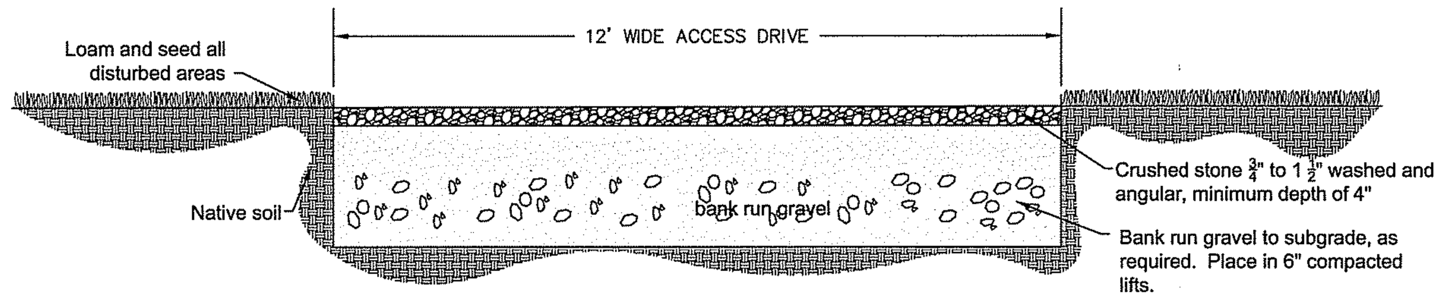
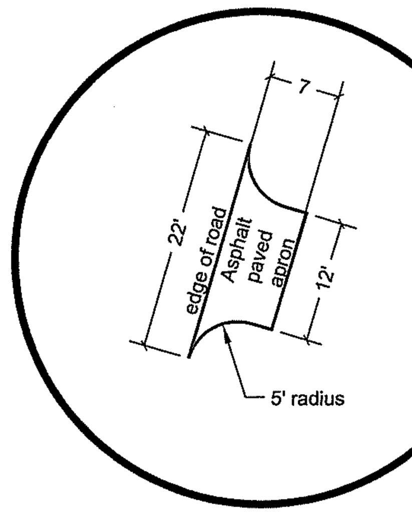


CROSS SECTION GRAVEL ACCESS ROAD DETAIL

NOT TO SCALE

1. Crushed stone shall meet specifications shown herein. Testing results shall be submitted to document the gradation.
2. Site preparations shall include clearing, grubbing, and excavation to design subgrade elevation, stripping topsoils, deleterious debris, and unsuitable material from the site. add bank run gravel compacted in 6" lifts to the design subgrade as necessary.
3. Drive and parking areas shall be excavated to remove topsoil and unsuitables.

