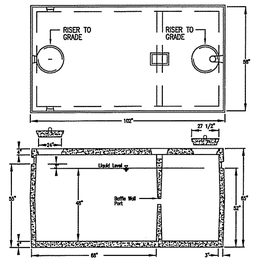
Precast Septic Tank, 1000 Gallon 2 Compartment (5.1 Tons)

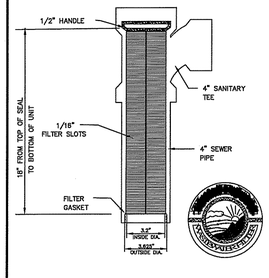
JOLLEY PRECAST OR EQUAL



DESIGN NOTES
1. ALL JOINTS SEALED WITH BUTYL RUBBER SEALANT
2. ALL INLETS AND OUTLETS HAVE STATE APPROVED SEALS
3. AVAILABLE WITH 8" HEAVY DUTY TOP
4. MEETS ASTM C-1227-97A
5. CONCRETE STRENGTH 5000 PSI MIN. 28 DAYS
6. CSI SPECIFICATIONS

GWT = 269.00
BOTTOM OF TANK = 270.16
BUOYANT EFFECT =0
THERE IS NO BUOYANT FORCE ON TANK

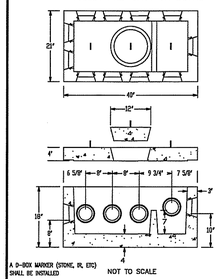
Zabel A1800 Residential SepticTank Effluent Filter



NOTE: TO BE INSTALLED AT THE OUTLET TEE, WITH A MANHOLE SET TO FINISH GRADE FOR ACCESS.

Precast Distribution Box DB-11

JOLLEY PRE-CAST OR EQUAL



A D-BOX MARKER (STONE, IR, ETC) SHALL BE INSTALLED

NOT TO SCALE

DESIGN NOTES
1. CONCRETE MIN. STRENGTH = 5,000 P.S.I. @ 28 DAYS
2. STEEL REINFORCEMENT-ASTM A-615 GRADE 60, 1" MIN.COVER

Design Calculations

1. DESIGN FLOW = 3 BEDROOMS (BR) HOME X 115 GAL/BR = 345 GALLONS/DAY
2. DESIGN LOADING RATE = 0.61 GAL/SF/DAY
   DESIGN GWT = 6'0"
   DESIGN DEPTH TO IMPERVIOUS = 6'6"L
3. MINIMUM LEACHING AREA= 345 GAL/DAY ÷ 0.61 GAL/SF/DAY = 566 S.F.
4. ELJEN IN DRAINS = 28 S.F./4'L x 3'W UNIT (7.0 S.F/L.F.)
   566 S.F. ÷ 28 S.F/UNIT = 20.2 UNITS
   ELJEN UNITS PROVIDED = 21
5. LEACHING AREA = 2 LINES 32 & 28 L.F. LONG
   2 INTERCONNECTIONS @ 12+ L.F. EA.
6. LEACHING AREA PROVIDED= 588 S.F.

Soil Testing

R.I.D.E.M. DIVISION OF OWTS APPROVAL
1. SITE SUITABILITY NO. S33-134 DATE: 8/21/06
2. SITE TESTING DATE OF EXCAVATION 4/22/08

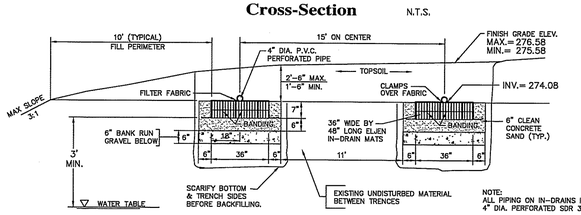
TH 08-1

SOIL STRATA:	SOIL CATEGORY:
A 0-2" 10YR 3/3 fsl 1-sbk vfr	4
Bw 2-27" 10YR 4/6 sl 1-sbk fri	3
BC 27-35" 10YR 5/6 sl 1-sbk fri	3
C 35-84" 2.5Y 5/4 ls 0-m fri	6*
R 84"	

*LOADING RATE=0.61 GAL/SF/DAY

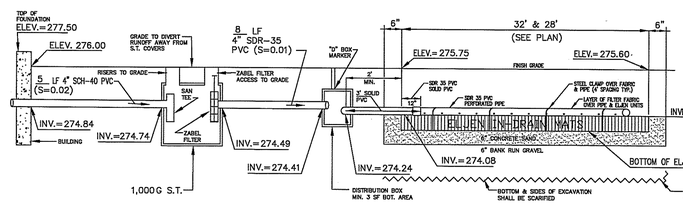
Cross-Section

N.T.S.

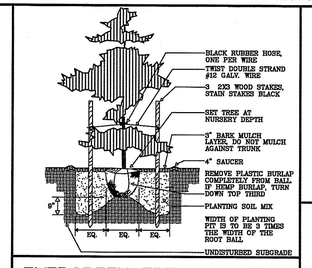


Treatment System Profile

N.T.S.

