

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SUPPLEMENTAL PLAN
3	SUPPLEMENTAL DETAILS

Minimum Lot Size Tabulation			
Lot No.	Gross Area	Pipestem Area	Minimum Lot Size
6	23,455 Sq. Ft.±	3,373 Sq. Ft.±	20,082 Sq. Ft.±

# SUPPLEMENTAL PLAN GOLDBERG PROPERTY

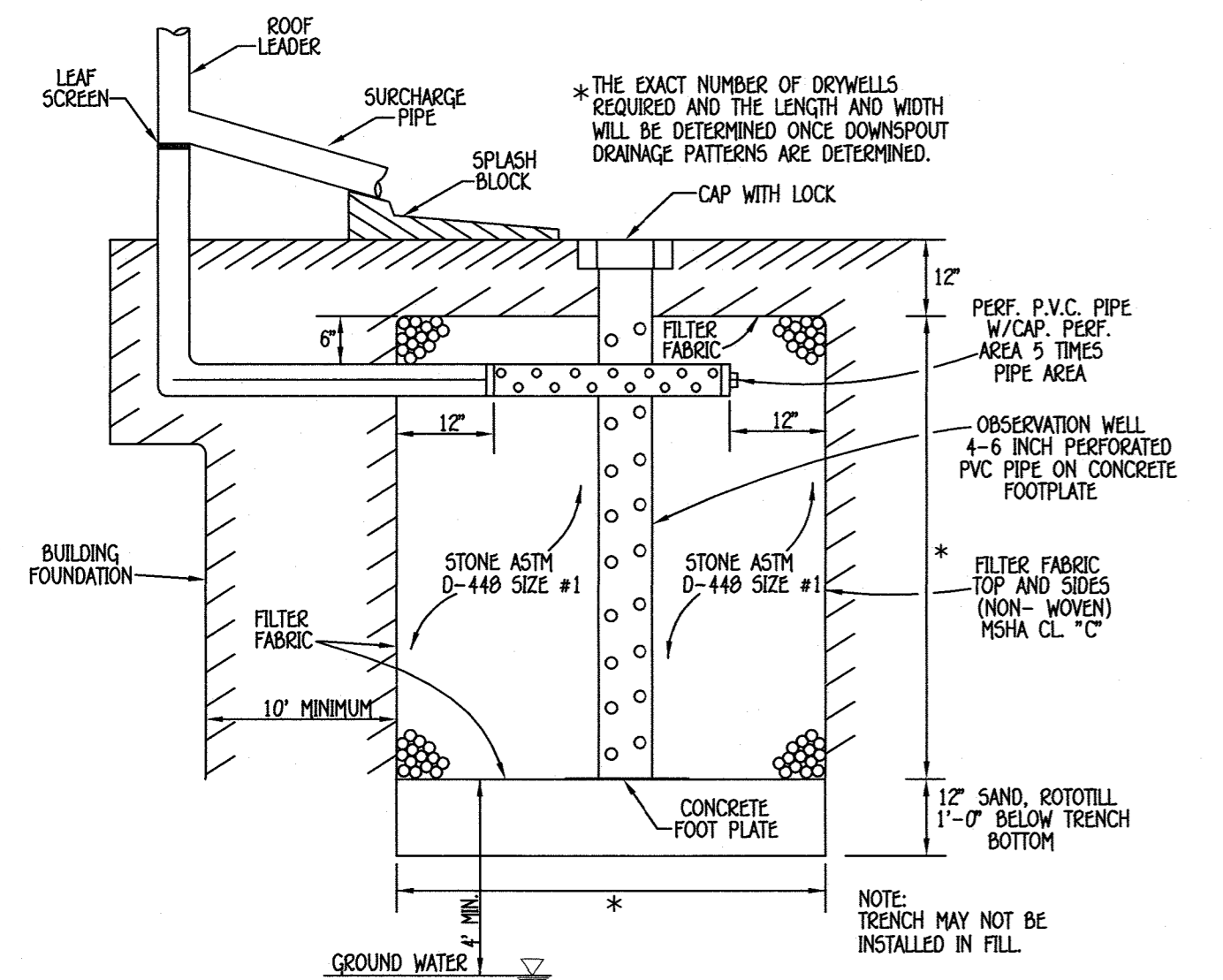
TAX MAP No. 18 GRID No. 20 PARCEL NO. 65  
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SOILS LEGEND			
SOIL	NAME	CLASS	K FACTOR
GhB	Glennig-Urbán land complex, 0 to 8 percent slopes	B	.20
GnB	Glennville-Báile silt loams, 0 to 8 percent slopes	C	.37
MaC	Manor loam, 8 to 15 percent slopes	B	.24

Soil Map Number: 14 (Ellicott City, SE)

STORMWATER MANAGEMENT SUMMARY			
AREA ID.	ESDV REQUIRED CU.FT.	ESDV PROVIDED CU.FT.	REMARKS
SITE	1046	1052	DRY WELLS (M-5)
TOTAL	1046	1052	

GROSS AREA = 1.376 ACRES  
LOD = 0.75 ACRES (32,600 Sq.Ft.)  
RCN = 55  
TARGET Pe = 1.4"

