

**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](http://www.hchealth.org)  
 Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)

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

RECEIPT DATE: 2/28/18 **ONSITE SEWAGE DISPOSAL SYSTEM**

502910

APPROVAL DATE: 3/14/18 **PERMIT: CONSTRUCTION**

A

PROPERTY ADDRESS: 1023 Fairlane Road

SUBDIVISION: Fairlane Farms

LOT: 18

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 \_\_\_\_\_

|           |   |  |
|-----------|---|--|
| TRENCHES: | LINEAR FEET REQUIRED: <u>80.21</u>  | INLET DEPTH: <u>4</u>                    |
|           | TRENCH WIDTH: <u>3</u>  | MAXIMUM BOTTOM DEPTH: <u>7.5</u>         |
|           | MINIMUM SPACE BETWEEN TRENCHES: _____   | 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:    |   |  |

ISSUED BY: Hank Oswald

ISSUE DATE: 2/28/18

EXPIRATION DATE: 2/28/19

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.**

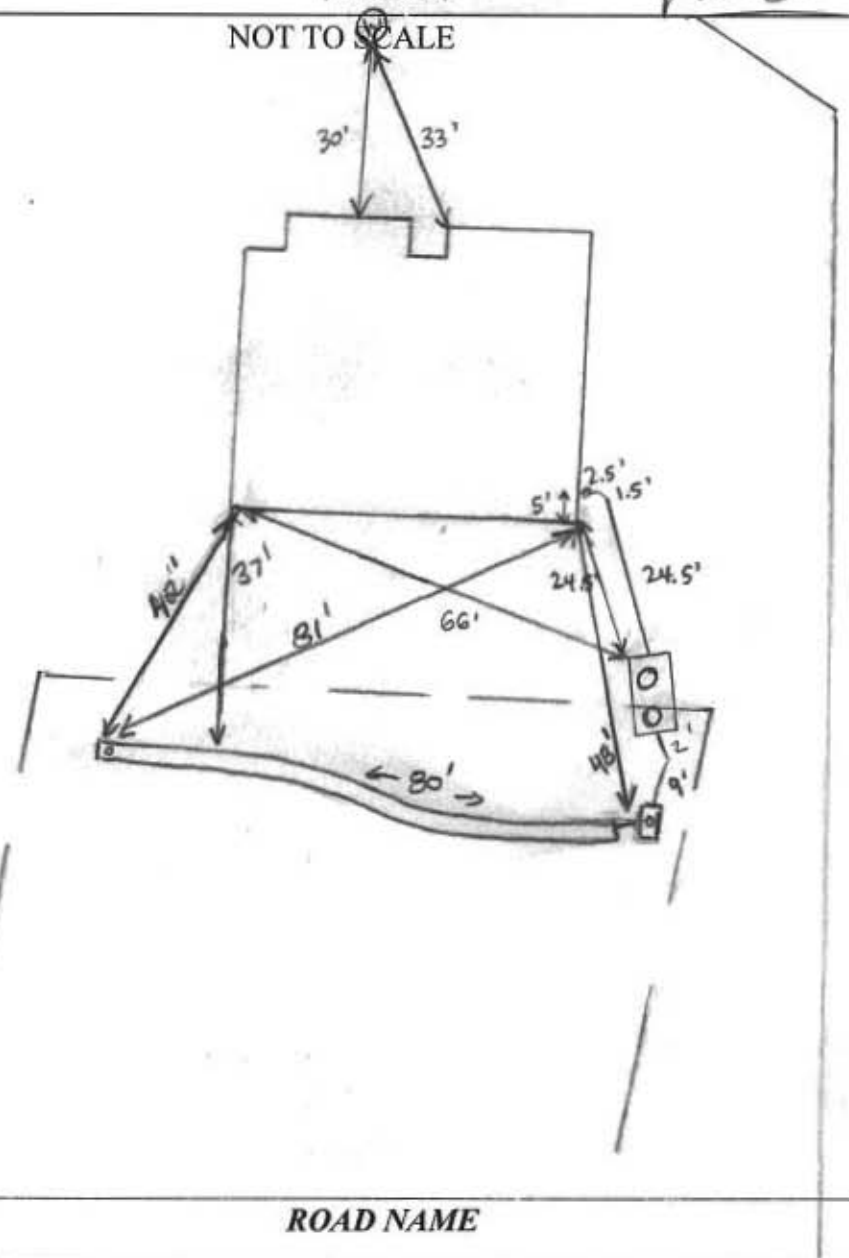
**PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.**

**CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

HO-15-0217

1" = 30'

NOT TO SCALE



**TRENCH/DRAINFIELD DATA**

| WIDTH  | INLET | BOTTOM |
|--|-------|--------|
| 3'   | 4'    | 7.5'   |
| NUMBER OF TRENCHES <u>1</u>                  |       |        |
| TOTAL LENGTH <u>80'</u>                      |       |        |
| ABSORPTION AREA <u>240'±SW</u>               |       |        |
| DISTRIBUTION BOX LEVEL <u>Yes</u> (no level) |       |        |
| DISTRIBUTION BOX BAFFLE <u>Yes</u>           |       |        |
| DISTRIBUTION BOX PORT <u>Yes</u>             |       |        |

**SEPTIC TANK DATA**

|                     |                     |
|---------------------|---------------------|
| SEPTIC TANK I LEVEL | <u>YES</u>          |
| MANUFACTURER        | <u>BARON</u>        |
| CAPACITY            | <u>2000</u> GAL     |
| SEAM LOC            | <u>TOP</u>          |
| TANK LID DEPTH      | <u>1.5-2'</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         | <u>2-1-18</u>       |

**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:**

3/12/18 Met S. Carroll on site for layout. SDA corner stakes present. Shot contour + laid out 1x95' trench for 4' inlet. Contractor will make inlet shallower if possible b/c effective sidewalk starts @ 3'. Will determine inlet depth + adjust trench length when tank is set. (SC)

**INSTALLATION:**

3/13/18 House connection made. On site while tank was set - no cracks on bottom or sides. S. Carroll should be able to make 3.5' inlet - okay to do 1x87' trench. (SC) 3/14/18 Trench complete. No leaks on down 'ok'. OK to cover all work. (KRW)

FINAL INSPECTOR

*K. Hoff*

DATE OF APPROVAL

3/14/18



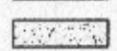


**GENERAL NOTES:**

- 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 1.0'.
- 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-15-0217 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-18000055.
- 8) LOTS 7 AND 8 MAY BE PROVIDED DIRECT ACCESS TO THE PUBLIC ROAD AND MAY NOT UTILIZE THE PRIVATE SHARD DRIVEWAY EASEMENT FOR THE ACCESS AND MAY NOT PARTICIPATE IN THE DRIVEWAY MAINTENANCE AGREEMENT.

