



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: 4/5/18 **ONSITE SEWAGE DISPOSAL SYSTEM** P 562950

APPROVAL DATE: 5/10/18 SEC **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 15305 Galaxy Drive

SUBDIVISION: Fairlane Farm LOT: 2 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: Babylong

PUMP MODEL: N/A PUMP SIZE N/A PUMP TANK CAPACITY: N/A

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>148</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>6.5' 5.5'</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: Hank Oswald ISSUE DATE: 4/5/18 EXPIRATION DATE: 4/5/19

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 _____

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

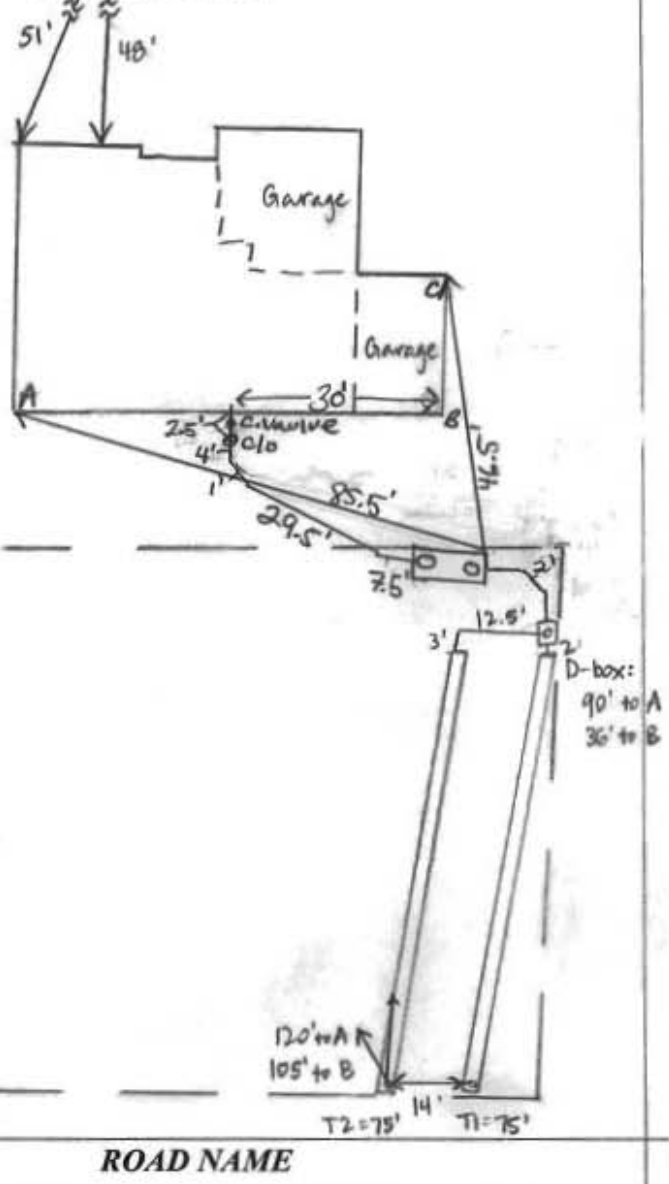
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

W HO-15-0214

NOT TO SCALE



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	4-4.5'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		150'
ABSORPTION AREA		450' + SIDEWALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA

SEPTIC TANK I LEVEL	DAL
MANUFACTURER	Babylon
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	1.5' (1-2')
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT/BACK
6" PORT LOC	NONE
WATERTIGHT TEST	N/A
SLOTTED	YES
DATE ON LID	4/2/2018

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:

5/4/18 Met S. Carroll on site for layout. SDA corners + tank staked. Shot contour and trenches do not have as much bend as shown on the plan. Turn tank to fit in trenches at upper part of SDA. S. Carroll to install a check valve before clo at house per request of homeowner. (SC)

INSTALLATION:

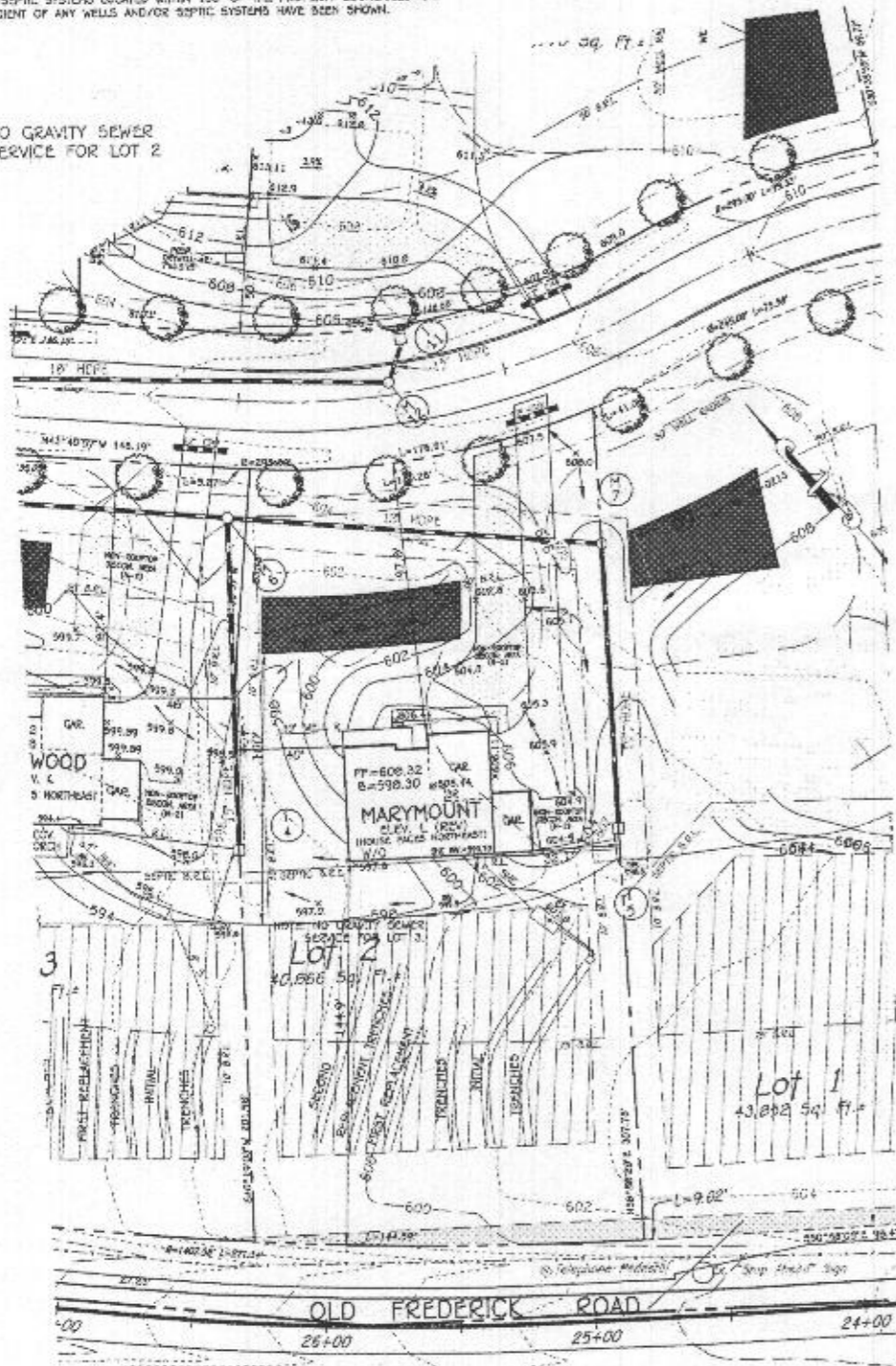
5/9/2018 SHC, influent line, septic tank, and D box installed. All SCH 40 PVC joints are solvent welded. (P)

5/10/18 Trenches complete. T2 left open for inspection + T1 left open @ ends. 3' wide, 3.5-4' to stone. Levelled speed levelers @ D-box. Check valve installed before first clo. (SC)

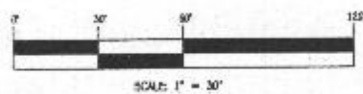
FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 5/10/18

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 NO. 15-0214 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.

