



**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: 8/8/17

ONSITE SEWAGE DISPOSAL SYSTEM

P 561486

APPROVAL DATE: 8/22/17

PERMIT: CONSTRUCTION

A _____

PROPERTY ADDRESS: 1005 Fairlane Road

SUBDIVISION: Fairlane Farms

LOT: 1

TAX ID:

04-599994

CONTRACTOR: South Carroll Backhoe

EMAIL: _____

CONTRACTOR ADDRESS: 4401 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

PUMP MODEL: N/A

PUMP SIZE

N/A

PUMP TANK CAPACITY:

N/A

DISTRIBUTION SYSTEM: GRAVITY

PRESSURE DOSED

BEDROOMS: 6

APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>125</u>	INLET DEPTH: <u>3.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>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: Robert Freemon

ISSUE DATE: 8/8/17

EXPIRATION DATE: 8/8/18

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

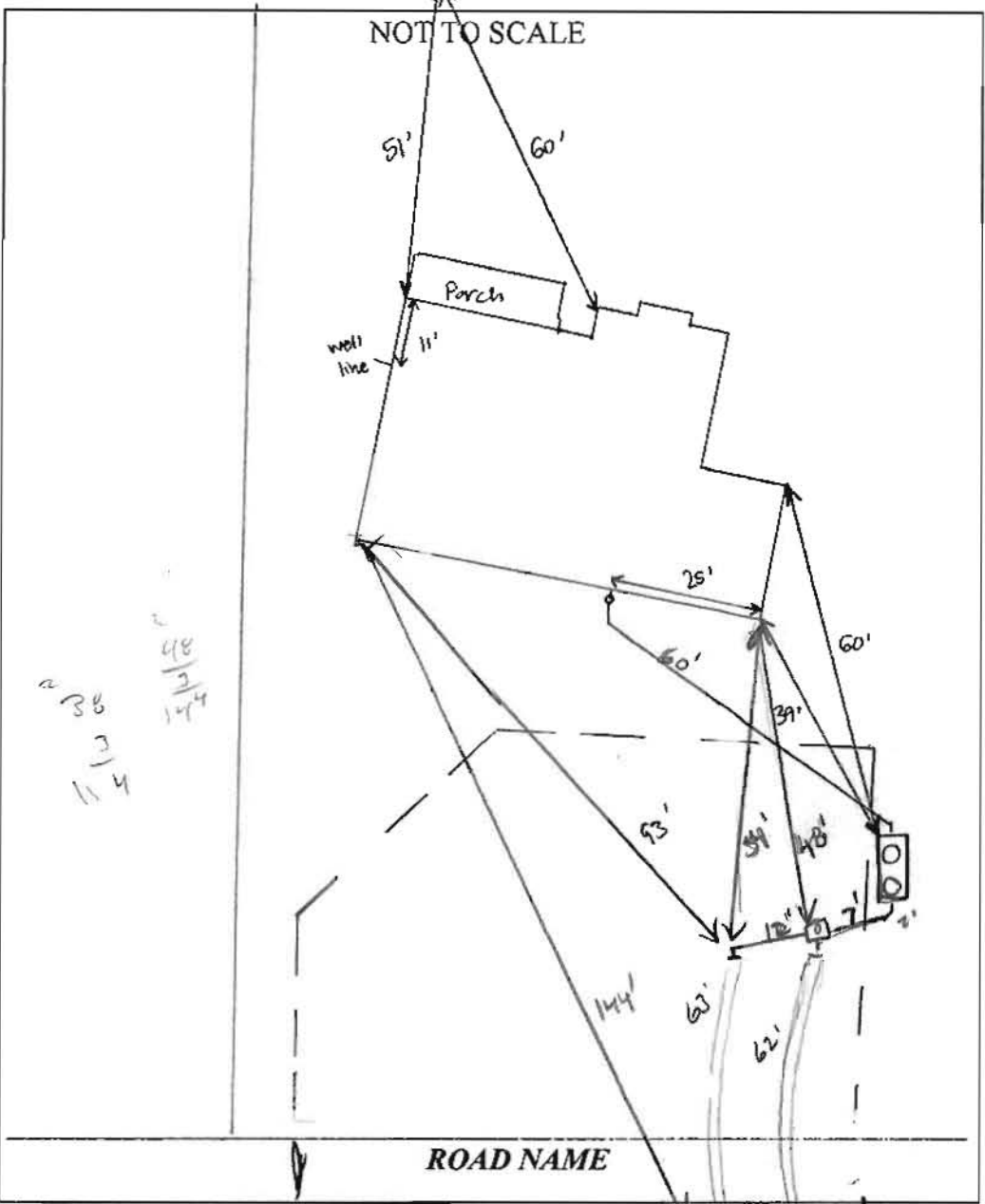
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

