



**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](http://www.hchealth.org)

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

RECEIPT DATE: 9-30-22 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 572187

APPROVAL DATE: 11/2/22 **PERMIT: CONSTRUCTION**

A \_\_\_\_\_

PROPERTY ADDRESS: 7001 COLT PLACE, DAYTON, MD 21036

SUBDIVISION: WILLOWSHIRE LOT: 25 TAX ID: 05-603013

CONTRACTOR: CHAVIS ENTERPRISES & SEPTIC SERVICES EMAIL: Ryan@chavisenterprisesllc.com

CONTRACTOR ADDRESS: 23 EAST ELLENDALE, BEL 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)872-9165

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: 7 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>97 82.5 LF</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 CLEANOUT IN SHC, AS ILLUSTRATED.	

ISSUED BY: R BRICKER ISSUE DATE: N.A. EXPIRATION DATE: 9-30-23

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 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.**

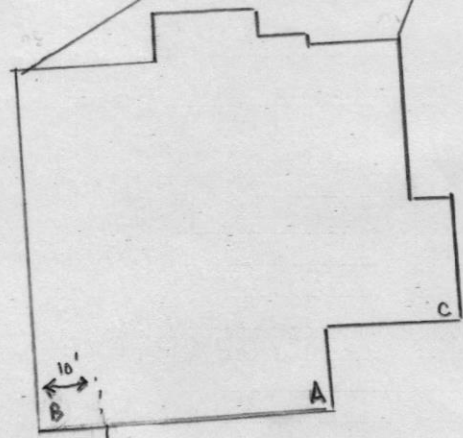
**CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

1" = 30'

NOT TO SCALE

W NO TAG  
as of  
11/1/22

90'  
48'



ST - 52' to A  
20' to B

d box - 73' to A  
- 40' to B

62' to B  
38' to C

83'

ROAD NAME

**TRENCH/DRAINFIELD DATA**

WIDTH	INLET	BOTTOM
3'	2.5'	8'

NUMBER OF TRENCHES 1  
 TOTAL LENGTH 83'  
 ABSORPTION AREA 255 sqft. + Sidewalk  
 DISTRIBUTION BOX LEVEL yes  
 DISTRIBUTION BOX BAFFLE yes  
 DISTRIBUTION BOX PORT yes

**SEPTIC TANK DATA**

SEPTIC TANK 1 LEVEL yes  
 MANUFACTURER Back River  
 CAPACITY 2000 GAL  
 SEAM LOC top  
 TANK LID DEPTH 2' - 2.5'  
 BAFFLES front 6" / back 4"  
 BAFFLE FILTER \_\_\_\_\_  
 MANHOLE LOC front / back  
 6" PORT LOC \_\_\_\_\_  
 WATERTIGHT TEST \_\_\_\_\_  
 SLOTTED yes  
 DATE ON LID 8/2/22

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:**

10/31/22 - laid out trench, septic tank; dbox stakes in place. ok to continue. (R)

**INSTALLATION:**

11/1/22 - site insp, contractor on site, SHC made, sewer line w/ fall installed and tank & dbox in place; ok to backfill this portion and continue w/ trench install. (R) 11/1/22 - well triangulation completed and the well is missing it's well tag, supposed to be HO-18-0048. (R)  
 11/2/22 - contractor onsite, one 83' trench complete, stone ok, geotextile fabric's observation port installed, soils consistent w/ perc data (perc holes #'s 213; 214) (R)

FINAL INSPECTOR

R. Rappaport

DATE OF APPROVAL


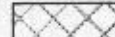
11/2/22

Foundation has changed.

Need new OSDS plan &  
new floor plans.

-ZS

LEGEND:

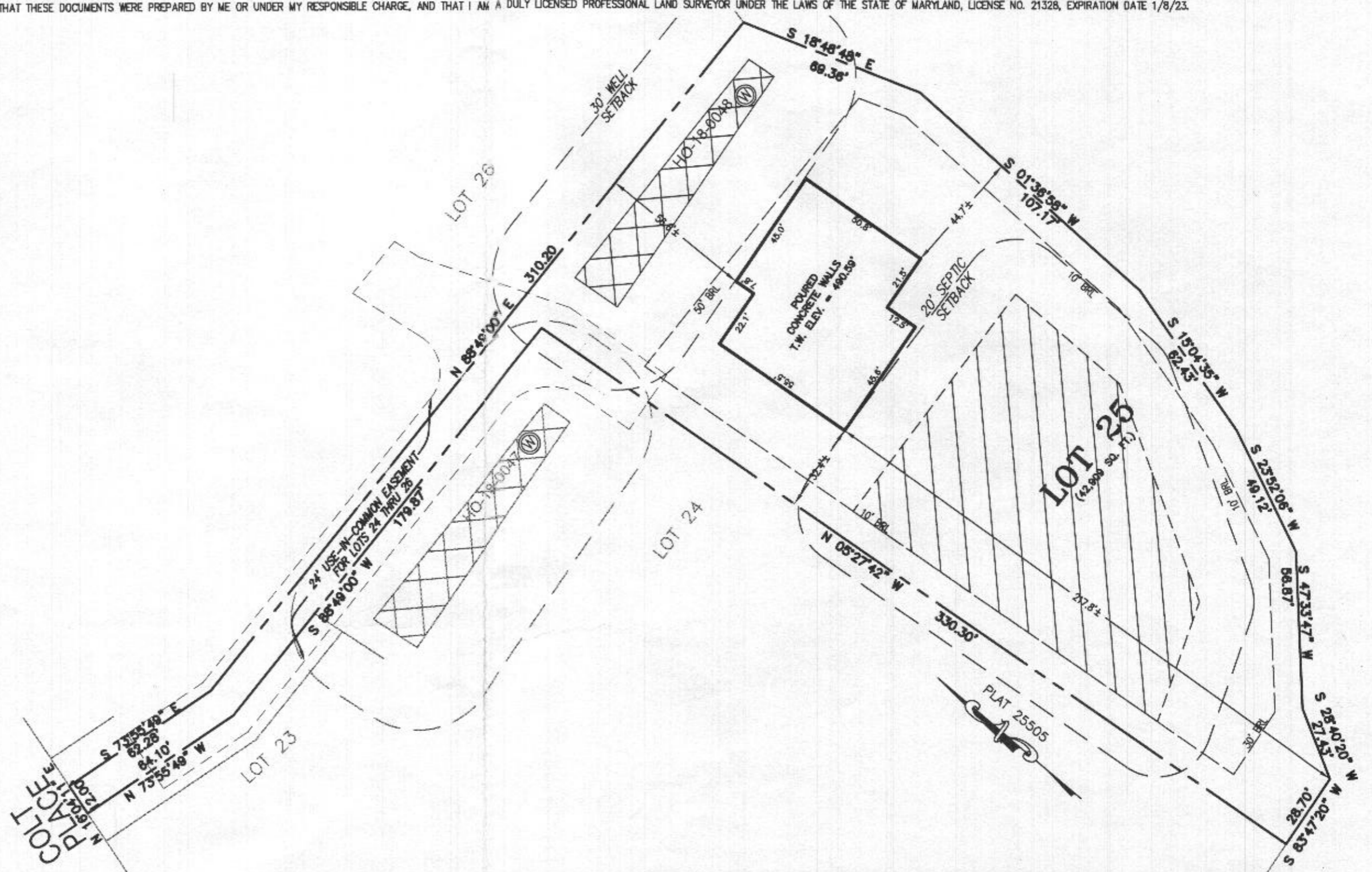
- BRL BUILDING RESTRICTION LINE
- ⊙ WELL LOCATION
- T.W. TOP OF WALL
-  SEWAGE DISPOSAL AREA
-  WELL BOX AREA



HOUSE ENLARGEMENT  
NOT TO SCALE

WELL NUMBER: HO-18-0048  
 ADDRESS: 7001 COLT PLACE  
 DAYTON, MD 21036  
 PERMIT No.: B21002780

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.**

*Michael Joe Boyce* 21328 9/9/22  
 SIGNATURE: MICHAEL JOE BOYCE MD. LIC NO. DATE

WALLCHECK  
 LOT 25  
**WILLOWSHIRE**  
 LIBER 18479, FOLIO 296  
 PLAT NO. 25505  
 5th ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**ESE CONSULTANTS**  
 ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL  
 ESE Consultants, Inc.  
 6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046  
 T: 410-872-9105

DATE: 09/09/2022 SCALE: 1" = 40' FILE: WC LOT 25  
 CHK'D: M.J.B. JOB NO: 4520 DRAWN: V.X.P.

