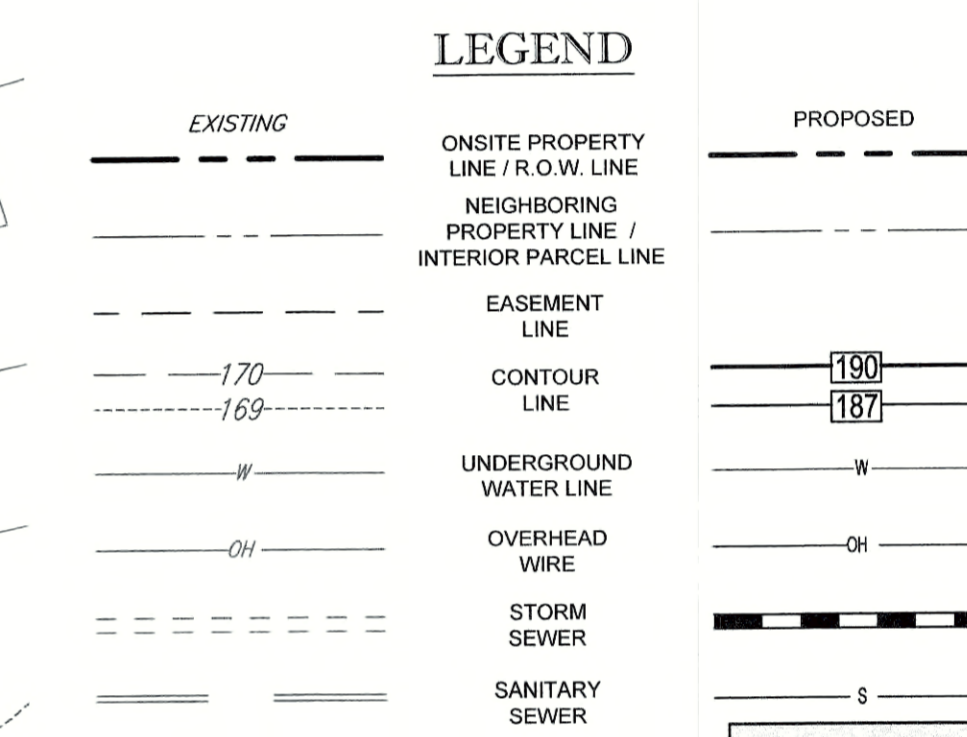


**LOCATION MAP**  
 COPYRIGHT ADC THE MAP PEOPLE  
 PERMIT USE NO. 20602155-5  
 SCALE: 1"=1000'



**BOHLER ENGINEERING**  
 SITE CIVIL AND CONSULTING ENGINEERING  
 LANDSCAPE ARCHITECTURE  
 LAND SURVEYING  
 PROGRAM MANAGEMENT  
 SUSTAINABLE DESIGN

LANDSCAPE ARCHITECTURE  
 TRANSPORTATION SERVICES  
 CENTRAL ARIZONA  
 RALEIGH, NC  
 SOUTHEASTERN PA  
 NEW HAVEN, CT  
 TAMPA, FL  
 BALTIMORE, MD  
 SOUTHERN MARYLAND  
 NEW JERSEY

**REVISIONS**

REV	DATE	COMMENT	BY
1	08/17/17	REVISED PER COUNTY COMMENTS	PAB

**NOT APPROVED FOR CONSTRUCTION**

THE FOLLOWING STATES REQUIRE NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO EXCAVATE THE EARTH'S SURFACE ANYWHERE IN THE STATE IN VIRGINIA, MARYLAND, THE DISTRICT OF COLUMBIA, AND DELAWARE CALL: 811

(WV 1-800-245-4849) (PA 1-800-342-1776) (DC 1-800-257-7777) (VA 1-800-552-7001) (MD 1-800-257-7777) (DE 1-800-282-8659)

**DEVELOPMENT PLAN**  
 PAI #09-0852  
 FOR

**2825 CUB HILL ROAD**

LOCATION OF SITE  
 2825 CUB HILL ROAD  
 BALTIMORE COUNTY  
 MARYLAND 21234  
 ELECTION DISTRICT: 9  
 COUNCILMANIC: 3

**BOHLER ENGINEERING**

901 DULANEY VALLEY ROAD, SUITE 801  
 TOWSON, MARYLAND 21284  
 Phone: (410) 821-7900  
 Fax: (410) 821-7987  
 MD@BohlerEng.com

**R. D. CAPALONGO**  
 REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT  
 9/26/17

**RESERVOIR HILL COURT PROPERTY OWNER INFORMATION**

LOT NUMBER	APN#	MAP, GRID, PARCEL	OWNER NAME(S)	LIBER, FOLIO	USE
1	24-00002148	62, 22, 165	MIGUEL & SILVIA MALISZEWSKI	0075, 0048	SINGLE FAMILY DWELLING
2	24-00002149	62, 22, 165	KUMSIL & YONG KU KIM	0075, 0048	SINGLE FAMILY DWELLING
3	24-00002150	62, 22, 165	SUN JAE HAM	0075, 0048	SINGLE FAMILY DWELLING
4	24-00002151	6, 22, 165	ANGELA & FARID ZREITEM	0075, 0048	SINGLE FAMILY DWELLING
5	24-00002152	62, 22, 165	BESSIE & DEBORAH HALL	0075, 0048	SINGLE FAMILY DWELLING
6	24-00002153	62, 22, 165	SHALA & ALIEREZA BARFAR	0075, 0048	SINGLE FAMILY DWELLING
7	24-00002157	62, 22, 165	BRIAN & SHANNON KOCUR	0075, 0048	SINGLE FAMILY DWELLING

**PROPOSED RETAINING WALL HEIGHT CHART**

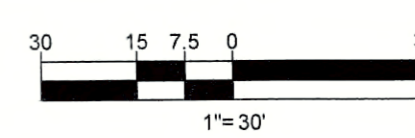
STATION	TOP OF WALL	BOTTOM OF WALL
10+00	431.5	430.5
10+45	425.7	425.5

LIMIT OF DISTURBANCE = 3.03 AC.

**OUTFALL STATEMENT**

THE SITE OUTFALL IS A PROPOSED STORM DRAIN SYSTEM THAT IS DESIGN TO CONNECT TO AN EXISTING 27" STORM DRAIN SYSTEM LOCATED 300'-EAST OF THE SITE BETWEEN CUB HILL ROAD AND TIPPERARY ROAD. AN ANALYSIS OF THE EXISTING 27" STORM DRAIN INDICATES A TOTAL DRAINAGE AREA OF 0.88 ACRES, CA OF 5.05, INTENSITY OF 6.70, FLOW OF 33.83 CFS, AND THE VELOCITY OF 8.51 FPS. THE EXISTING SITE OUTFALL IS STABLE, AND THE PROPOSED CONNECTION FROM THE SITE AREA (LOD) WILL NOT IMPACT THE EXISTING 27" STORM DRAIN SYSTEM OR CAUSE ANY ISSUE DOWNSTREAM BASED ON THE ULTIMATE FLOWS IN THAT IS DESIGN TO THE SYSTEM. THE EXISTING 27" STORM DRAIN IS ADEQUATE TO CONVEY THE SITE PEAK DISCHARGE IN A NON-EROSIVE MANNER.

PROFESSIONAL CERTIFICATION  
 I, ROBERT D. CAPALONGO, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.  
 LICENSE NO. 3037 EXPIRATION DATE: 4/14/18



SHEET TITLE:  
**DEVELOPMENT PLAN**

SHEET NUMBER:  
**3 of 5**