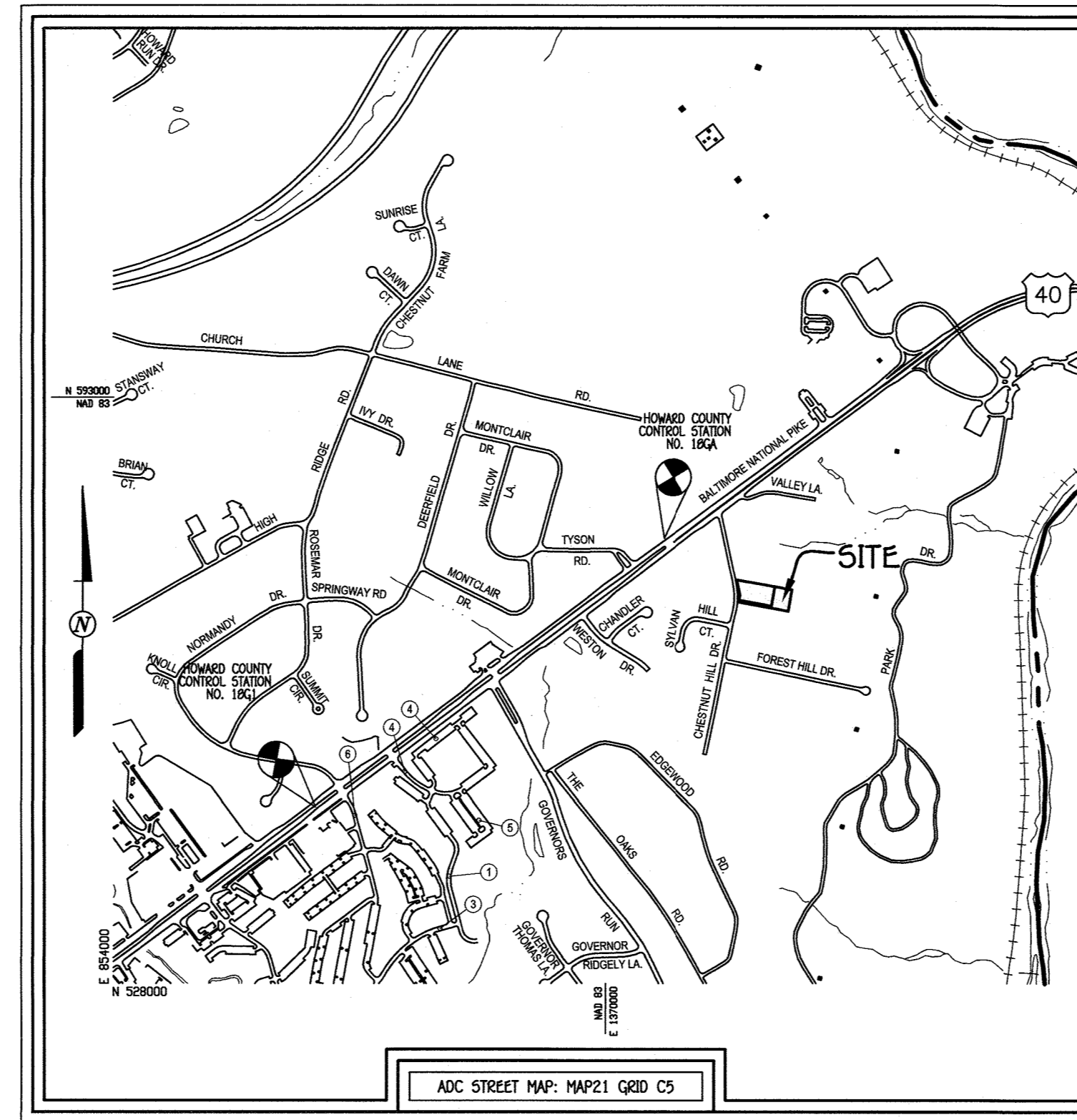


GUTTER DRAIN FILTER DETAIL  
NOT TO SCALE

### STORMWATER MANAGEMENT NOTES

- STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH CHAPTER 5, "ENVIRONMENTAL SITE DESIGN" OF THE 2007 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL, EFFECTIVE MAY 4, 2010.
- MAXIMUM CONTRIBUTING ROOF TOP AREA TO EACH DOWNSPOUT SHALL BE 1,000 SQ. FT. OR LESS.
- DRYWELLS SHALL BE PROVIDED AT LOCATIONS WHERE THE LENGTH OF DISCONNECTION IS LESS THAN 75' AT 5% THE SIZE AND CONSTRUCTION OF THE DRYWELL SHALL BE IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET.
- FINAL GRADING IS SHOWN ON THE SITE DEVELOPMENT PLAN.

DRY WELL DETAIL (M-5)  
NOT TO SCALE



VICINITY MAP  
SCALE: 1" = 1200'

Table B.4. Materials Specifications for Micro-Bioretenion, Rain Gardens & Landscape Infiltration

Material	Specification	Size	Notes
Plantings	see Appendix A, Table A.4	n/a	plantings are site-specific
Planting soil	loamy sand 60-65% compost 35-40% or sandy loam 30% coarse sand 30% compost 40%		USDA soil types loamy sand or sandy loam; clay content <5%
Organic Content	Min. 10% by dry weight		
Mulch	shredded hardwood		aged 6 months, minimum
Pea gravel diaphragm	pea gravel: ASTM-D-448	No. 8 or No. 9 (1/2" to 3/8")	
Curbin drain	ornamental stone: washed cobbles	stone: 2" to 5"	
Geotextile		n/a	PE Type 1 nonwoven
Gravel (underdrains and infiltration berms)	ASHTO M-43	No. 57 or No. Aggregate (3/8" to 3/4")	
Underdrain piping	F 756, Type F5 28 or ASHTO M-278	4" to 6" rigid schedule 40 PVC or 50625	Slotted or perforated pipe; 3/8" pert. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipe; not necessary underneath pipe. Perforated pipe shall be wrapped with 1/4 inch galvanized hardware cloth
Poured in place concrete (if required)	MSHA Min. No. 3; f = 3500 psi @ 28 days, normal weight, air-entrained; reinforcing to meet ASTM-615-05	n/a	on-site testing of poured-in-place concrete required: 28 day strength and slump test; all concrete design (cast-in-place or pre-cast) not using previously approved site or local aggregate requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland - design to include meeting ACI Code 308.2R; vertical loading (H-10 or H-20); allowable horizontal loading (based on soil pressure); and analysis of potential cracking
Sand	ASHTO-M-6 or ASTM-C-33	0.075" to 0.04"	Sand substitutions such as Silabae and Graystone (ASHTO) #10 are not acceptable. No calcium chlorinated or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand.

DRY WELL CHART					
DRYWELL NO.	AREA OF ROOF PER DOWN SPOUT	VOLUME REQUIRED	VOLUME PROVIDED	AREA OF TREATMENT	L W D
LOT 34 (LT)	1,000 SQ. FT.	76 C.F.	160 C.F.	100%*	10' x 10' x 5'
FRONT (LT.)	1,000 SQ. FT.	76 C.F.	160 C.F.	100%*	10' x 10' x 5'
FRONT (RT.)	1,000 SQ. FT.	76 C.F.	168 C.F.	100%*	14' x 6' x 5'
DRIVEWAY(1)	1,000 SQ. FT.	95 C.F.	162 C.F.	100%*	9' x 9' x 5'
DRIVEWAY(2)	1,000 SQ. FT.	95 C.F.	96 C.F.	100%*	3' x 16' x 5'
DRIVEWAY(3)	1,000 SQ. FT.	95 C.F.	96 C.F.	100%*	3' x 16' x 5'
DRIVEWAY(4)	1,000 SQ. FT.	95 C.F.	96 C.F.	100%*	3' x 16' x 5'

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

- THE OWNER SHALL INSPECT THE MONITORING WELLS AND STRUCTURES ON A QUARTERLY BASIS AND AFTER EVERY HEAVY STORM EVENT.
- 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.
- THE OWNER SHALL MAINTAIN A LOG BOOK TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
- 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.
- THE MAINTENANCE LOG BOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
- 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.

### SITE ANALYSIS DATA CHART

- TOTAL AREA OF THIS SUBMISSION = 1.38 AC.±
- LIMIT OF DISTURBED AREA = 32,600 SQ.FT. OR 0.75 AC.±
- PRESENT ZONING DESIGNATION = G-20 (PER 10/06/2013 COMPREHENSIVE ZONING PLAN)
- PROPOSED USE: RESIDENTIAL
- PREVIOUS HOWARD COUNTY FILES: WP-01-04, F-01-145, ECP-16-040 AND WP-16-113
- 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 AREA OF FOREST TO BE RETAINED = 0.00 AC.±
- TOTAL AREA OF LOTS / BUILDABLE PARCELS = 1.38 AC.±
- TOTAL GREEN OPEN AREA = 1.11 AC.±
- TOTAL IMPERVIOUS AREA = 0.27 AC.±
- TOTAL AREA OF ERODIBLE SOILS = 0.00 AC.±
- TOTAL AREA OF ROAD DEDICATION = 0.00 AC.±

