



**Howard County
Health Department**

Bureau of Environmental Health
8930 Stanford Boulevard, Columbia, MD 21045
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www.hchealth.org
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Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 11-7-24 **ONSITE SEWAGE DISPOSAL SYSTEM** P 587859

APPROVAL DATE: 1/7/25 **PERMIT: NEW CONSTRUCTION** A _____

PROPERTY ADDRESS: 425 Watersville Road

SUBDIVISION: Romiti Property LOT: Par F TAX ID: 04-370791

CONTRACTOR: Sems Creek Construction EMAIL: _____

CONTRACTOR ADDRESS: 2810 Sems Creek Rd, New Windsor, MD 21776 PHONE: 413-821-4932

PROPERTY OWNER: Robert Romiti EMAIL: _____

OWNER ADDRESS: 345 Watersville Road, Woodine, MD 21797 PHONE: _____

SEPTIC TANK SIZE: 1500 PUMP SIZE: N/A PUMP TANK CAPACITY: N/A

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 2 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>63</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4</u>
LOCATION:	SYSTEM TO BE STAKED BY DESIGNER AND VERIFIED BY APPROVING AUTHORITY DURING PRE-CONSTRUCTION INSPECTION.	
NOTES:	Install per approved plan. Entire SDA should be staked to show boundary to forest conservation. (see F-16-106)	

ISSUED BY: Melanie Esterbaugh ISSUE DATE: 11/7/24 EXPIRATION DATE: 11/7/25

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR REGISTERED WITH THE STATE OF MD ON-SITE WASTEWATER PROFESSIONALS BOARD: CONFIRMED
- 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 SEPTIC 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 N/A
- NOTE: THE HCHD DOES NOT WARRANT ANY SYSTEM AND CANNOT GUARANTEE THE PERFORMANCE OF THIS SYSTEM AS DESIGNED. BY ACCEPTING THIS PERMIT, THE OWNER AND/OR APPLICANT ACKNOWLEDGE THAT THE SPECIFICATIONS DETAILED IN THIS DESIGN ARE ONE POSSIBLE OPTION AND THAT THE HCHD WILL REVIEW OTHER PROPOSALS. YOU HAVE THE OPTION TO SEEK THE ADVICE OF A QUALIFIED DESIGN CONSULTANT OR PROFESSIONAL ENGINEER FOR FURTHER GUIDANCE.
- NOTE: AN INDIVIDUAL CERTIFIED BY MDE AND THE MANUFACTURER FOR BAT INSTALLATION MUST BE PRESENT AT ALL TIMES DURING BAT INSTALLATION.
- 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.**



5
 Mo-95
 -1719

RESERVATION

425 Waterville Rd.

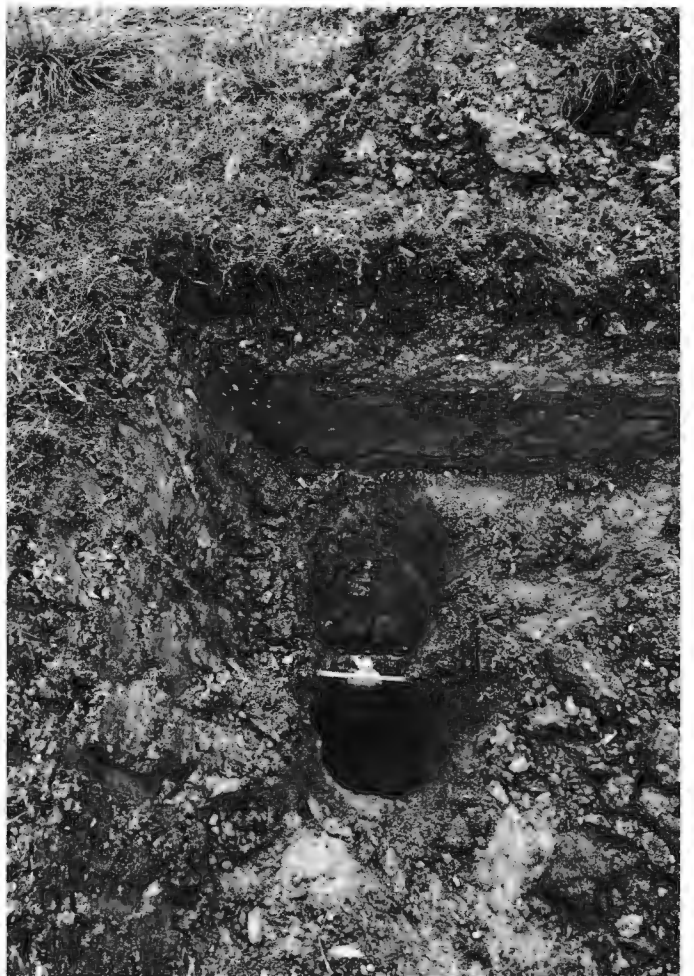


12/19/2024 Well Line at property was installed without the Health Dept.'s approval. Sam's Creek dug 10 holes along the line to verify Well Line depth. Line was 3ft below grade.