**Public And Private Drainage & Utility Easement Line Table**

| LINE | BEARING     | LENGTH  |
|------|-------------|---------|
| D22  | S85°37'32"E | 106.11' |
| D23  | N59°10'37"E | 231.25' |
| D24  | S30°49'23"E | 20.00'  |
| D25  | S59°10'37"W | 237.59' |
| D26  | N85°37'32"W | 112.08' |
| D27  | N03°18'26"E | 20.00'  |

**Legend**

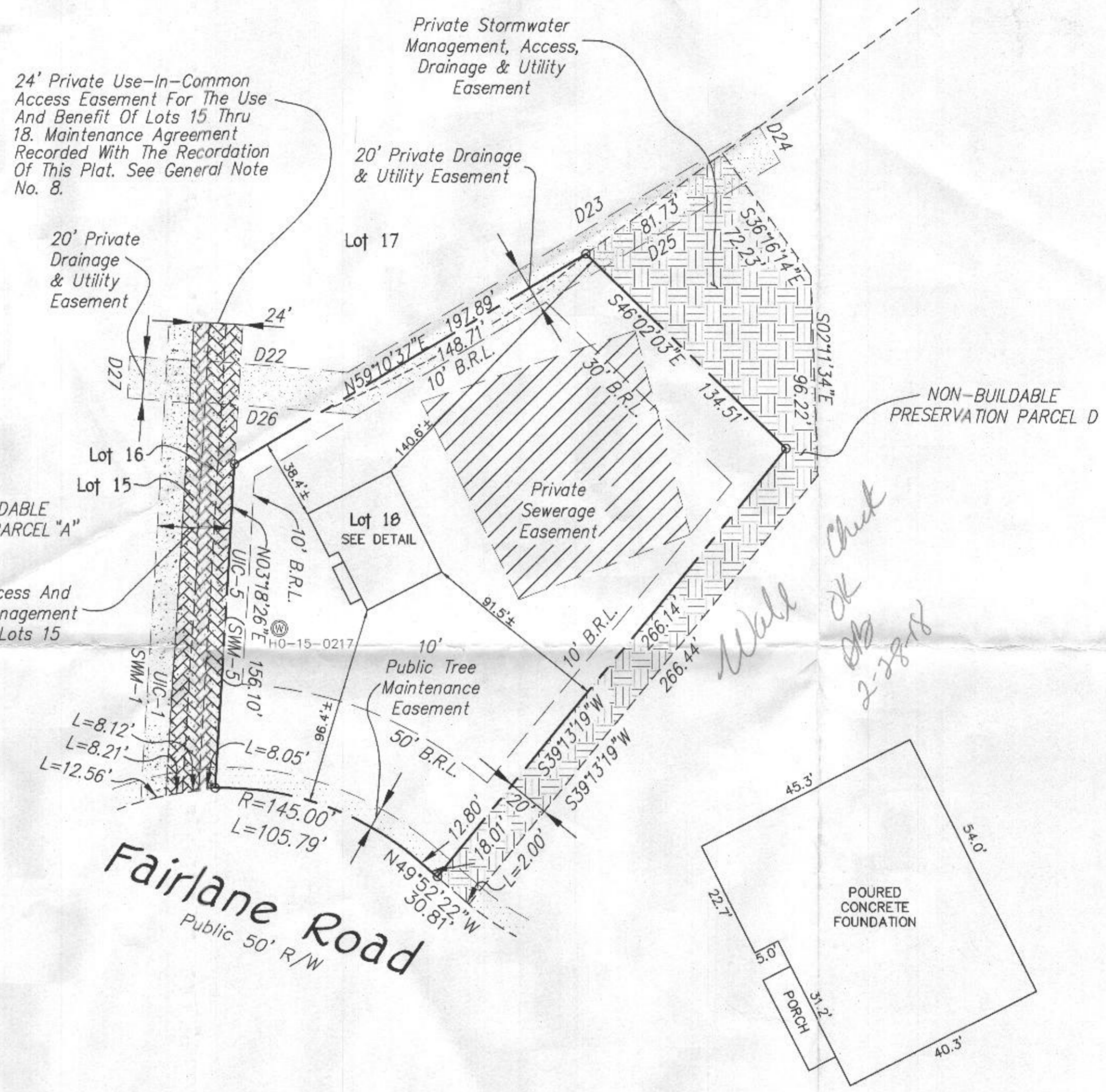
-  Private Stormwater Management, Access, Drainage & Utility Easement
-  Private Drainage & Utility Easement
-  10' Public Tree Maintenance Easement
-  36' Private Access And Stormwater Management Easement For Lots 15 Thru 18
-  Private Use-In-Common Access Easement

**24' Private Use-In-Common Access Easement Line Table**

| LINE  | BEARING     | LENGTH  |
|-------|-------------|---------|
| UIC-1 | N03°18'26"E | 234.62' |
| UIC-5 | S03°18'26"W | 237.32' |

**36' Private Access And Stormwater Management Easement Line Table**

| LINE  | BEARING     | LENGTH  |
|-------|-------------|---------|
| SWM-1 | N03°18'26"E | 234.90' |
| SWM-5 | S03°18'26"W | 237.32' |



#1023 FAIRLANE ROAD  
 B.R.L. = BUILDING RESTRICTION LINE  
 TOP OF FOUNDATION ELEVATION = 612.2'±

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

*Mark L. Robel* 2/22/18  
 PROPERTY LINE SURVEYOR  
 REG. #339

**HOUSE LOCATION DRAWING**

FOUNDATION LOCATION: 2/13/18  
 FINAL LOCATION:  
 BOUNDARY SURVEY:

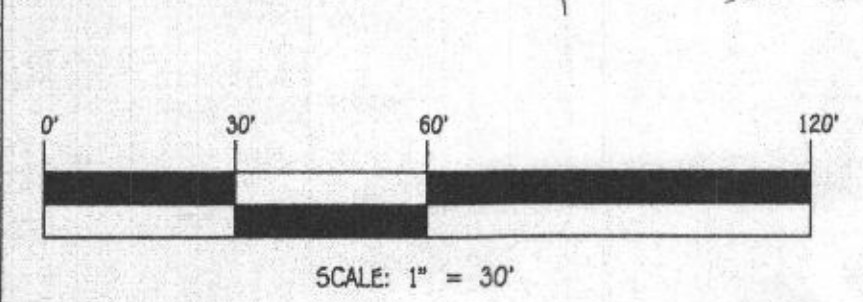
SCALE: 1"=50'  
 DATE: 2/22/18  
 DRAWN BY: MSD  
 CHECKED BY: MLR  
 PROJECT No.: 05106-3003

DETAIL:  
 1"=20'

LOT 18  
 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

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

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-15-0217 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.

