

APPLICATION

PERCOLATION TESTING

A 50516

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

DISTRICT _____

DATE 2/13/95

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

pg-2 of 2

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER Waller, Victoria

ADDRESS 11661 Fred. Rd EC 21042 PHONE 531-1815

AGENT OR PROSPECTIVE BUYER M/M Robert Lewis + Victoria Waller

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. _____

ROAD AND DESCRIPTION Rt. 144 between Lisbon + Cooksville

TAX MAP 8 PARCEL # 284

SIZE OF LOT 5.0016 TYPE BLDG. SFD
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT.

(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

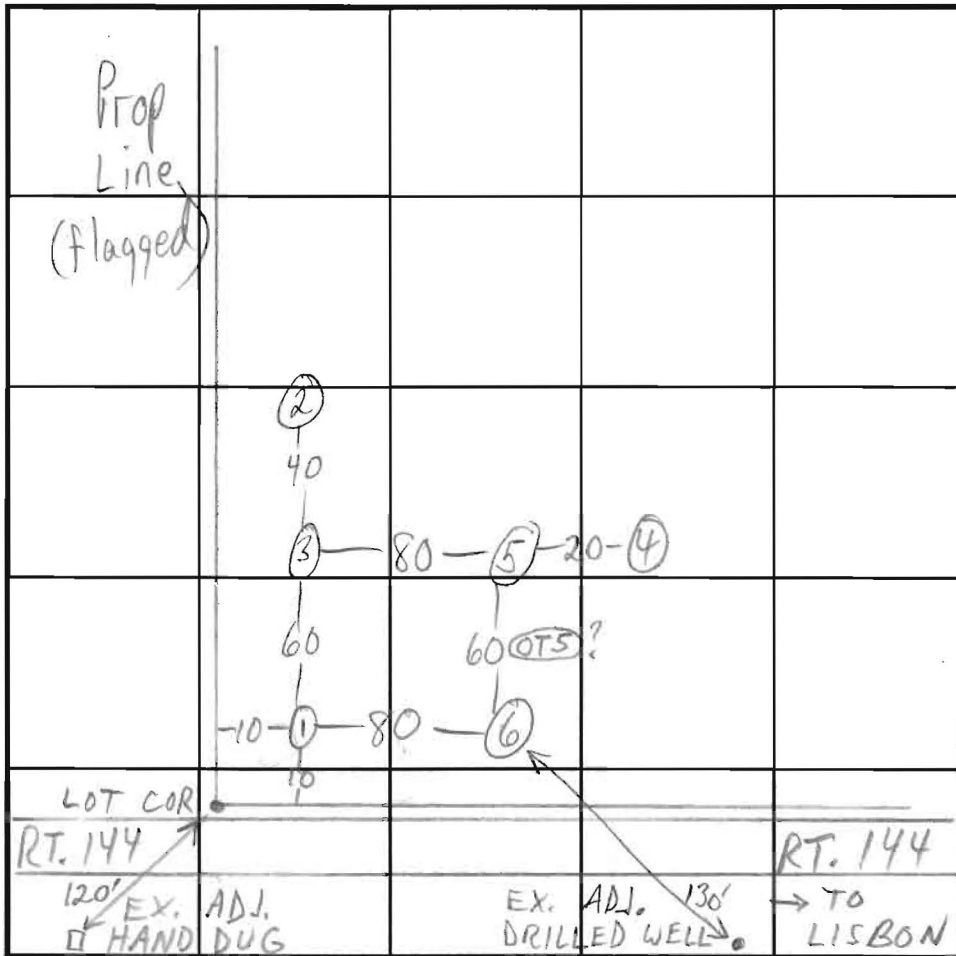
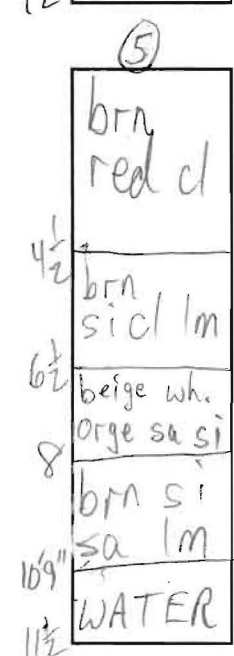
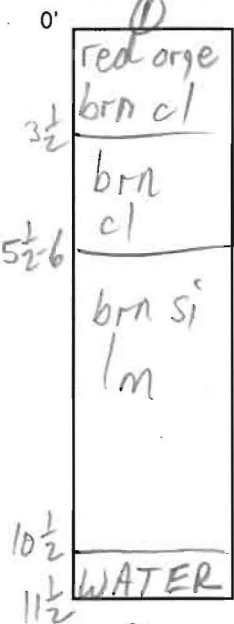
SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

A50516

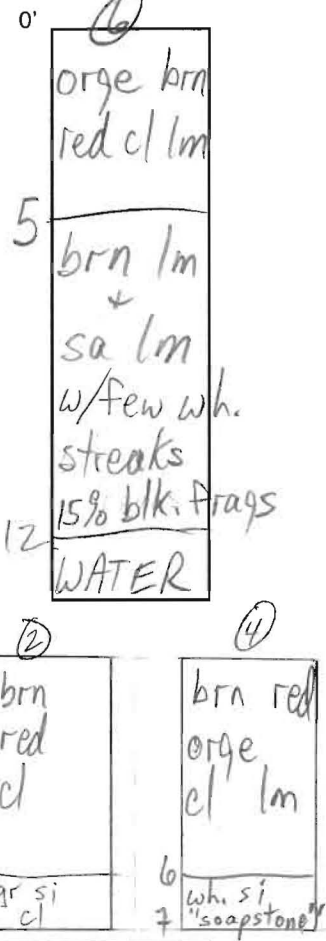
COUNTY #

SOIL PROFILE



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE



DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
2/26/95	1 S	6 1/2'	10:44	10:50	10:50	11:00	10
	1 V	11 1/2'	H ₂ O	@ 10 1/2'			
	2 S	6' 9"	11:08	11:13	NO < 1/4"	DROP FAIL - CLAY	
	2 S	6' 9"	11:16	11:26			
	3 S	6 1/2'	11:41	11:53	11:53	12:15	22
	3 V	12'	H ₂ O	@ 10 1/2'			
	4 S	7'	12:08	12:32	TOO SLOW - FAIL		
	5 S	7'	12:36	12:44	12:44	12:58	14
	5 V	11 1/2'	H ₂ O	@ 10' 9"			
	6 S	7'	1:03	1:04	1:04	1:06	2
	6 V	12'	H ₂ O	@ 12'			

REMARKS _____

TYPE OF SOIL _____

TESTED BY M. Rifkin ALSO PRESENT owner, Mr. Perry

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT./BEDROOM _____

APPLICATION

BACK-UP
APRIL 4, 1995 10:00

PERCOLATION TESTING

A 50576

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

PAGUIBOK OK
EXISTING ABOVE 000 LOT.
PROPOSED TEST AREA
IS VERY LOW,
LIKELY WILL HAVE TO MOVE
HIGHER ON LOT DUE TO
GROUNDWATER ELEV. (CW)

DISTRICT _____

DATE 2/13/95

pg 1 of 2

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER VICTORIA LYNN (PALMER) WALLER

ADDRESS 11661 FREDERICK ROAD, ELLICOTT CITY, MD 21042 PHONE cell 410-292-7782 DAY WORK# (410) 715-7601

AGENT OR PROSPECTIVE BUYER MRS. & MRS. ROBERT LEWIS AND VICTORIA LYNN WALLER EVE HOME# (410) 531-9049-1865
1815

Future ADDRESS 15217 FREDERICK RD., WOODBINE, MD 21797 PHONE SAME AS ABOVE

PROPERTY LOCATION: LOT 4, FREDERICK ROAD, ROUTE 144 S S, WOODBINE, MD 21797

SUBDIVISION N/A LOT NO. 4

ROAD AND DESCRIPTION SEE ATTACHED PHOTO COPIES ON ROUTE 144 BETWEEN COOKSVILLE & LISBON

80% FARM CORN CROPS 20% WOODS AND STREAM
CURRENTLY HARVESTED SINCE OCTOBER 1994

TAX MAP 8 PARCEL # 284 LIBER 2959 FOLIO 0066

HO-3-H-11 319958-04 94 FY

SIZE OF LOT 5.006 ACRES TYPE BLDG. SED
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT. Victoria L. Waller
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

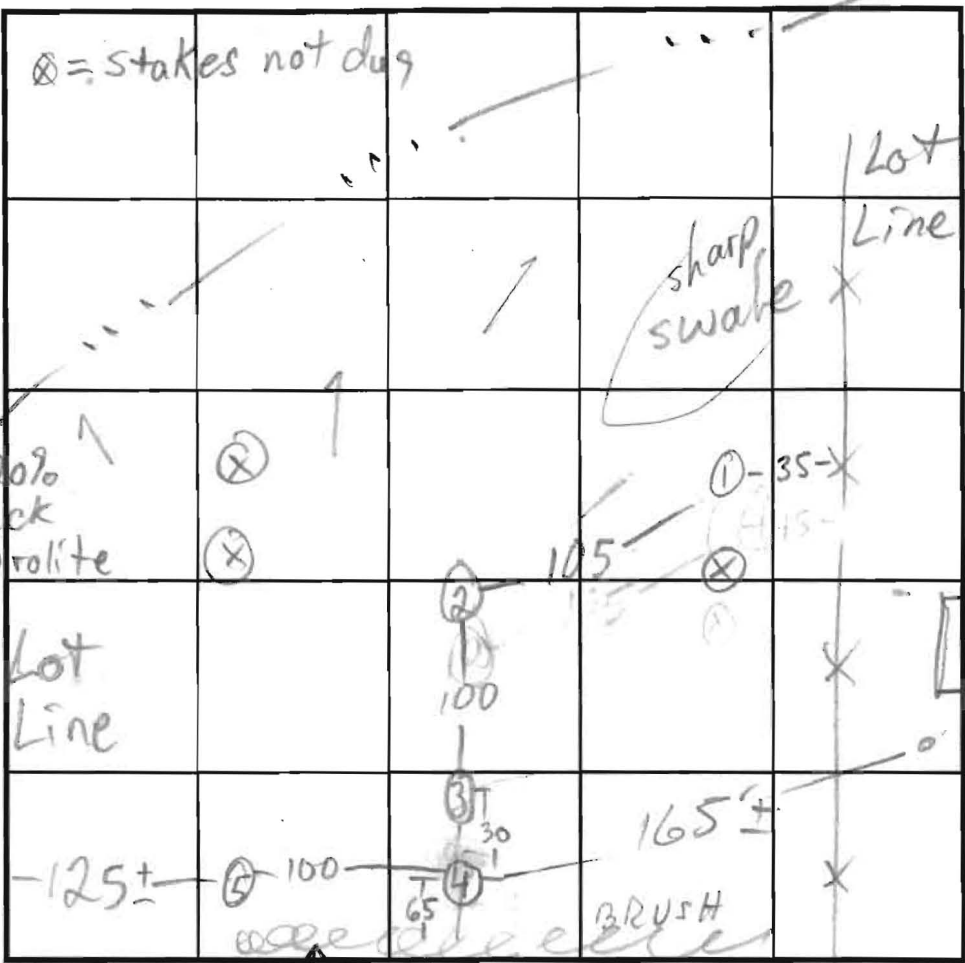
THIS IS NOT A PERMIT

COUNTY #

SOIL PROFILE

0' (2)
 brn
 sac l
 lm
 4
 brn
 si lm
 6
 brn/gray
 wet
 mottled
 silt
 w/wh.
 streaks
 WATER

