



Howard County
Health Department

Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 9-25-17 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 501534-A

APPROVAL DATE: 4/17/18 SEC **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 2039 Terrapin Creek Road

SUBDIVISION: Terrapin Creek

LOT: 15

TAX ID: _____

CONTRACTOR: WTC Contractors

EMAIL: _____

CONTRACTOR ADDRESS: 3033 Salem Bottom Road, Westminster, MD 21157

PHONE: 410-458-7024

PROPERTY OWNER: LDG Inc.

EMAIL: _____

OWNER ADDRESS: 8601 Georgia Avenue, Silver Spring, MD 20110

PHONE: 301-585-7000

SEPTIC TANK SIZE (GALLONS): 1500

TANK MANUFACTURER: _____

PUMP MODEL: WE-03

PUMP SIZE

1/3 UP

PUMP TANK CAPACITY: 1250

DISTRIBUTION SYSTEM:



GRAVITY



PRESSURE DOSED

BEDROOMS: 4

APPLICATION RATE: _____

TRENCHES:	LINEAR FEET REQUIRED: <u>140</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4.5</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:		

ISSUED BY: _____ ISSUE DATE: 9-25-17 EXPIRATION DATE: 9-28-18

NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION

NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING

NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.

NOTE: WATERTIGHT TANKS REQUIRED

NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL

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

NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM



ELECTRICAL PERMIT ISSUED

E

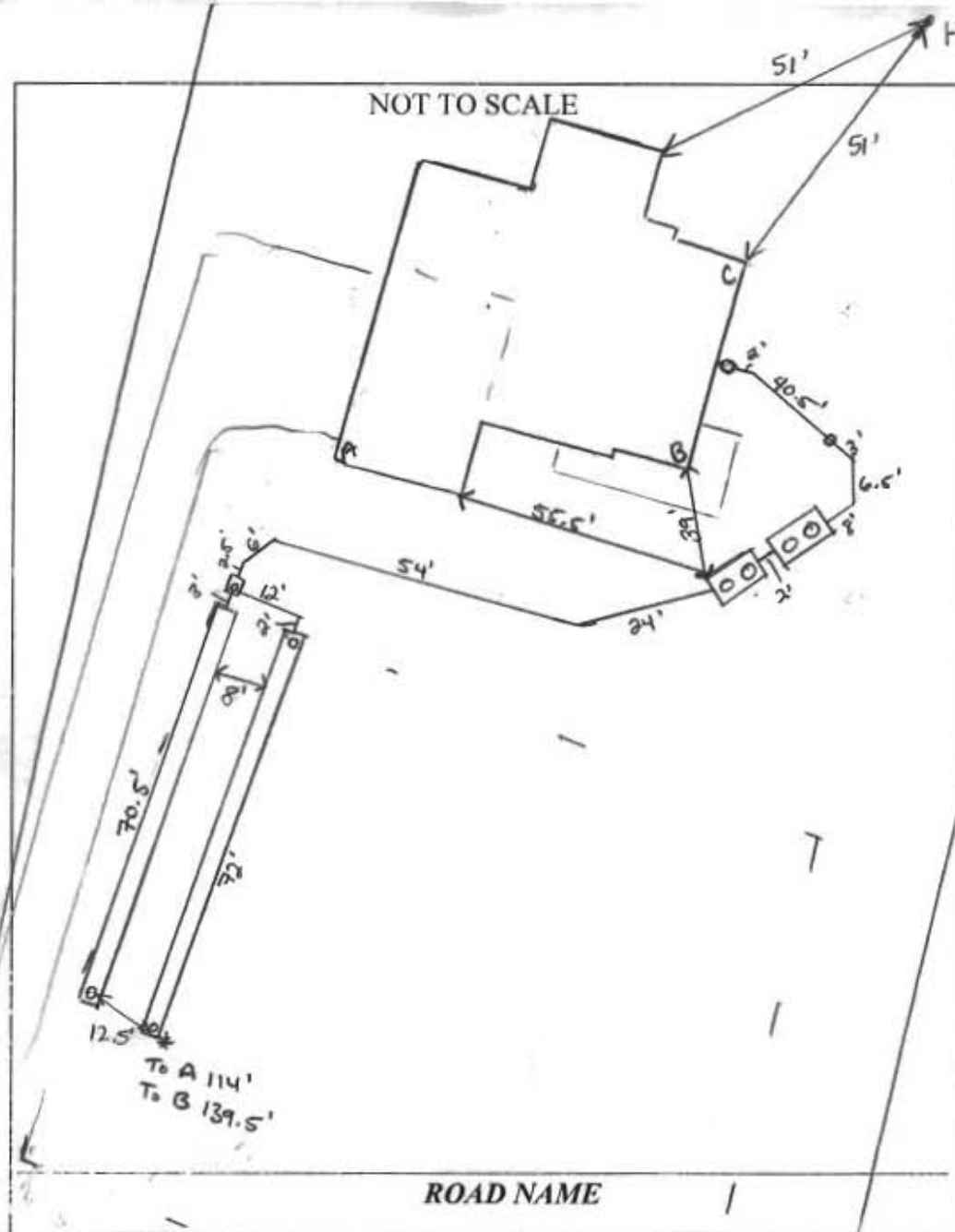
N/A

NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

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 410-313-1771 TO SCHEDULE INSPECTIONS.



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	7'
NUMBER OF TRENCHES		2
TOTAL LENGTH		142.5'
ABSORPTION AREA		427.5 sq ft
DISTRIBUTION BOX LEVEL		DNI
DISTRIBUTION BOX BAFFLE		N/A
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA		
SEPTIC TANK 1 LEVEL		DNI
MANUFACTURER		Babylon
CAPACITY		1500 GAL
SEAM LOC		TOP
TANK LID DEPTH		~3'
BAFFLES		YES
BAFFLE FILTER		NO
MANHOLE LOC		Front/Back
6" PORT LOC		Inlet
WATERTIGHT TEST		—
SLOTTED		YES
DATE ON LID		08/27/17
PUMP/SEPTIC TANK LEVEL		DNI
MANUFACTURER		Babylon
CAPACITY		1250 GAL
SEAM LOC		TOP
TANK LID DEPTH		~3'
BAFFLES		Inlet
BAFFLE FILTER		NO
MANHOLE LOC		Front/Back
6" PORT LOC		N/A
WATERTIGHT TEST		—
SLOTTED		NO
DATE ON LID		—

PRE-CONSTRUCTION:

9/27/17 Met WTC on site for layout. SDA corners staked. Shot contour + laid out 2x70' trenches. Pulled 100' off well and 20' off house corner to get tank locations. Set tanks parallel to contour if builder always change in direction. (SC)

10/02/17 Sewer Line Spec:

PVC Solvent Welded 4" Cresline SCH 40

INSTALLATION: 10/02/17 On site after construction of the system. Approved for backfill. Reinspect for pump and Alarm. @ 10/03/17 placed in PatTrac as reinspection on 10/3/17. Reinspection occurred on 10/02/17. @ 4/17/18 Met WTC on site for pump + alarm test. Alarm sounds, pump pumps effluent to D-box. T2 obs pipe is slightly below grade - WTC to raise. [corrective action] (SC)
4/17/18 T2 obs. pipe raised. [corrective action completed] (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 4/17/18

- NOTES:
- 1) FOUNDATION AND FOOTINGS ARE IN PLACE AS SHOWN HEREON.
 - 2) BUILDING TIES ARE $\pm 0.5'$ UNLESS OTHERWISE NOTED.
 - 3) TOP OF WALL = 600.80

NON-BUILDABLE PRESERVATION
PARCEL 'B-1'
TERRAPIN CREEK
PLAT No. 23780

589°24'43"E 154.73'

• EX. WELL
HO95-1115

30' B.R.L.

LOT 16
TERRAPIN CREEK
PLAT No. 22662

POURED CONC.
WALLS
TOP OF WALL
= 600.80
(SEE DETAIL)

LOT 15
44,481 s.f.
1.0211 Ac. \pm

N 01°57'25" W 283.06'

NON-BUILDABLE PRESERVATION
PARCEL 'B'
TERRAPIN CREEK
PLAT No. 22662

NON-BUILDABLE PRESERVATION
PARCEL 'B-1'
TERRAPIN CREEK
PLAT No. 23781

N 01°41'20" W 257.23'

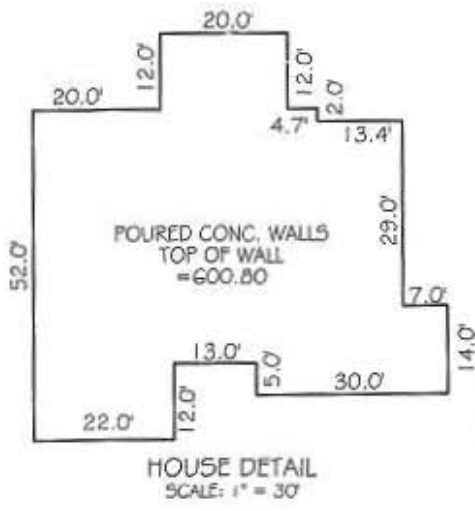
10' TREE MAINTENANCE,
DRAINAGE & UTILITY
EASEMENT

N 64°18'01" W 128.09'

R=50.00
A=52.45'

TERRAPIN
CREEK ROAD
50' R/W

Wall
Check
OK
RAE 9/25/17



PROFESSIONAL CERTIFICATION:

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21237, EXPIRATION DATE JANUARY 18, 2019, IN ACCORDANCE WITH COMAR 09.13.06.12.

