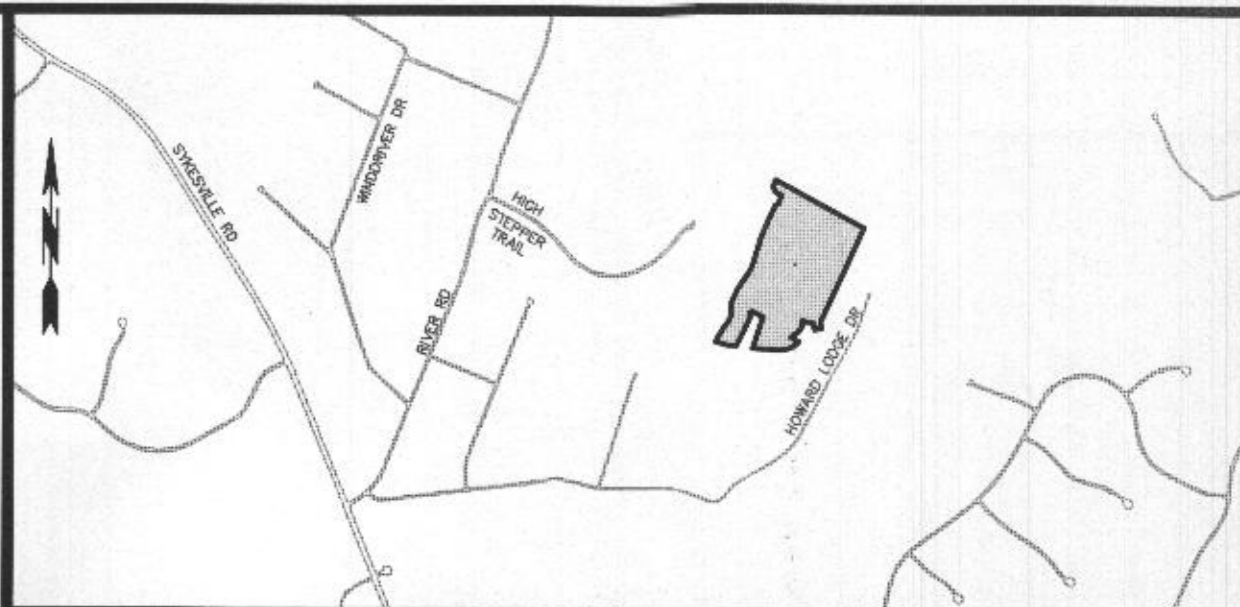
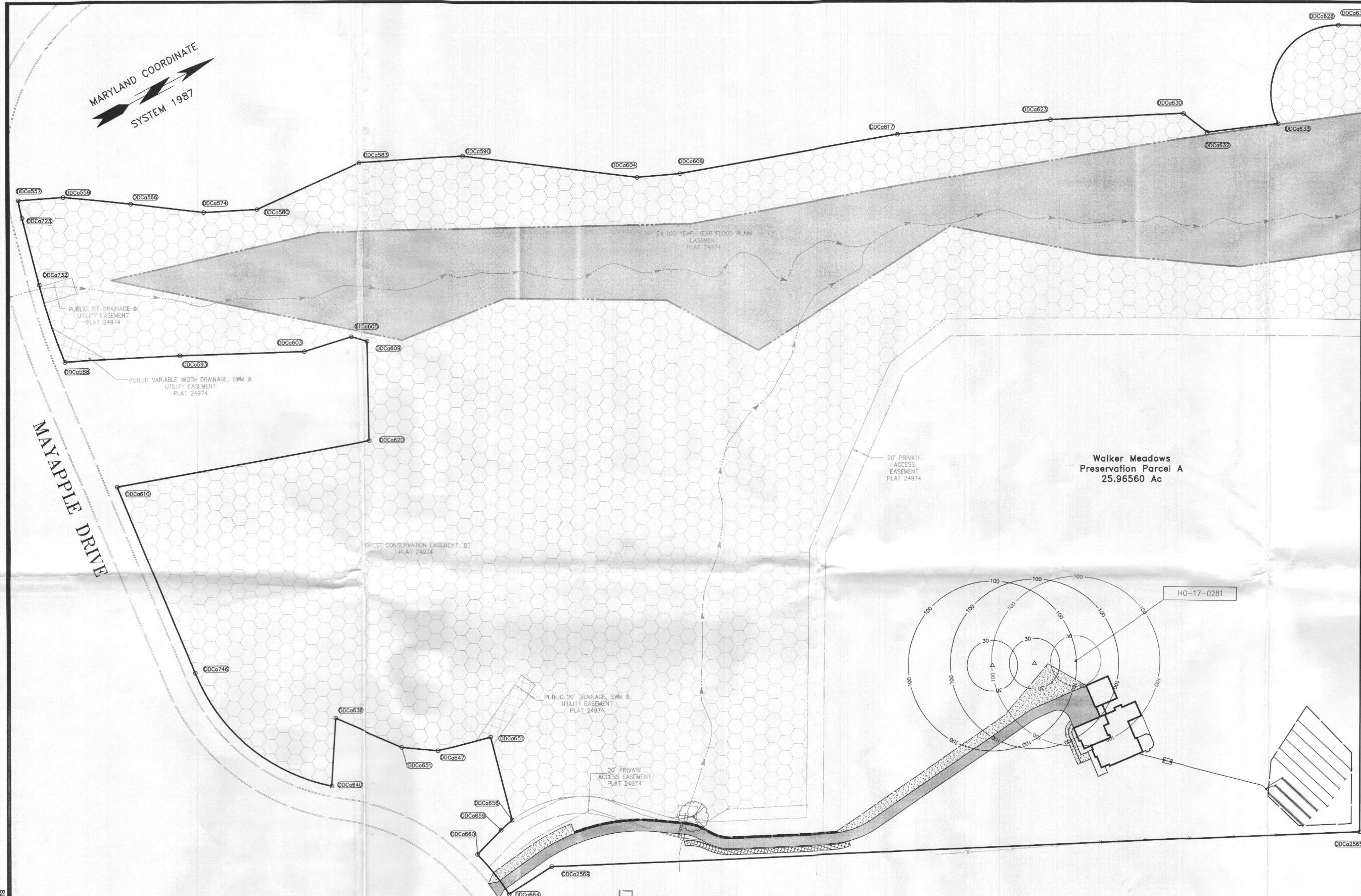


MARYLAND COORDINATE SYSTEM 1987



VICINITY MAP SCALE: 1"=2000'

**LEGEND**

Existing	Proposed
Edge of Rd Feature separation distance in feet	Edge of Rd Feature separation distance in feet
Ind. Contours Int. Contours	Ind. Contours Int. Contours
Lot Line Plat Outline Septic Area	Lot Line Plat Outline Septic Area
Bit. Conc. Pav.	Bit. Conc. Pav.
100 -YEAR FLOODPLAIN	
FOREST CONSERVATION EASEMENT	
PUBLIC DRAINAGE, SWM & UTILITY EASEMENT	
Clean Out, Sewer/Drain Structure	
Well	

Approved Septic System Plan  
Howard County Health Department  
Signature: *[Signature]* Date: 8/15/2020

**ABBREVIATIONS**

B	Basement floor elevation or Book	G	Garage floor elevation
CLR	County Land Record	P	Page
F	First floor elevation	PB	Plat Book

REV.No.	DATE	BY	DESCRIPTION

**REVISIONS**

**D.R.S. & ASSOCIATES**  
LAND DESIGN CONSULTANTS  
52 WINTERS STREET WESTMINSTER, MARYLAND 21157  
410-848-4060 410-876-6040 F. 410-848-8818

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*[Signature]*  
Date: 8/15/2020

**Onsite Sewage Disposal System Design Plan**  
**Walker Meadows**  
**Preservation Parcel A**  
Mayapple Dr Sykesville  
Howard County, Maryland 21784

**OWNER**  
Cary K & Lisa A Cumberland  
815 Windriver Dr  
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410-977-2188

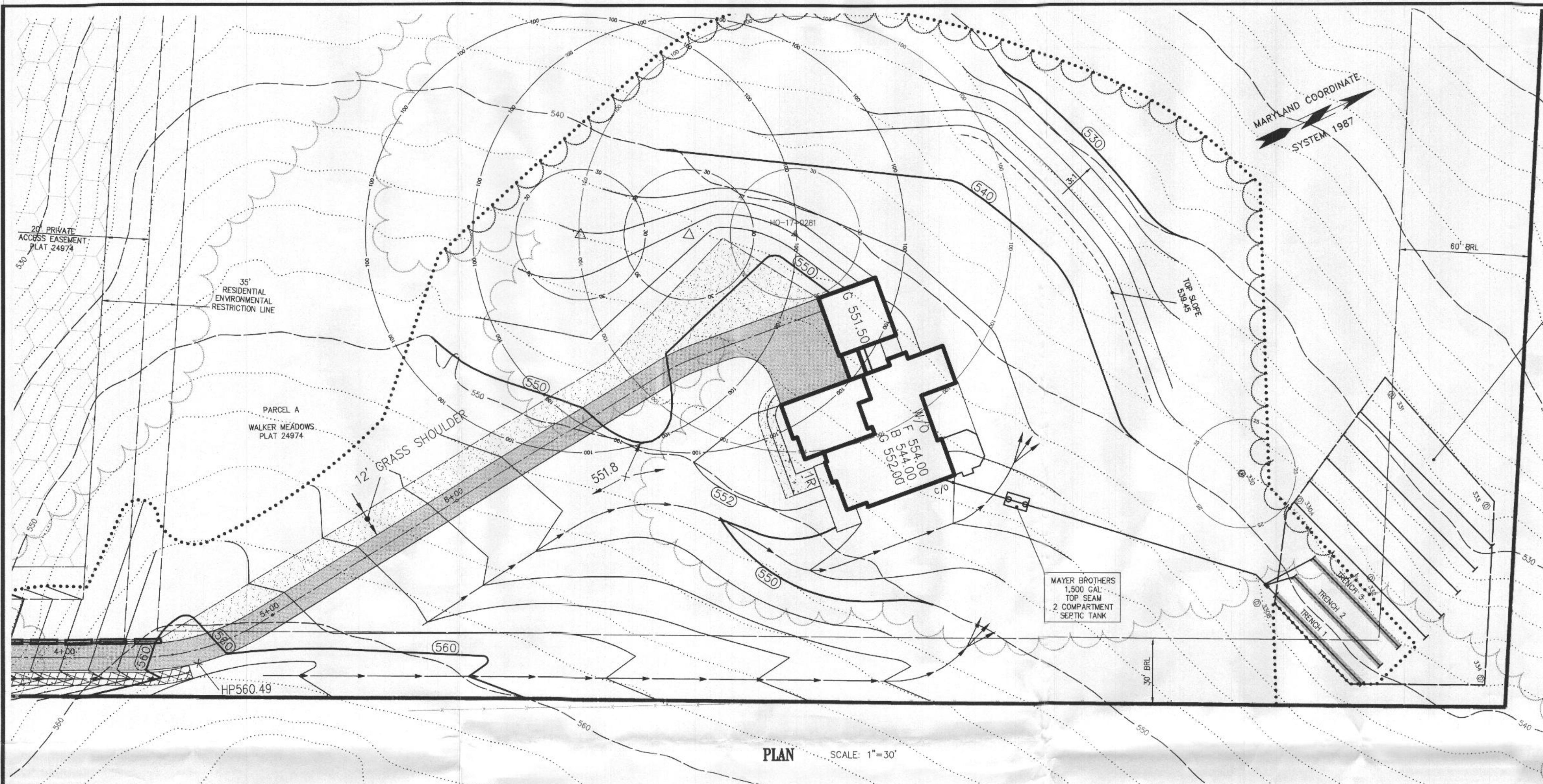
MAP 09 BLOCK 06 PARCEL 666  
ZONED RR-DEO COUNTY LAND RECORD 19507 PAGE 131  
3RD ELECTION DISTRICT

