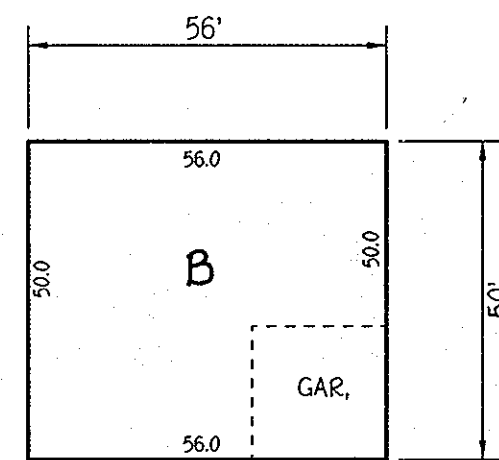
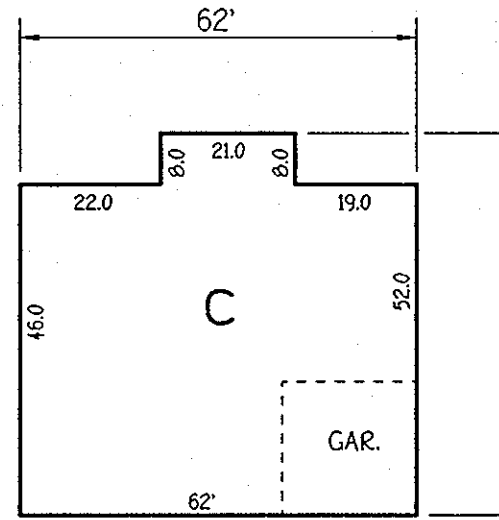


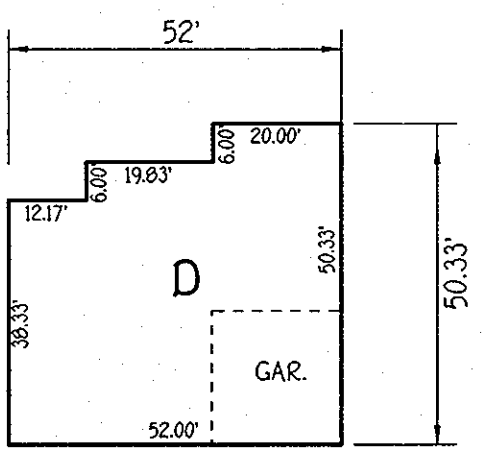
ARMISTEAD II
W/ALL OPTIONS
AUSTIN WESLEY
NO/ OPT. WRAP PORCH
CHAMBERLAIN II
NO/ OPT. WRAP PORCH
NO/ OPT. ELEV. 10
SHERMAN W/ALL OPTIONS
BIRMINGHAM NO SUNROOM
GILMOR II
W/ALL OPTIONS



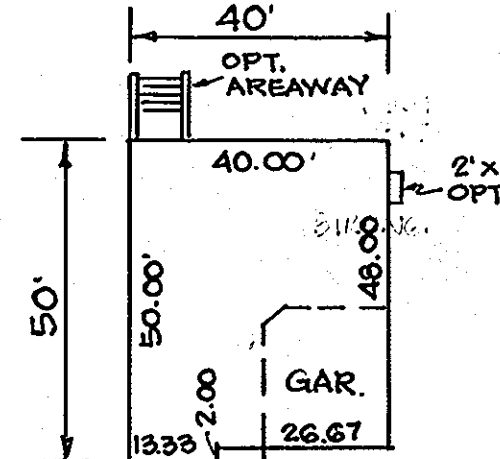
ARMISTEAD II
W/ALL OPTIONS
AUSTIN WESLEY
NO/ OPT. WRAP PORCH
CHAMBERLAIN II
NO/ OPT. WRAP PORCH
JAMES LONGSTREET
W/ALL OPTIONS
SHERMAN W/ALL OPTIONS
ELLCOTT
BIRMINGHAM W/ALL OPTIONS
GILMOR II
W/ALL OPTIONS



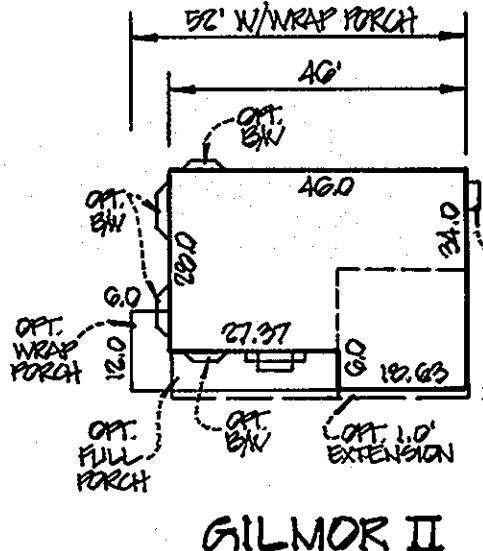
ARMISTEAD II
W/ALL OPTIONS
AUSTIN WESLEY
W/ALL OPTIONS
CHAMBERLAIN II
W/ALL OPTIONS
CLAIRMONT
W/ALL OPTIONS
JAMES LONGSTREET
W/ALL OPTIONS
SHERMAN
W/ALL OPTIONS
ELLCOTT
BIRMINGHAM W/ALL
OPTIONS
GILMOR II
W/ALL OPTIONS



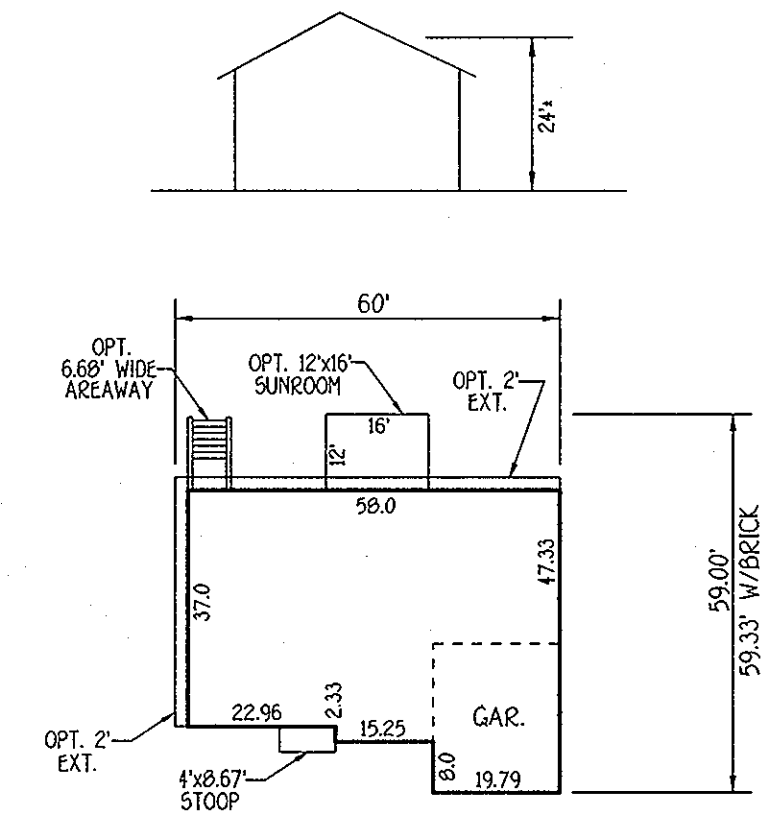
ARMISTEAD II 1/6 REAR OPT. SUN ROOM
W/ALL OPTIONS
CHAMBERLAIN II
NO/ OPT. WRAP PORCH
NO/ OPT. 2' SIDE EXT.
SHERMAN
NO/ OPT. WRAP PORCH
BIRMINGHAM NO SUNROOM
GILMOR II
W/ALL OPTIONS



