



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: 5-15-19 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 565491

APPROVAL DATE: 6/5/19 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 15205 Torino Way

SUBDIVISION: Fairlane Farms

LOT: 25

TAX ID: _____

CONTRACTOR: South Carroll Backhoe

EMAIL: scbackhoe@comcast.com

CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157

PHONE: 410-596-3618

PROPERTY OWNER: NV Homes

EMAIL: _____

OWNER ADDRESS: 9720 Patuxent Woods Drive, Columbia, MD 21046

PHONE: 410-379-5956

SEPTIC TANK SIZE (GALLONS): 2000

TANK MANUFACTURER: Babylon Vault or equivalent

PUMP MODEL: N/A

PUMP SIZE

N/A

PUMP TANK CAPACITY: N/A

DISTRIBUTION SYSTEM: ☒ GRAVITY

☐ PRESSURE DOSED

BEDROOMS: 5

APPLICATION RATE 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>130.31</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Install 3 trenches @ 43.44 FT INSTALL SPEC 4" SILVER LINE PVC 1120 SCH 40 PR 220 PSI @ 73°F ASTM D2665 SOLVENT WELDED	

ISSUED BY: Hank Oswald

ISSUE DATE: 5-15-19

EXPIRATION DATE: 5-15-19

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 DOWNGRADE 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.

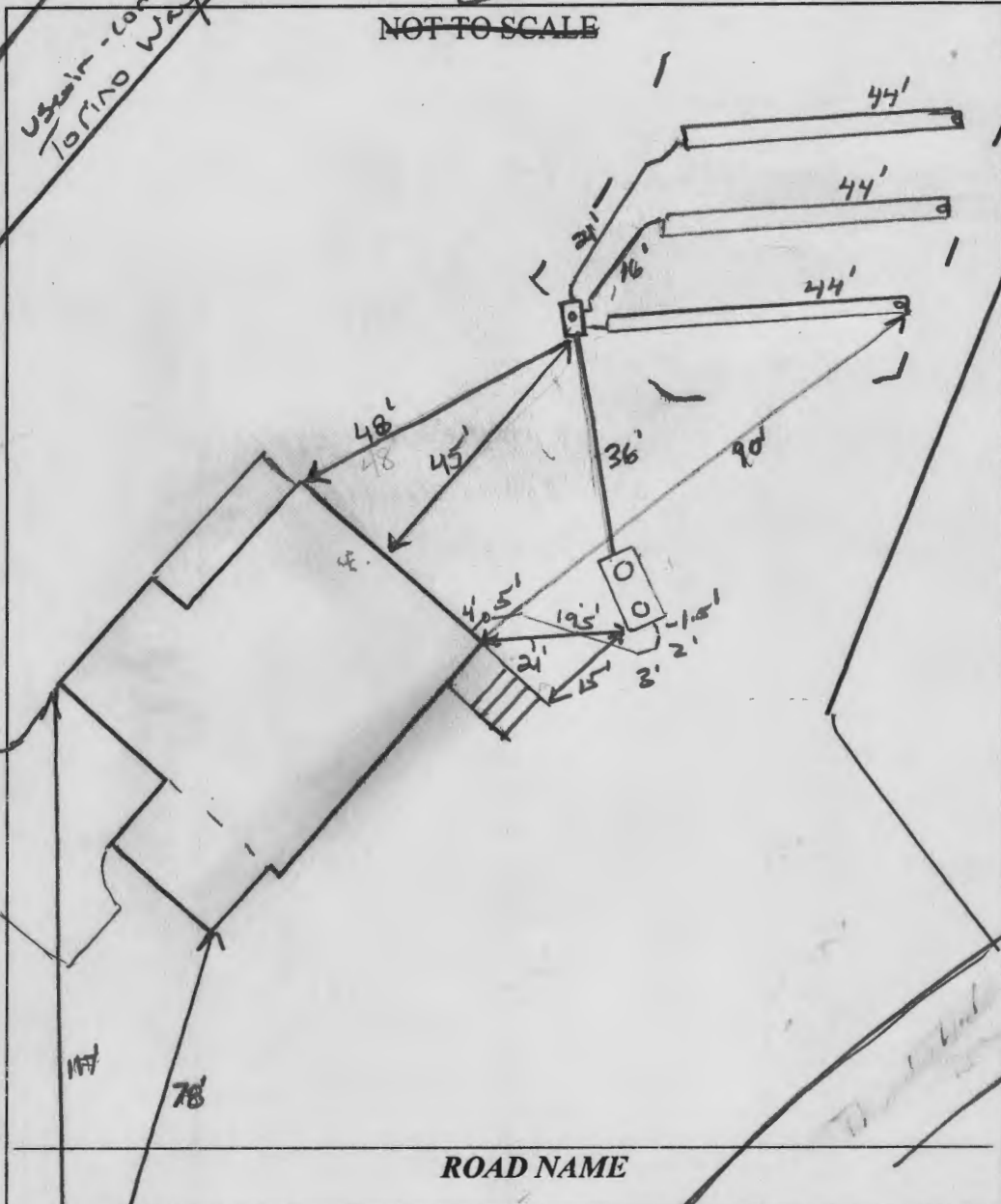
PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

Usual - common
TODINO WAY

1" = 30'

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3	3	7
NUMBER OF TRENCHES		
3		
TOTAL LENGTH		
132'		
ABSORPTION AREA		
396'±SW		
DISTRIBUTION BOX LEVEL		
Level 1		
DISTRIBUTION BOX BAFFLE		
YES		
DISTRIBUTION BOX PORT		

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	2'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT/BACK
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	YES
DATE ON LID	4/15/2019

PUMP/SEPTIC TANK LEVEL	N/A
MANUFACTURER	
CAPACITY	GAL
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

PRE-CONSTRUCTION:
5/28/2019 TANK AND SDA STAKED. LAID OUT THREE TRENCHES. OK TO START. (P)

INSTALLATION: 5/29/2019 SL FROM HOUSE TO TANK INSTALLED. TANK SET. LINE INSTALLED FROM TANK TO D BOX. D BOX SET. CONSTRUCTING UPPER TRENCH. (P) 5/30/19 System installed per plan. OK to backfill. (P) 6/5/19 Sewer house connection made (KMD)

FINAL INSPECTOR J. H. Wally DATE OF APPROVAL 6/5/19

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

MEMORANDUM

TO: Fisher, Collins & Carter, Inc.
10272 Baltimore National Pike
Ellicott City, MD 21042

FROM: Hank Oswald, L.E.H.S.
Well & Septic Program

RE: OSDS Plan
15205 Torino Way

Date: March 21, 2019

The OSDS Plan has been reviewed with the following comments:

- 1.) Show 1st replacement system on contour. Recommend splitting the system into 4 - 32.6 ft trenches.
- 2.) Show entire 2nd replacement system.
- 3.) Move septic tank 20 feet from basement walkout.

Oswald, Hank

From: Oswald, Hank
Sent: Tuesday, March 26, 2019 8:49 AM
To: 'Dave Harward, III'
Subject: RE: Fairlane Farms Lots 25 & 26
Attachments: Fairlane Farm Lot 25.pdf

Hi Dave:

I was thinking 4-32.6 ft. trenches for the first replacement system on lot 25 to keep the system on contour. I will have to get back to you about Lot 26. Jeff isn't in today.

Thanks,

Hank

From: Dave Harward, III <DaveH@fcc-eng.com>
Sent: Tuesday, March 26, 2019 8:13 AM
To: Oswald, Hank <hoswald@howardcountymd.gov>
Subject: Fairlane Farms Lots 25 & 26

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hank,

Attached are the two lots we spoke about earlier. Hopefully my explanations were clear enough that you can convey them to Jeff. If it needed, I can speak with Jeff as well.

Please let me know if you need my assistance on these issues. Grading of swales have been adjusted to maximize the distance from the septic areas and as I stated, the use in common driveway must have a drainage swale on the low side of the septic area.

Thanks again for your help on these.

Dave.



**FISHER, COLLINS
& CARTER, INC.**

**CIVIL ENGINEERING CONSULTANTS
and LAND SURVEYORS**

Transmittal

Terrell A. Fisher, P.E., L.S.
Earl D. Collins, P.E.
Charles J. Crovo, Sr., P.E., L.S.

Paul W. Kriebel, P.E.
Mark L. Robel, P.L.S.
Aldo M. Vitucci, P.E.
Frank Manalansan II, L.S.
Stephanie Tuite, RLA, P.E., LEED AP BD&C

Via: ☐ Fax ☐ Mail ☒ Messenger ☐ E-Mail ☐ To Be Picked Up
☐ Fax (original to follow via U.S. Mail)

To: **Bureau of Environmental Health**
8930 Stanford Blvd.
Columbia, Maryland 21046-4544

Attn: **Hank**
Fax:
Phone: **410-313-2640**

From: **Tony Fertitta**

CC:

Re: **Fairlane Farms, Lot 25**

W.O.# **05106-3003**

Date: **March 15, 2019**

Pages: **0** Page(s) Including this cover

We are forwarding: ☒ Prints ☐ Copy of Letter ☐ Specifications ☐ Shop drawings ☐ Other
☐ Urgent ☐ For your use ☐ As requested ☒ For Review & Comment

Remarks:

Re: Fairlane Farm, Lot 25, 15205 Torino Way.