James A. Fleming
For VanMar Associates, Inc.
James Alden Fleming, Prof. Land Surveyor
Date: 8-23-2017

WALL CHECK DRAWING
LOT 15
TERRAPIN CREEK

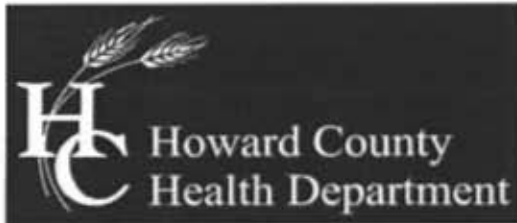
PLAT No. 22662
2039 TERRAPIN CREEK ROAD
THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: 1" = 50' AUGUST, 2017

I CERTIFY THIS PLAT TO BE CORRECT; IT IS THE RESULT OF AN ACTUAL FIELD SURVEY, BASED ON DATA FOUND AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND, AS REFERENCED HEREON.



VANMAR
ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street Mount Airy, Maryland 21771
(301) 829-2890 (301) 831-5015 (410) 549-2751
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REFERENCE	JOB NO.
PLAT NO. 22662	B4-5428



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Twitter: [HowardCoHealthDep](https://twitter.com/HowardCoHealthDep)

Maura J. Rossman, M.D., Health Officer

June 30, 2017

Vanmar Associates, INC.
310 South Main Street
Mount Airy, MD 21771
Attn: Ron Thompson

Sent via email to: ron@vanmar.com

RE:

OSDS Plan
2039 Terrapin Creek Road
Terrapin Creek, Lot 15
Woodstock, MD 21163

Hi Ron:

The OSDS Plan for Terrapin Creek, Lot 15 has been reviewed with the following comments:

- 1.) The friction loss should be more like 2.05 (per sand mound chart)
- 2.) The TDH would be more like 19.69 (use 20)
- 3.) TDH of 20 intersects the pump curve at 35 GPM
- 4.) Pump should be a 1/3 HP, WE03.
- 5.) Pump runtime = 3 minutes.
- 6.) Change wording in calculation to 2nd replacement
- 7.) House detail elevations do not match Layout elevations on plan
- 8.) Move d-box inside SDA

Should you have any questions, please don't hesitate to ask.

Respectfully,

Hank Oswald

Hank Oswald, L.E.H.S.
Bureau of Environmental Health
Well & Septic Program



**VANMAR
ASSOCIATES, INC.**

Engineers • Surveyors • Planners

310 South Main Street, P.O. Box 328, Mount Airy, Maryland 21771

(301) 829-2890

(301) 831-5015

(410) 549-2751

(301) 695-0600

Fax (301) 831-5603

July 11, 2017

Mr. Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
718 Columbia Gateway Drive
Columbia, MD 21046-2147

RE: Lot 15 OSDS Plan
2039 Terrapin Creek Road
Terrapin Creek Subdivision

The following is a response to the June 30, 2017 comments.

1. The friction loss should be more like 2.05 (per sand mound chart)

Response 1: The computations were revised per the sand mound chart using a 3 minute run time (33.3 GPM). This provides a 1.85 factor for a friction loss of 2.39.

2. The TDH would be more like 19.69 (use 20).

Response 2: The TDH is 20.03 (used 20).

3. TDH of 20 intersects the pump curve at 35 GPM.

Response 3: Pump curve intersection corrected to maximum 35 GPM.

4. Pump should be 1 / 3 HP, WE03.

Response 4: Pump corrected to 1 / 3 WE03M.

5. Pump runtime = 3 minutes.

Response 5: Pump runtime revised to 3 minutes.

6. Change wording in calculation to 2nd replacement.

Response 6: Wording revised to 2nd replacement.

7. House detail elevations do not match layout elevations on plan.

Response 7: House detail elevations corrected.



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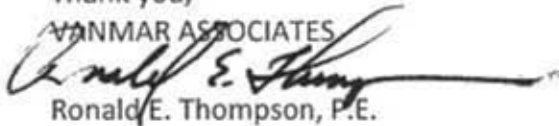
Fax (301) 831-5603

8. *Move d-box inside SDA.*

Response 8: d-box moved inside SDA.

Thank you,

VANMAR ASSOCIATES



Ronald E. Thompson, P.E.



Bureau of Environmental Health

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Twitter: [HowardCoHealthDep](https://twitter.com/HowardCoHealthDep)

Maura J. Rossman, M.D., Health Officer

June 30, 2017

Vanmar Associates, INC.
310 South Main Street
Mount Airy, MD 21771
Attn: Ron Thompson

Sent via email to: ron@vanmar.com

RE:

**OSDS Plan
2039 Terrapin Creek Road
Terrapin Creek, Lot 15
Woodstock, MD 21163**

Hi Ron:

The OSDS Plan for Terrapin Creek, Lot 15 has been reviewed with the following comments:

- 1.) The friction loss should be more like ^{2.75 using 1.5 GPM} 2.05 (per sand mound chart)
- 2.) The TDH would be more like ~~19.69~~ (use 20) ^{20.09} use .
- 3.) TDH of 20 intersects the pump curve at 35 GPM
- 4.) Pump should be a 1/3 HP, WE03.
- 5.) Pump runtime = 3 minutes.
- ✓ 6.) Change wording in calculation to 2nd replacement
- ✓ 7.) House detail elevations do not match Layout elevations on plan
- ✓ 8.) Move d-box inside SDA

Should you have any questions, please don't hesitate to ask.

Respectfully,

Hank Oswald

Hank Oswald, L.E.H.S.
Bureau of Environmental Health
Well & Septic Program

1-27-17

Oswald, Hank

From: Oswald, Hank
Sent: Friday, June 30, 2017 9:40 AM
To: ron@vanmar.com
Subject: OSDS Plan Comments_2039 Terrapin Creek Road
Attachments: OSDS_2039 Terrapin Creek Road_6.2017.pdf