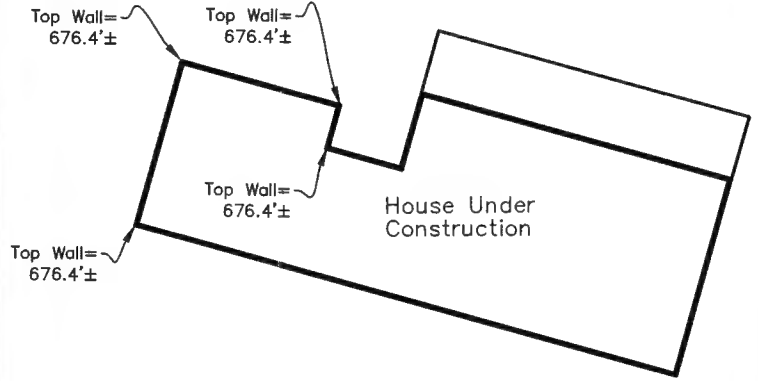
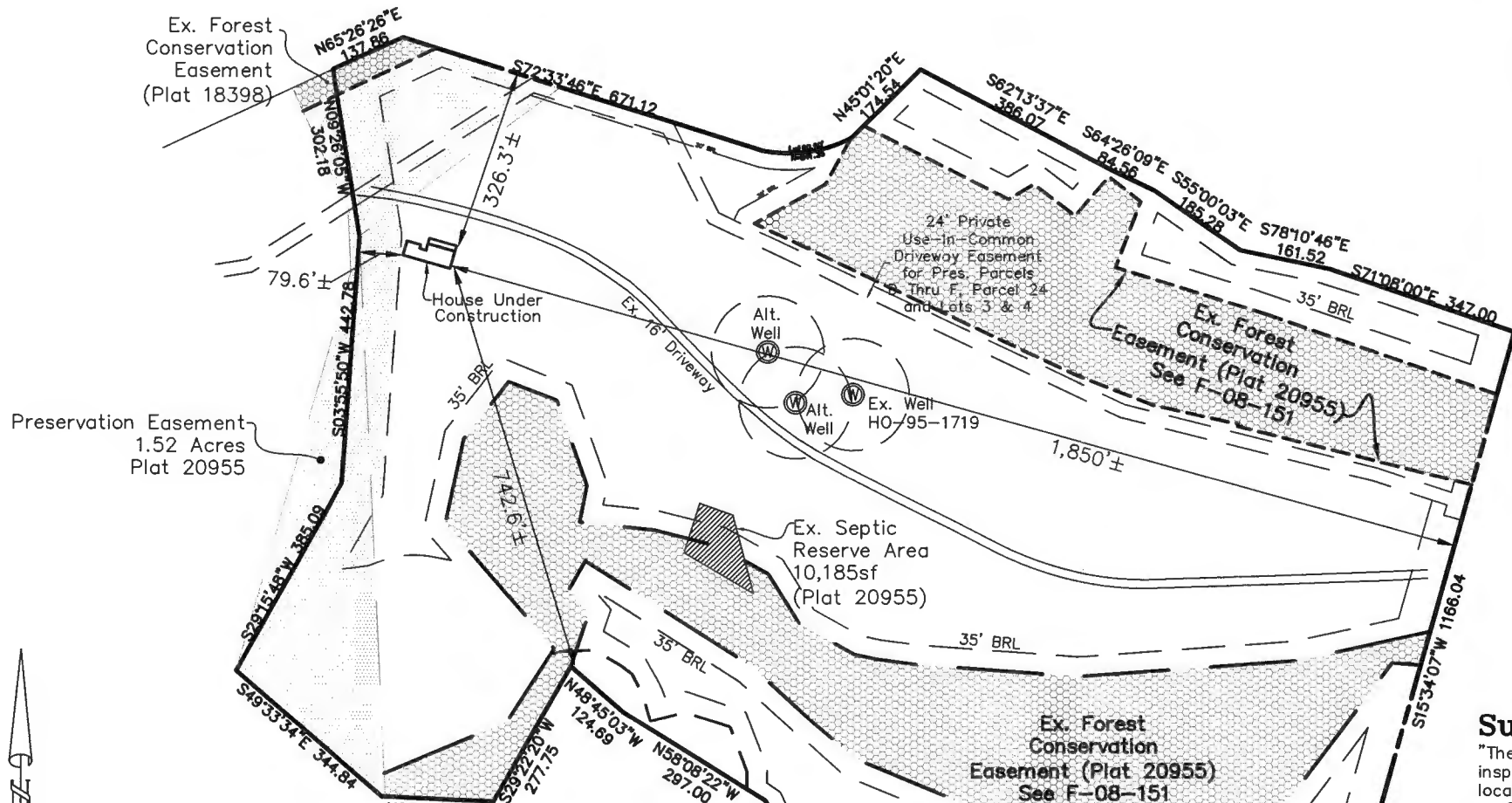
~~Well line was installed~~

