

GENERAL NOTES

- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- THE CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK ON THESE DRAWINGS:
 MISS UTILITY 1-800-257-7777
 AT & T 1-800-252-1133
 HOWARD COUNTY BUREAU OF UTILITIES: 410-313-4900
 VERIZON CABLE LOCATION DIVISION: 1-800-743-0033
 B.G.E. CO. CONSTRUCTION SERVICES: 410-637-8713
 B.G.E. CO. (EMERGENCY): 410-689-0123
 STATE HIGHWAY ADMINISTRATION: 410-531-5533
- 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 START OF WORK.
- ANY DAMAGE TO COUNTY'S RIGHT-OF-WAY, PAVING, OR EXISTING UTILITIES SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- EXISTING UTILITIES LOCATED FROM ROAD CONSTRUCTION PLANS AND AVAILABLE RECORD DRAWINGS, CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- 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 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
 A) WIDTH - 12 FEET (16 FEET IF SERVING MORE THAN ONE RESIDENCE);
 B) SURFACE - 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MIN.);
 C) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE, AND MINIMUM 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 DRIVEWAY SURFACE;
 F) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
- ALL ASPECTS OF THE PROJECT ARE IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM(S) OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100-YEAR FLOODPLAIN.
- TREE PROTECTION FENCING WILL BE PROVIDED AT THE LIMITS OF DISTURBANCE WHERE GRADING IS ADJACENT TO ENVIRONMENTAL AREAS.
- THIS SUBDIVISION COMPLIES WITH THE AMENDED 5TH EDITION OF THE SUBDIVISION AND ZONING REGULATIONS (CB-45-2003) AND THE ZONING REGULATIONS, AS AMENDED BY COUNCIL BILL 75-2003.
- THE SUBJECT PROPERTY IS ZONED R-12 PER THE FEBRUARY 2, 2004 COMPREHENSIVE ZONING PLAN, AND THE COMPREHENSIVE LITE ZONING AMENDMENTS 07/28/06.
- 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. 3805 AND 3806 WERE USED FOR THIS PROJECT.
- SHC ELEVATIONS SHOWN ARE LOCATED AT THE PROPERTY LINE.
- FOR DRIVEWAY ENTRANCE DETAIL REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAIL R-6.06.
- REF WP-06-85 APPROVED APRIL 6, 2006 TO ALLOW CONSOLIDATION OF PLAT OF HARWOOD LOTS 205 TO 206 TO CREATE ONE LOT, RECORDED AS L. 10429, F. 472.
- STORMWATER MANAGEMENT AND ENVIRONMENTAL CONCEPT PLAN IS NOT REQUIRED. LIMIT OF DISTURBANCE IS LESS THAN 5,000 SF (ACTUAL LOD IS 3,330 SF).
- NOISE STUDY PREPARED BY ROBERT H. VOGEL ENGINEERING ON SEPTEMBER 2010. NO MITIGATION IS REQUIRED.
- THIS PLAN IS EXEMPT FROM FOREST CONSERVATION BECAUSE SINGLE LOT WITH LESS THAN 40,000 SF.
- LANDSCAPING IS NOT REQUIRED FOR THIS SITE SINCE THE LOT IS WITHIN A SUBDIVISION.

SITE DATA

LOCATION: TAX MAP 38, GRID 13, PARCEL 873
 EXISTING ZONING: R-12
 GROSS AREA OF PARCEL: 6,000 SF (0.138 AC.)
 DEED REFERENCE: L. 10429/F. 472
 DPZ REFERENCE: WP-06-85
 AREA OF PLAN SUBMISSION: 0.138 AC.
 AREA OF 100-YR FLOODPLAIN: N/A
 AREA OF STEEP SLOPES: N/A
 AREA OF DISTURBANCE: 3,330 SF (0.076 AC.)
 NUMBER OF PROPOSED RESIDENTIAL LOTS: 1
 AREA OF PROPOSED RESIDENTIAL LOTS: 0.138 AC.