NOTE: NO GRAVITY SEWER SERVICE FOR LOT 2



PLAN
SCALE: 1" = 30'



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING, ARCHITECTURE & LAND PLANNING
1100 EAST BROADWAY, SUITE 200, ANNE ARDUR, MD 21014
410-779-9996

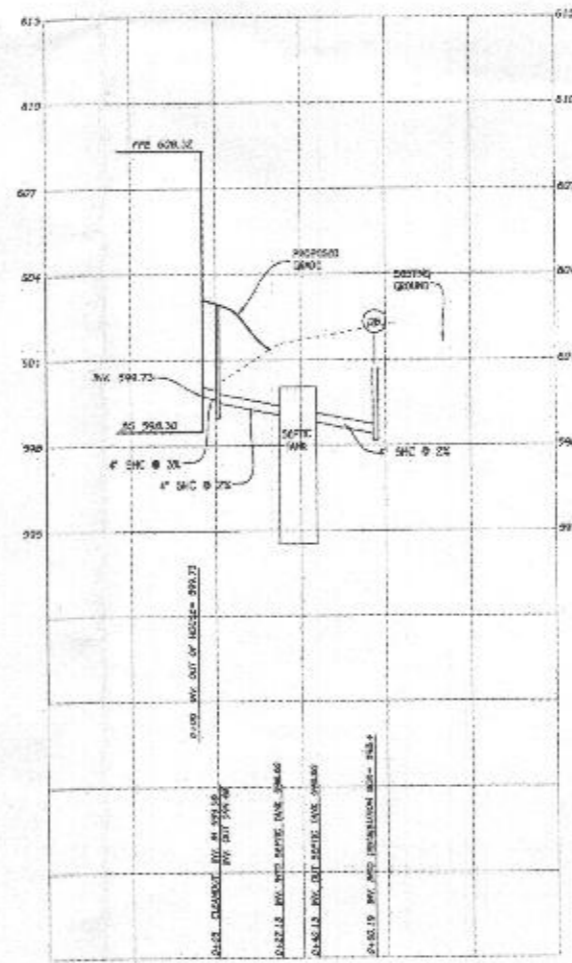
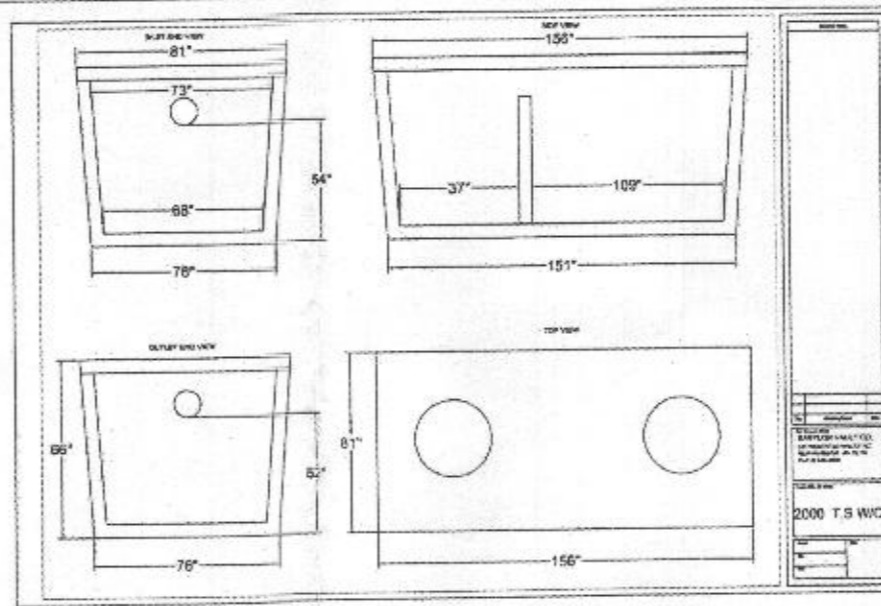
OWNER/DEVELOPER
BY: [Signature]
15305 GALAXY DRIVE
COLLEGE PARK, MD 20746
410-779-9996



PROFESSIONAL CERTIFICATION

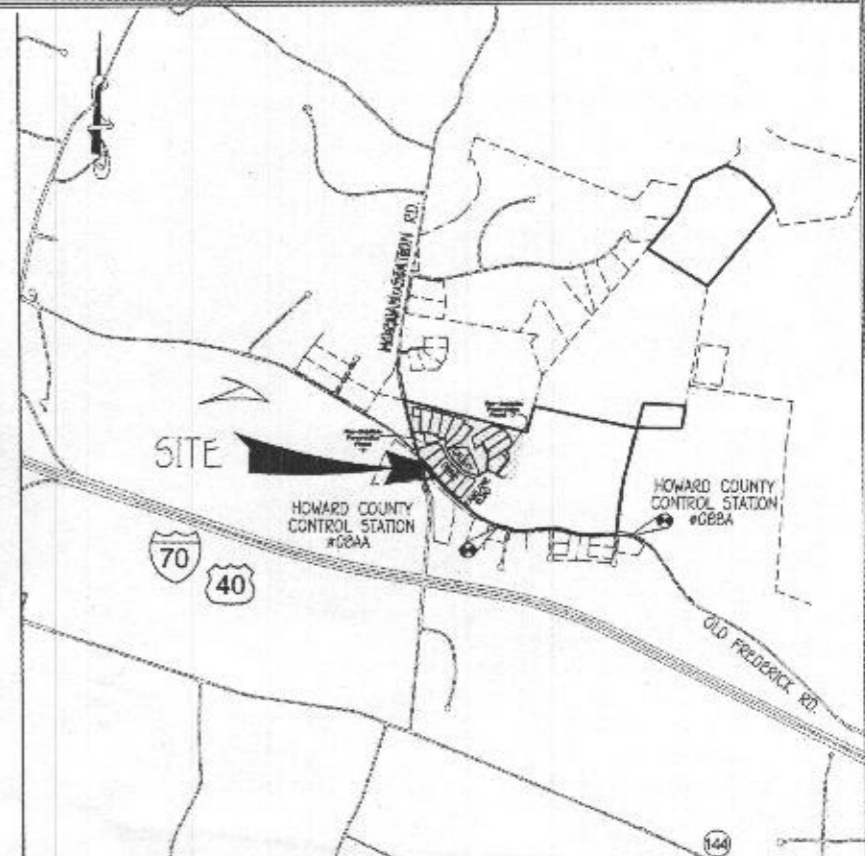
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 30748, EXPIRATION DATE: 07-31-2019.

[Signature]
Professional Engineer



SEPTIC PROFILE
SCALE: 1" = 30'

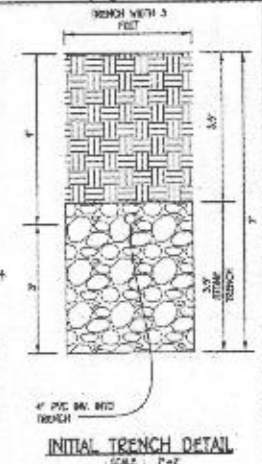
NOTE: NO GRAVITY SEWER SERVICE FOR LOT 2.



