

11/22/08

PUB. SEWER STATUS VERIFIED BY _____

ISSUE DATE: 12/1/04

PERMIT

P 521577

APPROVAL DATE: 8/13/09

A REPAIR

ON-SITE SEWAGE DISPOSAL SYSTEM HOWARD COUNTY HEALTH DEPARTMENT BUREAU OF ENVIRONMENTAL HEALTH

South Carroll Backhoe, Inc. IS PERMITTED TO INSTALL ALTER

ADDRESS: 4410 Salem Bottom Rd., Westminster 21157 PHONE NUMBER: 410-875-4197

SUBDIVISION: Indian Hill Ext LOT NUMBER: 10

ADDRESS: 12505 Indian Hill Drive PROPERTY OWNER: Thomas Clements

SEPTIC TANK CAPACITY (GALLONS): 1500

PUMP CHAMBER CAPACITY (GALLONS): _____

NUMBER OF BEDROOMS: _____

SQUARE FEET PER BEDROOM: _____

LINEAR FEET OF TRENCH REQUIRED: _____

TRENCHES:	Trench to be _____ feet wide. Inlet _____ feet below original grade. Bottom maximum depth _____ feet below original grade. Effective area begins at _____ feet below original grade. _____ feet of stone below distribution pipe.
LOCATION:	Adding a 1500 gallon septic tank and trenches. System is failing but want to upgrade septic tank and add trenches if needed.
PURPOSE:	Existing septic system has failed. Call for inspection when ground is opened so sanitarian can recommend repair.

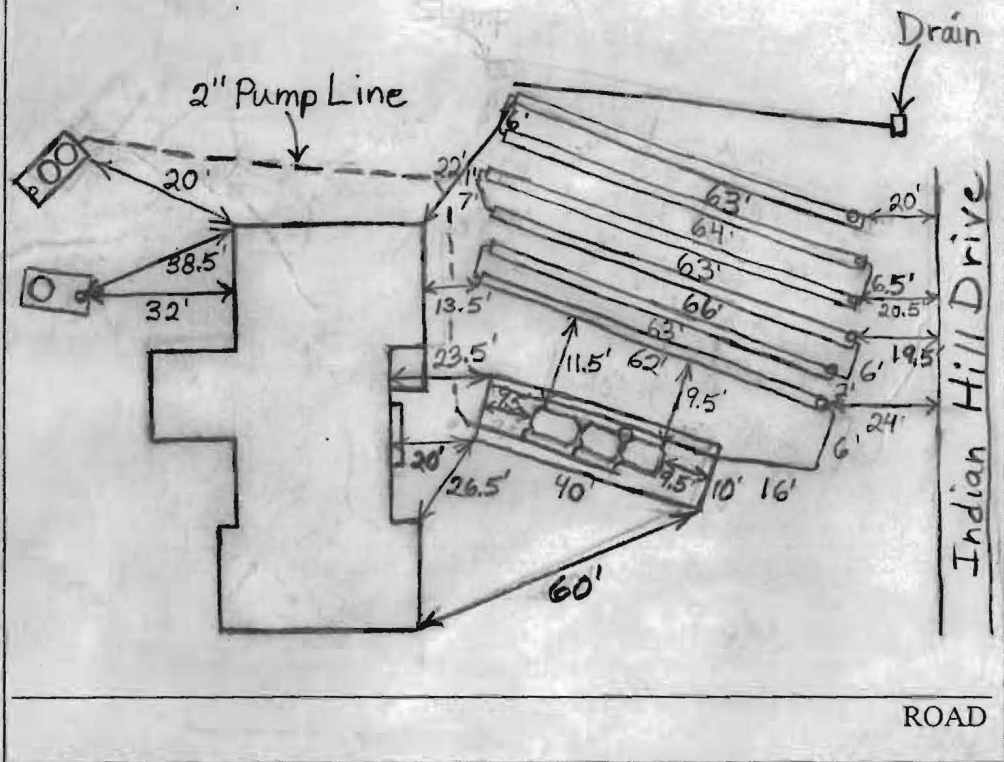
PLANS APPROVED: _____ DATE: _____

- NOTE: PERMIT VOID AFTER 2 YEARS
- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

NEITHER THE HOWARD COUNTY COUNCIL OR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT CALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM

NOT TO SCALE
 11/22/05 Met Jimmy Smith at site to set dose on control panel but electrician refused to work raining. Had wrong control panel anyway. (BB) 8/13/09 Finalled. Control panel was wired up and working in 2005 (BB)

TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	1.5'	2'
NUMBER OF TRENCHES		6'
TOTAL LENGTH		381'
ABSORPTION AREA		Bed + Trenches
DISTRIBUTION BOX LEVEL		N/A
DISTRIBUTION BOX BAFFLE		N/A
DISTRIBUTION BOX PORT		N/A



SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	
CAPACITY	_____ GAL
SEAM LOC	_____
TANK LID DEPTH	_____
BAFFLES	Existing
BAFFLE FILTER	_____
MANHOLE LOC	_____
6" PORT LOC	_____
WATERTIGHT TEST	_____
SEPTIC TANK 2 LEVEL Yes	
CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	0.5'-1'
BAFFLES	None
BAFFLE FILTER	Yes
MANHOLE LOC	Middle + Rear
6" PORT LOC	Front
WATERTIGHT TEST	Yes

PRE-CONSTRUCTION 10/31/05 Bed location established (BB) 11/1/05 Met

Jimmy Smith from Puraflo on site. He was there to make installation since the bed and filters were constructed and set up per Puraflo recommendations. The bed was dug, the trench collection pipe was placed in the gravel and the gravel was leveled for the filters. The filters and sampling chamber were set and the plumbing was connected to the filters. Gravel was mounded up around the filters and the bed was covered with fabric.

