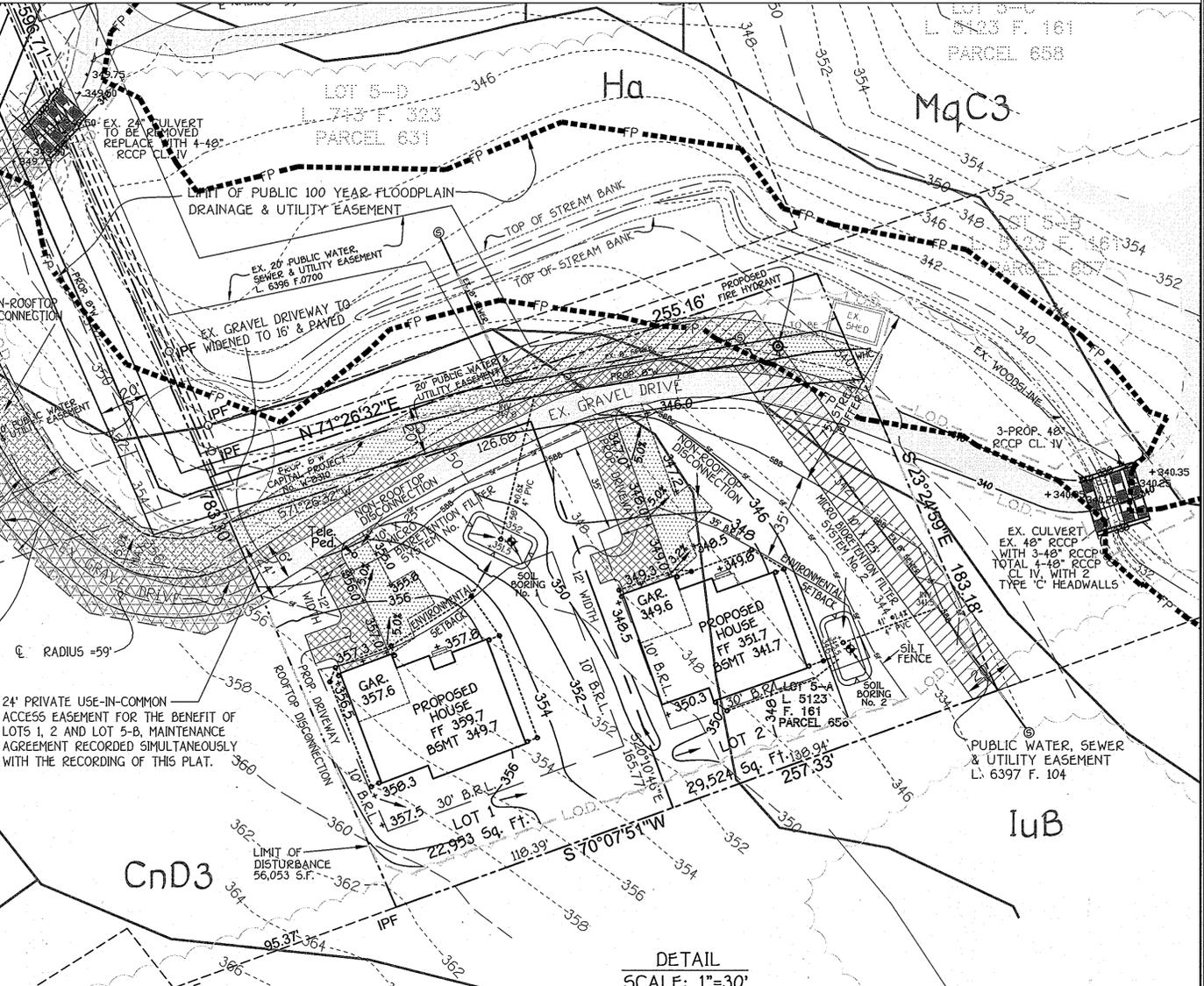
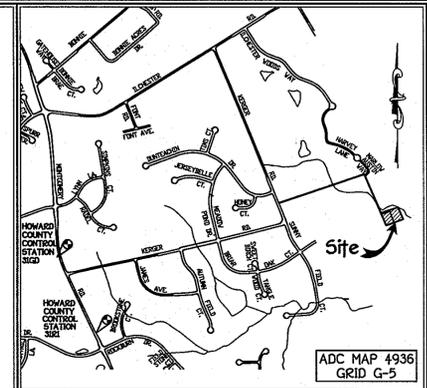


