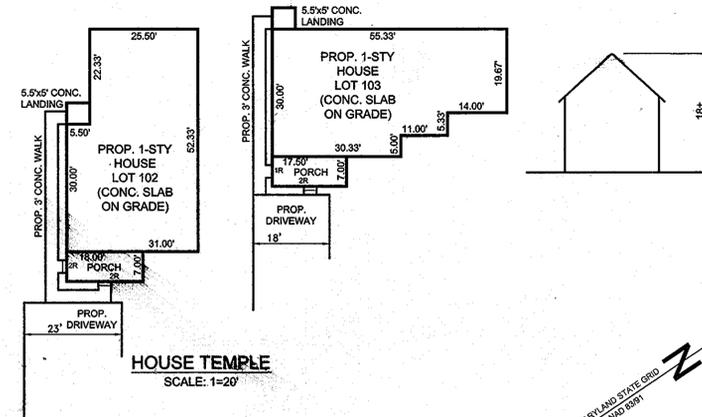


GENERAL NOTES

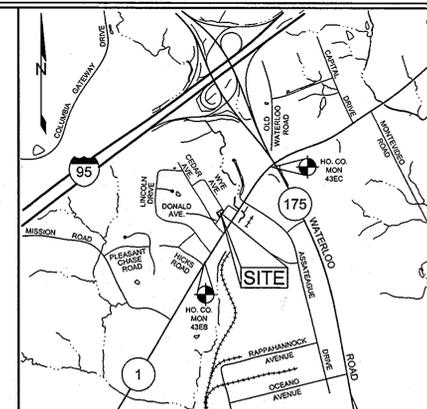
- SUBJECT PROPERTY IS ZONED "R-SC" PER THE 2002/04 COMPREHENSIVE ZONING PLAN AND THE "COMP-LITE" ZONING AMENDMENTS EFFECTIVE 7/28/05.
- GROSS AREA OF PROPERTY = 0.31 AC ±.
- NUMBER OF PROPOSED BUILDABLE LOTS: 2
- AREA OF PROPOSED BUILDABLE LOTS = 0.31 AC ±.
- PROPERTY IS WITHIN THE METROPOLITAN DISTRICT.
- PUBLIC WATER AND PUBLIC SEWER WILL BE USED WITHIN THIS SITE.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