**Walker Meadows Preservation Parcel A**

Name	North	East	Bearing	Distance	Name	North	East	Bearing	Distance	Name	North	East	Bearing	Distance	Name	North	East	Bearing	Distance
DDCa2565	611250.93060	1330528.46320	S 25°29'20"W	964.00862	DDCa656	610364.85970	1330043.70430	S 80°10'08"W	134.99996	DDCa620	610424.52390	1329568.55510	N 17°59'11"E	306.18553	DDCa608	610899.36010	1329463.76590	N 22°51'12"E	51.12922
DDCa2569	610380.75020	1330113.61540	S 4°47'02"E	58.88020	DDCa651	610388.42220	1329944.90630	N 76°35'06"W	101.56934	DDCa609	610477.48470	1329464.34440	N 63°03'36"W	116.89618	DDCa617	611149.05300	1329544.67990	N 17°57'18"E	262.47594
DDCa684	610321.07860	1330118.60930	S 4°47'02"E	275.00000	DDCa647	610325.12990	1329930.00600	S 13°14'45"W	65.03035	DDCa605	610461.69480	1329449.88850	S 42°28'29"W	21.40780	DDCa623	611317.38550	1329614.96010	N 22°39'39"E	182.41474
DDCb4	610047.03659	1330141.54345	S 4°47'02"E	275.00000	DDCa641	610288.89280	1329906.17130	S 33°18'44"W	43.39894	DDCa603	610404.38930	1329438.66830	S 11°04'41"W	58.39361	DDCa630	611460.16270	1329683.10810	N 25°30'55"E	158.20708
Delta	12°31'28.68"				DDCa638	610233.59550	1329837.42480	S 51°11'22"W	88.22438	DDCa593	610271.77740	1329373.26260	S 26°15'11"W	147.86420	DDCa632	611474.94520	1329715.48530	N 65°27'36"E	35.59221
Radius	275.00000				DDCa640	610191.47110	1329906.04570	S 58°28'43"E	80.49902	DDCa588	610148.07760	1329315.15130	S 25°09'47"W	136.66954	DDCa633	611554.68280	1329746.07040	N 20°59'07"E	85.40218
Arc	60.11392	Chord	S 78°57'14"W	59.99431	DDCb3	610335.1952	1329732.92807	N 50°18'04"W	224.99997	DDCb1	610820.06151	1329378.89073	N 52°06'E	675.00006	DDCb5	611634.66573	1329747.72307	N 11°01'E	80.00001
Tangent	30.17722				Delta	55°36'52.92"				DDCa574	610376.54910	1329237.32450	N 34°41'37"E	67.35214	Delta	116°52'05.36"			
Segment	-65.67099				Radius	224.99998				DDCa580	610344.12580	1329264.19350	N 25°00'60"E	63.53754	Radius	80.00000	Chord	N 30°22'56"W	136.32615
DDCa680	610309.58370	1330059.72650	N 17°18'31"W	275.00000	Arc	21839840	Chord	S 67°30'22"W	209.92504	DDCa583	610567.74060	1329272.97490	N 34°57'37"E	133.90305	Arc	163.17873			
DDCa659	610347.74250	1330047.83510	N 17°18'31"W	39.96873	DDCa746	610111.1540	1329712.09150	S 51°8'49"W	225.00000	DDCa732	610163.99330	1329220.14720	S 13°36'07"W	675.00000	Tangent	130.21162			
DDCa684	610387.90737	1330176.72181	N 72°41'29"E	135.00000	DDCa610	610133.3080	1329474.00740	N 84°41'11"W	239.11162	DDCa723	610183.08400	1329141.24760	N 76°23'53"W	81.17636	Segment	3672.89303			
Delta	7°28'38.57"				DDCa610	610133.3080	1329474.00740	N 17°59'11"E	306.18553	DDCa604	610852.24440	1329443.90870	N 22°51'12"E	51.12922	Chord	124.31801			
Radius	134.99998				DDCa610	610133.3080	1329474.00740	N 17°59'11"E	306.18553	DDCa590	610681.00600	1329324.21860	N 34°57'08"E	208.92178	Delta	116°72'28.740	1329677.12130	N 61°56'53"W	80.00000
Arc	17.61816	Chord	N 13°34'11"W	17.60566	DDCa610	610133.3080	1329474.00740	N 17°59'11"E	306.18553	DDCa631	611697.44300	1329690.52600	N 28°03'07"E	28.50421	Arc	130.21162			
Tangent	8.82161				DDCa610	610133.3080	1329474.00740	N 17°59'11"E	306.18553	DDCa604	610852.24440	1329443.90870	N 22°51'12"E	51.12922	Segment	3672.89303			
Segment	3.37285				DDCa610	610133.3080	1329474.00740	N 17°59'11"E	306.18553	DDCa2565	611250.93060	1330528.46320	S 80°10'08"W	134.99996	Delta	116°72'28.740	1329677.12130	N 61°56'53"E	80.00000
					DDCa610	610133.3080	1329474.00740	N 17°59'11"E	306.18553	DDCa2565	611250.93060	1330528.46320	S 80°10'08"W	134.99996	Radius	134.99998	Chord	N 28°03'07"E	28.50421
					DDCa610	610133.3080	1329474.00740	N 17°59'11"E	306.18553	DDCa2565	611250.93060	1330528.46320	S 80°10'08"W	134.99996	Arc	17.61816	Chord	S 61°56'53"E	949.47990
					DDCa610	610133.3080	1329474.00740	N 17°59'11"E	306.18553	DDCa2565	611250.93060	1330528.46320	S 80°10'08"W	134.99996	Tangent	8.82161			
					DDCa610	610133.3080	1329474.00740	N 17°59'11"E	306.18553	DDCa2565	611250.93060	1330528.46320	S 80°10'08"W	134.99996	Segment	3.37285			
					DDCa610	610133.3080	1329474.00740	N 17°59'11"E	306.18553	DDCa2565	611250.93060	1330528.46320	S 80°10'08"W	134.99996					

Total Area 1131061.54 sf 25.96560 acres +/-

KBE - 03432-97261 - WS01-01-Map.plt - 07-29-2020 - 12:24  
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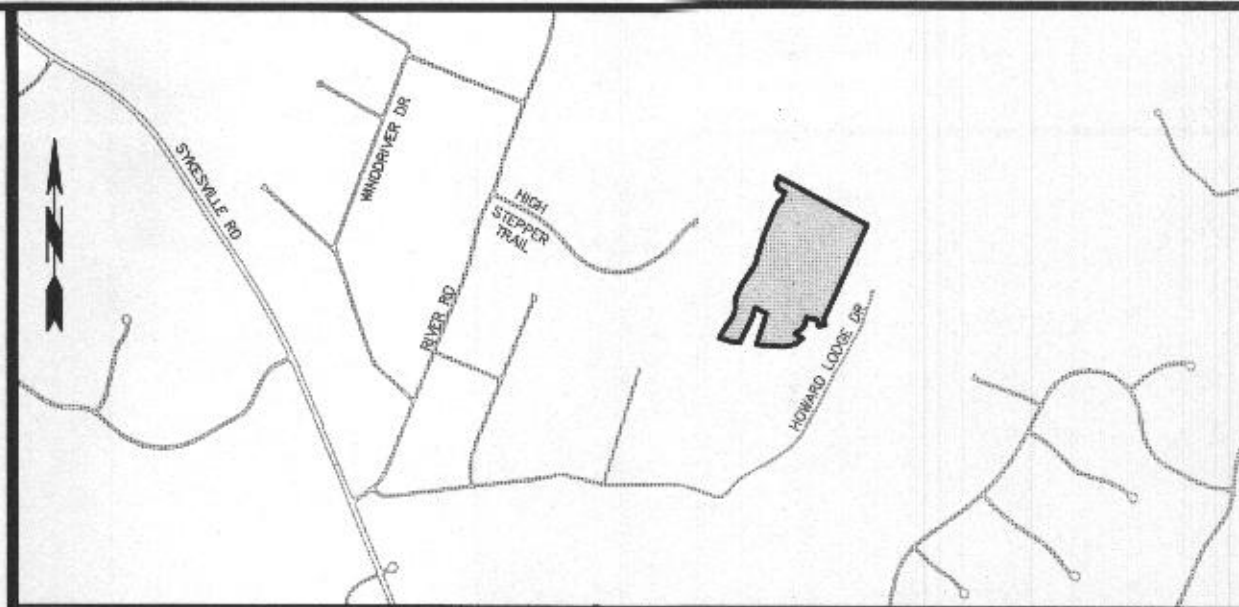


5 BEDROOM: 750 GPD 1500 Gallon Top Seam 2 Compartment Septic Tank.

**INITIAL SYSTEM:**  
 Loading Rate: 0.8 GPD per Square Foot  
 Effective Area Depth: 3.0' to 7.0'  
 2' Wide Trench  
 Deep Trench: 3 Lines @ 57.00'  
 12' C-C

**FIRST REPLACEMENT SYSTEM:**  
 Loading Rate: 0.8 GPD per Square Foot  
 Effective Area Depth: 3.0' to 7.0'  
 2' Wide Trench  
 Deep Trench: 2 Lines @ 87.00'  
 12' C-C

**SECOND REPLACEMENT SYSTEM:**  
 Loading Rate: 0.6 GPD per Square Foot  
 Effective Area Depth: 4.0' to 8.0'  
 3' Wide Trench  
 Deep Trench: 3 Lines @ 87.00'  
 13' C-C



- GENERAL NOTES**
- Current Title Reference:  
 Owner: Cary K & Lisa A Cumberland  
 County Land Record 19507 Page 131  
 2020-June-30  
 Grantor: ESC Walker Meadows, LC
  - Subject Property Zoned: RR-DEO
  - Total area of property: 1,131,062 sq.ft.
  - Septic easement subject to Howard County Health Department review.
  - Contractor/Builder to verify elevation in the field before beginning any construction.
  - The topography shown hereon was taken from data by Howard County and based on Bare Earth LIDAR Data U.S. Feet supplemented with field run data by DRS & Associates and is verified to accurately represent the relative changes on the subject property by DRS & Associates.
  - Wetlands currently exist on the property.
  - This area designates a private sewage area as required by the Maryland Department of the Environment for individual sewage disposal. For lots created prior to March of 1972 it provides at least enough area to accommodate an initial on two replacement septic systems as required by the Howard County Health Department; improvements of any nature in this area are restricted until public sewerage is available. This area 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 sewage area. Recorrection of a modified sewage area shall not be necessary.
  - Existing wells and/or sewerage easements within 100 feet of the property have been shown from the best available information.
  - The existing well shown on this plan identified with the attached well tag number "HO-17-0281" has been field located by DRS & Associates professional land surveyor and is accurately shown.
  - 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 plan may be required.
  - The maximum earth cover over the tank is 3 feet. Greater earth cover will require a heavy load bearing tank.
  - Electrical work for the installation must be performed by a licensed electrician.
  - All wells and septic systems located within 100' of the property boundaries and 200' down gradient of any wells and/or septic systems have been shown.