15-20%
 black
 saprolite



SOIL PROFILE

0' (4)
 brn
 org
 cl lm
 6
 tan/yl
 gray silt
 wet
 25% blk
 saprolite
 8
 BOT

ADJ.
 HOUSE
 EX.
 BURIED
 WELL+

9'9"
 9'9"
 (1)
 brn
 sac l
 lm
 5'9"
 BOT

RT. 144

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

192' to well across road

LISBON

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
3/24/95	1 S	5'9"	10:34	10:42	1/4"	FAIL		
	2 V	9'9"	H ₂ O @ 9'9", WET MOTTLES @ 6'					
	3 V	11'9"	H ₂ O @ 11 1/2"					
	3 SAND	20"	1:35	2:20±	2:20	3:25	65	
	3 M	6'	2:50	2:53	2:53	2:59	6	
	3 S	4'	3:05	3:10	3:10	3:15	5	
	4 S	6'	3:25	3:36	3:36	3:57	21	
	5 S	6'	3:41	4:00	4:00	4:16	16	
			1st inch affected by some soil falling in					
			some hard quartz frags @ 5-6					

REMARKS SIGNS OF H₂O TABLE ON HIGHEST PART OF LOT

TYPE OF SOIL

TESTED BY M. Ripkin ALSO PRESENT Owner, Mr. Perry (hoc)

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME TRENCH WIDTH

INLET DEPTH MAXIMUM BOTTOM DEPTH SQ. FT./BEDROOM

(3)
 red
 brn
 sac l
 lm
 4
 brn sa
 si lm
 6
 brn wet
 15-20%
 blk
 saprolite
 white
 streaks
 11 1/2
 WATER



HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Boyd, M.D., County Health Officer

November 29, 1995

Mr. Al Stroud
c/o A.L.S. Inc.
194 East Main Street
Westminster, MD 21157

RE: Palmer Property
Tax Map 8, Parcel 284

Dear Mr. Stroud:

This office has completed the review of the submitted percolation certification plan for the above referenced property. However, approval cannot be granted at this time.

The proposed septic easement includes one clearly failed test hole (#2), and two other highly questionable test holes (#3 and #4). Therefore, the proposed septic easement is not acceptable as designed.

The only promising hole (#5) was not dug deep enough to make a final determination. Its location is so high on the property that, even if it were to pass, there is concern that sufficient potential passable area does not remain on the property.

While conditions do not look promising, it is premature to fail the lot at this time. Sufficient area for other septic easement proposals may exist, but further testing would be required. This testing, which would not be subject to a test fee, cannot occur until the spring wet season, which starts approximately February 1, 1996. If you choose to proceed with further testing, please submit a revised percolation test plan, including proposed test locations and a proposed well location, to this office.

If you have any questions, please call this office at 313-2640.

Very truly yours,

Mark E. Rifkin
Mark E. Rifkin
Sanitarian
Water and Sewerage Program

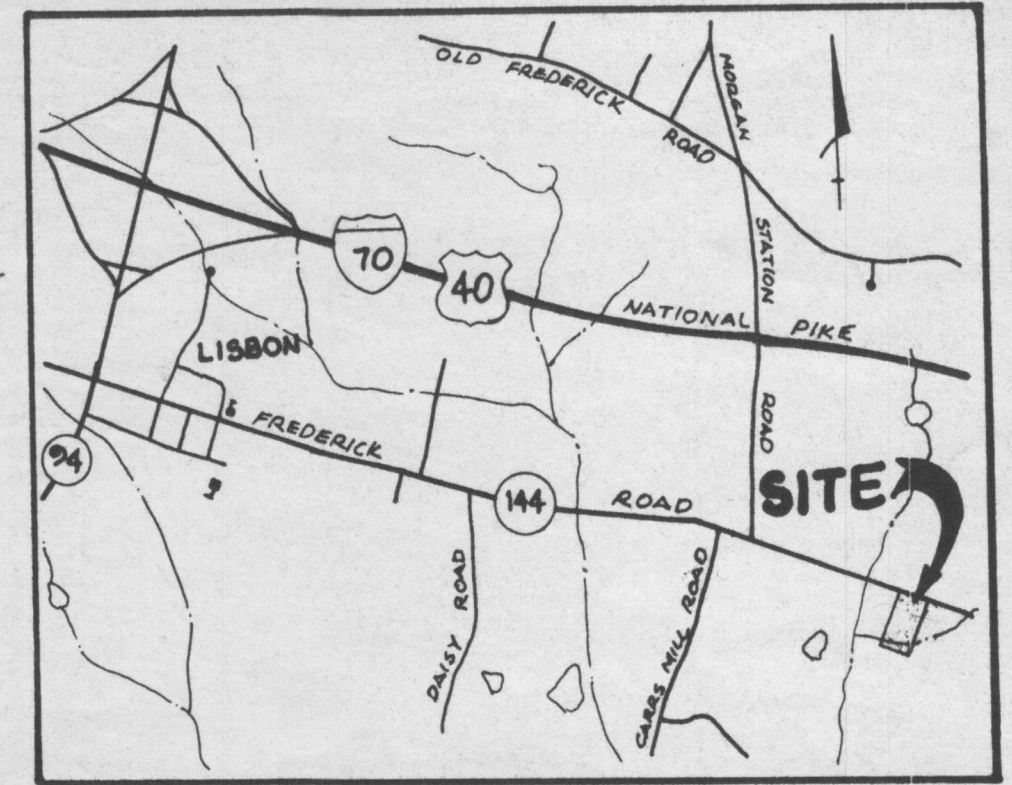
cc: Victoria Lynn Waller
File

MAKE
 INFORMALLY
 DEFINE AN
 AREA LARGE ENOUGH
 FOR TWO MOUNDS — DETERMINE PROCESS FOR FORMAL DECLARATION
 W/ RP
 THEN DISCUSS 6/27/96 (RW)

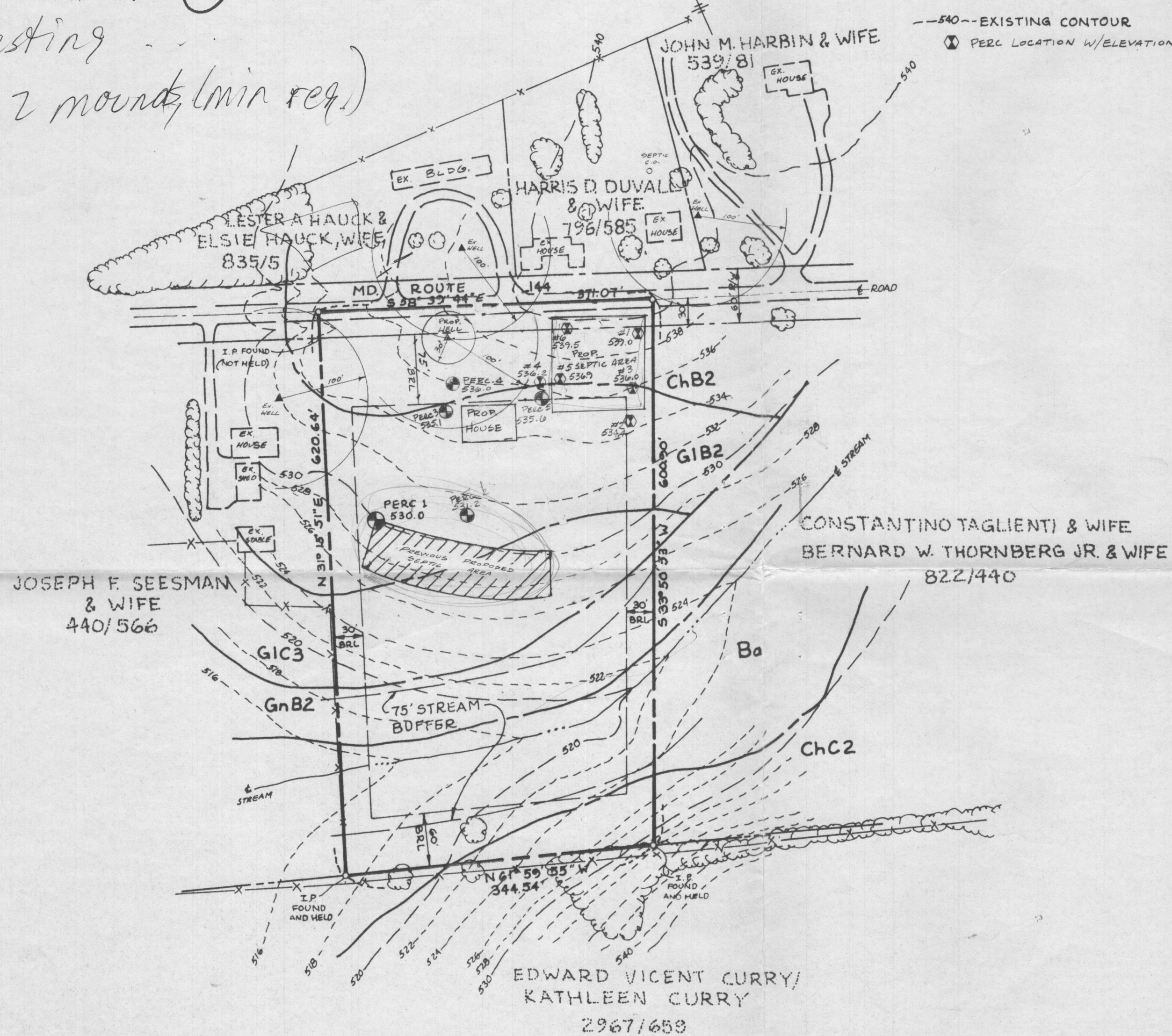
perc testing
 for 2 mounds (min req.)

