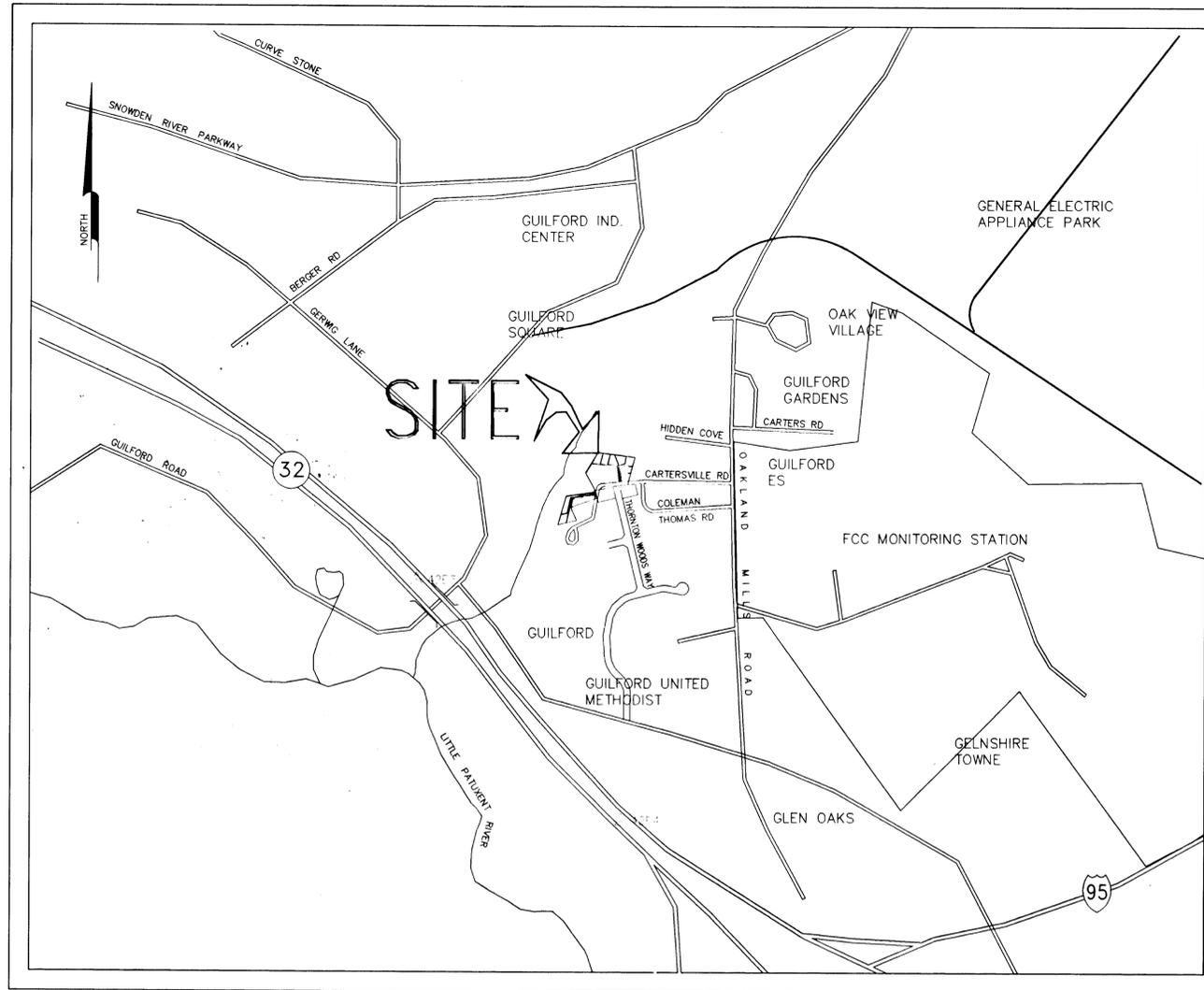


GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARD AND SPECIFICATION OF THE HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF CONSTRUCTION INSPECTION AT 410-313-4880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
3. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORKS.
4. PROJECT BACKGROUND :
 - a. TAX MAP 42, PARCEL 40, 341, & 318 LIBER , FOLIO
 - b. TOTAL AREA OF SUBDIVISION = 5.20 ACRES
 - c. NUMBER OF LOTS PROPOSED = 12 BUILDABLE, 1 OPEN SPACE
 - d. SKETCH PLAN WAS APPROVED ON FEB. 27, 1995 UNDER S-95-06.
 - e. PRELIMINARY PLAN WAS APPROVED ON JUNE 16, 1995 UNDER P-95-22.
- f. THIS SUBDIVISION IS SUBJECT TO WP 95-35 APPROVED ON FEB. 3, 1995 WAIVING THE REQUIREMENT OF SECTION 16.116-a-1, 16.11A-a-2 TO PERMIT GRADING WITHIN THE WETLAND AND STREAM BUFFERS, AND SECTION 16.120(b)(1) TO PERMIT SIX (6) PIPESTEM LOTS ADJACENT TO EACH OTHERS.
5. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES(MUTCD). ALL STREETS AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO PLACEMENT OF ANY ASPHALT.
6. BOUNDARY AND TOPOGRAPHIC SURVEY PERFORMED BY JOHN MELLEMA, INC. ON DEC. 1993
7. HORIZONTAL AND VERTICAL DATUM ARE BASED ON MARYLAND STATE COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY CONTROL STA. (NAD 83) 42E3 AND 42E4.
8. LIGHT POLES AND FIXTURES SHALL BE IN ACCORDANCE WITH THE LATEST HOWARD COUNTY DESIGN MANUAL, VOLUME III, ROAD AND BRIDGES.
9. PUBLIC WATER AND PUBLIC SEWER WILL BE USED. THE DRAINAGE AREA IS LITTLE PATUXENT.
10. A RETENTION POND IS PROPOSED FOR STORMWATER MANAGEMENT. INFILTRATION TRENCHES ARE PROPOSED FOR WATER QUALITY FOR LOTS 5, 6, 7, 8, 9, 10, 11, & 12.