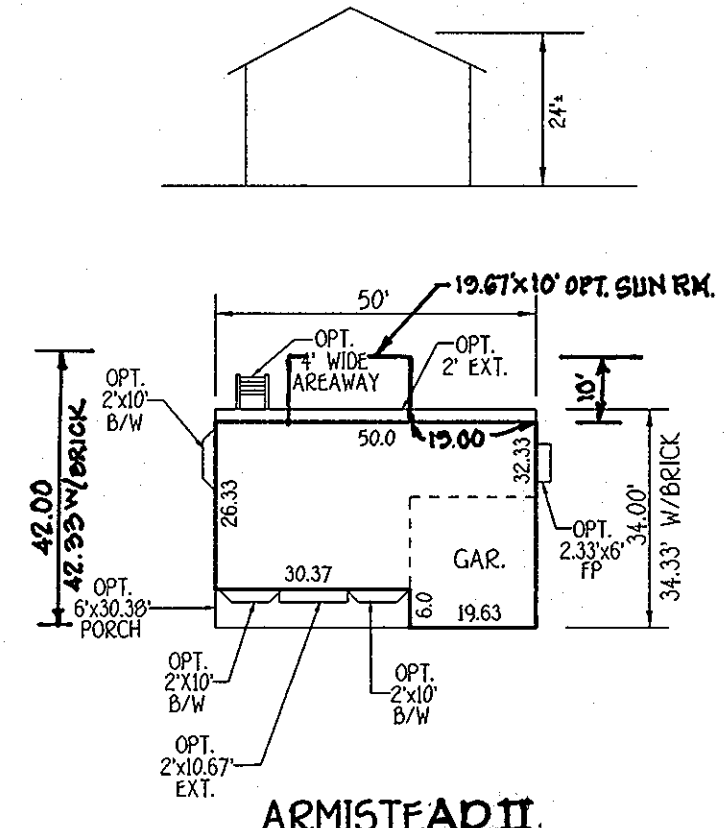
ELLCOTT



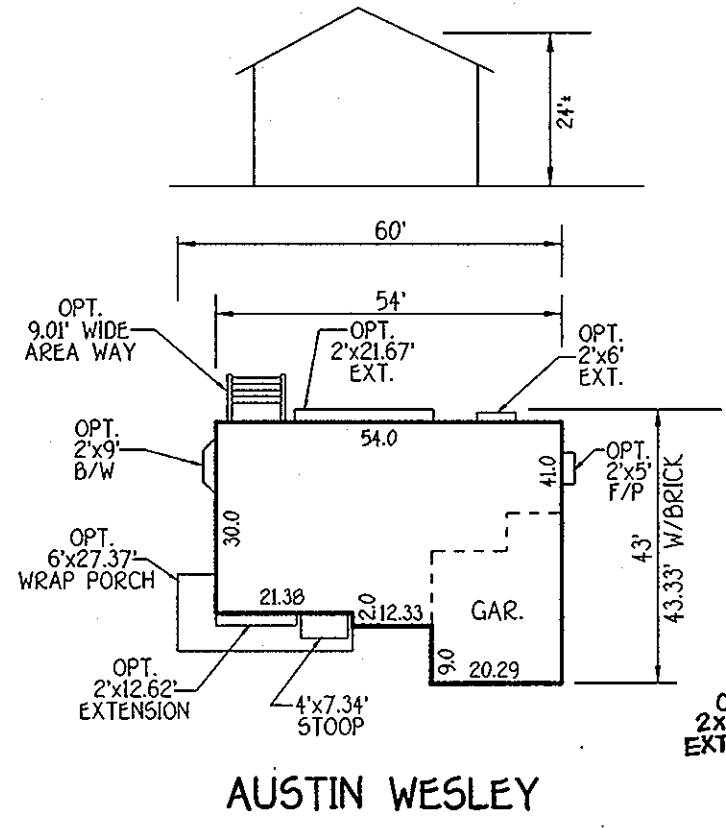
GILMOR II



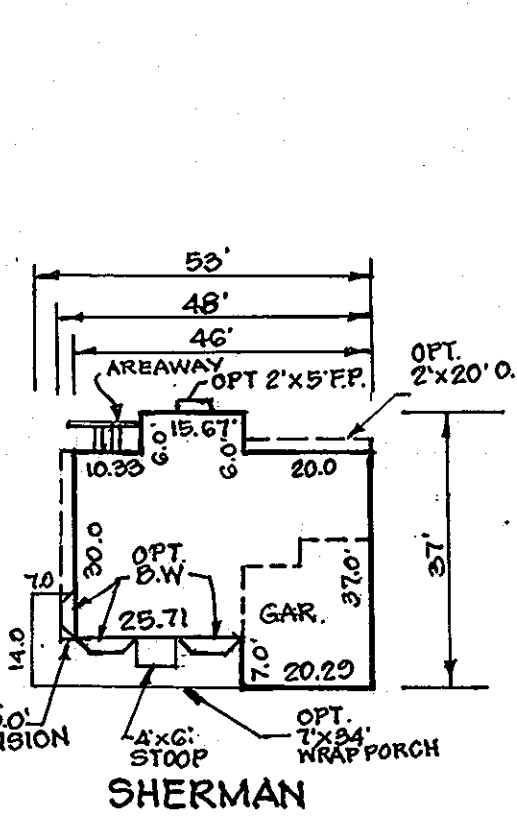
CLAIRMONT



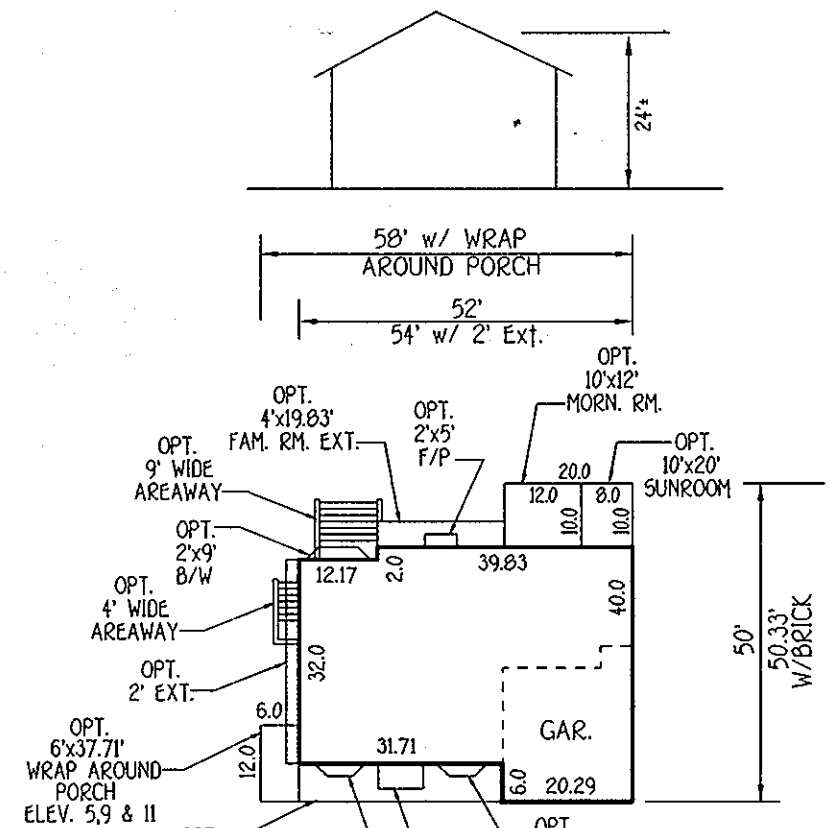
ARMISTEAD II



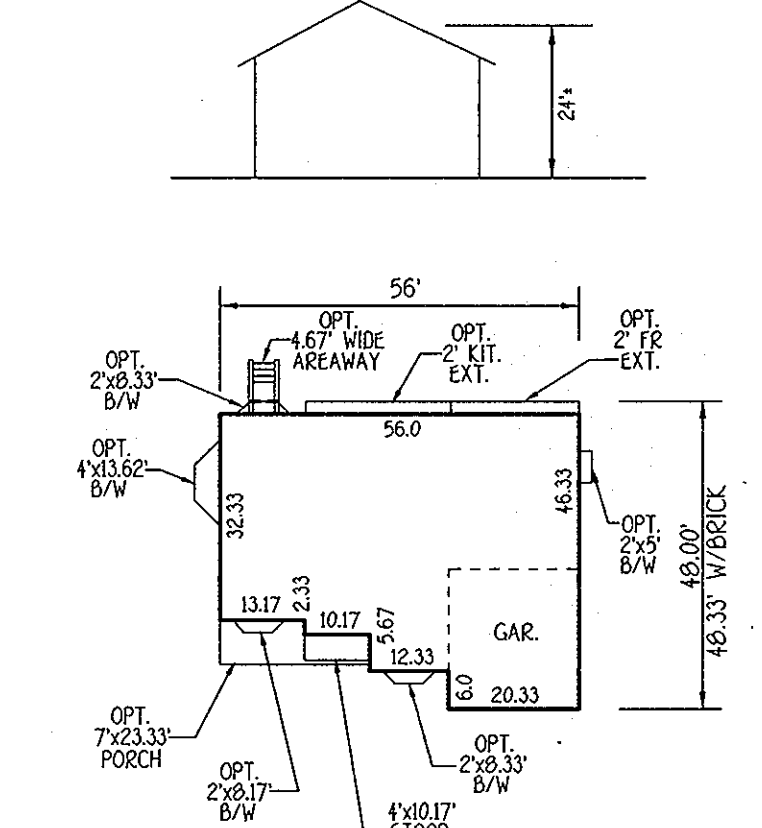
AUSTIN WESLEY



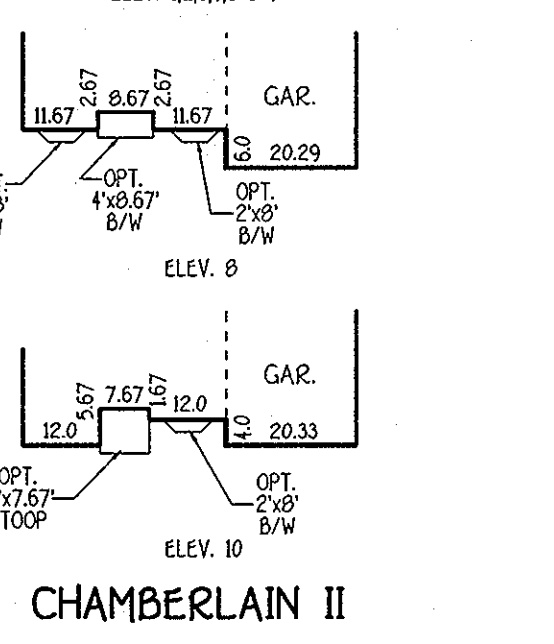
SHERMAN



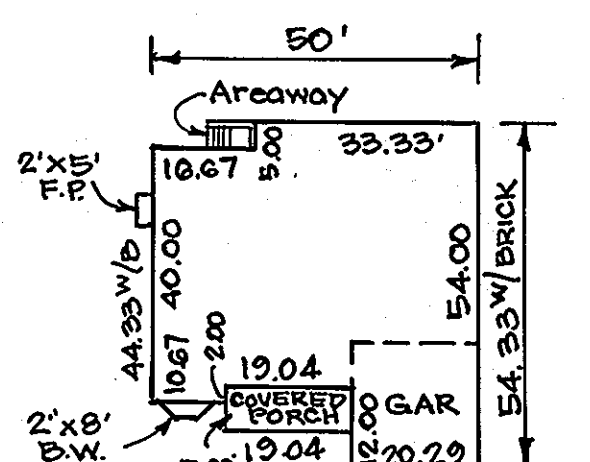
JAMES LONGSTREET



THE BIRMINGHAM



CHAMBERLAIN II



ALEXIS MARIE II

LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 2' INTERVAL
+362.2	SPOT ELEVATION
---	WALKOUT BASEMENT
TP	TREE PROTECTION
---	SUPER SILT FENCE / TREE PROTECTION
---	SUPER SILT FENCE
---	EROSION CONTROL MATTING
---	LIMIT OF DISTURBANCE
---	STREET LIGHT PER F-07-73
---	LANDSCAPING PER F-07-73
---	STREET TREES PER F-07-73

