



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: 04/02/2021

ONSITE SEWAGE DISPOSAL SYSTEM

P 568828

APPROVAL DATE: 05/07/2021

PERMIT: CONSTRUCTION

A

PROPERTY ADDRESS: 2650 W. Mullinix Mill Road; Mount Airy, Maryland 21771

SUBDIVISION: McAlister Property

LOT: 4

TAX ID:

04-342003

CONTRACTOR: South Carroll Backhoe

EMAIL:

CONTRACTOR ADDRESS:

PHONE: 410-875-4197

PROPERTY OWNER: Schmidt, Michael; McCoy Michelle

EMAIL:

OWNER ADDRESS: W Mullinix Mill Road

PHONE:

SEPTIC TANK SIZE (GALLONS): 2000 g

TANK MANUFACTURER:

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>115'</u>	INLET DEPTH: <u>2.5'</u>
	TRENCH WIDTH: <u>3'</u>	MAXIMUM BOTTOM DEPTH: <u>5'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10'</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>2'</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: Cabahug 001997

ISSUE DATE: 04/30/2021

EXPIRATION DATE: 04/30/2022

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.

NOT TO SCALE

* see attached
diagram

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH 3' INLET 2.5' BOTTOM 5'

NUMBER OF TRENCHES 2

TOTAL LENGTH 116 F

ABSORPTION AREA 348 SF + SIDE WALL

DISTRIBUTION BOX LEVEL SPEED

DISTRIBUTION BOX BAFFLE YES

DISTRIBUTION BOX PORT YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL YES

MANUFACTURER Babylon

CAPACITY 2000 GAL

SEAM LOC top

TANK LID DEPTH 2.5' - 3'

BAFFLES front 6" / back 4"

BAFFLE FILTER -

MANHOLE LOC front / back

6" PORT LOC -

WATERTIGHT TEST -

SLOTTED YES

DATE ON LID 3/10/21

PUMP/SEPTIC TANK LEVEL -

MANUFACTURER -

CAPACITY - GAL

SEAM LOC -

TANK LID DEPTH -

BAFFLES -

BAFFLE FILTER -

MANHOLE LOC -

6" PORT LOC -

WATERTIGHT TEST -

SLOTTED -

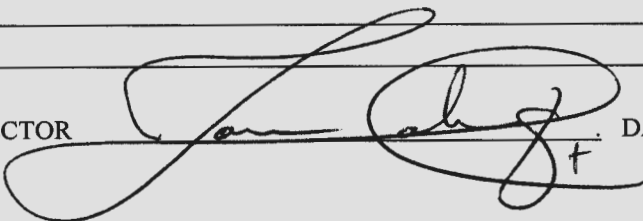
DATE ON LID -

PRE-CONSTRUCTION:

5/5/21 Staked out 2x58' long trenches according to plan. Septic sleeve marked on foundation, good a. out of fall to tank location. (ST)

INSTALLATION: 5/6/21 - STC made, ST in place, d box in place, working on trenches, fls for trenches, ok to continue. (RD) 05/07/2021 TRENCHES COMPLETE. D Box LEVELED w/ SPEED LEVELS. P