Here are 3 copies of the OSDS for Lot 25 for your review/approval Please let me know if you have any questions.

Thank You,

Tony.

Fisher, Collins, & Carter, Inc. Ph. 410-461-2855

CONFIDENTIALITY NOTICE

This transmission contains confidential information which may be legally privileged, and is intended only for the use of the individual named above. If you are not the intended recipient, you are hereby notified that any distribution (except to the intended recipient), copying, or disclosure of this transmission is strictly prohibited.

Transmittal

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☐ Fax (original to follow via U.S. Mail)

To: **Bureau of Environmental Health**
8930 Stanford Blvd.
Columbia, Maryland 21046-4544

Attn: **Hank**
Fax:
Phone: **410-313-2640**

From: **Tony Fertitta**

CC:

Re: **Fairlane Farms, Lot 25**

W.O.# **05106-3003**

Date: **March 7, 2019**

Pages: **0** **Page(s) Including this cover**

We are forwarding: ☒ Prints ☐ Copy of Letter ☐ Specifications ☐ Shop drawings ☐ Other
☐ Urgent ☐ For your use ☐ As requested ☒ For Review & Comment

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

TO: Fisher, Collins & Carter, Inc.
10272 Baltimore National Pike
Ellicott City, MD 21042

FROM: Hank Oswald, L.E.H.S.
Well & Septic Program

RE: OSDS Plan
15205 Torino Way

Date: March 15, 2019

The OSDS Plan has been reviewed with the following comments:

- 1.) Sidewall calculation is incorrect for the initial and replacement system. Should be 0.417.
- 2.) Raise initial system trench inverts to 3 feet to receive 4 foot of sidewall credit. Ensure septic profile and trench detail matches change.

Oswald, Hank

From: Oswald, Hank
Sent: Friday, March 15, 2019 8:34 AM
To: 'Tony Fertitta'
Cc: Williams, Jeffrey
Subject: OSDS Plan Review Comments_15205 Torino Way_Lot 25
Attachments: OSDS Memo To FCC_2019.pdf

Hi Tony:

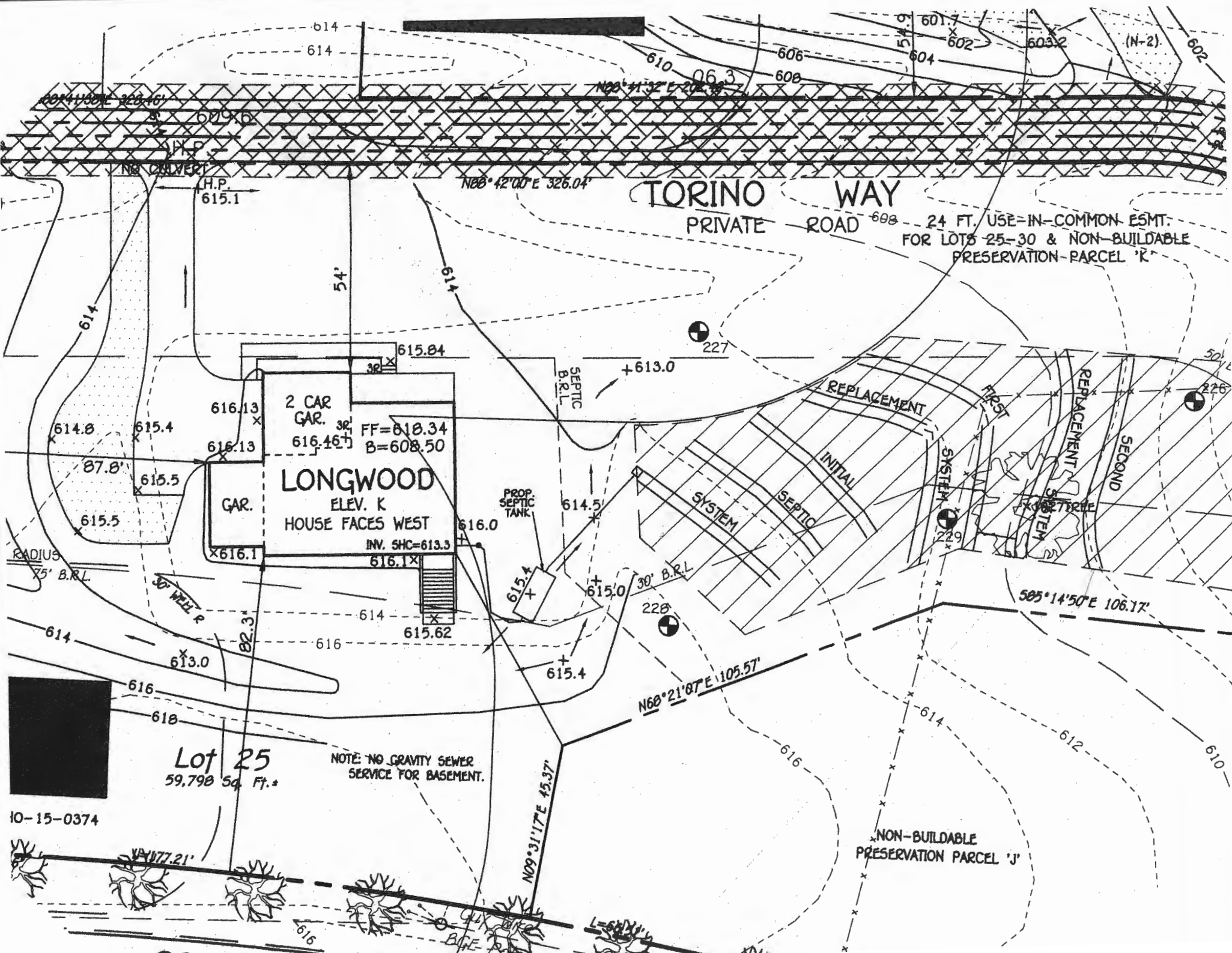
Attached, please find comments on the OSDS Plan for 15205 Torino Way.

Hank

Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
Columbia, MD 21045
410.313,1786 (Office)
hoswald@howardcountymd.gov

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GENERAL NOTES:

- 1) THIS LOCATION DRAWING IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM INsofar AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR REFINANCING OF THE PROPERTY SHOWN HEREON. UNLESS INDICATED AS BEING A BOUNDARY SURVEY, THIS LOCATION DRAWING IS NOT INTENDED FOR USE IN THE ESTABLISHMENT OF PROPERTY LINES AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATIONS OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE IMPROVEMENTS. AS A RESULT, THIS LOCATION DRAWING DOES NOT PROVIDE FOR ACCURATE IDENTIFICATION OF PROPERTY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING FOR RE-FINANCING.
- 2) SUBJECT PROPERTY IS SHOWN IN ZONE X ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL No. 24027C00350 EFFECTIVE 11-06-2013.
- 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF PLUS OR MINUS 1.0'.
- 4) NO TITLE REPORT FURNISHED. SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND CONDITIONS OF RECORD.
- 5) THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-15-0387 HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.
- 6) PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 339, EXPIRATION DATE 10/04/2020.
- 7) BUILDING PERMIT #B-19000567

