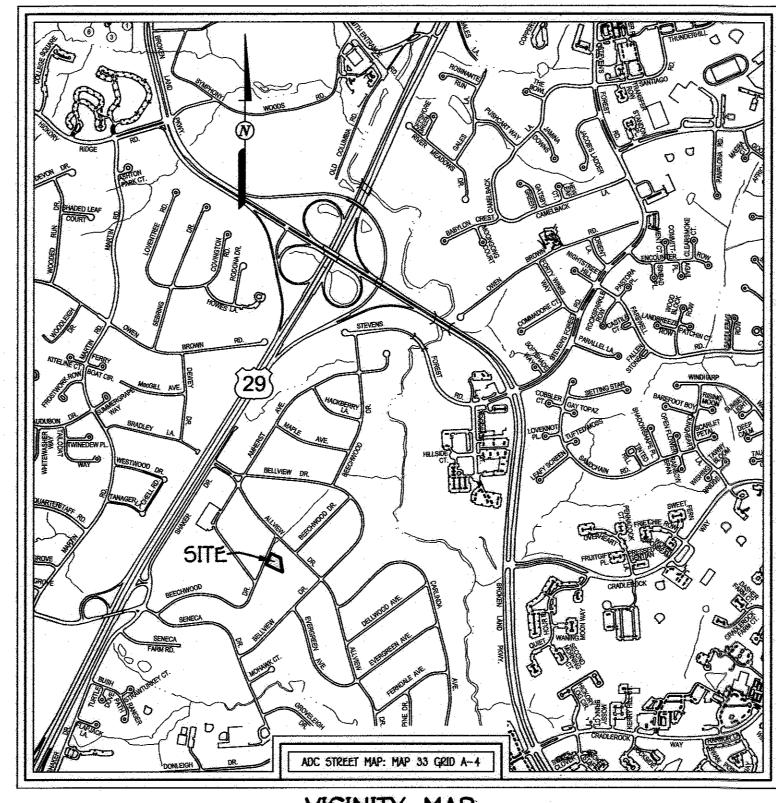


ENVIRONMENTAL CONCEPT PLAN ALLVIEW ESTATES LOT 17 BLOCK G

TAX MAP No. 36 GRID No. 14 PARCEL NO. 237 HOWARD COUNTY, MARYLAND SIXTH ELECTION DISTRICT



VICINITY MAP SCALE: 1" = 1200'

BENCHMARK INFORMATION	
B.M.#1 - HOWARD COUNTY CONTROL STATION #0070 - HORIZONTAL - NAD '83) N 556041.785 E 1,350,374.704	
ELEVATION = $406.331 - VERTICAL - (NAVD '88)$	
B.M.#2 - HOWARD COUNTY CONTROL STATION #360F - HORIZONTAL - (NAD '03) N 550,122.360	· · ·
E 1,349,925.206 ELEVATION = 392.340 - VERTICAL - (NAVD '80)	

OPERATION & MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DRY WELLS (M-5)

A. THE OWNER SHALL INSPECT THE MONITORING WELLS AND STRUCTURES ON A QUARTERLY BASIS AND

AFTER EVERY HEAVY STORM EVENT. B. THE OWNER SHALL RECORD THE WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS OVER A PERIOD OF SEVERAL DAYS TO ENSURE TRENCH DRAINAGE. C. THE OWNER SHALL MAINTAIN A LOG BOOK TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.

D. WHEN THE FACILITY BECOMES CLOGGED SO THAT IT DOES NOT DRAIN DOWN WITHIN A SEVENTY-TWO (72) HOUR TIME PERIOD, CORRECTIVE ACTION SHALL BE TAKEN. E. THE MAINTENANCE LOG BOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE

COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA. F. ONCE THE PERFORMANCE CHARACTERISTICS OF THE INFILTRATION FACILITY HAVE BEEN VERIFIED. THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS UNLESS THE PERFORMANCE DATA INDICATES THAT A MORE FREQUENT SCHEDULE IS REQUIRED.

