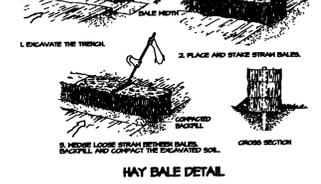


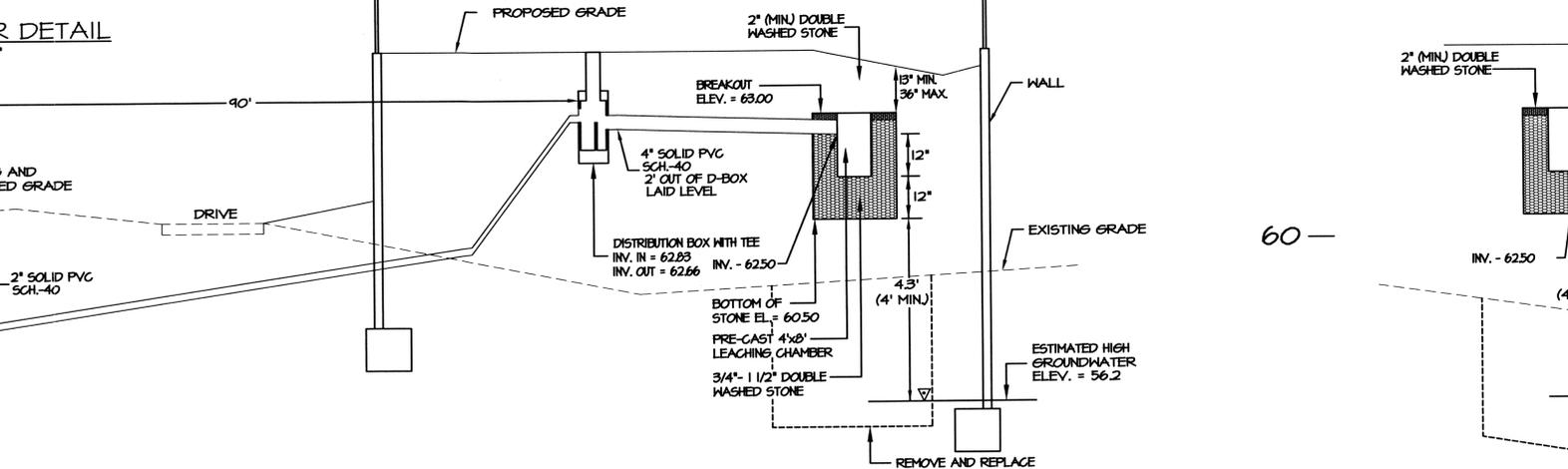
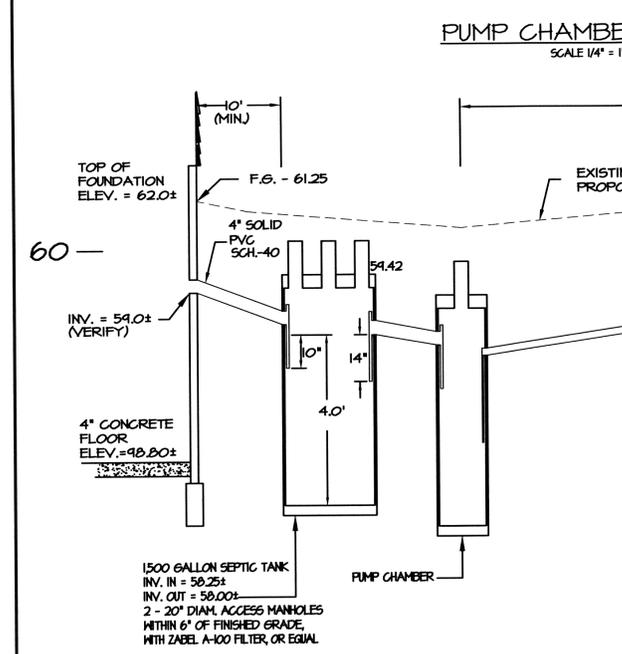
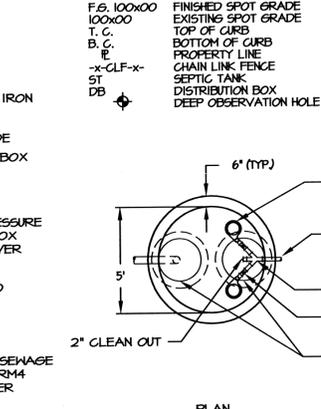
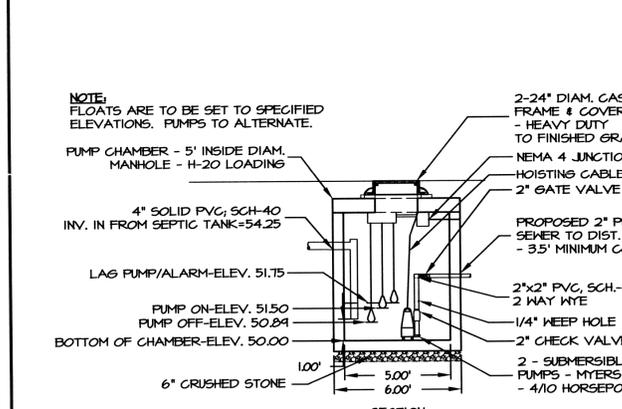
EROSION & SEDIMENTATION CONTROL