### General Notes:

- Subject Property is Zoned R-20 Per The 10/06/13 Comprehensive Zoning Plan.
- Coordinates Based On NAD '83 Maryland Coordinate System As Projected By Howard County Geodetic Control Station No. 18CA And No. 18C1.  
Sta. 18CA N 591,071.972 E 1,370,380.497 Elevation 445.749  
Sta. 18C1 N 509,984.981 E 1,367,750.306 Elevation 407.736
- This Plat is Based On Field Run Monumented Boundary Survey Performed On Or About November 18, 2015 By Fisher, Collins & Carter, Inc.
- B.R.L. Denotes Building Restriction Line.
- Denotes Iron Pin Set Capped "F.C.C. 106".
- Denotes Iron Pipe Or Iron Bar Found.
- Denotes Angular Change In Bearing Of Boundary Or Rights-Of-Way.
- Denotes Concrete Monument Set With Aluminum Plate "F.C.C. 106".
- Denotes Concrete Monument Or Stone Found.
- All Areas Are More Or Less (±).
- Distances Shown Are Based On Surface Measurement And Not Reduced To NAD '83 Grid Measurement.
- For Flag Or Pipe Stem Lots, Refuse Collection, Snow Removal And Road Maintenance Are Provided To The Junction Of Flag Or Pipe Stem And Road Right-Of-Way Line Only And Not Onto The Flag Or Pipe Stem Lot Driveway.
- Driveways Shall Be Provided Prior To Residential Occupancy To Insure Safe Access For Fire And Emergency Vehicles Per The Following (Minimum) Requirements:  
a) Width - 12 Feet (16 Feet Serving More Than One Residence).  
b) Surface - Six (6") Inches Of Compacted Crusher Run Base With Tar And Chip Coating. (1-1/2" Minimum).  
c) Geometry - Maximum 15% Grade, Maximum 10% Grade Change And 45-Foot Turning Radius.  
d) Structures (Culverts/Bridges) - Capable Of Supporting 25 Gross Tons (H25-Loading).  
e) Drainage Elements - Capable Of Safely Passing 100 Year Flood With No More Than 1 Foot Depth Over Surface.  
f) Structure Clearances - Minimum 12 Feet.  
g) Maintenance Sufficient To Ensure All Weather Use.
- Property Subject To Prior Department Of Planning And Zoning File No's: VP-01-04, F-01-145 And ECP-16-040, WP-16-113.
- To The Best Of Our Knowledge, No Cemeteries Exist On Site By Both Visual Observation And Review Of Available Howard County Information.
- There Is No 100 Year Floodplain, Wetlands, Streams Or Their Buffers On This Site.
- Traffic Study Dated November, 2015 Was Prepared By MARS Group.
- This Property Is Not Located In A Historic District. A Historic House Exists On Site But The Department Of Planning And Zoning Has Determined That Review By The Historic District Commission Is Not Necessary.
- Plat Is Subject To The Amended Fifth Edition Of The Subdivision And Land Development Regulations Per Council Bill No. 45-2003, effective 10/2/03 And The Zoning Regulations Amended By Council Bill 32-2013. Development Or Construction On These Lots Or Parcels Must Comply With Setback And Buffer Regulations In Effect At The Time Of Submission Of The Building/Grading Permit.
- This Property Is Located Within The Metropolitan District.
- There Is An Existing Dwelling To Remain On Lot 5. The Existing Pool And Accessory Structure On Lot 5 Are To Be Removed Prior To Recordation Of The Final Plat. There Is An Existing Shed On Lot 6 To Be Removed Prior To Recordation Of The Final Plat. No New Buildings, Extensions Or Additions To The Existing Structure Are To Be Constructed At A Distance Less Than The Zoning Regulation Requirements.
- Public Water And Sewer Is Provided Via Contract No. 20-W&S.
- Water And Sewer Service To These Lots Will Be Granted Under The Provisions Of Section 18.122.B Of The Howard County Code.
- Public Water And Sewer Allocation Will Be Granted At The Time Of Issuance Of The Building Permit If Capacity Is Available At That Time.
- A Pre-Submission Community Meeting Was Conducted December 7, 2015 At Millers Branch Library, Avalon Meeting Room, 9421 Frederick Road, Ellicott City, Md 21043 For The Purpose Of Providing Information To The Community Regarding The Proposed Residential Development And To Allow The Community To Ask Questions And To Make Comments, Per Section 16.12B Of The Subdivision Regulations.
- A Noise Analysis Dated December, 2015 Was Prepared By MARS Group, And The Site Is Located Outside The 65dBA Noise Contour Line.
- No Forest Resources Exist On This Site Per A Site Visit Performed By Fisher, Collins & Carter, Inc. On Or About January 14, 2016.
- This Plan Has Been Prepared In Accordance With The Provision Of Section 16.124 Of The Howard County Code And The Landscape Manual. Financial Surety For The Required Perimeter Landscaping Will Be Posted As Part Of The Builders Site Development Plan In The Amount Of \$4,200.00 (6 Shade Trees, 8 Evergreen Trees And 40 Shrubs, Based On The Total Number Of Required Shade Trees @ \$300.00 Each, Evergreen Trees @ \$150.00 Each And Shrubs @ \$30.00 Each).
- Open Space Requirements Have Been Satisfied Via The Payment Of A \$1,500.00 Fee-In-Lieu In Accordance With Section 16.121(b) Of The Subdivision And Land Development Regulations.
- Site Is Not Adjacent To A Scenic Road.
- There Are No Disturbances To Environmental Features As There Are No Environmental Features Located On This Property.
- Topography Shown Hereon Is Based On A Topographic Survey Performed By Fisher, Collins & Carter, Inc. In Nov/2015 And Supplemented With Howard County GIS Topography At 5' Contour Interval Interpolated For 2' Contour Interval.
- Stormwater 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. Stormwater Management Devices Located On Individual Lots Will Be Owned And Maintained By That Particular Owner And Subject To The Requirements Of A Recorded Declaration Of Covenant.
- Subdivision Subject To Section 108.02 Of The Zoning Regulations. At Least 10% Of The Dwelling Units Shall Be Moderate Income Housing Units (M.I.H.U.) Or An Alternative Compliance Will Be Provided. The Developer Shall Execute A M.I.H.U. Agreement With The Department Of Housing To Indicate How The M.I.H.U. Requirement Will Be Met. The M.I.H.U. Agreement And Covenants Will Be Recorded Simultaneously With The Plat In The Land Records Office Of Howard County, Maryland. This Development Will Meet M.I.H.U. Alternative Compliance By A Payment Of A Fee-In-Lieu To The Department Of Housing For Each Required Unit.  
Moderate Income Housing Unit (M.I.H.U.) Tabulation:  
a. M.I.H.U. Required = (1 Lot x 10%) = 0.1 M.I.H.U.  
b. M.I.H.U. Proposed = Developer Will Pursue Alternative Compliance By Paying A Fee-In-Lieu To The Howard County Housing Department For The Units Required By The Development.  
c. An Executed M.I.H.U. Agreement With The Howard County Housing Department Will Be Completed And Recorded Simultaneously With The Record Plat.
- This Plan Is Subject To WP-16-113 Which On April 19, 2016 The Planning Director Approved A Request To Waive Section 16.132(a)(1)(iv), Section 16.134(a)(1)(i), Section 16.135 And Section 16.120(c)(2)(i) Of The Howard County Subdivision And Land Development Regulations. Section 16.132(a)(1)(iv) States The Where A Major Subdivision Occurs Within The Original Tract Or Parcel Of Land Upon Which A Minor Subdivision Has Been Recorded, The Developer Of The Major Subdivision Shall Provide Road Improvements Or Contribute Funds. Section 16.134(a)(1) States The Developer Shall Provide For The Construction Of Sidewalks Pursuant To This Section And The Design Manual. Section 16.135 States Unless The Department Of Planning And Zoning, After Consultation With The Director Of Public Works, Determines That Adequate Street Lighting Already Exists, The Developer Of Subdivisions And Site Developments Shall Provide Street Lighting In Accordance With The Design Manual And In Locations Approved By The Director Of Planning And Zoning. Section 16.120(c)(2)(i) States That Twenty Feet Minimum Public Road Frontage Shall Be Provided For Single Pipestem And Non-Pipestem Lots And Preservation Parcels Which Cannot Be Further Divided Under Current Zoning. Approval Is Subject To The Following Conditions:  
• Submission Of A Final Plat To DPZ Is Required For The Resubdivision Of Lot 1.  
• A New Use-In-Common Driveway Maintenance Agreement Will Be Needed. This Agreement Should Be Provided And Recorded For All Existing Users Of The Use-In-Common Driveway. A Final Determination Shall Be Made At The Final Plat Stage Concerning The Recording Of A New Use-In-Common Driveway Maintenance Agreement.  
• Subject To The Submission And Approval Of A Design Manual Waiver Will Be Required For Volume III.  
• Section 2.6 To Allow More Than 6 Users On A Use-In-Common Driveway.  
• Compliance With The Attached Comments From Development Engineering Division Dated April 8, 2016 Regarding The Payment Of A Fee-In-Lieu For Road Improvements, Sidewalks And Street Lights To Be Determined At The Final Plat Stage.  
• Add A General Note To All Future Plans That Will Be Submitted To DPZ Regarding WP-16-113, With The Approval Date, Conditions, And Payment Of A Fee-In-Lieu For Construction Of Road Improvements, Sidewalks And Street Lights.  
• The Existing Trees Located Along Chestnut Hills Drive Shall Be Retained To Satisfy The Street Tree Requirement.
- The Forest Conservation Requirement Of Section 16.1200 Of The Howard County Code And Forest Act Provided By A Fee-In-Lieu Payment Of \$11,000.00 Based On 0.21 Acres X \$3,560 Sq.Ft./Acres X \$18.5/Sq.Ft.
- A Fee-In-Lieu In The Amount Of \$18,033.50 Has Been Paid For Construction Of Road Improvements. See General Note No. 35.
- The Private Use-In-Common Driveway Access Easement For The Use And Benefit Of Lot 5 And Lot 6 Is Recorded Simultaneously With The Final Record Plat.
- Approval Of A Site Development Plan Is Required For The Development Of Lot 6 Prior To Issuance Of Any Grading Or Building Permit For New House Construction In Accordance With Section 16.155 Of The Subdivision And Land Development Regulations.

