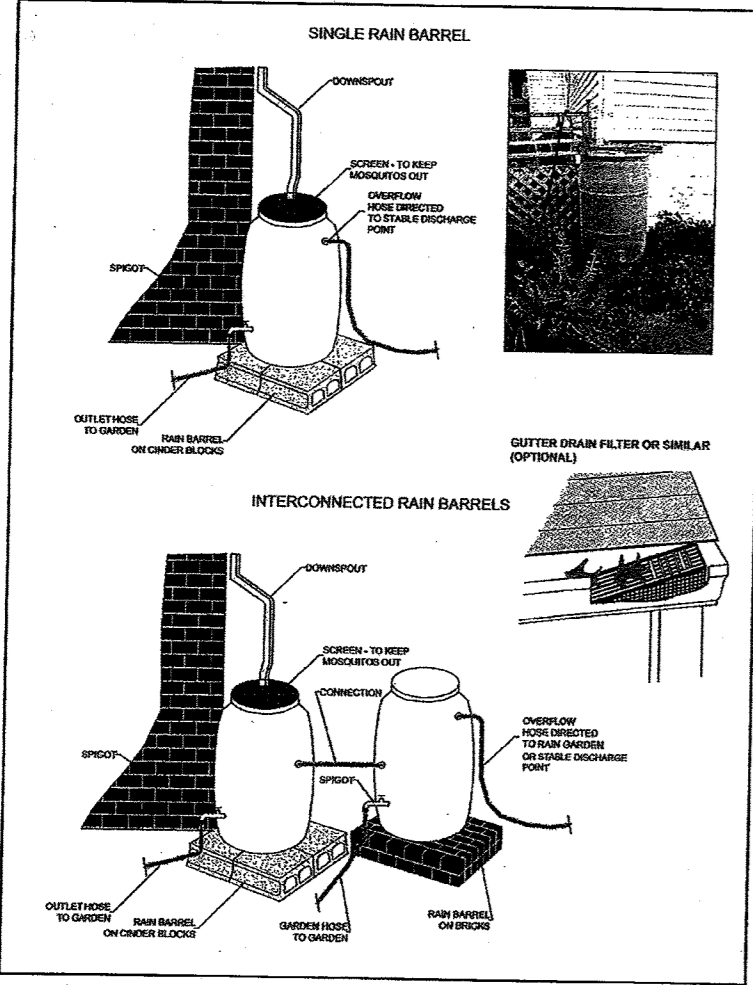
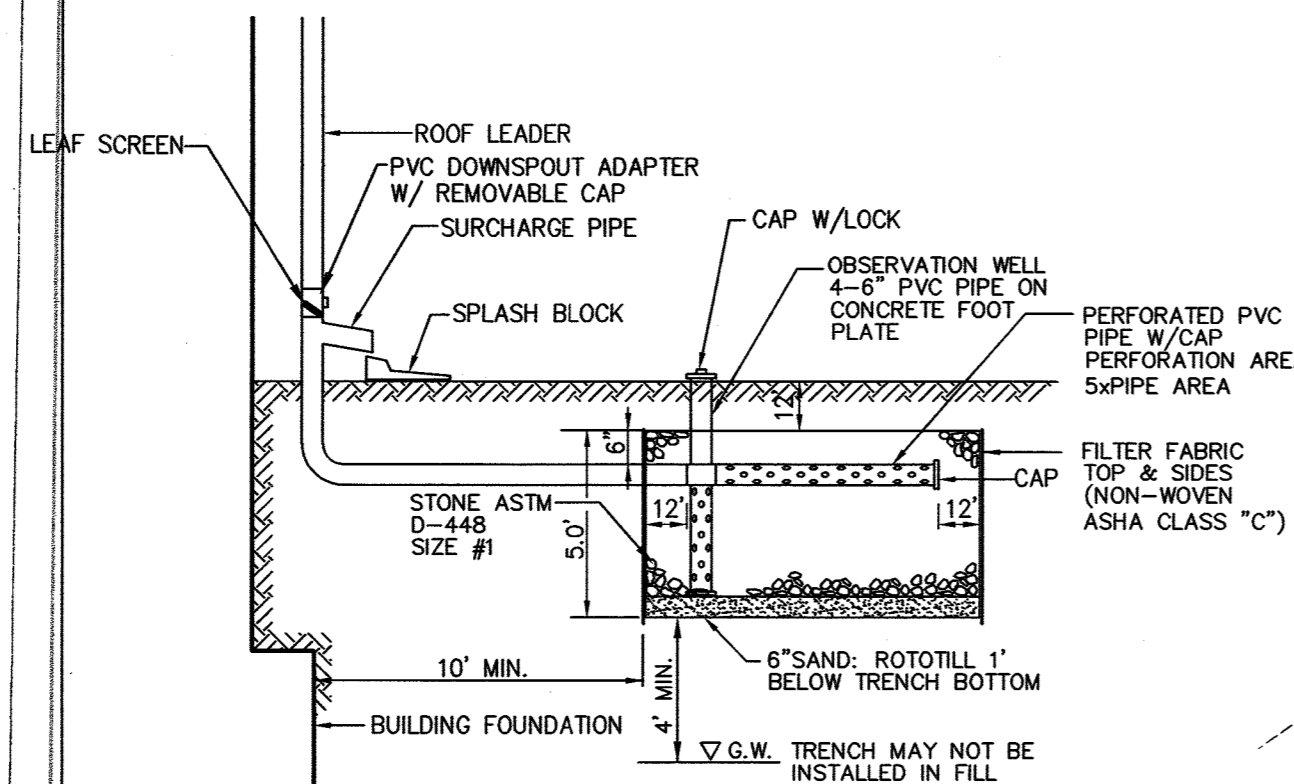