Legend

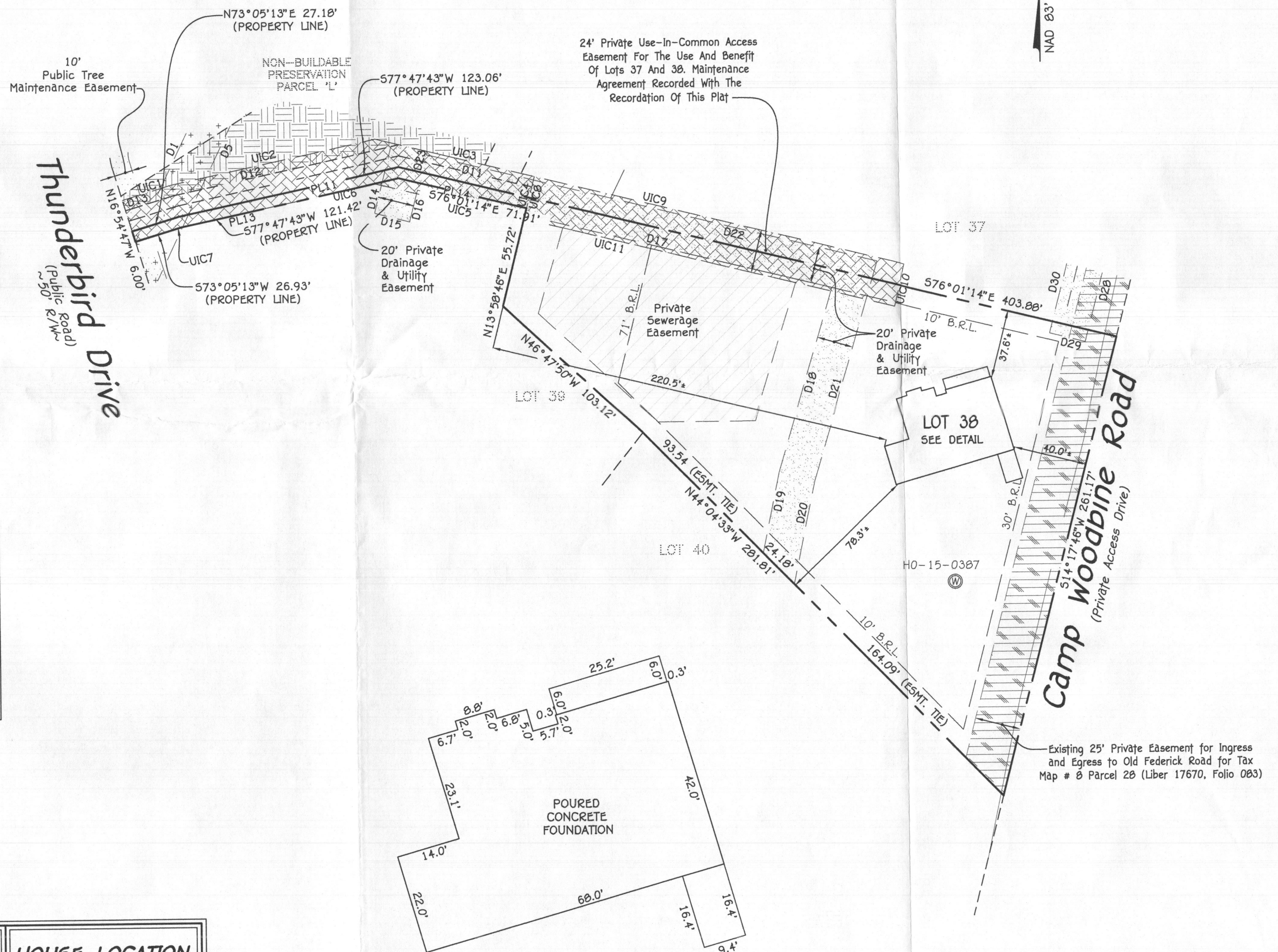
- 10' Public Tree Maintenance Easement
- Public Drainage & Utility Easement

Property Line Line Table		
LINE	BEARING	LENGTH
PL1	N72°31'13"E	45.90'
PL2	N77°37'38"E	21.10'
PL3	S12°22'22"E	21.98'
PL4	N76°01'14"W	48.40'
PL5	S77°47'43"W	128.35'
PL7	N73°05'13"E	27.43'
PL8	N77°47'43"E	124.71'
PL9	S76°01'14"E	66.18'
PL14	S76°01'14"E	25.27'

Public And Private Drainage & Utility Easement Line Table		
LINE	BEARING	LENGTH
D2	N57°33'07"E	103.67'
D3	S67°14'19"E	24.35'
D4	S57°33'07"W	111.79'
D6	N57°33'07"E	137.05'
D7	N72°31'13"E	45.90'
D8	N77°37'38"E	21.10'
D9	S12°22'22"E	21.98'
D10	S25°48'11"W	103.81'
D11	N76°01'14"W	48.40'
D17	S76°01'14"E	232.22'
D19	S11°44'00"W	45.53'

Public And Private Drainage & Utility Easement Line Table		
LINE	BEARING	LENGTH
D22	N76°01'14"W	252.94'
D23	N14°23'38"E	2.00'
D24	N77°37'38"E	8.69'
D25	N51°34'47"E	20.97'
D26	S77°18'36"E	252.01'
D27	S10°23'25"W	92.37'
D31	N10°23'25"E	72.48'
D32	N77°18'36"W	253.83'
D33	N20°48'55"W	14.45'
D34	N69°11'05"E	10.00'
D35	S20°48'55"E	15.13'
D36	N44°29'22"W	22.87'
D37	N43°02'43"E	10.01'
D38	S44°29'22"E	26.23'
D39	S72°31'13"W	3.03'
D40	S57°33'07"W	7.46'

24' Private Use-In-Common Access Easement Line Table		
LINE	BEARING	LENGTH
UIC1	N73°05'13"E	27.92'
UIC2	N77°47'43"E	114.39'
UIC3	S76°01'14"E	89.70'
UIC4	S13°58'46"W	24.00'
UIC5	N76°01'14"W	84.11'
UIC6	S77°47'43"W	107.82'
UIC7	S73°05'13"W	26.93'
UIC8	N13°58'46"E	24.00'
UIC9	S76°01'14"E	208.08'
UIC10	S13°58'46"W	24.00'
UIC11	N76°01'14"W	208.08'



#1032 THUNDERBIRD DRIVE
B.R.L. = BUILDING RESTRICTION LINE
TOP OF FOUNDATION ELEVATION = 598.0'±

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE

STATE OF MARYLAND
MARK L. ROSE
PROPERTY LINE SURVEYOR
REG. #339
4/17/19

HOUSE LOCATION DRAWING

FOUNDATION LOCATION: 4/15/19
FINAL LOCATION:
BOUNDARY SURVEY:

SCALE: 1"=50'
DATE: 4/17/19
DRAWN BY: JIMP
CHECKED BY: MLE
PROJECT No.: 05106-3003

LOT 38
FAIRLANE FARM
PHASE TWO
RESUBDIVISION PLAT-LOTS 19 THRU 44 AND
& REVISION PLAT-BUILDABLE PRESERVATION PARCELS 'I' THRU 'N',
& REVISION PLAT-BUILDABLE PRESERVATION PARCEL 'A'
PLAT NOS. 24367 THRU 24372
FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

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- 7) BUILDING PERMIT #B-19000565

Legend

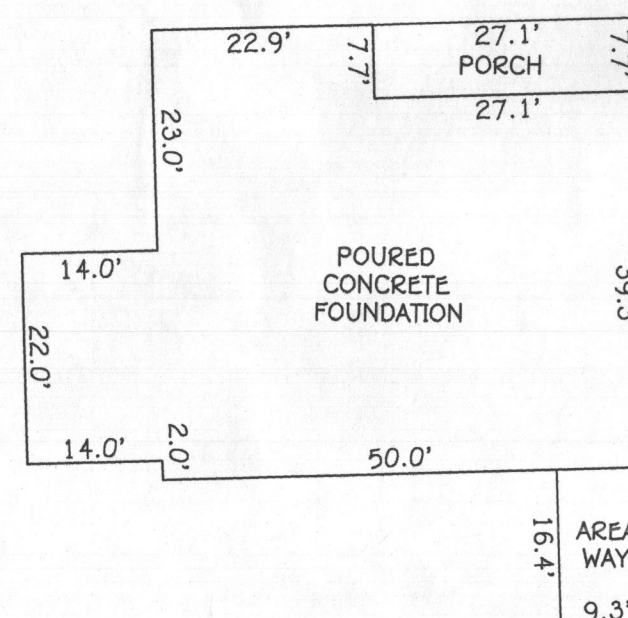
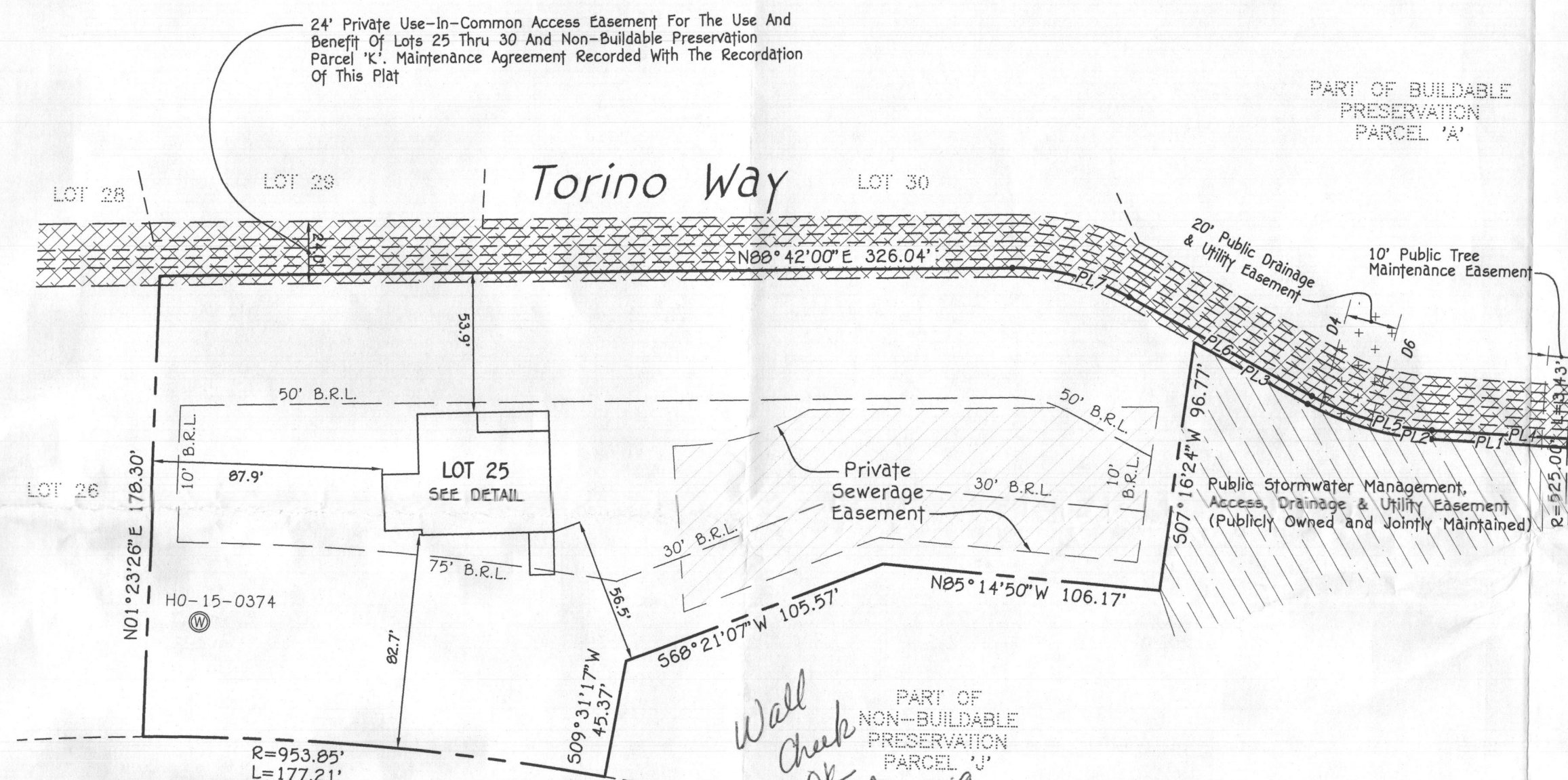
- Public Stormwater Management, Access, Drainage & Utility Easement
- 10' Public Tree Maintenance Easement
- Public Drainage & Utility Easement

