

**VICINITY MAP**  
 COORDINATES: 430000  
 AOC MAP: 4624-77

**BENCHMARKS**  
 HOWARD COUNTY BENCHMARK 088A (CONC. MON.)  
 69098.54 1301408.15 ELEV. 630.72  
 LOCATION: RT-99 WEST OF ROUND GATE CT.  
 HOWARD COUNTY BENCHMARK 088A (CONC. MON.)  
 690215.04 E 1299547.59 ELEV. 606.57  
 LOCATION: RT-99 EAST OF ADAGE CT.

**LEGEND:**

	PROPERTY LINE
	ADJACENT PROPERTY LINE
	RIGHT-OF-WAY LINE
	EXISTING EDGE OF PAVING
	EXISTING WELL
	EXISTING REEL LINE
	EXISTING 10' CONTOUR
	EXISTING 2' CONTOUR
	SEWER SERVICE AREA
	AREA TO BE MAINTAINED/MANAGED
	GREAT AND UTILITY EASEMENT
	RIGHT-OF-WAY
	RIGHT-OF-WAY
	EXISTING VARIABLE WIDTH PRIVATE EASEMENT
	PROPOSED 10' CONTOUR
	PROPOSED 2' CONTOUR
	PROPOSED SPOT ELEVATION
	PAVED PERC. TEST

**OWNER/DEVELOPER**  
 DAVID B. MELLON  
 C/O MICHELLE COURT  
 4134 PENNINGTON COURT  
 ELLICOTT CITY, MD 21043  
 (443) 545-4468

**ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN**

**MINGLEWOOD - LOT 4**  
 14860 OLD FREDERICK ROAD  
 WOODBINE, MD 21797  
 (3.18 AC.)

PARCEL: 28  
 ZONED: RC-DEO  
 HOWARD COUNTY, MARYLAND

**VOGEL ENGINEERING**

**TIMMONS GROUP**

3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043  
 P: 410-461-7666 F: 410-461-8961 www.timmons.com

PROFESSIONAL CERTIFICATE

DESIGN BY: REV. \_\_\_\_\_  
 DRAWN BY: JMR. \_\_\_\_\_  
 CHECKED BY: RHL. \_\_\_\_\_  
 DATE: APRIL 2023  
 SCALE: AS SHOWN  
 M.O. NO.: 2017145

STATE OF MARYLAND  
 PROFESSIONAL ENGINEERS

1 SHEET OF 2



**GENERAL NOTES:**

- THE EXISTING TOPOGRAPHY SHOWN HEREON IS TAKEN FROM FIELD RUN SURVEY WITH 2' CONTOUR INTERVALS AND IS NOT TO BE CONSIDERED AS A GUARANTEE OF ACCURACY. THE EXISTING TOPOGRAPHY IS SUPPLEMENTED WITH CURRENT HOWARD COUNTY GSS DATA, INC., DATED FEBRUARY 2001. INFORMATION IS SUPPLEMENTED WITH THE DATA PROVIDED BY THE CLIENT.
- ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE AREAS WITHIN 100' OF THE PROPOSED SEWAGE DISPOSAL SYSTEMS OR SEWAGE DISPOSAL AREAS SHALL BE MAINTAINED AND REPAIRED AS NECESSARY. PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS SHALL BE MAINTAINED AND REPAIRED AS NECESSARY.
- THE LOT SHOWN HEREON COMPLES WITH THE MINIMUM OWNERSHIP, WIDTH, AND LOT AREA AS REQUIRED BY THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- 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. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.

**SYSTEM CALCULATIONS:**

**INITIAL SYSTEM:**

5 BEDROOMS AT 750gpd / 0.8 ABSORPTION RATE = 938 SQ. FT.  
 938 SQ. FT. / 3 (TRENCH WIDTH) x .36 (SIDEWALL REDUCTION) = 113 LINEAR FEET  
 114 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE INITIAL SYSTEM.  
 (2) TRENCHES OF 57 FEET IN LENGTH

