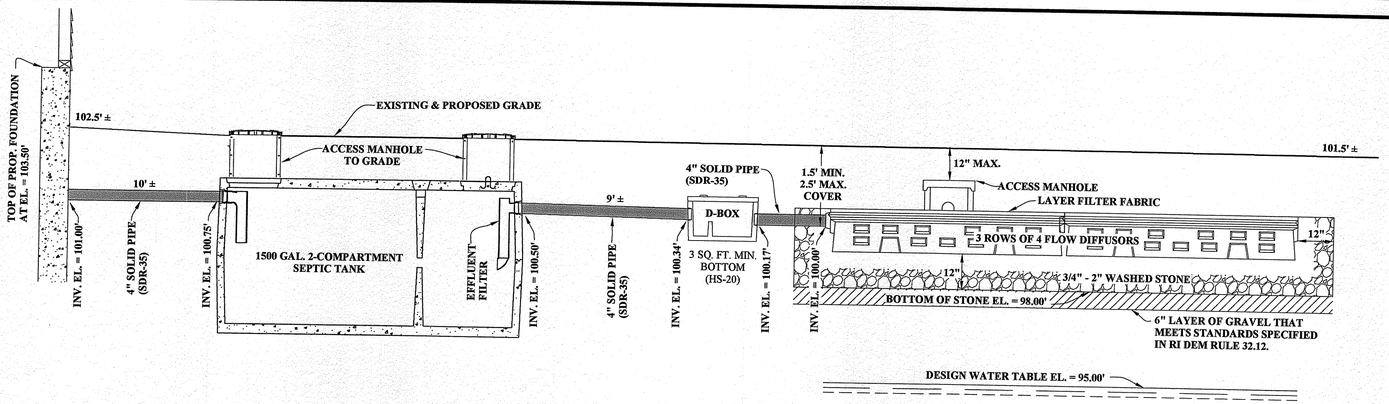
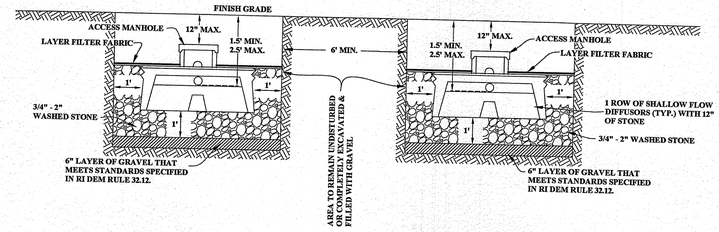
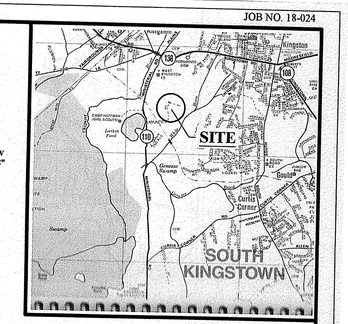
JOB NO. 18-024



SECTION THRU CENTERLINE OF SYSTEM

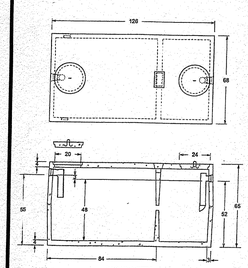


SECTION THRU LEACHFIELD



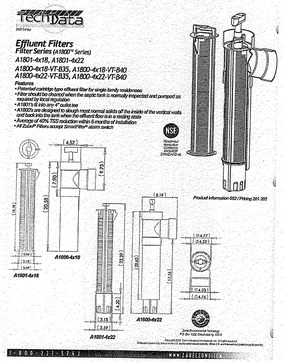
LOCATION MAP

1500 GALLON TWO COMPARTMENT SEPTIC TANK

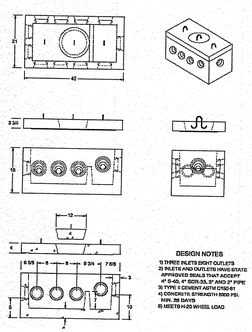


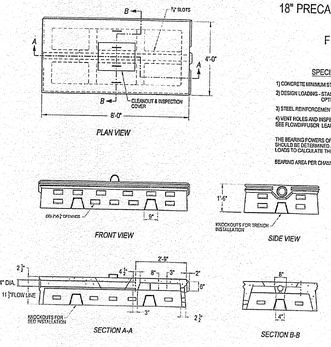
DESIGN NOTES

1) ALL JOINTS SEALED WITH BUTYL RUBBER SEALANT.
2) ALL INLETS AND OUTLETS HAVE STATE-APPROVED SEALS.
3) AVAILABLE WITH 8" TOP
4) MEETS ASTM C 1227-97a
5) CONCRETE STRENGTH 5000 PSI. MIN. 28 DAYS



11 HOLE "D" BOX





18" PRECAST LEACHING CHAMBER
FD 4x8 - L
FLOWDIFFUSOR®

SPECIFICATIONS

1) CONCRETE MINIMUM STRENGTH - 4,000 PSI @ 28 DAYS.
2) DESIGN LOADING - STANDARD UNITS: 600 P.S.F. OPTIONAL UNITS: AASHO H20-44
3) STEEL REINFORCEMENT - ASTM A 615-75, GRADE 60.
4) VENT HOLES AND INSPECTION MANHOLES - OPTIONAL. SEE FLOWDIFFUSOR LEACHING CHAMBER BROCHURE.