STATE HIGHWAY ADMINISTRATION	410.531.5533
BGE(CONTRACTOR SERVICES)	410.850.4620
BGE(UNDERGROUND DAMAGE CONTROL)	410.787.9069
MISS UTILITY	1.800.257.7777
COLONIAL PIPELINE COMPANY	410.795.1390
HOWARD COUNTY, DEPT. OF PUBLIC WORKS, BUREAU OF UTILITIES	410.313.4900
HOWARD COUNTY HEALTH DEPARTMENT	410.313.2640
AT&T	1.800.252.1133
VERIZON	1.800.743.0033/410.224.9210
- PREVIOUS HOWARD COUNTY FILE NUMBERS: CONTR. #24-3811; CONTR. #676-S; WP-07-073; AA-08-007.
- FIELD RUN BOUNDARY SURVEY PREPARED BY ATCS, P.L.C., ON OR ABOUT MARCH 27, 2007. TOPOGRAPHY IS BASED ON A FIELD RUN TOPOGRAPHIC SURVEY PREPARED BY ATCS, P.L.C., ON OR ABOUT JULY 13, 2007.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- ANY DAMAGE TO THE COUNTY'S PUBLIC RIGHT-OF-WAYS, PAVING OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING, CONSTRUCTION INSPECTION DIVISION AT (410) 313-1800 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY IN ADDITION TO MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THIS PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
- EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION. 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. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- SOIL COMPACTION SPECIFICATIONS, REQUIREMENTS, METHODS AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER. DRIVEWAY PAVING TO BE HOWARD COUNTY STANDARD P-1 PAVING SECTION (SEE DETAIL, THIS SHEET). GEOTECHNICAL ENGINEER TO CONFIRM ACCEPTABILITY OF PROPOSED PAVING SECTION BASED ON SOIL TEST, PRIOR TO CONSTRUCTION.
- ESTIMATES OF EARTHWORK QUANTITIES ARE PROVIDED SOLELY FOR THE PURPOSE OF CALCULATING FEES.
- ALL TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENTS 43EB AND 43EC, WERE USED FOR THIS PROJECT.
- 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.
- DRIVEWAY(S) SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING REQUIREMENTS:
 - WIDTH - 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE);
 - SURFACE - SIX (6) INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MINIMUM);
 - GEOMETRY - MAXIMUM 14% GRADE, MAXIMUM 10% GRADE CHANGE AND 45-FOOT TURNING RADIUS;
 - STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25-LOADING);
 - DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE;
 - MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE
- FOR DRIVEWAY ENTRANCE DETAILS REFER TO THE HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD DETAIL R-6.06.
- SEWER HOUSE CONNECTION (SHC) TO BE AT 2'0" MINIMUM. CLEANOUTS ARE TO BE PROVIDED AT ALL BENDS. SEWER HOUSE CONNECTION ELEVATIONS SHOWN ARE LOCATED AT THE PROPERTY LINE.
- EXISTING WATER HOUSE CONNECTION (WHC) IS COPPER. EXISTING SEWER HOUSE CONNECTION (SHC) IS PVC. EXISTING WATER AND SEWER HOUSE CONNECTIONS TO BE UTILIZED AND EXTENDED TO PROPOSED HOUSES.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS, STREAMS OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100 YEAR FLOODPLAIN.
- THERE ARE NO WETLANDS, FLOODPLAINS, HISTORIC STRUCTURES, STEEP SLOPES OR CEMETERIES LOCATED ON-SITE.
- THIS PLAN IS EXEMPT FROM LANDSCAPE REQUIREMENTS SINCE THESE LOTS ARE INTERNAL TO THE CEDARS SUBDIVISION.
- THIS PROJECT IS EXEMPT FROM THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BECAUSE WE ARE A SINGLE LOT SMALLER THAN 40,000 SQUARE FEET PER SECTION 16.1202(B) OF THE COUNTY CODE.
- IN ACCORDANCE WITH THE 2000 MARYLAND STORMWATER DESIGN MANUAL, PROJECTS SHALL BE EXEMPT FROM STORMWATER MANAGEMENT OBLIGATIONS IF IT HAS LESS THAN 5,000 SQUARE FEET OF LAND COVER CHANGE. THIS PLAN PROPOSES 3,441 SQUARE FEET OF LAND COVER CHANGE AND THEREFORE IS EXEMPT FROM PROVIDING STORMWATER MANAGEMENT.
- BASED UPON HOWARD COUNTY ADMINISTRATIVE ADJUSTMENT HEARING (AA CASE NO. 08-007), DATED: MARCH 31, 2008, THE PETITION FOR HABITAT FOR HUMANITY OF HOWARD COUNTY FOR AN ADMINISTRATIVE ADJUSTMENT FROM SECTIONS 110 D.4.1 (H) TO 110 D.4.1 (K) TO RECONFIGURE THE REQUIRED REAR SETBACK FROM 30' TO 25' FOR A PROPOSED SINGLE-FAMILY DETACHED DWELLING WAS GRANTED AN APPROVAL AND IS SUBJECT TO THE FOLLOWING FOUR CONDITIONS AS STATED IN THE A.A. CASE DECISION AND ORDER:
 - THE PETITIONER SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND COUNTY LAWS AND REGULATIONS.
 - THE GRANTED ADMINISTRATIVE ADJUSTMENT SHALL APPLY SOLELY TO THE PROPOSED SINGLE-FAMILY DETACHED DWELLING AS DEPICTED ON THE ADMINISTRATIVE ADJUSTMENT PLAN SUBMITTED BY THE PETITIONER AND NOT TO ANY OTHER STRUCTURE, ADDITION, BUILDING OR USE.
 - A BUILDING PERMIT FOR THE SINGLE-FAMILY DETACHED DWELLING SHALL BE OBTAINED WITHIN TWO YEARS FROM THE DATE OF THIS ORDER AND SUBSTANTIAL CONSTRUCTION SHALL BE COMPLETED WITHIN THREE YEARS. A BUILDING PERMIT APPLICATION FOR THE ADDITION WILL NOT BE GRANTED ZONING APPROVAL UNLESS A COPY OF THIS DECISION AND ORDER IS SUBMITTED AS DOCUMENTATION WITH THE BUILDING PERMIT APPLICATION.
 - THIS DECISION AND ORDER SHALL BE MAINTAINED IN THE OWNERS PROPERTY RECORDS AND SHALL BE TRANSFERRED TO ANY SUCCEEDING OWNER OF THE PROPERTY.
- BASED UPON A WAIVER PETITION (WP-07-073), THE REQUEST FOR A WAIVER FROM SECTION 16.102 AND SECTION 16.147 RECONFIGURING SUBDIVISION OF A FINAL SUBDIVISION ON PLAT AND TO ALLOW RECORDING OF ADJOINER DEEDS TO RECONFIGURE TWO EXISTING LOTS WAS GRANTED AN APPROVAL ON FEBRUARY 20, 2007, AND IS SUBJECT TO THE FOLLOWING CONDITIONS:
 - WITHIN 6 MONTHS OF THIS WAIVER PETITION APPROVAL (ON OR BEFORE AUGUST 20, 2007) THE APPLICANT MUST FILE THE APPROPRIATE ADJOINER DEED(S) WITH THE HOWARD COUNTY LAND RECORDS OFFICE TO RECONFIGURE THE SUBJECT LOTS AND SUBMIT A COPY OF THE RECORDED ADJOINER DEED(S) FOR THE SUBJECT PROPERTY TO THIS DIVISION FOR FILE RETENTION PURPOSES. THE APPLICANT IS ADVISED THAT THE DEED(S) MUST BE RECORDED IN THE LAND RECORDS OFFICE PRIOR TO THE SUBMISSION OF ANY SITE DEVELOPMENT PLANS FOR THE SUBJECT LOTS.
 - A SITE DEVELOPMENT PLAN WILL BE REQUIRED FOR THE SUBJECT LOTS IN ACCORDANCE WITH SECTION 15.155(a)(2)(ii) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS BECAUSE THE SUBJECT LOTS WILL BE RECONFIGURED OR MERGED THROUGH THE RECORDING PROCESS SINCE FEBRUARY 7, 1976.
 - A NOISE STUDY WAS PERFORMED BY MARS GROUP IN APRIL 2008 FOR INFORMATIONAL PURPOSES ONLY, THE 65-dBA NOISE LINE WAS FOUND NOT TO ENCRUCH ON THIS SITE.
- DEVELOPMENT OR CONSTRUCTION ON THIS PARCEL MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION APPLICATION, OR BUILDING/GRADING PERMIT.
- HOWARD COUNTY HAS A 30' PREScriptive RIGHT-OF-WAY TO DONALD AVENUE AND MAINTAINS THE ROADWAY.