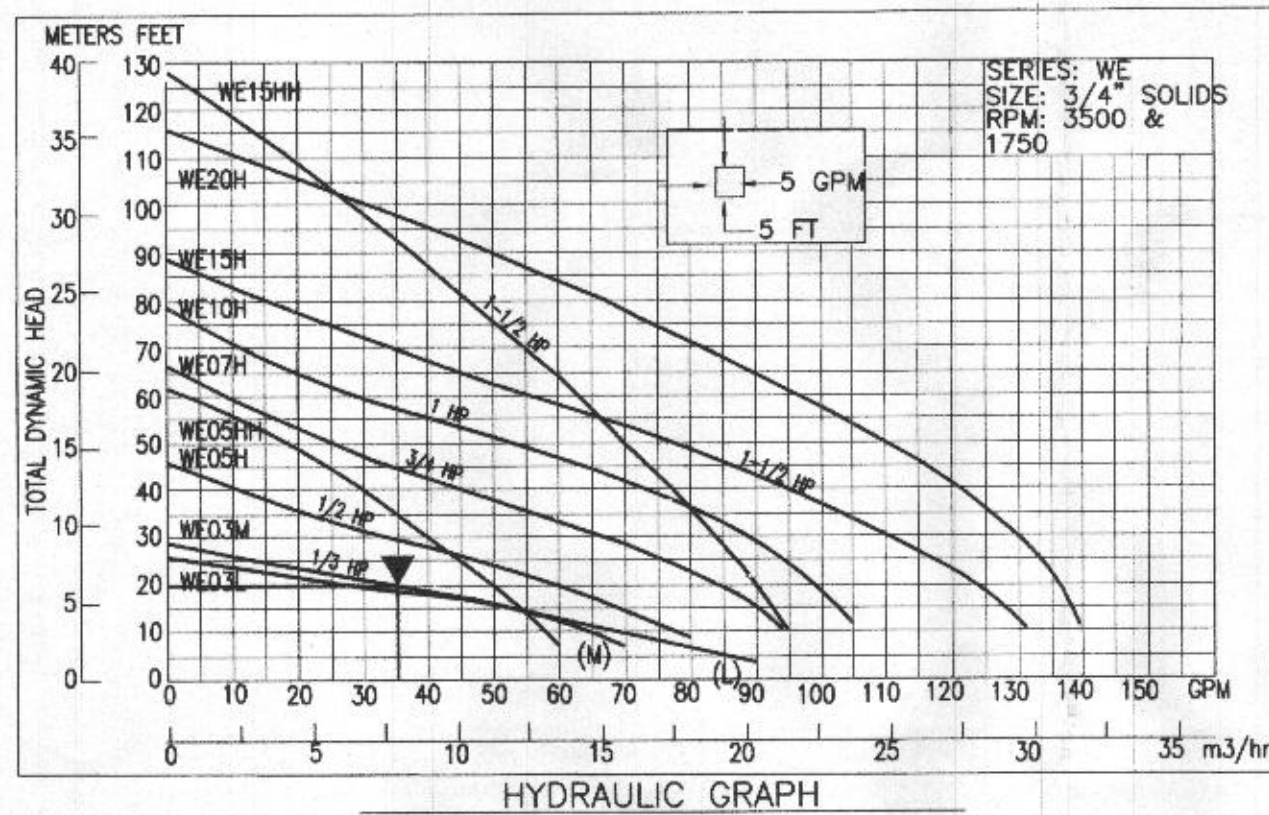
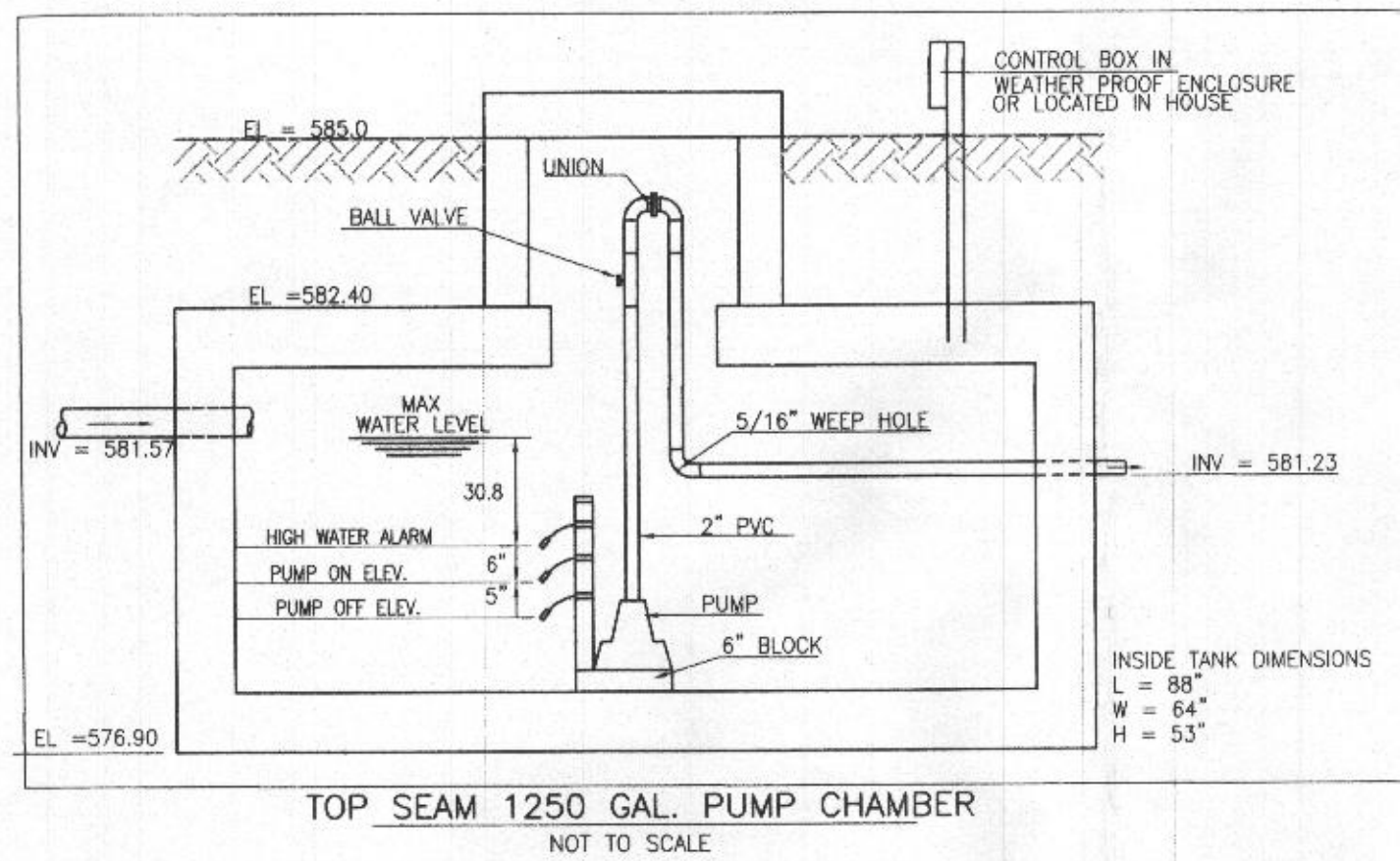
Hi Ron:

Attached, please find comments relating to the review of OSDS Plan for 2039 Terrapin Creek Road.

