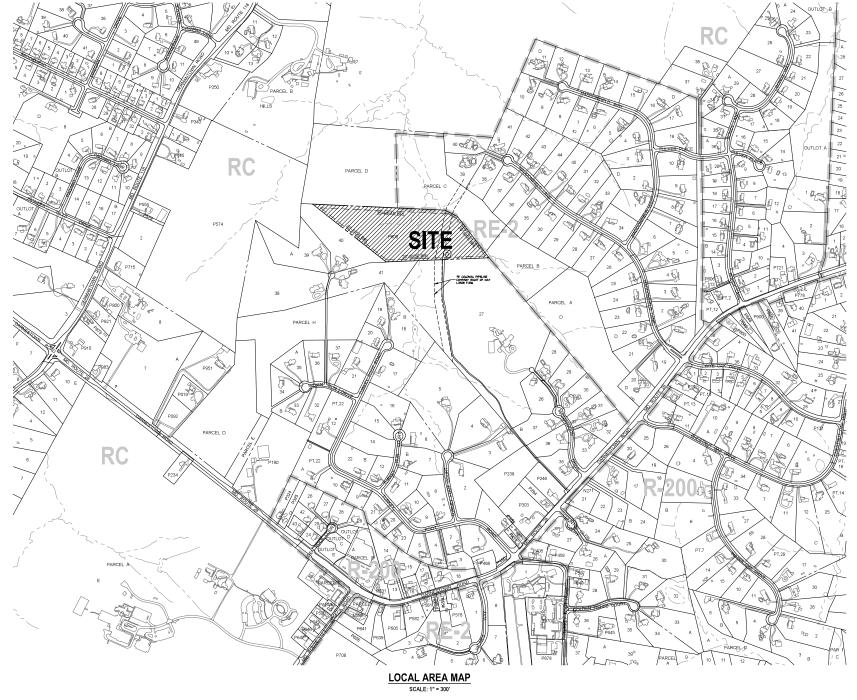
### ATTACHMENT A

1. tot and Deusity	Detached	House		
Lot	Required/Fermitted	Provided		
LIPE	Medianed/sequires	10TA		
Les arraidmes i	5-6099	15.27 Acre		
Lot width at Foret building line (mic.)	300	>)00		
Lot worth at front lot line (min.)	900	1/4"		
Density (miss)	Required/Permitted	Provided		
bearing from a	magares/vermitten	LOTA		
Bernity (units/Acre)	0.3	0.07		
Coverage (must	Required/Permitted	Provided		
		LOTA		
Mae Lot Coverage	10%	<10%		
2. Placement	Detached			
Principal Building Settracks (min)	Fequired	Provided		
		A TOL		
Front Sethack	50 (min.)	m/a e		
Side Street; Settinck	SD (min.)	n/a		
Side Settleck	207 (mins.)	209		
New Sirback	at amn)	- 87		
Accessory Structure Sethecks (min)	Required	Provided		
Recessory Schicobre Sections (min)	moderner.	LOTA		
Front Sistrack	80 colo.3	ola*		
Side Street Setbals	50/ hmln (	n/a		
Side Settlack	15" (min.)	15'		
Rew Settleck	IS (micr)	15		
1. Plycement	Detoched	House		
Principal Building Height (max)	Required	Provided		
	1 - 3 - 5	LOTA		
Protopal Building	50"	<501		
Accessory Structure Height (max)	Versaired	Provided		
		A TOL		
Antorough Structure	50	-501		

## **ADMINISTRATIVE SUBDIVISION PLAN**

M-NCP&PC No. 620240010



13635 Darnestown Road, Darnestown Parcel 606, Rich Meadows





3635 Darnestown Road Darnestown, Maryland MNCPPC No. 620240010

CES

13635 Darnestown Road Parcel 606, Rich Meadows

## PRELIMINARY / FINAL FOREST CONSERVATION PLAN - M-NCP&PC No. F20240060

- Property is located on Soils Survey Map Number 18. Soil type(s): See "Soils Table"
- Flood zone "X" per F.E.M.A. Firm Maps, Community Pan 24031003100

## SEQUENCE OF EVENTS FOR PROPERTIES REQUIRED TO COMPLY WITH FOREST CONSERVATION PLANS, EXEMPTIONS FROM SUBMITTING FOREST CONSERVATION PLANS, AND TREE SAVE PLANS

- Post-Construction

INSPECTIONS

diditional requirements for plans with planting requirements

TOTAL AREA OF AFFORESTATION

(SEE SCHEDULE TO THE RIGHT FOR SUGGESTED PLANTING LIST)

REQUIRED 2ª CALIPER TREES: (100/ACRE) = 29 29 2º CALIBER TREES

REQUIRED SHRUBS: (33/ACRE) = 9.6 10 SHRUBS REQUIRED

AFFORESTATION PLANTING SCHEDULE

pass we note (passed recomments).

After the limit of distances have been shoot and daysed, but before any chairing or grading begins.

After recovery distances have been three their completed any powders measures have been invalided, but before any chief any of passing on the complete and provided any powders.

After completion of all consultances advises, but before recovered to the provided in factorization and white, but before recovered to the provided in the create the level of completion with the provided of the forest convenience.

discussion arrowment for plans with planting concreted.

Bellow the last of any requisits information, admirination, planting.

After the compact defensation and admirination planting in as toos conception to waitly that the planting is acceptable.

After the compact defensation and admirination planting in a stoo conception, to waitly that the planting is acceptable to the planting in a planting in a contract to the complexity of the destination and admirination and of the mediate interval in a contract to the enemiting dustation of the mediate contract and admirination and admirination planting in a final planting admirination and the contract in a final planting admirination and the contraction and the contraction and admirination and the contraction an

- A Mayland Licensed Tree expert must perform, or directly supervise, the implementation of all stress reduction measures. Documentation of the process (including protographs) may be required by the Forest Conservation Inspector, and will be determined at the pre-construction meeting.

## ENVIRONMENTAL DATA TABLE ACREAGE 1.84 ac. 0.26 ac. \* 100-year Flood Plain

The location of offste trees, improvements, and other structures beyond the delineated "Limits of CAS Topographic Survey" are approximate. Offste features are shown per available MNCPPC topographic records and are provided for lightrative purposes only

# MARYLAND DEPARTMENT OF

plant or arimal species within the delinented area shown on the map provided. We would like to point or, however, that our remote analysis agrees that the feet and are a shown on the map provided. We would like to point out, however, that our remote analysis suggests that the feeted after one this property contains Forest limited and are on the property contains Forest limited selection in the property of the type of Forested habitat are contained in Maryland and throughout the eastern United States, interested because It would be a support of the property of the prop

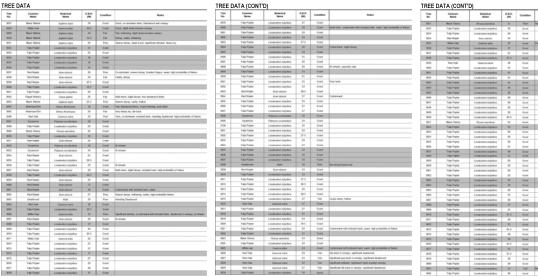
Sircerely, Louia. Bym Lori A. Byrne, Environmental Review Coordin Wildlife and Heritage Service MD Dept. of Natural Resources

ARROWNOOD I-3 GAL. CONT. -- 3

HITCH
HAZEL I-3 GAL. CONT. -- 3

DEVELOPER CERTIFICATE THE UNDERSIGNED AGREES TO DECUTE ALL THE FEATURES OF THE APPROVED FINAL FOREST CONSERVATION PLAN No. PROSPOSO INCLUDING, FINANCIAL BONDING, FOREST PLANTING, HANTENANCE, AND ALL OTHER APPLICABLE AGREEMENTS.

