

**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](https://www.facebook.com/hocohealth)

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

RECEIPT DATE: 6/23/22 **ONSITE SEWAGE DISPOSAL SYSTEM** p 571598  
 APPROVAL DATE: 07/27/2022 **PERMIT: CONSTRUCTION** A \_\_\_\_\_  
 PROPERTY ADDRESS: 1441 HERITAGE RIDGE ROAD, WOODBINE, MD 21797  
 SUBDIVISION: LINDEN GROVE, PHASE 2 LOT: 30 TAX ID: 04-603252  
 CONTRACTOR: CHAVIS ENTERPRISES & SEPTIC SERVICES, LLC EMAIL: Ryan@chavisenterprises.com  
 CONTRACTOR ADDRESS: 23 EAST ELLENDALE, BELL AIR, MD 21014 PHONE: (410)838-3007  
 PROPERTY OWNER: TOLL MID-ATLANTIC LP COMPANY, INC EMAIL: nbrandenburg@tollbrothers.com  
 OWNER ADDRESS: 250 GIBRALTER ROAD, HORSHAM, PA 19044 PHONE: (410)381-3271  
 SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Back River Pre-Cast, LLC  
 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>104</u>	INLET DEPTH: <u>2.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>14</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>2.5</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	INSTALL AT LEAST TWO CLEANOUTS IN SHC.	

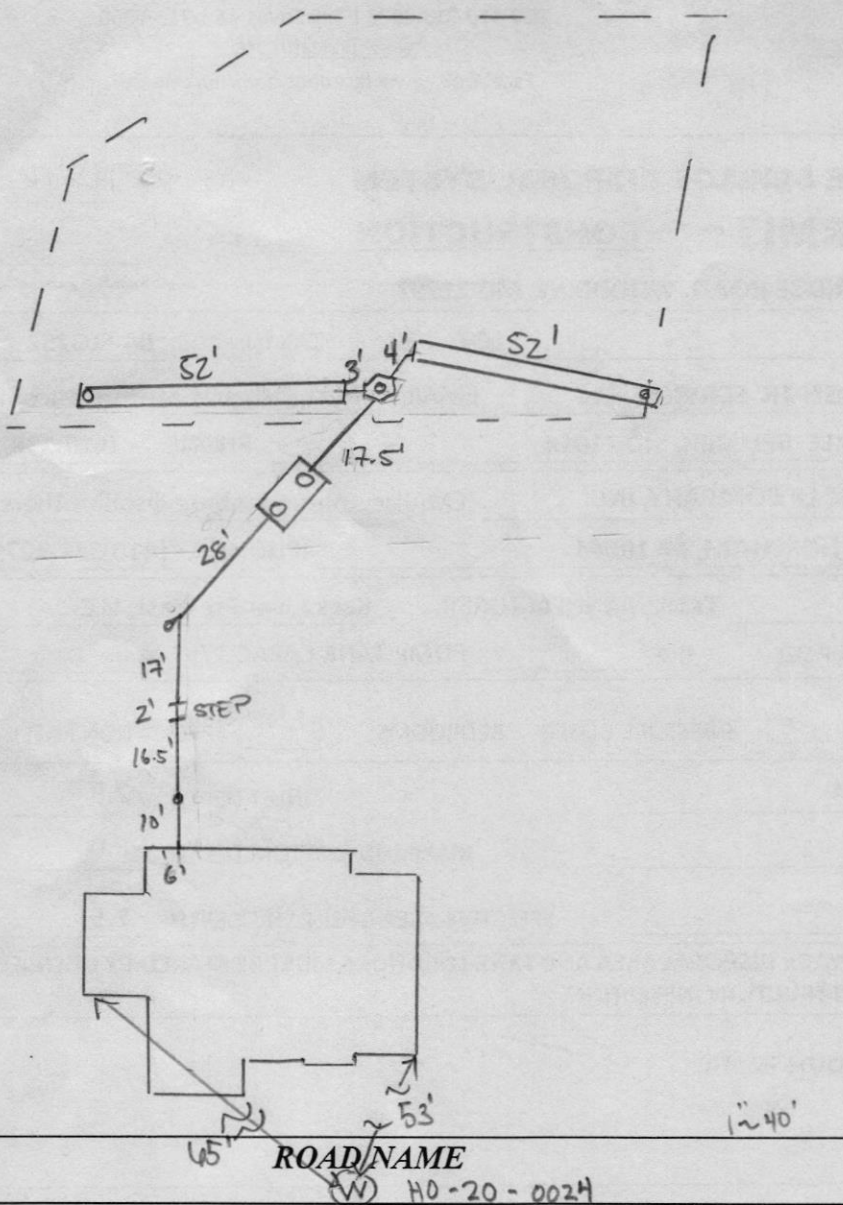
ISSUED BY: R BRICKER H.C. ISSUE DATE: 7/19/22 EXPIRATION DATE: 7/19/23

- 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 DOWNGRAIENT 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

1:40



**TRENCH/DRAINFIELD DATA**

WIDTH	INLET	BOTTOM
3'	2.5'	8'

