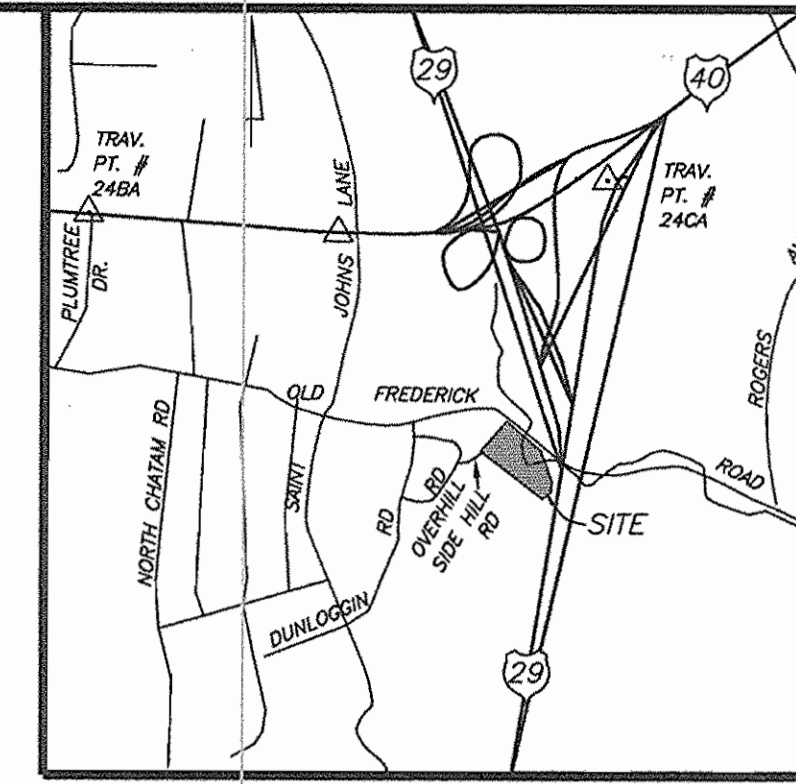
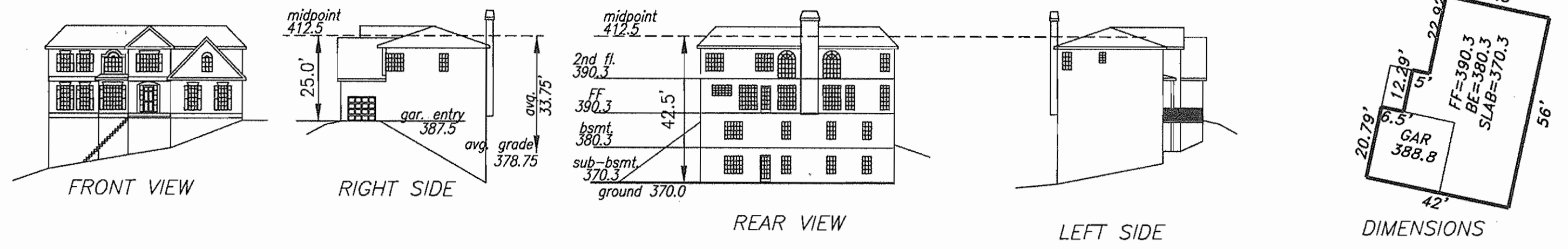


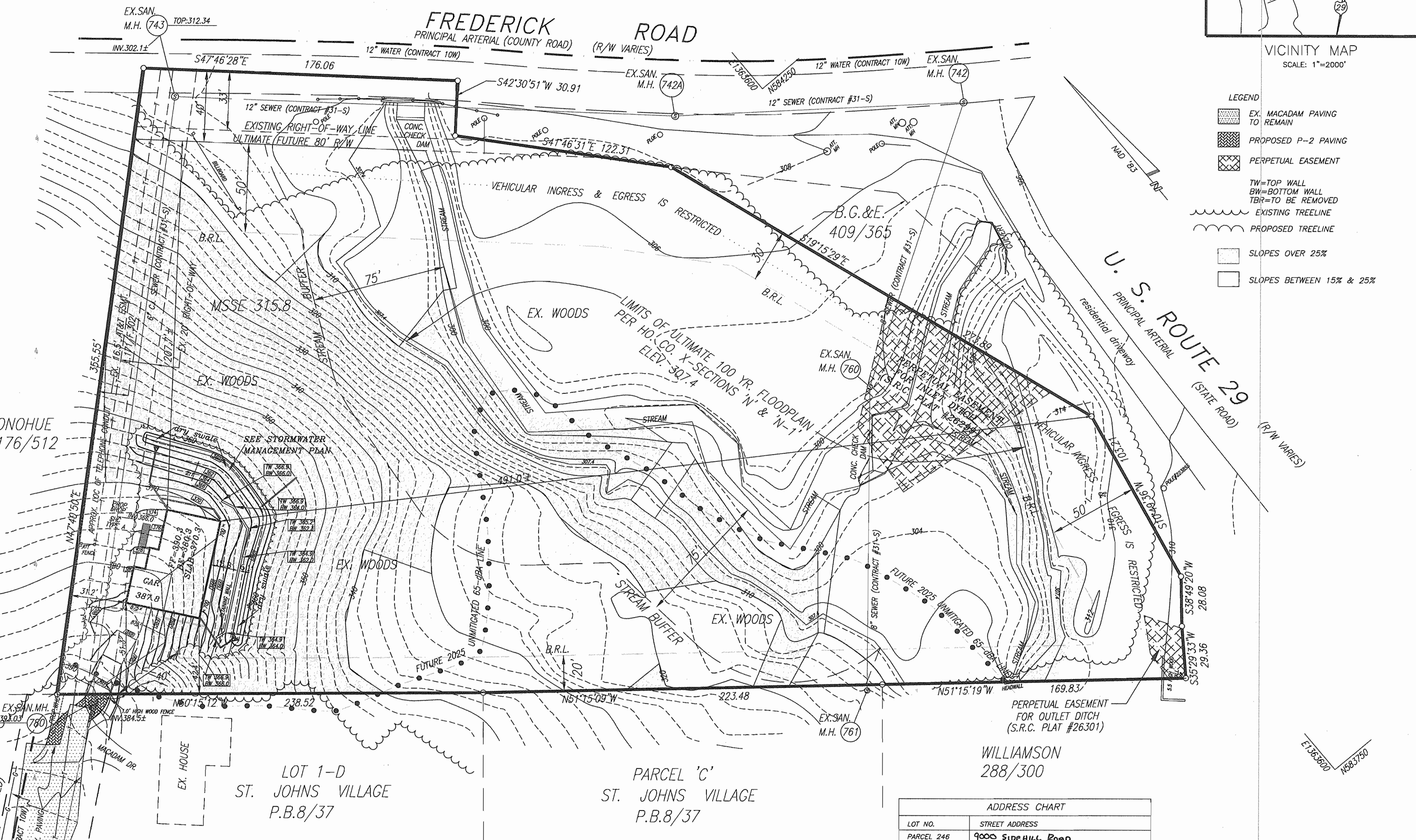
GENERAL NOTES (cont.)

31. THIS PLAN IS SUBJECT TO WP-07-044, APPROVED ON DECEMBER 12, 2006, WHICH WAIVED THE REQUIREMENTS OF SECTION 16.120.(b)(6)(i) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS REQUIRING REAR YARD NOISE LEVELS NOT EXCEEDING STANDARDS SET IN THE DESIGN MANUAL. THIS WAIVER APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:
 A. ADDING THIS NOTE TO THIS PLAN: "THE HOUSE LOCATION SHOWN HEREON FALLS ENTIRELY WITHIN THE UNMITIGATED 65 dBA NOISE LINE."
 B. THE BUILDING MATERIALS USED IN CONSTRUCTION SHALL BE SUFFICIENT TO MITIGATE THE NOISE TO ACCEPTABLE H.L.D. STANDARDS. UPON COMPLETION OF THE STRUCTURE AN AS-BUILT INTERIOR SOUND SURVEY MUST BE SUBMITTED CERTIFYING THAT THE NOISE REQUIREMENTS HAVE BEEN OBTAINED.



GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 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 THE START OF CONSTRUCTION.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREETS AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- THE EXISTING TOPOGRAPHY SHOWN IS BASED ON A SURVEY BY SHANABERGER & LANE IN MARCH 2003 TIED TO MD 83 HOWARD COUNTY CONTROL STATIONS:
 HOWARD COUNTY MONUMENT NO. 248A EL.386.36
 HOWARD COUNTY MONUMENT NO. 24CA EL.399.04
 BENCHMARK: REBAR SET
 TRAVERSE NO. 2 EL. 310.91
 BENCHMARK: REBAR SET
 TRAVERSE NO. 3 EL. 308.14
- BEARINGS AND DISTANCES SHOWN HEREON ARE FROM A BOUNDARY SURVEY PERFORMED BY SHANABERGER & LANE IN MARCH OF 2003.
- WATER IS PUBLIC (CONTRACT #10W)
- SEWER IS PUBLIC (CONTRACT #31-S)
- STORMWATER MANAGEMENT IS PROVIDED BY A DRY SWALE AND A STONE-FILLED RESERVOIR BENEATH A DRY SWALE WILL BE USED IN THE TREATMENT OF THE WATER QUALITY VOLUME (WQV) AND EXTREME AND EXTREME FLOOD VOLUME (OF). RECHARGE VOLUME WILL BE MANAGED IN A STONE-FILLED RESERVOIR BENEATH THE DRY SWALE.
- EXISTING UTILITIES SHOWN HEREON WERE FIELD-LOCATED WHERE POSSIBLE, AND SHOWN PER AVAILABLE PLANS OF RECORD IN OTHER CASES.
- A WETLANDS INVESTIGATION WAS PERFORMED BY EXPLORATION RESEARCH, INC.
- FOREST STAND DELINEATION WAS PERFORMED BY EXPLORATION RESEARCH ON AUGUST 5, 2002.
- AREA OF PROPERTY: 3.7488 ACRES (PER MARCH, 2003 SURVEY BY SHANABERGER & LANE)
- THE SUBJECT PROPERTY IS ZONED R-20 PER THE 4/13/2004 COMPREHENSIVE ZONING PLAN.
- EXISTING USE: VACANT RESIDENTIAL LOT
- PROPOSED USE: 1 SINGLE FAMILY DETACHED RESIDENCE
- FLOOR SPACE:
 PROP. HOUSE: BSMT: 1514 S.F.
 SUB-BSM: 1514 S.F.
 FIRST FLOOR: 2009 S.F.
 SECOND FLOOR: 1884 S.F.
 TOTAL: 6921 S.F.
- BUILDING COVERAGE OF SITE: PROP. HOUSE - 2009sf/163,298sf = 1.23 %
- FOREST CONSERVATION REQUIREMENTS FOR THIS PROJECT ARE MET BY A DECLARATION OF INTENT DUE TO IT BEING A SINGLE LOT DISTURBING 9,865 SQ. FT OF FOREST (LESS THAN 40,000 SQ. FT.)
- SITE ANALYSIS DATA CHART:
 A. TOTAL PROJECT AREA: 163,297 S.F. OR 3.7488 ACRES ±
 B. LIMIT OF DISTURBED AREA: 10,123 S.F. OR 0.2324 AC. ±
 C. PRESENT ZONING DESIGNATION: R-20
 D. EXISTING AND PROPOSED USE: SINGLE FAMILY RESIDENTIAL
 E. FLOOR SPACE: PROPOSED (TOTAL) 6921 S.F.
 F. NUMBER OF PARKING SPACE REQUIRED & PROVIDED: 2 (1 in gar., 1 in drive)
 G. OPEN SPACE: NONE
 H. AREA OF RECREATIONAL OPEN SPACE: NONE
 I. BUILDING COVERAGE: 2009sf = 1.23%
 J. APPLICABLE DPZ FILE REFERENCES: NONE
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. CREDIT HAS BEEN TAKEN FOR EXISTING TREES ON THE SITE AND NO LANDSCAPING SURETY IS REQUIRED.
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY WILL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- DROP SHC ELEVATION SHOWN IS AT THE EDGE OF THE RIGHT-OF-WAY.
- FOR DRIVEWAY ENTRANCE DETAILS, REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOL. IV, STANDARD DETAIL R-8.06.
- IN ACCORDANCE WITH SECTION 128 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 3 FEET INTO THE FRONT OR REAR YARD SETBACK.
- NO CLEARING, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE REQUIRED WETLANDS, STREAMS, OR THEIR BUFFERS AND FOREST CONSERVATION EASEMENT AREAS.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE & OCCUPANCY PERMIT FOR ANY NEW DWELLING TO INSURE SAFE ACCESS FOR FIRE & EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
 * WIDTH: 12' (14' if serving more than one residence).
 * SURFACE: 6" of compacted crusher run base w/ tar & chip coating (1-1/2" min.).
 * GEOMETRY: Max. 14% grade, max. 10% grade change, and min. 45' turning radius.
 * STRUCTURES (culverts/bridges): capable of supporting 25 gross tons (H25 loading).
 * DRAINAGE ELEMENTS: capable of safely passing 100-yr. flood with no more than 1 foot depth over driveway surface.
 * MAINTENANCE: sufficient to insure all-weather use.
- THE 65 dBA NOISE CONTOUR LINE DRAWN ON THIS DEVELOPMENT PLAN IS ADVISORY AS REQUIRED BY THE HOWARD COUNTY DESIGN MANUAL, CHAPTER 5, REVISED FEB. 1992, AND CANNOT BE CONSIDERED TO EXACTLY LOCATE THE 65 dBA NOISE EXPOSURE. THE 65 dBA NOISE LINE WAS ESTABLISHED BY HOWARD COUNTY TO ALERT DEVELOPERS, BUILDERS, AND FUTURE BUYERS THAT AREAS BEYOND THIS THRESHOLD MAY EXCEED GENERALLY ACCEPTED NOISE LEVELS ESTABLISHED BY THE U.S. DEPT. OF HOUSING & URBAN DEVELOPMENT. A DESIGN MANUAL WAIVER AND A WAIVER OF THE SUBDIVISION REGULATION REQUIRING ON-SITE NOISE MITIGATION WITHIN THE BUILDING CURTLAGE HAVE BEEN REQUESTED DUE TO SEVERE SLOPE LIMITATIONS OF THE SITE. A.P.C. 11.17.1.06
- NO IMPROVEMENTS SHALL BE CONSTRUCTED OR PLACED WITHIN THE PUBLIC SEWER EASEMENT, WHICH WILL IMPEDER OR HINDER ACCESS TO THE SEWER MAIN. IMPROVEMENTS SUCH AS DECKS, HEAT PUMPS, FOUNDATION PLANTINGS, FENCING, AND TREES SHALL NOT BE PLACED WITHIN THE PUBLIC SEWER EASEMENT.
- A WAIVER OF SECTION 5.4.B.5. OF VOLUME II OF THE DESIGN MANUAL WAS GRANTED ON AUGUST 21, 2006, TO ALLOW CONSTRUCTION OF THE HOUSE LESS THAN 10 FEET FROM THE EDGE OF THE PUBLIC SEWER EASEMENT, AND TO ALLOW CONSTRUCTION OF THE DRIVEWAY OVER PART OF THE PUBLIC SEWER EASEMENT.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 [Signature] 6/25/06
 CHIEF, DEVELOPMENT ENGINEERING DIVISION, DATE
 [Signature] 6/23/07
 CHIEF, DIVISION OF LAND DEVELOPMENT, DATE
 [Signature] 6/28/07
 DIRECTOR, DATE

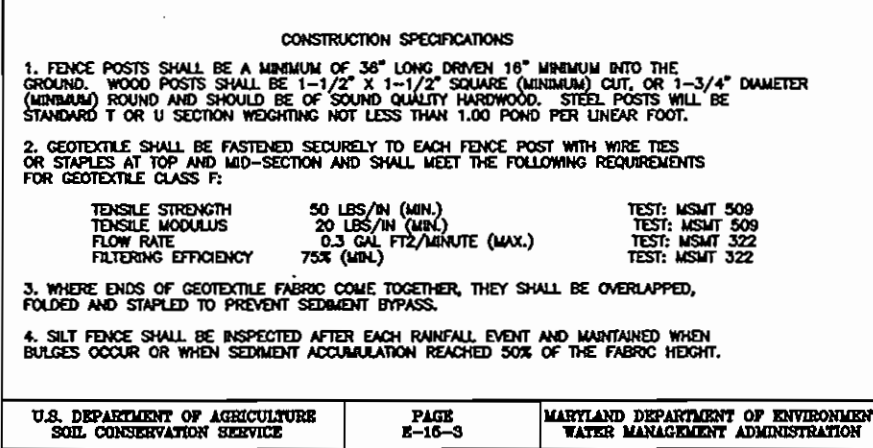
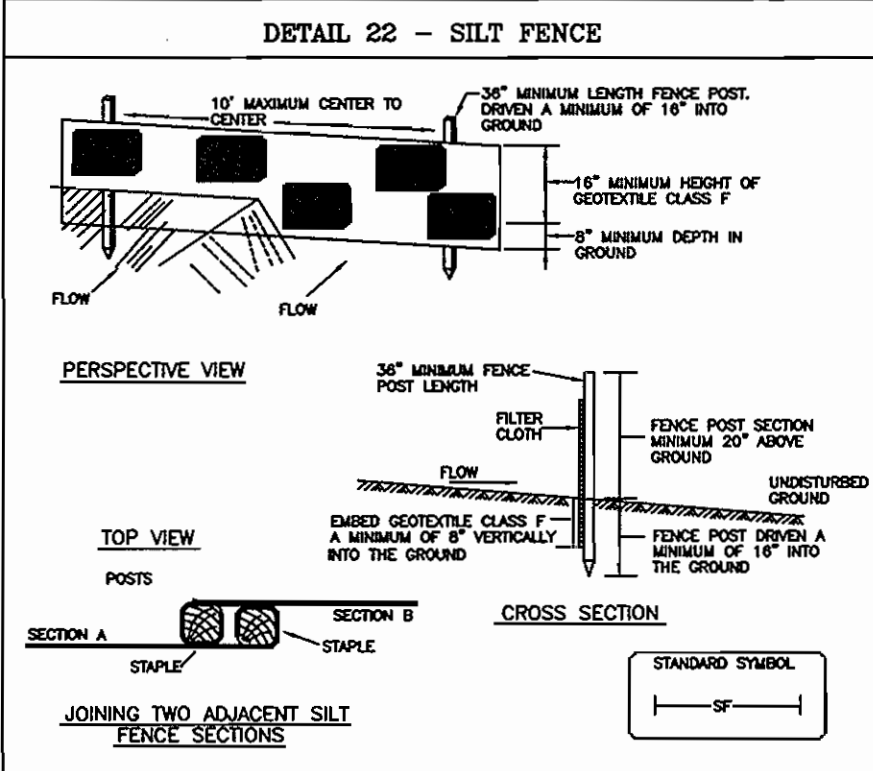
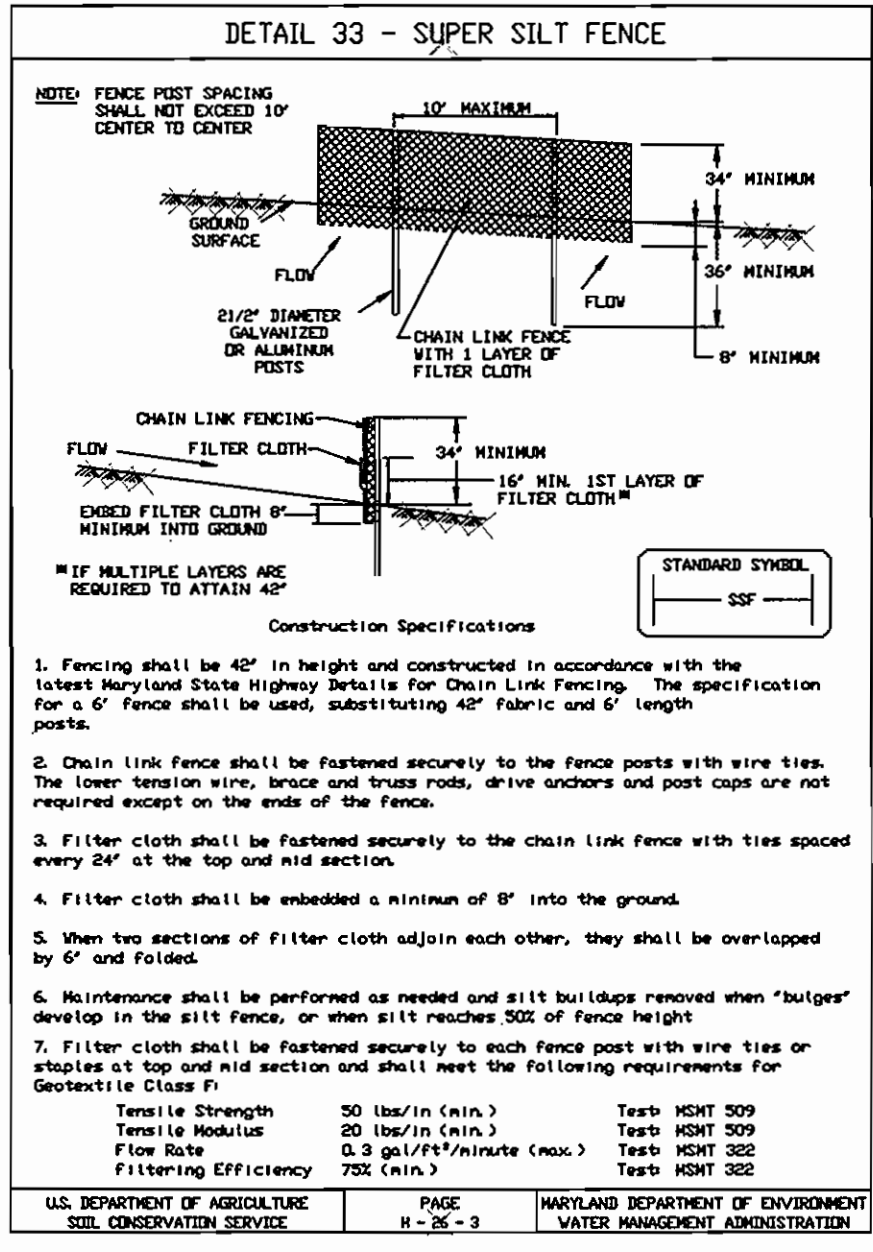
SHANABERGER & LANE
 8726 TOWN & COUNTRY BLVD.
 SUITE 201
 ELLICOTT CITY, MD, 21043
 (410)-461-9563



INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	PLAN VIEW
2	GRADING, EROSION & SEDIMENT CONTROL PLAN & DETAILS
3	STORMWATER MANAGEMENT PLAN
4	RETAINING WALL DETAILS
5	LANDSCAPING PLAN/SOILS MAP

BY	NO.	REVISION	DATE

OWNERS: JEFFREY & JANET HARMAN 13319 ELLIOT DRIVE CLARKSVILLE, MD 21029		BUILDER: JEFF HARMAN BUILDERS 13319 ELLIOT DRIVE CLARKSVILLE, MD 21029		SUBDIVISION NAME SIDE HILL ROAD PROPERTY L/1 7149/487 GRID # 11 ZONE R-20 WATER CODE: E34		SECTION/AREA 24 ELECT. DISTRICT SECOND SEWER CODE: 1402800		LOT/PARCEL 24 CENSUS TRACT 602306			
DESIGNED: GSS				DRAWN: GSS				CHECKED: GSS			
DATE: 10/19/2006				SITE DEVELOPMENT PLAN SIDEHILL ROAD PROPERTY PROPERTY OF JEFFREY & JANET HARMAN				SCALE: 1"=30'			
				TAX MAP 24, GRID 11, PARCEL 246 DEED REFERENCE: 7149/487				JOB NO. 0303REVSDP1			
				SECOND ELECTION DISTRICT SCALE: 1" = 30'				HOWARD COUNTY, MD. OCTOBER 19, 2006			
				SDP-06-130				1 OF 5			



SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1
 - 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT CONTROL STRUCTURES MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETERS IN ACCORDANCE WITH VOL. 1, CHAPTER 7, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE, IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOIL, TEMPORARY SEEDING AND MULCHING (SEC 6). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:**

TOTAL AREA OF SITE.....	3,748.8 AC.±
AREA TO BE ROOFED OR PAVED.....	11,188 SF
AREA TO BE VEGETATIVELY STABILIZED.....	3,111 SF
TOTAL CUT.....	433 CY
TOTAL FILL.....	267 CY
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON THE COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- THE TOTAL AMOUNT OF SUPER SILT FENCE = 2000LF

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITE LIMESTONE (92 LBS./1000 SQUARE FEET) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQUARE FEET) BEFORE SEEDING, HARROW OR DISC INTO UPPER THREE INCHES OF SOIL; AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (61 LBS./1000 SQUARE FEET).
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITE LIMESTONE (92 LBS./1000 SQUARE FEET) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQUARE FEET) BEFORE SEEDING, HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQUARE FEET) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPIING LOVEGRASS (0.7 LBS./1000 SQUARE FEET) FOR THE PERIOD NOVEMBER 1 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQUARE FEET) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL. PER ACRE (5 GAL./1000 SQUARE FEET) OF EMULSIFIED ASPHALT ON FLAT AREAS ON SLOPES 8 FT. OR HIGHER, USE 348 GAL. PER ACRE (8 GAL./1000 SQUARE FEET) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS DISCING OR OTHER RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 400 LBS./ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQUARE FEET).

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQUARE FEET), FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPIING LOVEGRASS (0.7 LBS./1000 SQUARE FEET) FOR THE PERIOD NOVEMBER 1 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

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PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

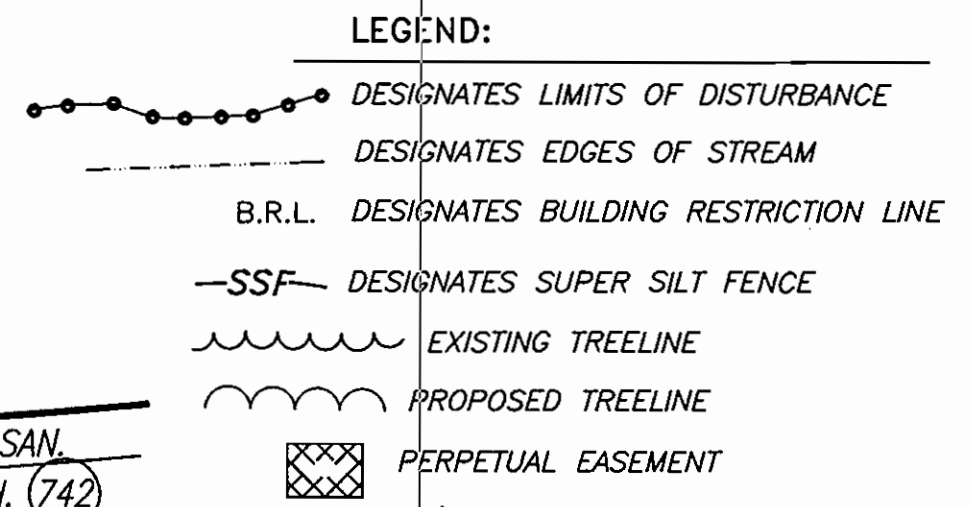
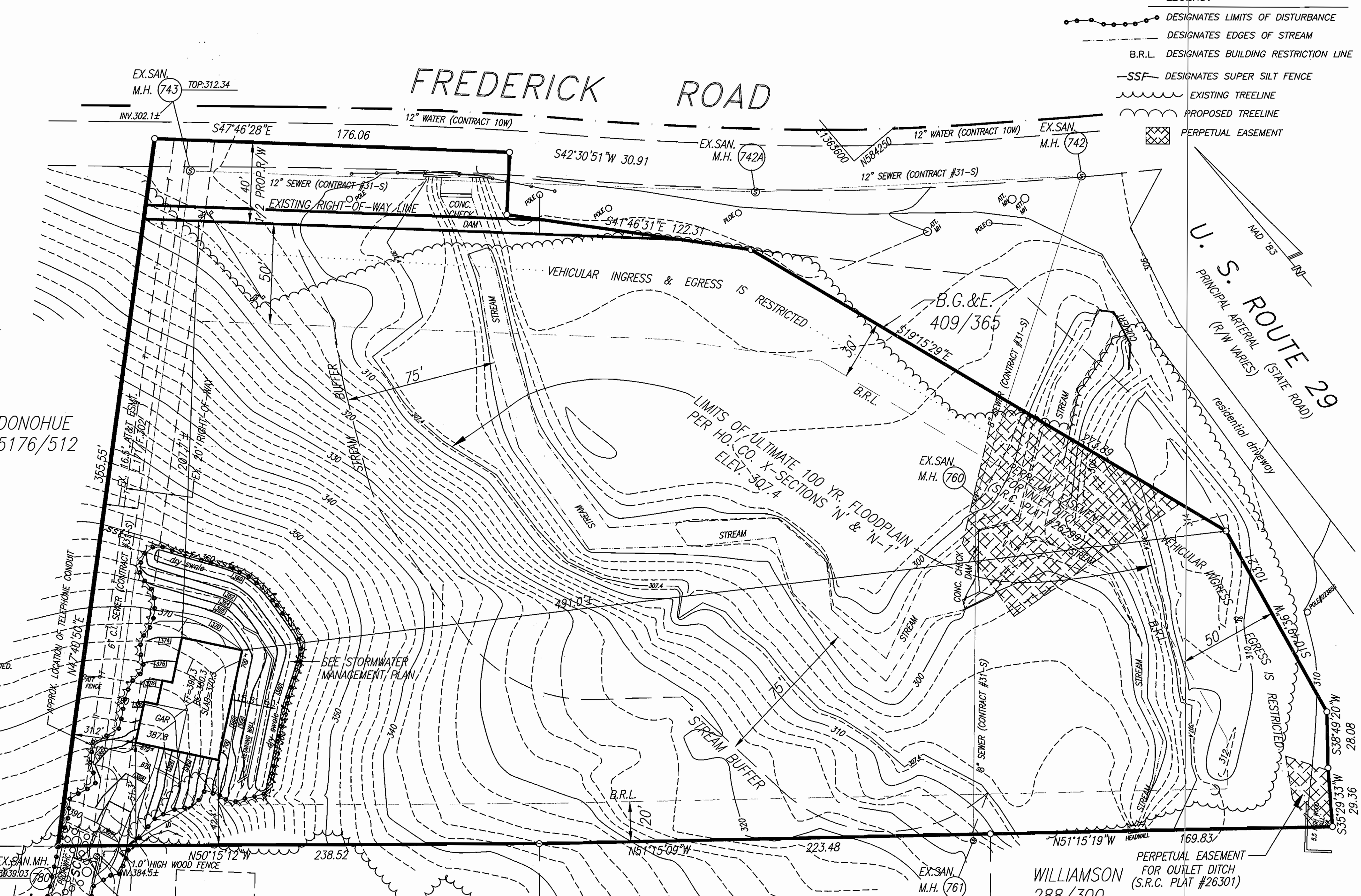
PURPOSE
TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETABLE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