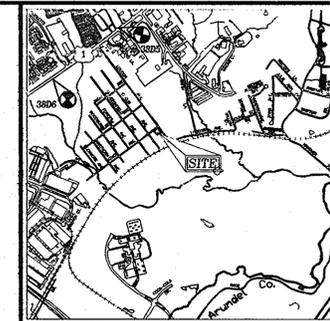
SITE DEVELOPMENT PLAN

HARWOOD PARK LOT 1277

HOWARD COUNTY, MARYLAND

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREES TO REMAIN
- LIGHT POLES
- SOIL TYPE
- CONCRETE



VICINITY MAP
 SCALE: 1"=2000'
 ADC MAP: 4937, C10

BENCHMARKS

NO.	NORTHING	EASTING	ELEVATION
38D5	N 558378.53	E 1386524.20	193.024
38D6	N 557155.42	E 1384992.25	174.534

SHEET INDEX

DESCRIPTION	SHEET NO
COVER SHEET	1 OF 3
LAYOUT, GRADING, SEDIMENT, EROSION CONTROL AND SOILS PLAN	2 OF 3
SEDIMENT AND EROSION CONTROL DETAILS	3 OF 3

PERMIT INFORMATION CHART

SUBDIVISION NAME		SECTION/ AREA			
HARWOOD PARK LOT 1277					
LOT/ PARCEL					
R-12					
DEED REF #	BLOCK NO	NO ZONE	TAX MAP	ELECT DIST	CENSUS TR
10429/472	13	R-12	38	1	6012.02
ADDRESS CHART					
LOT NO	STREET ADDRESS				
1277	6446 LOUDON AVENUE				

SOILS LEGEND

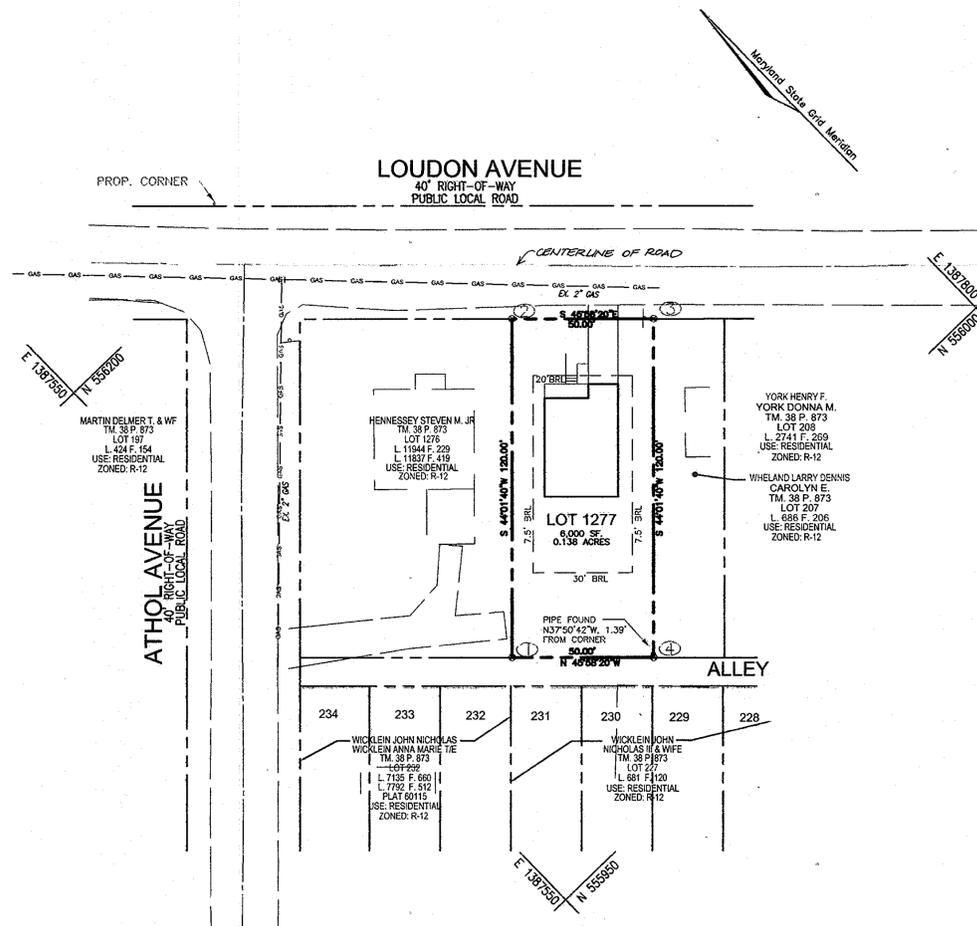
SYMBOL	NAME / DESCRIPTION	GROUP
UcD	URBAN LAND-CHILLUM-BELTSVILLE COMPLEX, 5 TO 15 PERCENT SLOPES	C