Well line was boded and backfilled with clean dirt near house. Contractor says they added about 2' of fill and I verified. From grade to 2.5'/3' down is very rocky. (MB)

}
near the house.







Foundation Inset
(Scale: 1"=30')



Surveyor's Certificate

"The information shown hereon has been based upon the results of a field inspection pursuant to the deed or plat of record. I hereby certify that this location survey was prepared or approved by me, and I am a duly licensed

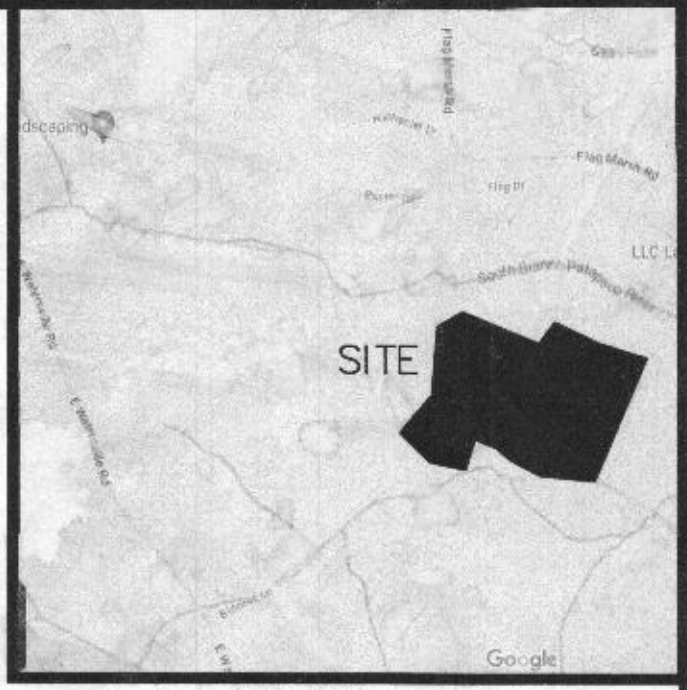
SOILS DATA TABLE

SYMBOL	SOIL	HYDRIC	K-FACTOR	ERODIBLE	GROUP
OcC	Coagan Loam, 8%-15% Slopes	NO	0.37	YES	B
McD	Manor Loam, 15%-25% Slopes	NO	0.28	YES	C/D
GgB	Glenville silt loam, 5%-8% Slopes	NO	0.24	NO	B
BtF	Brinklow-Blacktown Chan. Loams	NO	0.24	YES	C
Cc	Calopus & Hatboro Silt Loams	NO	0.37	NO	C

SOILS INFORMATION TAKEN FROM USDA WEB SOIL SURVEY WEBSITE
 NOTE: HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15% OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 WITH A SLOPE GREATER THAN 5 PERCENT.