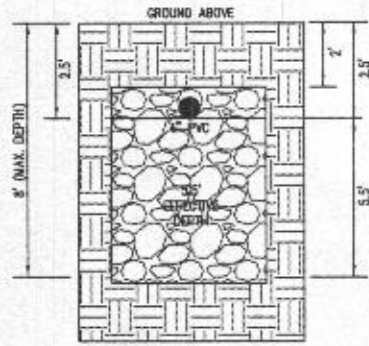


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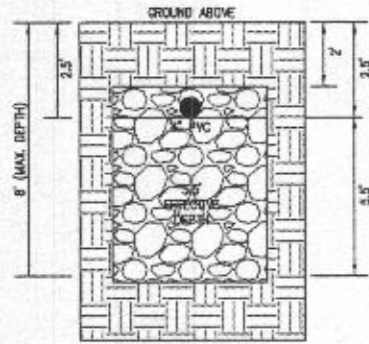
- BR. BUILDING RESTRICTION LINE
- T.W. WELL LOCATION
- G.F. TOP OF WALL
- B.F. GARAGE FLOOR
- B.F. BASEMENT FLOOR
- D.W. DRYWELL
- PASSED PERC LOCATION
- ▨ SEWAGE DISPOSAL AREA
- ▨ WELL BOX AREA
- PROPOSED TREE
- PROPOSED TREE
- SOL. DELINEATION LINE

**INITIAL TRENCH DATA:**

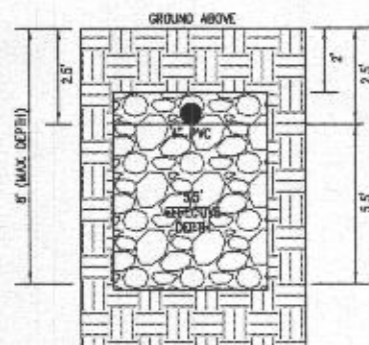
BOTTOM MAX. DEPTH (8')  
 TRENCH 1 (T1) 82.50 LF  
 GROUND ABOVE = 486.20'  
 INV. IN = 477.70'  
 BOTTOM TRENCH = 472.20'



INITIAL SYSTEM  
 TRENCH DETAIL (T1)  
 (NOT TO SCALE)



1ST REPLACEMENT SYSTEM  
 TRENCH DETAIL (T2 AND T3)  
 (NOT TO SCALE)



2ND REPLACEMENT SYSTEM  
 TRENCH DETAIL (T4 AND T5)  
 (NOT TO SCALE)

**HOUSE OPTIONS:**

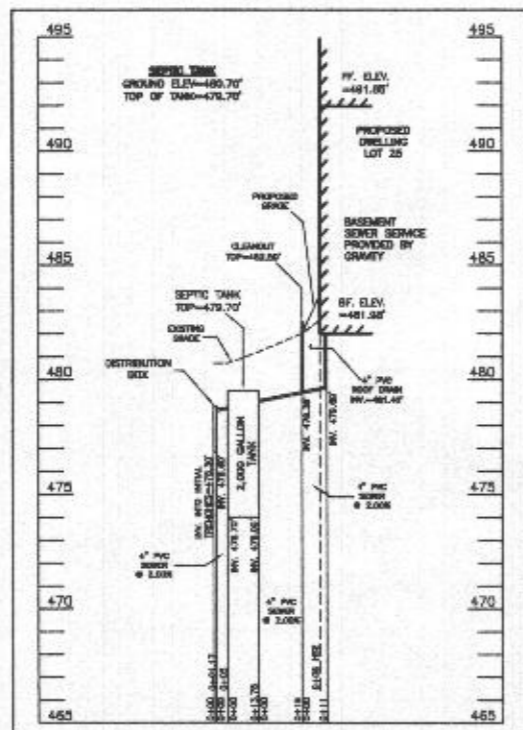
HOUSE TYPE: KALORAMA (FAIRVIEW)

TWO CAR SIDE ENTRY GARAGE  
 WALK-OUT BASEMENT  
 NET BAR ROUGH-IN LOWER LEVEL  
 LUXURIOUS PRIMARY BATH PACKAGE  
 STUDY IN LIEU OF LIVING ROOM/FLEX ROOM

OPTION No. 012  
 OPTION No. 017  
 OPTION No. 048246  
 OPTION No. 035  
 OPTION No. 283038

**SOILS LEGEND**

SOIL	NAME	CLASS	Kw
GnB	GLENVILLE BAILE SILT LOAMS, 3 TO 8 PERCENT SLOPES	C	43
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	28
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	28



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

**SEWAGE DISPOSAL SYSTEM DATA (8 BERM)**

- PROPOSED INVERT AT FOUNDATION WALL: 479.60'
- EXIST. GRADE OVER TANK: 480.70'  
 PROPOSED GRADE OVER TANK: 480.70'  
 INVERT IN: 478.00' INVERT OUT: 478.70'
  - DISTRIBUTION BOX  
 EXISTING GRADE OVER TANK: 480.60'  
 PROPOSED GRADE OVER TANK: 480.60'  
 INVERT IN: 478.60' INVERT OUT: 478.30'
  - INITIAL TRENCH DESIGN (8 BERM x 150 GPD/BERM = 900 GPD)  
 900 GPD x 1.2 APP. RATE = 750 SF  
 USE 3' WIDE TRENCH WITH 10" GRAVEL BELOW PIPE  
 14" MIN. SPACING BETWEEN TRENCH EDGES  
 750 SF x 3' WIDTH = 250 LF x 0.33 (SIDEWALL RESTRICTION) = 82.50 LF MIN.  
 USE 1 82.50' LONG TRENCH = 82.50 LF
  - 1ST REPLACEMENT TRENCH DESIGN (8 BERM x 150 GPD/BERM = 900 GPD)  
 900 GPD x 1.2 APP. RATE = 750 SF  
 USE 3' WIDE TRENCH WITH 10" GRAVEL BELOW PIPE  
 14" MIN. SPACING BETWEEN TRENCH EDGES  
 750 SF x 3' WIDTH = 250 LF x 0.33 (SIDEWALL RESTRICTION) = 82.50 LF MIN.  
 USE 2 48.25' LONG TRENCHES = 96.50 LF
  - 2ND REPLACEMENT TRENCH DESIGN (8 BERM x 150 GPD/BERM = 900 GPD)  
 900 GPD x 1.2 APP. RATE = 750 SF  
 USE 3' WIDE TRENCH WITH 10" GRAVEL BELOW PIPE  
 14" MIN. SPACING BETWEEN TRENCH EDGES  
 750 SF x 3' WIDTH = 250 LF x 0.33 (SIDEWALL RESTRICTION) = 82.50 LF MIN.  
 USE 2 48.25' LONG TRENCHES = 96.50 LF

**WELL LOCATION CERTIFICATION:**

THE EXISTING WELL SHOWN FOR LOT 25 (TAG NO. HD-18-0048) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

**ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN**

LOT 25  
 WILLOWSHIRE

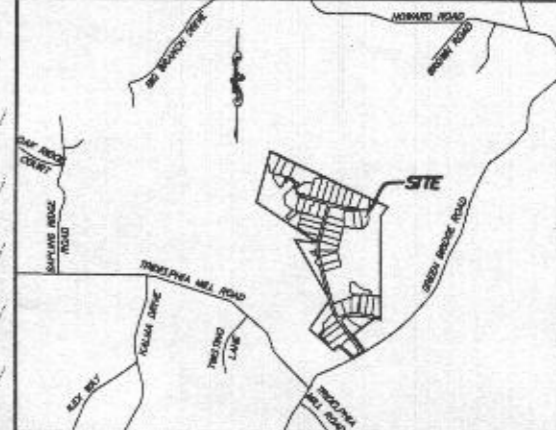
LIBER 18479, FOLIO 296  
 PLAT NO. 25505  
 ELECTION DISTRICT No. 5  
 HOWARD COUNTY, MARYLAND  
 ADDRESS: 7001 COLT PLACE  
 DAYTON, MARYLAND 21036

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 T: 410-872-9105

DATE: 10/05/2022 SCALE: 1"=30' FILE: OSDS LOT 25  
 CHK'D: M.L.B. JOB NO: 4520 DRAWN: R.C.K.

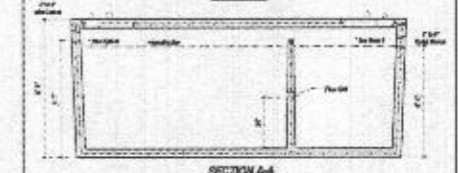
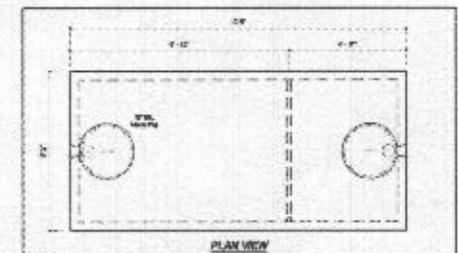


**VICINITY MAP**

1" = 2000'  
 TAX MAP 27, GRID 18

**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 INTO 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 "E" 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 AND A TOPOGRAPHIC SURVEY PREPARED BY BOHLER ENGINEERING ON 08/25/15 AND REVISED ON 08/03/15.