OWNER

JOHN T. CLARK
 GLORIA J. CLARK
 6801 ATHOL AVE
 ELK RIDGE, MD 21075-5807

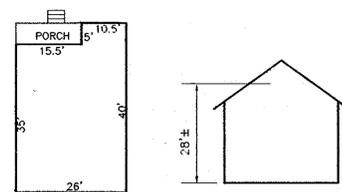
BUILDER

MAIN STREET BUILDERS, INC.
 5705 LANDING ROAD
 ELK RIDGE, MARYLAND 21075
 410-796-2003



COORDINATE TABLE

NO.	NORTHING	EASTING
1	556024.74	1387596.03
2	556111.02	1387679.43
3	556076.24	1387715.38
4	555989.99	1387631.98



LOT 1277
 HOUSE PLAN
 1"=20'

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 12/21/10
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
[Signature] 12/22/10
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
[Signature] 12/22/10
 DIRECTOR DATE

SITE DEVELOPMENT PLAN
COVER SHEET
HARWOOD PARK LOT 1277
 L. 10429, F. 472
 SINGLE FAMILY DETACHED

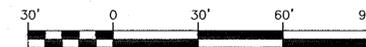
TAX MAP 38 GRID 13 PARCEL 873
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

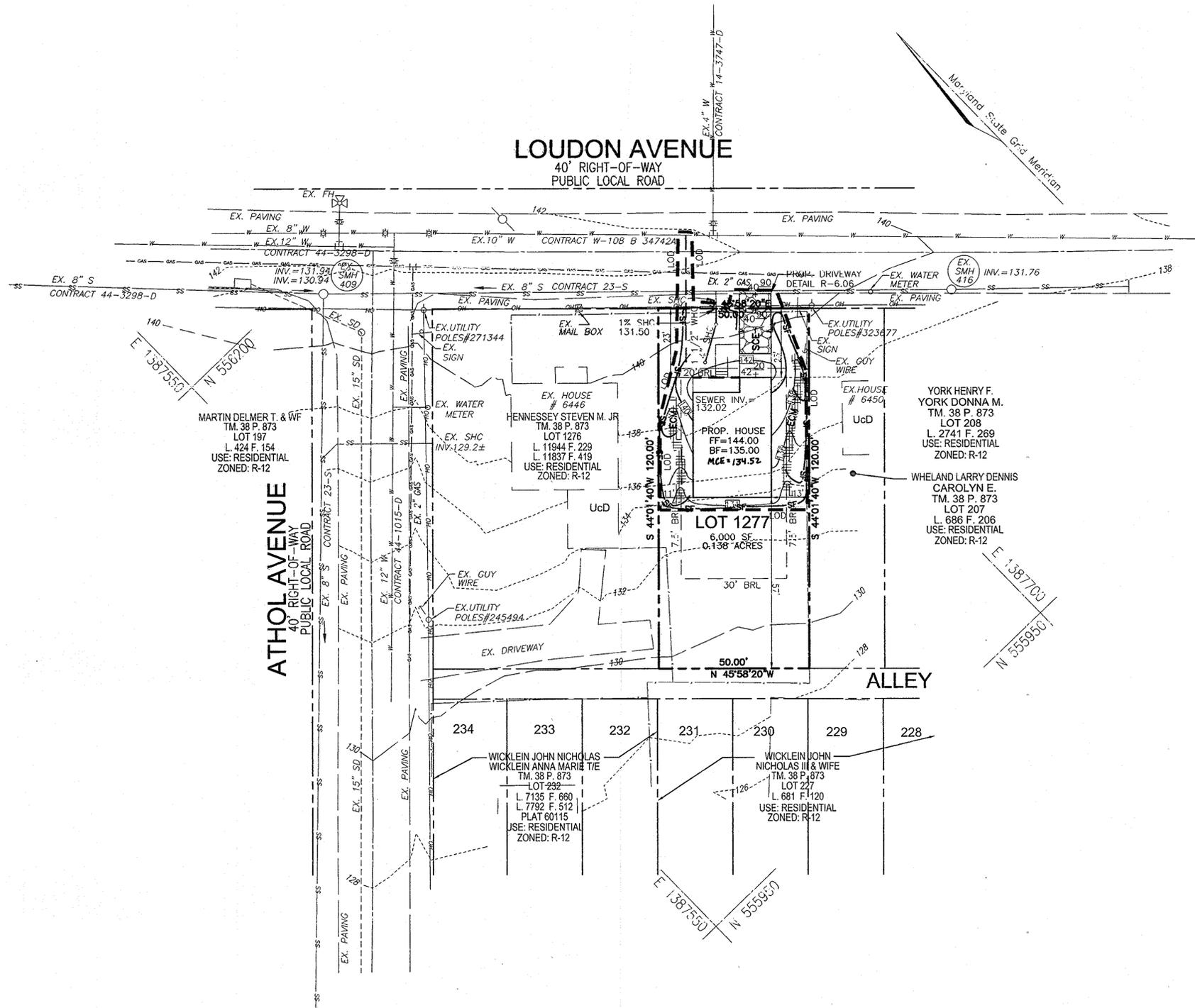
ROBERT H. VOGEL ENGINEERING, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 8407 Main Street, Ellicott City, MD 21043
 Tel: 410.461.7666 Fax: 410.461.8961

PROFESSIONAL CERTIFICATE
 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. 16193, EXPIRATION DATE: 09-27-2012

DESIGN BY: JCO