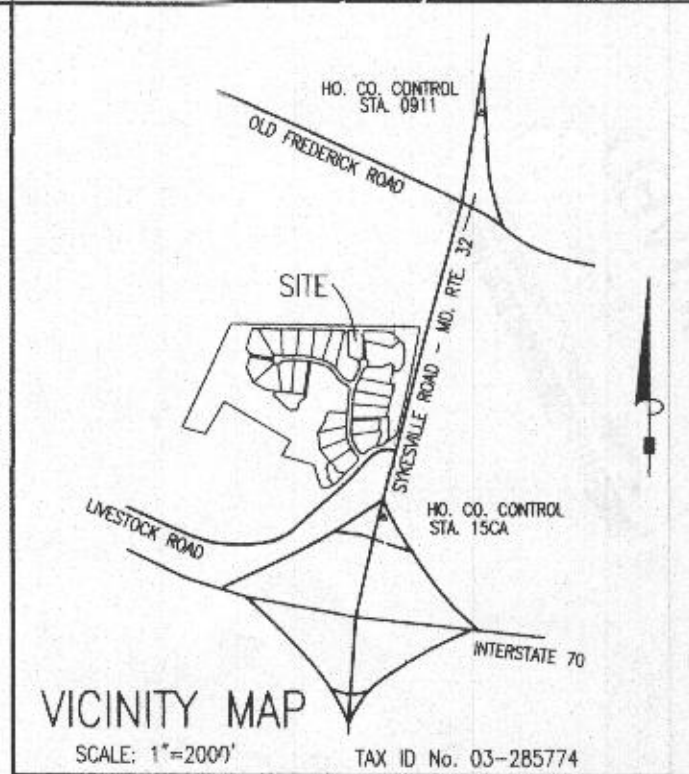
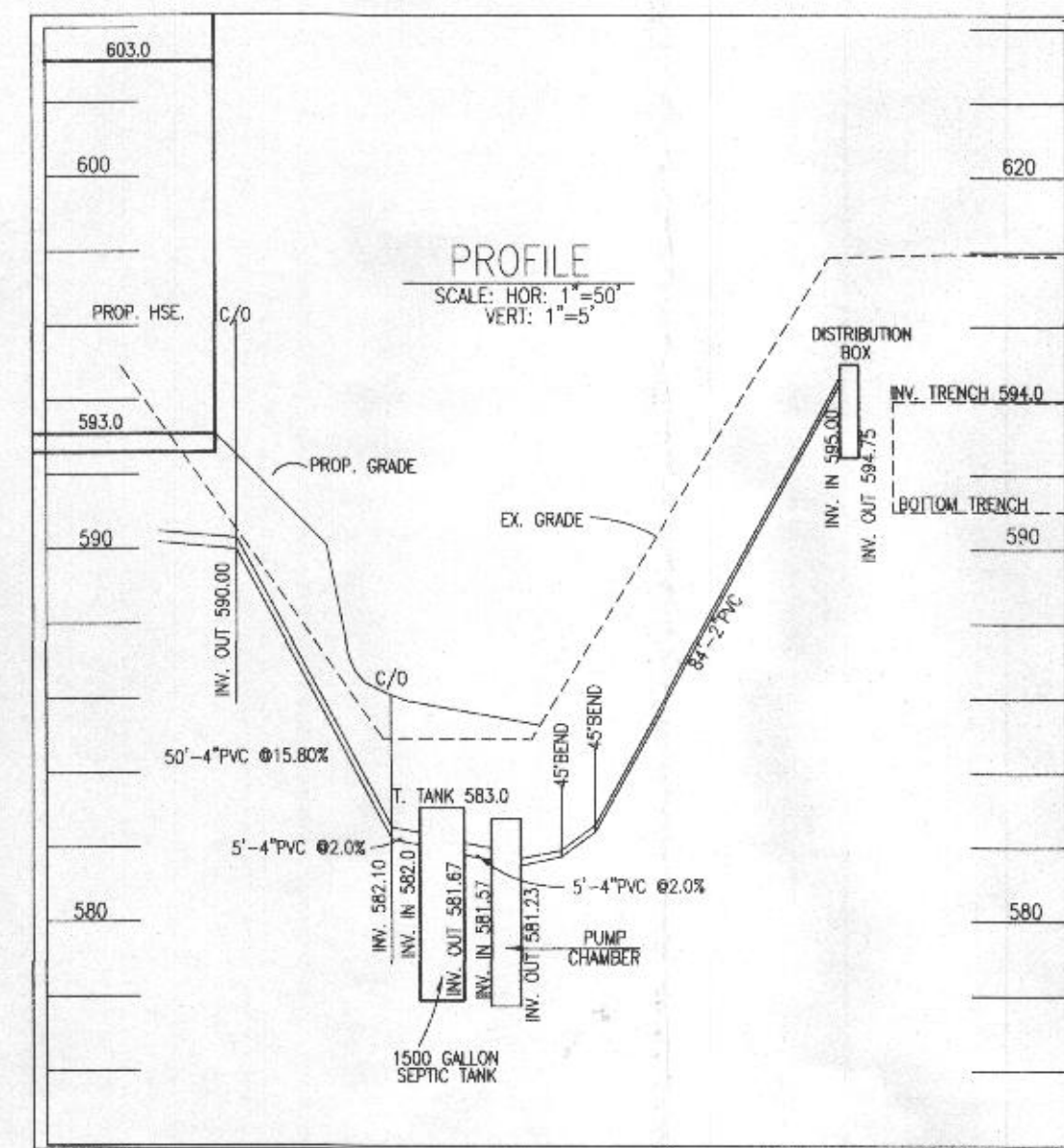
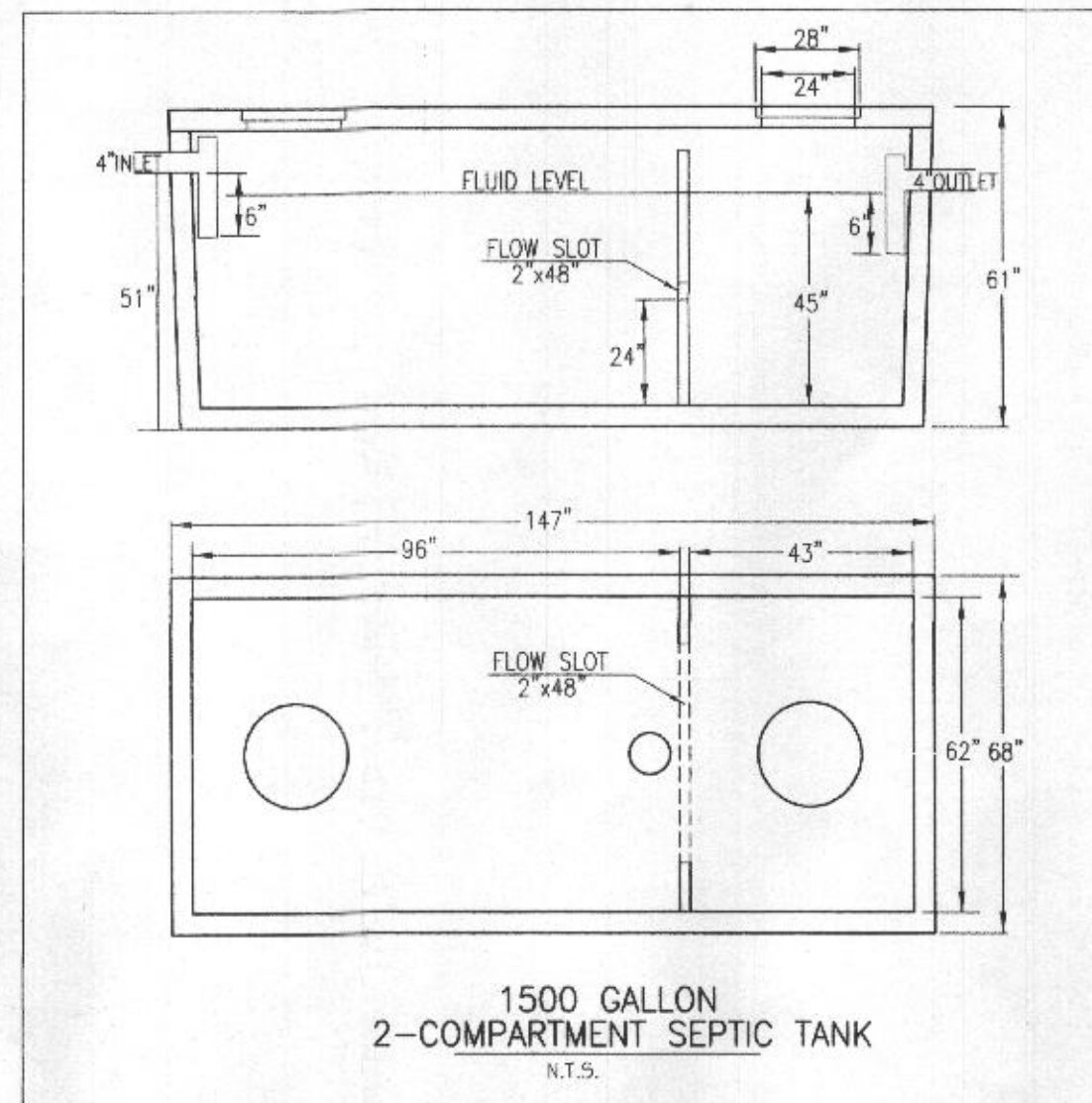
Thanks,

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313.1786 (Office)
410.313.2648 (Fax)



TOTAL DESIGN HEAD (THD) COMPUTATION		LPS PUMP CHART	
STATIC HEAD (595.00-577.31)		1250 GAL-1 CHAMBER TANK	
17.69'		GOULDS WE-03M	
FRICTION HEAD		MAX. PUMP FLOW RATE = 35 GPM	
PIPE 1.85x(87'+42.3')/100		PIPE = 2' PLASTIC	
FITTINGS: 2-45'x24' = 8		PIPE LENGTH = 84 FEET	
DISCONNECT: = 3		ELEV. DIFF. = 17.69 FEET	
1-90' x3/10		TDH = 20.08 FEET	
BALL VALVE 1.3X1 = 1.3		DOSE FLOW = 3 MIN.	
TOTAL DESIGN HEAD (THD)		20.08	



GENERAL NOTES:

- TOPOGRAPHY & PLANNIMETRIC FEATURES SHOWN HEREON TAKEN FROM COPYRIGHTED GS DATA FROM HOWARD COUNTY, SUPPLEMENTED WITH FIELD LOCATIONS BY VANMAR ASSOCIATES, INC. CONTOUR INTERVAL IS 2 FEET. VERTICAL DATUM IS NAVD83.
- THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY VANMAR ASSOCIATES OR TAKEN FROM AVAILABLE RECORDS AND ACCURATELY SHOWN.
- ZONING DISTRICT: RC-DEO
- LIMIT OF DISTURBANCE (LOD) = 22,500 SQ.FT.
- THERE ARE NO STREAMS, PONDS, FLOODPLAINS OR WETLANDS ON THIS LOT.
- STORM WATER MANAGEMENT FOR THIS LOT IS PROVIDED BY EXISTING TERRAPIN CREEK STORM WATER MANAGEMENT FACILITIES PROVIDED FOR AND CONSTRUCTED BY THE DEVELOPER UNDER PLAN F-07-086.