W H0-15-0213

NOT TO SCALE



2
38
11/3
4
48
2
174

TRENCH/DRAINFIELD DATA		
WIDTH	INLET,	BOTTOM
3	3.5	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		125
ABSORPTION AREA _____		
DISTRIBUTION BOX LEVEL <u>level</u>		
DISTRIBUTION BOX BAFFLE <u>yes</u>		
DISTRIBUTION BOX PORT <u>yes</u>		

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	<u>YES</u>
MANUFACTURER	<u>BABYLON</u>
CAPACITY	<u>2000</u> GAL
SEAM LOC	<u>TOP</u>
TANK LID DEPTH	<u>1-2'</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>
DATE ON LID	_____
PUMP/SEPTIC TANK LEVEL	
MANUFACTURER _____	
CAPACITY _____ GAL	
SEAM LOC _____	
TANK LID DEPTH _____	
BAFFLES _____	
BAFFLE FILTER _____	
MANHOLE LOC _____	
6" PORT LOC _____	
WATERTIGHT TEST _____	
SLOTTED _____	
DATE ON LID _____	

PRE-CONSTRUCTION:

8/21/17 Met S. Carroll on site for layout. SDA stakes present except for ones closest to house - pulled dimensions off house from wall check. Shot contour + laid out 2 x 63' trenches. S. Carroll to set tank just outside SDA corner as shown on septic plan. (SC)

INSTALLATION:

8/21/17 House connection made. On site while tank was set - no obvious cracks on sides or bottom. (SC) 8/22/17 System complete, OK to cover all work.

FINAL INSPECTOR

J. Nay

DATE OF APPROVAL

8/22/17



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Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

May 9, 2017

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

Sent via email to: amv@fcc-eng.com

RE:

OSDS Plan
15301 Galaxy Drive
Woodbine, MD 21797

Hi Aldo Vitucci:

The OSDS Plan for 15301 Galaxy Drive has been reviewed with the following comments:

- 1.) Match Trench Data to Initial Trench Detail where invert depth is 4 feet.
- 2.) Loading rate should be 900 GPD for 6 BR residence (not 750)
- 3.) Show the internal wall of the 2000 gallon septic tank with a minimum 2 inch slot, located in the center of the liquid depth and extend 4 feet in length (per code).
- 4.) Existing well location doesn't appear to match well location on well completion report (Please see attachment). If the well has been field located, then add note to plan.
- 5.) If covered porch in back of house is built on footers then distance shown on plan is fine. If this happens to be a sunroom, then setback from SDA is 20 feet. Please note type of foundation on plan and adjust setback accordingly.

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

Oswald, Hank

From: Oswald, Hank
Sent: Tuesday, May 09, 2017 4:14 PM
To: amv@fcc-eng.com
Subject: OSDS Plan Comments_15301 Galaxy Drive
Attachments: OSDS_15301 Galaxy Drive_5.17.pdf; HO-15-0213.pdf

Hello Aldo Vitucci:

Attached, please find plan review comments pertaining to the OSDS Plan for 15301 Galaxy Drive. Should you have any questions, please don't hesitate to ask.

Respectfully,

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)

Oswald, Hank

From: Oswald, Hank
Sent: Wednesday, March 29, 2017 11:21 AM
To: 'DaveH@fcc-eng.com'
Cc: Williams, Jeffrey
Subject: Fairlane Farm, Lot 1_15301 Galaxy Drive.
Attachments: Fairlane Farm, Lot 1.pdf

Hi Dave:

Attached, please find the septic specs for Fairlane Farm, Lot 1 (15301 Galaxy Drive). I should have the rest of the specs (2-18) to you soon.

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

Respectfully,

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)

Transmittal

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 Oswald**
Fax:
Phone: **410-313-2640**

From: **Dave Harward**

CC:

Re: **Fairlane Farms, Lot 1**

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

Date: **May 8, 2017**

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 1, 15301 Galaxy Drive**

Provide here are **3** copies of a **Septic Installation Site Plan** for **Lot 1**, for your review. Please contact me with any questions or comments.

