

**GENERAL NOTES**

- SUBJECT PROPERTY IS ZONED "R-20" PER THE 2/02/04 COMPREHENSIVE ZONING PLAN AND THE "COMP. LITE" ZONING AMENDMENTS EFFECTIVE 7/2008.
- GROSS AREA OF SITE SUBJECT TO SUBDIVISION = 3.349 AC.±
- NET AREA OF SITE = 3.349 AC.±
- AREA OF PROPOSED PUBLIC RW: 0.231 AC.±
- NUMBER OF PROPOSED BUILDABLE LOTS: 4
- AREA OF PROPOSED BUILDABLE LOTS: 2.734 AC.±
- NUMBER OF PROPOSED OPEN SPACE LOTS: 2
- AREA OF PROPOSED OPEN SPACE LOT: 0.384 AC.±
- OPEN SPACE REQUIRED (10% OF GROSS AREA OF SITE SUBJECT TO SUBDIVISION): 0.334 AC.±
- OPEN SPACE PROVIDED: 0.384 AC.±
- THIS PROPERTY IS WITHIN THE METROPOLITAN DISTRICT.
- THIS PROPERTY IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS EFFECTIVE 10/2003 PER COUNCIL BILL 75-2003.
- PUBLIC WATER AND PUBLIC SEWER WILL BE WITHIN THIS SITE. WATER AND SEWER SERVICE WILL BE PROVIDED BY AN EXTENSION OF CONTRACT #24-3668-D UNDER CONTRACT #24-4567-D.
- HOWARD COUNTY SOILS MAP 15.
- BOUNDARY SURVEY AND TOPOGRAPHY WERE PREPARED BY SILL, ADCOCK & ASSOCIATES, LLC ON OR ABOUT DECEMBER, 2007.
- THERE ARE NO STEEP SLOPES, WETLANDS, STREAMS, HISTORIC STRUCTURES OR CEMETERIES WITHIN THE PROJECT BOUNDARY.
- 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	410.831.5533
BGE (CONTRACTOR SERVICES)	410.850.4620
BGE (UNDERGROUND DAMAGE CONTROL)	410.787.9068
MISS UTILITY	1.800.257.7777
COLONIAL PIPELINE COMPANY	410.795.1380
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	1.800.743.0034/10.224.9210
- PREVIOUS HOWARD COUNTY FILE NUMBERS: SP-08-12; WP-08-114; WP-09-056; WP-09-235; CONT # 24-3668-D; CONT # 24-4567-D.
- 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 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) 313-9800 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY IN ADDITION TO MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE 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 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.
- ALL HOPE PIPE SPECIFICATION AND INSTALLATION SHALL MEET AASHTO M-252 TYPE S, M-294 TYPE S AND ASTM D2321, RESPECTIVELY.
- 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. GEOTECHNICAL ENGINEER TO CONFIRM ACCEPTABILITY OF PROPOSED PAVING SECTION, BASED ON SOIL TEST, PRIOR TO CONSTRUCTION.
- ESTIMATES OF GARTHWICK 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 NUMBERS 1618 AND 1619 WERE USED FOR THIS PROJECT.
- 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 (CAPABLE OF SUPPORTING 25 GROSS TONS (25K 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.
- 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 RECREATION EASEMENT AREAS.
- ALL DITCHES AND SWALES WILL HAVE EROSION CONTROL MATTING.
- STORMWATER MANAGEMENT IS PROVIDED FOR THIS PROJECT. WATER QUALITY AND RECHARGE OBLIGATIONS WILL BE MET BY UTILIZING ROOFTOP DISCONNECTS AND DRY WELLS. AREAS NOT UTILIZING ROOFTOP DISCONNECTS WILL BE TREATED BY BIORETENTION FACILITIES (F-6) WHICH WILL BE PRIVATELY OWNED AND MAINTAINED. CHANNEL PROTECTION IS NOT REQUIRED SINCE THE POST DEVELOPED 1 YEAR STORM RUNOFF IS LESS THAN 2 CFS. A PORTION OF THE SITE RUNOFF FLOWS TO THE EXISTING POND ON THE CORNELL PROPERTY VIA CORNELL LAKE. MODIFICATIONS TO THE WEIR WALL AND ORIFICE HAVE BEEN COMPLETED BY REDLINE REVISION TO F-98-163, SHEET 3, IN ORDER TO MAINTAIN PRE-EXISTING CONDITION RUNOFF OF THE 2 YR AND 10 YR STORMS. THESE MODIFICATIONS AS SHOWN ON F-98-163, SHEET 3, ARE TO BE COMPLETED UNDER THIS PLAN.
- FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING WILL BE POSTED AS PART OF THE DEVELOPERS AGREEMENT IN THE AMOUNT OF \$7,500.00 (25 SHADE TREES @ \$300.00 EACH). STREET TREES AND PERIMETER LANDSCAPE TREES WILL BE PLANTED AT THE SITE DEVELOPMENT PLAN STAGE. LANDSCAPING FOR LOTS 1 THRU 6 WILL BE PROVIDED FOR AT THE SITE DEVELOPMENT PLAN STAGE IN ACCORDANCE WITH SECTION 16.124 OF THE SUBDIVISION REGULATIONS AND THE LANDSCAPE MANUAL.
- STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURES AND POLES SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME III (2006), SECTION 05.A. A MINIMUM OF TWENTY FEET (20') SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE. SEE STREET LIGHT TABLE THIS SHEET.
- ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A TWO INCH (2") GALVANIZED STEEL, PERFORATED, SQUARE TUBE POST (14 GAUGE) INSERTED INTO A TWO AND A HALF INCH (2-1/2") GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE) THREE FEET (3') LONG. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.
- ARTICLES OF INCORPORATION FOR THE HOMEOWNERS ASSOCIATION WILL BE RECORDED CONCURRENTLY WITH THE RECORDED OF THE PLAN.
- THE TRAFFIC STUDY AND NOISE STUDY FOR THIS PROJECT WERE PREPARED BY MARS GROUP, DATED FEBRUARY 2008 AND APPROVED UNDER SP-08-12.
- OPEN SPACE LOT 7 TO BE OWNED AND MAINTAINED BY HOWARD COUNTY RECREATION AND PARKS. ACCESS TO OPEN SPACE LOT 7 WILL BE PROVIDED BY AN EXISTING FEE SIMPLE STRIP ALONG THE PROPERTY LINE BETWEEN THE CORNELL PROPERTY AND STONEFIELD II, WHICH CURRENTLY PROVIDES ACCESS TO OPEN SPACE LOT 12 ON PARCEL 16. OPEN SPACE LOT 8 TO BE OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION. ACCESS TO OPEN SPACE LOT 8 WILL BE PROVIDED BY A 20 FOOT WIDE PRIVATE ACCESS EASEMENT RUNNING THROUGH LOTS 5 AND 6.
- THIS PLAN COMPLES WITH THE REQUIREMENTS OF SECTION 16.120 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BY THE ON-SITE RETENTION OF 0.18 ACRES (7,841 SF) OF FOREST, AFFORESTATION/REFORESTATION PLANTING OF 0.17 ACRES (7,405 SF) OF FOREST AND THE REMAINING 0.46 ACRES (20,037 SF) OF FOREST PLANTING WILL BE PROVIDED BY THE FRIENDSHIP LAKES FOREST MITIGATION BANK (SDP-02-117). SURETY IN THE AMOUNT OF \$5,271.00 FOR REFORESTATION SHALL BE PAID WITH THE DEVELOPERS AGREEMENT UNDER THIS PLAN.
- THIS PROJECT IS ADJACENT TO A SCENIC ROAD (FREDERICK ROAD) AND IS SUBJECT TO THE SCENIC ROAD GUIDELINES, SECTION 16.125 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
- A WAIVER PETITION (WP-08-114) TO WAIVE SECTION 16.118(N)(1) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS TO PERMIT THE RETENTION OF AN EXISTING DRIVEWAY ONTO MARYLAND ROUTE 144 WAS APPROVED ON JUNE 26, 2008, SUBJECT TO THE FOLLOWING CONDITIONS:
  - THE DRIVEWAY MUST MEET DESIGN MANUAL STANDARDS.
  - A WAIVER PETITION (WP-09-056) TO WAIVE SECTION 16.120(N)(5) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS TO PERMIT THE NOISE LEVEL IN A RESIDENTIAL REAR YARD TO EXCEED THE STANDARD SET IN THE DESIGN MANUAL WAS APPROVED ON NOVEMBER 24, 2008, SUBJECT TO THE FOLLOWING CONDITIONS:
    - REFERENCE THIS WAIVER IN A LABEL UNDER THE MITIGATED NOISE LINE ON THIS PLAN AND THE FORTHCOMING PLAN AND PLAN.
    - APPROVAL IS CONTINGENT TO AT LEAST 25' OF USEABLE REAR YARD DEPTH REMAINING ON THE PLAN AT THE TIME OF CONSTRUCTION OF THE PROPOSED HOMES ON LOTS 5 AND 6.
    - THE HOUSE ON LOT 5 SHOULD BE MOVED AS CLOSE TO THE FRONT BRL AS POSSIBLE TO INCREASE THE SIZE OF THE USEABLE REAR YARD.
    - EXTEND OR WRAP THE NOISE WALL AROUND THE PROPERTY LINES OF LOTS 5 AND 6 TO WHERE THE MITIGATED 65 dba NOISE LINE IS SHOWN ON THE PLAN.
    - PROVIDE AN EASEMENT FOR THE EXTENDED PORTIONS OF THE NOISE WALL THAT FALL ON LOTS 5 AND 6. INCLUDE THIS EASEMENT ON THE RECORD PLAN.
- A WAIVER PETITION (WP-08-235) TO WAIVE SECTION 16.144(N)(3)(i) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS TO GRANT AN EXTENSION OF THE DEADLINE TO SUBMIT FINAL PLANS FOR INITIAL REVIEW WAS APPROVED ON JULY 23, 2009, SUBJECT TO THE FOLLOWING CONDITION:
  - THE FINAL PLAN AND PLAN MUST BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING ON OR BEFORE DECEMBER 18, 2009.
- THE MITIGATED NOISE LINE ALONG FREDERICK ROAD/MD-144 IS BASED ON THE EFFECT OF THE PLACEMENT OF THE STRUCTURE ON THE LOT.
- THE 65 dba NOISE CONTOUR LINE DRAWN ON THIS DEVELOPMENT PLAN IS ADVISORY AS REQUIRED BY HOWARD COUNTY DESIGN MANUAL, CHAPTER 5, REVISED FEBRUARY, 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 RESIDENTS THAT AREAS BEYOND THIS THRESHOLD MAY EXCEED GENERALLY ACCEPTED NOISE LEVELS ESTABLISHED BY THE U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.
- THE FOREST CONSERVATION BANK (SDP (FRIENDSHIP LAKES)) MUST BE RED-LINED TO REFLECT THE OBLIGATION MET WITH THE BANK PRIOR TO THE RECORDED OF THIS SUBDIVISION.
- AS SHOWN ON PLANS, SOME ROOF LEADERS SHALL DRAIN TO DRYWELLS AND BIORETENTION FACILITIES ON THEIR RESPECTIVE LOTS WHEN BEING UTILIZED FOR STORMWATER MANAGEMENT TREATMENT.
- PEDESTRIAN ACCESS FOR OPEN SPACE LOTS 7 & 8 WILL BE PROVIDED THROUGH OPEN SPACE LOT 12 OF THE CORNELL PROPERTY. NOISE WALL MAINTENANCE ACCESS TO OPEN SPACE LOT 8 (TO BE OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION), WILL BE PROVIDED BY AN EASEMENT OVER AND ACROSS LOTS 5 AND 6. NO MAINTENANCE ACCESS TO OPEN SPACE LOT 8 WILL BE GRANTED THROUGH OPEN SPACE LOT 7 (TO BE OWNED AND MAINTAINED BY HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS).
- PER THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, SECTION 16.121(A)(2), LOTS LOCATED WITHIN THE R-20 ZONING DISTRICT MAY BE REDUCED FROM A MINIMUM SIZE OF 20,000 SQUARE FEET TO A MINIMUM SIZE OF 18,000 SQUARE FEET IF AN OPEN SPACE LOT IS DEDICATED TO THE HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS. SINCE LOT 7 IS BEING DEDICATED TO THE HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS, THIS DEVELOPMENT HAS A MINIMUM LOT SIZE OF 18,000 SQUARE FEET.

# FINAL ROAD CONSTRUCTION PLAN

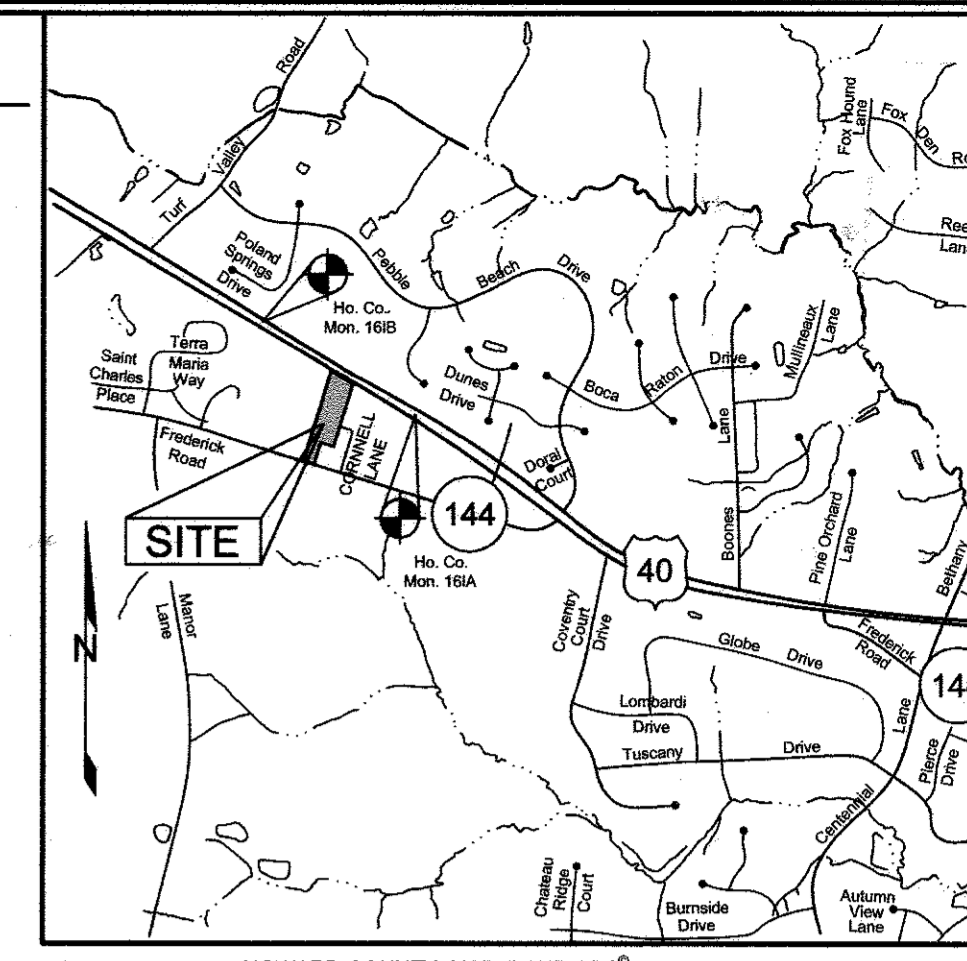
## STONEFIELD II

### LOTS 1-6 AND OPEN SPACE LOTS 7 & 8

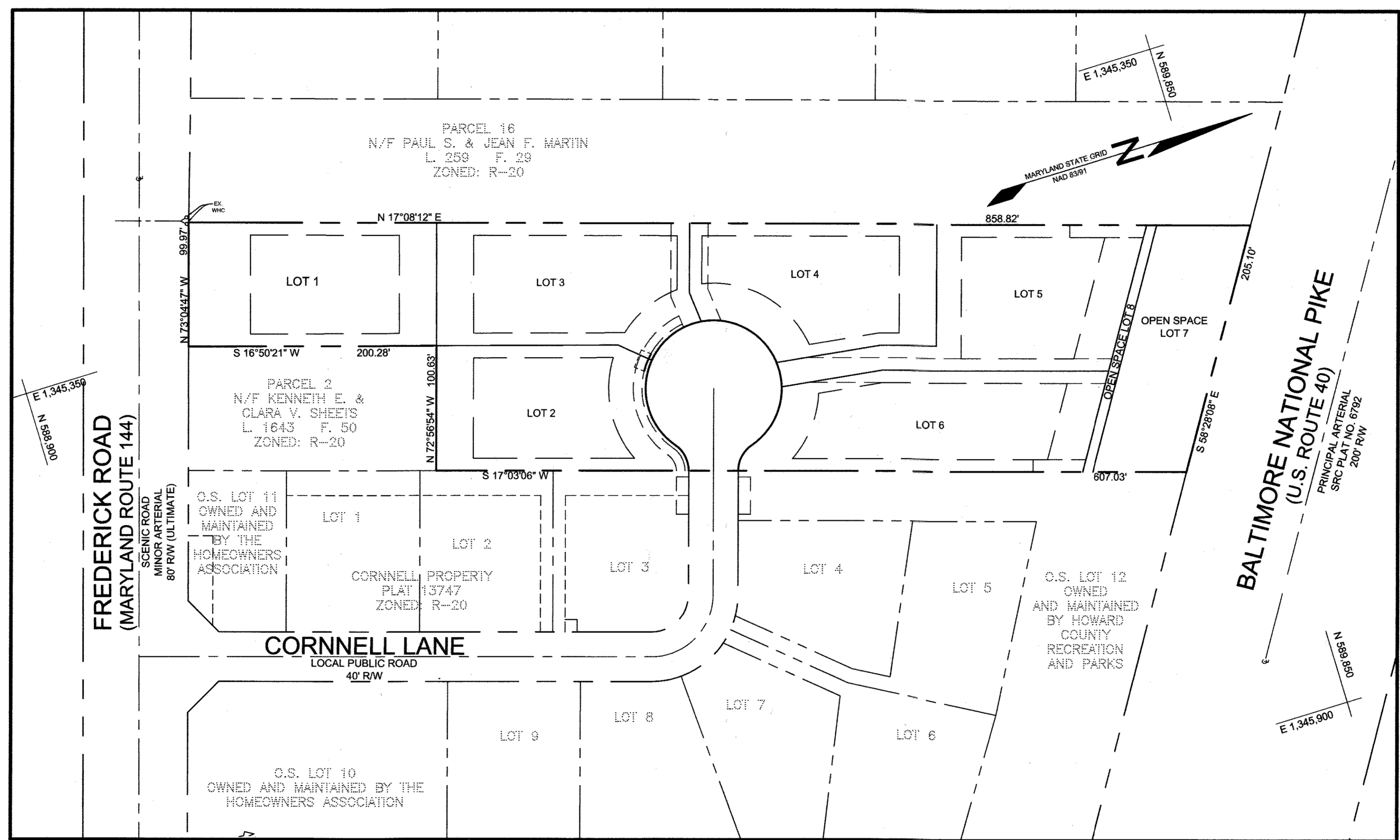
#### HOWARD COUNTY, MARYLAND

**LEGEND**

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREES TO REMAIN
- WALK OUT BASEMENT
- PROPOSED STREET LIGHT
- STORMWATER MANAGEMENT TEST BORING



HOWARD COUNTY, MARYLAND ADC MAP 11 GRID D6  
**VICINITY MAP**  
SCALE: 1"=200'