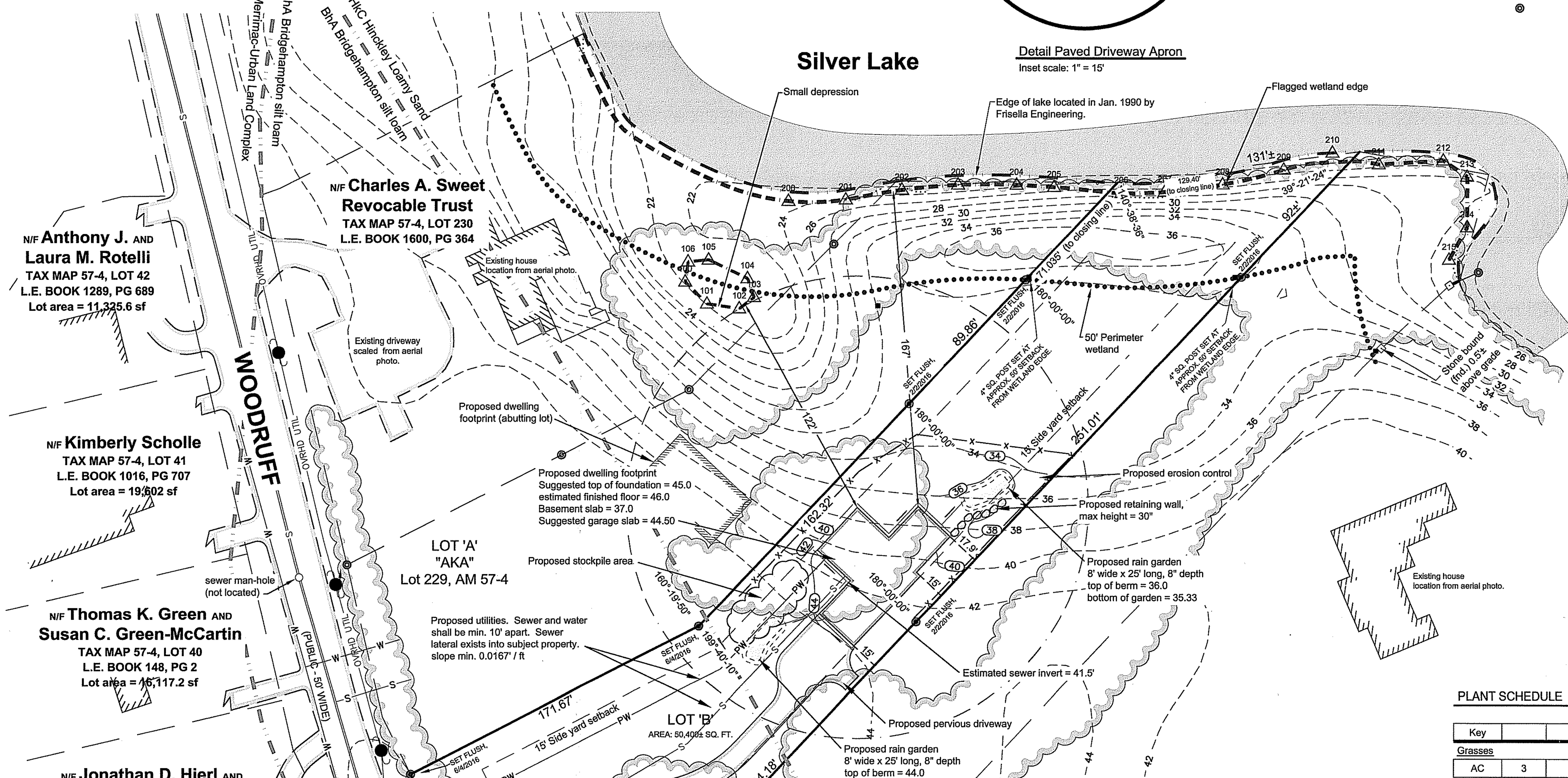


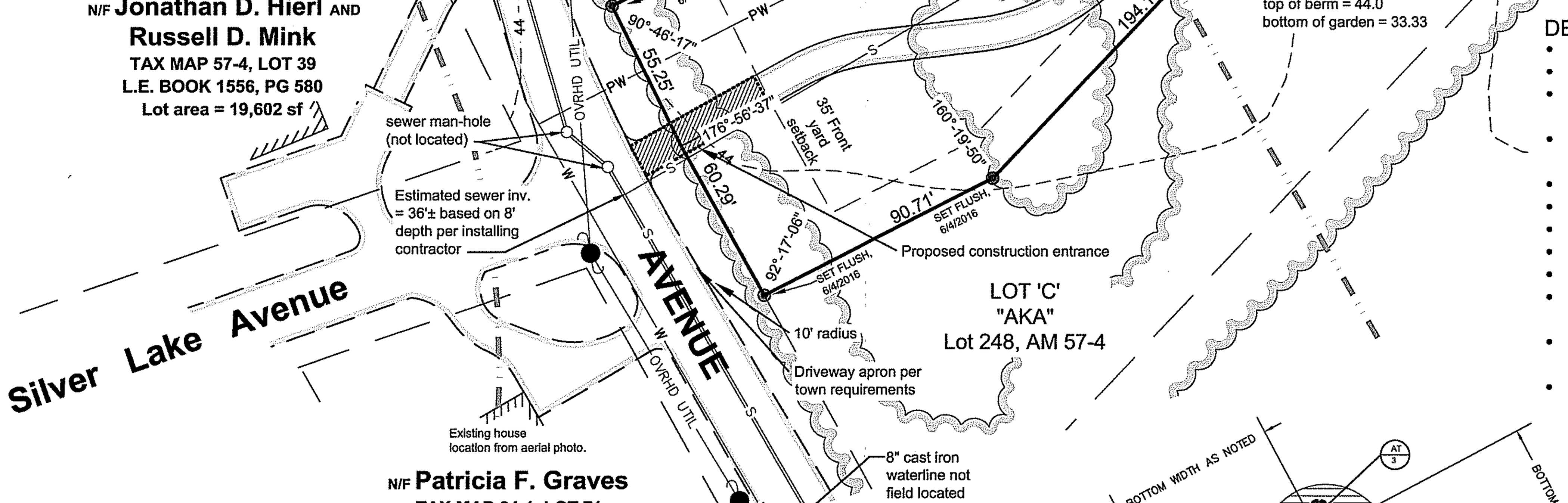