> 1800 MLSON BOULEVARD, UNIT 449 APLINGTON, VA 22201 (540) 558-85% KENTHURPHYEHALI GCMAIL.COM



FOREST CONSERVATION WORKSHEET

				(AATT LI	IN SAIN	EWAIL	KOHED	OKFK	ORITIA	NEA)	
FC	CP NOTES					EST CONS RICH MEA					
1.	Kent Murphy 1800 Wijson Boujevard, Unit 449	Property Information: Parcel 806, Rich Meadows 860,987 s.f. (15.17 sc) per Deed Tax Account: 08-02018388	A. Tot	RACT AREA all tract area Stioms for tract are	eu (ON ille	n Work, Inc	construc	tien repub	ned by (Miles	sar)_	15 17
2. 3.		neca Creek Watershed, Watershed use class IV-P. stection Area (S.P.A.) or the Patuxent River Watershed Primary	D. Las	d desication are of dedication for a to remain in co	roads on a	mines (con	stivition i	nit respuise	d by this pla	m)	0.00
4. 5.	There are no floodplains or associated I Number 24031C0310D. However, the	esociated buffers exist on site, as indicated on this plan.  buffers boated onsite per F.E.M.A. Firm Maps, Community Panel  100 year Modifien definesion of shown hereon is per a floodylain  Engineering & Design, LLC and was approved by MCDPS on June	G. Net	er deductions (so t Tract Area	sect(v)	Forest are	ea within ex	risting gas p	oipeline ease	ment	0.06
6.	Steep slopes (25% or greater) and slo indicated on this plan.	pes between 15% -25% on highly erodible soils exist on site, as	LAND	Input the no							
7.	There are no wedlands or their associated	buffers located onsite per onsite observation.		SERVICE CALA	over family.						
8.	No rare, threatened, or endangered (R.T confirmed by the Maryland Department of	E.) species were observed during our site analysis. This has been Natural Resources in a letter dated January 5, 2022.		ASA	toe	MOR	ins.	HDR	MPD	DIA	
9.	No cultural and/or historical features exist of the MNCPPC on-line locator wizard.	onsite based on available records, onsite observation, and the use		0	- 1	0	0	0	a	D	
	Forest, significant trees, and specimen tre		G: 48	orestanion Threst	sold			200	160		3.02
11.	located on this site.	on trees or trees ≥75% of the current state and/or county champion		nservation Thresh				M004	10+		6.80

A SA	CTIME	MODERN	130%	THE CHE	WHELE	LIM	
0	- 1	0	0	0	ø	0	
G. Alforestation Threst	iold			20%	160		:30
H. Conservation Thresh	old _			M006	10-		6.8
EXISTING POREST COVE	R:						
i. Existing forest cover							13.1
Arms of forest acove	niforestan	ion threshol	H				10.1
K. Area of forest above	CONTRICTOR	doo thream	dil				6.3
BREAK EVEN POINT:							
<ol> <li>Forest remetion according</li> </ol>	vit freezing	of with its	maguators	and .			8.0
M. Couring permitteds	W COTT	rightion	_				5.4
PROPOSED FOREST CLE	ARING						
N. Total area of forest	in his clear	ed	-				0.3
D. Your area of forest	to be retai	ned	_				12.8
PLANTING REQUIREMEN	VTS:						
P. Referestation for tile	aring abov	e conserva	tion trivial	said4			0.1
Q. Reforestation for cle	saring belo	IN CONSERVE	High thres	noid -			0.0
R. Credit for remotion a	strove can	servation th	MODEL .				6.0

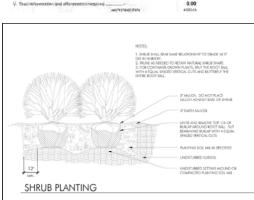
Fe	orest Conservation	Data Table	
	Number of Acres		
Tract	15.11		
Remaining in Agricultural Use			
Road & Utility ROV&1			
Total Bristing Forest	13.18		
Forest Retention	12.80		
Forest Cleared	0.38		
Land Use & Thresholds <sup>2</sup>			
Land Use Category	CDR	ARA COR MER IDA HOR	RMDP, or CIA
Conservation Threshold	45%	percent	
Afforestation Threshold	20%	percent	
	Total Channel Length	Aurrace Buffer Width	
	(ft.)	(tL) <sup>3</sup>	
Stream(s)	1,360	160	
Acres of Forest in	Retained	Cleared	Planted
Wetlands			
100-Year Floodplain	0.26		
Stream Buffers	8.24	0.06	0.28
Priority Areas	12.80	0.38	0.29

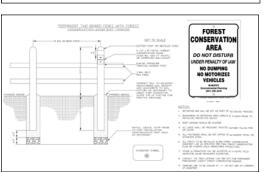
TREE MITIGATION NOTE
THIS PLAN PROPOSES THE REMOVAL OF NINE SPECIMEN TREES (#3628, 3629, 3630, & 3644).
THE PLANTING OF THIRTEEN MITIGATION TREES IS HEREBY PROPOSED. THE TREES WILL BE 3' CALIFER NATIVE MARYLAND PERMONET CANOPY TREES. THE LOCATIONS AND SPECIES OF SAID TREES ARE SUB-BCT TO PLACEMENT WITH MINOPPC FOREST CONSERVATION INSPECTORS APPROVAL.
TREE # DBH (pin)   3622
TOTAL DBH = 150 / 4 = 37.5" REQUIRED FOR MITIGATION
PROVIDE THIRTEEN, 3" CALIPER TREES TOTALING 39"
SEE TREE PLANTING SCHEDULE FOR TREES TO BE PLANTED:
A PRE-PLANTING MEETING WITH THE MNCPPC FOREST CONSERVATION INSPECTOR WILL BE REQUIRED PRIOR TO THE PLANTING OF THE TREES.

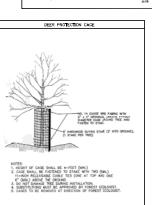
TREE MITIGAT	ON PLANTIN	IG SCHED	ULE		
BOTANICAL NAME	COMMON NAME	SEZE	FORM	SPACING	QUANT
SUGAR MAPLE	(Acer saccharum)	3" CALIPER	848	15'	5
WHITE DAK	(Quercus alba)	3" CALIPER	BAB	15'	5
AMERICAN BEECH	(Fagus grandifolia)	3" CALIPER	B&B	19	3
B&B = BALL & BURLAP					_



FOREST CONSERVATION WORKSHEET





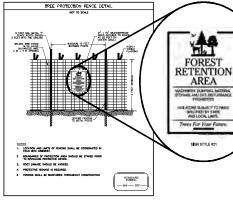


TREE DATA (CONT'D)
Tes Common Bulancial D.B.N. Condition
No. Space Space Condition

Resea Beresse Corpet

Name: Makestly occurring projections of traces ben'n be found in informal prospings. If yourse of trace is ready a mouse of officers opening progs. The objective of an observable information plan is to sales I the appropriate openine and destination partners for a chose offe that most carbonic partners.

The control class of a paper of the control class o



Just the time has been also day day day for the time

\_ \_

The planting or dark art pinks.
 The planting and care of time is most successful when coordinated with the local conditions.
 This collector commercial content of the recommended time increas for jests information and crimes reduction activities.

Recommended Optimal Into 
Recommended that Additional CoRecommended Into the Committee 
(Imperialment Lines Sin Committ

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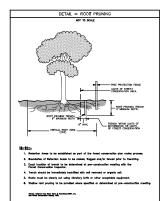
P10000000

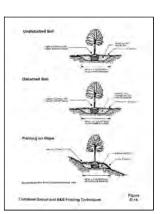
Figure A:20

District.

Facility (F









Kent Murphy 1800 Wilson Boulevard, Unit 449 Allington, VA 22201 (540) 558-8596 Phone 13635 Darnestown Road Parcel 606. Rich Meadows Proposed Lot A Preliminary / Final Forest Conservation Plan **Cover Sheet** 



INDEX OF DRAWINGS SHEET TITLE: P/FCP-1

JSC - Administrative Subdivision VICINITY MAP

Stry A. Ritz

JEFFREY A, ROBERTSON 69/19/2024

20878

Parcel 606, Rich Meadows Book 63849, Page 66, Recorded 06/2021

Darnestown Road Darnestown, Mary MNCPPC No. F620240060

COS



FROM:

## Department of Permitting Services Fire Department Access and Water Supply Comments

**DATE:** 10-Dec-23

TO: Jared Carhart - jcarhart@casengineering.com

CAS Engineering Marie LaBaw

RE: Rich Meadows Parcel 606

620240010

### PLAN APPROVED

1. Review based only upon information contained on the plan submitted 07-Dec-23 .Review and approval does not cover unsatisfactory installation resulting from errors, omissions, or failure to clearly indicate conditions on this plan.

2. Correction of unsatisfactory installation will be required upon inspection and service of notice of violation to a party responsible for the property.

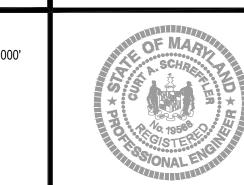
## **GENERAL NOTES**

Telephone - Verizon

- Boundary information and two-foot contour data are based upon surveys performed by CAS Engineering, dated October, 2021. Two-foot contour data not within the delineated "Limits of CAS Topographic Survey" is based upon available MNCPPC aerial topography, flown February, 2018.
- Total lot area: Parcel 606 = 15.17 acres. Property is located on Tax Map ES122 and WSSC 200' Sheet 221NW14.
- Soil type(s): See "Soils Table" Flood zone "X" per F.E.M.A. Firm Maps, Community Panel Number

4. Property is located on Soils Survey Map Number 18.

- 6. Property is located in the Seneca Creek Watershed.
- 7. Water Category 1, Sewer Category 1 8. Local utilities include: Water / Sewer - Washington Suburban Sanitary Commission Water / Sewer - Private Well and Septic Electric - PEPCO
- Gas Washington Gas Property is not located in a Special Protection Area.
- 10. Property is not a Historic Site or located in a Historic District. 11. This plan was created without the benefit of a title report.



DATE REVISION

1/22 JSC - Concept Plan Uploaded to ePlans for Initial Plan Review by M-NCP&PC

CURT A. SCHREFFLER, PE PROFESSIONAL ENGINEER 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. 19568, expiration date 3/8/2024, and that this plan

meets MCDPS criteria for building and sediment control permit applications.