Thank You,

Dave Harward

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

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Transmittal

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 Oswald Fax: Phone: 410-313-2640
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From: Dave Harward	CC:
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Re: Fairlane Farms, Lot 1	W.O.# 05106-3003
Date: May 12, 2017	Pages: 0 Page(s) Including this cover

We are forwarding: <input checked="" type="checkbox"/> Prints <input type="checkbox"/> Copy of Letter <input type="checkbox"/> Specifications <input type="checkbox"/> Shop drawings <input type="checkbox"/> Other <input type="checkbox"/> Urgent <input type="checkbox"/> For your use <input type="checkbox"/> As requested <input checked="" type="checkbox"/> For Review & Comment

Remarks:

Re: Fairlane Farm, Lot 1, 15301 Galaxy Drive

Thanks for your prompt review of this plan Hank !

Provided here are 3 copies of a Septic Installation Site Plan for Lot 1, for your review & approval. Please leave a approved copy up front for us to pick up.

Thank You,

Dave Harward

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

CONFIDENTIALITY NOTICE

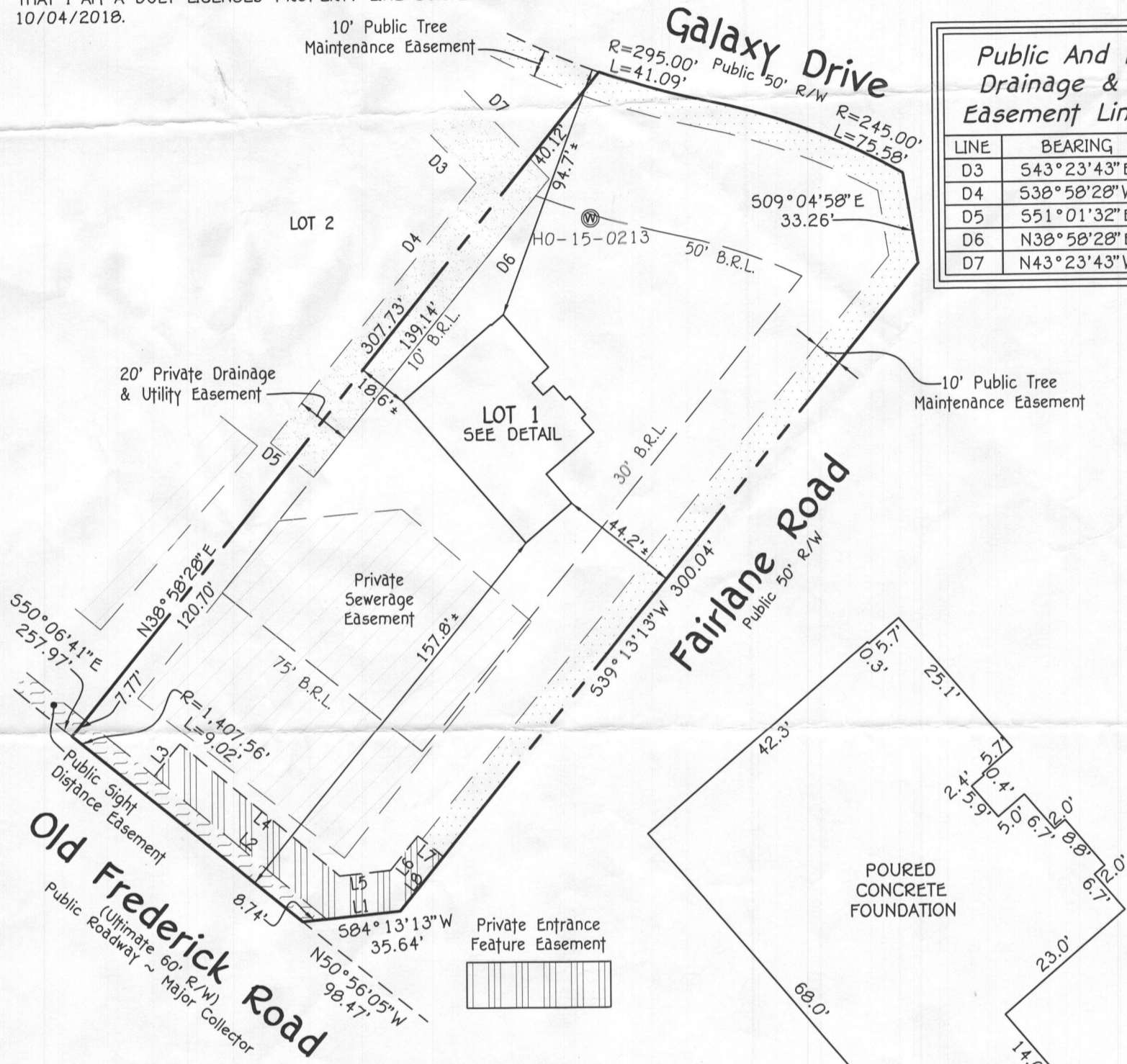
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GENERAL NOTES:

- 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. 24027C0035D 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'.
- 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-15-0213) 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 10/04/2018.