NUMBER OF TRENCHES 2  
 TOTAL LENGTH 104 E  
 ABSORPTION AREA 312 SF + 5.5' SW  
 DISTRIBUTION BOX LEVEL SPEED  
 DISTRIBUTION BOX BAFFLE CONCRETE  
 DISTRIBUTION BOX PORT YES

**SEPTIC TANK DATA**

SEPTIC TANK 1 LEVEL YES  
 MANUFACTURER BABYLON  
 CAPACITY 2000 GAL  
 SEAM LOC TOP  
 TANK LID DEPTH ~1'  
 BAFFLES YES  
 BAFFLE FILTER -  
 MANHOLE LOC FRONT/BACK  
 6" PORT LOC -  
 WATERTIGHT TEST -  
 SLOTTED YES  
 DATE ON LID 05/30/2022

**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:**

5/22/22 - laid out according to plan, SDA staked but not moved, trenches, tank & d box staked, looks good. set transit to ensure elevations will work for gravity system, laid out 2 trenches @ 52' (2x) for total of 104' (2x)

**INSTALLATION:**

07/25/2022 SHC AND SL INSTALLED TO TANK. SET (✓)  
 07/26/2022 EFFLUENT LINE INSTALLED TO D BOX. TRENCH COMPLETE.  
 REPLACE UPPER OBS w/ SCH 40 PVC (P) 07/27/2022 OBS PORTS REPLACED w/ SCH 40. OK TO BACKFILL. (P)