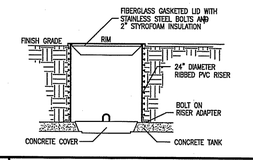


WATER TABLE ELEVATION @ OR BELOW 269.00, IMPERVIOUS LAYER ELEVATION @ OR BELOW 268.50



EVERGREEN TREE PLANTING

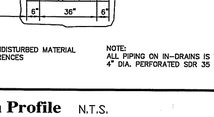
Treatment Tank Riser & Cover Detail



Legend

⊕	SOIL EVALUATION
□	CATCH BASIN
40	EXISTING CONTOUR
40	PROPOSED CONTOUR
40x50	PROPOSED GRADING
40x50	EXISTING GRADE
W	WATER SERVICE LINE
	DRAINAGE LINE
△	BENCHMARK
Ⓦ	WELL

Erosion Control



INSTALLATION :
1. DIG TRENCH 6" DEEP.
2. SET FENCE POST 10' APART MAX. AT SLIGHT ANGLE TOWARD RUNOFF DIRECTION.
3. ATTACH GEOFAB TO POST.
4. LOWER 6" OF GEOFAB IN TRENCH CURLED TOWARD RUNOFF DIRECTION & BACKFILL.
5. FENCE TO BE INSTALLED AS INDICATED ON THE SITE PLAN OR AS DIRECTED BY THE ENGINEER.

Minimum Lot Requirements

MIN. LOT AREA	20,000	SQ.FT.
FRONTAGE	125	FT.
FRONT YARD	30	FT.
SIDE YARD	15	FT.
REAR YARD	30	FT.

General Notes

1. THE ENTIRE SITE IS LOCATED WITHIN FLOOD ZONE "C" AS PER (F.E.M.A.) COMMUNITY PANEL NO.445396-0005 13, CITY OF CRANSTON, DATED NOVEMBER 1, 1984.
2. DIPRETE ENGINEERING ASSOC., INC. CERTIFIES TO THE SOIL CONDITIONS AND PERC RATE ONLY IN AREA TESTED. INSTALLER TO NOTIFY DESIGNER IF SOIL CONDITIONS ARE FOUND DIFFERENT THAN STATED ON OWTS APPLICATION.
3. PROPERTY BOUNDARY LINE SURVEY BY DIPRETE ENGINEERING ASSOC.,INC. AND IS CONSIDERED PRELIMINARY AT THIS TIME. TOPOGRAPHY OBTAINED FROM DIPRETE ENGINEERING ASSOC. INC., CRANSTON, RI . DATUM IS ASSUMED:
4. NO DRAINS OR WATERLINES TO BE INSTALLED WITHIN 25' OF LEACHING AREA.
5. NO GARBAGE GRINDERS SHALL BE INSTALLED.
6. THERE ARE NO EXISTING OR PROPOSED WELLS WITHIN 200' OF THE PROPOSED SYSTEM.
7. THERE ARE NO KNOWN EXISTING OR PROPOSED DRAINS WITHIN 200 FEET OF THE PROPOSED SYSTEM OTHER THAN SHOWN.
8. THERE ARE NO EXISTING OR PROPOSED SYSTEMS WITHIN 100' OF A PROPOSED OR EXIST. WELL.
9. THERE ARE NO PROPOSED OR EXISTING PUBLIC WELLS WITHIN 500' OF THE PROPOSED SYSTEM.
10. THIS PLAN IS SUBSTANTIALLY CORRECT IN ACCORDANCE WITH A CLASS IV STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THIS PLAN IS NOT TO BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY AND MAY BE SUBJECT TO CHANGES AS AN ACCURATE BOUNDARY SURVEY MAY DISCLOSE.
11. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE BUILDING TO ENSURE SURFACE WATER AND/OR GROUND WATER ARE DIRECTED AWAY FROM THE STRUCTURE. THIS PLAN SHOWS GENERAL GRADING ONLY AND ADDITIONAL DETAIL MAY BE REQUIRED.
12. NO REPRESENTATIONS ARE MADE BY DEA THAT UTILITY SERVICE IS AVAILABLE.
13. ALL EXISTING UTILITIES SHOWN ARE FROM VISIBLE INFORMATION, DRAWINGS BY OTHERS, OR INFORMATION PROVIDED TO DEA AND ARE SUBJECT TO CHANGE.

THIS SITE IS REVIEWED UNDER RIDEM WETLANDS APPLICATION # 00-0049 , DATED 3/26/01 .