## SUPPLEMENTAL PLAN LANDSCAPE, FOREST CONSERVATION, TOPOGRAPHY & SOILS GOLDBERG PROPERTY, LOTS 5 AND 6

ZONED: R-20  
TAX MAP #18 GRID# 20 PARCEL #65  
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: AUGUST 2020  
SHEET 1 OF 3

### OWNER/DEVELOPER

ANI REAL ESTATE INVESTMENTS LLC  
ATTN: VIFIN MOTWANI  
301 ARGOSY DRIVE  
GATHERBURG, MARYLAND 20878  
240-597-2925

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development EB  
Date: 7/1/2020  
Chief, Development Engineering Division JP  
Date: 8/31/20

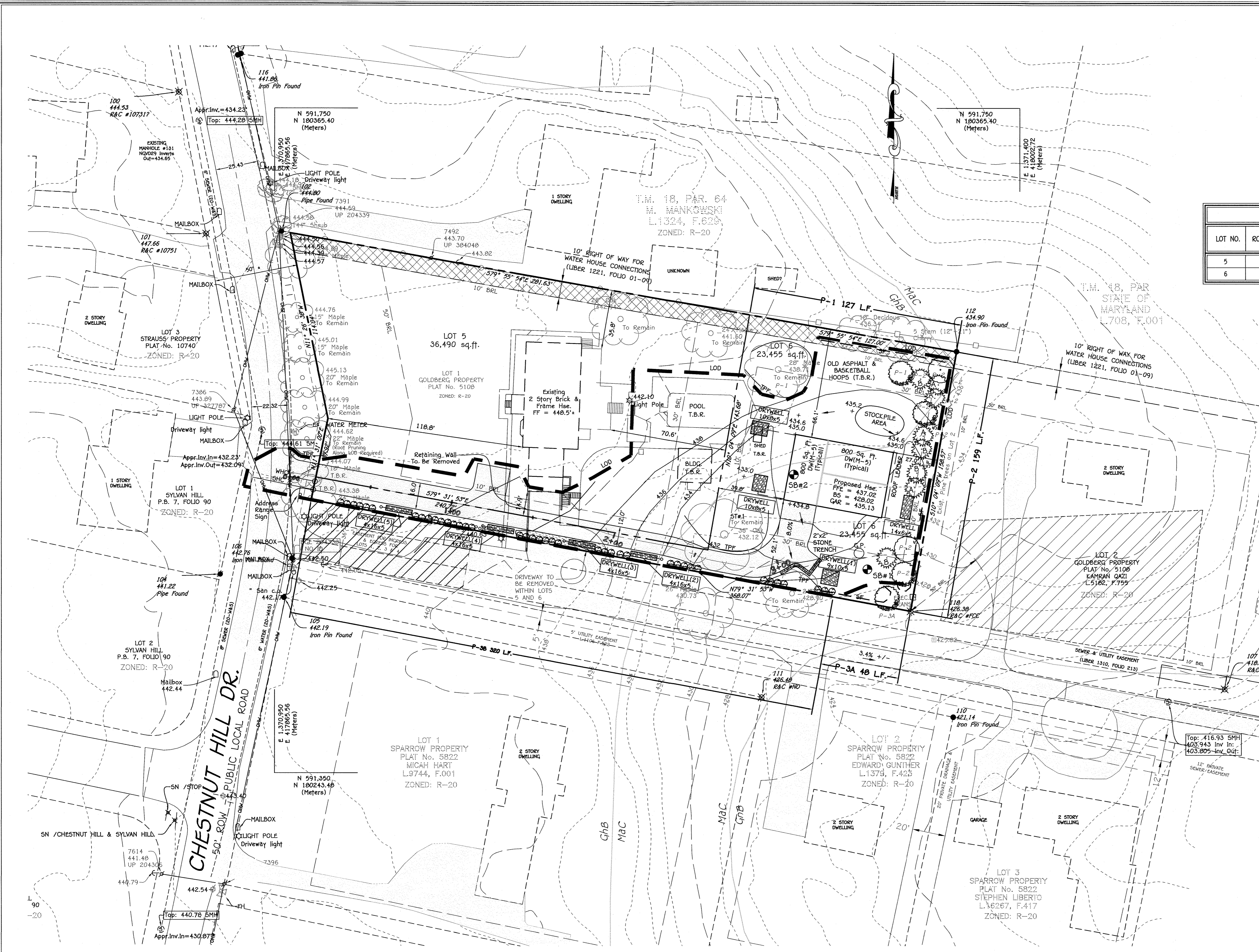
### PROFESSIONAL CERTIFICATION

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. 36386, EXPIRATION DATE: 01/12/2022.

Signature of Professional Engineer: [Signature]  
Date: 9/8/20



FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
NATIONAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE  
ELICOTT CITY, MARYLAND 21042  
(410) 461-2895