LEGEND

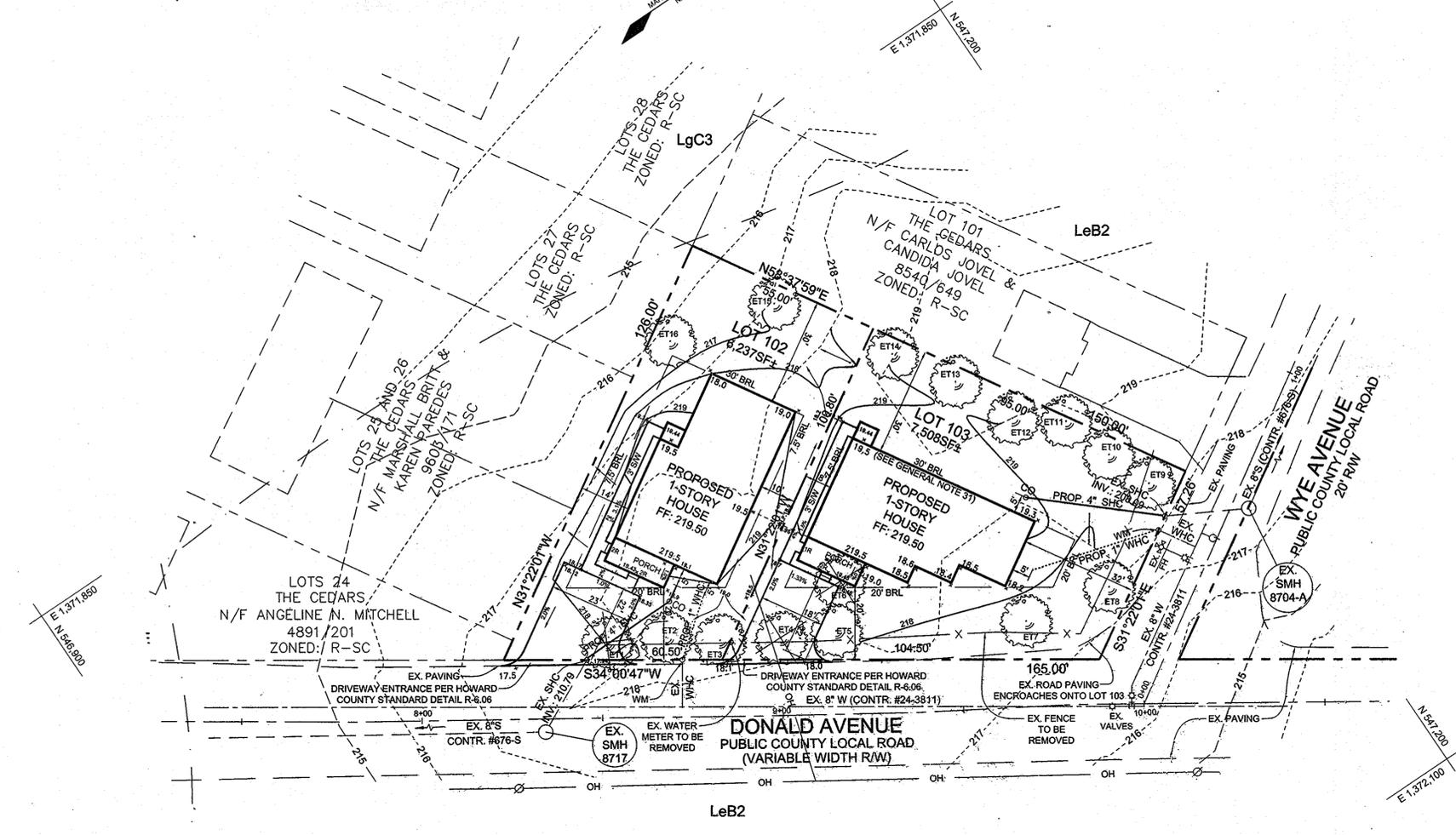
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREES TO REMAIN
- EXISTING SEPTIC SYSTEM DRY WELL
- PROPOSED SHC CLEAN OUT
- PROPOSED WATER METER
- EXISTING OVERHEAD WIRES
- EXISTING BGE POLE
- EXISTING WATER METER



NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
43EB	545,963.6476	1,371,573.8400	216.327	1.2' NW OF CONC. WALK 25' EAST OF LIGHT POLE
43EC	547,821.2715	1,372,882.448	219.706	78' NE OF CENTERLINE OF HICKS ROAD 38.7' SOUTH OF GRATE INLET 2.5' EAST OF FACE OF CURB 7' NORTH OF ELEC. BOX

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

TREE NO.	DESCRIPTION
ET1	18" EASTERN RED CEDAR
ET2	26" SIBERIAN ELM
ET3	14" EASTERN RED CEDAR
ET4	12" GINKGO
ET5	10" SIBERIAN ELM
ET6	10" ASH
ET7	16" MULBERRY
ET8	16" MULBERRY
ET9	16" ASH
ET10	12" MULBERRY
ET11	17" MULBERRY
ET12	14" MULBERRY
ET13	16" ASH
ET14	33" SYCAMORE
ET15	18" CHERRY
ET16	16" EASTERN RED CEDAR



DATE	DESCRIPTION
08-10-12	REVISE THE PLAN TO SHOW NEW ONE-STORY UNITS, REVISED SIDEWALKS AND HANDICAP ACCESS

SUBDIVISION NAME	SECTION / AREA	LOT / PARCEL #
THE CEDARS	NA	102 & 103
PLAT / DEED	GRID #	ZONING
L. 10696 F. 317 & 323	8	R-SC
TAX MAP #	ELECT. DIS.	CENSUS TRACT
43	6TH	6069.01

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 6/10/08
CHIEF, DEVELOPMENT ENGINEERS DIVISION DATE

[Signature] 6/11/08
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 6/14/08
DIRECTOR DATE

SEC. NO.	ROAD AND STREET CLASSIFICATION	CALIFORNIA BEARING RATIO (CBR)	3 TO <5 TO <7	7 TO <9 TO <17	17 TO <27
		PAVEMENT MATERIAL (INCHES)	MIN HMA WITH GAB	HMA WITH CONSTANT GAB	
P-1	PARKING BAYS: RESIDENTIAL AND NON-RESIDENTIAL PARKING DRIVE AISLES: RESIDENTIAL AND NON-RESIDENTIAL WITH NO MORE THAN 3 HEAVY TRUCKS PER DAY	HMA SUPERPAVE FINAL SURFACE 9.5 MM, PG 64-22, LEVEL 1 (ESAL)	1.5	1.5	1.5
		HMA SUPERPAVE INTERMEDIATE SURFACE (NA)	N/A	N/A	N/A
		HMA SUPERPAVE BASE 18.0 MM, PG 64-22 LEVEL 1 (ESAL)	2.0	2.0	2.5
		GRADED AGGREGATE BASE (GAB)	8.5	7.0	4.0

NOTES:

- HEAVY TRUCKS ARE DEFINED AS THOSE WITH SIX (6) WHEELS OR MORE INCLUDING GARBAGE TRUCKS.
- HMA SUPERPAVE LAYERS SHALL BE PLACED IN APPROPRIATE COMPACTED LIFT THICKNESS: 19.0 MM BASE (2.0" MIN TO 4.0" MAX), 12.5 MM SURFACE (1.5" MIN TO 3.0" MAX), AND 9.5 MM SURFACE (1.0" MIN TO 2.0" MAX).
- GRADED AGGREGATE BASE (GAB) TO BE PLACED AND COMPACTED IN 6" MAX COMPACTED THICKNESS LAYERS.
- THE INTERMEDIATE SURFACE COURSE LAYER MUST BE PLACED WITHIN 2 WEEKS OF PLACEMENT OF BASE COURSE, AND IS REQUIRED PRIOR TO SUBSTANTIAL COMPLETION INSPECTION AND BOND REDUCTION.
- IN LIEU OF PLACING THE INTERMEDIATE SURFACE COURSE LAYER FOR COMMERCIAL INDUSTRIAL ENTRANCE APPROX WITHIN THE COUNTY RIGHT-OF-WAY WHERE AUXILIARY LANES ARE NOT REQUIRED, THE THICKNESS OF THE INTERMEDIATE PAVEMENT LAYER CAN BE ADDED TO THE REQUIRED THICKNESS OF THE BASE ASPHALT LAYER.
- THE CONSTRUCTION DRAWINGS SHALL SHOW THE PAVING SECTION, ROAD CLASSIFICATION AND CRB VALUE FOR EACH ROADWAY.

TOTAL PROJECT AREA	AREA OF SUBMISSION	DISTURBED AREA	PRESENT ZONING
0.314 AC ±	0.31 AC ±	0.24 AC	R-SC
PROPOSED USE	FLOOR SPACE PER USE	TOTAL UNITS ALLOWED	TOTAL UNITS PROPOSED
RESIDENTIAL	1,480 S.F.	2	2
MAX. # EMPLOYEES/TENANTS	PARKING SPACES REQ.	PARKING SPACES PROV.	HC SPACES PROVIDED
NA	4	4	NA
OPEN SPACE REQUIRED	OPEN SPACE PROVIDED	REC. O.S. FILED	REC. O.S. PROVIDED
NA	NA	NA	NA
BUILDING COVERAGE	FLOOR AREA RATIO	DPZ FILE REFERENCES	
2,760 S.F./0.07 AC	NA	CONTR. #24-3811; CONTR. #676-S; WP-07-073; AA-08-007	

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. 33351. Expiration Date 06-30-2014.

[Signature]

KCW Engineering Technologies, Inc.
810 Landmark Drive, Suite 215
Glen Burnie, MD 21061
Phone: 410.768.7000
Fax: 410.768.0200
www.kcw-et.com

KCW J.O.: 2110505
SCALE 1" = 20'
DRAWN: MT
DESIGNED: MT
CHECKED: KCA
DATE: AUG 10, 2012

PURPOSE OF REVISED SITE DEVELOPMENT PLAN: TO CHANGE PROPOSED BUILDINGS FROM 2-STORY TO 1-STORY AND TO ACCOMMODATE CHANGES TO THE BUILDING FOOTPRINTS IN ORDER TO MAKE NEW BUILDINGS COMPLETELY HANDICAPPED ACCESSIBLE.