CONDITIONS WHERE PRACTICE APPLIES

- THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
 - THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
 - THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
 - THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
 - THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
- FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

CONSTRUCTION AND MATERIAL SPECIFICATIONS

- TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE SOIL SURVEY PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.
- TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
 - TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR A SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 AND 1/2 INCH IN DIAMETER.
 - TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE OR OTHERS AS SPECIFIED.



U.S. ROUTE 29
PRINCIPAL ARTERIAL (STATE ROAD)
RESIDENTIAL DRIVEWAY

LOT 1-D
ST. JOHNS VILLAGE
P.B.8/37

PARCEL 'C'
ST. JOHNS VILLAGE
P.B.8/37

WILLIAMSON
288/300

PERPETUAL EASEMENT FOR OUTLET DITCH (S.R.C. PLAT #26301)

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

Scott Shanaberger
SCOTT SHANABERGER
PROFESSIONAL L.S. #10849
DATE 6/18/07

DEVELOPERS CERTIFICATE

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

Jeffrey & Janet Harman
JEFFREY & JANET HARMAN
NAME AND TITLE
DATE 6/18/07

- SEQUENCE OF CONSTRUCTION**
- OBTAIN GRADING PERMIT.
 - INSTALL STABILIZED CONSTRUCTION ENTRANCE
 - INSTALL SEDIMENT AND EROSION CONTROL DEVICES AND STABILIZE.
 - EXCAVATE FOR FOUNDATIONS, ROUGH GRADE AND TEMPORARILY STABILIZE.
 - CONSTRUCT HOUSE, SIDEWALKS AND DRIVEWAYS.
 - CONSTRUCT DRY SWALE.
 - FINAL GRADE AND STABILIZE IN ACCORDANCE WITH STDS. & SPECS.
 - UPON APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT AND EROSION CONTROL DEVICES AND STABILIZE.