LEGEND

- PERC LOCATION W/ELEVATION TAKEN 3/24/95
- SOIL GROUP BOUNDARY
- ChB2 SOIL GROUP
- 540--EXISTING CONTOUR
- ⊙ PERC LOCATION W/ELEVATION TAKEN 2/20/96



VICINITY MAP
 SCALE: 1" = 2000'



NOTES:

1. THE PARCEL SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
2. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENT INTO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE PLAT SHALL NOT BE NECESSARY.
3. UNLESS OTHERWISE SHOWN, NO WELLS OR SEWERAGE EASEMENTS ARE LOCATED WITHIN 100 FEET OF THE PROPERTY.
4. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM HOWARD COUNTY 200 SCALE AERIAL TOPOGRAPHICAL MAP WITH FIELD VERIFICATION BY THE ENGINEER.

SOILS DESCRIPTION

- ChB2 - Chester Silt Loam, 3 to 8 percent slopes, moderately eroded. 'B' soil
- ChC2 - Chester Silt Loam, 8 to 15 percent slopes, moderately eroded. 'B' soil
- GnB2 - Glenville Silt Loam, 3 to 8 percent slopes, moderately eroded. 'C' soil
- GIB2 - Glenelg Loam, 3 to 8 percent slopes, moderately eroded. 'B' soil
- GIC3 - Glenelg Loam, 8 to 15 percent slopes, severely eroded. 'B' soil
- Ba - Baile Silt Loam, 'D' soil (Hydric Soil)

SCALE: 1" = 100'

APPROVED:
 FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT.

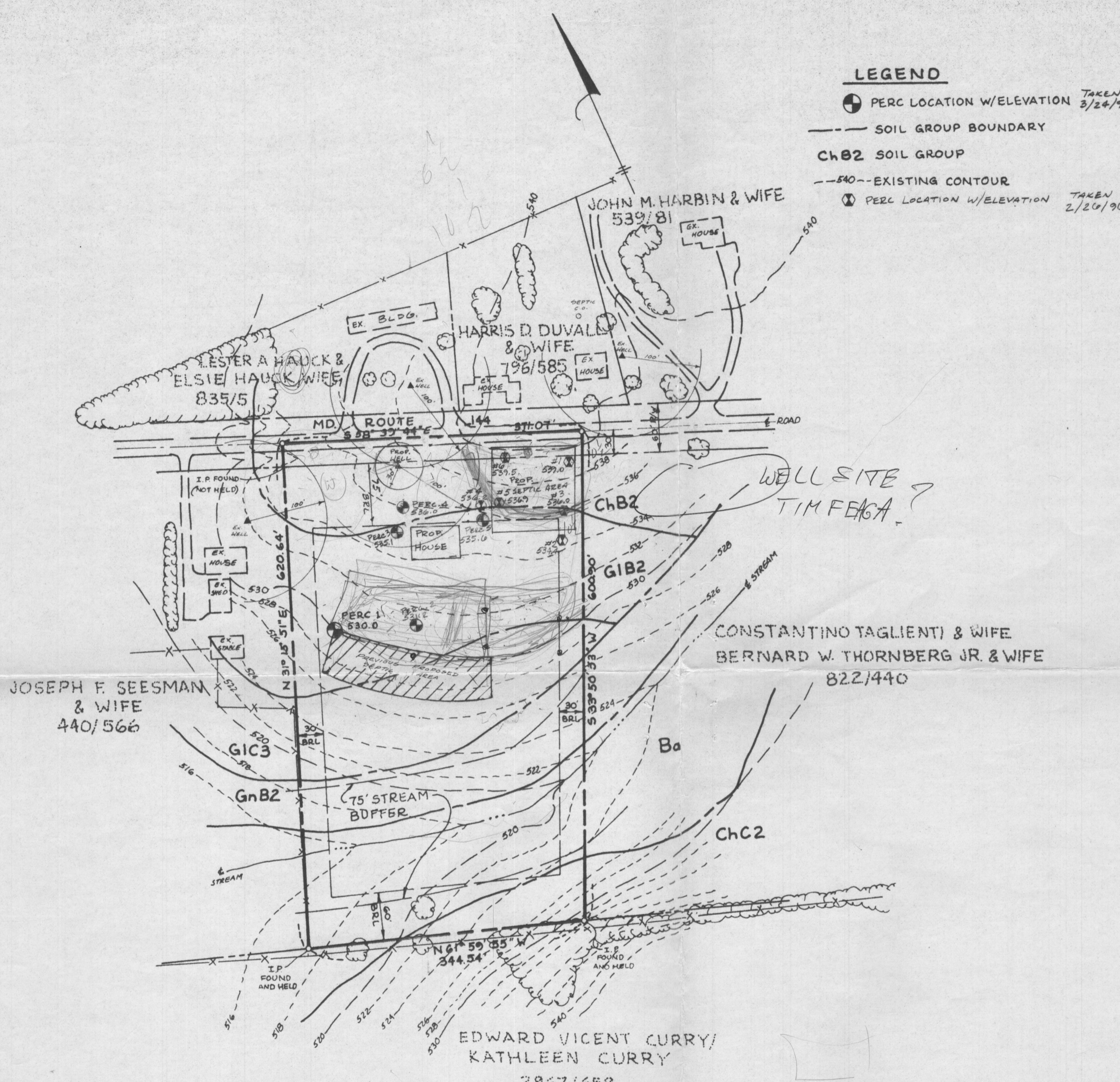
HOWARD COUNTY HEALTH OFFICER DATE

WALLER PROPERTY
 FORMERLY
PALMER PROPERTY
 PERCOLATION CERTIFICATION PLAN

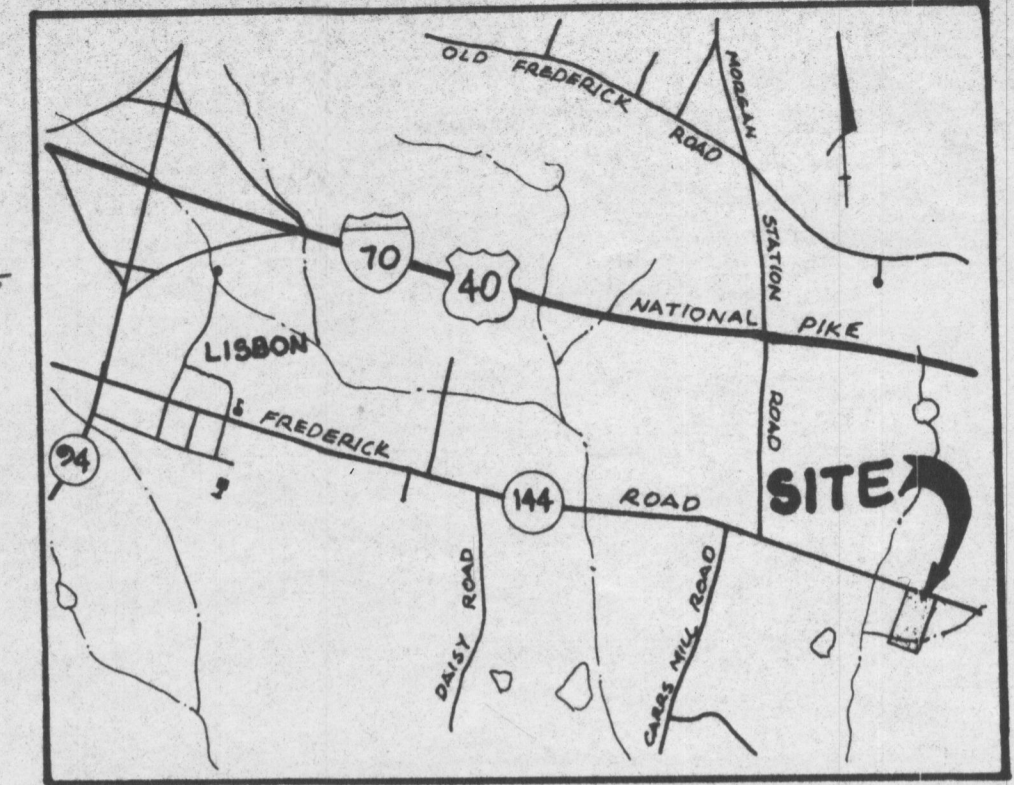
TAX MAP NO. 8 PARCEL 284
 DEED REF 2959/66 TAX ACCT. #04-319958
 4TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

SCALE: 1" = 100' DATE: 11/9/95
 REVISED: 3/21/96 (PERC LOCATIONS SEPTIC AREA)

A.L.S. INC.
 194 EAST MAIN STREET
 WESTMINSTER, MD. 21157
 (410) 857-0822



- LEGEND**
- PERC LOCATION W/ELEVATION TAKEN 3/24/95
 - SOIL GROUP BOUNDARY
 - ChB2 SOIL GROUP
 - 540- EXISTING CONTOUR
 - ⊙ PERC LOCATION W/ELEVATION TAKEN 2/20/90



VICINITY MAP
SCALE: 1" = 2000'

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SCALE: 1" = 100'

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT.

