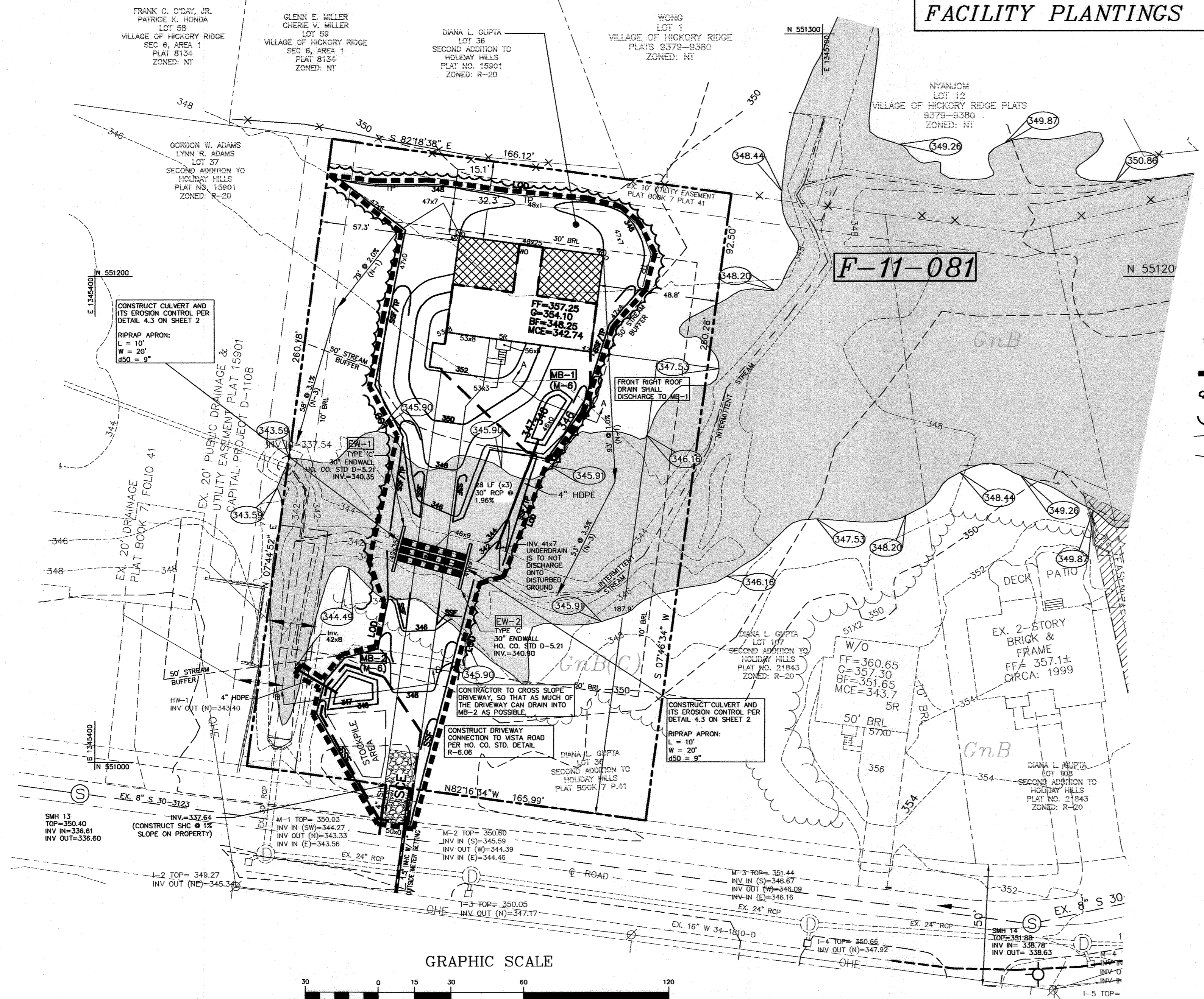


**SEE THIS SHEET FOR  
MICRO-BIORETENTION  
FACILITY PLANTINGS**



30. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK:
- MISS UTILITY 1-800-257-7777
  - VERIZON TELEPHONE COMPANY (410) 725-9976
  - HOWARD COUNTY BUREAU OF UTILITIES (410) 313-4900
  - AT&T CABLE LOCATION DIVISION (410) 393-3533
  - BALTIMORE GAS & ELECTRIC (410) 685-0123
  - STATE HIGHWAY ADMINISTRATION (410) 531-5533
  - HOWARD COUNTY DEPT. OF PUBLIC WORKS/CONSTRUCTION INSPECTION DIVISION (410) 313-1880
31. ENVIRONMENTAL CONCEPT PLAN (ECP 12-023) FOR THIS PROJECT WAS APPROVED ON 1/23/2012
32. THIS PROJECT WILL REQUIRE APPROVAL FROM THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) TO CONSTRUCT THE FACILITY.
33. THIS PROJECT IS SUBJECT TO ALTERNATIVE COMPLIANCE WP-24-041 TO SECTIONS 16.156(a)(1)(i) AND (i)(2). A REQUEST TO ALLOW THE REACTIVATION OF THE EXPIRED SITE DEVELOPMENT PLAN.
- THE APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:
- SUBMISSION OF A REDLINE REVISION FOR SDP-12-020 TO THE DEVELOPMENT ENGINEERING DIVISION WITHIN 30 DAY OF THE DATE OF THIS LETTER (OR BEFORE MARCH 22, 2024).
  - THE NEW FLOODPLAIN LIMITS FOR LOT 36 MUST BE SHOWN ON THE SDP AS A REDLINE REVISION.
  - THE HOUSE FOOTPRINT FOR LOT 36 SHALL NOT NEGATIVELY IMPACT THE FLOODPLAIN OR ABILITY TO PERFORM ESD.