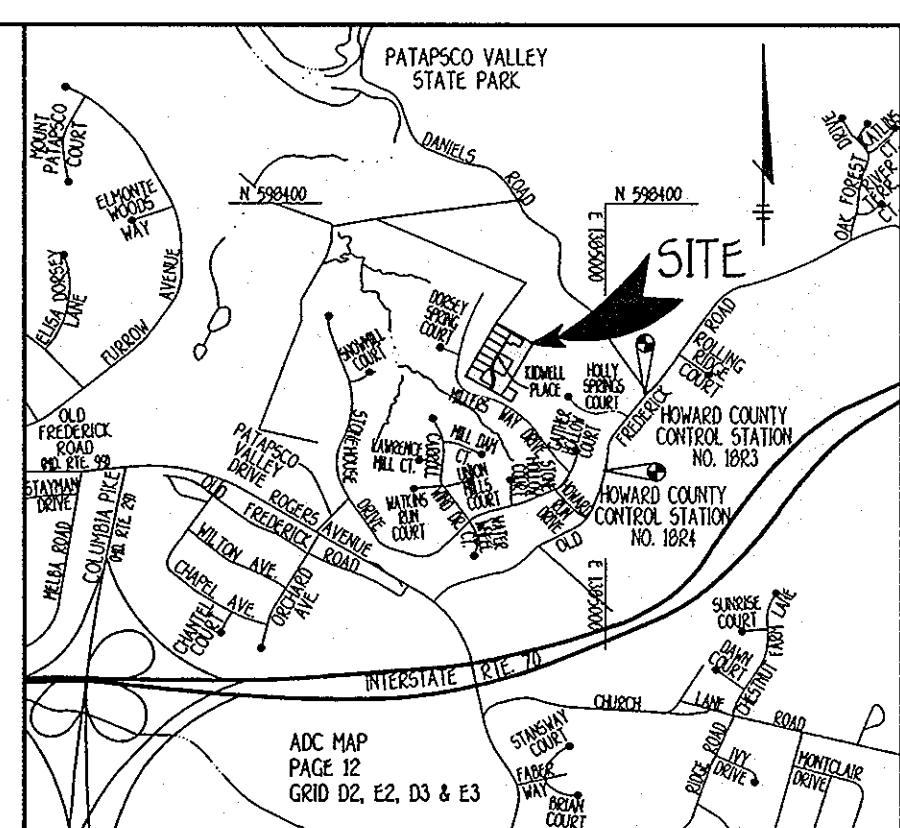
SITE ANALYSIS DATA CHART

- TOTAL PROJECT AREA: 7.77 ACRES OR 338462.00 SQUARE FEET.
- AREA OF SUBMISSION: 4.519 ACRES OR 196956 SQUARE FEET.
- LIMITS OF DISTURBANCE: 3.05 ACRES OR 132918.29 SQUARE FEET.
- PRESENT ZONING DESIGNATION: R-20.
- PROPOSED USES FOR SITE: RESIDENTIAL.
- APPLICABLE DPZ FILE REFERENCES: SP-03-004, WP-08-026, F-07-073 AND WATER & SEWER CONTRACT NO. 14-4103-D.

BENCH MARKS

T.P. 1843 ELEV. 459.680
N. 595.747.870
E. 1.367.360.555
L.O.C. APPROX. 100' NW FROM
INTERSECTION OF OLD FREDERICK
ROAD & DANIELS ROAD

T.P. 1844 ELEV. 475.951
N. 595.543.252
E. 1.366.000.879
L.O.C. NEAR THE INTERSECTION OF
OLD FREDERICK ROAD AND GRAVEL
DRIVE OF HOUSE NO. 8599



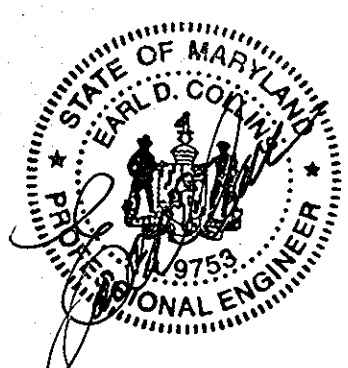
GENERAL NOTES

- SUBJECT PROPERTY ZONED R-20 PER THE COMPREHENSIVE ZONING PLAN DATED 2/2/04 AND THE COMP. LITE ZONING AMENDMENT EFFECTIVE 7/28/06.
- TOTAL AREA OF SITE: 7.77 ACRES.
- TOTAL NUMBER OF LOTS SUBMITTED: 14. 50' HOUSE ON LOT 16 TO REMAIN.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/ CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE WORKING DAYS PRIOR TO START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "8655 UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- THIS SITE IS BASED ON A FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON OR ABOUT AUGUST, 2007 BY FISHER, COLLINS AND CARTER, INC.
- ALL LOT AREA ARE MORE OR LESS 1' OR 2'.
- PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT. PUBLIC WATER AND SEWER IS UTILIZED IN THIS SUBDIVISION.
- PREVIOUS DEPARTMENT OF PLANNING AND ZONING FILE NUMBERS: SP-03-004, WP-08-026, F-07-073, AND WATER & SEWER CONTRACT NO. 14-4103-D.
- HORIZONTAL AND VERTICAL CONTROL DATUM IS BASED ON NAD 83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS.
- HOWARD COUNTY MONUMENT 1823 N 595.747.870 E 1.367.360.555 ELEV. 459.680
HOWARD COUNTY MONUMENT 1844 N 595.543.252 E 1.366.000.879 ELEV. 475.951
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING.
- SEWER HOUSE CONNECTION ELEVATIONS SHOWN ARE LOCATED AT THE PROPERTY LINE.
- FOR DRIVEWAY ENTRANCE DETAILS REFER TO HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAIL R-6-03 AND R-6-05.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
A) WIDTH - 12' (8' SERVING MORE THAN ONE RESIDENCE).
B) SURFACE - 6" OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MIN).
C) GEOMETRY - MAXIMUM 1% GRADE, MAXIMUM 10% GRADE CHANGE AND 45 FOOT TURNING RADII.
D) STRUCTURES - (BRIDGES/CULVERTS) CAPABLE OF SUPPORTING 25 GROSS TONS (#25-LOADING)
E) DRAINAGE ELEMENTS - CAPABLE OF SAFETY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.
F) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
- TRAFFIC REPORT WAS PREPARED BY TRAFFIC GROUP, INC. AND APPROVED UNDER SP-03-004.
- NO CEPTERIES EXIST ON THIS SITE BASED ON A VISUAL SITE VISIT AND AN EXAMINATION OF THE HOWARD COUNTY CEPTERY INVENTORY MAP.
- NO 100 YEAR FLOOD PLAIN EXISTS ON SITE.
- THIS PLAN IS IN COMPLIANCE WITH THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PER COUNCIL BILL 45-2003 AND THE ZONING REGULATIONS AS AMENDED BY COUNCIL BILL 75-2003. DEVELOPMENT OR CONSTRUCTION ON THESE LOTS 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.
- 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 SETBACKS.
- WETLAND AND STREAM DELINEATION WAS TAKEN FROM REPORTS PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. DATED SEPTEMBER, 2001 AND APPROVED UNDER SP-03-004. THERE ARE NO WETLANDS LOCATED ON THIS SITE.
- STORMWATER MANAGEMENT WILL BE PROVIDED IN ACCORDANCE WITH HOWARD COUNTY AND MARYLAND 378 SPECIFICATIONS. WATER QUALITY WILL BE PROVIDED BY A DRY SHALE (B.M.P. #3) LOCATED ON OPEN SPACE LOT 14. TWO BIO-RETENTION FACILITIES (B.M.P. NO'S 1 & 2) LOCATED ON OPEN SPACE LOT 1 AND LOT 15 FOR LOTS 2, 3, 4, 15, AND 502 OF LOT 5 PER F-07-073.
- THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, PER F-07-073.
- THE FOREST CONSERVATION REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT FOR THIS SUBDIVISION WILL BE FULFILLED BY PROVIDING 109 ACRES OF ON-SITE FOREST RETENTION, 1.35 OF ON-SITE REFORESTATION AND THE BALANCE OF 0.43 ACRES OF REFORESTATION OBLIGATION WILL BE PROVIDED BY A FEE-IN-LIEU PAYMENT OF \$40,000. A TOTAL FOREST SURETY OF \$300,000, PER F-07-073.
- A PERIMETER LANDSCAPE SURETY FOR 36 SHADE TREES AND 15 EVERGREEN TREES IN THE AMOUNT OF \$10,050.00 IS PROVIDED IN THE DEVELOPER'S AGREEMENT. IN ADDITION A STREET TREE SURETY FOR 33 TREES IN THE AMOUNT OF \$9,000.00 IS PROVIDED WITH F-07-073.
- NO GRADING, DRIVING OR CONSTRUCTION OF TREES, FENCING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE WETLANDS, STREAMS OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100 YEAR FLOODPLAIN.
- HOUSE SHOWN ON LOT 15 IS TO REMAIN.
- WAIVER PETITION WP-08-026 WAS APPROVED ON NOVEMBER 2, 2007.
- FIRST FLOOR SEWER SERVICE ONLY FOR LOTS 7, 8, 9, & 10. THE WAIVER OF BASEMENT GRAVITY SERVICE HAS BEEN APPROVED BY THE BUREAU OF ENGINEERING IN A LETTER DATED NOVEMBER 20, 2007.
- THE "PRIVATE ACCESS PLACE" MAINTENANCE HAS BEEN RECORDED AMONG THE HOWARD COUNTY LAND RECORDS ON MARCH 20, 2008 AS LIBER 1166, FOLIO 693