VICINITY MAP
SCALE: 1" = 1200'

FFE 608.32
BSE 598.30
INV. OUT OF HOUSE = 599.75
PROP. GROUND AT CLEANOUT #1 = 601.7
INV. INTO CLEANOUT = 595.58
EX. GROUND AT SEPTIC TANK = 596.1
PROP. GRADE ABOVE SEPTIC TANK = 596.1
TOP OF SEPTIC TANK = 601.8
INV. INTO SEPTIC TANK = 598.80
INV. OUT OF SEPTIC TANK = 598.80
EX. GROUND AT DISTRIBUTION BOX = 596.1
INV. INTO DISTRIBUTION BOX = 598.4
INV. OUT OF DISTRIBUTION BOX = 598.3

TRENCH DATA:
TRENCH 1:
CL. GROUND ABOVE = 602.4
INV. IN = 592.3
BOTTOM TRENCH = 595.4
TRENCH 2:
CL. GROUND ABOVE = 602
INV. IN = 598
BOTTOM TRENCH = 595.0



INITIAL TRENCH DETAIL
SCALE: 1" = 2'

INITIAL SYSTEM

SEWAGE DISPOSAL SYSTEM DATA DESIGN FOR
2 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 1.2
EFFECTIVE SIDEWALL BEGINS AT 3.5 FEET
TRENCH DEPTH = 9 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 3.5 FEET
SF OF DRAINFIELD = 750 GPD / 1.2 = 625 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH =
(W+2)/(W+1+2D)/(3+2)/(3+1+2(3.5))=0.71
TRENCH LENGTH = 208.33 SF x 0.71 = 147.92 FEET
USE 2 TRENCHES AT 73.96 LF.
TRENCH SPACING = 20'-4" = ((2x2) + 3) = 7' USE 10'

1ST REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA DESIGN FOR
2 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 1.2
EFFECTIVE SIDEWALL BEGINS AT 4.5 FEET
TRENCH DEPTH = 9 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 3.5 FEET
SF OF DRAINFIELD = 750 GPD / 1.2 = 625 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH =
(W+2)/(W+1+2D)/(3+2)/(3+1+2(3.5))=0.499
TRENCH LENGTH = 208.33 SF x 0.499 = 103.7 FEET
TRENCH LENGTH = 112.56 SF x 0.49 = 55.15 FEET
USE 2 TRENCHES AT 46.88 LF.
TRENCH SPACING = 20'-4" = ((2x2) + 3) = 7' USE 10'

2ND REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA DESIGN FOR
2 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 4.5 FEET
TRENCH DEPTH = 9 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 3.5 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(3.5))=0.71
TRENCH LENGTH = 312.56 SF x 0.49 = 153.63 FEET
USE 2 TRENCHES AT 76.81 LF.
TRENCH SPACING = 20'-4" = ((2x2) + 3) = 7' USE 10'

SEPTIC SYSTEM
INSTALLATION SITE PLAN
LOT 2
15305 GALAXY DRIVE
FAIRLANE FARMS

PHASE ONE




ZONED: RC-DEO
TAX MAP NO.: 8 QRD NO.: 2 PARCEL NO.: 8
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: FEB. 8, 2018
SHEET 1 OF 1

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
2	15305 GALAXY DRIVE

GENERAL NOTES:

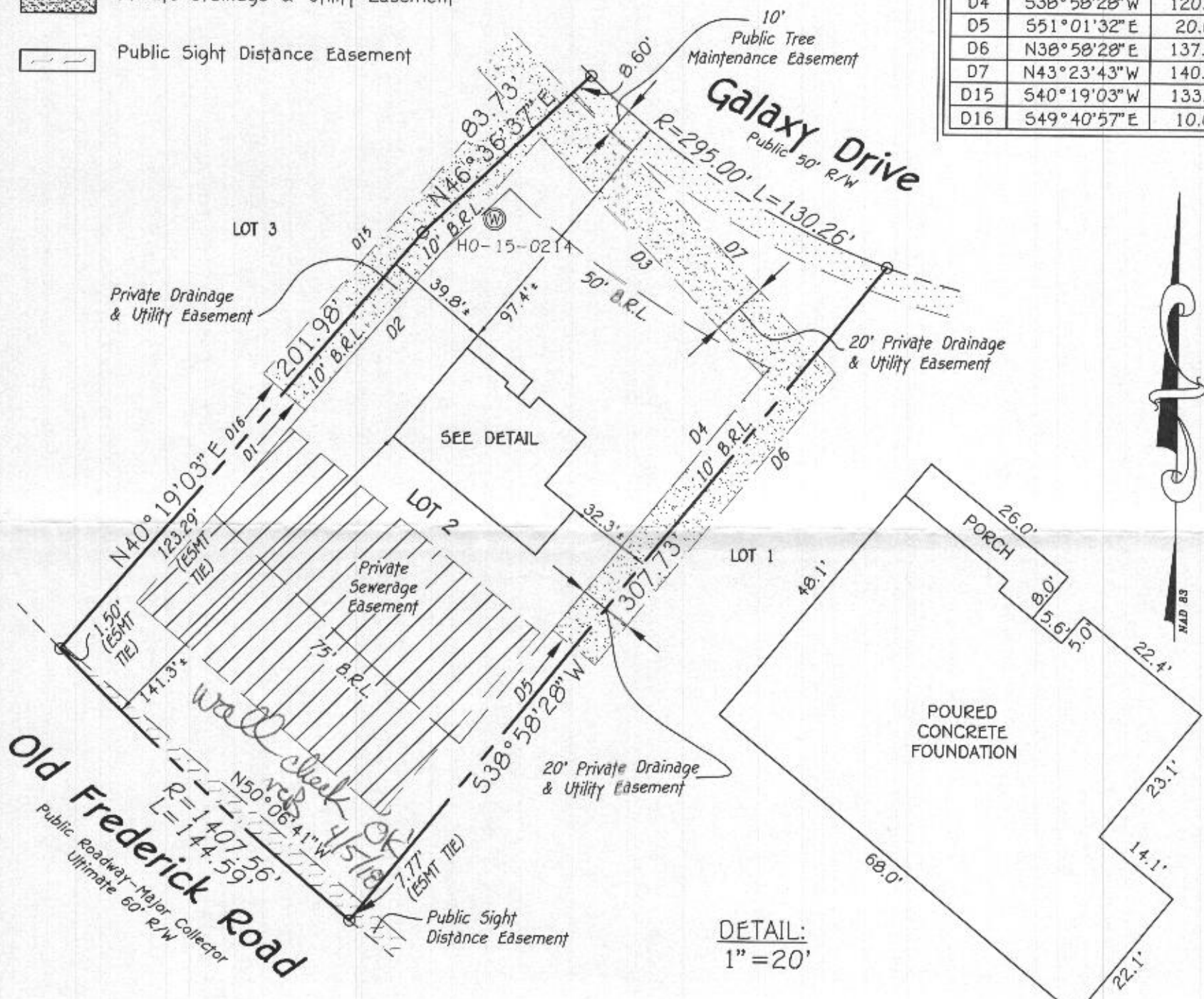
- 1) THIS LOCATION DRAWING IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM INsofar AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR REFINANCING OF THE PROPERTY SHOWN HEREON. UNLESS 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-15-0214) 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.
- 7) BUILDING PERMIT #B-18000421

Legend

-  10' Public Tree Maintenance Easement
-  Private Drainage & Utility Easement
-  Public Sight Distance Easement

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'
D15	S40°19'03"W	133.76'
D16	S49°40'57"E	10.00'



LOT 2
 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

#15305 GALAXY DRIVE
 B.R.L. = BUILDING RESTRICTION LINE
 TOP OF FOUNDATION ELEVATION = 607.1±

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

STATE OF MARYLAND
 MARK L. ROBEL
 No. 339
 PROPERTY LINE SURVEYOR

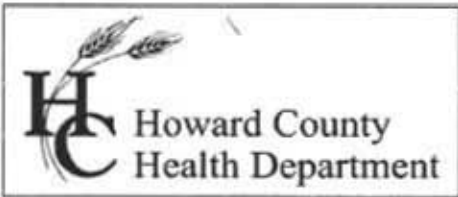
Mark L. Robel 3/30/18
 PROPERTY LINE SURVEYOR DATE
 REG. #339

**HOUSE LOCATION
 DRAWING**

FOUNDATION LOCATION: 3/28/18
 FINAL LOCATION: _____
 BOUNDARY SURVEY: _____

SCALE: 1" = 50'
 DATE: 3/30/18
 DRAWN BY: MSD
 CHECKED BY: MLR
 PROJECT No.: 05106-3003

Drawing Name: _____



Bureau of Environmental Health
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 Facebook: www.facebook.com/hocohealth

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

RECEIPT DATE: 4/5/18 **ONSITE SEWAGE DISPOSAL SYSTEM** P 562950
 APPROVAL DATE: _____ **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 15305 Galaxy Drive

SUBDIVISION: Fairlane Farms LOT: 2 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 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>147.92</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8' 7" (Kmw)</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5' 5" (Kmw)</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: Hank Oswald ISSUE DATE: 4/5/18 EXPIRATION DATE: 4/5/19

- 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 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 _____
- 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.