  - THE APPLICANT SHALL OBTAIN ALL REQUIRED AUTHORIZATIONS AND PERMITS FROM MARYLAND DEPARTMENT OF THE ENVIRONMENT AND U.S. ARMY CORPS OF ENGINEERS FOR DISTURBANCES WITHIN THE FLOODPLAIN, WETLAND, WETLAND BUFFER OR STREAM. REFERENCE THE APPLICABLE MDE OR USACE PERMITS OR TRACKING NUMBERS ON THE SDP AND COUNTY PERMITS.

**SOIL CLASSIFICATION:**

GnB (C) GLENVILLE-BAILE SILT LOAMS - 0 TO 8% SLOPES.

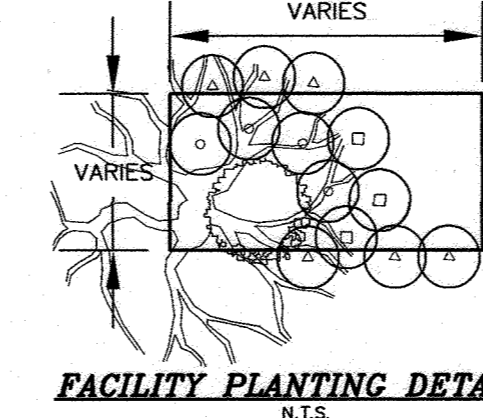
**LEGEND:**

- EX. TREE/BRUSH LINE
- DENOTES PUBLIC 100-YEAR FLOODPLAIN, DRAINAGE & UTILITY EASEMENT
- STABILIZED CONSTRUCTION ENTRANCE
- LIMITS OF DISTURBANCE
- SILT FENCE OR SUPER SILT FENCE
- PROPOSED TREE LINE
- INTERMITTENT STREAM
- TREE PROTECTION FENCE
- AREA TREATED BY N-1 ROOFTOP DISCONNECTION AND N-3 SHEET FLOW TO CONSERVATION
- DRAINAGE AREA DIRECTLY TO MICRO-BIORETENTION
- M-6, MICRO-BIORETENTION FACILITY
- N-1, ROOFTOP DISCONNECTION FLOW PATH (W/DISTANCE AND SLOPE)
- N-3, SHEET FLOW TO CONSERVATION FLOW PATH (W/DISTANCE AND SLOPE)

**PLANT LIST**

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
1	(Symbol)	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	2-1/2" - 3" CAL.
1	(Symbol)	ILEX GLABRA	INK BERRY	2' - 3' HT.
6	(Symbol)	LOBELIA SIPHILITICA	GREAT BLUE LOBELIA	1 GAL. CONTAINER
4	(Symbol)	ONOCLEA SENSIBILIS	SENSITIVE FERN	1 GAL. CONTAINER
3	(Symbol)	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	1 GAL. CONTAINER