Public And Private Drainage & Utility Easement Line Table

LINE	BEARING	LENGTH
D4	N14°40'57"E	96.43'
D5	S75°19'03"E	20.00'
D6	S14°40'57"W	98.31'

Property Line Metes And Bounds Line Table

LINE	BEARING	LENGTH
PL1	N07°24'40"W	52.72'
PL2	R=112.00'	L=49.39'
PL3	N62°08'43"W	49.30'
PL4	N07°24'40"W	52.65'
PL5	R=108.57'	L=47.88'
PL6	N62°08'43"W	79.50'
PL7	R=91.42'	L=46.53'



DETAIL:
1"=20'

#15205 TORINO WAY
B.R.L. = BUILDING RESTRICTION LINE
TOP OF FOUNDATION ELEVATION = 617.5'

HOUSE LOCATION DRAWING

FOUNDATION LOCATION: 4/16/19
FINAL LOCATION:
BOUNDARY SURVEY:

SCALE: 1"=50'
DATE: 4/17/19
DRAWN BY: JMP
CHECKED BY: MLR
PROJECT No.: 05106-3003

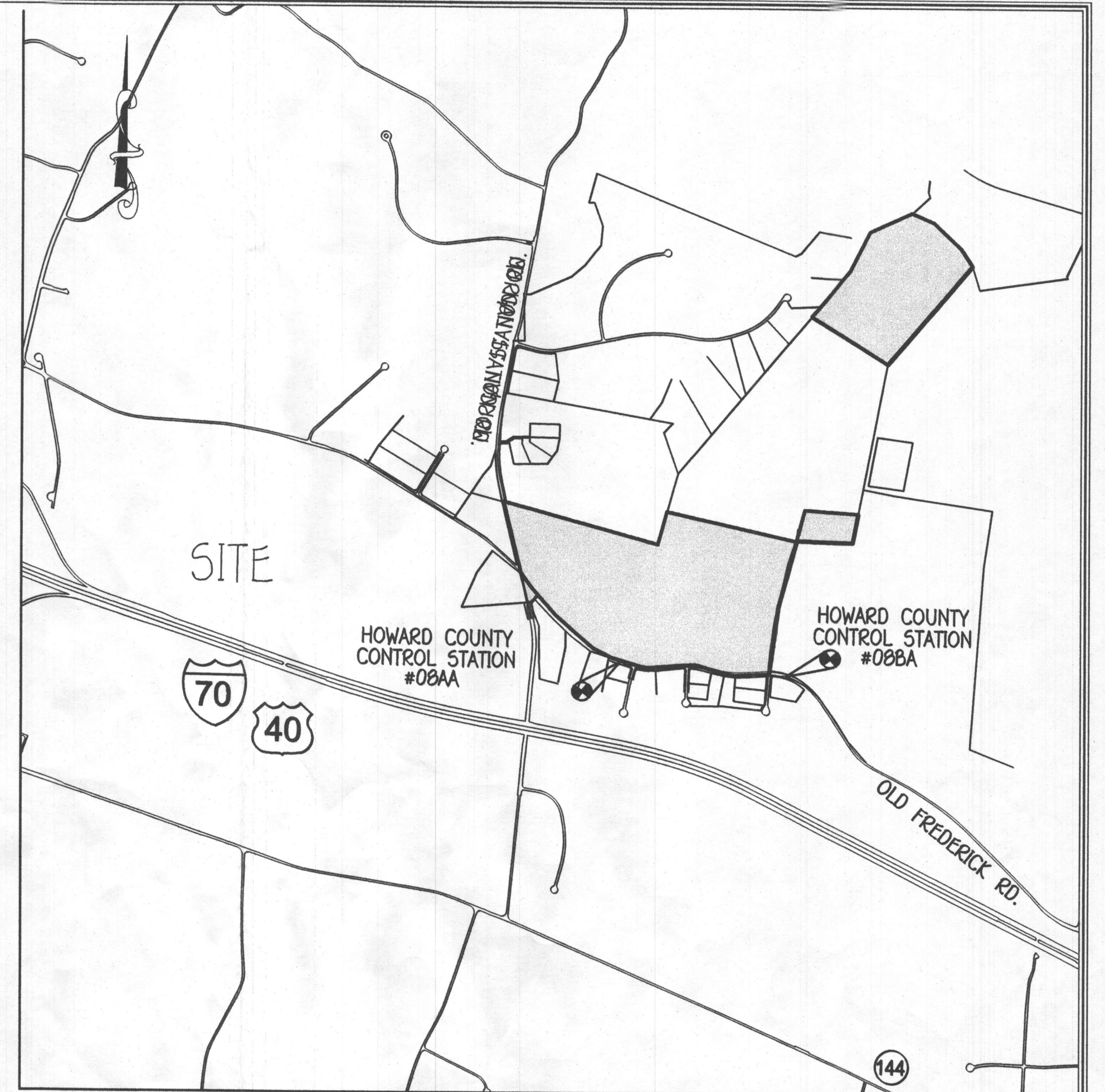
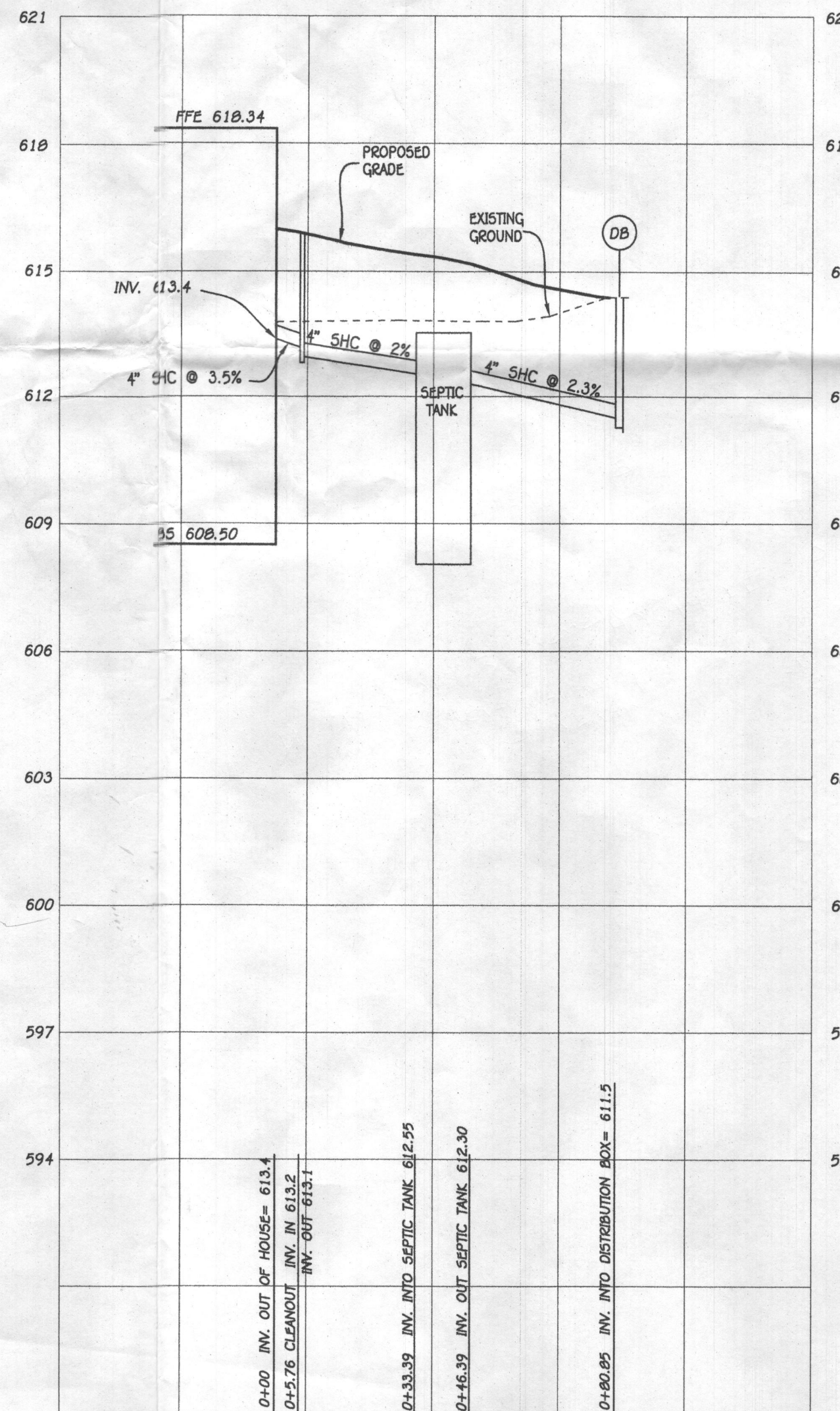