**SHEET INDEX**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	ROAD PLAN AND PROFILE - CORNELL LANE
3	GRADING, SEDIMENT AND EROSION CONTROL PLAN
4	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS
5	STORM DRAIN DRAINAGE AREA MAP
6	STORM DRAIN PROFILE AND CHARTS
7	BORING LOGS
8	STORMWATER MANAGEMENT - BIORETENTION PLAN, PROFILES, AND CHARTS
9	FINAL LANDSCAPE PLAN
10	FINAL FOREST CONSERVATION PLAN
11	SOUND WALL LOCATION PLAN & DETAILS
12	SOUND WALL LOCATION PLAN & DETAILS

**MINIMUM LOT SIZE CHART**

LOT NUMBER	GROSS AREA (AC)	PIFESTEM AREA (AC)	MINIMUM LOT SIZE (AC)
5	0.4761±	0.0568±	0.4178±

**BENCHMARKS**

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
161A	589,509.366	1,346,343.63	463.085	11' SOUTHWEST OF WBL RT. 40, 134.8' WEST OF CEMETERY LANE SIGNAL, 144.8' NORTH OF FIRST POST IN GUARDRAIL
161B	590,475.256	1,344,753.94	469.987	11.5' SOUTHWEST OF WBL RT. 40, 20.8' WEST OF PK NAIL IN SHOULDER, 66.4' SOUTH OF LAST POST IN GUARDRAIL

**STREET LIGHT TABLE**

FIXTURE TYPE	POLE TYPE	LOCATION	STREET
100 WATT HPS VAPOR PREMIER POST TOP MOUNTED	14" BLACK FIBERGLASS	§ STA. 06+12.22' RIGHT	CORNELL LANE

**ROAD CLASSIFICATION**

ROAD NAME	CLASSIFICATION	PAVING TYPE	DESIGN SPEED	LIMITS OF CONSTRUCTION	R/W
CORNELL ROAD	LOCAL ROAD (ACCESS STREET)	P-2	30	5'+52.71 to 6'+58.78	40'

**LOCATION MAP**  
SCALE: 1"=60'

**AS-BUILT CERTIFICATION**

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

*Michael D. Adcock*  
MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR  
MD REG. NO. 21297 EXPIRATION DATE: 06-16-13

2-10-12  
DATE



AS-BUILT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

*W. J. Sullivan*  
CHIEF, DIVISION OF LAND DEVELOPMENT  
DATE: 4/2/10

*W. J. Sullivan*  
CHIEF, BUREAU OF HIGHWAYS  
DATE: 4-7-10

**OWNER**  
APRIL R. ROBBINS  
5 JOYCE ROAD  
FRAMINGHAM, MA 01701-3365

**DEVELOPER**  
WILLIAMSBURG GROUP, LLC  
C/O ROBERT CORBETT  
5485 HARPERS FARM ROAD, SUITE 200  
COLUMBIA, MD 21044  
410.997.8800

**COVER SHEET**  
**STONEFIELD II**  
LOTS 1-6 AND OPEN SPACE LOTS 7 & 8  
TAX MAP 16 GRID 23  
2ND ELECTION DISTRICT  
PARCEL 235  
HOWARD COUNTY, MARYLAND

**Sill · Adcock & Associates · LLC**  
Engineers · Surveyors · Planners  
3300 North Ridge Road, Suite 160  
Ellicott City, Maryland 21041  
Phone: 443.325.7682 Fax: 443.325.7685  
Email: info@saaland.com

DESIGN BY: PS  
DRAWN BY: PS, JJ, SJT  
CHECKED BY: PS  
SCALE: AS SHOWN  
DATE: MARCH 3, 2010  
PROJECT #: 07-093  
SHEET #: 1 of 12

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. 30202, EXPIRATION DATE: JUNE 20, 2011

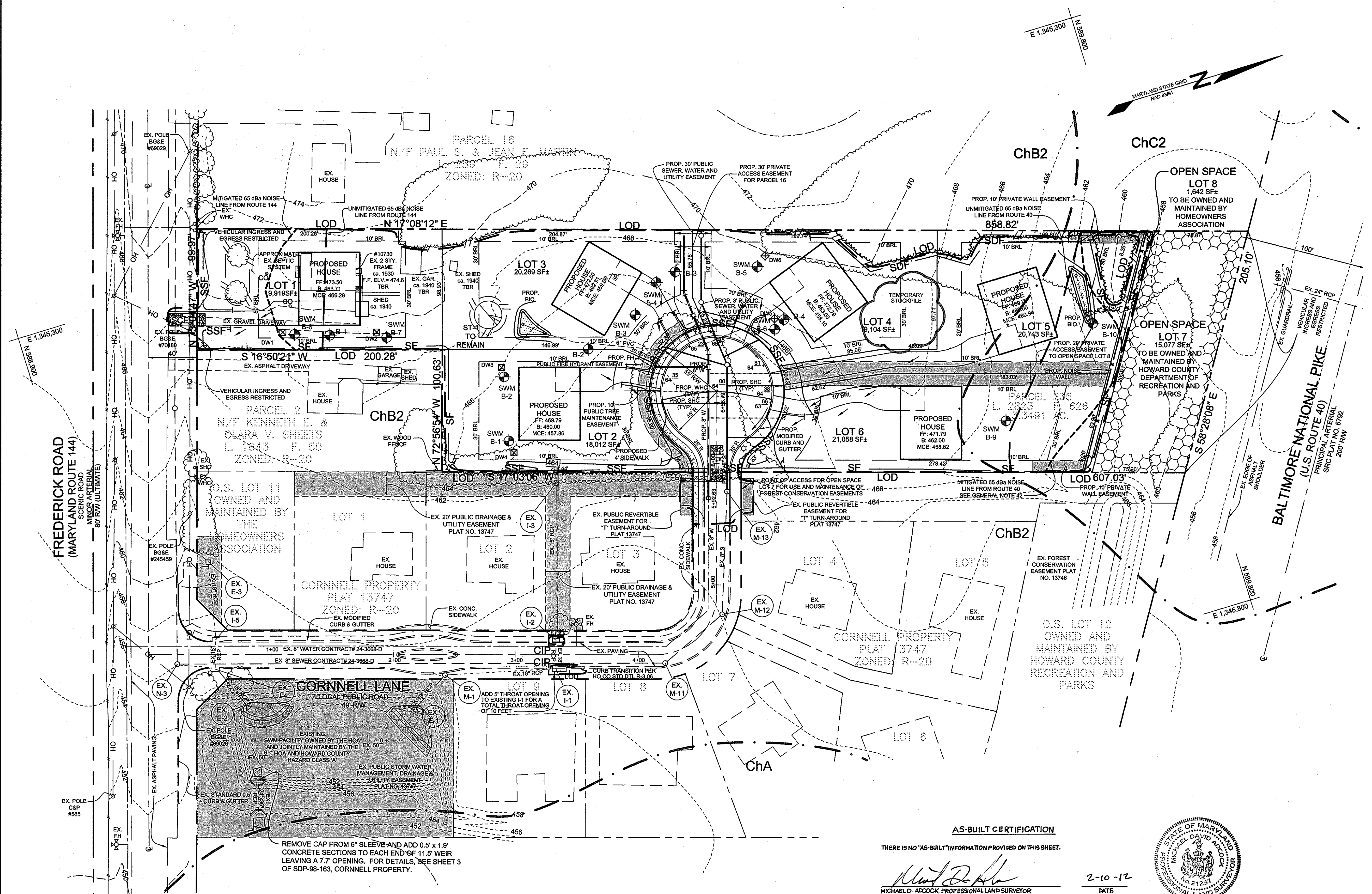






SOILS LEGEND		
SYMBOL	NAME / DESCRIPTION	GROUP
ChA	CHESTER SILT LOAM, 0 TO 3 PERCENT SLOPES	B
ChB2	CHESTER SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	B
ChC2	CHESTER SILT LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED	B

LEGEND	
EXISTING CONTOUR	
PROPOSED CONTOUR	
EXISTING SPOT ELEVATION	
PROPOSED SPOT ELEVATION	
DIRECTION OF FLOW	
EXISTING TREELINE	
EXISTING TREES	
EXISTING SPECIMEN TREE	
TREE PROTECTION FENCE	
FOREST CONSERVATION AREA	
PROPOSED TREELINE	
LIGHT POLES	
STABILIZED CONSTRUCTION ENTRANCE	
SILT FENCE	
SUPER SILT FENCE	
SUPER DIVERSION FENCE	
LIMIT OF DISTURBANCE	
SOIL BOUNDARY	
PROPOSED DRY WELL	
CURB INLET PROTECTION WRAPPED IN SUPER SILT FENCE TO BE REMOVED	



REMOVE CAP FROM 6" SLEEVE AND ADD 0.5' x 1.9' CONCRETE SECTIONS TO EACH END OF 11.5' WEIR LEAVING A 7.7' OPENING. FOR DETAILS, SEE SHEET 3 OF SDP-98-163, CORNELL PROPERTY.

AS-BUILT CERTIFICATION  
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

*Michael D. Adcock*  
MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR  
MD REG. NO. 21257, EXPIRATION DATE: '06-16-13

*William J. Sill*  
2-10-12  
DATE



**OWNER**  
APRIL R. ROBBINS  
5 JOYCE ROAD  
FRAMINGHAM, MA 01701-3365

**DEVELOPER**  
WILLIAMSBURG GROUP, LLC  
C/O ROBERT CORBETT  
5485 HARPERS FARM ROAD, SUITE 200  
COLUMBIA, MD 21044  
410.997.8800

**GRADING, SEDIMENT AND EROSION CONTROL PLAN**  
**STONEFIELD II**  
LOTS 1-6 AND OPEN SPACE LOTS 7 & 8

TAX MAP 16 GRID 23  
2ND ELECTION DISTRICT

PARCEL 235  
HOWARD COUNTY, MARYLAND

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

DESIGN BY: PS  
DRAWN BY: PS, JJ, SJT  
CHECKED BY: PS  
SCALE: 1"=40'  
DATE: MARCH 3, 2010  
PROJECT #: 07-093  
SHEET #: 3 of 12

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 20, 2011.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*Jeffrey S. Shuler*  
CHIEF, DIVISION OF LAND DEVELOPMENT  
4/2/10  
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
*William J. Sill*  
CHIEF, BUREAU OF HIGHWAYS  
4-7-10  
DATE

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS  
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND  
SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
*John R. Roberts*  
HOWARD SCD  
3/30/10  
DATE

**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 SOIL CONSERVATION DISTRICT."  
*Paul M. Sill*  
SIGNATURE OF ENGINEER  
PAUL M. SILL, PE, LEED AP  
3.15.10  
DATE

**DEVELOPER'S CERTIFICATE**  
"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."  
*William J. Sill*  
SIGNATURE OF DEVELOPER  
3-11-10  
DATE

**AS-BUILT**



## 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/FERTILIZER 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 MATERIALS 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 DEPENDS UPON THE TYPE OF DISTURBANCE. 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 LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR 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, STONE, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIAL LARGER THAN 1/4 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 100 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.  
III. 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 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS.  
II. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:  
I. ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING 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 1 - 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 DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.  
II. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBERT 4" HIGHER IN ELEVATION.  
III. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE DONE 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 IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDING PREPARATION.

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## 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 (410-315-1880).  
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 THERETO.  
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. 7, 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, SOIL 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 PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.  
7. SITE ANALYSIS:  
TOTAL AREA: 3.349 ACRES  
AREA DISTURBED: 2.34 ACRES  
AREA TO BE ROOFED OR PAVED: 0.82 ACRES  
AREA TO BE VEGETATIVELY STABILIZED: 2.12 ACRES  
TOTAL CUT: 4,470 CY  
TOTAL FILL: 4,700 CY  
OFFSITE WASTE/BORROW AREA LOCATION: "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 CONSTRUCTION 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.  
\* EARTHWORK QUANTITIES ARE SOLELY FOR THE PURPOSE OF CALCULATING FEES. CONTRACTOR TO VERIFY ALL QUANTITIES PRIOR TO THE START OF CONSTRUCTION.  
\*\* TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*Vest Skolow*  
CHIEF, DIVISION OF LAND DEVELOPMENT  
DATE: 4/19/10  
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
*Michelle Z....*  
CHIEF, BUREAU OF HIGHWAYS  
DATE: 4-7-10  
REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS  
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
*John R. Robertson*  
WARD SCD  
DATE: 3/30/10

## PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.  
**SEEDING PREPARATION:** LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. DO NOT PREVIOUSLY LOOSEND.  
**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. AT THE TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREA/FORM FERTILIZER (9 LBS/1000 SQ. FT.)  
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 29, 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 SOIL OPTION (2) 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 (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (9 GAL/1000 SQ. FT.) FOR ANCHORING.  
**MAINTENANCE:** INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

## TEMPORARY SEEDING NOTES

**SEEDING PREPARATION:** LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. DO NOT PREVIOUSLY LOOSEND.  
**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 (3.2 LBS/1000 SQ. FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 1 LBS PER ACRE OF WEEPING LOVEGRASS (0.07 LBS/1000 SQ. FT.). FOR THE PERIOD NOVEMBER 1 THRU FEBRUARY 29, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOIL.  
**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 (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (9 GAL/1000 SQ. FT.) FOR ANCHORING.  
REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

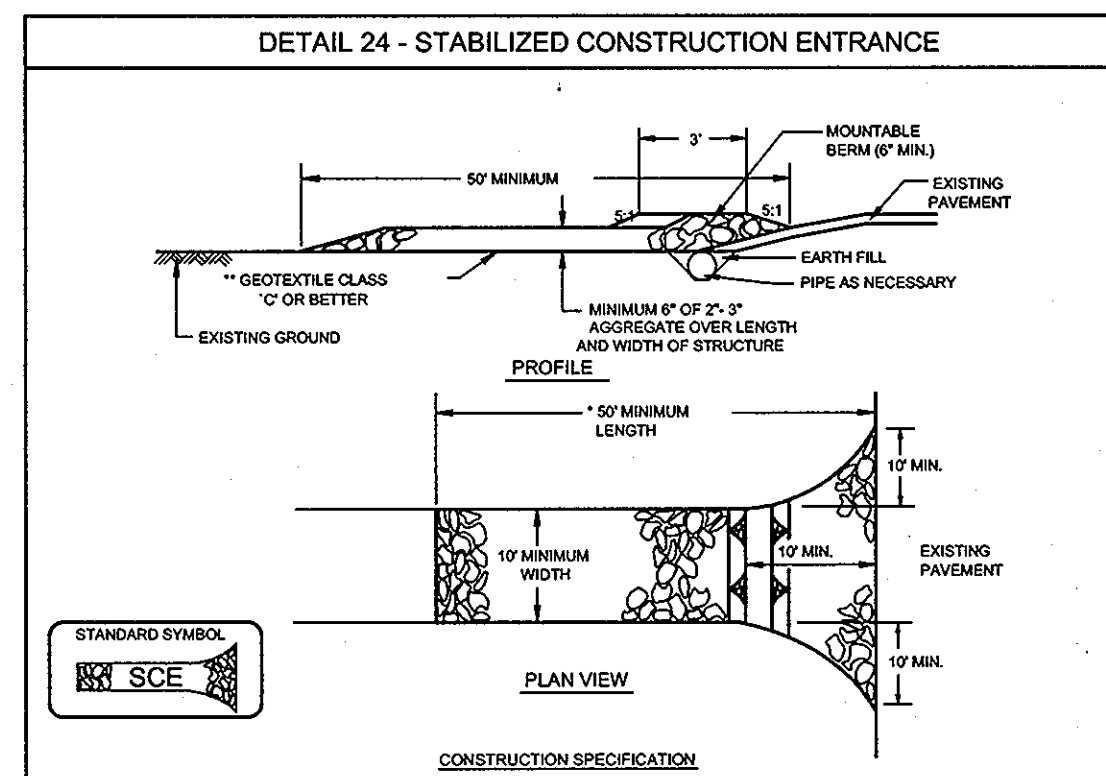
## OPERATION AND MAINTENANCE SCHEDULE FOR BIORETENTION AREAS (F-6)

- 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 CONSIDERED 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 LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 OR 3 YEARS.
- SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.

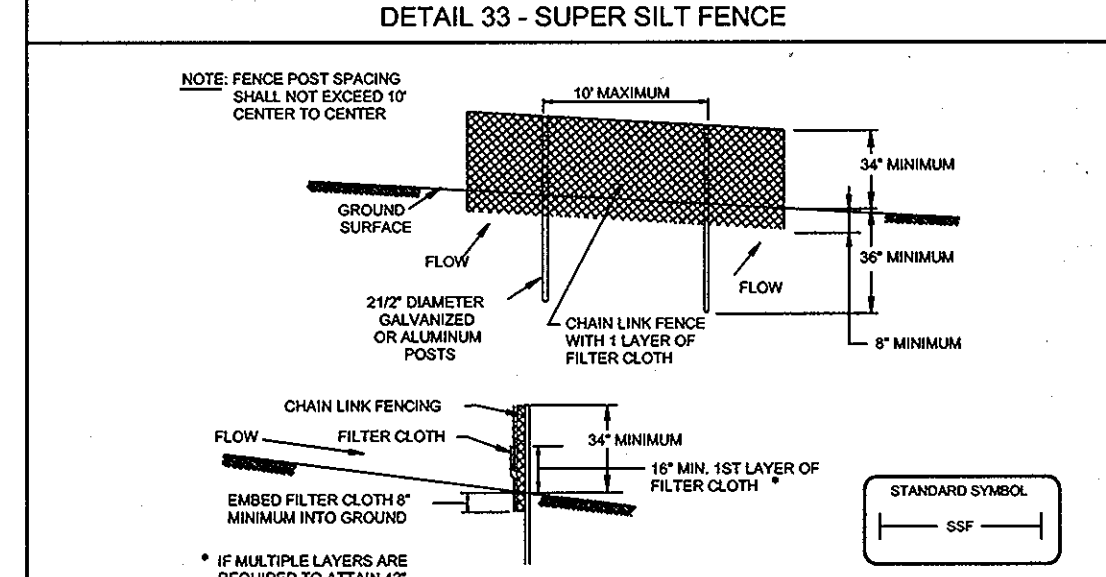
## SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT.
- NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSE AND PERMITS AT (410) 313-1880 AT LEAST 24 HOURS BEFORE STARTING ANY WORK.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, SUPER SILT FENCE, TREE PROTECTIVE FENCING, AND SUPER DIVERSION FENCE AS SHOWN OF THE PLAN, SEDIMENT AND EROSION CONTROL PLAN. (1 WEEK)
- CONSTRUCT NOISE WALL. (1 WEEK)
- REMOVE EXISTING CURB & GUTTER NORTH OF INLET 1-1, CONSTRUCT EXTENSION OF INLET 1-1, AND CURB AND GUTTER TRANSITION. (1 DAY)
- INSTALL INLET PROTECTION WRAPPED IN SUPER SILT FENCE ON EXISTING INLETS 1-1 AND 1-2. (1 DAY)
- ADD ADDITIONAL CONCRETE TO WEIR WALL OF EXISTING POND ON CORNELL PROPERTY AND REMOVE CAP FROM 6" PVC GOING THRU THE WEIR WALL PER REDLINE REVISION TO CORNELL PROPERTY. F-98-163, SHEET 3. (2 DAYS)
- REMOVE EXISTING 7" TURNAROUND AT THE END OF CORNELL LANE PER PLAN. (1 WEEK)
- ROUGH GRADE SITE AND BEGIN ROAD CONSTRUCTION. (1 MONTH)
- INSTALL WATER & SEWER MAINS AND ASSOCIATED HOUSE CONNECTIONS. (3 WEEKS)
- INSTALL MODIFIED CURB & GUTTER, SIDEWALK, PAVEMENT, ROADWAY, AND FINE GRADE SITE. (2 WEEKS)
- STABILIZE ALL DISTURBED AREAS. (2 WEEKS)
- UPON STABILIZATION OF ALL DISTURBED AREAS AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL MEASURES AND STABILIZE ANY REMAINING DISTURBED AREA. (1 WEEK)