TOTAL: 13 PERENNIALS, 1 SHRUB, 1 TREE (PER EACH FACILITY)



**SWM PRACTICES SCHEDULE**

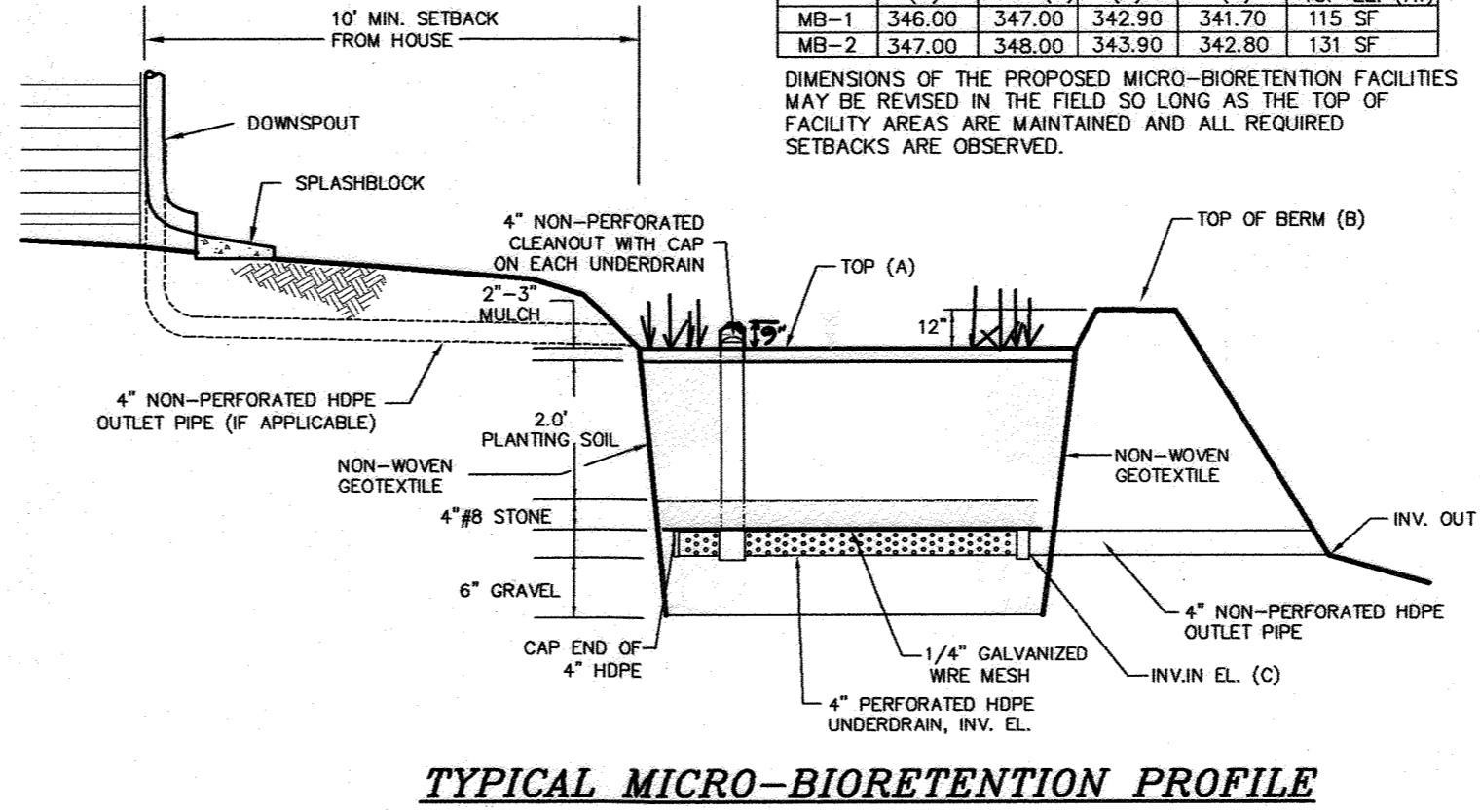
AREA	PROPOSED PRACTICES	REQUIRED ESDv	PROVIDED ESDv	REQUIRED Pe	PROVIDED Pe
LOT 36	N-1, ROOFTOP DISCONNECTION N-3, SHEET FLOW TO CONSERVATION M-6, MICRO-BIORETENTION (MB-1,2)	515 CF	158 CF 95 CF 281 CF	1.00"	1.04"
TOTAL		515 CF	534 CF	1.00"	1.04"