**LEGEND**

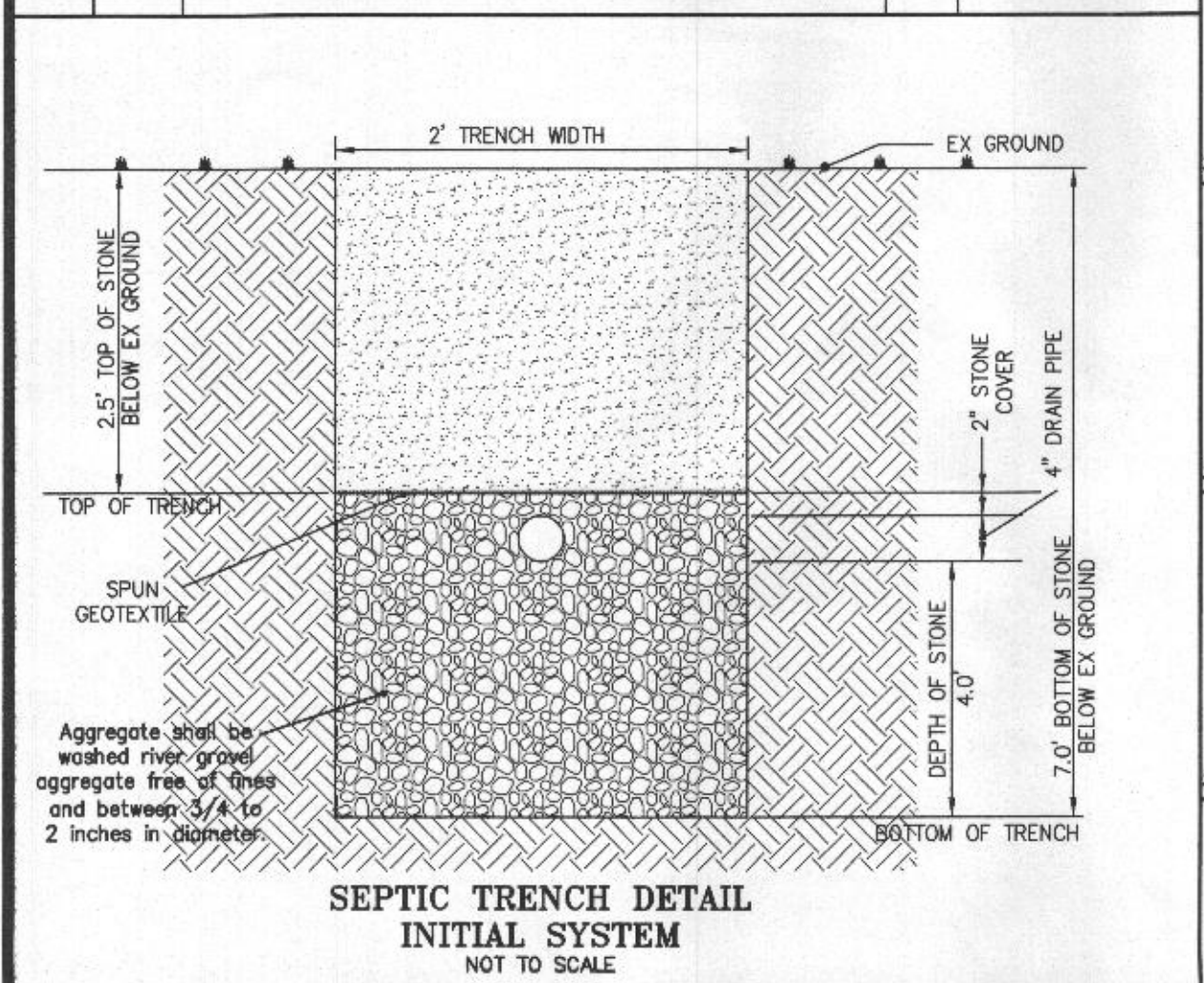
Existing	Proposed
Edge of Rd Feature separation distance in feet	Edge of Rd Feature separation distance in feet
Ind. Contours Int. Contours	Ind. Contours Int. Contours
Lot Line Plot Outline Septic Area	Lot Line Plot Outline Septic Area
Bit. Conc. Pav.	Bit. Conc. Pav.
Clean Out, Sewer/Drain Structure	Clean Out, Sewer/Drain Structure
Well	Well

**SEPTIC TEST LEGEND**

⊙ Deep Trench Perc. Pass  
 ⊕ Deep Trench Perc. Fail

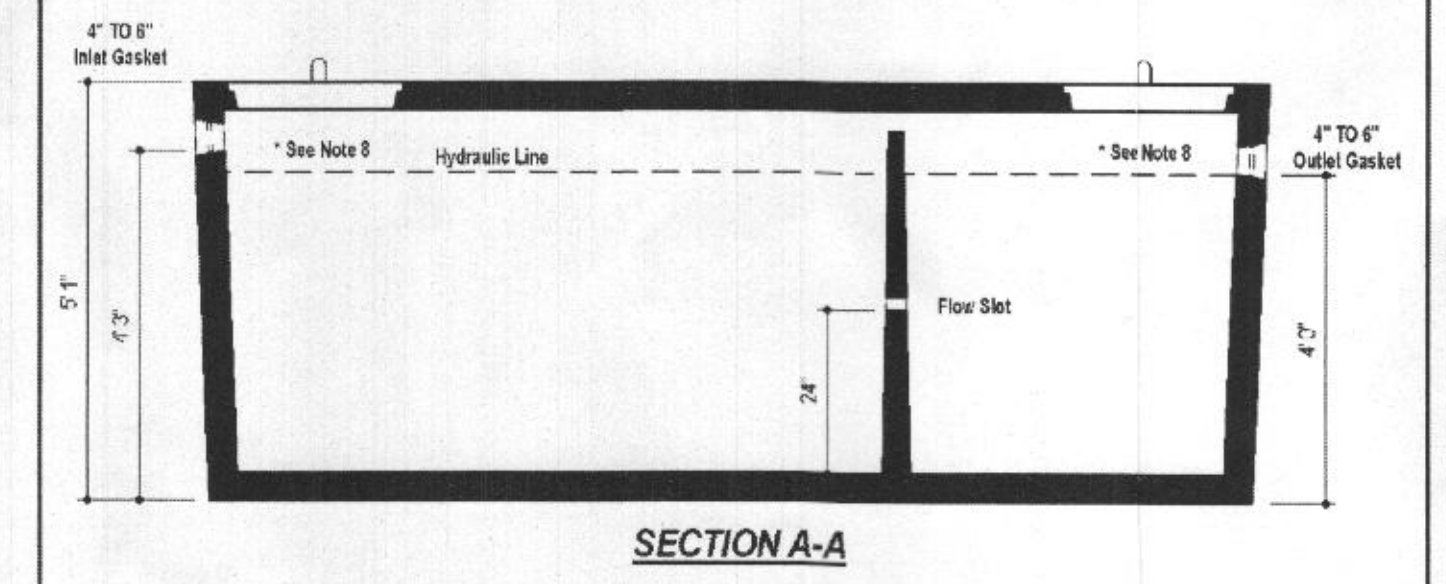
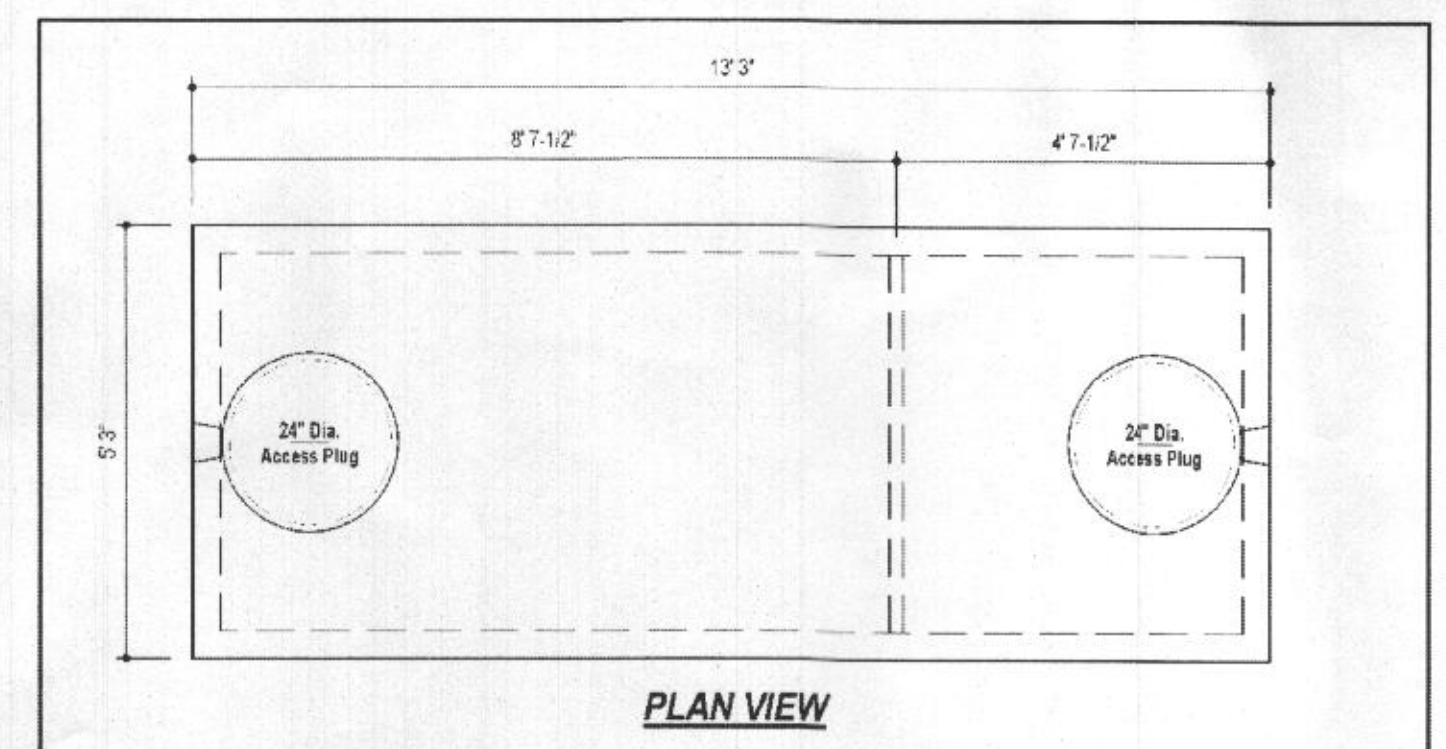
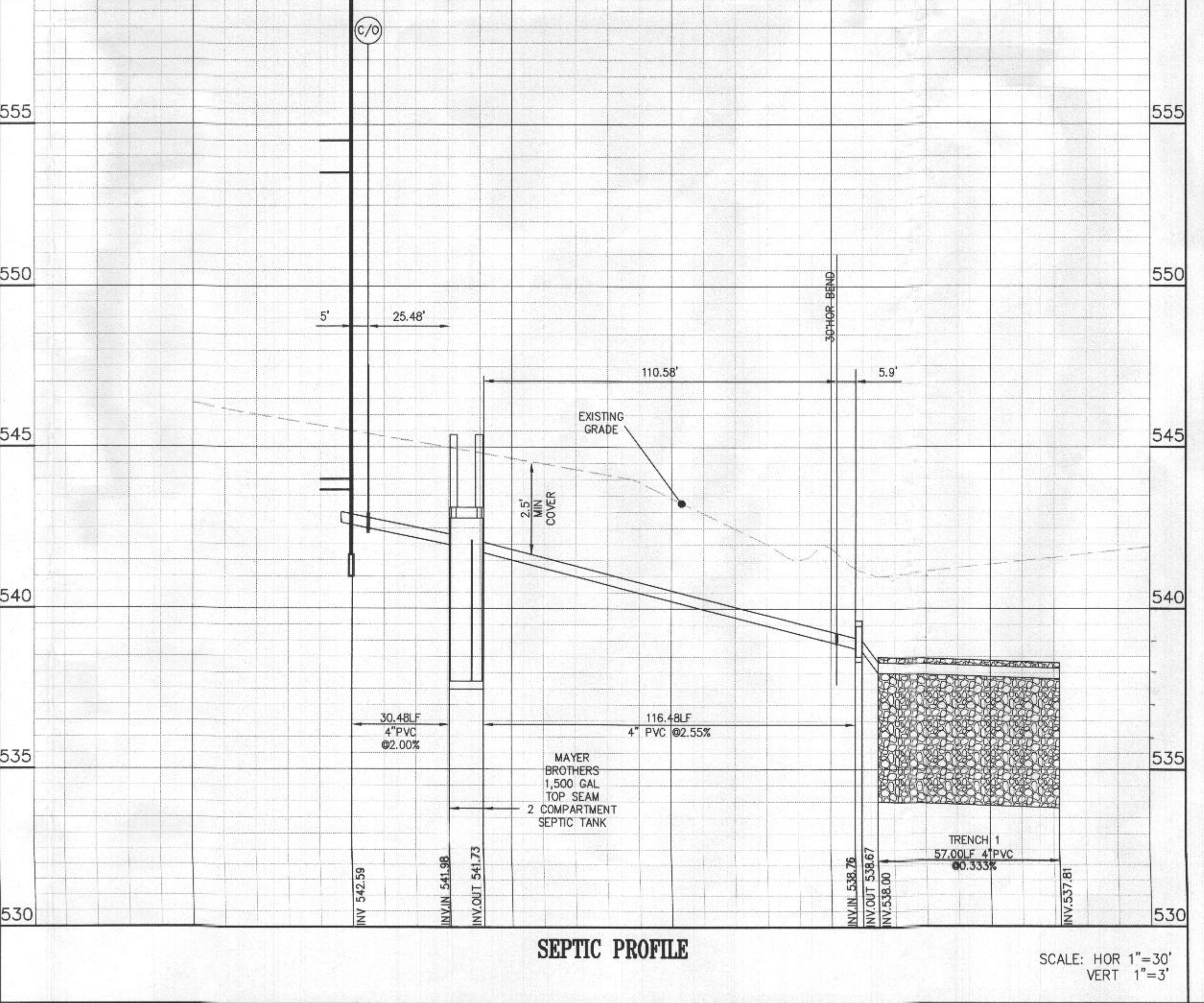
**SEPTIC TEST RESULTS**

