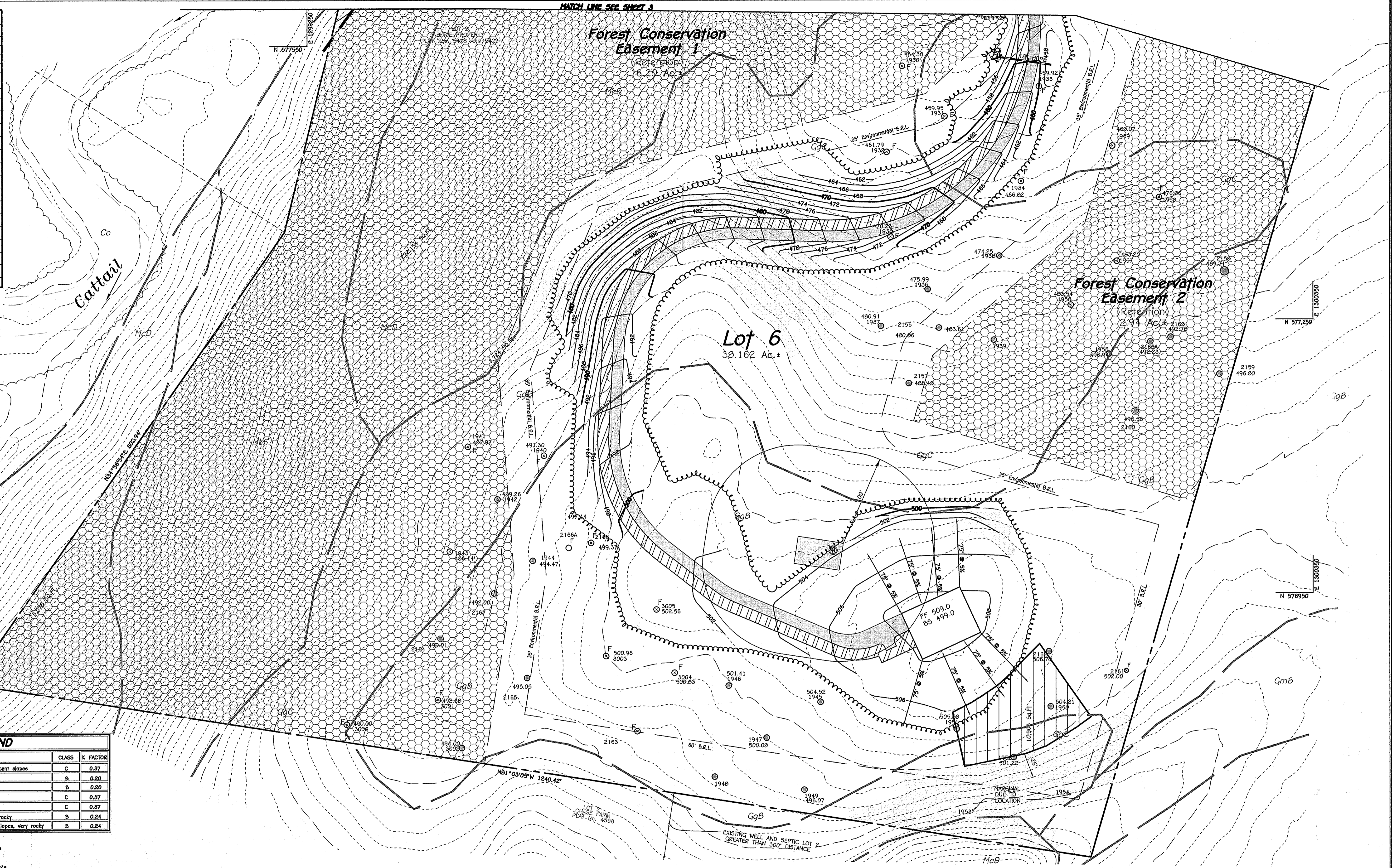


MATCH LINE SEE SHEET 3

LEGEND	
SYMBOL	DESCRIPTION
	EXISTING 2' CONTOURS
	EXISTING 10' CONTOURS
	PROPOSED CONTOUR
	SPOT ELEVATION
	EXISTING TREELINE
	PROPOSED TREELINE
	PROPOSED PAVING
	SOILS LINES AND TYPE
	PROPOSED MICRO BIORETENTION (M-6)
	NON-ROOFTOP DISCONNECTION (N-2)
	SPECIMEN TREE
	FLOODPLAIN ELEVATION
	15% TO 24.9% STEEP SLOPES
	25% AND GREATER STEEP SLOPES
	100 YEAR PUBLIC FLOODPLAIN, DRAINAGE AND UTILITY EASEMENT
	DRAINAGE AREA DIVIDE
	FOREST CONSERVATION EASEMENT (RETENTION)
	WETLAND AREA
	25' WETLAND BUFFER
	100 YEAR FLOODPLAIN LINE
	BORING (PERC) TEST HOLE
	STREAM BANK BUFFER