FINAL INSPECTOR

DATE OF APPROVAL

07/27/2022

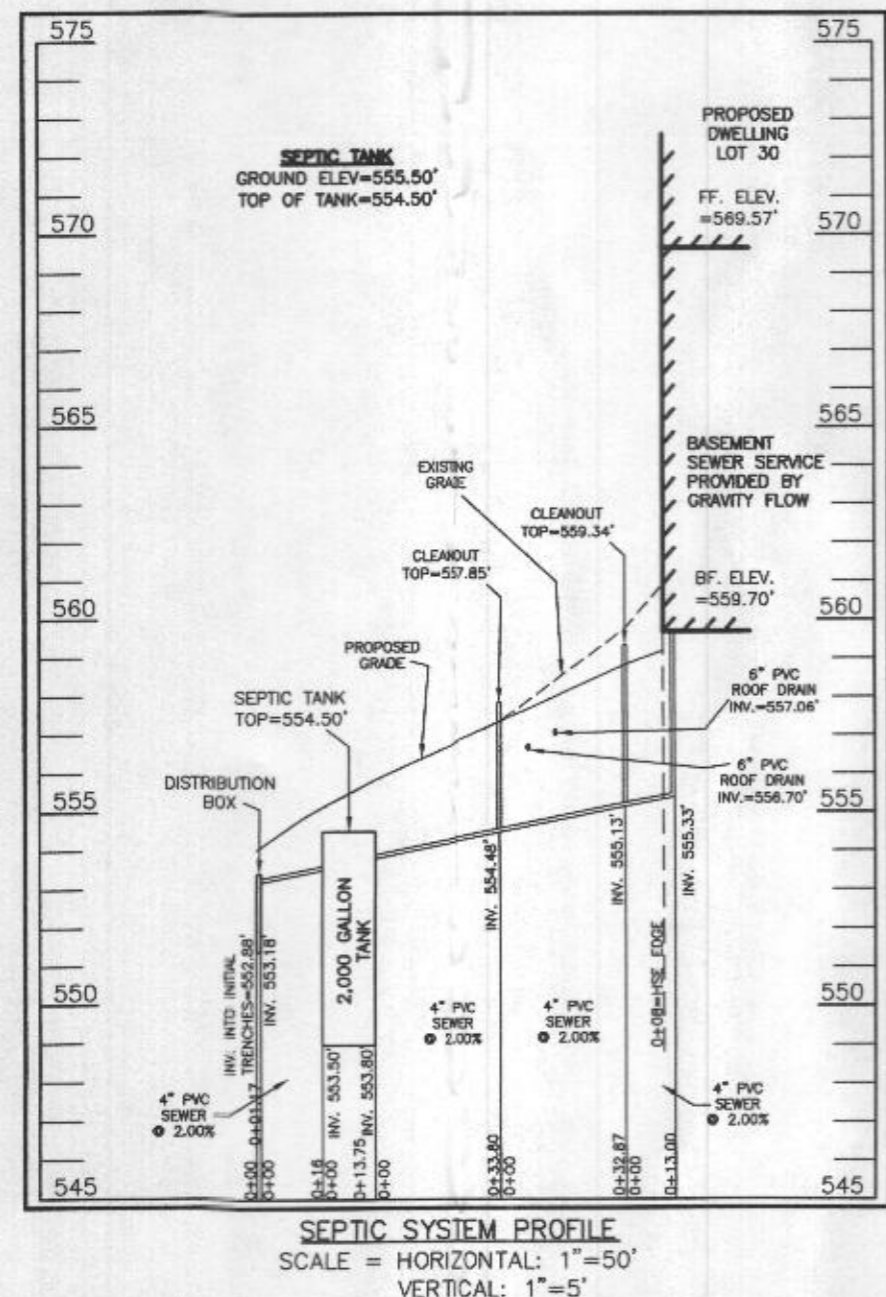
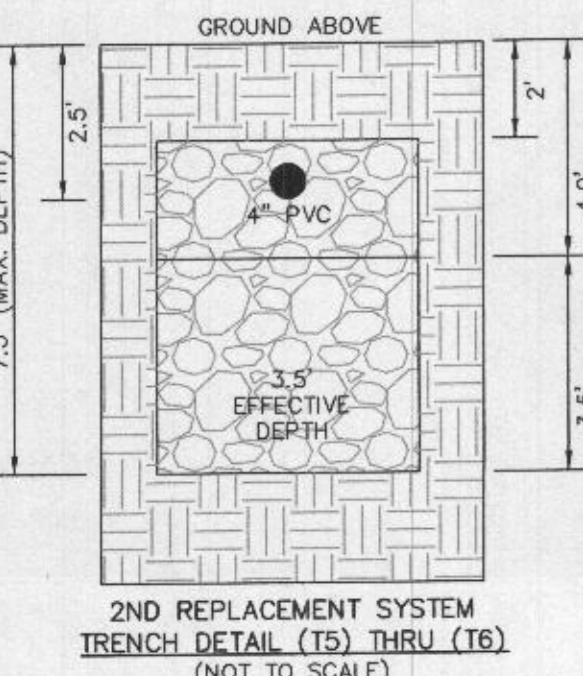
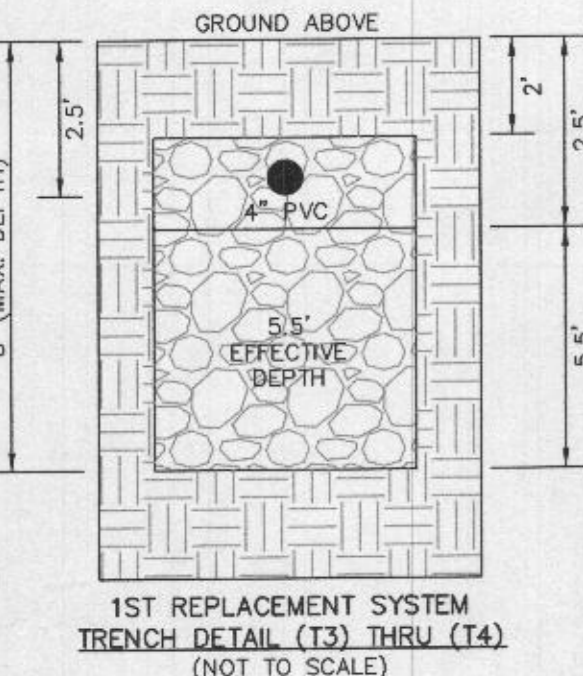
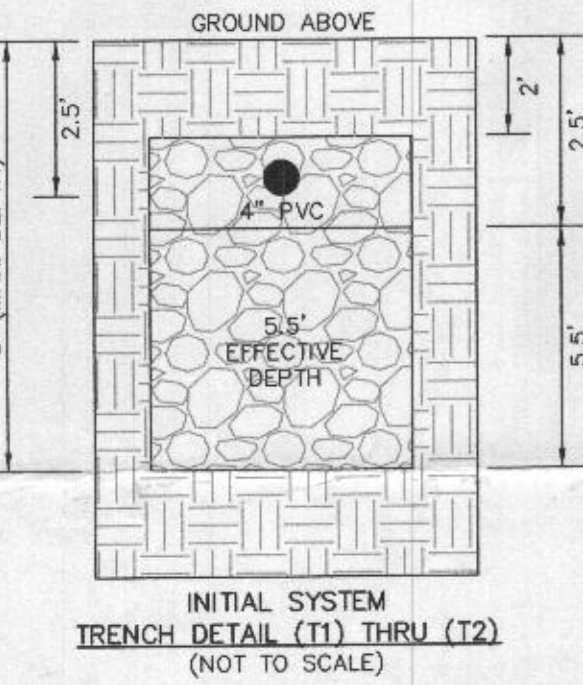
**HOUSE OPTIONS:**

- HOUSE TYPE: DUMONT (CRAFTSMAN)  
 TWO CAR SIDE ENTRY GARAGE  
 WALK-OUT BASEMENT  
 ADDITIONAL WALK-IN CLOSET  
 ADDITIONAL SINGLE WINDOW  
 WET BAR ROUGH-IN  
 ADDITIONAL ONE CAR FRONT ENTRY GARAGE  
 OUTDOOR LIVING DECK - WALK-OUT  
 DOUBLE WIDE DRIVEWAY TAIL

- OPTION No. 012  
 OPTION No. 017  
 OPTION No. 030  
 OPTION No. 187  
 OPTION No. 048246  
 OPTION No. 263102  
 OPTION No. 263169  
 OPTION No. 851