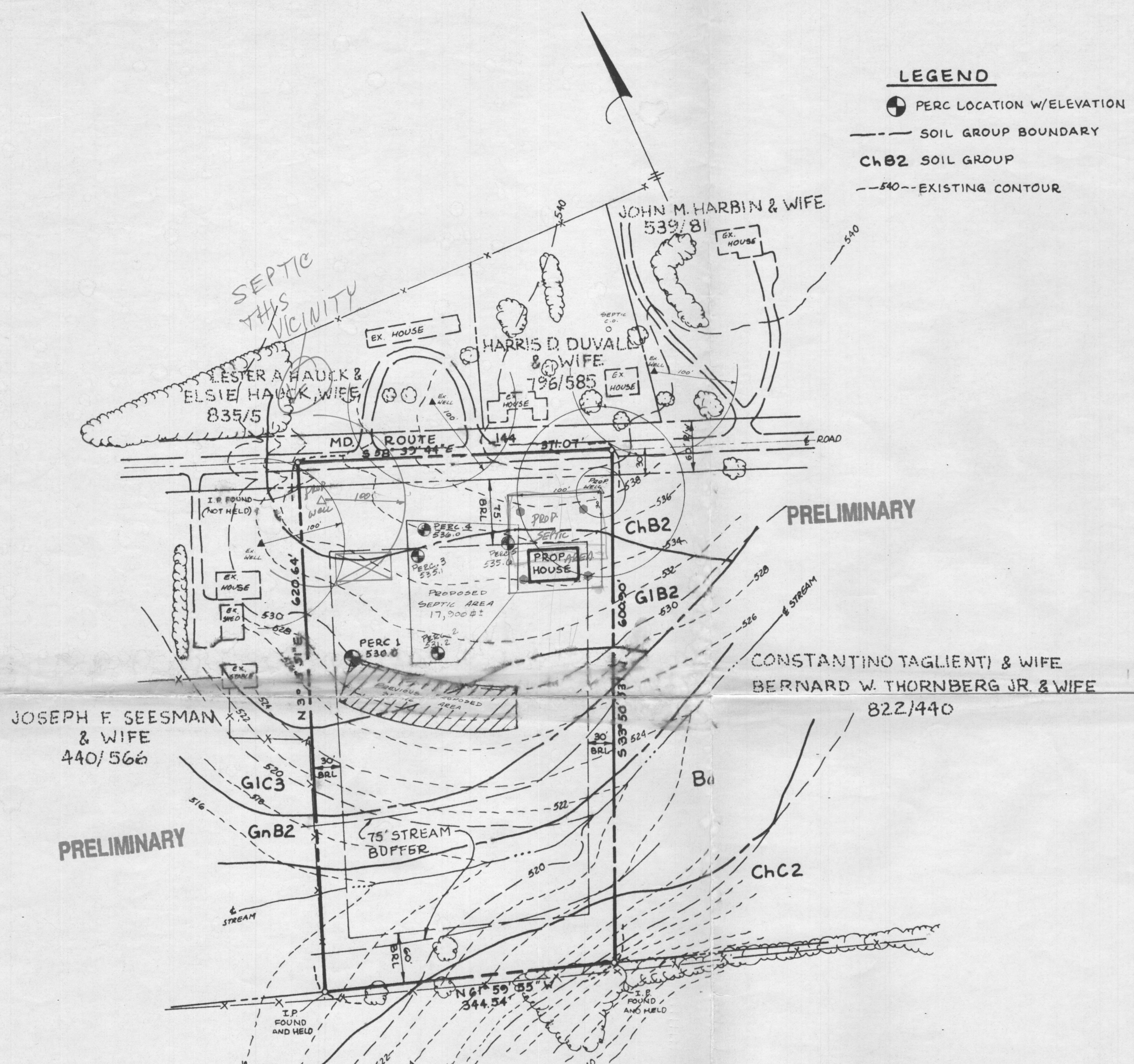
HOWARD COUNTY HEALTH OFFICER DATE

WALLER PROPERTY
FORMERLY
PALMER PROPERTY
PERCOLATION CERTIFICATION PLAN

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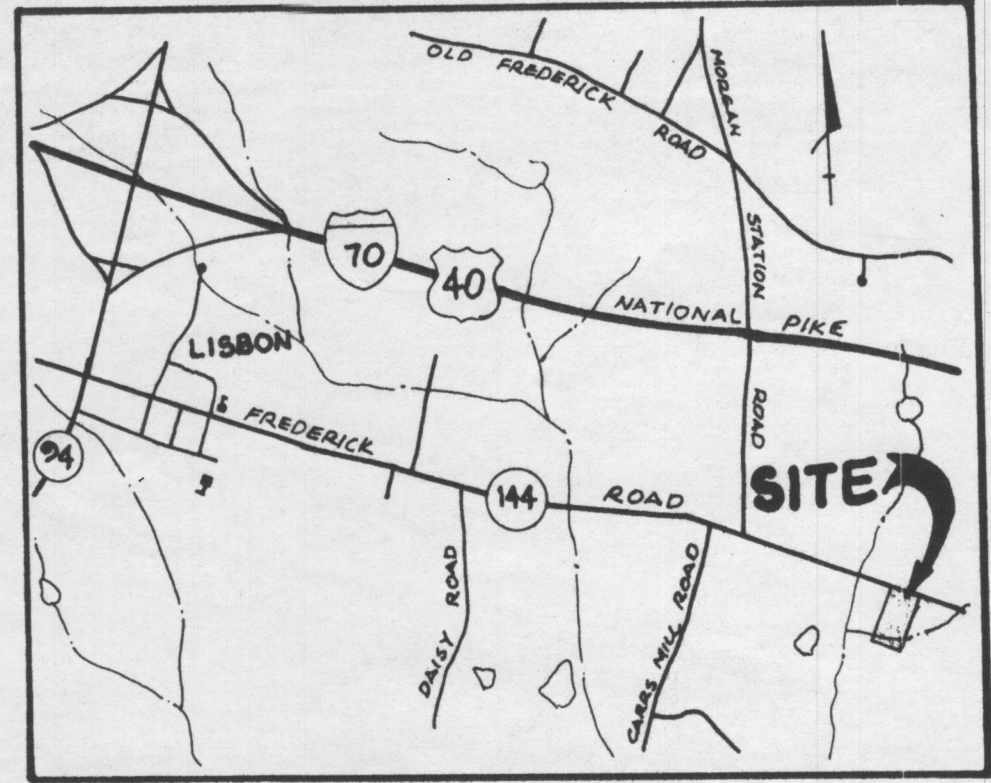
SCALE: 1" = 100' DATE: 11/9/95
 REVISED: 3/21/96 (PERC LOCATIONS SEPTIC AREA)

A.L.S. INC.
 194 EAST MAIN STREET
 WESTMINSTER, MD. 21157
 (410) 857-0822



LEGEND

- PERC LOCATION W/ELEVATION
- SOIL GROUP BOUNDARY
- ChB2 SOIL GROUP
- - -540-- EXISTING CONTOUR



VICINITY MAP
SCALE: 1" = 2000'

NOTES:

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APPROVED:
 FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT.

