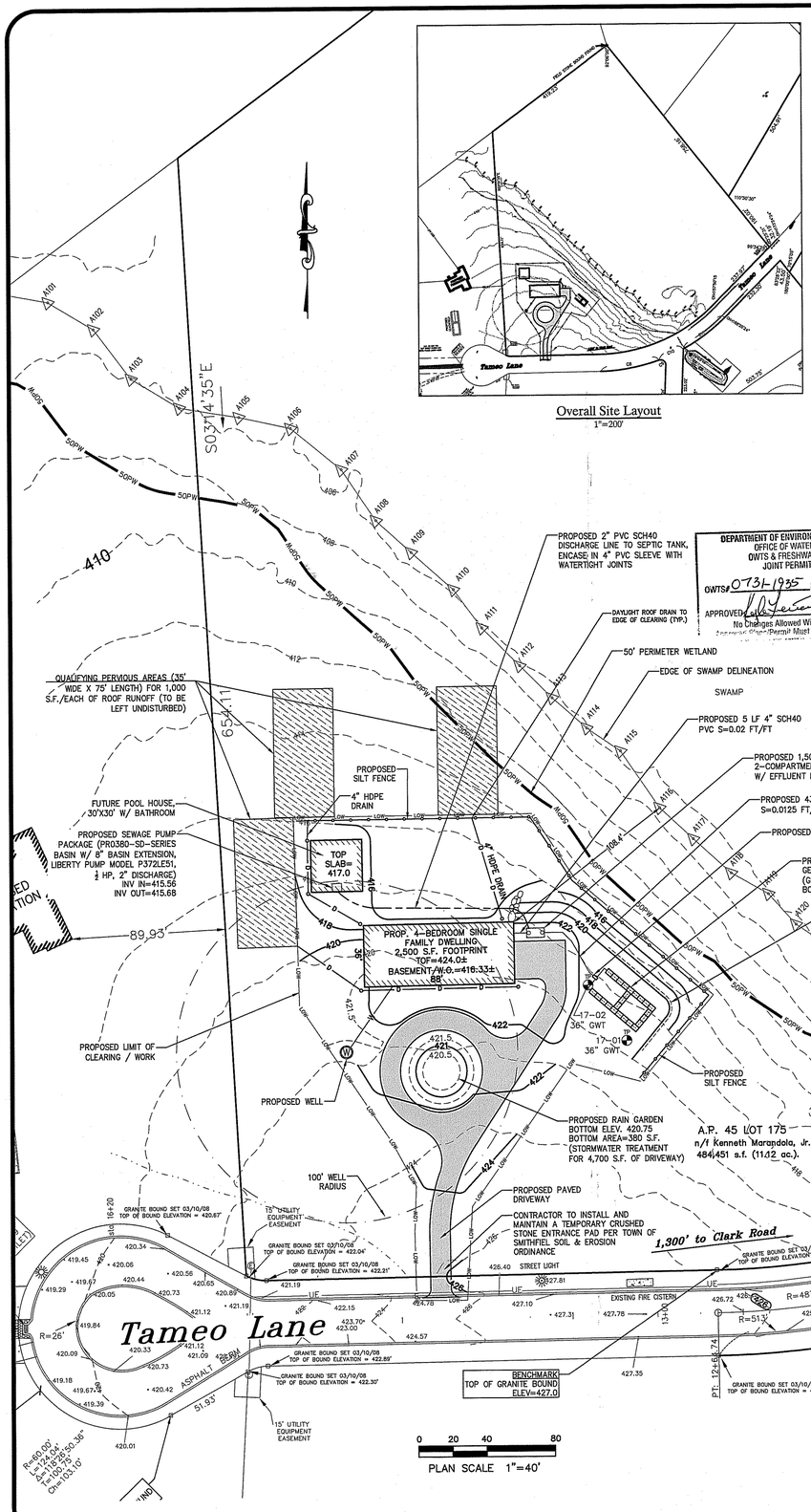


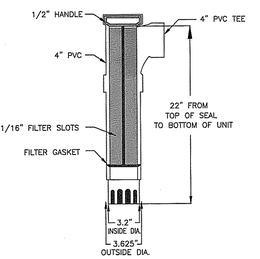
Overall Site Layout
1"=200'