**INITIAL TRENCH DATA:**

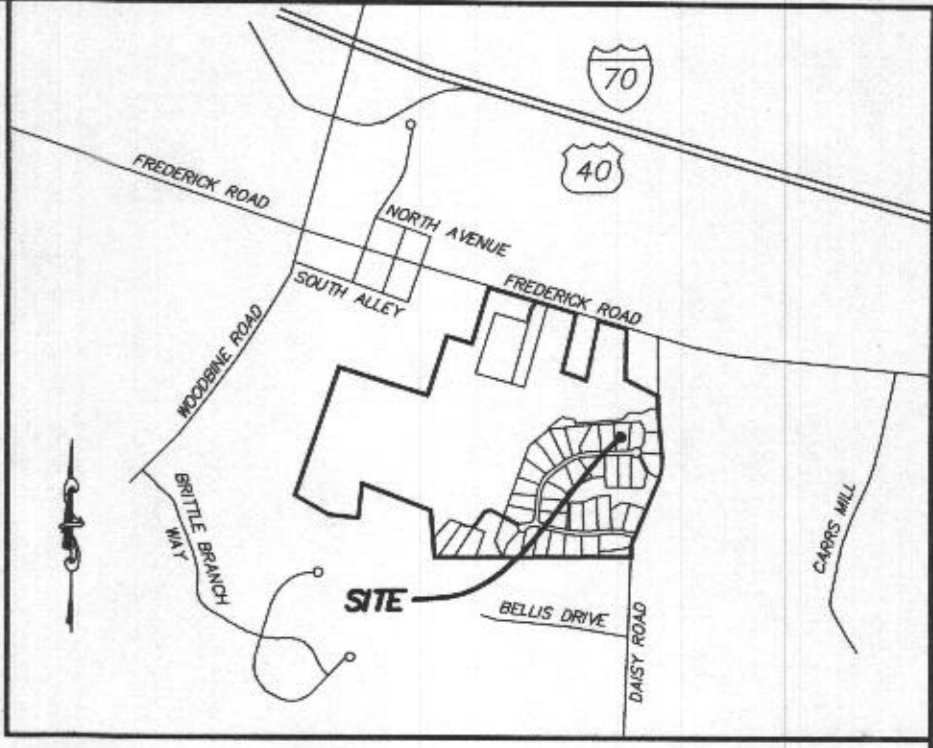
- BOTTOM MAX. DEPTH (8.0')  
**TRENCH 1 (T1): 51.57 LF.**  
 GROUND ABOVE = 554.00'  
 INV. IN = 551.50'  
 BOTTOM TRENCH = 546.00'  
**TRENCH 2 (T2): 51.57 LF.**  
 GROUND ABOVE = 554.00'  
 INV. IN = 551.50'  
 BOTTOM TRENCH = 553.00'



- LEGEND:**
- BRL BUILDING RESTRICTION LINE
  - WELL LOCATION
  - TOP OF WALL
  - G.F. GARAGE FLOOR
  - B.F. BASEMENT FLOOR
  - PAUSED PERC LOCATION
  - FAILED PERC LOCATION
  - SEWAGE DISPOSAL AREA
  - WELL BOX AREA
  - PROPOSED TREE
  - PROPOSED TREE

**SEWAGE DISPOSAL SYSTEM DATA (5 BDRM):**

- PROPOSED INVERT AT FOUNDATION WALL: 555.33'
- EX. GRADE OVER TANK: 555.50'  
 PROPOSED GRADE OVER TANK: 555.50'  
 INVERT IN: 554.48' INVERT OUT: 553.50'
  - DISTRIBUTION BOX  
 EXISTING GRADE OVER TANK: 554.07'  
 PROPOSED GRADE OVER TANK: 554.07'  
 INVERT IN: 553.18' INVERT OUT: 552.88'
  - INITIAL TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)  
 750 GPD + 0.8 APP. RATE = 937.50 SF  
 USE 3" WIDE TRENCH WITH 66" GRAVEL BELOW PIPE  
 10" MIN. SPACING BETWEEN TRENCH EDGES  
 937.50 SF ÷ 3" WIDTH = 312.50 LF x 0.33 (REDUCTION) = 103.13 LF MIN.  
**USE 2 51.57' LONG TRENCHES = 103.13 LF**
  - 1ST REPLACEMENT TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)  
 750 GPD + 0.8 APP. RATE = 937.50 SF  
 USE 3" WIDE TRENCH WITH 66" GRAVEL BELOW PIPE  
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**USE 2 51.57' LONG TRENCHES = 103.13 LF**
  - 2ND REPLACEMENT TRENCH DESIGN (5 BDRM x 150 GPD/BDRM = 750 GPD)  
 750 GPD + 0.8 APP. RATE = 937.50 SF  
 USE 3" WIDE TRENCH WITH 60" GRAVEL BELOW PIPE  
 12" MIN. SPACING BETWEEN TRENCH EDGES  
 937.50 SF ÷ 3" WIDTH = 312.50 LF x 0.45 (REDUCTION) = 140.63 LF MIN.  
**USE 2 70.32' LONG TRENCHES = 140.63 LF**



**GENERAL NOTES:**

- THESE AREAS DESIGNATE A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS UNTO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
- EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
- ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT PLAN SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.
- ANY CHANGES 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.
- THE MAXIMUM EARTH COVER OVER THE TANK IS THREE (3) FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- THE EXISTING TOPOGRAPHY SHOWN HEREON IS FROM HOWARD COUNTY GIS, 2' CONTOUR INTERVAL AND FIELD VERIFIED BY FISHER, COLLINS AND CARTER, INC.

