

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-A

APPROVAL DATE: 5/8/18 SEC **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 15313 Galaxy Drive

SUBDIVISION: Fairlane Farms LOT: 4 TAX ID: 04-599997

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>156.25</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>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 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.**

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 8	W.O.# 05106-3003
Date: Sept. 25, 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 4, 15313 Galaxy Drive

Provided here are 3 copies of a Septic Installation Site Plan for Lot 4, for your review/approval. The 1st replacement septic trenches have been revised to be 4 trenches at 52 ft. each, as you instructed Tony to provide. If approved as is, please leave 1 signed copy up front for us.

Thank You,

Dave Harward

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

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Oswald, Hank

From: Oswald, Hank
Sent: Friday, September 22, 2017 12:36 PM
To: 'Tony Fertitta'
Subject: OSDS Plan_15313 Galaxy Drive

Hi Tony:

I reviewed OSDS Plan for 15313 Galaxy Drive (Fairlane Farms Lot 4) with the following comment:

- Trench lengths may not exceed 100 feet.

Please revise 1st replacement system accordingly. You could redline or revise the plan to show 4 - 52 foot trenches for the 1st replacement system.

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

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 Fax: Phone: 410-313-2640
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From: Tony Fertitta	CC:
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Re: Fairlane Farms, Lot 4	W.O.# 05106-3003
Date: Feb. 8, 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 4, 15313 Galaxy Dr.

Here are 3 new copies of the OSDS for Lot 4 and 1 copy of the permit site plan (house has been adjusted so that the front porch is outside the 30 ft. well box radius. Please let me know if you have any questions.

Thank You,

Tony

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

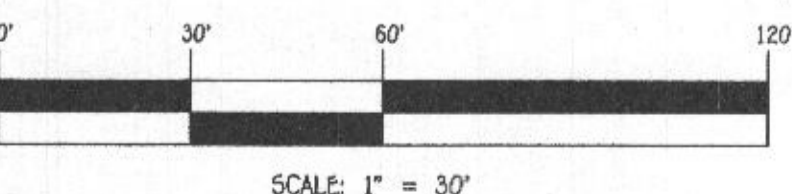
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NOTE:
THE EXISTING WELLS SHOWN ON THIS PLAN, HO-15-0213 HAS BEEN FIELD LOCATED BY FISHER, COLLINS & CARTER, INC., PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.



PLAN
SCALE: 1" = 30'



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 11272 BALDWIN NATIONAL PIKE
ELICOTT CITY, MARYLAND 21146
(410) 461-2895