Figure 5.8 Rain Barrels



Supp. 1 5.74

SYMBOL	RATING	NAME	K FACTOR	SOIL MAP #	COMMENTS
UcB	(D)	URBAN LAND-CHILLUM BELTSVILLE COMPLEX, 0-5% SLOPES.	0.43	20	HIGHLY ERODIBLE



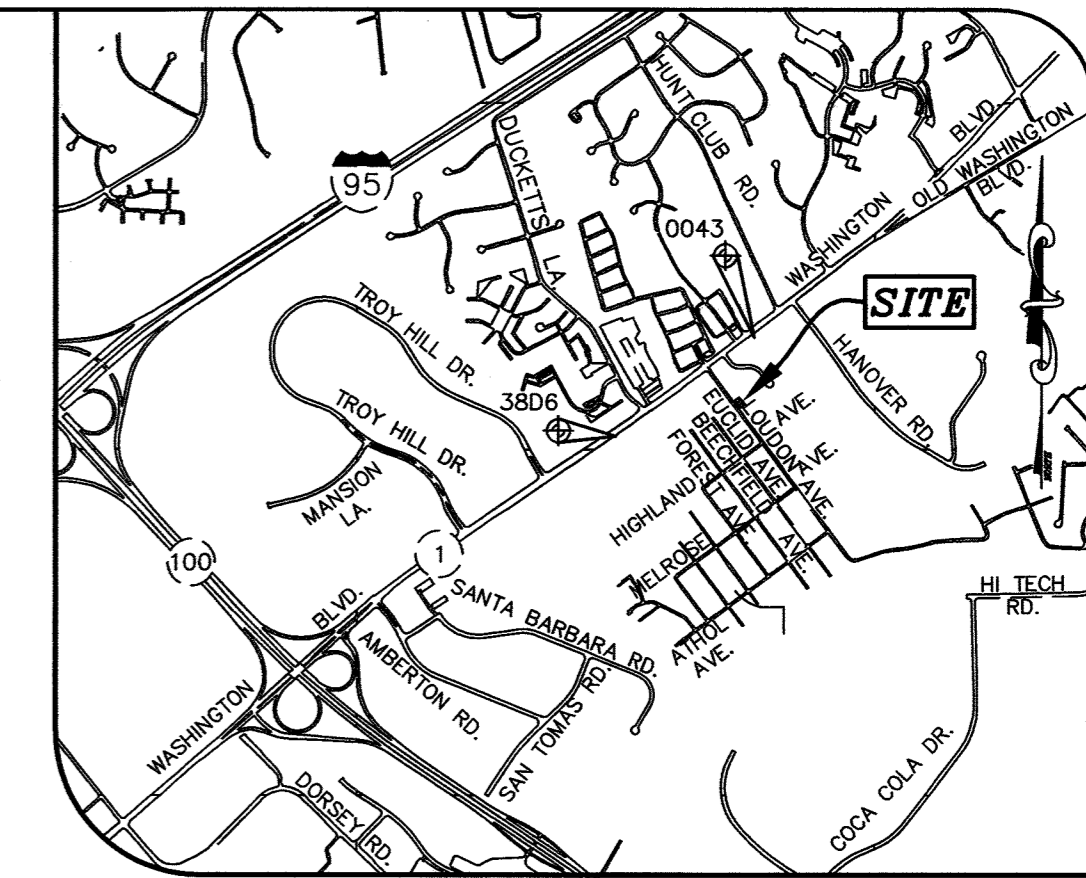
DRYWELL TYP. DETAIL

NTS

SWM PRACTICES SCHEDULE

AREA	PROPOSED PRACTICES	REQUIRED ESDv	PROVIDED ESDv
LOT 1285	M-1, RAIN BARREL-200 GAL PER BARREL, 8 BARRELS M-5, DRYWELL	293.0 C.F.	293.6 C.F.
LOT 1286	M-1, RAIN BARREL-200 GAL PER BARREL, 8 BARRELS M-5, DRYWELL	293.0 C.F.	293.6 C.F.

THERE ARE A TOTAL OF 2 DRYWELLS (M-5) AND 16 RAIN BARRELS (M-1) ON SITE.



VICINITY MAP  
SCALE: 1"=2000'  
ADC MAP: 35 C-4

NOTES:

- SITE ANALYSIS DATA:**  
LOCATION: TAX MAP: 38 GRID: 13 PARCEL: 873  
STREET ADDRESS: 6345 LOUDON AVE. ELK RIDGE, MD. 21075  
ELECTION DISTRICT: FIRST  
ZONING: R-12  
TOTAL AREA: 0.23 AC.±  
LIMIT OF DISTURBED AREA: 0.23 AC.±  
PROPOSED USE FOR SITE: RESIDENTIAL.  
TOTAL NUMBER OF UNITS: 2  
TYPE OF PROPOSED UNIT: SINGLE FAMILY SEMI-DETACHED (DUPLX)  
DEED REFERENCE: L. 18652/F. 279  
COUNTY FILE NUMBERS: PLAT BOOK: 60, PAGE: 115