GENERAL NOTES

- 1) THIS PROPERTY IS ZONED RC-DEO.
- 2) THE PROPERTY BOUNDARY SHOWN IS BASED ON CURRENT PLAT AND HOWARD COUNTY GIS DATA.
- 3) DEED REFERENCE: LIBER 18974 FOLIO 372.
- 4) THE EXISTING TOPOGRAPHY ONSITE IS BASED ON A FIELD RUN SURVEY CONDUCTED BY JNM ENGINEERING IN JULY, 2023. TOPOGRAPHY OUTSIDE OF THE DISTURBED AREA IS BASED ON HOWARD COUNTY GIS.
- 5) ANY CHANGE TO THE SEWERAGE DISPOSAL AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- 6) ADJUSTMENTS TO THE SEPTIC AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
- 7) SOIL TYPES SHOWN ON THIS PLAN ARE FROM THE USDA WEB SOIL SURVEY.
- 8) THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- 9) ALL EXISTING WELLS AND SEWERAGE DISPOSAL AREAS AND COMPONENTS WITHIN 100'-FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING/PROPOSED WELLS 200' DOWN GRADIENT FROM EXISTING OR PROPOSED SEPTIC SYSTEMS HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
- 10) ALL BUILDING SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
- 11) THIS LOT WAS CREATED BY PLAT 20955.
- 12) 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.
- 13) THE MAXIMUM EARTH COVER OVER THE SEPTIC TANK IS 3'-FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- 14) THE WELL TAG 'HO-95-1719' HAS BEEN FIELD LOCATED AND ACCURATELY SHOWN.



DATE	12/23
PROJECT	23-0725
ILLUSTRATION	JWW
ENGINEERING	NA
APPROVAL	JWW
SCALE	1" = 100'

ZONING DATA

ZONING: RC-DEO
 MIN. LOT AREA = 50,000 SQ FT
 MIN. LOT WIDTH AT R/W = 100 FT
 MIN. LOT WIDTH AT B.R.L. = 100 FT
 FRONT B.R.L. = 50 FT
 REAR B.R.L. = 30 FT
 SIDE B.R.L. = 10 FT

LEGEND

	EX. PROP. LINE
	EX. FENCE
	SUBJECT PROP. BOUNDARY
	SOIL BOUNDARY
	EX. 2' CONTOUR
	EX. 10' CONTOUR
	EX. WELL
	BUILDING RESTRICTION LINE
	EX. SPOT ELEVATION
	FAILED PERC TEST
	PASSED PERC TEST
	EX SEWAGE DISPOSAL AREA
	PROP. ALTERNATE WELL LOCATION

Approved Septic System Plan
 Howard County Health Department
 Signature: *[Signature]* Date: 4/4/2024

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 www.health.org
 Facebook: www.facebook.com/hcohealth
 Twitter: HowardSolHealthDep

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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 425/435 Watersville

Subdivision: Romiti Property Lot: Preservation Parcel C

251 B	Initial system:	Application rate: 0.8	Effective area beginning depth: 4'	Bottom maximum depth: 7'
190 A	1" Replacement:	Application rate: 0.8	Effective area beginning depth: 3'	Bottom maximum depth: 7'
190 A	2" Replacement:	Application rate: 1.2	Effective area beginning depth: 3'	Bottom maximum depth: 7'