ALL STRUCTURAL BMP'S WILL BE PRIVATELY OWNED AND MAINTAINED

**MICRO-BIORETENTION SCHEDULE**

FACILITY	TOP EL. (A)	TOP OF INV. IN (B)	INV. OUT (C)	AREA AT TOP EL. (AD)
MB-1	346.00	347.00	342.90	341.70 115 SF
MB-2	347.00	348.00	343.90	342.80 131 SF

DIMENSIONS OF THE PROPOSED MICRO-BIORETENTION FACILITIES MAY BE REVISED IN THE FIELD SO LONG AS THE TOP OF FACILITY AREAS ARE MAINTAINED AND ALL REQUIRED SETBACKS ARE OBSERVED.



**TYPICAL MICRO-BIORETENTION PROFILE**

**INDEX OF DRAWINGS**

NO.	DESCRIPTION
1	SITE DEVELOPMENT PLAN
2	EROSION AND SEDIMENT CONTROL AND SWM NOTES AND DETAILS

24. At the time of Redline approval Number 1, the site was mass graded and the culverts were constructed.

**STORMWATER MANAGEMENT PRACTICES**

LOT #	GREEN ROOF	PERMEABLE PAVEMENTS	REINFORCED TURF	DISCONNECTION OF ROOFTOP RUNOFF	DISCONNECTION OF NON-ROOFTOP RUNOFF	SHEETFLOW TO CONSERVATION AREAS	RAINWATER HARVESTING	SUBMERGED GRAVEL WETLANDS	LANDSCAPE INFILTRATION	INFILTRATION BERMS	DRY WELLS	MICRO-BIORETENTION	RAIN GARDENS	SWALES	ENHANCED FILTERS
36	A-1 (Y/N)	A-2 (Y/N)	A-3 (Y/N)	N-1 (NUMBER)	N-2 (Y/N)	N-3 (Y/N)	M-1 (NUMBER)	M-2 (NUMBER)	M-3 (NUMBER)	M-4 (NUMBER)	M-5 (NUMBER)	M-6 (NUMBER)	M-7 (NUMBER)	M-8 (NUMBER)	M-9 (NUMBER)
	0	0	0	2	N	Y	0	0	0	0	0	2	0	0	0

**OWNER / DEVELOPER**

DIANA GUPTA  
10610 VISTA ROAD  
COLUMBIA, MD 21044  
(410) 531-0370

**DEVELOPER'S CERTIFICATE**

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

DIANA L. GUPTA  
PRINTED NAME OF DEVELOPER

**ENGINEER'S CERTIFICATE**

I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

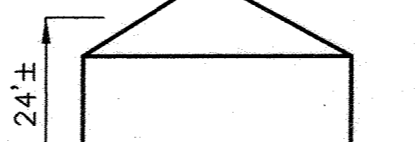
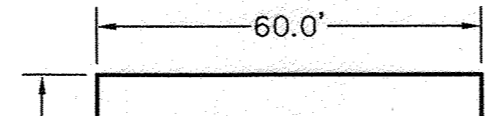
SAMER A. ALOMER, P.E.  
PRINTED NAME OF ENGINEER

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

**SITE ANALYSIS DATA:**

- AREA OF THE SITE = 0.99 ± ACRES, LIMIT OF DISTURBANCE = 0.40 ± ACRES
- AREA OF WETLANDS AND ITS BUFFERS = 0
- AREA OF FLOODPLAIN = 0.32 ACRES
- AREA OF STREAM BUFFER = 0.50 ACRES
- AREA OF STEEP SLOPES = 0 ACRES
- AREA OF FOREST = 0.77 ACRES ±
- TOTAL ENVIRONMENTAL SENSITIVE AREA = 0.53 ± ACRES (AREA CONTAINED WITHIN FLOODPLAIN AND STREAM BUFFER)
- DEVELOPABLE AREA = 0.46 ± ACRES (ON-SITE)  
NEW IMPERVIOUS AREA: 2,451 SF / 0.06 AC (HOUSES AND STOODS)  
2,450 SF / 0.06 AC (LOT DRIVEWAYS)  
4,901 SF / 0.12 AC (TOTAL NEW IMPERVIOUS)
- NO SLOPES OF 15%-24.99% OR SLOPES OF 25% OR GREATER EXIST ON-SITE.
- NO ERODABLE SOILS EXISTS ON SITE.
- ONE SINGLE FAMILY DETACHED DWELLING PER LOT IS PROPOSED.
- OPEN SPACE IS NOT REQUIRED SINCE NO SUBDIVISION IS PROPOSED

