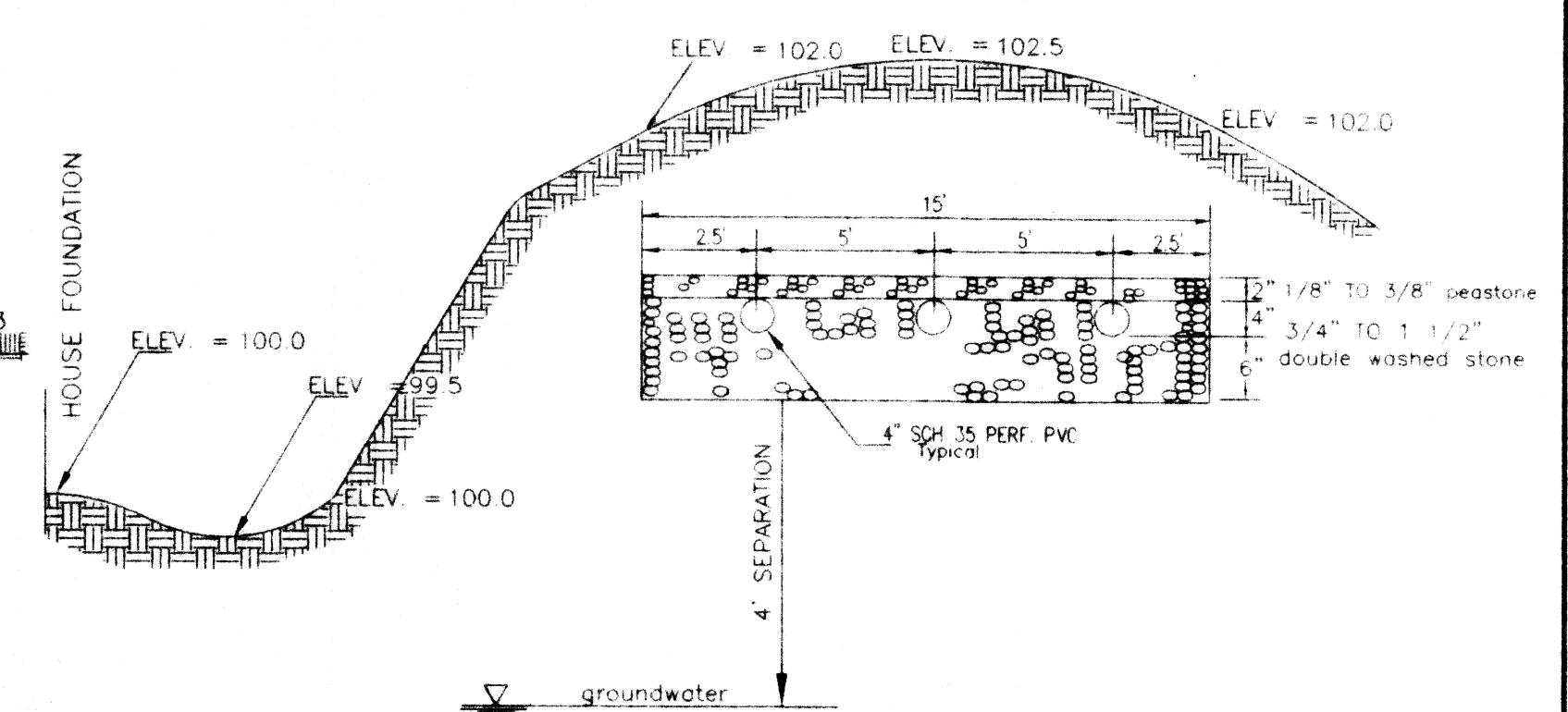
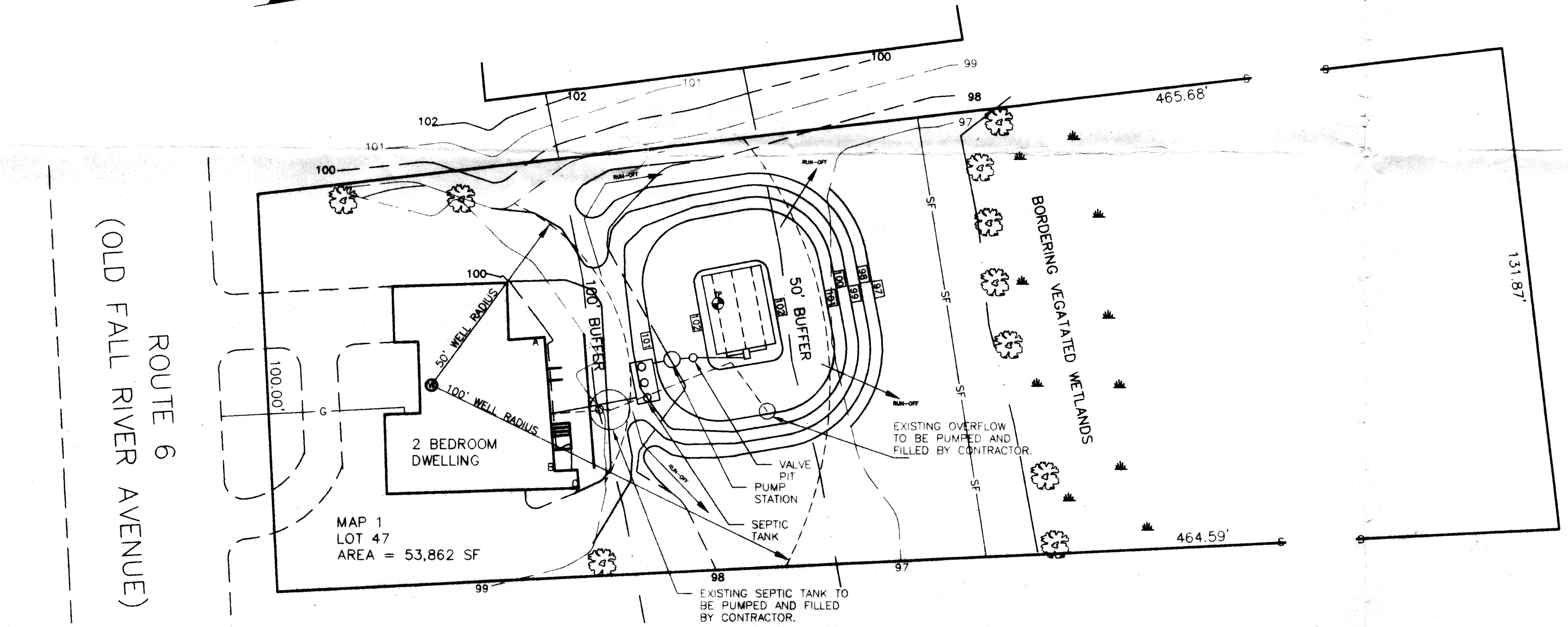