TEST ID	TEST TYPE	TEST COMMENTS	SAN	TEST DATE
330	⊙	65% rock	RB	2015-03-13
330A	⊙	3m @ 6.5', excavated to 12.0'	RB	2015-03-13
330B	⊙	12m @ 7', excavated to 12.0'	RB	2015-03-13
331	⊙	3m @ 5.8', excavated to 10.0'	RB	2015-03-13
332	⊙	10m @ 7', excavated to 12.0'	RB	2015-03-13
333	⊙	25m @ 5.5', excavated to 11.0'	RB	2015-03-13
334	⊙	9m @ 7.5', excavated to 12.0'	RB	2015-03-13



**INVERT CHART FOR TRENCHES**

TRENCH NUMBER	BEGINNING EX. GRD. EL.	BEGINNING INV.	BEGINNING TRENCH BOT.	END EX. GRD. EL.	END INV.	END TRENCH BOT.
1	541.00	538.00	534.00	541.61	537.81	533.81
2	539.70	536.70	532.70	539.65	535.85	531.85
3	538.40	535.40	531.40	538.20	534.40	530.40



**DESIGN DATA & GENERAL NOTES**

- Concrete strength  $f_{c'} = 4,000$  p.s.i. @ 28 days. Density = 160 pcf.
- Concrete - Portland Type III per ASTM C 150-02.
- Admixtures & plasticizers per ASTM C 200-88 & C 484-02.
- Reinforcing per ASTM A 95. Min. 1-1/2" cover.
- Top slab sealed with butyl tape mastic.
- 4" wall base, 8 top thickness.
- Max 3-1/2" of cover.
- 1/2" depending on size of tank. Inlet & Outlet baffles may be required by code.

**WEIGHT = 16,750 lbs.**

**Mayer Bros., Inc.**  
 4264 Race Road  
 Elkridge, Maryland 21075  
 Tel. 410.786.6424  
 Fax. 410.786.4438  
 www.mayerbrosgroup.com

**1,500 GALLON TANK (Non-Traffic) 2-Compartment**  
 Stock Item  
 Dwg. No. 1600-2C No Scale Aug. 11, 2008

**ABBREVIATIONS**

B	Basement floor elevation or Book	G	Garage floor elevation
CLR	County Land Record	P	Page
F	First floor elevation	PB	Plot Book

Approved Septic System Plan  
 Howard County Health Department  
 Signature \_\_\_\_\_ Date \_\_\_\_\_

**REVISIONS**

REV.No.	DATE	BY	DESCRIPTION

**D.R.S. & ASSOCIATES**  
 LAND DESIGN CONSULTANTS  
 52 WINTERS STREET WESTMINSTER, MARYLAND 21157  
 410-848-4060 410-878-6040 F. 410-848-8818

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DSN: drs DFT: jfs CHK: drs SCALE: 1"=30' 15 0 15 30 45

**Onsite Sewage Disposal System Design Plan**  
**Walker Meadows**  
**Preservation Parcel A**  
 Mayapple Dr Sykesville  
 Howard County, Maryland 21784

**OWNER**  
 Cary K & Lisa A Cumberland  
 815 Windriver Dr  
 Sykesville MD 21784  
 410-977-2188

MAP 09 BLOCK 06 PARCEL 666  
 ZONED RR-DEO COUNTY LAND RECORD 19507 PAGE 131  
 3RD ELECTION DISTRICT

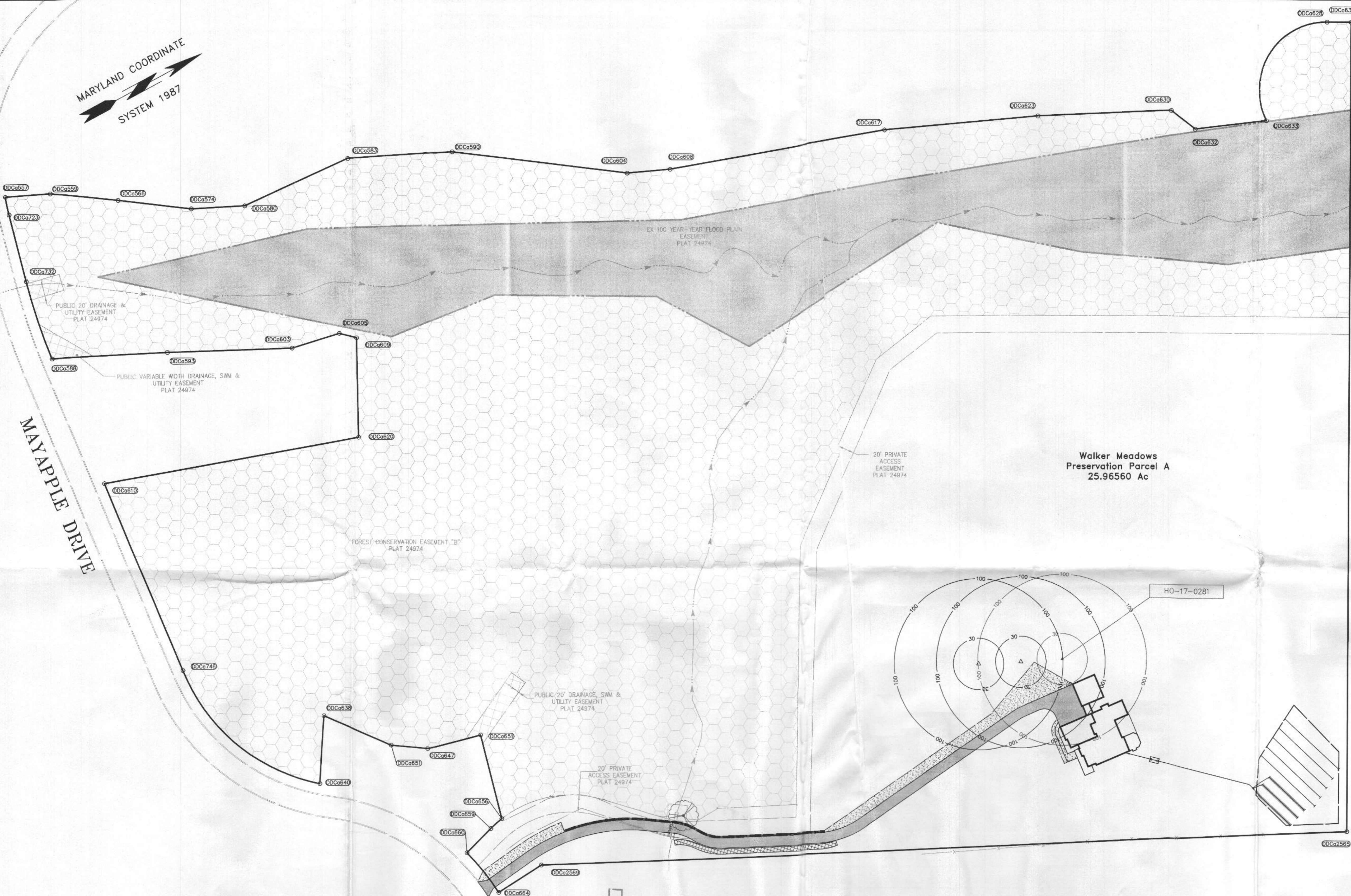
DATE: 2020-07-22 SHT.NO. : 2 OF 2

MARYLAND COORDINATE SYSTEM 1987



VICINITY MAP SCALE: 1"=2000'

MAYAPPLE DRIVE



Walker Meadows Preservation Parcel A  
25.96560 Ac

**LEGEND**

Existing	Proposed
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100 -YEAR FLOODPLAIN	
FOREST CONSERVATION EASEMENT	
PUBLIC DRAINAGE, SWM & UTILITY EASEMENT	
Clean Out, Sewer/Drain Structure	
Well	

Approved Sewer System Plan  
Howard County Health Department  
Signature: [Signature] Date: 8/13/2020

**ABBREVIATIONS**

B	Basement floor elevation or Book	G	Garage floor elevation
CLR	County Land Record	P	Page
F	First floor elevation	PB	Plot Book

**REVISIONS**

REV.No.	DATE	BY	DESCRIPTION

**D.R.S. & ASSOCIATES**  
LAND DESIGN CONSULTANTS  
52 WINTERS STREET WESTMINSTER, MARYLAND 21157  
410-848-4060 410-876-6040 F. 410-848-8818