11. WETLANDS DELINEATED BY ECO-SCIENCE PROFESSIONALS, INC. ON JAN 4, 1994
12. GEOTECHNICAL REPORT WAS PERFORMED BY INVESTIGATIVE TESTING & ENGINEERING, INC. ON JAN. 1995.
13. EXISTING UTILITIES ARE BASED ON HOWARD COUNTY AS BUILT PLANS AND THE TOPOGRAPHIC SURVEY BY JOHN MELLEMA, INC.
14. 95% CONFORMANCE WITH THE REQUIREMENT OF SECTION 16.116-a-1.
15. THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULLY MEET THE REQUIREMENT OF SECTION 16.120 OF THE HOWARD COUNTY FOREST CONSERVATION ACT. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT EXCEPT AS SHOWN ON AN APPROVED ROAD DRAWING OR SITE DEVELOPMENT PLAN. HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
16. MAINTAIN 20' SPACING BETWEEN STREET LIGHTS & TREES.
17. GRADING IN THE WETLAND BUFFER IS APPROVED BY THE DEPARTMENT OF THE ENVIRONMENT UNDER TRACING NO. 1994-65264.



LOCATION MAP
SCALE : 1" = 600'

INDEX	
1	COVER SHEET
2	PLAN & PROFILE - CARTERSVILLE ROAD
3	DRAINAGE AREA MAP
4	GRADING PLAN & LANDSCAPE PLAN
5	STORMWATER MANAGEMENT POND & DETAILS
6	DRAINAGE PROFILES
7	SEDIMENT CONTROL PLAN & SOILS MAP
	FOREST CONSERVATION PLAN
8	GENERAL NOTES FOR POND
	SEDIMENT CONTROL NOTES
9	TRAFFIC CONTROL PLAN

MATTHEWS WOODS
LOTS 1 thru 13
ROAD CONSTRUCTION DRAWING
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chia Summank
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH 2/27/96 DATE

John Mellema
CHIEF, DEVELOPMENT ENGINEERING DIVISION 2/23/96 DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Andrew M. Daniels
CHIEF, BUREAU OF HIGHWAYS 2-21-96 DATE