10 South Bentz Street 301-607-8031 Phone www.casengineering.com

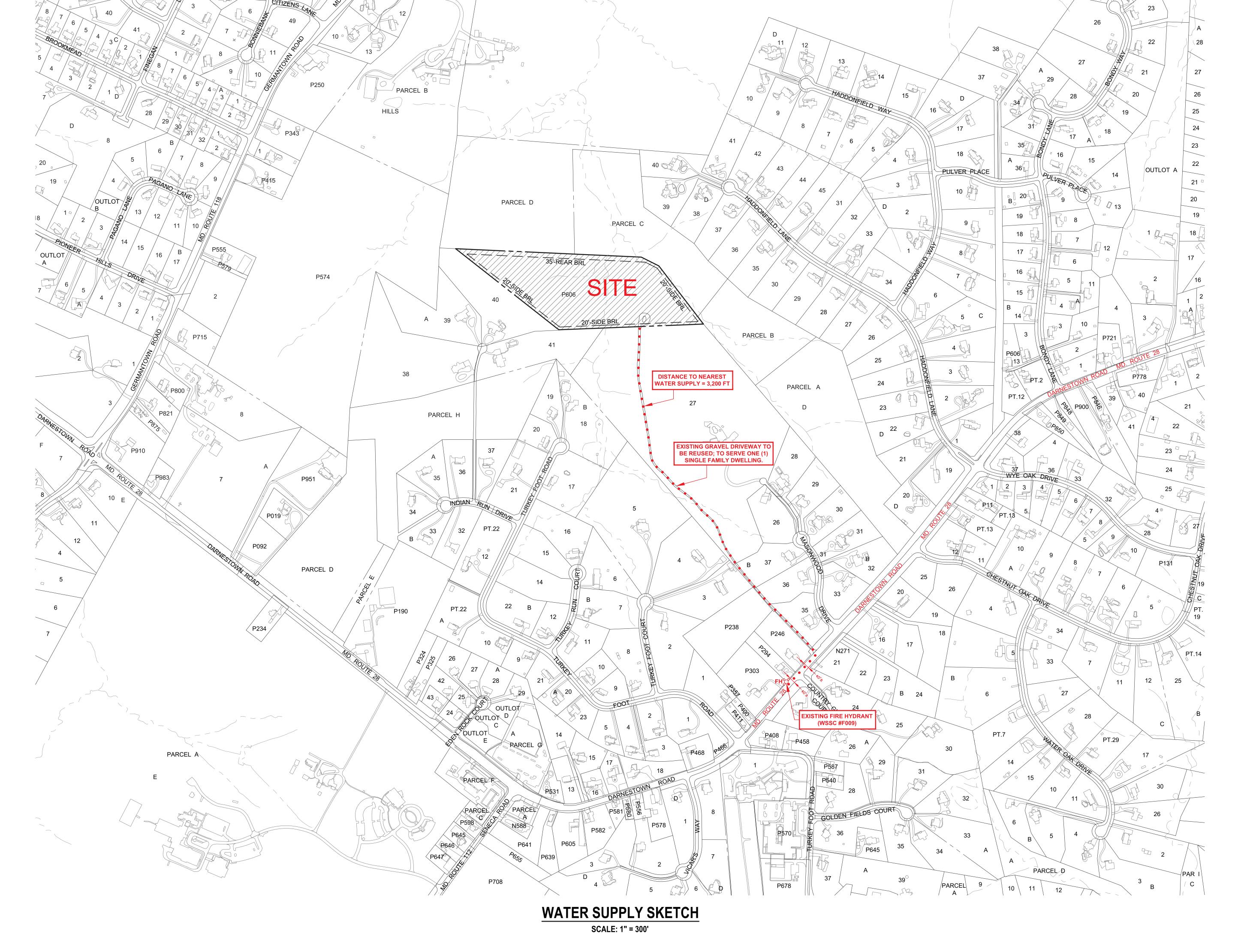
CAS ENGINEERING-DC, LLC 4836 MacArthur Boulevard, NW, 2nd Floor

SCALE: 1 INCH = 300 FEET

Fire Department Access Plan

FDAP-1

ADC MAP 5162, GRID D-2, SCALE: 1" = 2000'



FIRE DEPARTMENT ACCESS PLAN

M-NCP&PC No. 620240010

13635 Darnestown Road, Darnestown Parcel 606, Rich Meadows

FIRE CODE ENFORCEMENT Fire Department Access Review this plan. Does not cover unsatisfactory layout resulting from ommisions, errors or failure to clearly indicate conditions on this plan. Correction of such unsatisfactory layout to afford required

access will be required if found upon inspection BY: 5 MC FM: 43 DATE: 12/10/2023

kentmurphyemail@gmail.com 13635 Darnestown Road Parcel 606, Rich Meadows Proposed Lot A Fire Department Access Plan

1800 Wilson Boulevard, Unit 449

Arlington, VA 22201 (540) 558-8596 Phone

drawing or in the conditions of approval, the building footprints, building heights, on-site parking, site circulation, and sidewalks shown on the Administrative Subdivision Plan are illustrative. The final locations of buildings, structures and hardscape will be determined at the time of issuance of building permit(s). Please refer to the zoning data table for development standards such as setbacks, building restriction lines, building height, and lot coverage for each lot. Other limitations for site development may also be included in the conditions of the



### **DEPARTMENT OF PERMITTING SERVICES**

Marc Elrich County Executive Rabbiah Sabbakhan Director

September 26, 2024

Mr. Jared Carhart CAS Engineering - MD 10 South Bentz Street Frederick, MD 21701

Re: REVISED COMBINED STORMWATER

MANAGEMENT CONCEPT/SITE
DEVELOPMENT STORMWATER
MANAGEMENT PLAN for

13635 Darnestown Road Site Plan #: 620240010 SM File #: 289966

Tract Size/Zone: 15.17 ac. Total Concept Area: 15.17 ac. Lots/Block: Proposed Lot A

Parcel(s): P660

Watershed: Seneca Creek Redevelopment (Yes/No): No

Dear Mr. Carhart::

Based on a review by the Department of Permitting Services Review Staff, the revised stormwater management concept for the above-mentioned site is **acceptable**. The plan proposes to meet required stormwater management goals via the use of dry wells and a micro-infiltration trench.

The following items will need to be addressed during the detailed sediment control/stormwater management plan stage:

- 1. A detailed review of the stormwater management computations will occur at the time of detailed plan review.
- 2. An engineered sediment control plan must be submitted for this project.
- 3. All filtration media for manufactured best management practices, whether for new development or redevelopment, must consist of MDE approved material.
- 4. This approval replaces the previous approval dated January 5, 2024.

This list may not be all-inclusive and may change based on available information at the time.

Payment of a stormwater management contribution in accordance with Section 2 of the Stormwater Management Regulation 4-90 **is not required**.



Mr. Jared Carhart September 26, 2024 Page 2 of 2

This letter must appear on the sediment control/stormwater management plan at its initial submittal. The concept approval is based on all stormwater management structures being located outside of the Public Utility Easement, the Public Improvement Easement, and the Public Right of Way unless specifically approved on the concept plan. Any divergence from the information provided to this office; or additional information received during the development process; or a change in an applicable Executive Regulation may constitute grounds to rescind or amend any approval actions taken, and to reevaluate the site for additional or amended stormwater management requirements. If there are subsequent additions or modifications to the development, a separate concept request shall be required.

If you have any questions regarding these actions, please feel free to contact Patrick Fitzgerald at 240-777-6362; Patrick.fitzgerald@montgomerycountymd.gov.