 DRAWN BY: HS
 CHECKED BY: RNV
 DATE: OCTOBER 2010
 SCALE: 1"=30'
 W.D. NO.: 04-33-14

1 SHEET OF 3





LEGEND:

	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED SPOT ELEVATION
	EXISTING SPOT ELEVATION
	EXISTING CURB AND GUTTER
	PROPOSED CURB AND GUTTER
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING MAILBOX
	EXISTING SIGN
	EXISTING SANITARY MANHOLE
	EXISTING SANITARY LINE
	EXISTING CLEANOUT
	EXISTING FIRE HYDRANT
	EXISTING WATER LINE
	EXISTING TREE LINE (FIELD LOCATED)
	EXISTING FENCE
	PROPERTY LINE
	RIGHT-OF-WAY LINE
	SOILS BOUNDARY
	SILT FENCE
	SUPER SILT FENCE
	LIMIT OF DISTURBANCE
	STABILIZED CONSTRUCTION ENTRANCE

MARTIN DELMER T. & WF
TM. 38 P. 873
LOT 197
L. 424 F. 154
USE: RESIDENTIAL
ZONED: R-12

HENNESSEY STEVEN M. JR.
TM. 38 P. 873
LOT 1276
L. 11944 F. 229
L. 11837 F. 419
USE: RESIDENTIAL
ZONED: R-12

YORK HENRY F.
YORK DONNA M.
TM. 38 P. 873
LOT 208
L. 2741 F. 269
USE: RESIDENTIAL
ZONED: R-12

WHELAND LARRY DENNIS
CAROLYN E.
TM. 38 P. 873
LOT 207
L. 686 F. 206
USE: RESIDENTIAL
ZONED: R-12

WICKLEIN JOHN NICHOLAS
WICKLEIN ANNA MARIE T/E
TM. 38 P. 873
LOT 232
L. 7135 F. 660
L. 7792 F. 512
PLAT 60115
USE: RESIDENTIAL
ZONED: R-12

