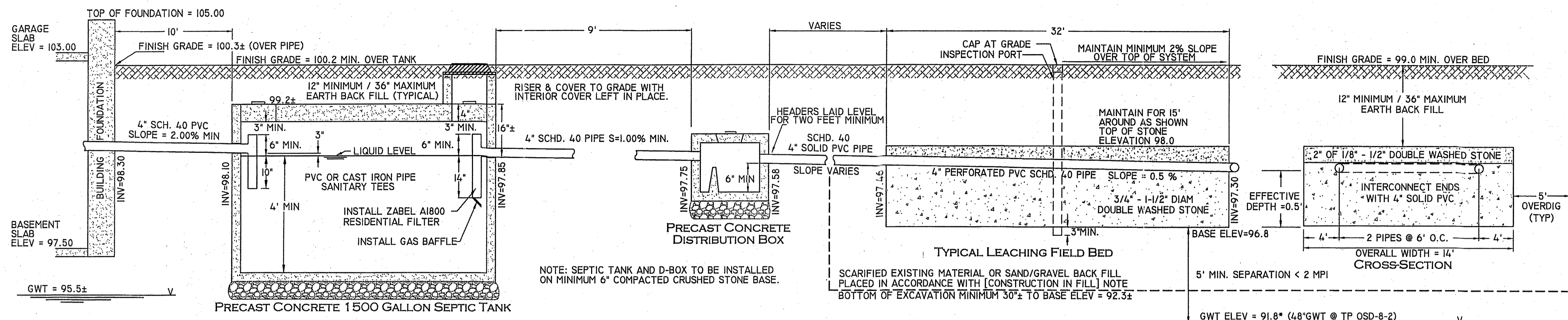


CROSS SECTION THROUGH SEPTIC SYSTEM

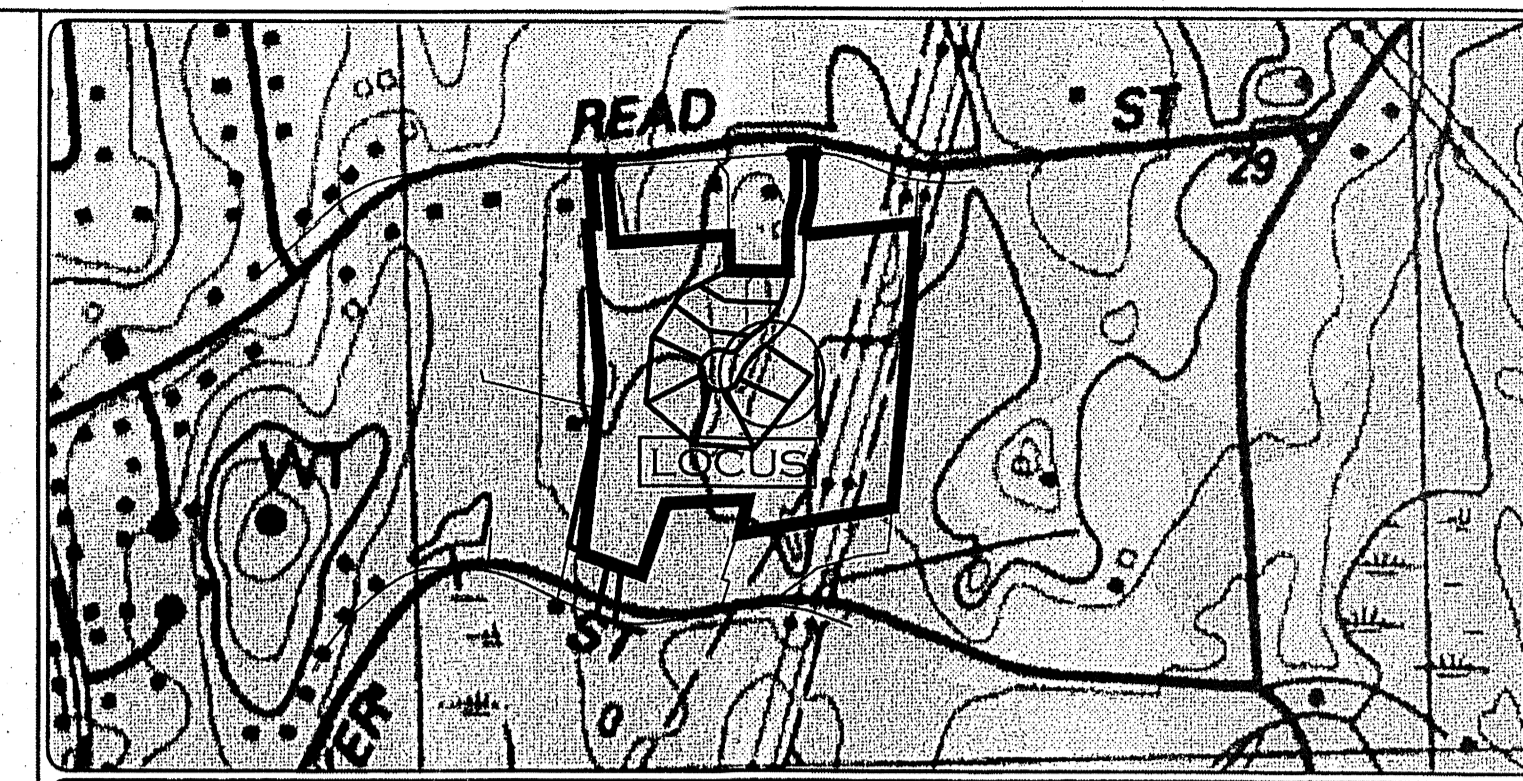
NOT TO SCALE
ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE PER CMR 310 15.22(12)