Detail Paved Driveway Apron

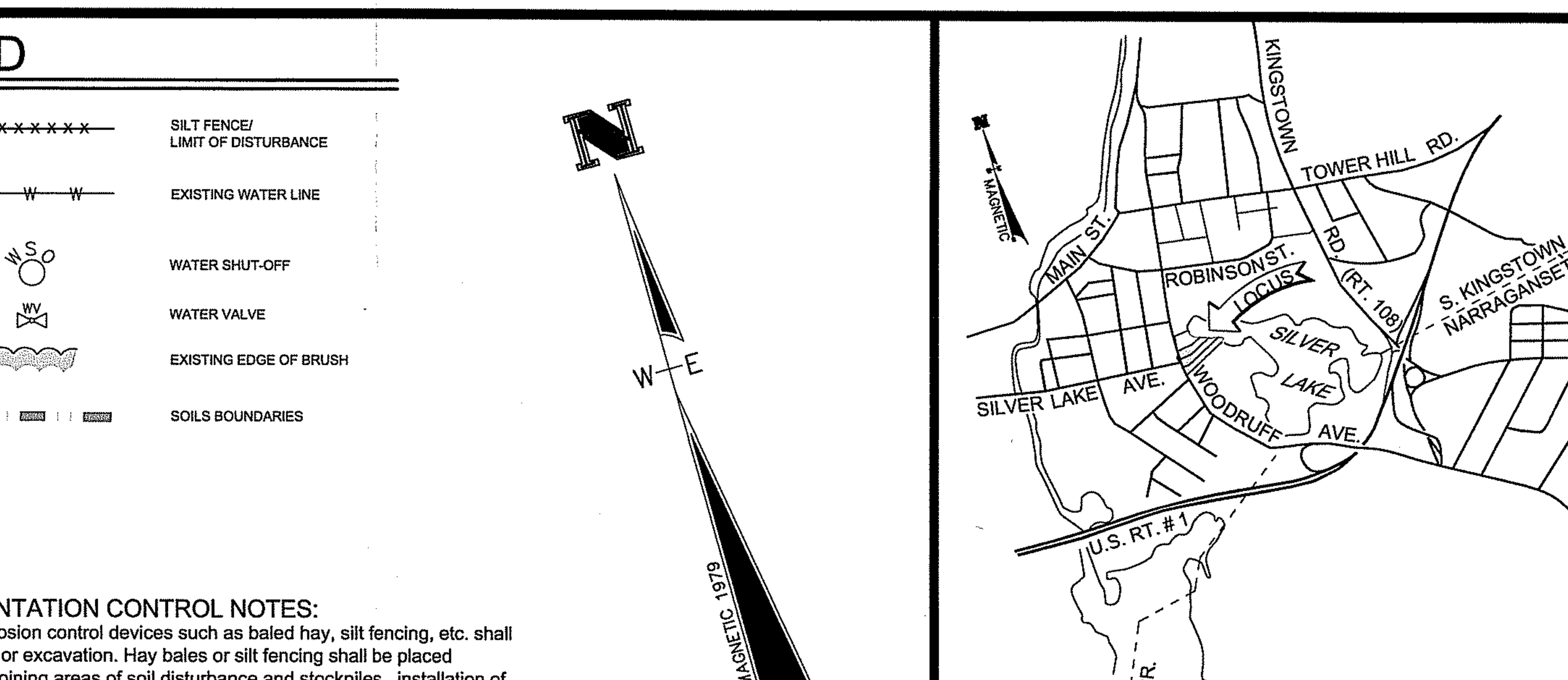
Inset scale: 1" = 15'