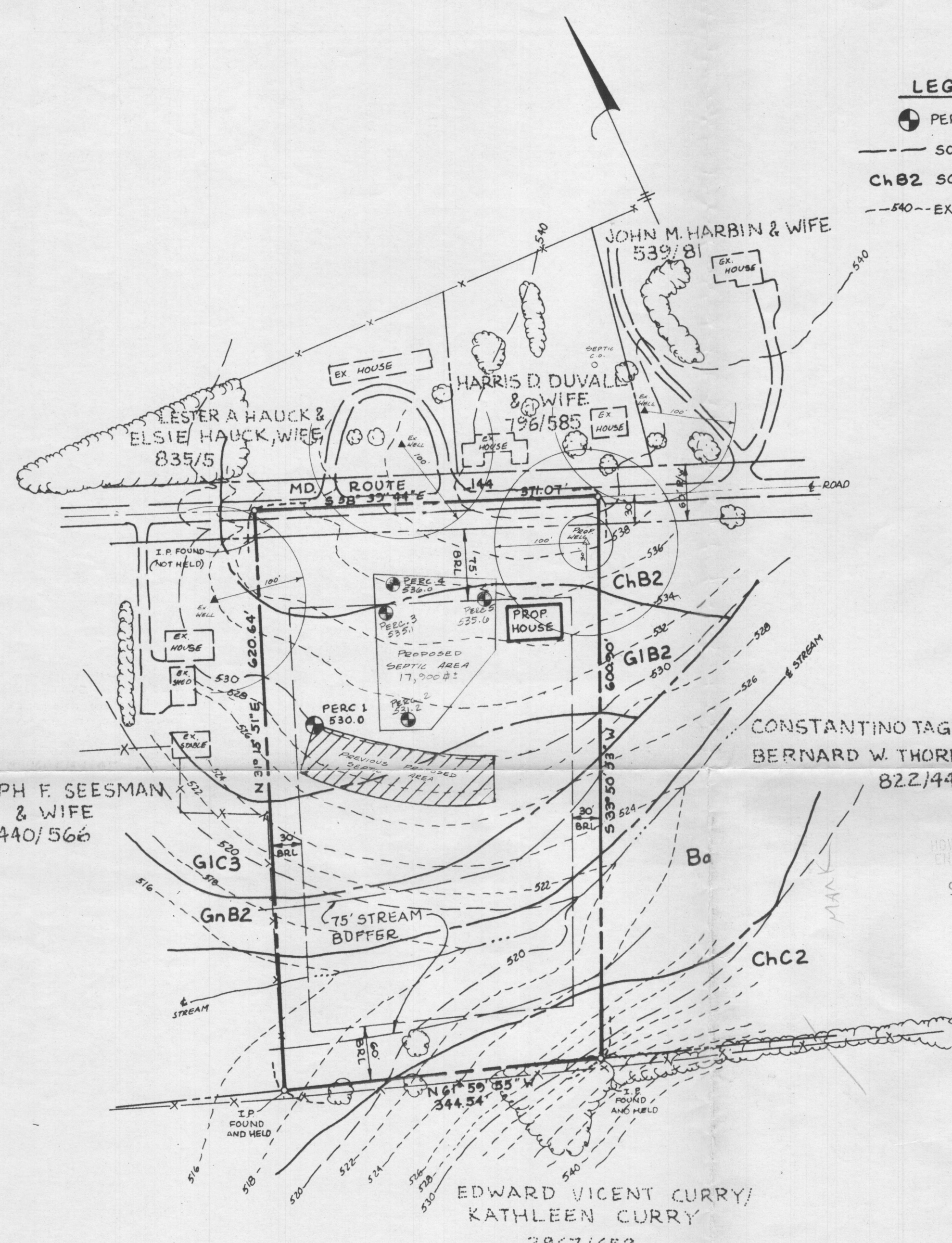
HOWARD COUNTY HEALTH OFFICER DATE

PRELIMINARY

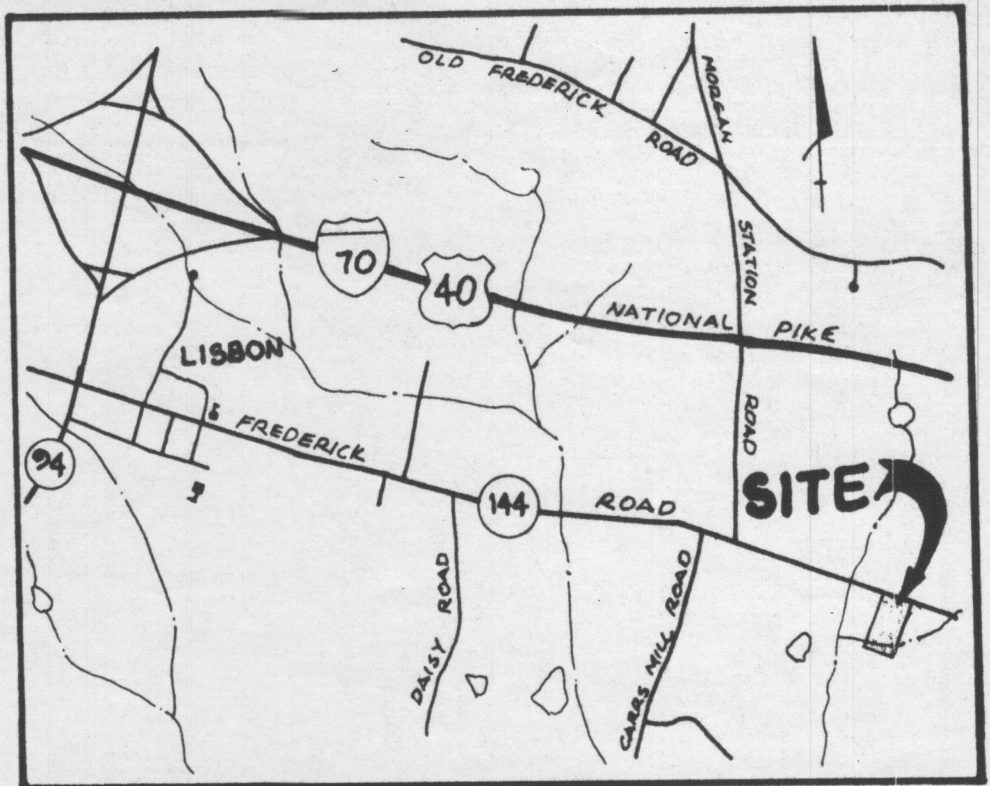
WALLER PROPERTY
 FORMERLY
PALMER PROPERTY
 PERCOLATION CERTIFICATION PLAN

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 SCALE: 1" = 100' DATE: 11/9/95

A.L.S. INC.
 194 EAST MAIN STREET
 WESTMINSTER, MD. 21157
 (410) 857-0822



LEGEND
 ● PERC LOCATION W/ELEVATION
 --- SOIL GROUP BOUNDARY
 ChB2 SOIL GROUP
 - - - 540 -- EXISTING CONTOUR



VICINITY MAP
 SCALE: 1" = 2000'

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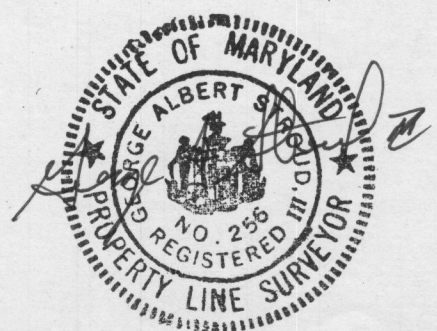
RECEIVED
 HOWARD CO. HEALTH DEPT.
 ENVIRONMENTAL HEALTH
 95 NOV 13 PM 1:47

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SCALE: 1" = 100'

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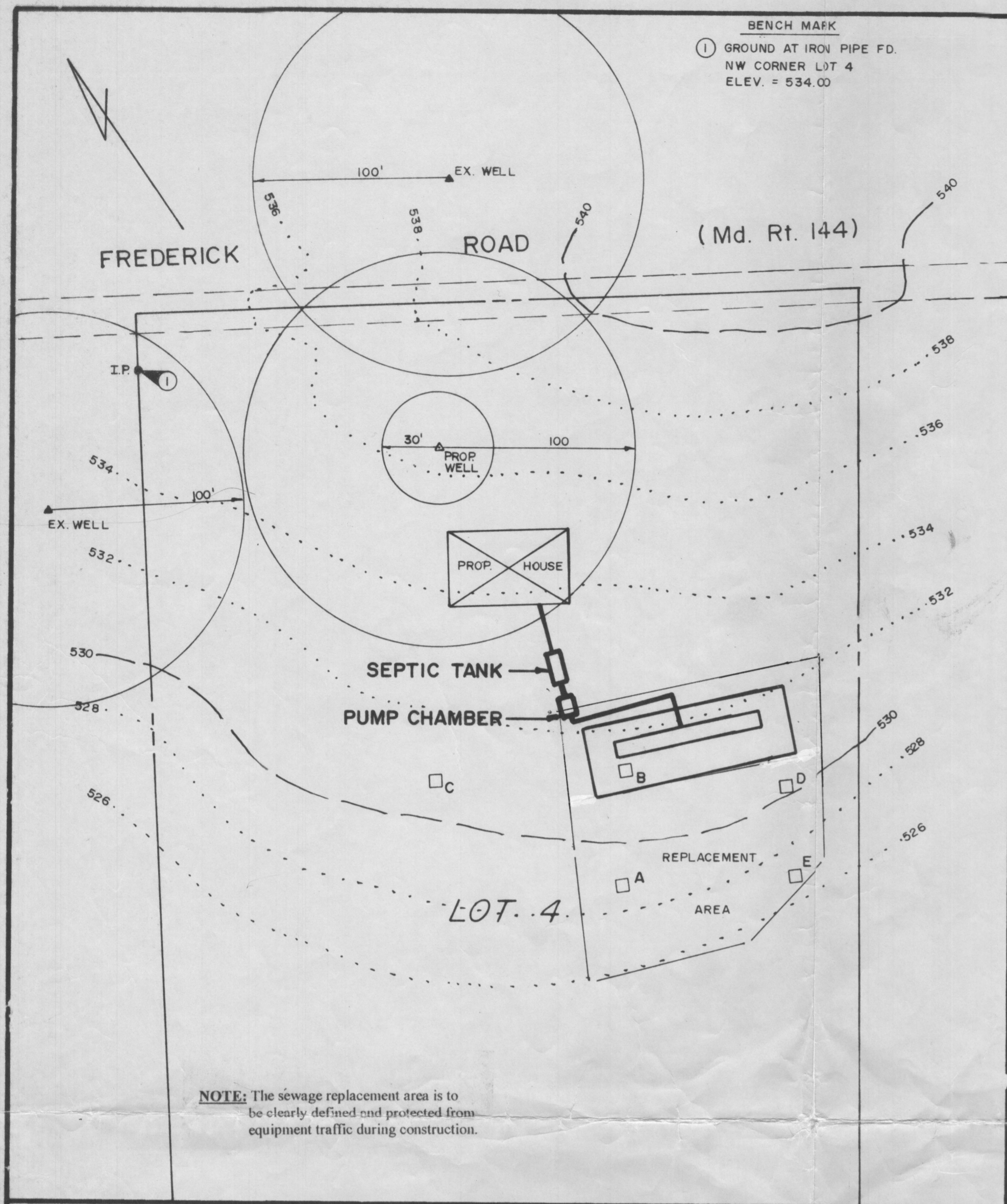
HOWARD COUNTY HEALTH OFFICER DATE



A.L.S. Inc.
 194 EAST MAIN STREET
 WESTMINSTER, MD. 21157
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WALLER PROPERTY
 FORMERLY
PALMER PROPERTY
 PERCOLATION CERTIFICATION PLAN

TAX MAP NO. 8 PARCEL 284
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 4TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 SCALE: 1" = 100' DATE: 11/9/95



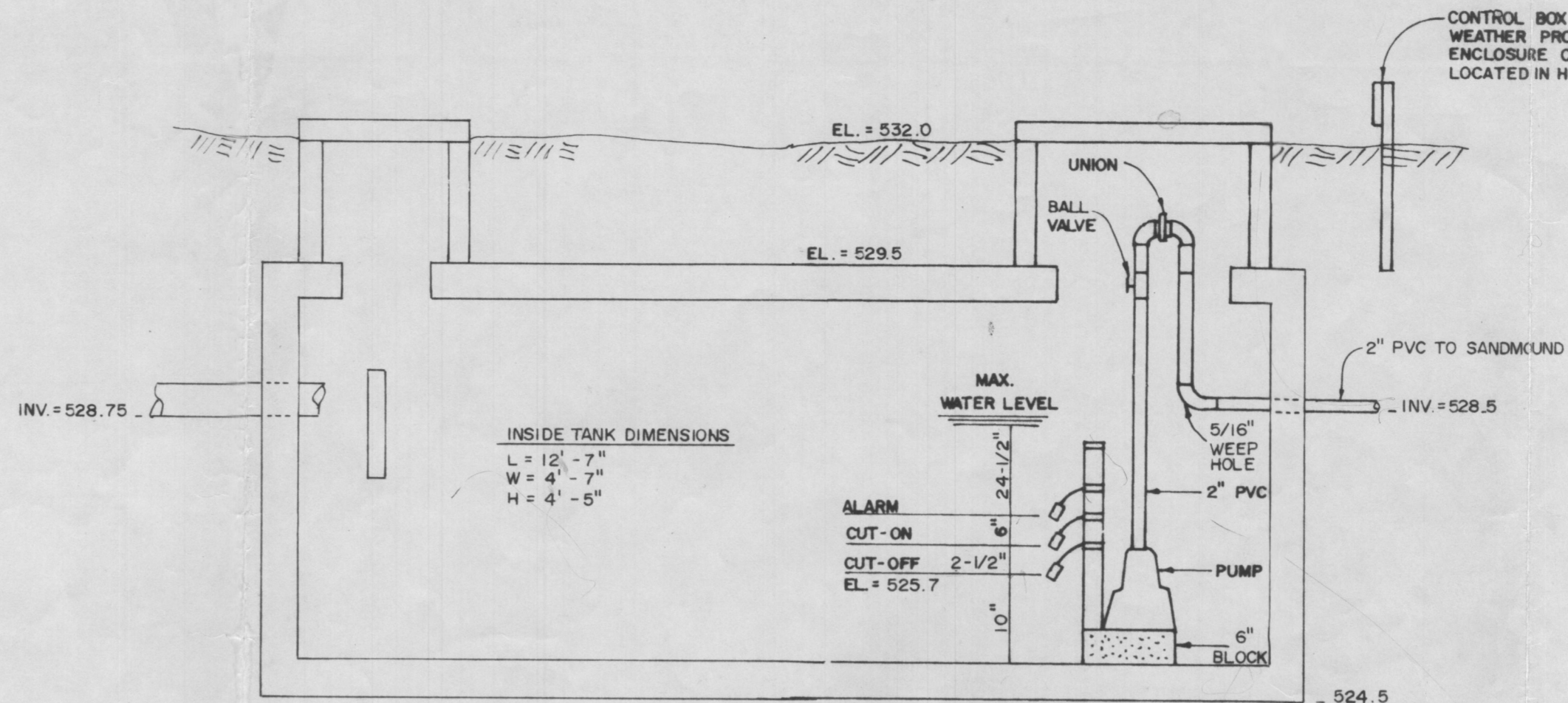
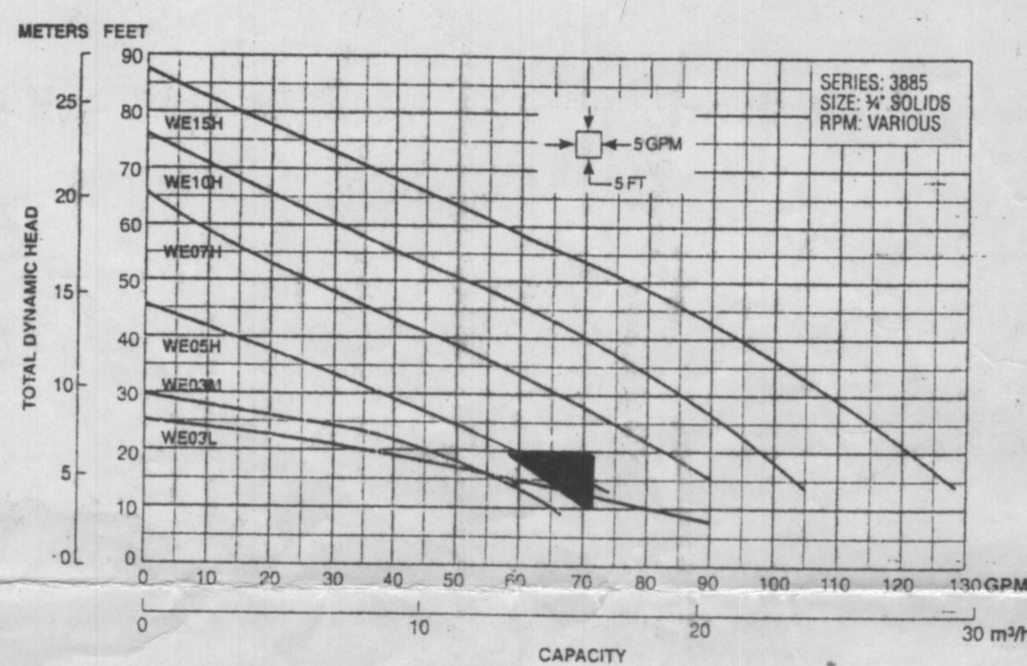
SITE PLAN
SCALE: 1" = 50'