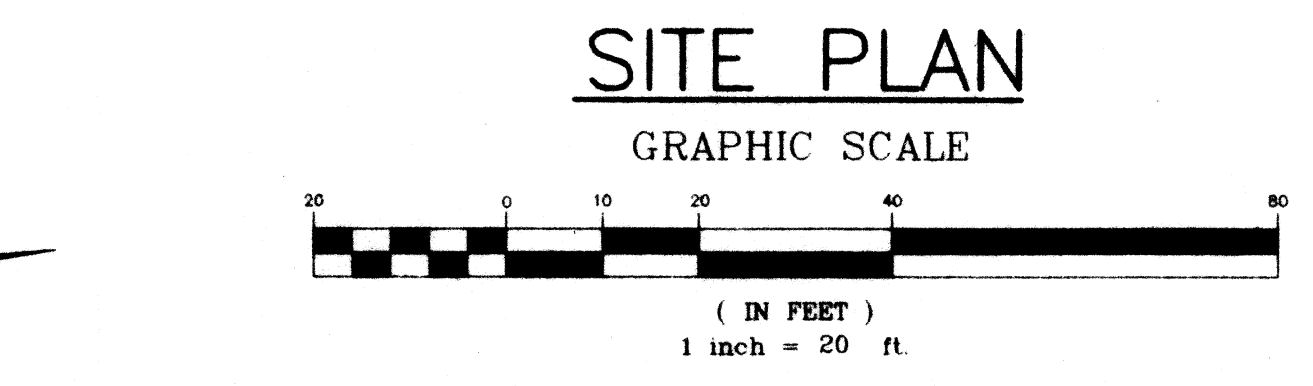
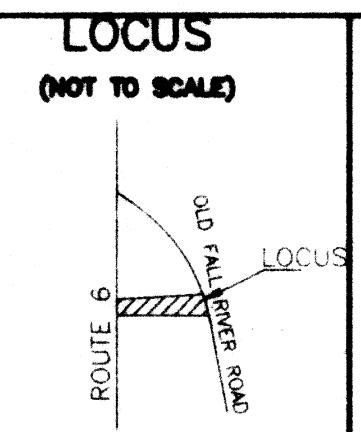


