

LAYOUT 7/15/09 INSP 4 _____
INSP 2 7/20/09 INSP 5 _____
INSP 3 7/22/09 INSP 6 _____

ISSUE DATE: 06/09/2009

P 531033

APPROVAL DATE: 4/16/10

A 33640

PERMIT

Tax ID # 04-344995

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

Jon J. Shaw IS PERMITTED TO INSTALL ALTER

ADDRESS: 8762 Stonehouse Dr, EC 21043 PHONE NUMBER: 410-598-0982

SUBDIVISION: New Horizon Farm LOT NUMBER: 1

ADDRESS: 3015 Woodbine Road PROPERTY OWNER: Cooke Forsythe LLC
correct reb 4/23/2010

SEPTIC TANK CAPACITY (GALLONS): 2000 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): 1500 COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 3

APPLICATION RATE: 1.2

LINEAR FEET OF TRENCH REQUIRED: 78

TRENCHES:	Trenches to be 3.0 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 5.0 feet below grade. Effective area begins at 3.5 feet below original grade. 2.0 feet of stone below distribution pipe.
LOCATION: <i>on low side 50, 60, 70</i>	Place the distribution box as shown on the approved site plan. Run trenches on contour (40, 65, 80, 80 trenches). Set one-compartment pump tank at initial installation. Trenches to be by gravity for first system. <i>& poss. by 2nd</i>
NOTES: <i>use speed levelers</i>	Basement service by gravity is not proposed. Health Department recommends a minimum of 160' of trench based on house square footage.

PLANS APPROVED: _____ DATE: 06/09/2009

- 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 410-313-1771 FOR INSPECTION OF SEPTIC SYSTEM

NOT TO SCALE

TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
<u>3</u>	<u>3</u>	<u>5'</u>
NUMBER OF TRENCHES		<u>3</u>
TOTAL LENGTH		<u>177'</u>
ABSORPTION AREA		<u>531 + Sidewall</u>
DISTRIBUTION BOX LEVEL		<u>Yes</u>
DISTRIBUTION BOX BAFFLE		<u>Elbow</u>
DISTRIBUTION BOX PORT		<u>Yes</u>

See Seperate Sheet for As-Built

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	<u>Yes</u>
MANUFACTURER	<u>Babylon</u>
CAPACITY	<u>2000</u> GAL
SEAM LOC	<u>Top</u>
TANK LID DEPTH	<u>1-1.5'</u>
BAFFLES	<u>Yes</u>
BAFFLE FILTER	<u>No</u>
MANHOLE LOC	<u>Front + Rear</u>
6" PORT LOC	<u>None</u>
WATERTIGHT TEST	<u>No</u>
SLOTTED	<u>Yes</u>
PUMP/SEPTIC TANK LEVEL	<u>Yes</u>
MANUFACTURER	<u>Babylon</u>
CAPACITY	<u>1500</u> GAL
SEAM LOC	<u>Top</u>
TANK LID DEPTH	<u>1'</u>
BAFFLES	<u>Front</u>
BAFFLE FILTER	<u>No</u>
MANHOLE LOC	<u>Rear</u>
6" PORT LOC	<u>None</u>
WATERTIGHT TEST	<u>No</u>
SLOTTED	<u>No</u>

PRE-CONSTRUCTION
7/15/09 Large tree in SRA. Layed out possible trenches (50', 60', 70' on lowest part)

Need to cut down additional high grass to check top. Also need to dig a hole to verify soils on low side. (50) 7/20/09 Homeowner decided to go w/ pump in pump tank. Shot contour @ highest part of septic area. Install a 50', 60', 70' trenches on contour as marked out in field. Call for inspection (50) 7/22/09 Top trench complete. Looks good. Minor adjustments made to middle trench. A 1/3 horsepower pump to be used. OK to continue (50) 7/27/09 System finished except for pump and alarm test. (50) 4/16/10 P/A test OK.

FINAL INSPECTOR R. Wolf DATE OF APPROVAL 4/16/10

Woodbine Rd.
3015 4/26 reB

FILE INQUIRY NOTES

Robert Bricker

DATE	RESULTS OF REVIEW FOR FILE
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7/13/09 Landon Smith, installer, calls to inquire about Health Dept requirement to install pump tank and a gravity flow drainfield system.