Construction Notes

1. CONSTRUCTION SHALL CONFORM TO THE RHODE ISLAND SPECIFICATIONS SET FORTH IN THE "DEPARTMENT OF ENVIRONMENTAL MANAGEMENT- RULES AND REGULATIONS" ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION & CONSTRUCTION OF ONSITE WASTEWATER TREATMENT SYSTEMS EST. 1/08.
2. THE FILL AROUND THE SYSTEM SHALL BE COARSE SAND, OR BANK RUN GRAVEL.
3. CONCRETE SAND SHALL CONTAIN LESS THAN 2% FINES AND MEET THE ASTM C33 STANDARD.
4. INSTALLER TO REMOVE ALL TREES AND SHRUBS FROM LEACHING AREA, AND 10' ON ALL SIDES.
5. BUILDING SEWER PIPE TO BE MINIMUM 4" SCH 40 PVC. ALL OWTS PIPING TO BE MINIMUM 4" SDR 35.
6. TREATMENT TANK RISERS TO BE AT FINISH GRADE AS PER 2008 DEM REGULATIONS.
7. INSTALLER TO STRIP TOP AND SUBSOIL OF LEACHING AREA DOWN TO SUBSTRATA, 0 FT. ON ALL SIDES. AN ADDITIONAL 6" MAY NEED TO BE REMOVED IF FINES ARE PRESENT IN THE SUBSTRATA, AS DETERMINED BY THE ENGINEER OR R.I.D.E.M. OFFICALS.
8. INSTALLER TO MAINTAIN OWTS INVERT EL. 274.08 FOR 10' FILL PERIMETER.
9. BENCH MARK = TOP OF EXISTING WSO

ELEV.= 273.07

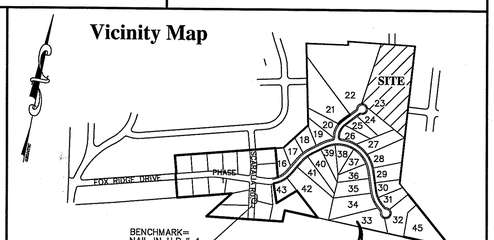
10. ALL STAGES OF THE OWTS INSTALLATION MUST BE SUPERVISED BY THE DESIGN ENGINEER.
11. DIG SAFE IS REQUIRED TO BE NOTIFIED PRIOR TO START OF ANY CONSTRUCTION.

Sequence of Construction

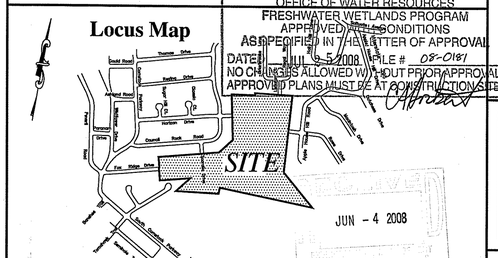
1. CONTRACTOR TO OBTAIN ALL REQUIRED FEDERAL, STATE AND MUNICIPAL PERMITS, AND TO NOTIFY "DIG SAFE" PRIOR TO CONSTRUCTION.
2. SET SILT FENCING AT LIMIT OF WORK. MAINTAIN CONTINUOUS FENCE LINE DURING CONSTRUCTION AND REPAIR AS NEEDED.
3. CONTACT DESIGNER 24 HR. PRIOR TO OWTS CONSTRUCTION
4. BEGIN OWTS BOTTOM EXCAVATION
5. CONTACT DESIGNER 24 HR. PRIOR TO OWTS BOTTOM EXCAVATION COMPLETION FOR INSPECTION
6. BEGIN OWTS CONSTRUCTION -
7. CONTACT DESIGNER 24 HR. PRIOR TO OWTS COMPLETION FOR INSPECTION
8. COVER OWTS COMPONENTS AND COMPLETE FINISH GRADING
9. CONTACT DESIGNER 24 HR. PRIOR TO OWTS FINAL GRADING FOR INSPECTION
10. COMPLETE SOIL STABILIZATION BY LOAM AND SEEDING DISTURBED AREAS.

NOTE: DESIGNER REQUIRES A MINIMUM OF THREE(3) INSPECTIONS: BOTTOM INSPECTION, COVER INSPECTION, & FINAL INSPECTION

Vicinity Map



Locus Map



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATE: JUL 25 2008 FILE # 08-0181
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

JUN - 4 2008

"Wetlands Submission"

GRAPHIC SCALE

60 30 15 0 30 90

(IN FEET)
1 inch = 30 ft.

DiPrete Engineering
Two Stafford Court, Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.DiPrete-Eng.com

DE Job No:0162-005 D23 Copyright 2008 by DiPrete Engineering Associates, Inc.

Owner & Applicant:
Humberto Chaca
29 Sisson Street
Providence, RI 02909
(401)-499-7643

Rev.	Description	Date:
0	Wetlands Submission	5/28/08
0	OWTS Re-Submission	4/08

Design By: G.T.S. Checked By: K.C.M.

Onsite Wastewater Treatment System

Assessor's Plat 26-2 , Lot 302
Fox Ridge Estates - Phase II - Subdivision Lot 23
Cranston, Rhode Island

Date: April, 2008

Scale: 1" = 30'

KEVIN C. MORIN
No. 7051
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Sheet 1 of 1

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