FINAL INSPECTOR

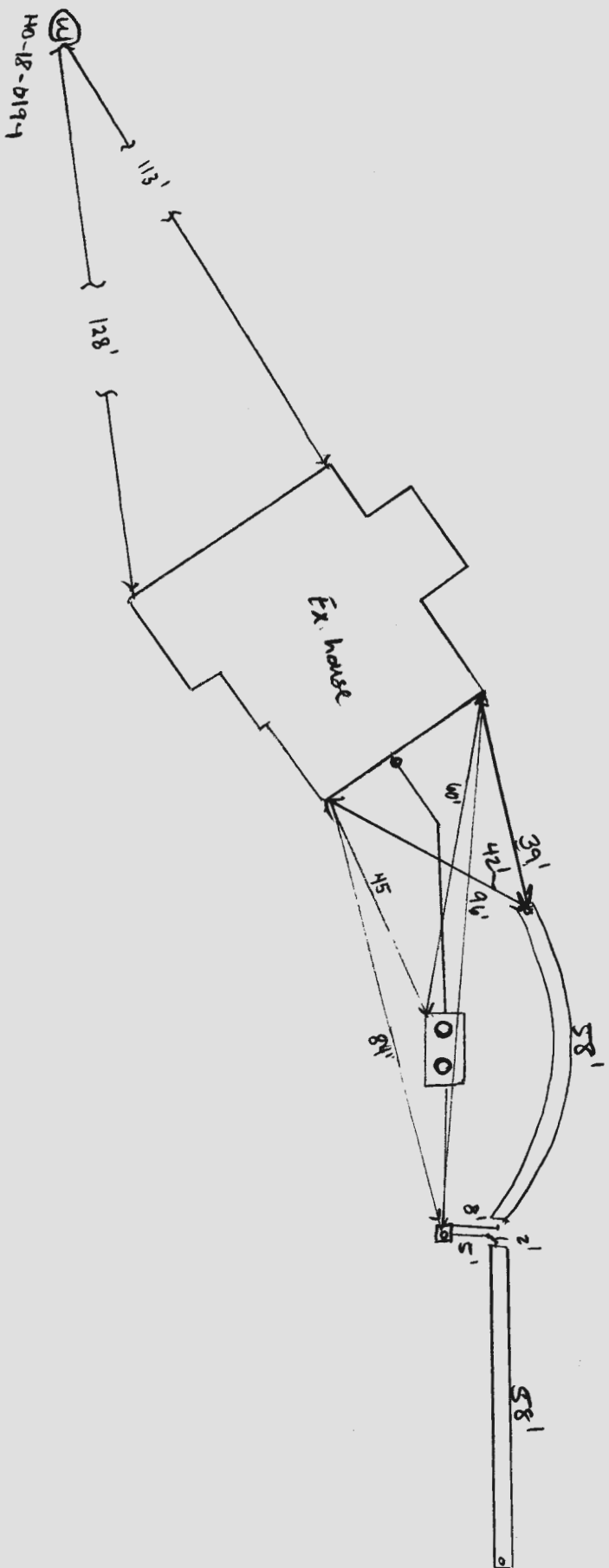


DATE OF APPROVAL

05/07/2021