WICKLEIN JOHN NICHOLAS II & WIFE
TM. 38 P. 873
LOT 227
L. 681 F. 120
USE: RESIDENTIAL
ZONED: R-12

OWNER
JOHN T. CLARK
GLORIA J. CLARK
6801 ATHOL AVE
ELKRIDGE, MD 21075 5807

BUILDER
MAIN STREET BUILDERS, INC.
5705 LANDING ROAD
ELKRIDGE, MARYLAND 21075
410 796 2003

NO.	REVISION	DATE

**SITE DEVELOPMENT PLAN
LAYOUT, GRADING, SEDIMENT, EROSION
CONTROL AND SOILS PLAN
HARWOOD PARK LOT 1277**

TAX MAP 38 GRID 13 PARCEL 873
1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS
8407 MAIN STREET TEL: 410.461.7666
ELLCOTT CITY, MD 21043 FAX: 410.461.8961

DESIGN BY: JCO
DRAWN BY: HSL
CHECKED BY: RHV
DATE: OCTOBER 2010
SCALE: 1"=20'
W.O. NO.: 04-33-14

PROFESSIONAL CERTIFICATE
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE TITLE OF THE STATE OF MARYLAND, LICENSE NO. 16193 EXPIRATION DATE: 09-27-2012

12/17/10
STATE OF MARYLAND
PROFESSIONAL ENGINEER
ROBERT H. VOGEL, PE No. 16193

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

John R. ... 12/21/10
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Neil ... 12/21/10
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Marcus ... 12/22/10
DIRECTOR DATE

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

John R. ... 12/16/10
HOWARD S.C.D. DATE

BY THE DEVELOPER:

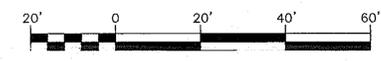
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL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

Joseph ... 12/16/10
SIGNATURE OF DEVELOPER DATE

BY THE ENGINEER:

"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, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Robert H. Vogel 12/17/10
SIGNATURE OF ENGINEER DATE



PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED. SEE 200 PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING; IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
 1. REFERENCE: APPLY 2 TONS/ACRE DOLOMITIC LIMESTONE (82 LBS/1000 SQ. FT.) AND 600 LBS/ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING.
 2. ACCEPTABLE: APPLY 2 TONS/ACRE DOLOMITIC LIMESTONE (82 LBS/1000 SQ. FT.) AND 1000 LBS/ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 80 LBS/ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 40 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS/ACRE (0.04 LBS/1000 SQ. FT.) OF WEEPER LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY:
 OPTION 1: TWO TONS PER ACRE OF WELL-ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING.
 OPTION 2: USE SOO.
 OPTION 3: SEED WITH 45 LBS/ACRE KENTUCKY 30 TALL FESCUE AND M. LCH WITH 2 TONS/ACRE WELL-ANCHORED STRAW.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 2 1/2 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPE 3 FEET OR HIGHER, USE 3/4 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, RE-SEEDING, AND RESEEDINGS.

TEMPORARY SEEDING NOTES

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

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING; IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS/ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) FOR THE PERIOD MAY 1 - AUGUST 14, SEED WITH 3 LBS/ACRE OF WEEDER LOVEGRASS (0.7 LBS/1000 SQ. FT.) FOR THE PERIOD NOVEMBER 16 - FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS/ACRE OF WELL-ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.