- TOPOGRAPHIC AND BOUNDARY INFORMATION IS BASED ON MONUMENTED FIELD RUN SURVEY BY MILDBERG, BOENDER & ASSOC. INC. PERFORMED IN OR ABOUT MAY 2019.
- COORDINATES BASED ON NAD '83 (HORIZONTAL) AND NGVD '88 (VERTICAL) MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO.3806 & 0043.  
STA. No. 3806: N 557,155.445 E 1,384,992.228 ELEV. 174.506  
STA. No. 0043: N 558,479.032 E 1,386,642.038 ELEV. 189.436
- NO WETLANDS, STREAMS OR FLOODPLAIN EXIST ON-SITE.
- NO STEEP SLOPES EXIST ON-SITE.
- NO HISTORIC DISTRICTS OR CEMETERIES EXIST OR ARE ADJACENT TO THIS SITE.
- 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 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.
- NO FOREST EXISTS ON SITE AS CERTIFIED BY MILDBERG BOENDER & ASSOC. INC.
- NO STRUCTURES EXISTS ON SITE.
- APPROVAL OF THIS ECP BY THE HOWARD SOIL CONSERVATION DISTRICT DOES NOT PROVIDE APPROVAL OF THE SHOWN SEDIMENT CONTROL.
- NO SPECIMEN TREES EXIST ON SITE.
- THIS PROJECT IS EXEMPT FROM THE FOREST CONSERVATION REQUIREMENTS AS PER SECTION 16.1201(b)(1)(i) OF SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
- THIS PROJECT IS EXEMPT FROM LANDSCAPE REQUIREMENTS AS IT IS INTERNAL TO HARWOOD PARK SUBDIVISION.