SEPTIC SYSTEM TRENCH DESIGN

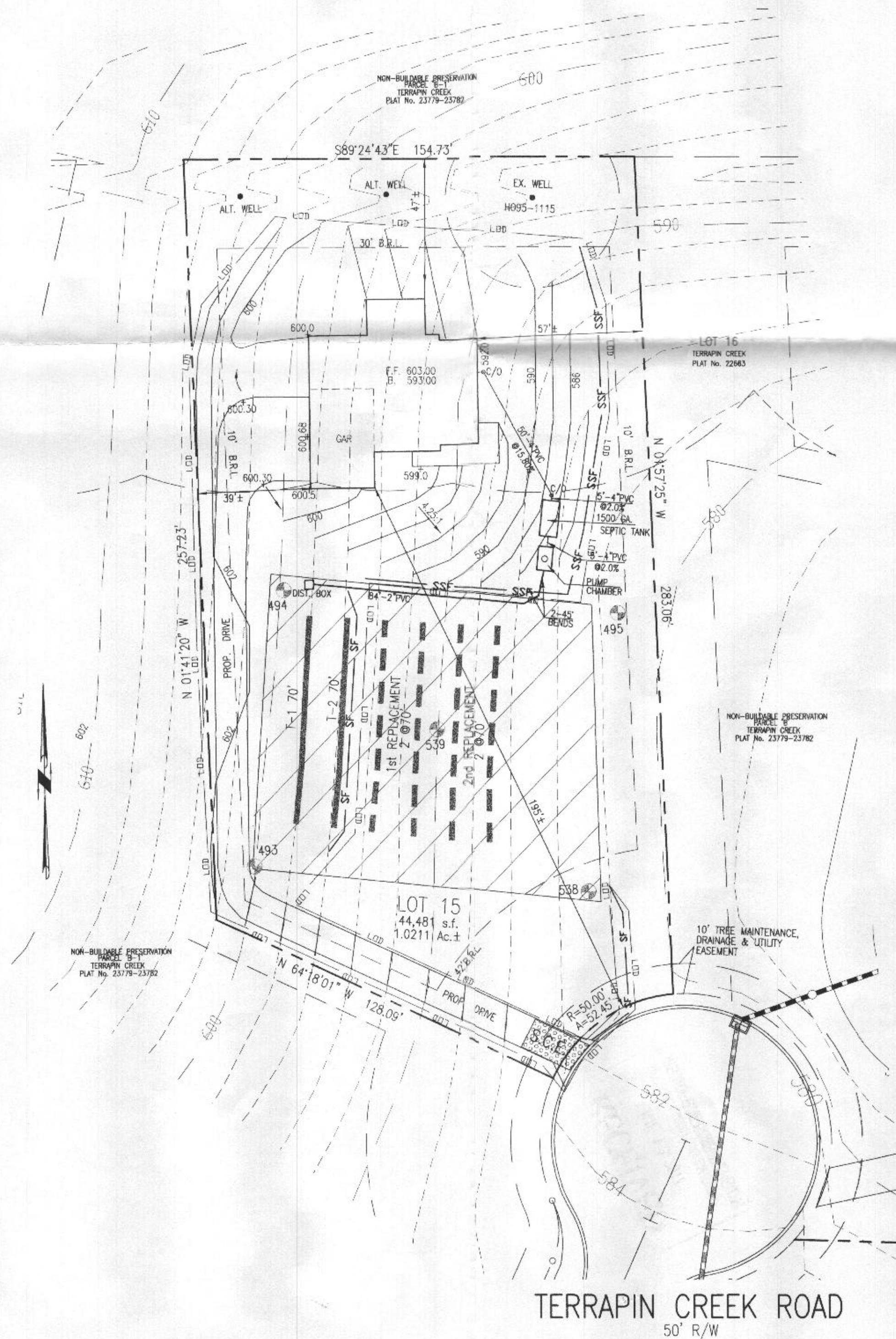
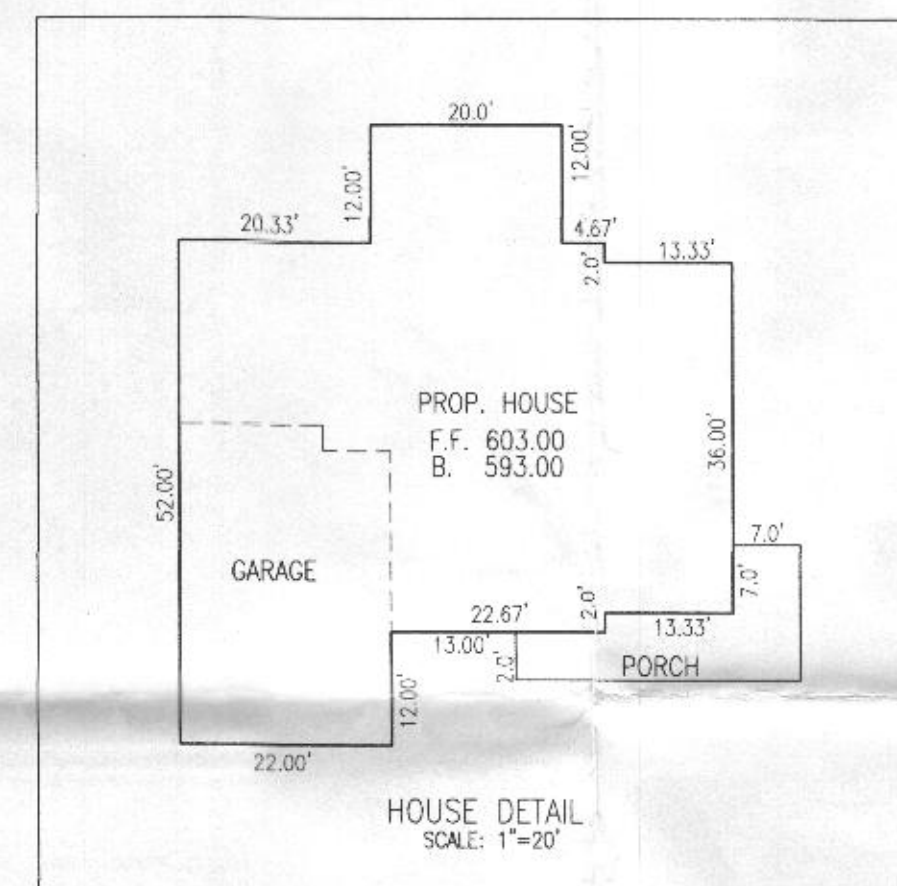
INITIAL NUMBER OF BEDROOMS = 4
 APPLICATION RATE = 0.8 GPD / sq.ft.
 DESIGN FLOW: 150 GPD X 4 BEDROOMS = 600 GPD
 600 GPD / 0.8 GPD/sq.ft. = 750 sq.ft.
 750 sq.ft. / 3 ft. WIDE TRENCH = 250 LF TRENCH
 250 LF TRENCH X 0.56 REDUCTION CREDIT = 140 LF TRENCH
 TRENCH 1 (T1) EX. GRD=598.0 -INV. TRENCH=594.0 -B. TRENCH=591.0
 TRENCH 2 (T2) EX. GRD=596.0 -INV. TRENCH=592.0 -B. TRENCH=589.0

1st REPLACEMENT
 APPLICATION RATE = 0.8 GPD / sq.ft.
 DESIGN FLOW: 150 GPD X 4 BEDROOMS = 600 GPD
 600 GPD / 0.8 GPD/sq.ft. = 750 sq.ft.
 750 sq.ft. / 3 ft. WIDE TRENCH = 250 LF TRENCH
 250 LF TRENCH X 0.56 REDUCTION CREDIT = 140 LF TRENCH

2nd REPLACEMENT
 APPLICATION RATE = 0.8 GPD / sq.ft.
 DESIGN FLOW: 150 GPD X 4 BEDROOMS = 600 GPD
 600 GPD / 0.8 GPD/sq.ft. = 750 sq.ft.
 750 sq.ft. / 3 ft. WIDE TRENCH = 250 LF TRENCH
 250 LF TRENCH X 0.56 REDUCTION CREDIT = 140 LF TRENCH

SITE PLAN NOTES:

- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- MAXIMUM COVER OVER THE TANK IS 3 FEET. GREATER DEPTH WILL REQUIRE A HEAVY LOAD BEARING TANK.
- ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- THE WELL (TAG #HO-95-1115) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
- ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.



PROFESSIONAL CERTIFICATION
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 18417, Expiration Date: 8-18-17.