MULCHING: APPLY 1-1/2 TO 2 TONS/ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED WEED-FREE SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 2 1/2 GAL PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPE 3 FT. OR HIGHER, USE 3/4 GAL PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

DEFINITION: PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.
PURPOSE: TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, OR ARE MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.
CONDITIONS WHERE PRACTICE APPLIES: HAVING 2:1 OR FLATTER SLOPES WHERE THE EXPOSED SUBSOIL/ARENT MATERIAL IS NOT ADAPTED TO PRODUCE VEGETATIVE GROWTH.
 A. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FLURISH. C. CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
 C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
 D. THE SOIL IS SO ACID 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 PLAN.

CONSTRUCTION AND MATERIAL SPECIFICATIONS
 1. 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 REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY THE U.S. DEPARTMENT OF AGRICULTURE AND MARYLAND AGRICULTURAL EXPERIMENT STATION.
 2. TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
 I. TOPSOIL SHALL BE A JAMA SANDY LOAM, QUAY LOAM, S1 LOAM, SANDY CLAY LOAM, LOAMY SAND, OTHER SILTS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR A SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, REGARDLESS OF PERCENTAGE.
 II. TOPSOIL SHALL NOT BE A MIXTURE OF COMBINED TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF SAND, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, TWIGS, TRASH, OR OTHER MATERIALS LARGER THAN 1/4" AND 1 1/2" IN DIAMETER.
 III. TOPSOIL SHALL BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERNARD GRASS, QUACKGRASS, JOHNSONGRASS, NITREDS, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED IN THE SUBSOIL EROSION CONTROL PLAN OR OTHERWISE.
 IV. HEAVY CLAYS, OR LIND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESICATED AREAS AND WORKED INTO THE SOIL IN CONFORMANCE WITH THESE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES:
 I. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
 A. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
 B. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

SEDIMENT CONTROL NOTES

1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSE AND PERMITS SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855).
 2. ALL VEGETATION AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN (A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3:1, (B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
 5. 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, SOO, TEMPORARY SEEDING, AND MULCHING (SEC. C). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
 6. 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.
 7. SITE ANALYSIS:
 TOTAL AREA: 6,000 SQUARE FEET
 AREA DISTURBED: 3,330 SQUARE FEET
 AREA TO BE ROOFED OR PAVED: 1,420 SQUARE FEET
 AREA TO BE VEGETATIVELY STABILIZED: 1,890 SQUARE FEET
 TOTAL FILL: 80 CY
 WASTE/BORROW LOCATION: N/A

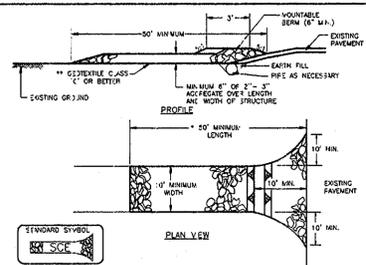
8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
 9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING, OTHER BUILDING OR GRADING APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
 11. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
 * TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT. (2 DAYS)
- NOTIFY HOWARD COUNTY BUREAU OF INSPECTIONS AND PERMITS (410-313-1880) AT LEAST 24 HOURS BEFORE STARTING ANY WORK. (3 DAYS)
- INSTALL SEDIMENT CONTROL MEASURES AS SHOWN ON PLAN AND IN ACCORDANCE WITH DETAILS. (6 MONTHS)
- AFTER OBTAINING PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR TO PROCEED, ROUGH GRADE SITE. (2 DAYS)
- CONSTRUCT HOUSES. THE FIRST FLOOR ELEVATIONS CANNOT BE MORE THAN 1' HIGHER OR 0.2' LOWER THAN THE ELEVATIONS SHOWN ON THIS PLAN. (6 MONTHS)
- UPON STABILIZATION OF ALL DISTURBED AREAS AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES. (2 DAYS)

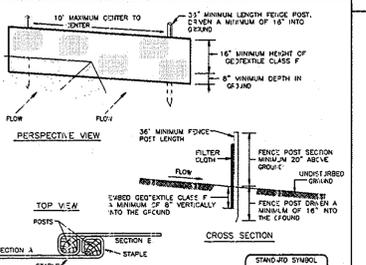
NOTES
 DURING GRADING AND AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE THE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL MEASURES SHOWN HEREON.
 FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITH:
 A. 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCH PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1.
 B. 14 CALENDAR DAYS FOR ALL OTHER DISTURBED AREAS.