SOILS LEGEND			
SOIL	NAME	CLASS	K FACTOR
Co	Codonua and Hatboro silt loams, 0 to 3 percent slopes	C	0.37
Gb-B	Gladstone loam, 3 to 8 percent slopes	B	0.20
Gb-C	Gladstone loam, 8 to 15 percent slopes	B	0.20
Gm-A	Glenville silt loam, 0 to 3 percent slopes	C	0.37
Gm-B	Glenville silt loam, 3 to 8 percent slopes	C	0.37
McD	Manor loam, 15 to 25 percent slopes, very rocky	B	0.24
MfF	Manor-Brinklow complex, 25 to 65 percent slopes, very rocky	B	0.24

NOTES:
 * Hydric soils and/or contains hydric inclusions
 ** May contain hydric inclusions
 † Generally only within 100-year floodplain areas

NO.	REVISION	DATE	X

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10770 BALTIMORE NATIONAL PARK
 ELKTON CITY, MARYLAND 21828
 (410) 811 - 2255

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: 01/12/2014.
Anthony J. Smith 6/24/14
 Signature of Professional Engineer DATE



OWNER
 MR. BOB BUICE
 21400 NEW HAMPSHIRE AVE.
 BROOKVILLE, MARYLAND 20835-1805
 410-489-7900 ATTN: TIM FRAGA

DEVELOPER
 HERITAGE LAND DEVELOPMENT
 19950 NORTH AVENUE
 P.O. BOX 482
 LISBON, MARYLAND 21765
 410-489-7900

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Robert L. Linder 7/24/14
 Chief, Division of Land Development Date

John J. Linder 7-2-14
 Chief, Development Engineering Division Date

PROJECT	SECTION	PARCEL NO.
CATTAIL OVERLOOK LOTS 1 THRU 6	-	04
PLAT	BLOCK NO.	ZONE
5426-5429 & 21339-21344	20 & 21	RC-DEO
TAX/ZONE	ELEC. DIST.	CENSUS TR.
21	FOURTH	604002