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DATE: 2020-07-22

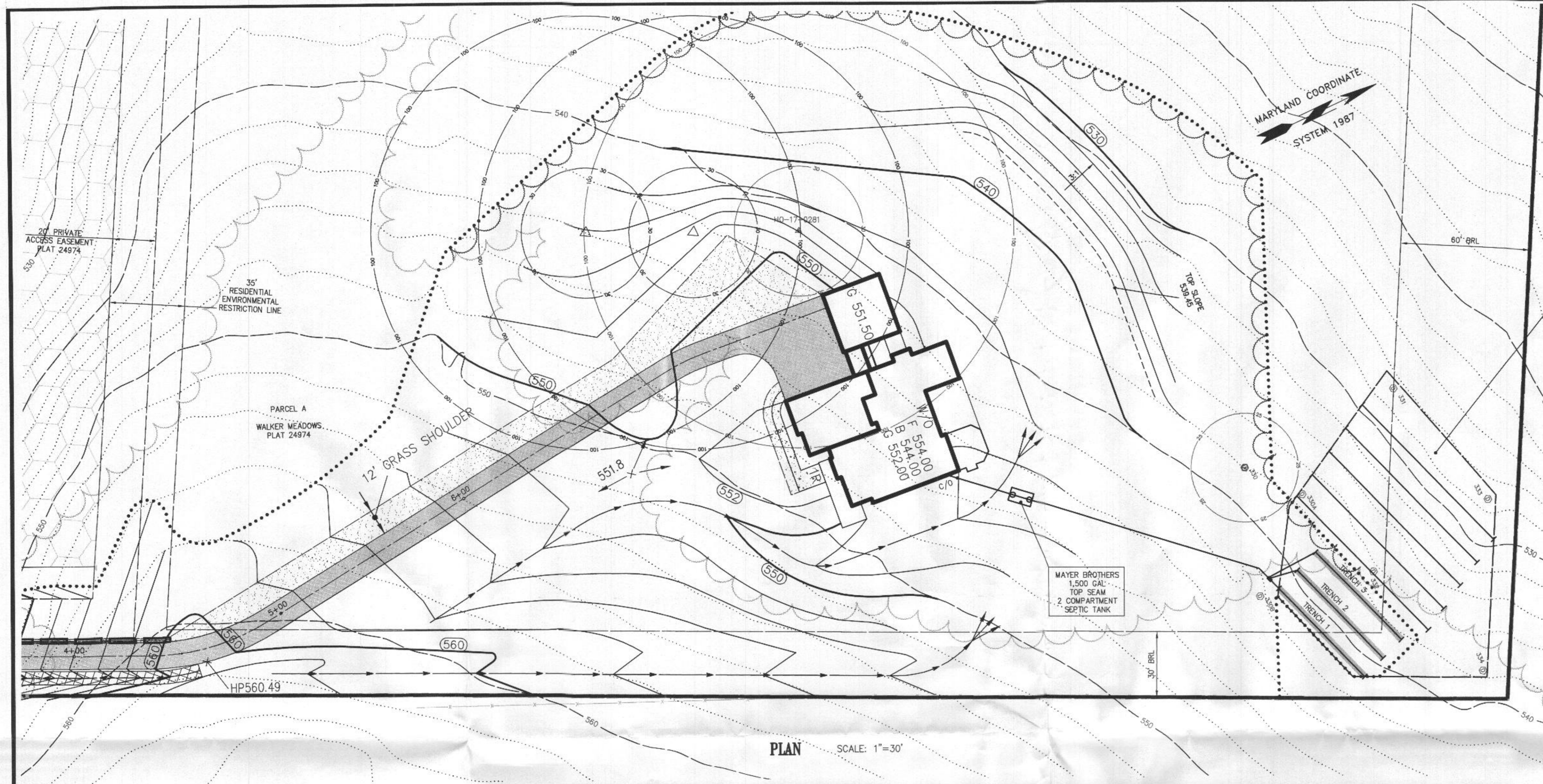
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**Walker Meadows Preservation Parcel A**  
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Cary K & Lisa A Cumberland  
815 Windriver Dr  
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410-977-2188

MAP 09 BLOCK 06 PARCEL 666  
ZONED RR-DEO COUNTY LAND RECORD 19507 PAGE 131  
3RD ELECTION DISTRICT

**Walker Meadows Preservation Parcel A**

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DDCa2569	610380.75020	1330113.61540	S 4°47'02"E	59.88020	DDCa651	610368.42120	1329944.90630	N 76°35'06"W	101.56934	DDCa609	610477.48470	1329464.34440	N 63°03'36"W	116.89618	DDCa617	611149.05300	1329544.67990	N 17°57'18"E	262.47594
DDCa664	610321.07860	1330118.60930	S 4°47'02"E	275.00000	DDCa647	610325.10900	1329930.00600	S 13°14'45"W	65.03035	DDCa605	610461.69480	1329449.88850	S 42°28'29"W	21.40780	DDCa623	611317.38550	1329614.96010	N 22°39'39"E	182.41474
DDCb4	610047.03859	1330141.54345	S 4°47'02"E	275.00000	DDCa641	610288.85280	1329906.17130	S 33°18'44"W	43.39894	DDCa603	610404.38930	1329438.66830	S 11°04'41"W	58.39361	DDCa630	611460.16270	1329683.10810	N 25°30'55"E	158.20708
Delta Radius Arc Tangent Segment	12°31'28.68" 275.00000 60.11392 30.17722 -65.67099	Chord	S 78°57'14"W	59.99431	DDCa640	610233.58550	1329837.42480	S 51°11'22"W	88.22438	DDCa593	610271.77740	1329373.26260	S 26°15'11"W	147.86420	DDCa632	611474.94520	1329715.48530	N 65°27'36"E	35.59221
DDCa680	610309.58370	1330059.72650	N 17°18'31"W	275.00000	DDCb3	610335.91520	1329732.92807	S 58°28'43"E	80.49902	DDCa588	610148.07760	1329315.15130	S 25°09'47"W	136.66954	DDCa633	611554.68280	1329746.07040	N 20°59'07"E	85.40218
DDCa659	610347.74250	1330047.83510	N 17°18'31"W	39.96873	DDCb3	610335.91520	1329732.92807	N 50°18'04"W	224.99997	DDCb1	610820.06151	1329378.89073	N 5°25'06"E	675.00006	DDCb5	611634.68573	1329747.72307	N 11°01'10"E	80.00001
DDCb6	610387.90737	1330176.72181	N 72°41'29"E	135.00000	Delta Radius Arc Tangent Segment	53°33'32.92" 214.99998 28.39840 18.66593 360.46771	Chord	S 67°30'22"W	209.92504	DDCa574	610376.54910	1329237.32450	N 80°29'23"W	96.32803	DDCa557	610189.05230	1329120.84970	S 19°00'58"W	224.99995
Delta Radius Arc Tangent Segment	7°28'38.57" 134.99998 17.61816 8.82181 3.37285	Chord	N 13°34'11"W	17.60566	DDCa746	610111.15840	1329712.09150	S 51°18'49"W	225.00000	DDCa574	610376.54910	1329237.32450	N 25°00'60"E	63.53754	DDCa559	610237.83980	1329142.56230	N 23°59'28"E	53.40091
DDCa610	610133.30180	1329474.00740	S 80°10'08"W	134.99996	DDCa732	610183.99330	1329220.14720	S 13°36'07"W	675.00000	DDCa580	610434.12580	1329264.19350	N 3°45'37"E	133.90305	DDCa566	610304.72760	1329187.60460	N 33°57'23"E	80.63986
DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa723	610183.08400	1329141.24760	N 76°23'53"W	81.17636	DDCa583	610587.74080	1329272.97480	N 24°20'35"E	124.31801	DDCa574	610376.54910	1329237.32450	N 34°41'37"E	87.35214
DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa590	610681.00800	1329324.21860	N 34°57'08"E	208.92178	DDCa580	610434.12580	1329264.19350	N 25°00'60"E	63.53754
DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa604	610852.24440	1329443.90870	N 22°51'12"E	51.12922	DDCa583	610587.74080	1329272.97480	N 24°20'35"E	124.31801
DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa590	610681.00800	1329324.21860	N 34°57'08"E	208.92178	DDCa583	610587.74080	1329272.97480	N 24°20'35"E	124.31801
DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa604	610852.24440	1329443.90870	N 22°51'12"E	51.12922	DDCa590	610681.00800	1329324.21860	N 34°57'08"E	208.92178
DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa604	610852.24440	1329443.90870	N 22°51'12"E	51.12922	DDCa583	610587.74080	1329272.97480	N 24°20'35"E	124.31801
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DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa604	610852.24440	1329443.90870	N 22°51'12"E	51.12922	DDCa590	610681.00800	1329324.21860	N 34°57'08"E	208.92178
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DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa604	610852.24440	1329443.90870	N 22°51'12"E	51.12922	DDCa583	610587.74080	1329272.97480	N 24°20'35"E	124.31801
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DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa604	610852.24440	1329443.90870	N 22°51'12"E	51.12922	DDCa590	610681.00800	1329324.21860	N 34°57'08"E	208.92178
DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa604	610852.24440	1329443.90870	N 22°51'12"E	51.12922	DDCa583	610587.74080	1329272.97480	N 24°20'35"E	124.31801
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DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa604	610852.24440	1329443.90870	N 22°51'12"E	51.12922	DDCa590	610681.00800	1329324.21860	N 34°57'08"E	208.92178
DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa604	610852.24440	1329443.90870	N 22°51'12"E	51.12922	DDCa583	610587.74080	1329272.97480	N 24°20'35"E	124.31801
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DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa590	610681.00800	1329324.21860	N 34°57'08"E	208.92178	DDCa583	610587.74080	1329272.97480	N 24°20'35"E	124.31801
DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa610	610133.30180	1329474.00740	N 17°59'11"E	306.18553	DDCa604	610852.24440	1329443.90870	N 22°51'12"E	51.12922	DDCa590	610681.00800	1329324.21860	N	

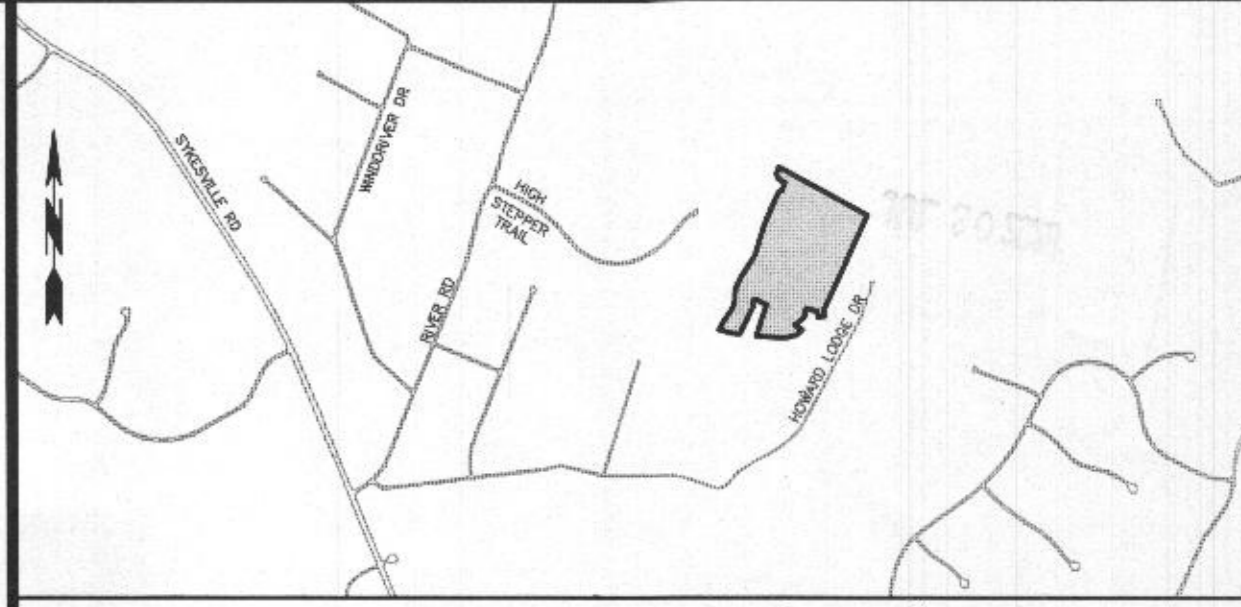


**5 BEDROOM: 750 GPD 1500 Gallon Top Seam 2 Compartment Septic Tank**

**INITIAL SYSTEM:**  
 Loading Rate: 0.8 GPD per Square Foot  
 Effective Area Depth: 3.0' to 7.0'  
 2' Wide Trench  
 Deep Trench: 3 Lines @ 57.00'  
 12' C-C