SEPTIC SYSTEM PROFILE
NOT TO SCALE

LEACHING BED PROFILE
NOT TO SCALE



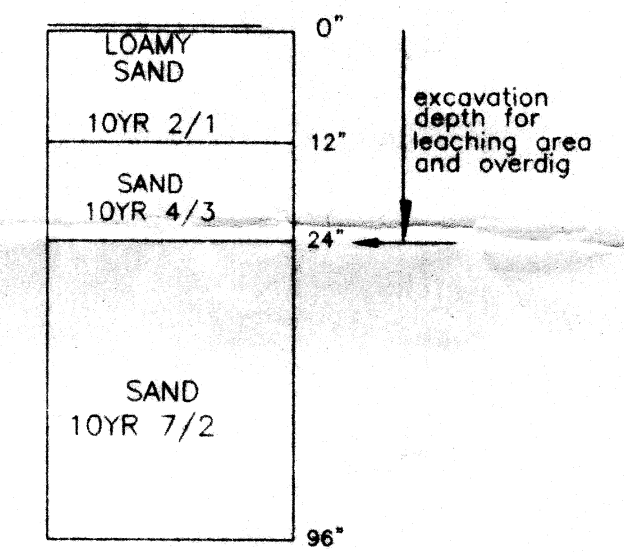
SECTION A-A (looking WEST)
LEACHING BED CROSS-SECTION
NOT TO SCALE



TEST PIT DATA
PERFORMED BY: MOUNT HOPE ENGINEERING
WITNESSED BY: SEEKONK BOARD OF HEALTH AGENT
DATE PERFORMED: 3/27/97

TEST PIT #1

GROUND ELEV. =	97.53
GROUND WATER ELEV. =	96.03
BOTTOM OF TEST PIT =	89.53
PERC TEST ELEV. =	NA
PERC RATE =	5 MIN./INCH (ASSUMED)



DESIGN CRITERIA:

TYPE OF ESTABLISHMENT: 2 BEDROOM SINGLE FAMILY DWELLING
NO ADDITIONAL CAPACITY HAS BEEN PROVIDED FOR GARBAGE GRINDERS
DESIGN FLOW: 2 BEDROOMS X 110 GAL/BEDROOM = 220 GPD
SEPTIC TANK CAPACITY REQUIRED: 1,500 GALLONS
SEPTIC TANK CAPACITY PROVIDED: 1,500 GALLONS
DESIGN PERCOLATION RATE: 5 MIN/IN
LEACHING CAPACITY REQUIRED: 220 GPD (SEE NOTE 10)
LEACHING CAPACITY PROVIDED: 15' x 20' = 300 SF x .74 GPD/SF = 222 GPD

- NOTES**
- ALL CHANGES TO THIS PLAN MUST BE APPROVED BY THE BOARD OF HEALTH AND MOUNT HOPE ENGINEERING.
 - ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF TITLE 5 OF THE STATE ENVIRONMENTAL CODE AND ANY APPLICABLE LOCAL RULES AND REGULATIONS.
 - ANY CONDITIONS ENCOUNTERED DURING CONSTRUCTION DIFFERING FROM THOSE SHOWN HEREON SHALL BE REPORTED TO MOUNT HOPE BEFORE CONSTRUCTION CONTINUES.
 - ALL ELEVATIONS BASED ON ASSUMED VERTICAL DATUM.
 - MOUNT HOPE ENGINEERING IS NOT RESPONSIBLE FOR THE FAILURE OF THE CONTRACTOR OR OWNER TO NOTIFY THE BOARD OF HEALTH AND/OR MOUNT HOPE ENGINEERING FOR PROPER INSPECTIONS DURING CONSTRUCTION.
 - INSPECTIONS FOR CONSTRUCTION SHALL BE AS FOLLOWS:
A. AT THE COMPLETION OF THE EXCAVATION FOR THE SEWAGE DISPOSAL SYSTEM.
 - AFTER STONE, DISTRIBUTION PIPES, AND PUMP IS FUNCTIONING SO REQUIRED AS-BUILT MAY BE PERFORMED.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE UTILITIES AND NOTIFY DIG SAFE BEFORE PROCEEDING WITH CONSTRUCTION.
 - WITHIN THE LIMITS OF EXCAVATION, REPLACE ALL MATERIAL DOWN TO DEPTHS INDICATED ON TEST PIT DATA PROFILES. FILL MATERIAL SHALL BE CLEAN GRANULAR SAND AND GRAVEL FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES. MIXTURES FROM AND LAYERS FROM DIFFERENT CLASSES OF SOILS SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 2" A SIEVE ANALYSIS MUST MEET THE SPECIFICATIONS GIVEN BELOW.
- | | | |
|------|---------|------------|
| #4 | 4.75 mm | 100% |
| #50 | 0.30 mm | 10% - 100% |
| #100 | 0.15 mm | 0% - 20% |
| | 0.75 mm | 0% - 5% |
- THIS SEPTIC SYSTEM HAS BEEN DESIGNED FOLLOWING THE GUIDELINES OF 310CMR-15.404 & 15.405 FOR MAXIMUM FEASIBLE COMPLIANCE DUE TO EXISTING SITE CONDITIONS.
 - THIS DESIGN REQUIRES THE HOME OWNER TO OBTAIN A DEED RESTRICTION LIMITING THE USE OF THIS DWELLING TO TWO BEDROOMS AS DESCRIBED IN THE DEFINITION OF "BEDROOM" IN 310 CMR 15.002 THIS ALLOWS THE DAILY DESIGN FLOW TO BE 220 GPD.

PUMP SPECIFICATIONS

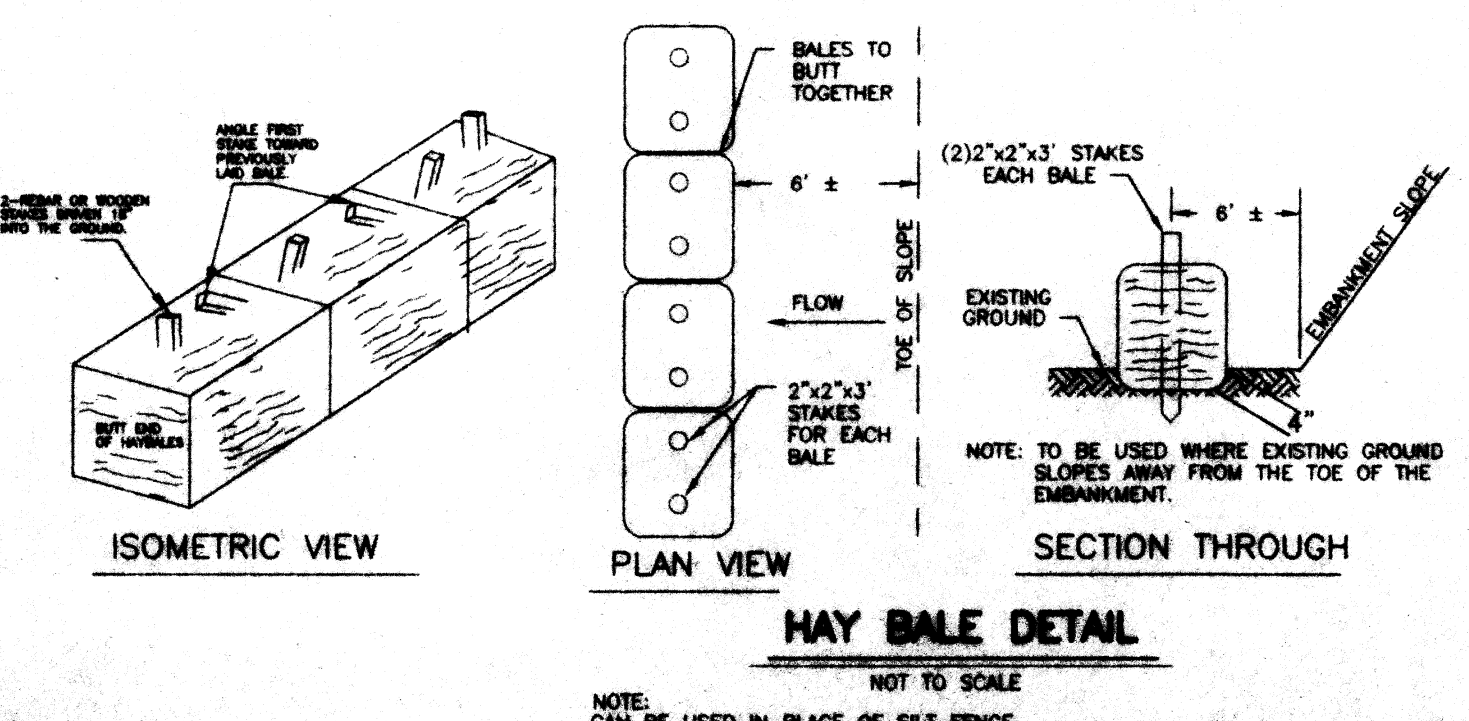
PUMP MUST BE COULDS MODEL 3888 OR EQUAL APPROVED BY MOUNT HOPE ENGINEERING. THE PUMP MUST ALSO MEET ALL TITLE V REQUIREMENTS AS OF 11/03/95.

PUMP STATION IS TO BE A 1,000 GALLON SEPTIC TANK. THE SEPTIC TANK SHOULD BE WATERTIGHT AND LAID LEVEL ON 6" BASE OF CRUSHED STONE.

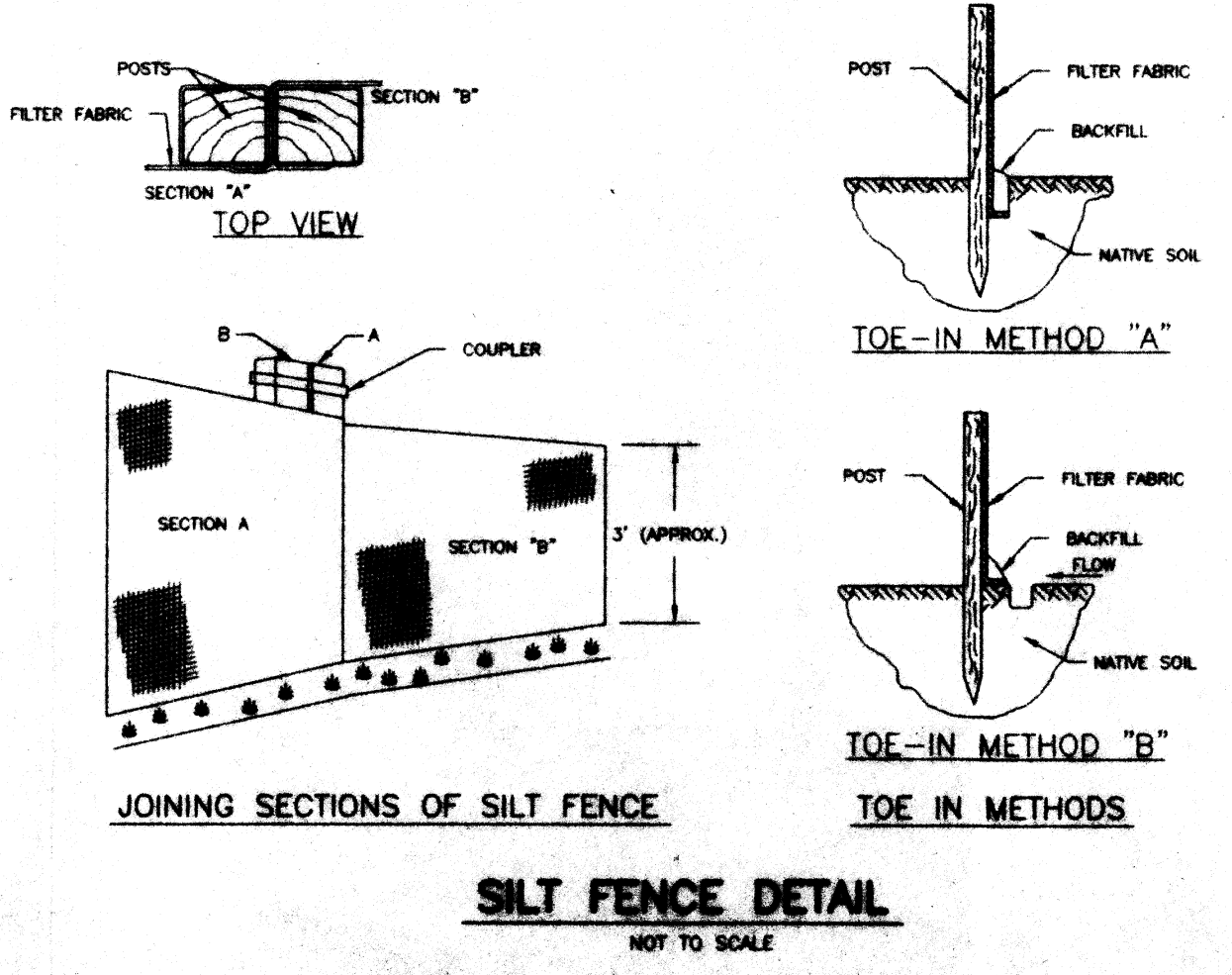
THE VALVE AND ELECTRICAL PIT SHOULD CONTAIN A MANUAL PUMP SHUT-OFF. THE PIT SHOULD ALSO BE WATERTIGHT TO PREVENT ELECTRICAL PROBLEMS. THE PIT SHOULD BE A 2' DIAMETER PRECAST MANHOLE 3' DEEP. THE VALVES AND SHUT-OFF SHOULD BE WITHIN REACH FROM GRADE.