Sincerely,

Mark Cheridge Mark Etheridge, Manager Water Resources Section

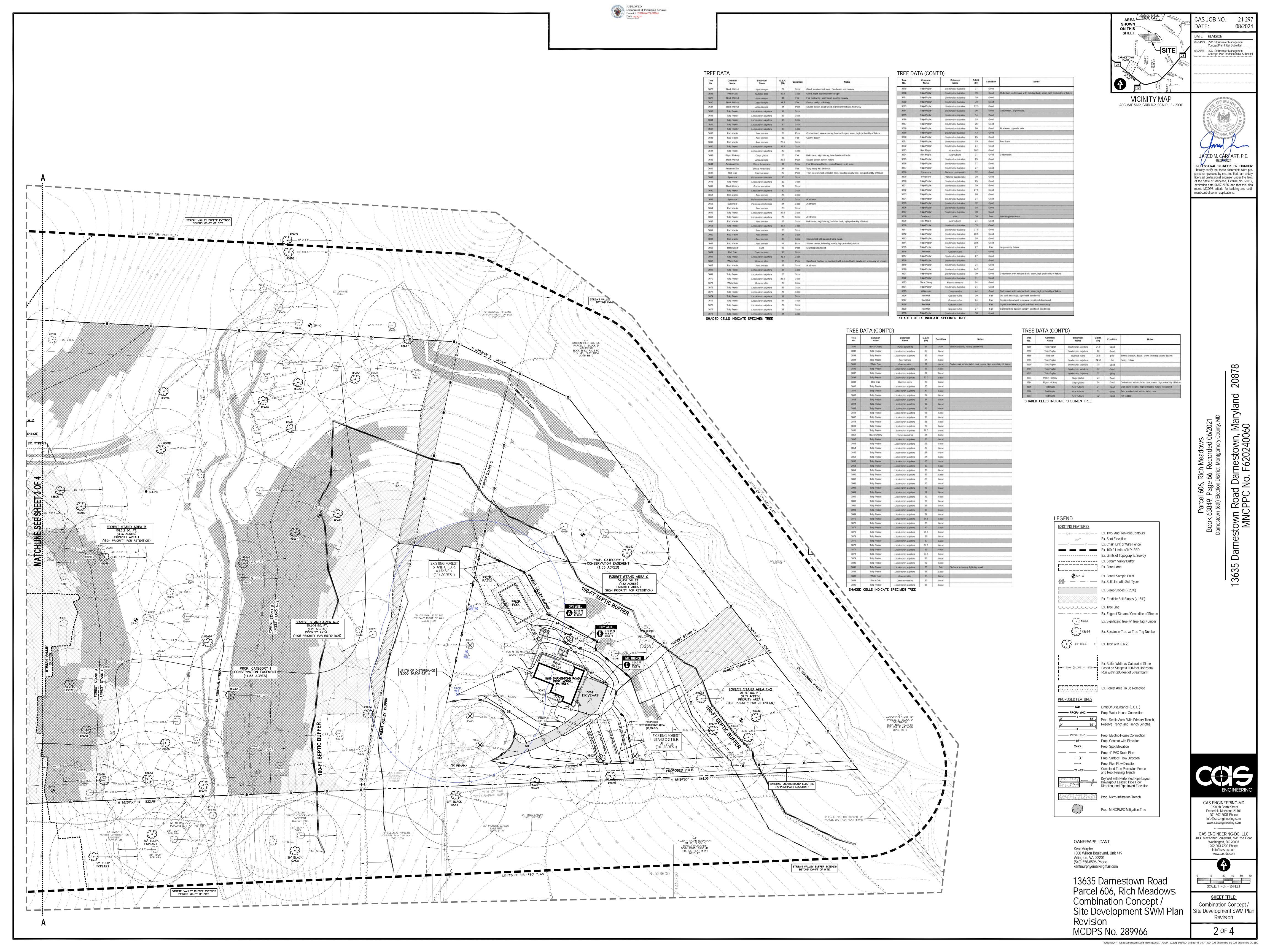
Division of Land Development Services

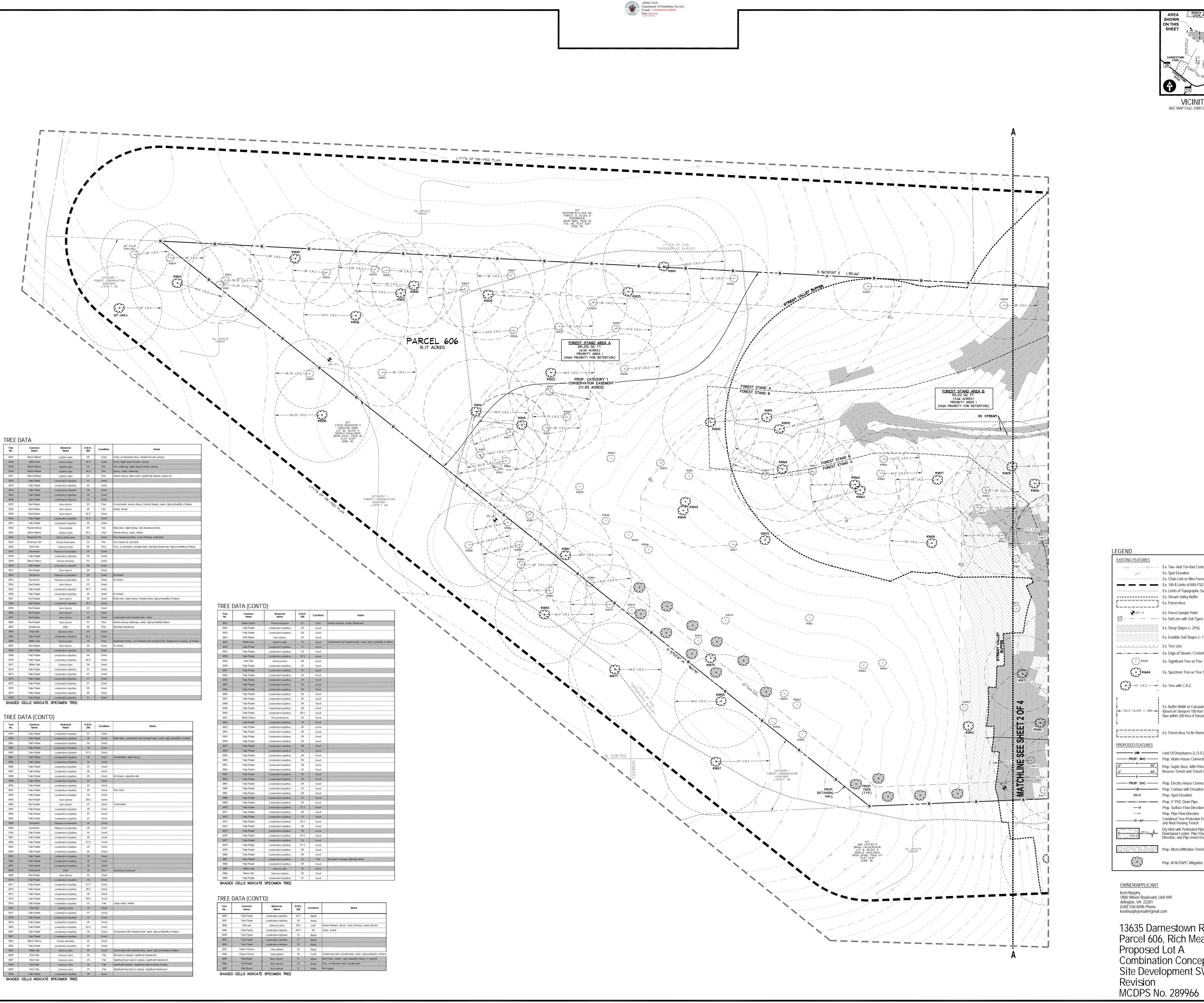
cc: Neil Braunstein SM File # 289966

ESD: Required/Provided 585 c.f. / 604 c.f.

PE: Target/Achieved: 1.0"/1.0"