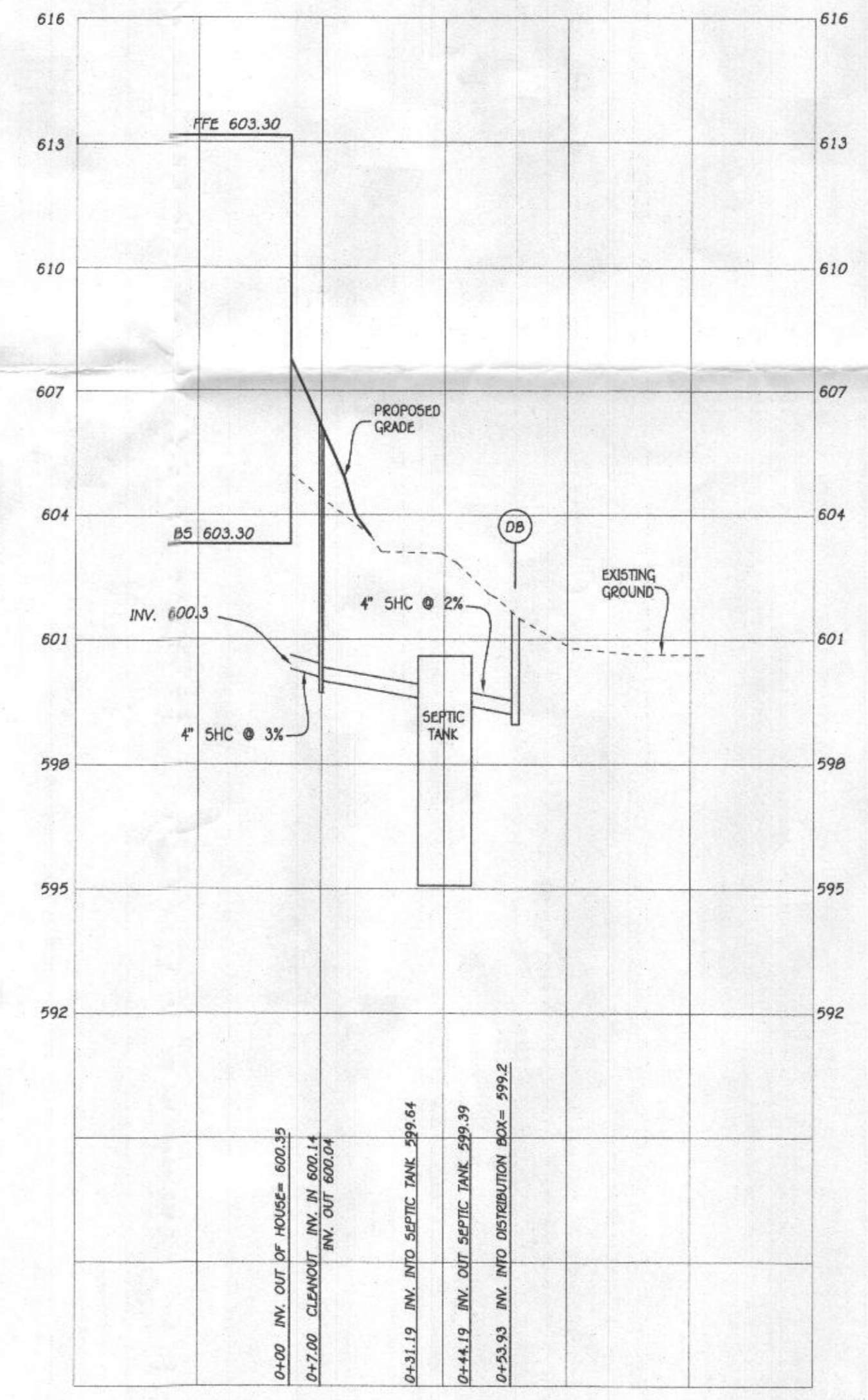
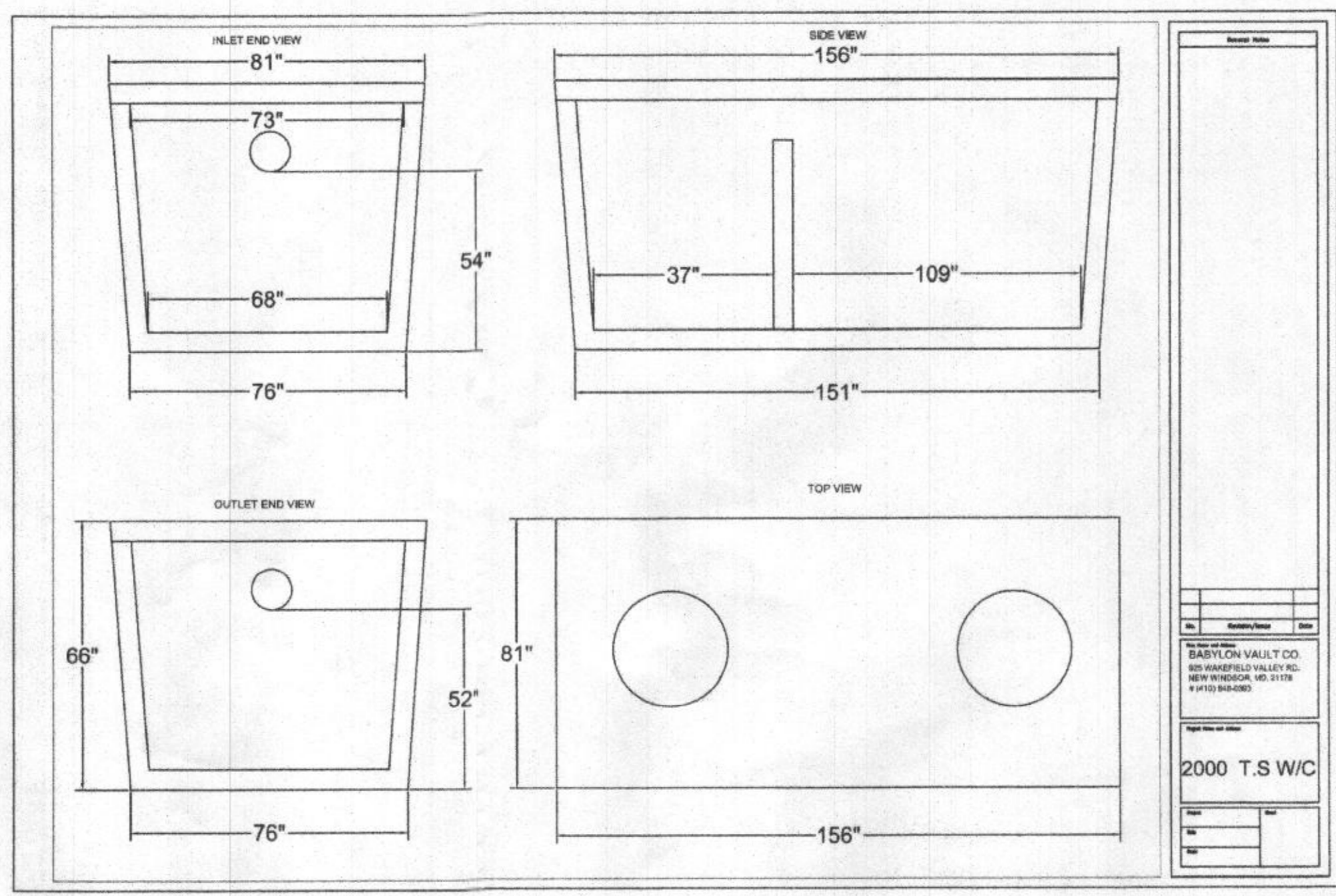