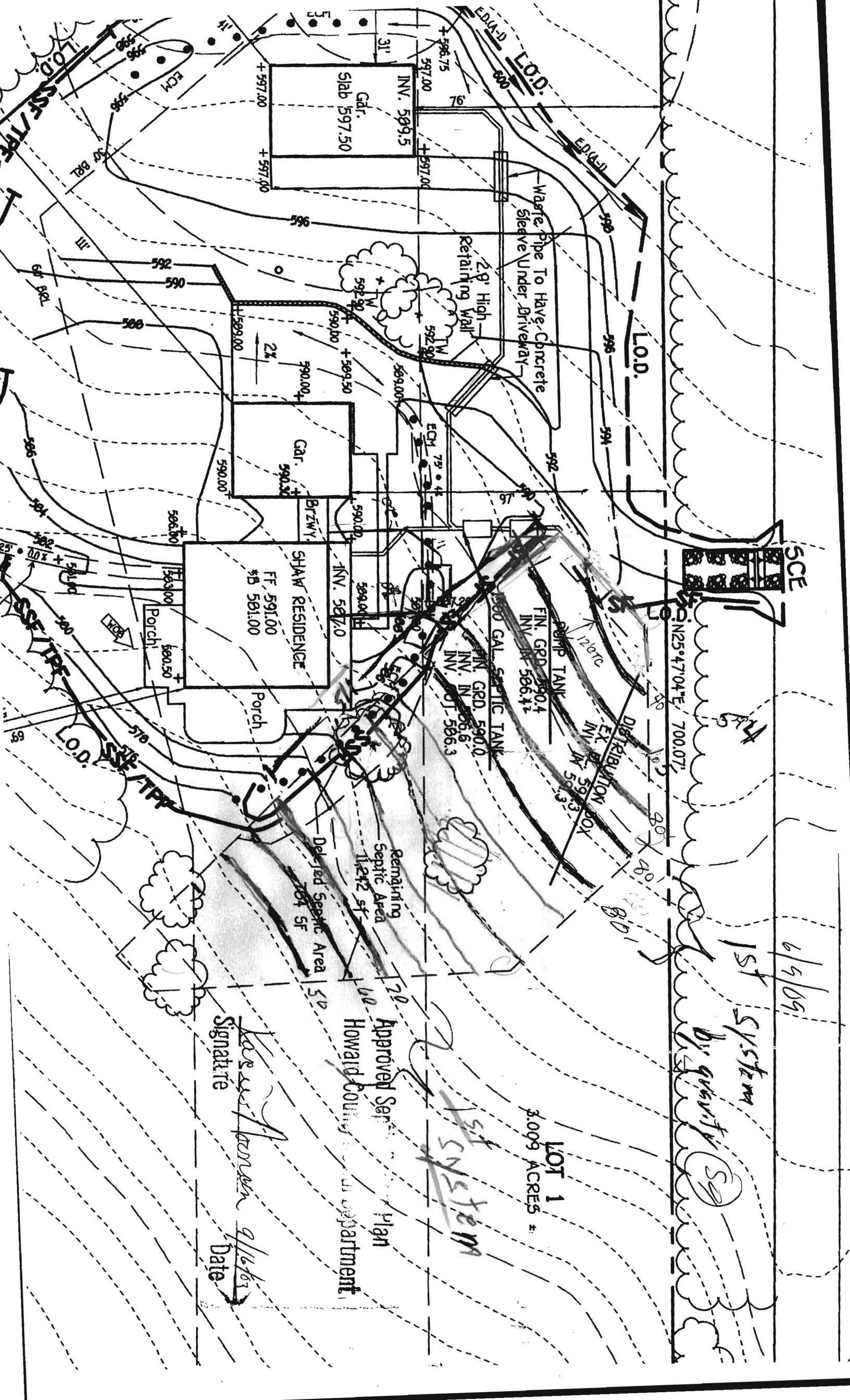
PB I explained that it is Health Dept policy to install trenches in highest portion of septic easement for the initial system. If a pump tank is required, then it will be installed and utilized. Also expressed that I do not know the reason that the issued permit has specifications that vary from policy.

7/14/09 Property owner Jon Shaw, at Bureau desk, appeals that requirement to pump to upper portion of drainfield is counter to his philosophy to personally minimize energy usage.

PB, I explained to owner that these concerns would be reconciled at layout Inspection. The installation inspector will take into account the specifications on the issued permit, especially in regard to elevations and soil characteristics. It is the inspectors prerogative to require testing so a system can be properly design.