DESIGN CRITERIA

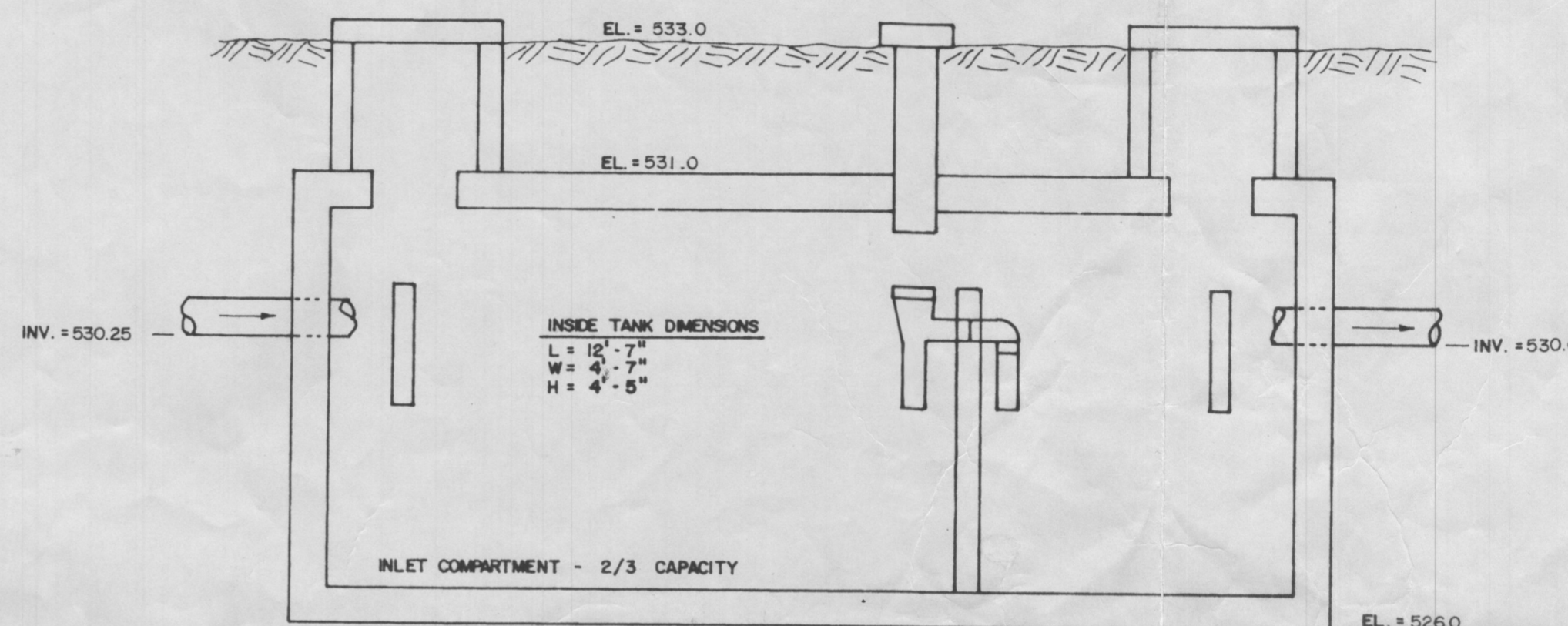
3 Bed Rooms x 150 = 450 GPD
 Loading Rate: 1.0 GPD/Sq. Ft. = 450 Sq. Ft.
 Bed 6' x 77' = 462 Sq. Ft.
 1 - 1,500 GAL. Compartmented Top Seam Septic Tank
 1 - 1,500 GAL. Top Seam Pump Chamber
 Pump Rate - 44 Perforations @ 1.63 GPM - 72 GPM
 Mound Width = 33' - 6"
 Mound Length = 103' - 10"

SPECIFICATIONS

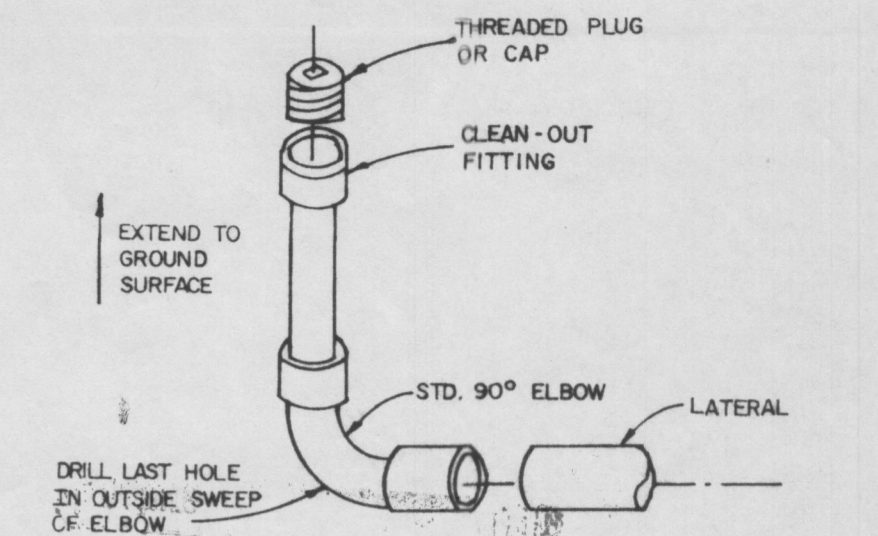
- Tank measurements and elevations are based on septic tanks and pump chambers as manufactured by Mayer Bros., Elkridge, Md. (410) 796-1434.
- All piping to be schedule 40 PVC of sizes shown.
- The force main from the pump chamber to the sand bed is to be installed with a continuous slope back to the chamber to assure complete drainage following each pump cycle.
- A submersible pump to remove 72 GPM against 20' TDH to be provided. Pump to be a Goulds Model 3885-WE-07H - 3/4 h.p., or equal.
- A test of the pump system and distribution piping is required prior to covering the system.
- The High Water Alarm is to be on a separate circuit.
- Alarm to be located in the house.
- Stone bed to be 1/2" to 2 1/2" clean gravel. Crushed line stone is not acceptable.



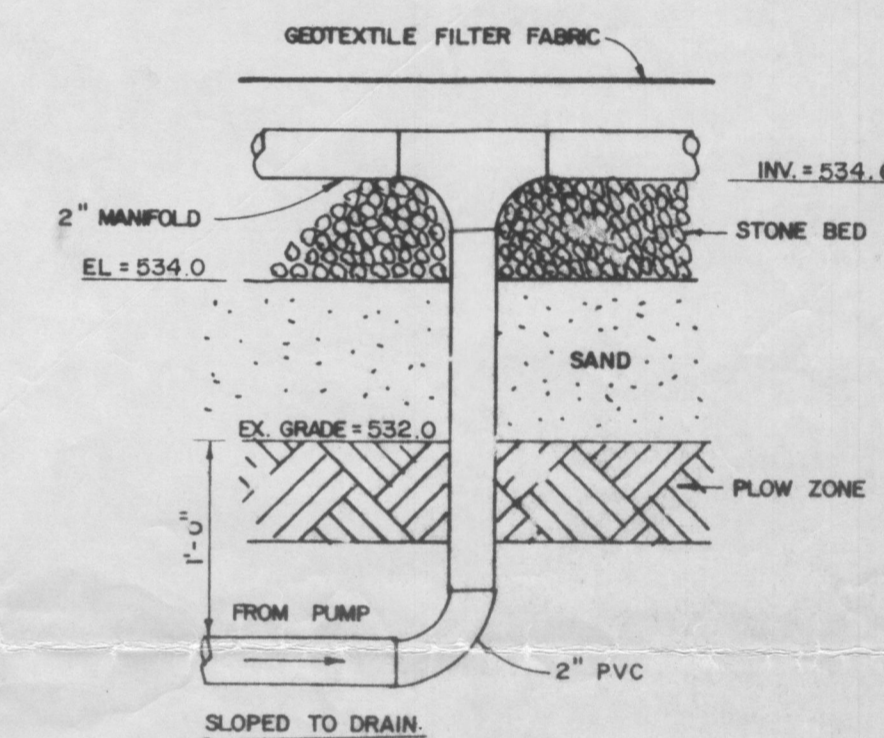
TOP SEAM 1500 GAL. PUMP CHAMBER
NOT TO SCALE