**FIRST REPLACEMENT SYSTEM:**  
 Loading Rate: 0.8 GPD per Square Foot  
 Effective Area Depth: 3.0' to 7.0'  
 2' Wide Trench  
 Deep Trench: 2 Lines @ 87.00'  
 12' C-C

**SECOND REPLACEMENT SYSTEM:**  
 Loading Rate: 0.8 GPD per Square Foot  
 Effective Area Depth: 4.0' to 6.0'  
 3' Wide Trench  
 Deep Trench: 3 Lines @ 87.00'  
 13' C-C



- GENERAL NOTES**
- Current Title Reference:  
 Owner: Cary K & Lisa A Cumberland  
 County Land Record 19507 Page 131  
 2020-June-30  
 Grantor: ESC Walker Meadows, LC
  - Subject Property Zoned: RR-DEO
  - Total area of property: 1,131,062 sq.ft.
  - Septic easement subject to Howard County Health Department review.
  - Contractor/Builder to verify elevation in the field before beginning any construction.
  - The topography shown hereon was taken from data by Howard County and based on Bare Earth LIDAR Data U.S. Feet supplemented with field run data by DRS & Associates and is verified to accurately represent the relative changes on the subject property by DRS & Associates.
  - Wetlands currently exist on the property.
  - Wetlands: This area designates a private sewage area as required by the Maryland Department of the Environment for individual sewage disposal. For lots created prior to March of 1972 it provides at least enough area to accommodate an initial on two replacement septic systems as required by the Howard County Health Department. Improvements of any nature in this area are restricted until public sewerage is available. This area 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 sewage area. Recreational of a modified sewage area shall not be necessary.
  - Existing wells and/or sewerage easements within 100 feet of the property have been shown from the best available information.
  - The existing well shown on this plan identified with the attached well tag number "10-17-0281" has been field located by DRS & Associates professional land surveyor and is accurately shown.
  - 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 plan may be required.
  - The maximum earth cover over the tank is 3 feet. Greater earth cover will require a heavy load bearing tank.
  - Electrical work for the installation must be performed by a licensed electrician.
  - All wells and septic systems located within 100' of the property boundaries and 200' down gradient of any wells and/or septic systems have been shown.

**LEGEND**

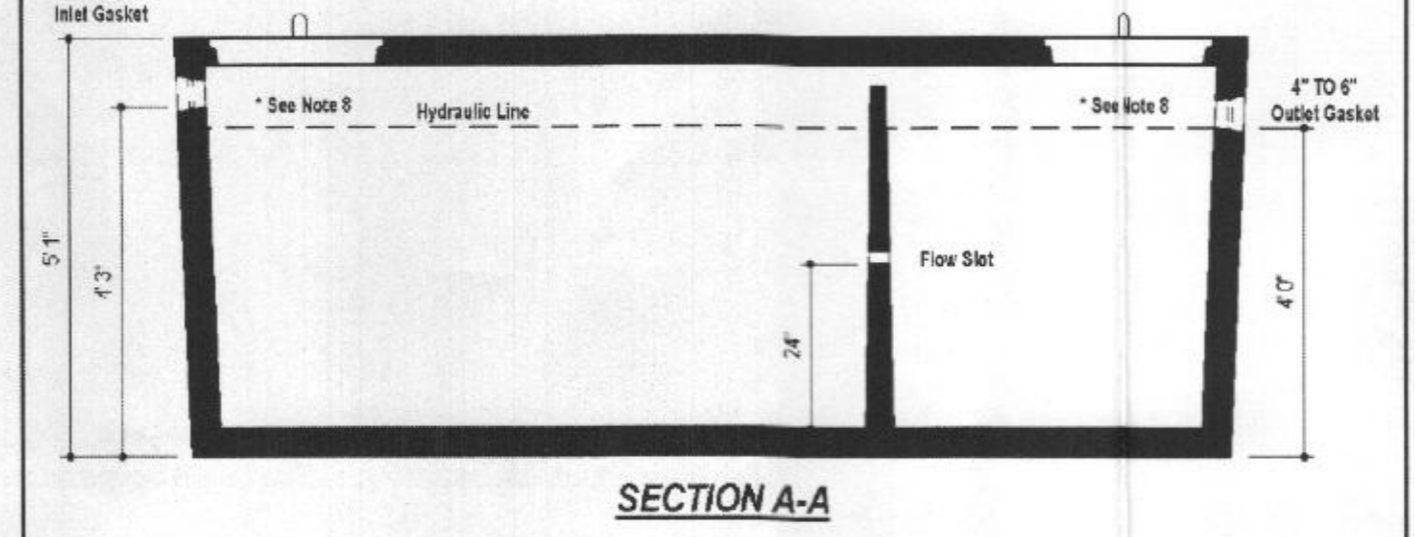
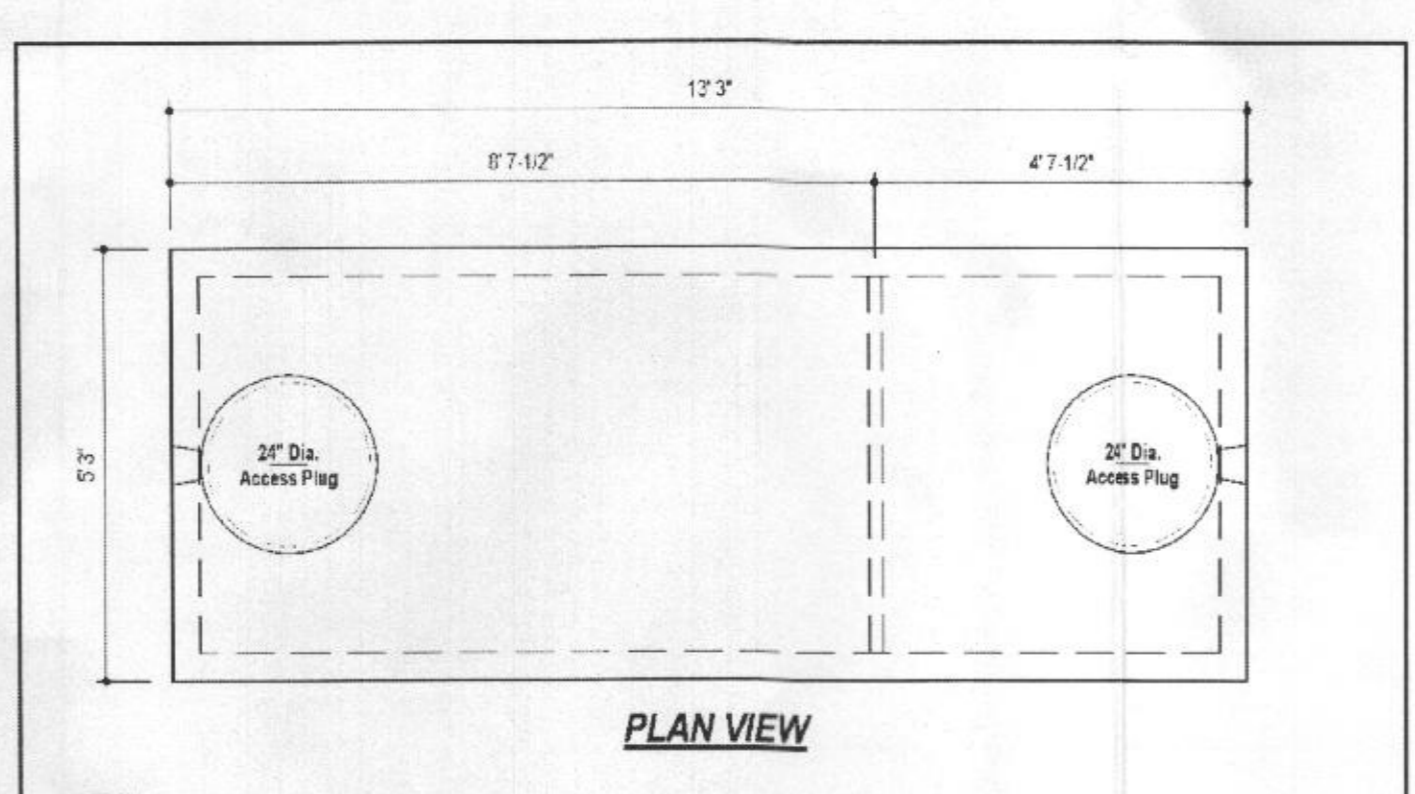
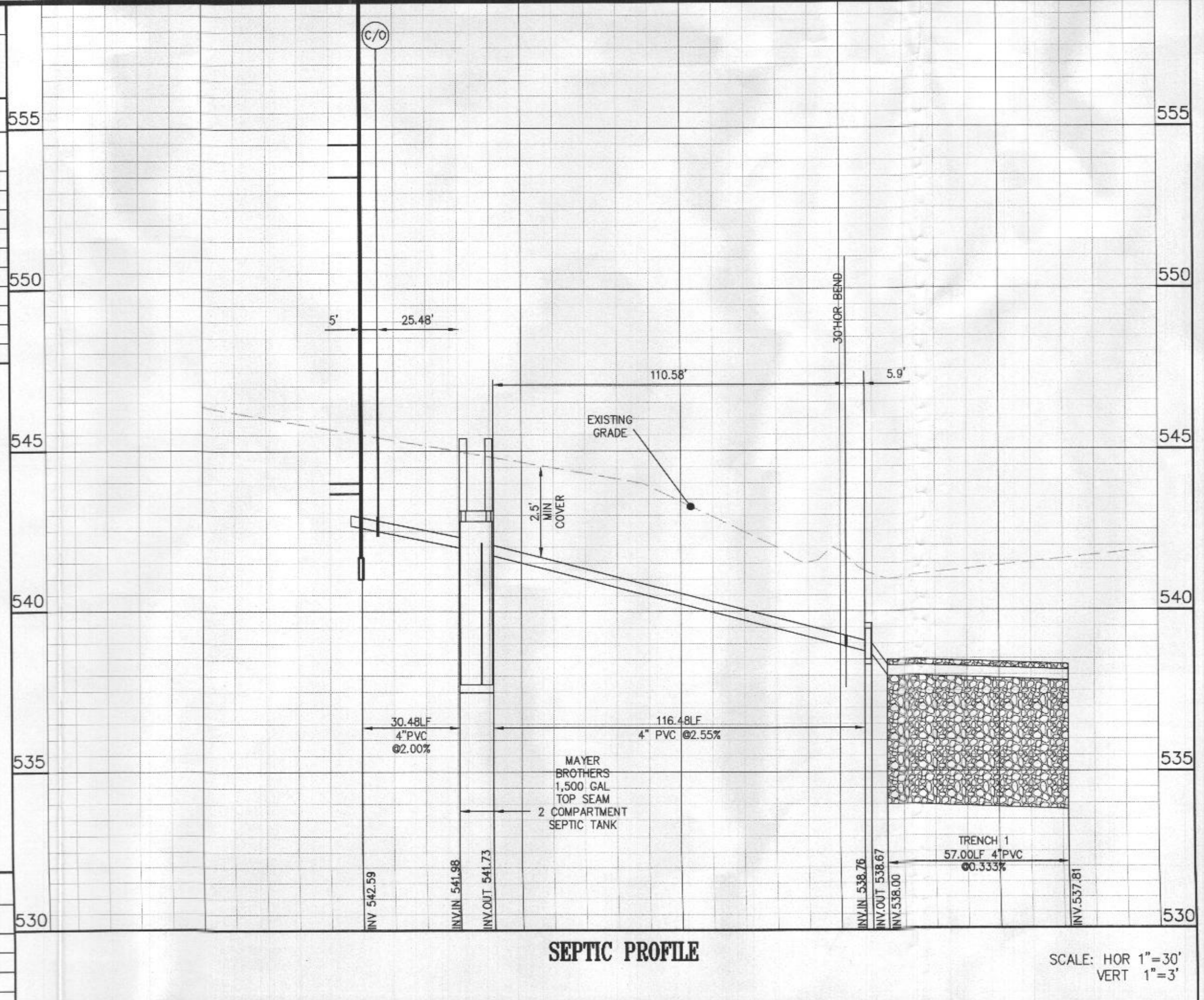
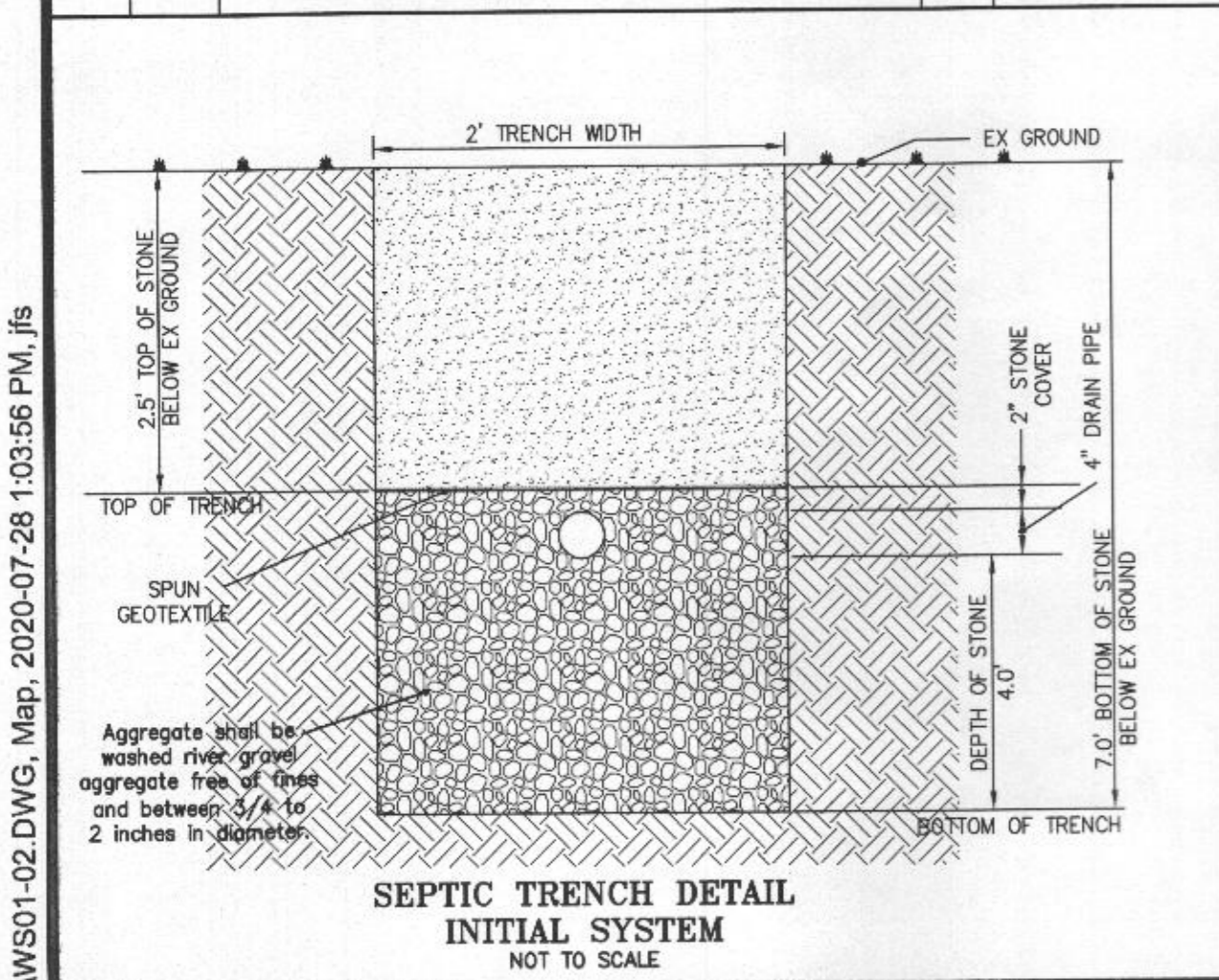
Existing	Proposed
Edge of Rd Feature separation distance in feet	Edge of Rd Feature separation distance in feet
Ind. Contours Int. Contours	Ind. Contours Int. Contours
Lot Line Plat Outline Septic Area	Lot Line Plat Outline Septic Area
Bit. Conc. Pav.	Bit. Conc. Pav.
Clean Out, Sewer/Drain Structure	Clean Out, Sewer/Drain Structure
Well	Well