**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING, CONSULTANTS & LAND SURVEYORS  
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELIZOFT CITY, MARYLAND 21146  
 (410) 461-2995

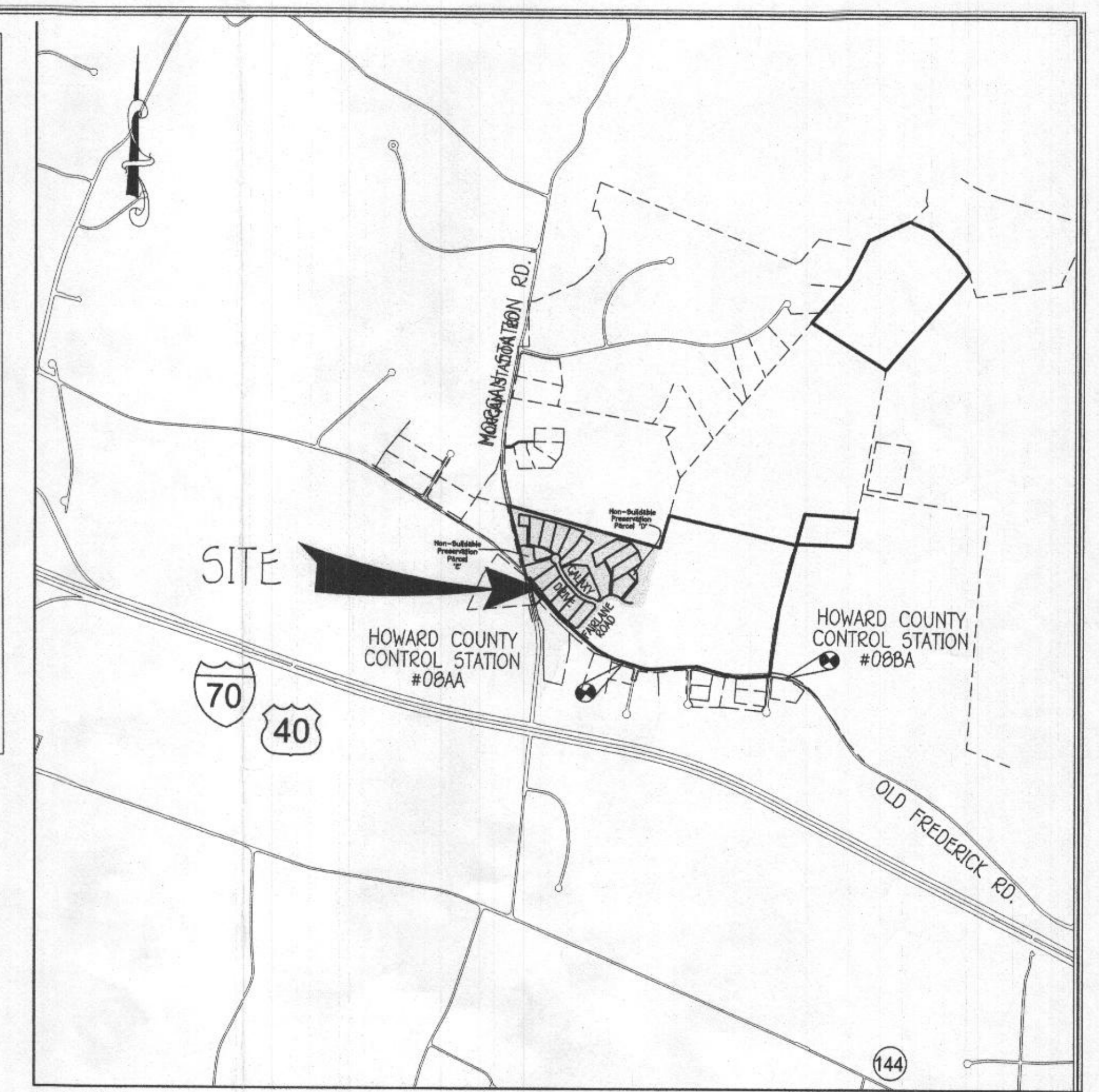
**OWNER/DEVELOPER**  
 NY HOMES  
 9720 PATRUMENT WOODS DRIVE  
 COLUMBIA, MD 21046  
 410-379-5956



**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. 20748, EXPIRATION DATE: 02/22/2019.  
 Signature of Professional Engineer: *Michael V. Vitorei*  
 DATE: 1/9/18



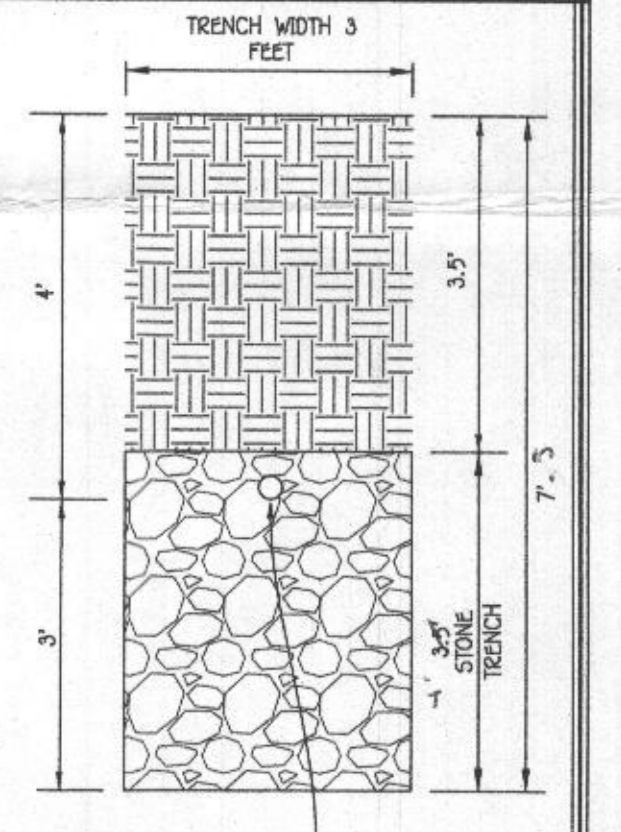
**SEPTIC PROFILE**  
 SCALE: 1" = 30"