NOTE- PROPOSED RAIN BARRELS ARE 200 GALLONS OR 26.7 CUBIC FEET

ESD NARRATIVE

- NO NATURAL RESOURCES SUCH AS STEEP SLOPES, WETLANDS, STREAMS, OR VALUABLE FOREST LAND EXIST ON-SITE. THE PROPOSED DRYWELLS AND RAIN BARREL FACILITIES WILL PROVIDE STORMWATER QUALITY TREATMENT FOR THE NEW DEVELOPMENT, WHICH WILL BE AN IMPROVEMENT OVER EXISTING CONDITIONS.
- THE IMPROVEMENTS AND DEVELOPED AREA WILL MAINTAIN THE EXISTING DRAINAGE PATTERNS AS CLOSELY AS POSSIBLE. NO IMPACT IS PROPOSED THAT WOULD SIGNIFICANTLY ALTER ANY NATURAL FLOW PATTERNS.
- NON-STRUCTURAL PRACTICES WERE USED TO THE MAXIMUM EXTENT POSSIBLE. RAIN GARDENS AND RAIN BARRELS HAVE BEEN UTILIZED.
- THE REQUIRED EROSION AND SEDIMENT CONTROL MEASURES WILL BE IN ACCORDANCE WITH THE LATEST MDE STANDARDS AND SPECIFICATIONS UTILIZING SILT FENCES AND SUPER SILT FENCES. NO CONCENTRATION FLOW IS PROPOSED. NO SEDIMENT TRAPS OR BASINS ARE REQUIRED.
- TABLE 5.2, SUMMARY OF SITE DEVELOPMENT STRATEGIES WERE UTILIZED TO THE EXTENT ALLOWABLE BY THE CURRENT HOWARD COUNTY ZONING AND LAND DEVELOPMENT REGULATIONS BY UTILIZING EXISTING ENTRANCE AND MINIMIZING EARTH DISTURBANCE.
- IN DESIGNING THIS PROJECT, AND AFTER WE PLAN THE PROJECT TO MINIMIZE IMPERVIOUS AREAS, WE UTILIZED ESD MEASURES IN THE FOLLOWING ORDER OF PREFERENCE:  
A. DRYWELL (M-5).  
B. RAIN BARRELS (M-1).

SITE ANALYSIS DATA:

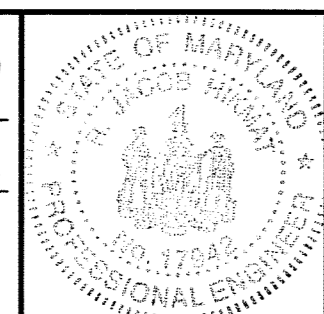
- AREA OF THE SITE = 0.23 AC ±  
LIMIT OF DISTURBANCE (LOD) = 0.23 AC ±
- AREA OF ROAD DEDICATION = 0 AC
- AREA OF WETLANDS AND ITS BUFFERS (WITHIN LOD) = 0 AC
- AREA OF FLOODPLAIN (WITHIN LOD) = 0  
AREA OF 35' ENVIRONMENTAL SETBACK (FLOODPLAIN, WITHIN LOD) = 0
- AREA OF STREAM BUFFER (WITHIN LOD) = 0 AC
- AREA OF STEEP SLOPES (15% OR GREATER WITHIN LOD FOR A VERTICAL DISTANCE OF 10 FEET OR MORE) = 0 AC  
NO STEEP SLOPES WITH A CONTIGUOUS AREA OF 20,000 SF OR GREATER WILL BE DISTURBED.
- AREA OF FOREST (WITHIN LOD) = 0 AC
- TOTAL ENVIRONMENTAL SENSITIVE AREA\* (WITHIN LOD) = 0 AC
- AREA OF HIGHLY ERODIBLE SOILS = 0.23 AC
- TWO (2) SEMI-DETACHED RESIDENTIAL UNITS ARE PROPOSED.