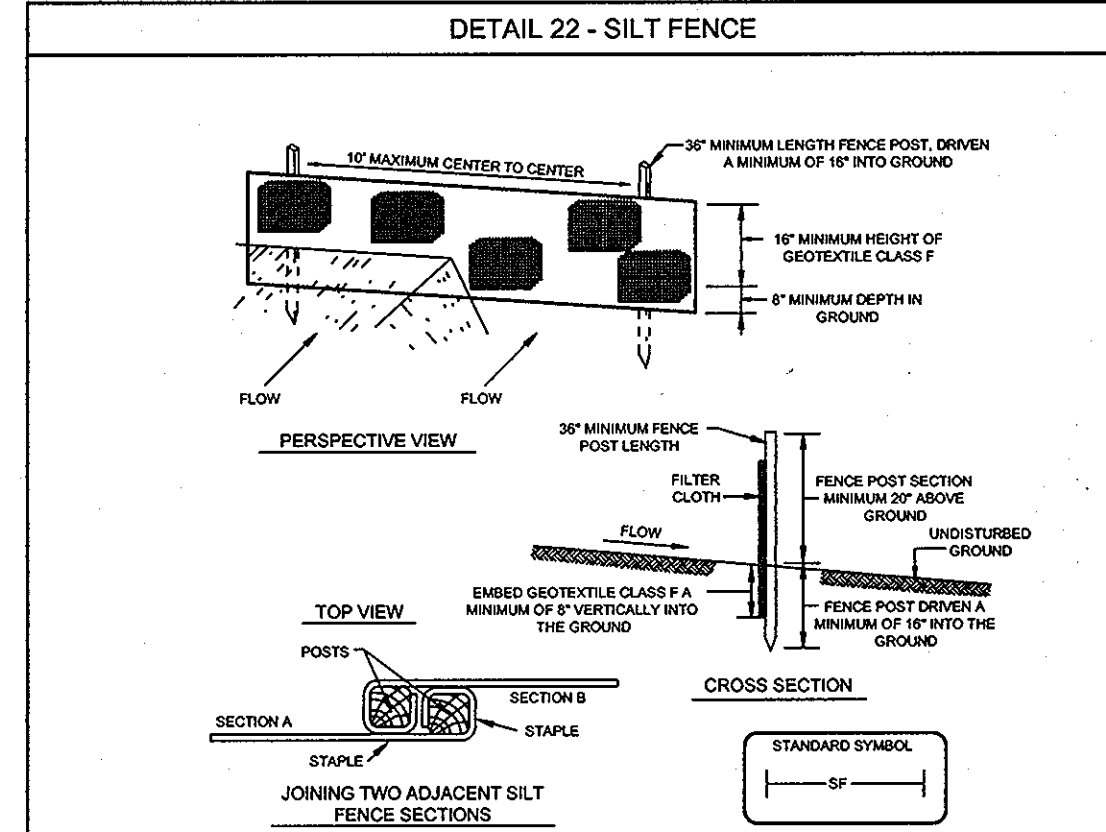
NOTE: FOLLOWING INITIAL SOIL DISTURBANCE OR ANY REDISTURBANCES, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:  
A. 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES AND ALL SLOPES GREATER THAN 3:1.  
B. 14 CALENDAR DAYS FOR ALL OTHER DISTURBED AREAS.  
DURING GRADING AND AFTER EACH RAINFALL, CONTRACTOR WILL INSPECT AND PROVIDE NECESSARY MAINTENANCE TO THE SEDIMENT CONTROL MEASURES ON THIS PLAN.



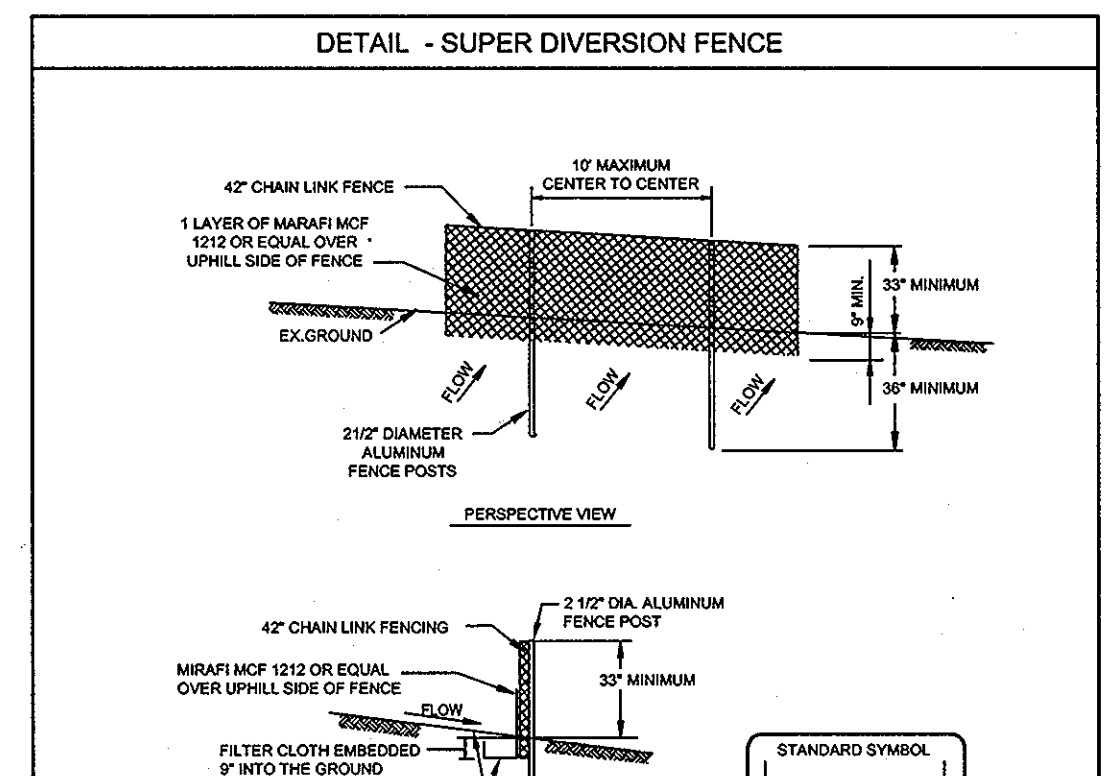
**CONSTRUCTION SPECIFICATION:**  
1. LENGTH - MINIMUM OF 50' 3\"/>



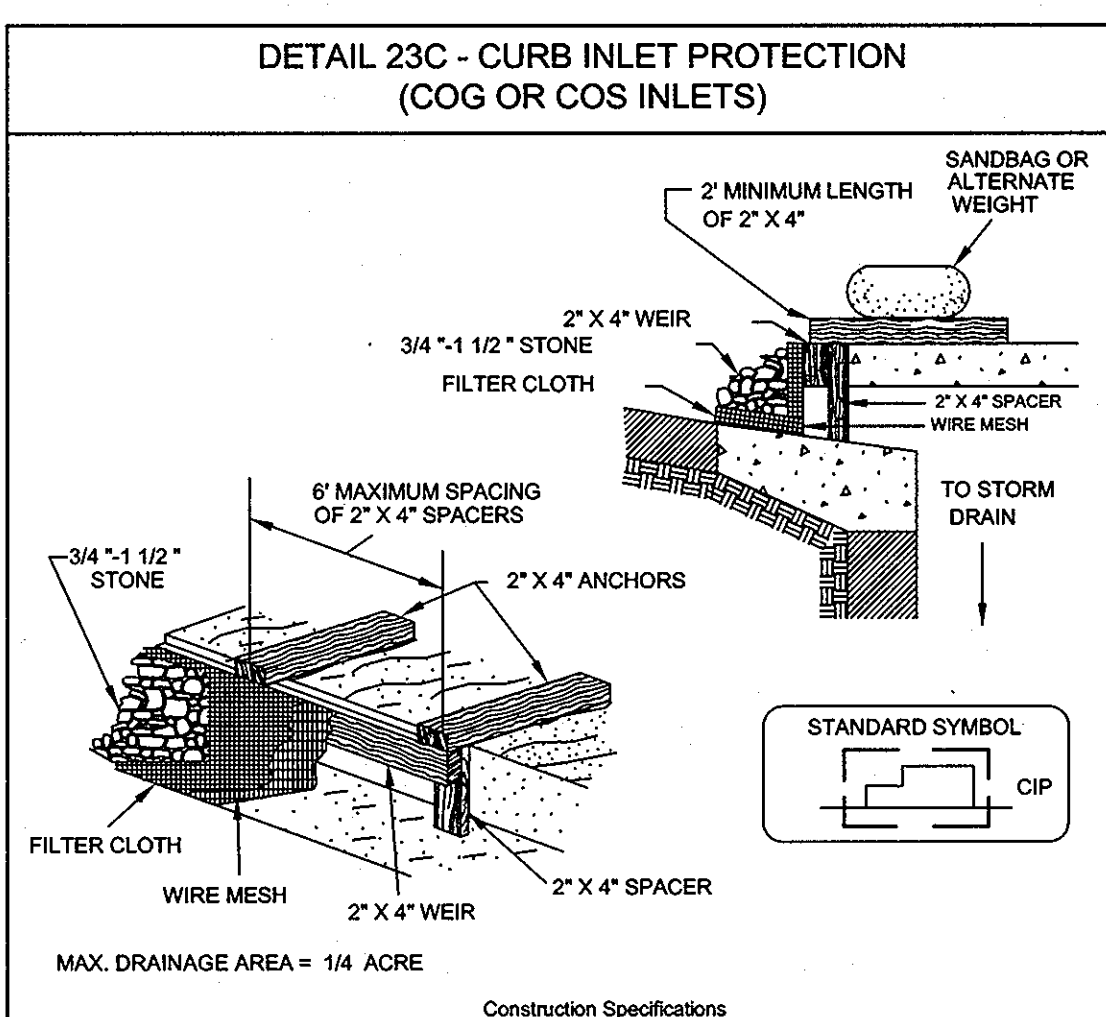
**CONSTRUCTION SPECIFICATIONS:**  
1. FENCING SHALL BE 42\"/>



**Construction Specifications:**  
1. Fence posts shall be a minimum of 36\"/>



**FENCING:**  
FENCING SHALL BE 42\"/>



**Construction Specifications:**  
1. Attach a continuous piece of wire mesh (30\"/>



**AS-BUILT CERTIFICATION**  
THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.  
*Michael D. Adcock*  
MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR  
MD REG. NO. 21287, EXPIRATION DATE: 06-16-13  
DATE: 2-10-12

**OWNER:** APRIL R. ROBBINS, 5 JOYCE ROAD, FRAMINGHAM, MA 01710-3365  
**DEVELOPER:** WILLIAMSBURG GROUP, LLC, C/O ROBERT CORBETT, 5485 HARPERS FARM ROAD, SUITE 200, COLUMBIA, MD 21044, 410.997.8800

**SEDIMENT AND EROSION CONTROL NOTES AND DETAILS**  
**STONEFIELD II**  
LOTS 1-6 AND OPEN SPACE LOTS 7 & 8  
TAX MAP 16 GRID 23, 2ND ELECTION DISTRICT  
PARCEL 235, HOWARD COUNTY, MARYLAND

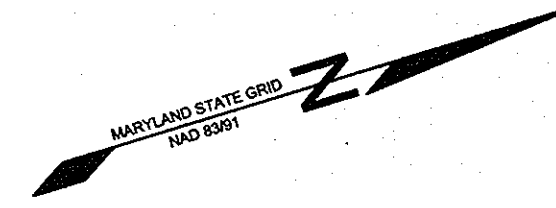
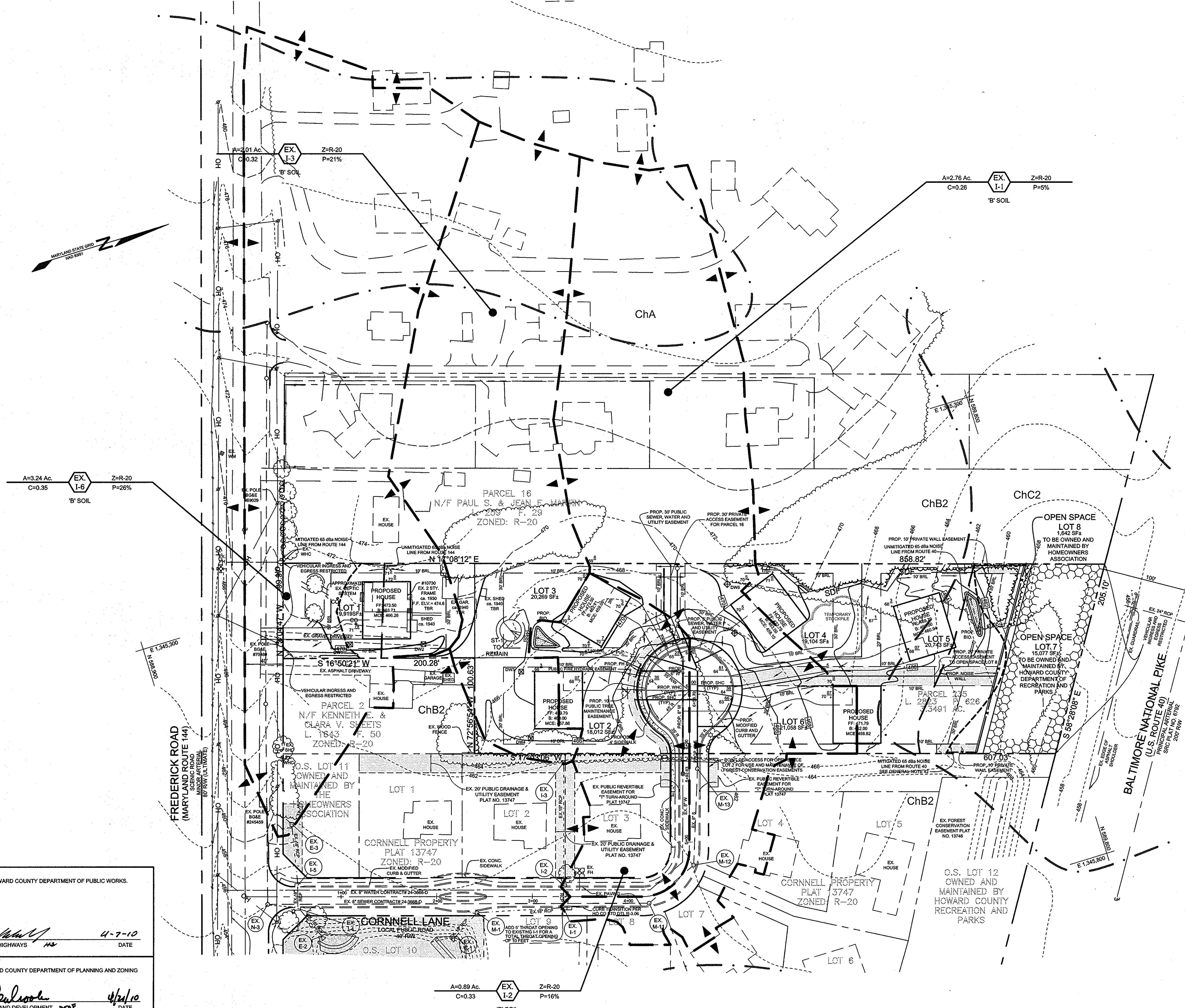
**Sill · Adcock & Associates · LLC**  
Engineers · Surveyors · Planners  
3900 North Ridge Road, Suite 160  
Elicott City, Maryland 21043  
Phone: 443.325.7682 Fax: 443.325.7685  
Email: info@saaand.com  
DESIGN BY: PS  
DRAWN BY: PS, JJ, SJT  
CHECKED BY: PS  
SCALE: AS SHOWN  
DATE: MARCH 3, 2010  
PROJECT #: 07-093  
SHEET #: 4 OF 12  
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: 03-31-2011

**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 SOIL CONSERVATION DISTRICT.  
*Michael D. Adcock*  
SIGNATURE OF DEVELOPER  
DATE: 3-11-10

**AS-BUILT**



SOILS LEGEND		
SYMBOL	NAME / DESCRIPTION	GROUP
ChA	CHESTER SILT LOAM, 0 TO 3 PERCENT SLOPES	B
ChB2	CHESTER SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	B
ChC2	CHESTER SILT LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED	B



**AS-BUILT CERTIFICATION**  
 THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.  
 Michael D. Adcock  
 MICHAEL D. ADCKOCK, PROFESSIONAL LAND SURVEYOR  
 MD REG. NO. 21257, EXPIRATION DATE: 06-16-13  
 2-10-12 DATE

**OWNER**  
 APRIL R. ROBBINS  
 5 JOYCE ROAD  
 FRAMINGHAM, MA 01701-3365

**DEVELOPER**  
 WILLIAMSBURG GROUP, LLC  
 C/O ROBERT CORBETT  
 5485 HARPERS FARM ROAD, SUITE 200  
 COLUMBIA, MD 21044  
 410.997.8800