LEGEND

Symbol	Description	Symbol	Description
	PROPERTY LINE		SILT FENCE/ LIMIT OF DISTURBANCE
	ZONING SETBACK		EXISTING WATER LINE
	UTILITY POLE		WATER SHUT-OFF
x 97.5	EXISTING SPOT GRADE		WATER VALVE
102	EXISTING CONTOUR		EXISTING EDGE OF BRUSH
	GRANITE BOUND		SOILS BOUNDARIES
	EXISTING SEWER LINE		
	5/8" DIA. EPOXY-COATED REBAR WITH 2" DIA. ALUMINUM CAP SET, DATE SET AND HEIGHT ABOVE GROUND NOTED.		







LOCATION PLAN

SCALE: 1" = 2000'

EROSION AND SEDIMENTATION CONTROL NOTES:

Temporary and/or permanent erosion control devices such as baled hay, silt fencing, etc. shall be installed prior to any clearing or excavation. Hay bales or silt fencing shall be placed immediately down slope and adjoining areas of soil disturbance and stockpiles. installation of all erosion control devices shall be conducted in accordance to detail specifications.

Clearing of existing vegetation shall be done in a controlled manner so as to avoid extensive areas of defoliated terrain subject to erosion. Areas so disturbed shall be brought to final grades and stabilized as soon as possible.

During construction the contractor shall be responsible for maintaining drainage and runoff flow during storms and periods of rainfall.

All erosion control devices shall be inspected and maintained on a regular basis during construction, especially after each rainfall.

Due to changing characteristics of the site caused by and during construction additional erosion control measures may be required as site conditions warrant.

If construction is suspended, all disturbed areas shall be seeded and all necessary erosion control devices shall be in place and in good working order. if seeding is not possible then erosion control mats shall be placed over all disturbed soil.
Erosion control blankets (mats) shall be installed according to the manufacturers recommendations. Erosion control blankets (mats) shall be manufactured by north american green) or approved equivalent and installed according to the manufacturer's recommendations.

All erosion control methods, materials and maintenance shall be done in accordance with the "Rhode Island Soil Erosion and Sediment Control Handbook".

All areas which are disturbed during construction are to be brought to finished grade with at least 6" minimum depth of good quality loam and all soil amendments deemed necessary. The area shall be seeded with a quick germinating grass seed such as uri #2 or approved equivalent.

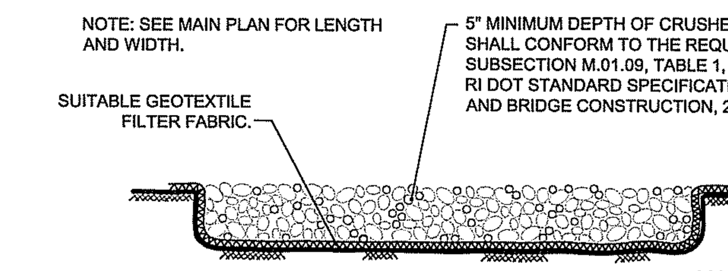
The contractor shall provide for all seeded areas to be watered and in good condition until a good healthy and uniform growth is established over the entire area.

WETLANDS:

Wetland flagging for subject property performed by Applied Bio-Systems, Inc. on January 5, 2017. Flag series 100- 106 depicts an isolated wetland smaller than 1/4 acre in size with no assigned buffer. Flag series 200-215 depicts the average high water line of Silver Lake. A 50-foot printer wetland is assigned to this edge, as noted.

ZONING:

TAX LOT 229
ZONING DISTRICT: R20
MIN. REQUIRED FRONTAGE / LOT WIDTH: 100'
PROVIDED LOT WIDTH: 115.54'
FRONT YARD SETBACK: 35'
SIDE YARD SETBACK: 15'
REAR YARD SETBACK: 35'