	APPROVED: DEPARTMENT OF P	PLANNING AND ZONING	-		TITLE SHEET
	Chief, Division of Land Develo	ph. lopment JS	<u></u>	<u>1-12-17</u> Dațe	ALLVIEW ESTATES, SECTION 3, BLOCK G, LOT 17
PROFESSIONAL CERTIFICATION TIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED TAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE STATE OF MARYLAND, LICENSE NO. 38386, EXPIRATION 2018.	Chief, Development Engineering PROJECT ALLIVIEW ESTATES SECTION 3, BLOCK G			2.2.1.17 Date PARCEL NO. 237	6505 BEECHWOOD DRIVE ZONED R-20 TAX MAP No. 36 GRID No. 14 PARCEL No. 237 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: MARCH, 2017
of Professional Engineer DATE	PLAT BLOCK NO. ZC PB 5, PG 96 14 R	ZONE TAX/ZONE R-20 36	elec. Dist. Sixth	CEN5U5 TR. 606701	SHEET 1 OF 2 ECP-17-030

	LE	Gend	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
492	EXISTING 2' CONTOURS	-182	PROPOSED CONTOUR
~ - 490	EXISTING 10' CONTOURS	+ 362.5	SPOT ELEVATION
GfB GfC	SOILS LINES AND TYPE	1.00	LIMITS OF DISTURBANCE
$\sim \sim \sim \sim$	existing treeline	· · · · · · · · · · · · · · · · · · ·	PROPOSED TREELINE
— x — - x —	EXISTING FENCE LINE	SF	SILT FENCE
	PROPOSED PAVING	ECM	erosion control matting
	drainage area divide		SUPER SILT FENCE
		E	STABILIZES CONSTRUCTION ENTRANCE

GENERAL NOTES

- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 110-313-1280 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL NOTIFY (MISS UTILITY) AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION
- BOUNDARY SHOWN HEREON IS BASED ON FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED BY FISHER, COLLINS & CARTER
- INC., DATED DECEMBER, 2016. TOPOGRAPHY SHOWN HEREON IS BASED ON HOWARD COUNTY GIS TOPOGRAPHY AT 2' CONTOUR INTERVAL
- RUN BY FISHER, COLLINS & CARTER, INC. DATED NOVEMBER, 2016. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 0070 AND 36DF WERE USED FOR TI
- PREVIOUS DPZ FILE NUMBERS: PLAT BOOK 5 FOLIO 96.
- STORM WATER MANAGEMENT IS IN ACCORDANCE WITH THE M.D.E. STORM WATER DESIGN MANUAL, VOLUMES I & II, REVISED 2009 NON-STRUCTURAL PRACTICES IN ACCORDANCE WITH CHAPTER 5 ARE BEING UTILIZED. 8. THIS PROPERTY IS LOCATED INSIDE THE METROPOLITAN DISTRICT. LOT IS TO BE SERVED BY PUBLIC WATER CONTRACT
- AND BY PUBLIC SEWER CONTRACT ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE
- 9. ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
 10. THE SUBJECT PROPERTY IS ZONED R-20 (PER DATE 10/06/2013 COMPREHENSIVE ZONING PLAN).
 11. NO 100 YEAR FLOODPLAIN, WETLANDS, STREAM(S) AND/OR THEIR BUFFERS, NOR STEEP SLOPES EXIST ON-SITE.
 12. NO WETLANDS EXIST ON-SITE. SEE ENVIRONMENTAL FINDINGS LETTER PREPARED BY ECO-SCIENCE, INC. DATED DECEMBER 2016.
 13. LOT IS EXEMPT FROM FOREST CONSERVATION REQUIREMENTS SINCE IT IS A SINGLE LOT WITH A TOTAL AREA LESS THAN 40,000 SF.
 14. SOIL BORINGS WILL BE REQUIRED FOR THE PROPOSED STORMWATER MANAGEMENT DEVICES.
 15. APPROVAL OF THIS ECP DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED SUBDIVISION PLAN/PLAT AND/OR
- SITE DEVELOPMENT PLAN AND/OR RED-LINE REVISION PLAN. REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY ZONING REGULATIONS SHALL OCCUR AT THE SUBDIVISION PLAN/PLAT AND/OR SITE DEVELOPMENT PLAN STAGES AND/OR RED-LINE REVISION PROCESS. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED REVIEW COMMENTS (INCLUDING COMMENTS THAT MAY ALTER THE OVERALL SITE DESIGN) AS THIS PROJECT PROGRESSES THROUGH THE PLAN REVIEW PROCESS. 16. NO STRUCTURES EXIST ON THIS PROPERTY.
- 17. PROPERTY LOCATED ON HOWARD COUNTY SOIL SURVEY MAP #24.