Among issues identified during conversation were:

- Wrong Application Rate
- Trench bottom incorrect for lower portion of easement
- Effective Sidewall generally unknown, very sketchy profile descriptions



6/9/09

1st system

by gravity

LOT 1
3.009 ACRES ±

1st system

Approved Ser...
Howard County Health Department

Signature: *Karen Brown*
Date: *9/16/03*

SCE

Point 25°47'04"E 700.07'

PUMP TANK

FIN. GRD. 590.4
INV. IN. 586.41

1500 GAL. SEPTIC TANK

FIN. GRD. 590.0
INV. IN. 586.6
IN. OF 586.3

DISTRIBUTION BOX

EX. B. IN. 593.3
IN. IN. 591.3

SHAW RESIDENCE

FF 591.00
#B 581.00

Gar. 590.30

Brzwy. 590.00

Porch 580.50

2.8' High Retaining Wall
Waste Pipe To Have Concrete Sleeve Under Driveway

INV. 589.5

Slab Gar. 597.50

Gar. 597.00

2%

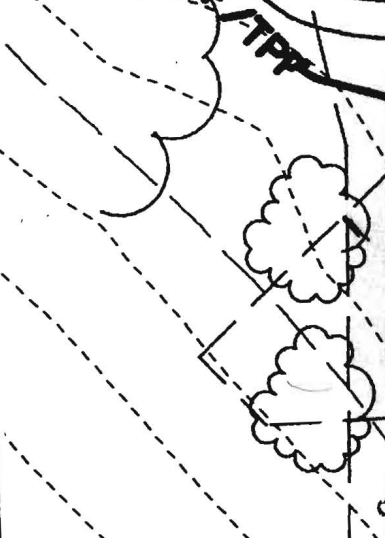
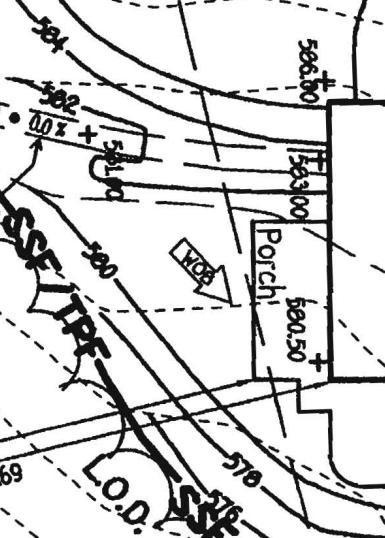
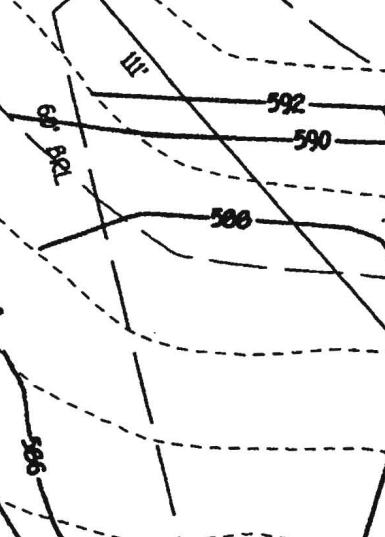
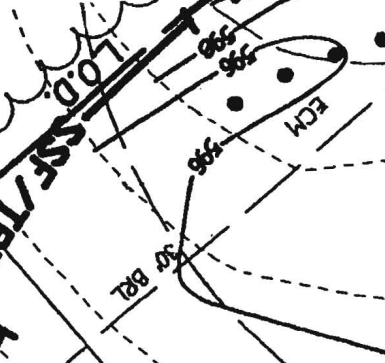
590.00

590.00

590.00

590.00

590.00



LAYOUT _____ INSP 4 _____

INSP 2 _____ INSP 5 _____

INSP 3 _____ INSP 6 _____

ISSUE DATE: _____

PERMIT

P 531035

APPROVAL DATE: _____

A 33640

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

IS PERMITTED TO INSTALL ALTER

ADDRESS: _____ PHONE NUMBER: _____

SUBDIVISION: New Horizon Farm LOT NUMBER: 1

ADDRESS: 2991 Woodbine Road PROPERTY OWNER: Jon Shaw

SEPTIC TANK CAPACITY (GALLONS): 2000 2 Comp 1250 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): 1500 N/A COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4 3