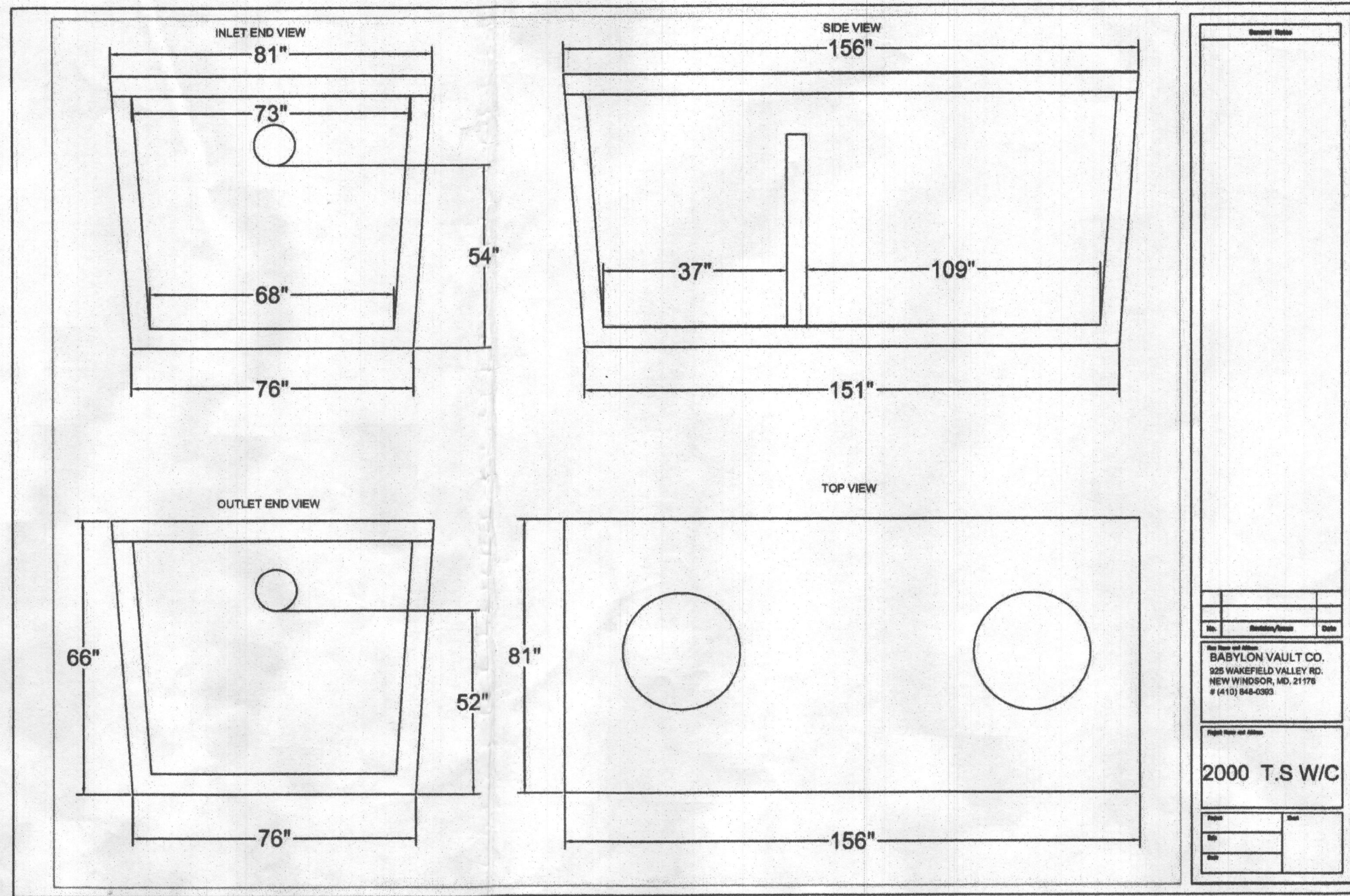
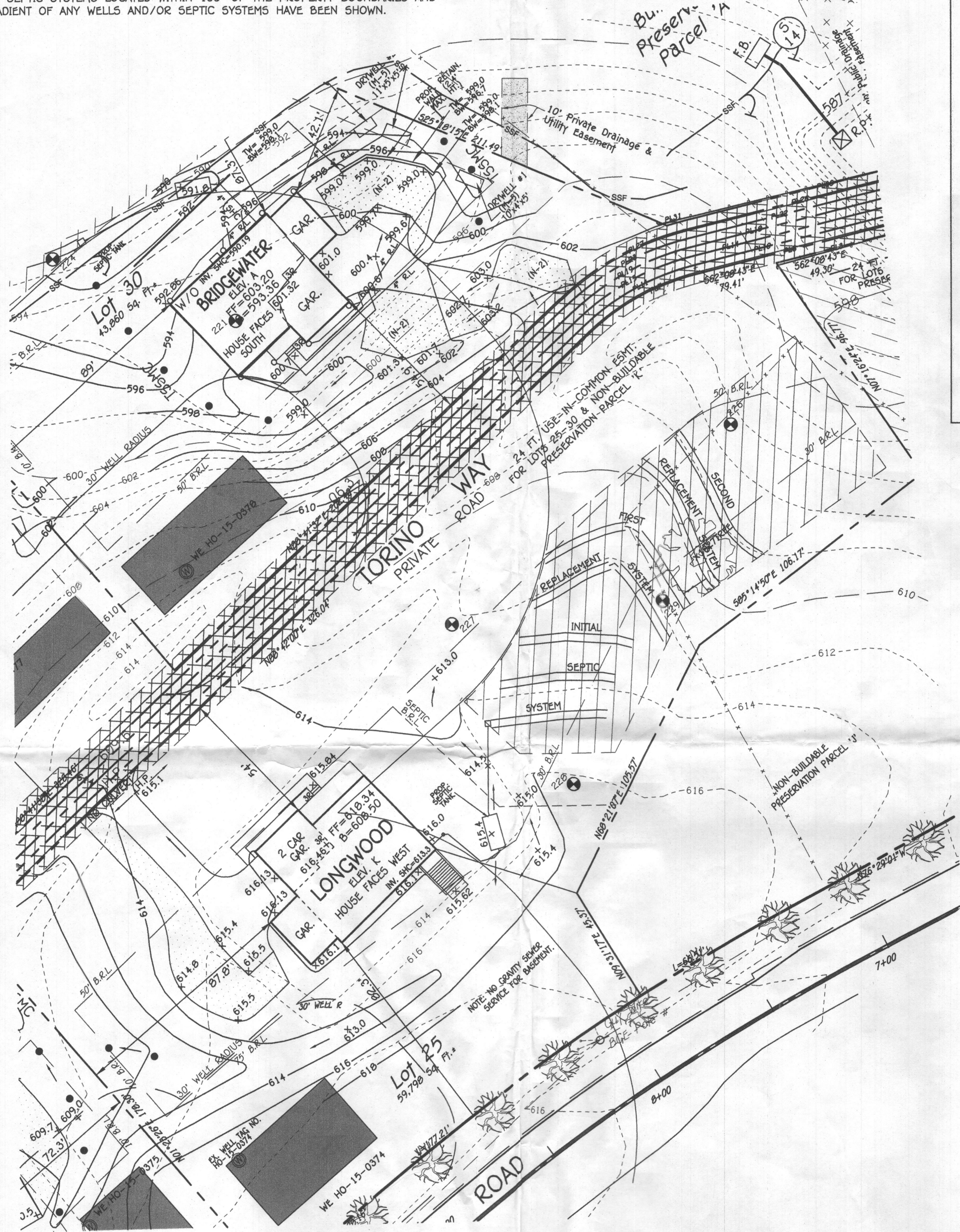
Mark L. Robb
PROPERTY LINE SURVEYOR
REG. #339

4/17/19

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE

LOT 25
FAIRLANE FARM
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RESUBDIVISION PLAT-LOTS 19 THRU 44 AND
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& REVISION PLAT-BUILDABLE PRESERVATION PARCEL 'A'
PLAT NOS. 24367 THRU 24372
FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

1. 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.
2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
4. THE WELL HO-15-0374 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
5. 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.