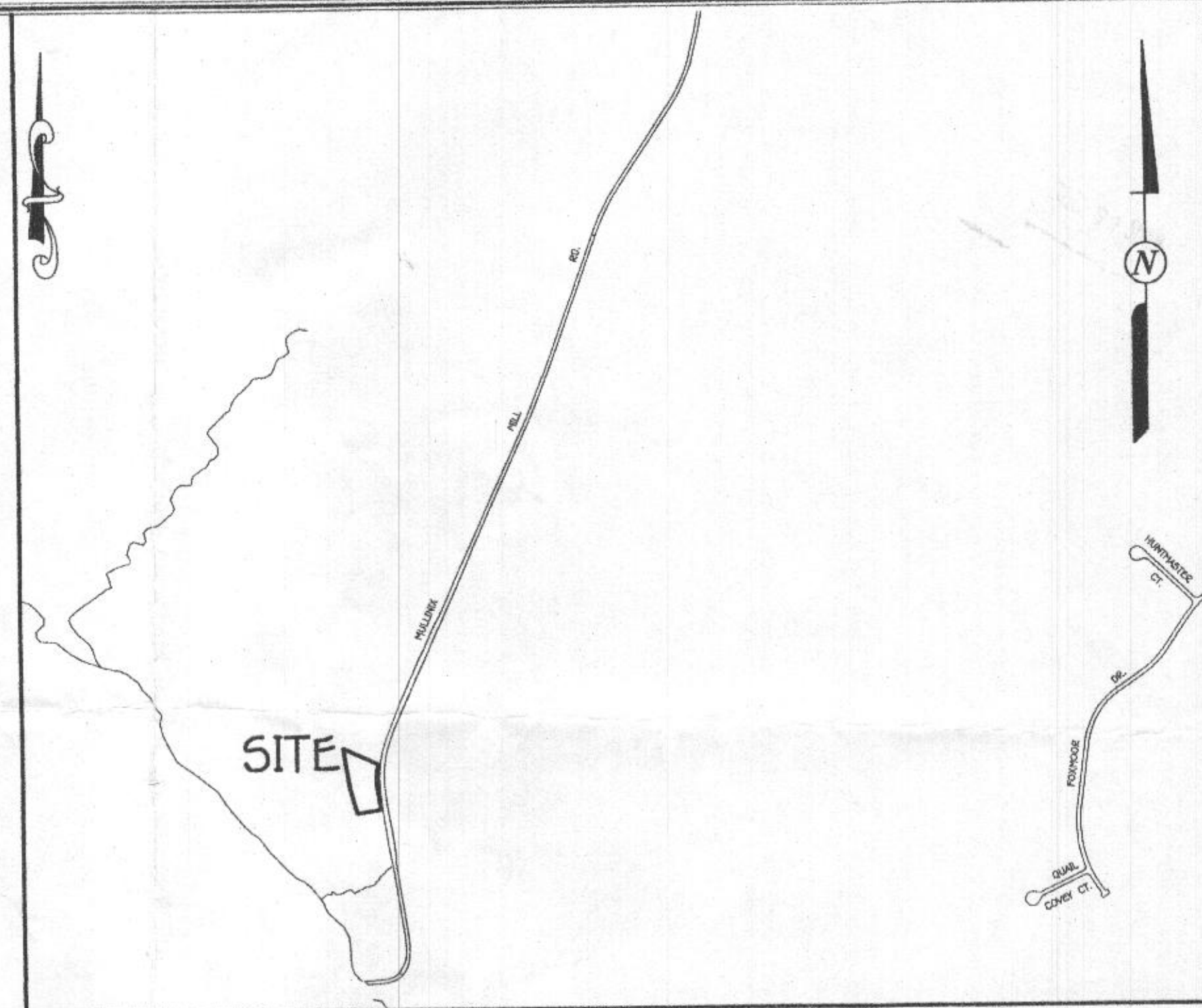
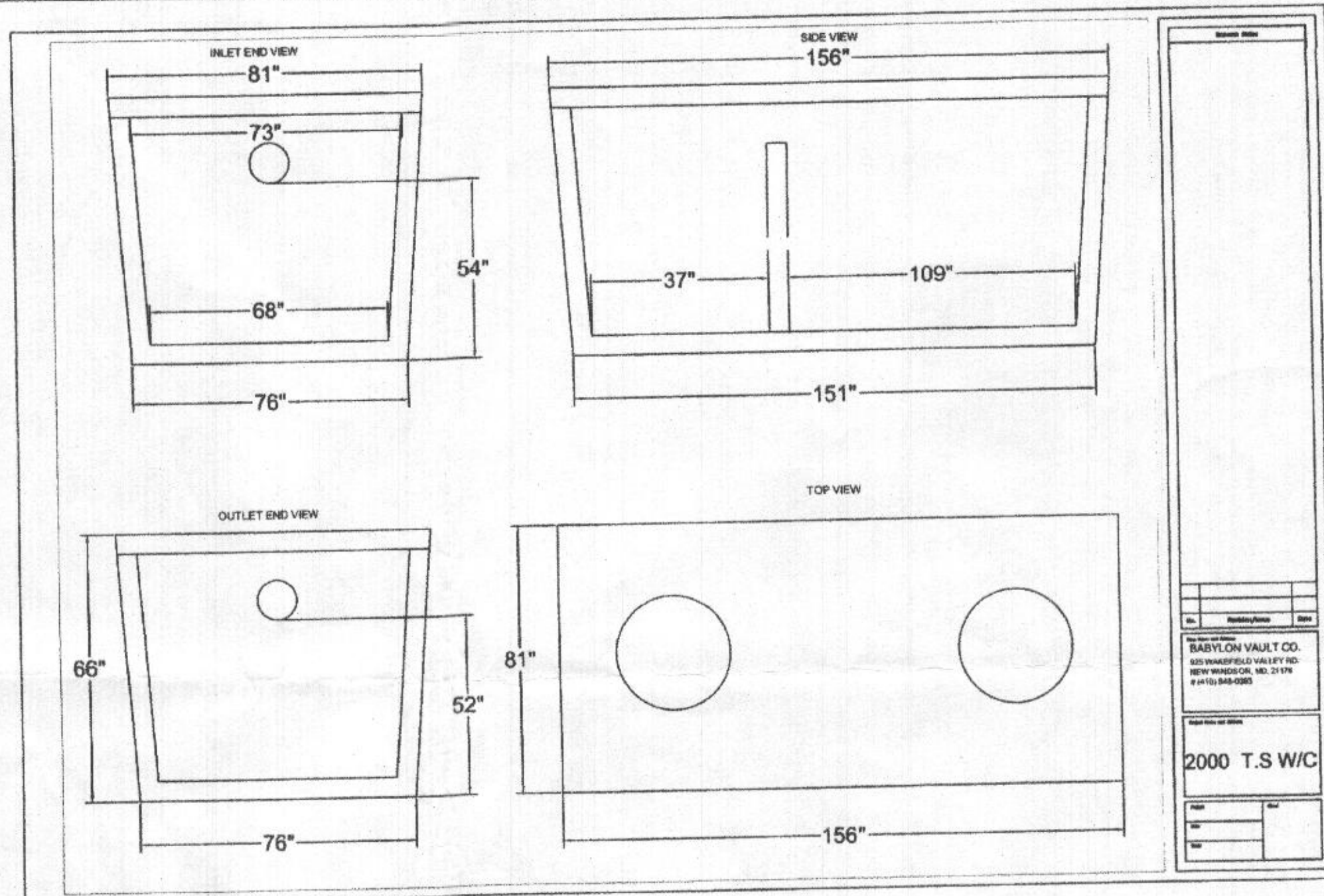
2650 W. Mullinix Mill Rd