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



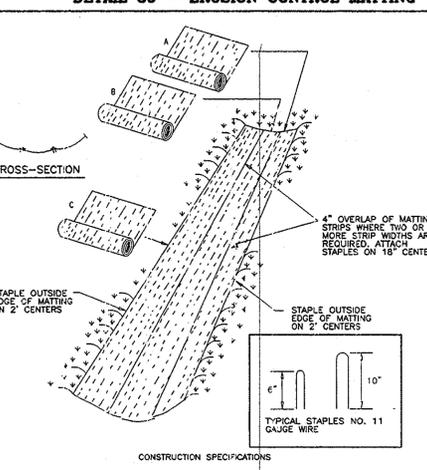
CONSTRUCTION SPECIFICATIONS
 1. LENGTH - MINIMUM OF 10' (1-20' FOR A SINGLE RESIDENCE LOT).
 2. WIDTH - 10' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
 3. DISTURBED SURFACE (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND (OR 1/2" RADIUS STONE) - THE PLAN APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE ROWS RELOCATED TO USE GORGE.
 4. STONE - CALSIED AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE FROM THE ENTRANCE.
 5. SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE 4" TO 6" DEPTH. THE ENTRANCE MAINTAINING PROPER DRAINAGE. ARE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A 1/2" RADIUS BUSH WITH 3/4" SLOPES AND A MINIMUM OF 6" OF STONE OVER THE PIPE. PIPE SIZE TO BE 3" TO 4" IN DIAMETER. THE AMOUNT OF RAINFALL TO BE COLLECTED AT A HIGH SPOT (A) HAS NO CHANCE TO JOINED. A PIPE SHALL NOT BE NECESSARY, PIPE SHOULD BE SIZED ACCORDING TO THE AMOUNT OF RAINFALL TO BE COLLECTED. A 6" MINIMUM WILL BE REQUIRED.
 6. JOINTS - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES SAIDING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.
 U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 7-17 MARYLAND DEPARTMENT OF ENVIRONMENT AND WATER MANAGEMENT ADMINISTRATION WATER MANAGEMENT ADMINISTRATION U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 1-15-2 MARYLAND DEPARTMENT OF ENVIRONMENT AND WATER MANAGEMENT ADMINISTRATION WATER MANAGEMENT ADMINISTRATION

DETAIL 22 - SILT FENCE



CONSTRUCTION SPECIFICATIONS
 1. FENCE POSTS SHALL BE A MINIMUM OF 24' LONG, 12" MINIMUM INTO THE EXISTING GROUND. POSTS SHALL BE 1 1/2" x 1 1/2" SQUARE (MINIMUM) CUT OR 1 1/2" x 1 1/2" ROUND (MINIMUM) ROUND AND SHALL BE OF SOUND CLASTIC HARDWOOD. FENCE POSTS SHALL BE STANDED 1' OR 2' SECTION BEHIND NOT LESS THAN 1'00' FROM THE EXISTING ROAD.
 2. GEOTEXTILE SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE 1/2" OR STAPLES 1/2" OR MORE SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS:
 FIP GEOTEXTILE CLASS F: 80 LB/LIN (400) TEST: MFT 509
 FENCE 1333333: 20 LB/LIN (400) TEST: MFT 509
 FLOW RATE: 0.3 GPM (1.5) TEST: MFT 322
 FILTERING EFFICIENCY: 75% (14") TEST: MFT 322
 3. WEDGE EDGES OF GEOTEXTILE FABRIC COVE TOGETHER, THEY SHALL BE OVERLAPPED, FLOODED AND GUARDED TO PREVENT SEEPAGE.
 4. S. FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED WHEN BECOMES BOOBY OR WHEN SEDIMENT ACCUMULATION REACHES TOP OF THE FABRIC RIGIDITY.
 U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 7-17 MARYLAND DEPARTMENT OF ENVIRONMENT AND WATER MANAGEMENT ADMINISTRATION WATER MANAGEMENT ADMINISTRATION U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 1-15-2 MARYLAND DEPARTMENT OF ENVIRONMENT AND WATER MANAGEMENT ADMINISTRATION WATER MANAGEMENT ADMINISTRATION