Public And Private Drainage & Utility Easement Line Table

LINE	BEARING	LENGTH
D3	S43°23'43"E	119.33'
D4	S38°58'28"W	120.29'
D5	S51°01'32"E	20.00'
D6	N38°58'28"E	137.79'
D7	N43°23'43"W	140.80'



Private Entrance Feature Easement Line Table

LINE	BEARING	LENGTH
L1	S84°13'13"W	26.90'
L2	N50°06'41"W	81.21'
L3	N39°03'55"E	15.00'
L4	S50°06'41"E	75.11'
L5	N84°13'13"E	18.61'
L6	N39°13'13"E	15.79'
L7	S50°46'47"E	12.00'
L8	S39°13'13"W	25.00'

DETAIL:
1" = 20'

LOT 1
FAIRLANE FARMS
PHASE ONE
LOTS 1 THRU 18, BUILDABLE PRESERVATION PARCEL 'A', NON-BUILDABLE PRESERVATION PARCELS 'B' THRU 'E', PARCEL 'F', NON-BUILDABLE BULK PARCELS 'G' AND 'H' AND FOREST MITIGATION BANK
PLAT NOS. 24251 THRU 24259
FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

#15301 GALAXY DRIVE
B.R.L. = BUILDING RESTRICTION LINE
TOP OF FOUNDATION ELEVATION = 612.5*

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461 - 2855

Drawing Name:



Mark L. Robel
PROPERTY LINE SURVEYOR
REG. #339
DATE: 8/03/17

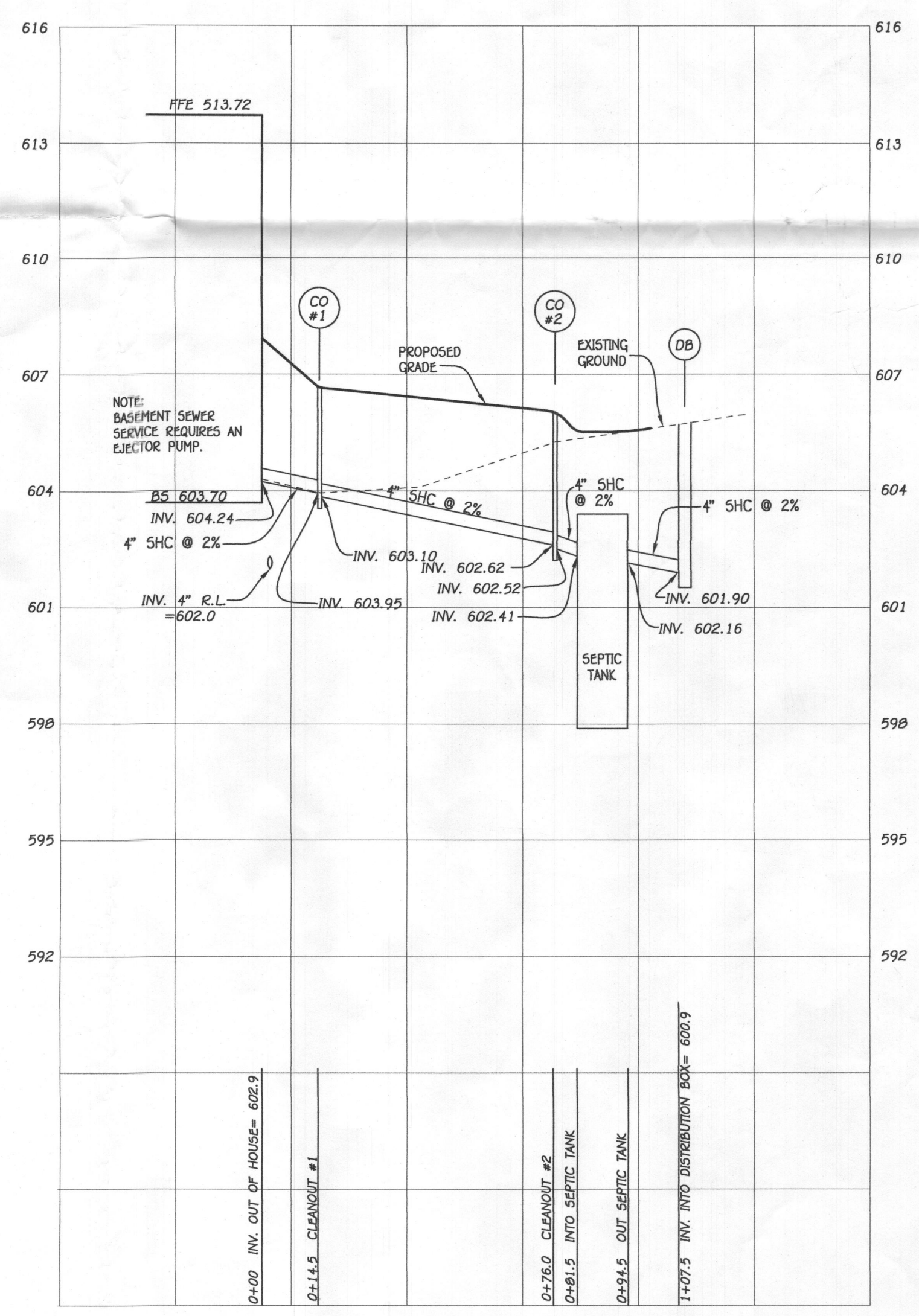