OWNER/DEVELOPER:
JEFFREY & JANET HARMAN
13319 ELLIOT DRIVE
CLARKSVILLE, MD. 21029

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

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

Jim Meyer
JIM MEYER
USDA/NATURAL RESOURCES CONSERVATION SERVICES
DATE 6/18/07

SHANABERGER & LANE
8726 TOWN & COUNTRY BLVD.
SUITE 201
ELLCOTT CITY, MD. 21043
(410)-461-9563

John R. Robertson
JOHN R. ROBERTSON
HOWARD SCD
DATE 6/18/07



DESIGNED	DATE
GSS	10/19/2006
DRAWN	
GSS	
CHECKED	
GSS	
DATE	

GRADING, SEDIMENT & EROSION CONTROL PLAN
SIDEHILL ROAD PROPERTY
PROPERTY OF JEFFREY & JANET HARMAN

TAX MAP 24, GRID 11, PARCEL 246
DEED REFERENCE: 7149/487

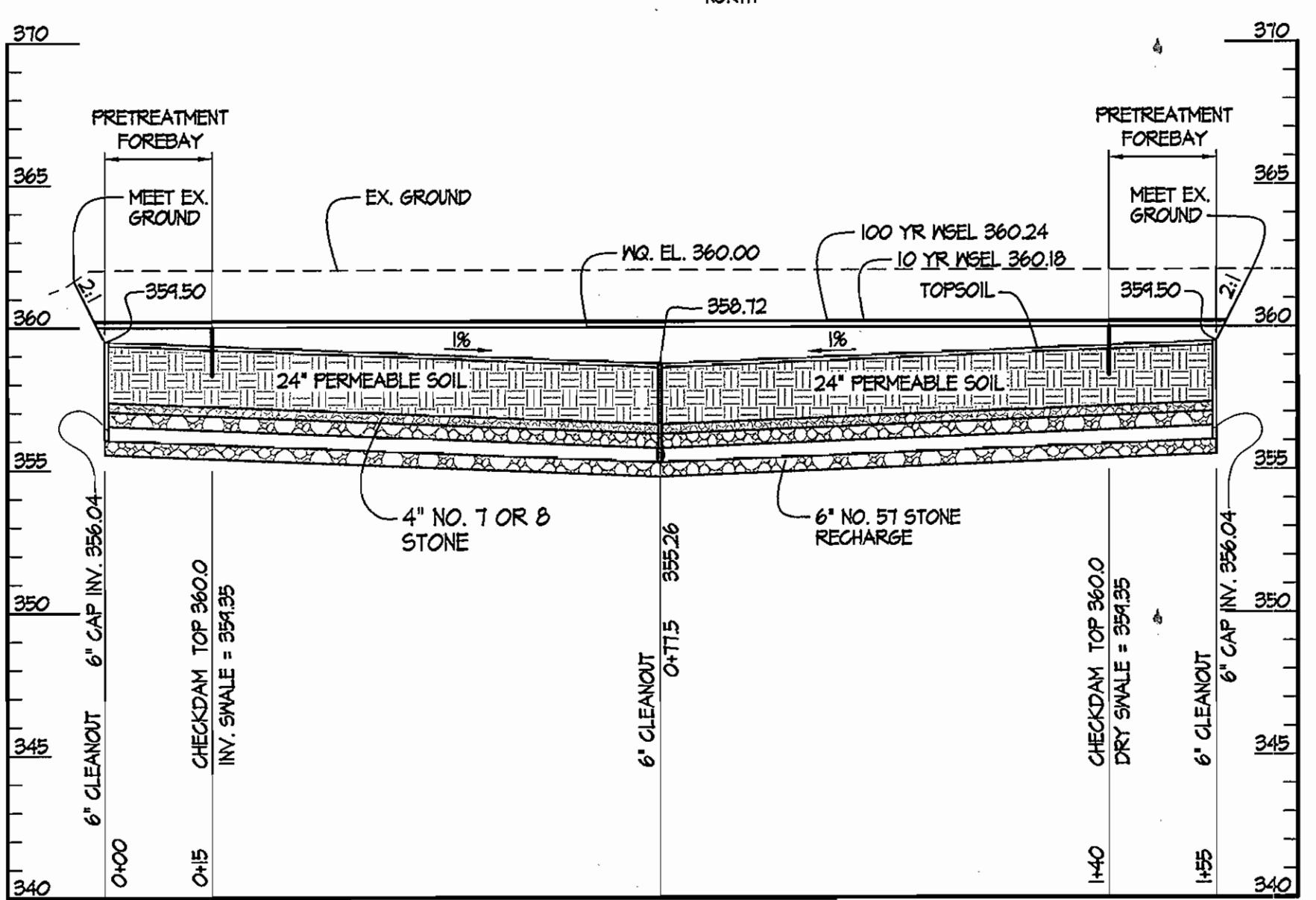
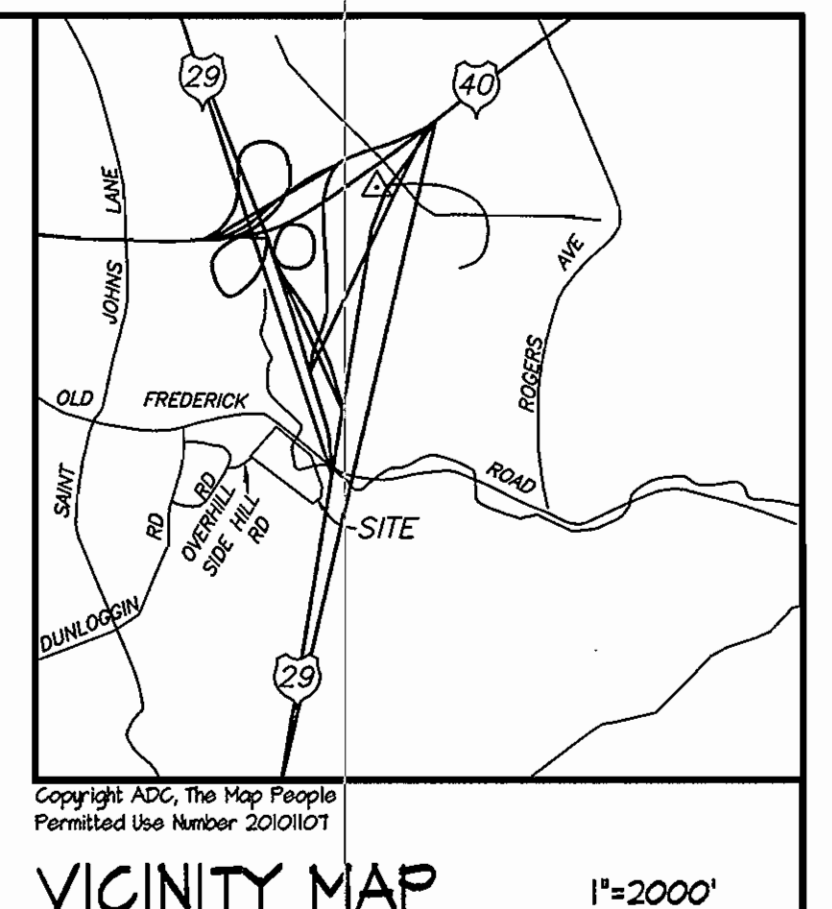
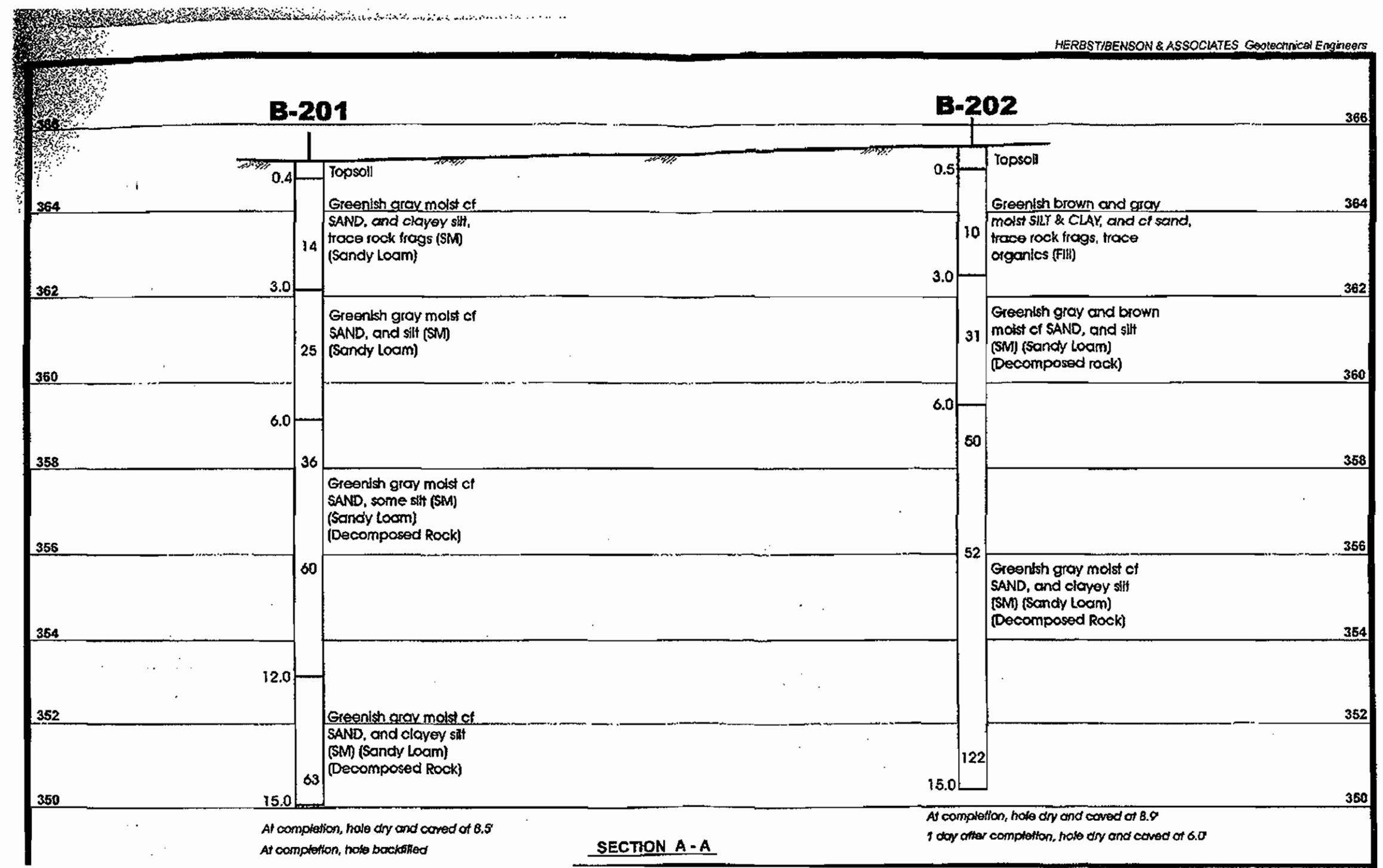
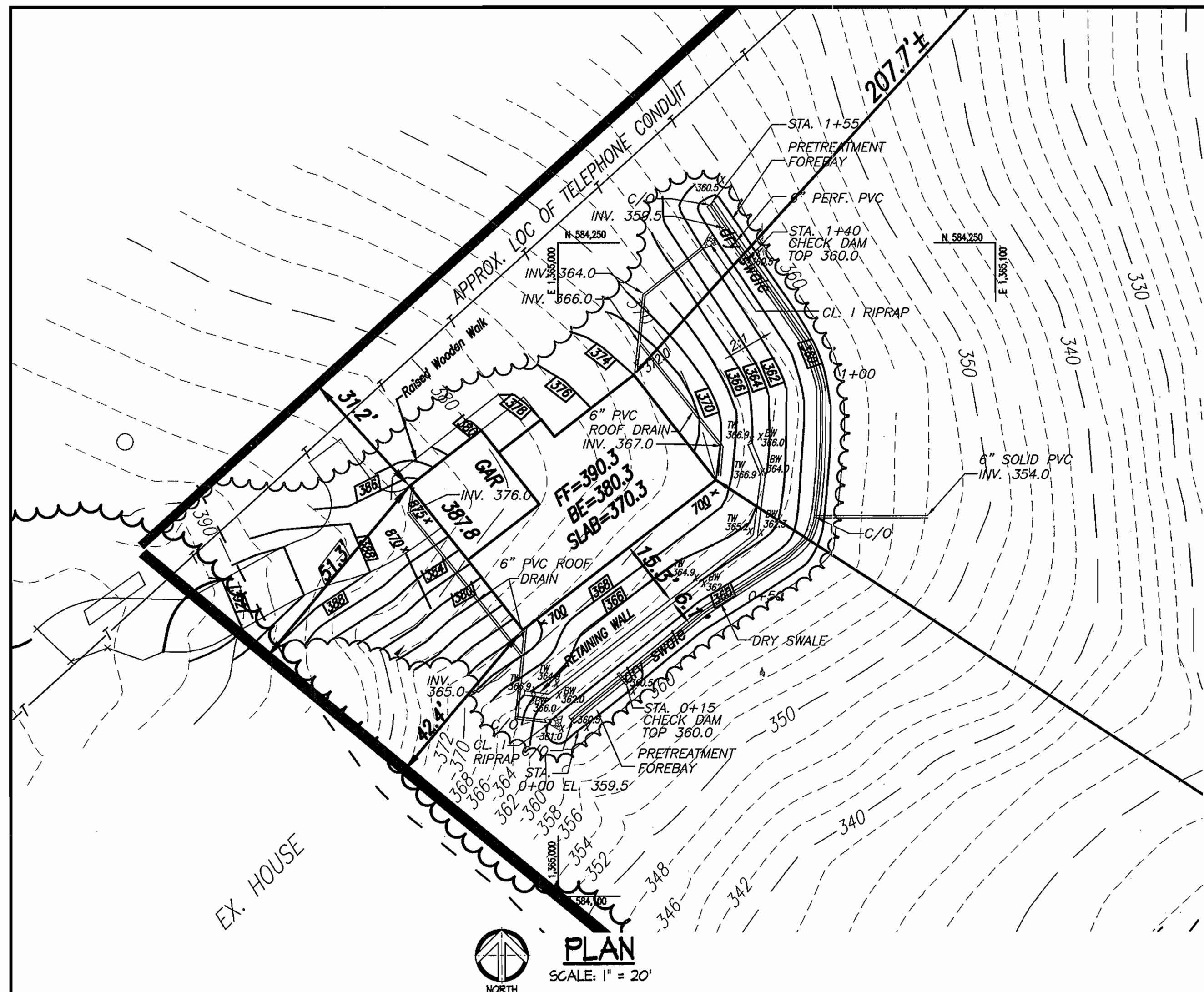
SECOND ELECTION DISTRICT
SCALE: AS SHOWN