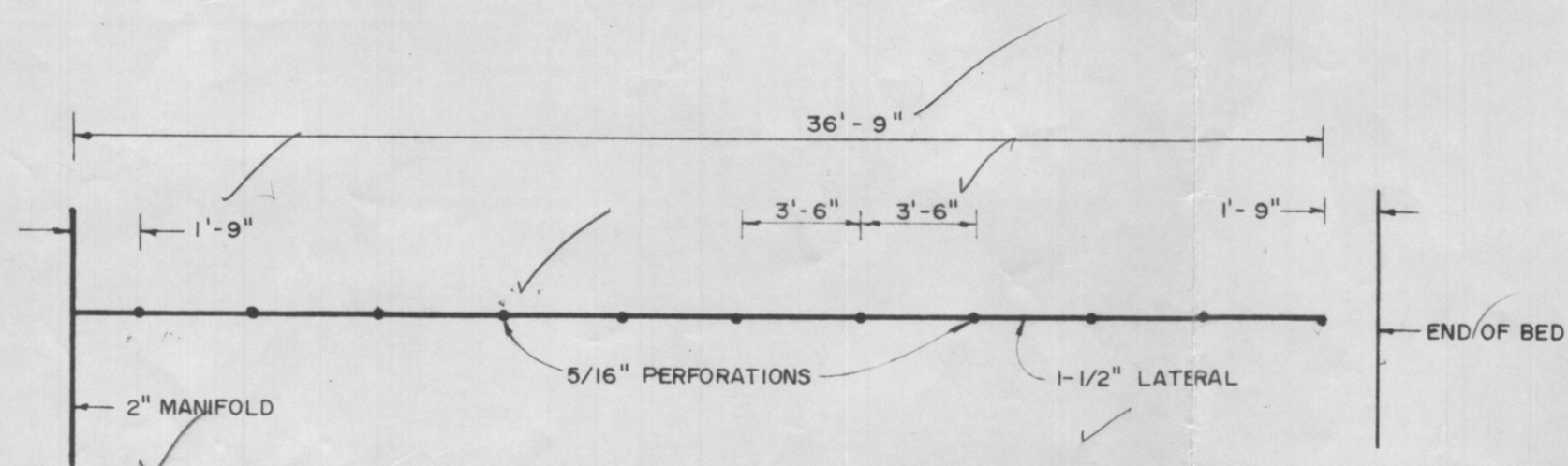
TOP SEAM 1500 GAL. SEPTIC TANK
2000 NOT TO SCALE



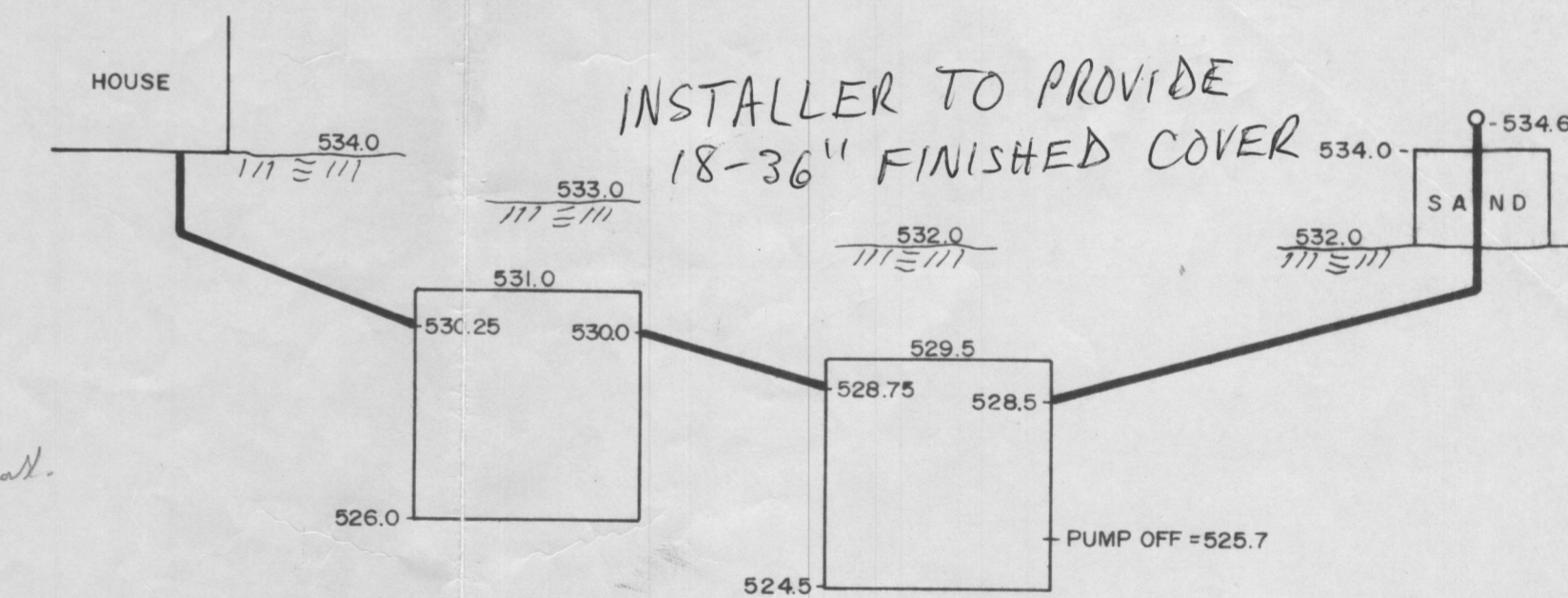
LATERAL END TURN-UP
USE ON LATERAL FARTHEST FROM PUMP
AND ON LATERALS DIAGONALLY ACROSS BED
NOT TO SCALE



SUPPLY LINE - MANIFOLD DETAIL
NOT TO SCALE

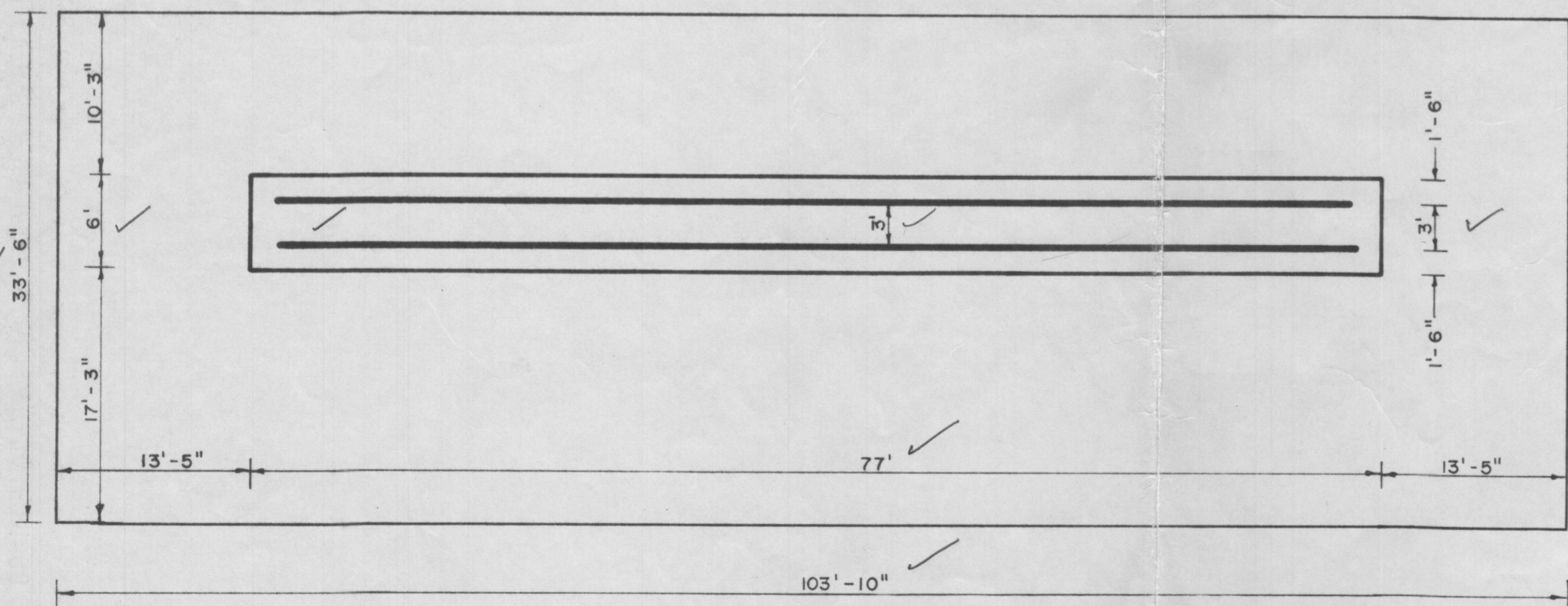


LATERAL DETAIL
SCALE: 3/16" = 1'

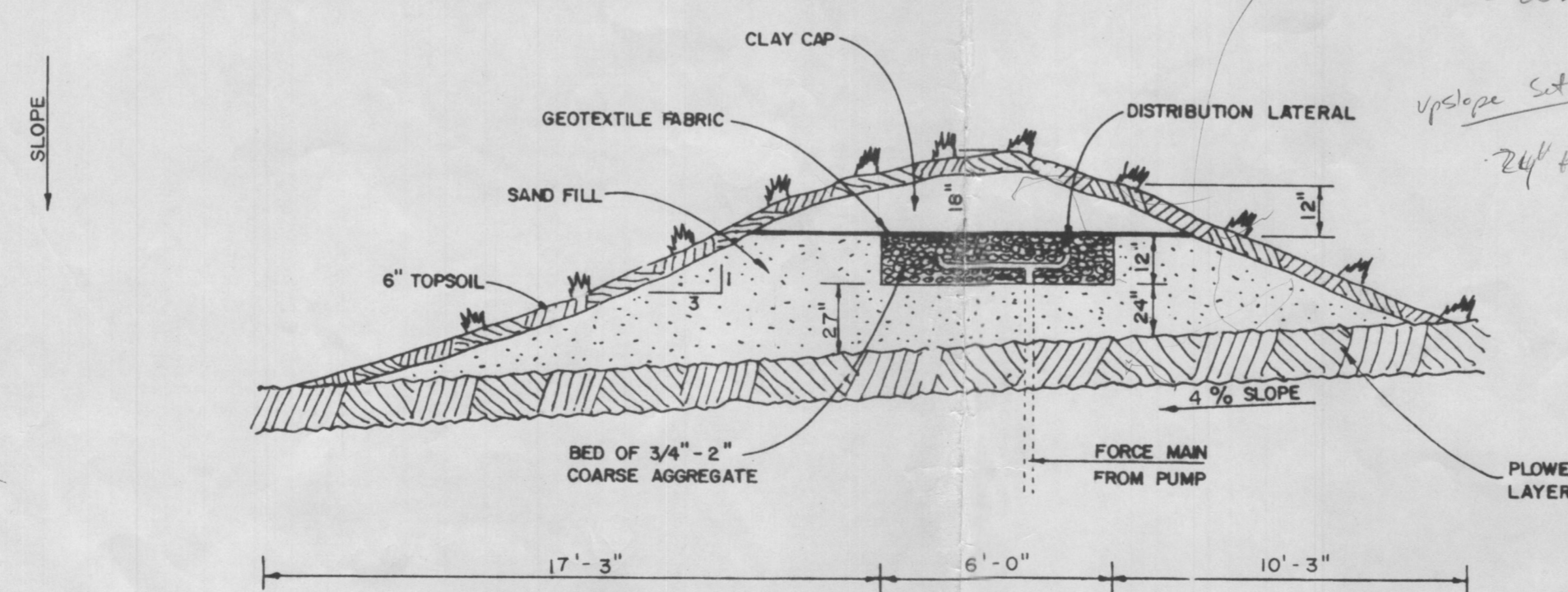


- min. 12" cap @ center w/ 6" topsoil.
 - min. 6" cap @ ends.