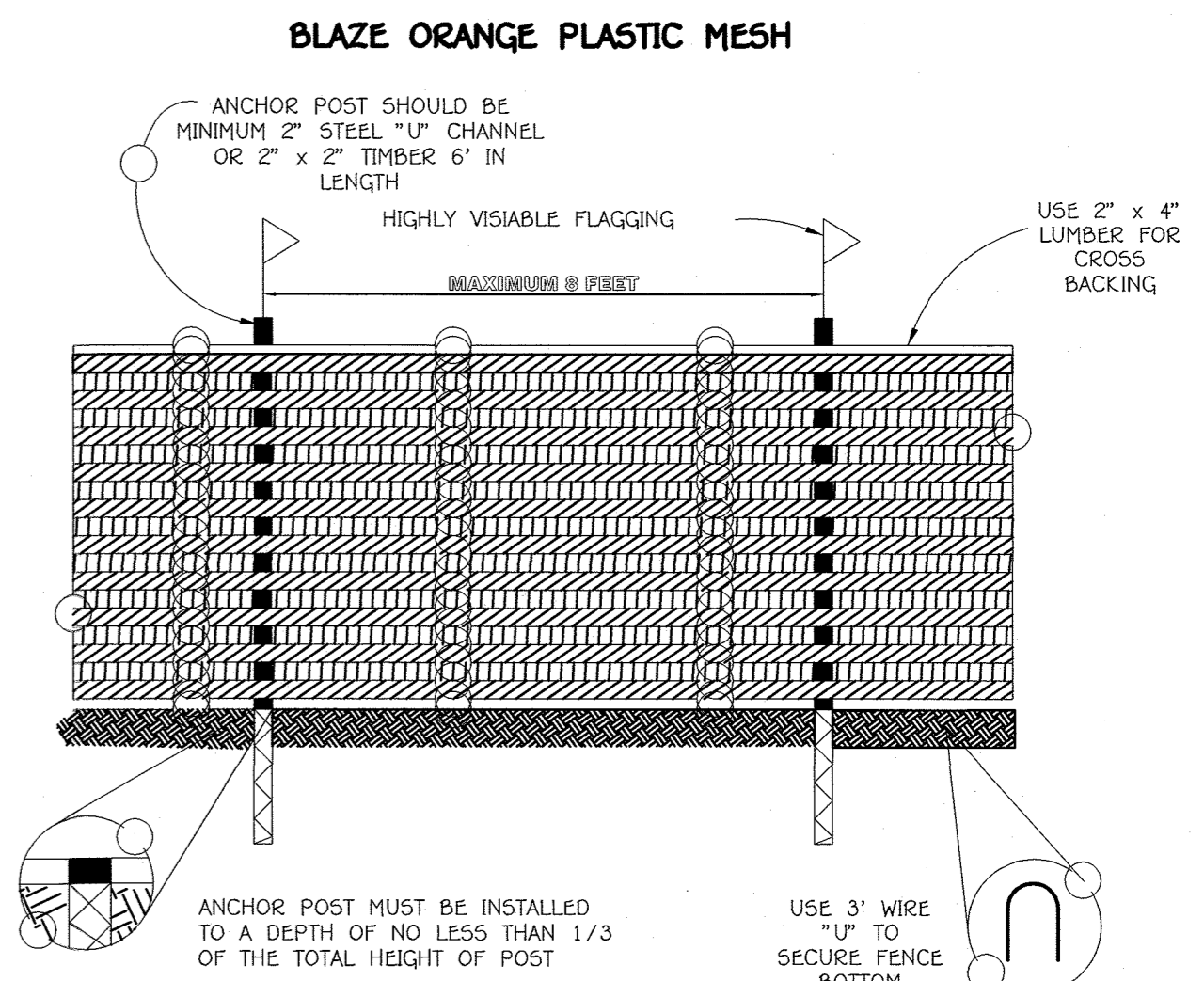
LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING 2' CONTOURS		PROPOSED CONTOUR
	EXISTING 10' CONTOURS		SPOT ELEVATION
	SOILS LINES AND TYPE		LIMITS OF DISTURBANCE
	EXISTING TREELINE		DRAINAGE AREA DIVIDE
	INDIVIDUAL TREES & SHRUBS		SILT FENCE
	EXISTING FENCE LINE		EROSION CONTROL MATTING
	EXISTING & PROPOSED PAVING		STABILIZES CONSTRUCTION ENTRANCE
	TO BE REMOVED		TREE PROTECTION FENCE
	EXIST. ASPHALT TO BE REMOVED		DA TO STONE TRENCH AND DRYWELL
	GRINDER PUMP		

STORMWATER MANAGEMENT PRACTICES				
LOT NO.	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	GRASS SWALES (M-8) Y/N, NUMBER
5	-	-	-	-
6	NO	NO	YES, FOUR (4)	NO

SOILS LEGEND				
SOIL	NAME	CLASS	K FACTOR	
GhB	Glenelg-Urban land complex, 0 to 8 percent slopes	B	.20	
GbB	Glenville-Baile silt loams, 0 to 8 percent slopes	C	.43	
MaC	Manor loam, 8 to 15 percent slopes	B	.20	

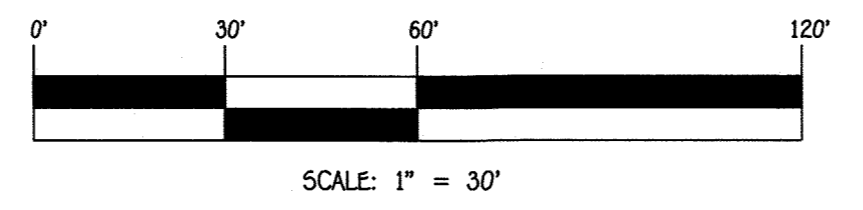
SOIL MAP NUMBER: 14, (ELLCOTT CITY, SE)

SPECIMEN TREE TABLE				
KEY	SPECIES	SIZE (DBH)	CRZ (FT RADIUS)	COMMENTS
1	Pin Oak	36"	54.0	POOR, DIEBACK (TO REMAIN)



- NOTES:
- FOREST PROTECTION DEVICE ONLY.
  - RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
  - BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
  - ROOT DAMAGE SHOULD BE AVOIDED.
  - PROTECTIVE SIGNAGE MAY ALSO BE USED.
  - DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

**TREE PROTECTION DETAIL (TPF)**  
NOT TO SCALE



**OWNER/DEVELOPER**  
ANI REAL ESTATE INVESTMENTS LLC  
ATTN: VIPIN MOTWANI  
301 ARGOSY DRIVE  
GATHERBURG, MARYLAND 20878  
240-597-2252

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development ES *[Signature]* 9/18/20  
Date 9/18/20

Chief Development Engineering Division JP *[Signature]* 8/31/20  
Date 8/31/20

**PROFESSIONAL CERTIFICATION**

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. 38386, EXPIRATION DATE: 01/12/2022.

*[Signature]* 8/12/20  
Signature of Professional Engineer DATE 8/12/20

**DEVELOPER'S / BUILDER'S CERTIFICATE**

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

*[Signature]* 8/12/20  
NAME DATE 8/12/20

**SUPPLEMENTAL PLAN**  
LANDSCAPE, FOREST CONSERVATION, TOPOGRAPHY & SOILS  
**GOLDBERG PROPERTY,**  
LOTS 5 AND 6

ZONED: R-20  
TAX MAP #18 GRID# 20 PARCEL #65  
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: AUGUST 2020  
SHEET 2 OF 3

**FOREST CONSERVATION WORKSHEET  
VERSION 1.0**

**BASIC SITE DATA:**

A. TOTAL TRACT AREA	1.38 Ac
B. AREA WITHIN 100 YEAR FLOODPLAIN	0
C. NET TRACT AREA	1.38 Ac

**LAND USE CATEGORY:** (from table 3.2.1, page 40, Manual)  
ARA MDR IDA HDR MPD CIA

**INFORMATION FOR CALCULATIONS:**

D. AFFORESTATION THRESHOLD	0.15% x 0 = 0.21
E. FOREST CONSERVATION THRESHOLD	0.20% x 0 = 0.20
F. EXISTING FOREST COVER WITHIN NET TRACT AREA	0
G. AREA OF FOREST ABOVE CONSERVATION THRESHOLD	0

**BREAK EVEN POINT:**

H. FOREST RETENTION ABOVE THRESHOLD WITH NO MITIGATION	0
I. CLEARING PERMITTED WITHOUT MITIGATION	0

**PROPOSED FOREST CLEARING:**

J. TOTAL AREA OF FOREST TO BE CLEARED	0
K. TOTAL AREA OF FOREST TO BE RETAINED	0

**PLANTING REQUIREMENTS:**

L. REFORESTATION FOR CLEARING ABOVE CONSERVATION THRESHOLD	0
M. REFORESTATION FOR CLEARING BELOW CONSERVATION THRESHOLD	0
N. CREDIT FOR RETENTION ABOVE CONSERVATION THRESHOLD	0
P. TOTAL REFORESTATION REQUIRED	0.21
Q. TOTAL AFFORESTATION REQUIRED	0.21
R. TOTAL REFORESTATION AND AFFORESTATION REQUIRED	0.21
S. EXCESS FOREST CREDIT	0