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
2	2611 KIDWELL PLACE
3	2615 KIDWELL PLACE
4	2619 KIDWELL PLACE
5	2623 KIDWELL PLACE
6	2627 KIDWELL PLACE
7	2631 KIDWELL PLACE
8	2635 KIDWELL PLACE
9	2634 KIDWELL PLACE
10	2630 KIDWELL PLACE
11	2626 KIDWELL PLACE
12	2622 KIDWELL PLACE
13	2618 KIDWELL PLACE
15	2766 MILLERS WAY DRIVE
16	2740 MILLERS WAY DRIVE

INDEX CHART	
SHEET	DESCRIPTION
SHEET 1	TITLE SHEET, HOUSE TYPES, TEMPLATES
SHEET 2	SITE DEVELOPMENT PLAN, LOTS 2-13
SHEET 3	SITE DEVELOPMENT PLAN, LOT 15
SHEET 4	SEDIMENT/EROSION CONTROL PLAN, LOTS 2-13
SHEET 5	SEDIMENT/EROSION CONTROL PLAN, LOT 15
SHEET 6	SEDIMENT/EROSION CONTROL NOTES & DETAILS

NO.	REVISION	DATE
5	ADD GILMOR II HOUSE TYPE	10/26/07
4	ADD ALEXIS MARIE II HOUSE MODEL	8/10/07
3	ADD BIRMINGHAM MODEL TO SDP	7-4-07
2	ADD ELLICOTT MODEL & ADD TO GEN. NOTES B+C	5-1-07
1	ADD OPT. SUN RM. TO ARMISTEAD II & SHERMAN	2/16/06



ENGINEER'S CERTIFICATE
"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
Signature of Engineer: *Earl D. Collins* Date: 5-19-08

BUILDER/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 any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for a Control of Sediment and Erosion before beginning the project. I/we certify that the project was inspected by the Howard Soil Conservation District."
Signature of Developer: *Robert Dorsey* Date: 5-20-08

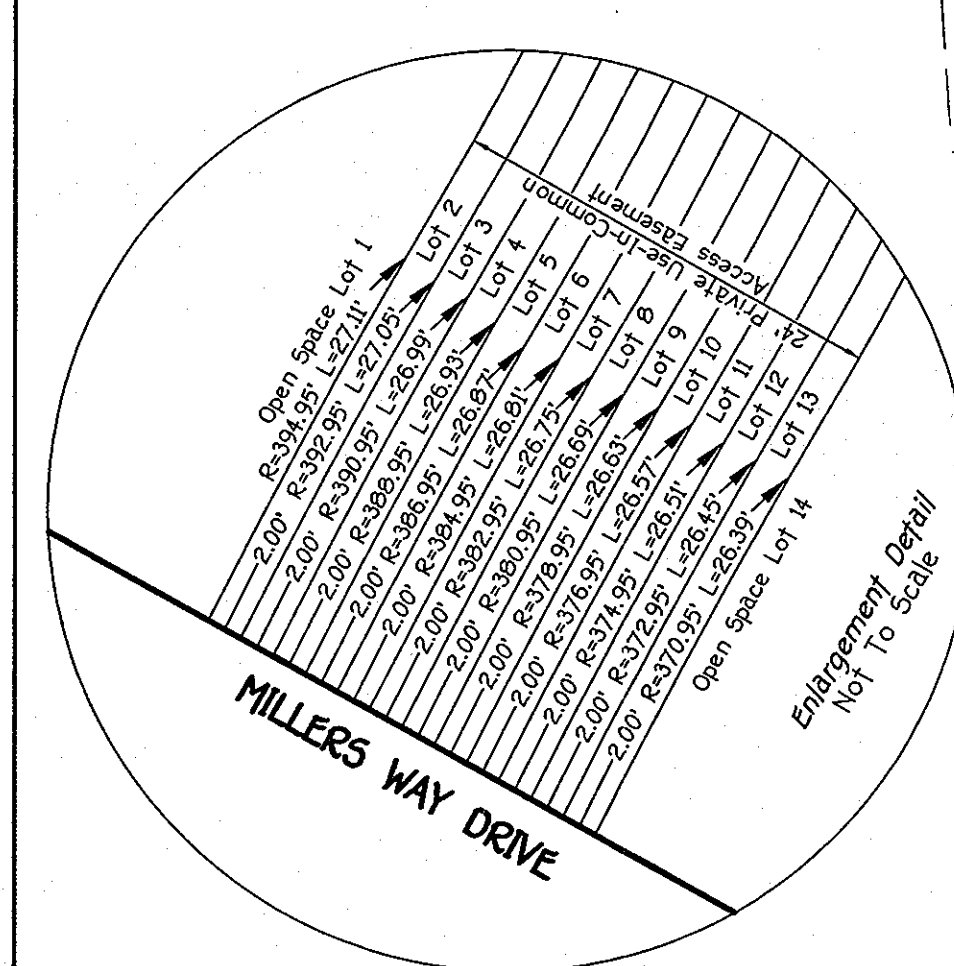
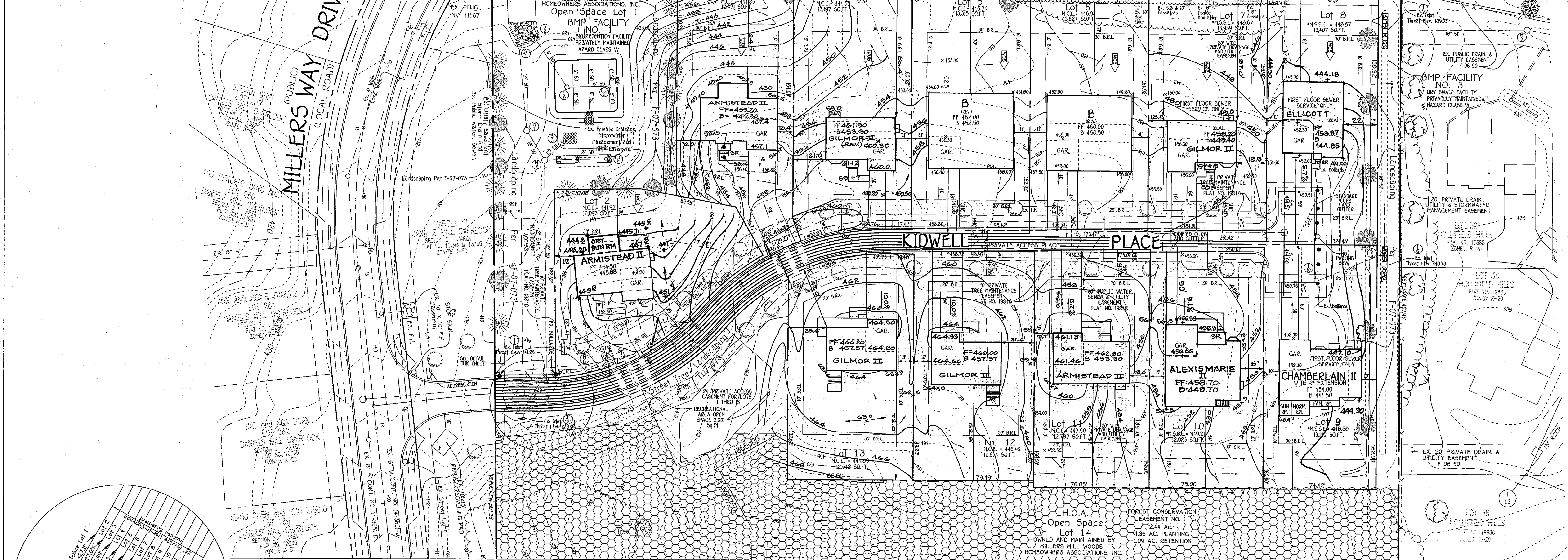
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Signature: *Cindy Powers* Date: 6/3/08
Signature: *Robert Dorsey* Date: 6/2/08
Signature: *Frankie L. Laughlin* Date: 6/2/08

OWNER/BUILDER/DEVELOPER
DORSEY FAMILY HOMES
10717-B BIRMINGHAM WAY
WOODSTOCK, MARYLAND 21163
410-465-7200

PROJECT	SECTION	LOTS NO.			
MILLERS MILL WOODS	N/A	2 THRU 13, 15, & 16			
PLATS	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
19847-19849	12	R-20	17	2	6021
WATER CODE	SEWER CODE				
C-02	7390000				