**SOILS LEGEND**

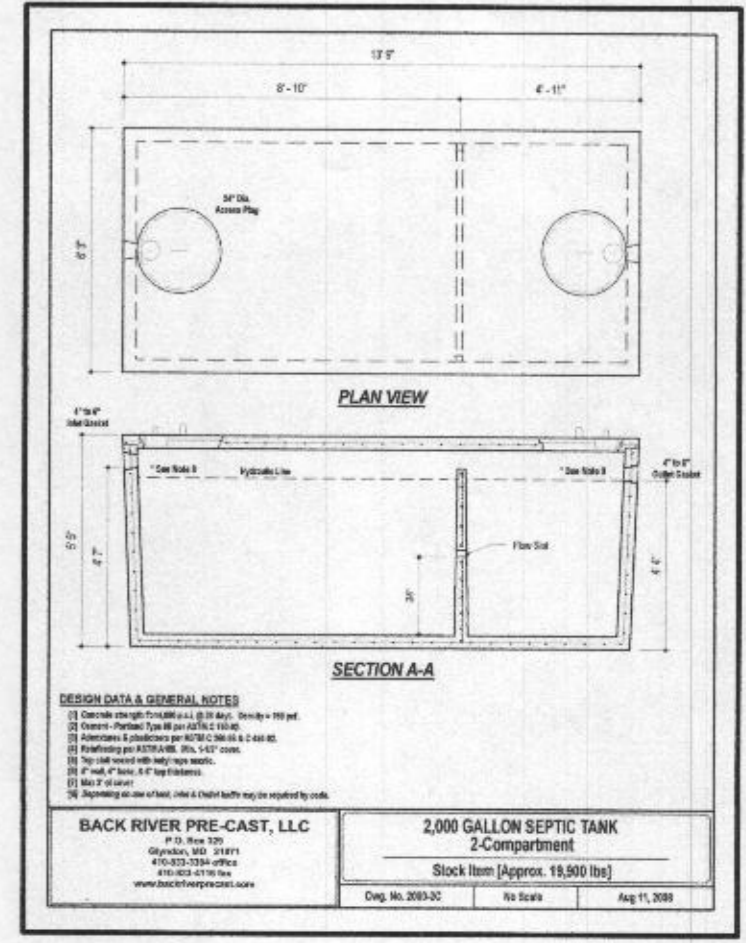
SOIL	NAME	CLASS	Kw
BrD	BRINKLOW CHANNERY LOAM, 15 TO 25 PERCENT SLOPES	B	.20
GgA	GLENELG LOAM, 0 TO 3 PERCENT SLOPES	B	.20
GgB	GLENELG LOAM, 3 TO 8 PERCENT SLOPES	B	.20
GgC	GLENELG LOAM, 8 TO 15 PERCENT SLOPES	B	.20
*GmA	GLENVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES	C	.37
*GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	C	.37
*GmC	GLENVILLE-SAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	.37
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	.24

- NOTES:**
- \* HYDRIC SOILS AND / OR CONTAINS HYDRIC INCLUSIONS
  - \*\* MAY CONTAIN HYDRIC INCLUSIONS
  - \*\*\* DENOTES ERODIBLE SOILS

**WELL LOCATION CERTIFICATION:**

THE EXISTING WELL SHOWN FOR LOT 30 (TAG NO. HO-20-0024) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN  
 LOT 30  
**LINDEN GROVE**  
 LIBER 15899, FOLIO 246  
 PLAT NO. 25722  
 ELECTION DISTRICT No. 4  
 HOWARD COUNTY, MARYLAND  
 ADDRESS: 1441 HERITAGE RIDGE ROAD  
 WOODBINE, MARYLAND 21797



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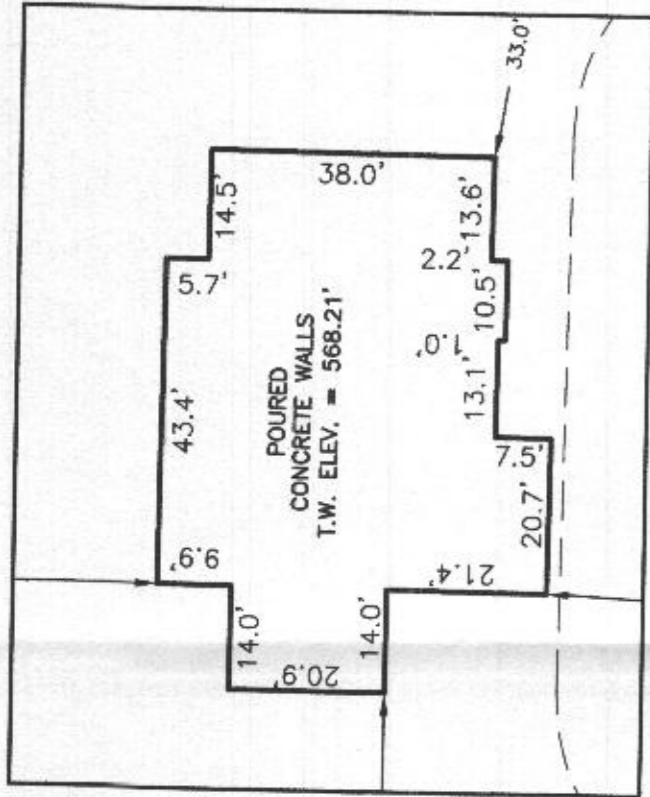
ESE Consultants, Inc.  
 6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046  
 T: 410-872-9105