LOCAL UPGRADE REQUEST

- REDUCTION IN THE SETBACK DISTANCE OF THE LEACHING FIELD FROM A PRIVATE WILL FROM 100' TO 72' PER 310CMR 15.405 (1)(h).



MAY BALE DETAIL
NOT TO SCALE



SILT FENCE DETAIL
NOT TO SCALE

SWING TIE LOCATION OF SYSTEM COMPONENTS

SYSTEM COMPONENT	DISTANCE FROM POINT A	DISTANCE FROM POINT B	DISTANCE FROM POINT C
SEPTIC TANK	100'	100'	100'
PUMP STATION	100'	100'	100'
DISTRIBUTION BOX	100'	100'	100'
LEACHING FIELD	100'	100'	100'

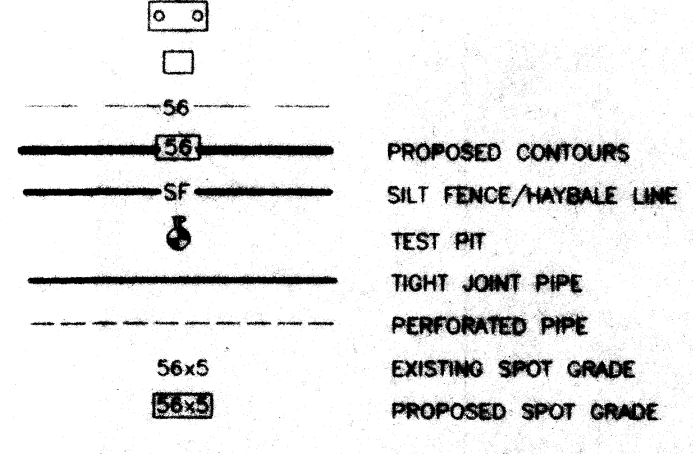
AS-BUILT ELEVATION CHART

SYSTEM COMPONENT	PLAN ELEVATION	FIELD ELEVATION
SEPTIC TANK PIPE IN	97.94	
SEPTIC TANK PIPE OUT	97.69	
PUMP STATION IN	97.69	
PUMP STATION OUT	97.69	
DISTRIBUTION BOX PIPE IN	100.82	
DISTRIBUTION BOX PIPE OUT	100.65	
PIPE AT START FIELD	100.83	
PIPE AT END OF FIELD	100.03	
GROUNDWATER TABLE	96.03	

AS BUILT LEACHING FIELD DIMENSIONS AND AREA
PLAN = 15' x 20' = 300 SF FIELD = ' x ' SF

AS-BUILT PERFORMED BY MOUNT HOPE ENGINEERING ON

LEGEND



REPAIR SUBSURFACE SEWAGE DISPOSAL SYSTEM

PREPARED FOR: WILLIAM & ENID OLIVEIRA
52 MAPLE AVENUE
RIVERSIDE, RI 02915
© 1886 FALL RIVER AVE, SEEKONK

SCALE: AS NOTED
DATE: 4/11/97
DRAWN: DJM
DESIGN: JH
CHECKED: TC

PROJECT NO. 970209
SHEET NO. 1 OF 1

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