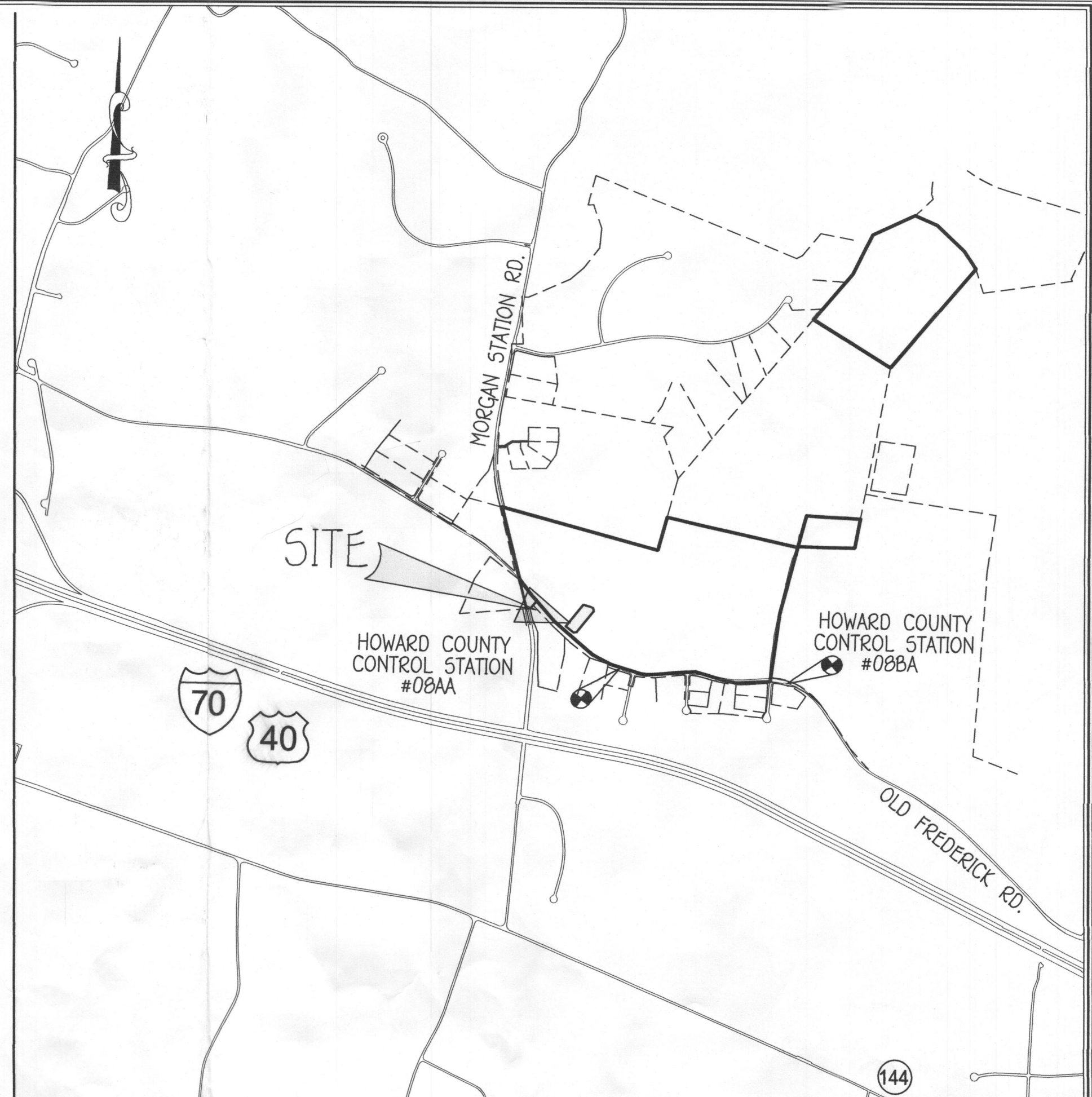
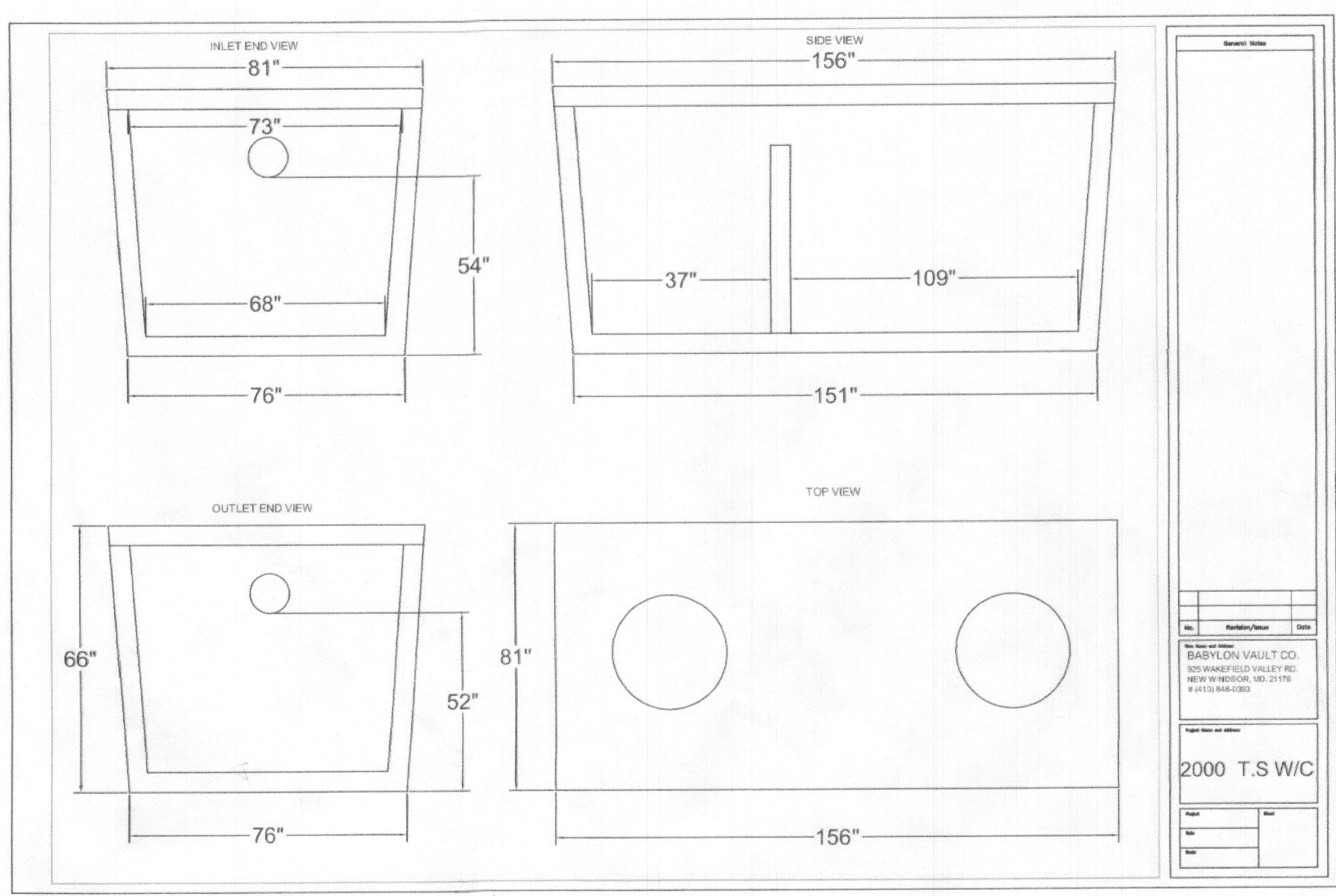
