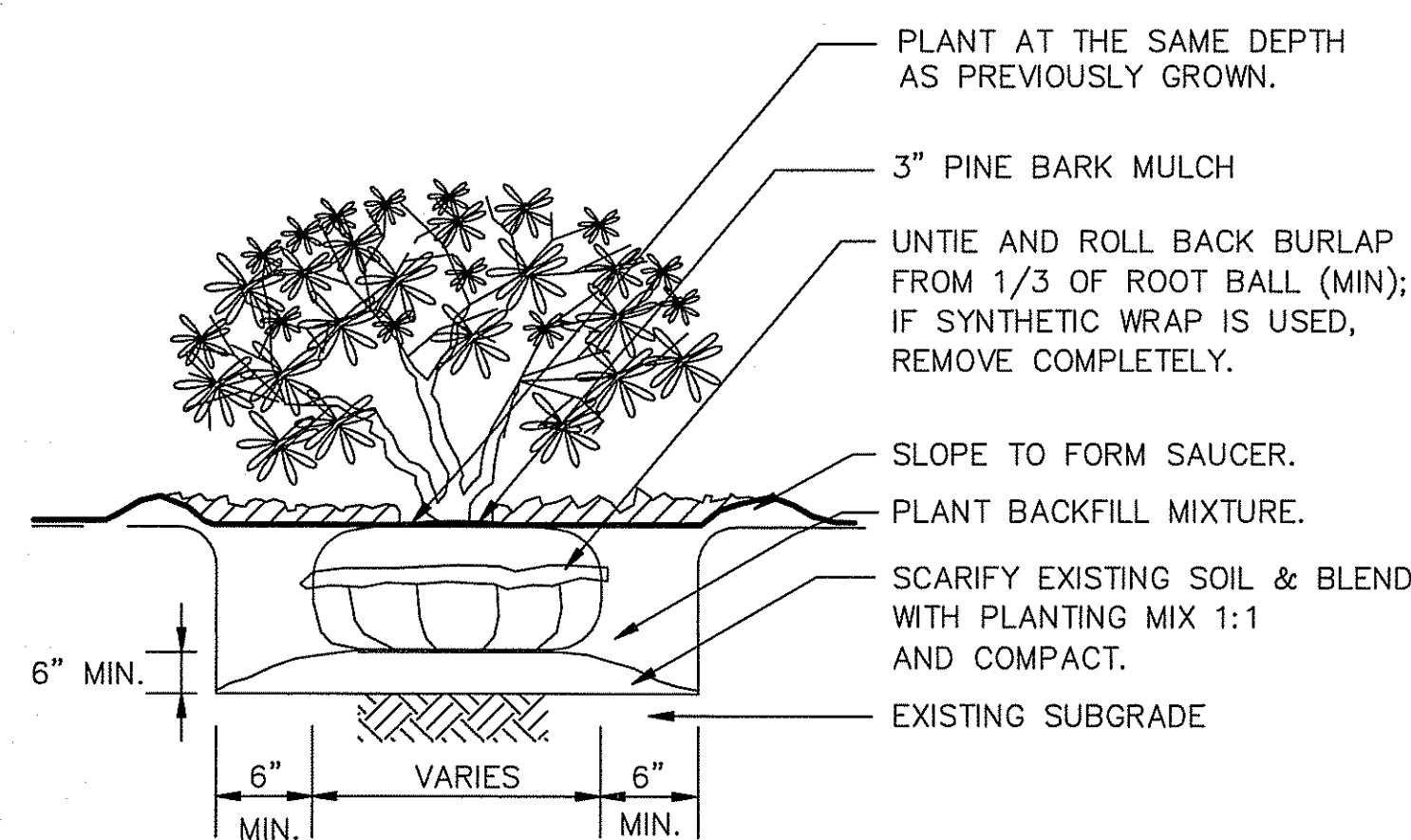
GARY C. LAMOND
REGISTERED PROFESSIONAL ENGINEER
CIVIL
7123

TITLE: EROSION CONTROL PLAN
PROJECT: AP 34-2 LOT 19 WAMPUM TRAIL SOUTH SOUTH KINGSTOWN, RI
CLIENT: KNOLLWOOD BUILDING CORP., INC. GARY C. LAMOND, PE, LLC
194 HATCHERY ROAD NORTH KINGSTOWN, RI 02852