**STORM DRAIN DRAINAGE AREA MAP**  
**STONEFIELD II**  
 LOTS 1-6 AND OPEN SPACE LOTS 7 & 8  
 TAX MAP 16 GRID 23  
 2ND ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**Sill · Adcock & Associates · LLC**  
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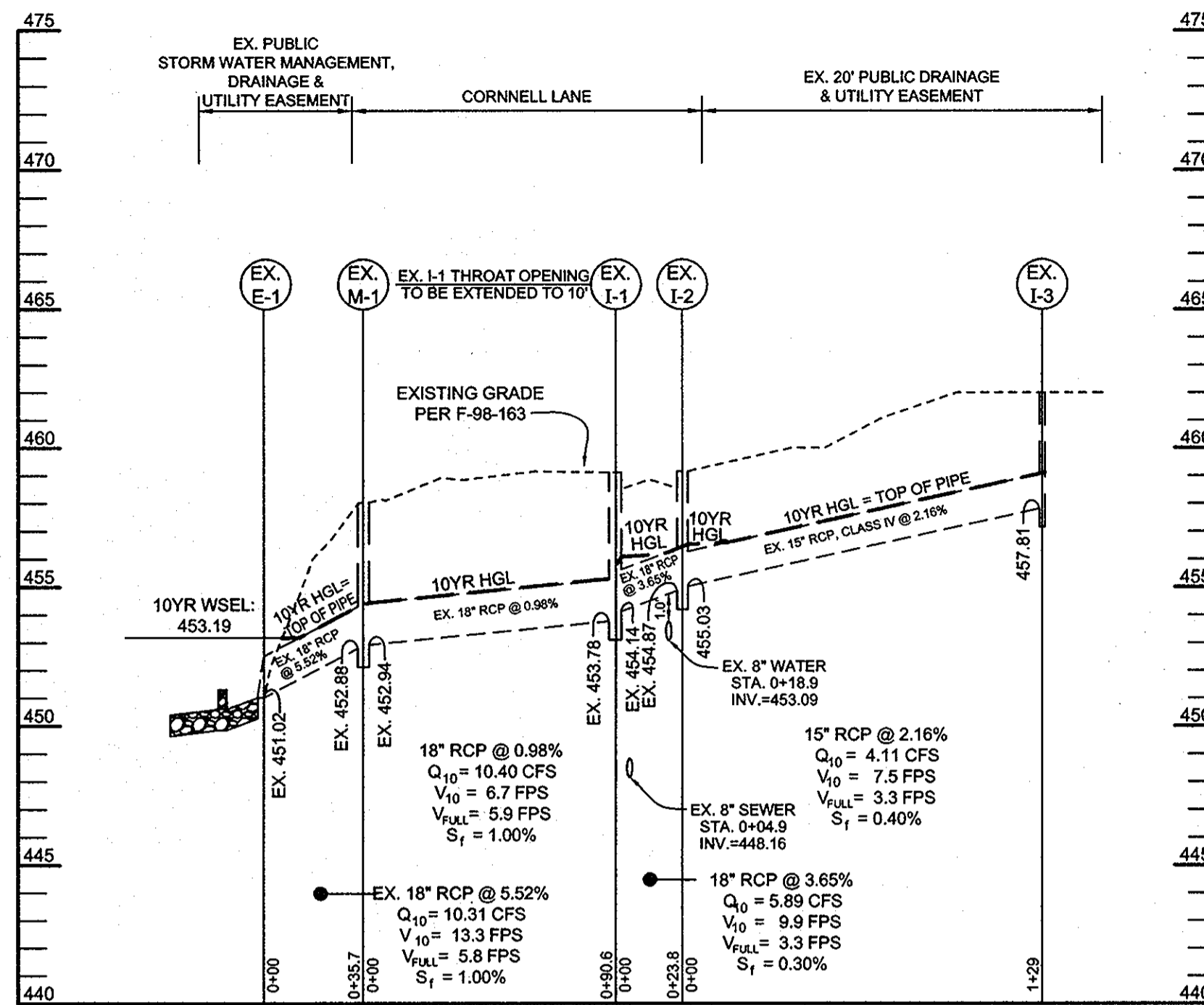
DESIGN BY: PS  
 DRAWN BY: PS, JJ, SJT  
 CHECKED BY: PS  
 SCALE: 1"=50'  
 DATE: MARCH 3, 2010  
 PROJECT #: 07-093  
 SHEET #: 5 of 12

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
 [Signature] 4-7-10 DATE  
 CHIEF, BUREAU OF HIGHWAYS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 [Signature] 4/2/10 DATE  
 CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 4/9/10 DATE  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

**AS-BUILT**



STORM DRAIN PROFILE - EX E-1 TO EX. I-3  
 HORIZONTAL SCALE : 1" = 50'  
 VERTICAL SCALE : 1" = 5'

STRUCTURE SCHEDULE						
NO.	TYPE & OWNERSHIP	LOCATION	TOP ELEV.	INV. IN	INV. OUT	REMARKS
EX 1-1	EX. TYPE 'A-5' INLET WITH 5' THROAT EXTENSION TO TOTAL 10' OPENING PUBLIC	N 589,241.43 E 1,345,686.77	EX. 459.12	EX. 454.14	EX. 453.78	THROAT EXTENSION PER SHA STD DTL MD-374.31

- NOTES:
- LOCATION AND TOP ELEVATION FOR EX. I-1 BASED ON EXISTING A-5 INLET AT CENTER FACE OF INLET, TOP OF CURB.
  - TOP SLOPE OF STRUCTURE TO CONFORM TO SLOPE OF PAVING.

**OWNER**  
 APRIL R. ROBBINS  
 5 JOYCE ROAD  
 FRAMINGHAM, MA 01701-3365

**DEVELOPER**  
 WILLIAMSBURG GROUP, LLC  
 C/O ROBERT CORBETT  
 5485 HARPERS FARM ROAD, SUITE 200  
 COLUMBIA, MD 21044  
 410.997.8800

**STORM DRAIN PROFILE AND CHARTS**  
**STONEFIELD II**  
 LOTS 1-6 AND OPEN SPACE LOTS 7 & 8

TAX MAP 16 GRID 23      PARCEL 235  
 2ND ELECTION DISTRICT      HOWARD COUNTY, MARYLAND

	<b>Sill · Adcock &amp; Associates · LLC</b>	DESIGN BY: PS
	Engineers · Surveyors · Planners	DRAWN BY: PS, JJ, SJT
	3300 North Ridge Road, Suite 160 Ellicott City, Maryland 21043	CHECKED BY: PS
	Phone: 443.325.7682 Fax: 443.325.7685 Email: info@saaland.com	SCALE: AS SHOWN
		DATE: MARCH 3, 2010
		PROJECT #: 07-093
		SHEET #: 6 of 12

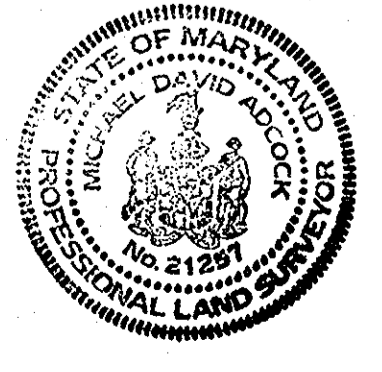
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2011

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*Kate Sheleff* 4/1/10  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
*Michael D. Adcock* 4-2-10  
 CHIEF, BUREAU OF HIGHWAYS DATE

**AS-BUILT CERTIFICATION**  
 THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

*Michael D. Adcock* 2-10-12  
 MICHAEL D. ADCOCK PROFESSIONAL LAND SURVEYOR  
 MD REG. NO. 21297, EXPIRATION DATE: 06-16-13 DATE

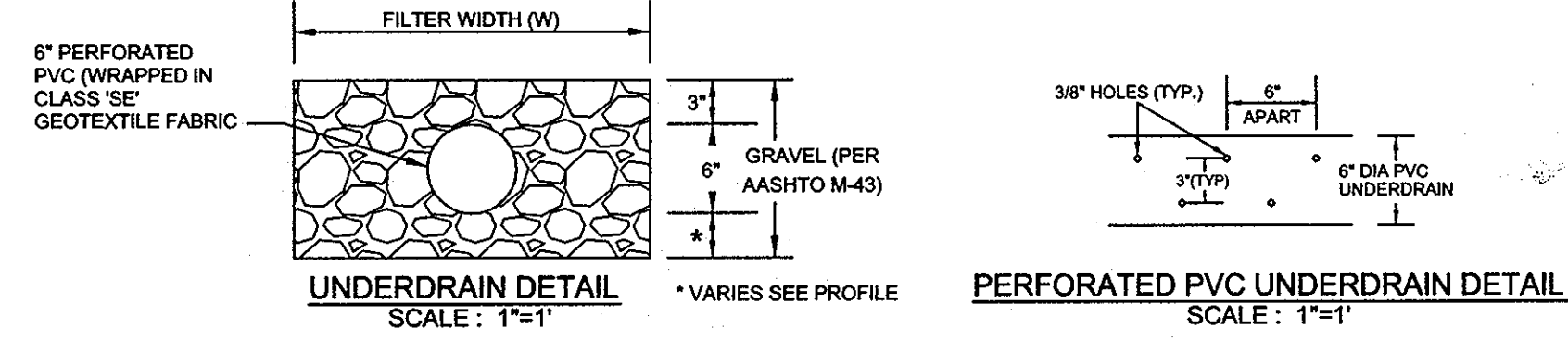
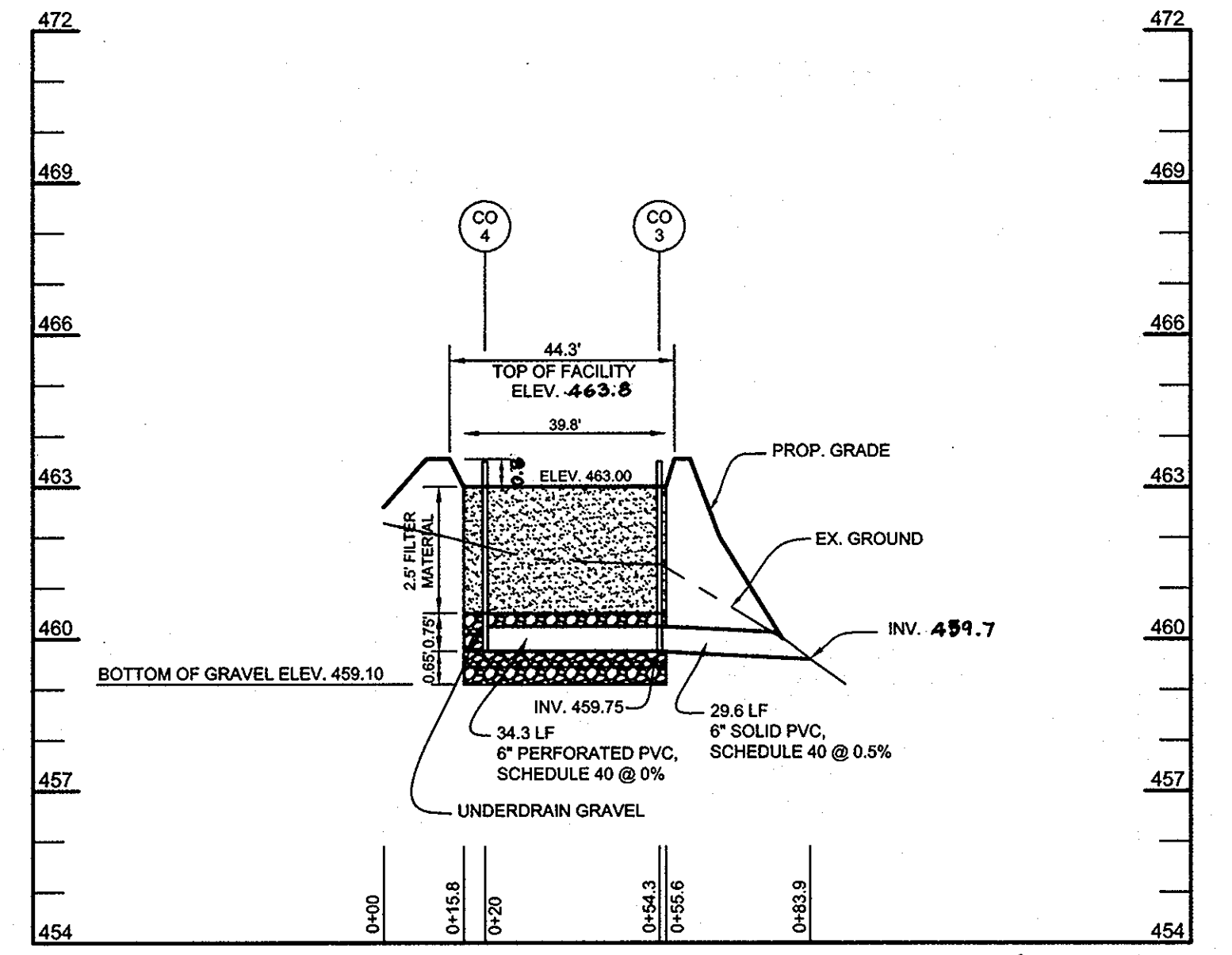
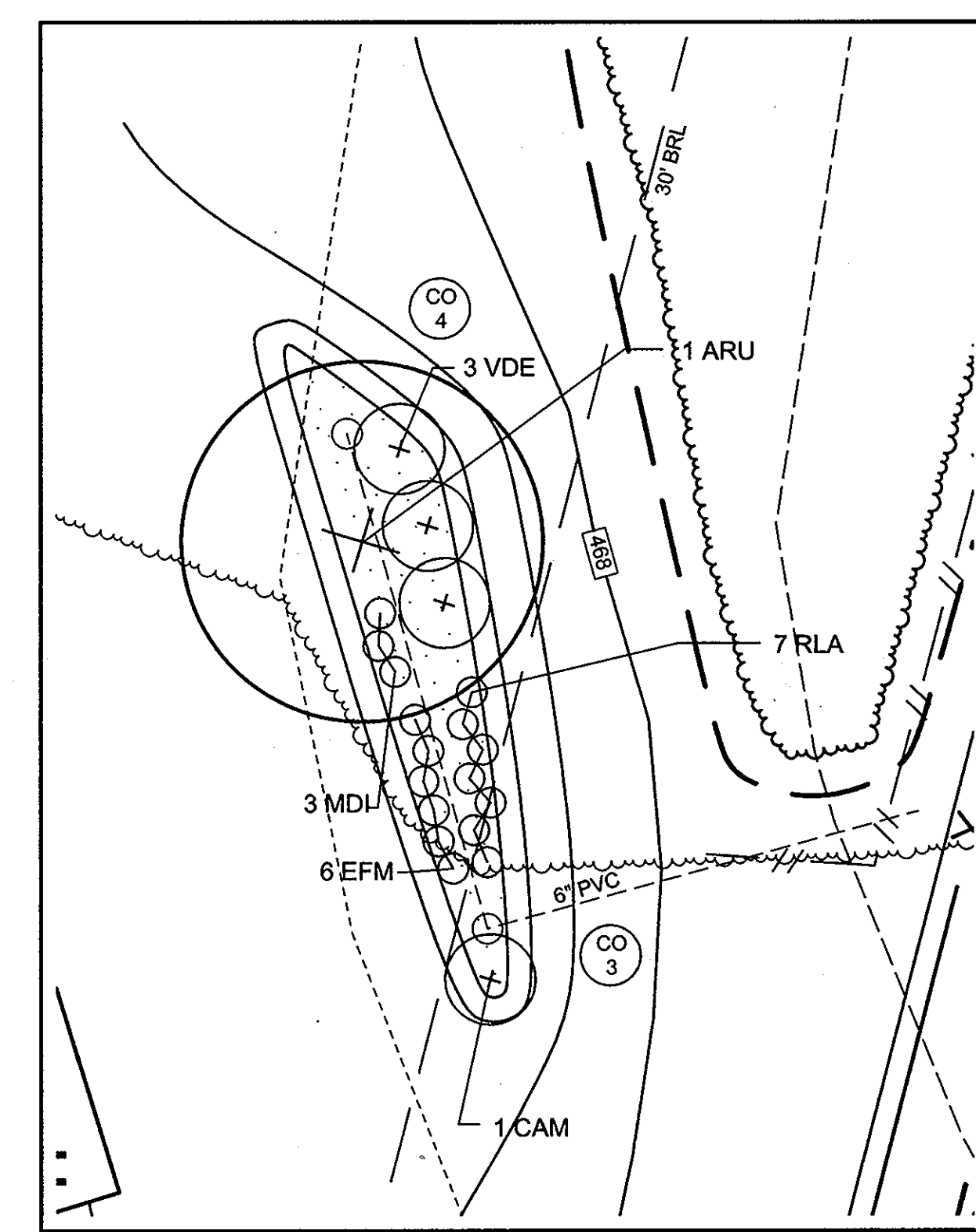
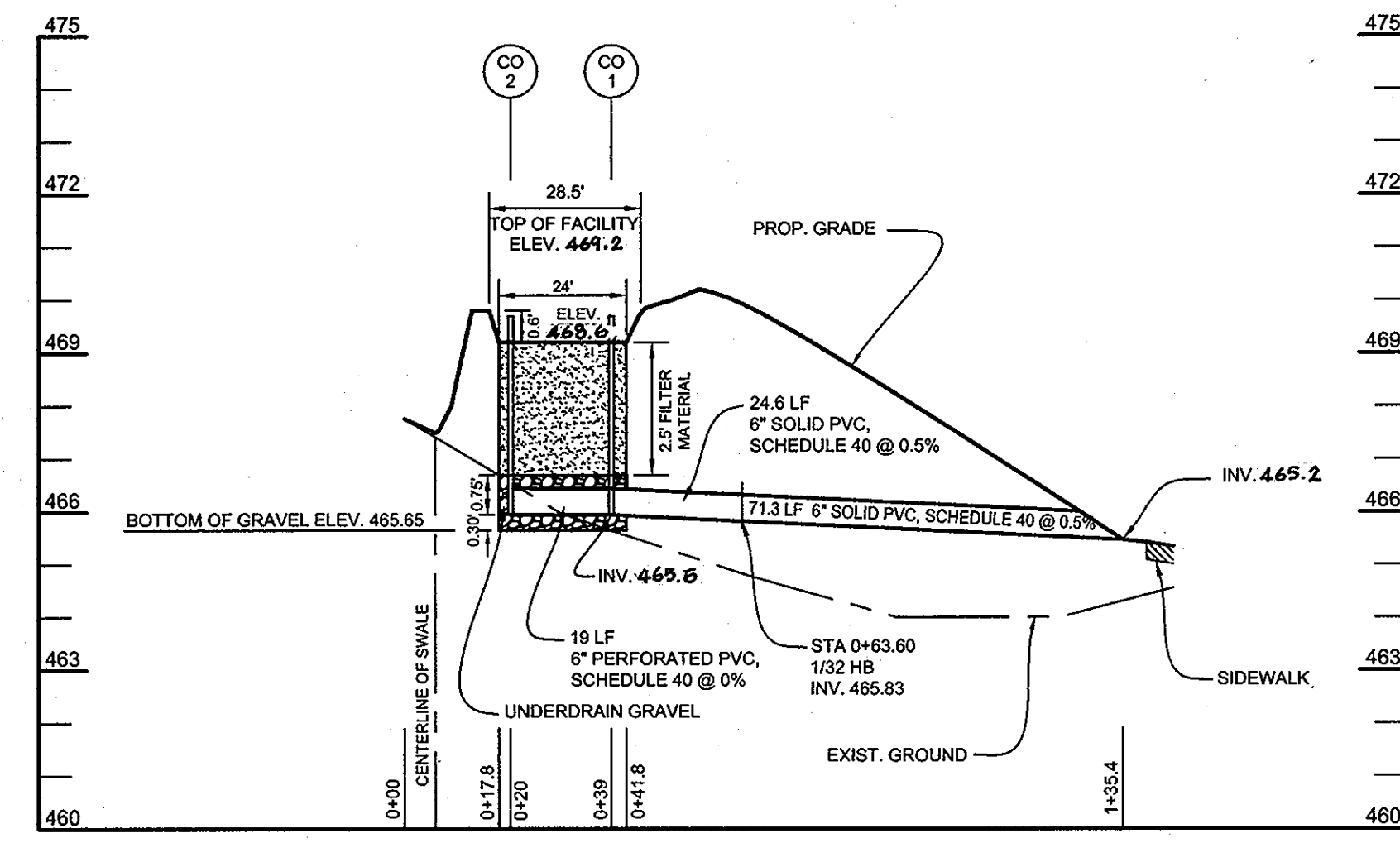
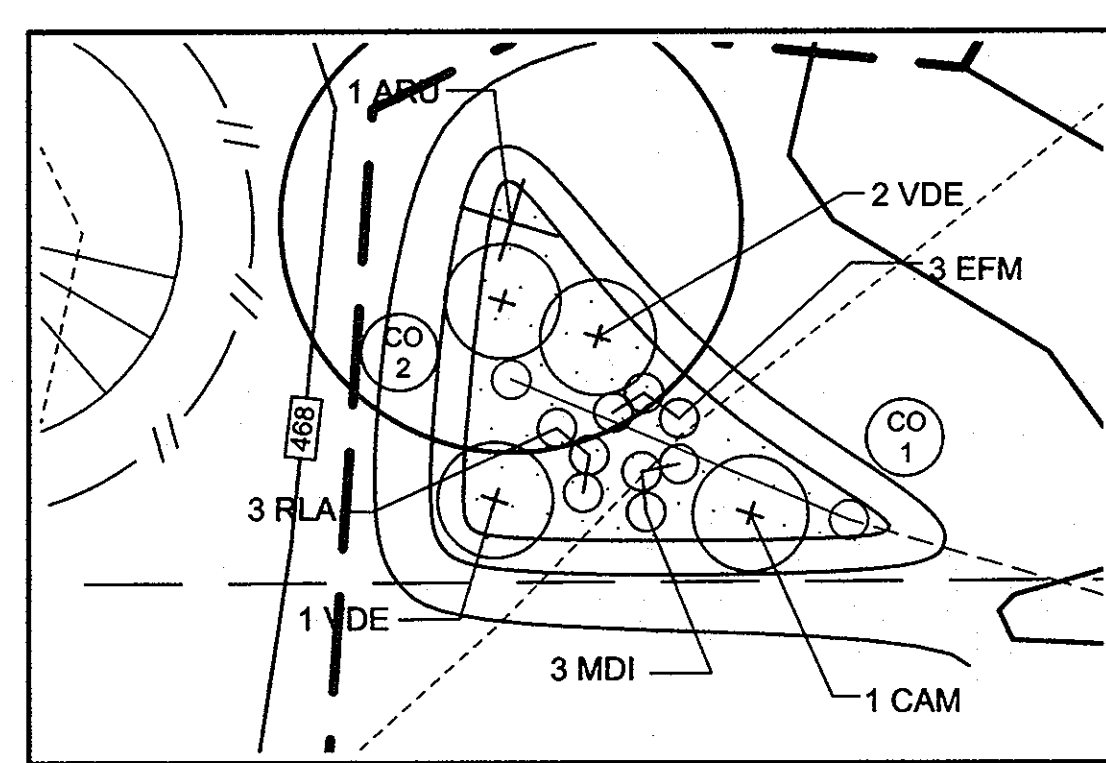
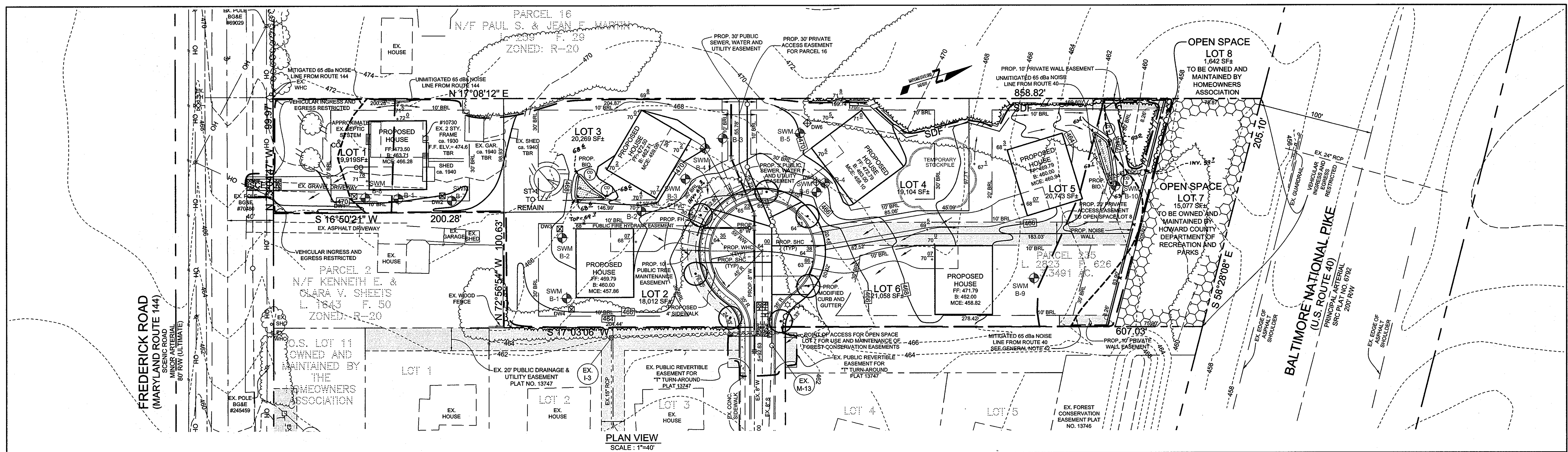