DETAIL 30 - EROSION CONTROL MATTING



CONSTRUCTION SPECIFICATIONS
 1. KEY-IN THE MATTING BY PLACING THE TOP EDGES OF THE MATTING IN A NARROW TRENCH 6" IN DEPTH. BACKFILL THE TRENCH AND TAMP FIRMLY TO CONFORM TO THE CHANNEL CROSS-SECTION. SECURE WITH A ROW OF STAPLES ABOUT 4" DOWN SLOPE FROM THE TRENCH. SPACING BETWEEN STAPLES IS 6".
 2. STAPLE THE 4" OVERLAP IN THE CHANNEL CENTER USING AN 18" SPACING BETWEEN STAPLES.
 3. BEFORE STAPLING THE OUTER EDGES OF THE MATTING, MAKE SURE THE MATTING IS SMOOTH AND IN FIRM CONTACT WITH THE SOIL.
 4. STAPLES SHALL BE PLACED 2' APART WITH 4 ROWS FOR EACH STRIP. 2 OUTER ROWS, AND 2 ALTERNATING ROWS DOWN THE CENTER.
 5. WHERE ONE ROLL OF MATTING ENDS AND ANOTHER BEGINS, THE END OF THE TOP STRIP SHALL OVERLAP THE UPPER END OF THE LOWER STRIP BY 4". SHIPLAP FABRICS, REINFORCE THE OVERLAP WITH A DOUBLE ROW OF STAPLES SPACED 6" APART IN A STAGGERED PATTERN ON EITHER SIDE.
 6. THE DISCHARGE END OF THE MATTING LINER SHOULD BE SIMILARLY SECURED WITH 2 DOUBLE ROWS OF STAPLES.
 NOTE: IF FLOW WILL ENTER FROM THE EDGE OF THE MATTING THEN THE AREA EFFECTED BY THE FLOW MUST BE KEYED-IN.
 U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 6-22-2 MARYLAND DEPARTMENT OF ENVIRONMENT AND WATER MANAGEMENT ADMINISTRATION WATER MANAGEMENT ADMINISTRATION

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE 6-22-2	MARYLAND DEPARTMENT OF ENVIRONMENT AND WATER MANAGEMENT ADMINISTRATION
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OWNER
 JOHN T. CLARK
 GLORIA J. CLARK
 5801 ATHOL AVE
 ELK RIDGE MD 21075-5807

BUILDER
 MAIN STREET BUILDERS, INC.
 5705 LANDING ROAD
 ELK RIDGE, MARYLAND 21075
 410-796-2003

NO.	REVISION	DATE

SITE DEVELOPMENT PLAN
SEDIMENT & EROSION CONTROL DETAILS
HARWOOD PARK LOT 1277
 TAX MAP 38 GRID 13 PARCEL 873
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL
ENGINEERING, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 8407 MAIN STREET, ELLICOTT CITY, MD 21043
 TEL: 410.461.7666
 FAX: 410.461.8961

PROFESSIONAL CERTIFICATE
 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. 16193 EXPIRATION DATE: 09-27-2012

DESIGN BY: JSC
 DRAWN BY: HS
 CHECKED BY: RHY
 DATE: OCTOBER 2010
 SCALE: AS SHOWN
 W.O. NO.: 04-53.14

3 5-FEET OF 3

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DIRECTOR

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 JOHN R. ROBERTSON
 HOWARD S.C.D.

BY THE DEVELOPER:
 I HEREBY 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.
 SIGNATURE OF DEVELOPER
 DATE

BY THE ENGINEER:
 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, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 SIGNATURE OF ENGINEER
 DATE