LOT	STREET ADDRESS
102	8035 DONALD AVENUE
103	8031 DONALD AVENUE

DEVELOPER
HUMANIM, INC.
C/O JUDY OLINGER
655 WOODSIDE CT.
COLUMBIA, MD 21046
410.381.7171

OWNER/DEVELOPER
HABITAT FOR HUMANITY
OF HOWARD COUNTY
C/O DAVID ROURA
PO BOX 56
COLUMBIA, MARYLAND 21045
410.997.4049

REVISED SITE DEVELOPMENT PLAN

THE CEDARS
REVISED LOTS 102 AND 103
SINGLE FAMILY DETACHED UNITS

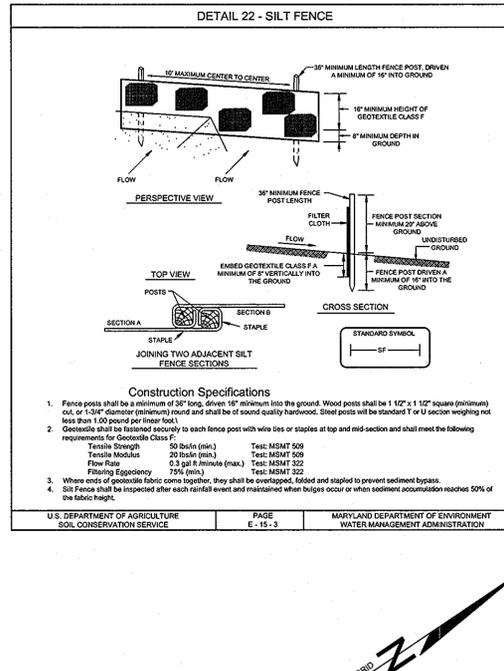
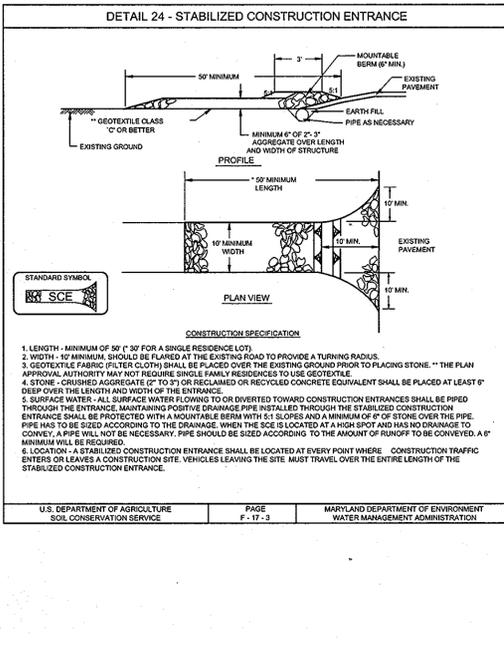
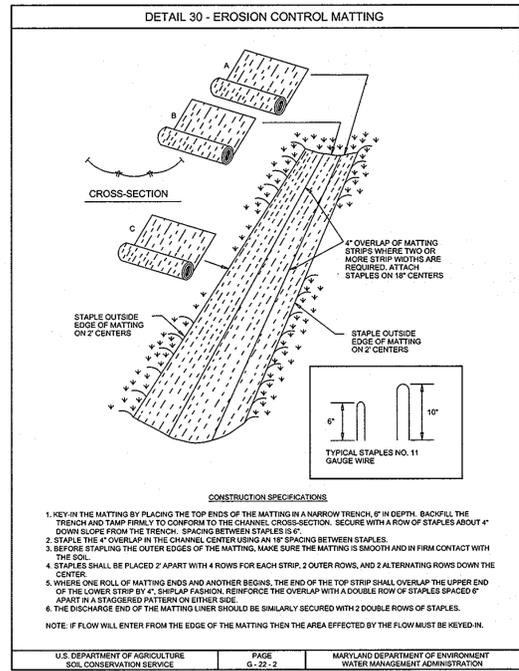
TAX MAP 43 GRID 8
6TH ELECTION DISTRICT

PARCEL 171
HOWARD COUNTY, MARYLAND

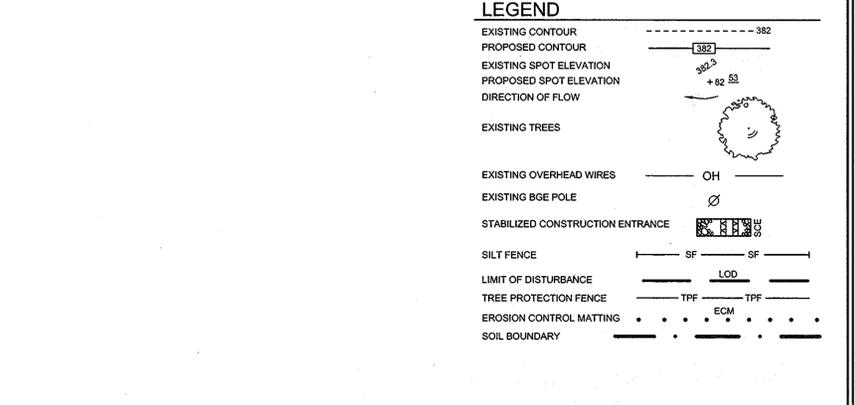
Sill · Adcock & Associates · LLC
Engineers · Surveyors · Planners
5300 North Ridge Road, Suite 160
Ellicott City, Maryland 21043
Phone: 443.325.7682 Fax: 443.325.7685
Email: info@saand.com

DESIGN BY: PS
DRAWN BY: PS
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MAY 12, 2008
PROJECT #: 07-064
SHEET #: 1 of 2

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. 33025, EXPIRATION DATE: JUNE 06, 2009