OWNERS/DEVELOPER

MEDITATION LLC  
16204 FREDERICK ROAD  
WOODBINE MD. 21797

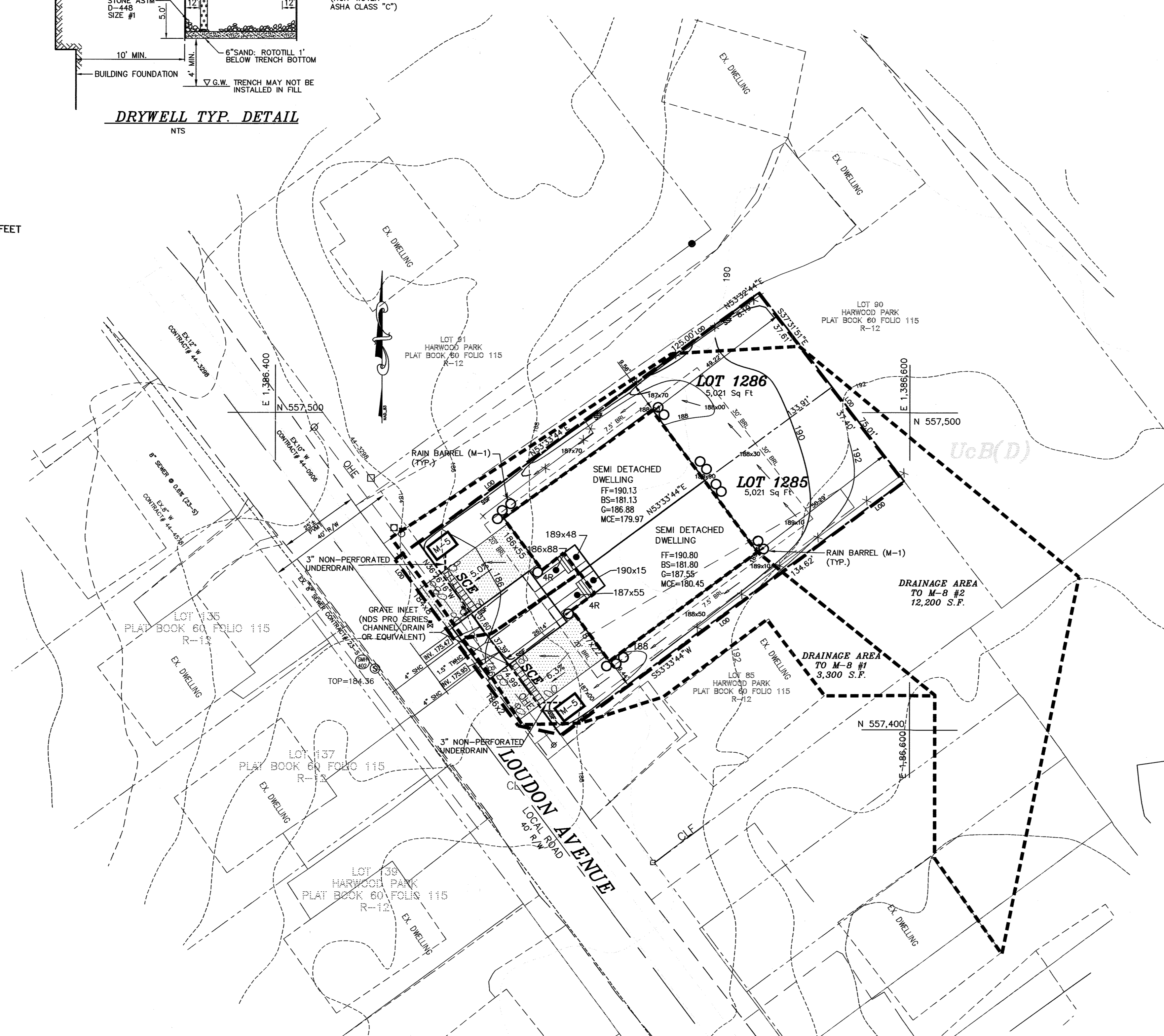
APPROVED: DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 10.1.19  
DATE: 9/25/19  
DATE: 9/25/19



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 17942, EXP. DATE 9/03/20.

*[Signature]* 09/10/19  
DATE: 09/10/19



GRAPHIC SCALE



( IN FEET )  
1 inch = 20 ft.

LEGEND

- LOD --- LIMIT OF DISTURBANCE
- SCE --- STABILIZED CONSTRUCTION ENTRANCE
- SF --- SILT FENCE
- RD --- ROOF DRAIN LEADER
- PROPOSED DRIVEWAY --- PROPOSED DRIVEWAY
- 4" SHC --- SEWER HOUSE CONNECTION
- 4" WHC --- WATER HOUSE CONNECTION
- EX SD --- EXISTING STORMDRAIN
- RAIN BARREL (M-1)

date	SEP. 2019	approval	MMM
project	19-005	illustration	MMT
scale	1"=20'	revisions	MMM

date	
description	
revisions	

HARWOOD PARK, LOTS 1285 AND 1286  
SINGLE FAMILY SEMI-DETACHED DWELLINGS  
TAX MAP 38, PARCEL 873, GRID 13, R-12  
FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
ENVIRONMENTAL CONCEPT PLAN

MILDBERG, BOENDER & ASSOC., INC.  
Engineers Planners Surveyors  
7350-B Grace Drive, Columbia, Maryland 21044  
(410) 997-0286 Tel. (410) 997-0286 Fax.