DESIGN :	BY	NO.	REVISION	DATE
MLL				
DRAWN :				
AVG				
CHECK :				
MLL				
DATE :				

Voria Engineering Inc.
CONSULTING ENGINEERS
8307 MAIN ST., HISTORIC ELLICOTT CITY, MD.
TEL 410-465-0400 FAX 410-465-0489



OWNER :
MAPLE COLEMAN
9276 CARTERSVILLE RD.
COLUMBIA, MD. 21046
WILLIAM A. MATTHEWS
9272 CARTERSVILLE RD.
COLUMBIA, MD. 21046

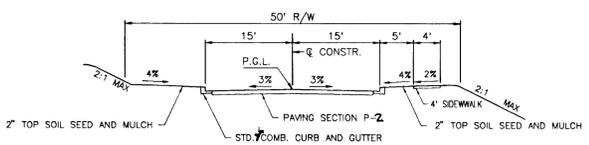
DEVELOPER :
LAND DESIGN & DEVELOPMENT INC.
10805 HICKORY RIDGE RD.
COLUMBIA, MD. 21044

COVER SHEET
MATTHEWS WOODS
LOTS 1 THRU 13
TAX MAP 42 PARCEL 40, 341, & 318
6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 1 OF 9

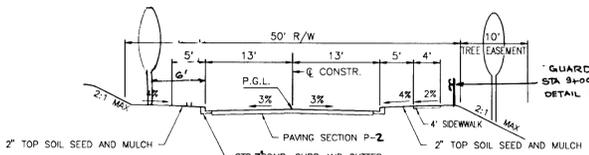
F-96-18

C:\DWG\MATTF COVER 1995



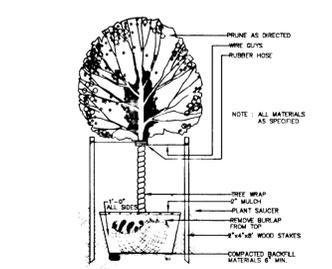
TYPICAL SECTION

STA. 7+95.48 TO 8+65.73 OF THORNTON WOODS WAY
DESIGN SPEED - 30 MPH

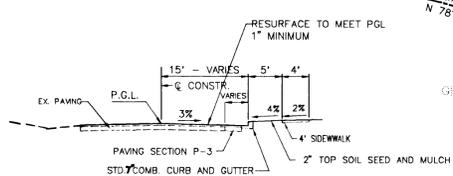


TYPICAL SECTION

STA. 7+13 TO 11+42.86 OF CARTERSVILLE RD.
DESIGN SPEED 30 MPH - STA. 7+34 TO 9+62.92
DESIGN SPEED 25 MPH - STA. 9+62.92 TO 11+42.86