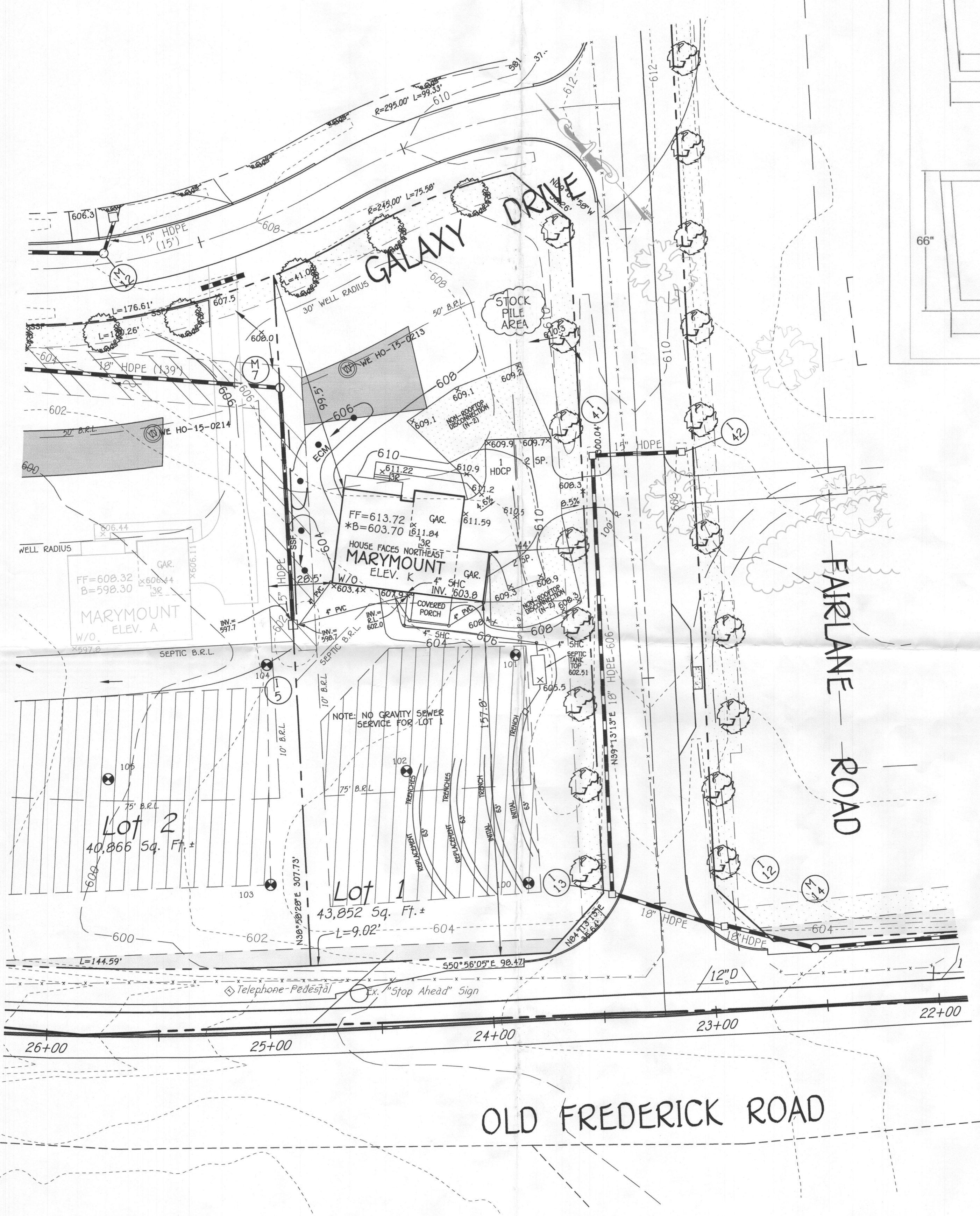
HOUSE LOCATION DRAWING