NOT TO SCALE

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
_____	_____	_____
NUMBER OF TRENCHES _____		
TOTAL LENGTH _____		
ABSORPTION AREA _____		
DISTRIBUTION BOX LEVEL _____		
DISTRIBUTION BOX BAFFLE _____		
DISTRIBUTION BOX PORT _____		

SEPTIC TANK DATA

SEPTIC TANK I LEVEL _____

MANUFACTURER _____

CAPACITY _____ GAL

SEAM LOC _____

TANK LID DEPTH _____

BAFFLES _____

BAFFLE FILTER _____

MANHOLE LOC _____

6" PORT LOC _____

WATERTIGHT TEST _____

SLOTTED _____

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 _____

ROAD NAME

PRE-CONSTRUCTION:

INSTALLATION:

FINAL INSPECTOR _____ DATE OF APPROVAL _____

RECEIVED

FEB 15 2018

LICENSES & PERMITS
DIVISION

Transmittal

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

To: Howard County- DILP 3430 Court House Dr. Ellicott City, Maryland 21043	Attn: Cathy Anest Fax: Phone:
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From: Dave Harward	CC:
---------------------------	-----

Re: Fairlane Farms, Lot 2	W.O.# 05106-3003
Date: Feb. 15, 2018	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 2, 15305 Galaxy Dr.

Here are 6 new copies of the permit (plot) site plan (house has been adjusted a few feet back, at the request of the Hank Oswald at the Health Dept.), so that the front porch is outside the 30 ft. well box radius. Please let me know if you have any questions.

Thank You,

Dave Harward

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

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Oswald, Hank

From: Oswald, Hank
Sent: Wednesday, February 14, 2018 1:42 PM
To: Tony Fertitta
Subject: Fairlane Farms_Lot 2

Hi Tony:

The building permit site plan does not match the OSDS Plan (i.e. well box 30 foot setback to front porch). Please revise.

Thank,

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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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 Fax: Phone: 410-313-2640
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From: Tony Fertitta	CC:
----------------------------	-----

Re: Fairlane Farms, Lot 2	W.O.# 05106-3003
Date: Feb. 5, 2018	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 2, 15305 Galaxy Dr.

We are providing here, 3 copies of a Septic Installation Site Plan for Lot 2, for your review/approval. Please leave 1 signed copy up front for us if approved as is.

Thank You,

Tony

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

RECEIVED

FEB 06 2018

HOWARD COUNTY HEALTH DEPT.
BUREAU OF ENVIRONMENTAL HEALTH

RECEIVED

HOWARD COUNTY HEALTH DEPT.
BUREAU OF ENVIRONMENTAL HEALTH

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Oswald, Hank

From: Oswald, Hank
Sent: Tuesday, February 06, 2018 2:56 PM
To: 'Cagle, Clint'
Subject: RE: Fairlane Farms Lot 3 and 4

Yes, the porch must fall outside the 30 foot well radius on the OSDS Plan and BP Site Plan. Lots 2, 3, 4 show porches within the 30 foot well radius.

Thanks,

Hank

From: Cagle, Clint [<mailto:ccagle@nvrinc.com>]
Sent: Tuesday, February 06, 2018 2:35 PM
To: Oswald, Hank
Cc: Dave Harward, III
Subject: RE: Fairlane Farms Lot 3 and 4

Hello Hank,

Yes, the front porches are concrete. Is there anything you need from Dave on this?

Thanks,

Clint Cagle | NVHomes | 301-237-5776

From: Oswald, Hank [<mailto:hoswald@howardcountymd.gov>]
Sent: Tuesday, February 6, 2018 2:26 PM
To: Cagle, Clint <ccagle@nvrinc.com>
Subject: [Ext] Fairlane Farms Lot 3 and 4

Hi Clint:

Quick question for you. Is the front porch on Lots 3 and 4, poured concrete porches? If so, then they're considered part of the foundation and must fall outside the 30 foot well radius.

Thanks,

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)

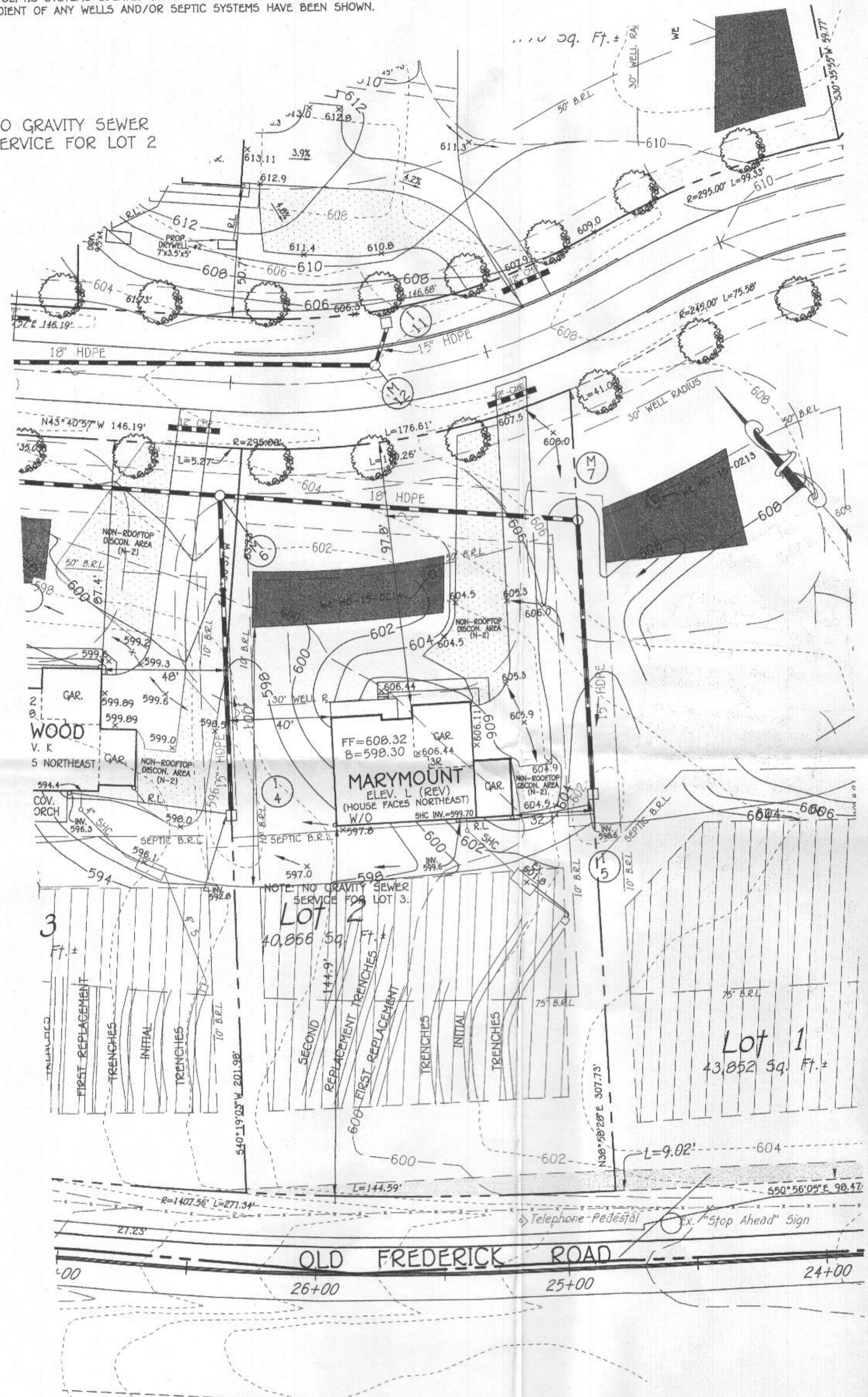
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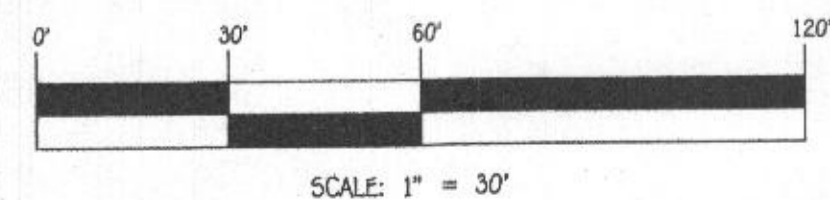
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NOTE: NO GRAVITY SEWER SERVICE FOR LOT 2



PLAN
SCALE: 1" = 30'



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING, CONSULTANTS & LAND SURVEYORS
CORPORAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461-2299

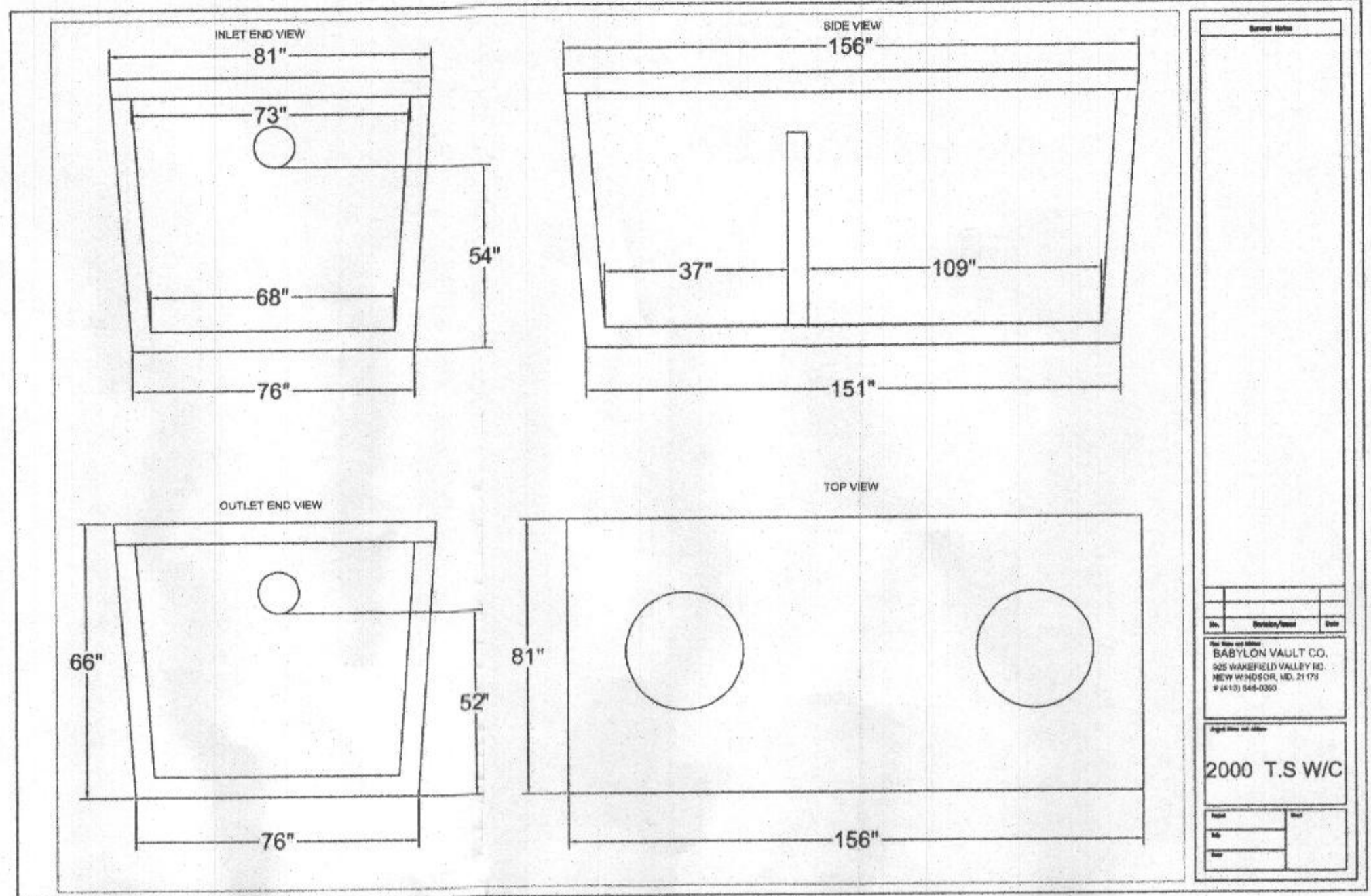
OWNER/DEVELOPER
NV HOMES
9720 PATUXENT WOODS DRIVE
COLUMBIA, MD 21046
410-379-5956



PROFESSIONAL CERTIFICATION

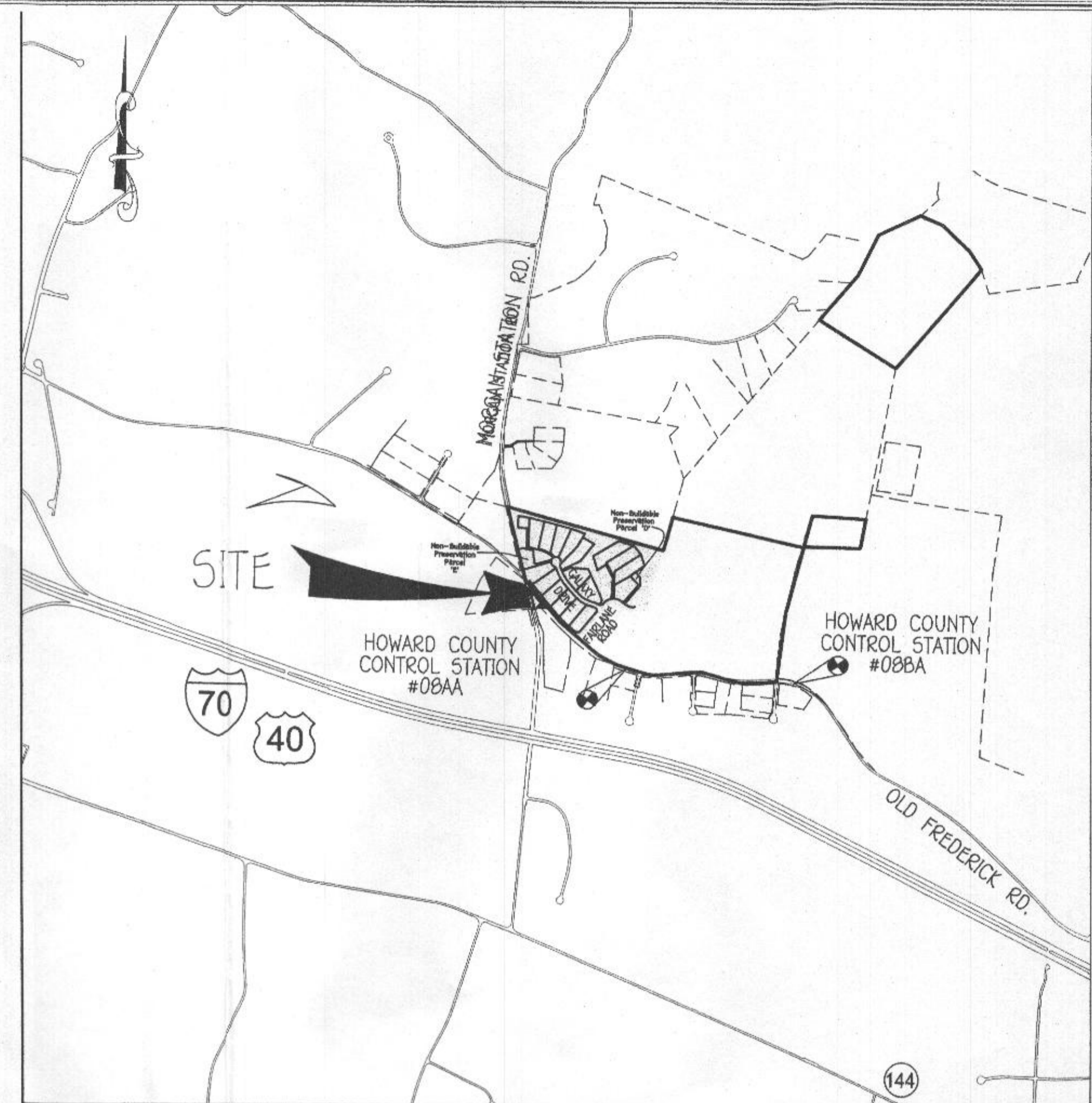
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20740, EXPIRATION DATE: 02/22/2019.

Michael J. Vitucci
Signature of Professional Engineer
2/9/19
DATE



SEPTIC PROFILE
SCALE: 1" = 30'

NOTE: NO GRAVITY SEWER SERVICE FOR LOT 2.

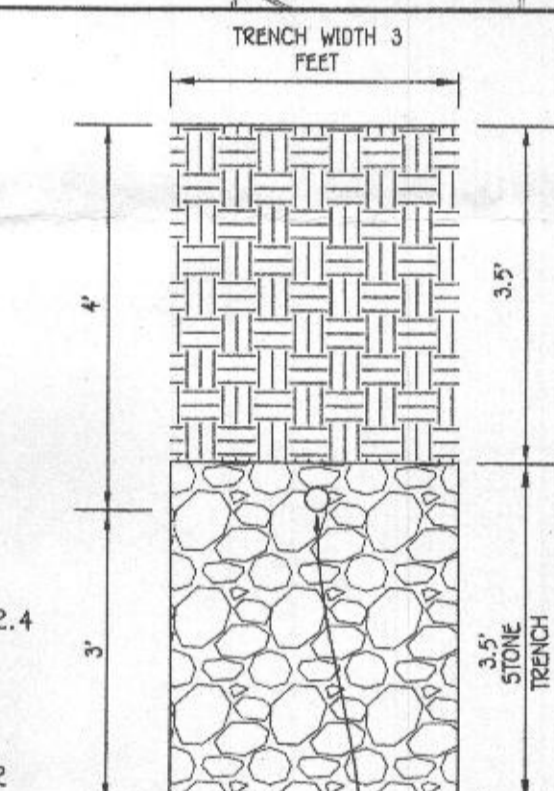


VICINITY MAP

SCALE: 1" = 1200'

FFE 608.32
BSE 598.30
INV. OUT OF HOUSE = 599.73
PROP. GROUND AT CLEANOUT #1 = 601.7
INV. INTO CLEANOUT = 599.58
INV. OUT OF CLEANOUT = 599.48
EX. GROUND AT SEPTIC TANK = 596.1
PROP. GRADE ABOVE SEPTIC TANK = 596.1
TOP OF SEPTIC TANK = 601.8
INV. INTO SEPTIC TANK = 598.80
INV. OUT OF SEPTIC TANK = 598.80
EX. GROUND AT DISTRIBUTION BOX = 596.1
INV. INTO DISTRIBUTION BOX = 598.4
INV. OUT OF DISTRIBUTION BOX = 598.3

Approved Septic System Plan
Howard County Health Department
Mark Oswald 2/9/19
Signature Date



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 = 1.2
EFFECTIVE SIDEWALL BEGINS AT 5.5 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 1.5 FEET
SF OF DRAINFIELD = 750 GPD / 1.2 = 625 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x1.5)) = 0.71
TRENCH LENGTH = 208.33 SF x 0.71 = 147.92 FEET
(USE 2 TRENCHES AT 73.96 L.F.)
TRENCH SPACING = 2D+W = ((2x2) + 3) = 7' USE 10'

1ST REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 1.2
EFFECTIVE SIDEWALL BEGINS AT 4.5 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 3.5 FEET
SF OF DRAINFIELD = 750 GPD / 1.2 = 625 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x3.5)) = 0.459
TRENCH LENGTH = 208.33 SF x 0.459 = 93.7 FEET
(USE 2 TRENCHES AT 46.85 L.F.)
TRENCH SPACING = 2D+W = ((2x2) + 3) = 7' USE 10'

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 4.5 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 3.5 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+(2x3.5)) = 0.71
TRENCH LENGTH = 312.50 SF x 0.45 = 140.63 FEET
(USE 2 TRENCHES AT 70.31 L.F.)
TRENCH SPACING = 2D+W = ((2x3) + 3) = 9' USE 10'

**SEPTIC SYSTEM
INSTALLATION SITE PLAN**

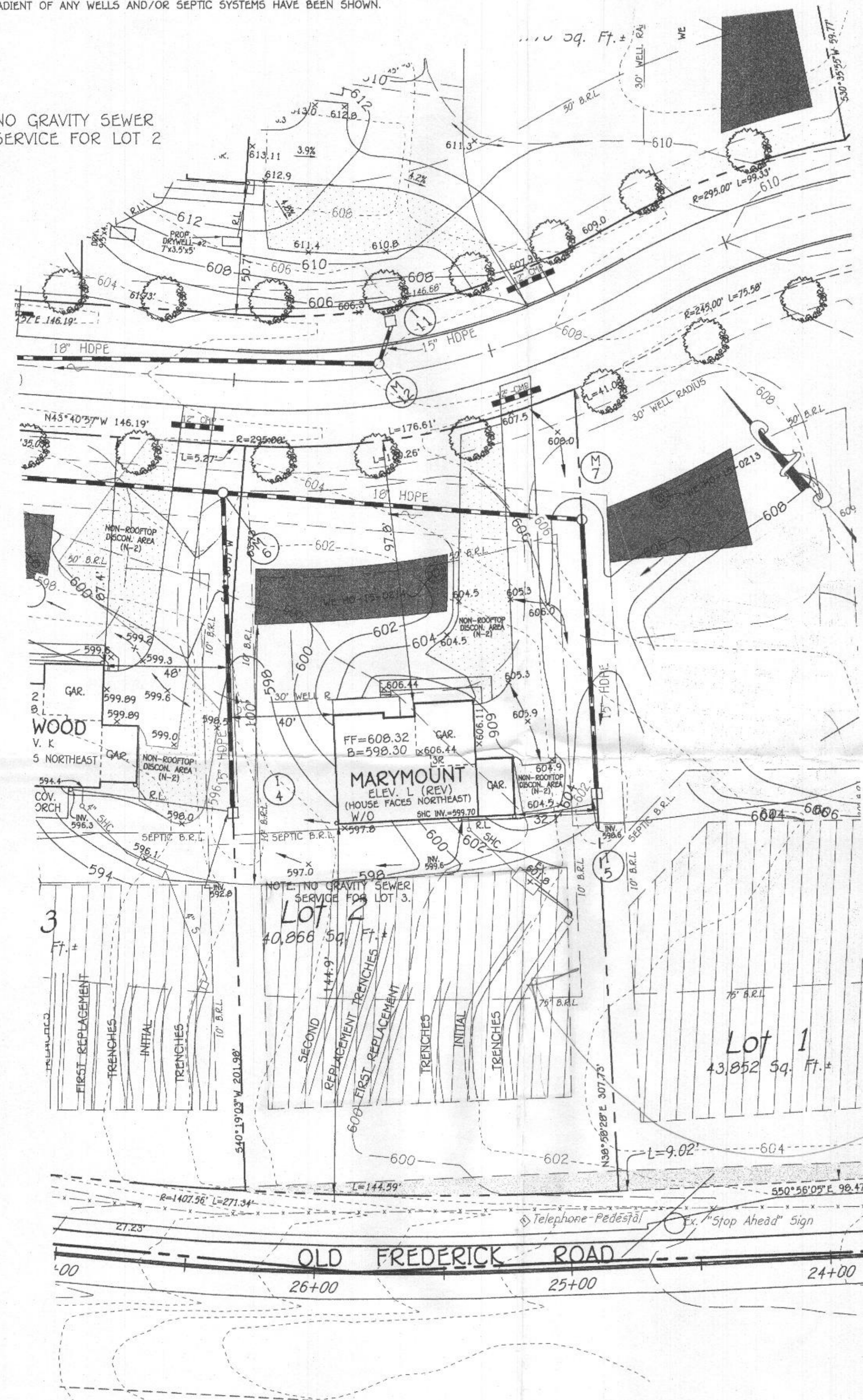
LOT 2
15305 GALAXY DRIVE
FAIRLANE FARMS

PHASE ONE
ZONED: RC-DEO
TAX MAP NO.: 8 GRID NO.: 2 PARCEL NO.: 8
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: FEB. 8, 2018
SHEET 1 OF 1

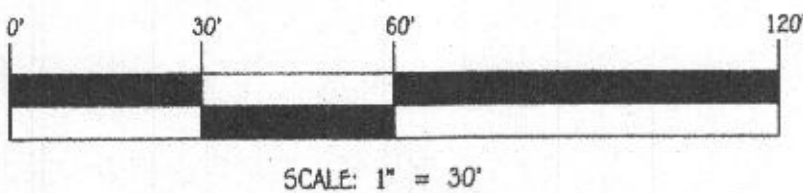
ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
2	15305 GALAXY DRIVE

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NOTE: NO GRAVITY SEWER SERVICE FOR LOT 2



PLAN
SCALE: 1" = 30'



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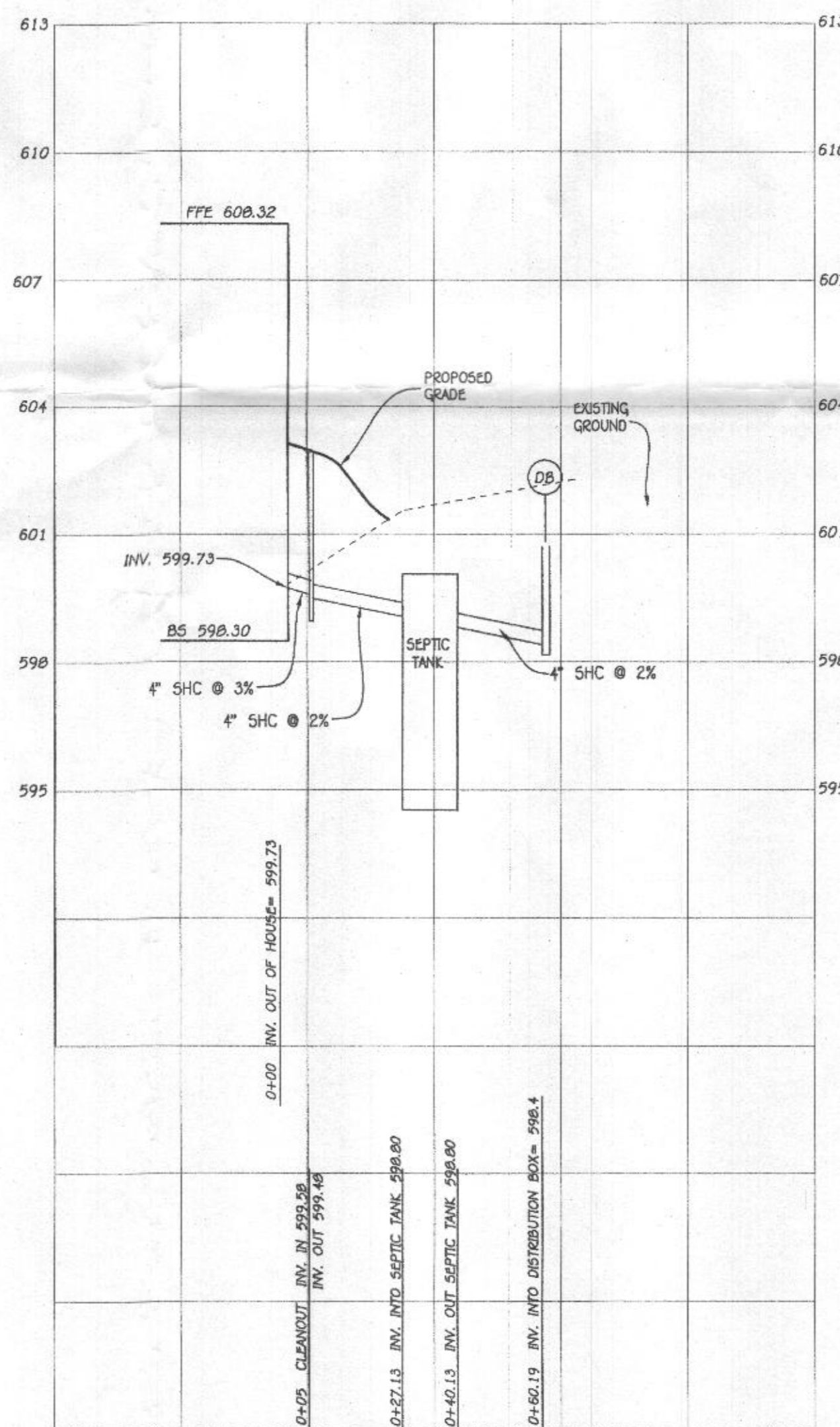
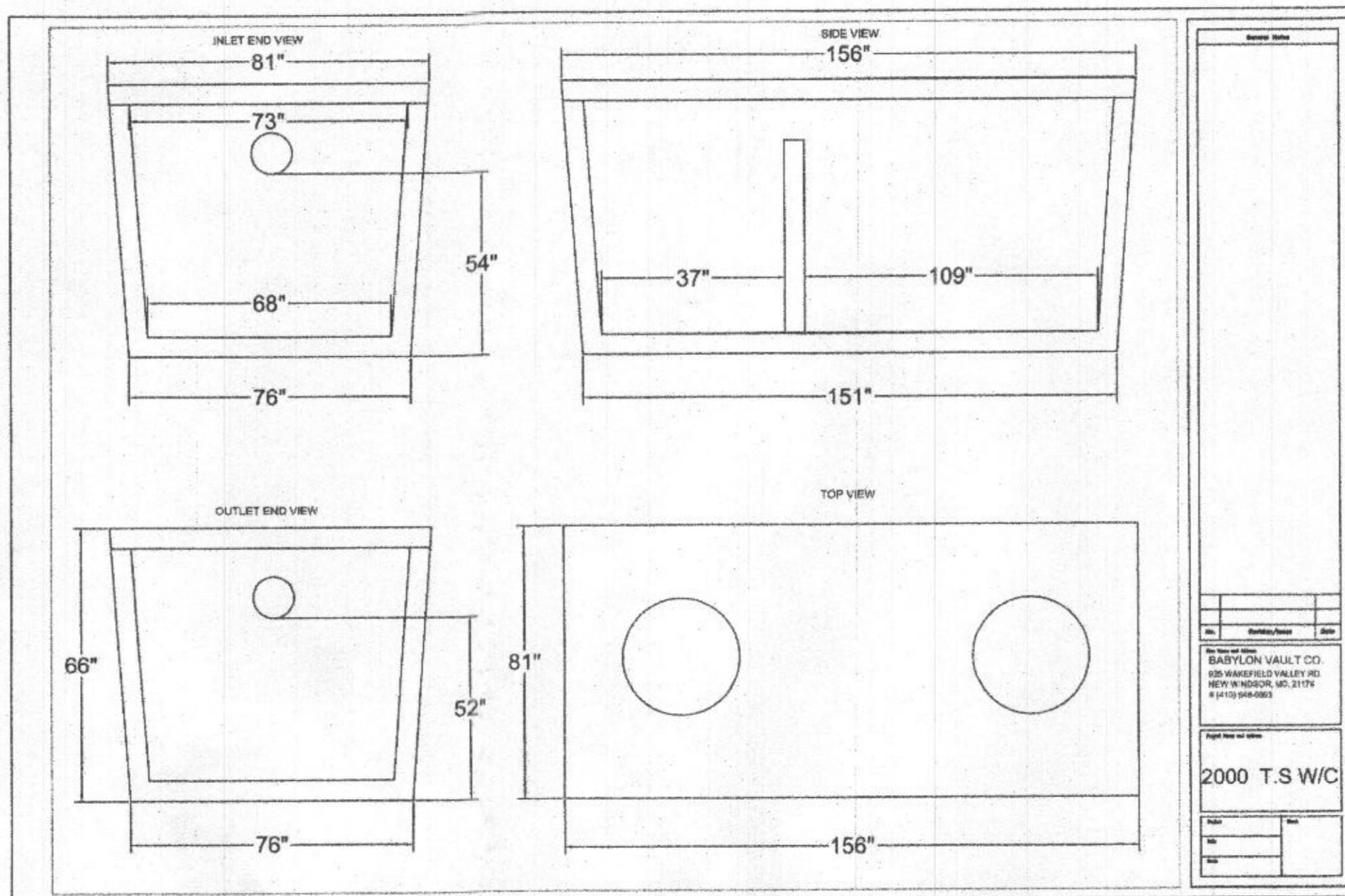
OWNER/DEVELOPER
NY HOMES
9720 PATENT WOODS DRIVE
COLUMBIA, MD 21046
410-379-5956