1. WIDTH SHALL NOT BE LESS THAN THE FULL WIDTH OF THE RESPECTIVE POINTS OF INGRESS OR EGRESS (12' MINIMUM).
2. THE LENGTH OF CONSTRUCTION ENTRANCE SHALL BE AT LEAST 50 FEET WHERE THE SOILS ARE SANDS OR GRAVELS, EXCEPT WHERE THE TRAVELED LENGTH IS LESS THAN 50 FEET. WHERE SOILS ARE CLAYS OR SILTS, THE LENGTH OF CONSTRUCTION ENTRANCES SHALL BE AT LEAST 100 FEET EXCEPT WHERE THE TRAVELED LENGTH IS LESS THAN 100 FEET

MATERIAL SIZE

SQUARE MESH SIEVE	RIDOT 2" CRUSHED STONE % FINER
2¼"	100
2"	90-100
1½"	30-55
1¼"	0-25
1"	0-5

CONSTRUCTION ENTRANCE SECTION

SCALE: NONE

PLANT SCHEDULE

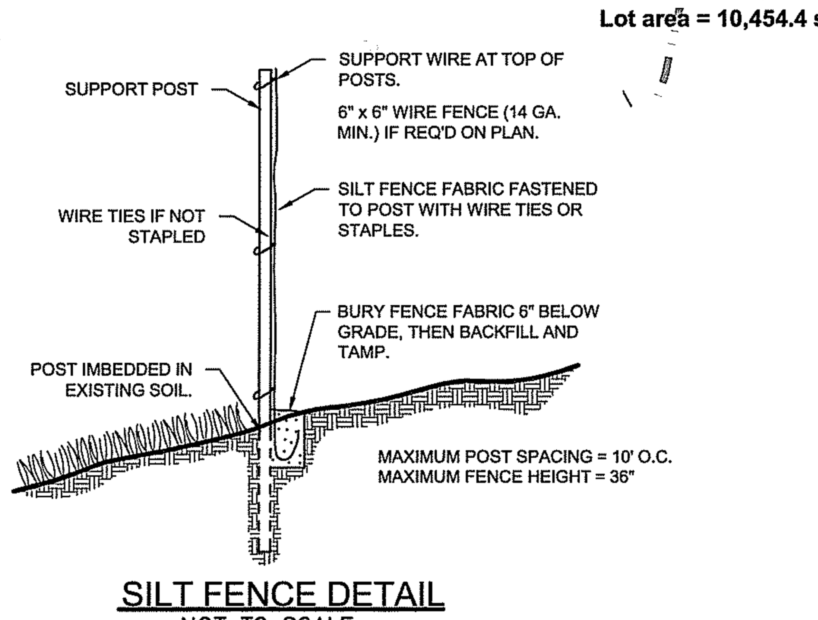
Key		Botanical Name	Common Name	Size	Spacing
Grasses					
AC	3	Carex stricta	Tussock Sedge	#3	3' O.C.
Perennials / ground cover					
AT	6	Asclepias tuberosa	Butterfly milkweed	#3	3' O.C.
As	3	Astilbe sp.	Astilbe	#3	3' O.C.
IV	6	Iris versicolor	Blue flag	#3	3' O.C.
Shrubs					
CA	1	Clethra alnifolia	Sweet pepperbush	# 5	NA

DESIGN CRITERIA:

- 10-Year, 24-hour storm event, total rainfall = 4.9 inches.
- Net increase in impervious area = 2,636 SF
- Existing conditions stormwater runoff in the area of the proposed dwelling =26 cf in 24 hrs.
- Proposed conditions stormwater runoff in the area of the proposed dwelling = 1,024cf in 24 hrs.
- Net increase in runoff: 1,024-26 = 998 cf.
- Stormwater to be directed to rain gardens as noted. 2 total
- Total storage within rain gardens = 354 cf.
- 998- 354 = 644 cf remaining
- Total bottom area of rain gardens = 396 sf.
- Based on an infiltration rate of 2.41 in./ hr for loamy sand and using bottom area only with a 2-hour fill time
- 396sf x 2.41in/hr x 1ft / 12in. = 59 cf / hr = 1,298 cf infiltrated over 22 hours.
- Total volume contained on-site = 354 +1,298 = 1,652 cf

