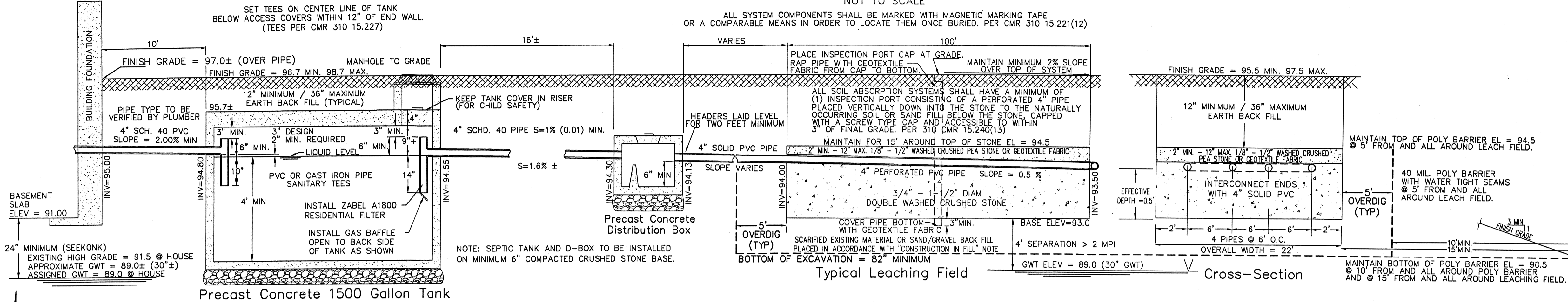


WORK WITHIN 10' OF BUILDING TO BE PERFORMED BY A LICENSED PLUMBER, INVERT PIPE @ BUILDING TO MEET NEW MA STATE PLUMBING CODE.  
(REQUIRES FOUNDATION CORING WITH WATER TIGHT GASKET, PLUMBER TO VERIFY AND INSTALL)  
TOP OF FOUNDATION = 98.50

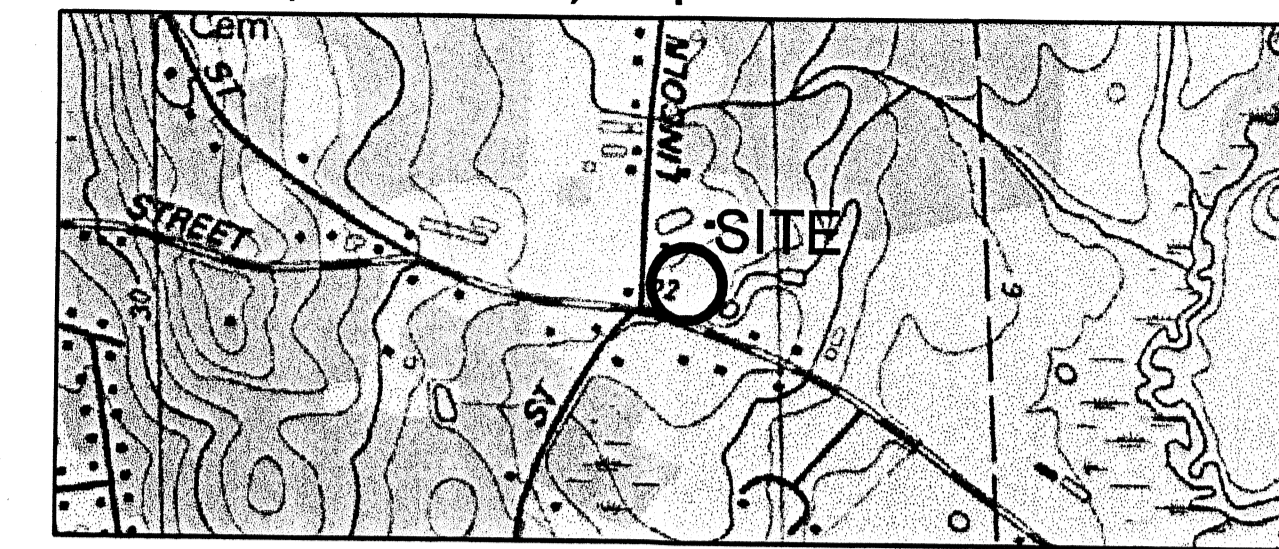
### Cross Section Through Septic System

NOT TO SCALE

ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED. PER CMR 310 15.221(12)



### Location (not to scale) Map



### Notes & Specifications

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF 310 CMR 15 (TITLE V) 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.

1500 GALLON SEPTIC TANK AND DISTRIBUTION BOX SHALL BE STANDARD DUTY DESIGN AS MANUFACTURED BY ROTONDO & SONS, INC. OR APPROVED EQUAL.