DESIGN NARRATIVE

This report will demonstrate how the criteria set forth in the Maryland Stormwater Design Manual, Volumes I and II (effective October 2000, revised May 2009) will be satisfied on this project. The goal of creating hydrology similar to that of "Woods in Good Condition" will be accomplished through the use of the practices contained within Chapter 5 of said manual. The achievement of this goal will remove the requirement of providing Channel Protection Volume.

General Site Conditions:

6505 Beechwood Drive is zoned R-20 and is located on Tax Map 361, Parcel No.237, Lot 17 of the Howard County, Maryland Tax Map Database System. The property is recorded as platbook 5, page 96. The site a vacant lot (not forested) with some individual trees. Lot is exempt from Forest Conservation requirements since it is a single lot less than 40,000 square feet in size. The proposed house will be served by public water and sewer. The runoff from the lot is mostly from south to north to the left side of the lot. Drywells (M-5) will be utilized to treat rooffop runoff. Per the 2004 Web Soil Survey, soils on-site consist of "GbC" Gladstone loam and "GfB", Gladstone - Urban land complex, type A soil.

Natural Resource Protection: Environmentally sensitive features such as wetlands, streams, forests, their buffers, steep slopes, or floodplains do not exist on-site.

II. Maintenance of Natural Flow Patterns: Nature flow patterns will be maintained. Existing and proposed runoff flows from south to north on-site. The neighboring house to the south acts as a high point for runoff.

III. <u>Reduction of impervious areas through better site design. alternative surfaces and Nonstructural Practices</u> A single driveway is proposed to provide access to the proposed house. Due to the steepness of the proposed driveway, and the width of road right of way, it isn't possible to provide stormwater management for the proposed driveway that meets the maximum slope requirement. Drywells treating rooftop runoff have been oversized to overcompensate for the driveway area not being treated.

N. Integration of Erosion and Sediment Controls into Stormwater Strategy: Silt Fence and Super Silt Fence will be utilized to provide erosion and sediment control.

V. Implementation of ESD Planning Techniques and practices to the Maximum Extent Practicable (MEP) The full required ESD volume is being provided.

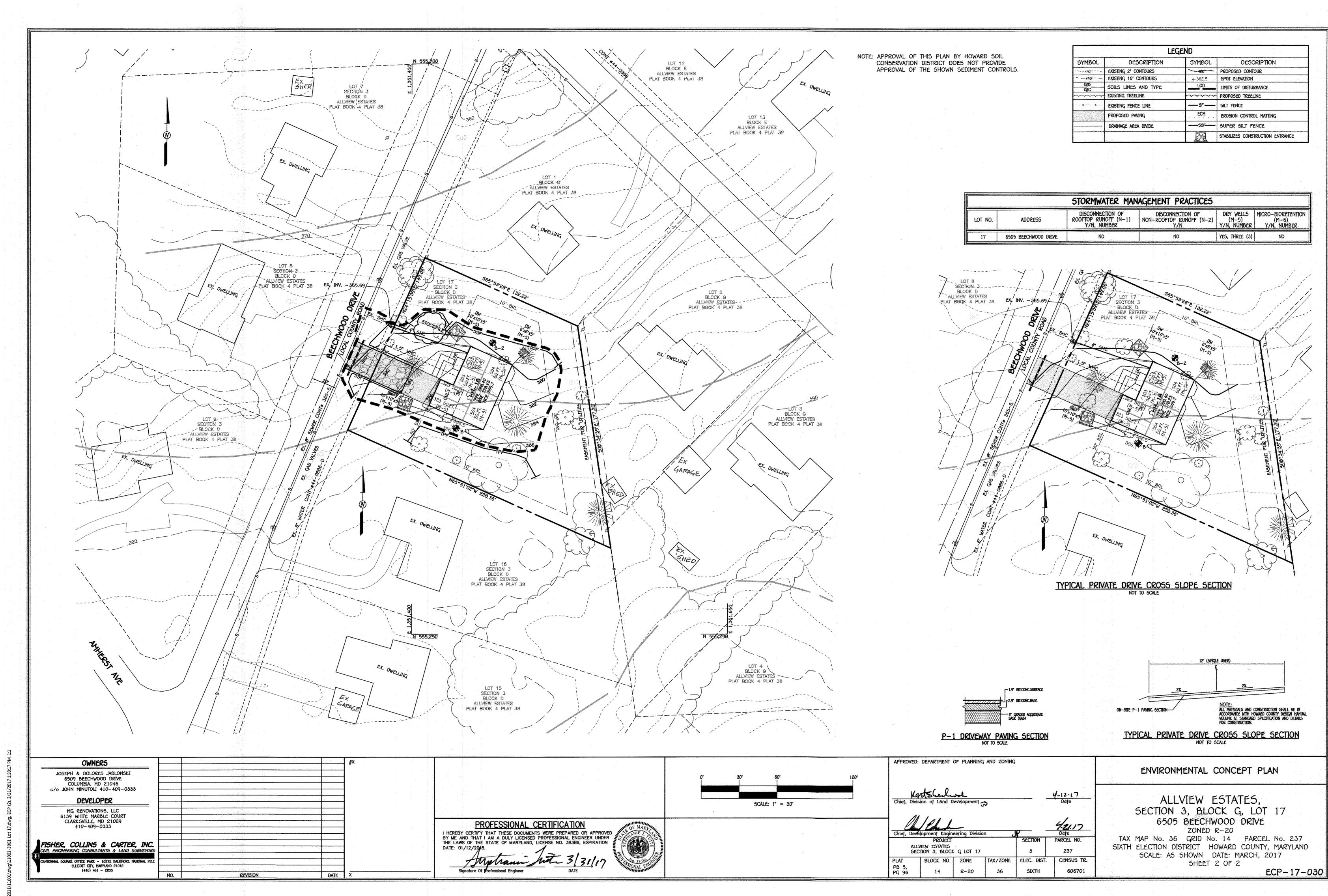
VI. <u>Request for a Design Manual Waiver:</u>