**SCHEDULE A - PERIMETER LANDSCAPE EDGE**

PERIMETER	P-1	P-2	P-3A	P-3B	TOTAL
CATEGORY	ADJACENT TO PERIMETER PROPERTIES	ADJACENT TO PERIMETER PROPERTIES	ADJACENT TO PERIMETER PROPERTIES	ADJACENT TO PERIMETER PROPERTIES	A **
LANDSCAPE TYPE	A	C	A	A **	
LINEAR FEET OF PERIMETER	127 L.F.	159 L.F.	48 L.F.	320 L.F.	
NUMBER OF PLANTS REQUIRED					
SHADE TREES	(127/60' = 2.1 OR 2)	(159/40' = 4.0 OR 4)	(48/60' = 0.8 OR 1)	N/A	7
EVERGREEN TREES	N/A	(159/20' = 8.0 OR 8)	N/A	N/A	8
CREDIT FOR EXISTING VEGETATION	1*	0	0	0	1
SHADE TREES					
SMALL/MEDIUM DECIDUOUS TREES (2:1 SUBSTITUTION)	0	0	0	0	0
NUMBER OF PLANTS PROVIDED					
SHADE TREES	1	4	1	SEE BELOW **	6 shade trees
EVERGREEN TREES	0	8	0	0	8 evergreens

\* NOTE: CREDIT TAKEN  
P-1...28' Maple located in the northwest corner of lot 6.  
P-2...None  
P-3A...None  
\*\* NOTE  
P-3B...Per Section 16.120(b)(4) a hedge will be provided. (40 Shrubs)

**LANDSCAPING PLANT LIST**

QTY.	KEY	NAME	SIZE
4	(Symbol)	ACER RUBRUM "OCTOBER GLORY" (OCTOBER RED MAPLE)	2 1/2" - 3" CALIPER FULL CROWN, B&B
2	(Symbol)	PRUNUS SARGENTII (SARGENT CHERRY)	2 1/2" - 3" CALIPER FULL CROWN, B&B
4	(Symbol)	ILEX 'NELLIE R. STEVENS' (NELLIE R. STEVENS HOLLY)	5'-6" HT. B&B
4	(Symbol)	THUJA STANDISHII X PLICATA (GREEN GIANT ARBORVITAE)	5'-6" HT. B&B
40	(Symbol)	TAXUS MEDIA "HICKSII" (HICKS UPRIGHT YEW)	2.5'-3" HT. B&B

TOTAL: 6 SHADE TREES, 8 EVERGREEN TREES & 40 SHRUBS

**LEGEND**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
(Symbol)	EXISTING 2' CONTOURS	(Symbol)	PROPOSED CONTOUR
(Symbol)	EXISTING 10' CONTOURS	(Symbol)	SPOT ELEVATION
(Symbol)	SOILS LINES AND TYPE	(Symbol)	LIMITS OF DISTURBANCE
(Symbol)	EXISTING TREELINE	(Symbol)	DRAINAGE AREA DIVIDE
(Symbol)	INDIVIDUAL TREES & SHRUBS	(Symbol)	SILT FENCE
(Symbol)	EXISTING FENCE LINE	(Symbol)	EROSION CONTROL MATTING
(Symbol)	EXISTING & PROPOSED PAVING	(Symbol)	STABILIZES CONSTRUCTION ENTRANCE
(Symbol)	TO BE REMOVED	(Symbol)	TREE PROTECTION FENCE
(Symbol)	EXIST. ASPHALT TO BE REMOVED	(Symbol)	DA TO STONE TRENCH AND DRYWELL

**STORMWATER MANAGEMENT PRACTICES**

LOT NO.	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	GRASS SWALES (M-8) Y/N, NUMBER
5	-	-	-	-
6	NO	NO	YES, FOUR (4)	NO

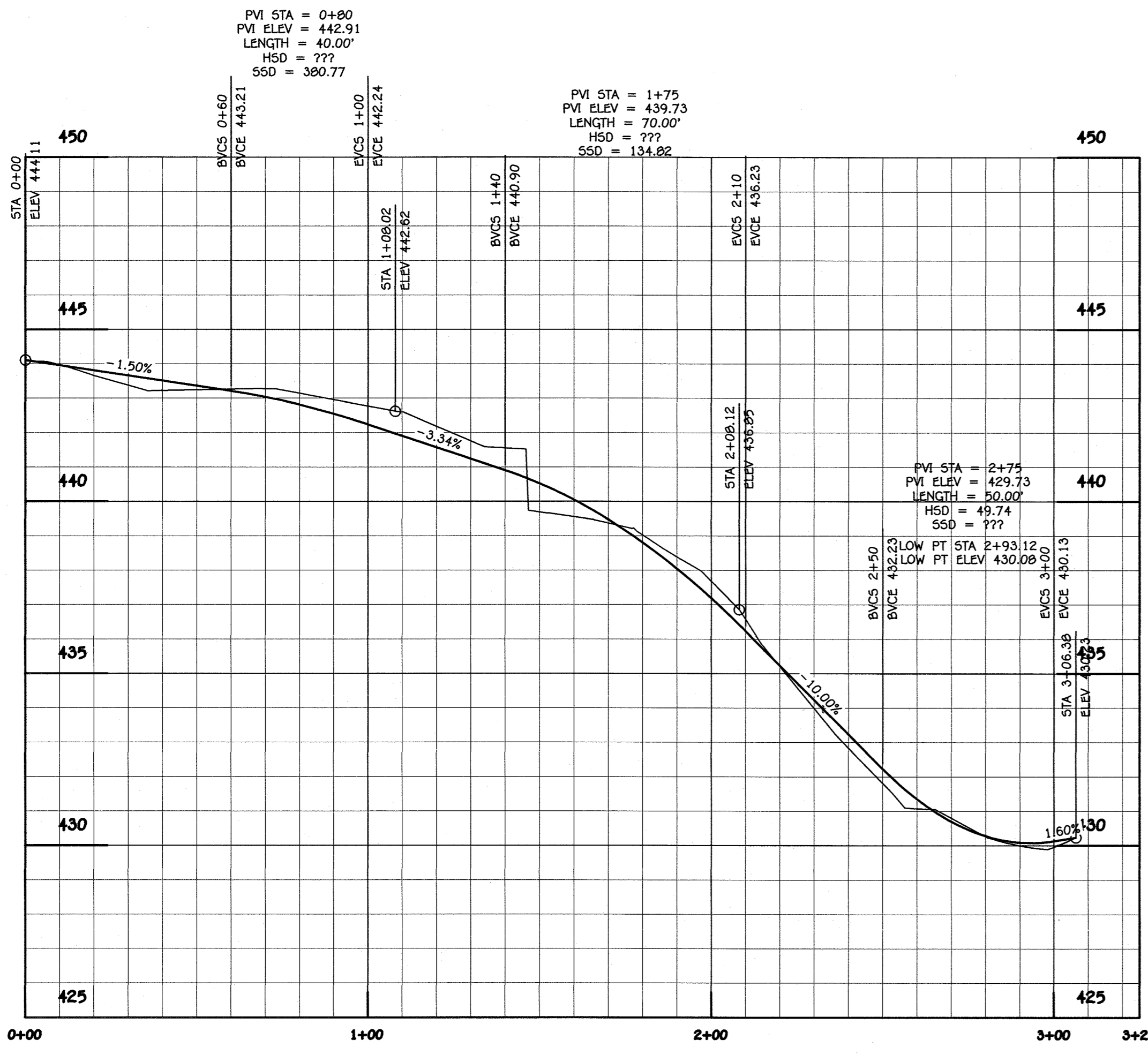
**SOILS LEGEND**

SOIL	NAME	CLASS	K FACTOR
GhB	Glenelig-Urbain land complex, 0 to 8 percent slopes	B	.28
GnB	Glenville-Baile silt loams, 0 to 8 percent slopes	C	.43
MaC	Manor loam, 8 to 15 percent slopes	B	.28