SITE DEVELOPMENT PLAN
SINGLE FAMILY DETACHED
MILLERS MILL WOODS
LOTS 2 THRU 13, 15, AND LOT 16
ZONED: R-20
TAX MAP NO: 17 PARCEL NO: 44444 GRID NO: 12
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: APRIL, 2008
SHEET 1 OF 6

LOT AREA CHART			
LOT No.	GROSS AREA	PIPESTEM AREA	NET LOT AREA
2	12,093 Sq.Ft.	81 Sq.Ft.	12,012 Sq.Ft.
3	12,419 Sq.Ft.	407 Sq.Ft.	12,012 Sq.Ft.
4	13,197 Sq.Ft.	461 Sq.Ft.	12,736 Sq.Ft.
5	13,315 Sq.Ft.	607 Sq.Ft.	12,708 Sq.Ft.
6	13,627 Sq.Ft.	763 Sq.Ft.	12,864 Sq.Ft.
7	13,939 Sq.Ft.	919 Sq.Ft.	13,020 Sq.Ft.
8	13,407 Sq.Ft.	1076 Sq.Ft.	12,331 Sq.Ft.
9	13,130 Sq.Ft.	1074 Sq.Ft.	12,056 Sq.Ft.
10	12,923 Sq.Ft.	923 Sq.Ft.	12,000 Sq.Ft.
11	12,787 Sq.Ft.	770 Sq.Ft.	12,017 Sq.Ft.
12	12,674 Sq.Ft.	612 Sq.Ft.	12,062 Sq.Ft.
13	12,542 Sq.Ft.	439 Sq.Ft.	12,103 Sq.Ft.
16	28,788 Sq.Ft.	4519 Sq.Ft.	24,269 Sq.Ft.

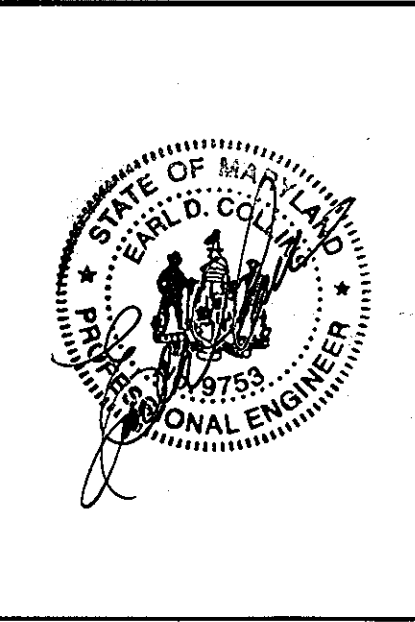


DETAIL
NOT TO SCALE

NOTE: RUNOFF FROM THE REAR OF LOTS 5-8 AND 9-12 SHALL DRAIN INTO THE SWALE AT END OF KIDWELL PLACE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALDWIN NATIONAL FLYE
ELICOTT CITY, MARYLAND 21117
410-461-2000

NO.	REVISION	DATE
11	REV. GRD. & HSES LOTS 4-17 TO REFLECT AS-BUILT	8/20/08
10	REVISE GRADING ON LOTS 10 THRU 13 TO REFLECT AS-BUILT CONDITIONS	4-25-10
9	REV. GRD. LOT 2 TO SHOW EX. CONDITIONS	1-29-10
8	REV. HSE GRD. & D/W ELEV'S LOTS 11, 12, 13	1-5-10
7	REV. GRD. LOT 9 TO SHOW EX. CONDITIONS	11-18-09
6	REV. HSE & GRD. LOT 11 FROM 'A' BOX TO MILLER II	10/29/09
5	REV. GRD. & HSE TYPE LOT 10	8-11-09
4	REV. GRD. LOT 2 TO SHOW AS-BUILT COND.	8-4-09
3	REV. HSE TYPE GRD. LOT 8	5-1-09
2	REV. HSE TYPE GRD. LOT 2	2-5-09
1	REV. HSE TYPE GRD. LOT 4	12-16-08



ENGINEER'S CERTIFICATE
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Signature of Engineer: *Earl D. Collins* Date: 5-19-08

BUILDER/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 any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment approved Training Program for Control of Sediment and Erosion before beginning the project. I also authorize personal on-site inspection by the Howard Soil Conservation District.

Signature of Developer: *Robert Dorsey* Date: 5-20-08

OWNER/BUILDER/DEVELOPER
DORSEY FAMILY HOMES
10717-B BIRMINGHAM WAY
WOODSTOCK, MARYLAND 21163
410-465-7209

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development: *Cindy Hunt* Date: 6/13/08

Chief, Development Engineering Division: *Mark P. Lewis* Date: 6/19/08

Director - Department of Planning and Zoning: *Mark P. Lewis* Date: 6/19/08

PROJECT	SECTION	LOTS NO.
MILLERS MILL WOODS	N/A	2 THRU 13, 15, & 16

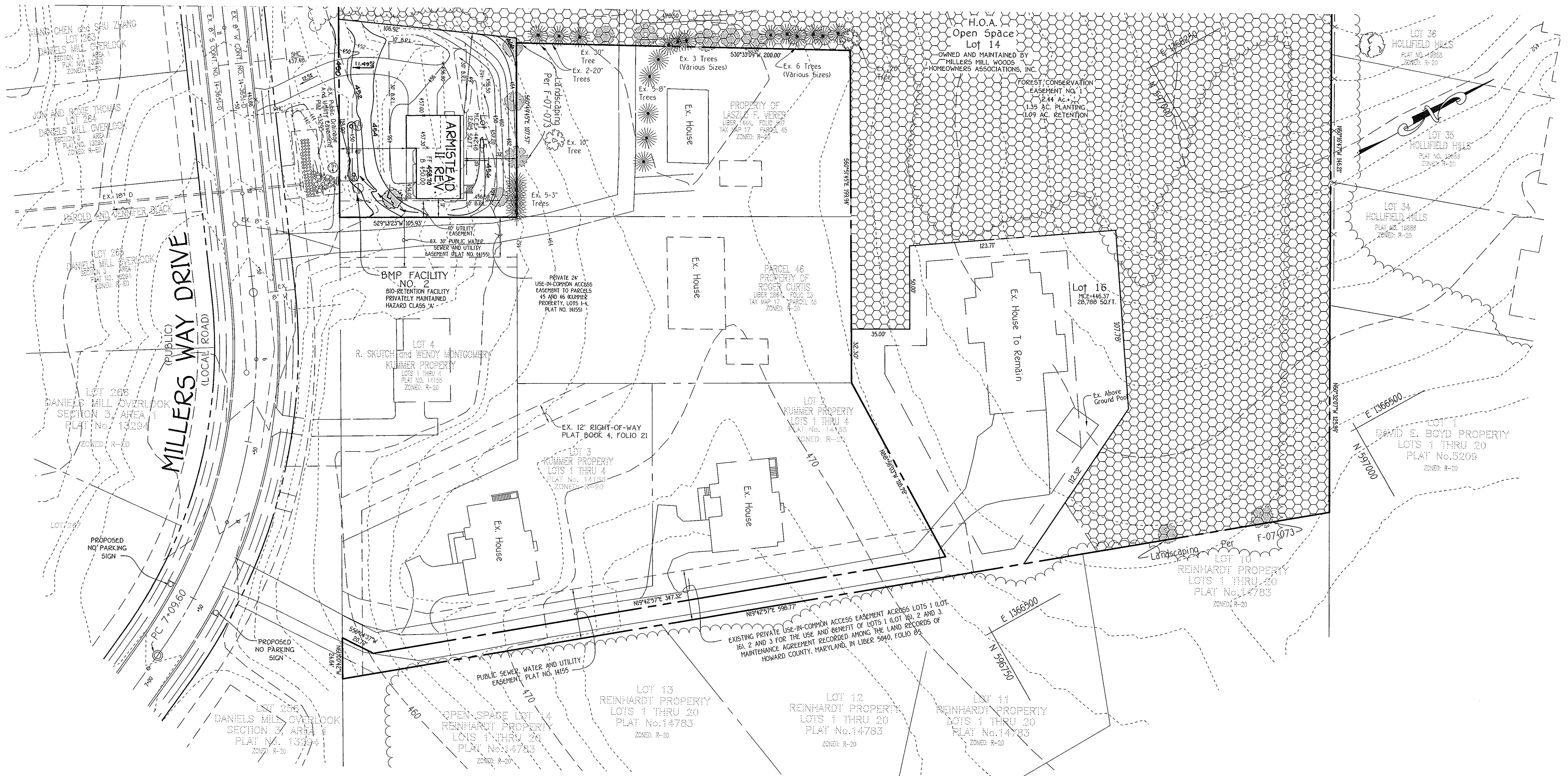
PLATS	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
19847-19849	12	R-20	17	2	6021

WATER CODE	SEWER CODE
C-02	7390000

SITE DEVELOPMENT PLAN

SINGLE FAMILY DETACHED
MILLERS MILL WOODS
LOTS 2 THRU 13, 15, AND LOT 16

ZONED: R-20
TAX MAP NO: 17 PARCEL NO: 44479 GRID NO: 12
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: APRIL, 2008
SHEET 2 OF 6



K:\Drawings\3130737 Millers Mill Woods\Site Development\Plan\3130737 SDP BASE PLAN.dwg, 5/19/2008 11:52:33 AM

<p>FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNIAL SQUARE OFFICE PARK - 3272 BALTIMORE NATIONAL PIKE ELLSWORTH CITY, MARYLAND 21042 4100 461 - 2095</p>	NO.	REVISION	DATE
	1	REVISE FF & GRADING ON LOT 15 TO MATCH AS-BUILT COND.	6/22/09

ENGINEER'S CERTIFICATE

"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature: Date: 5.19.08
Earl D. Collins

BUILDER/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 any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer: Date: 5.20.08
Robert Dorsey, Jr.