FFE 610.34
BSE 608.50
INV. OUT OF HOUSE = 613.4
PROP. GROUND AT CLEANOUT #1 = 616.00
INV. INTO CLEANOUT = 613.10
INV. OUT OF CLEANOUT = 613.10
EX. GROUND AT SEPTIC TANK = 615.4
PROP. GRADE ABOVE SEPTIC TANK = 615.4
TOP OF SEPTIC TANK = 613.55
INV. INTO SEPTIC TANK = 612.55
INV. OUT OF SEPTIC TANK = 612.30
EX. GROUND AT DISTRIBUTION BOX = 614.4
INV. INTO DISTRIBUTION BOX = 611.5
INV. OUT OF DISTRIBUTION BOX = 611.4

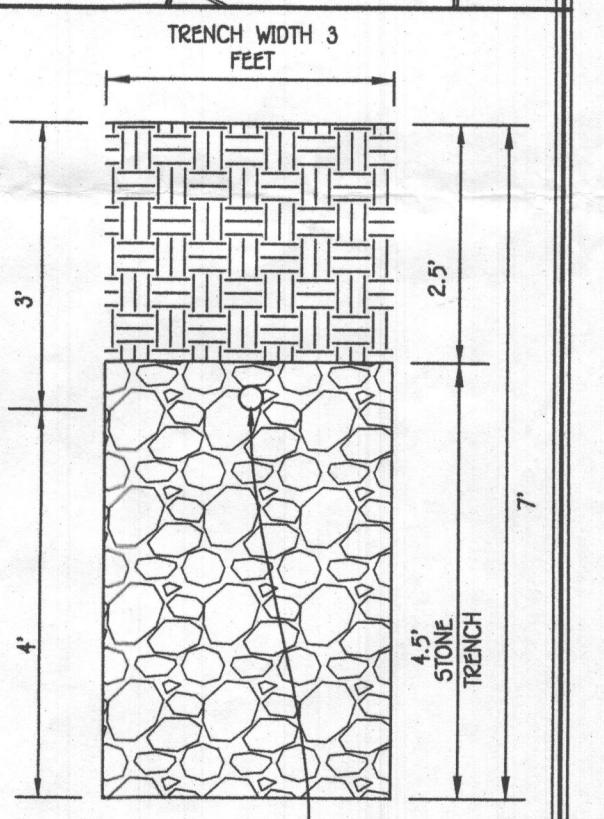
Approved Septic System Plan
Howard County Health Department
Mark Osuna 3/28/19
Signature Date

VICINITY MAP

SCALE: 1" = 1200'

TRENCH DATA:

TRENCH 1:
EX. GROUND ABOVE = 614.4
INV. IN = 611.4
BOTTOM TRENCH = 607.4
TRENCH 2:
EX. GROUND ABOVE = 613.7
INV. IN = 610.7
BOTTOM TRENCH = 606.7
TRENCH 3:
EX. GROUND ABOVE = 613.1
INV. IN = 610.1
BOTTOM TRENCH = 606.1



INITIAL TRENCH DETAIL

SCALE: 1" = 2'

INITIAL SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 3 FEET
TRENCH DEPTH = 7 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4 FEET
SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x4)) = .417
TRENCH LENGTH = 312.5 SF x 0.417 = 130.31 FEET
(USE 3 TRENCHES AT 43.44 LF.)
TRENCH SPACING = 2D+W = ((2x4) + 3) = 11' USE 11'

1ST REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 3 FEET
TRENCH DEPTH = 7 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4 FEET
SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x4)) = .417
TRENCH LENGTH = 312.5 SF x 0.417 = 130.31 FEET
(USE 4 TRENCHES AT 32.6 LF.)
TRENCH SPACING = 2D+W = ((2x4) + 3) = 11' USE 11'

2ND REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 3 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 5 FEET
SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x5)) = .357
TRENCH LENGTH = 312.5 SF x 0.357 = 111.56 FEET
(USE 2 TRENCHES AT 55.78 LF.)
TRENCH SPACING = 2D+W = ((2x5) + 3) = 13' USE 13'

SEPTIC SYSTEM INSTALLATION SITE PLAN

LOT 25

15205 TORINO WAY

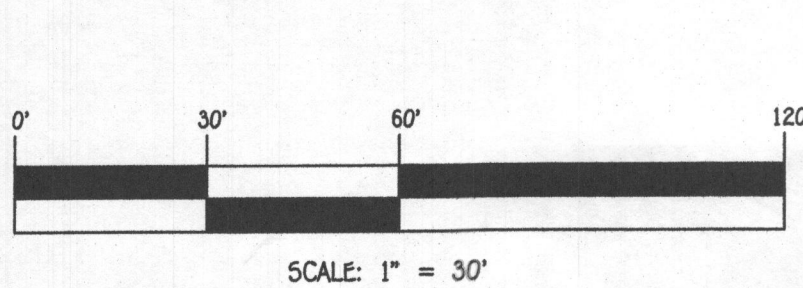
FAIRLANE FARMS

PHASE TWO

ZONED: RC-DEO

TAX MAP NO.: 8 GRID NO.: 2 PARCEL NO.: 8
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: MARCH 26, 2019

SHEET 1 OF 1



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21046
(410) 461-2895

OWNER/DEVELOPER
BY HOMES
9720 PATUXENT WOODS DRIVE
COLUMBIA, MD 21046
410-379-9996



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. 20740, EXPIRATION DATE: 02/22/2021.

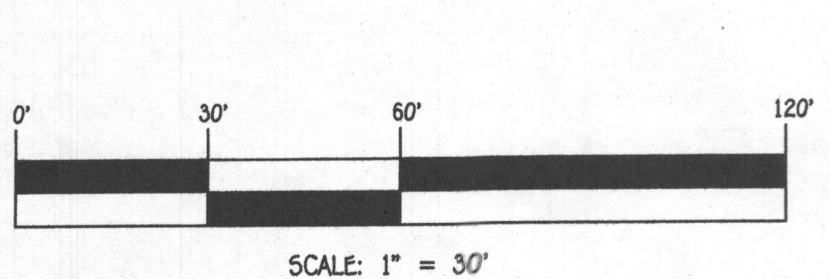
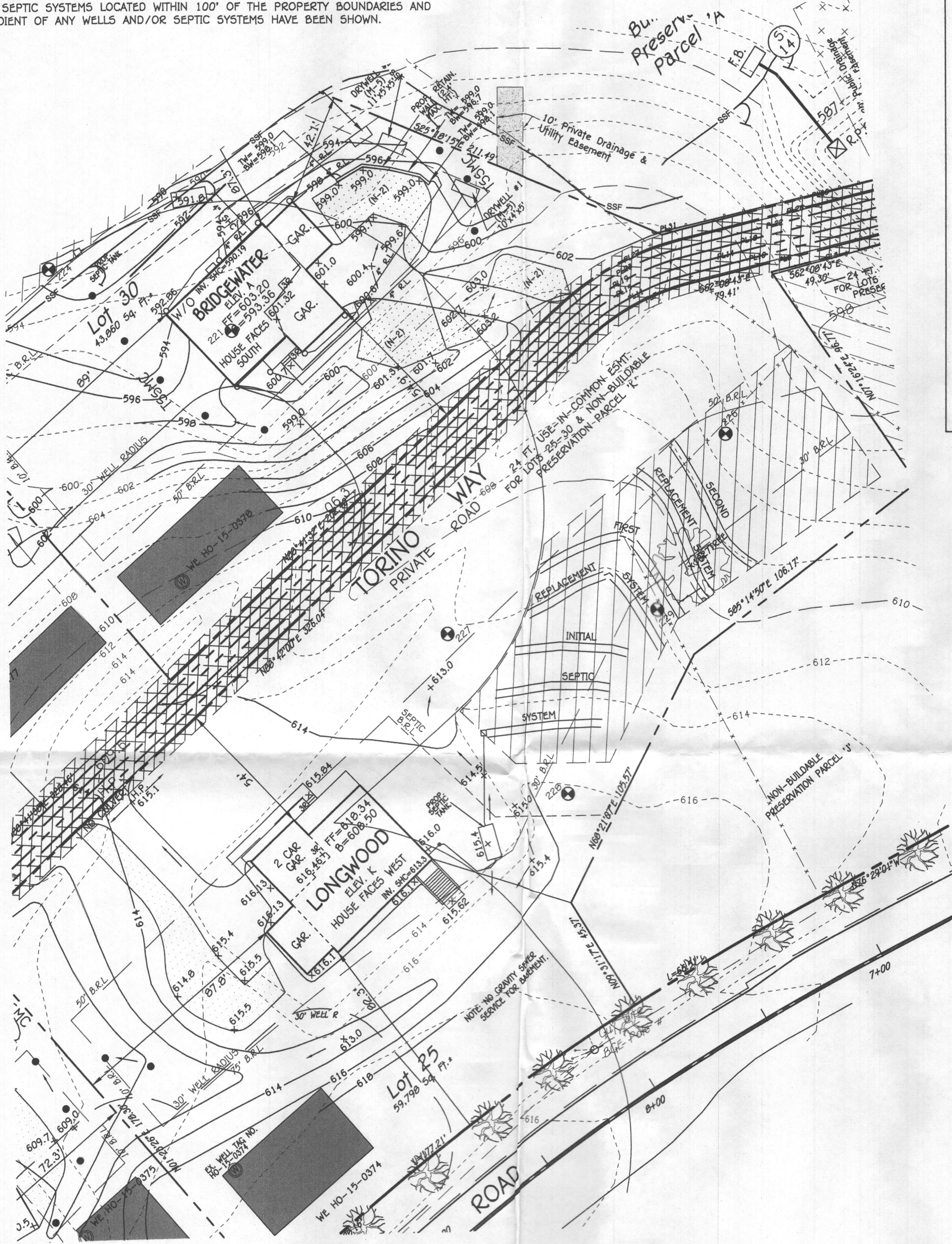
Signature of Professional Engineer