LEGEND

- 492- EXISTING 2' CONTOURS
- 490- EXISTING 10' CONTOURS
- 482- PROPOSED CONTOUR
- SHEET FLOW (5% MAX.)
- DISCONNECTED IMPERVIOUS AREA
- DISCONNECTION RECEIVING AREA
- SPECIMEN TREE
- L.O.D. LIMIT OF DISTURBANCE (L.O.D.)
- STREAM AND TOP OF BANK
- 75' TOP OF STREAM BANK BUFFER
- LIMIT OF 100 YEAR FLOODPLAIN DRAINAGE & UTILITY EASEMENT
- ▨ PAVING TO BE ADDED
- ▨ PROPOSED RELOCATED 24" PRIVATE INGRESS/EGRESS EASEMENT TO SERVE R150 PROPERTY, LOTS 1 AND 2, WERTZ SUBDIVISION AND TAX PARCEL 657
- ▨ PRIVATE STORMWATER MANAGEMENT DISCONNECTION CREDIT EASEMENT

SOILS LEGEND

SOIL	NAME	CLASS
AuA2	AuA2 gravelly loam, 1 to 5 percent slopes, moderately eroded	B
BuA2	BuA2 gravelly loam, 1 to 5 percent slopes, moderately eroded	C
CnA2	CnA2 gravelly loam, 0 to 15 percent slopes, severely eroded	C
CnB2	CnB2 gravelly loam, 0 to 15 percent slopes, moderately eroded	C
CnB3	CnB3 gravelly loam, 1 to 5 percent slopes, moderately eroded	C
CnB4	CnB4 gravelly loam, 3 to 15 percent slopes, severely eroded	C
EnA2	EnA2 gravelly loam, 1 to 5 percent slopes, moderately eroded	D
EnB2	EnB2 gravelly loam, 3 to 15 percent slopes, severely eroded	D
EnB3	EnB3 gravelly loam, 3 to 15 percent slopes, moderately eroded	D
EnB4	EnB4 gravelly loam, 3 to 15 percent slopes, severely eroded	D
EnC2	EnC2 gravelly loam, 3 to 15 percent slopes, moderately eroded	D
EnC3	EnC3 gravelly loam, 3 to 15 percent slopes, severely eroded	D
EnC4	EnC4 gravelly loam, 3 to 15 percent slopes, severely eroded	D
LuB	LuB gravelly loam, 1 to 5 percent slopes	D
MpB2	MpB2 gravelly loam, 1 to 5 percent slopes	D
MpB3	MpB3 gravelly loam, 1 to 5 percent slopes	D
MpC2	MpC2 gravelly loam, 1 to 5 percent slopes	D
MpC3	MpC3 gravelly loam, 1 to 5 percent slopes	D
MpC4	MpC4 gravelly loam, 1 to 5 percent slopes	D
MpD2	MpD2 gravelly loam, 1 to 5 percent slopes	D
MpD3	MpD3 gravelly loam, 1 to 5 percent slopes	D
MpD4	MpD4 gravelly loam, 1 to 5 percent slopes	D
MpE2	MpE2 gravelly loam, 1 to 5 percent slopes	D
MpE3	MpE3 gravelly loam, 1 to 5 percent slopes	D
MpE4	MpE4 gravelly loam, 1 to 5 percent slopes	D
MpF2	MpF2 gravelly loam, 1 to 5 percent slopes	D
MpF3	MpF3 gravelly loam, 1 to 5 percent slopes	D
MpF4	MpF4 gravelly loam, 1 to 5 percent slopes	D
MpG2	MpG2 gravelly loam, 1 to 5 percent slopes	D
MpG3	MpG3 gravelly loam, 1 to 5 percent slopes	D
MpG4	MpG4 gravelly loam, 1 to 5 percent slopes	D
MpH2	MpH2 gravelly loam, 1 to 5 percent slopes	D
MpH3	MpH3 gravelly loam, 1 to 5 percent slopes	D
MpH4	MpH4 gravelly loam, 1 to 5 percent slopes	D
MpI2	MpI2 gravelly loam, 1 to 5 percent slopes	D
MpI3	MpI3 gravelly loam, 1 to 5 percent slopes	D
MpI4	MpI4 gravelly loam, 1 to 5 percent slopes	D
MpJ2	MpJ2 gravelly loam, 1 to 5 percent slopes	D
MpJ3	MpJ3 gravelly loam, 1 to 5 percent slopes	D
MpJ4	MpJ4 gravelly loam, 1 to 5 percent slopes	D
