

Bureau of Environmental Health

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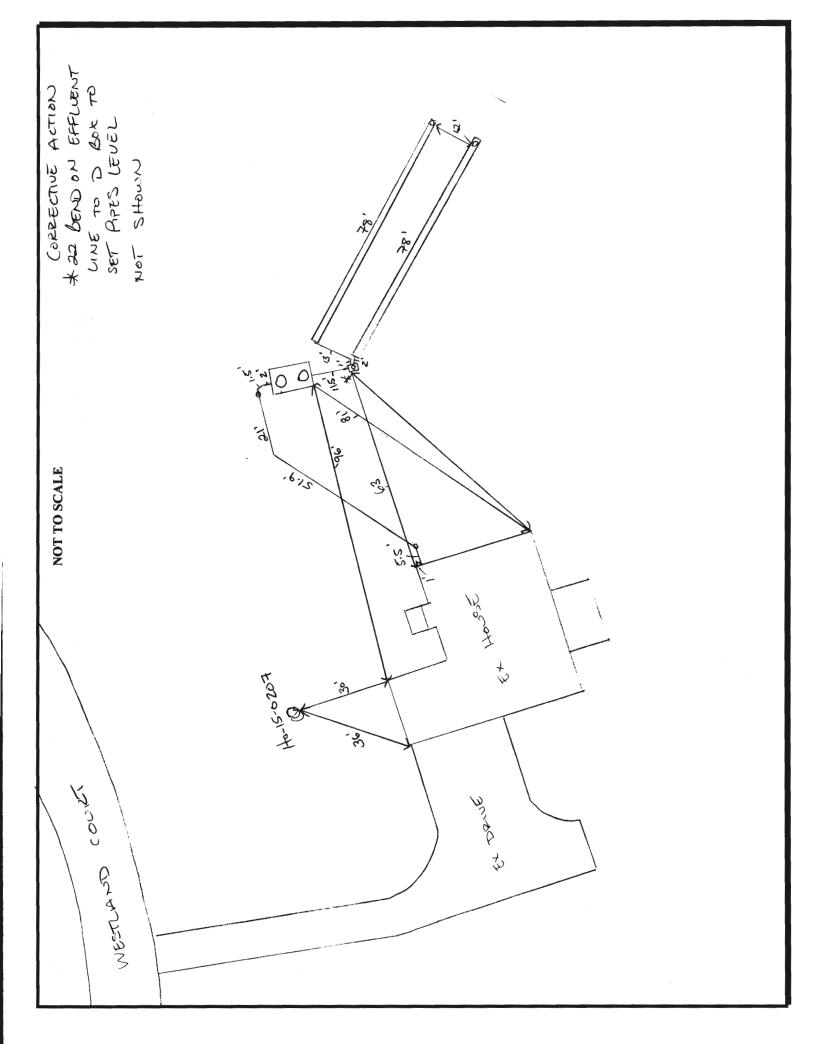
Maura J. Rossman, M.D., Health Officer

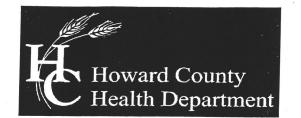
RECEIPT D	DATE: 11/7/19 ONSITE SEWAGE DISPOSAL SYSTEM P 566442	
APPROVAL [DATE: 12 14 2009 PERMIT: CONSTRUCTION A	
PROPERTY A		
SUBDIVISION	: Westland Farm Estates LOT: 13 TAX ID:	
CONTRACTO	R: Hatfield's Equipment EMAIL: <u>ken@hatfieldsequipment.com</u>	
CONTRACTOR	ADDRESS: P.O. Box 519, Annapolis Junction, MD 21701 PHONE: 301-490-4289	
PROPERTY O	WNER: Williamsburg Group Westland Farm LLC EMAIL: billmcbride@williamsburgllc.com	
OWNER ADDR	ESS: 5485 Harpers Farm Road, Columbia, MD 21044 PHONE: 410-997-8800	
SEPTIC TANK S	IZE (GALLONS): 2000 TANK MANUFACTURER: Babylon Vault	
PUMP MODEL:	PUMP TANK CAPACITY:	
DISTRIBUTIO	N SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 6 APPLICATION RATE: 1.2	
	LINEAR FEET REQUIRED: 156 INLET DEPTH: 4	
TRENCHES:	TRENCH WIDTH: 3 MAXIMUM BOTTOM DEPTH: 🎉 🤫	
	MINIMUM SPACE	
	BETWEEN TRENCHES: 10 EFFECTIVE AREA BEGINNING DEPTH: 5	
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
	If fall cannot be created then a pump will be required	
NOTES:		
ISSUED BY:	Robert Freemon ISSUE DATE: 11/7/19 EXPIRATION DATE: 11/7/20	
	RACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION	
	RACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING	
	E MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.	
	ERTIGHT TANKS REQUIRED	
	ARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL HOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS	
NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM		
\Box ELECTRICAL PERMIT ISSUED E $\nearrow / \Leftrightarrow$		
	RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE ISURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA	
NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE		
	CUCCECCEU ODERATION OF ANY SYSTEM	

SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT. CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

NUMBER OF TRENCHES 2 TOTAL LENGTH 156 E ABSORPTION AREA 468 SE DISTRIBUTION BOX LEVEL SPE	TTOM
DISTRIBUTION BOX BAFFLE YE DISTRIBUTION BOX PORT YES	S SIDE WALL
SEPTIC TANK DATA SEPTIC TANK I LEVEL MANUFACTURER DATA SEAM LOC TO? TANK LID DEPTH BAFFLES YES BAFFLE FILTER MANUFACTURER MANUFACTURER MANHOLE LOC WATERTICHT TEST SLOTTED MANUFACTURER CAPACITY SEAM LOC TANK LID DEPTH BAFFLES BAFFLE FILTER MANUFACTURER CAPACITY SEAM LOC TANK LID DEPTH BAFFLES BAFFLE FILTER MANUFACTURER CAPACITY SEAM LOC TANK LID DEPTH BAFFLES BAFFLE FILTER MANHOLE LOC 6" PORT LOC WATERTICHT TEST	GAL GAL GAL GAL
ROAD NAME SLOTTED DATE ON LID	
PRE-CONSTRUCTION: 11/22/2019 TANK, SDA, TRENCHES STAKED. CONTOUR CHECKET CONTRACTOR IS CONTOUR FOUNDATION FOR SHI NOTIFIED OF 1% FAH SPEC ON OSDS. MARKED 100' W ARC FOR TANK PLACEMENT. OK TO START. (FO	<u>c.</u>
INSTALLATION: 12/3/2009 SHC SL, TANK, AND D BOX SET . P. 0/4/2009 TRENCHES COMPLETE. COR/ACT REAUGN D BOX TO SET LEVELS. COMPAT INSPECTION. D BOX LEVELED W/ STEED LEVELS. OK TO PACKFILLIED	<u>ριε</u> π ι
FINAL INSPECTOR DATE OF APPROVAL 12 H 2019	