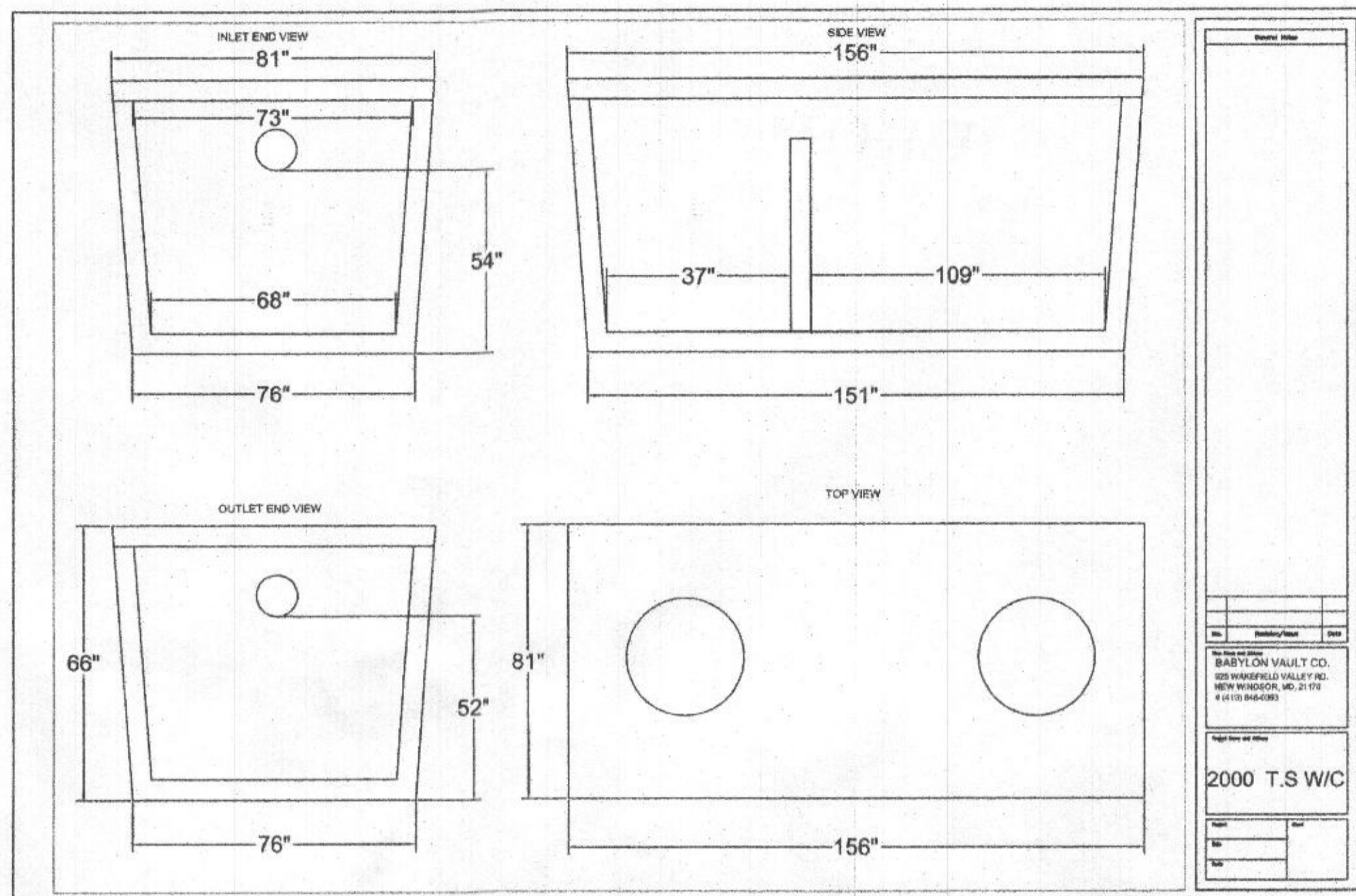
OWNER/DEVELOPER
INV HOMES
9720 PATENTWOOD DRIVE
COLUMBIA, MD 21046
410-375-9956



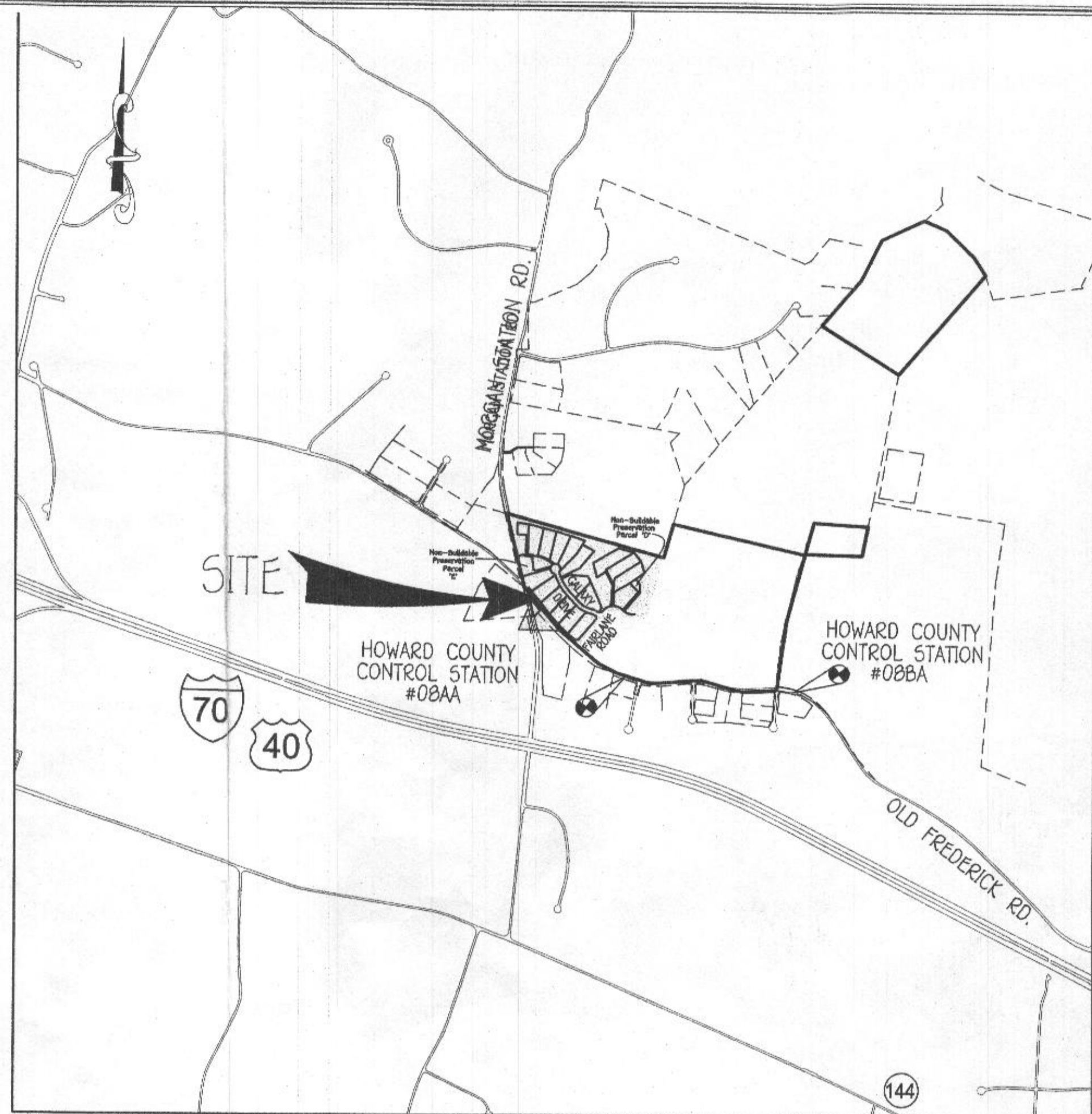
PROFESSIONAL CERTIFICATION

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. 20746, EXPIRATION DATE: 02/22/2019.

Michael J. Vitucci
Signature of Professional Engineer
2/8/19
DATE



NO.	DESCRIPTION	DATE
1	2000 T.S W/C	



VICINITY MAP
SCALE: 1" = 1200'

