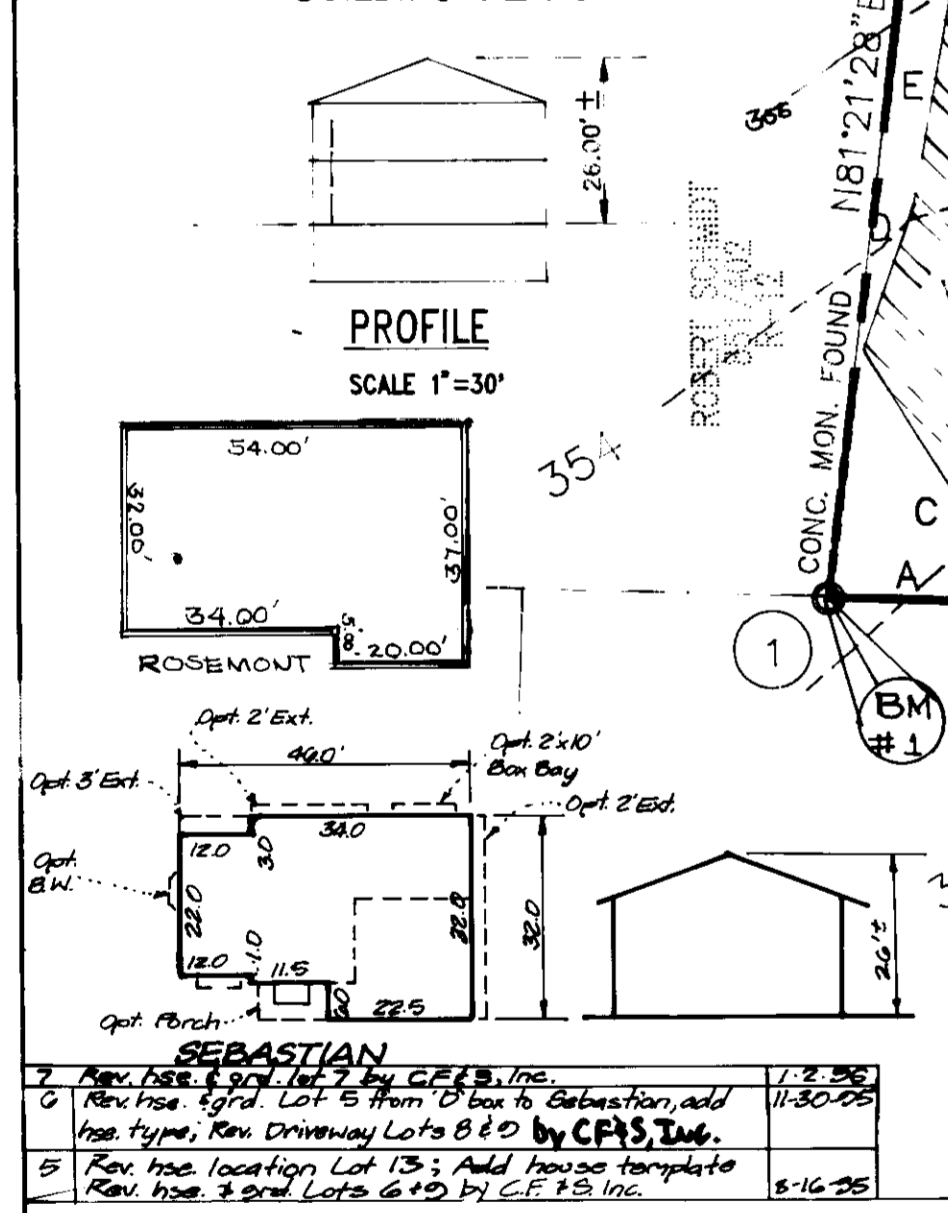
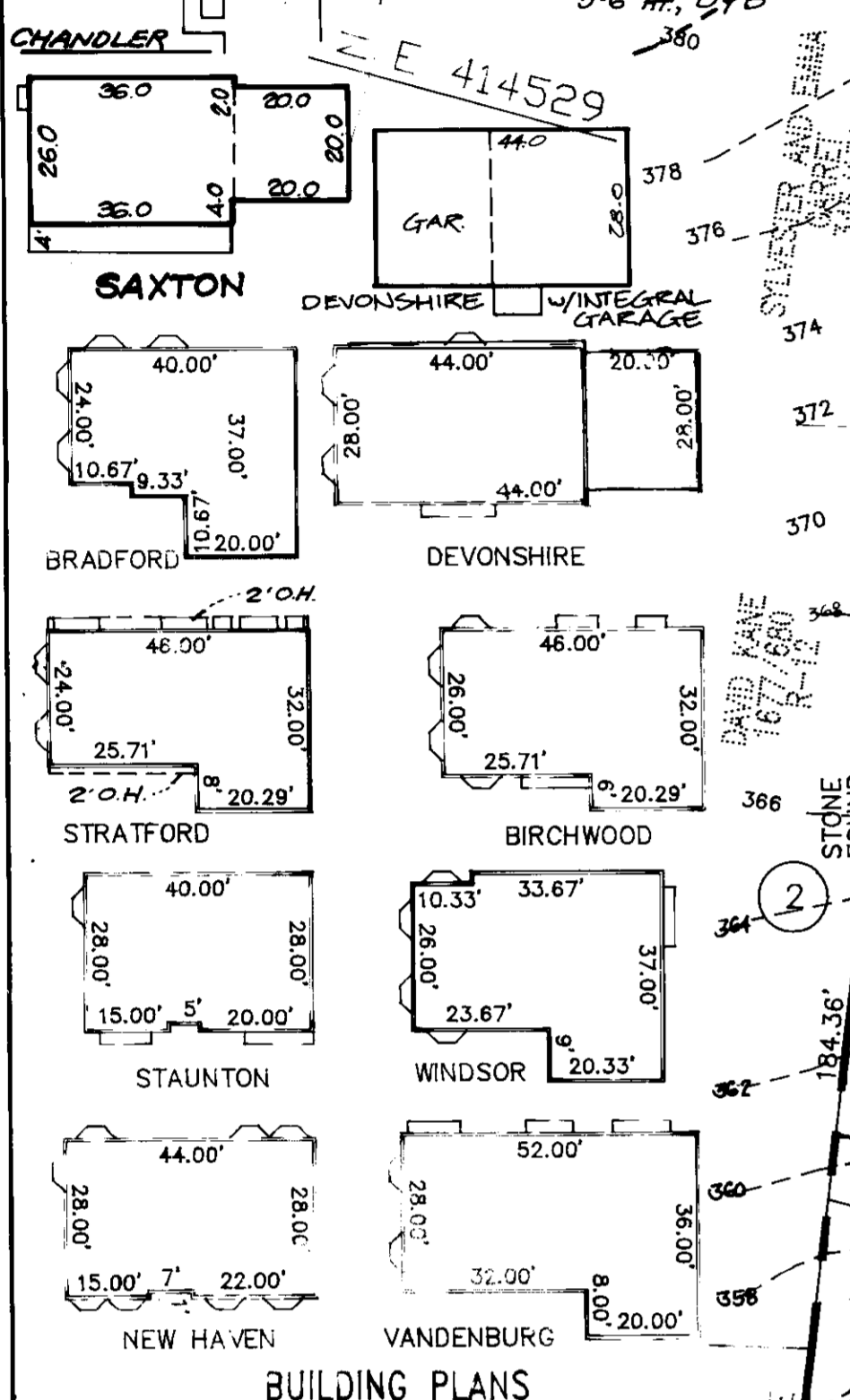
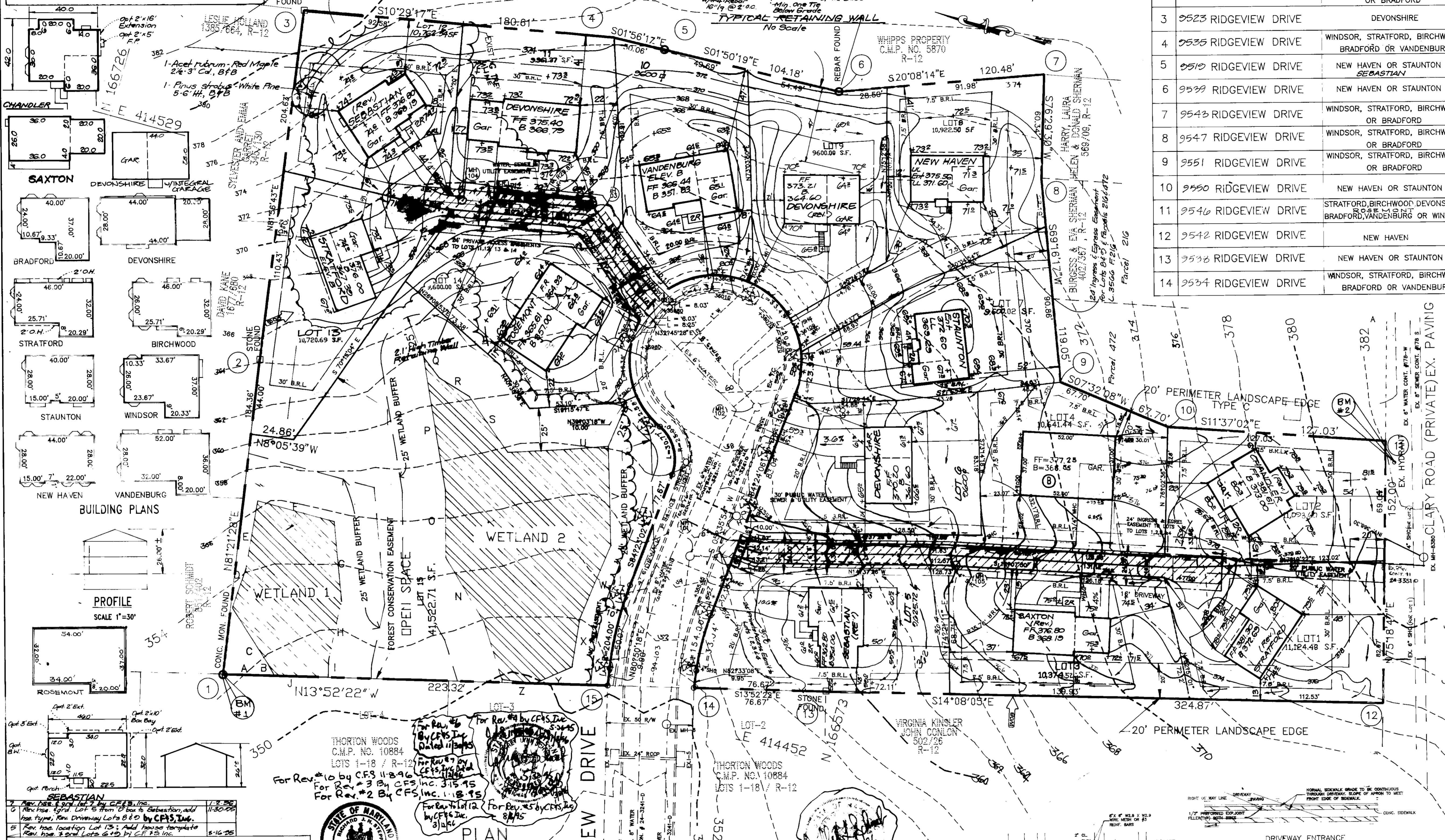