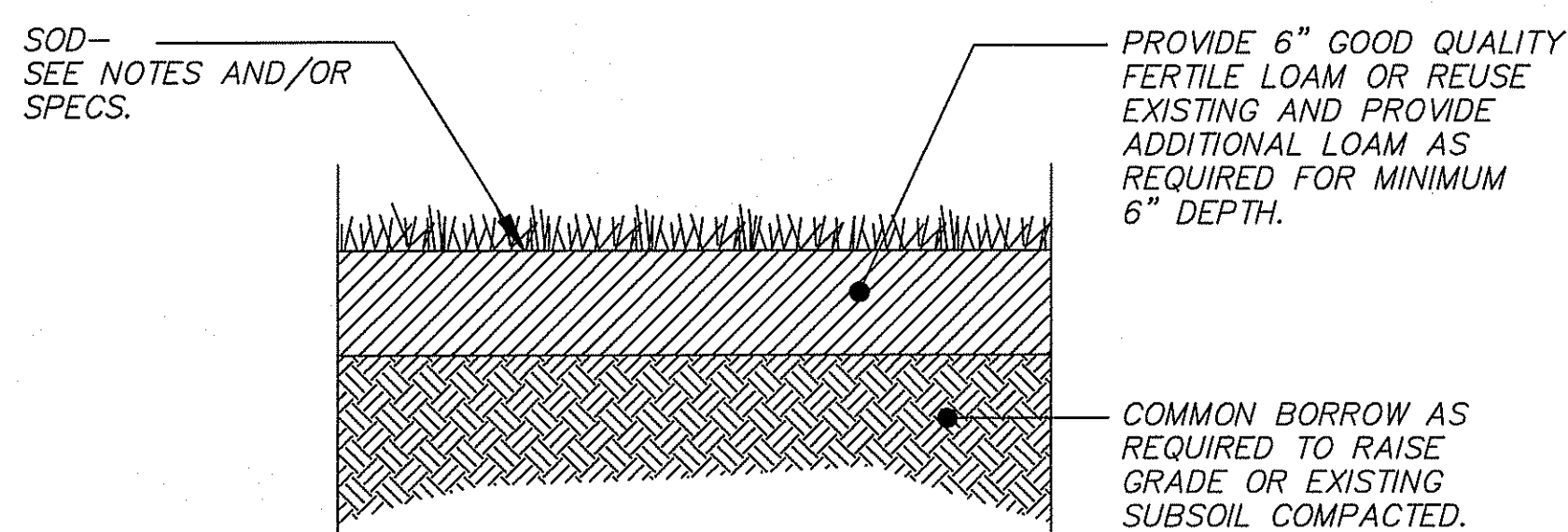
PROJ. NO: 2018014
DATE: 06/5/18
1/2



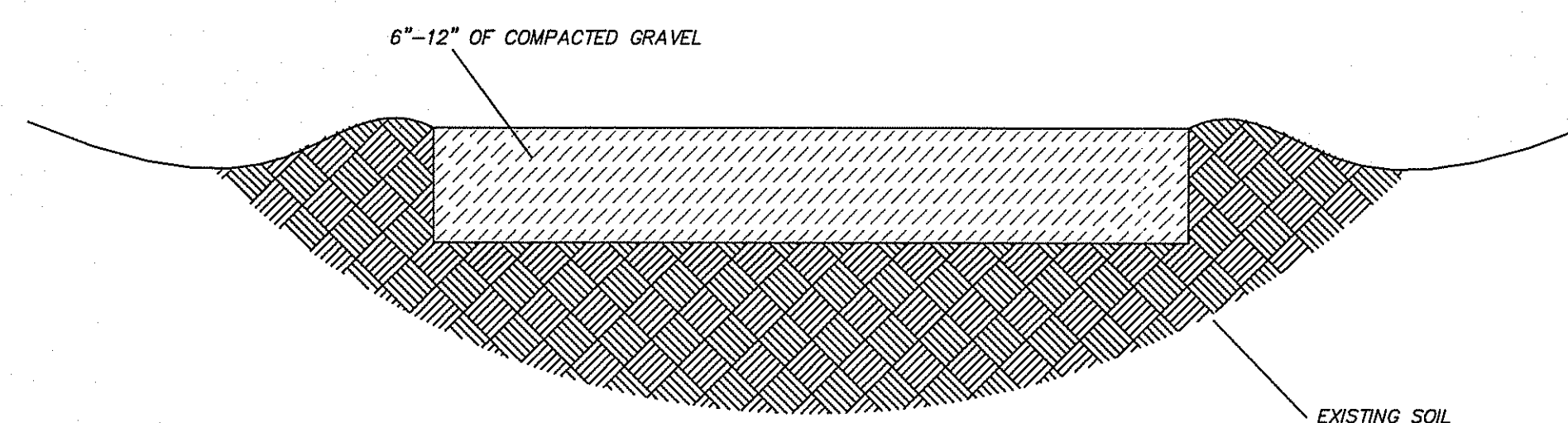
TYPICAL TREE PLANTING DETAIL
NOT TO SCALE