OWNER/BUILDER/DEVELOPER

DORSEY FAMILY HOMES
10717-B BIRMINGHAM WAY
WOODSTOCK, MARYLAND 21163
410-465-7200

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development: Date: 6/2/08

Chief, Development Engineering Division: Date: 6/2/08

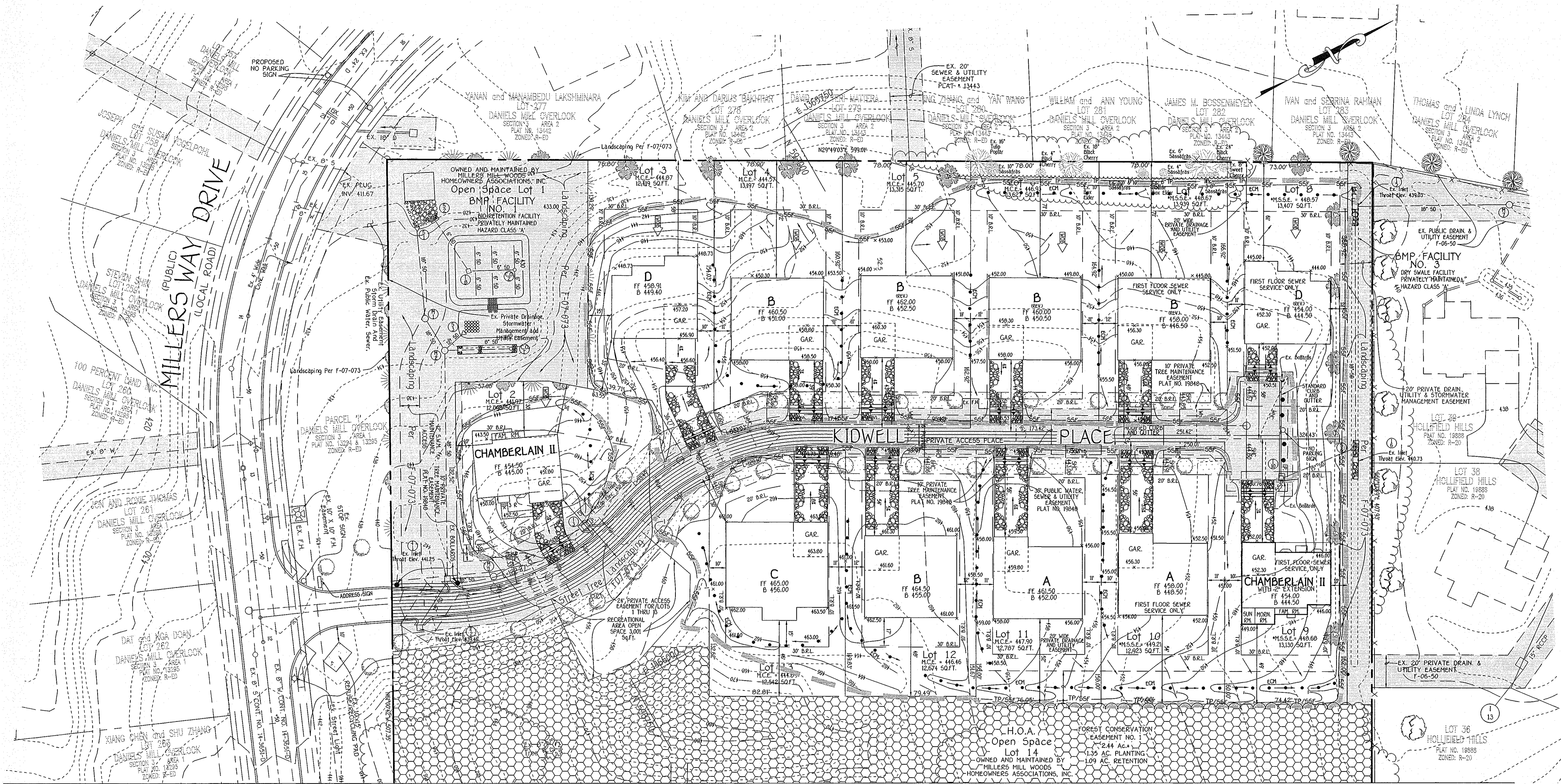
Director - Department of Planning and Zoning: Date: 6/9/08

PROJECT	MILLERS MILL WOODS	SECTION	N/A	LOTS NO.	2 THRU 13, 15, & 16
PLATS	19847-19849	BLOCK NO.	12	ZONE	R-20
TAX/ZONE	17	ELEC. DIST.	2	CENSUS TR.	6021
WATER CODE	C-02	SEWER CODE	7390000		

SITE DEVELOPMENT PLAN

SINGLE FAMILY DETACHED
MILLERS MILL WOODS
LOTS 2 THRU 13, 15, AND LOT 16

ZONED: R-20
TAX MAP NO: 17 PARCEL NO.: 4441 GRID NO.: 12
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: APRIL, 2008
SHEET 3 OF 6



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<p>FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTRAL SQUARE OFFICE PARK - 10725 BALTIMORE NATIONAL PIKE ELLSWORTH CITY, MARYLAND 21042 410P 661-2992</p>	NO.	REVISION	DATE

ENGINEER'S CERTIFICATE
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Signature of Engineer: *Earl D. Collins* Date: 5.19.08
EARL D. COLLINS
 PROFESSIONAL ENGINEER

BUILDER/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 any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District.

Signature of Developer: *Robert Dorsey Jr.* Date: 5.20.08
ROBERT DORSEY JR.

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Signature: *John R. Robertson* Date: 5/29/08
JOHN R. ROBERTSON
 HOWARD SCD

OWNER/BUILDER/DEVELOPER
 DORSEY FAMILY HOMES
 10717-B BIRMINGHAM WAY
 WOODSTOCK, MARYLAND 21163
 410-465-7200

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development: *Candy Kimo* Date: 6/1/08
 Chief, Development Engineering Division: *Mark D. Gault* Date: 6/1/08
 Director - Department of Planning and Zoning: *Mark D. Gault* Date: 6/1/08

PROJECT	SECTION	LOTS NO.
MILLERS MILL WOODS	N/A	2 THRU 13, 15, & 16
PLATS	BLOCK NO.	ZONE
19847-19849	12	R-20
TAX CODE	TAX/ZONE	ELEC. DIST.
C-02	17	2
WATER CODE	SEWER CODE	CENSUS TR.
	7390000	6021

SEDIMENT/EROSION CONTROL PLAN

SINGLE FAMILY DETACHED
MILLERS MILL WOODS
 LOTS 2 THRU 13, 15, AND LOT 16

ZONED: R-20
 TAX MAP NO.: 17 PARCEL NO.: 44711 GRID NO.: 12
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30' DATE: APRIL, 2008
 SHEET 4 OF 6

20.0 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION DEFINITION

Using vegetation as cover for barren soil to protect it from forces that cause erosion.

PURPOSE

Vegetative stabilization specifications are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is more likely to allow infiltration of rainfall, thereby reducing sediment loads and runoff to downstream areas, and improving wildlife habitat and visual resources.

CONDITIONS WHERE PRACTICE APPLIES

This practice shall be used on denuded areas as specified on the plans and may be used on highly erodible or critically eroding areas. This specification is divided into Temporary Seeding, to quickly establish vegetative cover for short duration (up to one year), and Permanent Seeding, for long term vegetative cover. Examples of suitable areas for Temporary Seeding are temporary Soil Stockpiles, cleared areas being left side to construction phases, earth cuts, dikes, and for Permanent Seeding are lawns, dunes, cut and fill slopes and other areas at final grade, former stockpile and staging areas, etc.

EFFECTS ON WATER QUALITY AND QUANTITY

Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration, evaporation, and groundwater recharge. Vegetation, over time, will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth. Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by absorbing these substances present within the root zone. Sediment control devices must remain in place during seeding, seedbed preparation, seeding, mulching and vegetative establishment to prevent large quantities of sediment and associated chemicals and nutrients from washing into surface waters.

SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS

- Site Preparation
 - Install erosion and sediment control structures (either temporary or permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins.
 - Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.
 - Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed areas over 5 acres.
- Soil Amendments (Fertilizer and Lime Specifications)
 - Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analysis.
 - Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Manure may be substituted for fertilizer with prior approval from the inspector. Fertilizers shall be identified by the manufacturer's name, trade name or trademark and warranty to the applicable state fertilizer laws and shall bear the name, trade name or trademark and warranty of the producer.
 - Lime materials shall be ground limestone (hydrated or burnt lime) may be substituted which contains at least 50% total calcium oxide plus magnesium oxide. Limestone shall be ground to such fineness that at least 50% will pass through a 100 mesh sieve and 90-100% will pass through a #20 mesh sieve.
 - Incorporate lime and fertilizer into the top 3-5" of soil by disk or other suitable means.