STRUCTURAL: N/A WAIVED: N/A **GENERAL NOTES** Boundary information and two-foot contour data are based upon surveys DATE REVISION performed by CAS Engineering, dated October, 2021. Two-foot contour data not within the delineated "Limits of CAS Topographic Survey" is based upon 9/14/23 ISC -Stormwater Management available MNCPPC aerial topography, flown February, 2018. Concept Plan Initial Submittal Total lot area: Parcel 606 = 15.17 acres. Property is located on Tax Map ES122 and WSSC 200' Sheet 221NW14. Property is located on Soils Survey Map Number 18 COMBINATION CONCEPT/SITE DEVELOPMENT Soil type(s): See "Soils Table" Flood zone "X" per F.E.M.A. Firm Maps, Community Panel Number Property is located in the Seneca Creek Watershed Water Category - 6, Sewer Category - 6 8. Local utilities include: Water / Sewer - Private Well and Septic STORWATER MANAGEMENT PLAN REVISION VICINITY MAP Electric - PEPCO ADC MAP 5162, GRID D-2, SCALE: 1" = 2000' Telephone - Verizon Gas - Washington Gas Property is not located in a Special Protection Area. 10. Property is not a Historic Site or located in a Historic District. 11. This plan was created without the benefit of a title report RICH MEADOWS (PARCEL 606) 13635 DARNESTOWN ROAD pared or approved by me, and that I am a du of the State of Maryland, License No. 5101. expiration date 06/07/2025, and that this pla meets MCDPS criteria for building and sedi ment control permit applications. SM No. 289966 N/F HADDONFIELD HOA INC PARCEL C, BLOCK D BONDBROOK BOOK 8680, PAGE 50 P.B. 140, PLAT 16104 ZONE: RE-2 **AREA SHOWN** ON PAGE 3 OF 4 stown Road Darnestown, Mis MNCPPC No. F620240060 PARCEL 606 15.17 ACRES PROP. CATEGORY 1 CONSERVATION EASEMENT PROP. CATEGORY 1 CONSERVATION -(1.53 ACRES) **AREA SHOWN** ON PAGE 2 OF 4 HADDONFIELD HOA INC. PARCEL B, BLOCK D BONDBROOK BOOK 8680, PAGE 50 P.B. 139, PLAT 16065 ZONE: RE-2 5 88°39'30" W 322.96' CONCEPTUAL SEQUENCE OF CONSTRUCTION OWNER/APPLICANT 1. Prior to clearing trees, installing sediment control measures, or grading, a pre-construction meeting must be Kent Murphy conducted on-site with the Montgomery County Department of Permitting Services (MCDPS) Sediment Combined SWM Concept/SDP 1800 Wilson Boulevard, Unit 449 Control inspector (240) 777-0311 (48 hours notice) and the MNCPPC, Planning Department, Plans Arlington, VA 22201 Enforcement inspector (301)495-4550 (48 hours notice), the Owners representative, and the site Engineer. REVISION CAS ENGINEERING-MD (540) 558-8596 Phone In order for the meeting to occur, the applicant must provide the MCDPS Sediment Control Inspector with one 10 South Bentz Street SWM CONCEPT SUMMARY TABLE kentmurphyemail@gmail.com Accepted for DPS approved copy of the approved Sediment Control Plan and one approved copy of the Right-of-Way and Frederick, Maryland 21701 CONTACT INFORMATION FOR DESIGN ENGINEER (FOR TECHNICAL ISSUES): JARED CARHART (301-703-2346) Roadside Tree Plan (when one is required) at the pre-construction meeting. If no plans are provided, the 301-607-8031 Phone Patrick Fitzgerald GENERAL PROPERTY INFORMATION: 13635 Darnestown Road meeting shall not occur and will need to be rescheduled prior to commencing any work. info@casengineering.com 09/26/2024 www.casengineering.com 2. The limits of disturbance (L.O.D.) must be field marked prior to clearing of trees, installation of sediment TYPE OF CONCEPT: COMBINATION CONCEPT / SITE DEVELOPMENT STORMWATER MANAGEMENT PLAN control measures, construction, or other land disturbing activities. Parcel 606, Rich Meadows MNCP&PC PROCESS/NO: ADMINISTRATIVE SUBDIVISION #620240010 3. Staging, access, and stockpiling activities may not occur beyond the approved limits of disturbance (L.O.D.) CAS ENGINEERING-DC, LL Proposed Lot A
Combination Concept /
Site Development SWM Plan
Cover Sheet Revision PROPERTY ADDRESS: 13635 DARNESTOWN ROAD, DARNESTOWN, MD 20878 4836 MacArthur Boulevard, NW, 2nd Floo PROPERTY LEGAL DESCRIPTION: PROPOSED LOT A, RICH MEADOWS (PARCEL P660) 4. The permittee must obtain written approval form the MNCPPC inspector, certifying that the limits of disturbance Washington, DC 20007 PROPERTY SIZE (AC./SQ.FT.): 15.17 ACRES / 660,805.20 SQUARE FEET 202-393-7200 Phone and tree protection measures are correctly marked and installed prior to commencing any clearing. TOTAL CONCEPT AREA (AC./SQ.FT.): 15.17 ACRES / 660,805.20 SQUARE FEET info@cas-dc.com 5. Clear and grade for installation of sediment control devices. www.cas-dc.com Install sediment control devices. WATERSHED AND STREAM CLASS: SENECA CREEK WATERSHED (CLASS IV-P) 7. Once the sediment control devices are installed, the permittee must obtain written approval from the MCDPS SPECIAL PROTECTION AREA: N/A inspector before proceeding with any additional cleaning, grubbing or grading. 100-YR FLOODPLAINS: FLOODPLAIN DELINEATION SHOWN HEREON IS PER FPS# 231363 8. The Stabilized Construction Entrance (SCE) is an erosion and sediment control practice and must remain EX % IMPERVIOUS/REDEVELOPMENT OR NEW DEVELOPMENT: NEW DEVELOPMENT in place until written permission is granted from the inspector for its removal. MCDPS No. 289966 9. Initiate rough grading. Temporarily seed any areas not to be re-graded within 7 days. UTILITY INFORMATION TARGET P<sub>E</sub> / PROPOSED P<sub>E</sub>: 1.00 IN. / 1.03 IN. 10. Install base courses for driveway, complete house construction, etc. SCALE: 1 INCH = 50 FEET TARGET ESDv / PROVIDED ESDv: 584.6 C.F. / 604.4 C.F. EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND 11. Gutters and downspouts to be installed early as possible, subject to availability of materials and labor. MUST BE FIELD VERIFIED. UTILITY LOCATIONS ARE BASED UPON ESD MEASURES: DRYWELLS (2), MICRO-INFILTRATION TRENCH (1) AVAILABLE RECORDS AND ARE SHOWN TO THE BEST OF OUR ABILITY. 12. Install stormwater management devices and associated piping but do not connect to downspouts at this time. INDEX OF DRAWINGS SHEET TITLE: STRUCTURAL STORAGE REQUIRED/PROVIDED: 0 C.F. / 0 C.F. FOR LOCATION OF UTILITIES, CALL "MISS UTILITY" AT 1-800-257-7777, OR LOG ON TO WWW.MISSUTILITY'.NET/ITIC 48 HOURS IN ADVANCE OF ANY WORK IN THIS VICINITY. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDER GROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE. 13. Pave driveway, install entrances per MCDOT permit, permanently stabilize all remaining areas. STRUCTURAL MEASURES: N/A Combination Concept / NO. SHEET TITLE 14. Connect downspouts to roof drain piping and stormwater management devices. WAIVER REQUEST / QL / QN / BOTH: NO PROVIDED ESDv + STRUCTURAL STORAGE PROVIDED + REQUESTED TO BE WAIVED = 604.4 C.F. Site Development SWM Pla 15. Provide signed record set of plans to the sediment control inspector. 1 of 4 Cover Sheet - Site Plan OTHER INFORMATION: 16. Obtain written approval from MCDPS inspector, prior to the removal of any sediment control device. **Cover Sheet Revision** Combination Concept / Site Development SWM Plan Combination Concept / Site Development SWM Plan 1 OF 4 4 of 4 Stormwater Computation P:\2021\21297\_\_13635 Damestown Road\6 drawings\21297\_ADMIN\_V3.dwg, 8/28/2024 1:59:35 PM, smf, © 2024 CAS Engineering and CAS Engineering-DC, LLC





09/14/23 JSC -Stormwater Management Concept Plan Initial Submittal 08/29/24 JSC -Stormwater Management Concept Plan Revision Initial Submitta VICINITY MAP ADC MAP 5162, GRID D-2, SCALE: 1" = 2000'

REVISION

of the State of Maryland, License No. 5101 ment control permit applications.

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws expiration date 06/07/2025, and that this plan meets MCDPS criteria for building and sedi-

SP-A Ex. Forest Sample Point 2UB Ex. Soil Line with Soil Types Ex. Steep Slopes (> 25%) Ex. Erodible Soil Slopes (> 15%) Ex. Tree Line **— · · · – · · · – · · · – · · · Ex.** Edge of Stream / Centerline of Stream Ex. Significant Tree w/ Tree Tag Number #3684 Ex. Specimen Tree w/ Tree Tag Number xx' c.r.z. Ex. Tree with C.R.Z. Ex. Buffer Width w/ Calculated Slope Based on Steepest 100-foot Horizontal Run within 200-feet of Streambank Ex. Forest Area To Be Removed PROPOSED FEATURES Limit Of Disturbance (L.O.D.)

—428— — —430— — Ex. Two- And Ten-foot Contours

—  $\circ$  — Ex. Chain Link or Wire Fence

Ex. Spot Elevation

---- Ex. Limits of Topographic Survey

——— PROP: WHC ——— Prop. Water-House Connection s — 55' Prop. Septic Area, With Primary Trench, 55', Reserve Trench and Trench Lengths \_\_\_\_\_s \_\_\_\_\_ˈ ——— PROP.: EHC ——— Prop. Electric-House Connection Prop. Contour with Elevation xx+x Prop. Spot Elevation Prop. 4" PVC Drain Pipe Prop. Surface Flow Direction  $\longrightarrow$ Prop. Pipe Flow Direction \_\_\_\_\_\_TP\_RP\_\_\_\_\_Combined Tree Protection Fence and Root Pruning Trench Dry Well with Perforated Pipe Layout, Downspout Leader, Pipe Flow Direction, and Pipe Invert Elevation

Prop. Micro-Infiltration Trench Prop. M-NCP&PC Mitigation Tree

OWNER/APPLICANT Kent Murphy 1800 Wilson Boulevard, Unit 449 Arlington, VA 22201 (540) 558-8596 Phone kentmurphyemail@gmail.com

13635 Darnestown Road Parcel 606, Rich Meadows Proposed Lot A Combination Concept / Site Development SWM Plan Revision

info@cas-dc.com www.cas-dc.com 15 30 40 50 6 SCALE: 1 INCH = 30 FEET

SHEET TITLE: Combination Concept / Site Development SWM Plan Revision

**ENGINEERING** 

CAS ENGINEERING-MD

10 South Bentz Street

Frederick, Maryland 21701

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CAS ENGINEERING-DC, LLC

4836 MacArthur Boulevard, NW, 2nd Floor

Washington, DC 20007 202-393-7200 Phone

P:\2021\21297\_\_13635 Darnestown Road\6 drawings\21297\_ADMIN\_V3.dwg, 8/28/2024 2:49:47 PM, smf, © 2024 CAS Engineering and CAS Engineering-DC, LLC

MCDPS No. 289966 3 OF 4



## CAS ENGINEERING DRAINAGE NOTES

sized for a 100-year storm event.