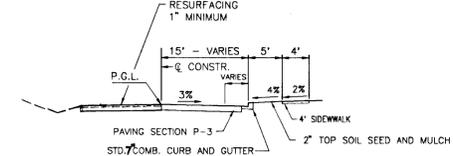


TYPICAL DECIDUOUS TREE PLANTING DETAIL



TYPICAL SECTION

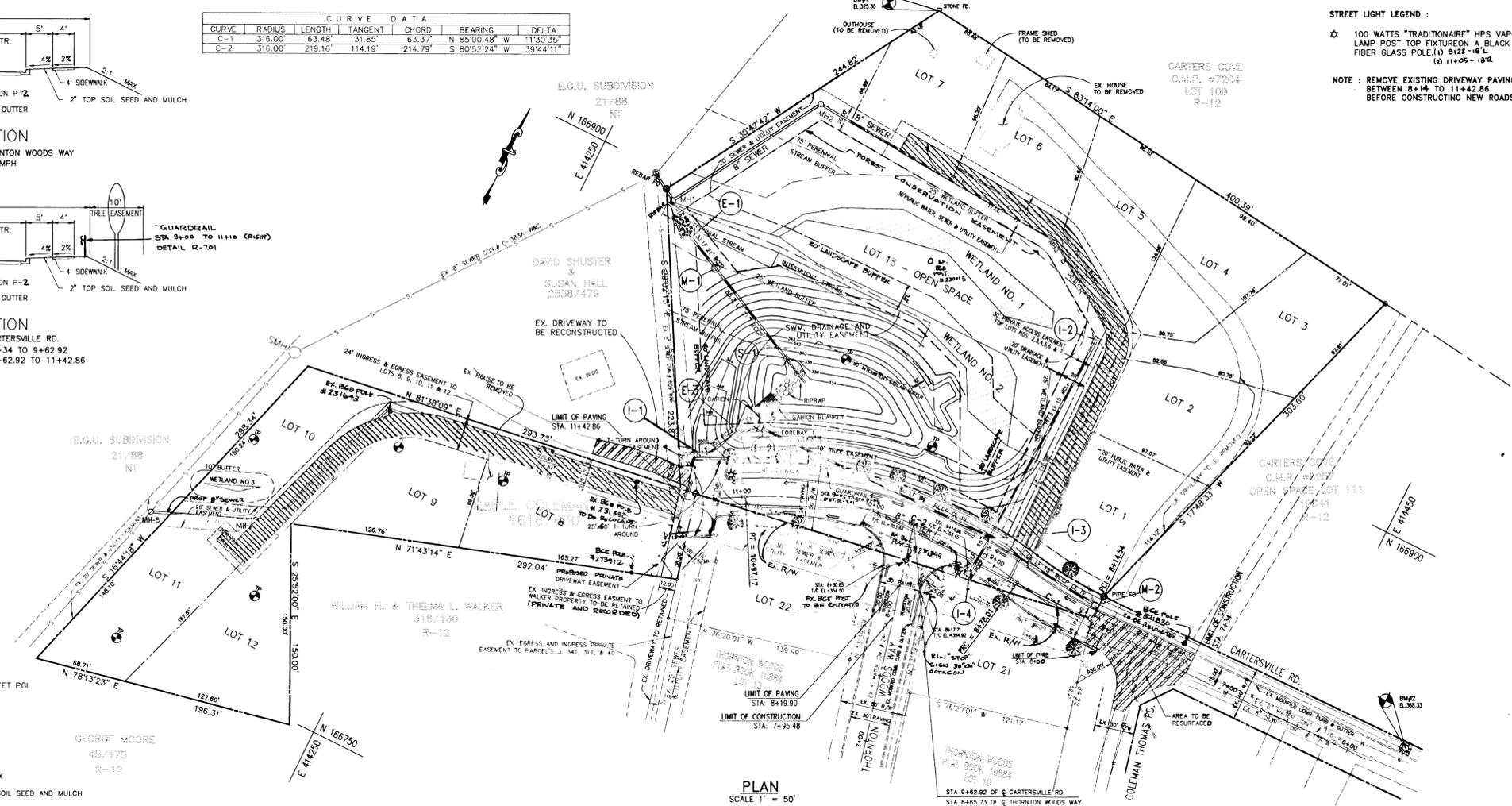
STA. 7+34 TO 8+14



TYPICAL SECTION

STA. 8+14 TO 8+21.51

CURVE DATA						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C-1	316.00	63.48	31.85	63.37	N 85°00'48" W	113°30'35"
C-2	316.00	219.16	114.19	214.79	S 80°52'24" W	39°44'11"

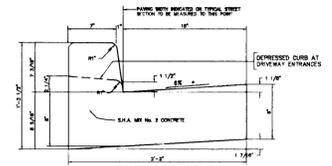


PLAN SCALE 1" = 50'

STREET LIGHT LEGEND:
 ☆ 100 WATTS "TRADITIONAIRE" HPS VAPOR LAMP, POST TOP FIXTURE ON A BLACK FIBER GLASS POLE (1) 9+22 - 18' L (2) 11+05 - 18' L
 NOTE: REMOVE EXISTING DRIVEWAY PAVING BETWEEN 8+14 TO 11+42.86 BEFORE CONSTRUCTING NEW ROADS.

