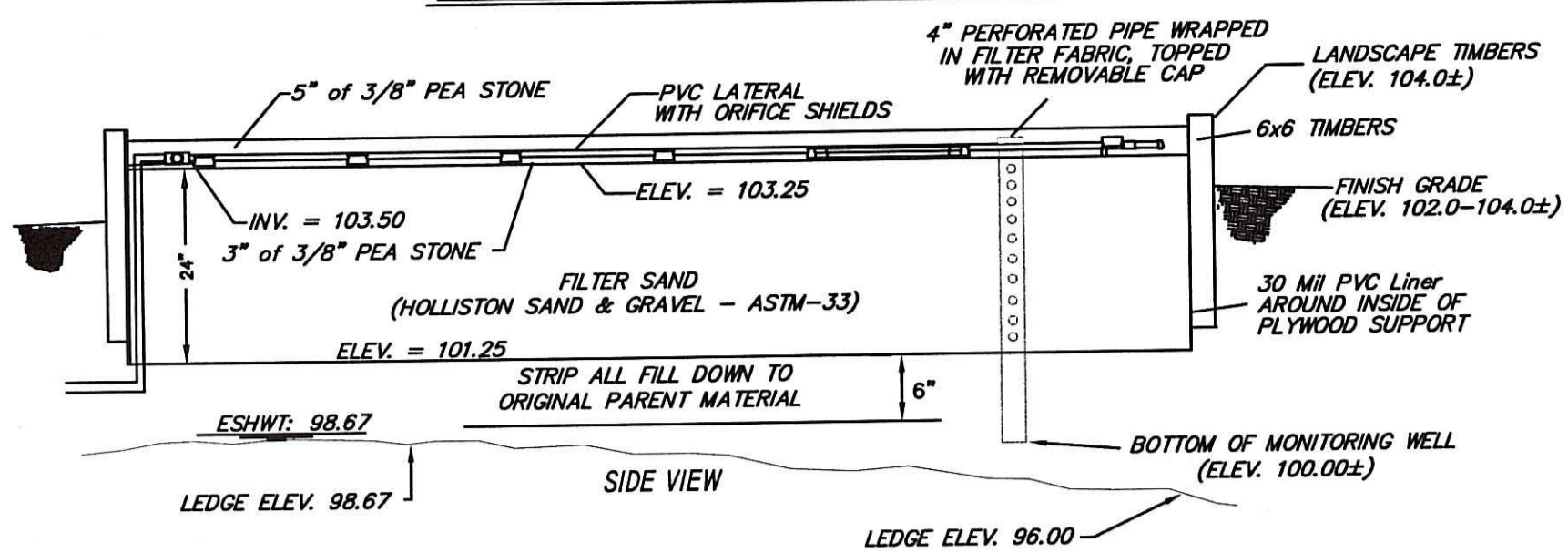
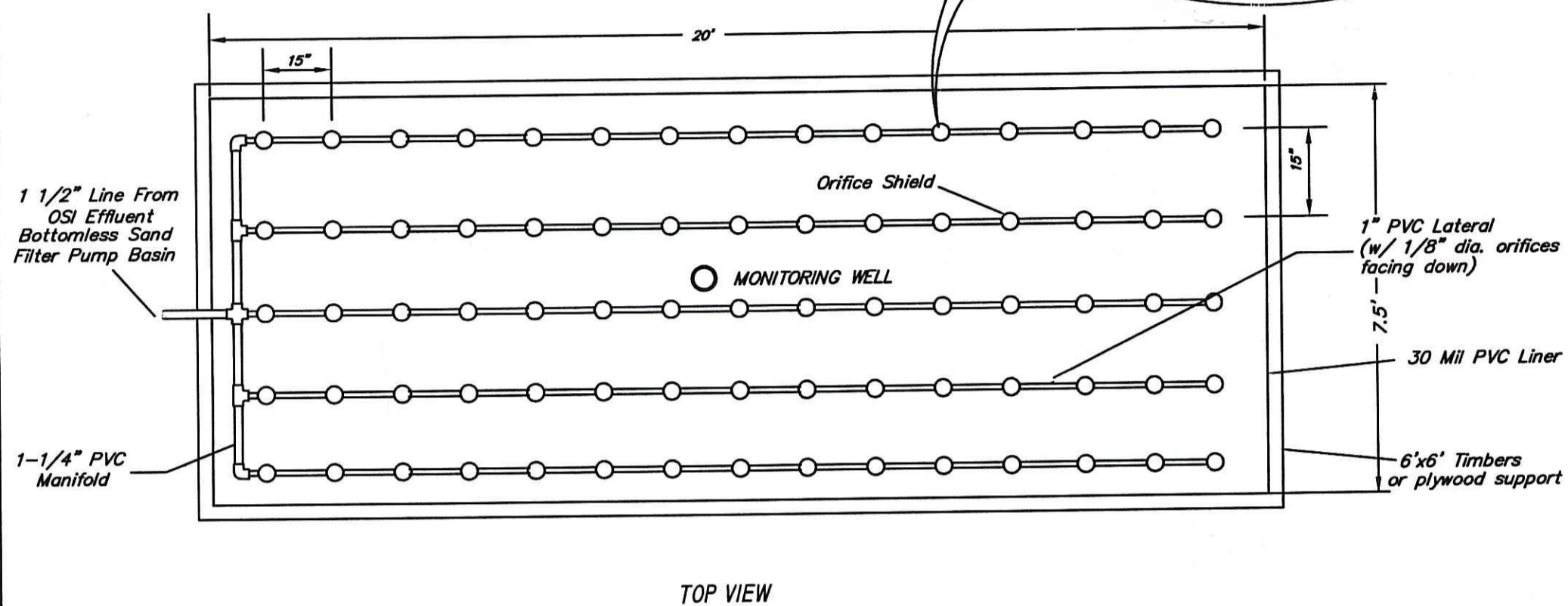