DEPARTMENT of ENVIRONMENTAL MANAGEMENT
OFFICE of WATER RESOURCES
OWTS & FRESHWATER WETLANDS
JOINT PERMIT APPROVAL

OWTS# 0731-1935 FWW# 18-0010

APPROVED _____ DATE 3/22/18

No Changes Allowed Without RIDEM Approval
Approved Plans/Permit Must Be Kept at Construction Site



CROSS SECTION VIEW

ZABEL A1800 EFFLUENT FILTER
NOT TO SCALE

LEGEND & SYMBOLS

EXISTING
- CONTOUR
- TEST HOLE
- FLAGGED WETLAND EDGE (B-22)
- 50' PERIMETER WETLAND

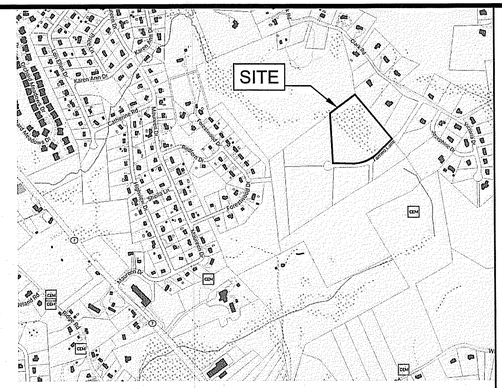
PROPOSED
- CONTOUR
- SPOT ELEVATION
- DRAIN PIPE
- T.O.F. TOP OF FOUNDATION
- SLAB TOP OF BASEMENT SLAB
- LOW LIMIT OF WORK
- SILT FENCE

LEACHFIELD DESIGN CALCULATION

- 4 BEDROOMS X 115 GALLONS PER BED/DAY = 460 GALLONS PER DAY
- SOIL CATEGORY 6m = 0.70 GAL/S.F./DAY
- 460 GPD / 0.70 GAL/S.F./DAY = 658 S.F. LEACHING AREA REQUIRED
- 658 S.F. / 28 S.F. PER ELJEN UNIT = 24 ELJENS REQ'D
- TOTAL AREA PROVIDED = 672 S.F. > 658 S.F.

INVERT SCHEDULE

BUILDING SEWER	420.85
SEPTIC TANK IN	420.75
SEPTIC TANK OUT	420.50
D-BOX IN	419.92
D-BOX OUT	419.75
LEACHFIELD INVERT	419.58
BOTTOM OF ELJEN	419.00
BOTTOM OF SAND	418.50
LEACHFIELD STRIP	416.50
SEASONAL HIGH GWT	416.00 (AT LEACHFIELD)
LEDGE/BEDROCK	NONE AT 6' DEPTH



LOCUS MAP

General Notes:

1. THE SURVEY, EXISTING CONDITIONS, AND TOPOGRAPHY SHOWN ON THIS PLAN WAS PROVIDED BY MARSH AND LONG SURVEYING, INC OF 450 GEORGE WASHINGTON HIGHWAY, SMITHFIELD, RI.
2. THE CONTRACTOR SHALL NOTIFY DIG-SAFE 72 HOURS PRIOR TO START OF CONSTRUCTION.
3. PROPER EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO EARTH DISTURBING ACTIVITIES. THIS SHALL INCLUDE SILT FENCE OR HAYBALES AT ALL DOWN GRADIENT AREAS, INLET PROTECTION OF CATCH BASINS, AND CONSTRUCTION ENTRANCE.
4. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH TOWN OF SMITHFIELD AND RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.
5. REFERENCE RIDEM WETLANDS FILE NO. 04-0314 (EDGE VERIFICATION) AND 05-0309 (PERMIT TO ALTER FRESHWATER WETLANDS – COMET FARMS).
6. REFERENCE RIDEM OWTS FILE NO. 0731-1935.