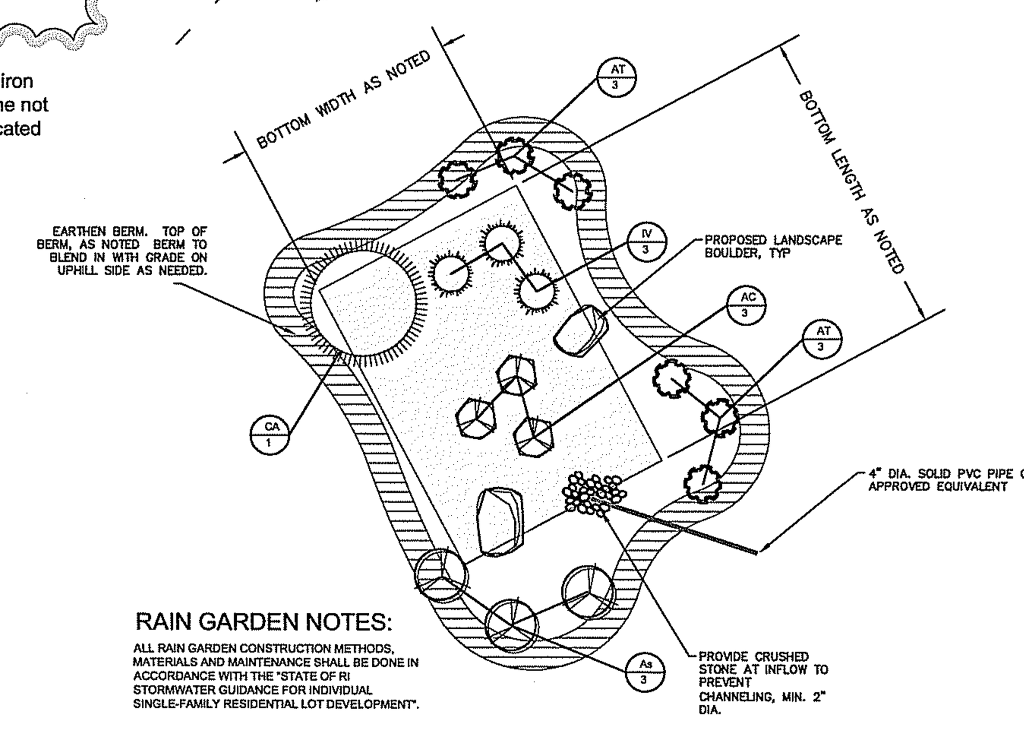
SCALE: 1" = 40'

0' 40' 80' 120' 160'