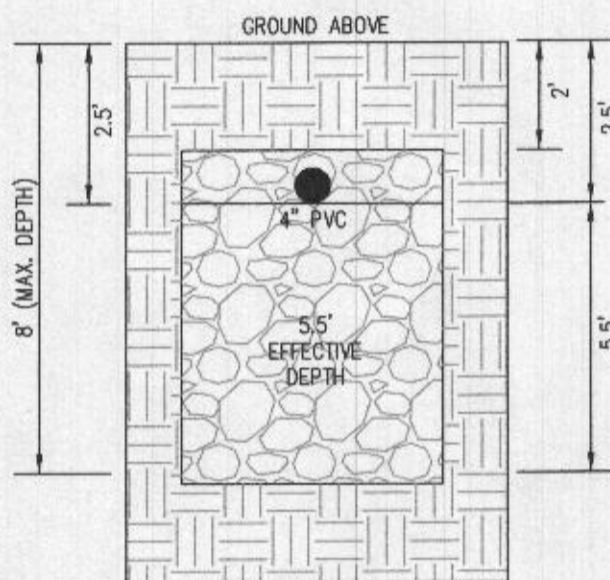
**SEWAGE DISPOSAL SYSTEM DATA**  
 2,000 GALLON SEPTIC TANK  
 2-Compartment  
 18" Dia. (Approx. 1780 lbs)  
 Back River Pre-Cast, LLC  
 2000 Gallon Septic Tank  
 2-Compartment  
 18" Dia. (Approx. 1780 lbs)  
 Sep. 24, 2002

**LEGEND:**

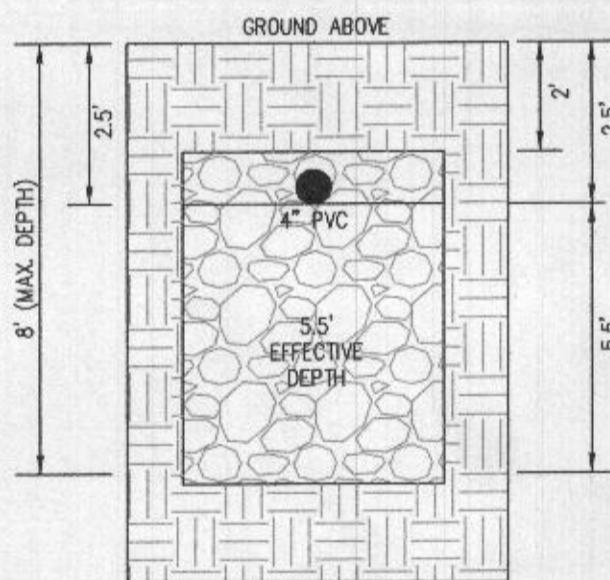
- BRL BUILDING RESTRICTION LINE
- WELL LOCATION
- T.W. TOP OF WALL
- G.F. GARAGE FLOOR
- B.F. BASEMENT FLOOR
- DW DRYWELL
- PASSED PERC LOCATION
- ▨ SEWAGE DISPOSAL AREA
- ▩ WELL BOX AREA
- PROPOSED TREE
- PROPOSED TREE
- SOIL DELINEATION LINE

**INITIAL TRENCH DATA:**

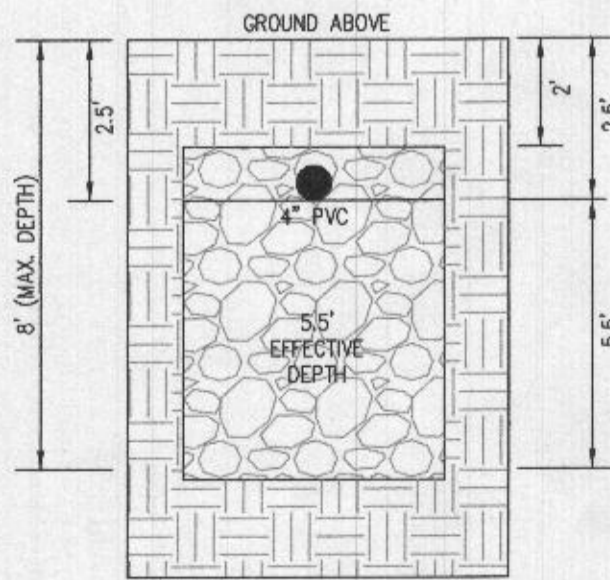
BOTTOM MAX. DEPTH (8')  
 TRENCH 1 (T1): 82.50 LF  
 GROUND ABOVE = 480.20'  
 INV. IN = 477.70'  
 BOTTOM TRENCH = 472.20'



**INITIAL SYSTEM TRENCH DETAIL (T1)**  
(NOT TO SCALE)



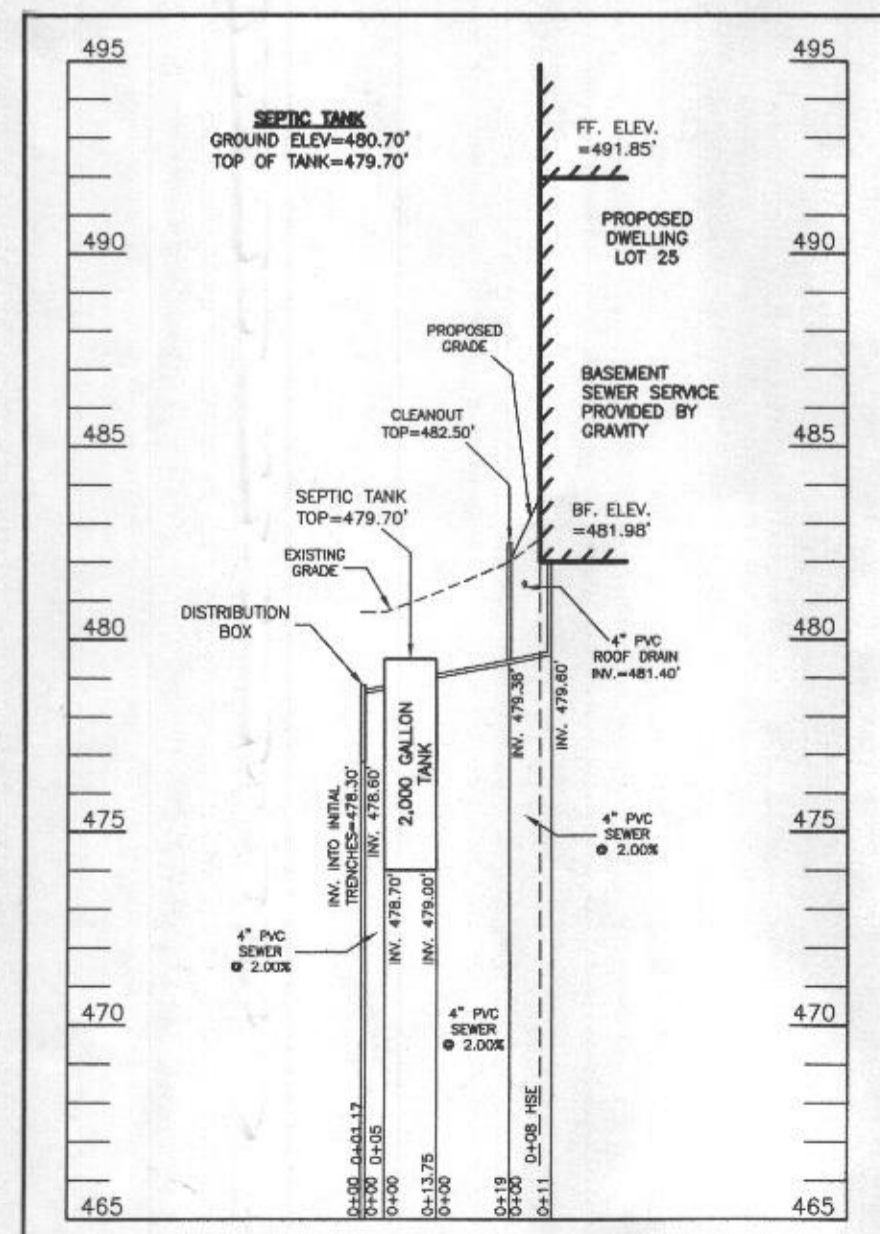
**1ST REPLACEMENT SYSTEM TRENCH DETAIL (T2 AND T3)**  
(NOT TO SCALE)



**2ND REPLACEMENT SYSTEM TRENCH DETAIL (T4 AND T5)**  
(NOT TO SCALE)

**SOILS LEGEND**

SOIL	NAME	CLASS	Kw
GnB	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	.43
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	.28
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	.28



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

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

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- EX. GRADE OVER TANK: 480.70'  
 PROPOSED GRADE OVER TANK: 480.70'  
 INVERT IN: 479.00' INVERT OUT: 478.70'
  - DISTRIBUTION BOX  
 EXISTING GRADE OVER TANK: 480.60'  
 PROPOSED GRADE OVER TANK: 480.60'  
 INVERT IN: 478.60' INVERT OUT: 478.30'
  - INITIAL TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)  
 900 GPD ÷ 1.2 APP. RATE = 750 SF  
 USE 3" WIDE TRENCH WITH XX" GRAVEL BELOW PIPE  
 14" MIN. SPACING BETWEEN TRENCH EDGES  
 750 SF ÷ 3" WIDTH = 250 LF x 0.33 (SIDEWALL REDUCTION) = 82.50 LF MIN.  
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**WELL LOCATION CERTIFICATION:**