SHEET NO.	TITLE
1	SITE DEVELOPMENT PLAN
2	LANDSCAPING PLAN
3	SEDIMENT CONTROL PLAN
4	SEDIMENT CONTROL NOTES



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

*Parshie S. McLaughlin* 12/1/94  
PLANNING DIRECTOR DATE

*Chieff* 12/1/94  
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*William M. Jernigan* 11/30/94  
DIRECTOR DATE

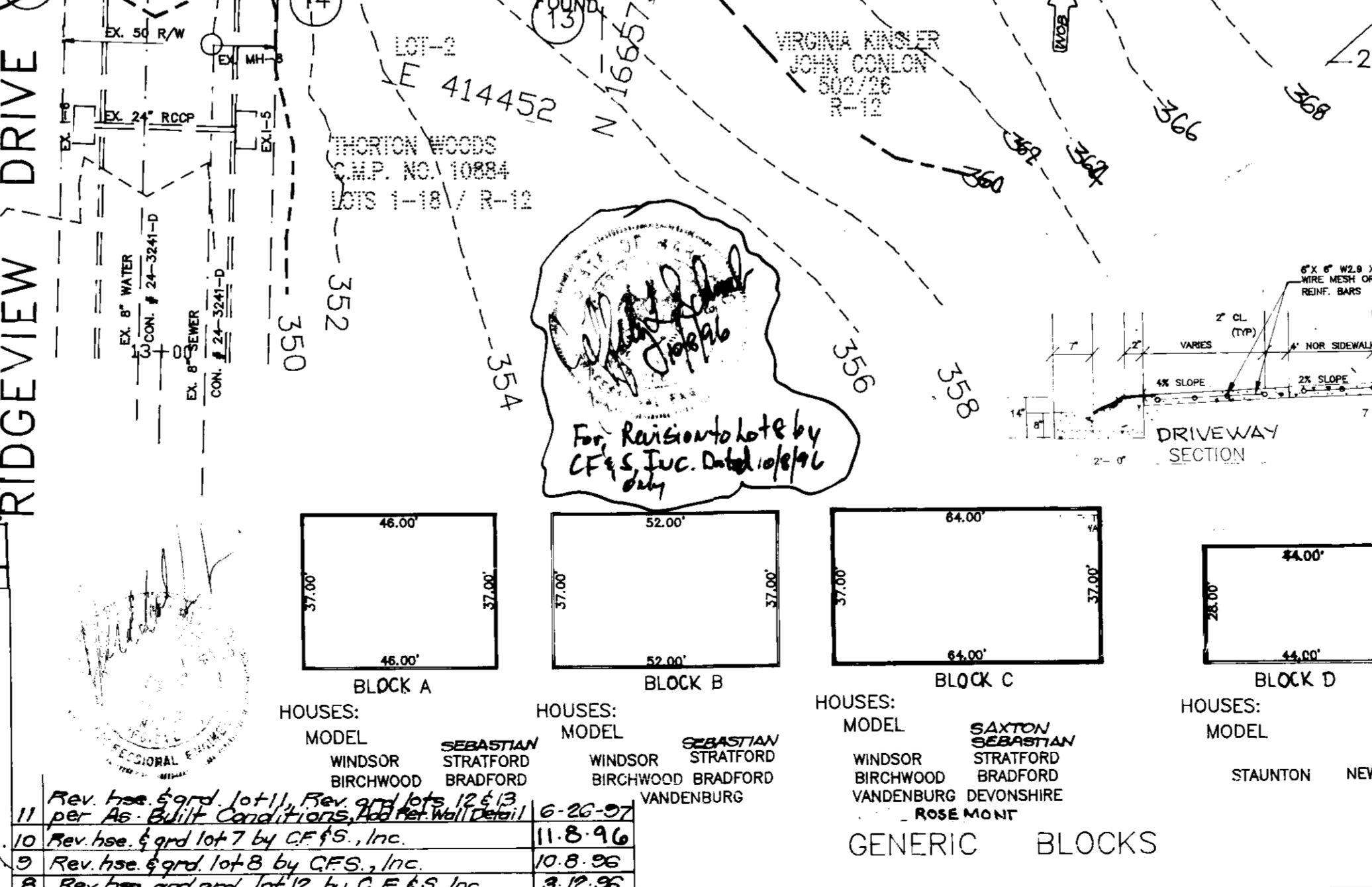
*C. E. Ralston, Jr.* 11/29/94  
CHIEF, BUREAU OF ENGINEERING DATE