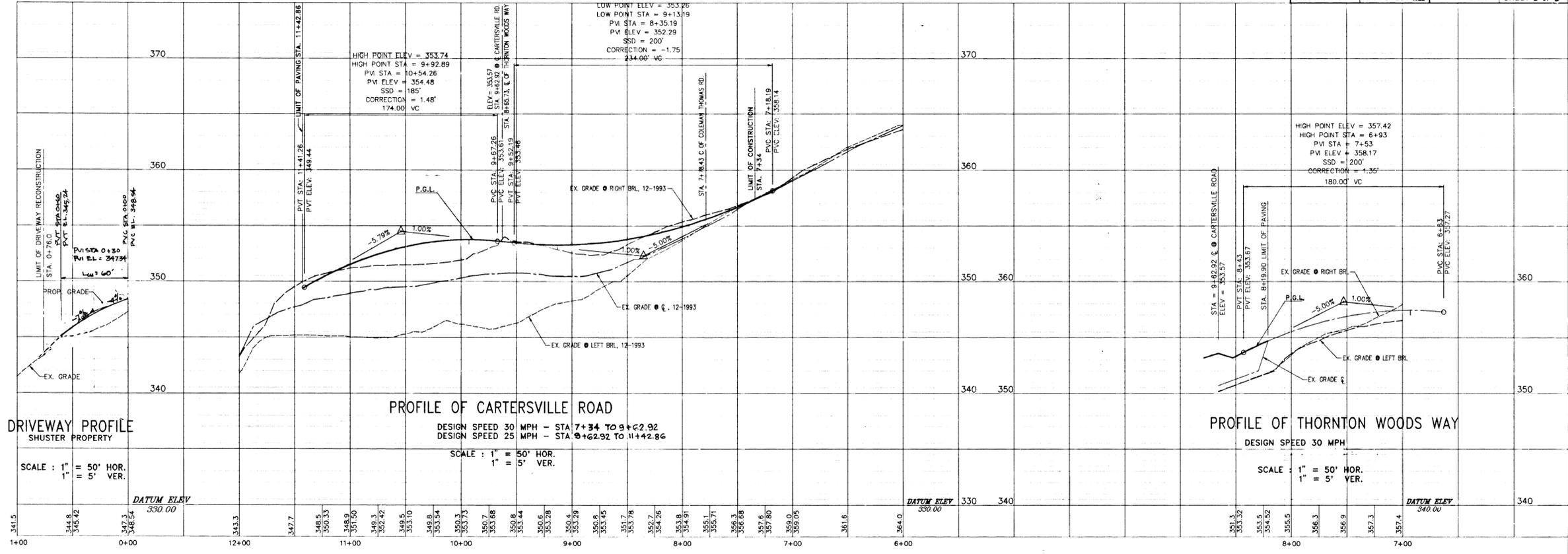
PLANT SCHEDULE					
SYMBOL	LOCATION	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE
☆	CARTERSVILLE ROAD	ACER RUBRUM	"OCTOBER GLORY" RED MAPLE	11	2 1/2" CAL.

NOTE: MAINTAIN 20' SPACING BETWEEN STREET LIGHTS AND TREES.



STANDARD 7" COMBINATION CURB AND GUTTER NOT TO SCALE

NO.	DATE	REVISION
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING		
		<i>Chitra Srinivasan</i> 2/27/96 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE
		<i>Mike O'Connor</i> 2/20/96 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
APPROVED: HOWARD COUNTY DEPARTMENT PUBLIC WORKS		
		<i>Robert M. Jankel</i> 2-21-96 CHIEF, BUREAU OF HIGHWAYS DATE
PROJECT: MATTHEWS WOODS		
LOTS 1 THRU 13		
LOCATION: TAX MAP 42, PARCEL 40, 341, & 318 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE: PLAN AND PROFILE - CARTERSVILLE RD.		
OWNER: MAPLE COLEMAN 9276 CARTERSVILLE RD. COLUMBIA, MD. 21046		
WILLIAM A. MATTHEWS 9272 CARTERSVILLE RD. COLUMBIA, MD. 21046		
DEVELOPER: LAND DESIGN & DEVELOPMENT INC. 10805 HICKORY RIDGE RD. COLUMBIA, MD. 21044		CONSULTING ENGINEERS 8307 MAIN ST., HISTORIC ELLICOTT CITY, MD TEL: 410-485-0400 FAX: 410-485-0489
DESIGN: MLL	CHECKED: MLL	DATE: 7-17-95
DRAWN: AVG	APPROVED: MLL	SCALE: AS SHOWN
PROJ. NO.: 8 SHEET 2 OF 9		