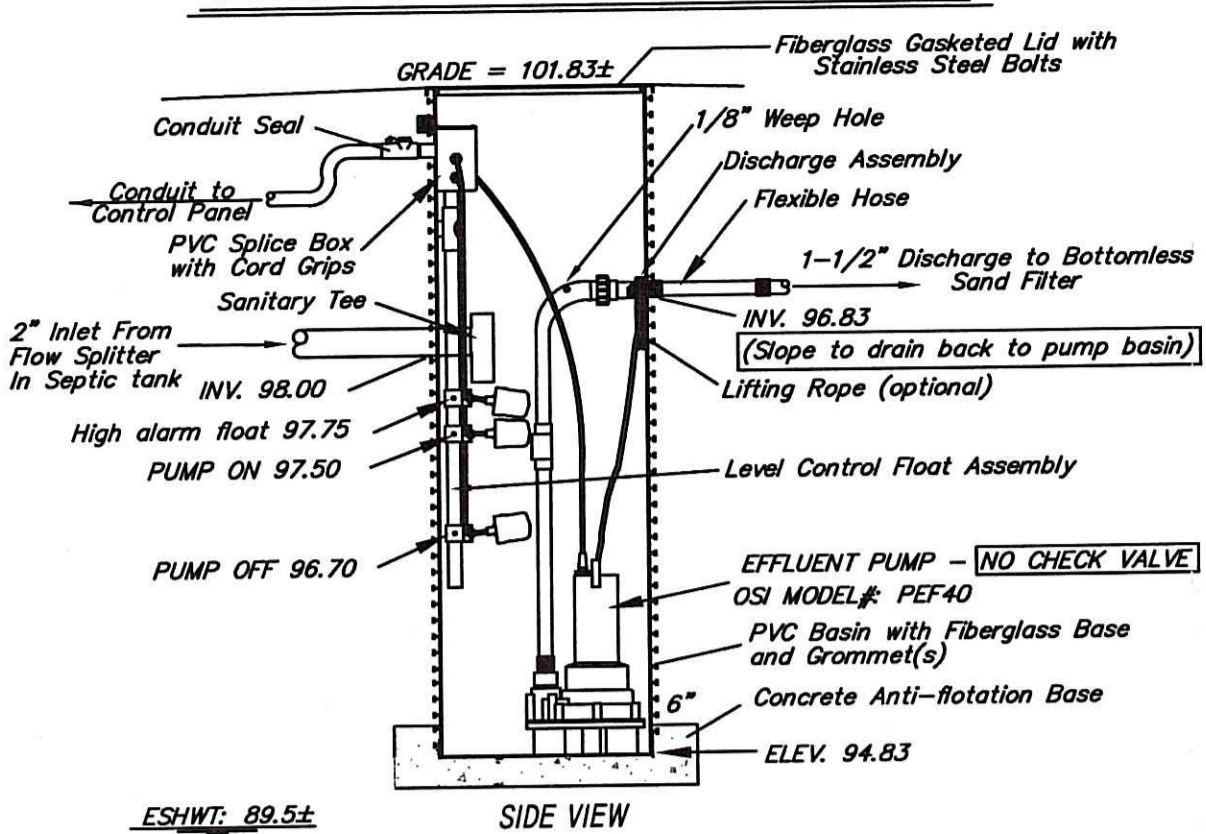
BOTTOMLESS SAND FILTER NOT TO SCALE



NOTE: TWO ORIFICES WITHOUT SLOTS TO BE PLACED ON TOP OF EACH LATERAL AT HALFWAY AND END OF LATERAL LENGTH.



30\"/>



LIST OF SYSTEM COMPONENTS

- 1,500 GALLON 2-COMPARTMENT CONCRETE SEPTIC TANK WITH PUMP VAULT AND RECIRCULATION SPLITTING VALVE, W/OSI PUMP TANK WITH PUMP VAULT AND RECIRCULATION SPLITTING
- 7\"/>
- AX-20 ADVANTEK TEXTILE FILTER.
- 7.5' LONG X 20' WIDE BOTTOMLESS SANDFILTER
- ORENCO SYSTEMS, INC. CONTROL PANEL.

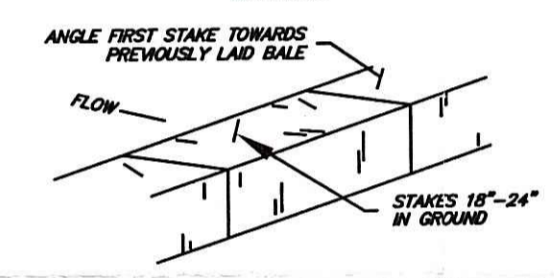
TEST HOLE DATA

DATE: 5/1/07
 TH1
 0'-6\"/>

LEGEND

- 100 --- 100 EXISTING CONTOURS
- 100 --- 100 PROPOSED CONTOURS
- TEST HOLE
- LIMIT OF DISTURBANCE
- STAKED HAYBALES OR SILT FENCE & LIMIT OF DISTURBANCE