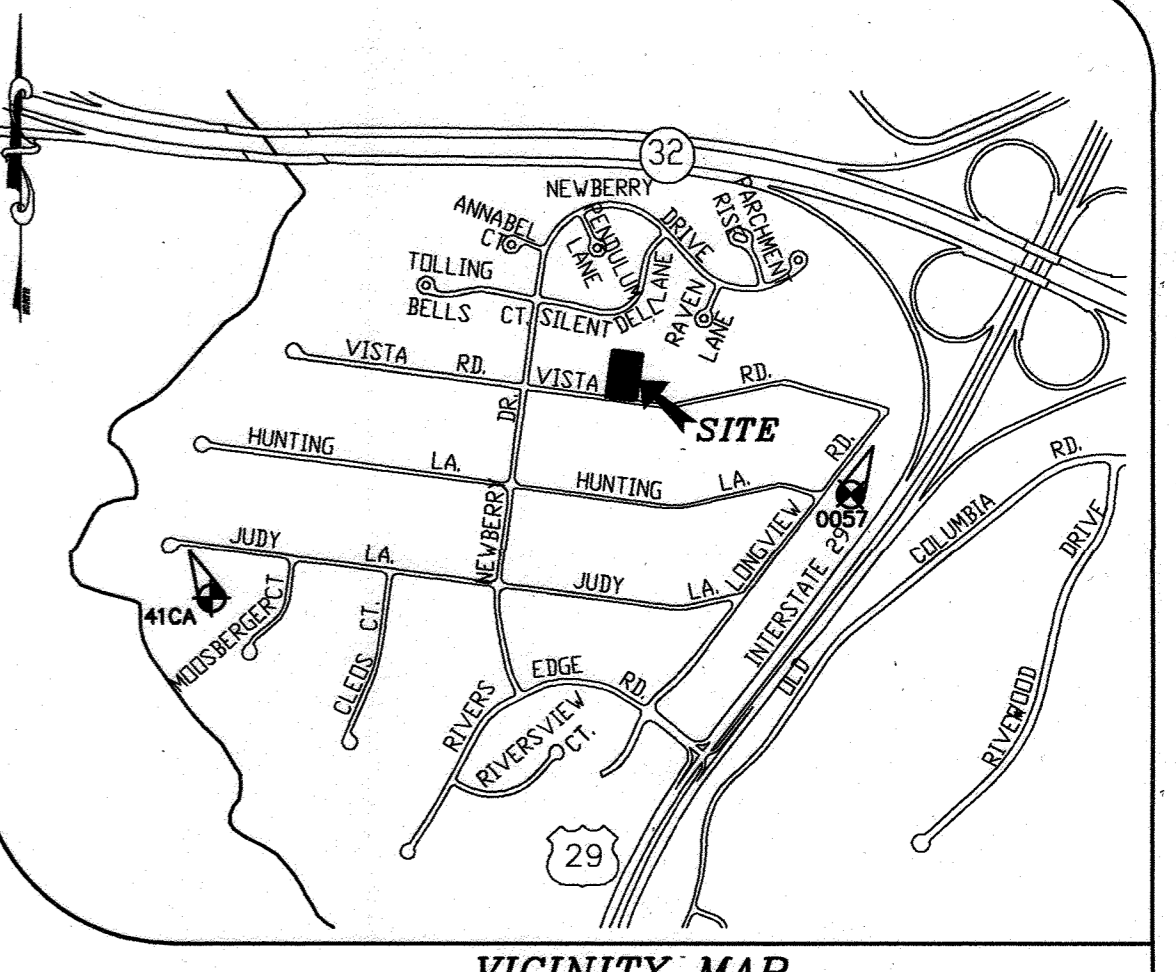


**HOUSE TYPE 'A'**  
SCALE 1"=30'

**PROFILE**  
NO SCALE

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. 26859, EXP DATE 08/08/25

SAMER A. ALOMER, P.E.  
DATE: 03/28/2024



**VICINITY MAP**  
SCALE: 1"=2,000'  
ADC MAP: 5052-2

**GENERAL NOTES:**

- THE SUBJECT PROPERTY IS ZONED R-20 PER THE 02/02/04 COMPREHENSIVE ZONING PLAN AND COMP LITE ZONING AMENDMENTS EFFECTIVE 7/28/06.
- ALL ASPECTS OF THE PROJECT ARE IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS.
- SITE ANALYSIS DATA: TAX MAP: 41 PARCEL: 220 LOT: 36 BLOCK: 6 ELECTION DISTRICT: FIFTH ZONING: R-20 TOTAL AREA: 0.99 AC ± LIMIT OF DISTURBED AREA: 0.40 AC ± PROPOSED USE FOR SITE: RESIDENTIAL TOTAL NUMBER OF UNITS: 1 TYPE OF PROPOSED UNIT: SFD DEED REFERENCE: 07266/00037
- 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. 0057 AND 41CA WERE USED FOR THIS PROJECT. STA. No. 0057 N 550835.2057 E 134707.6516 EL. 398.864 STA. No. 41CA N 550124.8331 E 134080.8189 EL. 295.328
- EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH TWO FOOT CONTOUR INTERVALS PREPARED BY MILDENBERG, BOENDER AND ASSOCIATES IN DECEMBER, 2007
- NO CEMETERIES EXIST ON SITE.
- NO HISTORIC STRUCTURES EXIST ON SITE.
- THE SITE CONTAINS AN INTERMITTENT STREAM AND A PORTION OF THE SITE LIES WITHIN THE 100 YEAR FLOODPLAIN. FLOODPLAIN DELINEATION IS BASED UPON A FLOODPLAIN STUDY PREPARED BY MILDENBERG, BOENDER AND ASSOCIATES IN APRIL, 2011 AND APPROVED UNDER F-11-081.
- NO WETLAND EXISTS ON SITE. AS CERTIFIED BY ECO SCIENCE. IN LETTER OF FINDINGS DATED OCTOBER, 2011. FOREST STAND DELINEATION PREPARED BY ECO-SCIENCE, INC. OCTOBER, 2011.
- NO STEEP SLOPES MORE THAN 20,000 SQ. FT. EXIST ON SITE.
- PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT. PUBLIC WATER AND SEWER WILL BE UTILIZED UNDER CONTRACT # 34-1810-D (WATER) AND 30-3123 (SEWER)
- ACCESS FOR LOT 36 WILL BE VIA A DRIVEWAY CONNECTION TO VISTA ROAD. DRIVEWAY ENTRANCE IS PER HOWARD COUNTY STANDARD DETAIL: R-6-06
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
  - WIDTH - 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE).
  - SURFACE - 6 INCHES COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING.
  - GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM 45-FOOT TURNING RADIUS.
  - STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (125 LOADINGS).
  - DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.
  - STRUCTURE CLEARANCES - MINIMUM 12 FEET
  - MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.
- THIS PLAN IS CONDITIONALLY EXEMPT FROM FOREST CONSERVATION REQUIREMENTS WITH A DECLARATION OF INTENT PER SECTION 16.1202(b)(2)(i)(a) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. GRADING AND CLEARING OF EXISTING FOREST IS LESS THAN 20,000 SF.