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 (RADIALLY) OF THE PROPOSED SYSTEM.

EXCAVATE ALL TOP, SUB AND ANY OTHER SOILS ENCOUNTERED DOWN INTO THE SAND LAYER, 82" MINIMUM AND FOR A HORIZONTAL DISTANCE OF 5' ON ALL SIDES OF THE PROPOSED SYSTEM. BACK FILL TO ELEVATION = 94.5 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 15.255(3) & (5) [CONSTRUCTION IN FILL].

ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON AN ASSIGNED 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.

THE LOT DOES NOT LIE IN A CRITICAL FLOOD HAZARD ZONE.

THE LOT DOES NOT LIE IN AN OVERLAY DISTRICT FOR GROUNDWATER AQUIFER PROTECTION. MAINTAIN 15" MINIMUM SEPARATION FROM PROPOSED WATER SERVICE TO PROPOSED SEPTIC COMPONENTS.

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

SEPTIC SYSTEM DESIGN IS BASED ON PROPOSED COMPONENT LOCATIONS AND ELEVATIONS, DO NOT MODIFY COMPONENT LOCATIONS AND ELEVATIONS, UNLESS APPROVED BY THE BOARD OF HEALTH AND THE ENGINEER.

TEST PITS AND SEPTIC SYSTEM ARE ALL IN SOIL TYPE WC, PER USDA SOIL MAP OVERLAY. THE LIMIT OF DISTURBANCE IS THE HAY BALE LINE.

REFERENCE: APPROVAL NOT REQUIRED PLAN, PREPARED FOR PHILIP J. GAUTHIER III, BY INSITE, DATED: JANUARY 23, 2006, SCALED: 1" = 80'.

THE LOT LIES IN A R-4 ZONING DISTRICT.  
FRONT YARD SETBACK: 50'  
SIDE YARD SETBACK: 35' + 5'/STORY = 40' (2 STORY)  
REAR YARD SETBACK: 80'

### Design Calculations

Average Daily Sewage Flow (gallons per day)  
PROPOSED 5 BEDROOM DWELLING @ 110 GPD PER BEDROOM = 550 GPD

### Septic Tank Sizing (gallons)

200% AVERAGE DAILY FLOW = 2 (550) = 1,100 GALLONS  
5 BEDROOM HOME REQUIRES 1500 GALLON TANK (MINIMUM).

### Leaching Area Calculation

SOIL CLASS I (SANDS, LOAMY SANDS) TP1A PERC RATE IN TP1A WAS 6 MPI  
SOIL CLASS II (SANDY LOAMS, LOAMS) TP1 PERC RATE IN TP1 WAS 34 MPI  
DESIGN FOR 40 MPI PER TITLE V

### Required Minimum Leaching Area:

REQUIRED AREA = 550 GPD / 0.25 GPD / SF = 2,200 SF MINIMUM  
LEACHING FIELD BED: 22' x 100' = 2,200 SF OK  
LEACHING FIELD: 2,200 SF > REQUIRED = 2,200 SF OK  
RESERVE AREA: 22' x 100' = 2,200 SF  
BOTTOM AREA = 2,200 SF > REQUIRED = 2,200 SF OK

### Septic System Design and RDA Plan

Record Lot 1 (Portion of A.P. 16 Lot 20)  
County Street, Seekonk, MA 02771

PREPARED FOR  
**Philip J. Gauthier III**  
648 Lincoln Street, Seekonk, MA 02771

DESIGNED BY: MSF DRAFTED BY: MSF CHECKED BY: SCA APPROVED BY: PDC

PREPARED BY

**INSITE**  
Insite Professional Complex - Suite #1  
1539 Fall River Avenue  
Seekonk, Massachusetts 02771  
Phone: (508) 336-4500  
Fax: (508) 336-4558

Date: February 7, 2007

Scale: 1" = 30'

(HIGHEST EXISTING GRADE IN LEACHING AREA @ ELEV = 91.5) (ASSIGNED 30" GWT @ ELEV = 89.0)

SEEKONK BOARD OF HEALTH  
180 Park Street, Seekonk, MA 02780  
Town of Seekonk, 508-336-2850 Fax: 508-336-0764

Date: 1/11/07 Name: JAMES WHITAKER Street: COUNTY ST  
Address: LINCOLN ST Town: SEEKONK  
Telephone: 508-336-3194 Map/Plot: 20015  
Floor: Now  
Weather Conditions: SUNNY  
Performed By: PHILIP GAUTHIER III  
Witnessed By: PHILIP GAUTHIER III  
Soil Sample No.: 1  
Soil Description: 2B2  
Slope: 1% or less