- 1. All storm drain pipe to be Schedule 40 PVC or of higher quality. 2. Downspout leaders originating directly from downspouts to be 4" diameter PVC, unless noted otherwise.
- 3. Maintain minimum 12" cover over all pipe. Pipe slopes to be 2% minimum. 4. All areaway and window well drains to sump pump - by plumber - unless noted otherwise.
- 5. Sump pump discharge to be located so as to avoid impact to the neighboring properties and to avoid recirculation of water.
- 6. The permittee shall install a splash block at the bottom of each downspout. 7. Maintenance of gutters, downspouts, leaf filters, inlets, drain pipes, drainage swales, drywells and other

drainage related items should be performed as needed, but at least twice per year.

- 8. Drainage swales and drainage patterns shall not be impeded with trees, landscaping, fences, etc. 9. Window wells shall have a minimum freeboard of 6 inches and should be kept free of leaves and debris.
- 10. Ground cover (sod, seed, etc.) shall be selected based on soil conditions, drainage, sun exposure, final grade slopes, etc. per M.D.E. specifications. 11. Multi-Flow™ or equivalent drainage systems are recommended in lawn areas with a 3% slope or less.
- 12. Gutters and downspouts to be installed early as possible, subject to availability of materials and labor.

5. Impermeable liners may be used when specified by the

6. Overflow pipes may be used when specified by the design

engineer and shown on the plan. They shall be set at a minimum 2% slope. If the outfall is to daylight the outfall

7. Pop-up emitters may be used when specified by the design

**OBSERVATION WELL**/ **CLEANOUT CAP DETAIL:** 

IN-LINE FILTERING DEVICE DETAIL:

In-Line
 Angled Screen
 3' - 4' from ground

SEPTEMBER 2021

SCALE: NONE

• Filterless

**EXAMPLE LAYOUTS\*- PLAN VIEW:** 

design engineer and shown on the plan.

engineer and shown on the plan.

• 5 feet from property lines, Zero from R/W \* Design plans must show the layout of each dry well.

DRY WELL FOR

**ROOF RUNOFF** 

DETAIL

/-Downspout

invert shall be shown.

、 Water−tight cap ¬

10 feet from slab-on-grade buildings/pools

MINIMUM SETBACKS:

15 feet from buried foundations

• 30 feet from septic trench or tank

or open loop geothermal well 50 feet from alternate well location

or closed loop geothermal well

So as to avoid basement seepage

<del>-----</del>90°<del>-----</del>

In accordance with other county

**PVC PIPE:** 

3/8 Inch holes

90° around pipe

MONTGOMERY COUNTY

DEPARTMENT OF

PERMITTING SERVICES

WATER RESOURCES SECTION

100 feet from primary well location

15 feet from another dry well

- 13. Sediment control devices must be inspected daily and with extra care before storm events. On disturbed sites they should be monitored during storm events.
- 14. Areas where construction is complete, such as side and rear yards, should be permanently stabilized as early as possible and in conformance with M.D.E. specifications. 15. Sump pumps serving driveways, patios, areaways, and other large open impervious surfaces must be

ESD COMPUTATIONS - 13635 Darnestown Road (HYDROLOGIC SOIL GROUP B)									
TDTAL LDT AREA FDR P <sub>e</sub> Oetermination	TOTAL LDT IMPERVIDUS AREA FOR P <sub>e</sub> determination	LDT IMPERVIDUS AREA PERCENTAGE (I) FDR $P_{\rm E}$ DETERMINATION	P <sub>E</sub> = RAINFALL TARGET (INCHES) APPLY IMPERVIDUS COVER PERCENTAGE TO TABLE 5.3						
660,805 SF	9,201 SF	1.39 %	1.0 IN	PER SECTION 5.2.3, THE SIZE OF ANY PRACTICE IS LIMITED TO THE RUNOFF					
TDTAL L.O.O. AREA FOR R <sub>V</sub> & ESO <sub>V</sub> DETERMINATION			R <sub>V</sub> = RUNDFF VDLUME 0.05 + 0.009(I) (I = Impervious Percentage)	FROM THE 1-YEAR 24-HOUR STORM $(Q_{E}) \text{ VOLUME} = (Area) \times 2.6 \text{ in (Pe Max)} \times (R_{V}) / R_{V}$					
30,500 SF	6,115 SF	20.05%	0.23	VOLUME PROVIDED VIA ESD DEVICE NOT					
DETERMINE ESD <sub>V</sub> REQUIRED BASED DN THE L.D.D.		RGET ESD <sub>V</sub> = (PE) x (RV) x (A) / = 1 (PE) x 0.23 (Rv) x 30500 (A)		EXCEED THE $  Q_{\epsilon}   MAXIMUM  (1-YEAR  STORM) $					

TOTAL SITE ESD VOLUME REQUIRED: 584.6 CF

DRYWELL Structure	IMPERVIOUS Area Numbers	DRAINAGE Area (Sq. Ft.)	MINIMUM REQUIRED ESD $_{v}$ $P_{e}=1.0\ \text{In}$ (cubic feet)	DRY WELL DIMENSIONS (FEET)	DRY WELL Surface Area (Square Feet)	TOTAL DRY WELL VOLUME (CUBIC FEET)	Q <sub>e</sub> maximum volume check (1-year storm: 2.6 in)	DRY WELL VOLUME PROVIDED (CUBIC FEET)
			DATA BELOV	V ROUNDED TO 1 DECIMAL	. PLACE; Rv FOR DRYWELLS I	S 0.95 (100% IMPERVIOUS ROOF AF	REA)	
	6	168 SF						
_	7	304 SF	ESDv = 712 (A) x 1.0 (Pe Min) x 0.95 (Rv)	9.75 (LENGTH)	A = 9.75 (L) x 7.5 (W)	$V = 73.1 (A) \times 5 (D) \times 0.4$	ESDv = $\frac{712 \text{ (A) } \times 2.6 \text{ (Pe Max) } \times 0.95 \text{ (Rv)}}{1.00 \times 10^{-2} \text{ (Rv)}}$	
A RDOF	8	240 SF	12	7.5 (WIOTH)	A = 73.1 SF	V = 146.2 CF	12	146.2 CF
			ESDv Min = 56.4 CF	5.0 (OEPTH)	A = 75.151	V = 140.2 OI	ESDv Max = 146.6 CF	
	TDTAL	712 SF						
	5	168 SF						
	9	140 SF	ESDv = 848 (A) x 1.0 (Pe Min) x 0.95 (Rv)	10.25 (LENGTH)	A = 10.25 (L) x 8.5 (W)	$V = 87.1 (A) \times 5 (D) \times 0.4$	ESDv = 848 (A) x 2.6 (Pe Max) x 0.95 (Rv)	
B RDOF	10	140 SF	12	8.5 (WIOTH)	A = 87.1 SF	V = 174.2 CF	12	174.2 CF
	12	400 SF	ESDv Min = 67.1 CF	5.0 (OEPTH)	A = 01.1 31	V = 174.2 OI	ESDv Max = 174.5 CF	
	TOTAL	848 SF						

MICRO-INFILTRATION Trench (M.I.T.)	IMPERVIOUS Area Numbers	DRAINAGE AREA (SQ. FT.)	MINIMUM REQUIRED ESD $_{v}$ $P_{e}=1.0 \text{ In}$ (cubic feet)	MICRO-INFILTRATION TRENCH DIMENSIONS (FEET)	MICRO-INFILTRATION TRENCH SURFACE AREA (SQUARE FEET)	MICRO-INFILTRATION TRENCH VOLUME (CUBIC FEET)	Q <sub>e</sub> maximum volume check (1-year storm: 2.6 in)	MICRO-INFILTRATION TRENCH VOLUME (CUBIC FEET)
C Oriveway	3	680 SF	ESDv = $\frac{680 \text{ (A) x 1.0 (Pe min) x 0.95 (Rv)}}{12}$ ESDv Min = 53.8 CF	20.0 (LENGTH) 2.1 (WIDTH) 5.0 (DEPTH)	A = 20 (L) x 2.1 (W) A = 42.0 SF	V = 42 (A) x 5 (D) x 0.4 V = 84 CF	ESDv = $\frac{680(A) \times 2.6 \text{ (Pe max)} \times 0.95 \text{ (Rv)}}{12}$ ESDv Max = 140.0 CF	84. CF
	TOTAL	680 SF						
	1	3,086 SF	DRIVEWAY (NDT WITHIN LOO0 - NDT TREAT	ED BY THIS PLAN.				
	2	1,265 SF	ORIVEWAY (WITHIN LDO) - NOT TREATED B	Y THIS PLAN.				
	4	220 SF	ORIVEWAY (WITHIN LDO) - NOT TREATED B	Y THIS PLAN.				
AREAS NOT Treateo	11	351 SF	PATIO - NDT TREATED BY THIS PLAN.					
IIILATEO	13	203 SF	WALK - NOT TREATED BY THIS PLAN.					
	14	1,836 SF	POOL & PATIO - NOT TREATED BY THIS PLA	N.				
1		<del> </del>						