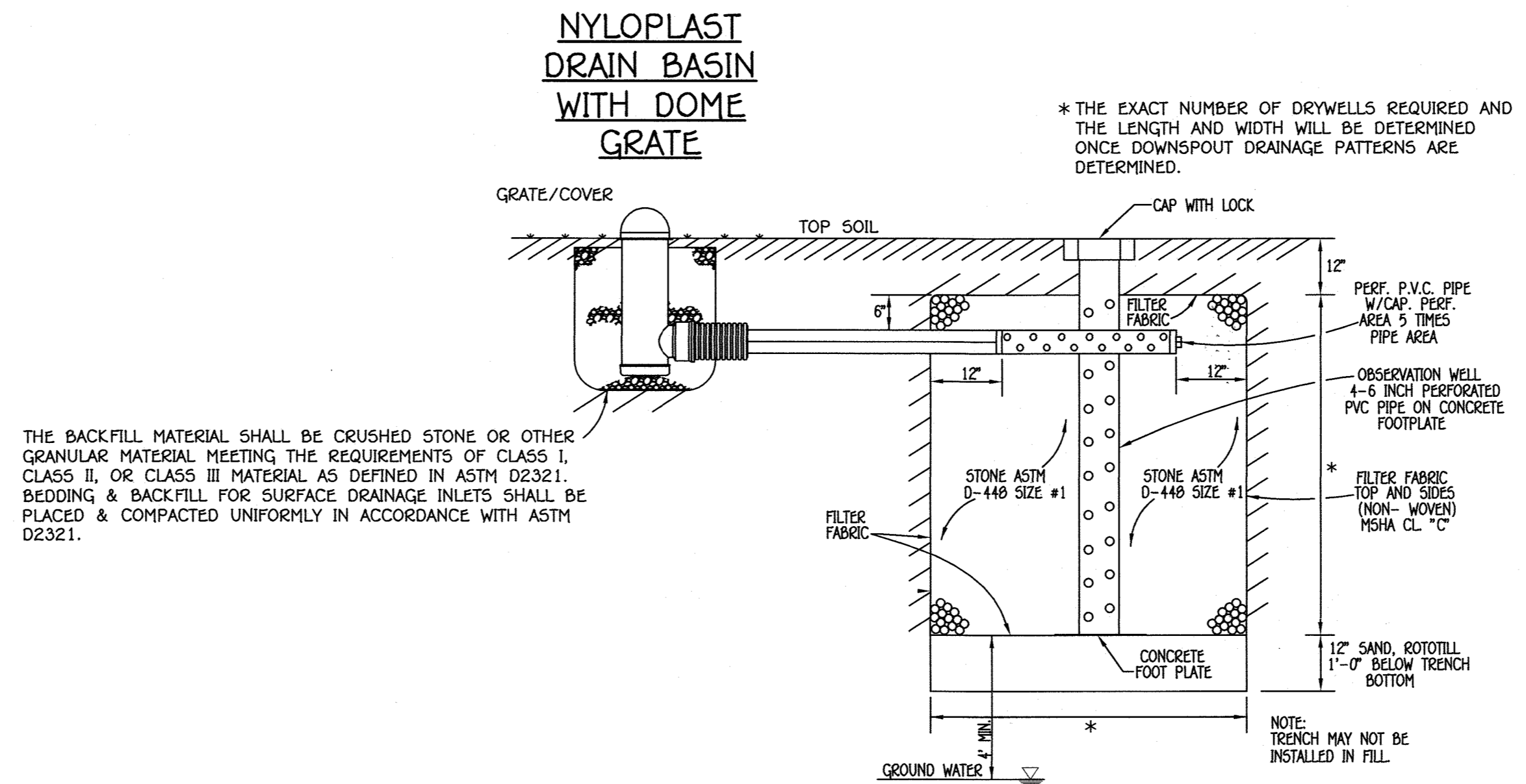
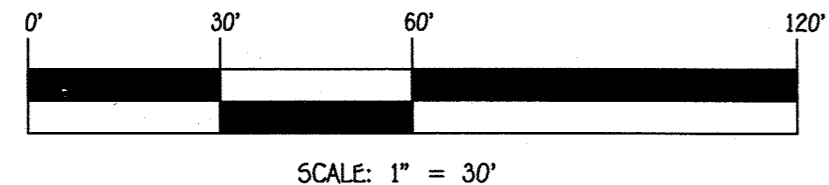
SOIL MAP NUMBER: 14, (ELLCOTT CITY, SE)

**SPECIMEN TREE TABLE**

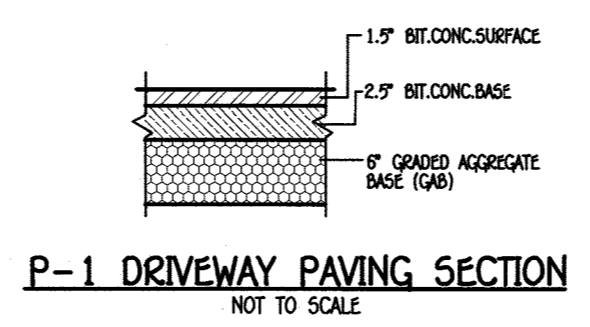
KEY	SPECIES	SIZE (DBH)	CRZ (FT RADIUS)	COMMENTS
1	Pin Oak	36"	54.0	POOR, DIEBACK (TO REMAIN)