No waivers are required.

SITE ANALYSIS DATA CHART

TOTAL AREA OF THIS SUBMISSION = 26,885 SQ.FT. OR 0.62 AC. +. LIMIT OF DISTURBED AREA = 12,900 5Q.FT. OR 0.30 Ac.+

- PRESENT ZONING DESIGNATION = R-20(PER 10/06/2013 COMPREHENSIVE ZONING PLAN)
- PROPOSED USE: RESIDENTIAL PREVIOUS HOWARD COUNTY FILES: PLAT BOOK 5 FOLIO 96
- TOTAL AREA OF FLOODPLAIN LOCATED ON-SITE = 0.00 AC
- TOTAL AREA OF SLOPES IN EXCESS OF 15% = 0.00 AC TOTAL AREA OF WETLANDS (INCLUDING BUFFER) = 0.00 AC.
- TOTAL AREA OF STREAM (INCLUDING BUFFER) = 0.00 AC. TOTAL AREA OF EXISTING FOREST = 0.00 AC
- TOTAL GREEN OPEN AREA = 0.00 AC+ TOTAL IMPERVIOUS AREA = 0.00 AC+
- TOTAL AREA OF ERODIBLE SOILS = 0.00 AC. P. TOTAL AREA OF ROAD DEDICATION = 0.00 AC.



LEGEND						
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION			
492	EXISTING 2' CONTOURS	-182-	PROPOSED CONTOUR			
490	EXISTING 10' CONTOURS	+ 362.5	SPOT ELEVATION			
Gf8 GfC	SOILS LINES AND TYPE	D TYPE LOD LIMITS OF DISTURBANCE				
~~~~~	EXISTING TREELINE		PROPOSED TREELINE			
<u> </u>	EXISTING FENCE LINE	SF	SILT FENCE			
	PROPOSED PAVING	ECM	EROSION CONTROL MATTING			
	DRAINAGE AREA DIVIDE		SUPER SILT FENCE			
			STABILIZES CONSTRUCTION ENTRANCE			

		STORMWATER MAN	AGEMENT PRACTICES		
LOT NO.	ADDRE55	DISCONNECTION OF ROOFTOP RUNOFF (N-1) Y/N, NUMBER	DISCONNECTION OF NON-ROOFTOP RUNOFF (N-2) Y/N	DRY WELLS (M-5) Y/N, NUMBER	MICRO-BIORETENTION (M-6) Y/N, NUMBER
17	6505 BEECHWOOD DRIVE	NO	NO	YES, THREE (3)	NO