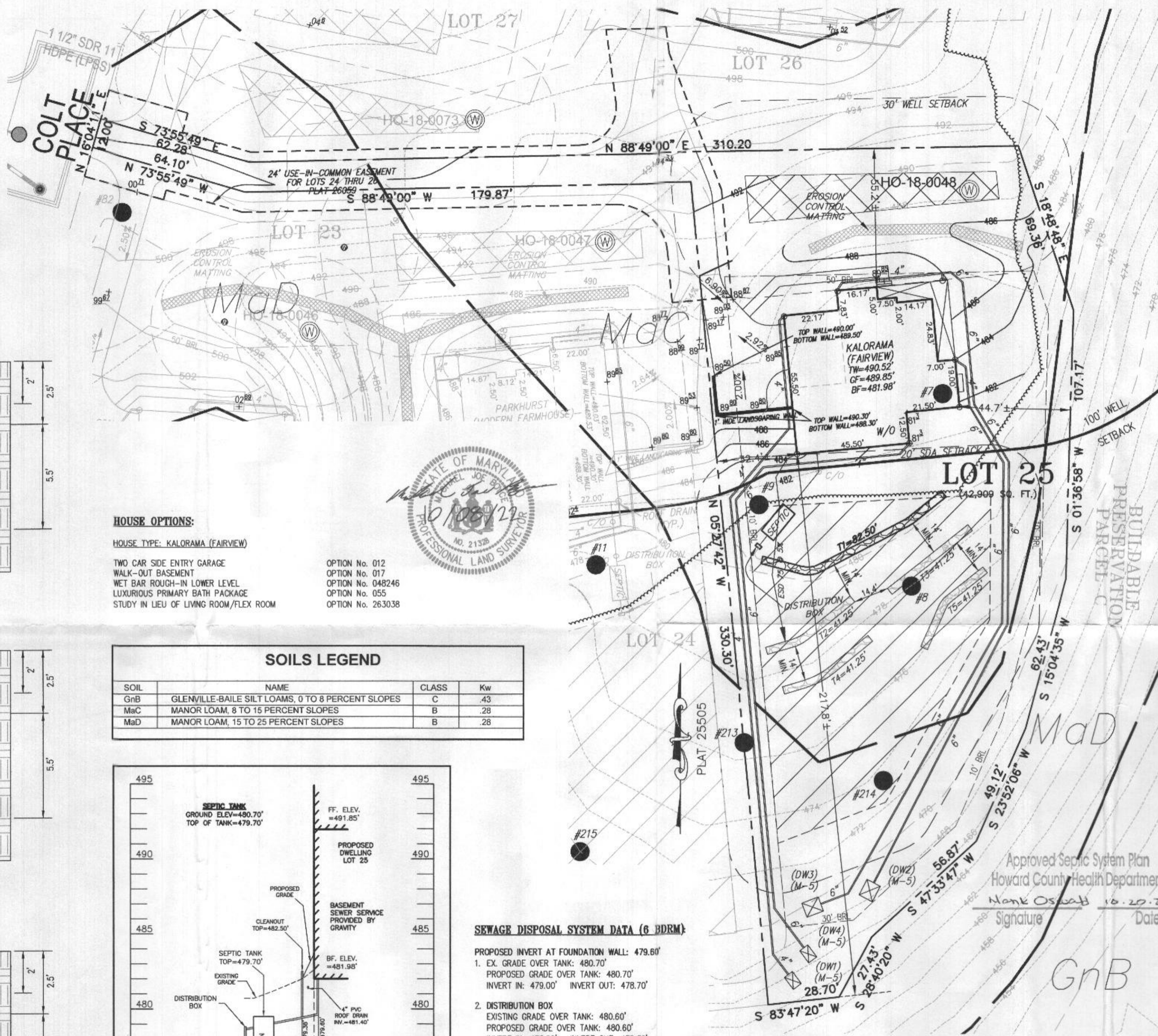
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ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN  
**LOT 25 WILLOWSHIRE**  
 LIBER 18479, FOLIO 296  
 PLAT NO. 25505  
 ELECTION DISTRICT No. 5  
 HOWARD COUNTY, MARYLAND  
 ADDRESS: 7001 COLT PLACE  
 DAYTON, MARYLAND 21036

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

DATE: 10/05/2022 SCALE: 1"=30' FILE: OSDS LOT 25  
 CHK'D: M.J.B. JOB NO: 4520 DRAWN: R.C.K.

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.

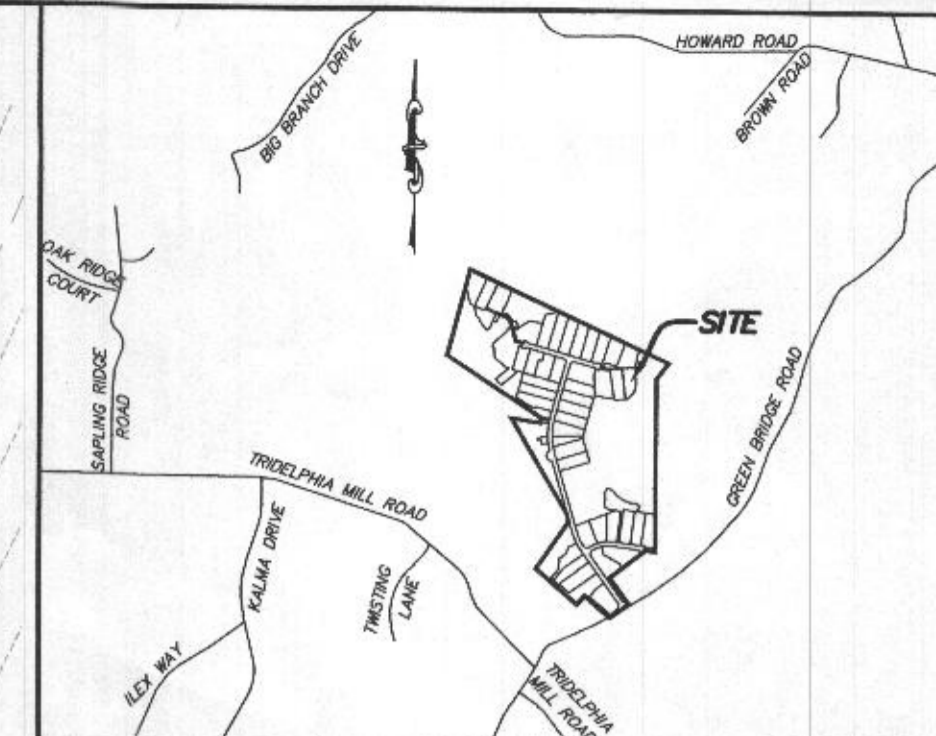


**HOUSE OPTIONS:**

HOUSE TYPE: KALORAMA (FAIRVIEW)

- TWO CAR SIDE ENTRY GARAGE
- WALK-OUT BASEMENT
- WET BAR ROUGH-IN LOWER LEVEL
- LUXURIOUS PRIMARY BATH PACKAGE
- STUDY IN LIEU OF LIVING ROOM/FLEX ROOM

- OPTION No. 012
- OPTION No. 017
- OPTION No. 048246
- OPTION No. 055
- OPTION No. 263038

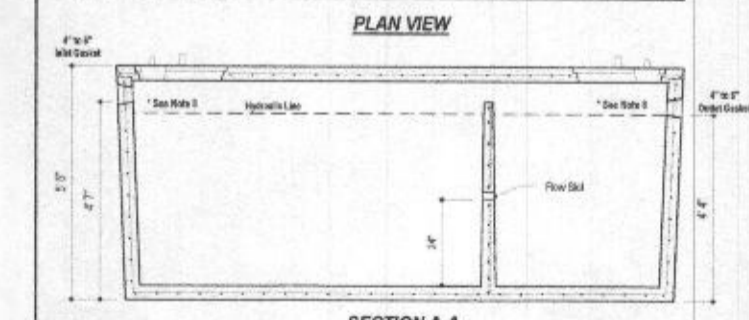
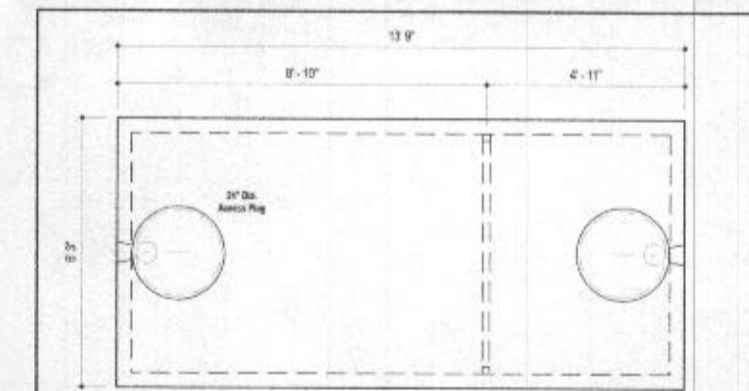


**VICINITY MAP**

1" = 2000'  
 TAX MAP 27, GRID 18

**GENERAL NOTES:**

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- THE EXISTING TOPOGRAPHY SHOWN HEREON IS FROM HOWARD COUNTY GIS AND A TOPOGRAPHIC SURVEY PREPARED BY BOHLER ENGINEERING ON 08/25/15 AND REVISED ON 09/03/15.