**VICINITY MAP**  
 SCALE: 1" = 1200"

FFE 613.14  
 BSE 603.30  
 PROP. GROUND AT CLEANOUT #1 = 605.8  
 INV. INTO CLEANOUT = 600.1  
 INV. OUT OF CLEANOUT = 600.0  
 EX. GROUND AT SEPTIC TANK = 603.8  
 PROP. GRADE ABOVE SEPTIC TANK = 603.1  
 TOP OF SEPTIC TANK = 600.6  
 INV. INTO SEPTIC TANK = 599.6  
 INV. OUT OF SEPTIC TANK = 599.35  
 EX. GROUND AT DISTRIBUTION BOX = 602.1  
 INV. INTO DISTRIBUTION BOX = 599.2  
 INV. OUT OF DISTRIBUTION BOX = 599.1

Approved Septic System Plan  
 Howard County Health Department  
 Hans Oswald 1/9/18  
 Signature Date



**INITIAL TRENCH DETAIL**  
 SCALE: 1" = 2"

**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 = 1.2  
 EFFECTIVE SIDEWALL BEGINS AT 3 FEET  
 TRENCH DEPTH = 7.5 FEET  
 TRENCH WIDTH (W) = 3 FEET  
 EFFECTIVE DEPTH (D) = 3 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+(2x4.5)) = 0.385  
 TRENCH LENGTH = 208.33 SF x 0.385 = 80.21 FEET  
 (USE 1 TRENCHES AT 80.21 L.F.)  
 TRENCH SPACING = 2D+W = ((2x3) + 3) = 9' USE 10'

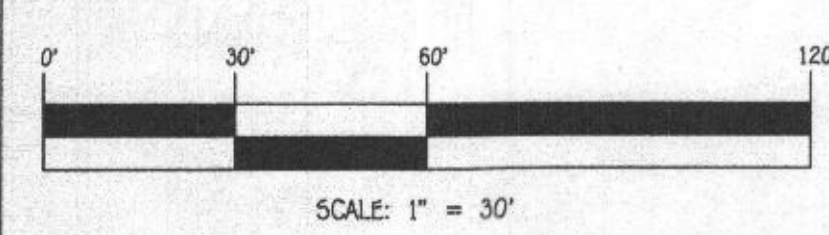
**1ST REPLACEMENT SYSTEM**  
 SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS (PERMIT FOR 4 BEDROOMS)  
 LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD  
 APPLICATION RATE = 0.6  
 EFFECTIVE SIDEWALL BEGINS AT 4 FEET  
 TRENCH DEPTH = 5.5 FEET  
 TRENCH WIDTH (W) = 3 FEET  
 EFFECTIVE DEPTH (D) = 3.5 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+(2x4.5)) = 0.417  
 TRENCH LENGTH = 1250 SF x 0.417 = 173.75 FEET  
 (USE 2 TRENCHES AT 86.88 L.F.)  
 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 = 1.2  
 EFFECTIVE SIDEWALL BEGINS AT 3.5 FEET  
 TRENCH DEPTH = 5.5 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+(2x4.5)) = 0.625  
 TRENCH LENGTH = 625 SF x 0.625 = 130.21 FEET  
 (USE 2 TRENCHES AT 65.11 L.F.)  
 TRENCH SPACING = 2D+W = ((2x3) + 3) = 9' USE 10'

**SEPTIC SYSTEM  
 INSTALLATION SITE PLAN  
 LOT 18  
 1023 FAIRLANE ROAD  
 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: JANUARY 9, 2018  
 SHEET 1 OF 1**

| ADDRESS CHART |                    |
|---------------|--------------------|
| LOT NUMBER    | STREET ADDRESS     |
| 18            | 1023 FAIRLANE ROAD |

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-15-0217 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.



**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING, CONSULTANTS & LAND SURVEYORS  
 CENTRAL SQUARE OFFICE PARK - 10276 BALTIMORE NATIONAL PIKE  
 ELLSWORTH CITY, MARYLAND 21046  
 (410) 461-2895