SILT FENCE DETAIL

NOT TO SCALE

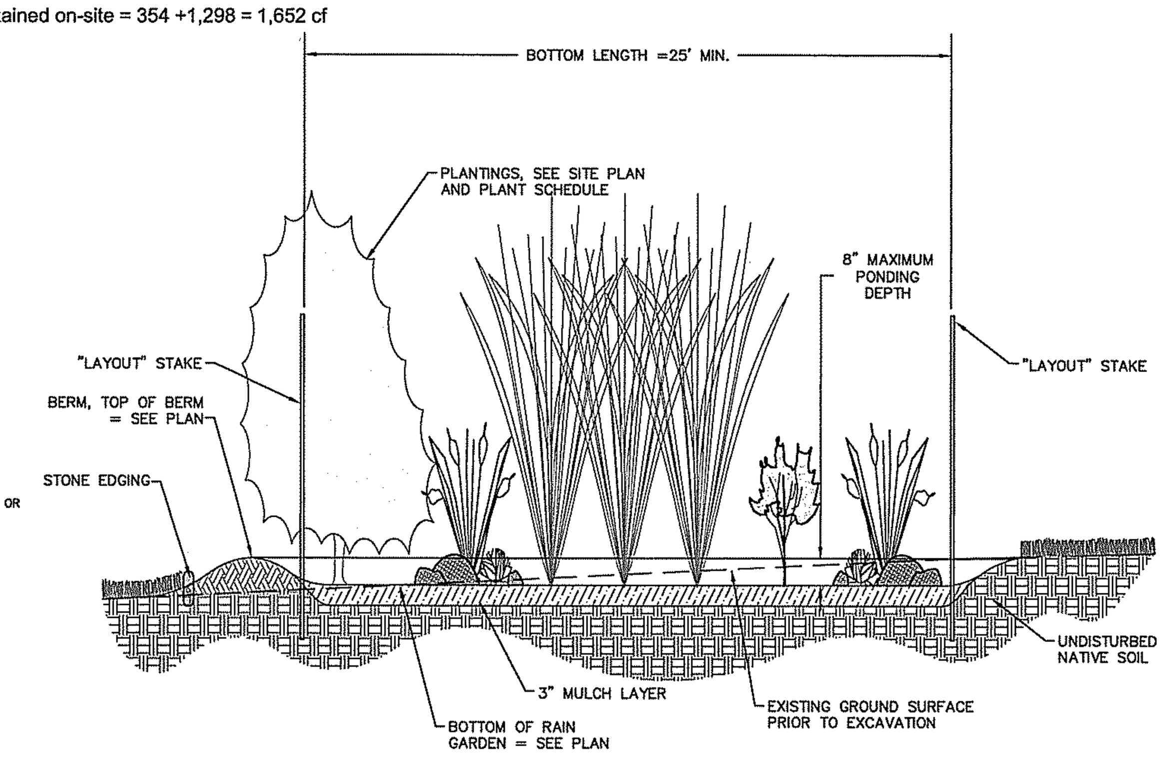


RAIN GARDEN NOTES:

ALL RAIN GARDEN CONSTRUCTION METHODS, MATERIALS AND MAINTENANCE SHALL BE DONE IN ACCORDANCE WITH THE "STATE OF RI STORMWATER GUIDANCE FOR INDIVIDUAL SINGLE-FAMILY RESIDENTIAL LOT DEVELOPMENT".

TYPICAL DETAIL PLAN VIEW OF RAIN GARDEN

NOT TO SCALE



DETAIL RAIN GARDEN, TYPICAL CROSS-SECTION

NOT TO SCALE

CONSTRUCTION NOTE:

Invert of sewer lateral to be determined prior to setting foundation.

REFERENCES:

EXISTING CONTOURS SHOWN ON SITE PLAN TAKEN FROM TOWN OF SOUTH KINGSTOWN RIGIS DATA.

CERTIFICATION

This survey has been conducted on November 21, 2015, February 4, 2016, June 4, 2016 and July 26, 2016 and the plan has been prepared on November 4, 2016 and last revised on August 2, 2016, to substantially conform to Section 9 of the Rules and Regulations adopted on November 25, 2015 by the Rhode Island State Board of Registration for Professional Land Surveyors as follows:

Type of Boundary Survey: Comprehensive Boundary Survey
Measurement Specification: I

Other Type of Survey:
Compilation Survey (for other than boundary survey) - See reference for source of contours. Also, buildings on nearby parcels, treelines, pavements are taken from aerial photos and/or other sources by third parties.

The plan was prepared to show the proposed site development for town permitting.

By: [signature] 1/13/2017
Jeffrey K. Balch, RI Professional Land Surveyor #1839
Certificate of Authorization #A535.

FRISELLA -BALCH & ASSOCIATES
LAND SURVEYORS
33 NORTH RD. SUITE C-201 PEACE DALE, RI
PHONE (401) 783-5949 FAX (401) 783-5997
www.frisella.com

JAN 17 2017

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO.: 17-0008
DATED FEB 21 2017

NO.	DATE	DESCRIPTION	BY
2.	1/11/2017	Added wetland flagging.	jk
1.	11/14/2016	Edits to water service and sewer lateral locations per town.	jk

DRAWING TITLED:
Proposed Site Development

LOCATED ON:
Lot "B" of the "Ruth W. Sweet Family Trust Plat"
(Lot 247 of Tax Assessor's Map 57-4)

OWNED BY:
Greg & Linda Sweet

RECEIVED
JAN 17 2017
Department of Environmental Management
Permit Application Center

ADDRESS:
Woodruff Avenue
IN THE TOWN OF **South Kingstown, R.I.**

November 4, 2016

DESIGNED BY: JEFFREY K. BALCH, P.L.S.

SCALE: 1" = 40'

DRAWN BY: JK | CHECKED BY: JKB

DRAWING No. SHEET 1 OF 1

JEFFREY K. BALCH
STATE OF RHODE ISLAND
No. 1839
HOPE
PROFESSIONAL LAND SURVEYOR

© JANUARY 2016 JEFFREY K. BALCH

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