THORNTON WOODS C.M.P. NO. 10884 LOTS 1-18 R-12

For Rev #10 by CFS Inc. 5-26-95  
For Rev #9 by CFS Inc. 3-15-95  
For Rev #8 by CFS Inc. 1-18-95  
For Rev #7 by CFS Inc. 1-18-95  
For Rev #6 by CFS Inc. 1-18-95  
For Rev #5 by CFS Inc. 1-18-95  
For Rev #4 by CFS Inc. 1-18-95  
For Rev #3 by CFS Inc. 1-18-95  
For Rev #2 by CFS Inc. 1-18-95  
For Rev #1 by CFS Inc. 1-18-95

STATE OF MARYLAND  
NOTARY PUBLIC  
J. J. [Signature]

**Virginia engineering inc.**  
CONSULTING ENGINEERS  
8307 MAIN STREET, HISTORIC ELICOTT CITY, MD.  
410-465-0400

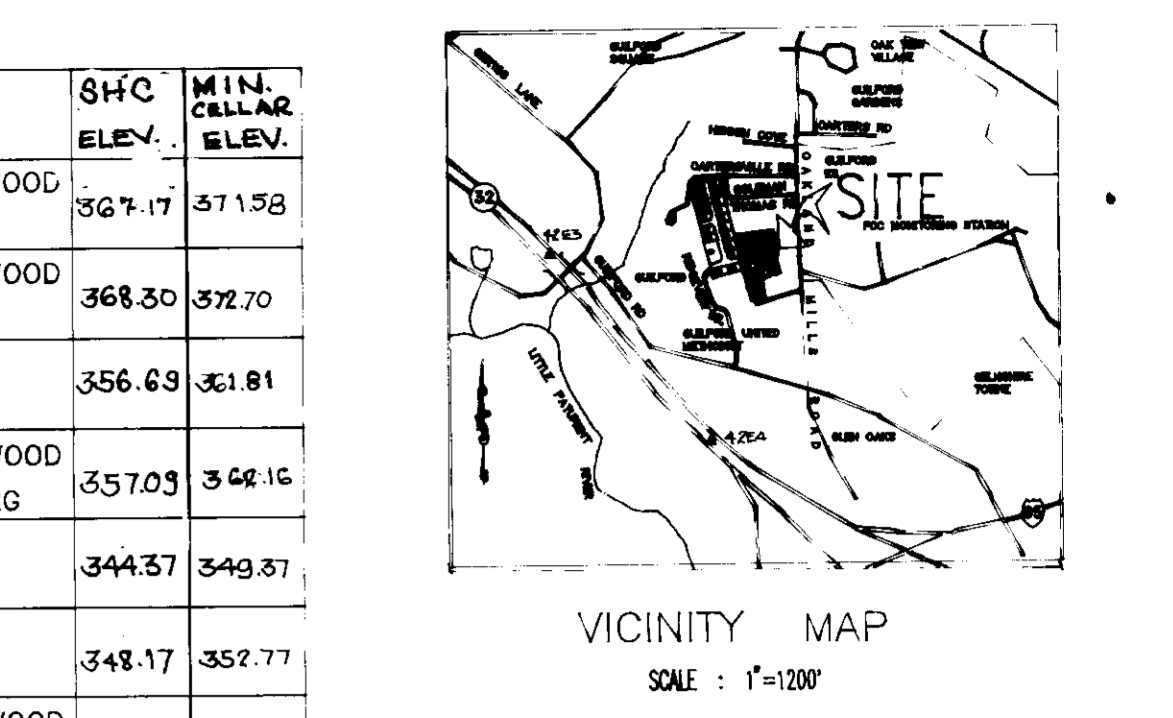


LOT NO.	ADDRESS	HOUSE TYPE	SFC	MIN. CELLAR ELEV.
1	9527 RIDGEVIEW DRIVE	WINDSOR, STRATFORD, BIRCHWOOD OR BRADFORD	367.17	371.58
2	9531 RIDGEVIEW DRIVE	WINDSOR, STRATFORD, BIRCHWOOD OR BRADFORD	368.30	372.70
3	9523 RIDGEVIEW DRIVE	DEVONSHIRE	356.63	361.81
4	9535 RIDGEVIEW DRIVE	WINDSOR, STRATFORD, BIRCHWOOD BRADFORD OR VANDENBURG	357.03	364.16
5	9510 RIDGEVIEW DRIVE	NEW HAVEN OR STAUNTON SEBASTIAN	344.57	349.57
6	9539 RIDGEVIEW DRIVE	NEW HAVEN OR STAUNTON	348.17	352.77
7	9543 RIDGEVIEW DRIVE	WINDSOR, STRATFORD, BIRCHWOOD OR BRADFORD	349.92	355.17
8	9547 RIDGEVIEW DRIVE	WINDSOR, STRATFORD, BIRCHWOOD OR BRADFORD	351.27	356.41
9	9551 RIDGEVIEW DRIVE	WINDSOR, STRATFORD, BIRCHWOOD OR BRADFORD	351.47	355.57
10	9550 RIDGEVIEW DRIVE	NEW HAVEN OR STAUNTON	352.67	357.83
11	9546 RIDGEVIEW DRIVE	STRATFORD, BIRCHWOOD DEVONSHIRE, BRADFORD, VANDENBURG OR WINDSOR	356.29	360.79
12	9542 RIDGEVIEW DRIVE	NEW HAVEN	360.87	365.47
13	9538 RIDGEVIEW DRIVE	NEW HAVEN OR STAUNTON	361.03	366.13
14	9534 RIDGEVIEW DRIVE	WINDSOR, STRATFORD, BIRCHWOOD BRADFORD OR VANDENBURG	352.65	357.00

LOT NO.	GROSS AREA	PIPE STEM	100 YEAR FLOOD PLAIN	25% SLOPE	REMAINING AREA	MINIMUM LOT SIZE
1	11,124.57	1,508.13	0	0	9,616.44	9,600.00
2	11,105.02	1,492.67	0	0	9,612.35	9,600.00
3	10,375.13	765.08	0	0	9,610.07	9,600.00
4	11,315.73	757.15	0	0	10,558.58	9,600.00
8	10,882.82	1,262.82	0	0	9,600.00	9,600.00
11	9,961.37	361.32	0	0	9,600.05	9,600.00
12	10,762.54	1,162.54	0	0	9,600.00	9,600.00
13	10,720.89	1,120.89	0	0	9,600.00	9,600.00

- GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
  - THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF CONSTRUCTION INSPECTION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
  - THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
  - PROJECT BACKGROUND:  
LOCATION: GUILFORD, TAX MAP 42, PARCEL 42 & 373  
ZONING: R-12  
SECTION/AREA: N/A  
SITE AREA: 3281 AC.  
DATE FINAL PLAN RECORDED: 11/23/94  
DPZ REFERENCE #S-94-29, APPROVED FEB. 4, 1994  
#S-94-10, APPROVED MAR. 23, 1994  
#S-94-1013, APPROVED JAN. 12, 1994  
#P-93-06, APPROVED FEB. 2, 1994
  - TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
  - ALL PLAN DIMENSIONS ARE TO BE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
  - TOPOGRAPHY SHOWN IS BASED ON A FIELD RUN SURVEY PREPARED BY JOHN MELLEMA, INC. DATED OCTOBER 1993.
  - HORIZONTAL AND VERTICAL DATUMS BASED ON MARYLAND STATE COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY CONTROL STA. 42E3 & 42E4(NAD83).
  - WATER & SEWER IS PUBLIC.  
WATER CONTRACT NO.: 24-3351-D  
SEWER CONTRACT NO.: 24-3351-D
  - THERE IS NO FLOODPLAIN ON SITE.
  - STORMWATER MANAGEMENT FOR WATER QUANTITY / WATER QUALITY IS PROVIDED AT THORNTON WOODS, P-93-58.
  - WETLANDS SHOWN HEREON ARE BASED ON A WETLANDS ANALYSIS PREPARED BY ECO-SCIENCE PROFESSIONALS, INC., ON FEB. 11, 1994 AND FIELD LOCATED BY JOHN MELLEMA, INC.
  - STORMWATER MANAGEMENT FACILITY WILL BE COUNTY OWNED AND MAINTAINED.
  - EXISTING UTILITIES WERE LOCATED BY COUNTY CONTRACT DRAWINGS AND SURVEY REFERENCED ABOVE.
  - ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
  - MAINTENANCE AGREEMENT FOR COMMON DRIVEWAY EASEMENT FOR LOTS 1 THRU 14 WAS RECORDED ON 08-15-94 IN LIBER 2341 FOLIO 89.
- BENCH MARKS: 1. BM#1 - TOP OF CONC. MONUMENT EL. 353.16  
2. BM#2 - TOPMOST BOLT OF F.H. EL. 364.84

SUBDIVISION NAME		SECT./AREA	LOT NO.
RUPPERT WOODS			1 - 14
PLAY NO.	BLOCK NO.	ZONE	TAX-ZONE
11457	42	R-12	6TH 6067.05
WATER CODE	E-4	SEWER CODE	5 200 400
DESIGNED	JNC	SCALE 1"=30'	
DRAWN	JER	SITE DEVELOPMENT PLAN	
CHECKED	MLL	RUPPERT WOODS, LOTS 1 - 14	
DATF	OWNER	RYAN HOMES, BALTIMORE WEST 1829 REISTERSTOWN RD., SUITE 220 BALTIMORE, MARYLAND 21208	FILE

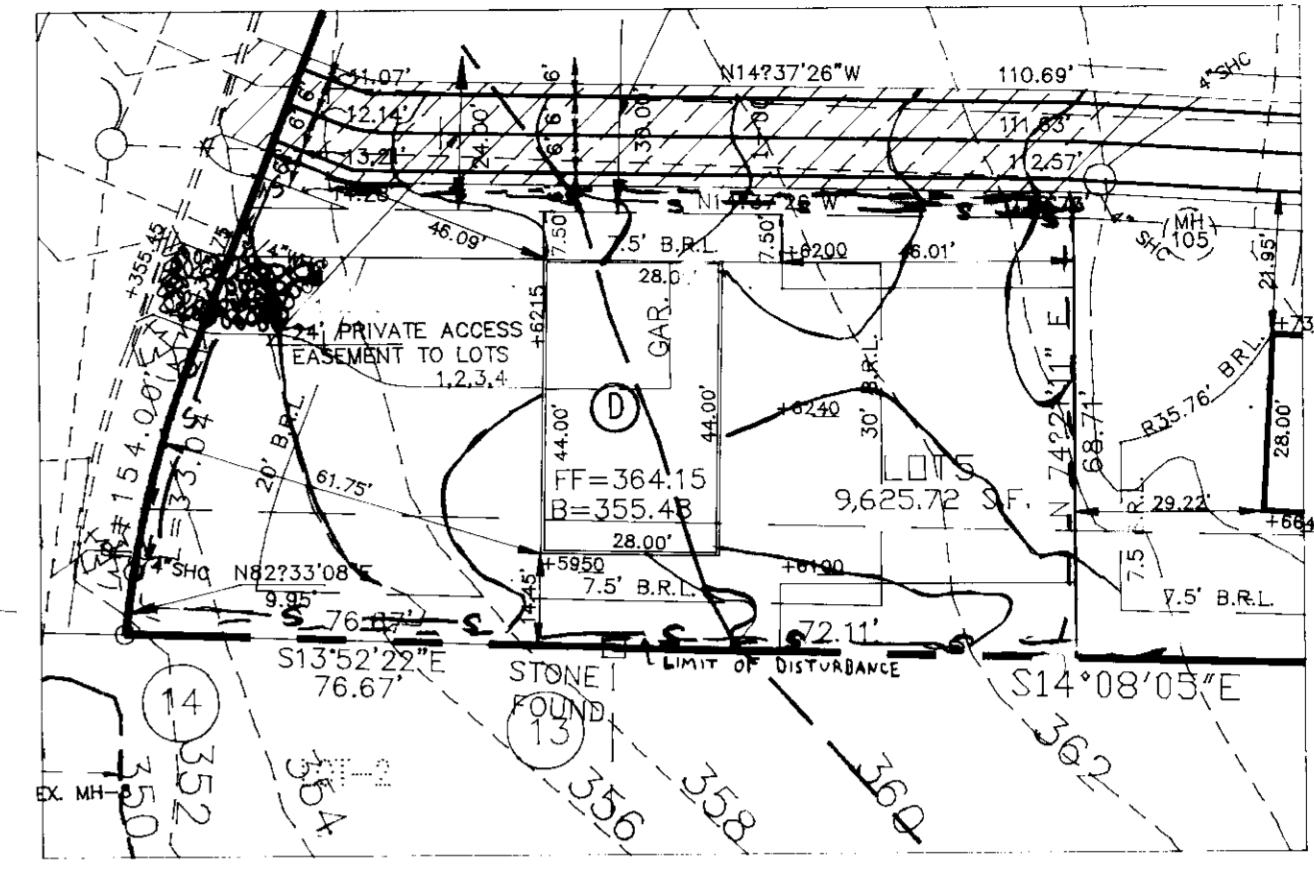
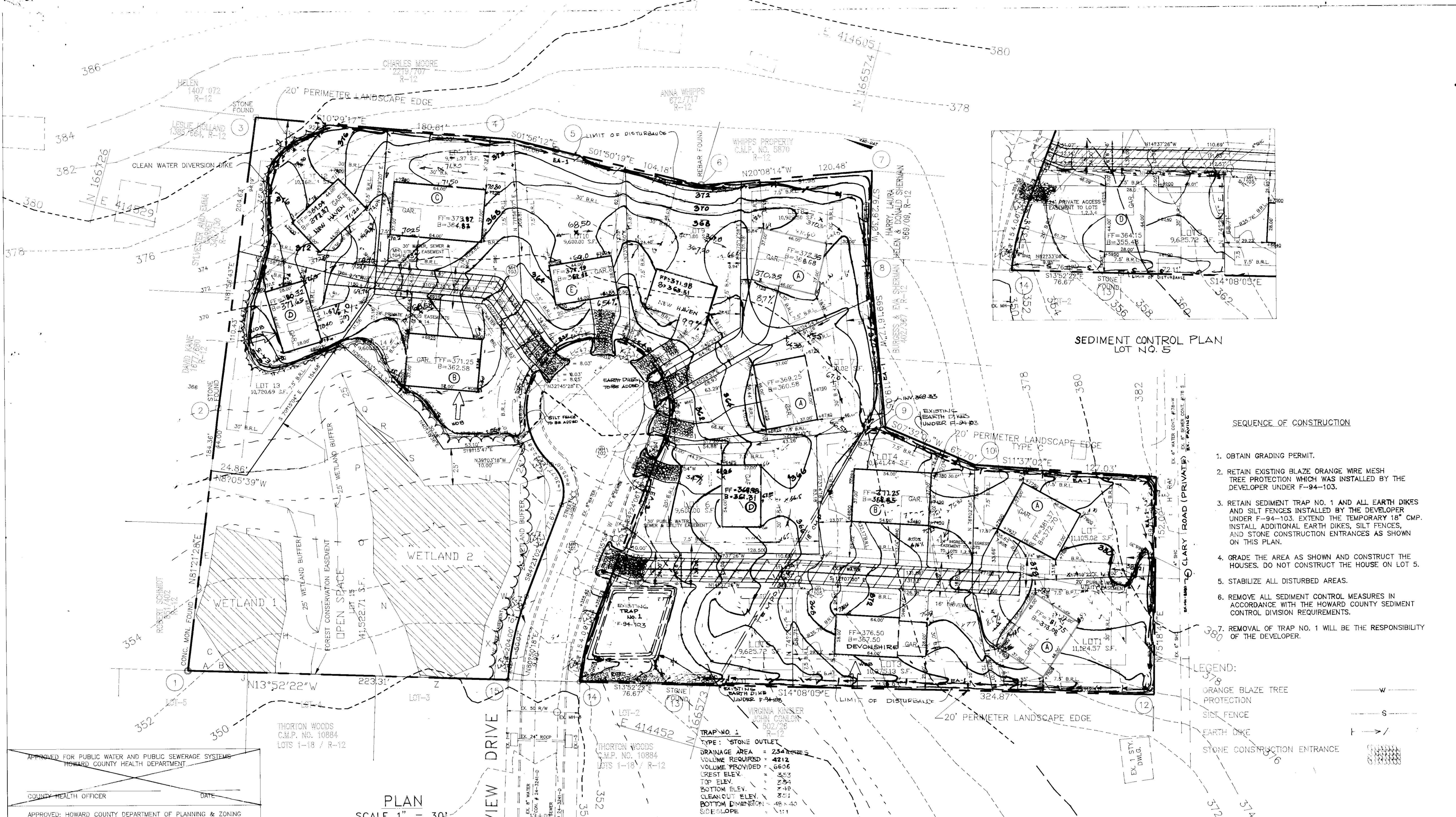