ENVIRONMENTAL CONCEPT PLAN

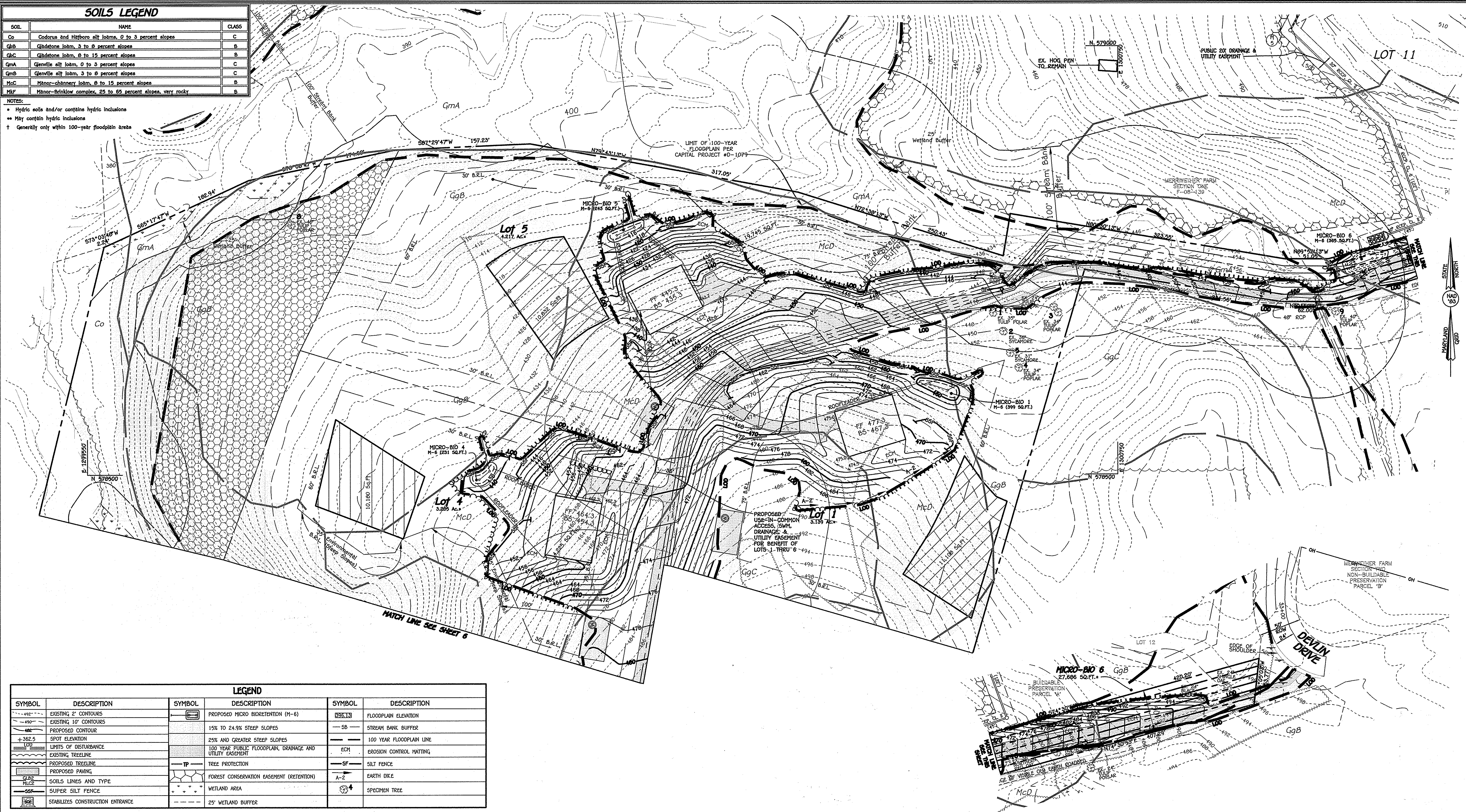
CATTAIL OVERLOOK
 LOTS 1 THRU 6
 (A Resubdivision Of Lot 2 Buice Property - Plat Nos. 5426 - 5429) And (A Resubdivision of Meriwether Farm Section One Non-Buildable Parcel 'E' Plat Nos. 21339 - 21344)
 ZONED RC-DEO
 TAX MAP No. 21 GRID No. 20 & 21 PARCEL No. 24 & 04
 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: JUNE, 2014
 SHEET 4 OF 8 **ECP-14-041**

K:\SDSKPROJ\30636 BUICE NAD 83\dwg\Cattail Overlook.Lots 1 thru 6.dwg, Sheet 4, 6/27/2014 4:42:53 PM, 1:1

SOILS LEGEND

SOIL	NAME	CLASS
Co	Codorus and Hylboro silt loams, 0 to 3 percent slopes	C
GgB	Gladstone loam, 3 to 8 percent slopes	B
GgC	Gladstone loam, 8 to 15 percent slopes	B
GmA	Glenville silt loam, 0 to 3 percent slopes	C
GmB	Glenville silt loam, 3 to 8 percent slopes	C
MuS	Manor-channery loam, 8 to 15 percent slopes	B
MuF	Manor-Brinklow complex, 25 to 65 percent slopes, very rocky	B

- NOTES:
- Hydric soils and/or contains hydric inclusions
 - May contain hydric inclusions
 - † Generally only within 100-year floodplain areas



LEGEND					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
---492---	EXISTING 2' CONTOURS	[Symbol]	PROPOSED MICRO BIORETENTION (M-6)	[Symbol]	FLOODPLAIN ELEVATION
---490---	EXISTING 10' CONTOURS	[Symbol]	15% TO 24.9% STEEP SLOPES	[Symbol]	STREAM BANK BUFFER
---488---	PROPOSED CONTOUR	[Symbol]	25% AND GREATER STEEP SLOPES	[Symbol]	100 YEAR FLOODPLAIN LINE
+362.5	SPOT ELEVATION	[Symbol]	100 YEAR PUBLIC FLOODPLAIN, DRAINAGE AND UTILITY EASEMENT	[Symbol]	EROSION CONTROL MATTING
[Symbol]	LIMITS OF DISTURBANCE	[Symbol]	TP TREE PROTECTION	[Symbol]	SILT FENCE
[Symbol]	EXISTING TREELINE	[Symbol]	FP FOREST CONSERVATION EASEMENT (RETENTION)	[Symbol]	EARTH DIKE
[Symbol]	PROPOSED TREELINE	[Symbol]	WETLAND AREA	[Symbol]	SPECIMEN TREE
[Symbol]	PROPOSED PAVING	[Symbol]	25' WETLAND BUFFER		
[Symbol]	SOILS LINES AND TYPE				
[Symbol]	SUPER SILT FENCE				
[Symbol]	STABILIZES CONSTRUCTION ENTRANCE				

NO.	REVISION	DATE	X

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: 01/12/2014.