HAYBALE DETAIL



GENERAL NOTES

- 1) SYSTEM INSTALLATION TO BE SUPERVISED BY THE DESIGNER.
- 2) ALL TREES AND/OR STUMPS WITHIN 10 FEET OF PROPOSED SYSTEM TO BE CLEARED.
- 3) NO WELL EXISTS WITHIN 100' OF THE PROPOSED LEACHING SYSTEM.
- 4) NO LEACHING SYSTEM EXISTS WITHIN 100' OF THE PROPOSED WELL EXCEPT AS SHOWN.
- 5) ANY PRIVATE WELLS, EXISTING & PROPOSED, WITHIN 200' OF ISDS ARE SHOWN.
- 6) ANY PUBLIC WELLS, EXISTING AND PROPOSED, WITHIN 500' OF ISDS ARE SHOWN.
- 7) SEPTIC TANK TO BE A MINIMUM OF 75' FROM ALL WELLS.
- 8) NO DRAINS OF ANY KIND SHALL BE LOCATED WITHIN 25' OF THE PROPOSED LEACHING SYSTEM.
- 9) ALL SOIL AT LEAST 6\"/>
- 10) THE SEPTIC TANK SHALL BE A WATERTIGHT, 1,500 GALLON 2-COMPARTMENT TANK WITH 24\"/>
- 11) THE ADVANTEK-AX TREATMENT SYSTEM CONTAINS A PACKED BED FILTER THAT USES SPECIALLY DESIGNED TEXTILE MATERIALS WITHIN A PRE-ASSEMBLED FILTER UNIT.
- 12) ALL PUMPS SHALL BE EQUIPPED WITH A HIGH WATER LEVEL VISABLE AND AUDIBLE ALARM POWERED BY A CIRCUIT SEPERATE FROM THE PUMP POWER. THE ALARM SHALL BE LOCATED IN A NORMALLY OCCUPIED AREA OF THE DWELLING OR SHALL BE INSTALLED AT A LOCATION TO BE DESIGNATED BY THE HOMEOWNER.
- 13) THE SEPTIC TANK SHALL BE PROVIDED WITH A PVC INLET TEE AND SCREENING PUMP VAULT IN THE OUTLET END. AN ACCESS RISER SHALL BE INSTALLED DIRECTLY ABOVE THE SCREENED PUMP VAULT AND INLET TEE.
- 14) BOTTOMLESS SAND FILTER MEDIA: HOLLISTON SAND & GRAVEL ASTM-33 SAND, LESS THAN 1% PASSING THE SIEVE WITH AN EFFECTIVE SIZE OF .25mm-.45mm AND WITH A UNIFORMITY COEFFICIENT OF 2.0+.
- 15) IF CONTRACTOR ENCOUNTERS ANY CONDITIONS DURING CONSTRUCTION WHICH INDICATE THE SYSTEM CANNOT BE INSTALLED IN ACCORDANCE WITH THE APPROVED DESIGN, CONSTRUCTION SHALL CEASE AND DESIGNER NOTIFIED.
- 16) THE DESIGNER IS NOT RESPONSIBLE FOR ANY NEGLIGENT ACT OF OMISSION OF AN ISDS USER, INCLUDING BUT NOT LIMITED TO, FAILURE TO PROPERLY USE AND MAINTAIN THE SYSTEM, WHICH CAUSES DAMAGE TO THE SYSTEM.
- 17) LOCAL SUPPLIER OF OSI EQUIPMENT: ATLANTIC SOLUTIONS, 2417 EAST MAIN ROAD, PORTSMOUTH, RI 02871 TEL. (401) 283-0176
- 18) 5 FEET FROM SAND FILTER NOT TO BE LOWER THAN ELEVATION 101.25.

DESIGN INFO:

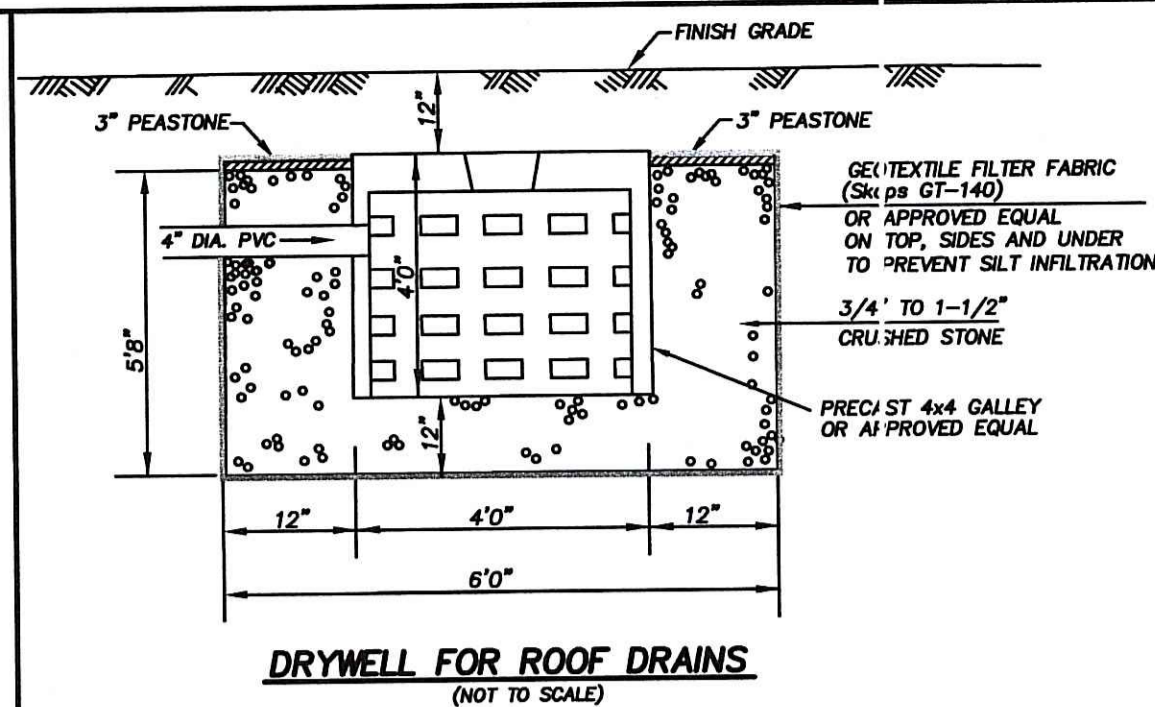
DAILY FLOW: 450 GPD
 SOIL CATEGORY: 1
 APPLICATION RATE: 3 GPD/SF
 AREA REQUIRED: 450/3 = 150 SF

TIMER INFO:

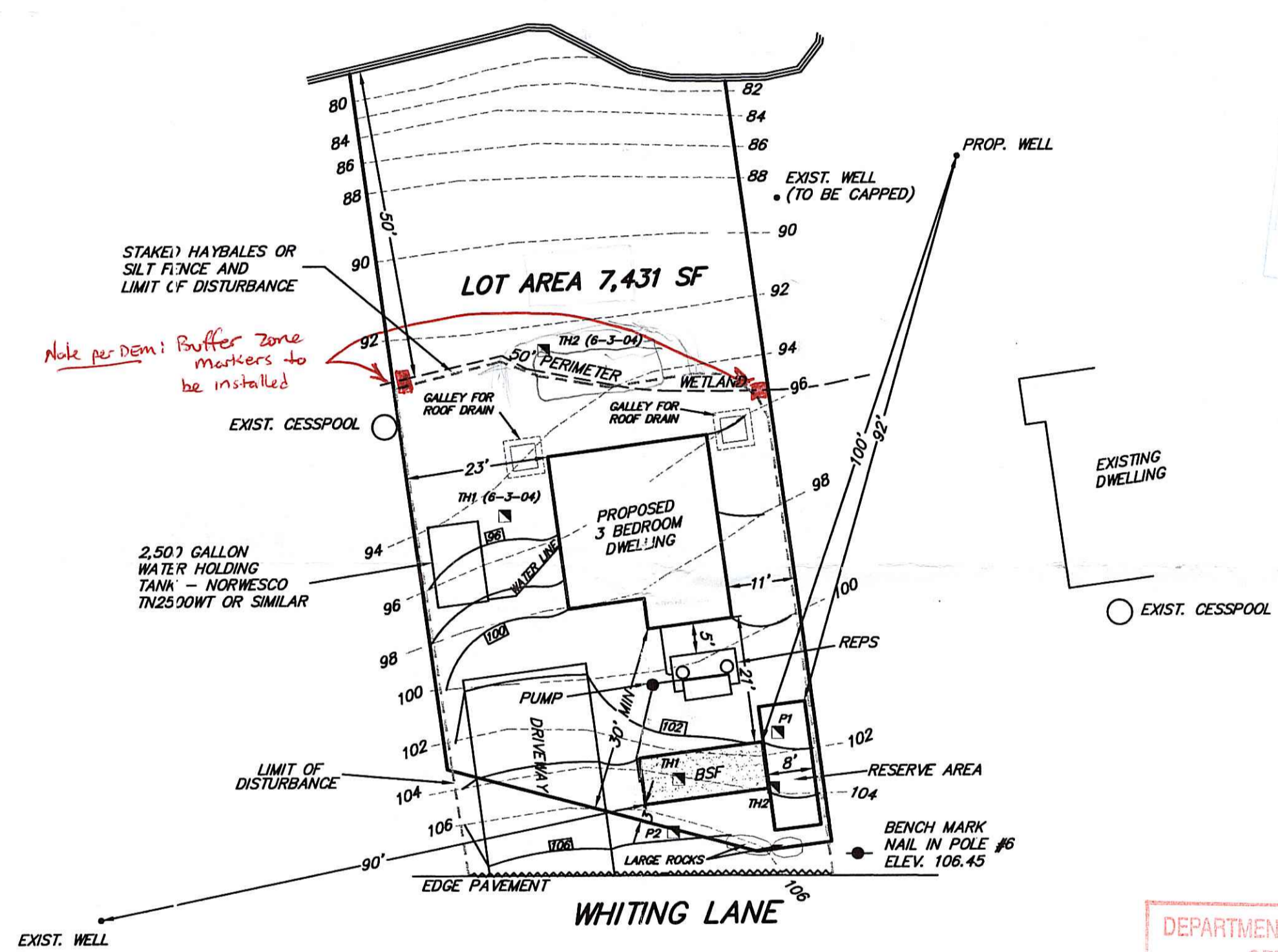
SET ADVANTEK TIMER TO 24 DOSES/DAY
 450 GPD/24 DOSES/DAY = 18.75 GAL/DOSE
 18.75/25.2 GPM = 0.74 MIN.
 TOTAL PUMP RUN TIME = 17.76 MIN./DAY
 TOTAL PUMP OFF TIME = 1,380.74 MIN./DAY
 TIME OFF PER CYCLE = 59.26 MIN.
 TIME ON PER CYCLE = 0.74 MIN.

DOSING RATE:

18.75 GAL/DOSE
 PUMP CHAMBER CAPACITY = 23.5 GAL/FT OR 1.96 GAL/INCH
 PUMP CHAMBER DEPTH @ 18.75 GAL = 9.6 INCHES = .80'
 DOSE PER ORIFICE = 450 GPD/(24 DOSES/DAY)/75 ORIFICES = .234 GAL/ORIFICE/DOSE

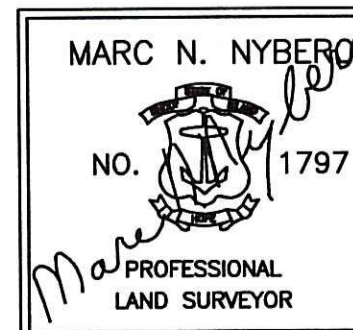


WAKEFIELD POND



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED DATE: 09-19-2007 APPLICATION NO. 07-0212
 DATED SEP 19 2007
 SEE LETTER OF SAME DATE. *Matthew Senack*

PROPOSED LEACHING SYSTEM DESIGN
 AND WETLANDS PLAN
 FOR
PAULETTE BOUSQUETTE-TESSIER
 WHITING LANE
 BURRILLVILLE, RHODE ISLAND
 ASSESSOR'S PLAT #133, LOT #18
 DATE: JUNE, 2007
 SCALE: 1 INCH EQUALS 20 FEET



MARC N. NYBERG ASSOCIATES, INC.
 LAND SURVEYORS and PLANNERS
 501 GREAT ROAD, UNIT 104
 NORTH SMITHFIELD, RHODE ISLAND 02896
 TEL: (401) 762-2870 FAX: (401) 762-2871