TYPICAL SHRUB PLANTING DETAIL
NOT TO SCALE



LOAM-SOD DETAIL
NOT TO SCALE



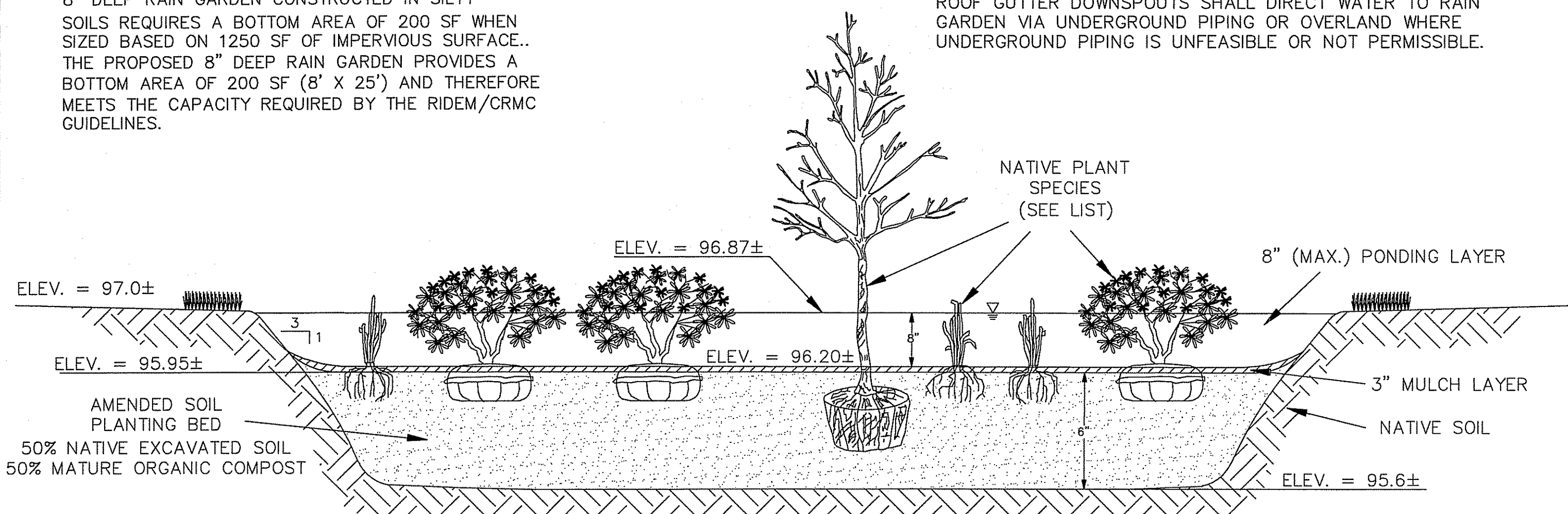
PROPOSED DRIVEWAY DETAIL
NOT TO SCALE

RAIN GARDEN DESIGN CALCULATIONS

PROPOSED ROOF AREA = 1232 SF
FROM TABLES 7 AND 8 OF THE RIDEM/CRMC GUIDELINES FOR SINGLE FAMILY RESIDENTIAL DEVELOPMENT AN 8\"/>

NOTE: RAIN GARDEN AREA LOCATED AT LEAST 10 FT FROM FOUNDATION, 15 FT FROM OWTS AND 25 FT FROM ANY EXISTING OR PROPOSED WELLS.

ROOF GUTTER DOWNSPOUTS SHALL DIRECT WATER TO RAIN GARDEN VIA UNDERGROUND PIPING OR OVERLAND WHERE UNDERGROUND PIPING IS UNFEASIBLE OR NOT PERMISSIBLE.



RAIN GARDEN - TYPICAL CROSS-SECTION
NOT TO SCALE

SUGGESTED RAIN GARDEN PLANT LIST

SPECIES	COMMON NAME	PLANT TYPE
Amelanchier arborea	SERVICEBERRY	TREE
Amelanchier canadensis	SHADBUSH	SHRUB
Amelanchier laevis	ALLEGHENY SERVICEBERRY	TREE
Arctostaphylos uva-ursi	BEARBERRY	SHRUB
Asclepias tuberosa	BUTTERFLY MILKWEED	PERENNIAL
Carex stricta	TUSSOCK SEDGE	GRASS
Clethra alnifolia	SWEET PEPPERBUSH	SHRUB
Comptonia peregrina	SWEET FERN	SHRUB