Stephen J. Lutz 6/29/14
Signature of Professional Engineer DATE

OWNER

MR. BOB BUICE
21400 NEW HAMPSHIRE AVE.
BROOKVILLE, MARYLAND 20833-1805
410-489-7900 ATTN: TIM FLACA

DEVELOPER

HERITAGE LAND DEVELOPMENT
15950 NORTH AVENUE
P.O. BOX 482
LISBON, MARYLAND 21765
410-489-7900

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Kevin J. ... 7/23/14
Chief, Division of Land Development Date

Phil ... 7.8.14
Chief, Development Engineering Division Date

PROJECT	SECTION	PARCEL NO.
CATTAIL OVERLOOK LOTS 1 THRU 6	-	84
PLAT	BLOCK NO.	ZONE
5428-5429 & 21339-21344	20 & 21	RC-DEO
TAX/ZONE	ELEC. DIST.	CENSUS TR.
21	FOURTH	604002

PRELIMINARY SEDIMENT AND EROSION CONTROL PLAN

CATTAIL OVERLOOK
LOTS 1 THRU 6
(A Resubdivision Of Lot 2 Buice Property - Plat Nos. 5426 - 5429) And (A Resubdivision of Meriwether Farm Section One Non-Buildable Parcel 'E' Plat Nos. 21339 - 21344)

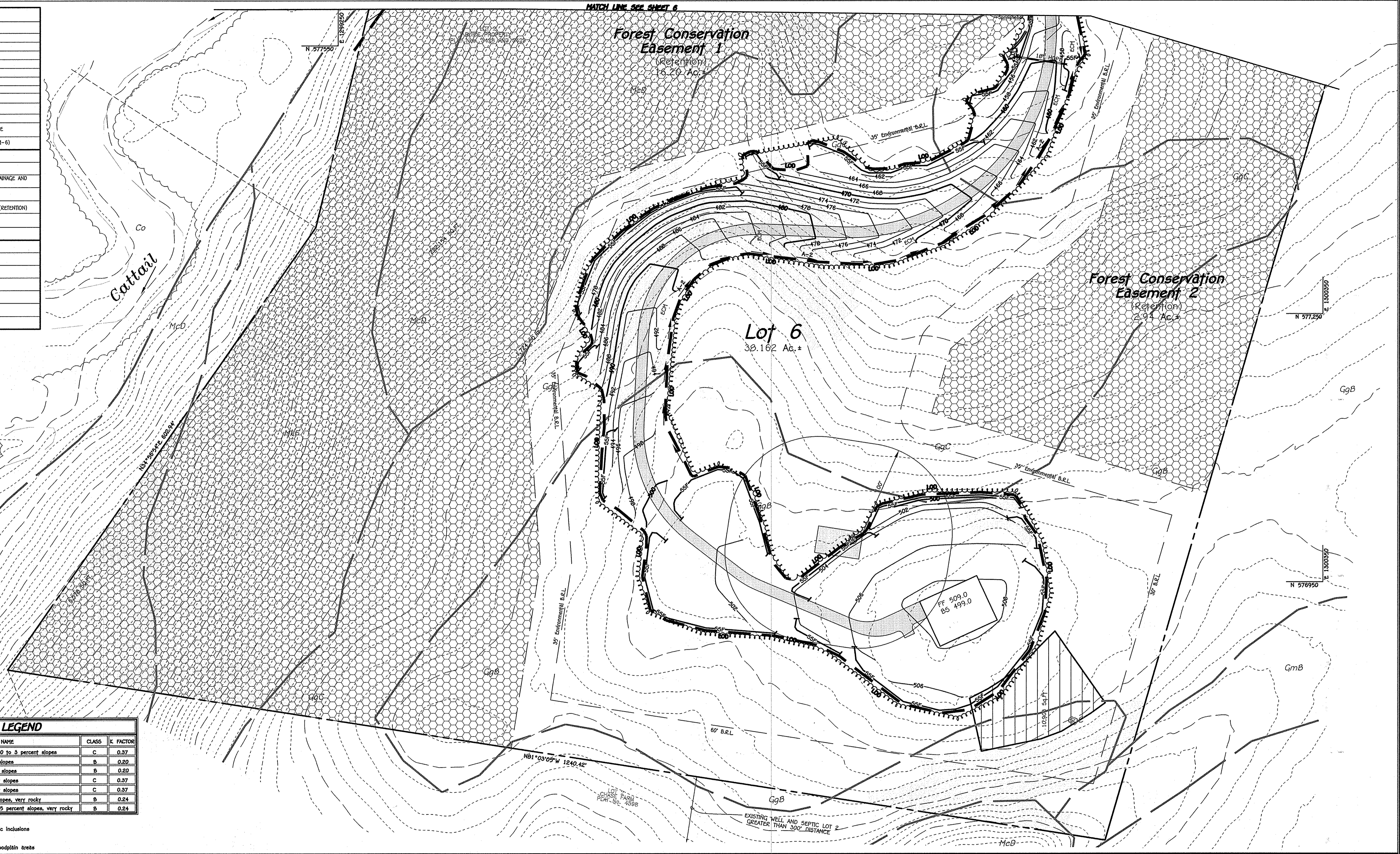
ZONED RC-DEO
TAX MAP No. 21 GRID No. 20 & 21 PARCEL No. 24 & 84
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: JUNE, 2014
SHEET 5 OF 8 **ECP-14-041**