PROFILE OF CARTERSVILLE ROAD

DESIGN SPEED 30 MPH - STA. 7+34 TO 9+62.92
DESIGN SPEED 25 MPH - STA. 9+62.92 TO 11+42.86

DRIVEWAY PROFILE SHUSTER PROPERTY

SCALE: 1" = 50' HOR.
1" = 5' VER.

PROFILE OF THORNTON WOODS WAY

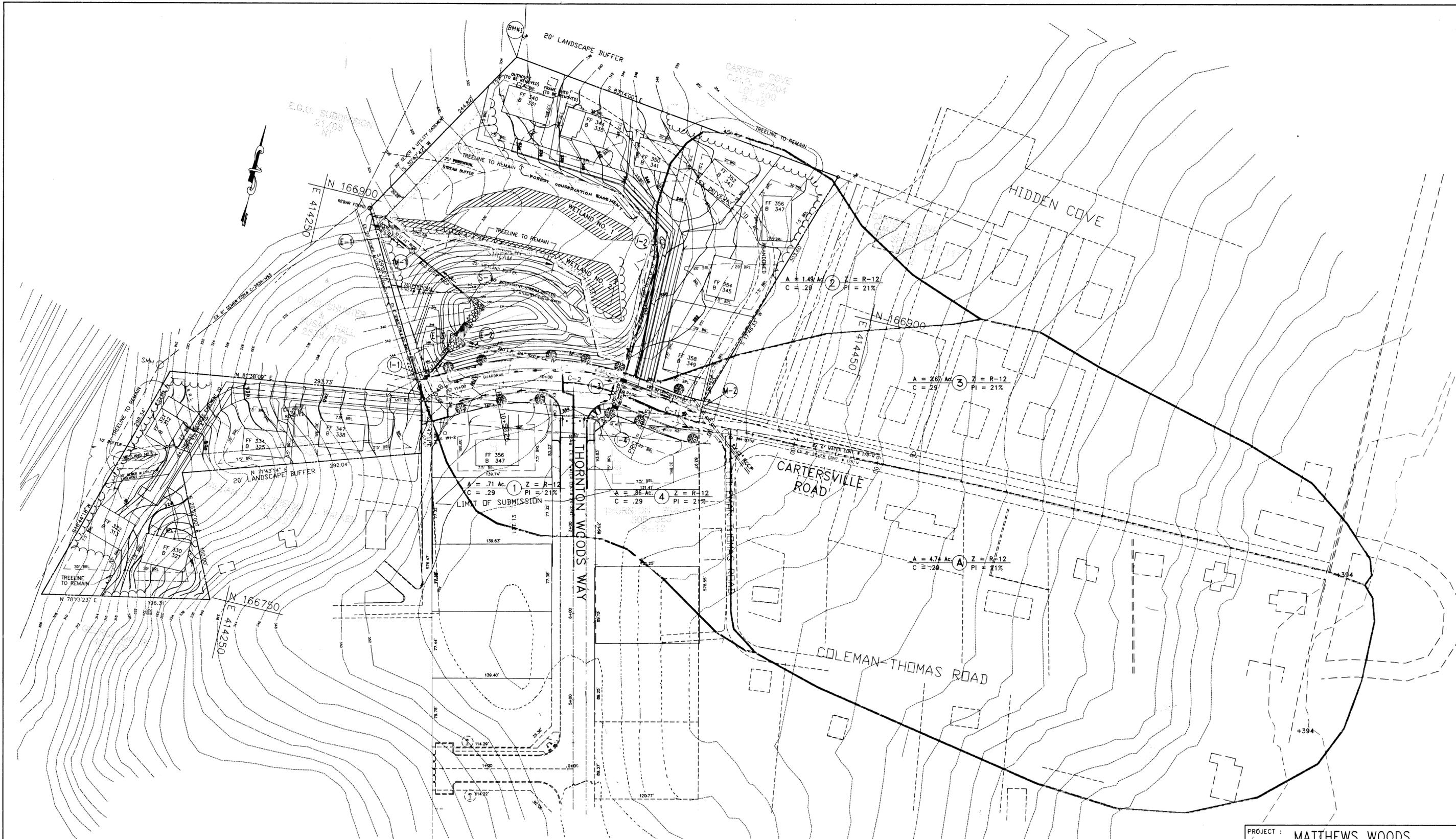
DESIGN SPEED 30 MPH

SCALE: 1" = 50' HOR.
1" = 5' VER.

1786

F-910-18

1786
C. LONGMATELLE, 3030 W. M. ST., COLUMBIA, MD. 21046



NO.	DATE	REVISION
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING		
		<i>Aina Drumman</i> 2/27/96 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE
		<i>Robert Dammann</i> 2/28/96 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
APPROVED: HOWARD COUNTY DEPARTMENT PUBLIC WORKS		
		<i>William M. Janette</i> 2-21-96 CHIEF, BUREAU OF HIGHWAYS DATE



PROJECT : MATTHEWS WOODS LOTS 1 THRU 13	
LOCATION : TAX MAP 42, PARCEL 40, 341, & 348 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE : DRAINAGE AREA MAP	
OWNER : MAPLE COLEMAN 9276 CARTERSVILLE RD. COLUMBIA, MD. 21046	DEVELOPER : LAND DESIGN & DEVELOPMENT INC. 10805 HICKORY RIDGE RD. COLUMBIA, MD. 21044