**FIRST REPLACEMENT SYSTEM:**

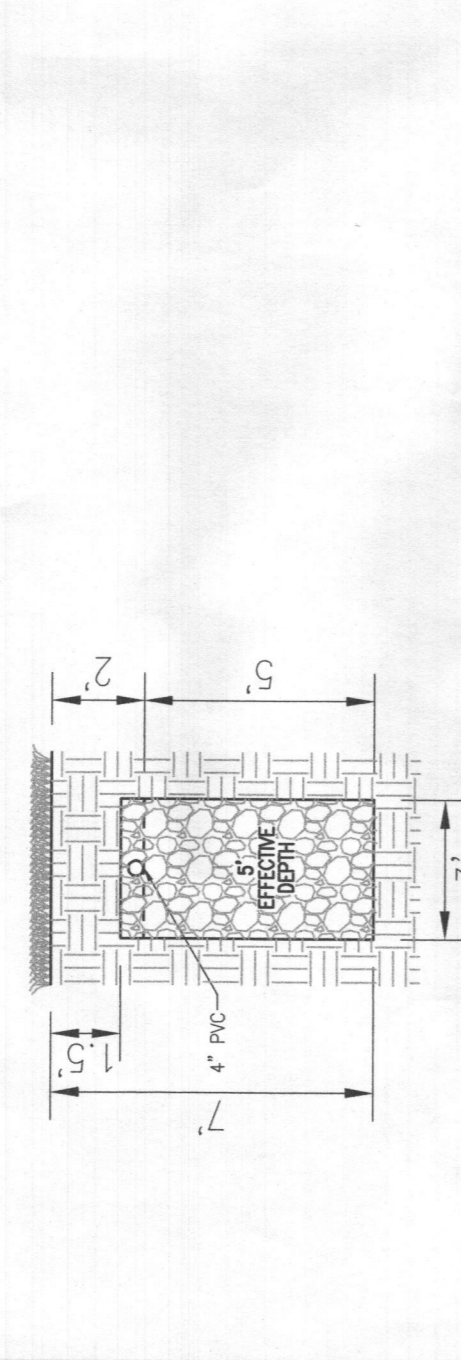
5 BEDROOMS AT 750gpd / 0.8 ABSORPTION RATE = 938 SQ. FT.  
 938 SQ. FT. / 3 (TRENCH WIDTH) x .36 (SIDEWALL REDUCTION) = 119 LINEAR FEET  
 120 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE FIRST REPLACEMENT SYSTEM.  
 (2) TRENCHES OF 60 FEET IN LENGTH

**SECOND REPLACEMENT SYSTEM:**

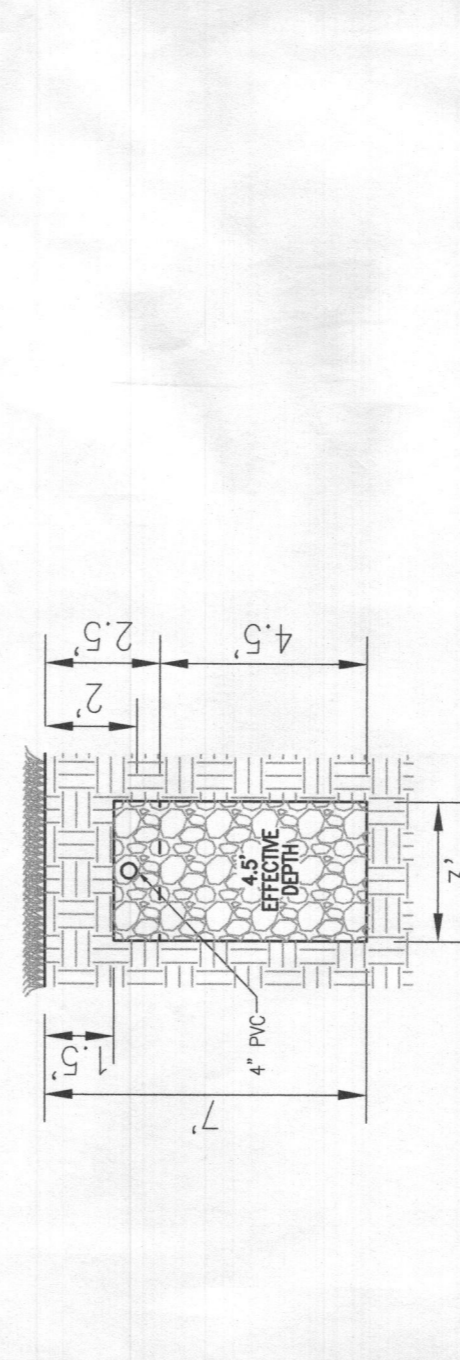
5 BEDROOMS AT 750gpd / 0.8 ABSORPTION RATE = 938 SQ. FT.  
 938 SQ. FT. / 4.2 (SIDEWALL REDUCTION) = 131 LINEAR FEET  
 132 TOTAL LINEAR FEET OF TRENCH ARE PROVIDED WITH THE SECOND REPLACEMENT SYSTEM.  
 (3) TRENCHES OF 44 FEET IN LENGTH