TOTAL SITE IMPERVIOUS AREA 9,201 SF IMPERVIOUS AREA IN RIGHT-OF-WAY 0.0 SF	ESOV PROVICED VIA ORY WELLS	ESOV PRDVIOEO VIA OISCONNECTS	ESOV PROVIOED VIA Micro-infiltration trench	ESOV PROVIOED VIA Landscape infiltration	ESOV PROVIOED VIA PERMEABLE PAVEMENTS
TOTAL ESO <sub>V</sub> PRDVIDED	520.4 CF	0.0 CF	84.0 CF	0.0 CF	0.0 CF
IS ESO <sub>V</sub> ADEQUATE	604.4 CF >	584.6 CF	EQD TO THE	MEP. FULL ESD PROVIDED	
IS P <sub>e</sub> adequate	1.03 IN >	1.00 IN	E3D 10 1HE	MILE, FOLL LOD PROVIDED	

TOTAL 6,961 SF

	DRYWELL SCHEDULE - 13635 Darnestown Road												
DRYWELL STRUCTURE	FINISHEO GRAOE (LOW SIOE)	FINISHEO GRAOE (HIGH SIOE)	ELEVATION AT TOP OF GRAVEL (1'-3' cover)	COVER OEPTH OVER ORY WELL ON HIGH SIOE (3' MAX.)	PIPE INVERT IN FROM OOWNSPOUTS	TOTAL OEPTH OF GRAVEL (4' max. depth)	ELEVATION AT BOTTOM OF GRAVEL	TOTAL OEPTH OF SAND	ELEVATION AT BOTTOM OF SAND	TOTAL DEPTH OF ORYWELL (gravel + sand, 5' max. depth)	TOTAL OEPTH OF ORYWELL FROM GRAOE (8' max. depth)	RECOMMENDEO OVERFLOW	
A	346.5	348.0	345.0	3.0	344.0	4.0 ft	341.0	1.0 ft	340.0	5.0 ft	8.0 ft	POP UP EMITTER AT ORY WELL CLEANOUTS	
В	350.0	351.5	348.5	3.0	347.5	4.0 ft	344.5	1.0 ft	343.5	5.0 ft	8.0 ft	ANO A SURCHARGE PIPE AT EACH OOWNSPOUT.	

**GENERAL NOTES:** 

Sand Specifications.

minimum setbacks.

Downspouts shall be shown on the

downspout(s) to the dry well shall be

connections from other downspouts.

shown on the plan view, including

Standard, readily-available bends

When possible there should be only

one conveyance pipe entering the dry

well. It should be centered and should

The interior 6" PVC perforated pipe shall

be designed and shown on the plan to maximize distribution within the dry well.

When a dry well's length is greater than

pipe along the longest dimension.

shall be shown on the plan view.

its width, consider locating the perforated • Schedule 40 PVC

The observation well with cleanout cap
 4" on center

Conveyance pipe(s) from the

shall be used at couplings.

enter at 90 degrees.

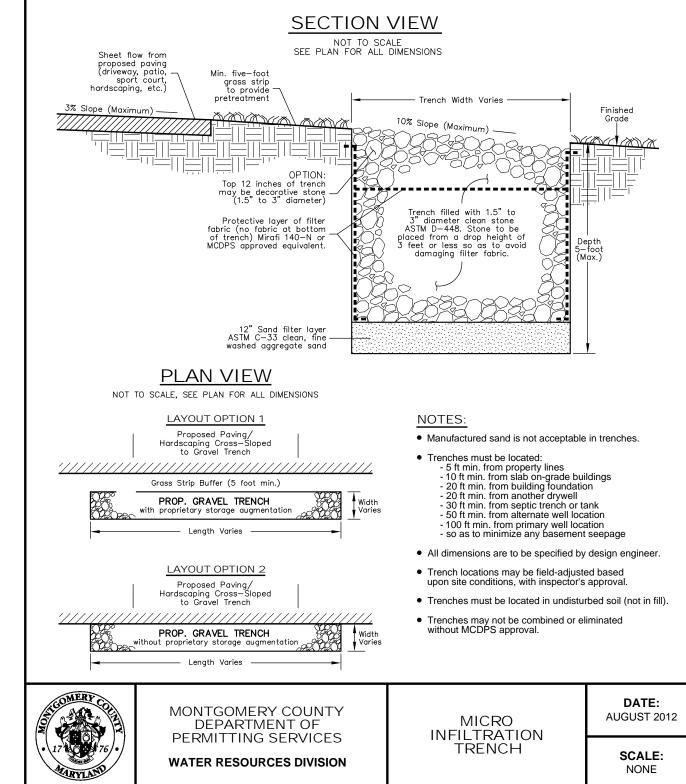
1. Dry wells may receive water from roof downspouts only.

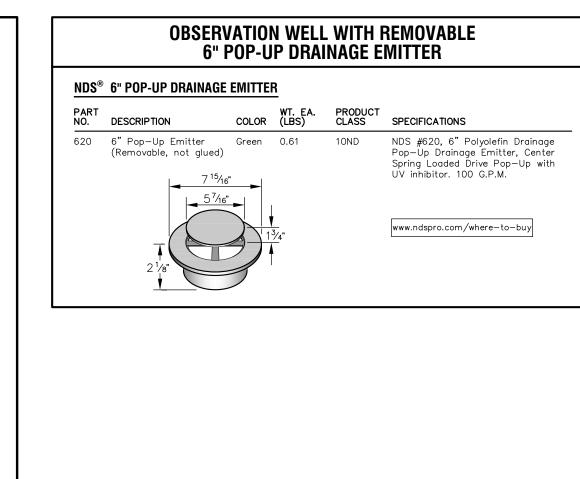
specified by the design engineer on the approved plan.

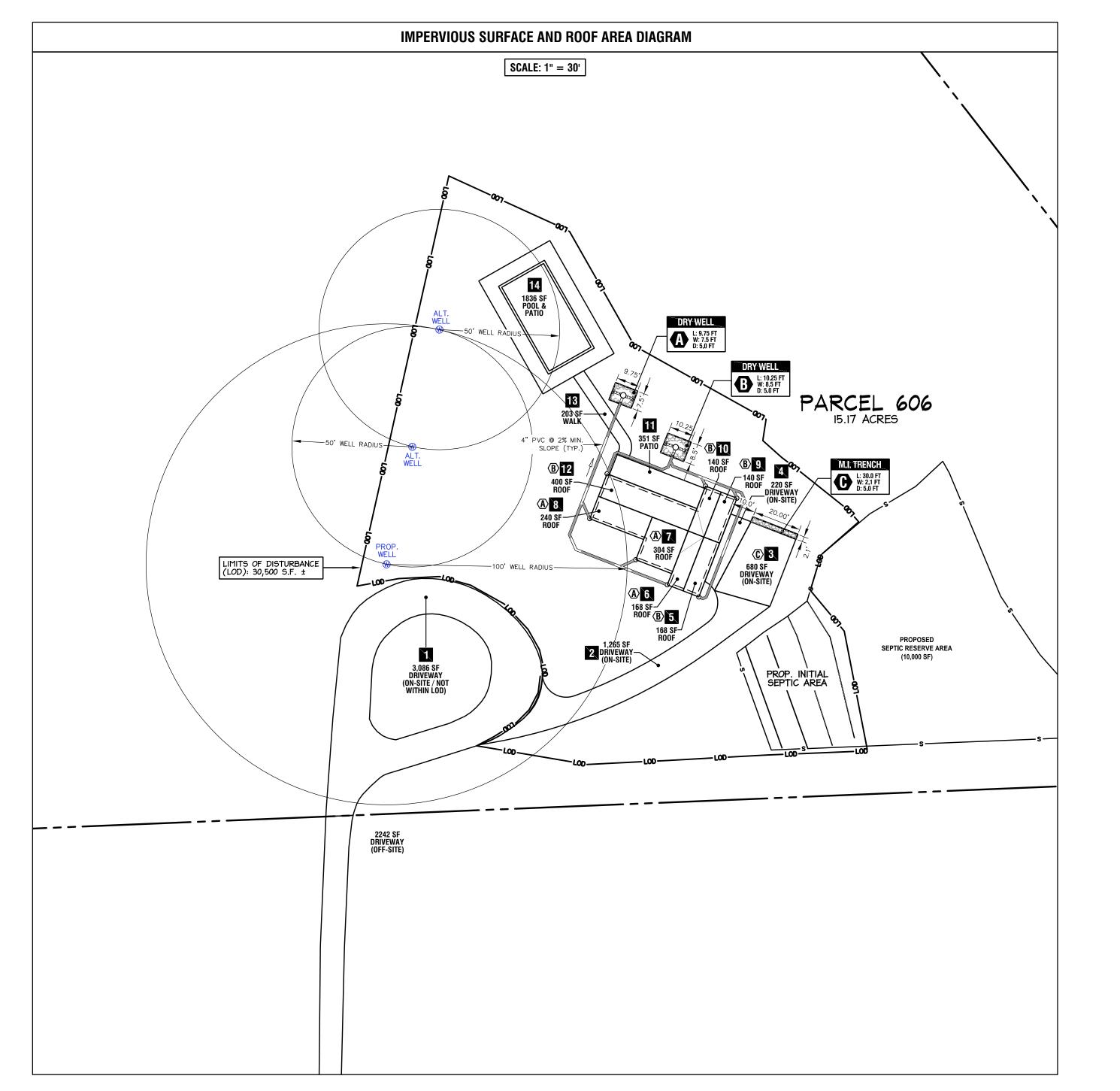
3. Manufactured sand is not acceptable. Refer to the MCDPS