Zoning Information

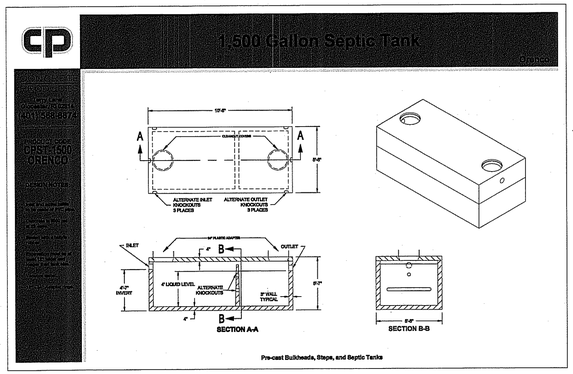
ZONE DESIGNATION	R-80
MINIMUM LOT SIZE	80,000 S.F.
MINIMUM LOT WIDTH	200 FT.
MAX. LOT COVERAGE	25%
MAX. BLDG. HEIGHT	39 FT. (+20' FOR ACCESSORY)

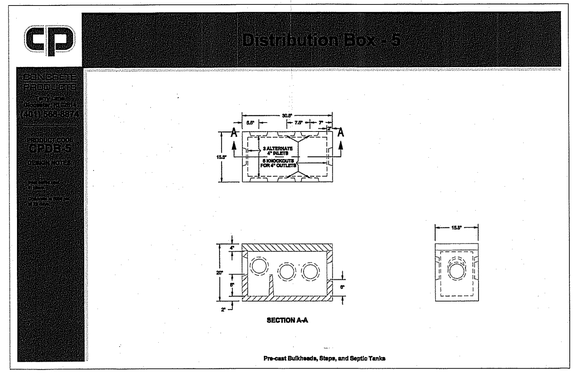
Building Setbacks

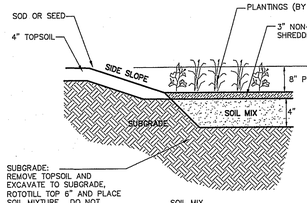
FRONT SETBACK	40'
REAR SETBACK	25'
SIDE SETBACK	75'

OnSite Wastewater Treatment System Notes

1. ALL DESIGN, CONSTRUCTION, AND MAINTENANCE REQUIREMENTS, WHETHER NOTED HEREON OR NOT, SHALL BE IN CONFORMANCE WITH RULES AND REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ONSITE WASTEWATER TREATMENT SYSTEMS", JUNE 27, 2016 AND ALL AMENDMENTS, BY THE RHODE ISLAND DEPT. OF ENVIRONMENTAL MANAGEMENT.
2. STRIP LEACHING AREA AND EXCAVATE DOWN TO ELEVATION 416.50 OR AS REQUIRED TO STRIP ALL FINES AT TRENCH LOCATIONS ONLY (IF SOILS ALLOW).
3. OVER-EXCAVATE ALL UNSUITBALE SOILS AND REPLACE WITH GRAVEL AS SPECIFIED IN RIDEM REGULATIONS.
4. INSTALLER MUST ASSURE THAT BOTTOM AND SIDES OF EXCAVATION FOR THE LEACHFIELD ARE NOT COMPACTED OR SMEARED.
5. ALL TREES, STUMPS, AND BRUSH SHALL BE REMOVED WITHIN 10 FEET OF THE SYSTEM.
6. MAINTAIN INVERT ELEVATION OF 419.58 FOR 10 FEET AROUND SYSTEM.
7. THERE ARE NO KNOWN PRIVATE WELLS OR DRAINS EXIST. OR PROPOSED LOCATED WITHIN 200 FEET OF THE OWTS EXCEPT AS SHOWN AND NO KNOWN PUBLIC WELLS (EXIST. & PROP.) LOCATED WITHIN 500 FEET OF THE PROPOSED OWTS.
8. THERE ARE NO KNOWN SUBSURFACE DRAINS, EXISTING OR PROPOSED, WITHIN 50 FEET OF THE PROPOSED OWTS.
9. ALL PVC PIPE SHALL BE 4" DIA. SDR 35 OR EQUIVALENT, UNLESS NOTED OTHERWISE.
10. THE SEPTIC TANK SHALL HAVE TEES ON BOTH THE INLET AND OUTLET AND SHALL BE A TWO (2) COMPARTMENT TANK WITH THE 1ST COMPARTMENT CONSISTING OF ⅔ TANK CAPACITY.
11. THE DISTRIBUTION BOX SHALL HAVE A MINIMUM BOTTOM AREA OF 3 SQUARE FEET.
12. NO VEHICULAR TRAFFIC IS ALLOWED OVER THE LEACHFIELD.
13. THE INSTALLER SHALL CONTACT THE DESIGN OF RECORD AT LEAST 24 HOURS PRIOR TO START OF CONSTRUCTION.