**INITIAL SYSTEM TRENCH INFO.**

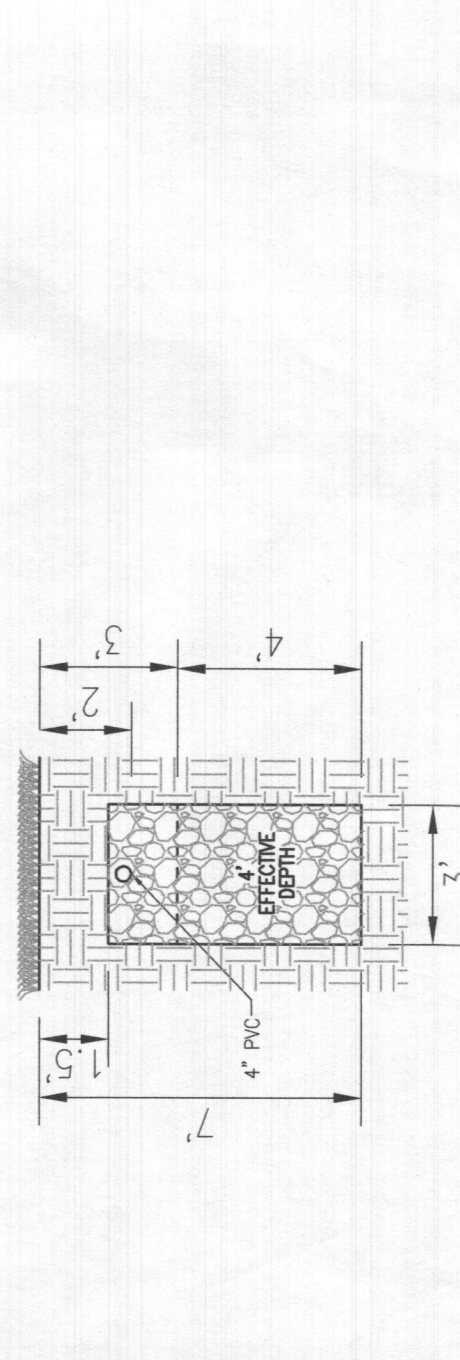
TRENCH	INCH. AND BOTTOM OF EXISTING	LENGTH	WIDTH	DEPTH
1	37" / 62.70	62.20	62.20	62.20
2	57" / 65.35	60.35	60.35	62.75



**INITIAL SYSTEM TRENCH DETAIL**  
 NOT TO SCALE



**FIRST REPLACEMENT SYSTEM TRENCH DETAIL**  
 NOT TO SCALE



**SECOND REPLACEMENT SYSTEM TRENCH DETAIL**  
 NOT TO SCALE

**WELL LOCATION CERTIFICATION:**  
 THE EXISTING WELL SHOWN ON THIS PLAN (AS SHOWN) HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.

**OSDS PLAN VIEW**  
 SCALE: 1"=50'

KELIE SEIFRIED  
 WILLIAMS G. SUNGLIFF  
 THE 8 PARCEL: 26  
 LOT 27A  
 10.03 AC.  
 USE: AGRICULTURAL  
 ZONED: RC-DEO

NICHOLAS J. LALLY  
 THE 8 PARCEL: 27  
 LOT 27A  
 10.03 AC.  
 USE: AGRICULTURAL  
 ZONED: RC-DEO

MARVALE P. MUELLER  
 MARY ELIZABETH DODSON  
 THE 8 PARCEL: 26  
 LOT 3  
 PLAT: 17897  
 USE: RESIDENTIAL  
 ZONED: RC-DEO