11/2/05 Grading done around filters (BB) 11/4/05 Trenches laid out. Not able to install as per plan. Can only fit 6 trenches in area. Trenches

FINAL INSPECTOR B Baber DATE OF APPROVAL 8/13/09

made 3' wide to increase absorption area (BB) 11/7/09 and 9 Trenches installed and pump tank set. Pump tank has wrong lid. Cannot get access to effluent filter. Pump chamber water tested - 0.7 (BB) continued ↑

PERMIT

P 516089-A

SEWAGE DISPOSAL SYSTEM

A _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
410-313-2640

ISSUE DATE _____

APPROVAL DATE _____

INDEXED

IS PERMITTED TO INSTALL _____ ALTER _____

ADDRESS _____ PHONE _____

SUBDIVISION Indian Hill LOT NUMBER 10 ADDRESS 12505 Indian Hill Drive

PROPERTY OWNER Benjamin & Emily Keyes PROPERTY OWNER'S ADDRESS Same

SEPTIC TANK CAPACITY _____ GALLONS

PUMP CHAMBER CAPACITY _____ GALLONS

NUMBER OF BEDROOMS _____

SQUARE FEET PER BEDROOM _____

LINEAR FEET OF TRENCH REQUIRED _____

TRENCHES: Trenches to be _____ feet wide. Inlet _____ feet below original grade. Bottom maximum depth _____ feet below original grade. _____ feet of stone below distribution box.

LOCATION: _____

B00132296
Deck & Sunroom

PLANS APPROVED _____ DATE _____

PERMIT VOID AFTER 2 YEARS

NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS

NOTE: TOP OF SEPTIC TANKS ARE TO BE NO DEEPER THAN 3.0 FEET BELOW FINISH GRADE

NOTE: WATERTIGHT SEPTIC TANKS REQUIRED

NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS, 90° ELBOWS ARE NOT ACCEPTABLE

NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E. TANK, DISTRIBUTION BOX, DRAINFIELDS) TO BE 100 FEET FROM ANY WATER WELL UNLESS OTHERWISE SPECIFICALLY AUTHORIZED

NOTE: NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH UNLESS SPECIFICALLY AUTHORIZED

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 35/40 PVC OR ABS

NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

NOTE: IF PUMPED SEPTIC SYSTEM REQUIRED, (1) SEPTIC PUMP DETAIL TO BE PROVIDED BY INSTALLER PRIOR TO ISSUANCE OF SEPTIC PERMIT (2) PUMP PERFORMANCE TEST IS NECESSARY PRIOR TO HEALTH DEPARTMENT APPROVAL OF SEPTIC PERMIT

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM
PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT
CALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM

516089-A

NOT TO SCALE

INDEXED

TRENCH DATA

TRENCH WIDTH _____

TRENCH INLET DEPTH _____

TRENCH BOTTOM DEPTH _____

DEPTH OF STONE _____

NUMBER OF TRENCHES _____

TOTAL TRENCH LENGTH _____

ABSORBENT AREA _____

DISTRIBUTION BOX LEVEL _____

BAFFLE IN DISTRIBUTION BOX _____

SEPTIC TANK DATA

SEPTIC TANK _____ GALLONS

MANHOLE RISER _____

6 INCH INSPECTION PORT _____

PUMP CHAMBER DATA

PUMP CHAMBER
GALLONS _____

MANHOLE RISER _____

ALARM _____

PUMP PERFORMANCE TEST _____

PRE-CONSTRUCTION INSPECTION: _____

INSPECTION COMMENTS: _____

INSPECTOR _____ DATE SYSTEM APPROVED _____

LOCATION DRAWING

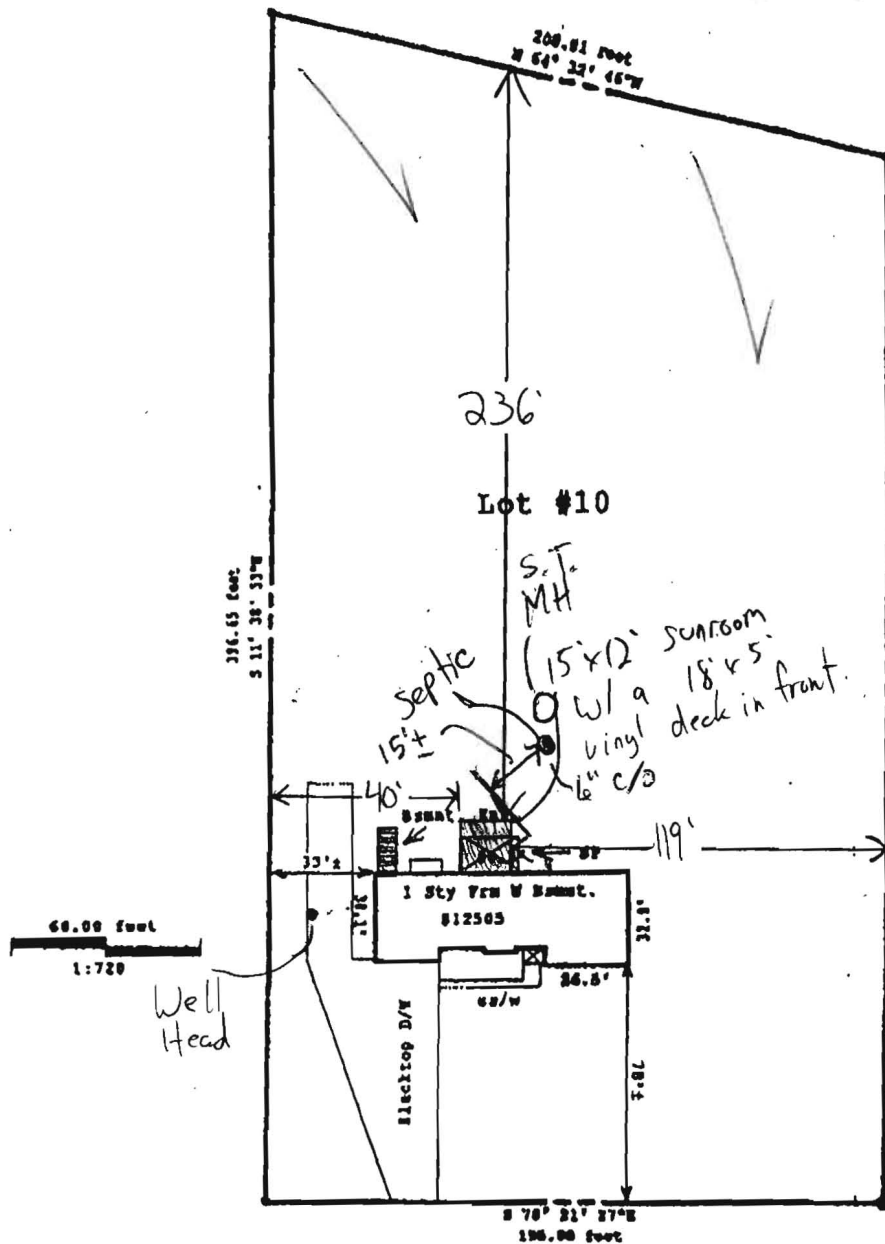
REVISED

Date: 9-19-01

12505 Indian Hill Dr

Comments: 300132296

Show well & septic



10/15/01
 SUNROOM OK
 AS SHOWN
 MR

INDIAN HILL DRIVE



Note: Location survey measurements are +/- 1'

SUBJECT PROPERTY NOT LOCATED IN A FLOOD PLAIN AREA UNLESS OTHERWISE NOTED.

This plat is of benefit to a consumer only insofar as it is required by a lender or a title insurance company or its agent in connection with contemplated transfer, financing or re-financing.

This plat is not to be relied upon for the establishment or location of fences, garages, buildings, or other existing or future improvements.

This plat does not provide for the accurate identification of property boundary lines, but such

identification may not be required for the transfer of title or securing financing or refinancing.

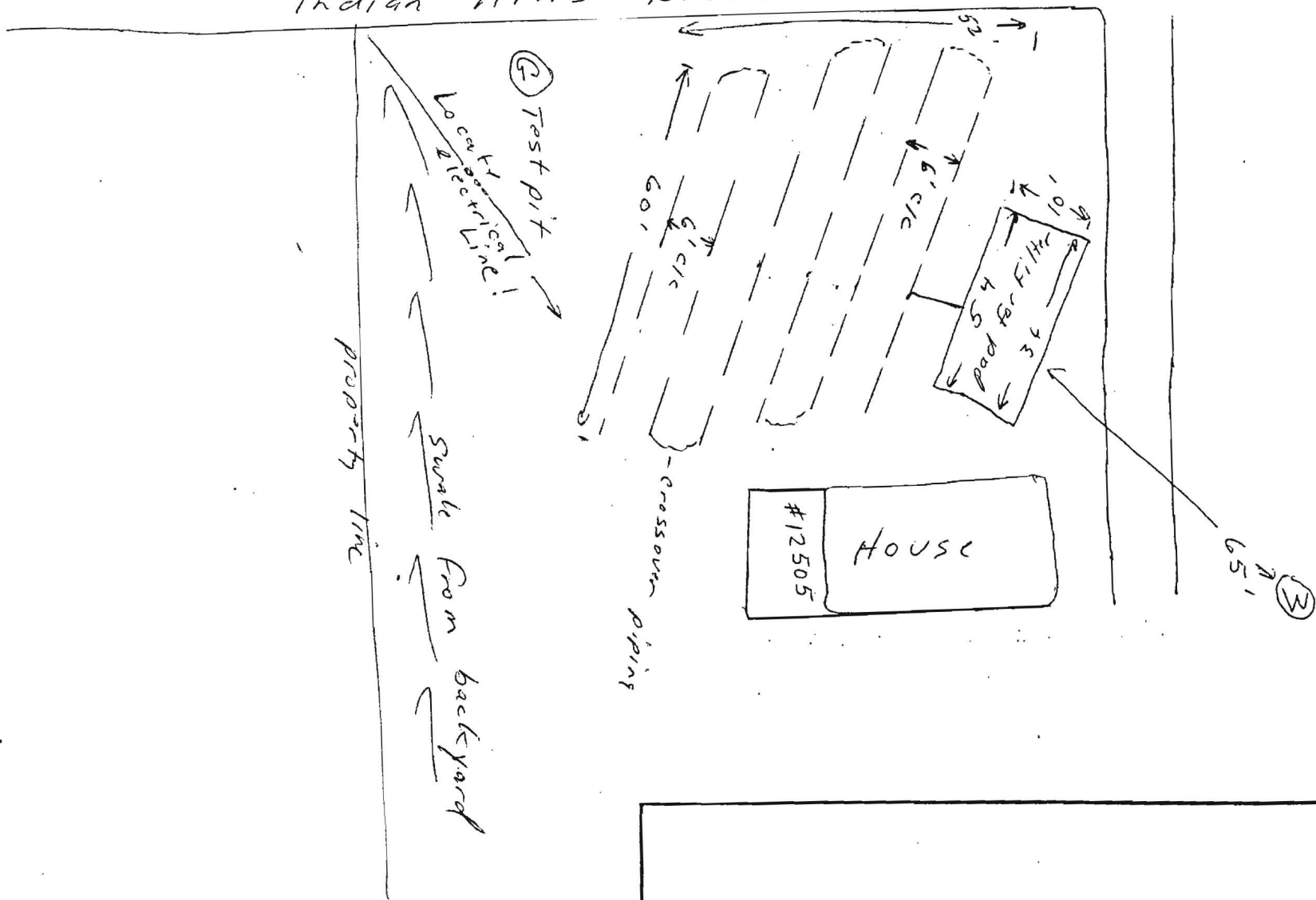
THIS IS TO CERTIFY THAT WE HAVE CONDUCTED A LOCATION SURVEY OF THE IMPROVEMENTS AND THAT THEY ARE LOCATED AS SHOWN HEREON.