**AS-BUILT**









**MATERIALS SPECIFICATIONS FOR BIORETENTION FACILITIES**

MATERIAL	SPECIFICATION	SIZE	NOTES
PLANTINGS	SEE PLANT LIST THIS SHEET	N/A	PLANTINGS ARE SITE-SPECIFIC. SEE PLANT LIST THIS SHEET
PLANTING SOIL (2.5 TO 4" DEEP)	SAND 35% - 60% SILT 0% - 25% GROUND COMPOST 40%-50%	N/A	
MULCH	SHREDDED HARDWOOD		AGED 6 MONTHS, MINIMUM
PEA GRAVEL DIAPHRAGM AND CURTAIN DRAIN, IF REQUIRED	PEA GRAVEL: ASTM-D-448 ORNAMENTAL STONE: WASHED COBBLES	PEA GRAVEL: NO. 6 STONE: 2" TO 5"	
GEOTEXTILE	CLASS "SE" - APPARENT OPENING SIZE (ASTM-D-4751), GRAB TENSILE STRENGTH (ASTM-D-4632), PUNCTURE RESISTANCE (ASTM-D-4633)	N/A	FOR USE AS NECESSARY BENEATH UNDERDRAINS ONLY
UNDERDRAIN GRAVEL	AASHTO M-43	0.375" TO 0.75"	
UNDERDRAIN PIPING	F 758, TYPE PS 28 OR AASHTO M-276	4" TO 6" RIGID SCHEDULE 40 PVC OR SDR35	3/8" PERF. @ 6" ON CENTER, 4 HOLES PER ROW; MINIMUM OF 3" OF GRAVEL OVER PIPES; NOT NECESSARY UNDERNEATH PIPES

**BIORETENTION #3 PLANT LIST**

KEY	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	REMARKS	QUANTITY LOT 3 - BIO	QUANTITY LOT 5 - BIO
ARU	ACER RUBRUM	RED MAPLE	AS SHOWN	1'-1 1/2" CAL.	BB	1	1
<b>SHRUBS</b>							
CAM	CORNUS AMOMUM	SILKY DOGWOOD	AS SHOWN	18"-24" HT.	CONT.	1	1
VDE	VIBURNUM DENTATUM	ARROWWOOD	AS SHOWN	18"-24" HT.	CONT.	3	3
<b>HERBACEOUS SPECIES</b>							
EFM	EUPATORIUM FISTULOSUM	JOE-PYE WEED	AS SHOWN	1 QT./12" HT.	CONT. (3" O.C.)	3	5
MDI	MONARDA DIDYMA	BEEBALM	AS SHOWN	1 QT.	CONT.	3	3
RLA	RUDEBECKIA LACINIATA	TALL CONEFLOWER	AS SHOWN	1 QT.	CONT.	3	7

LOT 3 - BIORETENTION AREA = 206 S.F. OR 0.005 AC. LOT 5 - BIORETENTION AREA = 253 S.F. OR 0.006 AC.  
 REQUIRED: 800 TREES AND SHRUBS PER ACRE = 4 REQUIRED: 800 TREES AND SHRUBS PER ACRE = 5  
 PROVIDED: 1 SHADE TREES, 4 SHRUBS AND 9 HERBACEOUS SPECIES PROVIDED: 1 SHADE TREES, 4 SHRUBS AND 15 HERBACEOUS SPECIES

**DRYWELL SIZING CHART**

NO.	LENGTH (ft)	WIDTH (ft)	DEPTH (ft)	STORAGE REQUIRED	STORAGE PROVIDED
DW1	4	3	3	32 cf	36 cf
DW2	4	3	3	32 cf	36 cf
DW3	3	2	3	16 cf	18 cf
DW4	4	3	3	32 cf	36 cf
DW5	3	3	3	24 cf	27 cf
DW6	2	2	2	8 cf	8 cf

**AS-BUILT CERTIFICATION**

I HEREBY CERTIFY, BY MY SEAL, THAT THE CONDITIONS SHOWN ON THIS PLAN WERE CONSTRUCTED TO THE LINES AND GRADES SHOWN IN RED ON THIS "AS-BUILT" PLAN, AND MEET THE APPROVED PLANS AND SPECIFICATIONS AND ALSO THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND.

Michael D. Adcock, PROFESSIONAL LAND SURVEYOR  
 MD REG. NO. 21257, EXPIRATION DATE: 06-16-13

2-10-12 DATE



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 Chief, Division of Land Development  
 4/11/10 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Chief, Bureau of Highways  
 4-7-10 DATE

**OWNER**  
 APRIL R. ROBBINS  
 5 JOYCE ROAD  
 FRAMINGHAM, MA 01701-3365

**DEVELOPER**  
 WILLIAMSBURG GROUP, LLC  
 C/O ROBERT CORBETT  
 5485 HARPERS FARM ROAD, SUITE 200  
 COLUMBIA, MD 21044  
 410.997.8800

**STORMWATER MANAGEMENT - BIORETENTION PLAN, PROFILES, AND CHARTS STONEFIELD II**

LOTS 1-6 AND OPEN SPACE LOTS 7 & 8

TAX MAP 16 GRID 23 2ND ELECTION DISTRICT PARCEL 235 HOWARD COUNTY, MARYLAND

**Sill · Adcock & Associates · LLC**  
 Engineers · Surveyors · Planners  
 2300 North Ridge Road, Suite 160  
 Ellicott City, Maryland 21043  
 Phone: 443.325.7682 Fax: 443.325.7685  
 Email: info@silladcock.com

DESIGN BY: PS  
 DRAWN BY: PS, JJ, SJT  
 CHECKED BY: PS  
 SCALE: AS SHOWN  
 DATE: MARCH 3, 2010  
 PROJECT NO: 07-093  
 SHEET #: 8 of 12

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 20, 2011.

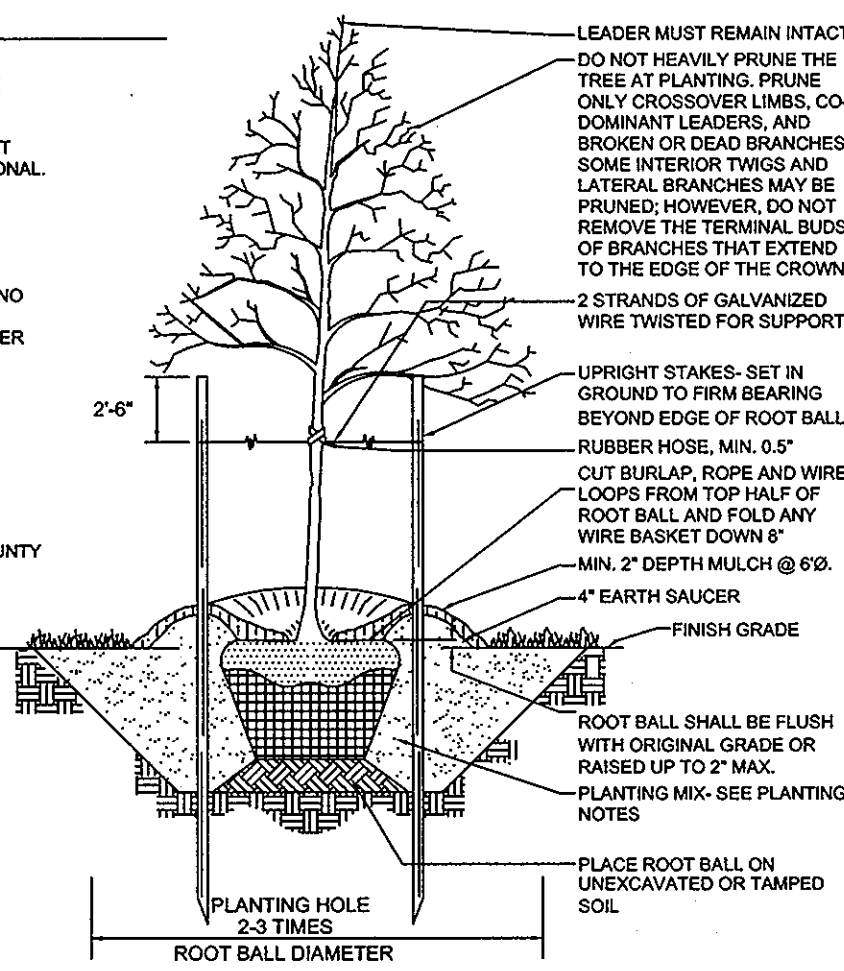


**LANDSCAPE NOTES**

- AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE, SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPING MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATES.
- THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.
- LANDSCAPING IS PROVIDED FOR THIS PROJECT IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED 25 SHADE TREES IN THE AMOUNT OF \$7,500.00 WILL BE PAID AS PART OF THE DPW DEVELOPERS AGREEMENT.

**NOTES**

- CONSULT INTERNATIONAL SOCIETY OF ARBORICULTURE GUIDELINES FOR FURTHER DETAILS OF PLANTING SPECIFICATIONS, OR CONSULT WITH A QUALIFIED PROFESSIONAL.
- EACH TREE SHALL BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL.
- STAKES SHALL BE REMOVED NO LATER THAN THE END OF THE FIRST GROWING SEASON AFTER PLANTING.
- PLACE UPRIGHT STAKES PARALLEL TO WALKS & BUILDINGS.
- KEEP MULCH 1" FROM TRUNK.
- SEE ARCHITECTURAL PLANS FOR ADDITIONAL PLANTINGS WHICH EXCEED HOWARD COUNTY MINIMUM REQUIREMENTS.
- TREES ARE NOT TO BE PLANTED OVER PRIVATE SEWAGE EASEMENT.

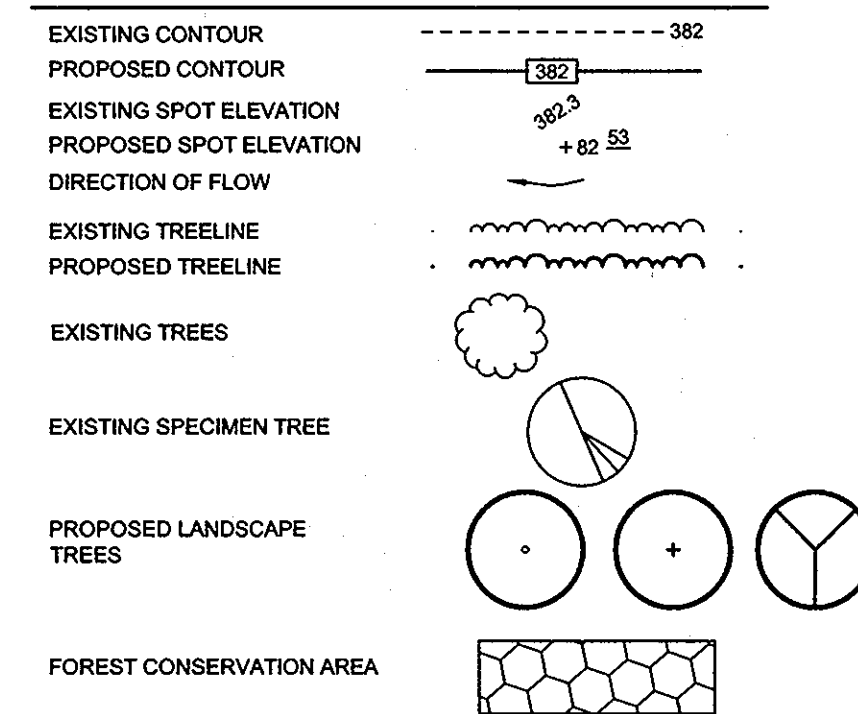


**TYPICAL TREE PLANTING AND STAKING**  
DECIDUOUS TREES UP TO 2-1/2" CALIPER NOT TO SCALE

CATEGORY	SCHEDULE A PERIMETER LANDSCAPE EDGE				
	ADJACENT TO ROADWAYS	3 B	2 A	4 A	5 A
PERIMETER FRONTAGE DESIGNATION	NA (1)	B	A	A	A
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	100	205	859	363	505
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	NO	YES (2) 205LF 0LF	YES (3) 205LF 654LF	NO	NO
REMAINING PERIMETER LENGTH	NO	NO	NO	NO	NO
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET)	NO	NO	NO	NO	NO
REMAINING PERIMETER LENGTH	NO	NO	NO	NO	NO
NUMBER OF PLANTS REQUIRED					
SHADE TREES		130 = 0	160 = 11	160 = 6	160 = 8
EVERGREEN TREES		140 = 0			
SHRUBS					
NUMBER OF PLANTS PROVIDED			11 (3)	6	8
SHADE TREES					
EVERGREEN TREES					
OTHER TREES (2:1 SUBSTITUTION) SHRUBS (10:1 SUBSTITUTION) (DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)					

- HOUSE FRONTS ON ROAD.
- CREDIT TAKEN FOR 205LF OF EXISTING WOODS, REDUCING THE PERIMETER TO 0LF.
- CREDIT TAKEN FOR 205LF OF EXISTING WOODS, REDUCING THE PERIMETER TO 654LF.