THE BEARING POWERS OF SOIL SUPPORTING ANY STRUCTURE SHOULD BE DETERMINED AND EQUATED TO THE APPLIED LOADS TO CALCULATE THE BEARING AREA REQUIRED.

BEARING AREA PER CHAMBER: 4.16 S.F.

DESIGN NOTES

1) THREE INLETS (EIGHT OUTLETS
2) INLETS AND OUTLETS HAVE STATE-APPROVED SEALS THAT ADDERT
4" S-45, 4" SDR-35, 3" AND 2" PIPE
3) TYPE II CEMENT ASTM C150-91
4) CONCRETE STRENGTH 5000 PSI. MIN. 28 DAYS
5) MEETS H-20 WHEEL LOAD

OWTS NOTES

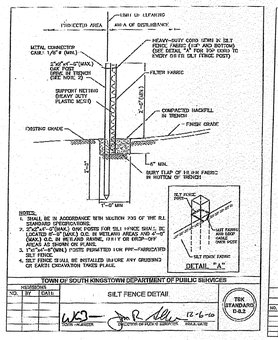
1. ASSESSOR'S MAP 30 LOT 19. LOT 3 OF WHITE HORN ACRES SUBDIVISION.
2. LOT AREA = 5.487 AC.
3. 5 BEDROOM DESIGN - FULL FOUNDATION.
4. 1500 GALLON 2-COMPARTMENT SEPTIC TANK WITH EFFLUENT FILTER.
5. THE CONSTRUCTION AREA IS NOT LOCATED IN A FLOOD ZONE AS DESIGNATED ON THE FEMA FLOOD MAPS. THE SOUTHEASTERLY CORNER OF THE PARCEL IS LOCATED IN AN "A" ZONE. SEE COMMUNITY PANEL NO. 44009C0185H.
6. THIS PARCEL IS NOT LOCATED WITHIN RI CRMC JURISDICTION.
7. THIS PARCEL IS NOT LOCATED IN A CRITICAL RESOURCE AREA AS DEFINED BY THE OWTS SECTION RULES AND REGULATIONS.
8. THERE ARE NO TRIBUTARIES, STORMWATER STRUCTURES, OR SUB-SURFACE DRAINS WITHIN 200 FT. OF THE PROPOSED OWTS OTHER THAN THOSE SHOWN HEREON.
9. THERE ARE NO OTHER EXISTING PRIVATE DRINKING WELLS OR KNOWN PROPOSED PRIVATE DRINKING WELLS WITHIN 200 FT. OF THE PROPOSED LEACHFIELD ON THE DATE OF SUBMITTAL OF THIS APPLICATION.
10. THERE ARE NO OTHER EXISTING OR KNOWN PROPOSED NON-POTABLE WELLS WITHIN 100 FEET OF THE PROPOSED LEACHFIELD ON THE DATE OF SUBMITTAL OF THIS APPLICATION.
11. THERE ARE NO EXISTING OR PROPOSED PUBLIC WELLS WITHIN 500' OF THE PROPOSED OWTS OTHER THAN THOSE SHOWN HEREON ON THE DATE OF SUBMITTAL OF THIS APPLICATION.
12. THE PROPOSED WELL DOES NOT NEED A VARIANCE FROM THE WELL DRILLING REGULATIONS.
13. THERE ARE NO OTHER EXISTING OWTS OR KNOWN PROPOSED OWTS WITHIN 200 FT. OF THE PROPOSED WELL ON THE DATE OF SUBMITAL OF THIS APPLICATION.
14. THERE ARE NO DRINKING WATER LINES WITHIN 50 FT. OF THE PROPOSED OWTS OTHER THAN THOSE SHOWN HEREON
15. THERE ARE NO SUB-DRAINS WITHIN 50 FT. OF THE PROPOSED LEACHING AREA.
16. THERE ARE NO WATERCOURSES OR WETLANDS WITHIN 200 FT. OF THE PROPOSED OWTS OTHER THAN THOSE SHOWN HEREON.
17. THERE ARE NO EXISTING OR KNOWN PROPOSED PUBLIC WASTEWATER SYSTEM LINES WITHIN 200 FT. OF THE AS SHOWN PROPERTY LINES ON THE DATE OF SUBMITAL OF THIS APPLICATION.
18. THERE ARE NO STRUCTURES, EXISTING OWTS OR WATER SUPPLIES WITHIN 100 FT. OF THE ADJACENT PROPERTY LINES OTHER THAN THOSE SHOWN HEREON.
19. THE SAME ELEVATION OF THE INVERT OF THE LEACHING DISTRIBUTION LINES SHALL BE MAINTAINED FOR A 10 FT. PERIMETER FROM THE EDGES OF THE LEACHING ZONE. THE ADJACENT SIDE SLOPES SHALL NOT BE STEEPER THAN 3:1 FOR A 25 FOOT PERIMETER.
20. CLEAR AND REMOVE ALL TREES AND BRUSH TO A 10 FT. PERIMETER OF THE LEACHING AREA.
21. PROPER EROSION AND SEDIMENT CONTROL PRACTICES MUST BE IMPLEMENTED DURING ALL PHASES OF CONSTRUCTION AND UNTIL THE SITE IS SATISFACTORILY STABILIZED. ALL CONTROL PRACTICES SHOULD BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE RI SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.