OWNER : WILLIAM A. MATTHEWS 9272 CARTERSVILLE RD. COLUMBIA, MD. 21046	CONSULTING ENGINEER : Coria Engineering Inc. 8507 MAIN ST., HISTORIC ELLICOTT CITY, MD. TEL: 410-485-0400 FAX: 410-485-0499
DESIGN: MLL (CHECKED: MLL)	DATE: 7-17-95 PROJ. NO.:
DRAWN: GUS (APPROVED:)	SCALE: 1" = 50' SHEET 3 OF 9

7-96-18

SCHEDULE A
PERIMETER LANDSCAPE EDGE (TYPE A)

Category	LANDSCAPE BUFFER DESIGNATION				
	A	B	C	D	E
Linear Feet	195	150	290	500	300
Credit for Existing Vegetation	60	0	0	210	30
Credit for Wall, Fence or Barn	0	0	0	0	0
Number of Plants Required	2	2	4	5	4
Number of Plants Provided	2	2	4	5	4

PLANT SCHEDULE

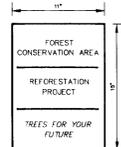
SYMBOL	LOCATION	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE
	POND	PINUS STRUBUS	"WHITE PINE"	10	2 1/2 CAL.
	PERIMETER & POND	QUERCUS COCCINEA	SCARLET OAK	25	2 1/2 CAL.

NOTE: MAINTAIN 2.0' SPACING BETWEEN STREET LIGHTS AND TREES.
a) BONDING FOR THE 18 REQUIRED LANDSCAPE TREES ON THE STORMWATER MANAGEMENT AREA IN THE AMOUNT OF \$1800.00 SHALL BE PART OF THE DEVELOPER'S AGREEMENT.

b) FINANCIAL SURETY FOR THE 17 REQUIRED LANDSCAPE TREES ALONG PERIMETER MUST BE POSTED BY THE BUILDER AS PART OF THE GRADING PERMIT FOR THE SDP IN THE AMOUNT OF \$1700.00.