DATE: 03/15/2022 SCALE: 1"= 30' FILE: 4683 PP Lot 30 DUMONT CRAFTSMAN  
 CHK'D: M.J.B. JOB NO: 4683 DRAWN: V.X.P.

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/23.

**LEGEND:**

- BRL BUILDING RESTRICTION LINE
- W WELL LOCATION
- T.W. TOP OF WALL
- SEWAGE DISPOSAL AREA
- WELL BOX AREA



HOUSE ENLARGEMENT  
NOT TO SCALE

WELL NUMBER: HO-20-0024  
 ADDRESS: 1441 HERITAGE RIDGE ROAD  
 WOODBINE, MD 21797  
 PERMIT NO.: B21002811

BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPEMENT PLAN  
 SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±0.1' FOOT.

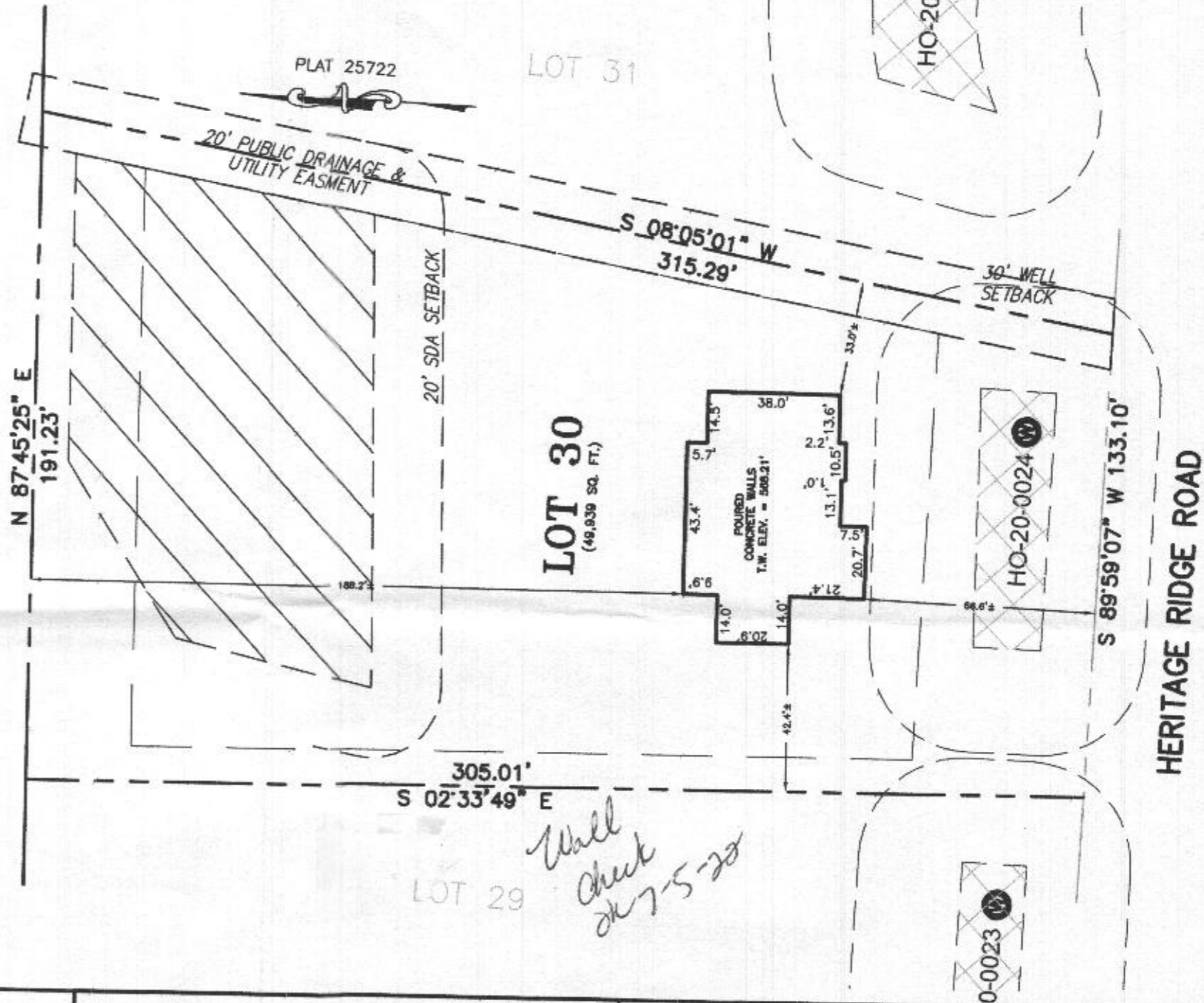
**SURVEYOR'S CERTIFICATE**

THIS WALLCHECK WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHT-OF-WAYS, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED HEREON. BEARINGS AND DISTANCES OF THE PROPERTY BOUNDARY LINES SHOWN HEREON ARE PER AVAILABLE RECORDS AND HAVE NOT BEEN FIELD VERIFIED.  
**THIS IS NOT A "LOCATION DRAWING" AND IS NOT TO BE USED FOR SETTLEMENT PURPOSES.**