**SEPTIC TEST LEGEND**

⊙ Deep Trench Perc Pass  
 ⊕ Deep Trench Perc Fail

**SEPTIC TEST RESULTS**

TEST ID	TEST TYPE	TEST COMMENTS	SAN	TEST DATE
330	⊙	65% rock	RB	2015-03-13
330A	⊙	3m@6.5', excavated to 12.0'	RB	2015-03-13
330B	⊙	12m@7', excavated to 12.0'	RB	2015-03-13
331	⊙	3m@5.8', excavated to 10.0'	RB	2015-03-13
332	⊙	10m@7', excavated to 12.0'	RB	2015-03-13
333	⊙	25m@6.5', excavated to 11.0'	RB	2015-03-13
334	⊙	9m@7.5', excavated to 12.0'	RB	2015-03-13



**DESIGN DATA & GENERAL NOTES**

- Concrete strength f<sub>c</sub>=4,000 p.s.i. @ 28 days. Density = 150 pcf.
- Cement: Portland Type III per ASTM C 150-02.
- Structures & pipe/covers per ASTM C 200-08 & C 184-02.
- Reinforcing per ASTM A198. Min. 1/2" cover.
- Top slab sealed with butyl rope mastic.
- 4" red stone, 8" top thickness.
- Max 3'-1/2" of cover.
- Depending on use of tank, inlet & outlet baffles may be required by code.

**WEIGHT = 16,750 lbs.**

**Mayer Bros, Inc.**  
 6264 Race Road  
 Elkridge, Maryland 21075  
 Tel. 410.756.1434  
 Fax. 410.796.1438  
 www.mayerbros.com

**1,500 GALLON TANK (Non-Traffic) 2-Compartment**  
 Stock Item  
 Dwg. No. 1500-2C No Scale Aug. 11, 2008

**INVERT CHART FOR TRENCHES**

TRENCH NUMBER	BEGINNING EX GRD EL.	BEGINNING INV.	BEGINNING TRENCH BOT.	END EX GRD EL.	END INV.	END TRENCH BOT.
1	541.00	538.00	534.00	541.61	537.81	533.81
2	539.70	536.70	532.70	539.65	535.85	531.85
3	538.40	535.40	531.40	538.20	534.40	530.40

**ABBREVIATIONS**

B	Basement floor elevation or Book	C	Garage floor elevation
CLR	County Land Record	P	Page
F	First floor elevation	PB	Plot Book

Approved Septic System Plan  
 Howard County Health Department

Signature \_\_\_\_\_ Date \_\_\_\_\_

**REVISIONS**

REV.No.	DATE	BY	DESCRIPTION

**D.R.S. & ASSOCIATES**  
 LAND DESIGN CONSULTANTS  
 52 WINTERS STREET WESTMINSTER, MARYLAND 21157  
 410-848-4060 410-878-6040 F. 410-848-8818

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DSN: drs DFT: jfs CHK: drs SCALE: 1"=30' 15 0 15 30 45

**Onsite Sewage Disposal System Design Plan**  
 Walker Meadows  
 Preservation Parcel A  
 Mayapple Dr Sykesville  
 Howard County, Maryland 21784

**OWNER**  
 Cary K & Lisa A Cumberland  
 815 Windriver Dr  
 Sykesville MD 21784  
 410-977-2188

MAP 09 BLOCK 06 PARCEL 666  
 ZONED RR-DEO COUNTY LAND RECORD 19507 PAGE 131  
 3RD ELECTION DISTRICT

DATE: 2020-07-22 SHT.No. : 2 OF 2



**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

Twitter: HowardCoHealthDep

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

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**Conventional Onsite Sewage Disposal System Design Plan Requirements**

The design of the disposal system must conform to the sizing, design, and location requirements set forth in COMAR 26.04.02 and Howard County Code Title 3 Subtitle 8. In addition, the following items must be shown on the plan:

- X 1. Title box with the following title, *Onsite Sewage Disposal System Design Plan*.  
The title box shall also include the street address, tax identification number, and subdivision name or property owner name(s).
- X 2. The name, address, and telephone number of the owner, developer, and the person preparing the plan.
- X 3. The date the plan was drawn, the plan scale (1:30 – 1:40), and a scaled vicinity map. Scales larger than 1:40 (examples 1:50, 1:100) require scale approval prior to plan submittal.
- X 4. All property lines and dimensions.
- X 5. Show all existing and proposed structures including stormwater management features.
- X 6. All percolation test holes (pass or fail with corresponding test number or letter) and the approved sewage disposal area (SDA).
- X 7. Field run topography at two-foot intervals. One-foot intervals are required for mound systems and systems with pipe depth less than two feet.
- X 8. Illustrate the three (3) proposed well sites or 1500 sq. ft. well box with elliptical radius of 100 feet around each of the three (3) wells or the well box.
- None 9. Illustrate streams, ponds, floodplains, 25% and greater slopes, and any other pertinent land features.
- X 10. Illustrate the locations of all Onsite Sewage Disposal System (OSDS) components on the site Plan.
- X 11. Include a cross section and details of all treatment tanks and pump tanks.

- X 12. Include a profile drawing with all invert elevations necessary for installation of the initial system.
- X 13. Show the location of the initial absorption system and two replacements with perforated pipe elevations.
- X 14. The designing Professional Engineer or other qualified designer must sign the plan.
- None 15. Low pressured dosed systems or other pumped systems must include pump station details including:
- a. Total dynamic head calculations
  - b. Pump curve
  - c. Pump on, pump off, and alarm elevations
- None 16. Low pressure dosed systems, including sand mounds and at-grade mounds must show all details necessary for installation of the lateral network and mound.

#### **Required Plan Notes**

- X 1. 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 plan may be required.
- X 2. The maximum earth cover over the tank is 3 feet. Greater earth cover will require a heavy load bearing tank.
- None 3. Electrical work for the installation must be performed by a licensed electrician.
- X 4. The well (tag # \_\_\_\_\_) has been field located and is accurately shown.
- X 5. All wells and septic systems located within 100' of the property boundaries and 200' down gradient of any wells and/or septic systems have been shown.