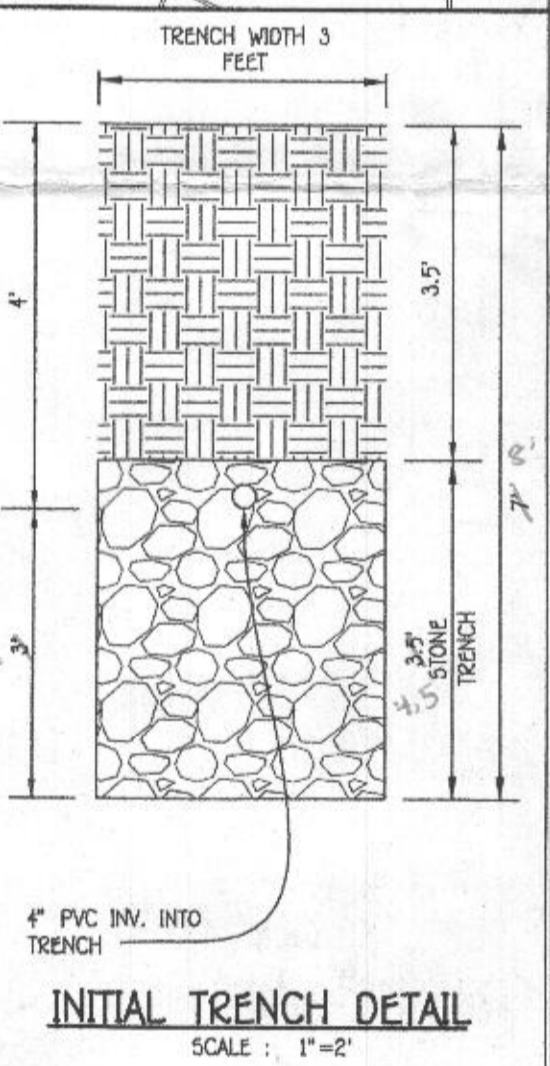
FFE 600.34
BSE 590.50
INV. OUT OF HOUSE = 587.40
PROP. GROUND AT CLEANOUT = 589.9
INV. INTO CLEANOUT = 586.27
INV. OUT OF CLEANOUT = 586.17
EX. GROUND AT SEPTIC TANK = 589.83
PROP. GRADE ABOVE SEPTIC TANK = 589.83
TOP OF SEPTIC TANK = 586.83
INV. INTO SEPTIC TANK = 585.83
INV. OUT OF SEPTIC TANK = 585.58
EX. GROUND AT DISTRIBUTION BOX = 589.0
INV. INTO DISTRIBUTION BOX = 585.2
INV. OUT OF DISTRIBUTION BOX = 585.1

INITIAL SYSTEM
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS (PERMIT FOR 4 BEDROOMS)
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 5 FEET
TRENCH DEPTH (D) = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 3 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+(2x8)) = 0.5
TRENCH LENGTH = 937.5 SF x 0.5 = 156.25 FEET
(USE 2 TRENCHES AT 78.13 LF.)
TRENCH SPACING = 2D+W = ((2x8) + 3) = 7' USE 10'

1ST REPLACEMENT SYSTEM
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS (PERMIT FOR 4 BEDROOMS)
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.6
EFFECTIVE SIDEWALL BEGINS AT 5 FEET
TRENCH DEPTH (D) = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 5 FEET
SF OF DRAINFIELD = 750 GPD / 0.6 = 1250 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x3)) = 0.5
TRENCH LENGTH = 1250 SF x 0.5 = 208.33 FEET
(USE 4 TRENCHES AT 52 LF.)
TRENCH SPACING = 2D+W = ((2x3) + 3) = 9' USE 10'

2ND REPLACEMENT SYSTEM
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS (PERMIT FOR 4 BEDROOMS)
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 5 FEET
TRENCH DEPTH (D) = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 3 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+(2x2)) = 0.5
TRENCH LENGTH = 937.5 SF x 0.5 = 156.25 FEET
(USE 2 TRENCHES AT 78.13 LF.)
TRENCH SPACING = 2D+W = ((2x2) + 3) = 7' USE 10'

TRENCH DATA:
TRENCH 1:
EX. GROUND ABOVE = 589
INV. IN = 585
BOTTOM TRENCH = 581
TRENCH 2:
EX. GROUND ABOVE = 588
INV. IN = 584
BOTTOM TRENCH = 580