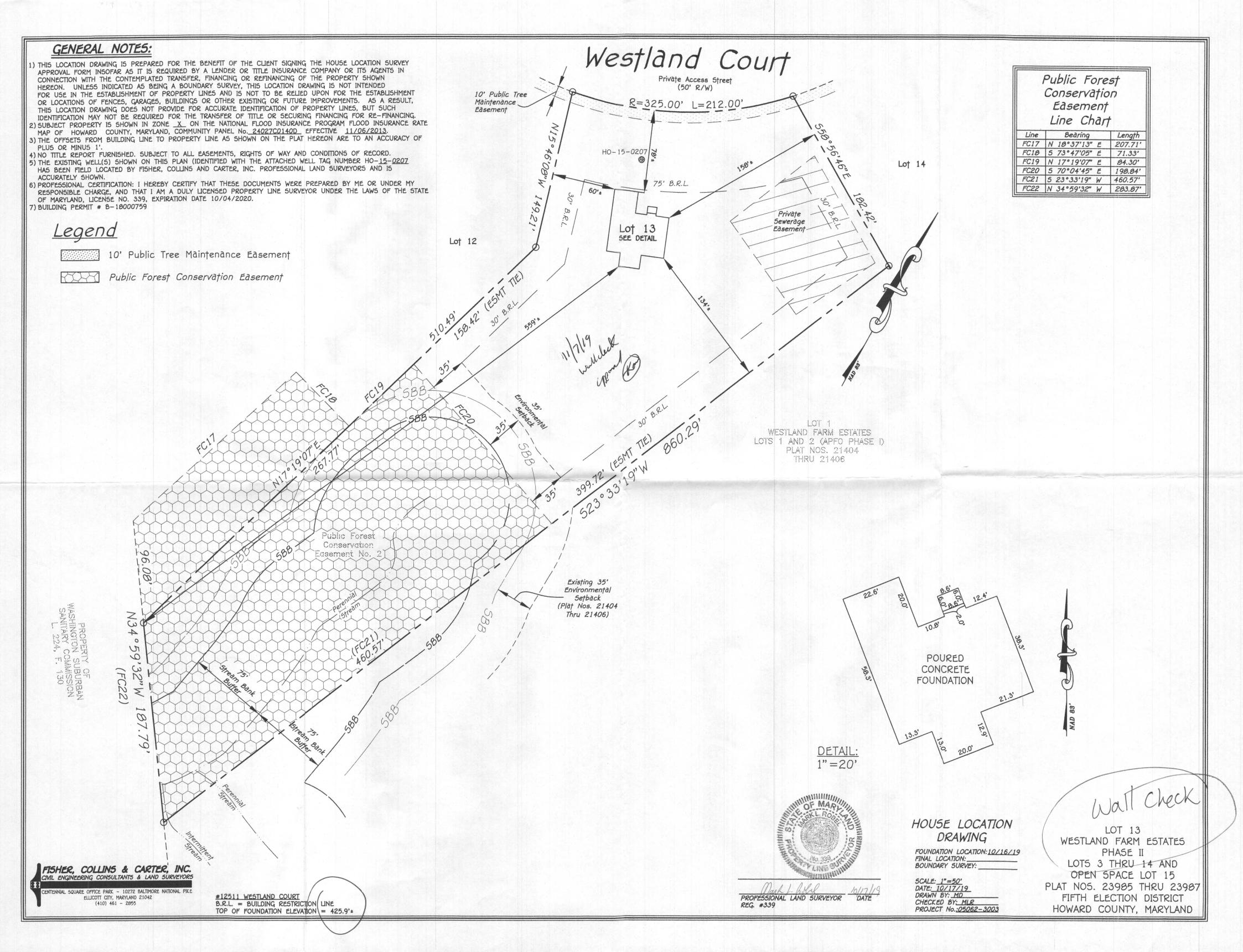
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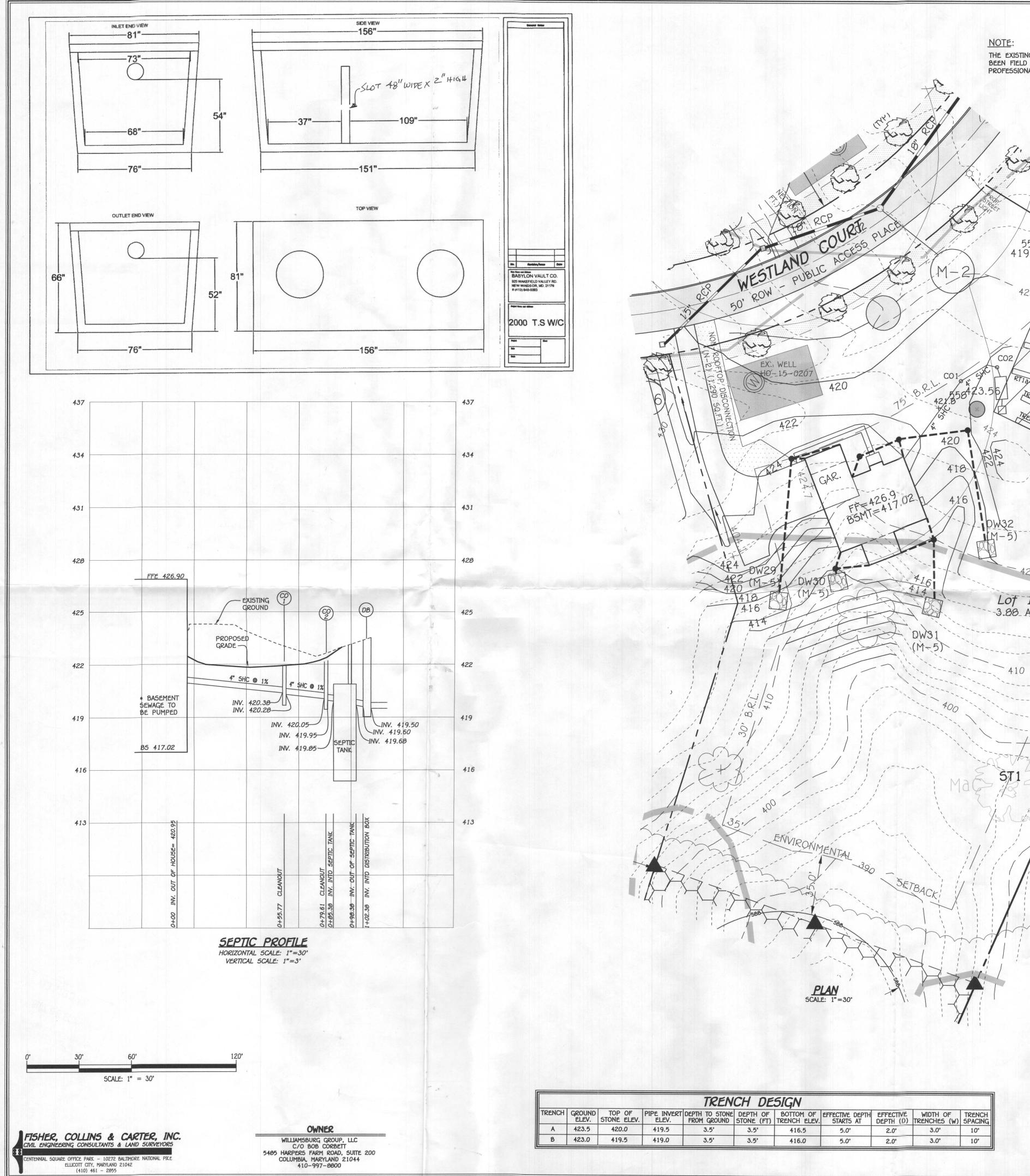
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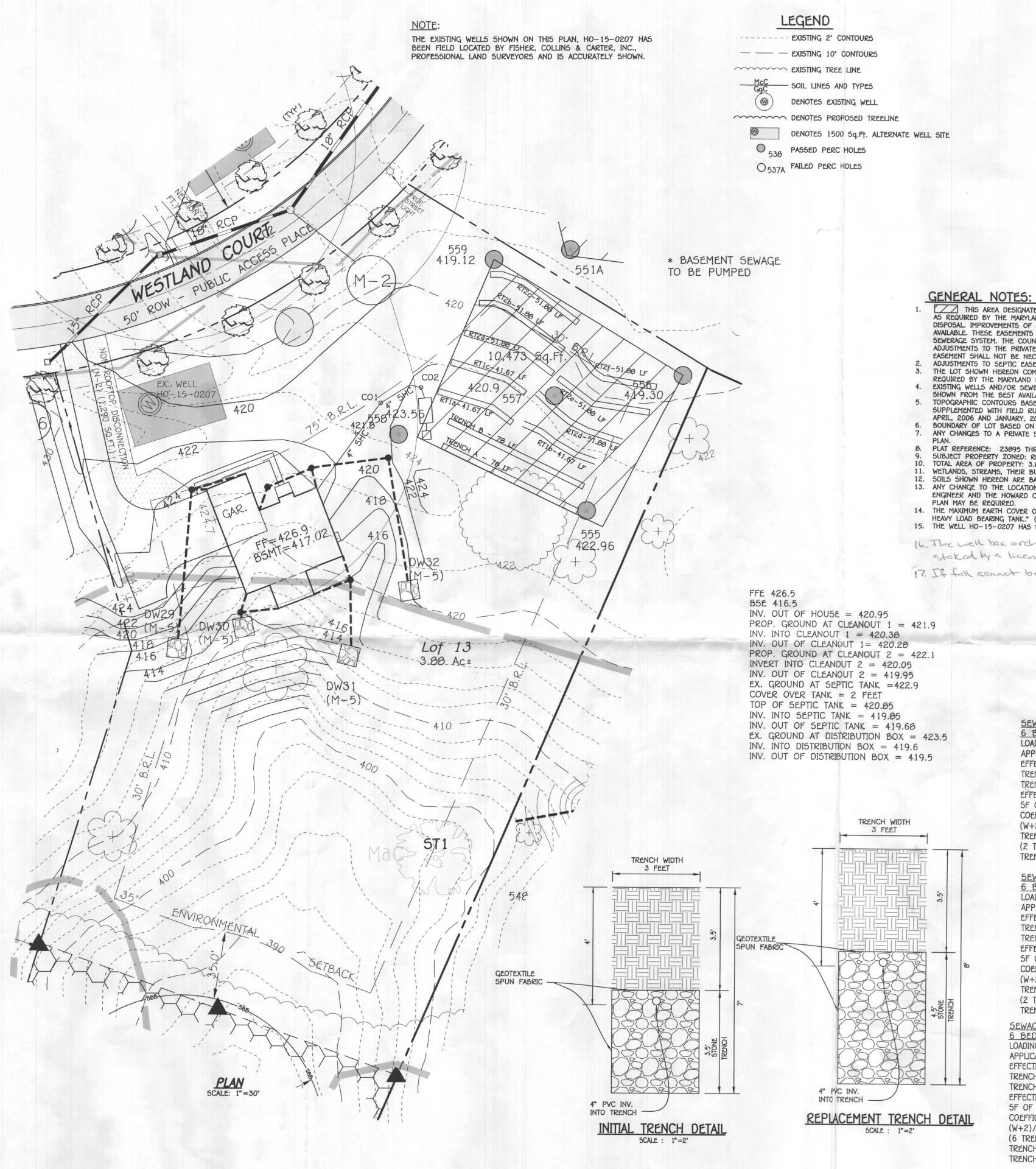
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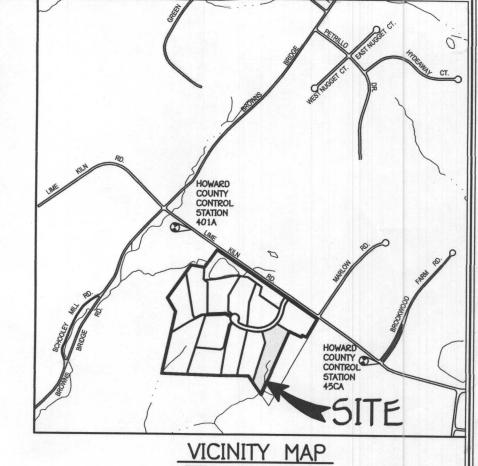
SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET
Address:
Subdivision: Westland Form Estats Lot: Lot13
Initial system: Application rate: 1.2 Effective area beginning depth: 5 Bottom maximum depth: 7
1 st Replacement: Application rate: 152 Effective area beginning depth: 5 Bottom maximum depth: 6
2 nd Replacement: Application rate: 0.8 Effective area beginning depth: 7 Bottom maximum depth: 8
Design Flow = 150 gallons per day per bedroom
Design flow ÷ application rate = square footage of drainfield required
Linear length of trench required = drainfield square footage x sidewall reduction percentage ÷ trench width
Sidewall reduction credit formula: W+2 W+1+2D x 100 = Percent of length of standard trench where W=trench width and D= depth between effective area beginning depth and trench bottom. Standard design requirements: All trenches must be equal length unless low pressure dosed All trenches must be on contour 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 18'. 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 all trenders away from 556.
Approved: Hank aswald Date: 5/18/15