**DESIGN DATA & GENERAL NOTES:**

- Minimum trench depth shall be 24" below finished grade.
- Minimum trench width shall be 36" for 3" pipe.
- Minimum trench width shall be 48" for 4" pipe.
- Minimum trench width shall be 60" for 6" pipe.
- Minimum trench width shall be 72" for 8" pipe.
- Minimum trench width shall be 84" for 10" pipe.
- Minimum trench width shall be 96" for 12" pipe.
- Minimum trench width shall be 108" for 14" pipe.
- Minimum trench width shall be 120" for 16" pipe.
- Minimum trench width shall be 132" for 18" pipe.
- Minimum trench width shall be 144" for 20" pipe.
- Minimum trench width shall be 156" for 22" pipe.
- Minimum trench width shall be 168" for 24" pipe.
- Minimum trench width shall be 180" for 26" pipe.
- Minimum trench width shall be 192" for 28" pipe.
- Minimum trench width shall be 204" for 30" pipe.
- Minimum trench width shall be 216" for 32" pipe.
- Minimum trench width shall be 228" for 34" pipe.
- Minimum trench width shall be 240" for 36" pipe.
- Minimum trench width shall be 252" for 38" pipe.
- Minimum trench width shall be 264" for 40" pipe.
- Minimum trench width shall be 276" for 42" pipe.
- Minimum trench width shall be 288" for 44" pipe.
- Minimum trench width shall be 300" for 46" pipe.
- Minimum trench width shall be 312" for 48" pipe.
- Minimum trench width shall be 324" for 50" pipe.
- Minimum trench width shall be 336" for 52" pipe.
- Minimum trench width shall be 348" for 54" pipe.
- Minimum trench width shall be 360" for 56" pipe.
- Minimum trench width shall be 372" for 58" pipe.
- Minimum trench width shall be 384" for 60" pipe.
- Minimum trench width shall be 396" for 62" pipe.
- Minimum trench width shall be 408" for 64" pipe.
- Minimum trench width shall be 420" for 66" pipe.
- Minimum trench width shall be 432" for 68" pipe.
- Minimum trench width shall be 444" for 70" pipe.
- Minimum trench width shall be 456" for 72" pipe.
- Minimum trench width shall be 468" for 74" pipe.
- Minimum trench width shall be 480" for 76" pipe.
- Minimum trench width shall be 492" for 78" pipe.
- Minimum trench width shall be 504" for 80" pipe.
- Minimum trench width shall be 516" for 82" pipe.
- Minimum trench width shall be 528" for 84" pipe.
- Minimum trench width shall be 540" for 86" pipe.
- Minimum trench width shall be 552" for 88" pipe.
- Minimum trench width shall be 564" for 90" pipe.
- Minimum trench width shall be 576" for 92" pipe.
- Minimum trench width shall be 588" for 94" pipe.
- Minimum trench width shall be 600" for 96" pipe.
- Minimum trench width shall be 612" for 98" pipe.
- Minimum trench width shall be 624" for 100" pipe.
- Minimum trench width shall be 636" for 102" pipe.
- Minimum trench width shall be 648" for 104" pipe.
- Minimum trench width shall be 660" for 106" pipe.
- Minimum trench width shall be 672" for 108" pipe.
- Minimum trench width shall be 684" for 110" pipe.
- Minimum trench width shall be 696" for 112" pipe.
- Minimum trench width shall be 708" for 114" pipe.
- Minimum trench width shall be 720" for 116" pipe.
- Minimum trench width shall be 732" for 118" pipe.
- Minimum trench width shall be 744" for 120" pipe.
- Minimum trench width shall be 756" for 122" pipe.
- Minimum trench width shall be 768" for 124" pipe.
- Minimum trench width shall be 780" for 126" pipe.
- Minimum trench width shall be 792" for 128" pipe.
- Minimum trench width shall be 804" for 130" pipe.
- Minimum trench width shall be 816" for 132" pipe.
- Minimum trench width shall be 828" for 134" pipe.
- Minimum trench width shall be 840" for 136" pipe.
- Minimum trench width shall be 852" for 138" pipe.
- Minimum trench width shall be 864" for 140" pipe.
- Minimum trench width shall be 876" for 142" pipe.
- Minimum trench width shall be 888" for 144" pipe.
- Minimum trench width shall be 900" for 146" pipe.
- Minimum trench width shall be 912" for 148" pipe.
- Minimum trench width shall be 924" for 150" pipe.
- Minimum trench width shall be 936" for 152" pipe.
- Minimum trench width shall be 948" for 154" pipe.
- Minimum trench width shall be 960" for 156" pipe.
- Minimum trench width shall be 972" for 158" pipe.
- Minimum trench width shall be 984" for 160" pipe.
- Minimum trench width shall be 996" for 162" pipe.
- Minimum trench width shall be 1008" for 164" pipe.
- Minimum trench width shall be 1020" for 166" pipe.
- Minimum trench width shall be 1032" for 168" pipe.
- Minimum trench width shall be 1044" for 170" pipe.
- Minimum trench width shall be 1056" for 172" pipe.
- Minimum trench width shall be 1068" for 174" pipe.
- Minimum trench width shall be 1080" for 176" pipe.
- Minimum trench width shall be 1092" for 178" pipe.
- Minimum trench width shall be 1104" for 180" pipe.
- Minimum trench width shall be 1116" for 182" pipe.
- Minimum trench width shall be 1128" for 184" pipe.
- Minimum trench width shall be 1140" for 186" pipe.
- Minimum trench width shall be 1152" for 188" pipe.
- Minimum trench width shall be 1164" for 190" pipe.
- Minimum trench width shall be 1176" for 192" pipe.
- Minimum trench width shall be 1188" for 194" pipe.
- Minimum trench width shall be 1200" for 196" pipe.
- Minimum trench width shall be 1212" for 198" pipe.
- Minimum trench width shall be 1224" for 200" pipe.

**BACK RIVER PRE-CAST, LLC**  
 2,000 GALLON SEPTIC TANK  
 2-Compartment  
 Stock Item (Approx. 19,900 lbs)  
 Orig. No. 2003-02 No. Scale Aug 14, 2008

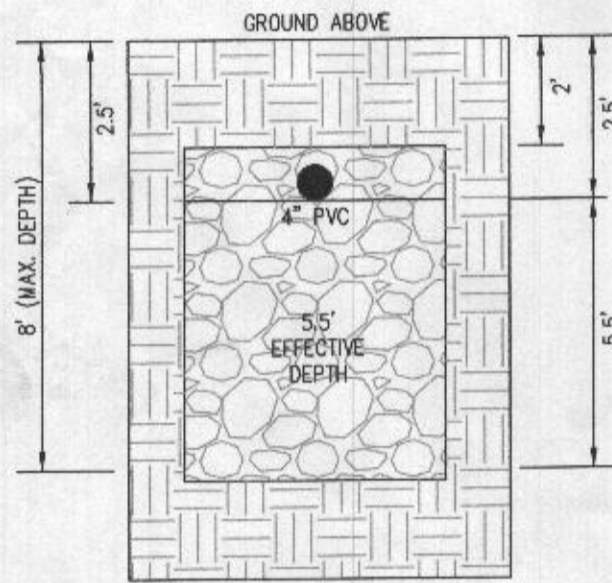
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/23.

**LEGEND:**

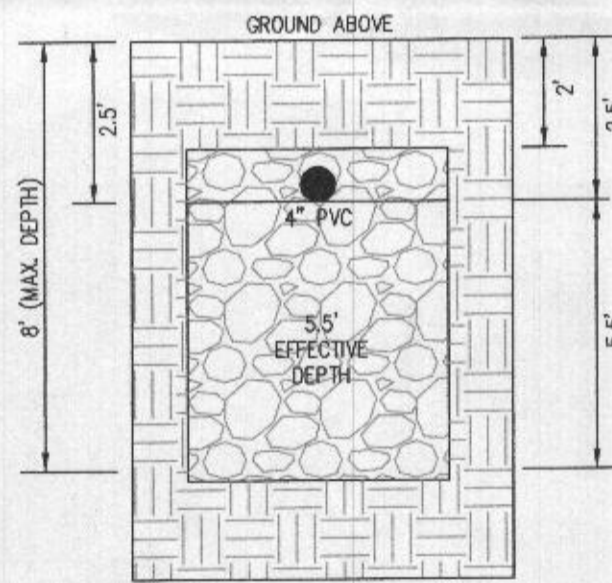
- BRL BUILDING RESTRICTION LINE
- WELL LOCATION
- T.W. TOP OF WALL
- C.F. GARAGE FLOOR
- B.F. BASEMENT FLOOR
- DW DRYWELL
- PASSED PERC LOCATION
- SEWAGE DISPOSAL AREA
- WELL BOX AREA
- PROPOSED TREE
- PROPOSED TREE
- SOIL DELINEATION LINE