- Seeded Preparation
 - Seeded preparation shall consist of loosening soil to a depth of 3" to 5" by means of suitable agricultural or construction equipment, such as disk harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened it should not be rolled or dragged smooth, but left in the roughened condition. Sloped areas (greater than 3:1) should be tracked leaving the surface in an irregular condition with ridges running parallel to the contour of the slope.
 - Apply fertilizer and lime as prescribed on the plans.
 - Incapable lime and fertilizer into the top 3-5" of soil by disk or other suitable means.
- Permanent Seeding
 - Minimum soil conditions required for permanent vegetative establishment:
 - Soluble salts shall be less than 500 parts per million (ppm).
 - The soil shall contain between 60 and 12% clay.
 - Less than 10% organic matter, but enough fine grained material (200 mesh plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is for loess or loess-like soils, in which case the soil should be amended with topsoil to a depth of 3-5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from sliding down a slope.
 - Apply soil amendments as per soil test or as included on the plans.
 - Soil must contain sufficient pore space to permit adequate root penetration.
 - If these conditions cannot be met by soils on site, adding topsoil is required in accordance with Section 21 Standard and Specification for Topsoil.
 - Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then scarified or otherwise loosened to a depth of 3-5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from sliding down a slope.
 - Apply soil amendments as per soil test or as included on the plans.
 - Soil amendments into the top 3-5" of soil by disk or other suitable means. Lawn areas should be raked to smooth the surface, remove large objects like stones and branches, and ready the area for seed and application. Where site conditions will not permit normal seeded preparation, loose surface soil by dragging with a heavy chain or other equipment to roughen the surface. Steep slopes (steeper than 3:1) should be tracked by a dozer leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. The top 1-3" of soil should be loose and friable. Seeded loosening may not be necessary on newly disturbed areas.

- Seed Specifications
 - All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to testing by a recognized seed laboratory. All seed shall have been tested within the 6 months immediately preceding the date of sowing such material on this job.
 - Seed lots shall be made available to the inspector to verify type and rate of seed used.
 - Incubation - The incubator for testing warm season seed in the seed mixtures shall be a pure culture of nitrogen-fixing bacteria prepared specifically for the species. Incubators shall not be used after the date indicated on the container. Add fresh incubant as directed on package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep incubant as cool as possible until used. Temporary seed use is not recommended and the incubant less effective.
- Methods of Seeding
 - Hydroseeding - Apply seed uniformly with hydroseeder (includes seed and fertilizer), broadcast or drop seeded.
 - If fertilizer is being applied at the time of seeding, the application rates and amounts will not exceed the following: 100 lbs./acre total of soluble nitrogen (20% nitrogenous); 200 lbs./acre total of phosphate (20% phosphorous); 200 lbs./acre total of lime.
 - Use only good agricultural limestone, up to 3 tons per acre may be applied by hydroseeding. Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.
 - Seed and fertilizer shall be mixed on site and seeding shall be done immediately and without interruption.
 - Dry Seeding - This includes use of conventional drop or broadcast spreaders.
 - Seed spread dry shall be incorporated into the soil at the rates prescribed on the plans. Temporary or Permanent Seeding Summaries or Tables 265 or 266. The seeded area shall then be rolled with a weighted roller to provide good seed to soil contact.
 - Where practical, seed should be applied in two directions perpendicular to each other.
 - Apply half the seeding rate in each direction.
 - Drill or Cutter Seeding - Mechanized seeders that apply and cover seed with soil.
 - Cutting seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. The seed must be firm after planting.
 - Where practical, seed should be applied in two directions perpendicular to each other.
 - Apply half the seeding rate in each direction.
- Mulch Specifications (in order of preference)
 - Straw shall consist of thoroughly threshed wheat, rye or oat straw, reasonable bright in color, and shall not be musty, moldy, caked, decayed, or excessively dusty and shall be free of noxious weed seeds as specified in the Maryland Law.
 - Wood Cellulose Fiber Mulch (WCFF)
 - WCFF shall consist of specially prepared wood cellulose processed into a uniform fibrous physical state.
 - WCFF shall be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry.
 - WCFF, including dye, shall contain no germination or growth inhibiting factors.
 - WCFF materials shall be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material shall form a blotter-like growth cover, on application, having moisture absorption and percolation properties and shall cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.
 - WCFF must conform to the following physical requirements: fiber length to approximately 10 mm, diameter approximately 1 mm, pH range of 4.0 to 8.5, ash content of 15% maximum and water holding capacity of 50% minimum.
 - Only straw mulch should be used in areas where one species of grass is desired.

- Incremental Stabilization - Cut Slopes
 - All cut slopes shall be dressed, prepared, seeded and mulched as the work progresses. Slopes shall be excavated and stabilized in incremental cuts not to exceed 15'.
 - Construction sequence (refer to Figure 3 below):
 - Excavate and stabilize all temporary swales, side ditches, or berms that will be used to convey runoff from the excavation.
 - Perform Phase 1 excavation, dress, and stabilize.
 - Perform Phase 2 excavation, dress and stabilize. Overseed Phase 1 areas as necessary.
 - Perform final phase excavation, dress and stabilize. Overseed previously seeded areas as necessary.

- Securing Straw Mulch (Mud Anchoring) - Mulch anchoring shall be performed immediately following mulch application to minimize loss by wind or water. This may be done by one of the following methods listed by preference, depending upon size of area and erosion hazard:
 - A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of two (2) inches. This practice is most effective on large areas, but is limited to filter slopes where equipment can operate safely. If used on sloping areas this practice should be used on the contour if possible.
 - Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be applied at a rate of 100 lbs. per 1000 sq. ft. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
 - Application of liquid binders should be heavier at the edges where wind catches mulch, such as in valleys and crest of banks. The remainder of area should be applied uniform after binder application. Synthetic binders - such as Acrylic, U.R. Agro-Tack, DCA-70 Polymer, Terra Tack, Terra Tack Ad or other approved equal may be used at rates recommended by the manufacturer to anchor mulch.
 - Lightweight plastic netting may be stapled over the mulch according to manufacturer's recommendations. Netting is usually available in rolls 4' to 15' feet wide and 300 to 3,000 feet long.

- Incremental Stabilization - Cut Slopes
 - All cut slopes shall be dressed, prepared, seeded and mulched as the work progresses. Slopes shall be excavated and stabilized in incremental cuts not to exceed 15'.
 - Construction sequence (refer to Figure 3 below):
 - Excavate and stabilize all temporary swales, side ditches, or berms that will be used to convey runoff from the excavation.
 - Perform Phase 1 excavation, dress, and stabilize.
 - Perform Phase 2 excavation, dress and stabilize. Overseed Phase 1 areas as necessary.
 - Perform final phase excavation, dress and stabilize. Overseed previously seeded areas as necessary.

- Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil if required and permanent seed and mulch. Any interruptions in the operation or completion of the seeding season will necessitate the application of temporary stabilization.
 - Incremental Stabilization of Embankments - Fill Slopes
 - Embankments shall be constructed in lifts as prescribed on the plans.
 - Slopes shall be stabilized immediately when the vertical height of the vertical lifts reaches 15' or when the grading operation ceases as prescribed in the plans.
 - At the end of each day, temporary berms and pipe slope drains should be constructed along the top edge of the embankment to intercept surface runoff and convey it down the slope in a non-erosive manner to a sediment trapping device.
 - Construction sequence (refer to Figure 3 below):
 - Excavate and stabilize all temporary swales, side ditches, or berms that will be used to divert runoff around the fill. Construct slope sill fence on low side of fill as shown in Figure 5, unless other methods shown on the plans stabilize this area.
 - Place Phase 1 embankment, dress and stabilize.
 - Place Phase 2 embankment, dress and stabilize.
 - Final phase embankment, dress and stabilize. Overseed previously seeded areas as necessary.

- Once the placement of fill has begun the operation should be continuous from grubbing through the completion of and placement of topsoil if required and permanent seed and mulch. Any interruptions in the operation or completion of the seeding season will necessitate the application of temporary stabilization.

SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEWAGE DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (31-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND RESOURCES TARGETING, DICES, PERMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1. BY 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 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 (SEC. 50), S20 (SEC. 54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL DISTURBED AREAS 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 OF SITE	7.77 ACRES
AREA TO BE ROOFED OR PAVED	3.05 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.99 ACRES
TOTAL CUT	2.08 ACRES
TOTAL FILL	4.94 CU YDS.
TOTAL FILL	3.007 CU YDS.

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

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seeded Preparation - Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

- Soil Amendments - In lieu of soil test recommendations, use one of the following schedules:
- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq. ft.) and 600 lbs. per acre 10-10-10 fertilizer (4 lbs. per 1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs. per 1000 sq. ft.).
 - Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq. ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs. per 1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil.

Seeding - For the period March 1 thru April 30 and from August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue and 2 lbs. per acre (0.05 lbs. per 1000 sq. ft.) of weeping lovegrass. During the period October 16 thru February 28, protect site by one of the following options:

- 1) 2 tons per acre of well-anchored straw and seed as soon as possible in the spring.
- 2) Use sod.
- 3) Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.

Mulching - Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq. ft.) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq. ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq. ft.) for anchoring.

Maintenance - Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.

Seeded Preparation - Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

- Soil Amendments - Apply 600 lbs. per acre 10-10-10 fertilizer (4 lbs. per 1000 sq. ft.).
- Seeding - For periods March 1 thru April 30 and from August 1 thru October 15, seed with 2-1/2 bushels per acre of annual rye (3.2 lbs. per 1000 sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.07 lbs. per 1000 sq. ft.). For the period November 15 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.