DATE	REVISIONS
7/3/17	HEALTH DEPT. COMMENTS

OWNER:
 LDG INC.
 LEE PLAZA, SUITE 200
 8601 GEORGIA AVENUE
 SILVER SPRING, MD. 20910
 301-585-7000
 DEVELOPER:
 CATONVILLE HOMES
 1175 STRATFIELD CT
 MARIOTTSVILLE, MD. 21104
 410-442-2211



ON SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

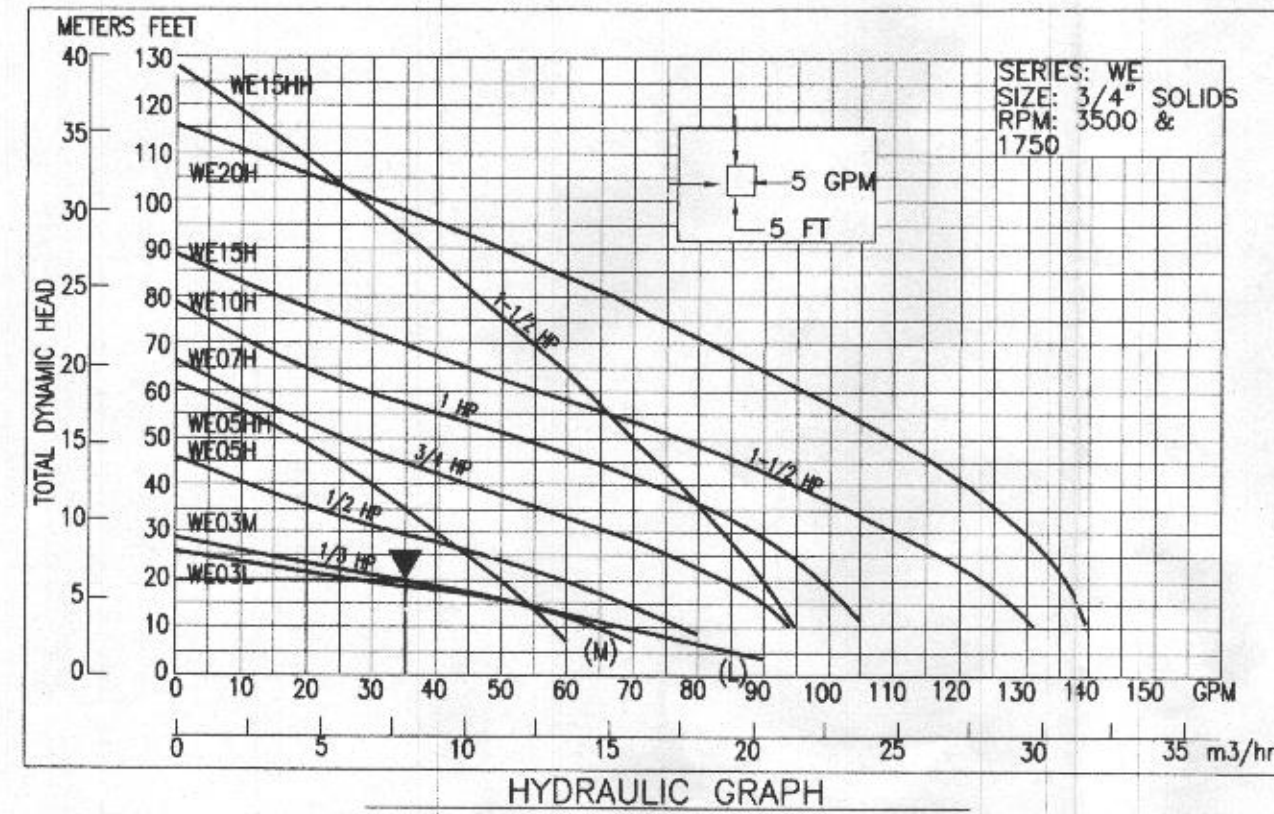
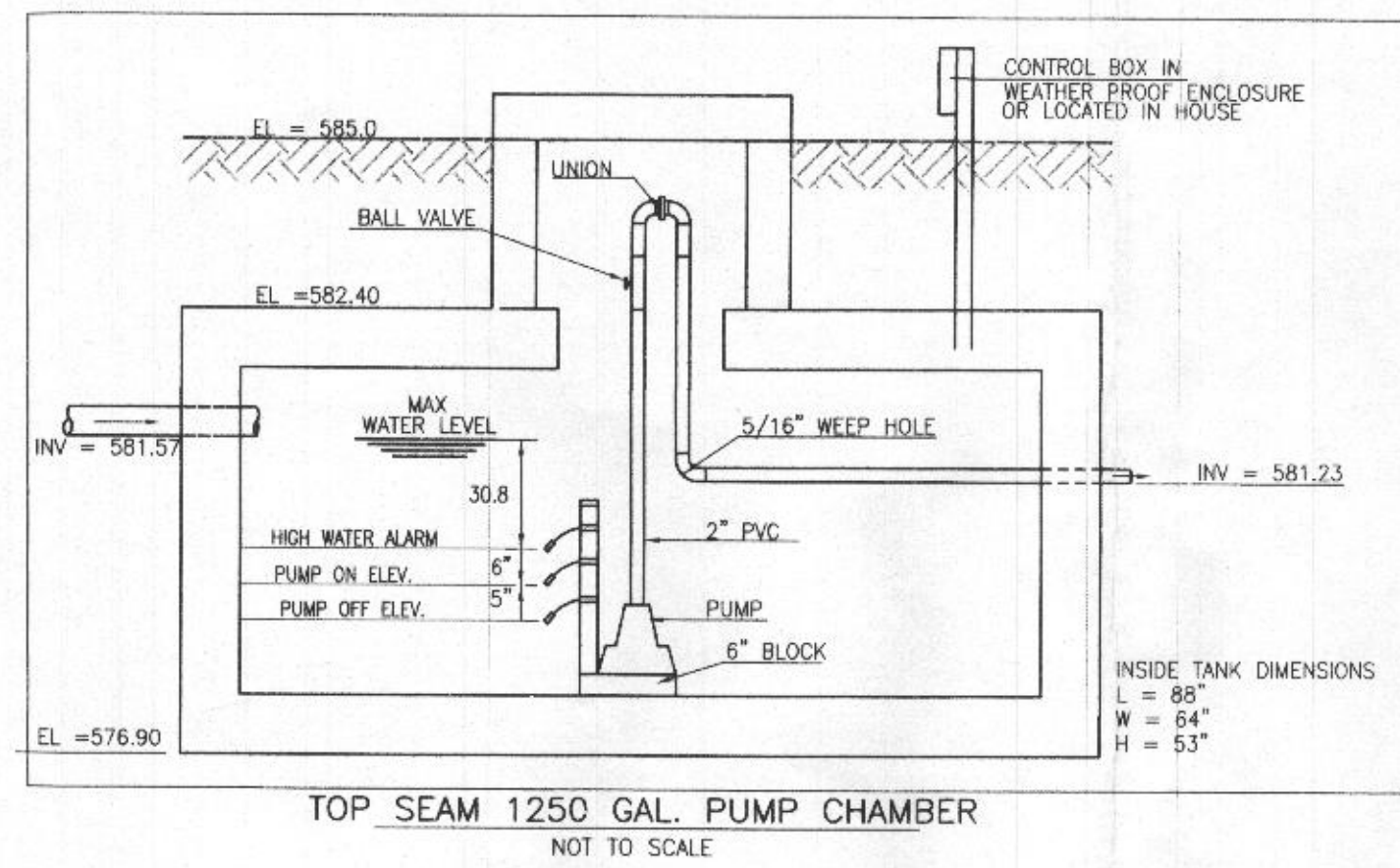
LOT 15
 TERRAPIN CREEK
 PLAT 22661 - 22664
 TAX ID No. 03-285774