SDP 95-19









SEDIMENT CONTROL PLAN  
LOT NO. 5

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT.
2. RETAIN EXISTING BLAZE ORANGE WIRE MESH TREE PROTECTION WHICH WAS INSTALLED BY THE DEVELOPER UNDER F-94-103.
3. RETAIN SEDIMENT TRAP NO. 1 AND ALL EARTH DIKES AND SILT FENCES INSTALLED BY THE DEVELOPER UNDER F-94-103. EXTEND THE TEMPORARY 18" CMP. INSTALL ADDITIONAL EARTH DIKES, SILT FENCES, AND STONE CONSTRUCTION ENTRANCES AS SHOWN ON THIS PLAN.
4. GRADE THE AREA AS SHOWN AND CONSTRUCT THE HOUSES. DO NOT CONSTRUCT THE HOUSE ON LOT 5.
5. STABILIZE ALL DISTURBED AREAS.
6. REMOVE ALL SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE HOWARD COUNTY SEDIMENT CONTROL DIVISION REQUIREMENTS.
7. REMOVAL OF TRAP NO. 1 WILL BE THE RESPONSIBILITY OF THE DEVELOPER.

- LEGEND:
- ORANGE BLAZE TREE PROTECTION
  - SILT FENCE
  - EARTH DIKE
  - STONE CONSTRUCTION ENTRANCE

PLAN  
SCALE 1" = 30'

TRAP NO. 1  
TYPE: STONE OUTLET  
DRAINAGE AREA = 234 S.F.  
VOLUME REQUIRED = 4212  
VOLUME PROVIDED = 6606  
CREST ELEV. = 353  
TOP ELEV. = 354  
BOTTOM ELEV. = 349  
CLEANOUT ELEV. = 351  
BOTTOM DIMENSION = 48" x 40"  
SLOPE = 1:1

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

*David S. Mangle* 12/4/97  
PLANNING DIRECTOR DATE

*Jim Sturmy* 12/1/94  
CHIEF, DIVISION OF LAND DEVELOPMENT & RESEARCH DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*Alan M. Payne* 11/30/94  
DIRECTOR DATE

*C.E. R. [Signature]* 11/29/94  
CHIEF, BUREAU OF ENGINEERING DATE

**Woria Engineering Inc.**  
CONSULTING ENGINEERS  
8307 MAIN ST., HISTORIC ELLICOTT CITY, MD., 21116  
410-465-0407

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for the Soil and Sediment Control.

*Patricia Order* 11/28/94  
U.S. Soil Conservation Service DATE

These plans for Soil and Sediment Control meet the requirements of the Howard County Soil Conservation District.

*John L. Kellerton* 11/28/94  
HOWARD SOIL CONSERVATION DISTRICT DATE

DEVELOPER'S/BUILDER'S CERTIFICATE

I/We certify that all development and construction will be done in accordance with this plan, and that any responsible personnel involved in the construction will have a Certificate of Attendance at the Department of the Environment Approved Training Program for the Control of Sediment before beginning the project. I also authorize periodic inspection by the Howard Soil Conservation Service.

