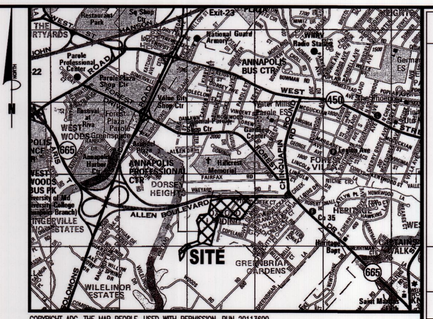
FOREST STAND DELINEATION

SITE NOTES:

1. GROSS TRACT AREA: 23.382 ACRES (1,018,508 S.F.)
2. FSD STUDY AREA: 13.04 ACRES (568,022.40 S.F.)
3. THERE IS NO 100-YEAR FLOOD PLAIN WITHIN THE FSD STUDY AREA.
4. THERE IS A 100-YEAR FLOOD PLAIN IN THE FOREST CONSERVATION AREA (FEMA FIRM MAP PANEL NO. 24003C0233E), AT THE SOUTHERN TIP OF THE GROSS AREA.
5. NON-TIDAL WETLANDS ARE NOT PRESENT WITHIN THE FSD STUDY AREA.
6. NON-TIDAL WETLAND BUFFERS ENCROACH ON TO THE FSD THE STUDY AREA.
7. EPHEMERAL AND INTERMITTENT STREAMS AND BUFFERS EXIST ON-SITE AND IN THE STUDY AREA,
8. THE EXISTING FOREST CONSERVATION EASEMENT IS 11.643 ACRES, DEED RECORDED AS PLAT NO. 15223-15225 IN PLAT BOOK 293, PAGE 47 TO 49 ON MAY 2007. LIBER 16487 FOLIO 504.
9. TOPO AND BOUNDARY PROVIDED BY BOWMAN CONSULTING, JAN. 2007.
10. WETLAND INFORMATION PROVIDED BY BOWMAN CONSULTING IN 2007 AND VERIFIED BY ENVIROPROJECTS, LLC IN 2014.
11. SPECIMEN TREES AND FOREST STANDS IDENTIFIED BY ENVIROPROJECTS, LLC JANUARY 2014 AND SURVEYED BY DEWBERRY IN 2014.
12. THERE ARE 15-25% SLOPES AND 25% SLOPES OR GREATER IN THE FSD STUDY AREA.
13. THERE ARE 12.3 ACRES OF EXISTING FOREST IN THE FSD STUDY AREA.
14. A PREVIOUS FSD FOR THE ENTIRE GROSS AREA WAS PREPARED BY BOWMAN CONSULTING, 2007.
15. FOREST STAND NARRATIVE IS LOCATED ON FSD-3.
16. THE SUBJECT PROPERTY IS ZONED R1, R1-A, AND R1-B. CONTIGUOUS ZONING CLASSES INCLUDE R1-A, R2, AND R3.

LEGEND

- FORESTED WETLANDS
- EXISTING FOREST CONSERVATION EASEMENT
- WL — WETLAND DELINEATION LINE
- 100' WETLAND/STREAM BUFFER
- FP — 100-YEAR FLOODPLAIN
- A — FOREST STAND
- T-1 — SIGNIFICANT TREE WITH CRITICAL ROOT ZONE
- EPHEMERAL STREAM
- INTERMITTENT STREAM
- FSD STUDY AREA
- FSD SAMPLE POINT
- 15-25% SLOPE
- 25% SLOPE OR GREATER
- HIGHLY ERODIBLE SOILS



VICINITY MAP

SCALE: 1" = 2,000'

FOR SOIL STRUCTURAL QUALITIES, REFER TO : "SUBSURFACE EXPLORATION AND PRELIMINARY GEOTECNICAL ENGINEERING REPORT" BY SOIL CONSULTANTS, INC. IN MANASSAS, VA., DATED APRIL 27, 2005.

ARIS T ALLEN, FOREST STAND DELINEATION PLAN NARRATIVE and TABLES
V. April 23, 2014

ATA Specimen Trees Table, see separate sheet
ATA Soil Series Table

Aris T Allen Site, Soil Series

Soil Series Map Unit- Hydric Rating - Anne Arundel County, Maryland			
Map unit symbol	Map unit name	Rating	K factor
AcB	Adelphia-Holmdel complex, 2 to 5 percent slopes	Partially Hydric	0.37
AeB	Annapolis loamy sand, 2 to 5 percent slopes	Not Hydric	0.20
AeC	Annapolis loamy sand, 5 to 10 percent slopes	Not Hydric	0.28
AsB	Annapolis fine sandy loam, 2 to 5 percent slopes	Not Hydric	0.28
AsC	Annapolis fine sandy loam, 5 to 10 percent slopes	Not Hydric	0.28
AsE	Annapolis fine sandy loam, 15 to 25 percent slopes	Partially Hydric	0.28
AuB	Annapolis-Urban land complex, 0 to 5 percent slopes	Not Hydric	0.28
AuD	Annapolis-Urban land complex, 5 to 15 percent slopes	Not Hydric	0.28
CnB	Colemantown-Urban land complex, 0 to 5 percent slopes	Partially Hydric	
CpB	Collington-Wist-Urban land complex, 0 to 5 percent slopes	Not Hydric	0.32
CRD	Collington and Annapolis soils, 10 to 15 percent slopes	Not Hydric	0.28
DnA	Dontonton fine sandy loam, 0 to 2 percent slopes	Partially Hydric	0.37
DuB	Dorsonton-Urban land complex, 0 to 5 percent slopes	Partially Hydric	0.32
UxB	Udorthents, loamy, sulfidic substratum, 0 to 5 percent slopes	Not Hydric	0.28
WBA	Widewater and Issue soils, 0 to 2 percent slopes, frequently flooded	Partially Hydric	

ARIS T ALLEN Forest Stand Delineation
BIG & SIGNIFICANT TREES and CRITICAL ROOT ZONE CALCULATOR
EnviroProjects, LLC ©
CRZ = RADIUS IN FEET WO#: 20130099
1/28/2014

Significant Tree Study

Label	Size "	Species	Common	CRZ	Condition	Stand
T100	32	*Liriodendron tulipifera*	Tulip Poplar	48	Good	A
T99	31	*Liriodendron tulipifera*	Tulip Poplar	47	Fair	A
T98	45	*Liriodendron tulipifera*	Tulip Poplar	68	Good	A
T97	26	*Liriodendron tulipifera*	Tulip Poplar	39	Good	A
T96	24	*Liriodendron tulipifera*	Tulip Poplar	36	Good	A
T95	26	*Liriodendron tulipifera*	Tulip Poplar	39	Fair	A
T94	37	*Prunus serotina*	Black Cherry	56	Poor	A
T93	42	*Robinia pseudoacacia*	Black Locust	63	Poor	A
T92	26	*Acer negundo*	Box Elder	39	Fair	A
T91	40	*Quercus alba*	White Oak	60	Fair	A
T90	44	*Quercus alba*	White Oak	66	Good	A
T89	33	*Acer rubrum*	Red Maple	50	Poor	A
T88	30	*Liriodendron tulipifera*	Tulip Poplar	45	Good	A
T87	24	*Liriodendron tulipifera*	Tulip Poplar	36	Good	A
T86	33	*Liriodendron tulipifera*	Tulip Poplar	50	Good	A
T85	44	*Quercus alba*	White Oak	66	Poor	A
T84	40	*Quercus phellos*	Willow Oak	60	Good	A
T83	35	*Quercus phellos*	Willow Oak	53	Good	A
T82	36	*Quercus phellos*	Willow Oak	54	Good	A
T81	39	*Quercus phellos*	Willow Oak	59	V. Good	A
T80	35	*Quercus alba*	White Oak	53	Good	A
T79	32	*Quercus alba*	White Oak	48	Good	A
T78	31	*Quercus phellos*	Willow Oak	47	Good	A
T77	25	*Liriodendron tulipifera*	Tulip Poplar	38	Good	A
T76	41	*Quercus alba*	White Oak	62	Good	A
T75	38	*Quercus alba*	White Oak	57	Good	A
T74	30	*Liriodendron tulipifera*	Tulip Poplar	45	Good	A
T73	30	*Liriodendron tulipifera*	Tulip Poplar	45	Good	A
T72	25	*Quercus alba*	White Oak	38	Fair	A
T71	38	*Quercus alba*	White Oak	57	Fair	A
T70	42	*Quercus alba*	White Oak	63	Poor	A
T69	48	*Quercus alba*	White Oak	72	Good	A
T68	26	*Prunus serotina*	Black Cherry	39	Fair	A
T67	30	*Liriodendron tulipifera*	Tulip Poplar	45	Good	A
T66	32	*Liriodendron tulipifera*	Tulip Poplar	48	Good	A
T65	28	*Prunus serotina*	Black Cherry	42	Fair	A
T64	25	*Prunus serotina*	Black Cherry	38	Poor	A

QUALIFIED PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON IS CORRECT AND THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF EXISTING STATE AND COUNTY FOREST CONSERVATION LEGISLATION.

5.30.14
DATE

McLAREN ENGINEERING GROUP
BY:LARISSA ERIN TORRES
REGISTERED LANDSCAPE ARCHITECT
MARYLAND REG. NO. 3357

EnviroProjects, LLC
Project-based Environmental Compliance Strategies

100' 0 100' 200' FEET
SCALE: 1" = 100'

THESE PLANS ARE BASED UPON PLANS TITLED 'ARIS ALLEN BOULEVARD, LLC MIXED RESIDENTIAL' CREATED BY BOWMAN CONSULTING, PORTIONS OF WHICH ARE USED HEREIN.

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NO.	DATE	REVISION	BY

McLaren ENGINEERING GROUP applied ingenuity
McLaren Technical Services, Inc.
601 East Pratt Street, Suite 302 Baltimore, Maryland 21202
T: (410) 243-9787 F: (410) 243-4868 www.mgmclaren.com

PROJECT
ARIS T. ALLEN BOULEVARD
RESIDENTIAL PLANNED DEVELOPMENT
PART 1 - LOTS 26 - 31, 47 & 48
6TH ELECTION DISTRICT
CITY OF ANNAPOLIS, MARYLAND
TAX MAP/GRID: 51E/8

STATE OF MARYLAND LICENSED LANDSCAPE ARCHITECT LARISSA ERIN TORRES

SHEET TITLE
GRADING PERMIT NO.: GRD 14 - 0006
OVERALL FOREST STAND DELINEATION PLAN

PROJECT NO.	130003.01
SCALE	AS SHOWN
DATE	5/30/2014
DRAWN BY	JDS/CLW
CHECKED BY	PVM/TJC
DRAWING NO.	FSD-1

60 OF 66 SHTS

FILE NAME: P:\Proj130\130003.01 Aris T. Allen Property\10_Dwgs\CADD\Working\NR-FSD & FCP\FSD.dwg PLOT TIME: Mon, 02 Jun 2014 - 2:16pm LAST SAVE: Mon, 02 Jun 2014 - 2:16pm BY: JSDaley