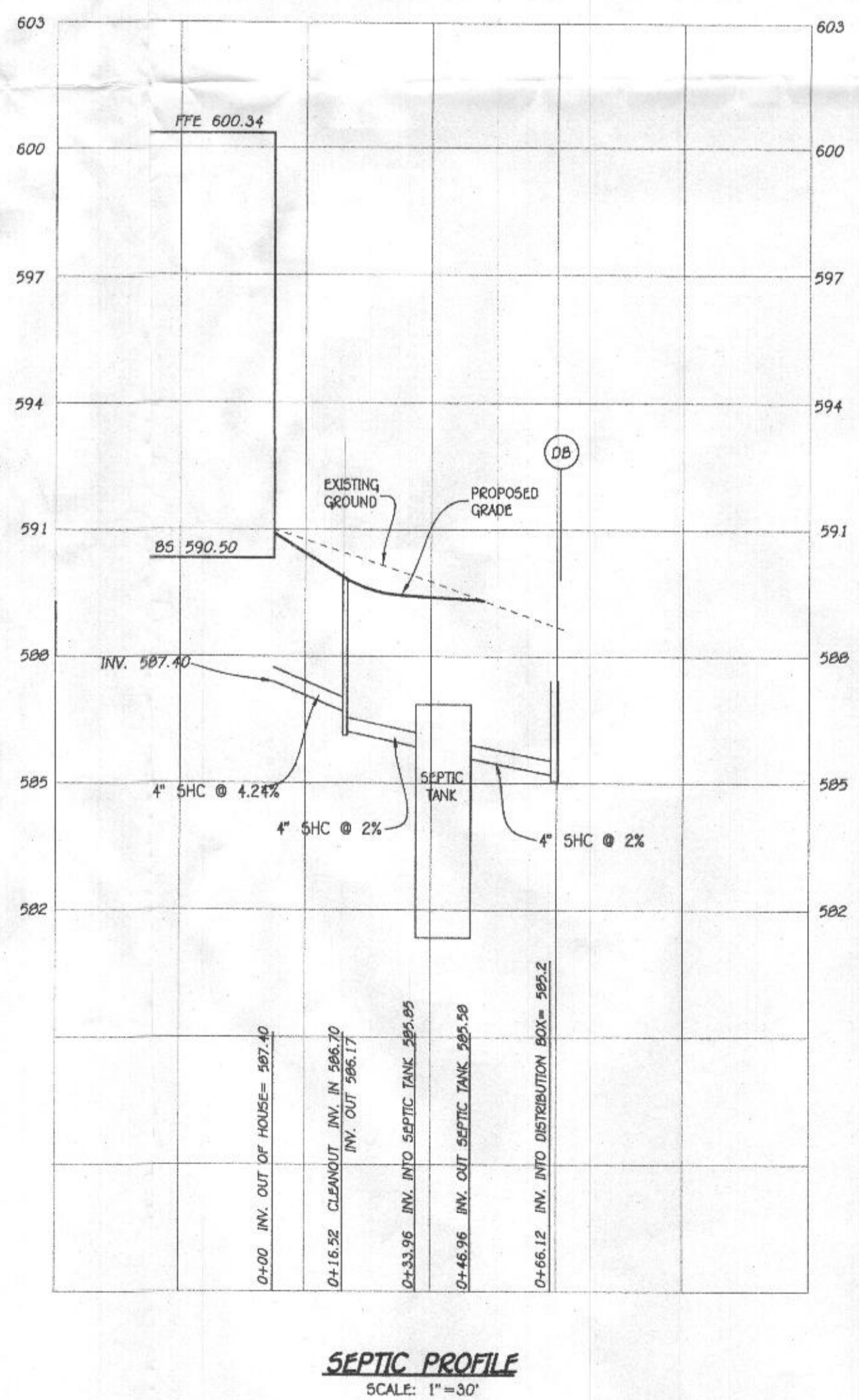
INITIAL TRENCH DETAIL
SCALE: 1" = 2'

Approved Septic System Plan
Howard County Health Department
Mark Oswald
Signature Date 2/11/19

SEPTIC SYSTEM INSTALLATION SITE PLAN
LOT 4
15313 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
4	15313 GALAXY DRIVE



SEPTIC PROFILE
SCALE: 1" = 30'