**LEGEND**



**SPECIMEN TREE TABLE**

KEY	SIZE	TYPE	CONDITION	LOCATION	REMARKS
ST-1	48"	WALNUT	GOOD	L-1	

**STREET TREE SCHEDULE**

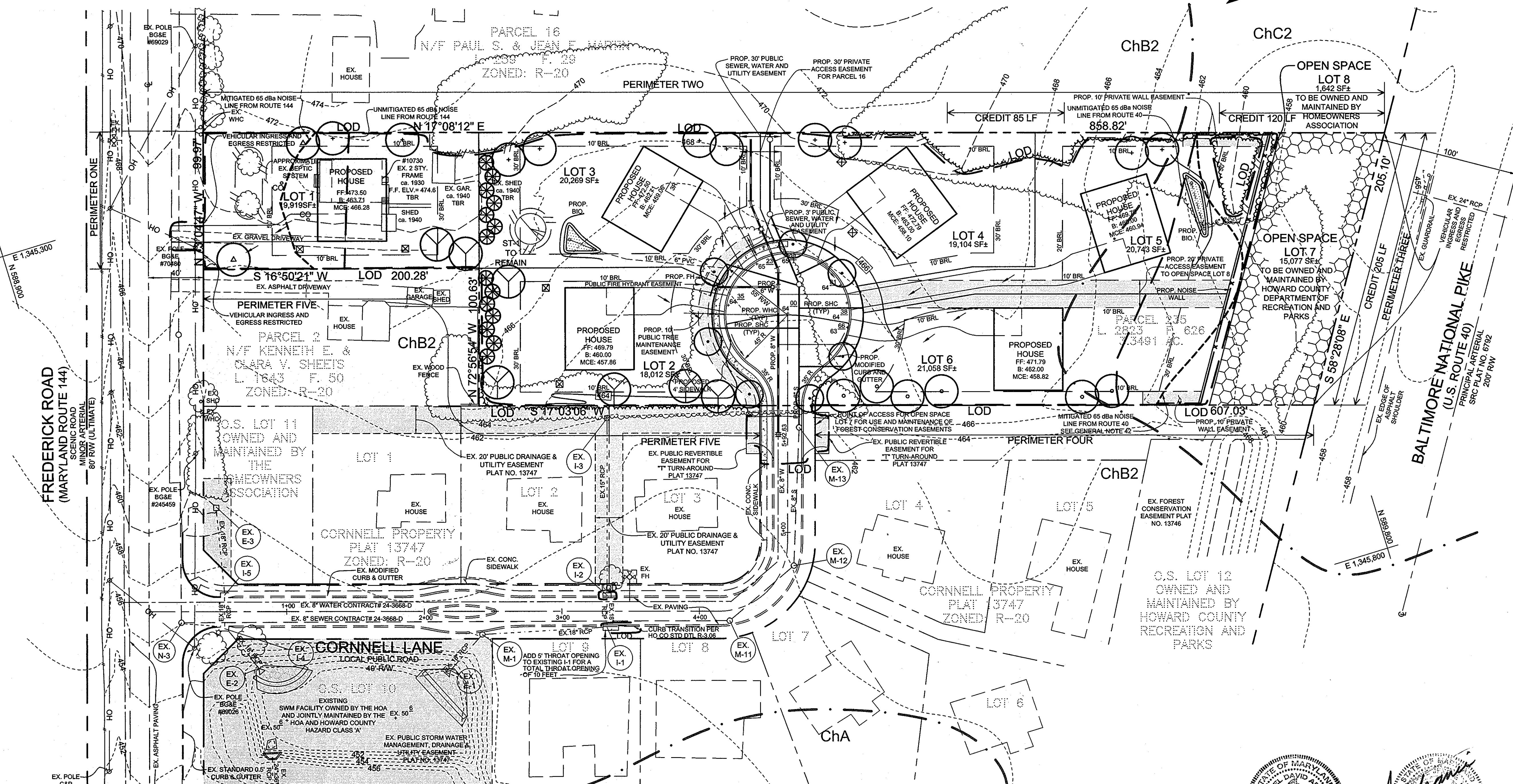
SYMBOL	STREET NAME	LF REQUIRED	TREES REQUIRED	TREES PROVIDED
⊙	CORNELL LANE	299'	7	7

1. SEE PLANT LIST (THIS SHEET) FOR SPECIES AND SIZE

**PLANT LIST**

KEY	QUANTITY	BOTANICAL NAME	SIZE	NOTE
⊙	6	QUERCUS PALUSTRIS 'PIN OAK'	2 1/2"-3" CAL.	B & B
⊙	7	QUERCUS COCCINEA 'SCARLET OAK'	2 1/2"-3" CAL.	B & B
⊙	10	TILIA CORDATA 'GREENSPIRE'	2 1/2"-3" CAL.	B & B
⊙	2	CORNUS KOLSA 'YOUSKA DOGWOOD'	8'-10' HT.	B & B
⊙	14(1)	CUPPRESSOCYPRIS LEYLANDI 'LEYLAND CYPRESS'	8' HT.	B & B
STREET TREE	7	ACER RUBRUM 'OCTOBER GLORY'	2 1/2"-3" CAL.	B & B

1. SUPPLEMENTAL BUFFERING. NO SURETY REQUIRED.



**PLAN VIEW**  
SCALE: 1"=40'

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

**DEVELOPER'S / OWNER'S LANDSCAPE CERTIFICATE**

I / WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16-124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I / WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE (1) YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Chief, Division of Land Development  
Date: 4/1/10

Chief, Bureau of Highways  
Date: 4-7-10

Bob Corbett, Williamsburg Group, Developer  
Date: 3-11-10

**AS-BUILT CERTIFICATION**

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

Michael D. Adcock, Professional Land Surveyor  
MD REG. NO. 21957, EXPIRATION DATE: 06-16-13  
Date: 2-10-12



**AS-BUILT**

**FINAL LANDSCAPE PLAN**  
**STONEFIELD II**

LOTS 1-6 AND OPEN SPACE LOTS 7 & 8

TAX MAP 16 GRID 23  
2ND ELECTION DISTRICT

PARCEL 235  
HOWARD COUNTY, MARYLAND

**Sill · Adcock & Associates · LLC**

Engineers · Surveyors · Planners  
3309 North Ridge Road, Suite 160  
Ellicott City, Maryland 21043  
Phone: 443.325.7682 Fax: 443.325.7685  
Email: info@silladcock.com

DESIGN BY: PS  
DRAWN BY: PS, J.J.S./T  
CHECKED BY: PS  
SCALE: AS SHOWN  
DATE: MARCH 3, 2010  
PROJECT#: 07-093  
SHEET#: 9 of 12

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 20, 2011



**FOREST CONSERVATION NOTES**

- AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE, SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPING MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATIONS OF REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATES.
- THIS PLAN COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1000 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION. THE ON-SITE RETENTION OF 0.19 ACRES (7,941 SF) OF FOREST, AFFORESTATION/REFORESTATION PLANTING OF 0.17 ACRES (7,406 SF) OF FOREST AND THE REMAINING 0.46 ACRES (20,037.6 SF) OF FOREST PLANTING WILL BE PROVIDED BY THE FRIENDSHIP LAKES FOREST MITIGATION BANK (SDP-02-117). SURETY IN THE AMOUNT OF \$5,271.00 FOR REFORESTATION SHALL BE PAID WITH THE DEVELOPER'S AGREEMENT FOR THIS PLAN.
- SEE THE RECORDED PLAN FOR THE BEARING AND DISTANCE DESCRIPTIONS OF THE FOREST CONSERVATION EASEMENTS.

**FOREST CONSERVATION EASEMENT PLANT LIST (0.19 AC)**

QUANTITY	BOTANICAL NAME	SIZE	SPACING	NOTE
13	ACER RUBRUM RED SUNSET RED SUNSETED MAPLE	1" CAL.	15' x 15'	B & B
4	NYSSA SYLVATICA BLACK GUM	1" CAL.	15' x 15'	B & B
6	PRUNUS SEROTINA BLACK CHERRY	1" CAL.	15' x 15'	B & B
6	QUERCUS RUBRA RED OAK	1" CAL.	15' x 15'	B & B
4	CORNUS FLORIDA "WHITE FLOWERING DOGWOOD"	1" CAL.	15' x 15'	B & B
6	LINDERA BENZON "SPICEBUSH"	1" CAL.	15' x 15'	B & B
6	VIBURNUM DENTATUM "ARROWWOOD VIBURNUM"	1" CAL.	15' x 15'	B & B

TOTAL: 29 SHADE TREES, 10 SMALL TREES, AND 6 SHRUBS

**SPECIMEN TREE TABLE**

KEY	SIZE	TYPE	CONDITION	LOCATION	REMARKS
ST-1	48"	WALNUT	GOOD	L-1	

**NOTES**

- CONSULT INTERNATIONAL SOCIETY OF ARBORICULTURE GUIDELINES FOR FURTHER DETAILS OF PLANTING SPECIFICATIONS OR CONSULT WITH A QUALIFIED PROFESSIONAL.
- EACH TREE SHALL BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL.
- STAKES SHALL BE REMOVED NO LATER THAN THE END OF THE FIRST GROWING SEASON AFTER PLANTING.
- PLACE UPRIGHT STAKES PARALLEL TO WALKS & BUILDINGS.
- KEEP MULCH 1" FROM TRUNK.
- SEE ARCHITECTURAL PLANS FOR ADDITIONAL PLANTINGS WHICH EXCEED HOWARD COUNTY MINIMUM REQUIREMENTS.
- TREES ARE NOT TO BE PLANTED OVER PRIVATE SEWAGE EASEMENT.

**TYPICAL TREE PLANTING AND STAKING**

DECIDUOUS TREES UP TO 2-1/2" CALIPER NOT TO SCALE

**GENERAL CONSTRUCTION NOTES**

- FOREST PROTECTION**
- ALL FOREST RETENTION AREAS SHALL BE TEMPORARILY PROTECTED BY WELL ANCHORED BLAZE ORANGE PLASTIC MESH FENCING AND SIGNAGE AS INDICATED ON THE PLANS. THE DEVICES SHALL BE INSTALLED ALONG THE FOREST RETENTION BOUNDARY PRIOR TO ANY LAND CLEARING, GRUBBING, OR GRADING ACTIVITIES.
  - THE FOREST PROTECTION DEVICES SHALL BE INSTALLED SUCH THAT THE CRITICAL ROOT ZONES OF ALL TREES WITHIN THE RETENTION AREA NOT OTHERWISE PROTECTED WILL BE WITHIN FOREST PROTECTION DEVICES.
  - ALL PROTECTION DEVICES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION, INCLUDING SILT FENCE BEING USED AS PROTECTIVE FENCING. ALL DEVICES SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION HAS CEASED IN THE IMMEDIATE VICINITY.
  - ATTACHMENT OF SIGNS, OR ANY OTHER OBJECTS TO TREES IS PROHIBITED. NO EQUIPMENT, MACHINERY, VEHICLES, MATERIALS OR EXCESSIVE PEDESTRIAN TRAFFIC SHALL BE ALLOWED WITHIN THESE PROTECTED AREAS.
  - INSTALLATION AND MAINTENANCE OF PROTECTIVE FENCING AND SIGNAGE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL TAKE THE UTMOST CARE TO PROTECT TREE ROOT SYSTEMS DURING ALL CONSTRUCTION ACTIVITIES. TREE ROOT SYSTEMS SHALL BE PROTECTED FROM SMOTHERING, FLOODING, EXCESSIVE WETTING FROM DE-WATERING OPERATIONS, OFF-SITE RUN OFF, SPILLAGE AND DRAINING OF MATERIALS THAT MAY BE HARMFUL TO TREES.
  - THE GENERAL CONTRACTOR SHALL PREVENT PARKING OF CONSTRUCTION VEHICLES AND EQUIPMENT, AND THE STORING OF BUILDING SUPPLIES OR STOCKPILING OF EARTH WITHIN FOREST CONSERVATION EASEMENTS.
  - REMOVAL OF TOPSOIL OR ROOT MAT WITHIN THE TREE PRESERVATION AREA SHALL BE PROHIBITED.
  - THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY TREES DAMAGED OR DESTROYED WITHIN THE FOREST CONSERVATION EASEMENTS.
  - ROOT PRUNING SHALL BE USED AT THE LIMIT OF DISTURBANCE OR LIMIT OF GRADING WITHIN AND ADJACENT TO ALL PRESERVATION AREAS, AS NECESSARY.

**PRE-CONSTRUCTION MEETING**

- AFTER THE BOUNDARIES OF THE FOREST RETENTION AREAS HAVE BEEN FIELD LOCATED AND MARKED, AND AFTER THE FOREST PROTECTION DEVICES HAVE BEEN INSTALLED, BUT BEFORE ANY OTHER DISTURBANCE HAS TAKEN PLACE ON SITE, A PRE-CONSTRUCTION MEETING SHALL TAKE PLACE ON SITE. THE DEVELOPER, CONTRACTOR OR PROJECT MANAGER, AND HOWARD COUNTY INSPECTORS SHALL ATTEND. THE PURPOSE OF THIS MEETING WILL BE:
  - TO IDENTIFY THE LOCATIONS OF THE FOREST RETENTION AREAS, SPECIMEN TREES WITHIN 50 FEET OF THE LIMIT OF DISTURBANCE, LIMITS OF CONSTRUCTION, EMPLOYEE PARKING AREAS AND EQUIPMENT STAGING AREAS;
  - INSPECT ALL FLAGGED BOUNDARIES AND PROTECTION DEVICES;
  - MAKE ALL NECESSARY ADJUSTMENTS;
  - ASSIGN RESPONSIBILITIES AS APPROPRIATE AND DISCUSS PENALTIES.

**CONSTRUCTION MONITORING**

- THE SITE SHALL BE INSPECTED PERIODICALLY DURING THE CONSTRUCTION PHASE OF THE PROJECT. A QUALIFIED PROFESSIONAL SHALL BE RESPONSIBLE FOR IDENTIFYING DAMAGE TO PROTECTED FOREST AREAS OR INDIVIDUAL TREES WHICH MAY HAVE BEEN CAUSED BY CONSTRUCTION ACTIVITIES, SUCH AS SOIL COMPACTION, ROOT INJURY, TRUNK WOUNDS, LIMB INJURY, OR STRESS CAUSED BY FLOODING OR DROUGHT CONDITIONS. ANY SUCH DAMAGE THAT MAY OCCUR SHALL BE REMEDIATED IMMEDIATELY USING APPROPRIATE MEASURES. SEVERE PROBLEMS MAY REQUIRE CONSULTATION WITH A PROFESSIONAL ARBORIST.
- THE CONSTRUCTION PROCEDURES SHALL NOT DAMAGE AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE AS DESIGNATED ON THE PLANS. ANY DAMAGE SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE AND TO THE SATISFACTION OF THE DESIGN TEAM OR ENGINEER.

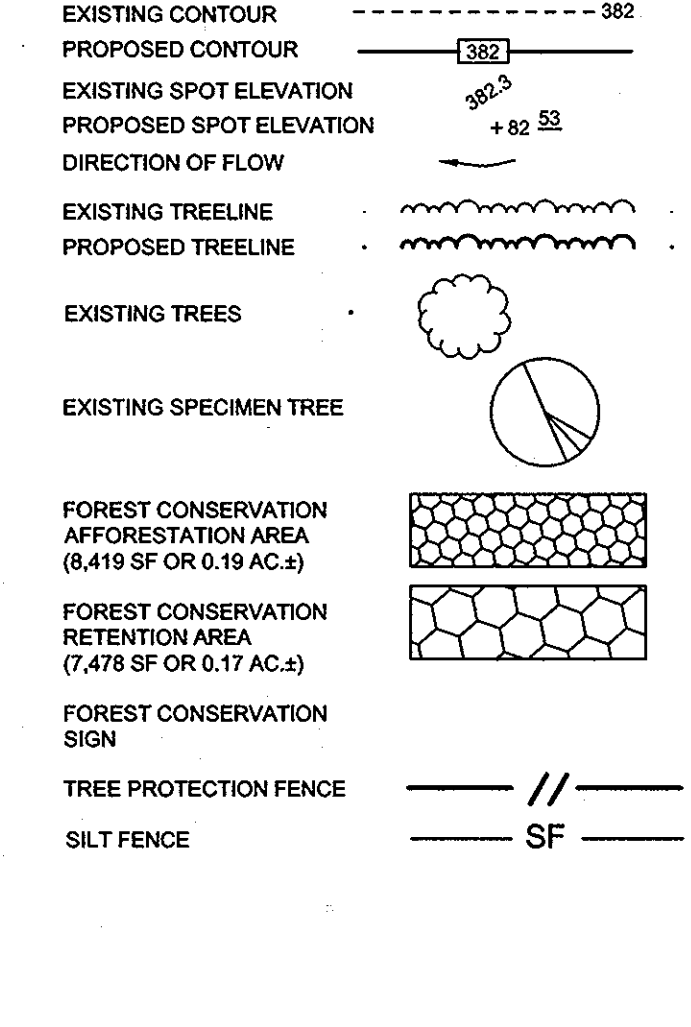
**REFORESTATION PLANTING NOTES**

- CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTILITY COMPANIES, UTILITY CONTRACTORS AND "MISS UTILITY" A MINIMUM OF 48 HOURS PRIOR TO BEGINNING WORK. CONTRACTOR SHALL BE WORK. CONTRACTOR MAY MAKE MINOR ADJUSTMENTS IN SPACING AND LOCATION OF PLANT MATERIAL TO AVOID CONFLICTS WITH UTILITIES.
- PLANTS, RELATED MATERIAL, AND OPERATIONS SHALL MEET THE DETAILED DESCRIPTION AS GIVEN ON THE PLANS AND AS DESCRIBED HEREIN.
- PLANT MATERIAL, UNLESS OTHERWISE SPECIFIED, SHALL BE NURSERY GROWN, UNIFORMLY BRANCHED AND HAVE A VIGOROUS ROOT SYSTEM. PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS PLANTS FREE FROM DEFECTS, DECAY, DISFIGURING TURNS, SUNSCALD INJURIES, ABRASIONS OF THE BARK, PLANT DISEASE, INSECT PEST EGGS, BOXERS, INFESTATIONS OR OBJECTIVE/UNDESIRABLE DISFIGUREMENTS. PLANT MATERIAL THAT IS WEAK OR WHICH HAS BEEN CUT BACK FROM LARGER GRASSES TO MEET SPECIFIED REQUIREMENTS WILL BE REJECTED. TREES WITH FORKED LEADERS WILL NOT BE ACCEPTED. PLANTS SHALL BE FRESHLY DUG, NO HEEL-IN PLANTS OR PLANTS FROM COLD STORAGE WILL BE ACCEPTED.
- UNLESS OTHERWISE SPECIFIED, PLANT MATERIAL SHALL CONFORM TO "AMERICAN STANDARD FOR NURSERY STOCK" ANSI Z60-1-1990, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INCLUDING ALL APPENDICES.
- UNLESS OTHERWISE SPECIFIED, GENERAL CONDITIONS, PLANTING OPERATIONS, DETAILS AND PLANTING SPECIFICATIONS SHALL CONFORM TO "LANDSCAPE SPECIFICATION GUIDELINES", HEREINAFTER "LANDSCAPE GUIDELINES" APPROVED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF METROPOLITAN WASHINGTON AND THE POTOMAC CHAPTER OF THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS, LATEST EDITION, INCLUDING ALL APPENDICES.
- CONTRACTOR WILL BE REQUIRED TO GUARANTEE PLANT MATERIAL FOR A PERIOD OF TWO YEARS AFTER DATE OF ACCEPTANCE AND MAINTAIN A 75% SURVIVABILITY AT THE END OF TWO YEARS.

**AFTER THE FIRST YEAR OF PLANTING A SOIL TEST SHOULD BE MADE AND A FERTILIZATION PROGRAM DETERMINED. CONTRACTORS ATTENTION IS DIRECTED TO THE "LANDSCAPE GUIDELINES" FOR FERTILIZING SPECIFICATIONS. SOIL SHOULD BE AN APPROXIMATE PH OF 6.0.**

- TO LESSEN THE CHANCE OF LOSS THE TREES SHOULD BE CHECKED FROM TIME TO TIME TO INSURE THAT THEY ARE RECEIVING SUFFICIENT WATER. IF NECESSARY, PLANTINGS SHOULD BE REGULARLY WATERED DURING DRY PERIODS UNTIL PLANTINGS ARE WELL ESTABLISHED IN ORDER TO MAINTAIN SURVIVABILITY.
- THE LOCATION AND ORIENTATION OF ALL PLANT MATERIAL SHALL BE RANDOMLY PLANTED IN DESIGNATED REFORESTATION AREAS BY THE LANDSCAPE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR MOVING ANY PLANT MATERIAL INSTALLED WITHOUT APPROVAL.
- MOWING AND APPLYING HERBICIDES TO THE REFORESTATION AREA IS PROHIBITED AT ANY AND ALL STAGES OF THE PLANTING PROCESS IN ORDER TO ENCOURAGE THE EXISTING SAPLINGS TO GROW.
- CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND PRUNING PLANT MATERIAL IN THE PROPER PLANTING SEASON FOR EACH PLANT TYPE. SEE TREE PLANTING AND MAINTENANCE CALENDAR.
- PLANTING MIX SHALL BE AS FOLLOWS:
  - DECIDUOUS PLANTS - TWO PARTS TOPSOIL, ONE PART WELL-ROTTED COW MANURE. ADD 3 LBS. OF STANDARD FERTILIZER PER CUBIC YARD OF PLANTING MIX.
  - TOPSOIL SHALL CONFORM TO THE LANDSCAPE GUIDELINES.
- THIS PLAN IS INTENDED FOR FOREST CONSERVATION USE ONLY. SEE OTHER PLAN SHEETS FOR MORE INFORMATION ON GRADING, SEDIMENT CONTROL, UTILITIES, LAYOUT, ETC.
- AFTER COMPLETION OF INSTALLATION, PROTECTIVE FENCING AND SIGNAGE SHALL BE INSTALLED AS SHOWN.