CURVE	RADIUS	LENGTH	DELTA	TAN	CHD. BRG.	CHD. DIST.
C31	90.00'	29.73'	18°55'47"	15.00'	N34°57'13"E	29.60'
C32	135.00'	145.44'	61°43'37"	80.68'	S13°33'18"W	138.51'
C33	115.00'	123.84'	61°43'37"	68.73'	S13°33'18"W	117.94'
C34	110.00'	36.34'	18°55'47"	18.34'	N34°57'13"E	36.18'

CURVE	RADIUS	LENGTH	DELTA	TAN	CHD. BRG.	CHD. DIST.
C1	80.00'	163.18'	116°52'05"	130.21'	S30°22'56"E	154.33'
C10	225.00'	218.40'	55°36'33"	118.67'	N67°30'23"E	204.93'
C19	675.00'	46.41'	8°11'01"	48.29'	S82°24'23"E	46.33'
C20	275.00'	60.11'	12°31'29"	30.18'	S78°57'14"W	59.99'
C27	135.00'	17.62'	7°28'38"	8.82'	S19°34'11"E	17.61'
C28	225.00'	21.26'	5°24'51"	10.64'	S73°41'27"E	21.25'

**EASEMENT LINE TABLE**

LINE	BEARING	LENGTH
L18	S28°03'07"W	404.77'
L19	S27°05'18"W	91.85'
L20	S10°14'59"E	82.39'
L21	S37°38'40"E	238.58'
L22	S62°00'46"E	318.31'
L23	S25°23'20"W	126.95'
L24	S44°25'07"W	76.90'
L25	S17°18'31"W	39.97'
L26	N17°18'31"W	39.97'
L27	N44°25'07"E	76.90'
L28	N25°23'20"E	146.09'
L29	N62°00'46"W	333.14'
L30	N37°38'40"W	229.41'
L31	N10°14'59"W	70.76'
L32	N27°05'18"E	84.30'
L33	N28°03'07"E	404.60'
L3	N12°32'55"E	40.56'
L4	S77°59'03"E	20.00'
L5	S12°32'54"W	40.74'
L6	S58°59'22"W	75.24'

**F/C ESMT. LINE TABLE**

LINE	BEARING	LENGTH
L7	N38°04'00"E	12.04'
L8	N56°56'00"W	15.37'
L9	N38°04'00"E	22.87'
L10	S56°56'00"W	15.37'
L11	N38°04'00"E	15.09'
L12	N03°28'08"W	25.90'
L13	N25°29'20"E	95.29'
L14	N27°30'44"W	34.69'
L15	N61°11'14"E	20.00'
L16	S27°30'44"E	87.91'

**COORDINATE TABLE**

POINT #	NORTH	EAST
557	610189.0523	1329120.8497
559	610237.8393	1329142.5623
566	610304.7276	1329187.6046
574	610376.5491	1329237.3245
580	610434.1258	1329264.1935
583	610567.7406	1329272.9749
588	610148.0776	1329315.1913
590	610681.0060	1329324.2186
593	610271.7774	1329373.2626
603	610404.3893	1329433.6683
604	610852.2444	1329443.9837
605	610461.6948	1329449.8885
608	610899.3601	1329463.7659
609	610477.4847	1329464.3444
610	610133.3018	1329474.0074
617	611149.0530	1329544.6799
620	610424.5239	1329568.5951
623	611317.3855	1329614.9601
628	611672.2874	1329677.1213
630	611460.1827	1329683.1061
631	611697.4430	1329690.5260
632	611474.9452	1329715.4883
633	611954.6828	1329746.0704
638	610233.5585	1329837.4248
640	610191.4721	1329906.0457
641	610288.8528	1329906.1713
647	610325.1209	1329930.0060
651	610386.4212	1329944.9063
656	610364.8567	1330043.7043
659	610347.7425	1330047.8351
660	610309.5837	1330059.7265
664	610321.0786	1330118.6093
723	610183.0840	1329141.2476
732	610163.9833	1329220.1472
746	610111.1584	1329712.0915
2565	611250.9306	1330528.4632
2569	610380.7502	1330113.6154

**DRAWING LEGEND**

- FOREST CONSERVATION EASEMENT
- PRIVATE SEWAGE DISPOSAL AREA
- SIGHT DISTANCE EASEMENT
- PUBLIC DRAINAGE, SWM & UTILITY EASEMENT
- 100-YEAR FLOODPLAIN EASEMENT
- PRIVATE USE-IN-COMMON ACCESS EASEMENT
- WETLAND LIMIT
- WB - WETLAND BUFFER
- CENTERLINE OF STREAM
- SB - STREAM BUFFER

AREA TABULATION CHART	THIS SHEET
NUMBER OF BUILDABLE LOTS	0
NUMBER OF BUILDABLE PRESERVATION PARCELS	0
NUMBER OF NON-BUILDABLE PRESERVATION PARCELS	0
NUMBER OF NON-BUILDABLE BULK PARCELS	0
TOTAL NUMBER OF LOTS AND/OR PARCELS TO BE RECORDED	1
AREA OF BUILDABLE LOTS	0.000 AC.±
AREA OF BUILDABLE PRESERVATION PARCELS	25.966 AC.±
AREA OF NON-BUILDABLE PRESERVATION PARCELS	0.000 AC.±
AREA OF NON-BUILDABLE BULK PARCELS	0.000 AC.±
TOTAL AREA OF LOTS AND/OR PARCELS TO BE RECORDED	25.966 AC.±
TOTAL AREA OF ROADWAY TO BE RECORDED	0.000 AC.±
TOTAL AREA OF SUBDIVISION TO BE RECORDED	25.966 AC.±

THE REQUIREMENTS OF SECTION 3-108, THE REAL PROPERTY ARTICLE, ANNOTATED CODE OF MARYLAND, 1988 REPLACEMENT VOLUME (AS SUPPLEMENTED) AS FAR AS THEY RELATE TO THE MAKING OF THIS PLAT AND THE SETTING OF MARKERS HAVE BEEN COMPLIED WITH.

*J. Pute* 2-6-2019  
 JAMES L. MATHIAS, PROFESSIONAL LAND SURVEYOR DATE  
 MARYLAND REGISTRATION NO. 11039 (EXP. DATE 9/16/2020)

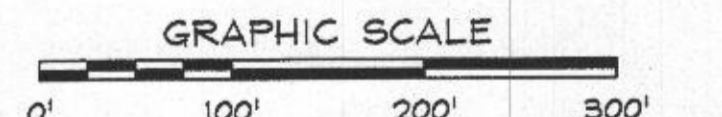
*J. S. Van Kirk* 2-11-19  
 JASON S. VAN KIRK, VP OF ESDC II, INC. MEMBER DATE



**OWNER/DEVELOPER**  
 ESC WALKER MEADOWS, L.C.  
 5074 DORSEY HALL DR., SUITE 205  
 ELLICOTT CITY, MARYLAND 21042  
 (410)720-3021

WAR PLAT NO. 24979  
 RECORDED 2.50  
 3/22/19

*M. P. ...* 3/22/19



RECORDED AS PLAT NUMBER ON AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
*B. Wilson for Maureen Rossman* 3/5/2019  
 HOWARD COUNTY HEALTH OFFICER DATE

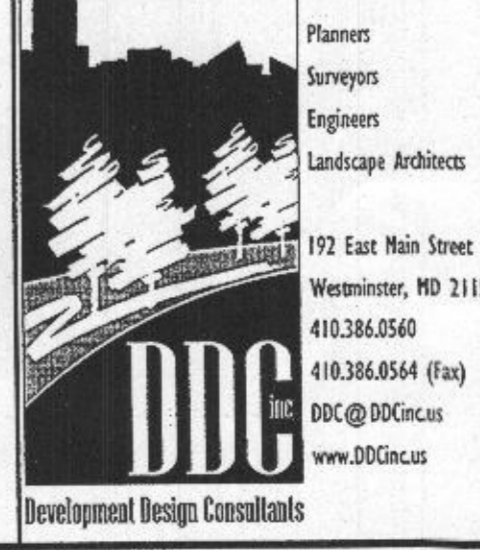
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*[Signature]* 3-8-19  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE  
*[Signature]* 3-18-19  
 DIRECTOR DATE

**OWNER'S DEDICATION**  
 WE, ESC WALKER MEADOWS, L.C., OWNER OF THE PROPERTY SHOWN AND DESCRIBED HEREON, HEREBY ADOPTS THIS PLAN OF SUBDIVISION, AND IN CONSIDERATION OF THE APPROVAL OF THIS FINAL PLAT BY THE DEPARTMENT OF PLANNING AND ZONING, ESTABLISH THE MINIMUM BUILDING RESTRICTION LINES AND GRANT UNTO HOWARD COUNTY, MARYLAND, ITS SUCCESSORS AND ASSIGNS: (1) THE RIGHT TO LAY, CONSTRUCT, AND MAINTAIN STREETS, DRAINS, WATER PIPES, AND OTHER MUNICIPAL UTILITIES AND AREAS SHOWN HEREON; (2) THE RIGHT TO REQUIRE DEDICATION FOR PUBLIC USE THE BEDS OF THE STREETS AND/OR ROADS, AND FLOODPLAINS AND OPEN SPACE, WHERE APPLICABLE, AND FOR OTHER GOOD AND VALUABLE CONSIDERATION, HEREBY GRANT THE RIGHT AND OPTION TO HOWARD COUNTY TO ACQUIRE THE FEE SIMPLE TITLE TO THE BEDS OF THE STREETS AND/OR ROADS AND FLOODPLAINS, STORM DRAINAGE FACILITIES, AND OPEN SPACE, WHERE APPLICABLE; (3) THE RIGHT TO REQUIRE DEDICATION OF WATERWAYS AND DRAINAGE EASEMENTS FOR THE SPECIFIC PURPOSE OF THEIR CONSTRUCTION, REPAIR AND MAINTENANCE; AND (4) THAT NO BUILDING OR SIMILAR STRUCTURE OF ANY KIND SHALL BE ERRECTED ON OR OVER THE SAID EASEMENTS AND RIGHTS-OF-WAY, WITNESS MY HAND THIS 2019.

*J. S. Van Kirk* 2-11-19  
 JASON S. VAN KIRK, P. OF ESDC II, INC. MEMBER DATE  
*[Signature]* 2/11/19  
 WITNESS NAME DATE

**SURVEYOR'S CERTIFICATE**  
 I HEREBY CERTIFY TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF THAT THE FINAL PLAT SHOWN HEREON IS CORRECT, THAT IT WAS 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; THAT IT IS A SUBDIVISION OF THE LANDS CONVEYED BY THE GILLIECE FAMILY LLC TO ESC WALKER MEADOWS, L.C. BY DEED DATED DECEMBER 10, 2018 AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN LIBER MDR 18482, FOLIO 148; AND THAT ALL MONUMENTS ARE IN PLACE OR WILL BE IN PLACE PRIOR TO ACCEPTANCE OF THE STREETS IN THE SUBDIVISION BY HOWARD COUNTY, MARYLAND AS SHOWN, IN ACCORDANCE WITH THE ANNOTATED CODE OF MARYLAND, AS AMENDED.

*J. Pute* 2-6-2019  
 JAMES L. MATHIAS, PROFESSIONAL LAND SURVEYOR DATE  
 MARYLAND REGISTRATION NO. 11039 (EXP. DATE 9/16/2020)



**PLAT OF REVISION**  
**WALKER MEADOWS**  
 LOTS 1-34, BUILDABLE PRESERVATION PARCEL A, NON-BUILDABLE PRESERVATION PARCELS B-K & NON-BUILDABLE BULK PARCELS L-M  
 (A RESUBDIVISION OF LOT 2 DIEHL PROPERTY AS PREVIOUSLY RECORDED IN PLAT #6937)  
 ZONING: RR-DEO  
 SCALE: 1"=100' NOVEMBER 21, 2018  
 TAX MAP 9, GRID 6, PARCEL 66  
 3RD ELECTION DISTRICT HOWARD COUNTY, MD  
 PREVIOUS DPZ FILE #S: ECP-15-078, WP-16-047, WP-16-133, WP-18-016 AND SP-16-006  
 12064.1 RC JLM SHEET 6 OF 6



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MSA C2125-6089-6

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