HOWARD COUNTY, MD.
OCTOBER 19, 2006

SCALE
1"=30'
DRAWING
0303revSDP2
JOB NO.
03-03
FILE NO.
NONE

SHEET
2 OF 5

SDP-06-130

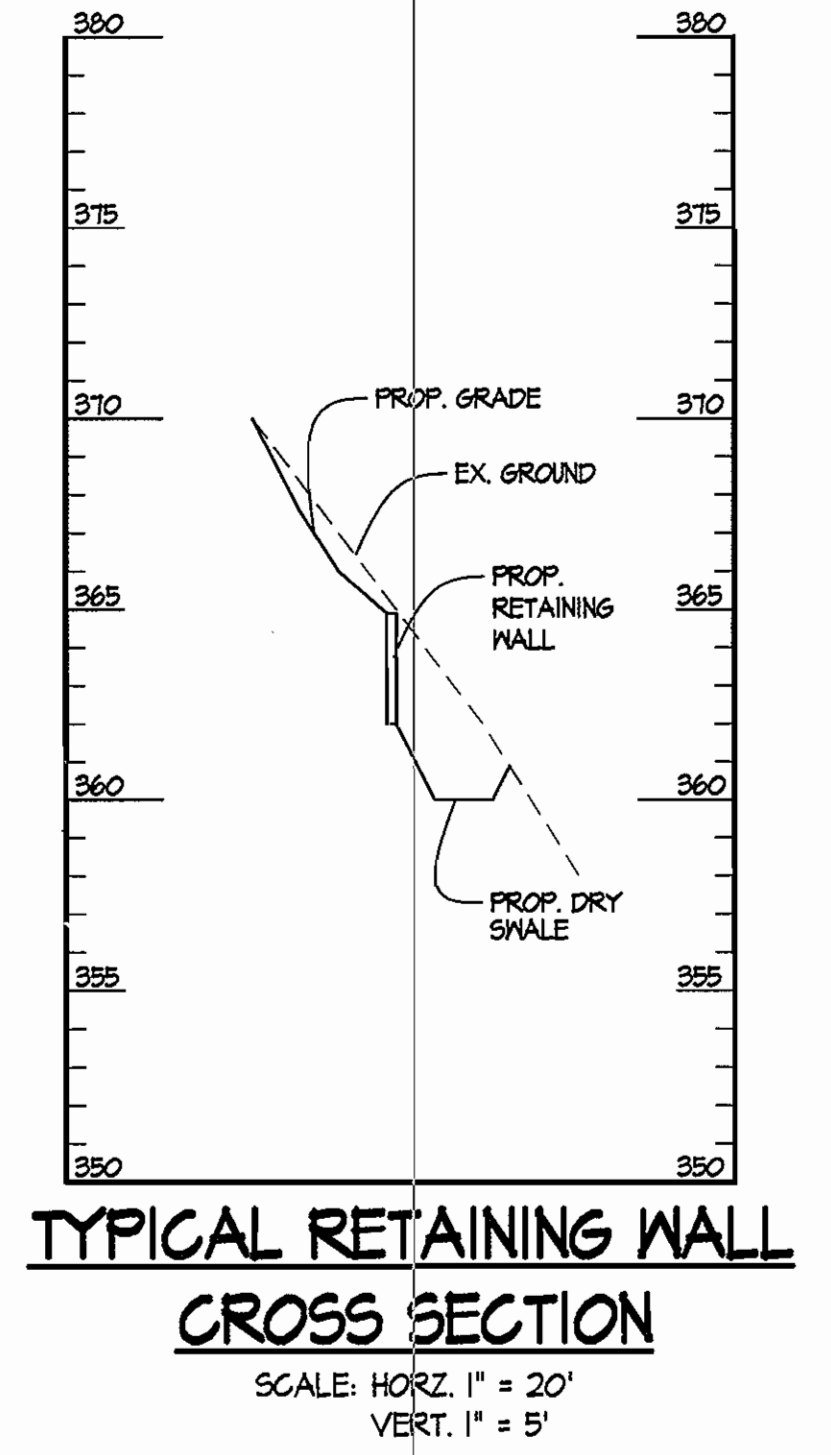


LEGEND

- PROPERTY LINE
- EX. CONTOURS
- EX. EDGE OF PAVEMENT
- PROP. BUILDINGS
- PROP. CONTOURS
- PROP. EDGE OF PAVEMENT
- PROP. STORM DRAIN
- PROP. SPOT ELEVATION
- BORING LOCATION

Dry Swale Specifications

Material	Specifications	Size	Notes
dry swale soil	USCS: M, SM, SC	n/a	Soil with a higher percent organic content is preferred
check dam (pressure treated)	AWPA Standard C6	6' by 6' or 8' by 8'	do not coat with creosote; embed at least 3' into side slopes
check dam (natural wood)	Black Locust, Red Hilberry, Golden, Catalpa, White Oak, Chestnut Oak, Black Walnut	6' to 12' diameter; notch as necessary	do not use the following, as these species have a predisposition towards rot: Ash, Black Birch, Elm, Hackberry, Hemlock, Hickories, Maples, Red and Black Oak, Pines, Poplar, Spruce, Sweetgum, Willow
underdrain gravel	AWG#10 M-45	0.25" to 0.75"	
underdrain	F 150 Type PS 20 or AWG#10 M-210	4' to 6' rigid schedule 40 PVC or 3" SDR35	3/8" part, @ 6' on center, 4 holes per row; minimum of 3' of gravel over pipes; not necessary underneath pipes
geotextile	Class 10 - apparent opening size (ASTM D-4751), grab tensile strength (ASTM D-4632), puncture resistance (ASTM D-4632)	n/a	
Rip rap	For county criteria; if none given, use MSHA Standards and Specs Section 909	Size per county DOT requirements based on 10-year design flow	



DRY SWALE SUMMARY TABLE

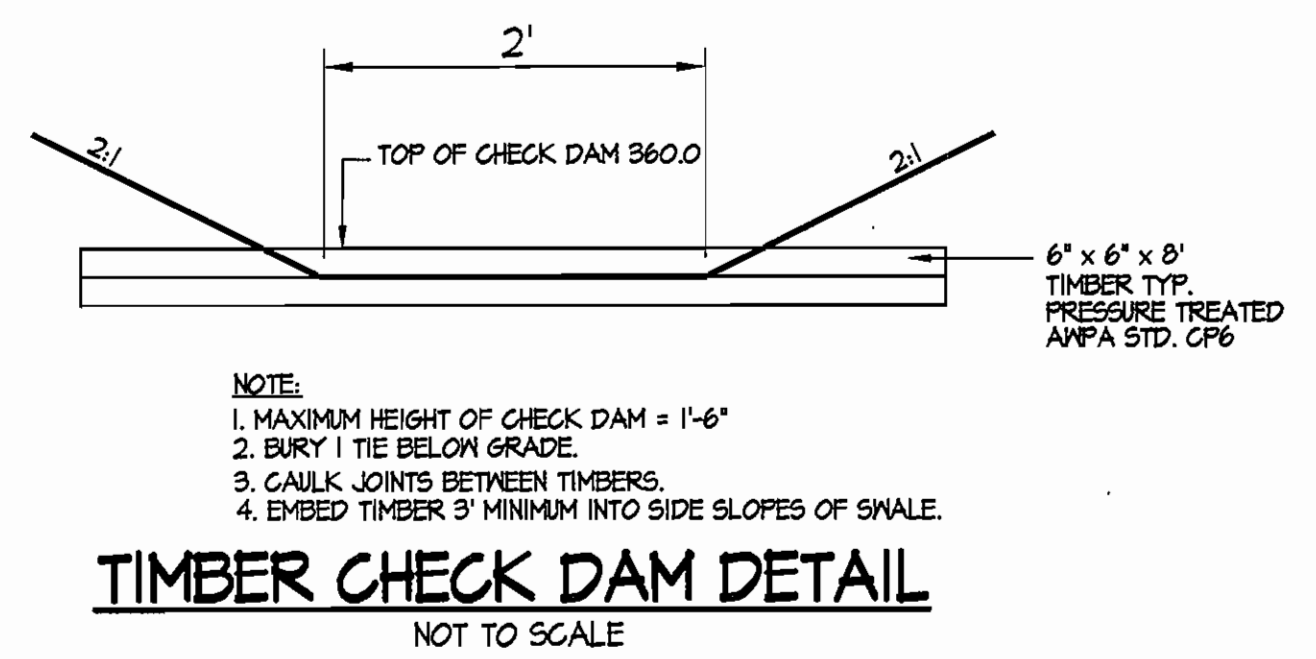
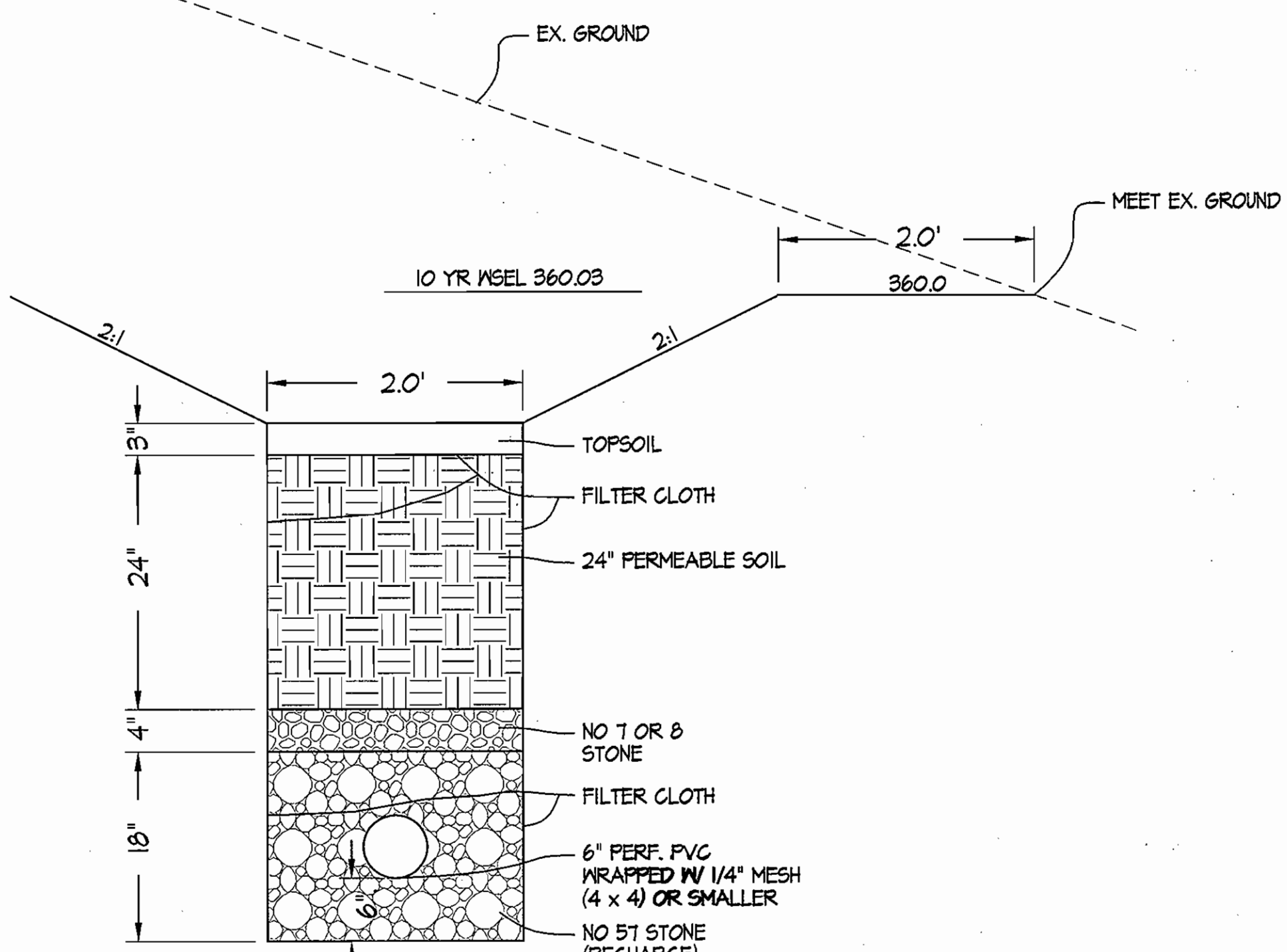
Dry Swale #1	Side Slopes	Bottom Width	Q ₁	V ₁	Q ₀	V ₀	Q ₁₀₀	V ₁₀₀
	2:1	2'	0.50	0.88	1.50	1.31	2.40	1.55

RUNOFF SUMMARY TABLE

	Required (Cu. Ft.)	Provided (Cu. Ft.)	Notes
Pre-Treatment Volume	28	55	Storage Provided in Forebay
Water Quality Volume (WQV)	281	474	Storage Provided in Dry Swale
Recharge Volume (Rev)	20	50	Stone-filled Reservoir Under Swale
Channel Protection (Cpv)	Not Required	N/A	1st Year Storm (2 cfs.)
Overbank Protection (Op)	Not Required	N/A	
Extreme Flood Volume (Qf)	--	227	Storage Provided in Dry Swale

OPERATION & MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED OPEN CHANNEL SYSTEMS (O-1 & O-2)

- A. THE OPEN CHANNEL SYSTEM SHALL BE INSPECTED ANNUALLY AND AFTER MAJOR STORMS. INSPECTION SHALL BE PERFORMED DURING WET WEATHER TO DETERMINE IF THE FACILITY IS FUNCTIONING PROPERLY.
- B. THE OPEN CHANNEL SHALL BE MAINTAINED AS NEEDED DURING THE GROWING SEASON TO MAINTAIN A MAXIMUM GRASS HEIGHT OF 6 INCHES.
- C. DEBRIS AND LITTER SHALL BE REMOVED DURING REGULAR MAINTENANCE OPERATION AS NEEDED.
- D. VISIBLE SIGNS OF EROSION IN THE OPEN CHANNEL SYSTEM SHALL BE REPAIRED AS SOON AS NEEDED.
- E. REMOVE SILT IN THE OPEN CHANNEL WHEN IT EXCEEDS 25% OF THE ORIGINAL FLOW.



APPROVED: DEPARTMENT OF PLANNING & ZONING
 CHIEF DEVELOPMENT ENGINEERING DIVISION
 CHIEF DIVISION OF LAND DEVELOPMENT
 DIRECTOR

6/25/07 DATE
 6/29/07 DATE
 6/29/07 DATE

STORMWATER MANAGEMENT PLAN
SIDE HILL ROAD PROPERTY

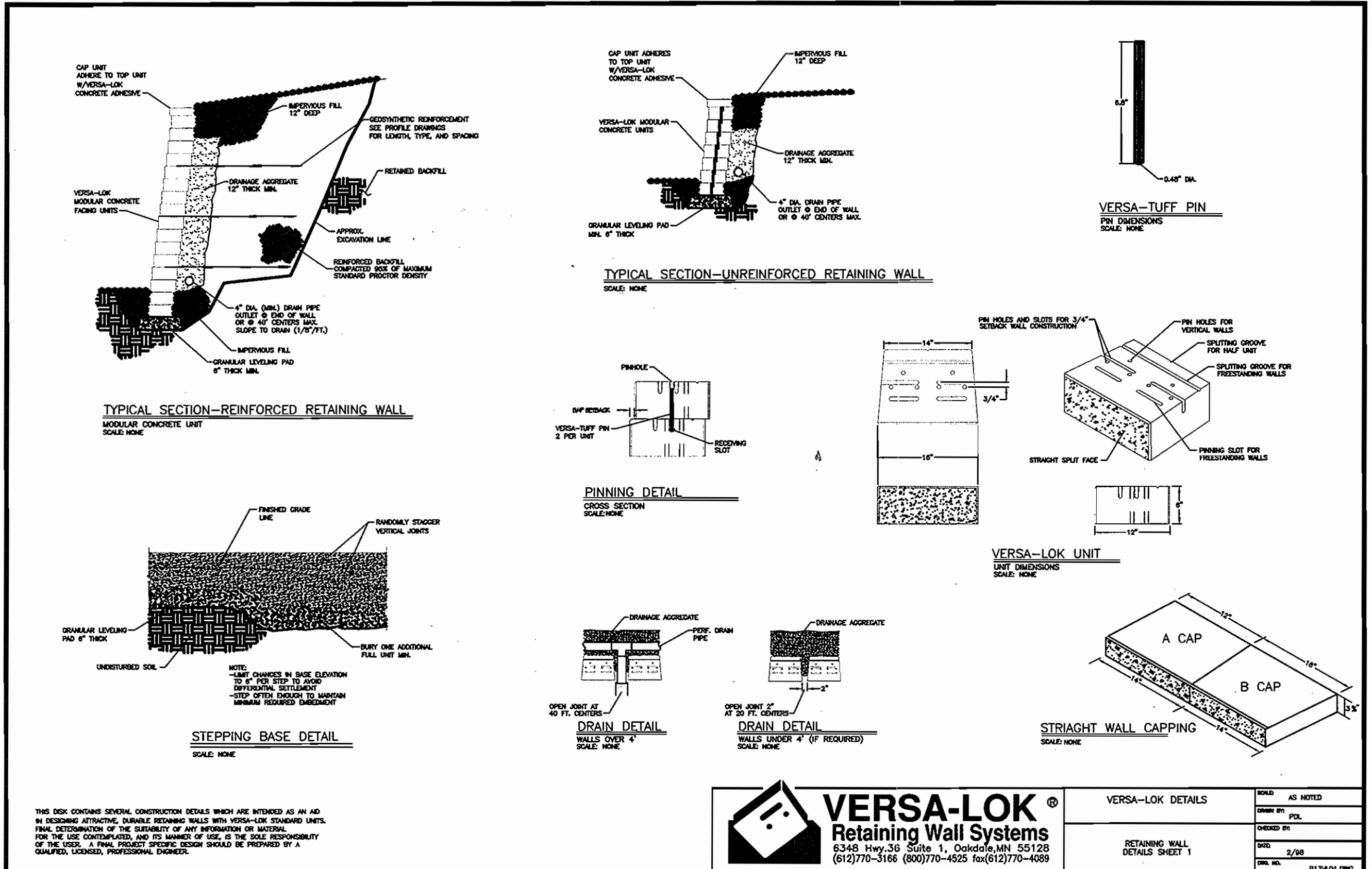
PROPERTY OF
 Jeffrey & Janet Harmon
 13319 Ellicott Drive, Clarksville, MD 21029
 TAX MAP 24, GRID II, PARCEL 246
 DEEP REFERENCE: 6292048
 SECOND ELECTION DIST. HOWARD COUNTY, MD

REVISIONS

SITE RESOURCES
 Incorporated
 Comprehensive Land Planning & Site Design Services

14307 Jarrettsville Pike • Phoenix, Maryland 21131
 (410) 683-3388 • fax (410) 683-3389

DRAWN BY: MAS CONTRACT NO.:
 DESIGNED BY: KBM / JLS SCALE: AS SHOWN
 CHECKED BY: RLR SRI PROJECT NO: 03047
 DATE: August 8, 2006 SHEET 3 OF 5



RETAINING WALL DETAILS
NOT TO SCALE

DESIGN-BUILD NOTE:
CONTRACTOR SHALL EMPLOY AN ENGINEER REGISTERED IN THE STATE OF MARYLAND TO DESIGN, SPECIFY AND DETAIL THE PROPOSED VERSALOK (OR APPROVED EQUAL) RETAINING WALLS, INCLUDING BACKFILL AND GEOSYNTHETIC REINFORCEMENT TYPE, LENGTH AND SPACING FOR THE PROPOSED SITE DESIGN AND LOAD CONDITIONS.

APPROVED: DEPARTMENT OF PLANNING & ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DIRECTOR

6/25/06
 6/27/07
 6/29/07

SITE DETAILS

SIDE HILL ROAD PROPERTY

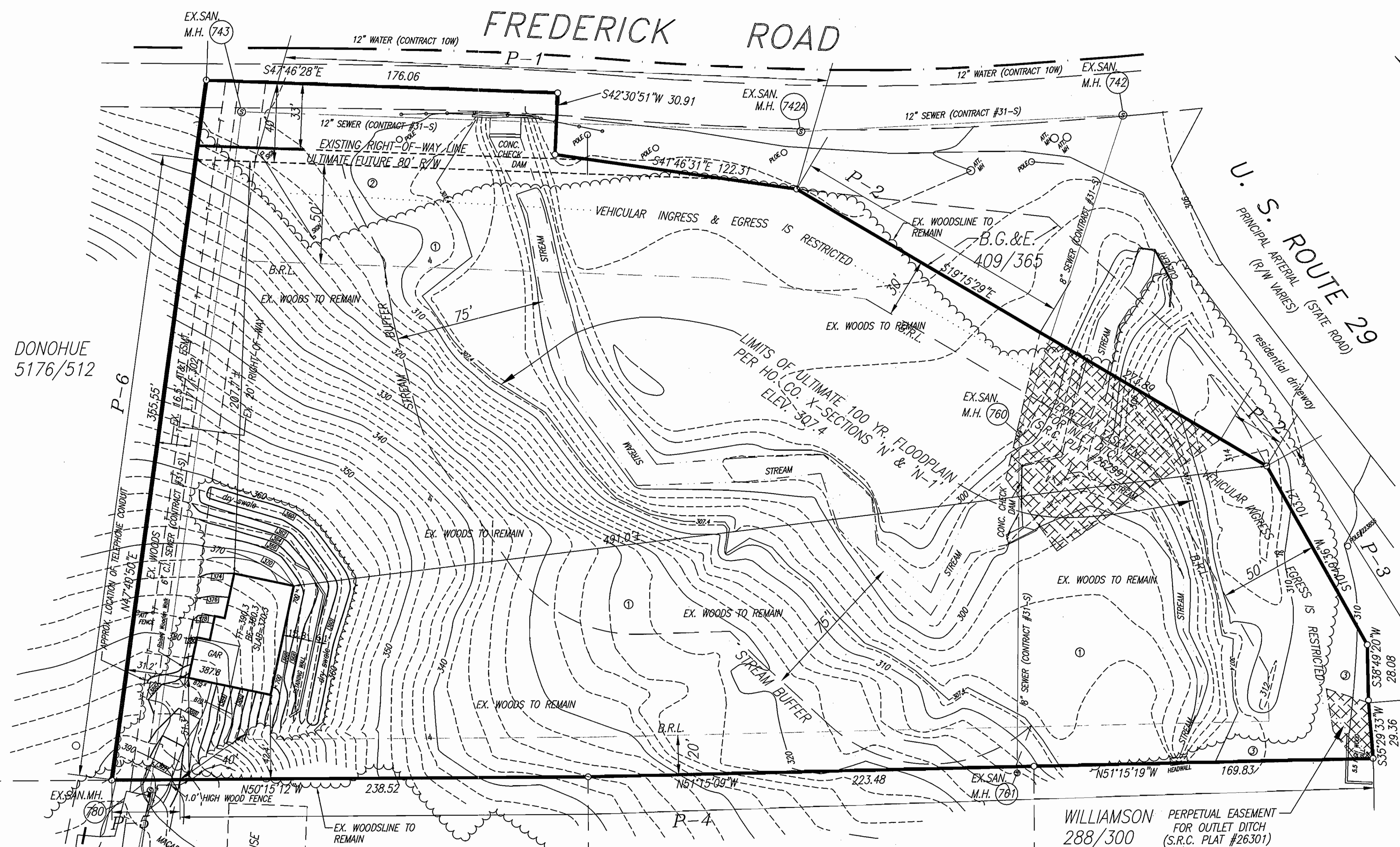
PROPERTY OF
Jeffrey & Janet Harmon
 13319 Ellicott Drive, Clarksville, MD 21029
 TAX MAP 24, GRID II, PARCEL 246
 DEED REFERENCE: 62203415
 SECOND ELECTION DIST, HOWARD COUNTY, MD

REVISIONS

SITE RESOURCES
 incorporated
 Comprehensive Land Planning & Site Design Services
 14807 Jarrettsville Pike • Potosi, Maryland 21151
 (410) 683-3388 • fax (410) 683-3389

DRAWN BY:	MAG	CONTRACT NO.:	
DESIGNED BY:	KEM / JLS	SCALE:	AS SHOWN
CHECKED BY:	RLR	SRI PROJECT NO.:	03091
DATE:	August 8, 2006	SHEET	4 OF 5

LEGEND:
 ● DESIGNATES LIMITS OF DISTURBANCE
 — DESIGNATES EDGES OF STREAM
 B.R.L. DESIGNATES BUILDING RESTRICTION LINE



- NOTES:
1. THE PROPERTY IS ZONED : R-20
 2. THE TOPOGRAPHY SHOWN HEREON WAS FIELD-RUN BY SHANABERGER & LANE IN MARCH OF 2003.
 3. THIS PROPERTY IS SERVED BY EXISTING PUBLIC WATER AND SEWER.
 4. AREA OF PROPERTY : 3.7488 AC±
 5. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. CREDIT HAS BEEN TAKEN FOR EXISTING TREES ON THE SITE AND NO LANDSCAPING SURETY IS REQUIRED. NO PLANTING IS REQUIRED.

DONOHUE
5176/512

WILLIAMSON PERPETUAL EASEMENT FOR OUTLET DITCH (S.R.C. PLAT #26301)
288/300

LOT 1-D
ST. JOHNS VILLAGE
P.B.8/37

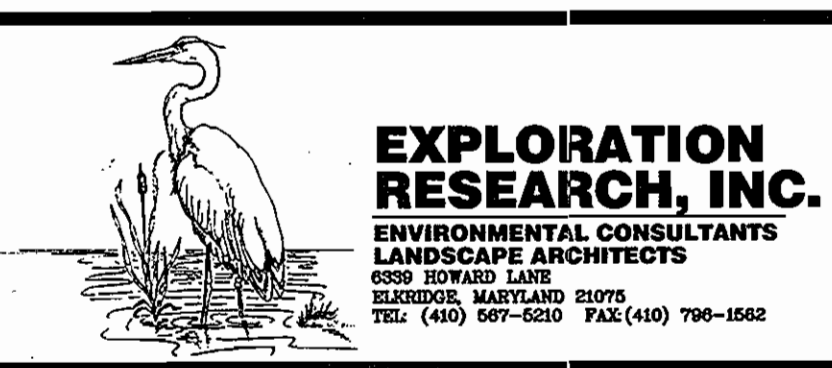
PARCEL 'C'
ST. JOHNS VILLAGE
P.B.8/37

SCHEDULE A
PERIMETER LANDSCAPE EDGE

CATEGORY	P-1	P-2	P-3	P-4	P-5	P-6
LANDSCAPE TYPE	B	A	B	A	NONE	A
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	272'	142' + 27' = 169'	132'	598'	34'	315'
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	YES 272'	YES 169'	YES 132'	YES 598'	NO	YES 315'
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	NO	NO	NO	NO
NUMBER OF PLANTS REQUIRED						
SHADE TREES	0	0	0	0	0	0
EVERGREEN TREES	0	0	0	0	0	0
SHRUBS	0	0	0	0	0	0
NUMBER OF PLANTS PROVIDED						
SHADE TREES	0	0	0	0	0	0
EVERGREEN TREES	0	0	0	0	0	0
OTHER TREES (2:1 SUBSTITUTION)	0	0	0	0	0	0
SHRUBS (10:1 SUBSTITUTION) (DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)	0	0	0	0	0	0



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 [Signature] 6/25/07
 CHIEF, DEVELOPMENT ENGINEERING DIVISION & DATE
 [Signature] 6/27/07
 CHIEF, DIVISION OF LAND DEVELOPMENT & DATE
 [Signature] 6/28/07
 DIRECTOR & DATE



OWNER/DEVELOPER:
JEFFREY & JANET HARMAN
13319 ELLIOT DRIVE
CLARKSVILLE, MD. 21029

DESIGNED	DATE
GSS	6/7/2007
DRAWN	
GSS	
CHECKED	
AB	
DATE	

LANDSCAPE PLAN
 SIDEHILL ROAD PROPERTY
 PROPERTY OF JEFFREY & JANET HARMAN
 TAX MAP 24, GRID 11, PARCEL 246
 DEED REFERENCE: 7149/487
 SECOND ELECTION DISTRICT HOWARD COUNTY, MD.
 SCALE: AS SHOWN JUNE 7, 2007

SCALE
1"=30'
DRAWING
0303revSDP4
JOB NO.
03-03
FILE NO.
NONE

SHEET
5 OF 5