Depth (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Moisture (%)	Other Structures, Stones
0-12	A	FS LDM	10YR 7/3	10	
12-24	B	FS LDM	10YR 7/3	10	
24-36	C	FS LDM	10YR 7/3	10	
36-48	C	FS LDM	10YR 7/3	10	

PERCOLATION TEST

Time (min)	Water Level (inches)	Rate (inches/hr)
10	10.0	0.0
20	10.0	0.0
30	10.0	0.0
40	10.0	0.0
50	10.0	0.0
60	10.0	0.0
70	10.0	0.0
80	10.0	0.0
90	10.0	0.0
100	10.0	0.0

ASSESSMENT OF DEEP HOLE: Hole # 1 SUITABLE  
Hole # 2 SUITABLE

Soil Evaluation and Perc Test TP1A

Modified DEP Forms 11 & 12 - Soil Suitability Assessment & Percolation Test for On-Site Sewage Disposal  
Massachusetts City or Town: SEEKONK

OnSite  
CLIENT: PHILIP GAUTHIER III  
ADDRESS: 648 LINCOLN STREET  
TOWN: SEEKONK  
PHONE: 508-336-3194  
WEATHER: MAPLOT  
REPAIR: NEW  
PERFORMED BY: PHILIP GAUTHIER III  
WITNESSED BY: PHILIP GAUTHIER III  
ELEVATION CO.: 91.5  
SOIL SAMPLE NO.: 1  
VEGETATION: 10YR 7/3  
LAND USE: RESIDENTIAL  
DEPTH TO BEDROCK: 100'  
SLOPE: 2%

DEEP OBSERVATION HOLE LOG

Depth (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Moisture (%)	Other (Structure, Slope, Consistency, % Gravel)
0-12	A	FS LDM	10YR 7/3	10	ORGANIC
12-24	B	FS LDM	10YR 7/3	10	
24-36	C	FS LDM	10YR 7/3	10	
36-48	C	FS LDM	10YR 7/3	10	

PERCOLATION TEST

Time (min)	Water Level (inches)	Rate (inches/hr)
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70	10.0	0.0
80	10.0	0.0
90	10.0	0.0
100	10.0	0.0

ASSESSMENT OF DEEP HOLE: Hole # 1 SUITABLE  
Hole # 2 SUITABLE

Soil Evaluations and Perc Tests TP1 & TP2

Modified DEP Forms 11 & 12 - Soil Suitability Assessment & Percolation Test for On-Site Sewage Disposal  
Massachusetts City or Town: SEEKONK

OnSite  
CLIENT: PHILIP GAUTHIER III  
ADDRESS: 648 LINCOLN STREET  
TOWN: SEEKONK  
PHONE: 508-336-3194  
WEATHER: MAPLOT  
REPAIR: NEW  
PERFORMED BY: PHILIP GAUTHIER III  
WITNESSED BY: PHILIP GAUTHIER III  
ELEVATION CO.: 91.5  
SOIL SAMPLE NO.: 1  
VEGETATION: 10YR 7/3  
LAND USE: RESIDENTIAL  
DEPTH TO BEDROCK: 100'  
SLOPE: 2%