SQUARE FEET PER BEDROOM: 180

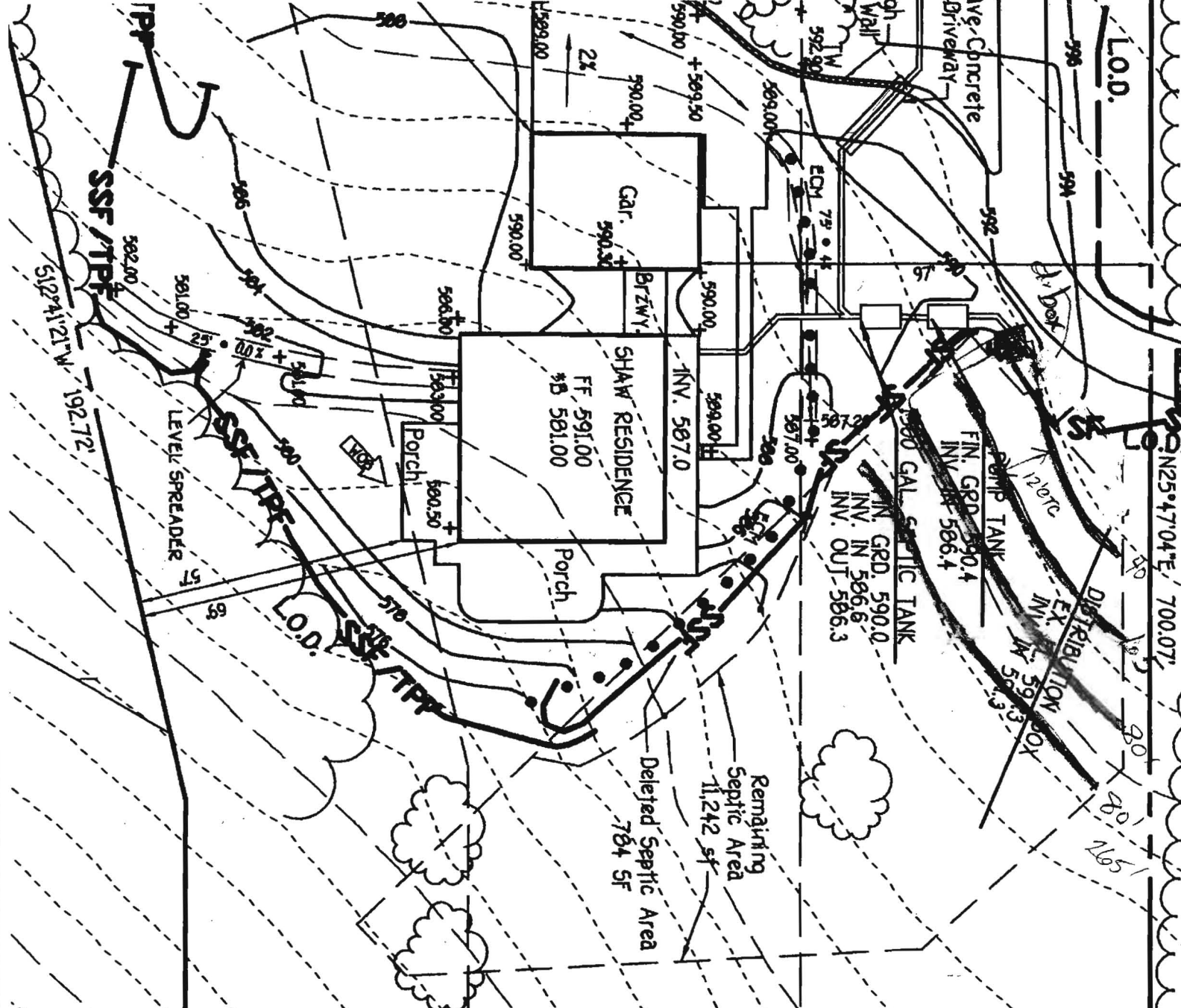
LINEAR FEET OF TRENCH REQUIRED: 265 78 HOUSE SERVED BY PUBLIC WATER

TRENCHES:	Trench to be 3.0 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 5.0 feet below original grade. Effective area begins at 3.5 feet below original grade. 2.0 feet of stone below distribution pipe.
LOCATION:	Place the distribution box as shown on the approved site plan. Run Trenches on contour (40', 65', 80', 80' trenches) <i>Set pump tank at initial install. Trenches to be by gravity for first system</i>
NOTES:	Basement service by gravity is not proposed. <i>Health Dept recommends a min. of 160' of trench based on house sq. footage</i>