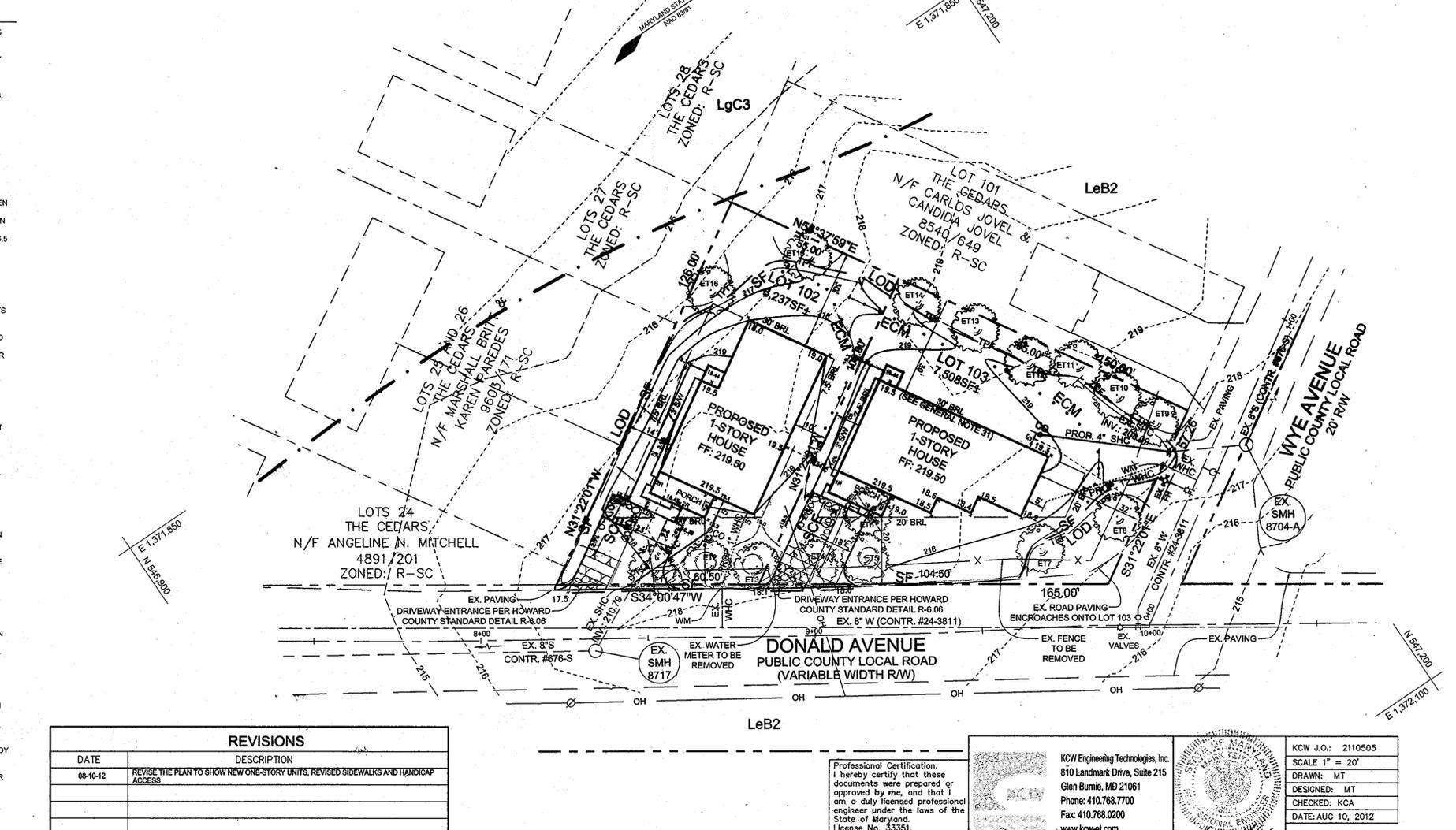
PERMANENT SEEDING NOTES
 APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.
 SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.
 SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES
 1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.
 2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND APPLY 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.
 SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.05 LBS/1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH 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 GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (6 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 6 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.
 MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.
TEMPORARY SEEDING NOTES
 SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.
 SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.)
 SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (32 LBS/1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (0.07 LBS/1000 SQ.FT.). FOR THE PERIOD NOVEMBER 1 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL 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 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (6 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 6 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.
 REFER TO THE 1984 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.