DEEP OBSERVATION HOLE LOG

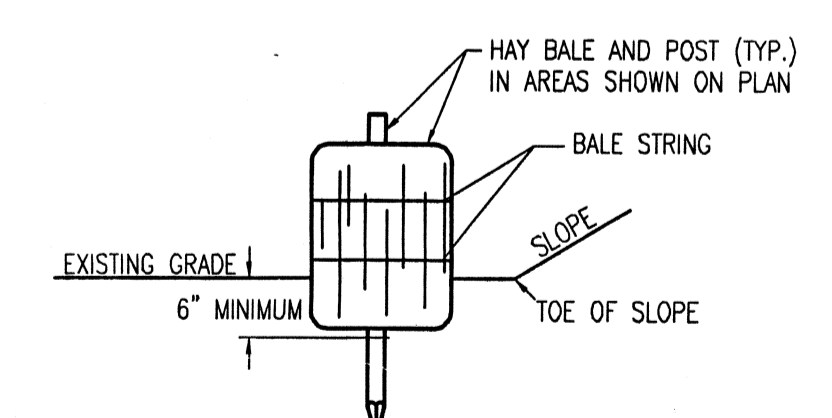
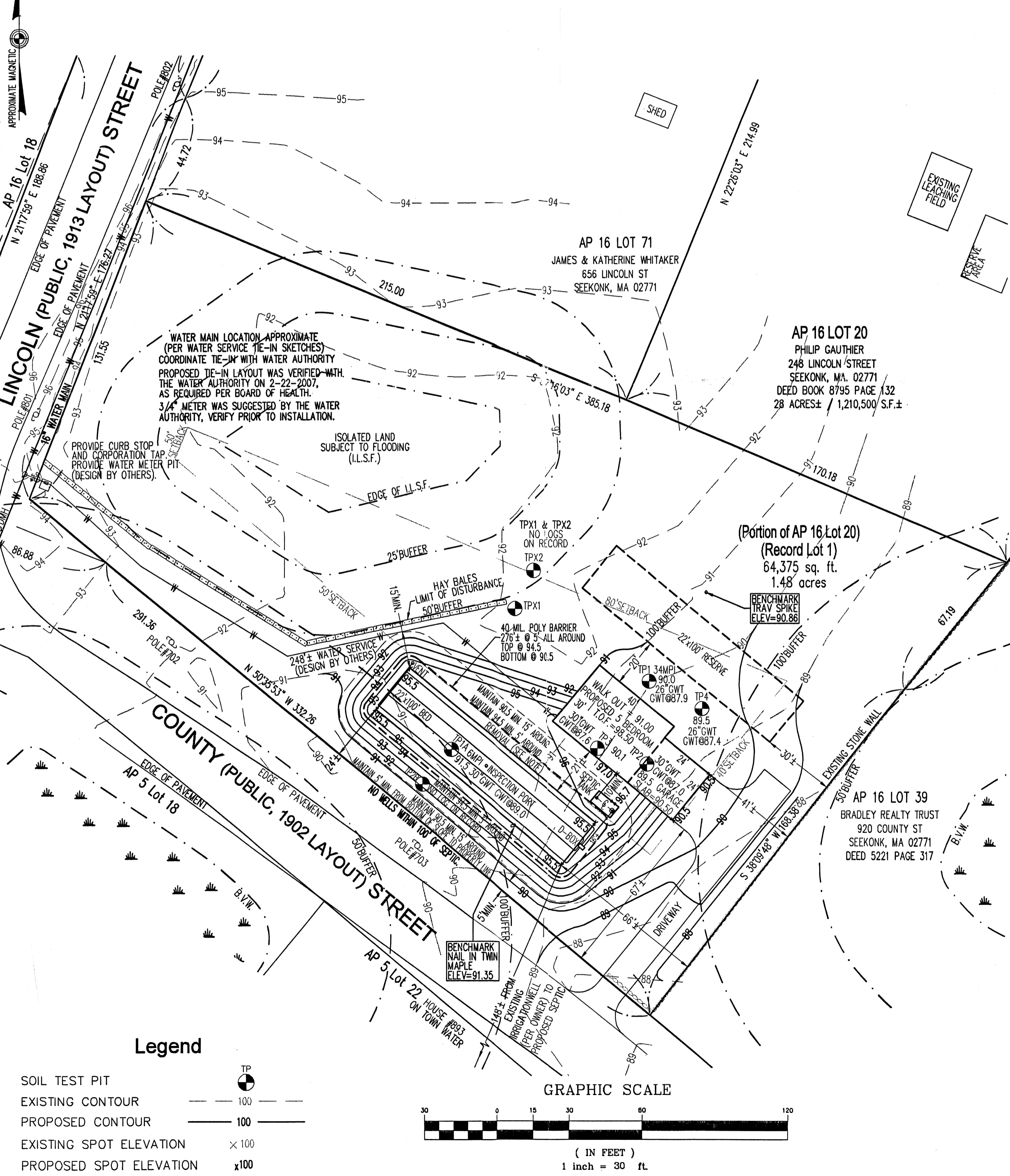
Depth (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Moisture (%)	Other (Structure, Slope, Consistency, % Gravel)
0-12	A	FS LDM	10YR 7/3	10	ORGANIC
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PERCOLATION TEST

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60	10.0	0.0
70	10.0	0.0
80	10.0	0.0
90	10.0	0.0
100	10.0	0.0

ASSESSMENT OF DEEP HOLE: Hole # 1 SUITABLE  
Hole # 2 SUITABLE

Soil Evaluations and Perc Tests TP3 & TP4



NOTES:  
1. HAY BALES ARE TO BE PACED WITHIN A 6" MINIMUM TRENCH  
2. THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO THE TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICES.  
3. BALE STRING SHALL BE RID PARALLEL TO THE GROUND SURFACE.

Hay Bale Detail  
NOT TO SCALE

Legend

- SOIL TEST PIT
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION

GRAPHIC SCALE  
1 inch = 30 ft

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