PLANS APPROVED: Kacie Noonan DATE: 9/16/03

NOTES: PERMIT VOID AFTER 2 YEARS
CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
WATERTIGHT SEPTIC TANKS REQUIRED
ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED
MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED
CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE REGULATIONS, GUIDELINES AND THE TERMS OF THIS 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 ALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM



Approved Septic System Plan
 Howard County Health Department

Signature *Kevin Brown*
 Date *9/16/03*

LOT 1
 3.009 ACRES ±

525°48'35"

SEPTIC SPECIFICATIONS WORKSHEET

SUBDIVISION: New Horizon Farm
STREET NAME: 2991 Woodbine Rd.

LOT NUMBER: A 33640
Parcel 14, Lot 1

AVERAGE PERCOLATION RATE: 1x zone ≈ 5min

SQUARE FEET PER BEDROOM: 180

NUMBER OF BEDROOMS: 3, size for 4 4

LINEAR FEET OF TRENCH PER BEDROOM: _____

TOTAL LINEAR FEET OF TRENCH: 265'

SEPTIC TANK CAPACITY: 1250 ~~1000~~

TOP SEAMED TANK REQUIRED? YES OR NO

COMPARTMENTED TANK REQUIRED? YES OR NO

TRENCH DIMENSIONS: Trench to be 3 feet wide. Inlet 3 feet below original grade.
Bottom maximum depth 5 feet below original grade. Effective area begins at 3.5 feet below original grade. 2 feet of stone below distribution pipe.

PUMPED SYSTEM PROPOSED: YES OR NO

Pumped Septic System Detail: 1250 gallon(s) pump chamber.

Top Seamed Pump Chamber Required? YES OR NO

Note 1: Septic pump detail to be provided by installer prior to issuance of septic permit.

Note 2: Pump performance test is necessary prior to Health Department approval of pump septic system.

LOCATION: Place the distribution box as shown on the approved site plan. Run trenches on contour. (40', 65', 80', 80' trenches)

ADDITIONAL NOTES: Basement service by gravity is not proposed

Reviewer: KACIENOWAN

Date: 9/16/03

EARL
THIS IS FROM
HEALTH DEPT.

MARYLAND

Land dedicated to public use for
the purpose of a public road
Area 29,304 ± or 0.673 Acres ±

1" = 50'

ROUTE

~ 8900 #

N 25°-31'-21" E

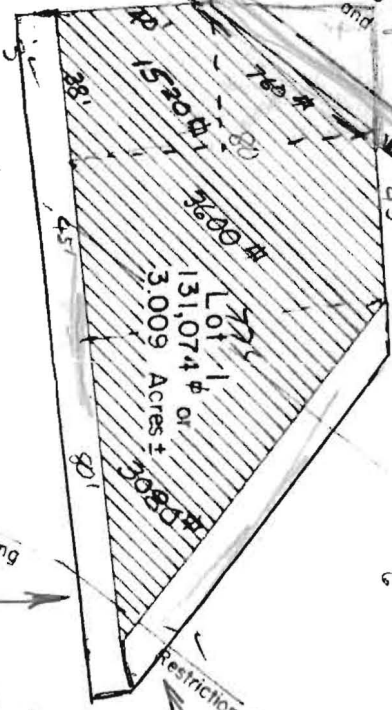
Vehicular
Ingress

S 25°-48'-33" W

Building Restriction Line

Slope

Failed 31' OK 7 1/2
4 1/2
5 1/2
VILLI LOOKS OK



733.67'

638.96'

restricted

Existing Paving

A-33640

(ASARU AUTHORITY)
New HORIZON FORM
AT

S 12°-41'-21" W

192.72'

ADD 10' TO EACH SIDE
TO HAVE MIN 10,000 #

8-1-86 H.A.

4

S 25°

1' : 50'

~ 8900 #

will lose an additional 4' 3" along R/W

ROUTE 1

MARYLAND

(ARAVU AUTHORITY)
RT 94
New Highway from
IT

A-33640

slate



add 10'
To see scale to existing to see the

X
V

5120' - 41' - 21" W
21' 00"

used as the...

20'