3/28/19
DATE

SEPTIC PROFILE

SCALE: 1" = 30'

1. 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.
2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
4. THE WELL HO-15-0374 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
5. 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.



PLAN
SCALE: 1" = 30'

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10072 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461 - 2895

OWNER/DEVELOPER
NY HOMES
9720 PATRICK WOODS DRIVE
COLUMBIA, MD 21046
410-379-9956

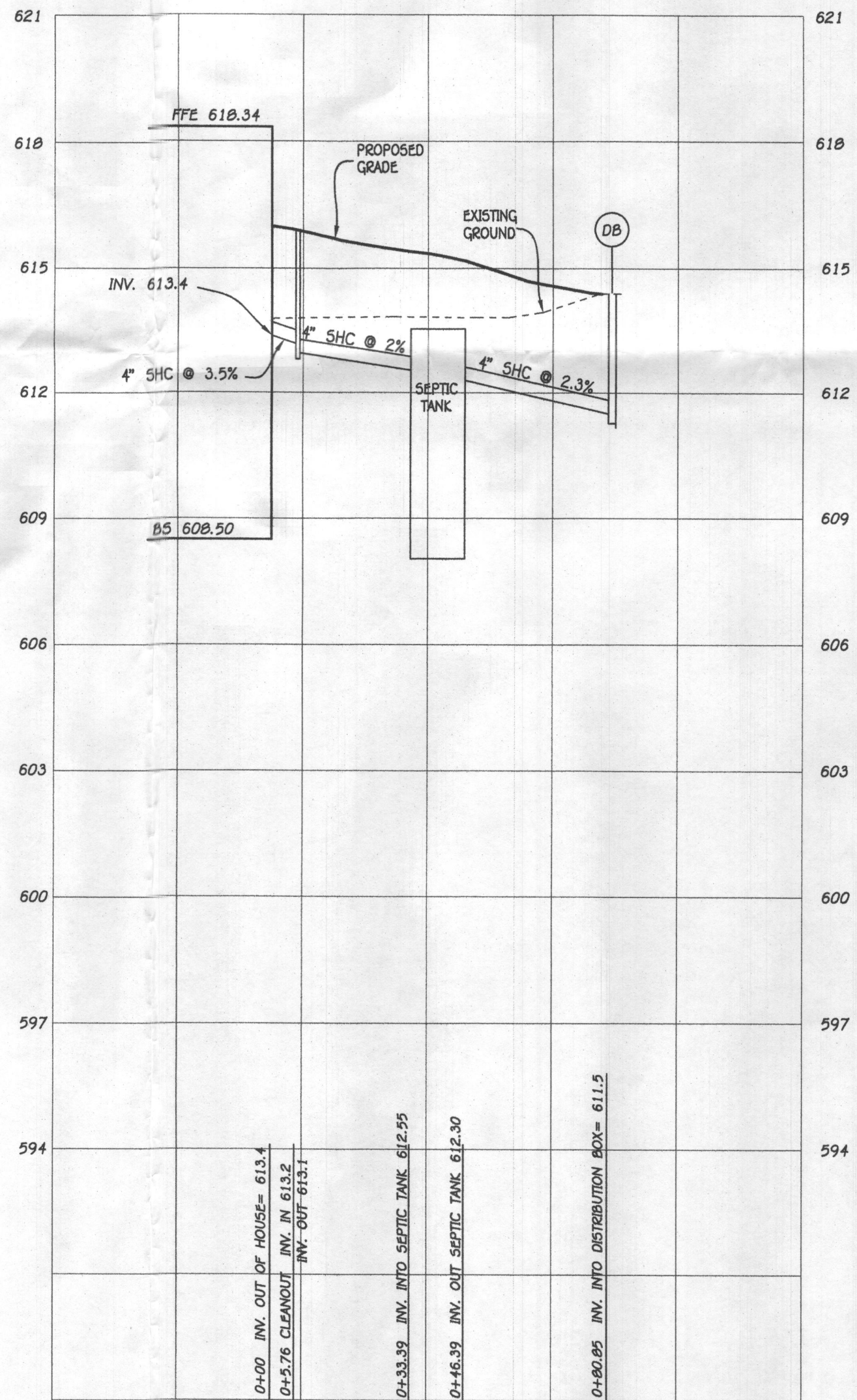
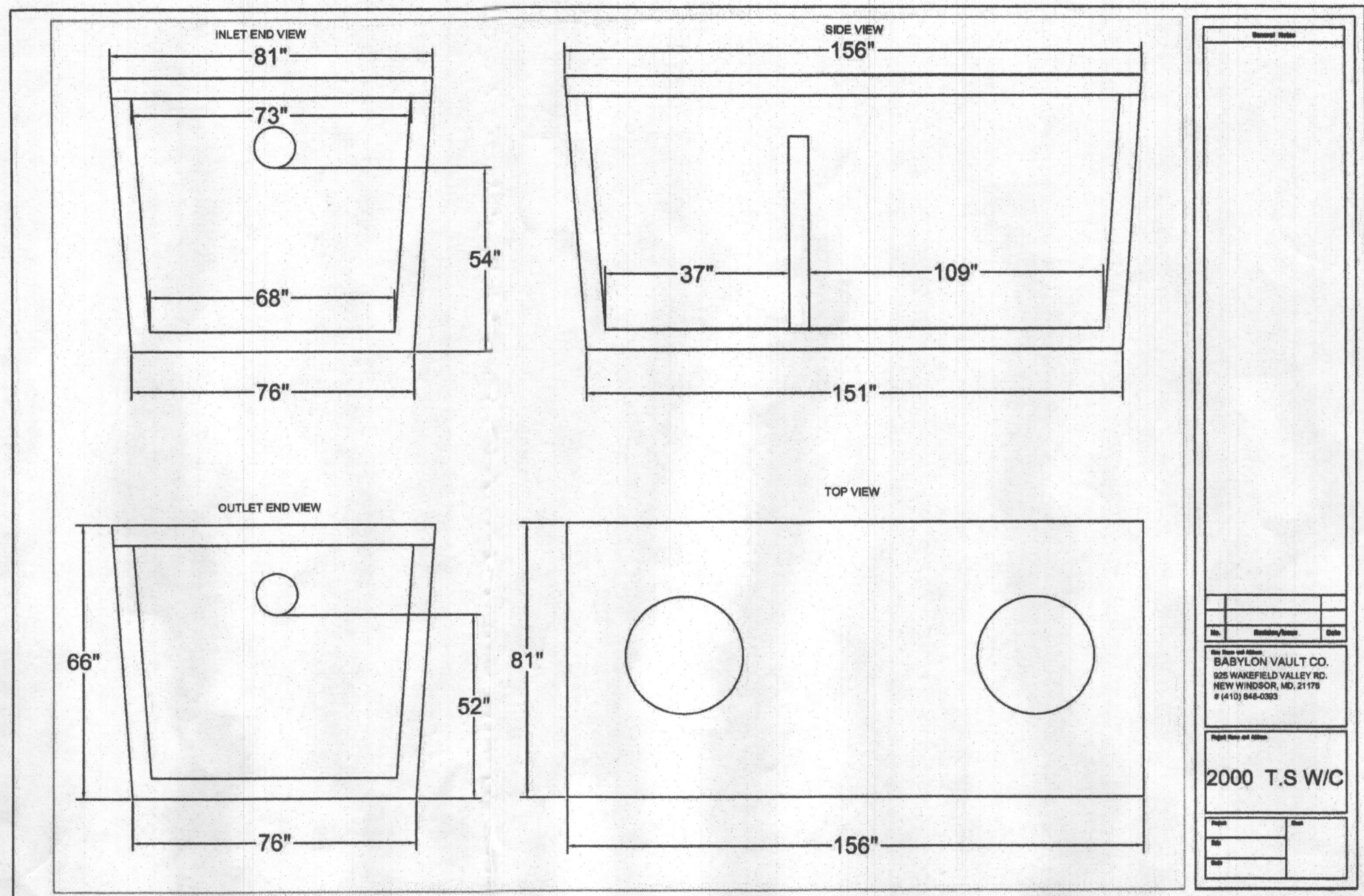