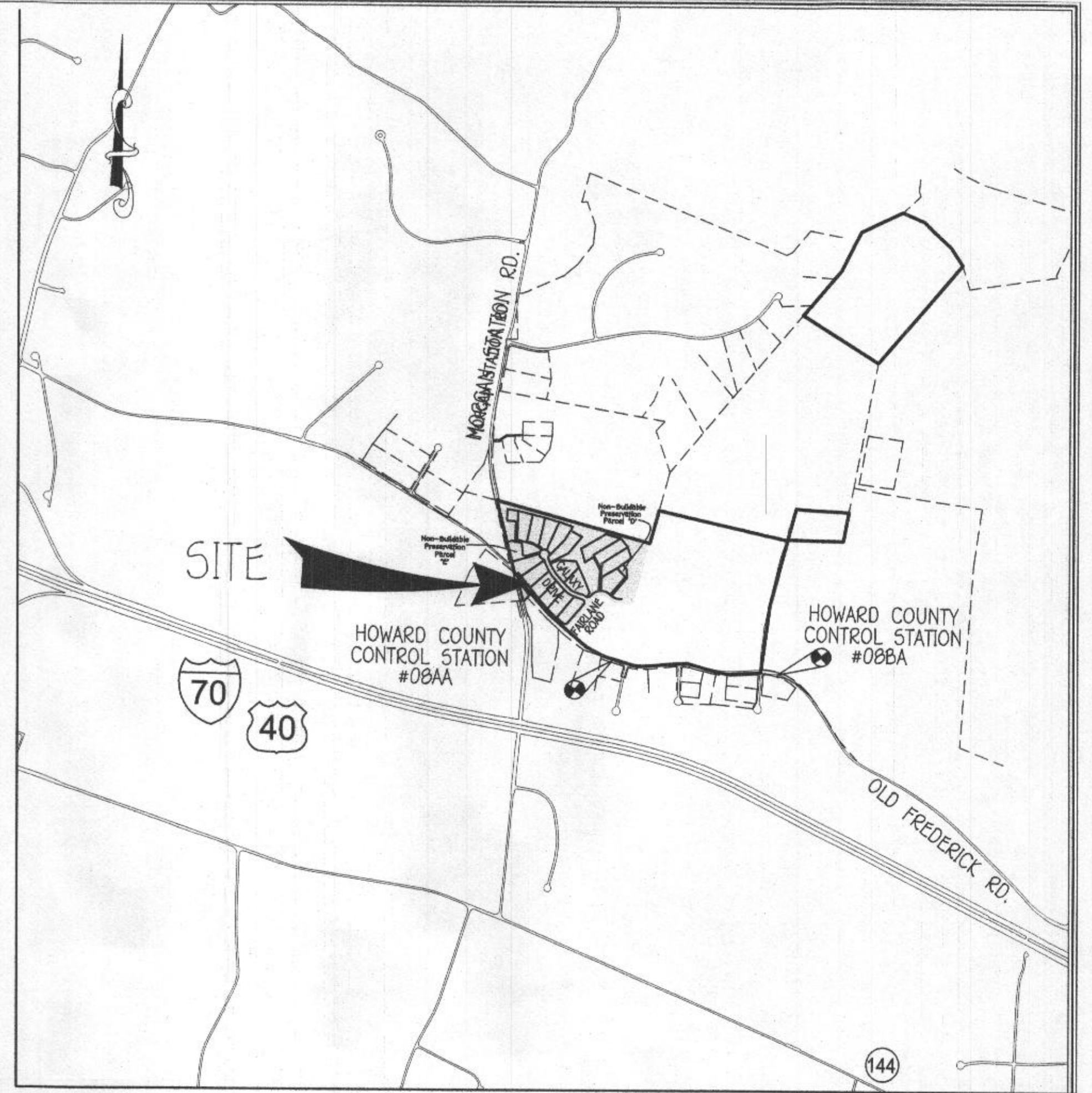
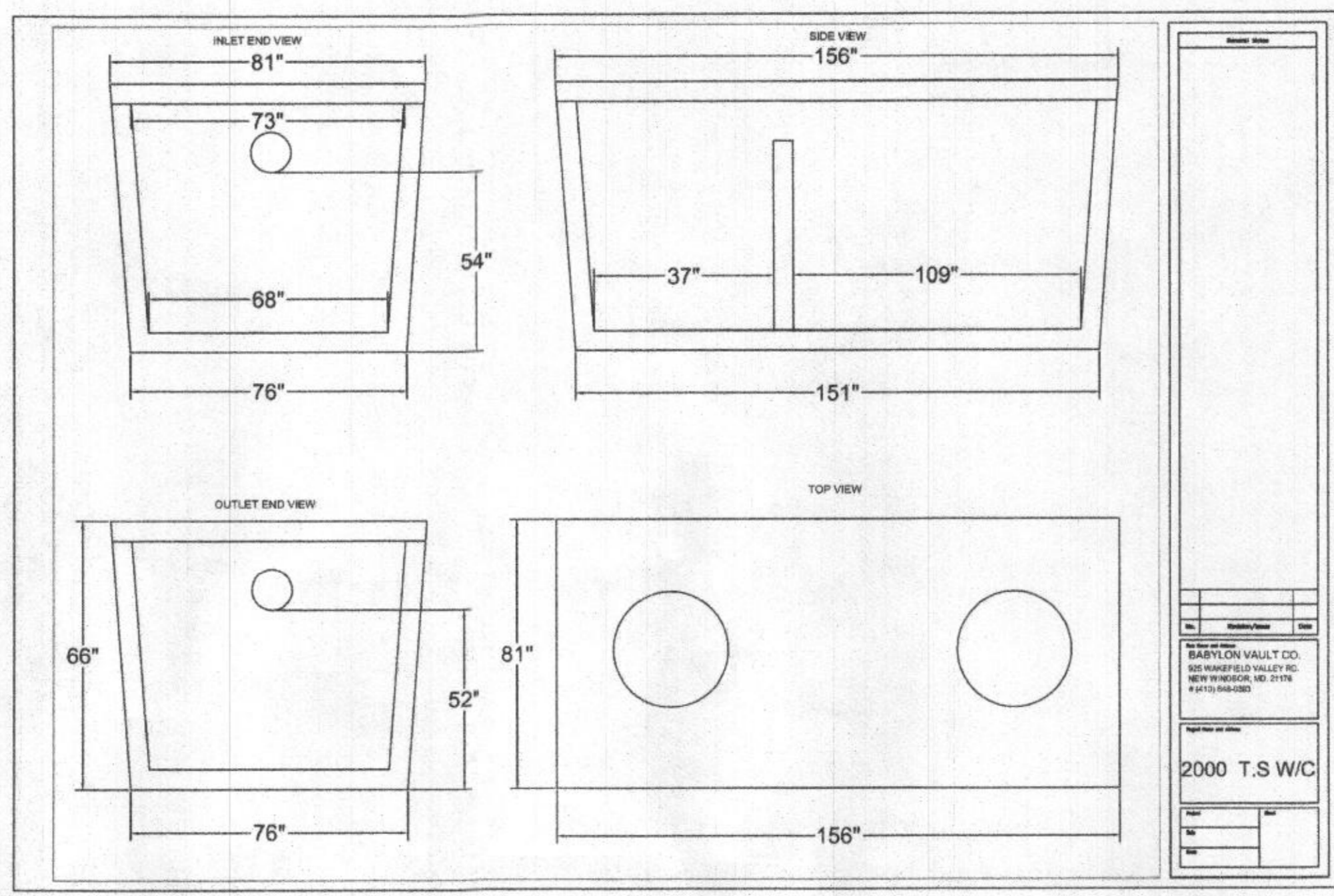
**OWNER/DEVELOPER**  
 NY HOMES  
 9720 PATENTWOOD DRIVE  
 COLUMBIA, MD 21046  
 410-379-9956



**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: 02/22/2019.

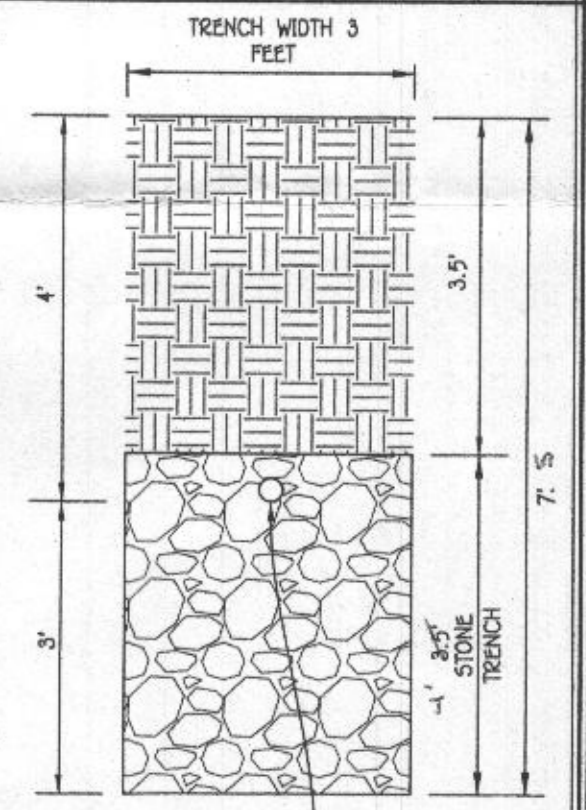
*Michael J. Vitucci*  
 Signature of Professional Engineer