**INITIAL TRENCH DATA**

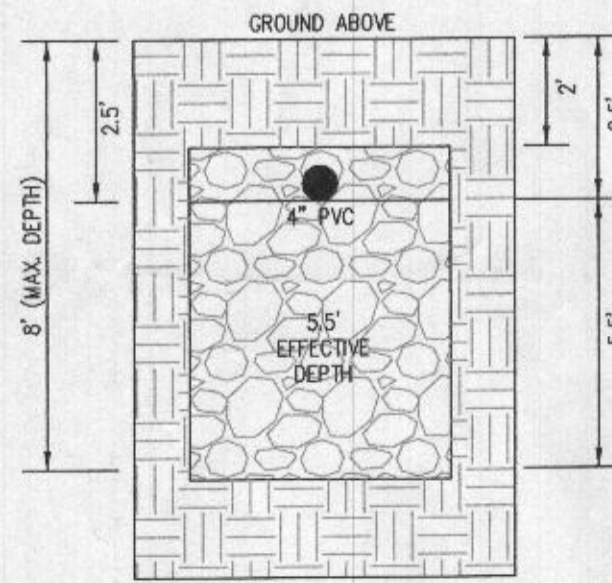
BOTTOM MAX. DEPTH (8')  
**TRENCH 1 (T1): 82.50 LF.**  
 GROUND ABOVE = 480.20'  
 INV. IN = 477.70'  
 BOTTOM TRENCH = 472.20'



**INITIAL SYSTEM TRENCH DETAIL (T1)**  
(NOT TO SCALE)



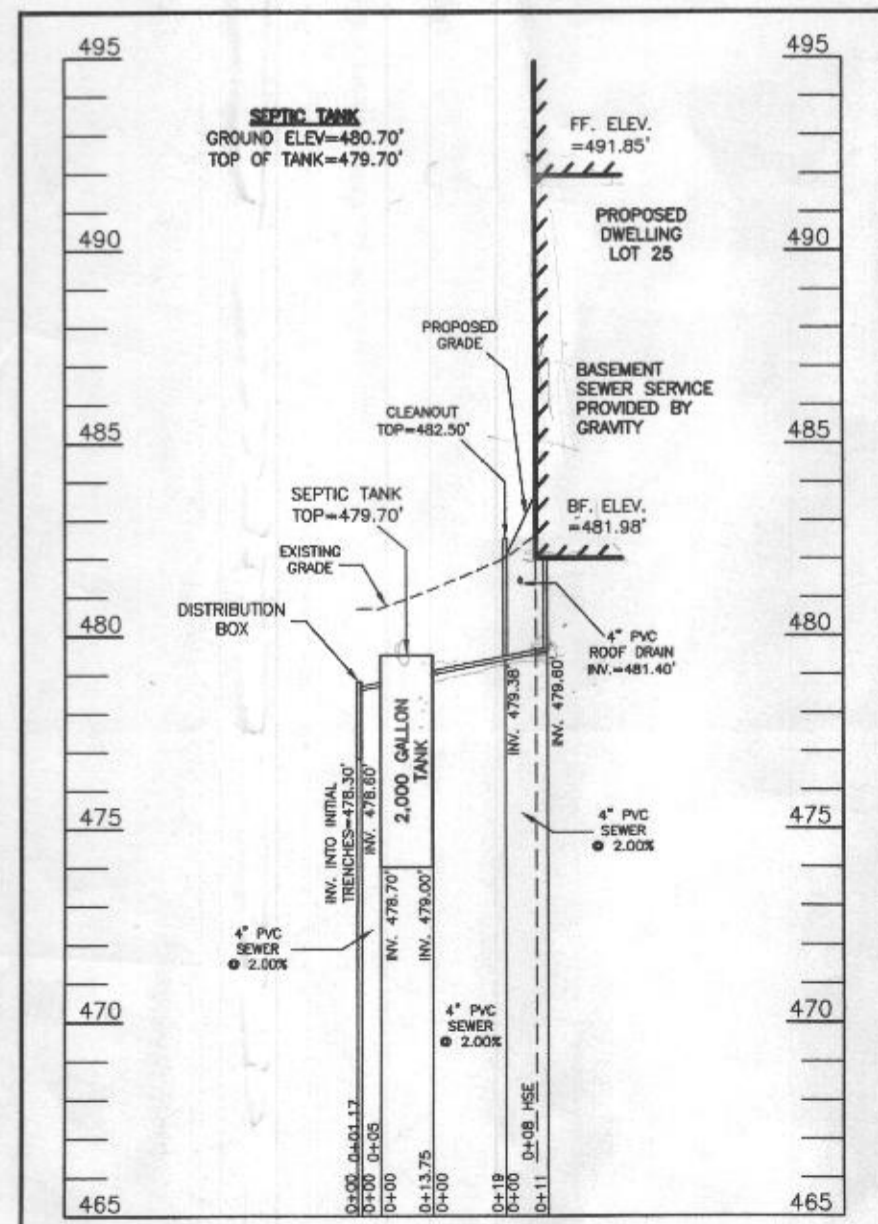
**1ST REPLACEMENT SYSTEM TRENCH DETAIL (T2 AND T3)**  
(NOT TO SCALE)



**2ND REPLACEMENT SYSTEM TRENCH DETAIL (T4 AND T5)**  
(NOT TO SCALE)

**SOILS LEGEND**

SOIL	NAME	CLASS	Kw
GnB	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	.43
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	.28
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	.28



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

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

- PROPOSED INVERT AT FOUNDATION WALL: 479.61'
- EX. GRADE OVER TANK: 480.70'  
 PROPOSED GRADE OVER TANK: 480.70'  
 INVERT IN: 479.00' INVERT OUT: 478.70'
  - DISTRIBUTION BOX  
 EXISTING GRADE OVER TANK: 480.60'  
 PROPOSED GRADE OVER TANK: 480.80'  
 INVERT IN: 478.60' INVERT OUT: 478.30'
  - INITIAL TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)  
 900 GPD ÷ 1.2 APP. RATE = 750 SF  
 USE 3" WIDE TRENCH WITH XX" GRAVEL BELOW PIPE  
 14' MIN. SPACING BETWEEN TRENCH EDGES  
 750 SF ÷ 3" WIDTH = 250 LF x 0.33 (SIDEWALL REDUCTION) = 82.50 LF MIN.  
**USE 1 82.50' LONG TRENCH = 82.50 LF**
  - 1ST REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)  
 900 GPD ÷ 1.2 APP. RATE = 750 SF  
 USE 3" WIDE TRENCH WITH XX" GRAVEL BELOW PIPE  
 14' MIN. SPACING BETWEEN TRENCH EDGES  
 750 SF ÷ 3" WIDTH = 250 LF x 0.33 (SIDEWALL REDUCTION) = 82.50 LF MIN.  
**USE 2 48.25' LONG TRENCHES = 96.50 LF**
  - 2ND REPLACEMENT TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)  
 900 GPD ÷ 1.2 APP. RATE = 750 SF  
 USE 3" WIDE TRENCH WITH XX" GRAVEL BELOW PIPE  
 14' MIN. SPACING BETWEEN TRENCH EDGES  
 750 SF ÷ 3" WIDTH = 250 LF x 0.33 (SIDEWALL REDUCTION) = 82.50 LF MIN.  
**USE 2 48.25' LONG TRENCHES = 96.50 LF**