FOUNDATION LOCATION: 8/2/17
FINAL LOCATION: _____
BOUNDARY SURVEY: _____

SCALE: 1" = 50'
DATE: 8/3/17
DRAWN BY: JMP
CHECKED BY: MLR
PROJECT No.: 05106-3003

*Wall
check
OK
RAV
8/8/17*

NOTE:
THE EXISTING WELLS SHOWN ON THIS PLAN, HO-15-0213 HAS BEEN FIELD LOCATED BY FISHER, COLLINS & CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.



VICINITY MAP
SCALE: 1" = 1200'

FFE 613.72
BSE 603.70
INV. OUT OF HOUSE = 604.24
PROP. GROUND AT CLEANOUT #1 = 606.5
INV. INTO CLEANOUT #1 = 603.95
INV. OUT OF CLEANOUT #1 = 603.85
PROP. GROUND AT CLEANOUT #2 = 606.20
INV. INTO CLEANOUT #2 = 602.62
INV. OUT OF CLEANOUT #2 = 602.52
EX. GROUND AT SEPTIC TANK = 605.7
TOP OF SEPTIC TANK = 603.41
INV. INTO SEPTIC TANK = 602.41
INV. OUT OF SEPTIC TANK = 602.16
EX. GROUND AT DISTRIBUTION BOX = 605.7
INV. INTO DISTRIBUTION BOX = 601.9
INV. OUT OF DISTRIBUTION BOX = 601.7

TRENCH DATA:
TRENCH 1:
EX. GROUND ABOVE = 605.7
INV. IN = 601.7
BOTTOM TRENCH = 597.7
TRENCH 2:
EX. GROUND ABOVE = 605.1
INV. IN = 601.1
BOTTOM TRENCH = 597.1
TRENCH 2:
EX. GROUND ABOVE = 605.0
INV. IN = 601.0
BOTTOM TRENCH = 597.0
TRENCH 2:
EX. GROUND ABOVE = 604.4
INV. IN = 600.4
BOTTOM TRENCH = 596.4

SEWAGE DISPOSAL SYSTEM DATA
6 BEDROOMS
LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
APPLICATION RATE = 1.2
EFFECTIVE SIDEWALL BEGINS AT 5 FEET
TRENCH DEPTH = 0 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 3 FEET
SF OF DRAINFIELD = 900 GPD / 1.2 = 750 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+1)/(3+1+(2x3)) = 0.500$
TRENCH LENGTH = 254 SF x 0.500 / 3 = 125 FEET
TRENCH SPACING = 20+W = ((2x3) + 3) = 9 USE 10'

INITIAL TRENCH DETAIL
SCALE: 1" = 2'

ADDRESS CHART

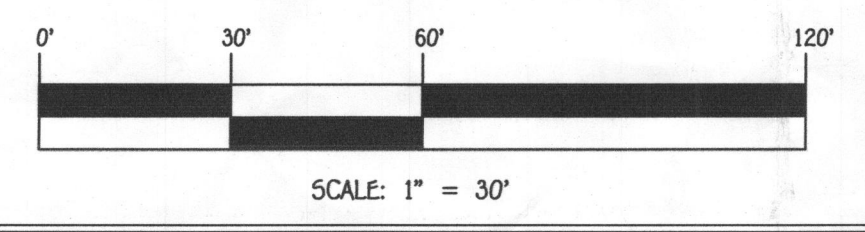
LOT NUMBER	STREET ADDRESS
1	15301 GALAXY DRIVE

PLAN
SCALE: 1" = 30'

NOTE: NO GRAVITY SEWER SERVICE FOR LOT 1

SEPTIC PROFILE
SCALE: 1" = 30'

COVERED ROOF PORCH TO BE CONSTRUCTED ON FOOTERS



SCALE: 1" = 30'



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. 20746, EXPIRATION DATE: 02/22/2015.

Adam M. Vitoreo
Signature of Professional Engineer

5/17/17
DATE

Approved Septic System Plan
Howard County Health Department

Home O'Connell
Signature

5/22/17
Date

SEPTIC SYSTEM
INSTALLATION SITE PLAN
LOT 1
15301 GALAXY DRIVE
FAIRLANE FARMS
PHASE ONE

OWNER/DEVELOPER
BY HOMES
9720 PALMIST WOODS DRIVE
COLUMBIA, MD 21046
410-379-5956

TAX MAP NO.: 8 GRID NO.: 2 PARCEL NO.: 8
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: MAY 17, 2017
SHEET 1 OF 1

132005105106.dwg/Phase 1 Septic Plan Lot 1.dwg 5/17/2017 8:07:34 AM, LI