Cornus amomum	SILKY DOGWOOD	SHRUB
Cornus racemosa	GRAY DOGWOOD	SHRUB
Cornus sericea	REDOSIER DOGWOOD	SHRUB
Eupatorium purpureum	JOE PYE WEED	PERENNIAL
Ilex glabra	INKBERRY HOLLY	SHRUB
Ilex opaca	AMERICAN HOLLY	TREE
Ilex verticillata	WINTERBERRY HOLLY	SHRUB
Morella (Myrica) pensylvanica	BAYBERRY	SHRUB
Panicum virgatum	SWITHGRASS	GRASS
Photinia melanocarpa	BLACK CHOKEBERRY	SHRUB
Photinia pyrifolia	RED CHOKEBERRY	SHRUB
Symphytichum novae-angliae	NEW ENGLAND ASTER	PERENNIAL
Vaccinium corymbosum	HIGHBUSH BLUEBERRY	SHRUB
Vernonia noveboracensis	NEW YORK IRONWEED	PERENNIAL
Viburnum dentatum	ARROWOOD	SHRUB

PLANT SPECIES WERE SELECTED FROM THE RHODE ISLAND COASTAL PLANT GUIDE PREPARED BY THE URI CELS AND RI CRMC. ONLY THOSE NATIVE PLANTS THAT ARE SUITABLE FOR RAIN GARDENS AND ARE TOLERANT OF FULL SUN AND DROUGHT ARE SHOWN HERE.

TREES SHALL BE PLANTED WITH A DENSITY OF NO MORE THAN ONE PER 250 SF, SPACED 15 FT ON CENTER. SHRUBS SHALL BE PLANTED 5-10 FT ON CENTER AND HERBACEOUS VEGETATION PLANTED 2.5 FT ON-CENTER.