NOT TO SCALE 1" \approx 30'

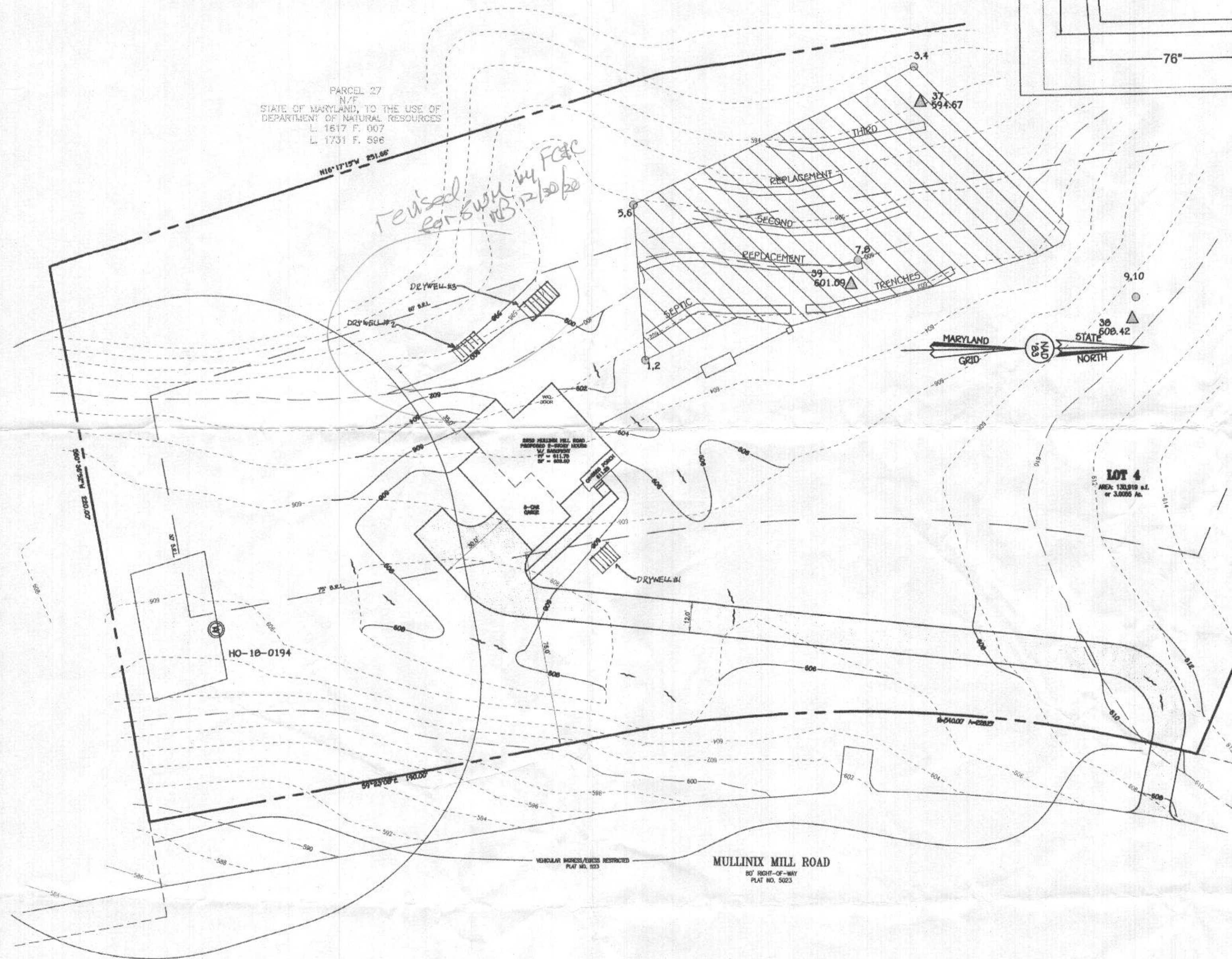


Mullinix Mill Rd

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-10-0194 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.

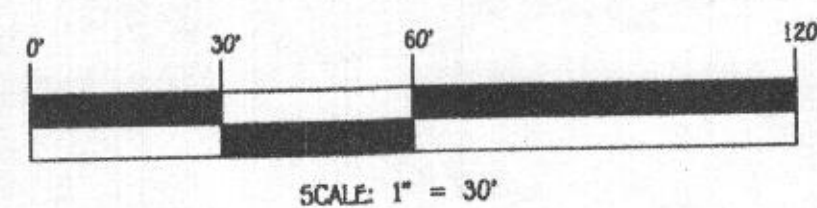


VICINITY MAP
SCALE: 1" = 1200'



PLAN

SCALE: 1" = 30'



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10232 BALDWIN NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461-2205

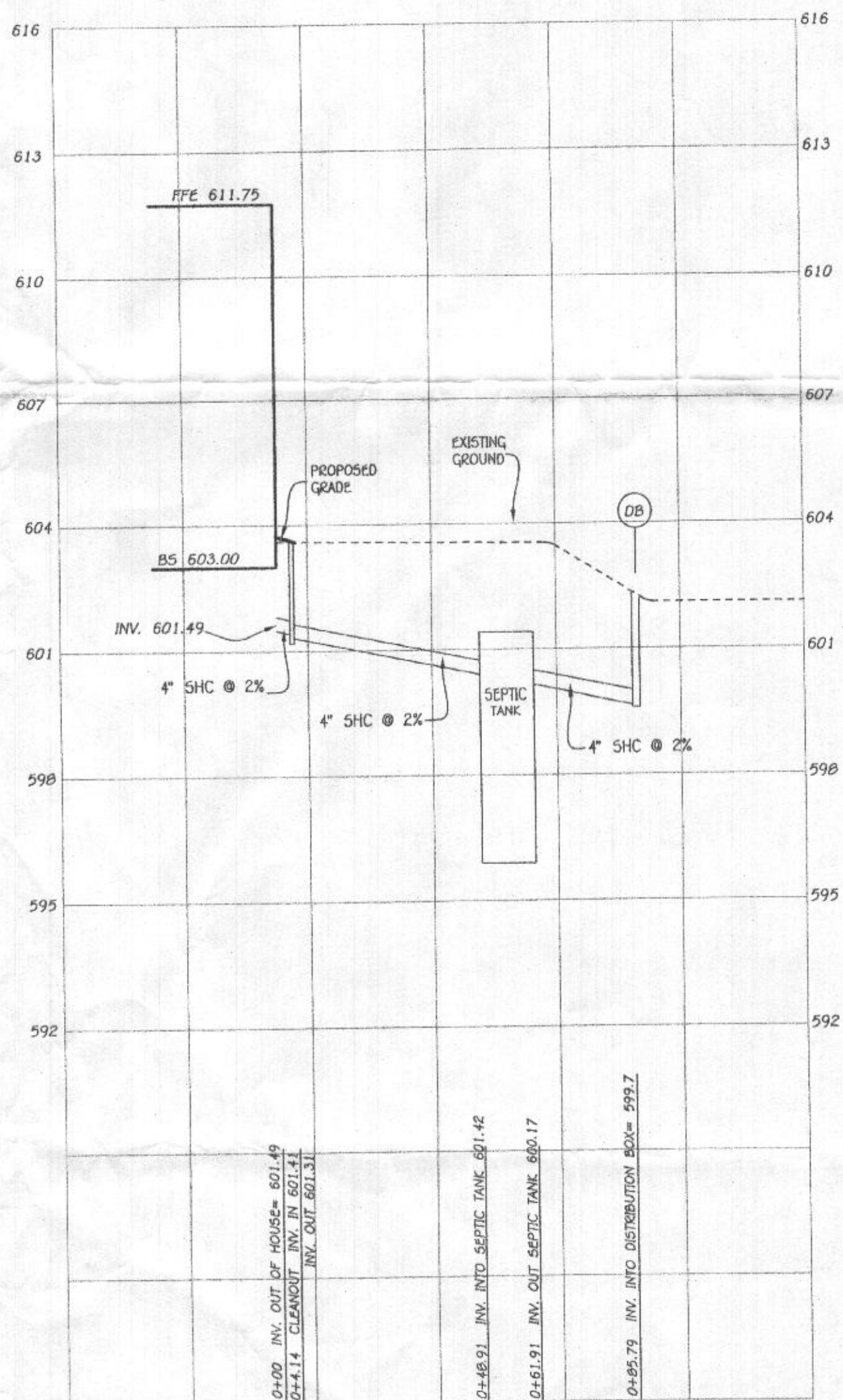
OWNER/DEVELOPER
Mike Schmidt
11030 Resort Road
Unit 313
Ellicott City, MD 21104
240-841-1295



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. 29243, EXPIRATION DATE: 01/22/2021.