2039 TERRAPIN CREEK ROAD MILO COURT
 THIRD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30' APRIL, 2017

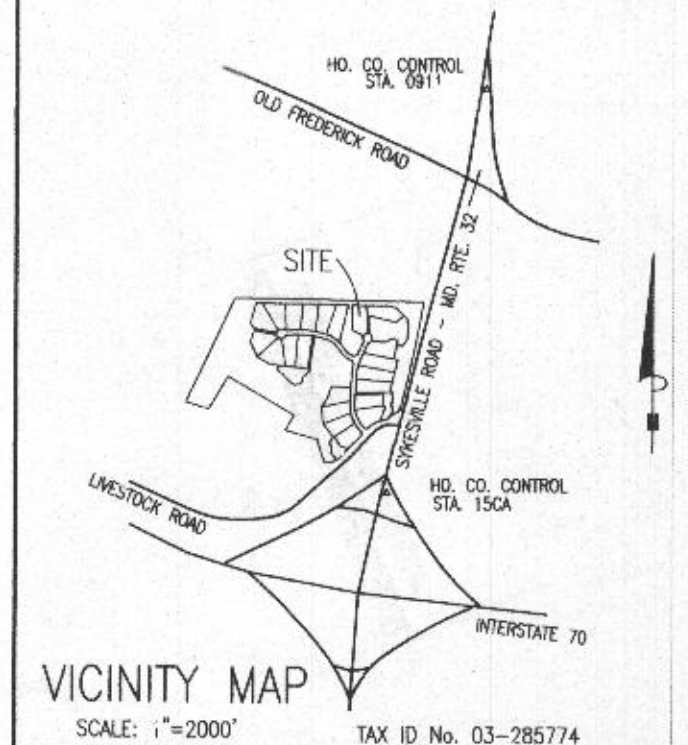
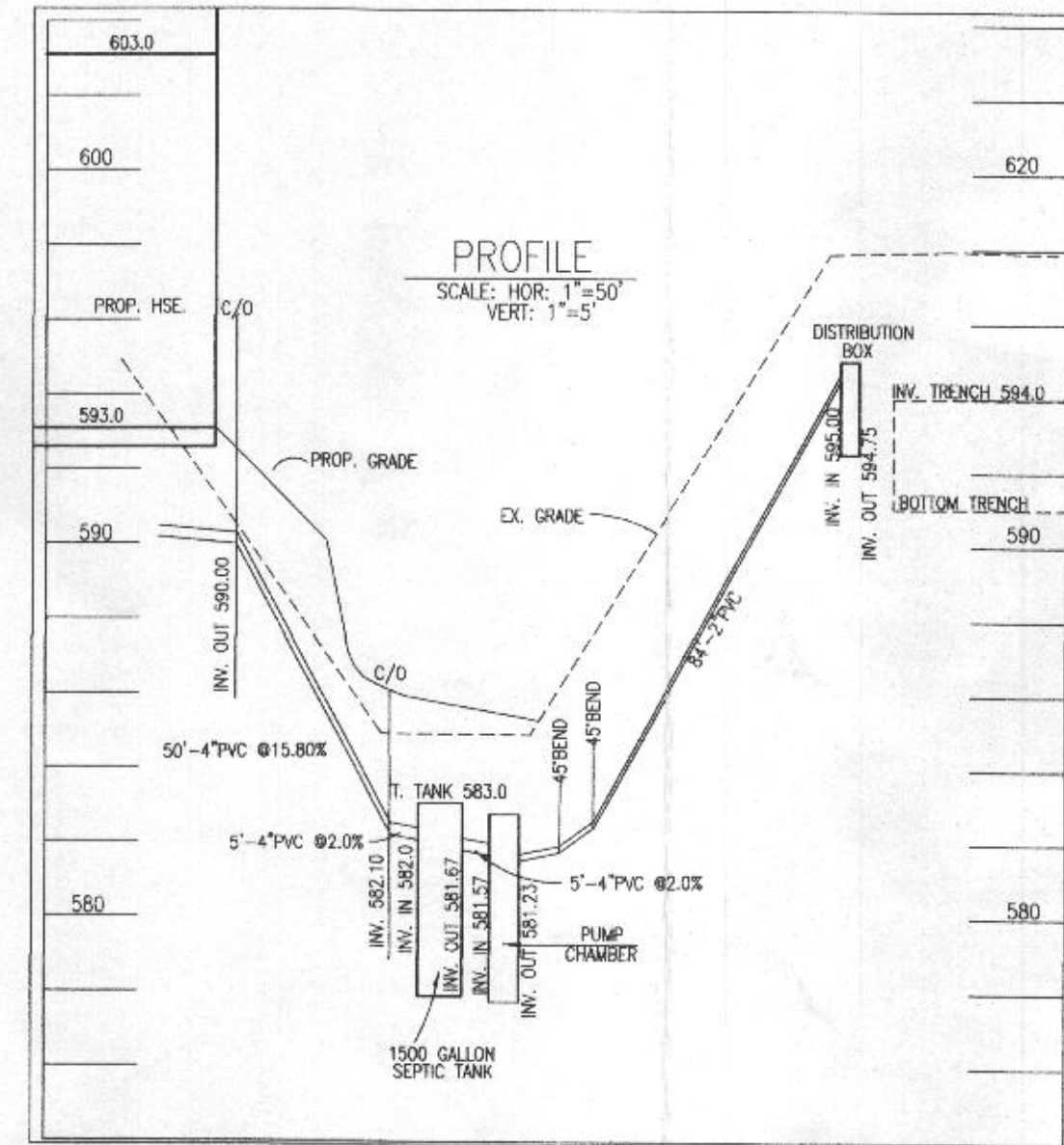
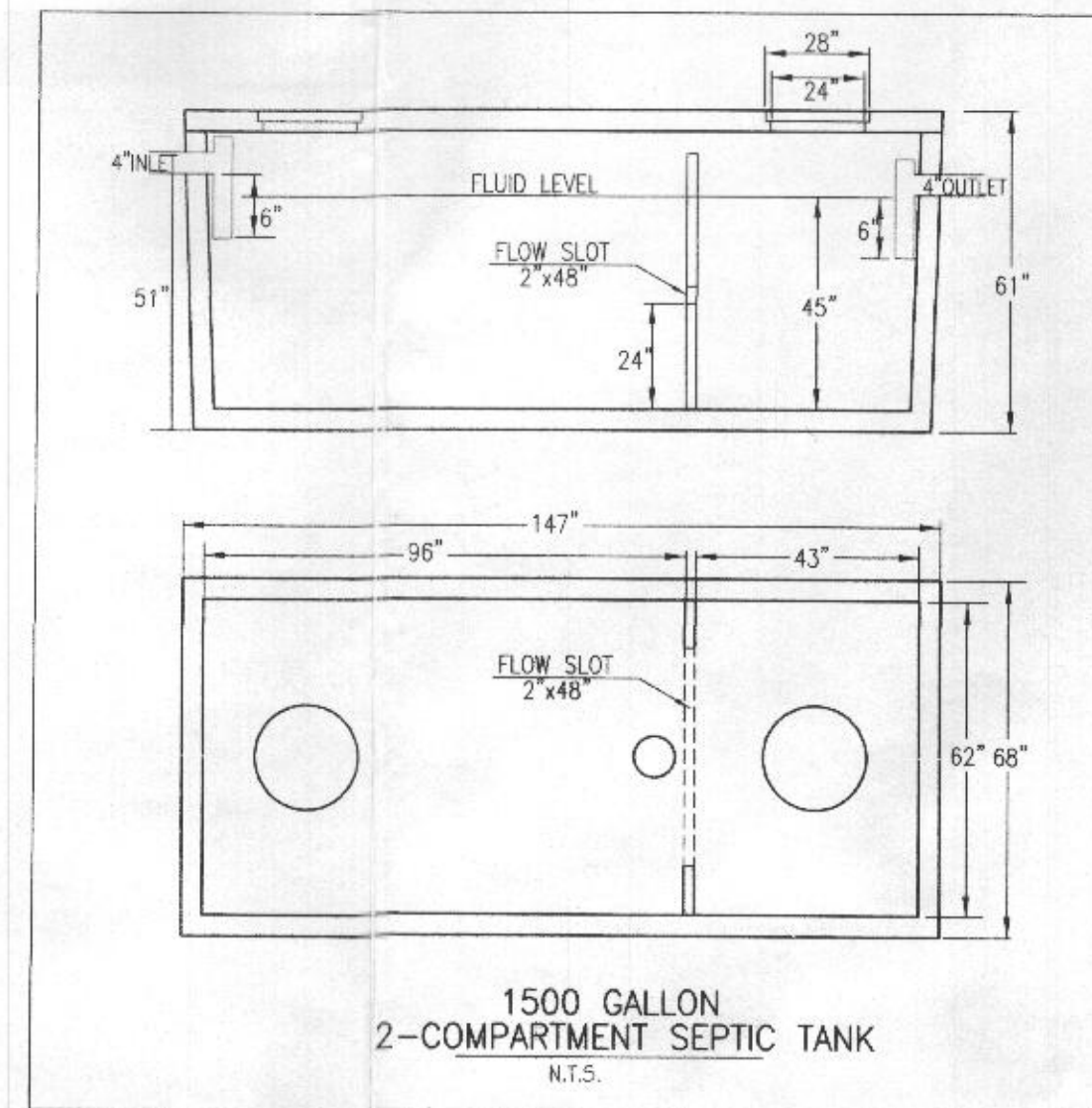


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 Engineers Surveyors Planners
 310 South Main Street Mount Airy, Maryland 21771
 (301) 828-2880 (301) 831-5015 (410) 546-2751
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SHEET 1 OF 1