3/05/062-3/003 Ht. LOT 13.dwg. 10/22/2019 8/4/2:00 AM, \\SRV1.fcc-eng.local\yIP PageWide Xt. 5/000







SCALE : 1" = 1200'

THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.

ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS

REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT. EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.

TOPOGRAPHIC CONTOURS BASED ON HARFORD AERIAL SURVEYS, INC. DATED JANUARY 2006 AND SUPPLEMENTED WITH FIELD RUN TOPOGRAPHY BY FISHER, COLLINS & CARTER, INC ON OR ABOUT

BOUNDARY OF LOT BASED ON PLAT #23906 AND FIELD SURVEY BY FISHER, COLLINS & CARTER, INC. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION

8. PLAT REFERENCE: 23895 THRU 23987.

SUBJECT PROPERTY ZONED: RR-DEO

10. TOTAL AREA OF PROPERTY: 3.88 AC.

11. WETLANDS, STREAMS, THEIR BUFFERS, FLOODPLAIN, AND STEEP SLOPES DO NOT EXIST ON THIS LOT. 12. SOILS SHOWN HEREON ARE BASED ON NRCS WEB SOIL SURVEY AND HOWARD COUNTY SOILS MAP 3. 13. 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

14. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK." (IF NOT A LOAD BEARING SEPTIC TANK)

15. THE WELL HO-15-0207 HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC.

16. The well box arch, septic tank and SDA must be professionally staked by a licensed surveyor prior to installation.

17. If fall cannot be created a pump tark may be required.

SEWAGE DISPOSAL SYSTEM DATA - INITIAL SYSTEM 6 BEDROOMS

LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD APPLICATION RATE = 1.2 EFFECTIVE SIDEWALL BEGINS AT 5 FEET TRENCH DEPTH = 7 FEET TRENCH WIDTH (W) = 3 FEET EFFECTIVE DEPTH (D) = 2 FEET SF OF DRAINFIELD = 900 GPD / 1.2 = 750 SF

COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+20)=(3+2)/(3+1+(2x2)=0.625TRENCH LENGTH = 750 SF x 0.625 / 3 = 156.3 FEET(2 TRENCHES AT 78.00')

TRENCH SPACING = 2D+W = ((2*2) + 3) = 7' USE 10'

SEWAGE DISPOSAL SYSTEM DATA - 15T REPLACEMENT SYSTEM 6 BEDROOMS LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD APPLICATION RATE = 1.2

EFFECTIVE SIDEWALL BEGINS AT 5 FEET TRENCH DEPTH = 8 FEET TRENCH WIDTH (W) = 3 FEET EFFECTIVE DEPTH (D) = 3 FEET SF OF DRAINFIELD = 900 GPD / 1.2 = 750 SF COEFFICIENT OF REDUCTION OF TRENCH LENGTH =

(W+2)/(W+1+2D)=(3+2)/(3+1+(2x3)=0.50TRENCH LENGTH = 750 SF x 0.5 / 3 = 125 FEET(2 TRENCHES AT 62.50')

TRENCH SPACING = 2D+W = ((2*3) + 3) = 8' USE 10' SEWAGE DISPOSAL SYSTEM DATA - 2ND REPLACEMENT SYSTEM

6 BEDROOMS LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD APPLICATION RATE = 0.8 EFFECTIVE SIDEWALL BEGINS AT 7 FEET

TRENCH DEPTH = 8 FEET TRENCH WIDTH (W) = 3 FEET EFFECTIVE DEPTH (D) = 1 FEET SF OF DRAINFIELD = 900 GPD / 0.8 = 1125 SF COEFFICIENT OF REDUCTION OF TRENCH LENGTH =

(W+2)/(W+1+2D)=(3+2)/(3+1+(2x1)=0.03(6 TRENCHES AT 51.88')

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. 38386, EXPIRATION DATE: 01/12/2020.

Signature Of Professional Engineer

TRENCH LENGTH = 1125 SF x 0.83 / 3 = 311.3 FEET TRENCH SPACING = 2D+W = ((2*1) + 3) = 5' USE 10'

> SEPTIC PLAN WESTLAND FARM ESTATES LOT 13

12511 WESTLAND COURT TAX MAP #45 PARCEL: 28 ZONED: RR-DEO THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: AUGUST, 2019