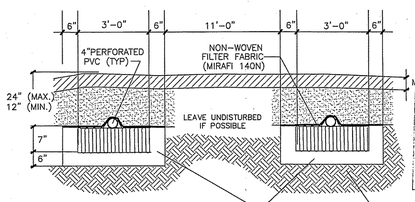


RAIN GARDEN
NOT TO SCALE

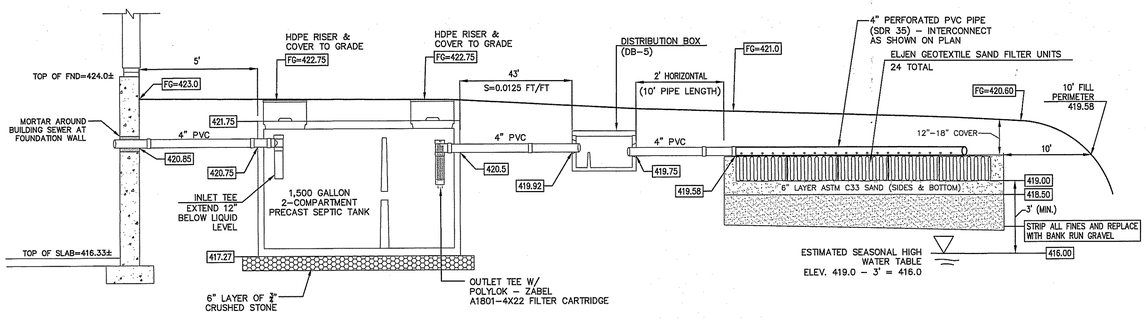
Rain Garden Plantings (Example Only):

LATIN NAME	COMMON NAME	SIZE	SPACING
GRASSES / PERENNIALS			
FESTUCA OVINE GLAUCA	BLUE FESCUE	1 GAL	18" O.C.
PANICUM VIRGATUM	SWITCHGRASS	1 GAL	18" O.C.
PENNISETUM ALOPCUROIDES	FOUNTAIN GRASS	1 GAL	18" O.C.
RUDBECKIA HIRTA	BLACK EYED SUSAN	1 GAL	18" O.C.
SHRUBS			
CEPHALANTHUS OCCIDENTALIS	COMMON BUTTONBUSH		
COMPTONIA PEREGRINA	SWEET FERN		
LEDUM GROENLANDICUM	LABRADOR TEA		
PHOTINIA MELANOCARPA	BLACK CHOKEBERRY		

• FINAL PLANTINGS TO BE CHOSEN AND INSTALLED BY OWNER OR OWNER REPRESENTATIVE. REFERENCE THE RHODE ISLAND COASTAL PLANT GUIDE AT www.uri.edu/cels/ceoe/coastalPlants/CoastalPlantGuide.



ELJEN GEOTEXTILE SAND FILTER (GSF)
CROSS SECTION
NOT TO SCALE



On-Site Wastewater Treatment System Profile
NOT TO SCALE

RECEIVED
Department of Environmental Management
FEB 20 2018
OFFICE OF WATER RESOURCES

Advanced Civil Design, Inc.
CIVIL ENGINEERS
88 PEEPTOAD ROAD
SCITUATE, RI 02857
PH: (401) 473-4404

NO.	DATE	REVISION
1	2/16/18	ADDRESS RIDEM OWTS COMMENTS

PROJECT:
ON-SITE WASTEWATER TREATMENT SYSTEM PLAN & DETAILS
A.P. 45 LOT 175
9 TAMEO LANE
SMITHFIELD, RI

OWNER/APPLICANT:
Ken Maradola, Jr.
1 Waterman Avenue, Unit R
North Providence, RI 02911

DATE: 12/30/2017	DESIGNED BY: C.S.R.
SCALE: 1"=40'	CHECKED BY: C.S.R.

CURTIS S. RUOTOLO 2/16/2018
No. 8756
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

DRAWING NO.
1