1/9/18  
 DATE



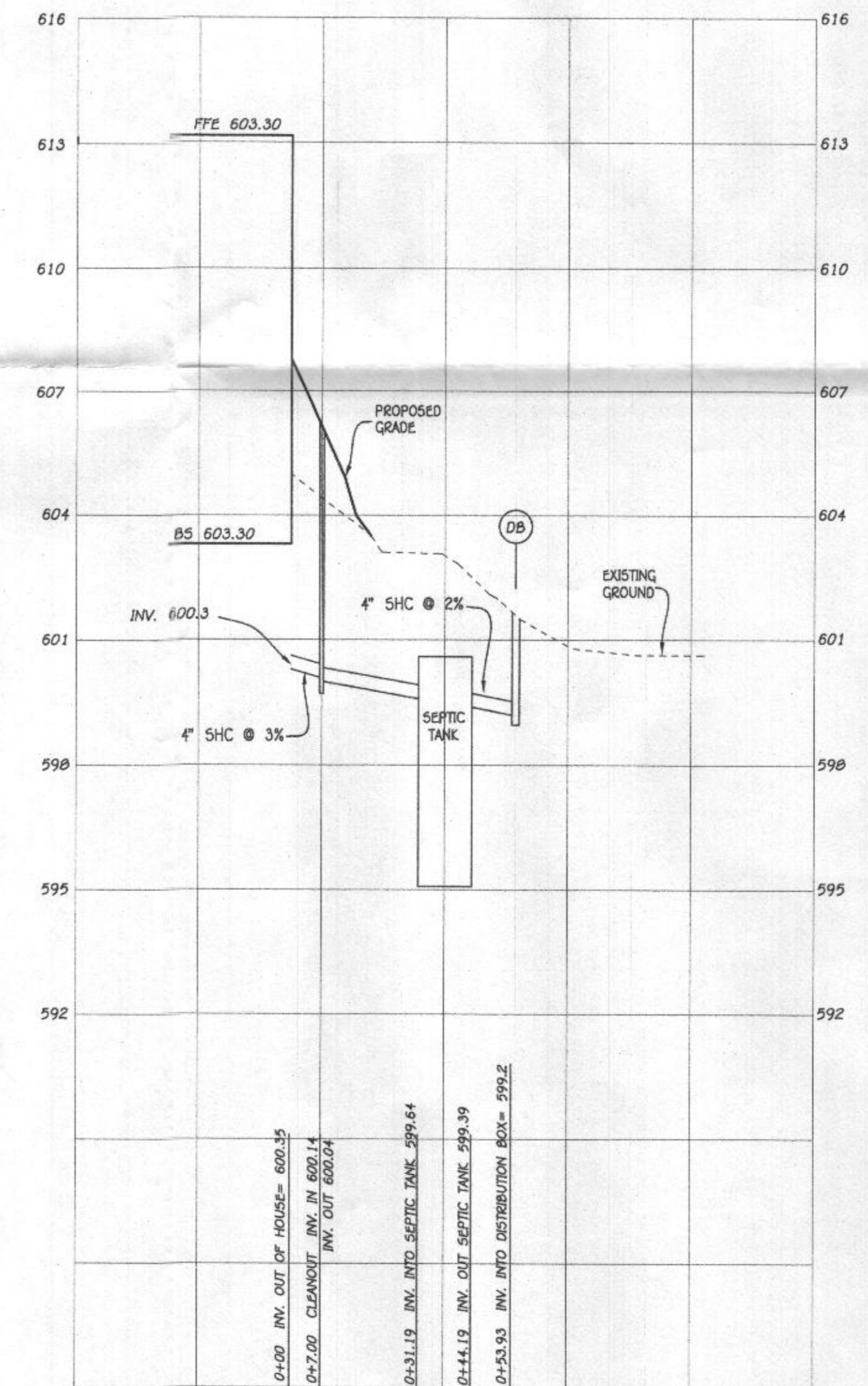
FFE 613.14  
 BSE 603.30  
 PROP. GROUND AT CLEANOUT #1 = 605.8  
 INV. INTO CLEANOUT = 600.1  
 INV. OUT OF CLEANOUT = 600.0  
 EX. GROUND AT SEPTIC TANK = 603.8  
 PROP. GRADE ABOVE SEPTIC TANK = 603.1  
 TOP OF SEPTIC TANK = 600.6  
 INV. INTO SEPTIC TANK = 599.6  
 INV. OUT OF SEPTIC TANK = 599.35  
 EX. GROUND AT DISTRIBUTION BOX = 602.1  
 INV. INTO DISTRIBUTION BOX = 599.2  
 INV. OUT OF DISTRIBUTION BOX = 599.1

**VICINITY MAP**  
 SCALE: 1" = 1200'



**TRENCH DATA:**  
**TRENCH 1:**  
 EX. GROUND ABOVE = 602.1  
 INV. IN = 599.1  
 BOTTOM TRENCH = 594.6  
**TRENCH 2:**  
 EX. GROUND ABOVE = 602.1  
 INV. IN = 599.1  
 BOTTOM TRENCH = 594.6

Approved Septic System Plan  
 Howard County Health Department  
 Hank Oswald 1/10/18  
 Signature Date



**SEPTIC PROFILE**  
 SCALE: 1" = 30'

**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 = 1.2  
 EFFECTIVE SIDEWALL BEGINS AT 3 FEET  
 TRENCH DEPTH = 7.5 FEET  
 TRENCH WIDTH (W) = 3 FEET  
 EFFECTIVE DEPTH (D) = 3 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+(2x4.5)) = 0.385  
 TRENCH LENGTH = 208.33 SF x 0.385 = 80.21 FEET  
 (USE 1 TRENCHES AT 80.21 L.F.)  
 TRENCH SPACING = 2D+W = ((2x3) + 3) = 9' 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 4 FEET  
 TRENCH DEPTH = 5.5 FEET  
 TRENCH WIDTH (W) = 3 FEET  
 EFFECTIVE DEPTH (D) = 3.5 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+(2x4.5)) = 0.417  
 TRENCH LENGTH = 1250 SF x 0.417 = 173.75 FEET  
 (USE 2 TRENCHES AT 86.88 L.F.)  
 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 = 1.2  
 EFFECTIVE SIDEWALL BEGINS AT 3.5 FEET  
 TRENCH DEPTH = 5.5 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+(2x4.5)) = 0.625  
 TRENCH LENGTH = 625 SF x 0.625 = 130.21 FEET  
 (USE 2 TRENCHES AT 65.11 L.F.)  
 TRENCH SPACING = 2D+W = ((2x3) + 3) = 9' USE 10'