NOTE: SEPTIC TANK AND D-BOX TO BE INSTALLED ON MINIMUM 6" COMPACTED CRUSHED STONE BASE.

SCARIFIED EXISTING MATERIAL OR SAND/GRAVEL BACK FILL PLACED IN ACCORDANCE WITH [CONSTRUCTION IN FILL] NOTE BOTTOM OF EXCAVATION MINIMUM 30" TO BASE ELEV = 92.3±

TP OSD-8-1 EXISTING GRADE = 94.8 (44" GWT = 91.2)
TP OSD-8-2 EXISTING GRADE = 95.8 (48" GWT = 91.8) *DESIGN GWT*



NOTES & SPECIFICATIONS

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF 310 CMR 15 (TITLE 14) OF THE COMMONWEALTH OF MASSACHUSETTS AND THOSE OF THE TOWN BOARD OF HEALTH.

THE REQUIRED INSPECTION SCHEDULE DURING THE PROCESS OF CONSTRUCTION SHALL BE ARRANGED BY THE CONTRACTOR WITH THE BOARD OF HEALTH & DESIGN ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

THE SEPTIC TANK AND DISTRIBUTION BOX SHALL BE STANDARD DUTY (H-10) OR HEAVY DUTY (H-20) IF LOCATED UNDER A DRIVEWAY.

ALL PIPING SHALL BE 4" DIA. SCHD. 40 NSF PVC, WITH ALL JOINTS SEALED WATERTIGHT.

ALL STONE SHALL BE DOUBLE WASHED AND FREE OF IRONS, CLAY OR FINES AND SHALL BE SATISFACTORY TO THE TOWN BOARD OF HEALTH.

THIS SYSTEM IS NOT DESIGNED TO ACCOMMODATE A GARBAGE DISPOSAL OR OTHER HIGH WATER USE UNITS.

THE PROPOSED SEPTIC SYSTEM IS NOT LOCATED WITHIN THE CONE OF INFLUENCE OF ANY MUNICIPAL WELL NOR ARE THERE ANY PRIVATE WELLS LOCATED WITHIN 100 FEET (RADIAL) OF THE PROPOSED SYSTEM. CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION.

EXCAVATE ALL TOP, SUB AND ANY OTHER SOILS ENCOUNTERED DOWN TO THE BOTTOM OF EXCAVATION (SEE CROSS SECTION) FOR A HORIZONTAL DISTANCE OF 5' ON ALL SIDES OF THE PROPOSED SYSTEM. BACK FILL TO TOP OF STONE ELEVATION WITH SELECT ON SITE OR IMPORTED SOIL MATERIAL CONSISTING OF CLEAN GRANULAR SAND, FREE OF ORGANIC MATTER OR OTHER DELETERIOUS SUBSTANCES AND MEETING THE SIEVE SIZE REQUIREMENTS OF 310 CMR 15.25(3) & (5) [CONSTRUCTION IN FILL].

ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON AN ASSUMED DATUM.

CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO THE CONTINUATION OF CONSTRUCTION.

WATER TABLE FLUCTUATES ANNUALLY, NO WARRANTY OF A DRY BASEMENT IS EXPRESSED OR IMPLIED. FOUNDATION DRAIN TO DAY LIGHT IS SUGGESTED FOR THIS SITE.

THE PROPOSED WORK DOES NOT LIE IN A CRITICAL FLOOD HAZARD ZONE.

THE LOT DOES NOT LIE IN AN OVERLAY DISTRICT FOR GROUNDWATER AQUIFER PROTECTION.

THE CONTRACTOR IS TO VERIFY THE BENCHMARK WITH THE SURVEYOR PRIOR TO CONSTRUCTION.

MAINTAIN 15' MINIMUM SEPARATION FROM WATER SERVICE TO PROPOSED SEPTIC COMPONENTS.

HOUSE DIMENSIONS, ELEVATION AND LOCATION ARE APPROXIMATE AND SUBJECT TO CHANGE, CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION.

CONSERVATION SUBDIVISION ZONING/DIMENSIONAL REQUIREMENTS (PER 25.6).
FRONT YARD SETBACK: 20'
SIDE YARD SETBACK: 10'
REAR YARD SETBACK: 10'

I CERTIFY THAT THE PROPOSED WATER SERVICE SHOWN ON THIS PLAN IS IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE SEEKONK WATER DISTRICT. THE CONTRACTOR IS TO COORDINATE THE WATER SERVICE TIE IN WITH THE WATER AUTHORITY AND INSTALL THE WATER SERVICE WITH MAGNETIC MARKING TAPE ABOVE THE ENTIRE LENGTH OF THE WATER SERVICE.

REFERENCE DEFINITIVE SUBDIVISION PLAN "MADISON ESTATES", DATE: JUNE 21, 2010, REVISED: DECEMBER 17, 2010 (FINAL APPROVAL), BY INSITE.

TP OSD-8-1

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0-9"	A	SL	10 YR 3/1	-	-
9-22"	B	LS	10 YR 5/8	-	MED TO FINE CLEAN SANDS
22-84"	C1	S	2.5 Y 7/2	COMMON	MED TO FINE CLEAN SANDS
84-110"	C2	SL	2.5 Y 6/2	-	10% GRAVEL

GROUND WATER OBSERVED @ 80"
ESTIMATED HIGH GROUND WATER - 44"
DATE: FEB. 1, 2010
BY: DEAN MONSEES
WITNESS: BETH HALLAL
PERC. RATE @ 26" = < 2 MPI

TP OSD-8-2

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0-9"	A	SL	10 YR 3/1	-	-
9-24"	B	LS	10 YR 5/8	-	-
24-98"	C1	S	2.5 Y 7/2	COMMON	MED TO FINE CLEAN SANDS
98-120"	C2	SL	2.5 Y 6/2	-	10% GRAVEL

GROUND WATER OBSERVED @ 108"
ESTIMATED HIGH GROUND WATER - 48"
DATE: FEB. 1, 2010
BY: DEAN MONSEES
WITNESS: BETH HALLAL
PERC. RATE @ 44" = 5 MPI

TP OSD-8-3

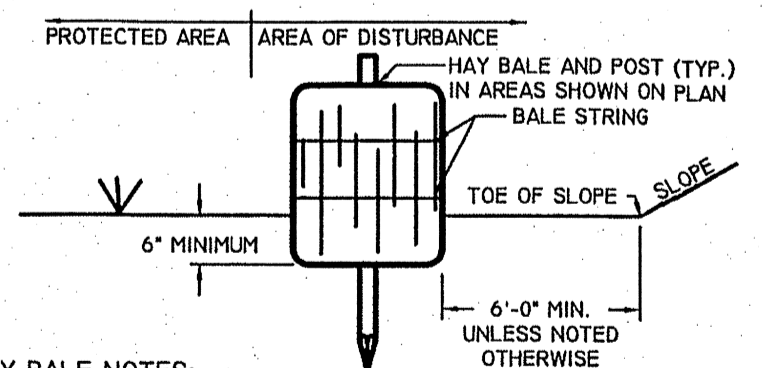
DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0-9"	A	SL	10 YR 3/1	-	-
9-30"	B	LS	10 YR 5/8	-	-
30-110"	C	SL	2.5 Y 6/2	COMMON	FIRM IN PLACE

