

Howard County Health Department

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

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

RECEIPT DATE: 5/25/21 ONSITE SEWAGE DISPOSAL SYSTEM P 509530

APPROVAL DATE: 8/12/21 PERMIT: CONSTRUCTION A

PROPERTY ADDRESS: 1413 HERITAGE RIDGE ROAD, WOODBINE, MD 21797

SUBDIVISION: LINDEN GROVE, PHASE 1 LOT: 15 TAX ID: 04-601894

CONTRACTOR: Charlz Enterprises LLC EMAIL: Sedentick@charlzentprisesllc.com

CONTRACTOR ADDRESS: 23 East Wendover St, Bel Air, MD PHONE: 410-557-2455

PROPERTY OWNER: TOLL MID-ATLANTIC LP COMPANY, INC EMAIL: Sriley1@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: [X] GRAVITY [ ] PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 0.8

Table with 2 columns: Field Name (TRENCHES, LOCATION, NOTES) and Field Value (Linear feet required: 188, Inlet depth: 3.0, etc.)

ISSUED BY: R BRICKER ISSUE DATE: 5/25/21 EXPIRATION DATE: 5-25-22

- 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
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

**TRENCH/DRAINFIELD DATA**

WIDTH	INLET	BOTTOM
3'	4.5'	7.5'
NUMBER OF TRENCHES		3
TOTAL LENGTH		198'
ABSORPTION AREA		594 sq ft sidewalk
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		yes

**SEPTIC TANK DATA**

**SEPTIC TANK 1 LEVEL**

MANUFACTURER Babylon

CAPACITY 2000 GAL

SEAM LOC top

TANK LID DEPTH 5'

BAFFLES inlet + outlet

BAFFLE FILTER —

MANHOLE LOC inlet + outlet

6" PORT LOC —

WATERTIGHT TEST —

SLOTTED yes

DATE ON LID —

**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 —

ROAD NAME

**PRE-CONSTRUCTION:**

8/11/21 Contractor accidentally thought there had been a preconstruction meeting and began work. (SD)

**INSTALLATION:**

8/11/21 SHC, St constructed and tank and d-box set (SD)  
8/12/21 3x66' trenches constructed. Inlet is at 4.5' instead of 3' as planned because contractor needed to make fall from the d-box. Inlet approved because effective area starts at 4.5 for first trenches according to perc notes. D-box leveled. (SD)