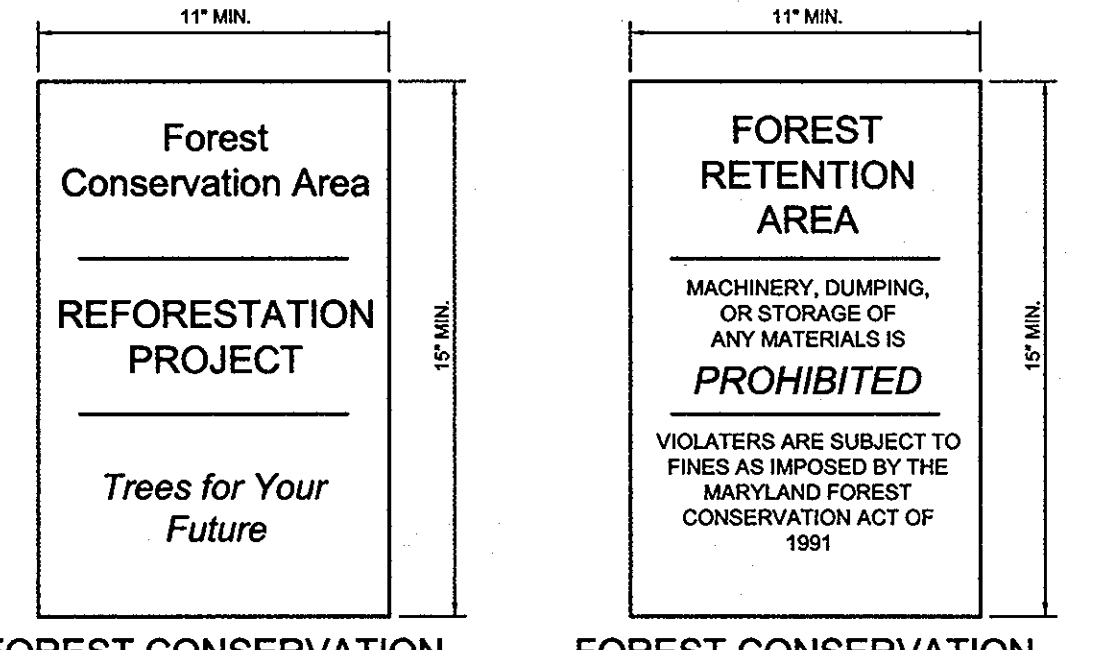
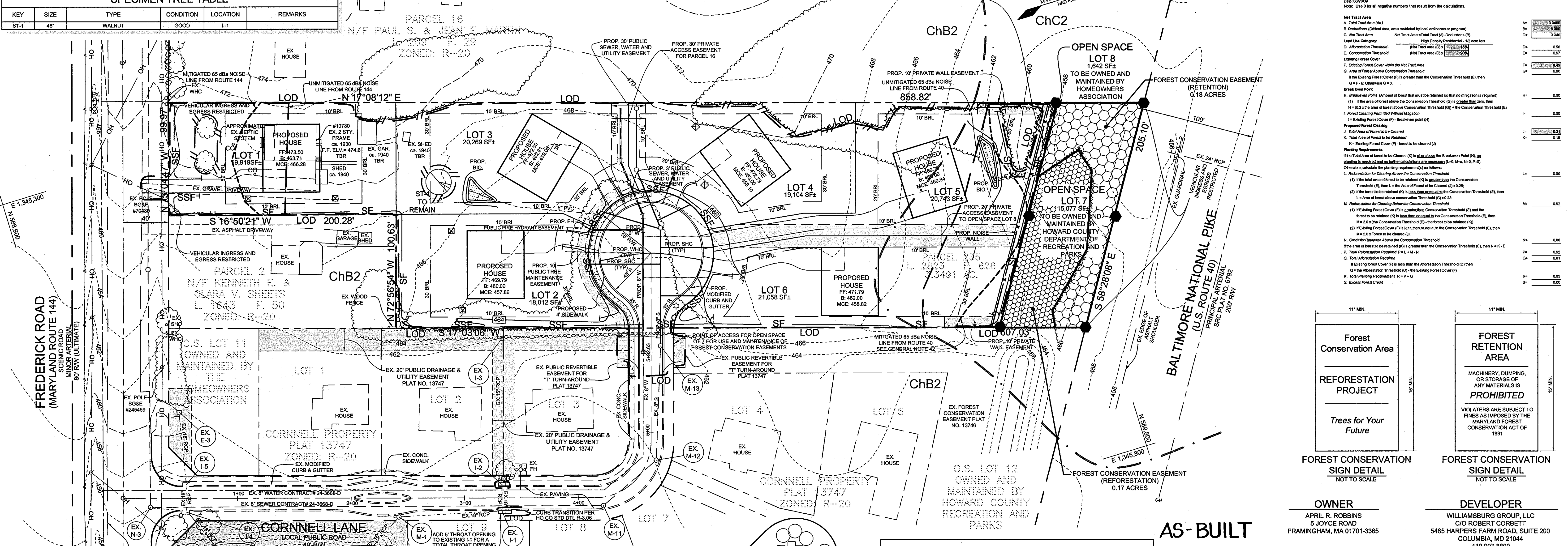
**LEGEND**



**ROBBINS PROPERTY FOREST CONSERVATION WORKSHEET 2.1**

Date: 06/20/09  
Note: Use 0 for all negative numbers that result from the calculations.

Net Tract Area	Value
A. Total Tract Area (Ac)	3.340
B. Deductions: Critical area, area restricted by local ordinance or program	0.000
C. Net Tract Area	3.340
D. Net Tract Area	3.340
E. Conservation Threshold	0.20%
F. Existing Forest Cover within the Net Tract Area	0.00
G. Area of Forest Above Conservation Threshold	0.00
H. Breakdown Point (Amount of forest that must be retained so that no mitigation is required)	0.00
I. Forest Clearing Permitted Without Mitigation	0.00
J. Proposed Forest Clearing	0.00
K. Total Area of Forest to be Retained	0.18
L. Total Area of Forest to be Cleared	0.00
M. Forest Retention Area	0.18
N. Credit for Retention Above the Conservation Threshold	0.00
O. Total Retention Required	0.18
P. Total Retention Required	0.18
Q. Total Retention Required	0.18
R. Total Retention Required	0.18
S. Bonus Forest Credit	0.00

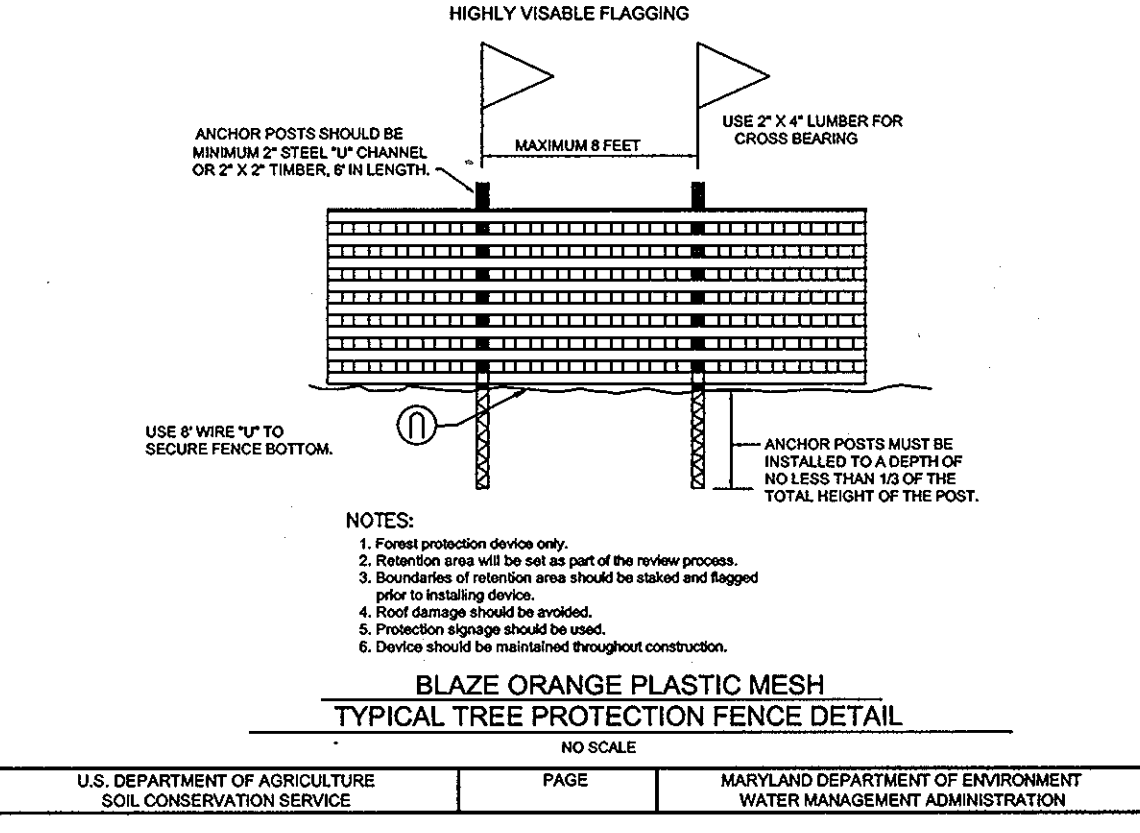


FOREST CONSERVATION SIGN DETAIL NOT TO SCALE

**OWNER**  
APRIL R. ROBBINS  
5 JOYCE ROAD  
FRAMINGHAM, MA 01701-3365

**DEVELOPER**  
WILLIAMSBURG GROUP, LLC  
C/O ROBERT CORBETT  
5485 HARPERS FARM ROAD, SUITE 200  
COLUMBIA, MD 21044  
410.997.8800

**AS-BUILT**



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE  
PAGE  
MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION  
DATE: 3/3/10

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

CHIEF, DIVISION OF LAND DEVELOPMENT  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

DATE: 4/1/10  
DATE: 4/1/10

**PLAN VIEW**  
SCALE: 1"=40'  
AS-BUILT CERTIFICATION

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

NOTE: ALL TREE & SHRUB SPECIES TO BE DISTRIBUTED RANDOMLY IN SMALL GROUPINGS, SHRUBS TO BE EVENLY DISTRIBUTED THROUGHOUT PLANTING AREA.

**RANDOM PLANTING DISTRIBUTION PLAN**  
DATE: 2-10-12

**FINAL FOREST CONSERVATION PLAN**  
**STONEFIELD II**  
LOTS 1-6 AND OPEN SPACE LOTS 7 & 8

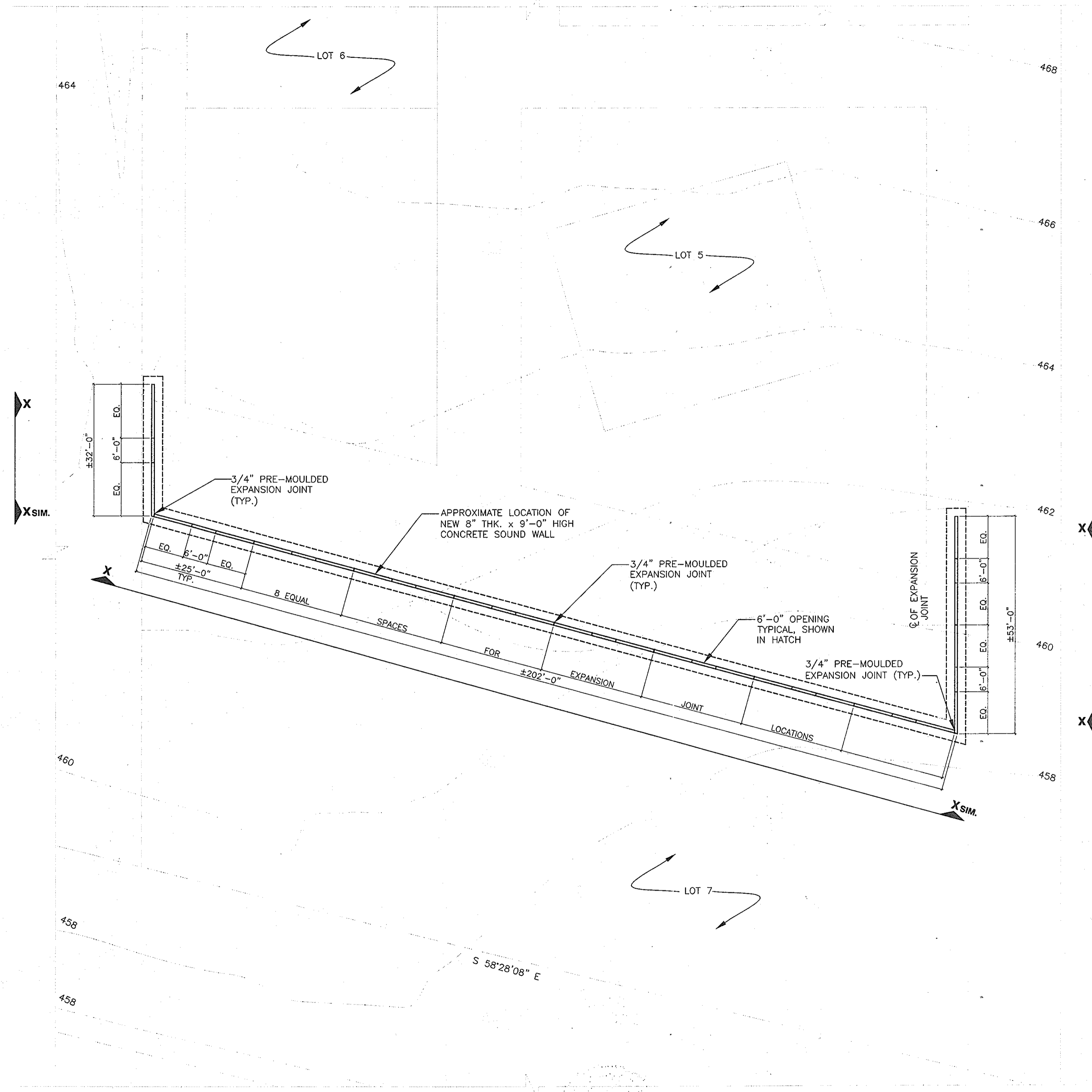
TAX MAP 16 GRID 23  
2ND ELECTION DISTRICT  
PARCEL 235  
HOWARD COUNTY, MARYLAND

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

DESIGN BY: PS  
DRAWN BY: PS, JJ, SJT  
CHECKED BY: PS  
SCALE: AS SHOWN  
DATE: MARCH 3, 2010  
PROJECT #: 07-093  
SHEET #: 10 of 12



- NOTES:-**
1. REFER ARCH. DWGS. FOR DIMENSIONS.
  2. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE IS 3000 PSI @ 28 DAYS
  3. PROVIDE EXPANSION JOINTS @ 25'-0" O.C. MAXIMUM, AS SHOWN
  4. FASTEST MILE WIND SPEED = 75 MPH
  5. LOCATION OF OPENING IN WALL SHOWN IS BASED ON INFORMATION PROVIDED BY SILL-ADCOCK & ASSOCIATES, LLC (DESIGNED BY OTHERS)



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. 20095, EXPIRATION DATE: 12/31/11 # 11702

**OWNER**  
 APRIL R. ROBBINS  
 5 JOYCE ROAD  
 FRAMINGHAM, MA 01701-3365

**DEVELOPER**  
 WILLIAMSBURG GROUP, LLC  
 C/O ROBERT CORBETT  
 5485 HARPERS FARM ROAD, SUITE 200  
 COLUMBIA, MD 21044  
 410.997.8803

**AS-BUILT CERTIFICATION**

THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.

*Michael D. Adcock*  
 MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR  
 MD REG. NO. 21297, EXPIRATION DATE: 06-16-13

2-10-12  
 DATE



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Neil Sheelovon*  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 DATE: 4/17/10

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

*Mark R. Johnson*  
 CHIEF, BUREAU OF HIGHWAYS  
 DATE: 4-7-10

**9'-0" HIGH CONCRETE SOUND WALL LOCATION PLAN**  
 (SCALE: 1/16" = 1'-0")

**AS-BUILT**

**CE CONSULTING ENGINEERS, CORP.**  
 ENGINEERING CONSULTANTS

11480 SUNSET HILLS ROAD  
 SUITE # 200-E  
 RESTON VA 20190-5208

PHONE : (703) 481-2100  
 FAX : (703) 431-3200



**SOUND WALL LOCATION PLAN & DETAILS**  
**STONEFIELD II**  
 LOTS 1-6 AND OPEN SPACE LOTS 7 & 8  
 TAX MAP 16 GRID 23  
 2ND ELECTION DISTRICT

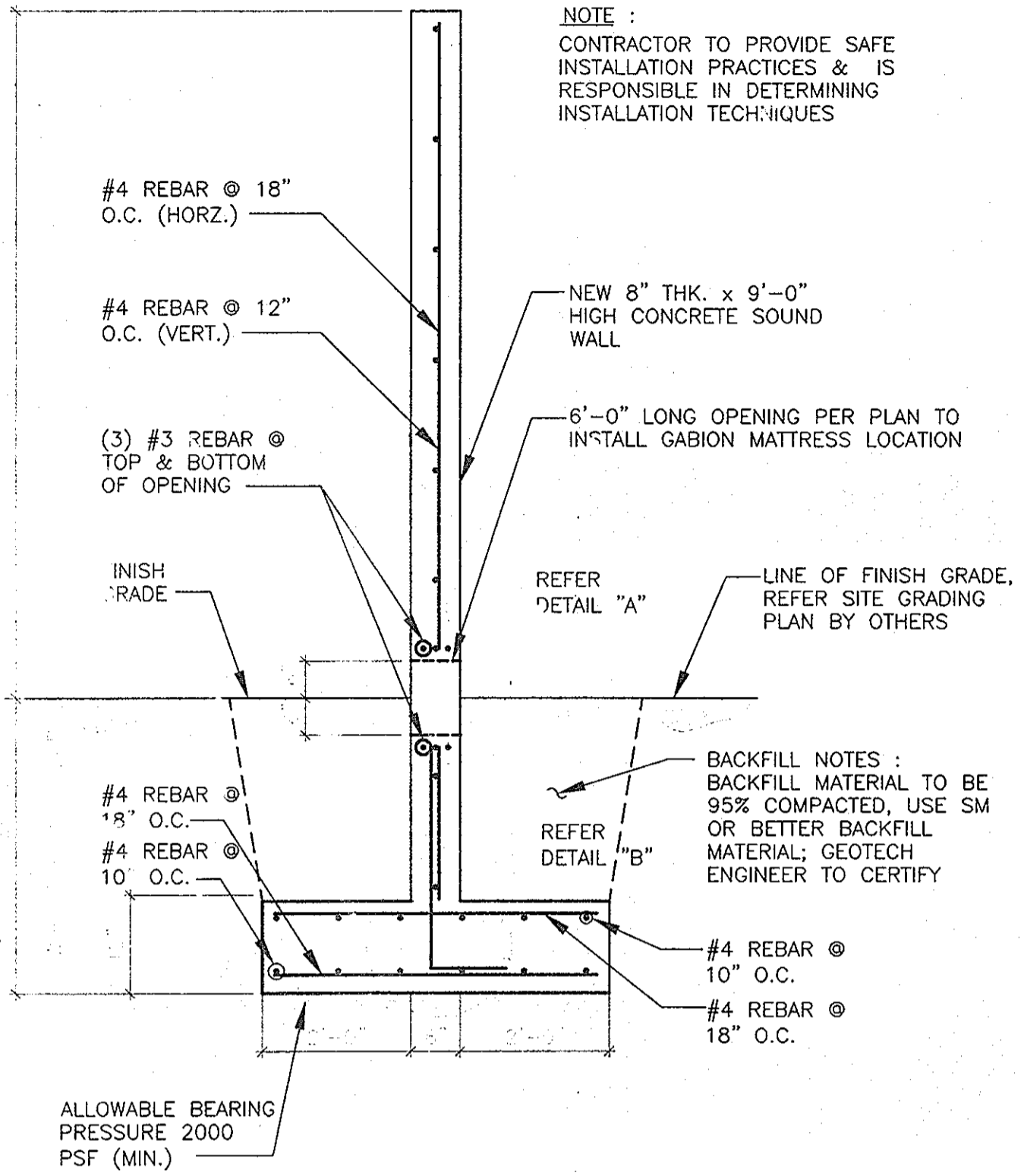
PARCEL 235  
 HOWARD COUNTY, MARYLAND

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

DESIGN BY: SS  
 DRAWN BY: MP  
 CHECKED BY: PS  
 SCALE: AS NOTED  
 DATE: NOVEMBER, 2009  
 PROJECT #: 07-093  
 SHEET #: 11 of 12