1. ALL PERIMETER EROSION AND SEDIMENTATION CONTROLS MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF EARTHWORK.
2. ACCESSIBLE RESERVES OF HAY BALES AND STAKES ARE TO BE MAINTAINED ON SITE FOR ROUTINE MAINTENANCE AND IN THE EVENT OF UNANTICIPATED PROBLEMS REQUIRING EMERGENCY RESPONSE.
3. HAY BALES SHOULD BE INSTALLED IN ACCORDANCE WITH THE DETAILS PROVIDED.
4. NO WORK IS TO OCCUR ON THE WETLAND SIDE OF THE PERIMETER EROSION AND SEDIMENTATION CONTROLS. ALL PERIMETER CONTROLS SERVE AS THE PROJECT LIMIT OF DISTURBANCE.
5. NO STONES, BRUSH, CONSTRUCTION DEBRIS, LITTER, OR OTHER MATERIALS ARE TO BE DEPOSITED ON THE WETLAND SIDE OF THE EROSION AND SEDIMENTATION CONTROLS.
6. ALL DISTURBED SOILS NOT DESIGNATED FOR OTHER SURFACE TREATMENT ARE TO BE LOAMED AND SEEDED IMMEDIATELY FOLLOWING FINAL GRADING.
7. APPROPRIATE PRECAUTIONS SHOULD BE TAKEN TO PREVENT THE TRANSPORT OF SOIL OFFSITE FROM CONSTRUCTION EQUIPMENT.
8. ALL PERIMETER EROSION AND SEDIMENTATION CONTROLS MUST BE PROPERLY MAINTAINED AND MUST REMAIN IN PLACE UNTIL THE SOILS HAVE BEEN STABILIZED TO THE SATISFACTION OF THE ENGINEER AND THE SEEKONK CONSERVATION COMMISSION.



LEGEND

- 100- MA. STD. INV.
- 100- P. V. C. S. D. R. R. G. P. CONC. BIT. P. C. TYP. F.S. 100x100 100x100 T. C. B. G. E. -x-CLF-x- ST DB
- EXISTING CONTOUR
- PROPOSED CONTOUR
- MASSACHUSETTS STANDARD INVERT OF PIPE
- POLYVINYL CHLORIDE PIPE
- STANDARD DIMENSION RATIO REINFORCED CONCRETE PIPE
- CONCRETE (BIT. OR P. C.)
- BITUMINOUS PORTLAND CEMENT TYPICAL
- FINISHED SPOT GRADE
- TOP OF CURB
- BOTTOM OF CURB
- PROPERTY LINE
- CHAIN LINK FENCE
- DISTRIBUTION BOX
- DEEP OBSERVATION HOLE



NOTES:

1. ALL WORK SHALL CONFORM TO THE 310 C.H.R. 5.00 STATE ENVIRONMENTAL CODE - TITLE 5 AND THE RULES AND REGULATIONS OF THE SEEKONK BOARD OF HEALTH.
2. STRIP ALL TOPSOIL, SUBSOIL, AND UNSUITABLE MATERIAL, TREE ROOTS AND STUMPS AND ANY OTHER INTERFERING OR SPECIFIED SOIL IN THE AREA OF THE SYSTEM AND 5 FEET BEYOND HORIZONTALLY IN ALL DIRECTIONS, WHERE POSSIBLE. STRIP MATERIAL VERTICALLY 3" MINIMUM INTO THE G. HORIZONTAL. RESEAL WITH GRANULAR FILL MEETING THE LATEST SPECIFICATIONS OF 310 C.H.R. 5.00.
3. THE CONTRACTOR IS TO REMOVE ALL UNSUITABLE MATERIAL BELOW THE PROPOSED SOIL ABSORPTION SYSTEM PRIOR TO INSTALLATION. SEE DEEP OBSERVATION HOLES SOIL DATA FOR FURTHER INFORMATION.
4. ALL PIPE TO BE 4" P. V. C. SCHEDULE 40 UNLESS OTHERWISE NOTED.
5. PLACE 4" MINIMUM COMPACTED GRADED STONE UNDER SEPTIC TANK, PUMP CHAMBER AND DISTRIBUTION BOX.
6. IF CONDITIONS ENCOUNTERED DURING CONSTRUCTION VARY SUBSTANTIALLY FROM THOSE SHOWN ON THIS PLAN, NOTIFY DESIGNER BEFORE PROCEEDING WITH CONSTRUCTION. IF IN DOUBT, ASK.
7. GARAGE GRINDER IS NOT ALLOWED WITH THIS DESIGN.
8. INLET AND OUTLET TEES FOR SEPTIC TANK ARE TO BE LOCATED DIRECTLY BELOW ACCESS COVERS.
9. SEPTIC TANK AND PUMP CHAMBER ARE TO BE DESIGNED FOR 15-20-44 LOADINGS.
10. IT IS RECOMMENDED THAT THE SEPTIC TANK BE INSPECTED THICE A YEAR, AND BE CLEANED WHEN THE SOLIDS EQUAL ONE THIRD THE LIQUID DEPTH.
11. BREAKOUT ELEVATION = 63.00. NO FINISHED GRADE BELOW 63.00 FOR 15 FEET (MINIMUM) FROM THE EDGE OF THE LEACHING AREA.
12. CONTRACTOR SHALL CONTACT "DIG-SAFE" PRIOR TO CONSTRUCTION. LOCATION OF UTILITIES ON THIS PLAN ARE FROM EXISTING INFORMATION BUT ARE ONLY TO BE CONSIDERED APPROXIMATE.
13. ALL STONE USED FOR CONSTRUCTION OF THE SOIL ABSORPTION SYSTEM MUST BE DOUBLE BASKED AS SPECIFIED BY 310 C.H.R. 5.04. ACTUAL STONE MATERIAL MAY ALSO BE SUBJECT TO APPROVAL BY THE DESIGN ENGINEER AND/OR SEEKONK HEALTH AGENT.
14. WATER AND EQUIPMENT FROM ALTERNATE MANUFACTURERS MAY BE USED IF EQUAL. APPROVAL FOR ALTERNATE MATERIAL AND/OR EQUIPMENT REQUIRED FROM DESIGNER AND THE TOWN ENGINEER TO CONSTRUCTION. FULL SPECIFICATIONS FOR ALTERNATE EQUIPMENT MUST BE PROVIDED BY CONTRACTOR.
15. THE DESIGNER EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR MONITORING, INSPECTING OR SUPERVISING THE ACTUAL CONSTRUCTION WORK. AFTER EXCAVATING AND PRIOR TO INSTALLING ANY IMPORTED MATERIAL, CONTACT THE BOARD OF HEALTH AGENT FOR A BOTTOM OF EXCAVATION INSPECTION. AFTER SYSTEM COMPONENTS ARE IN PLACE AND PRIOR TO BACKFILLING, CONTACT THE DESIGNER TO VERIFY THE LOCATION AND ELEVATION OF SYSTEM COMPONENTS AND PREPARE A RECORD DRAWING AS REQUIRED BY THE BOARD OF HEALTH.
16. THE DESIGNER EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR THE INSTALLATION AND MAINTENANCE OF THE SYSTEM. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO CONSTRUCT THE SYSTEM IN ACCORDANCE WITH 310 C.H.R. 5.00 AND LOCAL BOARD OF HEALTH REGULATIONS AND THE RESPONSIBILITY OF THE OWNER FOR PROPERLY MAINTAINING THE SYSTEM IN ACCORDANCE WITH 310 C.H.R. 5.00 AND THE LOCAL BOARD OF HEALTH REGULATIONS.
17. REFER TO 310 C.H.R. 5.00 AND THE LOCAL BOARD OF HEALTH REGULATIONS FOR ADDITIONAL INFORMATION CONCERNING THE CONSTRUCTION AND OPERATION OF THE SYSTEM. THE INSTALLER AND OWNER SHOULD REVIEW AND APPLY 310 C.H.R. 5.00 AND THE LOCAL BOARD OF HEALTH REGULATIONS.
18. SYSTEM TO BE CONSTRUCTED BY A INSTALLER LICENSED BY THE SEEKONK BOARD OF HEALTH.
19. FULL MEETING THE REQUIREMENTS OF 310 C.H.R. 5.25(5) MUST BE PLACED ON SCARIFIED, RELATIVELY DRY NATURAL SOIL. THE CONTRACTOR SHALL PROVIDE FOR DEWATERING AS REQUIRED AND ALL WORK SHALL BE PERFORMED UNDER DRY CONDITIONS PER 310 C.H.R. 5.25(5). THE DISCHARGE WATER MUST BE FILTERED THROUGH A "DANDY" DEWATERING BAG, OR EQUAL, FROM ENTERING A PUBLIC ROADWAY STORM DRAINAGE SYSTEM.

DESIGN DATA

DAILY SEWAGE FLOW
3 BEDROOMS
DAILY FLOW = 110 GALLONS/ROOM = 330 GALLONS PER DAY

SEPTIC TANK REQUIREMENTS
VOLUME = 2 x DAILY FLOW = 660 GALLONS
1500 GALLON SEPTIC TANK

LEACHING AREA REQUIREMENTS
PERCOLATION RATE = 2 HOURS PER INCH
DESIGN FOR 5 HOURS PER INCH - SOIL TEXTURE CLASS - I
EFFLUENT LOADING RATE = 0.14 GALLONS PER SQUARE FOOT

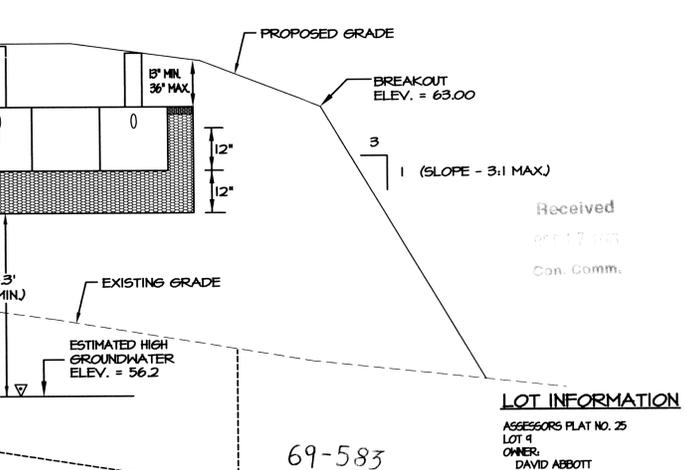
SIDEHALL AREA = 1 SIDE x 30' LONG x 2' DEEP	= 60 SF.
1 SIDE x 10' WIDE x 2' DEEP	= 20 SF.
1 SIDE x 25' LONG x 2' DEEP	= 50 SF.
1 SIDE x 7' WIDE x 2' DEEP	= 14 SF.
1 SIDE x 6' LONG x 2' DEEP	= 12 SF.
BOTTOM AREA = 10' WIDE x 30' LONG x 12' x 5/12	= 285 SF.
TOTAL LEACHING AREA	= 444 SF.
TOTAL LEACHING CAPACITY = 444 S.F. x 0.14 GAL/DAY/S.F. = 33264 GAL/DAY = 330 GPD	

DEEP OBSERVATION HOLE "1" LOG ORIGINAL GRADE - 59.2

DEPTH	HORIZON	TEXTURE	COLOR	MOISTURE	OTHER
0' - 12"	A	SANDY LOAM	10/1R 5/6	36%	-
12" - 40"	A	LOAMY SAND	10/1R 5/6	36%	-
40" - 60"	CL	SAND	25/3/2	-	DENSE GRAVEL
60" - 60"	CL	SAND	25/3/2	-	DENSE GRAVEL
			25/3/2	-	CLAY

OBSERVED GROUNDWATER - NONE
PERC. RATE @ 41" = 2.2 MPH
ESTIMATED HIGH GROUNDWATER - 36" ELEV. - 56.2
DATE OF TEST - 6/6/02

WITNESS BOX
TESTING PERFORMED BY: GORDON HOLF, R.S. 575



PUMPING NOTES

1. EQUIPMENT FROM OTHER MANUFACTURERS MAY BE USED IF EQUAL. APPROVAL FOR ALTERNATE EQUIPMENT REQUIRED FROM ENGINEER PRIOR TO CONSTRUCTION. FULL SPECIFICATIONS FOR ALTERNATE EQUIPMENT MUST BE PROVIDED BY CONTRACTOR.
2. CONTROL PANEL AND ALARM TO BE MOUNTED INSIDE BUILDING IN A CONSPICUOUS LOCATION.
3. JUNCTION BOX IN PUMP CHAMBER TO HAVE SHUT-OFF SWITCH.

DOSING CALCULATIONS

ESTIMATED DAILY VOLUME = 330 GALLONS
NUMBER OF DOSES PER DAY = FOUR (CLASS I SOIL)
VOLUME PER DOSE = 82.5 GALLONS = 11.03 CUBIC FEET
TOTAL DYNAMIC HEAD (MAX) = 62.83 - 50.24 (ELEV.) + 4.4 (FRICTION) = 16.34 FEET
FLOW RATE FOR SPECIFIED PUMP = 20 GALLONS PER MINUTE AT 16.5 FOOT DYNAMIC HEAD

PROFILE
SCALE: HORIZONTAL: 1"=10'
VERTICAL: 1"=2'

PUMPING SYSTEM SPECIFICATIONS

PUMP MODEL
2 - MYERS SRM4 - HORSEPOWER-4/10 - SOLIDS HANDLING CAPACITY - 2 INCH DISCHARGE, 2" NPT, ELECTRICAL - 230 VOLTS, 6 AMPS, 1 PHASE, 60 HZ

CONTROL PANEL MODEL
MYERS CE2ID; ENCLOSURE - NEMA 1, VOLTAGE - 230
HIGH LEVEL ALARM - VISUAL AND AUDIO

FLOATS MODEL
MYERS MODEL MFS2

PUMP CHAMBER
5" DIA. MANHOLE - H-20-44 LOADING

LOT INFORMATION

ASSESSORS FLAT NO. 25
LOT 4
OWNER:
DAVID ABBOTT
READ STREET
SEEKONK, MA 02771
AREA = 42,750 SF.

69-583

SEWAGE DISPOSAL SYSTEM REPAIR
PREPARED FOR
DAVID M. ABBOTT
A.P. 25 - LOT 4
34 GARDNER STREET
SEEKONK, MASSACHUSETTS

CAPUTO AND WICK LTD.
1150 PAWTUCKET AVE.
RUMFORD, R.I. 02916
401-434-8880

DATE: SEPTEMBER 20, 2005
SHEET: 1