TOTAL DESIGN HEAD (TDH) COMPUTATION		LPS PUMP CHART	
STATIC HEAD (595.00-577.31)		1250 GAL-1 CHAMBER TANK	
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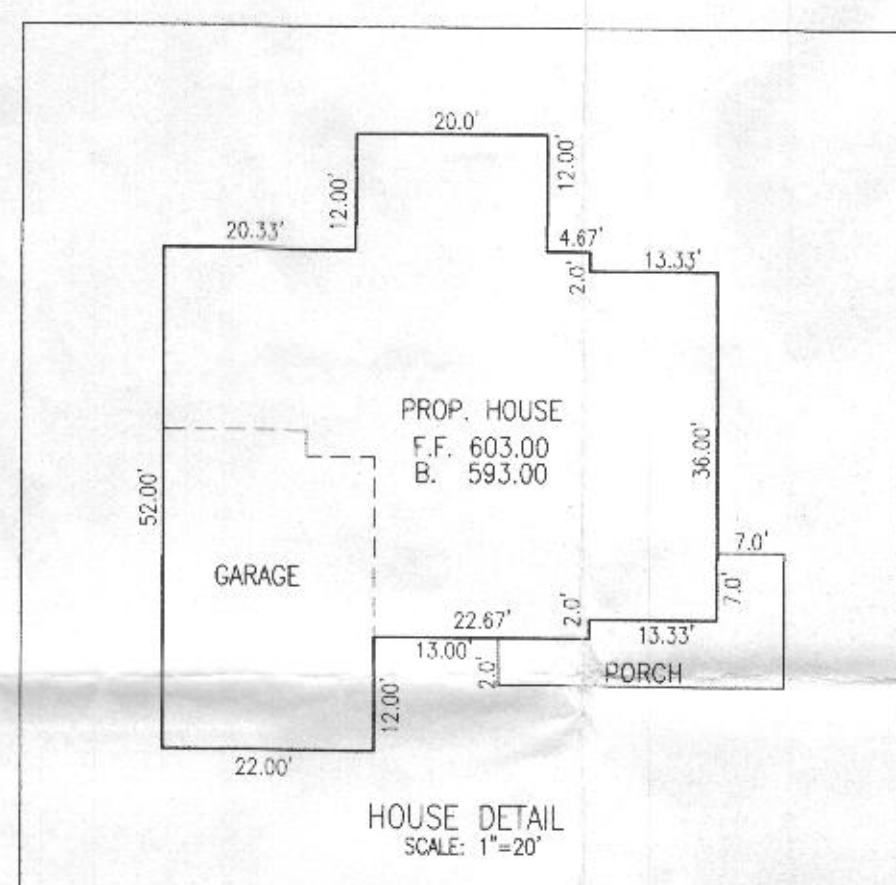
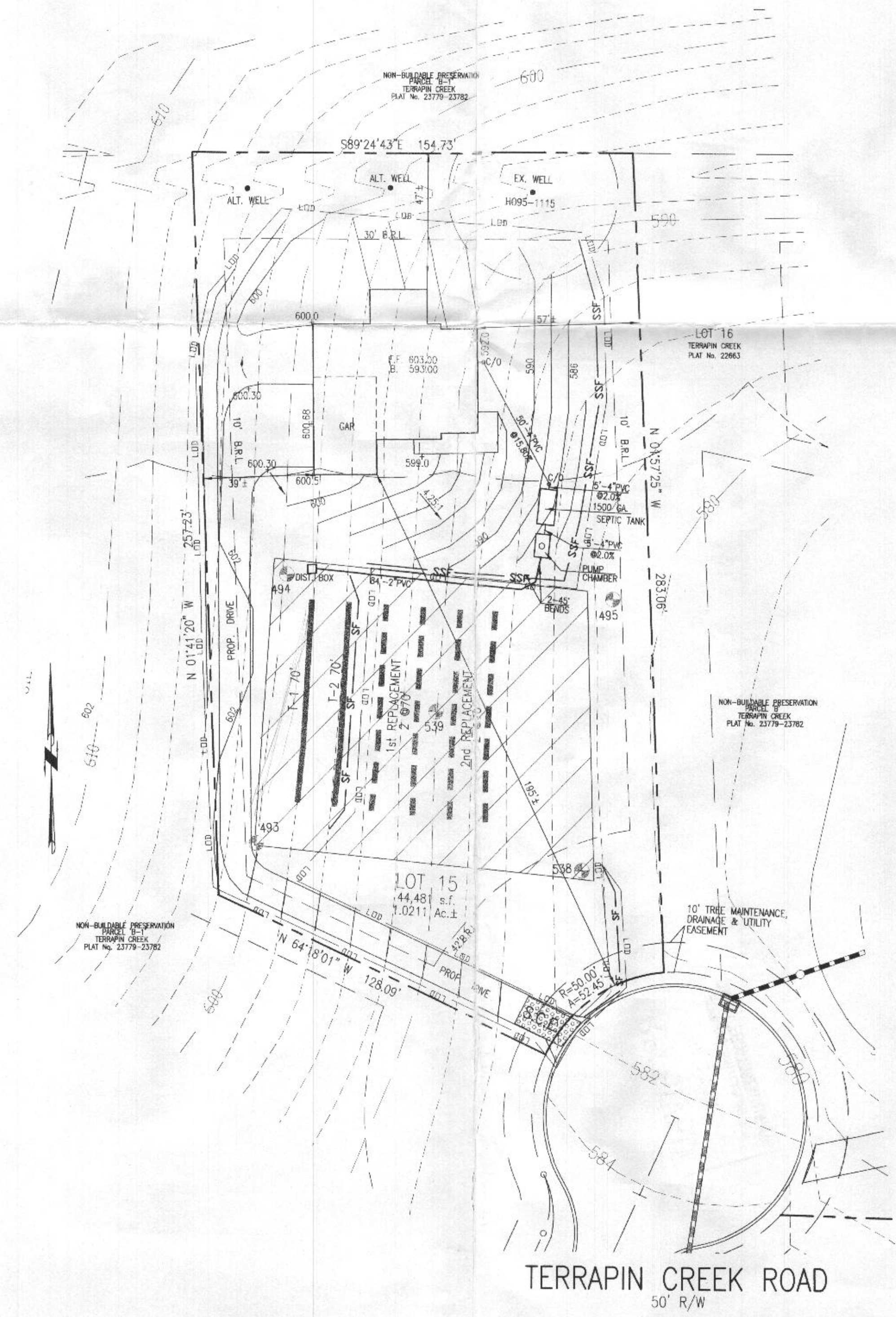
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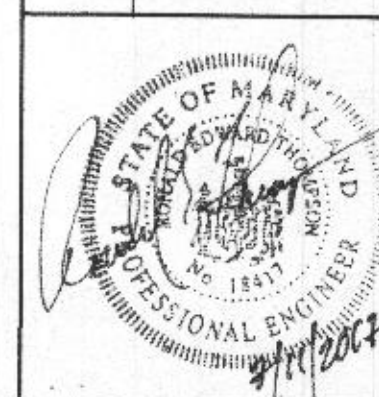
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 - ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
 - THE WELL (TAG #HO-95-1115) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
 - ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.



PROFESSIONAL CERTIFICATION
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 18412, Expiration Date: 9-18-17.

DATE	REVISIONS
7/3/17	HEALTH DEPT. COMMENTS



OWNER:
LDG INC.
LEE PLAZA, SUITE 200
8601 GEORGIA AVENUE
SILVER SPRING, MD. 20910
301-585-7000

DEVELOPER:
CATONVILLE HOMES
11175 STRATFIELD CT.
MARRIOTTVILLE, MD. 21104
410-442-2211

ON SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

LOT 15
TERRAPIN CREEK

PLAT 22661 - 22664
TAX ID No. 03-285774
2039 TERRAPIN CREEK ROAD MILD COUNTRY
THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' APRIL, 2017



VANMAR ASSOCIATES, INC.
Engineers/Surveyors Planners
310 South Main Street Mount Airy, Maryland 21771
(301) 829-2890 (301) 831-5015 (410) 549-2751
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LETTER OF TRANSMITTAL

☐ AGENCY ☐ CLIENT ☐ FILE ☐ BILLING ☐ CORRESPONDANCE ☐ OTHER

VanMar Associates, Inc.

Engineers ~ Surveyors ~ Planners
310 South Main Street, P.O.Box 328, Mt. Airy, MD 21771
301-829-2890 301-831-5015 301-695-0600
410-549-2751 (FAX) 301-831-5603

TO: : Howard County Health Department
Bureau of Environmental Health
8930 Stanford Blvd
Columbia, Maryland 21045

Attn: Hank Oswald

DATE: July 12, 2016

PROJECT: Terrapin Creek, Lot 15

2039 Terrapin Creek

VMA# B4-5428

ENCLOSED:

COPIES	DATE	DESCRIPTION
3	6/30/16	Email Comments from Hank Oswald and reply
3	7/11/17	Letter of Response to Comments to Hank Oswald, L.E.H.S.
3	7/11/16	Revised On Site Sewage Disposal System Design Plan Lot 17 Terrapin Creek

REMARKS: Hi Hank, plan revised to reflect your comments. Submitted for review and approval.
Thank you and have a great day!

COPIES TO (ADDRESS): Catonsville Homes, 11175 Stratford Court, Marriottsville, Maryland 21104

SUBMITTED BY dkv

G:\ENGRS.\B45428.Ho.Co.H.D. lot 15 rev sewage disposal system plan 7.12.2017



HOWARD COUNTY HEALTH DEPARTMENT

61534-1

DATE

9/25/17

Received From

WTC Contractors

PHONE #

410-451-9000

☐ CASH☐ CHECK

NO.

For

For 3 Permits x 3 2015 Term (check KRI)
2031 Term (check KRI) 14524 (all in check KRI)

Eleven hundred eighty eight = 1188 Dollars

\$

1188 00

Received By

J. L. G. / J. L. G.