Signature of Professional Engineer
1/23/2020
DATE



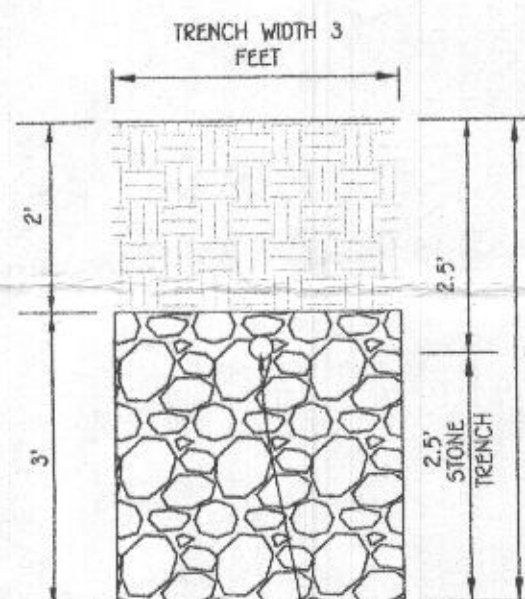
SEPTIC PROFILE

SCALE: 1" = 30'

FFE 610.75
BSE 602.00
INV. OUT OF HOUSE = 601.49
PROP. GROUND AT CLEANOUT #1 = 604.00
INV. INTO CLEANOUT = 601.41
INV. OUT OF CLEANOUT = 601.31
EX. GROUND AT SEPTIC TANK = 603.8
PROP. GRADE ABOVE SEPTIC TANK = 603.8
TOP OF SEPTIC TANK = 601.42
INV. INTO SEPTIC TANK = 600.42
INV. OUT OF SEPTIC TANK = 600.17
EX. GROUND AT DISTRIBUTION BOX = 602.2
INV. INTO DISTRIBUTION BOX = 599.7
EX. GROUND ABOVE = 599.6
INV. OUT OF DISTRIBUTION BOX = 599.6

TRENCH DATA:

TRENCH 1:
EX. GROUND ABOVE = 602.0
INV. IN = 600.1
BOTTOM TRENCH = 597.0
TRENCH 2:
EX. GROUND ABOVE = 602.0
INV. IN = 600.1
BOTTOM TRENCH = 597.0



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 2 FEET
TRENCH DEPTH = 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+(2x2.5)) = 0.55
TRENCH LENGTH = 208.33 SF x 0.55 = 114.58 FEET
(USE 2 TRENCHES AT 57.29 L.F.)
TRENCH SPACING = 2D+W = ((2x2.5) + 3) = 9' 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 = 0.8
EFFECTIVE SIDEWALL BEGINS AT 2.5 FEET
TRENCH DEPTH = 5 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 2.5 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+(2x2.5)) = 0.55
TRENCH LENGTH = 937.5 SF x 0.55 = 515.62 FEET
(USE 2 TRENCHES AT 257.81 L.F.)
TRENCH SPACING = 2D+W = ((2x2.5) + 3) = 8' 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 = 1.2
EFFECTIVE SIDEWALL BEGINS AT 2.5 FEET
TRENCH DEPTH = 5 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 2.5 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+(2x2.5)) = 0.55
TRENCH LENGTH = 625 SF x 0.55 = 343.75 FEET
(USE 2 TRENCHES AT 171.88 L.F.)
TRENCH SPACING = 2D+W = ((2x2.5) + 3) = 8' USE 10'

SEPTIC SYSTEM
INSTALLATION SITE PLAN

LOT 4

2650 W. MULLINIX MILL ROAD
MCALISTER PROPERTY

TAX MAP NO.: 12 GRID NO.: 16 PARCEL NO.: 72
4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: SEPTEMBER 5, 2020

SHEET 1 OF 1

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
4	2350 W. MULLINIX MILL ROAD