Signature: *Thomas G. Cathel*

Reg. No. 671

CLS And Associates P.O. Box 190 Labon, MD 21705 Phone: (410) 442-5117 Fax: (410) 442-5175	Date: 11/13/05	Project: 12505 INDIAN HILL DRIVE
	Scale: 1"=60ft	Sykesville, Maryland 21764 Howard County
	File: LT 98-7308	Title Deed Liber: 633, Folio: 156 Plat Ref: Lot No. 10, Block "A", Plat No. 13, Folio 90 Ext. Indian Hill

Indian Hills Drive



SCALE *No Scale*
 DATE

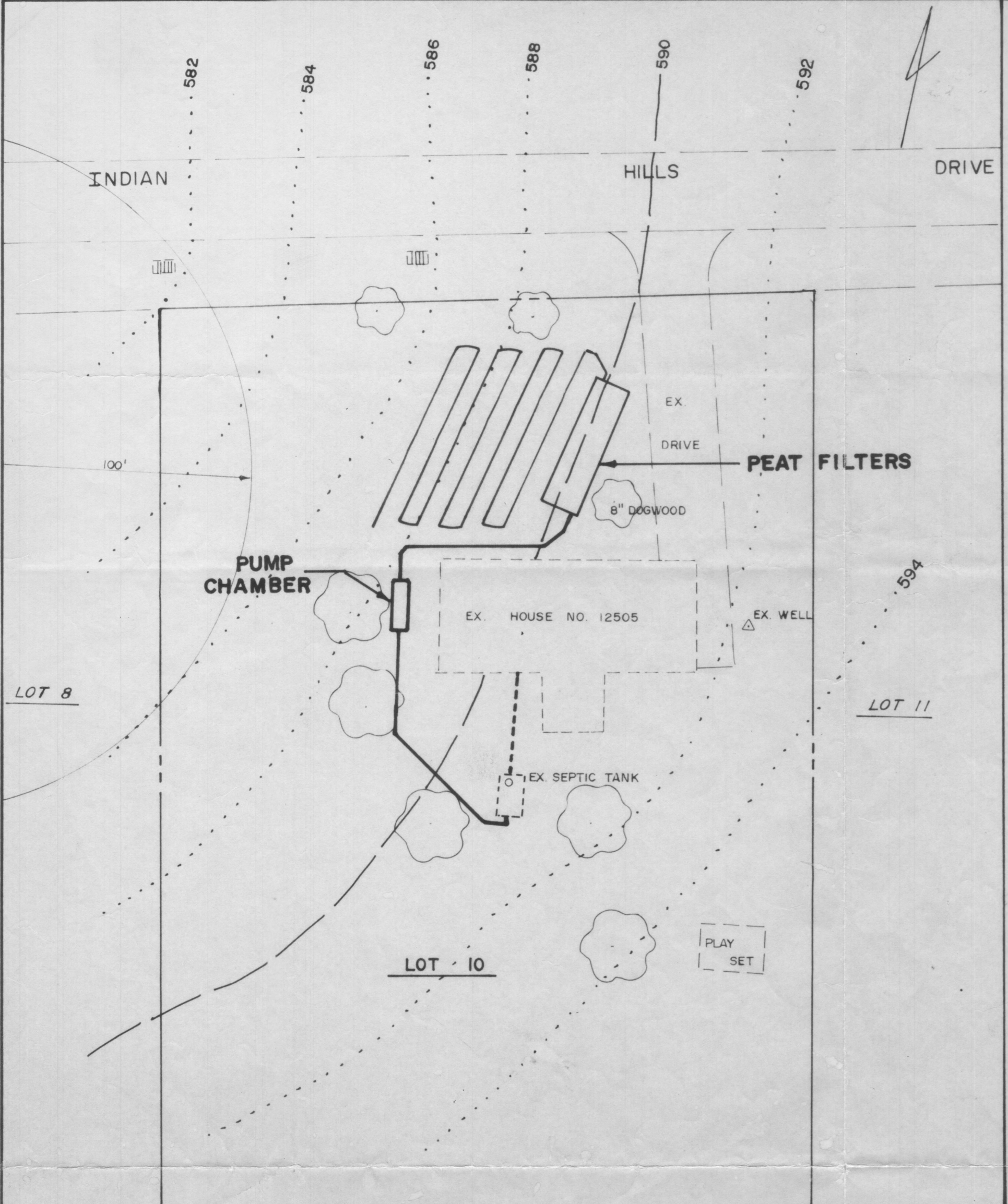
APPROVED BY:

DRAWN BY

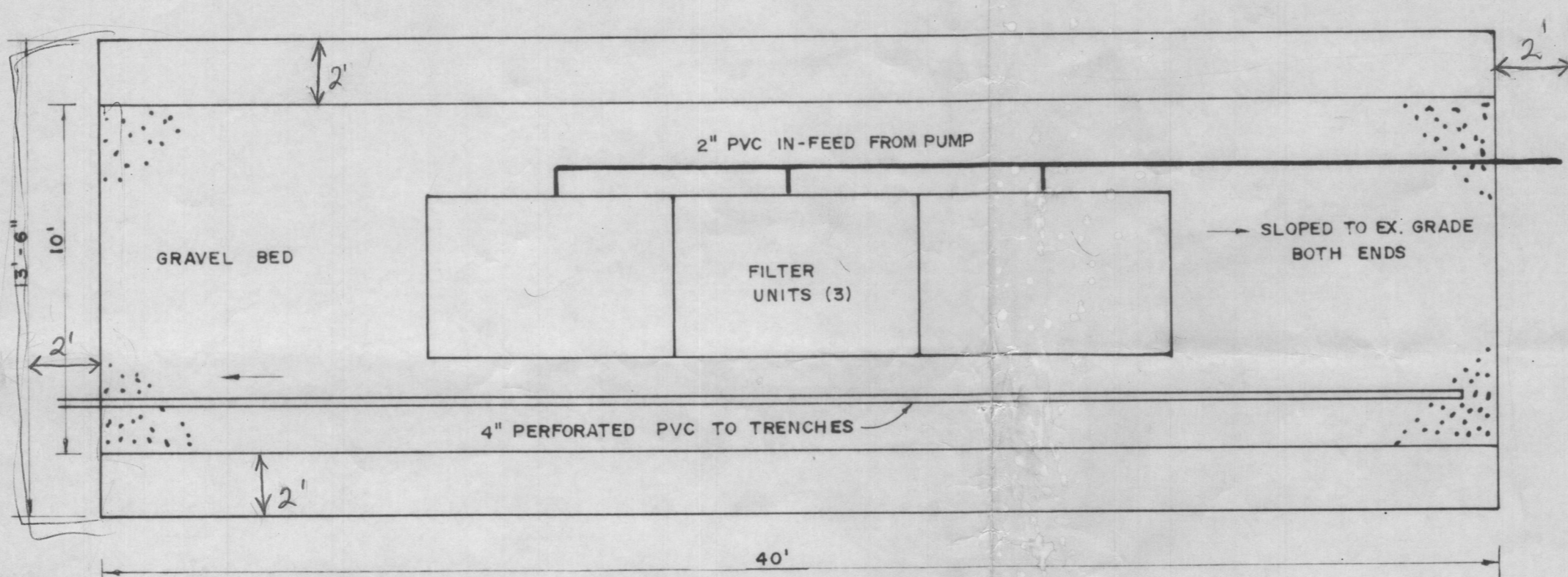
 REVISED

DEPARTMENT OF THE ENVIRONMENT
 201 WEST PRESTON STREET • BALTIMORE, MARYLAND 21201

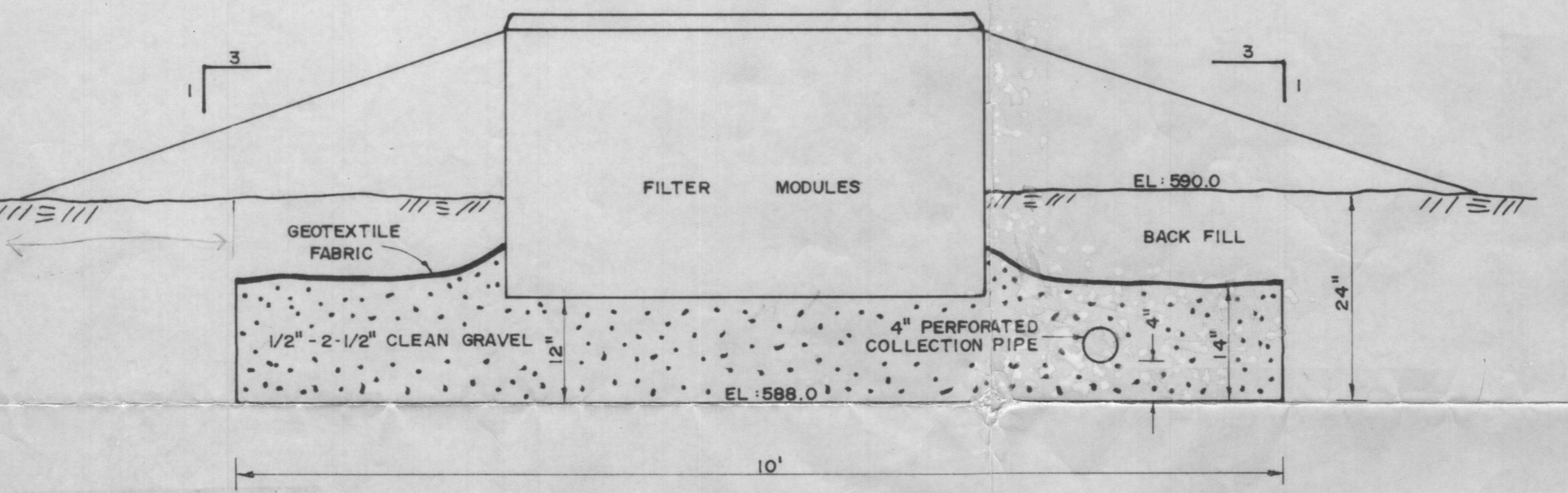