MpK2	MpK2 gravelly loam, 1 to 5 percent slopes	D
MpK3	MpK3 gravelly loam, 1 to 5 percent slopes	D
MpK4	MpK4 gravelly loam, 1 to 5 percent slopes	D
MpL2	MpL2 gravelly loam, 1 to 5 percent slopes	D
MpL3	MpL3 gravelly loam, 1 to 5 percent slopes	D
MpL4	MpL4 gravelly loam, 1 to 5 percent slopes	D
MpM2	MpM2 gravelly loam, 1 to 5 percent slopes	D
MpM3	MpM3 gravelly loam, 1 to 5 percent slopes	D
MpM4	MpM4 gravelly loam, 1 to 5 percent slopes	D
MpN2	MpN2 gravelly loam, 1 to 5 percent slopes	D
MpN3	MpN3 gravelly loam, 1 to 5 percent slopes	D
MpN4	MpN4 gravelly loam, 1 to 5 percent slopes	D
MpO2	MpO2 gravelly loam, 1 to 5 percent slopes	D
MpO3	MpO3 gravelly loam, 1 to 5 percent slopes	D
MpO4	MpO4 gravelly loam, 1 to 5 percent slopes	D
MpP2	MpP2 gravelly loam, 1 to 5 percent slopes	D
MpP3	MpP3 gravelly loam, 1 to 5 percent slopes	D
MpP4	MpP4 gravelly loam, 1 to 5 percent slopes	D
MpQ2	MpQ2 gravelly loam, 1 to 5 percent slopes	D
MpQ3	MpQ3 gravelly loam, 1 to 5 percent slopes	D
MpQ4	MpQ4 gravelly loam, 1 to 5 percent slopes	D
MpR2	MpR2 gravelly loam, 1 to 5 percent slopes	D
MpR3	MpR3 gravelly loam, 1 to 5 percent slopes	D
MpR4	MpR4 gravelly loam, 1 to 5 percent slopes	D
MpS2	MpS2 gravelly loam, 1 to 5 percent slopes	D
MpS3	MpS3 gravelly loam, 1 to 5 percent slopes	D
MpS4	MpS4 gravelly loam, 1 to 5 percent slopes	D
MpT2	MpT2 gravelly loam, 1 to 5 percent slopes	D
MpT3	MpT3 gravelly loam, 1 to 5 percent slopes	D
MpT4	MpT4 gravelly loam, 1 to 5 percent slopes	D
MpU2	MpU2 gravelly loam, 1 to 5 percent slopes	D
MpU3	MpU3 gravelly loam, 1 to 5 percent slopes	D
MpU4	MpU4 gravelly loam, 1 to 5 percent slopes	D
MpV2	MpV2 gravelly loam, 1 to 5 percent slopes	D
MpV3	MpV3 gravelly loam, 1 to 5 percent slopes	D
MpV4	MpV4 gravelly loam, 1 to 5 percent slopes	D
MpW2	MpW2 gravelly loam, 1 to 5 percent slopes	D
MpW3	MpW3 gravelly loam, 1 to 5 percent slopes	D
MpW4	MpW4 gravelly loam, 1 to 5 percent slopes	D
MpX2	MpX2 gravelly loam, 1 to 5 percent slopes	D
MpX3	MpX3 gravelly loam, 1 to 5 percent slopes	D
MpX4	MpX4 gravelly loam, 1 to 5 percent slopes	D
MpY2	MpY2 gravelly loam, 1 to 5 percent slopes	D
MpY3	MpY3 gravelly loam, 1 to 5 percent slopes	D
MpY4	MpY4 gravelly loam, 1 to 5 percent slopes	D
MpZ2	MpZ2 gravelly loam, 1 to 5 percent slopes	D
MpZ3	MpZ3 gravelly loam, 1 to 5 percent slopes	D
MpZ4	MpZ4 gravelly loam, 1 to 5 percent slopes	D



APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 3/29/12
CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 2/26/12
CHIEF, DEVELOPMENT ENGINEERING DIVISION

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 481-2855

OWNER/DEVELOPER
ROBERT AND PATRICIA WERTZ
2959 KERGER ROAD
ELICOTT CITY, MARYLAND 21043-7013

SURVEYOR CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 10692, EXPIRATION DATE: 12/13/13.