SIGNATURE: *Michael Joe Boyce* 21328 06/16/22  
 MD. LIC NO. DATE



NON BUILDABLE  
PRESERVATION  
PARCEL 'E'



WALLCHECK  
 LOT 30  
**LINDEN GROVE**  
 LIBER 15899, FOLIO 246  
 PLAT NO. 25722  
 ELECTION DISTRICT No. 4  
 HOWARD COUNTY, MARYLAND

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**HOUSE OPTIONS:**

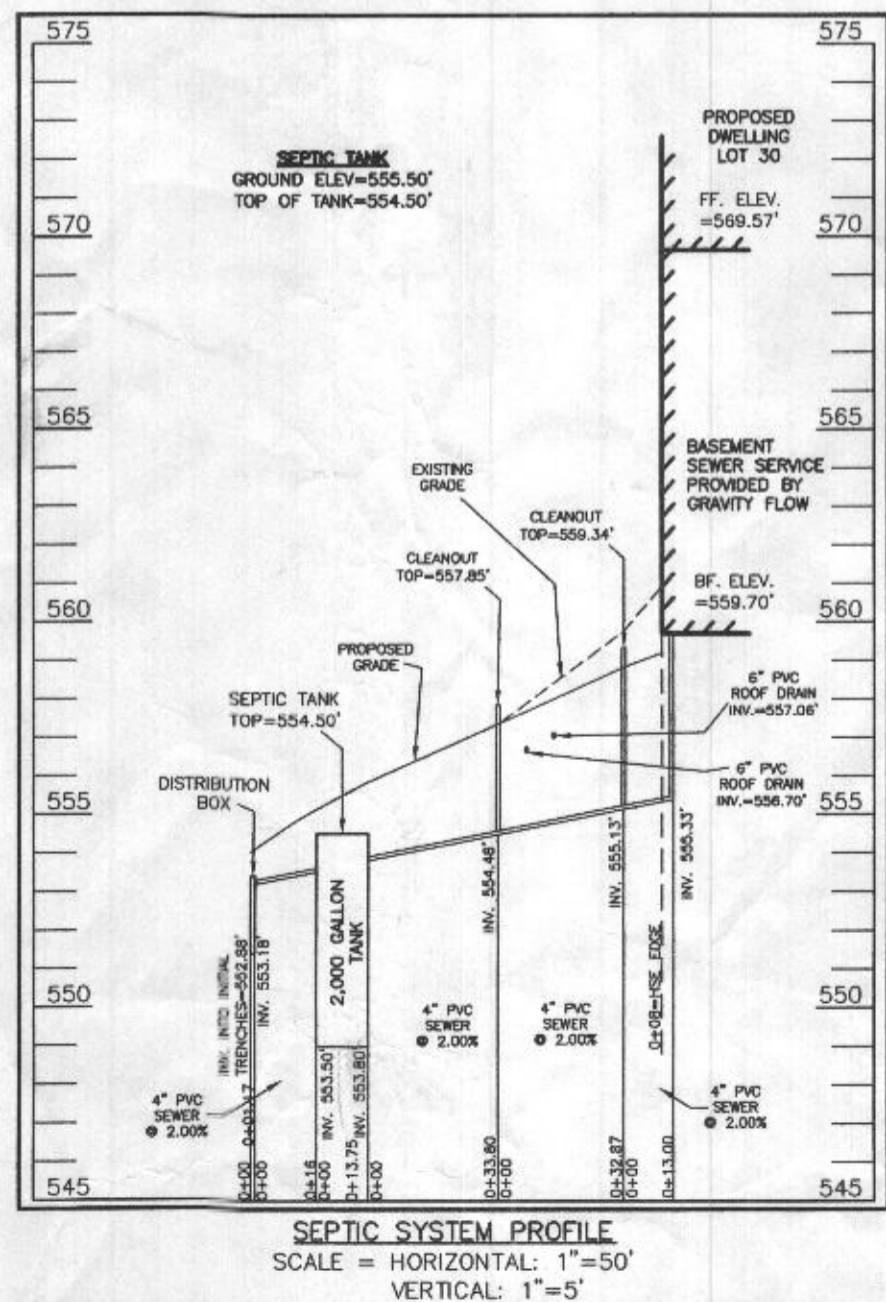
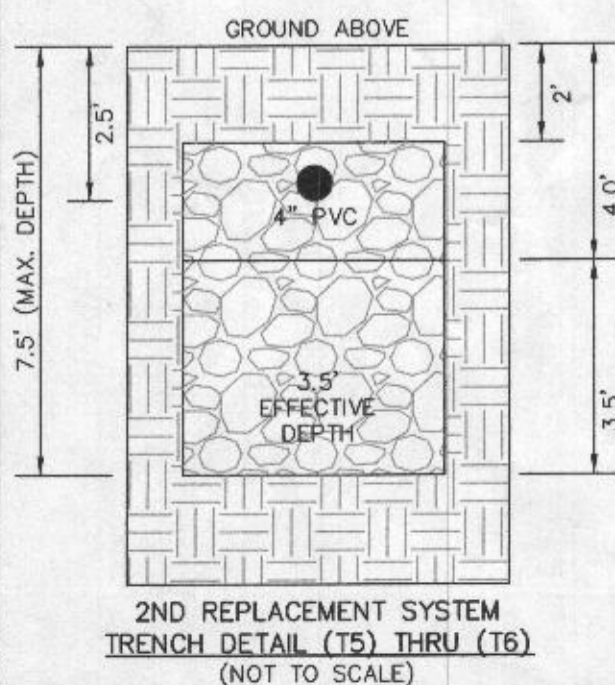
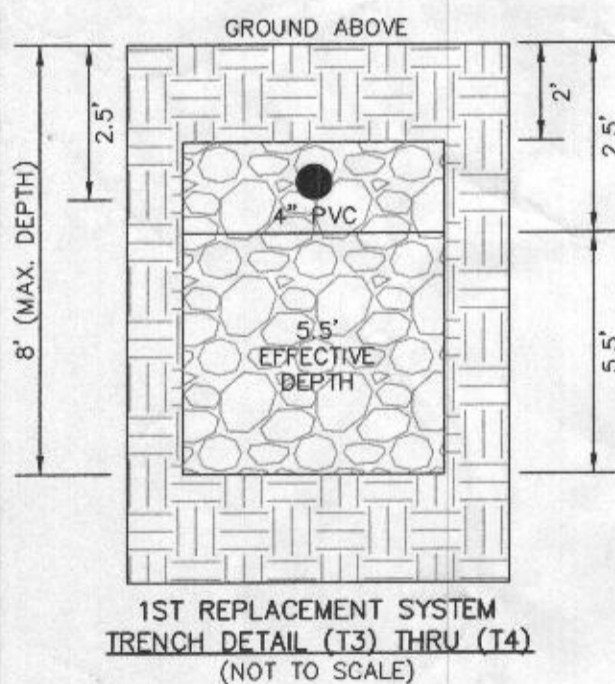
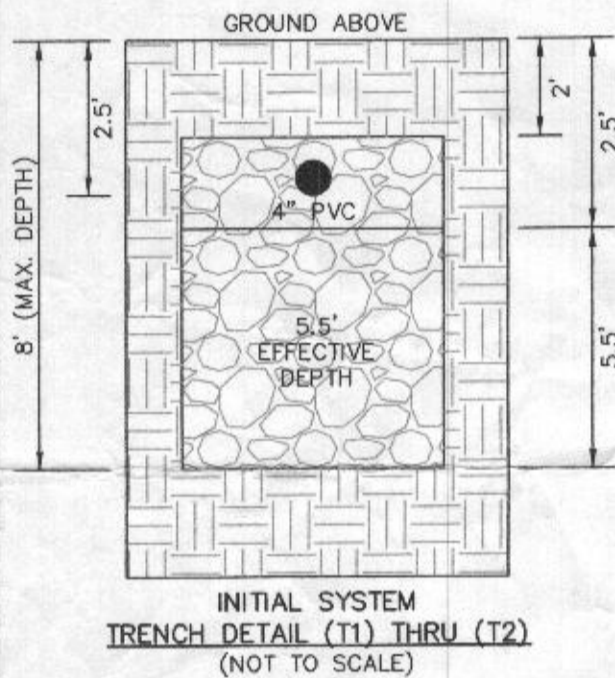
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- OPTION No. 187
- OPTION No. 048246
- OPTION No. 263102
- OPTION No. 263169
- OPTION No. 851

**INITIAL TRENCH DATA:**

- BOTTOM MAX. DEPTH (8.0')
- TRENCH 1 (T1): 51.57 L.F.**  
GROUND ABOVE = 554.00'  
INV. IN = 551.50'  
BOTTOM TRENCH = 546.00'
- TRENCH 2 (T2): 51.57 L.F.**  
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- LEGEND:**
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  - WELL LOCATION
  - T.W. TOP OF WALL
  - G.F. GARAGE FLOOR
  - B.F. BASEMENT FLOOR
  - P.P. PASSED PERC LOCATION
  - F.P. FAILED PERC LOCATION
  - SEWAGE DISPOSAL AREA
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DATE: 03/15/2022 SCALE: 1" = 30' FILE: 4683 PP Lot 30 DUMONT CRAFTSMAN  
 CHK'D: M.J.B JOB NO: 4683 DRAWN: V.X.P.



**VICINITY MAP**  
1" = 1000'

**GENERAL NOTES:**

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