DRAWING NUMBER



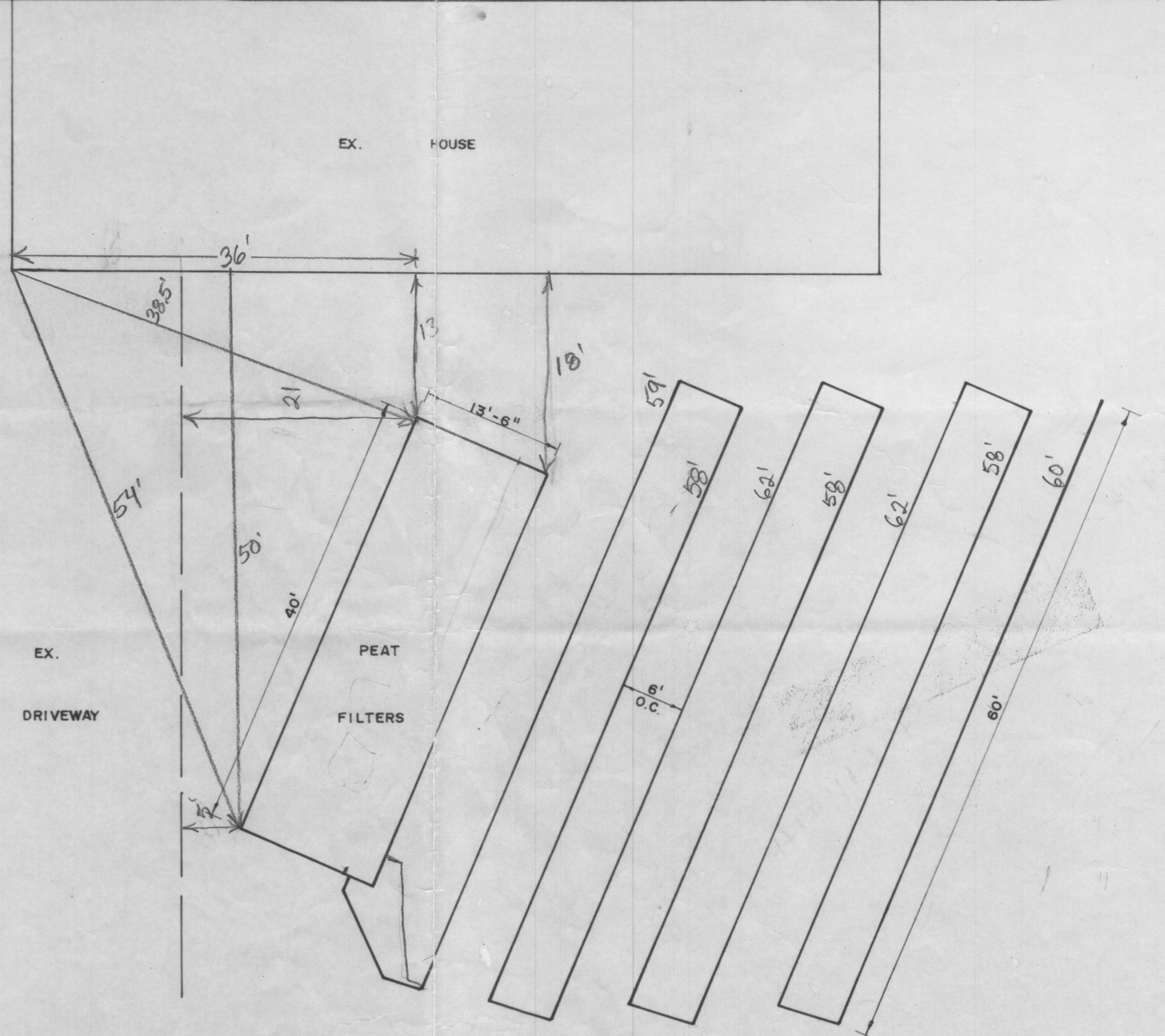
SITE PLAN
SCALE: 1"=30'



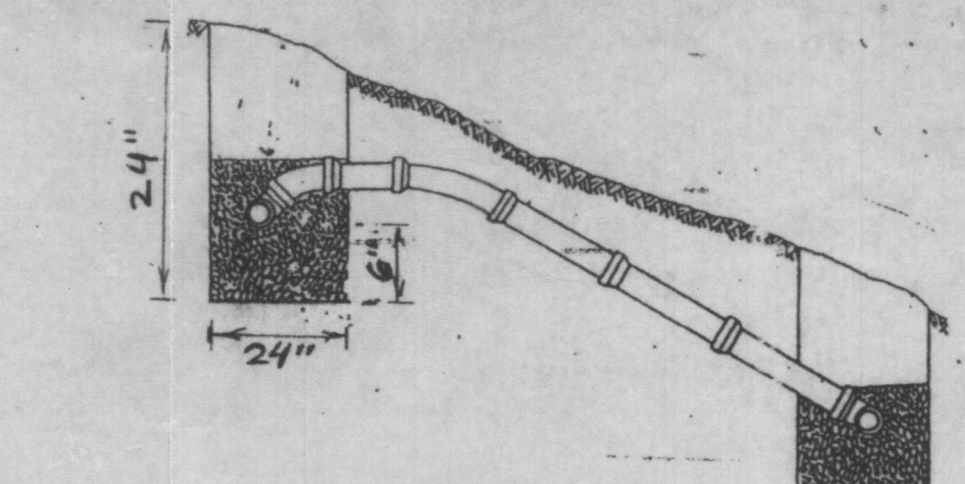
PEAT FILTER PLAN VIEW
SCALE: 1/4"=1'