MULCH

THE MULCH LAYER SHALL CONSIST OF WELL AGED (OVER 6 MONTHS) SHREDDED HARDWOOD THAT IS UNIFORM IN COLOR AND FREE OF OTHER MATERIALS (SUCH AS WEED SEEDS, SOIL, ROOTS, ETC.). GRASS CLIPPINGS SHOULD NOT BE USED AS MULCH MATERIAL. THE MAXIMUM DEPTH OF THE MULCH LAYER SHALL BE 3 INCHES.

RAIN GARDEN AREA PLANTING

- LAYOUT PLANTS IN THE DESIRED PATTERN KEEPING THEM IN CONTAINERS UNTIL PLANTING.
- DIG HOLE APPROXIMATELY TWICE THE WIDTH OF THE CONTAINER AND DEEP ENOUGH FOR THE CROWN OF THE PLANT TO BE LEVEL WITH GRADE AFTER PLANTING. TAMP LIGHTLY AROUND ROOTS TO ELIMINATE AIR VOIDS.
- PLACE 3\"/>

RAIN GARDEN AREA MAINTENANCE

- REMOVE WEEDS (BY HAND) FOR THE FIRST TWO GROWING SEASONS OR UNTIL VEGETATION IS WELL ESTABLISHED. CONTINUE TO REMOVE ISOLATED WEED PATCHES AS NEEDED.
- LEAVE STEMS AND SEED HEADS THROUGH WINTER AS A FOOD SOURCE FOR BIRDS AND COVER FOR WILDLIFE.
- CUT BACK PLANTS IN SPRING TIME AFTER NEW GROWTH REACHES 4-6\"/>

REVIEWED SITE PLAN APPLICATION 18-0131
DATED JUL 17 2019
SEE LETTER OF SAME DATE.
Tanya L. Freeman

EROSION CONTROL PROGRAM

PRIOR TO START OF CONSTRUCTION, HAYBALES, SILT FENCES AND/OR ALL OTHER SPECIFIED EROSION CONTROL FENCES SHALL BE IN PLACE.

CRITICAL AREAS SUCH AS WETLAND AREAS, SLOPES AND STREAMS SHALL BE PROTECTED AS PER PLAN AND, IN THE PRESENCE OF WETLANDS, THE CONDITIONS OF ANY ISSUED PERMIT SHALL BE ADHERED TO.

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ANY DRAINAGE STRUCTURES SHALL BE SURROUNDED BY HAYBALES TO PREVENT INFILTRATION OF SEDIMENTS.

SHOULD SEDIMENTS ENTER A CRITICAL AREA (WETLAND, BUFFER ZONE, ABUTTING PROPERTY) THE CONTRACTOR SHALL IMMEDIATELY CLEAN AND RESTORE THE AFFECTED AREA.

SLOPE PROTECTION TO BE INSTALLED ON ANY DISTURBED AREAS SUBJECT TO EROSION.

EXTREME CARE SHALL BE TAKEN TO PREVENT SEDIMENT OR UNSUITABLE MATERIAL FROM ENTERING WETLANDS, ROADWAYS AND/OR DRAINAGE STRUCTURES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL EROSION CONTROL MEASURES PROMPTLY AFTER EACH RAINFALL AND TO ENSURE THAT RUNOFF FLOW PATTERNS ARE NOT INHIBITED DURING RAINFALL AND/OR SNOWMELT.

ACCUMULATED SEDIMENTS SHALL BE REMOVED AS DIRECTED BY THE OWNER, ENGINEER, BIOLOGIST, APPLICANT, LOCAL OR STATE OFFICIALS.

	TITLE: EROSION CONTROL PLAN	PROJ. NO: 2018014
	PROJECT: AP 34-2 LOT 19 WAMPUM TRAIL SOUTH SOUTH KINGSTOWN, RI	DATE: 06/5/18
CLIENT: KNOLLWOOD BUILDING CORP., INC.	2/2	
GARY C. LAMOND, PE, LLC 194 HATCHERY ROAD NORTH KINGSTOWN, RI 02852		
SCALE: AS SHOWN		