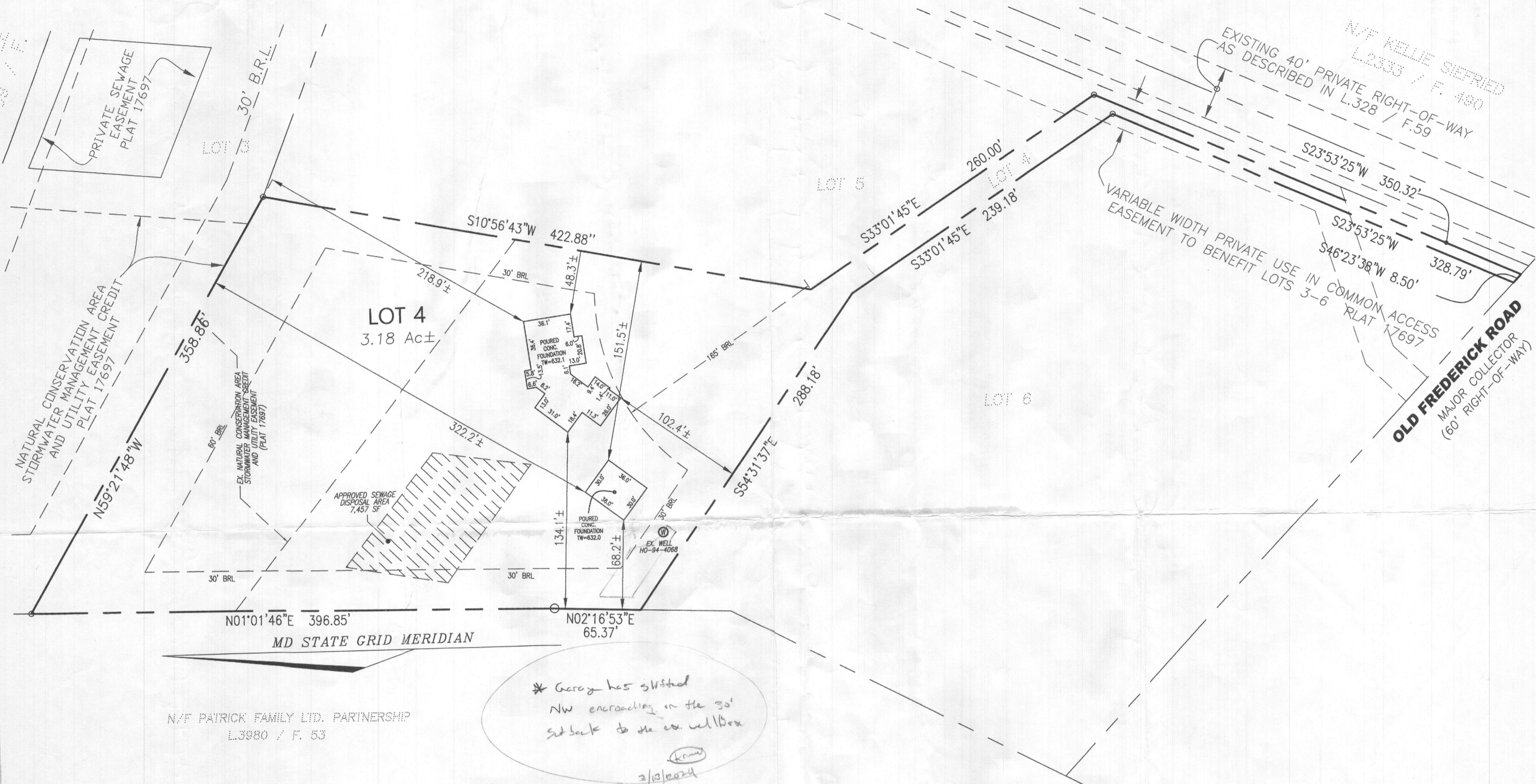
PATRICK FAMILY LTD PARTNERSHIP  
 CO. AND B. STRICK III  
 144.80 AC.  
 ZONED: RC-DEO  
 HOWARD COUNTY AGRICULTURAL  
 LAND PRESERVATION PROGRAM  
 EASEMENT TO BE USED

THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 100' FROM ANY EXISTING OR PROPOSED SEWAGE DISPOSAL SYSTEMS OR SEWAGE DISPOSAL AREAS. ANY IMPROVEMENTS TO ANY SEWAGE DISPOSAL SYSTEMS OR SEWAGE DISPOSAL AREAS SHALL BE MAINTAINED AND REPAIRED AS NECESSARY. PRIVATE SEWAGE AREA RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.





THIS WALL CHECK DRAWING CONTAINS A HORIZONTAL TOLERANCE IN ACCURACY OF 0.1' AND A VERTICAL TOLERANCE IN ACCURACY OF 0.2'



N/F PATRICK FAMILY LTD. PARTNERSHIP  
L3980 / F. 53

*\* Gary has stated  
NW encroaching on the 30'  
set back to the well box  
3/13/2024*

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THAT THE IMPROVEMENTS ARE LOCATED AS SHOWN AND THAT THERE ARE NO ENCROACHMENTS EXCEPT AS SHOWN; THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND.

*Thomas M. Hoffman Jr.*  
THOMAS M. HOFFMAN JR.  
PROPERTY LINE SURVEYOR  
LICENSE NO. 267  
EXP. DATE: JULY 28, 2024

1/24/24  
DATE



SCALE 1" = 50'	DATE 01/24/2024
DRAWN BY J.T.F.	CHECKED BY T.M.H.
PLAT NUMBER 17697	JOB NUMBER 2017145

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WALL CHECK DRAWING  
14850 OLD FREDERICK ROAD  
LOT 4  
MINGLEWOOD  
PLAT NO. 17697  
FOURTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND