

BOTTOMLESS SAND FILTER DESIGN

GIVEN:

SOIL CATEGORY: 3
 LOADING RATE: 4.50 GAL/SF/DAY
 STRUCTURE: 2 PR. BEDROOMS
 DESIGN FLOW: 150 GAL/DAY/BEDROOM

TOTAL DAILY FLOW:

300 GAL/DAY / 4.50 GAL/SF/DAY = 66.7 SF REQ'D

FILTER PROVIDED:

70 SF PROVIDED

GENERAL:

THE CONTRACTOR IS REQUIRED TO MAINTAIN THE CONSTRUCTION AREA IN A SAFE MANNER AND ALL CONSTRUCTION ACTIVITY ON THE SITE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. SYSTEM SHALL BE INSTALLED AS PER THE CURRENT RULES AND REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF INDIVIDUAL SEWAGE DISPOSAL SYSTEMS... GARBAGE DISPOSALS ARE NOT ALLOWED. D.E.M. REQUIRES THE REMOVAL OF ALL TREES AND BRUSH WITHIN 10 FEET OF THE PROPOSED LEACH FIELD. NO VEHICULAR TRAFFIC IS PERMITTED OVER THE PROPOSED LEACH FIELD. NO DRAINS, INCLUDING FOUNDATION DRAINS, SHALL BE WITHIN 25' OF THE PROPOSED LEACH FIELD. UNLESS SHOWN THERE ARE NO KNOWN DRAINS WITHIN 200' OF THE PROPOSED LEACH FIELD. THIS SITE IS NOT LOCATED IN A CRITICAL RESOURCE AREA S.D. 19.00. THERE ARE NO COASTAL POND SHORELINE FEATURES AND TRIBUTARIES INCLUDING STORM AND SUBSURFACE DRAINS DIRECTLY DISCHARGING THERETO WITHIN 200' OF THE PROPOSED I.S.D.S. THERE IS A SHORELINE WITHIN 200' OF THE PROPOSED I.S.D.S. THERE IS A WETLAND WITHIN 200' OF THE PROPOSED I.S.D.S. THE PROPOSED DWELLING DEPICTED HEREON APPEARS WITHIN ZONES C AND A. NO BASE FLOOD ELEVATION DETERMINED. REFERENCE FEMA FLOOD INSURANCE RATE MAP 445407 0025 D REVISED DATE JANUARY 3, 1986.

WATER SUPPLY:

ALL WATER SUPPLY LINES SHALL NOT COME WITHIN 25' OF THE PROPOSED LEACH FIELD AND 10' OF THE PROPOSED SEPTIC TANK. UNLESS SHOWN THERE ARE NO KNOWN EXISTING OR PROPOSED WELLS WITHIN 200 FEET OF THE PROPOSED LEACH FIELD. THERE ARE NO KNOWN EXISTING OR PROPOSED PUBLIC WELLS WITHIN 500' OF THE PROPOSED LEACH FIELD OR ALTERNATE AREA. UNLESS SHOWN THERE ARE NO EXISTING OR PROPOSED SEWAGE DISPOSAL SYSTEMS WITHIN 100' OF THE PROPOSED WELL.

UTILITIES:

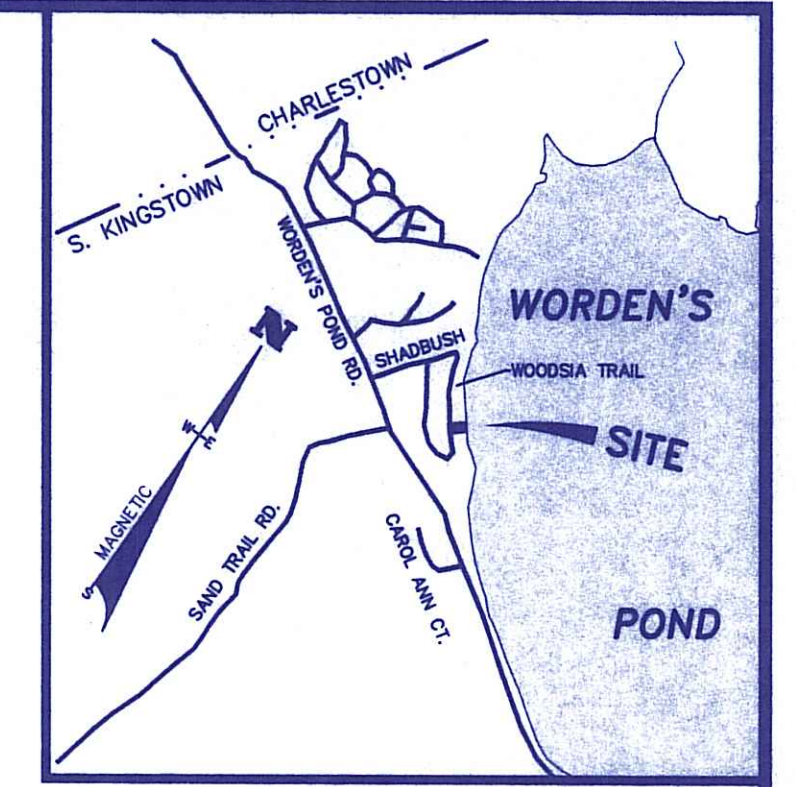
THE LOCATION OF EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE ONLY AND HAVE BEEN SHOWN USING THE BEST AVAILABLE DATA. THE CONTRACTOR SHALL CONTACT 'DIG-SAFE' AND/OR OTHER APPROPRIATE UTILITY COMPANIES TO ASCERTAIN THE EXACT LOCATION OF THE RESPECTIVE UTILITY PRIOR TO CONSTRUCTION. UTILITIES INCLUDE BUT ARE NOT LIMITED TO GAS, ELECTRIC, WATER, TELEPHONE CABLE TV, ETC.

ISDS COMPONENTS:

- 1 - 1500 GALLON 2-COMPARTMENT SEPTIC TANK (RECIRCULATING TANK)
 - 1 - ADVANTECH AX-20 (MODE 3B) UNIT PACKAGE
 - 1 - PUMP CHAMBER - 30" DIA. PVC
 - 1 - CONTROL PANEL - SEE SEPARATE LISTING BELOW FOR CONTROL PANEL SPECIFICATIONS
 - 1 - SALCOR 3G WASTE ULTRAVIOLET DISINFECTION UNIT
- ALL GRAVITY SEWER PIPE SHALL BE 4" DIA. SDR 35 PVC UNLESS NOTED OTHERWISE. GRAVITY SEWER LINES UNDER DRIVEWAYS AND PARKING AREAS SHALL BE SCHEDULE 40 PVC.

REVISED PER DEM:

THE AREA BETWEEN THE POND EDGE AND THE LIMITS OF DISTURBANCE MUST BE ALLOWED TO REVEGETATE TO A NATURAL STRIP.



LOCATION PLAN
SCALE: 1" = 2000'

LEGEND

- PROPERTY LINE
- UTILITY POLE
- PROPOSED CONTOUR
- PROPOSED SPOT GRADE
- EXISTING CONTOUR
- SILT FENCE/LIMIT OF DISTURBANCE
- EXISTING WATER LINE
- EXISTING TEST HOLE WITH PIPE
- WELL
- PATH OF STORMWATER RUNOFF

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUL 31 2007 FILE # 07-0245
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

PROPOSED DRIVEN WELL

WELL IS 76' FROM THE EXISTING SEPTIC TANK AND 80' FROM THE EXISTING LEACH FIELD TO THE SOUTH.
 WELL IS 80' FROM THE EXISTING LEACH FIELD TO THE NORTH.
 WELL IS 98' FROM THE PROPOSED BSF LEACH FIELD.

THIS PARCEL OF LAND IS ALSO DESIGNATED AS LOT 46 OF ASSESSOR'S MAP 60-1.

NOTICE TO CONTRACTOR'S OR BIDDER'S

THIS IS A CLASS THREE DESIGN. R.I.D.E.M. REQUIRES THE DESIGN ENGINEER TO OBSERVE ALL STAGES OF CONSTRUCTION. IT IS MANDATORY THAT THE CONTRACTOR CONTACT FRISELLA ENGINEERING TO SET UP A MEETING AT OUR OFFICE TO OBTAIN A CURRENT LIST OF INSPECTIONS, MATERIAL REQUIREMENTS, AND REVIEW OF PLAN AND DESIGN DETAILS.

FRISELLA ENGINEERING, INC.
 CIVIL AND ENVIRONMENTAL ENGINEERING
 LAND SURVEYING
 LANDSCAPE ARCHITECTURE

23 ARNOLD STREET WAKEFIELD, RI
 PHONE (401) 783-5949 FAX (401) 783-5997
 www.frisella.com

| NO. | DATE | DESCRIPTION | BY |
|-----|------|-------------|----|
| | | | |

DRAWING TITLED:
PLAN OF A PROPOSED SITE DEVELOPMENT
 MAY 31 2007

LOCATED ON:
LOT 36 OF THE "WORDEN'S POND SHORE PLAT"

OWNED BY:
MARY ALICE HOULE

ADDRESS:
**WOODZIA TRAIL
 IN THE TOWN OF SOUTH KINGSTOWN, RI**

APRIL 2007
 DESIGNED BY:
JOSEPH W. FRISELLA, P.E.,

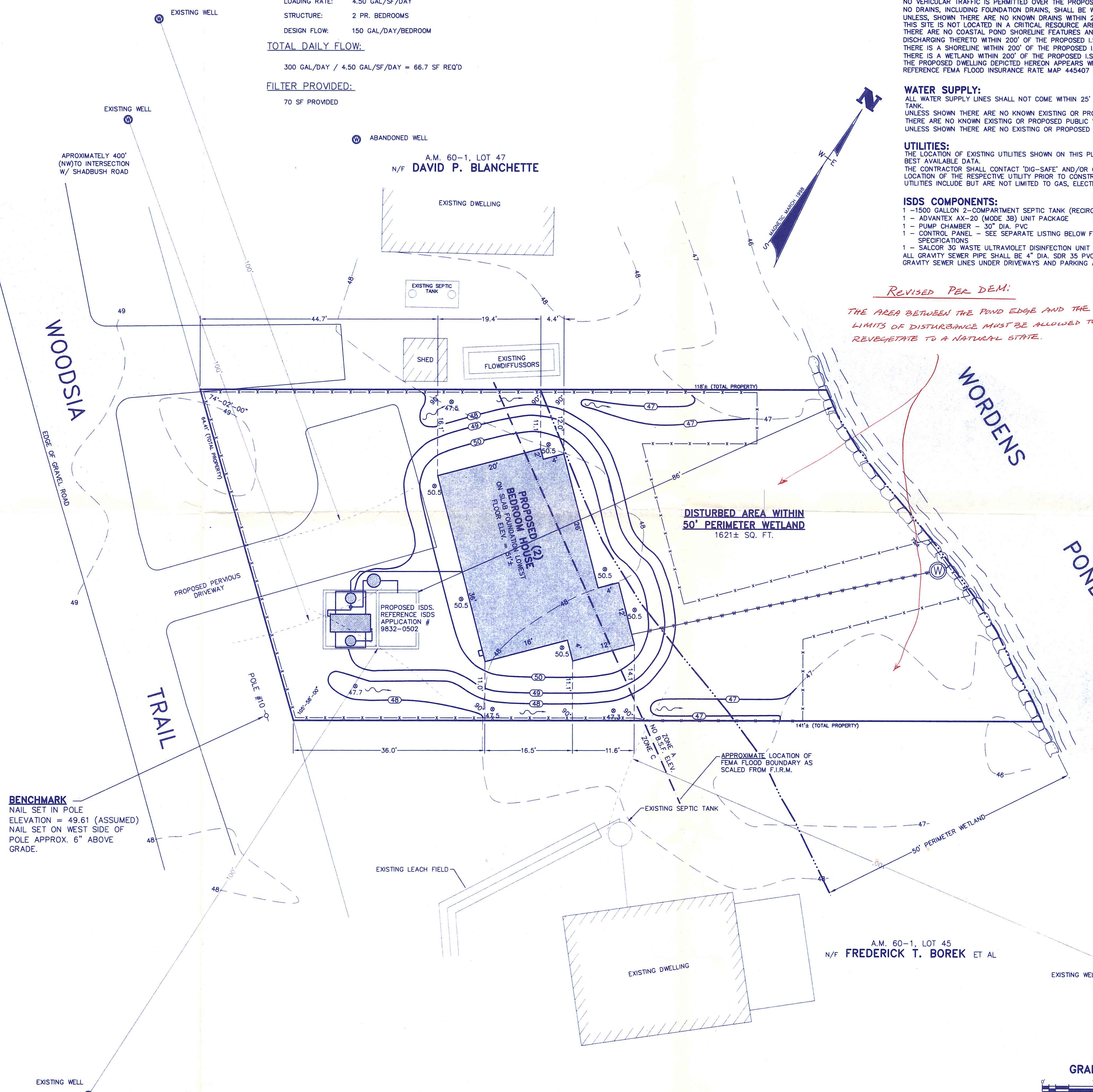
SCALE: 1" = 10'

DRAWN BY: **J. KROLL** CHECKED BY: **JWF**

DRAWING NO.:
SHEET 1 OF 1

JOSEPH W. FRISELLA
 No. 2930
 REGISTERED PROFESSIONAL ENGINEER

GRAPHIC SCALE: 1" = 10'



BENCHMARK
 NAIL SET IN POLE
 ELEVATION = 49.61 (ASSUMED)
 NAIL SET ON WEST SIDE OF
 POLE APPROX. 6" ABOVE
 GRADE.

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