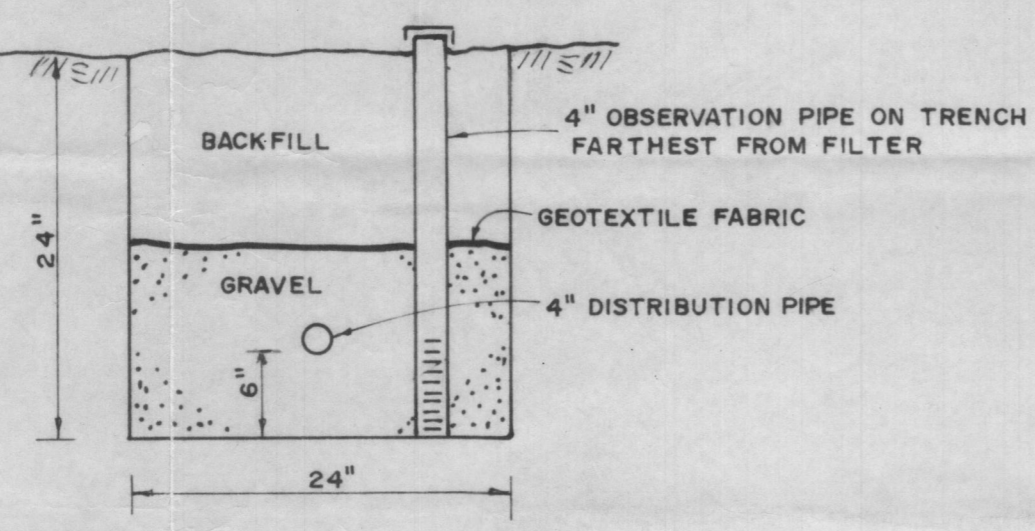
PEAT FILTER CROSS SECTION
SCALE: 3/4"=1'



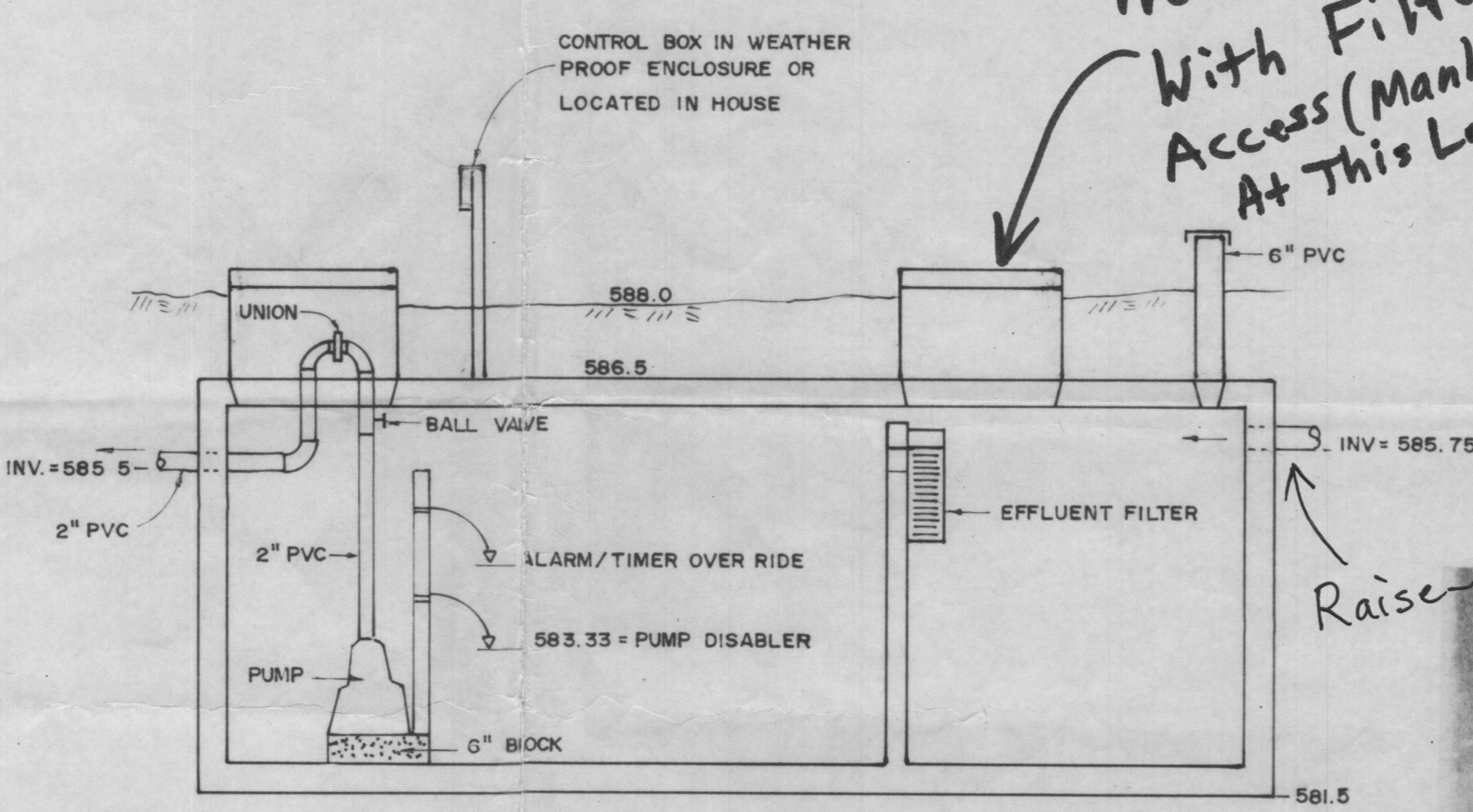
FILTER/TRENCH LAYOUT
SCALE: 1"=10'