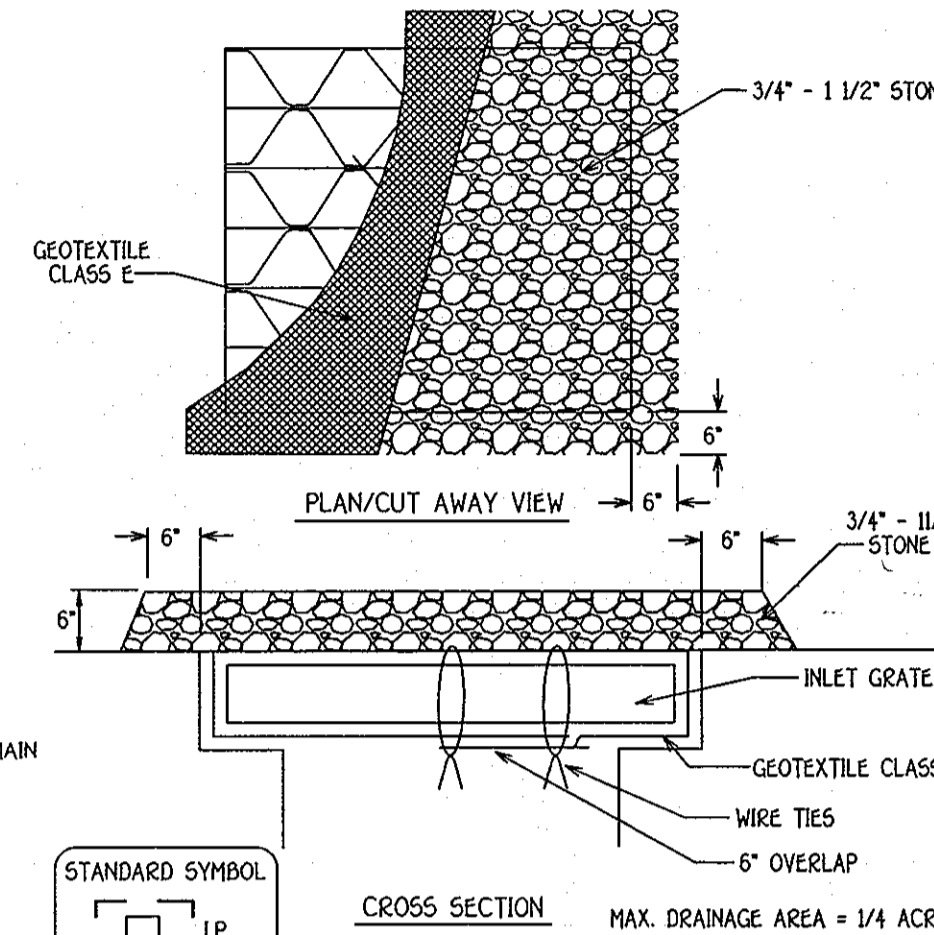
Mulching - Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq. ft.) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq. ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq. ft.) for anchoring.

Maintenance - Inspect all seeded areas and make needed repairs, replacements and reseedings.

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT 7 DAYS
- INSTALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN 7 DAYS
- CLEAR AND GRUB TO LIMITS OF DISTURBANCE 4 DAYS
- INSTALL TEMPORARY SEEDING 2 DAYS
- CONSTRUCT BUILDINGS 60 DAYS
- FINE GRADE SITE AND INSTALL PERMANENT SEEDING AND LANDSCAPE 14 DAYS *
- REMOVE SEDIMENT CONTROL DEVICES AS UPLAND AREAS ARE STABILIZED AND PERMITSION IS GRANTED BY E/S CONTROL INSPECTOR. 7 DAYS

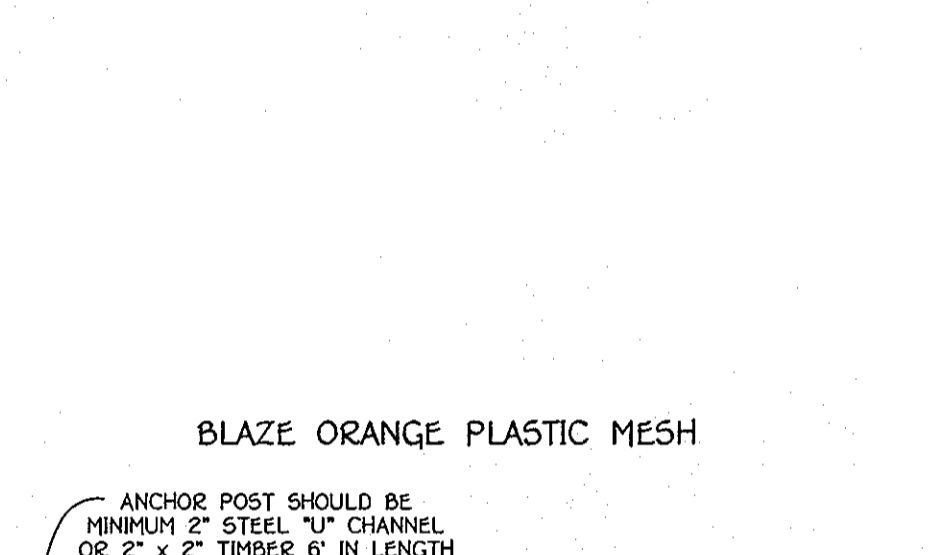
* INSTALL SWM DEVICES. SEE F-07-073 FOR DETAILS.



- Construction Specifications
1. Lay grid and wrap with Geotextile Class E to completely cover all openings. Then set grate back in place.
 2. Place 3/4" x 1/2" stone, 4"-6" thick on the grate to secure the fabric and provide additional filtration.

AT GRADE INLET PROTECTION

NOT TO SCALE



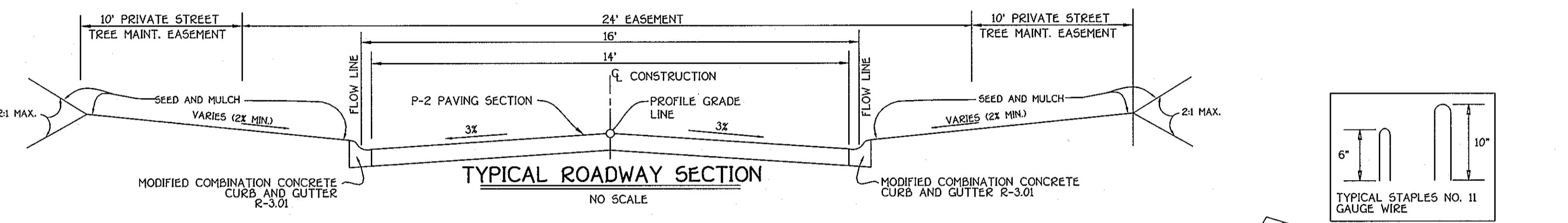
- Construction Specifications
1. Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6" fence shall be used, substituting 42" fabric and 6" length posts.
 2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.
 3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
 4. Filter cloth shall be embedded a minimum of 6" into the ground.
 5. When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
 6. Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.
 7. Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

Slope	Slope Steepness	Slope Length (maximum)	Silt Fence Length (maximum)
0 - 10%	0 - 10%	Unlimited	Unlimited
10 - 20%	10% - 5%	200 feet	1,500 feet
20 - 33%	5% - 3%	100 feet	1,000 feet
33 - 50%	3% - 2%	100 feet	500 feet
50% +	2% +	50 feet	250 feet

- NOTES:
1. FOREST PROTECTION DEVICE ONLY.
 2. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
 3. BOUNDARIES OF RETENTION AREAS SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.
 4. ROOT DAMAGE SHOULD BE AVOIDED.
 5. PROTECTIVE SIGNAGE MAY ALSO BE USED.
 6. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

TREE PROTECTION DETAIL

NOT TO SCALE



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 7. Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

Slope	Slope Steepness	Slope Length (maximum)	Silt Fence Length (maximum)
0 - 10%	0 - 10%	Unlimited	Unlimited
10 - 20%	10% - 5%	200 feet	1,500 feet
20 - 33%	5% - 3%	100 feet	1,000 feet
33 - 50%	3% - 2%	100 feet	500 feet
50% +	2% +	50 feet	250 feet

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

SUPER SILT FENCE

NOT TO SCALE

EROSION CONTROL MATTING

NOT TO SCALE

SUPER SILT FENCE, TREE PROTECTION FENCE

NOT TO SCALE

TREE PROTECTION DETAIL

NOT TO SCALE

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE BUILDING - 10272 BALTIMORE NATIONAL PIKE
 ELKTON, CITY, MARYLAND 21922
 410-361-2355

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 No. 87553

NO. REVISION DATE

ENGINEER'S CERTIFICATE

"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer: *Carl D. Collins* Date: 5.20.08
 CARL D. COLLINS

BUILDER/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 any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer: *Robert Dorsey* Date: 5.20.08
 ROBERT DORSEY

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Signature of Owner/Builder/Developer: *John R. Platon* Date: 5/29/08
 JOHN R. PLATON

OWNER/BUILDER/DEVELOPER
 DORSEY FAMILY HOMES
 10717-B BIRMINGHAM WAY
 WOODSTOCK, MARYLAND 21163
 410-465-7200

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Planning & Land Development: *Carole Shuster* Date: 6/3/08
 Chief, Development Engineering Division: *Michael D. ...* Date: 6/2/08
 Director - Department of Planning and Zoning: *...* Date: 6/2/08

PROJECT	SECTION	LOTS NO.
MILLERS MILL WOODS	N/A	2 THRU 13, 15, & 16

PLATS	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
19847-19849	12	R-20	17	2	6021

WATER CODE: C-02 SEWER CODE: 7390000

SEDIMENT/EROSION NOTES AND DETAILS

SINGLE FAMILY DETACHED
 MILLERS MILL WOODS
 LOTS 2 THRU 13, 15, AND LOT 16

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