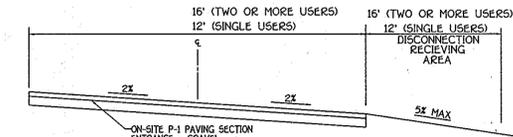
[Signature]
DATE: 1/30/12

SUPPLEMENTAL PLAN
LANDSCAPE, FOREST CONSERVATION,
STORMWATER MANAGEMENT, TOPOGRAPHY AND SOILS
WERTZ PROPERTY
Lots 1 And 2
A Resubdivision Of Lot 5-A
Parcel 656, Liber 5123, Folio 161
TAX MAP #31 PARCEL 656
FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
ZONED: R-20
SCALE: AS SHOWN DATE: JANUARY 27, 2012
SHEET 1 OF 2

F-11-070

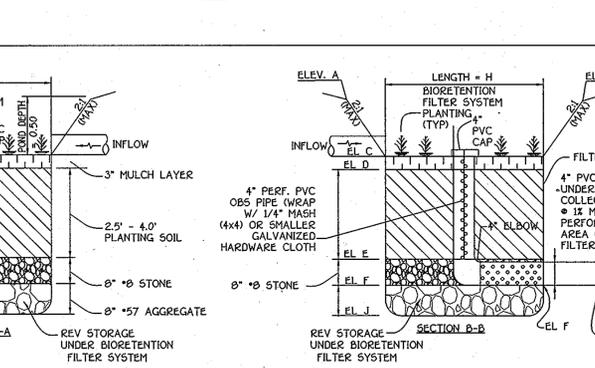
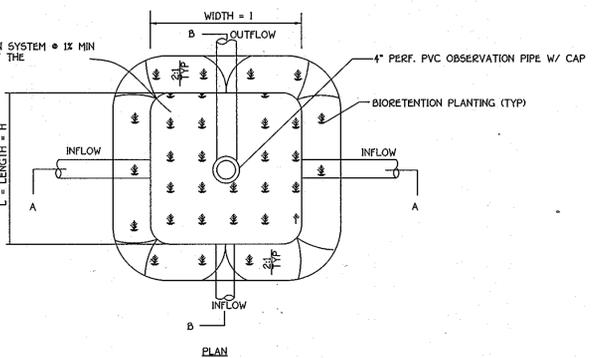
General Notes Continued:

- This Plan is subject to W-11-167 which the Planning Director on September 13, 2011 Approved A Request To Waive Section 16.16(a)(2)(D) - Grading, Removal Of Vegetative Cover And Trees, Paving And New Structures Shall Not Be Permitted Within 75 Feet Of A Perennial Stream Bank In Residential Zoning Districts To Allow For Two Driveway Connections And Associated Grading For Proposed Lots 1 And 2 Onto An Existing Use-In-Common Driveway, And Section 16.120(c)(2)(D) - All 5FD Lots Shall Have Minimum Frontage Of 20 Feet On Approved Public Streets. Subject To The Following Conditions:
 - Compliance With All Comments Generated With The Review Of The ECP-11-006 And Subdivision PBT, F-11-070
 - Compliance With The Attached Development Engineering Division Comments
 - The Building Envelope Must Maintain A Minimum 35' Setback From The Edge Of The Existing 75' Stream Bank Buffer As Depicted On The Waiver Plan Exhibit
 - No Grading, Removal Of Vegetative Cover And Trees, Paving And New Structures Are Permitted Within The Stream And 75' Stream Buffer Except For The Required Driveway Improvements And Associated Grading As Depicted On The Waiver, Petition Plan Exhibit
 - Access To The Wertz Property, Lots 1 And 2 Will Be Through Mario Austin Way And Harvey Lane As Shown On The Waiver Plan Exhibit And F-11-070.
 - The Applicant Shall Revise The Location For The Existing Private Access Easement To Be Consistent With The Use-In-Common Driveway. This Subdivision Is A Minor Subdivision And Is Exempt From Providing An APFO Traffic Report.
- Trash And Recycling Collection Will Be At The Intersection Of Mario Austin Way And Harvey Lane Within 5 Feet Of The County Roadway For Collection.
- The Private Use-In-Common Driveway Easement Recorded In Liber 991 At Folio 209 Within Tax Parcel No. 629 (Kiss Property) Will Be Modified To Contain The Final As-Built Driveway.
- Plan Subject To A Waiver Approved On August 31, 2011 To Design Manual, Volume III, Section 2.6.A Which Requires A Residential Use-In-Common Driveway Serving Single Family Houses With No More Than Six (6) Dwelling Units And Section 2.6.B Which Requires That A Public Access Place Shall Be Provided If A Use-In-Common Driveway Crosses A 100 Year Floodplain And Section 2.6.B, Which Requires That A Use-In-Common Driveway Have A 16' Pavement Width To Allow For A Use-In-Common Driveway Reduced Pavement Width Of 14' From The Stream Crossing North To Harvey Lane Subject To:
 - A 16' Use-In-Common Driveway On-Site And On The Adjoining Tax Parcel No. 629 (Kiss Property) Built By The Site Owner/Developer.
 - The Public Water Line W-4303 Is Installed To Serve The Wertz Property.
 - The Proposed 48-Inch Culverts And Their Associated Grading Earth Work, Bonded Under F-11-070.