PROFESSIONAL CERTIFICATION

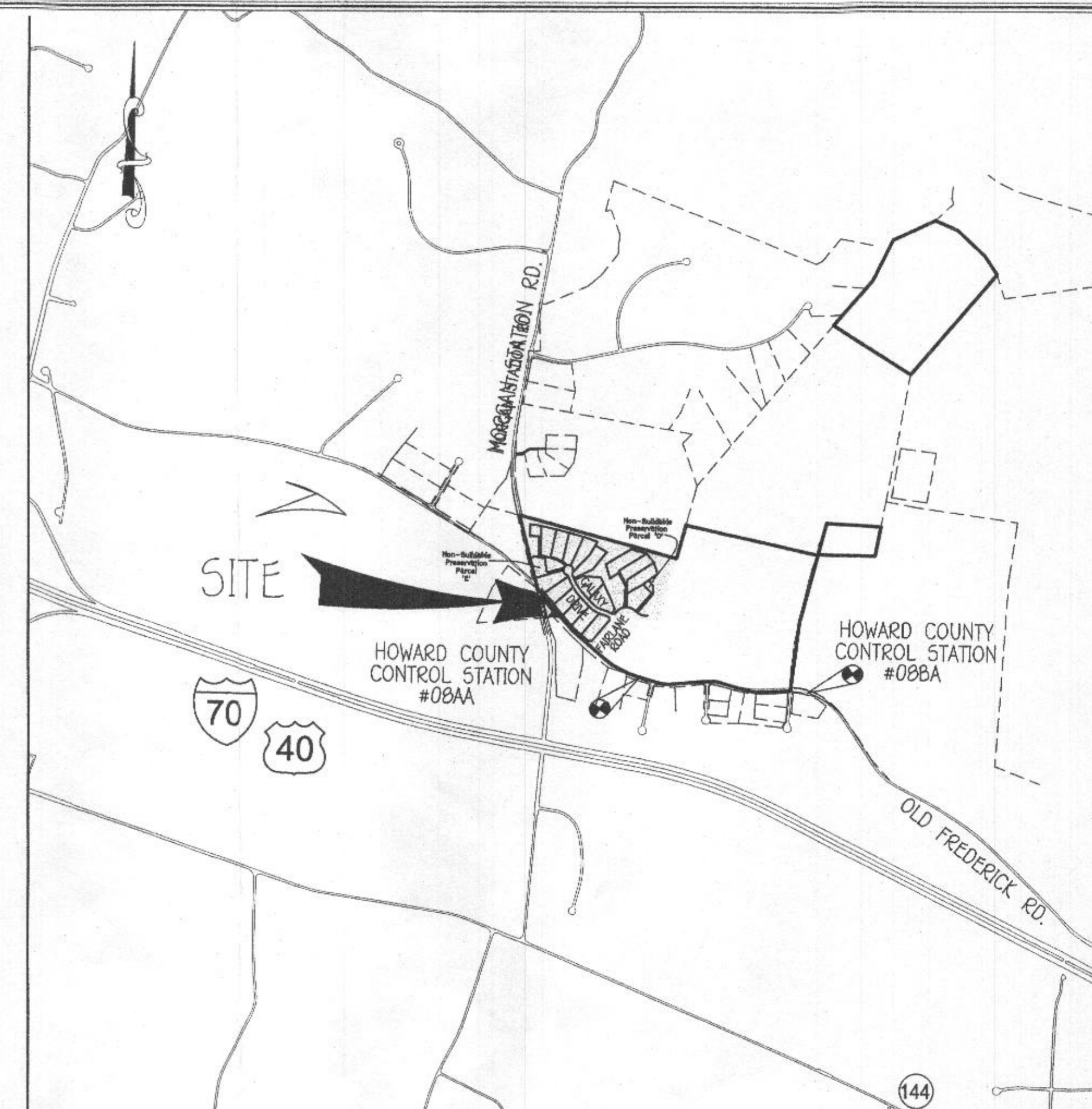
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20746, EXPIRATION DATE: 02/22/2019.

Michael J. Vitucci
Signature of Professional Engineer
2/9/18
DATE



SEPTIC PROFILE
SCALE: 1" = 30'

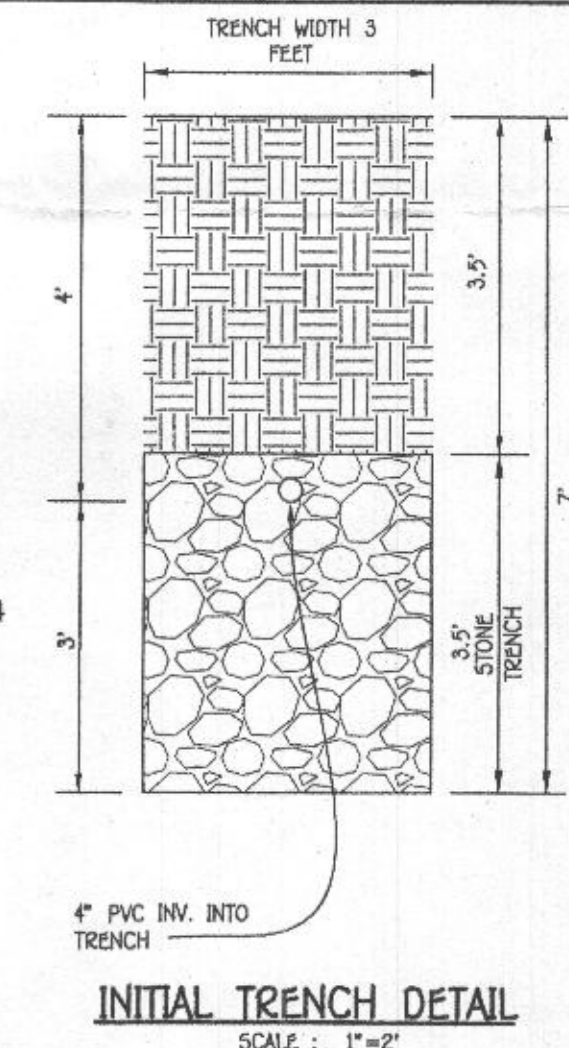
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SCALE: 1" = 1200'

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EX. GROUND AT DISTRIBUTION BOX = 596.1
INV. INTO DISTRIBUTION BOX = 598.4
INV. OUT OF DISTRIBUTION BOX = 598.3

TRENCH DATA:
TRENCH 1:
EX. GROUND ABOVE = 602.4
INV. IN = 592.3
BOTTOM TRENCH = 595.4
TRENCH 2:
EX. GROUND ABOVE = 602
INV. IN = 598
BOTTOM TRENCH = 595.0



INITIAL TRENCH DETAIL
SCALE: 1" = 2'

INITIAL SYSTEM

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EFFECTIVE DEPTH (D) = 3.5 FEET
SF OF DRAINFIELD = 750 GPD / 1.2 = 625 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x3.5)) = 0.455
TRENCH LENGTH = 208.33 SF x 0.455 = 93.7 FEET
(USE 2 TRENCHES AT 46.85 L.F.)
TRENCH SPACING = 2D+W = ((2x3) + 3) = 9' USE 10'

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 4.5 FEET
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INSTALLATION SITE PLAN**

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FAIRLANE FARMS

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TAX MAP NO.: 8 GRID NO.: 2 PARCEL NO.: 8
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ADDRESS CHART	
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