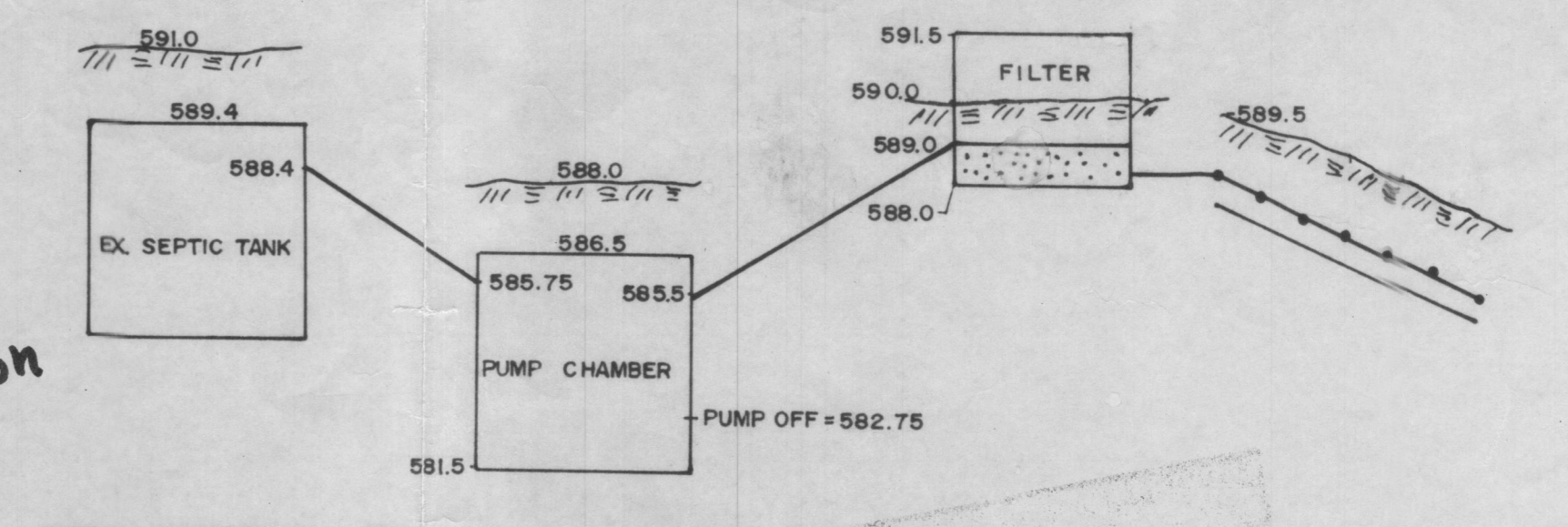
ABSORPTION TRENCH RELIEF LINE CROSS SECTION
N.T.S.



TRENCH CROSS SECTION
SCALE: 1"=1'



TOP SEAM 1500 GAL. SEPTIC TANK
WITH INVERT ELEVATIONS REVERSED
500 GAL. ADDITIONAL SETTLING
1000 GAL. PUMP CHAMBER
N.T.S.



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

DESIGN CRITERIA

Design Flow - 3 Bed Rooms x 150 = 450 GPD
Design Loading Rate - 0.38 GPD/Sq Ft
1 - 1,500 GAL. Compartmented Top Seam Pump Chamber
3 - Peat Biofilter Modules
7 - 2' x 60' Shallow Trenches

Halcyon (800)895-0856

SPECIFICATIONS

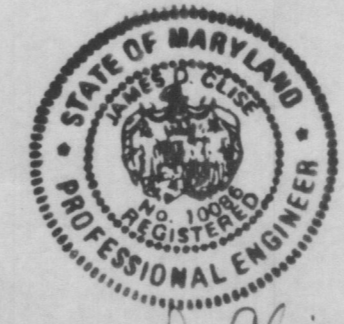
- Tank measurements and elevations are based on the 1500 Gal. Tank manufactured by Mayer Bros., Elkridge, Md (410) 796-1434. (Design altered as shown on drawing)
- Peat Biofilters to be a 3 unit Parafof System as manufactured by Bord Na Mona Environmental Products, Inc. Sales Line 1-800-787-2356
- The Peat Biofilter System to consist of the following:
 - 3 Filter Modules
 - Manifold and Piping
 - 1 Effluent Pump
 - Control Panel with Timer, Event Counter & Alarm
 - 1 Zabel Effluent Filter, Model A-300, to be installed as shown in the Pump Chamber
 - Sample Chamber
- The Alarm is to be installed on a separate electric circuit.
- Alarm to be located in the house

Need Tank With Filter Access (Manhole) At This Location

Raise Inlet

MARYLAND DEPARTMENT OF THE ENVIRONMENT
ON-SITE SYSTEMS DIVISION
Reviewed by: *[Signature]* Date: 4-1-05
Approved by: *[Signature]* Date: *[Blank]*

NOTE
Approval of final field layout is required by the On-Site Systems Division at least 48 hours prior to system installation
Approved By: _____
Date: _____



James W. Oliva

S/E ENGINEERING, INC.

WESTMINSTER, MARYLAND
SCALE: AS SHOWN APPROVED: _____ DRAWN BY: RSK
DATE: MAY, 2005 JDC DESIGN BY: JDC

THOMAS CLEMENTS
12505 INDIAN HILLS DRIVE - HOWARD CO.

INNOVATIVE WASTEWATER SYSTEM DRAWING NO. _____
1 OF 1