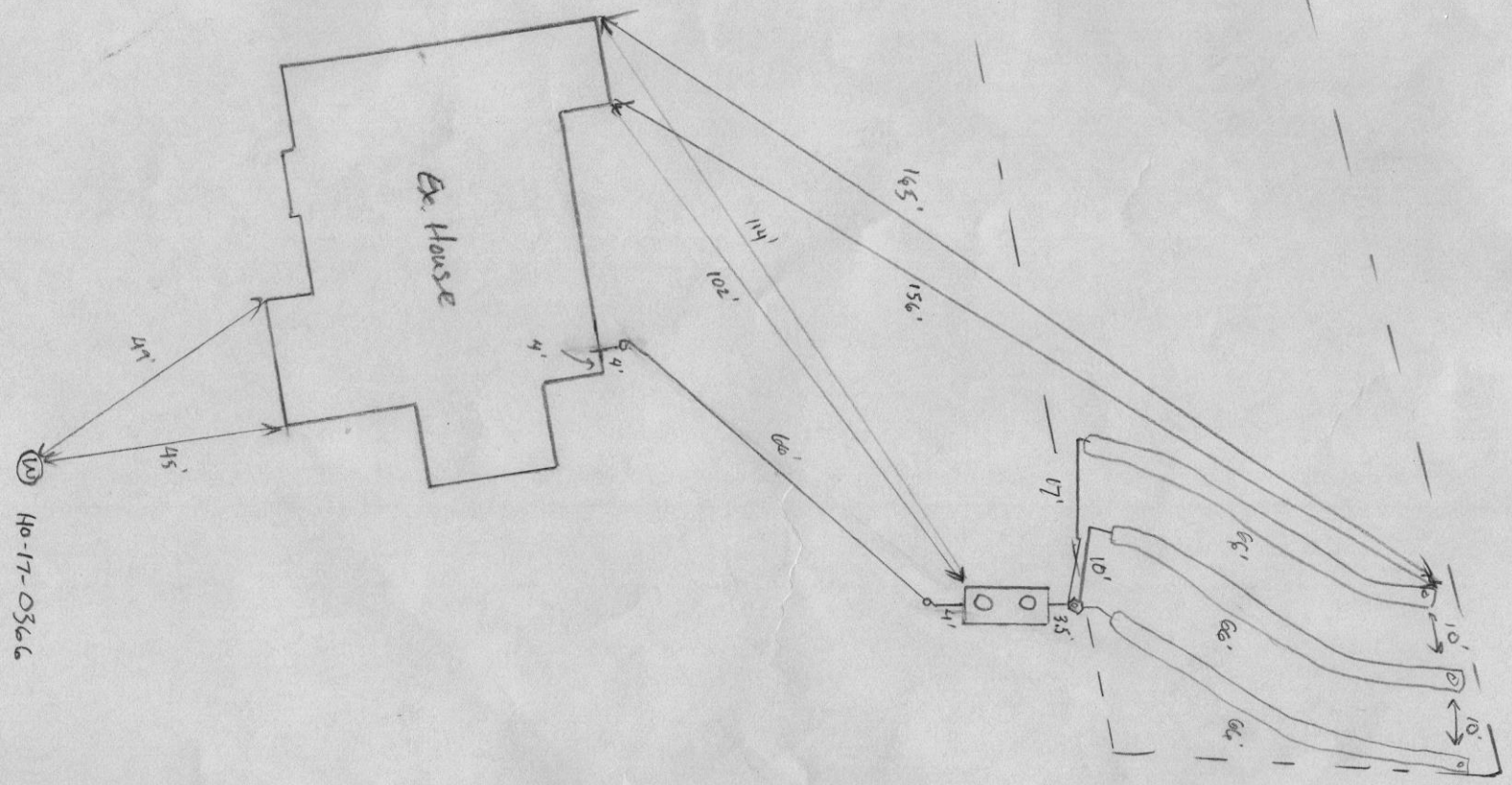
FINAL INSPECTOR

Dana Thomas

DATE OF APPROVAL

8/12/21

NOT TO SCALE 1" ≈ 30'

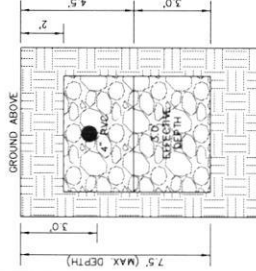


PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/23.

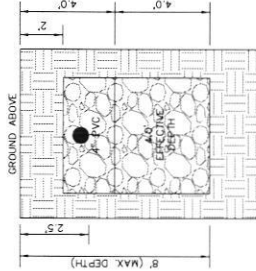
- HOUSE OPTIONS:**
- HOUSE TYPE: DUMONT (CRATZMAN)
  - TWO CAR SIDE ENTRY GARAGE
  - FINISHED LOWER LEVEL
  - OPTIONAL WALK-IN CLOSET
  - ALTERNATE PRIMARY BEDROOM SUITE
  - MULTI-GENERATIONAL SUITE, ADDITION
  - OPTIONAL DROP ZONE
  - OPTIONAL SIDE ENTRY GARAGE (14)
  - WALK-OUT LOUNGE COVERED DECK
  - OPTIONAL BATH FOR FINISHED LOWER LEVEL

**INITIAL TRENCH DATA**

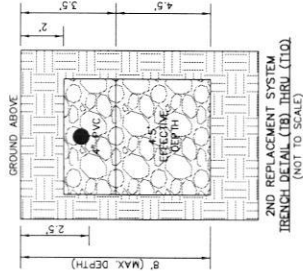
- BOTTOM MAX. DEPTH (7.5)
- TRENCH 1 (11D): 62.50 LF.
- GROUND ABOVE = 578.93'
- INV. IN. = 575.93'
- BOTTOM TRENCH = 571.43'
- TRENCH 2 (12D): 62.50 LF.
- GROUND ABOVE = 578.48'
- INV. IN. = 575.48'
- BOTTOM TRENCH = 570.98'
- TRENCH 3 (13D): 62.50 LF.
- GROUND ABOVE = 578.00'
- INV. IN. = 575.00'
- BOTTOM TRENCH = 570.50'