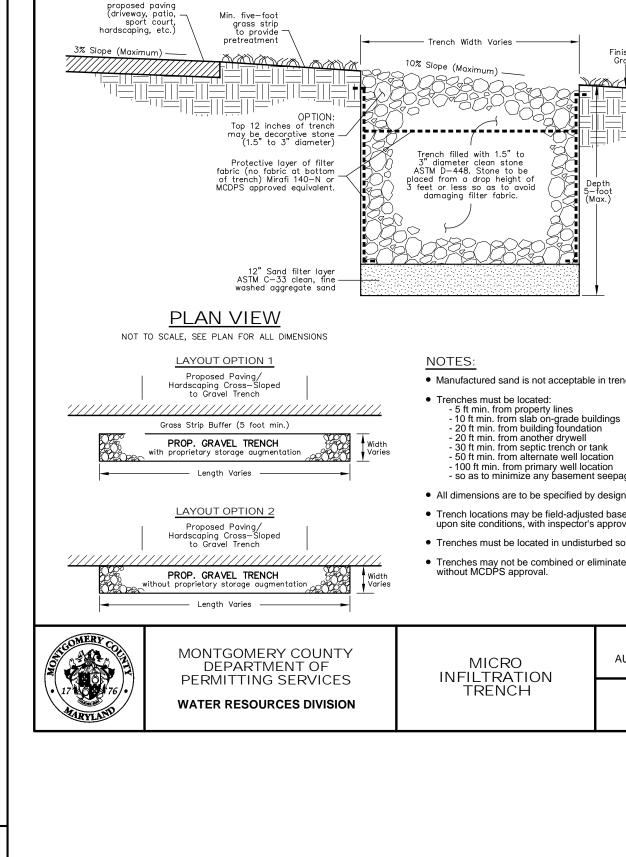
4. With the inspector's approval, dry well locations may be field adjusted for site conditions. All adjustments must meet the

2. Length, width, and depth of each dry well is to be as











13635 Darnestown Road
Parcel 606, Rich Meadows
Combination Concept /
Site Development SWM Plan
Revision MCDPS No. 289966

DATE REVISION 09/14/23 JSC -Stormwater Management Concept Plan Initial Submittal 08/29/24 JSC -Stormwater Management Concept Plan Revision Initial Submittal

PROFESSIONAL ENGINEER CERTIFICATION:

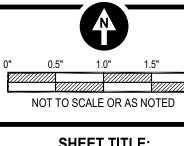
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 51012 expiration date 06/07/2025, and that this plan meets MCDPS criteria for building and sediment control permit applications.

20878

3635

CAS ENGINEERING-MD 10 South Bentz Street

Frederick, Maryland 21701 301-607-8031 Phone info@casengineering.com www.casengineering.com CAS ENGINEERING-DC, LLC 4836 MacArthur Boulevard, NW, 2nd Floor Washington, DC 20007 202-393-7200 Phone info@cas-dc.com www.cas-dc.com



Combination Concept / Site Development SWM Plar Revision

4 OF 4 P:\2021\21297\_\_13635 Darnestown Road\6 drawings\21297\_ADMIN\_V3.dwg, 8/28/2024 2:54:54 PM, smf, © 2024 CAS Engineering and CAS Engineering-DC, LLC



### DEPARTMENT OF PERMITTING SERVICES

Marc Elrich
County Executive

Rabbiah Sabbakhan Director

### MEMORANDUM

October 25, 2024

TO:

**Jeffrey Server** 

**Development Review** 

Maryland National Capital Park and Planning Commission

FROM:

Megan Wilhelm

More

Well and Septic Section

**Department of Permitting Services** 

SUBJECT:

Status of Administrative Subdivision, Rich Meadows, parcel 606:

Rich Meadows 13635 Darnestown Road Darnestown, MD 20878 Preliminary Plan #620240010

This is to notify you that the Well & Septic Section of MCDPS approved the final well and septic plan (#293063) received in this office on May 15, 2024.

Approved with the following reservations:

- 1. The record plat must show the septic reserve area as it is shown on this plan with the 20 ft SBRL.
- 2. The septic reserve area is approved for a maximum of five bedrooms.
- 3. The septic field building restriction line is subject to change upon reapproval by the MCDPS Well and Septic section.
- 4. Forest conservation easements established after this approval must meet all minimum well and septic setback requirements:
  - a. 5 feet from all septic areas
  - b. 10 feet from all well sites
- 5. Stream Valley Buffers established after this approval, must not encroach within the septic area boundaries. Sewage disposal areas require a separation distance of 100 feet from all streams.



If you have any questions, please contact Megan Wilhelm at (240) 777-6271.

From: Steve Boukedes and Caroline Owen (Adjacent Lot 40)

15605 Indian Run Ct. Darnestown, MD 20878

**To:** Intake and Regulatory Coordination Division (IRC)

M-NCPPC

2425 Reedie Drive Wheaton, MD 20902

Subject: Questions on Development Plan Number 620240010 - Rich Meadows, Parcel 606

### Hello,

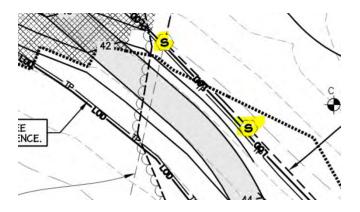
We received a letter dated 10/24/2023 informing us of the proposed development on the adjacent lot, and after checking online for a week, we still do not see a lead reviewer assigned to this plan. We are writing to hopefully get more information about this proposal- specifically, items that are documented on Administrative Subdivision Plan AP-6:

1. What do the Hexagon-S symbols represent?

Based on past plans submitted by this engineering firm, I believe the hexagons with the S inside are proposed Forest Conservation Easement (forest to be protected) signs. I don't see it in the legend, so I will ask them to add it.

The typical sign is a 4"x4" post and sign like this:



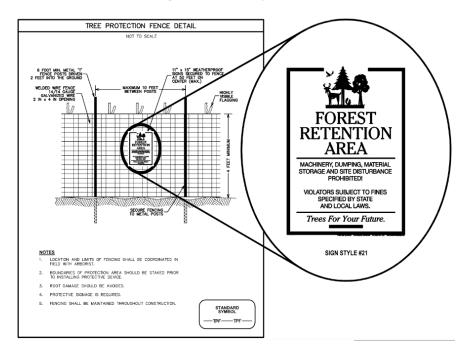


2. What is the purpose of the very large Accessory Structure?

That information isn't really part of my review, but the engineer said they intend on using it for vehicle/equipment storage. The structure does appear to be larger than what is permitted in the Zoning Ordinance. The Montgomery County Department of Permitting Services, zoning Section, will be reviewing the application and they will provide feedback regarding the size of the building.

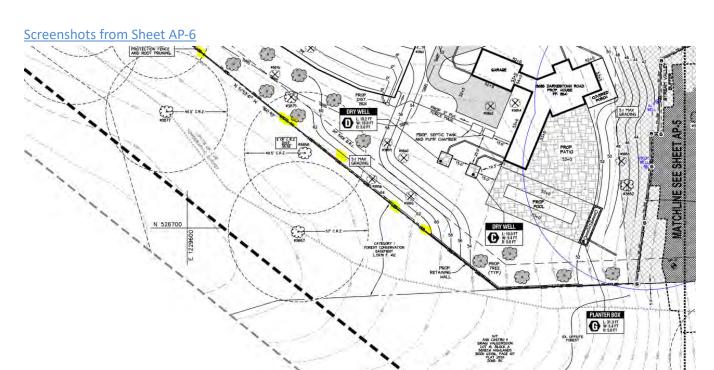
3. Is the tree protection fence temporary? If not, can you describe the style and height?

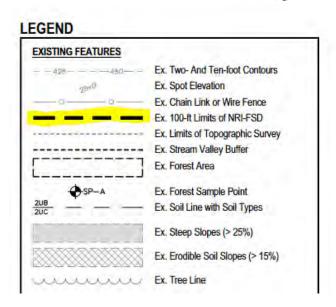
The tree protection fencing (TPF) is a temporary measure that helps protect existing trees from damage during the construction process. The TPF will be removed once construction is complete. The Forest Conservation Easement signs (above) are permanent.



4. What is the purpose of the dashed line labeled **Limits of NRF-FSD Plan**? Since this extends into our lot we expect that there would be zero incursion/disturbance of this area but could you please clarify?

The limits of the NRI-FSD (100 feet from the property line) are distinctly different than the Limits-of-disturbance (LOD) identified in yellow on the plan below. The NRI-FSD limit (highlighted in the legend) is the area they need to look at to identify environmental features, including significant trees, streams, etc. The inventory area does extend outside of the subject property, in order to assess impacts to the off-site trees etc. All land disturbance will occur inside the LOD.





I am happy to communicate via email at boukemail@gmail.com.

Thank you,

Steve Boukedes and Caroline Owen