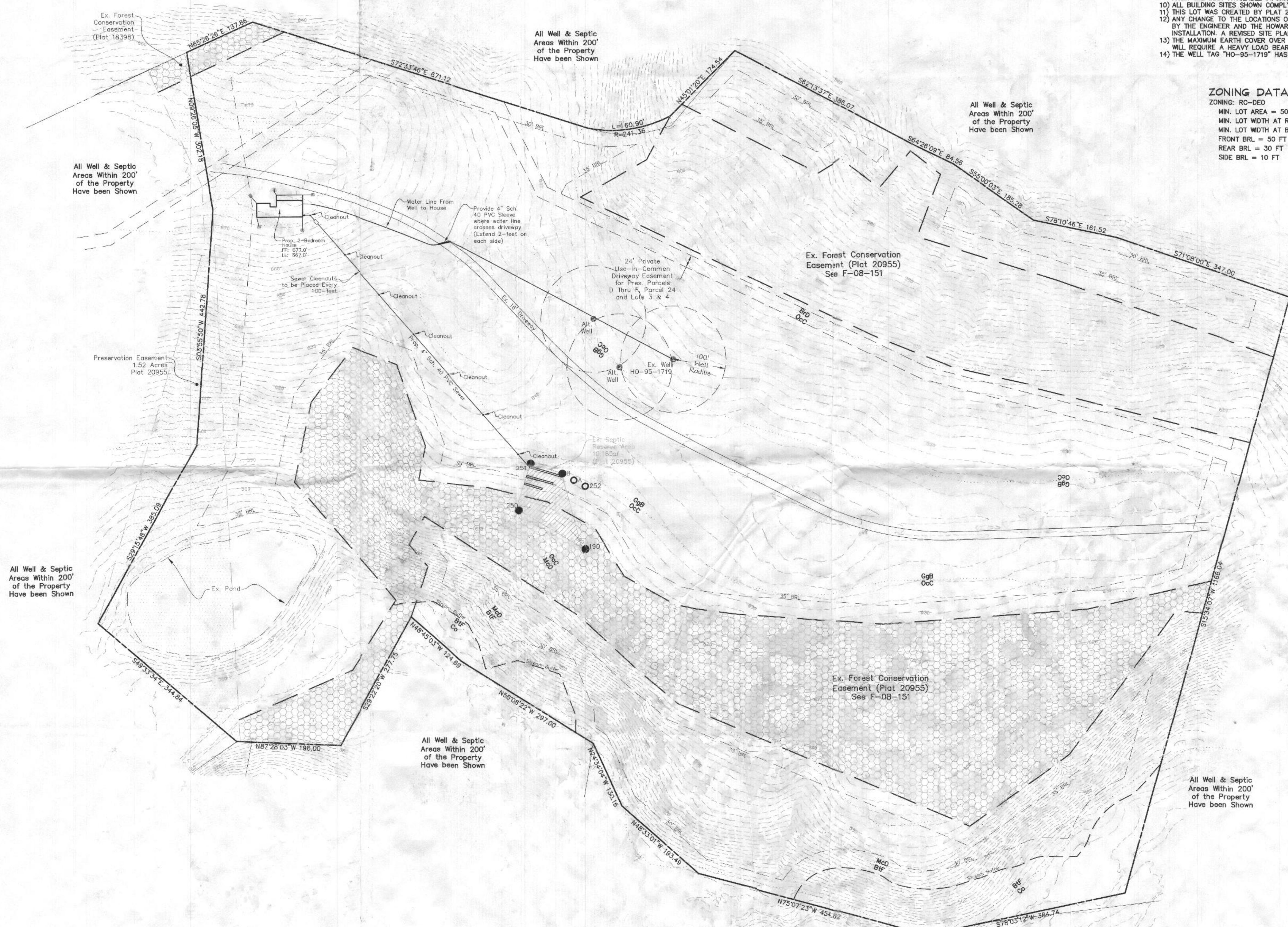
Design Flow = 150 gallons per day per bedroom
 Design flow x application rate = square footage of drainfield required
 Linear length of trench required = drainfield square footage x sidewall reduction percentage ÷ trench width

Standard design requirements:

- Trenches must be located to provide room for 3 systems in the disposal area
- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Tank and trenches must be placed as shallow as possible while maintaining 2% fall in pipe from house and at least 18" cover over trenches. If 2% fall from house is not possible, the minimum allowable fall is 18".
- Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is 2D + W up to a maximum spacing of 38'.
- Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
- Maximum trench length is 100'
- Maximum pipe depth is 4'

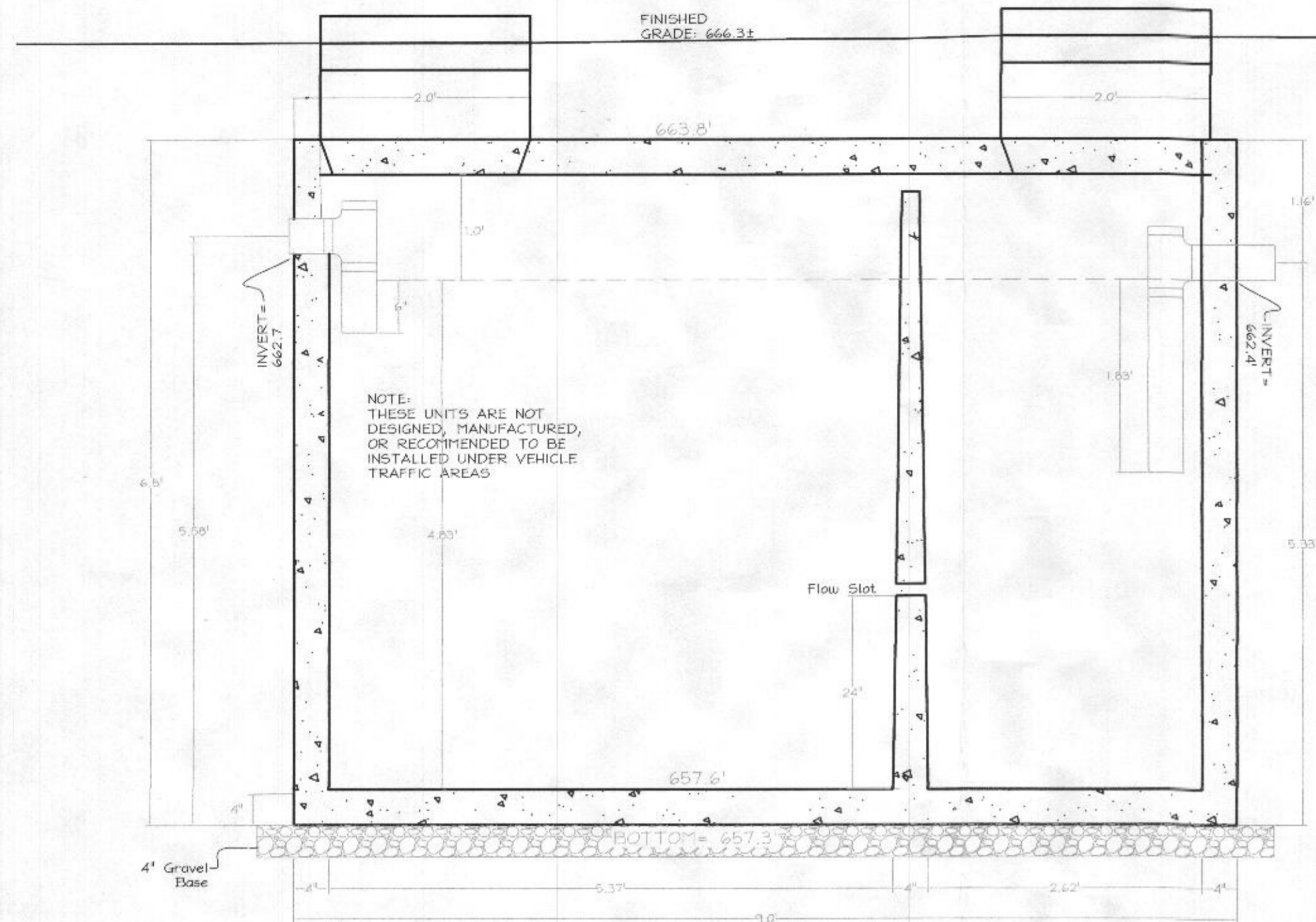
Additional requirements: *Keep Trenches West as possible within SDA.*

Approved: *RZF* Date: 2/15/2023

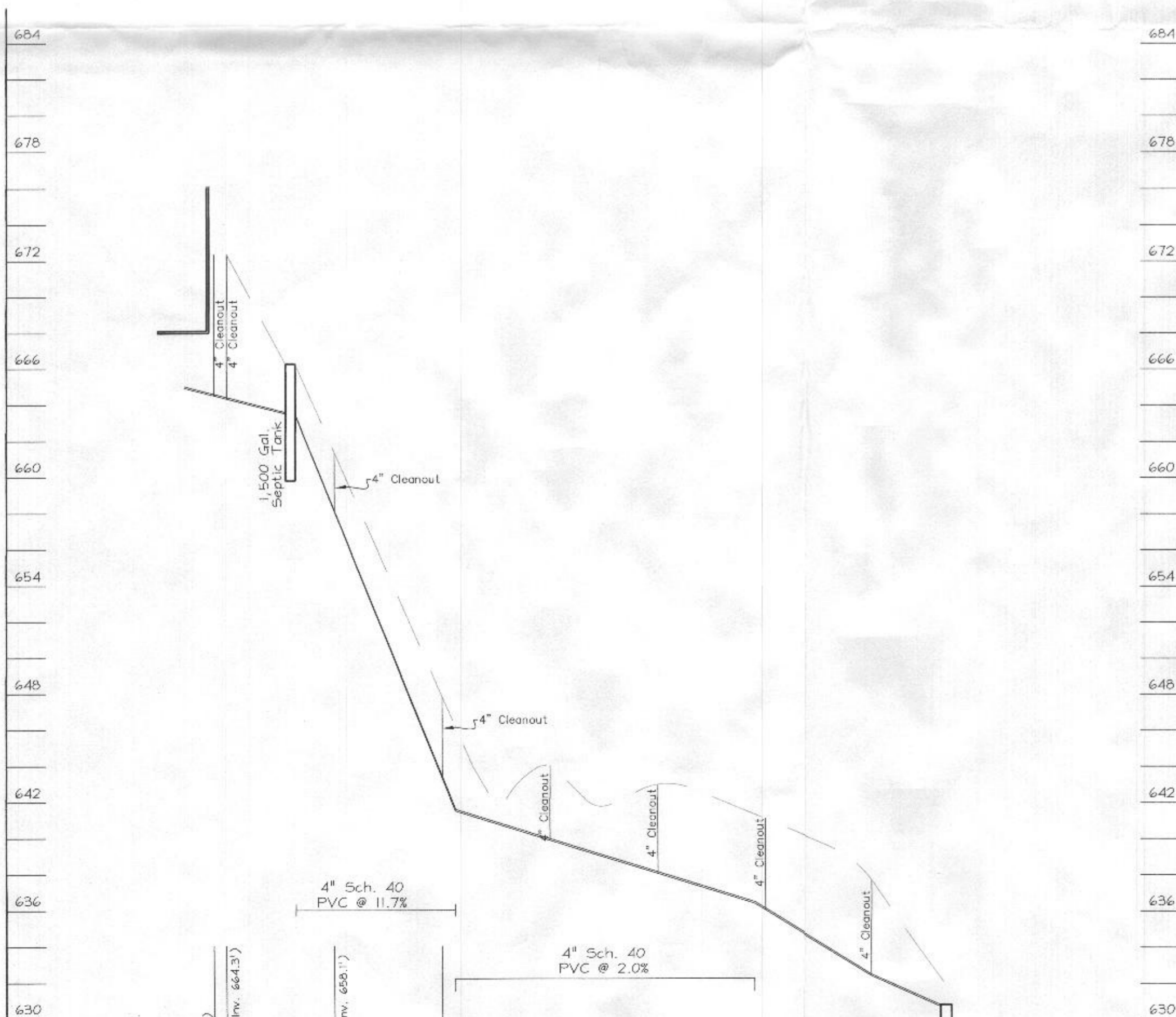


ROMITI PROPERTY
 TAX MAP 2, GRID 15, PRES. PARCEL F, 59,0066 ACRES
 4TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
OSDS PLAN

JNM ENGINEERING, LLC
 ENGINEERING, SURVEYING, LAND PLANNING,
 ENVIRONMENTAL, ARBORICULTURE, LEED PROFESSIONALS
 ONE EASY HOLLOW CIRCLE, MOUNT AIRY, MD 21771
 514-2808, JNMENGINEERINGLLC.COM



PROP. SEPTIC TANK
 C.R. SEMLER INC. 1,500 GALLON, TOP SEAM, TWO-COMPARTMENT SEPTIC TANK OR APPROVED EQUIVALENT
 PROFILE VIEW (N.T.S.)



PARCEL C

SOIL PROFILE A

0' Topsoil

8" red brown silty clay loam

2.5' red brown silty loam

less than 5% Saprolite

261

5' Topsoil

red brown silty clay loam

red brown silty loam

less than 5% Saprolite

12' 252

0' red brown channely sandy loam

5' SS=65% Saprolite shale red brown silty loam

6'

SOIL PROFILE B

0' Topsoil

8" red brown silty clay loam

2.5' red brown silty loam

10-15% Saprolite

11'

OPEN FIELD

INITIATE NORTH - NAME ADJOINING ROADWAY AS BASELINE
 NOT TO SCALE

DATE	TEST NO.	DEPTH	PRE-WET START	PRE-WET STOP	TEST - 1" DROP START	TEST - 1" DROP STOP	TIME
7-7-00	250	11'V	(SEE SOIL PROFILE)		(SEE SOIL PROFILE)		OK
	251	12'V	(SEE SOIL PROFILE)		(SEE SOIL PROFILE)		OK
	252	6'V		Too many rock fragments			FAILS
	A	7'V		Backhoe refusal at 7'			FAILS
	B	11'V	(SEE SOIL PROFILE)		(SEE SOIL PROFILE)		OK