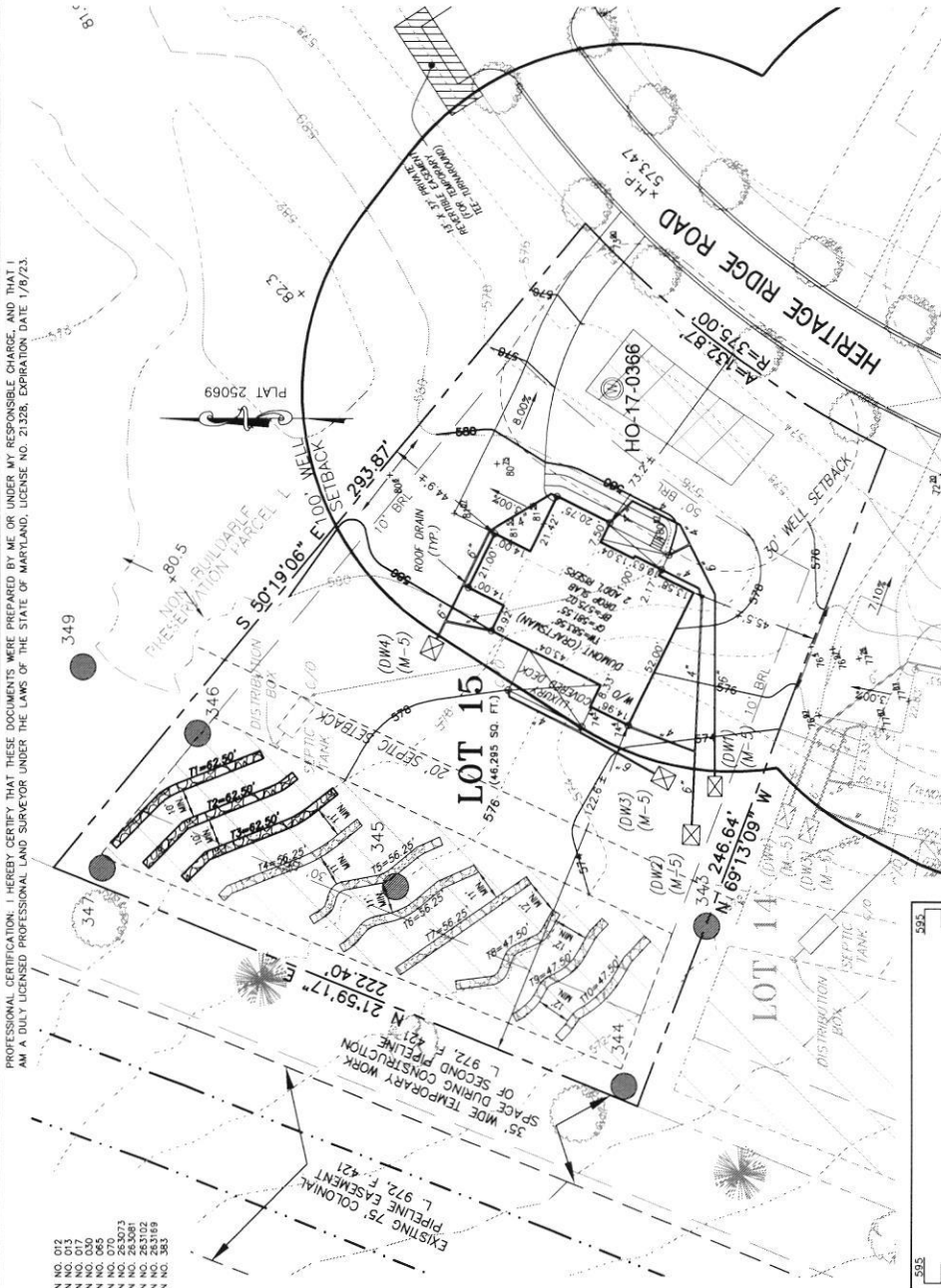
TRENCH DETAIL (11), (12) & (13)  
(NOT TO SCALE)



1ST REPLACEMENT SYSTEM  
TRENCH DETAIL (14), (17)  
(NOT TO SCALE)



2ND REPLACEMENT SYSTEM  
TRENCH DETAIL (14), (17)  
(NOT TO SCALE)

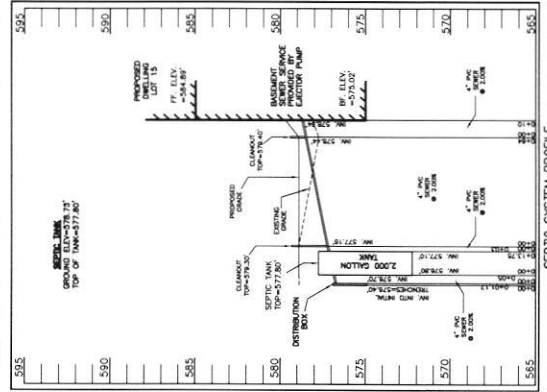


- LEGEND:**
- BRL (1/4" = 1'-0") BUILDING RESTRICTION LINE
  - TOP OF WALL
  - G.F. GARAGE FLOOR
  - P.F. PASSED PERC LOCATION
  - F.P. FAILED PERC LOCATION
  - SEPTIC RESERVE AREA
  - WELL BOX AREA
  - PROPOSED TREE
  - PROPOSED TREE