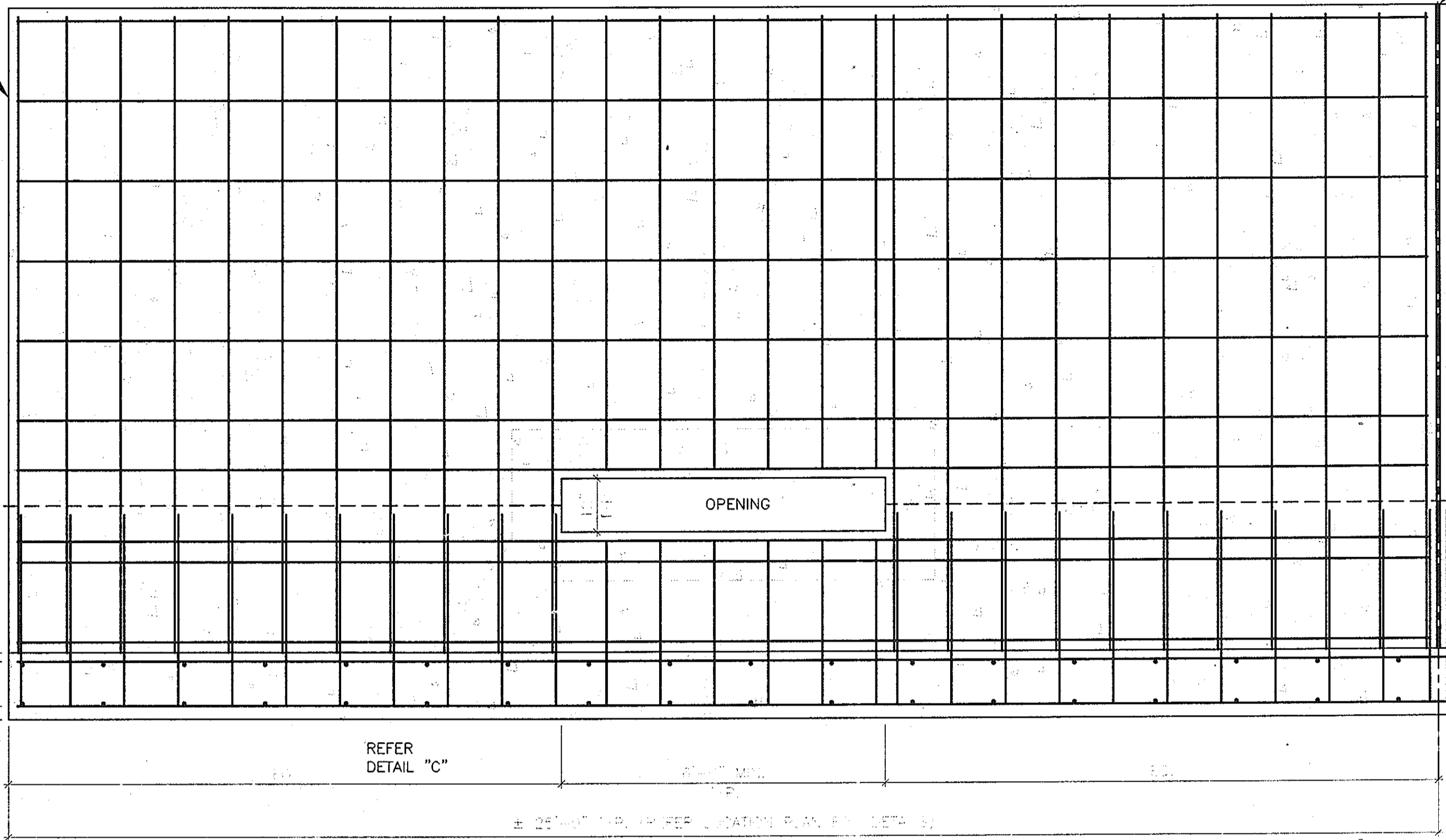
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2011



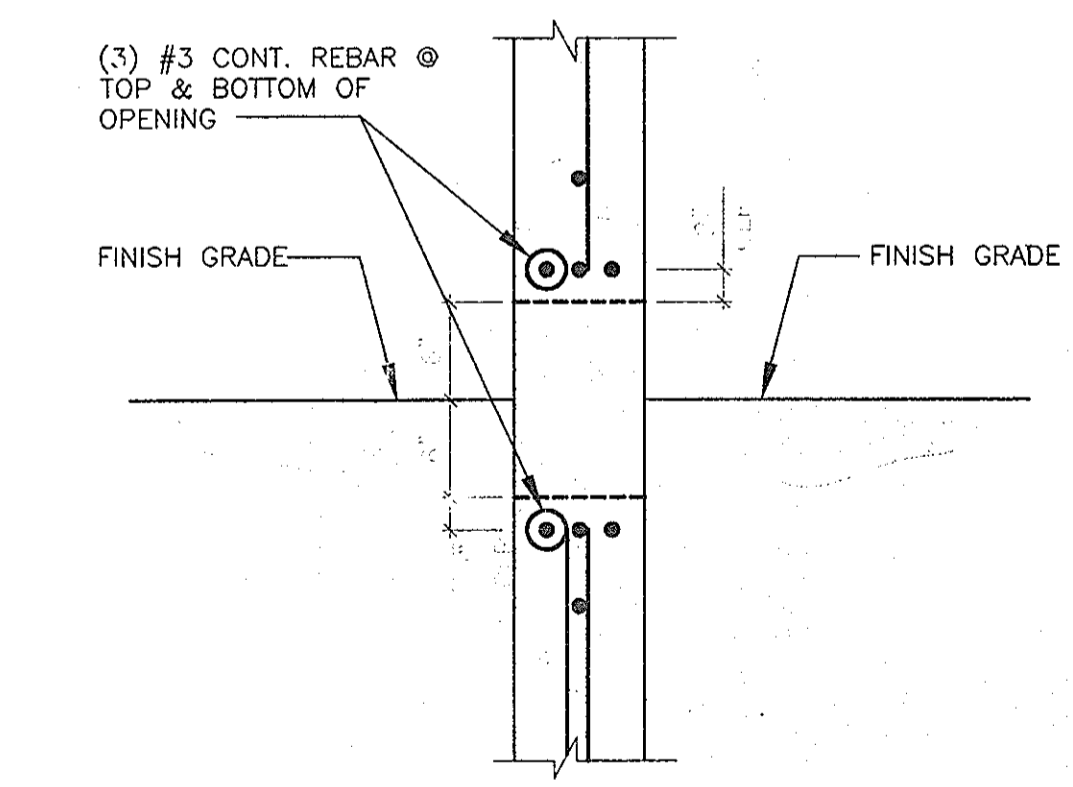


**1 SECTION A-A**  
 (9'-0" HIGH CONCRETE SOUND WALL)  
 SCALE: 1/2"=1'-0"

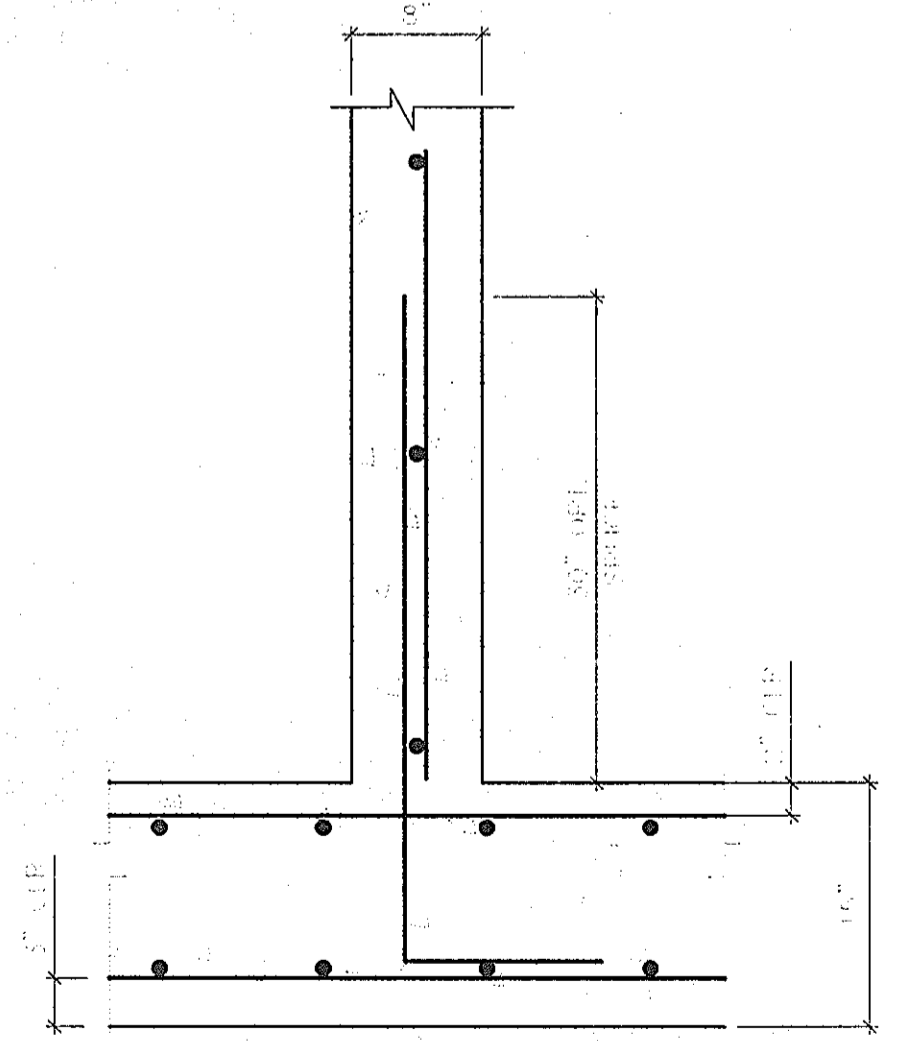
END CONDITION WHERE OCCURS PER PLAN



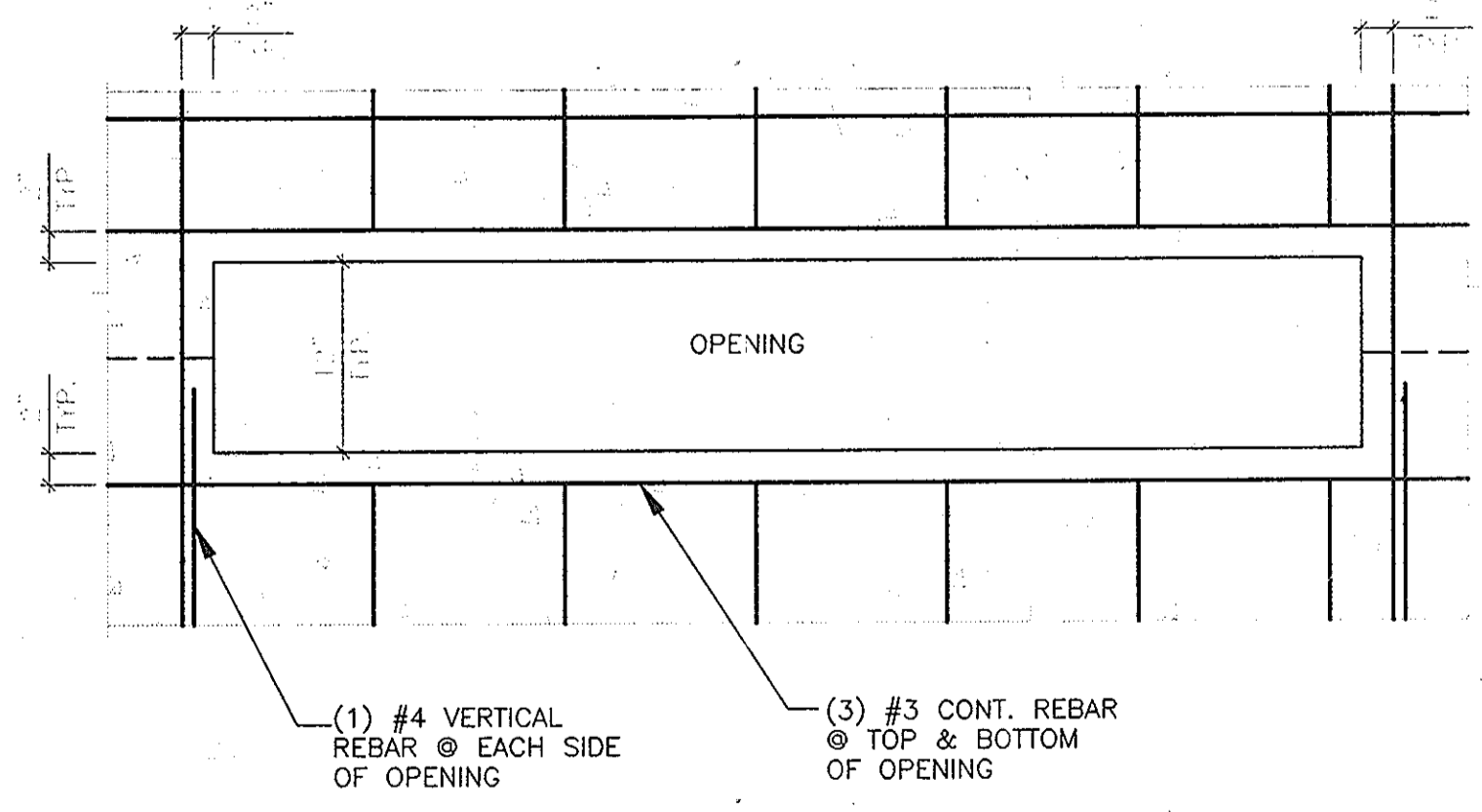
**2 TYPICAL WALL ELEVATION X-X**  
 SHOWING REINFORCEMENT  
 SCALE: 1/2"=1'-0"



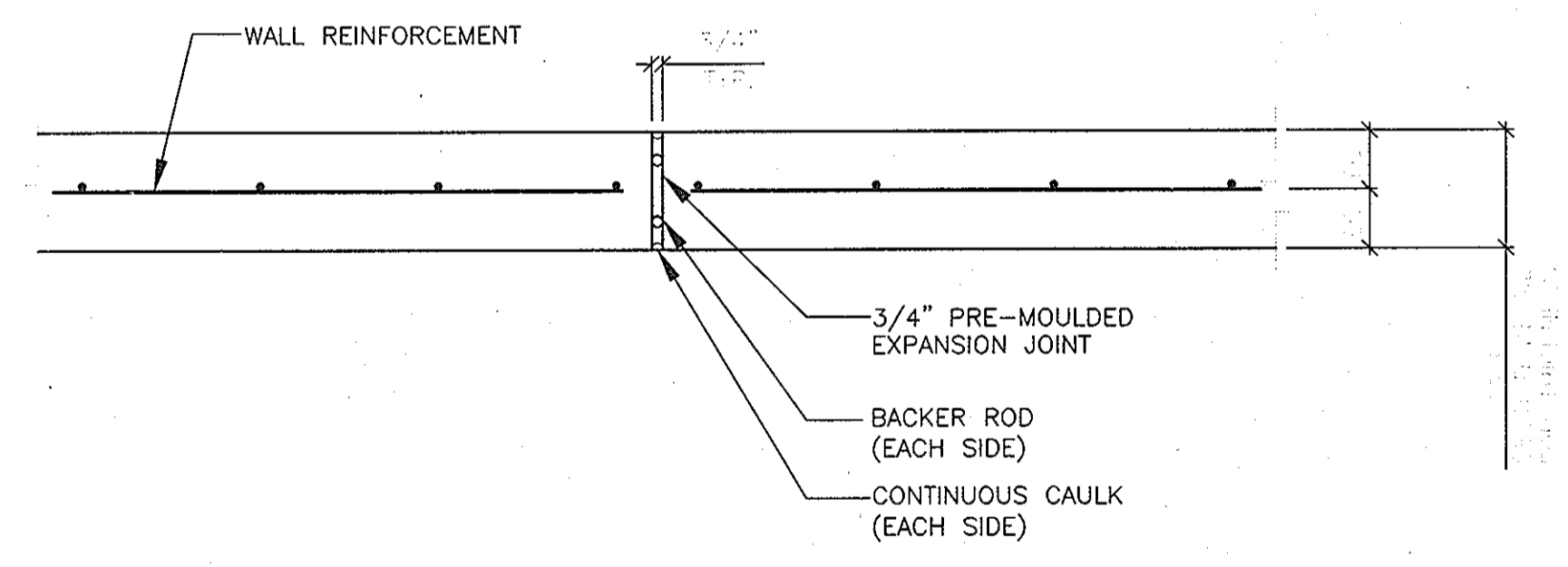
**3 DETAIL - \"A\"**  
 SCALE: 1\"/>



**4 DETAIL - \"B\"**  
 SCALE: 1\"/>



**5 OPENING REINFORCEMENT DETAIL \"C\"**  
 SCALE: 1\"/>



**6 TYPICAL EXPANSION JOINT DETAIL**  
 SCALE: 1\"/>

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 [Signature] 4/19/10  
 CHIEF, DIVISION OF LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 [Signature] 4-7-10  
 CHIEF, BUREAU OF HIGHWAYS

AS-BUILT CERTIFICATION  
 THERE IS NO "AS-BUILT" INFORMATION PROVIDED ON THIS SHEET.  
 [Signature] 2-10-12  
 MICHAEL D. ADCOCK, PROFESSIONAL LAND SURVEYOR  
 MD REG. NO. 21237, EXPIRATION DATE: 06-16-13



**AS-BUILT**

CONSULTING ENGINEERS, CORP.  
 ENGINEERING CONSULTANTS  
 11480 SUNSET HILLS ROAD SUITE # 200-E RESTON VA 20190-5208  
 PHONE : (703) 481-2100 FAX : (703) 481-3200

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**SOUND WALL LOCATION PLAN & DETAILS**  
**STONEFIELD II**  
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DESIGN BY: SS  
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 SCALE: AS NOTED  
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 PROJECT #: 07-093  
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