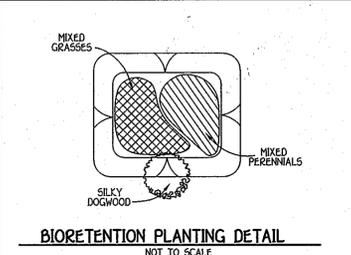


TYPICAL PRIVATE DRIVE CROSS SLOPE SECTION
NOT TO SCALE

BIORETENTION FILTER	A	B	C	D	E	F	G	H	I	J
1	352.00	352.00	351.50	351.25	348.75	348.00	347.00	10'	25'	347.45
2	346.00	346.00	345.50	345.25	342.75	342.00	341.50	10'	25'	341.63



BIORETENTION FILTER SYSTEM DETAIL M-6
NOT TO SCALE



- BIORETENTION PLANTING DETAIL**
NOT TO SCALE
- MIXED PERENNIALS 5'-6' OUT-LEAK CONEFORMER TRANSPARENT ASTER
 - MIXED GRASSES 5'-6' TUFTED BROOM SEDGE SWITCH GRASS
 - SILKY DOGWOOD
- NOTE: PLANT MATERIAL MUST COVER AT LEAST 50% OF THE SURFACE AREA OF THE RAINGARDEN

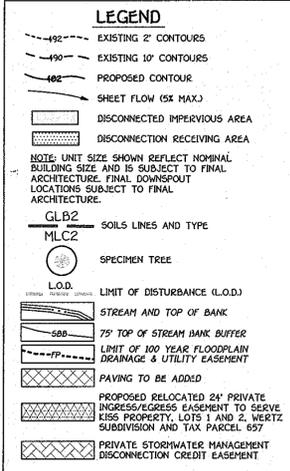
QUANTITY	NAME	MAXIMUM SPACING (FT)
45	MIXED PERENNIALS	1 FT.
45	MIXED GRASSES	1 FT.
1	SILKY DOGWOOD	PLANT AWAY FROM INFLOW LOCATION

PRIVATE BIORETENTION M-6 OPERATION & MAINTENANCE SCHEDULE

- ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING.
- SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDER BEYOND TREATMENT. TREATMENT OF ALL DISEASED TREES AND SHRUBS AND REPLACEMENT OF ALL DEFICIENT STAKES AND WIRES.
- MULCH SHALL BE INSPECTED EACH SPRING. REMOVE PREVIOUS MULCH LAYERS BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS.
- SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.

OPERATION & MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DISCONNECTION OF NONROOFTOP RUNOFF (N-2)