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 (410.319-185).
 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, AND REVISIONS THEREOF.
 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, PERMETER 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 TRAPBASINS 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, SOD, TEMPORARY SEEDING, AND MULCHING (SEC. G). 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: 0.31 ACRES
 AREA DISTURBED: 0.27 ACRES
 AREA TO BE ROOFED OR PAVED: 0.11 ACRES
 AREA TO BE VEGETATIVELY STABILIZED: 0.16 ACRES
 TOTAL CUT: 50 *48*CY
 TOTAL FILL: 150 *48*CY
 OFFSITE WASTE/BORROW AREA LOCATION:
 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 PERMETER 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.
 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.
 12. SHORTWORK QUANTITIES ARE SOLELY FOR THE PURPOSE OF CALCULATING FEES. CONTRACTOR TO VERIFY ALL QUANTITIES PRIOR TO THE START OF CONSTRUCTION.
 13. TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT.

21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOILS

DEFINITION
 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
 I. THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
 A. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
 B. 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.
 C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
 D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
 II. 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
 I. 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 USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.
 II. TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
 I. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY 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 CINNERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIAL LARGER THAN 1 AND 1/2" IN DIAMETER.
 II. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
 III. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.
 II. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
 I. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
 III. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:
 I. ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS INDICATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:
 A. PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE THE PH TO 6.5 OR HIGHER.
 B. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.
 C. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.
 D. NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.
 NOTE: TOPSOIL, SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.
 II. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
 V. TOPSOIL APPLICATION
 I. WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH BANKS, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.
 II. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY GRADENED, SHALL BE MAINTAINED, ALBEIT 4"-8" HIGHER IN ELEVATION.
 III. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4"-8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
 IV. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.



REVISIONS

DATE	DESCRIPTION
08-10-12	REVISE THE PLAN TO SHOW NEW ONE-STORY UNITS, REVISED SIDEWALKS AND HANDICAP ACCESS

ENGINEERS CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 SIGNATURE OF ENGINEER: MARK TSITLIK, P.E.
 DATE: 08/10/12

DEVELOPER'S CERTIFICATE
 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 COUNTY DEPARTMENT OF PLANNING AND ZONING.
 SIGNATURE OF DEVELOPER: JUDY O'LEARY
 DATE: 08/10/12

PURPOSE OF REVISED SITE DEVELOPMENT PLAN:
 TO CHANGE PROPOSED BUILDINGS FROM 2-STORY TO 1-STORY AND TO ACCOMMODATE CHANGES TO THE BUILDING FOOTPRINTS IN ORDER TO MAKE NEW BUILDINGS COMPLETELY HANDICAPPED ACCESSIBLE.

SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	GROUP
LeB2	LEGORE SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	C
LgC3	LEGORE SILTY CLAY LOAM, 8 TO 15 PERCENT SLOPES, SEVERELY ERODED	C
ME	MONTALTO AND RELAY SOILS, 15 TO 45 PERCENT SLOPES	B

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. 53351. Expiration Date 08-30-2014.
 Mark Tsitlik
 Professional Engineer

KCW Engineering Technologies, Inc.
 810 Landmark Drive, Suite 215
 Glen Burnie, MD 21061
 Phone: 410.768.7700
 Fax: 410.768.0200
 www.kcw-et.com

KCW J.O.: 2110505
 SCALE 1" = 20'
 DRAWN: MT
 DESIGNED: MT
 CHECKED: KCA
 DATE: AUG 10, 2012

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

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 HOWARD SCD: [Signature]
 DATE: 08/10/12

REVISED SEDIMENT AND EROSION CONTROL PLAN, NOTES AND DETAILS
THE CEDARS
 REVISED LOTS 102 AND 103
 SINGLE FAMILY DETACHED UNITS

TAX MAP 43 GRID B
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 PARCEL 171

DEVELOPER
 HUMANIM, INC.
 C/O JUDI O'LEARY
 6356 WOODSIDE CT.
 COLUMBIA, MD 21046
 410.381.7171

OWNER/DEVELOPER
 HABITAT FOR HUMANITY
 OF HOWARD COUNTY
 C/O DAVID ROURA
 PO BOX 56
 COLUMBIA, MARYLAND 21045
 410.877.4949

Sill · Adcock & Associates · LLC
 Engineers · Surveyors · Planners
 3300 North Ridge Road, Suite 160
 Elliott City, Maryland 21043
 Phone: 443.325.7682 Fax: 443.325.7685
 Email: info@saaland.com

DESIGN BY: PS
 DRAWN BY: PS
 CHECKED BY: PS
 SCALE: 1"=30'
 DATE: MAY 12, 2008
 PROJECT #: 07-064
 SHEET #: 2 of 2

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. 32025, EXPIRATION DATE: JUNE 06, 2009