*[Signature]* 11/28/94  
BUILDER/DEVELOPER DATE

ENGINEER'S CERTIFICATE

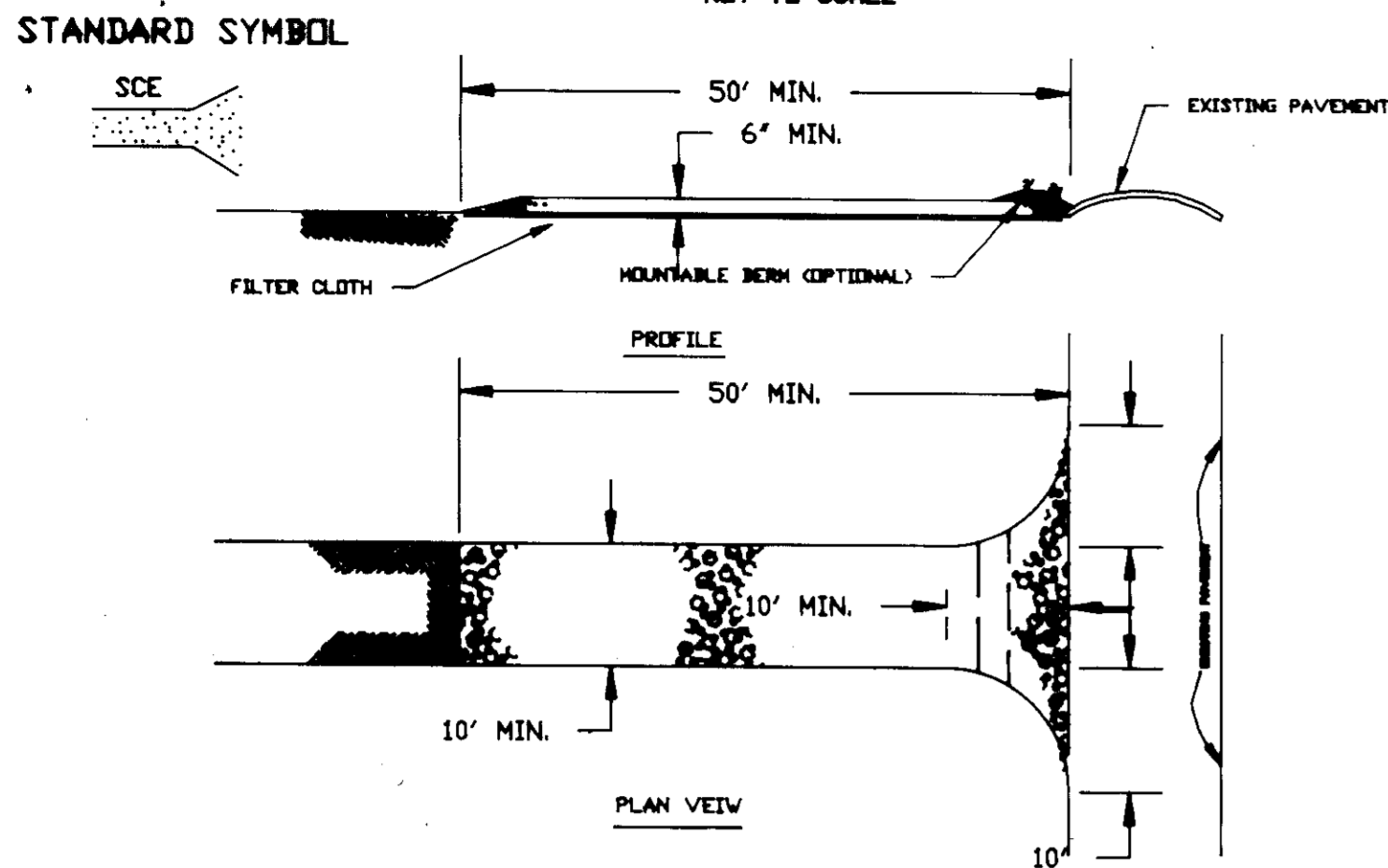
I hereby certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site and conditions and it was prepared in accordance with the requirements of Howard Soil Conservation District.

*[Signature]* 11/28/94  
SIGNATURE OF ENGINEER DATE

SUBDIVISION NAME		SECT./AREA	LOT NO.
RUPPERT WOODS			1 - 14
PLAT NO.	BOOK NO.	ZONE	TAX-ZONE
11457		R-12	42
WATER CODE	ELECT. DIST.	SEWER CODE	CONDIS. NO.
E-4		S 200 400	606703
DESIGNED	JNC	SCALE	
DRAWN	JNC	1" = 30'	
CHECKED	MLL	DRWG. NO.	
		3 OF 4	
DATE	OWNER	JOB NO.	
6.9.94	RYAN HOMES, BALTIMORE WEST 1829 REISTERSTOWN RD., SUITE 220 BALTIMORE, MARYLAND 21208	FILE	



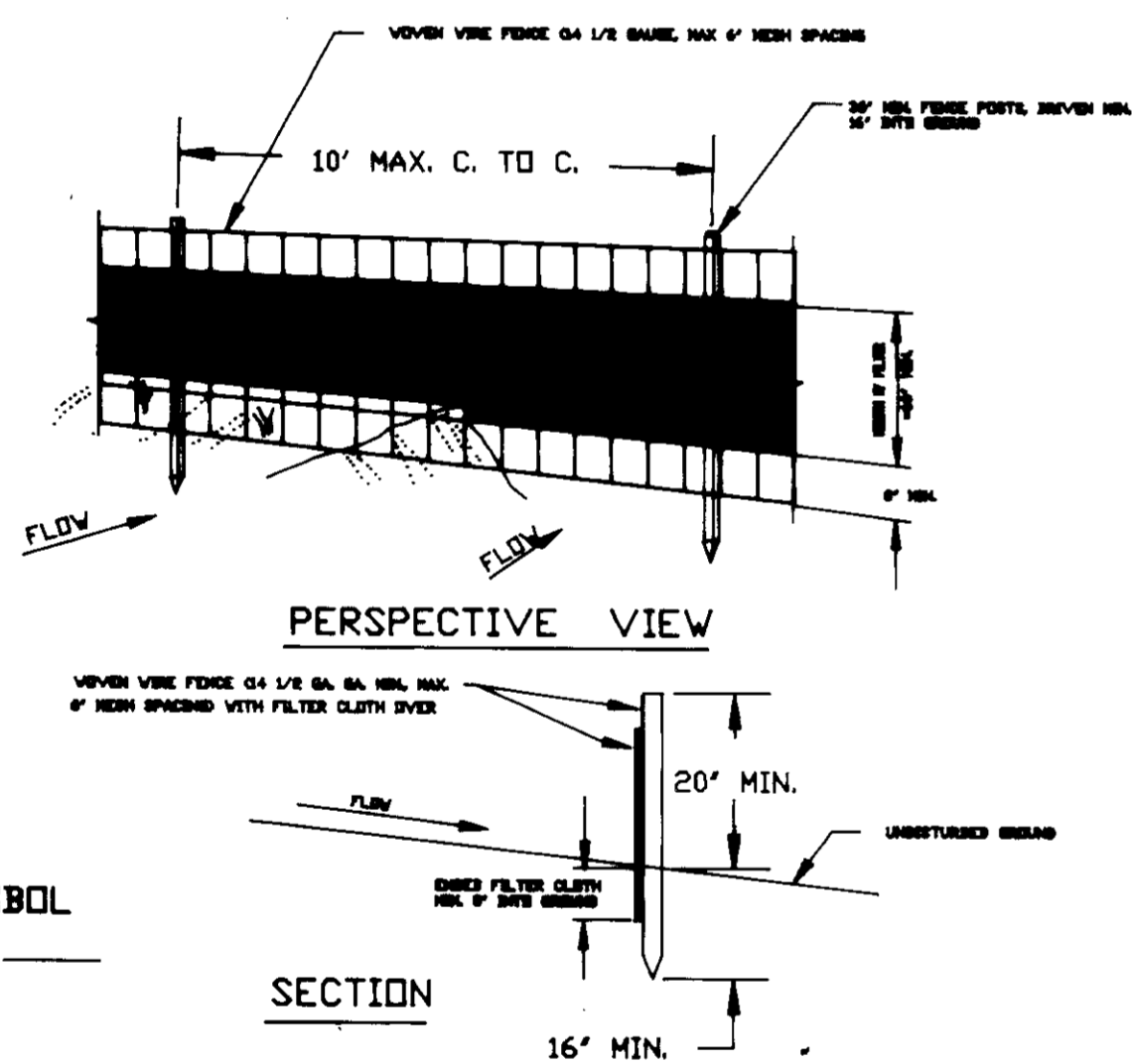
STABILIZED CONSTRUCTION ENTRANCE  
NOT TO SCALE



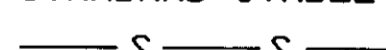
CONSTRUCTION SPECIFICATION

- STONE SIZE - USE 2" STONE OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH WOULD APPLY).
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - 15M (60) FOOT MINIMUM, BUT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A PORTABLE BERM WITH 5% SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT INTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY WHEN IS REQUIRED. IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

SILT FENCE



STANDARD SYMBOL



CONSTRUCTION NOTES FOR FABRICATION SILT FENCE

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.

- POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD
- FENCE: WOVEN WIRE, 14.5 GAL 6" MAX. MESH OPENING
- FILTER CLOTH: FILTER # 100, 100 X 30 FT. STABIL-LINKA T-140 N OR APPROVED EQUAL
- PREFABRICATED UNIT: GEOPAR, ENVIROFENCE, OR APPROVED EQUAL.

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, UNLESS 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/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 TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ FT).
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 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 (.05 LBS/1000 SQ FT) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL-ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL-ANCHORED STRAW.

MULCHING - APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED STRAW 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 (8 GAL/1000 SQ FT) FOR ANCHORING.

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

TEMPORARY SEEDING NOTES

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

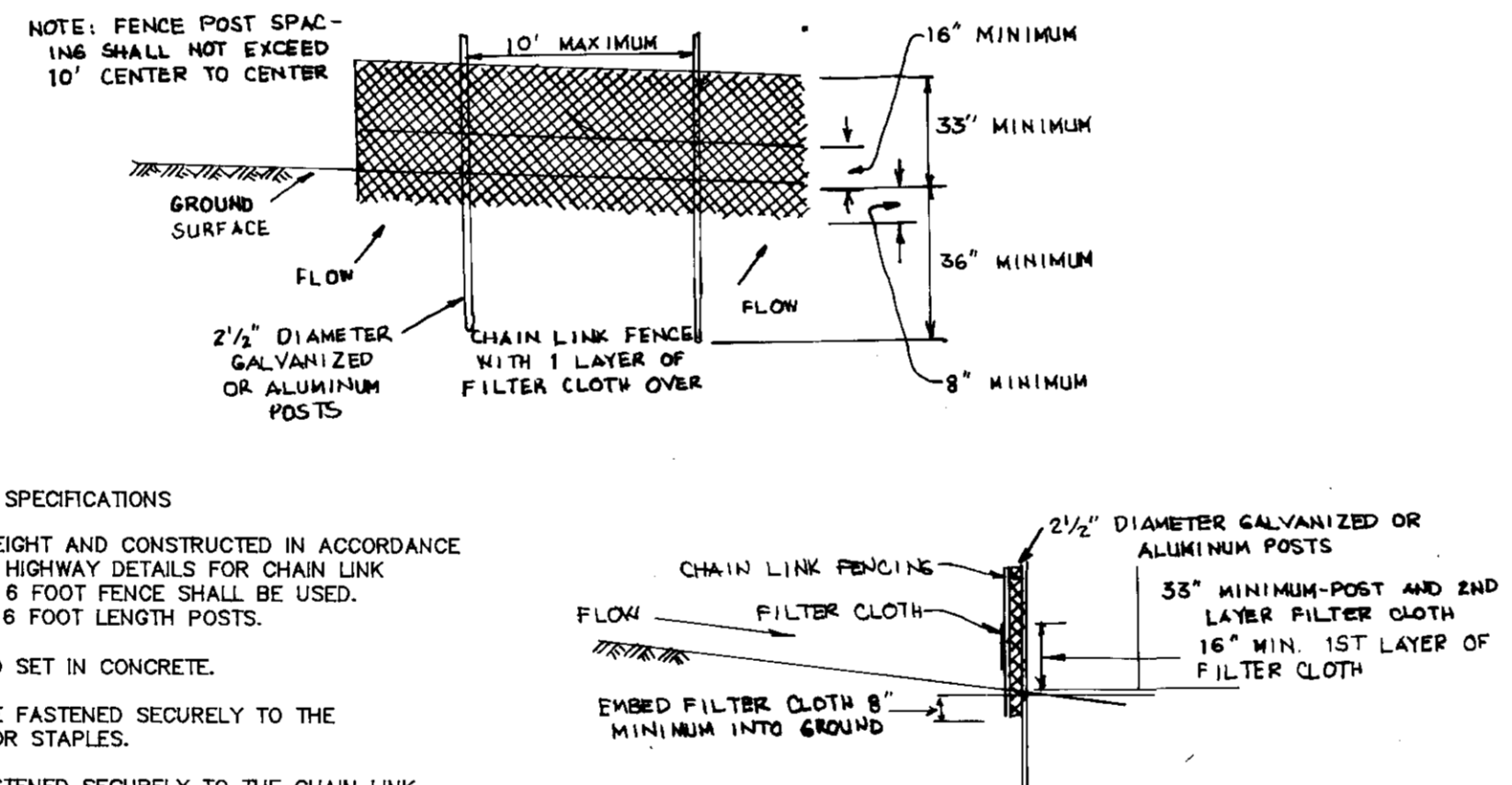
SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, UNLESS PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT).

SEEDING - FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 1 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ FT). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ FT). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL-ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

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

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.



SUPER SILT FENCE DETAIL

CONSTRUCTION SPECIFICATIONS

FENCING SHALL BE 42 INCHES IN HEIGHT AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST MARYLAND STATE HIGHWAY DETAILS FOR CHAIN LINK FENCING. THE SPECIFICATION FOR A 6 FOOT FENCE SHALL BE USED, SUBSTITUTING 42 INCH FABRIC AND 6 FOOT LENGTH POSTS.

- THE POLES DO NOT NEED TO SET IN CONCRETE.
- CHAIN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT THE TOP AND MID SECTION.
- FILTER CLOTH SHALL BE EMBEDDED A MINIMUM OF 8" INTO THE GROUND.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT BUILDUPS REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.

STANDARD AND SPECIFICATION FOR VEGETATIVE STABILIZATION WITH SOD

- CLASS OF TURFGRASS SOD SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED, OR MARYLAND OR VIRGINIA STATE APPROVED SOD.
- SOD SHALL BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH, PLUS OR MINUS 1/4 INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND THATCH.
- STANDARD SIZE SECTIONS OF SOD SHALL BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.
- INDIVIDUAL PIECES OF SOD SHALL BE CUT TO THE SUPPLIERS WIDTH AND LENGTH. MAXIMUM ALLOWABLE DEVIATION FROM STANDARD WIDTHS AND LENGTHS SHALL BE 5 PERCENT. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.
- SOD SHALL NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.
- SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD SHALL BE INSPECTED AND APPROVED PRIOR TO ITS INSTALLATION.

SITE PREPARATION

FERTILIZER AND LIME APPLICATION RATES SHALL BE DETERMINED BY SOIL TESTS. UNDER UNUSUAL CIRCUMSTANCES WHERE THERE IS UNSUFFICIENT TIME FOR A COMPLETE SOIL TEST, FERTILIZER AND LIME MATERIALS MAY BE APPLIED IN AMOUNTS SHOWN UNDER B, BELOW.

- PRIOR TO SODDING, THE SURFACE SHALL BE CLEARED OF ALL TRASH, DEBRIS, AND OF ALL ROOTS, BRUSH, WIRE, GRADE STAKES, AND OTHER OBJECTS THAT WOULD INTERFERE WITH PLANTING, FERTILIZING OR MAINTENANCE OPERATIONS.
- WHERE THE SOIL IS ACID OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 2 TONS/ACRE OR 100 POUNDS PER 1,000 SQUARE FEET. IN ALL SOILS 1,000 POUNDS PER ACRE OR 25 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 FERTILIZER OR EQUIVALENT SHALL BE UNIFORMLY APPLIED AND MIXED INTO THE TOP 3 INCHES OF SOIL WITH THE REQUIRED LIME.
- ALL AREAS RECEIVING SOD SHALL BE UNIFORMLY FINE GRADED, HARD-PACKED EARTH SHALL BE SCARIFIED PRIOR TO PLACEMENT OF SOD.