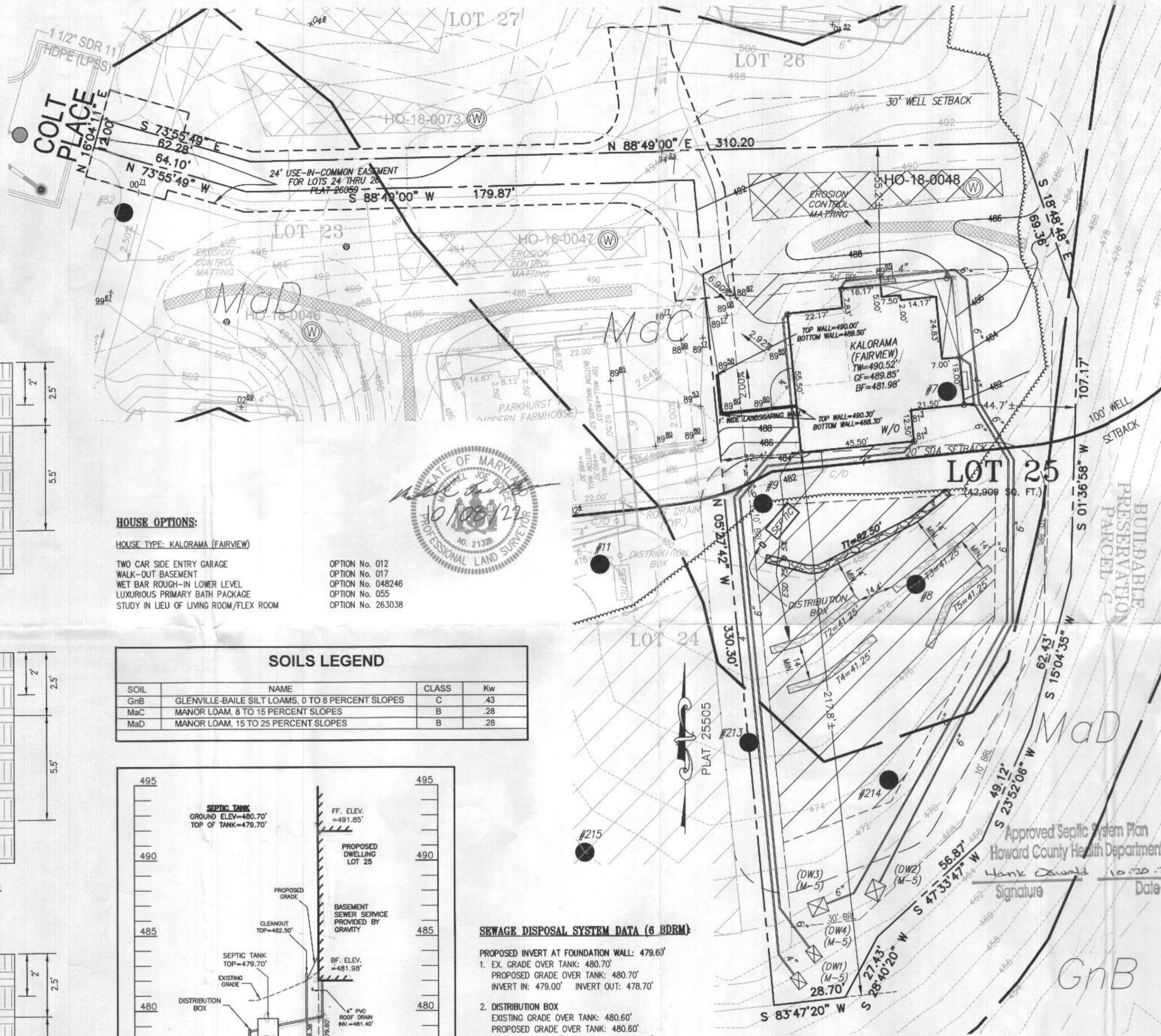
**WELL LOCATION CERTIFICATION:**

THE EXISTING WELL SHOWN FOR LOT 25 (TAG NO. HO-18-0048) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN HEREON.

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN  
**LOT 25 WILLOWSHIRE**  
 LIBER 18479, FOLIO 296  
 PLAT NO. 25505  
 ELECTION DISTRICT No. 5  
 HOWARD COUNTY, MARYLAND  
 ADDRESS: 7001 COLT PLACE  
 DAYTON, MARYLAND 21036

**ESE CONSULTANTS**  
 ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL  
 ESE Consultants, Inc.  
 6731 Columbia Gateway Drive • Suite 120 • Columbia, MD 21046  
 T: 410-872-9105

DATE: 10/05/2022 SCALE: 1"= 30' FILE: OSDS LOT 25  
 CHK'D: M.J.B. JOB NO: 4520 DRAWN: R.C.K.

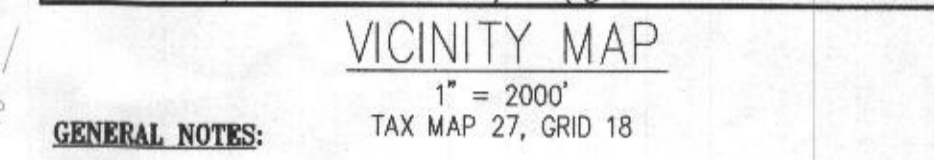


**HOUSE OPTIONS:**

HOUSE TYPE: KALORAMA (FAIRVIEW)

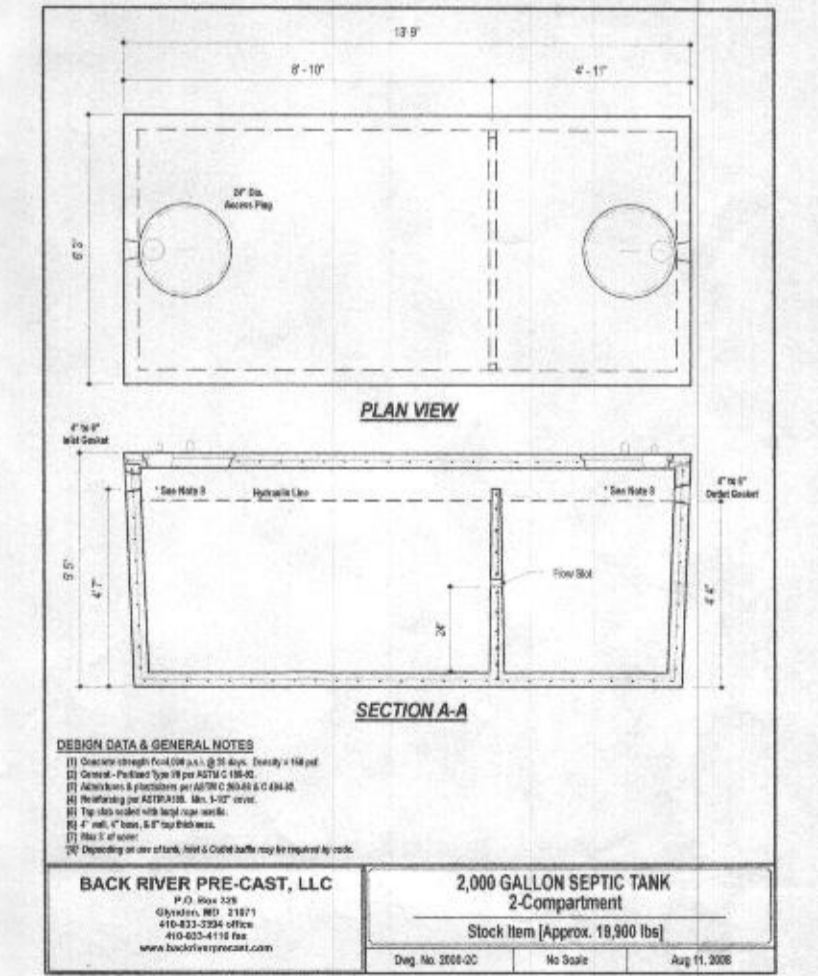
- TWO CAR SIDE ENTRY GARAGE
- WALK-OUT BASEMENT
- WET BAR ROUGH-IN LOWER LEVEL
- LUXURIOUS PRIMARY BATH PACKAGE
- STUDY IN LIEU OF LIVING ROOM/FLEX ROOM

- OPTION No. 012
- OPTION No. 017
- OPTION No. 048246
- OPTION No. 055
- OPTION No. 263038



**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 INTO 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 AND A TOPOGRAPHIC SURVEY PREPARED BY BOHLER ENGINEERING ON 08/25/15 AND REVISED ON 09/03/15.



LEGEND:

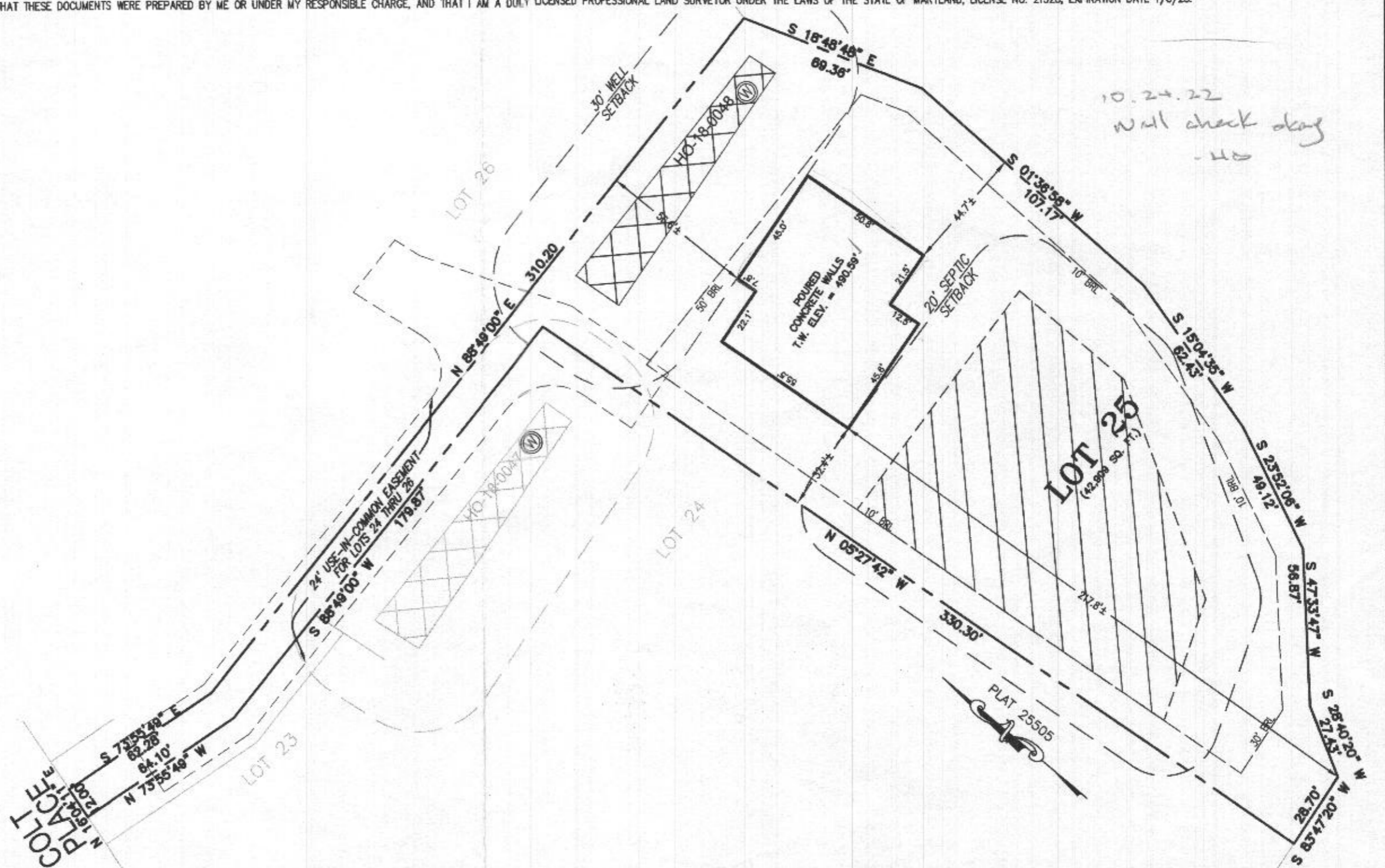
- BRL BUILDING RESTRICTION LINE
- W WELL LOCATION
- T.W. TOP OF WALL
- SEWAGE DISPOSAL AREA
- WELL BOX AREA