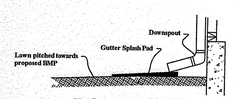
SYSTEM COMPUTATIONS:

TOTAL DAILY FLOW
5 BEDROOM x 115 Gal/Day = **575 Gal/Day**

REQUIRED TANKAGE
Per Rule 26.1 - Min. Septic Tank Size = 15000 Gal.
Use 1500 Gal, Two Compartment Septic Tank

REQUIRED LEACHING AREA
Use Class 1 Soil Rate = 0.70 Gal/Sq.Ft./Day
575 Gal/Day / 0.70 Gal/Sq.Ft./Day = 821 Sq.Ft.
Use 3 rows of 4 Flow Difussors: 3 x 284 Sq.Ft. = 852 Sq.Ft.



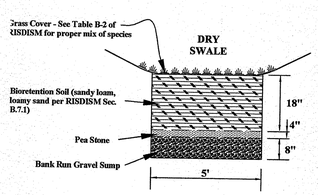


DOWNSPOUT SPLASH PAD TYPICAL

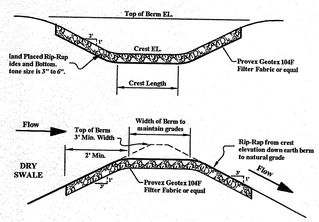
DRY SWALE ELEVATIONS

DRY SWALE # 1
Top of Berm El. = 101.0'
Bottom of Swale El. = 99.5'
Crest of Overflow Weir = 100.5'
Weir Crest Length = 2'

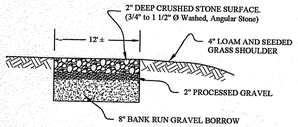
DRY SWALE # 2
Top of Berm El. = 101.5'
Bottom of Swale El. = 100.0'
Crest of Overflow Weir = 101.0'
Weir Crest Length = 2'



DRY SWALE TYPICAL



OVER FLOW WEIR TYPICAL



TYPICAL DRIVEWAY

SERSC NOTES

1. PROPER EROSION AND SEDIMENT CONTROL PRACTICES MUST BE IMPLEMENTED DURING ALL PHASES OF CONSTRUCTION AND UNTIL THE SITE IS SATISFACTORILY STABILIZED. ALL CONTROL PRACTICES SHOULD BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE RI SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.
2. SEE SOIL EROSION & SEDIMENT CONTROL REPORT AND STORMWATER CALCULATION REPORT PREPARED BY JACKSON SURVEYING, INC.

JACKSON SURVEYING, Inc.
SURVEYING & ENGINEERING
P.O. BOX 454 CHARLESTOWN, RI 02813 PH. (401) 364-3130

JOB NO. 18-024

CHAREE M. JACKSON
No. 9600
REGISTERED PROFESSIONAL ENGINEER CIVIL

CHAREE MORAN JACKSON
No. 2543
PROFESSIONAL LAND SURVEYOR

SURVEY CERTIFICATION:
This survey has been conducted and the plan has been prepared pursuant to 435-RICR-00-00-1.9 of the rules and regulations adopted by the Rhode Island State Board of Registration for professional land surveyors on November 25, 2015 as follows:

LIMITED CONTENT BOUNDARY SURVEY: CLASS I
DATA ACCUMULATION SURVEY: CLASS III
TOPOGRAPHIC SURVEY ACCURACY: T-2

The purpose for the conduct of the survey and for the preparation of the plan is as follows: To produce an OWTS plan with existing & proposed conditions and show the location of proposed septic for building permit submittal.

Charee M. Jackson 2/26/24
Charee M. Jackson , PLS Date
RI PLS NO. 2543 RI Certificate of Authorization NO. A235

SITE PLAN FOR ONSITE WASTEWATER TREATMENT SYSTEM & RI DEM FRESHWATER WETLAND PERMIT

Lot 19 of A.P. 30

IN THE TOWN OF
SOUTH KINGSTOWN, RI
OWNER & APPLICANTS
THE MYRTH YORK TRUST - 1986
Myrth York & David Green, Co-trustees
FEBRUARY 2024
SCALE : 1" = 40'

SHEET 1 OF 1

RI Environmental Management
MAR 15 2024
Water Resources