GROUND WATER OBSERVED @ 100"
ESTIMATED HIGH GROUND WATER - 50"
DATE: FEB. 1, 2010
BY: DEAN MONSEES
WITNESS: BETH HALLAL
NO PERC.

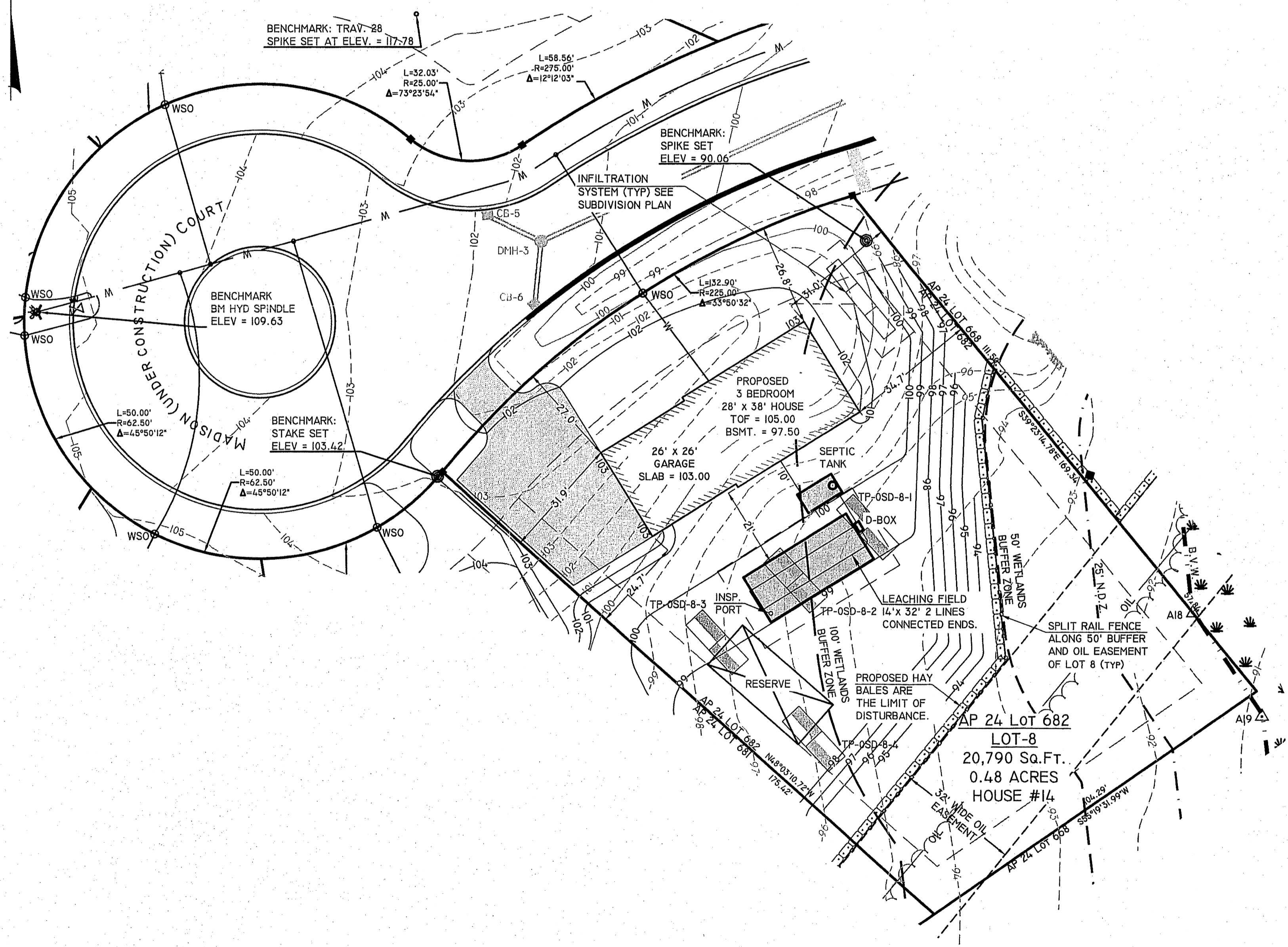
TP OSD-8-4

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0-9"	A	SL	10 YR 3/1	-	-
9-28"	B	LS	10 YR 5/8	-	-
28-60"	C1	S	2.5 Y 7/2	COMMON	MED TO FINE CLEAN SANDS
60-120"	C2	SL	2.5 Y 6/2	-	FIRM IN PLACE

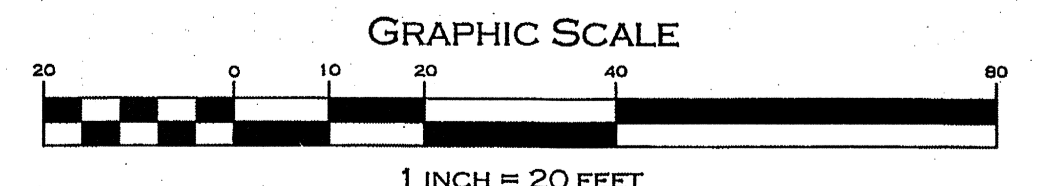
GROUND WATER OBSERVED @ 100"
ESTIMATED HIGH GROUND WATER - 44"
DATE: FEB. 1, 2010
BY: DEAN MONSEES
WITNESS: BETH HALLAL
NO PERC.



- HAY BALE NOTES:**
- HAY BALES ARE TO BE PLACED WITHIN A 6" MINIMUM TRENCH PRIOR TO CONSTRUCTION.
 - THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO THE TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICES.
 - BALE STRING SHALL BE LAID PARALLEL TO THE GROUND SURFACE.
 - EACH BALE TO BE SECURELY STAKED INTO THE GROUND WITH (2) 1"x1"x3" OAK BEAN POLE.
 - CONTRACTOR IS RESPONSIBLE TO MAINTAIN INTEGRITY OF HAY BALE LINE FOR DURATION OF CONSTRUCTION.
 - EROSION CONTROLS TO REMAIN UNTIL SOIL CONDITIONS STABILIZE.