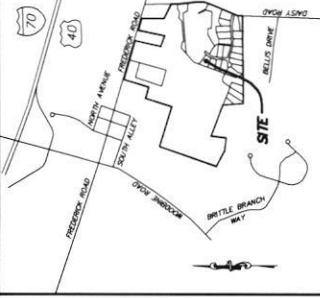
**SEWAGE DISPOSAL SYSTEM DATA (6 BDRM)**

PROPOSED INVERT AT FOUNDATION WALL: 578.64'

1. EX. GRADE OVER TANK: 578.87'
- INGRESS GRADE OVER TANK: 578.75'
- PROPOSED GRADE OVER TANK: 578.80'
- INVERT IN: 577.10' INVERT OUT: 576.80'
2. DISTRIBUTION BOX
- GRAVEL TRENCH: 6" x 12" x 12" x 12"
- PROPOSED GRADE OVER TANK: 578.80'
- INVERT IN: 576.70' INVERT OUT: 576.40'
3. INITIAL TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
- USE 3" WIDE TRENCH WITH 54" GRAVEL BELOW PIPE
- 10' MIN. SPACING BETWEEN TRENCH EDGES
- 1.925 SF x 3' WIDTH = 375 LF x 0.50 (SIDEWALL REDUCTION) = 187.50 LF MIN.
- USE 3' 62.50' LONG TRENCHES = 187.50 LF
4. 1ST REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
- 900 GPD + 0.6 APP. RATE = 1,500 SF
- USE 3" WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
- 1.500 SF x 3' WIDTH = 500 LF x 0.45 (SIDEWALL REDUCTION) = 225 LF MIN.
- USE 4' 54.25' LONG TRENCHES = 225 LF
5. 2ND REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
- 900 GPD + 0.8 APP. RATE = 1,325 SF
- USE 3" WIDE TRENCH WITH 66" GRAVEL BELOW PIPE
- 12' MIN. SPACING BETWEEN TRENCH EDGES
- 1.125 SF x 3' WIDTH = 375 LF x 0.38 (SIDEWALL REDUCTION) = 142.50 LF MIN.
- USE 3' 47.50' LONG TRENCH = 142.50 LF



SEPTIC SYSTEM PROFILE  
SCALE = HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

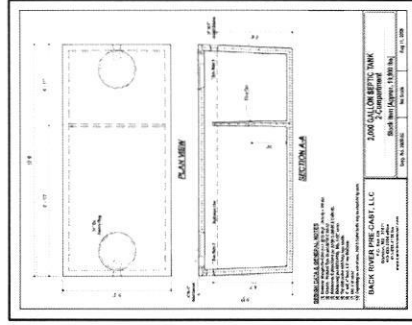


**VICINITY MAP**

1" = 1000'

**GENERAL NOTES:**

1. THESE AREAS DESIGNATE A PRIVATE SEWAGE AREA OF THE JURISDICTION OF THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA. RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE AREAS ARE NOT TO BE USED FOR ANY OTHER PURPOSE. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENFORCEMENTS UNTO THE SEWAGE AREA. SEWAGE AREA VARIANCES OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
2. EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS SHALL BE MAINTAINED AS SHOWN HEREON PER SITE PLAN UNLESS SHOWN OTHERWISE AS "X". HAVE AN ACCURACY OF 60.1 FOOT.
3. ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
4. BUILDING SETBACKS (B.R.L.) SHOWN HEREON PER SITE PLAN UNLESS SHOWN OTHERWISE AS "X". HAVE AN ACCURACY OF 60.1 FOOT.
5. ANY CHANGES TO THE LOCATIONS OR DEPTHS TO ANY EXISTING WELLS SHALL REQUIRE A REVISED SITE PLAN MAY BE REQUIRED.
6. THE MAXIMUM EARTH COVER OVER THE TANK IS THREE (3) FEET. A GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
7. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WOOD, AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
8. THE EXISTING TOPOGRAPHY SHOWN HEREON IS FROM HOWARD COUNTY GIS, 2' CONTOUR INTERVAL AND FIELD VERIFIED BY FISHER, COLLINS AND CARTER, INC.



**ESE CONSULTANTS**  
ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL

ESE Consultants, Inc.  
784 Columbia Gateway Drive • Suite 230 • Columbia, MD 21046  
T: 410-672-9005

DATE: 12/17/2022  
SCALE: 1" = 30'  
JOB NO: 4683  
DRAWN: R.C.K.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN  
LOT 15  
LINDEN GROVE  
LIBER 15899, FOLIO 246  
PLAT NO. 25069  
ELECTION DISTRICT NO. 4  
HOWARD COUNTY, MARYLAND  
ADDRESS: 1413 HERITAGE RIDGE ROAD  
WOODBINE, MARYLAND 21797