side slope setback
 $25.5' + 28' \times 3 = 160.5' / 12' = 13.375'$
 upslope setback
 $24' + 22' \times 3 \times (.87) = 122.82' / 12' = 10.23'$



MOUND LAYOUT
SCALE: 1" = 10'



MOUND DESIGN
NOT TO SCALE

HYDRAULIC PROFILE
SCALE: 1/4" = 1' H.N.T.S.

Approved Septic System Plan
 Howard County Health Department

Signature: *Mark L. Allen* Date: 5/17/04

S/E ENGINEERING, INC.
 WESTMINSTER, MARYLAND

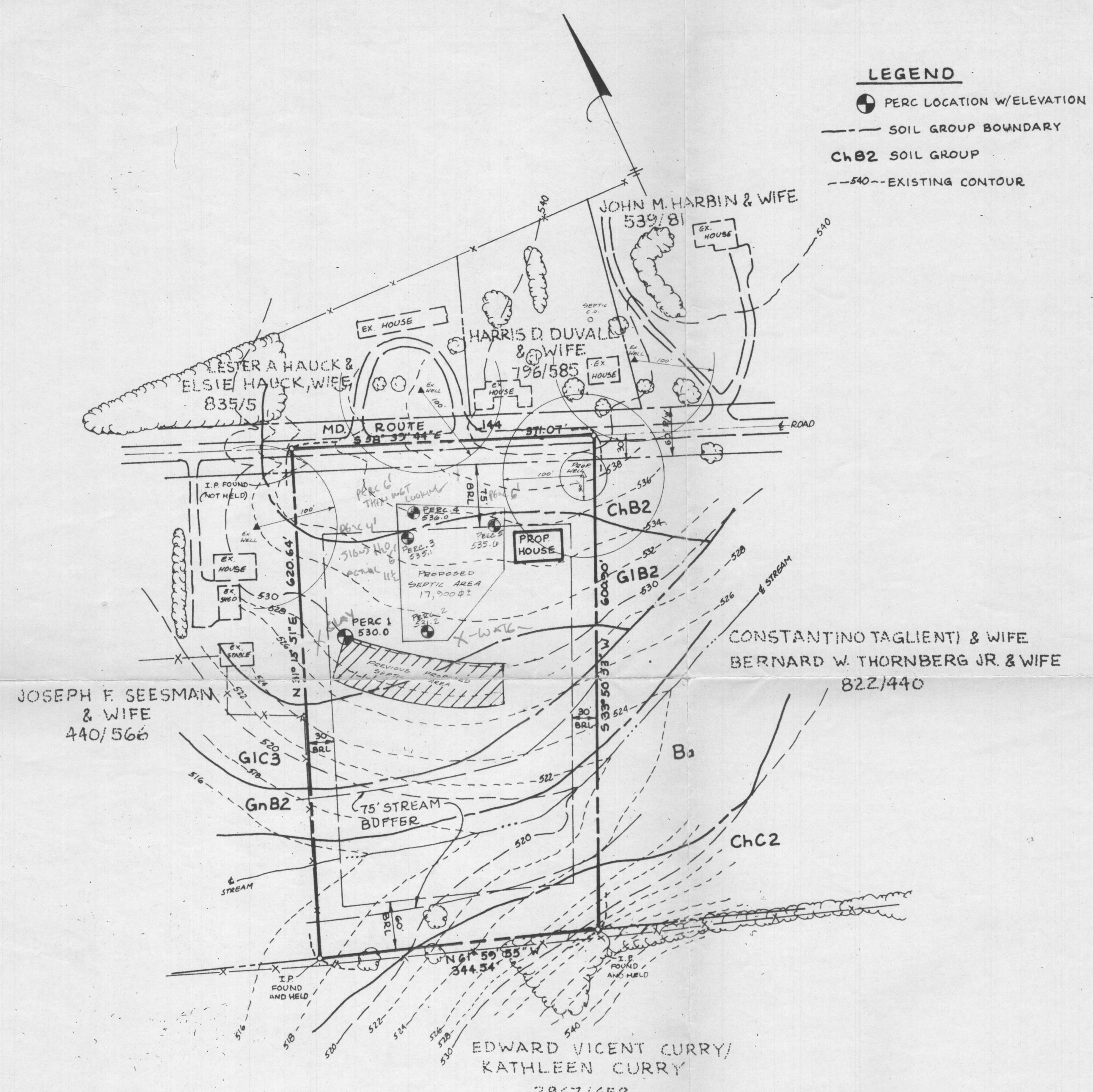
SCALE: AS SHOWN APPROVED: DRWN: RSK
 DATE: APRIL, 2003 JDC DES: JDC

LOT 4 FREDERICK ROAD WOODBINE, MD.
 HOWARD COUNTY

SANDMOUND

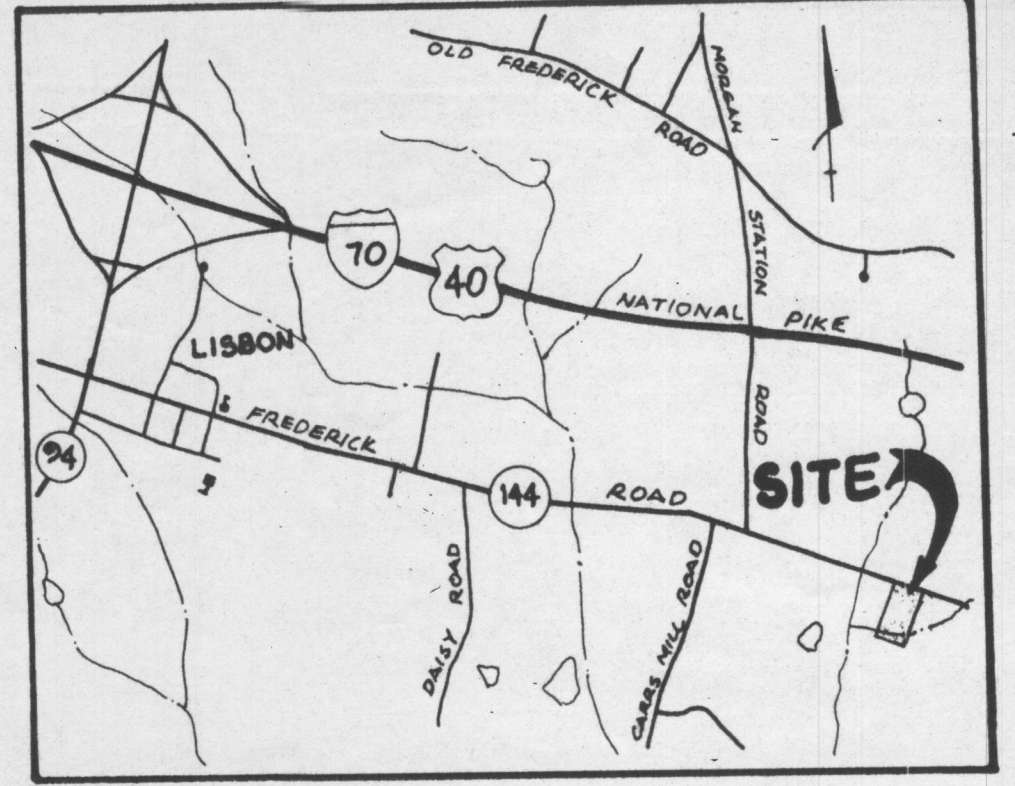
DRAWING NO. OF

James W. Clise



LEGEND

- ⊕ PERC LOCATION W/ELEVATION
- SOIL GROUP BOUNDARY
- ChB2 SOIL GROUP
- 540--EXISTING CONTOUR



VICINITY MAP
SCALE: 1" = 2000'

NOTES:

1. THE PARCEL SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
2. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENT INTO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE PLAT SHALL NOT BE NECESSARY.
3. UNLESS OTHERWISE SHOWN, NO WELLS OR SEWERAGE EASEMENTS ARE LOCATED WITHIN 100 FEET OF THE PROPERTY.
4. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM HOWARD COUNTY 200 SCALE AERIAL TOPOGRAPHICAL MAP WITH FIELD VERIFICATION BY THE ENGINEER.

SOILS DESCRIPTION
 ChB2 - Chester Silt Loam, 3 to 8 percent slopes, moderately eroded. 'B' soil
 ChC2 - Chester Silt Loam, 8 to 15 percent slopes, moderately eroded. 'B' soil
 GnB2 - Glenville Silt Loam, 3 to 8 percent slopes, moderately eroded. 'C' soil
 GIB2 - Glenelg Loam, 3 to 8 percent slopes, moderately eroded. 'B' soil
 GIC3 - Glenelg Loam, 8 to 15 percent slopes, severely eroded. 'B' soil
 Ba - Baile Silt Loam, 'D' soil (Hydric Soil)

SCALE: 1" = 100'

A.L.S. INC.
 194 EAST MAIN STREET
 WESTMINSTER, MD. 21157
 (410) 857-0822



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT.

HOWARD COUNTY HEALTH OFFICER DATE

WALLER PROPERTY
 FORMERLY
PALMER PROPERTY
 PERCOLATION CERTIFICATION PLAN

TAX MAP NO. 8 PARCEL 284
 DEED REF 2959/66 TAX ACCT. #04-319958
 4TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
 SCALE: 1" = 100' DATE: 11/9/95

#150-95-22

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 DEPARTMENT
 95 NOV 13 PM 1:47