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. (998-2437)

- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

- 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.

- ALL SEDIMENT TRAPS/BASINS MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.

- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51), SOD (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 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.

- SITE ANALYSIS:  
TOTAL AREA OF SITE: 3.02 ACRES  
AREA DISTURBED: 2.78 ACRES  
AREA TO BE ROOFED OR PAVED: 1.42 ACRES  
AREA TO BE VEGETATIVELY STABILIZED: 1.36 ACRES  
TOTAL CUT: 1,200 CU. YDS  
TOTAL FILL: 1,200 CU. YDS  
OFFSITE WASTE/BORROW AREA LOCATION: TO BE DETERMINED DURING CONSTRUCTION

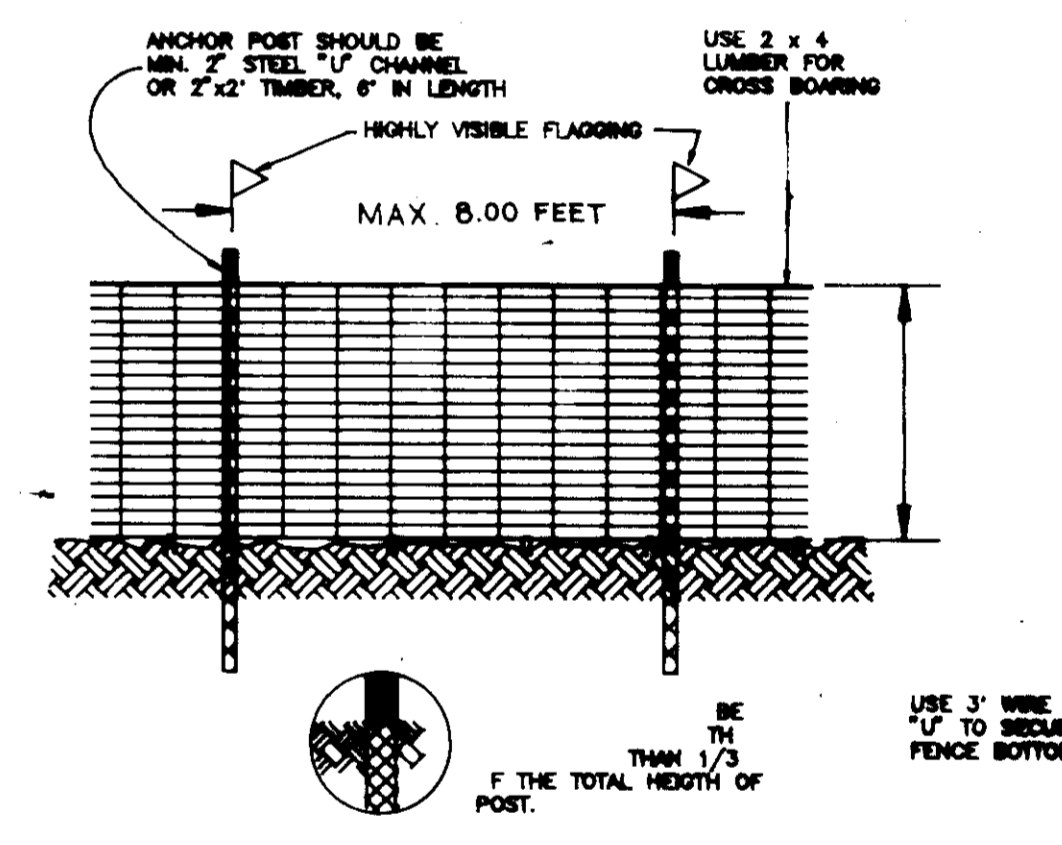
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW 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 INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

GENERAL NOTES

- REFER TO 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN.
- WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, MINOR FIELD ADJUSTMENTS CAN AND WILL BE MADE TO INSURE THE CONTROL OF ANY SEDIMENT. CHANGES IN SEDIMENT CONTROL PRACTICES REQUIRE PRIOR APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE COUNTY SOIL CONSERVATION DISTRICT.
- AT THE END OF EACH WORKING DAY, ALL SEDIMENT CONTROL PRACTICES WILL BE INSPECTED AND LEFT IN OPERATIONAL CONDITION.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN A) SEVEN CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL; (B) AND (C) FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ANY CHANGE TO THE GRADING PROPOSED ON THIS PLAN REQUIRES RE-SUBMISSION TO COUNTY SOIL CONSERVATION DISTRICT FOR APPROVAL.
- DUST CONTROL WILL BE PROVIDED FOR ALL DISTURBED AREAS. REFER TO 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, PP 62.01 AND 62.02 FOR ACCEPTABLE METHODS AND SPECIFICATIONS FOR DUST CONTROL.
- ANY VARIATION FROM THE SEQUENCE OF OPERATIONS STATED ON THIS PLAN REQUIRES THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE COUNTY SOIL CONSERVATION DISTRICT PRIOR TO THE INITIATION OF THE CHANGE.
- EXCESS CUT OR BORROW MATERIAL SHALL GO TO OR COME FROM, RESPECTIVELY, A SITE WITH AN APPROVED SEDIMENT CONTROL PLAN.
- THE FOLLOWING ITEM MAY BE USED AS APPLICABLE:
- REFER TO 'MARYLAND'S GUIDELINES TO WATERWORKS CONSTRUCTION' BY THE WATER RESOURCES ADMINISTRATION (WRA), DATED JANUARY, 1986 FOR STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN FOR WATERWAY CONSTRUCTION.



BLAZE ORANGE PLASTIC MESH

NOT TO SCALE

- NOTES:
- FOREST PROTECTION DEVICE ONLY.
  - RETENTION AREA WILL BE SETBACK PART OF THE REVIEW PROCESS.
  - BOUNDARIES OF RETENTION AREA SHOULD BE STAKE AND FLAGGED PRIOR TO INSTALLING DEVICE.
  - ROOT DAMAGE SHOULD BE AVOIDED.
  - PROTECTIVE SIGNAGE MAY ALSO BE USED.
  - DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT

COUNCIL HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

PLANNING DIRECTOR *Paul S. Mangle* 12/15/94

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT *Quinn Summerville* 12/17/94

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

11/30/94

11/29/94

**Woria Engineering, Inc.**  
CONSULTING ENGINEERS  
8307 MAIN ST., HISTORIC ELLICOTT CITY, MD.  
410-485-0400

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for soil and sediment control.

*Patricia Endler* 11/20/94  
Soil Conservation Service

These plans for soil and sediment control meet the requirements of the Howard Soil Conservation District.

*John R. Robertson* 11/28/94  
Howard Soil Conservation District

ENGINEER'S CERTIFICATE

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

*[Signature]*  
SIGNATURE OF ENGINEER

*[Signature]*  
DATE

DEVELOPER'S/BUILDER'S CERTIFICATE

I/We certify that all development and construction will be done in accordance with this plan, and that any responsible personnel involved in the construction will have a Certificate of Attendance at the Department of the Environment Approved Training Program for the Control of Sediment before beginning the project. I also authorize periodic inspection by the Howard Soil Conservation Service.

*[Signature]*  
DEVELOPER/BUILDER

8/16/94  
DATE

RUPPERT WOODS  
LOTS 1 THRU 14

SEDIMENT AND EROSION CONTROL NOTES

Owner: \_\_\_\_\_

SCALE: 1" = 10'	DATE: 07-29-94	SHEET: 4 of 4
DESIGNED: MLL	DRAWN: JER	CHECKED: MLL

SDP 95-19