HOUSE ENLARGEMENT  
NOT TO SCALE

WELL NUMBER: HO-18-0048  
 ADDRESS: 7001 COLT PLACE  
 DAYTON, MD 21036  
 PERMIT No.: B21002780

BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER SITE DEVELOPMENT 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 MD. LIC NO. DATE: 9/9/22

WALLCHECK  
 LOT 25  
**WILLOWSHIRE**  
 LIBER 18479, FOLIO 296  
 PLAT NO. 25505  
 5th ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**ESE CONSULTANTS**

ENGINEERING • PLANNING • SURVEYING • ENVIRONMENTAL

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

DATE: 09/09/2022 SCALE: 1" = 40' FILE: WC LOT 25  
 CHK'D: M.J.B. JOB NO: 4520 DRAWN: V.X.P.

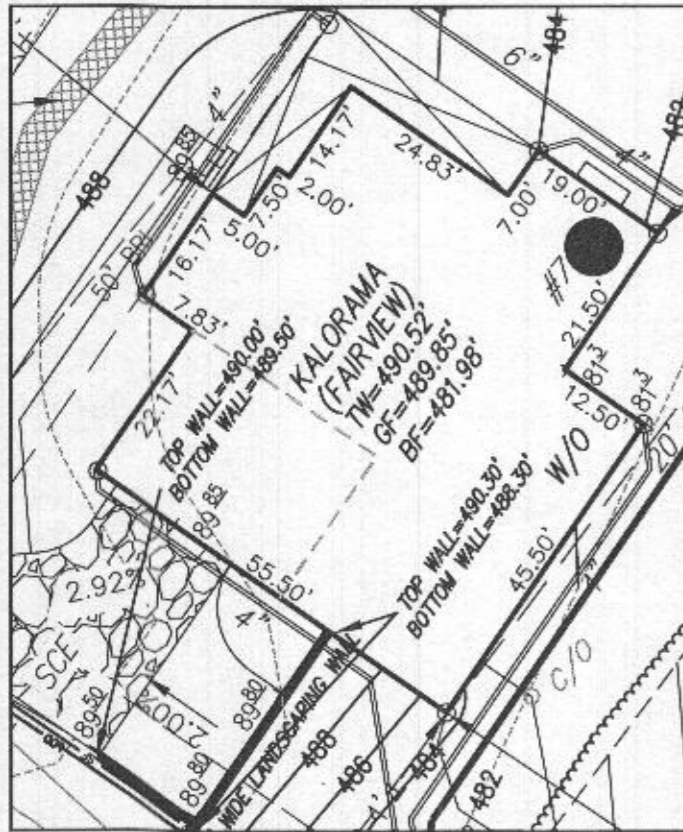


PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21328, EXPIRATION DATE 1/8/23.

**LEGEND:**

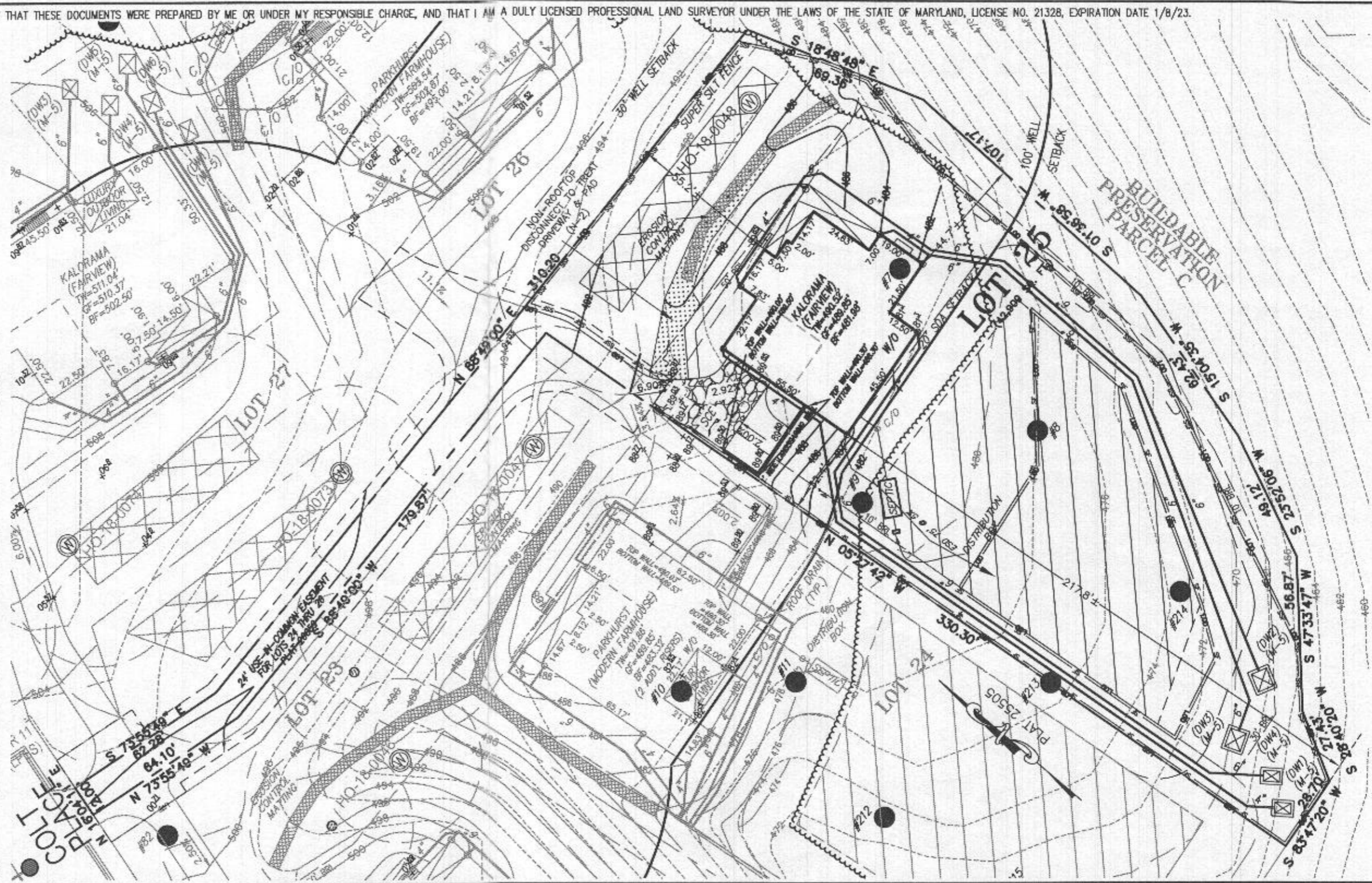
- BRL BUILDING RESTRICTION LINE
- W WELL LOCATION
- T.W. TOP OF WALL
- G.F. GARAGE FLOOR
- B.F. BASEMENT FLOOR
- PASSED PERC LOCATION
- ▨ SEWAGE DISPOSAL AREA
- ▩ WELL BOX AREA
- PROPOSED TREE
- PROPOSED TREE
- SCE STONE CONSTRUCTION ENTRANCE
- SILT FENCE
- SUPER SILT FENCE
- LIMITS OF DISTURBANCE

NOTE:  
TOTAL LIMITS OF DISTURBANCE (LOD) = 29,469 SQ. FT.



HOUSE ENLARGEMENT  
NOT TO SCALE

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



**HOUSE TYPE: KALORAMA (FAIRVIEW)**

- TWO CAR SIDE ENTRY GARAGE
- WALK-OUT BASEMENT
- WET BAR ROUGH-IN LOWER LEVEL
- LUXURIOUS PRIMARY BATH PACKAGE
- STUDY IN LIEU OF LIVING ROOM/FLEX ROOM

- OPTION No. 012
- OPTION No. 017
- OPTION No. 048246
- OPTION No. 055
- OPTION No. 263038

**WELL NUMBER:** HO-18-0048

**ADDRESS:** 7001 COLT PLACE  
DAYTON, MD 21036

PERMIT PLOT PLAN  
**LOT 25**  
**WILLOWSHIRE**  
LIBER 18479, FOLIO 296  
PLAT NO. 25505  
5th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**ESE CONSULTANTS**

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

DATE: 10/05/2022 SCALE: 1" = 40' FILE: PP LOT 25 - KALORAMA FAIRVIEW  
CHK'D: M.J.B. JOB NO: 4520 DRAWN: R.C.K.