 - LOOSE HAY TO BE SPREAD ON AREAS OF EXPOSED LOAM & SEED UNTIL GERMINATION AND STABILIZATION OCCURS.



LEGEND



DESIGN CALCULATIONS
AVERAGE DAILY SEWAGE FLOW (GALLONS PER DAY)
3 BEDROOM DWELLING @ 110 GPD PER BEDROOM = 330 GPD
SEPTIC TANK SIZING (GALLONS)
200% AVERAGE DAILY FLOW = 2 (330) = 660 GALLONS
3 BEDROOM HOME REQUIRES 1500 GALLON TANK (MINIMUM).
DESIGN SOIL TYPE AND PERCOLATION RATE
SOIL CLASS I (SAND)
PERC RATE IN TP OSD-8-1 WAS < 2 MPI & TP OSD-8-2 WAS 5 MPI DESIGN FOR 5 MPI PER TITLE V
REQUIRED MINIMUM LEACHING AREA:
REQUIRED AREA = 330 GPD / 0.74 GPD / SF = 446 SF MINIMUM
LEACHING FIELD BED: 14' x 32' = 448 SF
RESERVE AREA: 14' x 32' = 448 SF

"SEPTIC SYSTEM DESIGN AND RDA PLAN"

"MADISON ESTATES"
#14 MADISON COURT, SEEKONK, MASSACHUSETTS 02771
ASSESSORS MAP 24, LOT 682, RECORD LOT 8
APPLICANT: COSTA DEVELOPMENT, LLC
65 EMILY WAY, SEEKONK, MASSACHUSETTS 02771
JOB # 09-079-8 SCALE: 1"=20' DESIGN BY: MSF DATE: JANUARY 30, 2014
REVISED:

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SHEET 1 OF 1