- MAINTENANCE OF AREAS RECEIVING DISCONNECTION RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE AREAS RECEIVING RUNOFF SHOULD BE PROTECTED FROM FUTURE COMPACTION OR DEVELOPMENT OF IMPERVIOUS AREA. IN COMMERCIAL AREAS, FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.
- PREVIOUS DEPARTMENT OF PLANNING AND ZONING FILE NUMBER: ECP-11-006.
- OPEN SPACE REQUIREMENTS ARE PROVIDED BY A Fee-In-Lieu Payment Of \$1,500.00.
- LANDSCAPING FOR LOTS 1 AND 2 WILL BE PROVIDED AT THE SITE DEVELOPMENT PLAN STAGE.
- THIS PLAN IS EXEMPT FROM FOREST CONSERVATION PER SECTION 16.1202(b)(1)(VIII) OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION MANUAL SINCE IT IS A MINOR SUBDIVISION THAT CREATES ONE ADDITIONAL LOT AND HAS NO FURTHER SUBDIVISION POTENTIAL.
- WATER QUALITY VOLUME (WQV) AND GROUNDWATER RECHARGE VOLUME (GRV) STORMWATER MANAGEMENT REQUIREMENTS FOR THIS SITE WILL BE MET BY APPLYING THE CRITERIA FOUND IN CHAPTER 5 "ENVIRONMENTAL SITE DESIGN", SPECIFICALLY SECTION N-1 "DISCONNECTION OF ROOFTOP RUNOFF" AND THE INDIVIDUAL DRIVEWAYS FOR THE HOUSES WILL BE DISCONNECTED IN ACCORDANCE WITH SECTION N-2 "DISCONNECTION OF NONROOFTOP RUNOFF", WHERE CREDIT CANNOT BE TAKEN FOR DISCONNECTION, BECAUSE THE DRAINAGE AREA EXCEEDS 500 SQ.FT. BIORETENTION FILTER SYSTEMS (M-6) HAVE BEEN USED. THESE METHODS WILL REFLECT THE "WOODS IN GOOD CONDITION" RUNOFF CURVE NUMBER OF 70 FOR THIS SITE. THEREFORE, CHANNEL PROTECTION VOLUME (CPV) IS NOT REQUIRED. ALSO, OVERBANK FLOOD PROTECTION (OFP) AND EXTREME FLOOD VOLUME (EFV) WERE NOT ADDRESSED BECAUSE DRAINAGE FROM THE SITE DOES NOT DRAIN INTO ANY OF THE PREDETERMINED AREAS DEFINED BY THE FEBRUARY 13, 2000, BULLETIN ISSUED BY THE DEVELOPMENT ENGINEERING DIVISION.
- THE SWM MEASURES ILLUSTRATED ON THIS PLAN ARE CONCEPTUAL AS SPECIFIC HOUSE CONFIGURATIONS HAVE NOT YET BEEN ESTABLISHED. SPECIFIC SWM MEASURES WILL BE PROVIDED WITH THE ASSOCIATED SITE DEVELOPMENT PLAN WHEN FINAL DESIGN DETAILS CAN BE PROVIDED.
- THIS DEVELOPMENT IS DESIGNED TO BE IN ACCORDANCE WITH SECTION 16.127 - RESIDENTIAL INFILL DEVELOPMENT - OF SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. THE DEVELOPER OF THIS PROJECT SHALL CREATE COMPATIBILITY WITH THE EXISTING NEIGHBORHOOD THROUGH THE USE OF ENHANCED PERIMETER LANDSCAPING, BERRMS, FENCES, SIMILAR HOUSING UNIT TYPES AND THE DIRECTIONAL ORIENTATION OF THE PROPOSED HOUSES.
- APPROVAL OF A SITE DEVELOPMENT PLAN IS REQUIRED FOR THE DEVELOPMENT OF LOTS 1, AND 2 PRIOR TO THE ISSUANCE OF ANY GRADING OR BUILDING PERMITS FOR NEW HOUSE CONSTRUCTION IN ACCORDANCE WITH SECTION 16.155 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
- A COMMUNITY MEETING WAS CONDUCTED ON MARCH 25, 2010 FOR THE PURPOSE OF THE DEVELOPER TO PROVIDE INFORMATION TO THE COMMUNITY REGARDING THE PROPOSED RESIDENTIAL DEVELOPMENT AND TO ALLOW THE COMMUNITY TO ASK QUESTIONS AND TO MAKE COMMENTS, PER SECTION 16.126(a), OF THE SUBDIVISION REGULATIONS.
- ELEVATIONS ARE BASED ON FIELD RUN TOPOGRAPHIC SURVEY PERFORMED JULY, 2010 BY FISHER, COLLINS & CARTER, INC.
- PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
- SUBDIVISION WILL BE SERVED BY BOTH PUBLIC WATER AND PUBLIC SEWER.
- WATER AND SEWER SERVICE TO THESE LOTS WILL BE GRANTED UNDER THE PROVISIONS OF SECTION 16.129 OF THE HOWARD COUNTY CODE.
- PUBLIC WATER AND SEWAGE ALLOCATIONS WILL BE GRANTED AT TIME OF ISSUANCE OF THE BUILDING PERMIT IF CAPACITY IS AVAILABLE AT THAT TIME.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAMS, OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS.
- NO CLEARING, EXCAVATING, FILLING, ALTERING DRAINAGE, OR IMPERVIOUS PAVING, MAY OCCUR ON LAND LOCATED IN A FLOODPLAIN UNLESS REQUIRED OR AUTHORIZED BY THE DEPARTMENT OF PLANNING AND ZONING UPON THE ADVICE OF THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, THE DEPARTMENT OF PUBLIC WORKS, THE DEPARTMENT OF RECREATION AND PARKS, THE SOIL CONSERVATION DISTRICT, OR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT. ANY PROPOSED CONSTRUCTION OF A STRUCTURE LOCATED WITHIN A FLOODPLAIN SHALL BE SUBJECT TO THE REQUIREMENTS OF THE HOWARD COUNTY BUILDING CODE.
- LIMIT OF DISTURBANCE 31,721 S.F.
- WETLAND DETERMINATION PROVIDED ON MAY 19, 2010 BY ECO-SCIENCE PROFESSIONALS.