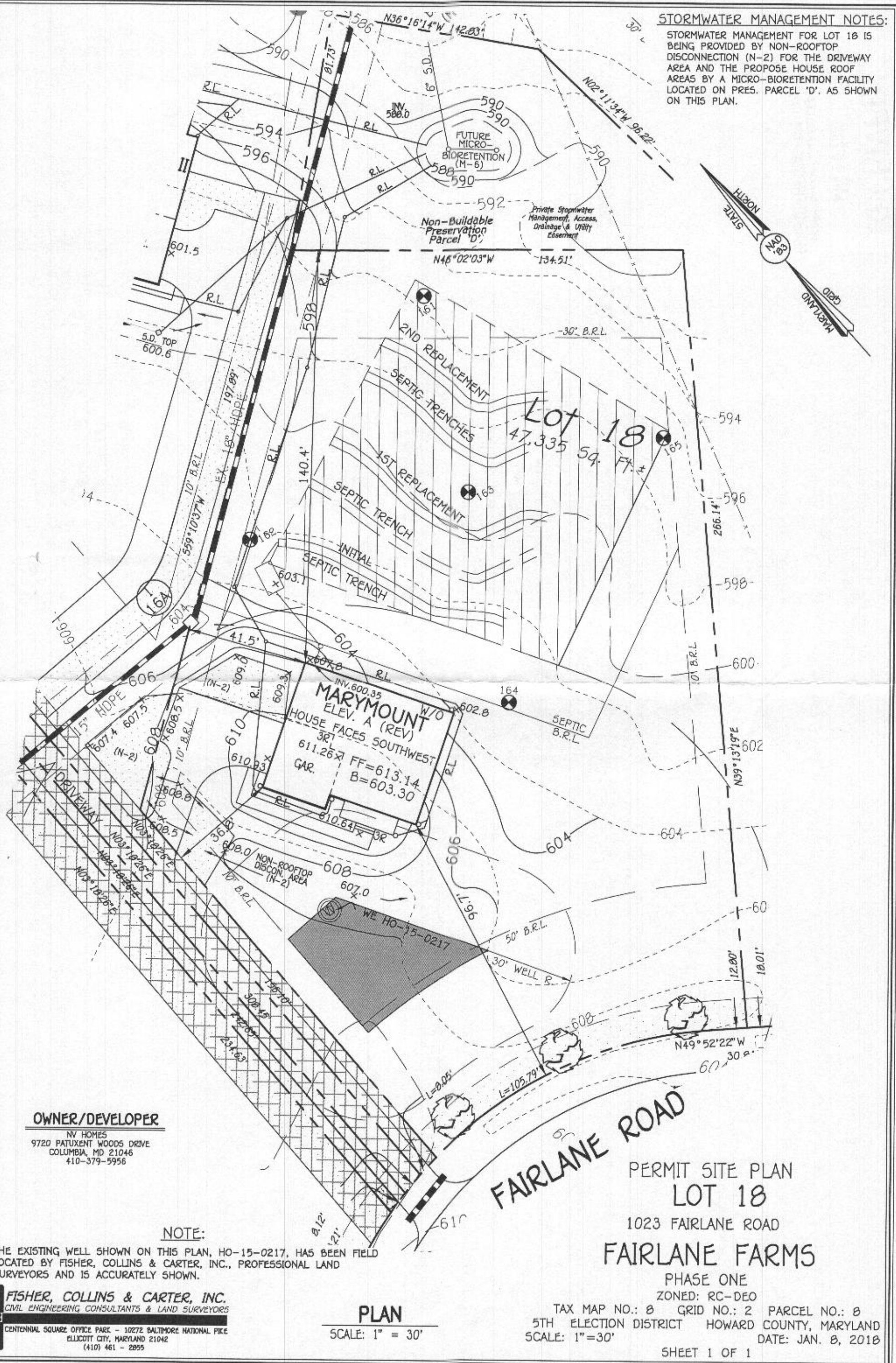
**SEPTIC SYSTEM INSTALLATION SITE PLAN**  
**LOT 18**  
 1023 FAIRLANE ROAD  
**FAIRLANE FARMS**  
 PHASE ONE  
 ZONED: RC-DEO

TAX MAP NO.: 8 GRID NO.: 2 PARCEL NO.: 8  
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 30' DATE: JANUARY 9, 2018  
 SHEET 1 OF 1

| ADDRESS CHART |                    |
|---------------|--------------------|
| LOT NUMBER    | STREET ADDRESS     |
| 18            | 1023 FAIRLANE ROAD |

**STORMWATER MANAGEMENT NOTES:**

STORMWATER MANAGEMENT FOR LOT 18 IS BEING PROVIDED BY NON-ROOFTOP DISCONNECTION (N-2) FOR THE DRIVEWAY AREA AND THE PROPOSE HOUSE ROOF AREAS BY A MICRO-BIORETENTION FACILITY LOCATED ON PRES. PARCEL 'D', AS SHOWN ON THIS PLAN.



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

**NOTE:**  
 THE EXISTING WELL SHOWN ON THIS PLAN, HO-15-0217, HAS BEEN FIELD LOCATED BY FISHER, COLLINS & CARTER, INC., PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21042  
 (410) 461 - 2955

**PLAN**  
 SCALE: 1" = 30'

**FAIRLANE ROAD**  
**PERMIT SITE PLAN**  
**LOT 18**  
 1023 FAIRLANE ROAD  
**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: JAN. 8, 2018  
 SHEET 1 OF 1

# Transmittal

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

|   |   |
|---|---|
| To: <b>Bureau of Environmental Health</b><br><b>8930 Stanford Blvd.</b><br><b>Columbia, Maryland 21046-4544</b> | Attn: <b>Hank</b><br>Fax:<br>Phone: <b>410-313-2640</b> |
|---|---|

|                            |     |
|----------------------------|-----|
| From: <b>Tony Fertitta</b> | CC: |
|----------------------------|-----|

|                                   |  |
|-----------------------------------|--|
| Re: <b>Fairlane Farms, Lot 18</b> | W.O.# <b>05106-3003</b>                      |
| Date: <b>Jan. 10, 2018</b>        | Pages: <b>0</b> 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<br><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 18, 1023 Fairlane Rd.

Provided here are 3 copies of a Septic Installation Site Plan for Lot 18, 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

---

## 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

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 18**

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

Date: **Jan. 10, 2018**

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 18, 1023 Fairlane Rd.**

Provided here are 3 copies of a Septic Installation Site Plan for Lot 18, 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

## **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.