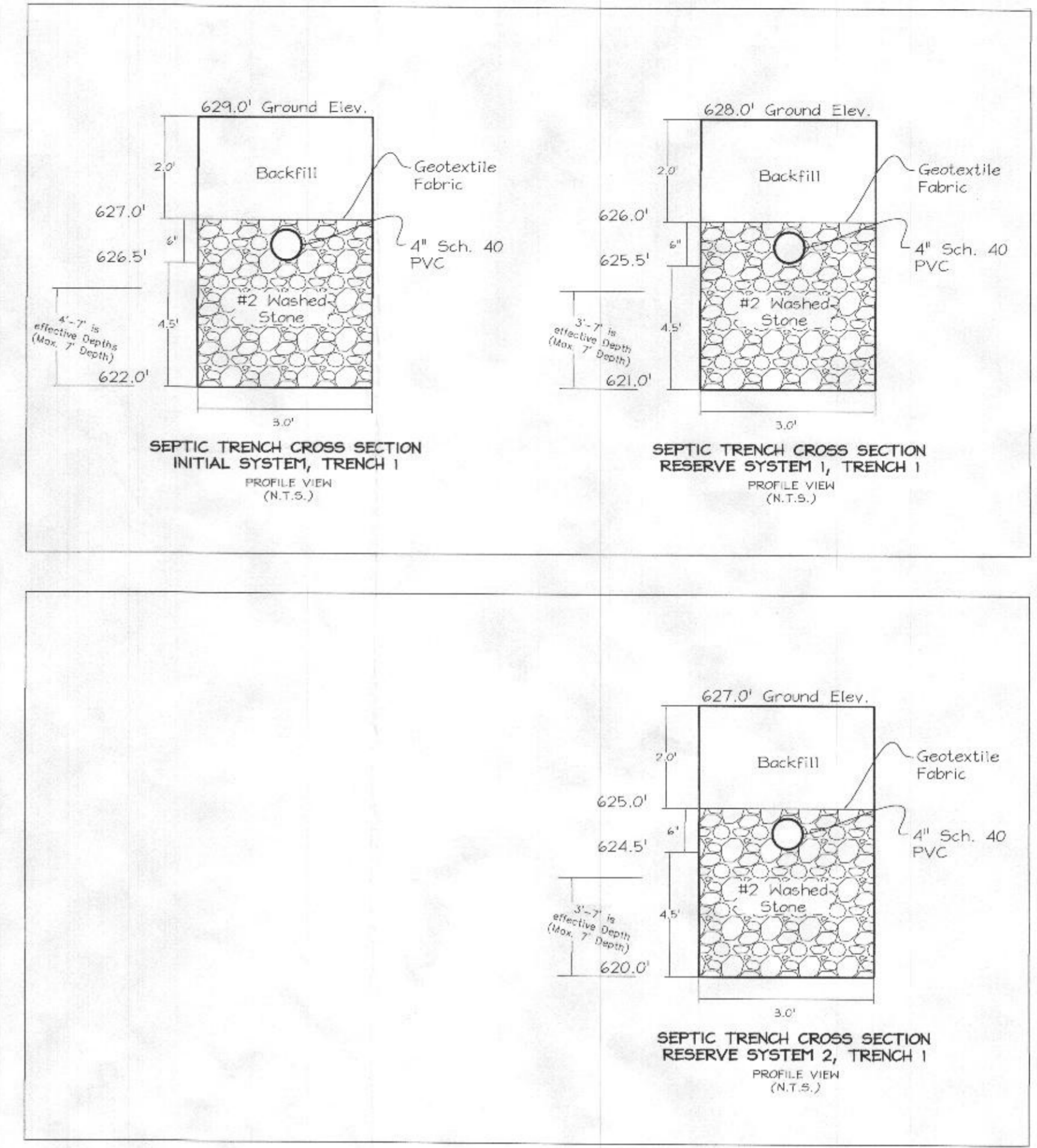
REMARKS: Holes tested as staked in field

TYPE OF SOIL: Silty loam

TESTED BY: Steven R. Krieg / Amy McMillan ALSO PRESENT Robert Fyock

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT. BEDROOM _____



SEPTIC SIZING

System Requirements (1 Initial and 2 replacements).
 Proposed Number of Bedrooms: 2
 Design Load: 300 Gal/Day
 Initial System:

Initial System
 Effective Start Depth: 4'
 Maximum Bottom Trench Depth: 7'
 Inlet Depth: 2.5'
 Absorption Area Required: 300/0.8=375
 375/3= 125'²
 (5/10)*125= 62.5
 Total Trench Length Required: 63 feet (Ons at 63')

Replacement System 1
 Effective Start Depth: 3'
 Max. Bottom Trench Depth: 7'
 Inlet Depth: 2.5'
 300 GPD
 300/0.8= 375
 375/3= 125
 125x 0.416 (4' Sidewall)= 52 LF Required
 (Install 1= 52' long trench)

Replacement System 2

OWNERS:
 ROBERT ROMITI
 345 WATERSVILLE ROAD
 WOODBINE, MD 21797

PROJECT	23-0725	DATE	12/23	ENGINEERING	NA
ILLUSTRATION	JWW	APPROVAL		SCALE	1"=100'
REVISION		BY		DATE	

5004 Ten Oaks Road
 TAX MAP 28, LOT 2, 2.86 ACRES, PLAT 701/4
 CLARKSVILLE, HOWARD COUNTY, MARYLAND

OSDS PLAN

JM ENGINEERING, LLC
 ENGINEERING, SURVEYING, LAND PLANNING,
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