LOT No.	ADDRESS	DISCONNECTION OF NON-ROOFTOP RUNOFF (N-2) (NUMBER)	MICRO BIO-RETENTION (M-6) (NUMBER)
1		Y - (Driveway)	No. 1
2		Y - (Driveway)	No. 2

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] 3/29/12 DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 1000 SOUTH QUAKER OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21114
 410-461-2899

OWNER/DEVELOPER
 ROBERT AND PATRICIA WERTZ
 5293 KERGER ROAD
 ELLICOTT CITY, MARYLAND 21043-7013

Eco-Science Professionals, Inc.
 CONSULTING ECOLOGISTS

SURVEYOR 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. 10692, EXPIRATION DATE: 12/13/13.

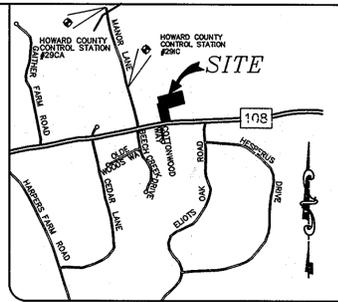
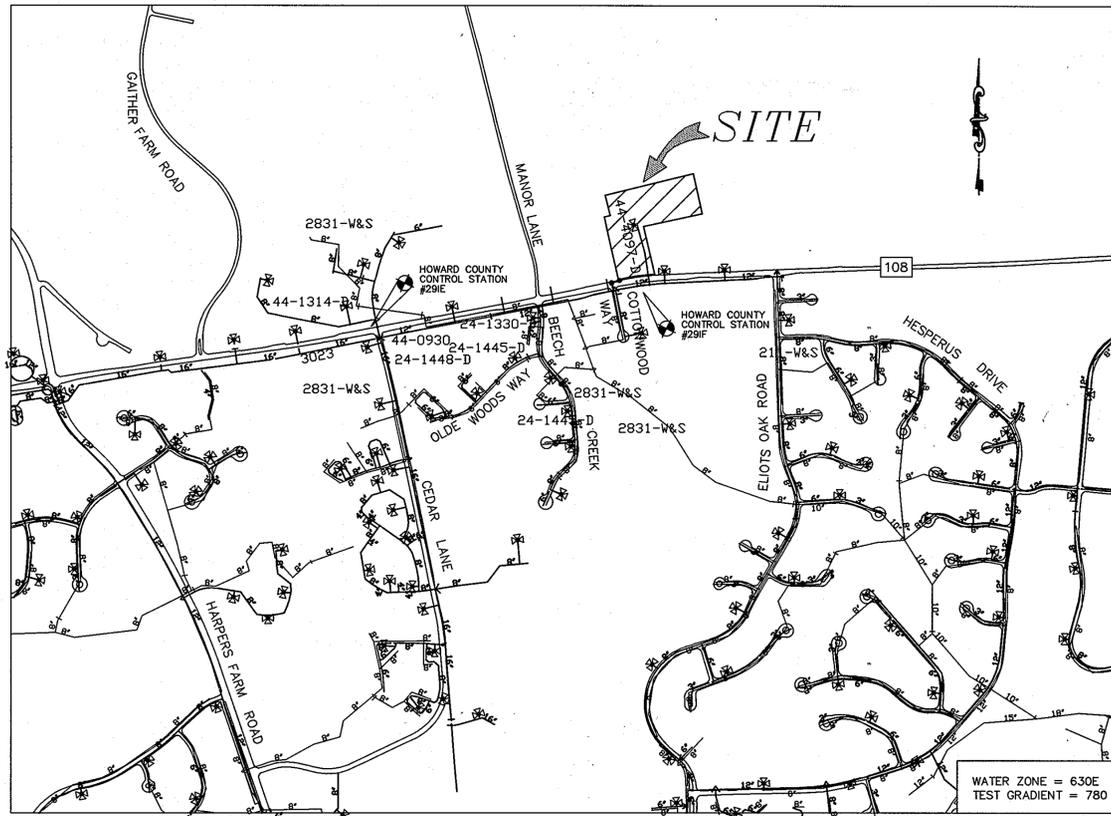
[Signature] 1/30/12 DATE
 JOHN P. CANOLES