- PERIMETER LANDSCAPING FOR LOT 36 IS NOT REQUIRED, BECAUSE THIS LOT IS AN INTERNAL LOT WITHIN THE SAME DEVELOPMENT, PER THE LANDSCAPE MANUAL.
- NO CLEARING OF EXISTING VEGETATION IS PERMITTED WITHIN THE LANDSCAPED EDGE FOR WHICH CREDIT BEING TAKEN; HOWEVER, LANDSCAPE MAINTENANCE IS AUTHORIZED.
- FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM LOT AND ROAD RIGHT OF WAY LINE AND NOT TO THE PIPESTEM LOT DRIVEWAY.
- STORMWATER MANAGEMENT IS PROVIDED VIA ROOFTOP, NON-ROOFTOP DISCONNECTION AND USE OF MICROSCALE PRACTICES (MICRO-BIORETENTION) IN ACCORDANCE WITH THE 2007 MDE STORMWATER DESIGN MANUAL UNDER ECP-12-023. STORMWATER MANAGEMENT FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED. A DECLARATION OF COVENANT SHALL BE RECORDED FOR THE MAINTENANCE AND INSPECTION OF THE MICRO-BIORETENTION FACILITIES.
- NO GRADING, REMOVAL OF VEGETATION COVER OR TREES, PAWING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM(S) OR THEIR BUFFERS. FOREST CONSERVATION EASEMENT AREAS AND 100 YEAR FLOODPLAIN, UNLESS APPROVED BY THE DEPARTMENT OF PLANNING AND ZONING OR OTHER APPLICABLE REGULATORY AGENCY. A DECLARATION OF COVENANT SHALL BE RECORDED FOR THE MAINTENANCE AND INSPECTION OF THE BIORETENTION FACILITIES.
- NO OPEN SPACE IS REQUIRED FOR THIS PROJECT SINCE NO SUBDIVISION IS PROPOSED.
- THE SITE IS CURRENTLY VACANT.
- PER SECTION 16.1107(b)(2) OF THE HOWARD COUNTY APPLIED PUBLIC FACILITIES ORDINANCE (AFO), THIS PROJECT IS EXEMPT FROM AFO REQUIREMENTS
- SIDEWALKS, STREET LIGHTS, AND STREET TREES ARE NOT PROPOSED ALONG THE SITE'S FRONTAGE ON VISTA ROAD.
- DISTURBANCE TO THE STREAM BUFFER IS ESSENTIAL FOR CONSTRUCTION OF THE PROPOSED DRIVEWAY THAT PROVIDES ACCESS FROM THE DEVELOPABLE PORTION OF THE LOT TO VISTA ROAD. THIS PROJECT FALLS UNDER THE GUIDELINES SET FORTH FOR NECESSARY DISTURBANCE PER SECTION 16.116(c)(1)(i) THRU (iv). PERMISSION TO DISTURB THE STREAM BUFFER HAS BEEN GRANTED BY MDE UNDER PERMIT 201260666.
- IN ACCORDANCE WITH SECTION 125 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS, OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- WATER AND SEWER SERVICE TO THESE LOTS WILL BE PROVIDED IN ACCORDANCE WITH SECTION 18.122B OF THE HOWARD COUNTY CODE. PUBLIC WATER AND SEWAGE ALLOCATION WILL BE GRANTED AT THE TIME OF ISSUANCE OF THE BUILDING PERMIT IF CAPACITY IS AVAILABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTIONS AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- ANY DAMAGE TO THE COUNTY RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- SEWER HOUSE CONNECTIONS SHOWN ARE LOCATED AT THE PROPERTY LINE.