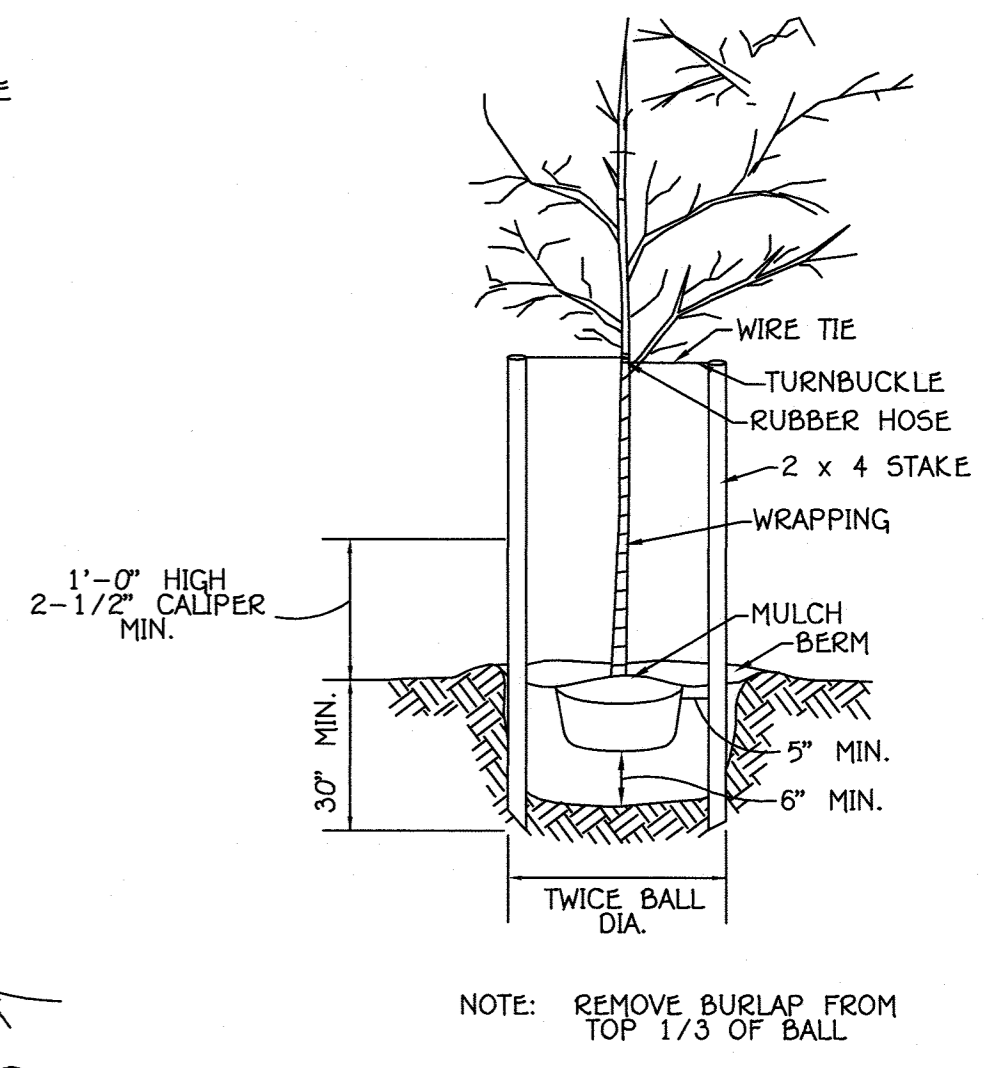
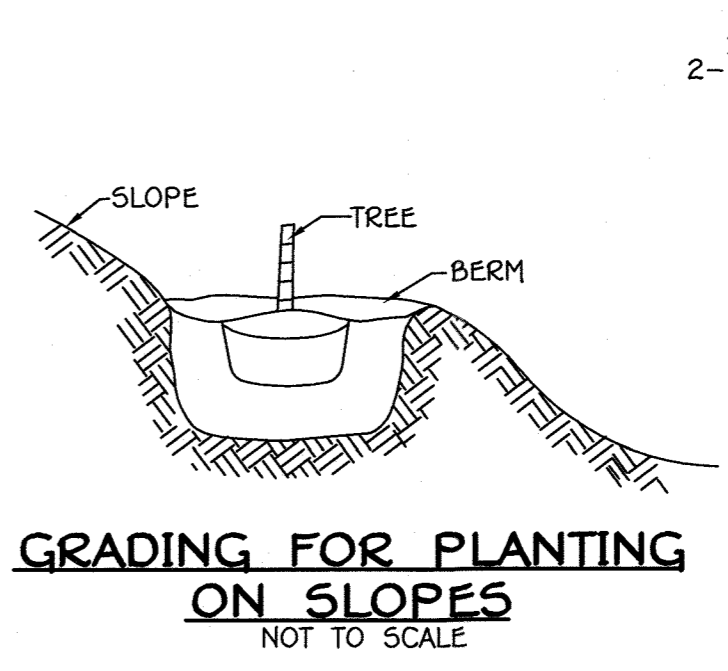
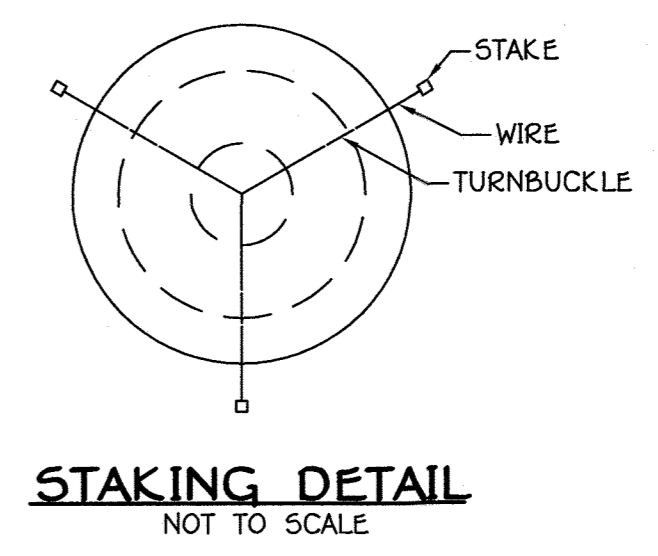
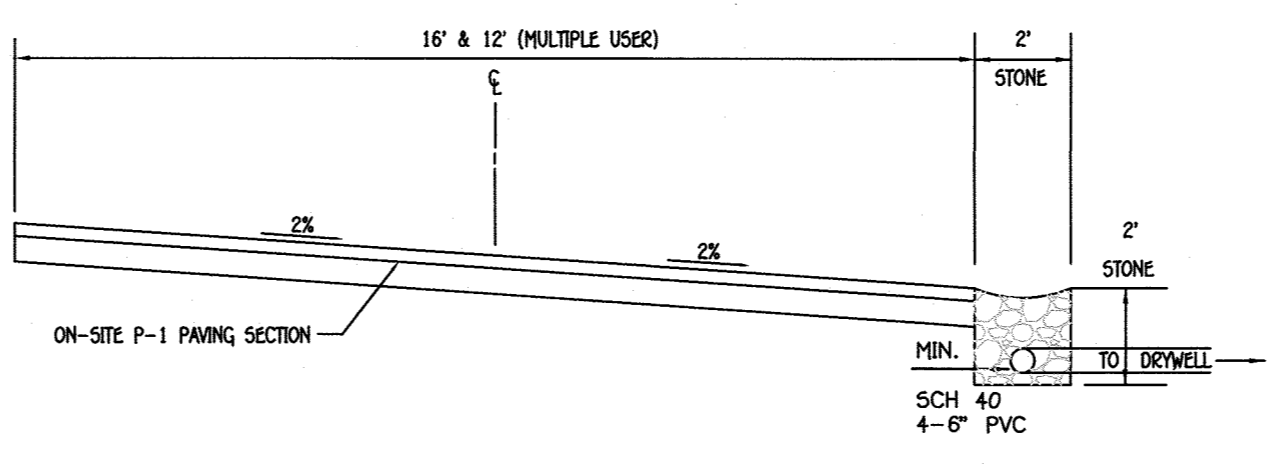
**PROFILE CL DRIVE**  
SCALE HORZ. 1" = 30'  
VERT. 1" = 3'



**DRY WELL DETAIL (M-5)**  
NOT TO SCALE  
DETAIL FOR DRIVEWAY DRYWELLS 2, 3 & 4



- NOTE:**
1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATION AND DETAILS FOR CONSTRUCTION.
  2. DRIVE MUST SLOPE TOWARD GRAVEL TRENCH.
  3. 4-6 INCH PERFORATED PVC PIPE PLACED IN GRAVEL ALONG EASTERN EDGE OF DRIVEWAY



**OWNER/DEVELOPER**  
ANI REAL ESTATE INVESTMENTS LLC  
ATTN: VIVIN MOTWANI  
301 ARGOSEY DRIVE  
CATHERSBURG, MARYLAND 20878  
240-597-2525

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development *etj* 8/1/20  
Chief, Development Engineering Division *JP* 8/31/20

NOTE: THIS PLAN SHEET IS NOT TO BE UTILIZED FOR CONSTRUCTION OR INSTALLATION OF SEDIMENT CONTROLS. THIS PLAN SHEET IS NOT TO BE USED TO OBTAIN A GRADING / BUILDING PERMIT.

**PROFESSIONAL CERTIFICATION**

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. 38886, EXPIRATION DATE: 01/12/2022.

*Stephen J. Smith* 8/8/20  
Signature Of Professional Engineer DATE



**DEVELOPER'S / BUILDER'S CERTIFICATE**

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

*W. M. (unclear)* 8/12/2020  
NAME DATE

**SUPPLEMENTAL PLAN**  
LANDSCAPE, FOREST CONSERVATION, TOPOGRAPHY & SOILS  
**GOLDBERG PROPERTY,**  
LOTS 5 AND 6

ZONED: R-20  
TAX MAP #18 GRID# 20 PARCEL #65  
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: AUGUST 2020  
SHEET 3 OF 3

F-16-095