SUPPLEMENTAL PLAN
 LANDSCAPE, FOREST CONSERVATION,
 STORMWATER MANAGEMENT, TOPOGRAPHY AND SOILS
WERTZ PROPERTY
 Lots 1 And 2
 A Resubdivision Of Lot 5-A
 Parcel 656, Liber 5123, Folio 161
 TAX MAP #31 PARCEL 656
 FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 ZONED: R-20
 SCALE: 1"=30' DATE: JANUARY 27, 2012
 SHEET 2 OF 2

F-11-070

QUANTITY TABLE

ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
STANDARD MH	2	2 EA.		FREDRICK PRE-CAST
8" SEWER MAIN	240 L.F.	251 L.F.	SDR-35	NORTH AMERICAN/FERGUSON
6" SEWER HOUSE CONNECTION	8 L.F.	7 L.F.	SDR-35	NORTH AMERICAN/FERGUSON
# SEWER HOUSE CONNECTIONS	1	1 6x6	PRE-CAST	PRISM PRECAST/FERGUSON
# MH SEWER HOUSE CONNECTIONS	1			
NAME OF UTILITY CONTRACTOR: J & A CONSTRUCTION SERVICES, INC.				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE				



VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON FEBRUARY 2003 BY WINGS AERIAL MAPPING SUPPLEMENTED BY TOPOGRAPHIC SURVEY PERFORMED BY MILDENBERG BOENDER & ASSOCIATES IN DECEMBER 2007.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS:
THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/'91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 291E AND NO. 291F. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE HO.CO. GEODETIC CONTROL STA. 291E & 291F.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEYS OWNED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATIONS OF THE TEST PITS. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

AT&T	1-800-252-1133
BGE(CONSTRUCTION SERVICES)	410-850-4820
BGE(EMERGENCY)	410-685-1400
BUREAU OF UTILITIES	410-315-4900
COLONIAL PIPELINE CO.	410-785-1390
STATE HIGHWAY ADMINISTRATION	410-531-5533
VERIZON	1-800-743-0033/410-224-9210
MISS UTILITY	1-800-257-7777

- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.11(a) OF THE HOWARD COUNTY CODE.

SEWER

- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATED THAT THE CELLAR CANNOT BE SERVED.

INDEX OF DRAWINGS

NO.	DESCRIPTION
1	TITLE SHEET
2	SEWER PLAN AND PROFILE

OWNER/DEVELOPER
DAR AL TAQWA, INC.
10740 ROUTE 108
ELICOTT CITY, MD 21042
(410) 997-5711

VICINITY MAP

SCALE: 1" = 600'

WELL AND SEPTIC TABLE

LOT NUMBER	STREET ADDRESS	WATER	SEWER
PARCEL 12	10740 ROUTE 108, ELICOTT CITY, MD 21042	PUBLIC	ON SITE PRIVATE SEPTIC SYSTEM (TO BE ABANDONED)

TYPE OF BUILDING	COMMERCIAL
No. OF UNITS	1
No. OF WATER HOUSE CONNECTION	0
No. OF SEWER HOUSE CONNECTIONS	1
DRAINAGE AREA	LITTLE PATUXENT
TREATMENT PLANT	LITTLE PATUXENT WATER RECLAMATION PLANT

CONTRACT NO.: 24-4655-D
DAR AL-TAQWA
COMMUNITY RELIGIOUS CENTER
SEWER MAIN EXTENSION
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY 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.

Muntaz A. Taqwa 04/23/2010
DEVELOPER'S SIGNATURE DATE
DAR AL TAQWA INCORPORATED
DEVELOPER'S NAME

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.: 17942, EXPIRATION DATE: 9/3/10

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT 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.

Jacob Hikmat 5/5/10
ENGINEER'S SIGNATURE DATE
R. JACOB HIKMAT
ENGINEER'S NAME

PLAN REFERENCE NUMBERS:
SDP-02-04

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

John K. Robertson 5/23/10
HOWARD SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors

8800 Deerpath Road, Suite 150, Ellicott City, Maryland 21075
(410) 997-0286 Ball (410) 997-0288 Fax



engineering	MMT
illustration	MMT
approval	RJH
project	96098
date	APR 2010

TITLE SHEET

600' SCALE MAP NO. 29 BLOCK NO. 11

DAR AL-TAQWA
COMMUNITY RELIGIOUS CENTER
CONTRACT NO.: 24-4655-D
SECOND ELECTION DISTRICT
HOWARD COUNTY

scale
AS SHOWN

1 of 2