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL OFFICE: 10725 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-2895

LEGEND	
SYMBOL	DESCRIPTION
	EXISTING 2' CONTOURS
	EXISTING 10' CONTOURS
	PROPOSED CONTOUR
	SPOT ELEVATION
	LIMITS OF DISTURBANCE
	EXISTING TREELINE
	PROPOSED TREELINE
	PROPOSED PAVING
	SOILS LINES AND TYPE
	SUPER SILT FENCE
	STABILIZES CONSTRUCTION ENTRANCE
	PROPOSED MICRO BIORETENTION (M-6)
	15% TO 24.9% STEEP SLOPES
	25% AND GREATER STEEP SLOPES
	100 YEAR PUBLIC FLOODPLAIN, DRAINAGE AND UTILITY EASEMENT
	TREE PROTECTION
	FOREST CONSERVATION EASEMENT (RETENTION)
	WETLAND AREA
	25' WETLAND BUFFER
	FLOODPLAIN ELEVATION
	STREAM BANK BUFFER
	100 YEAR FLOODPLAIN LINE
	EROSION CONTROL MATTING
	SILT FENCE
	EARTH DIKE
	SPECIMEN TREE

SOILS LEGEND			
SOIL	NAME	CLASS	K FACTOR
Co	Codorus and Hayboro silt loams, 0 to 3 percent slopes	C	0.37
GbB	Gladstone loam, 3 to 8 percent slopes	B	0.20
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GmA	Glenville silt loam, 0 to 3 percent slopes	C	0.37
GmB	Glenville silt loam, 3 to 8 percent slopes	C	0.37
McD	Minor loam, 15 to 25 percent slopes, very rocky	B	0.24
MLF	Minor-Brinklow complex, 25 to 65 percent slopes, very rocky	B	0.24

NOTES:
 * Hydric soils and/or contains hydric inclusions
 ** May contain hydric inclusions
 † Generally only within 100-year floodplain areas



NO.	REVISION	DATE	X

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10275 BALDWIN NATIONAL PIKE
 ELIZABETH CITY, MARYLAND 21828
 (410) 461-2255

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38386, EXPIRATION DATE: 01/12/2014.
Signature of Professional Engineer Date: 6/27/14



OWNER
 MR. BOB BUICE
 21400 NEW HAMPSHIRE AVE.
 BROOKVILLE, MARYLAND 20835-1805
 410-489-7900 ATTN: TIM PEAGA

DEVELOPER
 HERITAGE LAND DEVELOPMENT
 15950 NORTH AVENUE
 P.O. BOX 482
 LISBON, MARYLAND 21765
 410-469-7900

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Signature Date: 7/02/14
 Chief, Division of Land Development

Signature Date: 7.9.14
 Chief, Development Engineering Division

PROJECT	SECTION	PARCEL NO.
CATTAIL OVERLOOK LOTS 1 THRU 6	-	04
PLAT	BLOCK NO.	ZONE
5426-5429 & 21339-21344	20 & 21	RC-DEO
TAX/ZONE	ELEC. DIST.	CENSUS TR.
21	FOURTH	604002

PRELIMINARY SEDIMENT AND EROSION CONTROL PLAN

CATTAIL OVERLOOK
 LOTS 1 THRU 6
 (A Resubdivision Of Lot 2 Buice Property - Plat Nos. 5426 - 5429) And (A Resubdivision of Meriwether Farm Section One Non-Buildable Parcel 'E' Plat Nos. 21339 - 21344)
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 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: JUNE, 2014
 SHEET 7 OF 8 **ECP-14-041**