**PERMIT INFORMATION CHART**

SUBMISSION NAME	SECTION/AREA	LOT/PARCEL #
2nd ADDITION TO HOLIDAY HILLS	N/A	LOT 36
PLAT # OR L/F	BLOCK #	ZONE
15901	6	R-20
MAP	TAX MAP	41
	ELEC. DIST.	FIFTH
	CENSUS TRACT	605102

**ADDRESS CHART**

LOT/PARCEL NO.	STREET ADDRESS
LOT 36	10622 VISTA ROAD

project	date	description	revision
07-041	MAR 2024	engineering	JLS
		illustration	JLS
		scale	JLS
		approval	RH

date	description
FEB 2024	1. UPDATED FLOODPLAIN AREA
	2. REVISED

**REVISED**

**SECOND ADDITION TO HOLIDAY HILLS SUBDIVISION, LOT 36**  
PLAT NO. 15901, SFD LOT  
TAX MAP 41, BLOCK 6, PARCEL 220  
HOWARD COUNTY, MARYLAND  
FIFTH ELECTION DISTRICT

**SITE DEVELOPMENT PLAN**

**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
8818 FORREST ST. ELLICOTT CITY, MD 21143  
(410) 997-0286 TEL. CONTACT@MBA-ENG.COM E-MAIL