PROFESSIONAL CERTIFICATION

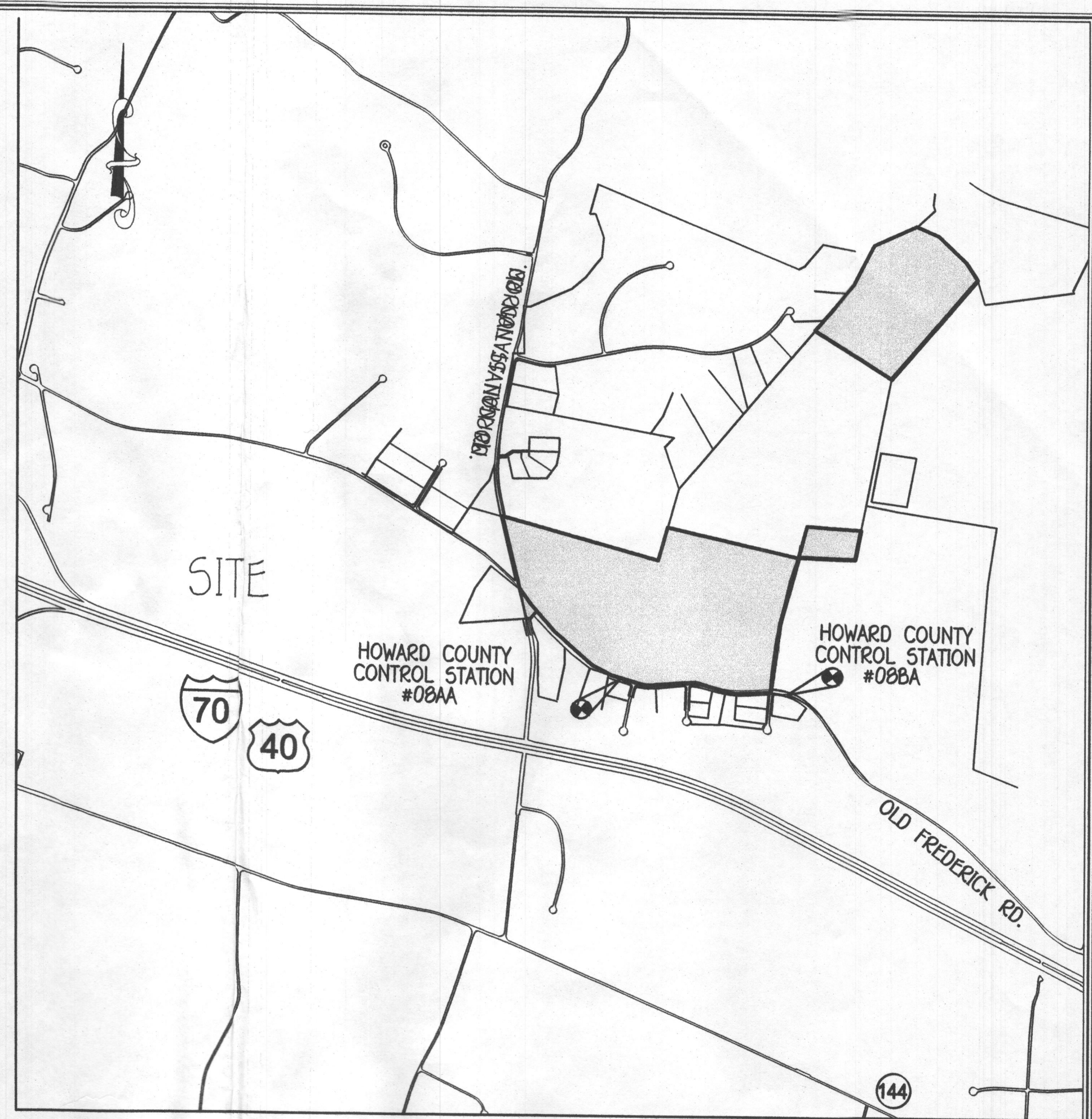
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20748, EXPIRATION DATE: 02/22/2021.

Signature of Professional Engineer
Signature of Professional Engineer

3/26/19
DATE



SEPTIC PROFILE
SCALE: 1" = 30'

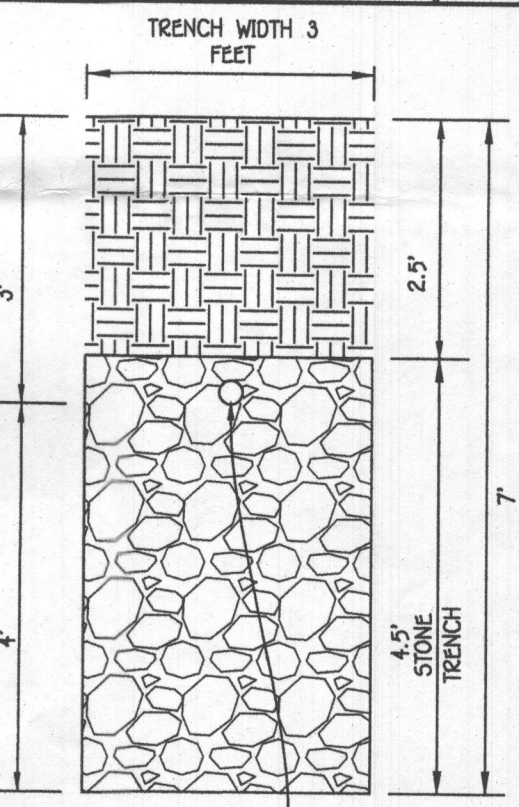


VICINITY MAP
SCALE: 1" = 1200'

FFE 610.34
BSE 608.50
INV. OUT OF HOUSE = 613.4
PROP. GROUND AT CLEANOUT #1 = 616.00
INV. INTO CLEANOUT = 613.2
INV. OUT OF CLEANOUT = 613.10
EX. GROUND AT SEPTIC TANK = 615.4
PROP. GRADE ABOVE SEPTIC TANK = 615.4
TOP OF SEPTIC TANK = 613.55
INV. INTO SEPTIC TANK = 612.55
INV. OUT OF SEPTIC TANK = 612.30
EX. GROUND AT DISTRIBUTION BOX = 614.4
INV. INTO DISTRIBUTION BOX = 611.5
INV. OUT OF DISTRIBUTION BOX = 611.4

Approved Septic System Plan
Howard County Health Department
Signature 3/28/19
Date

TRENCH DATA:
TRENCH 1:
EX. GROUND ABOVE = 614.4
INV. IN = 611.4
BOTTOM TRENCH = 607.4
TRENCH 2:
EX. GROUND ABOVE = 613.7
INV. IN = 610.7
BOTTOM TRENCH = 606.7
TRENCH 3:
EX. GROUND ABOVE = 613.1
INV. IN = 610.1
BOTTOM TRENCH = 606.1



INITIAL TRENCH DETAIL
SCALE: 1" = 2'

INITIAL SYSTEM
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 3 FEET
TRENCH DEPTH = 7 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4 FEET
SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2*4)) = .417
TRENCH LENGTH = 312.5 SF x 0.417 = 130.31 FEET
(USE 3 TRENCHES AT 43.44 LF.)
TRENCH SPACING = 20+W = (2*4) + 3 = 11' USE 11'

1ST REPLACEMENT SYSTEM
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 3 FEET
TRENCH DEPTH = 7 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4 FEET
SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2*4)) = .417
TRENCH LENGTH = 312.5 SF x 0.417 = 130.31 FEET
(USE 4 TRENCHES AT 32.6 LF.)
TRENCH SPACING = 20+W = (2*4) + 3 = 11' USE 11'

2ND REPLACEMENT SYSTEM
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 3 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 5 FEET
SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2*5)) = .357
TRENCH LENGTH = 312.5 SF x 0.357 = 111.56 FEET
(USE 2 TRENCHES AT 55.78 LF.)
TRENCH SPACING = 20+W = ((2*5) + 3) = 13' USE 13'

SEPTIC SYSTEM
INSTALLATION SITE PLAN

LOT 25
15205 TORINO WAY
FAIRLANE FARMS

PHASE TWO

ZONED: RC-DEO
TAX MAP NO.: 8 GRID NO.: 2 PARCEL NO.: 8
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: MARCH 26, 2019
SHEET 1 OF 1

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
25	15205 TORINO WAY