SCHEDULE D
STORMWATER MANAGEMENT AREA LANDSCAPING (TYPE B)

Linear Feet of Perimeter	750
Credit for Existing Vegetation (No. Yes and X)	330
Number of Trees Required	
Shade Trees	8
Evergreen Trees	10
Credit for Other Landscaping (No. Yes and X)	NO
Number of Trees Provided	
Shade Trees	8
Evergreen Trees	10
Other Trees (2:1 substitution)	



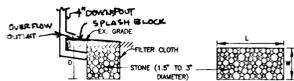
SIGNAGE DETAIL

NOTE:

- All Perimeter Landscape Edge (Type A) will be the responsibility of the builder of each lot.
- All Stormwater Management Area Landscaping (Type B) will be the responsibility of the developer.

INFILTRATION TRENCHES ON LOTS

LOT NO.	SIZE (W x L x D)	VOLUME REQUIRED (CUFT)	VOLUME PROVIDED (CUFT)
5	6x6x4.7	66.75	67.70
6	7x10x5	136.70	140.00
7	6x9x5	105.80	108.00
8	6x12x5	153.80	156.00
9	7x10x5	136.00	140.00
10	6.5x10x5	126.50	130.00
11	6x9x5	106.70	108.00
12	6x10x4.2	98.50	100.80



INFILTRATION TRENCH DETAIL

NOTES:

- ALL ROOF GUTTERS SHOULD BE CONNECTED TO THE INFILTRATION TRENCH.
- INFILTRATION TRENCHES SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.



PLAN
SCALE 1" = 50'

BORING LOGS

LOT#	TOP SOIL # 5'	REMARKS
LOT# 5	50' - 4.0' DEPTH: LIGHT OLIVE GREEN FINE SAND 50' - 8.0' DEPTH: OLIVE GREEN FINE SAND, TRACE GRAVEL 50' - 12.0' DEPTH: OLIVE GREEN AND BROWN CLAYEY SAND, TRACE GRAVEL	REMARKS: * GROUNDWATER NOT ENCOUNTERED
LOT# 9	50' - 3.0' DEPTH: YELLOWISH BROWN FINE AND MEDIUM SAND, ROCK FRAGMENTS 50' - 6.0' DEPTH: YELLOWISH BROWN FINE AND MEDIUM SAND, ROCK FRAGMENTS	REMARKS: * ROCK AT 2.0' DEPTH * TEST PIT EXCAVATED AT 0.75 SET LOCATION, 20.0' EAST * GROUNDWATER NOT ENCOUNTERED
LOT# 6	50' - 4.0' DEPTH: OLIVE GREEN FINE SAND, TRACE CLAY 50' - 8.0' DEPTH: YELLOWISH BROWN MEDIUM AND FINE SAND	REMARKS: * GROUNDWATER NOT ENCOUNTERED
LOT# 10	50' - 3.0' DEPTH: YELLOWISH BROWN SANDY CLAY, TRACE GRAVEL 50' - 6.0' DEPTH: YELLOWISH BROWN MEDIUM AND FINE SAND	REMARKS: * GROUNDWATER NOT ENCOUNTERED
LOT# 7	50' - 3.0' DEPTH: YELLOWISH BROWN SANDY CLAY, TRACE GRAVEL 50' - 6.0' DEPTH: YELLOWISH BROWN MEDIUM AND FINE SAND	REMARKS: * GROUNDWATER NOT ENCOUNTERED
LOT# 11	50' - 3.0' DEPTH: YELLOWISH BROWN SANDY CLAY, TRACE GRAVEL 50' - 6.0' DEPTH: OLIVE SANDY CLAY	REMARKS: * GROUNDWATER NOT ENCOUNTERED
LOT# 8	50' - 3.0' DEPTH: LIGHT BROWN SLATEY SILTY SAND, GRAVEL 50' - 6.0' DEPTH: LIGHT YELLOW FINE AND MEDIUM SAND, TRACE GRAVEL	REMARKS: * GROUNDWATER NOT ENCOUNTERED
LOT# 12	50' - 3.0' DEPTH: YELLOWISH BROWN FINE AND MEDIUM SAND, ROCK FRAGMENTS 50' - 6.0' DEPTH: YELLOWISH BROWN FINE AND MEDIUM SAND, ROCK FRAGMENTS	REMARKS: * GROUNDWATER NOT ENCOUNTERED

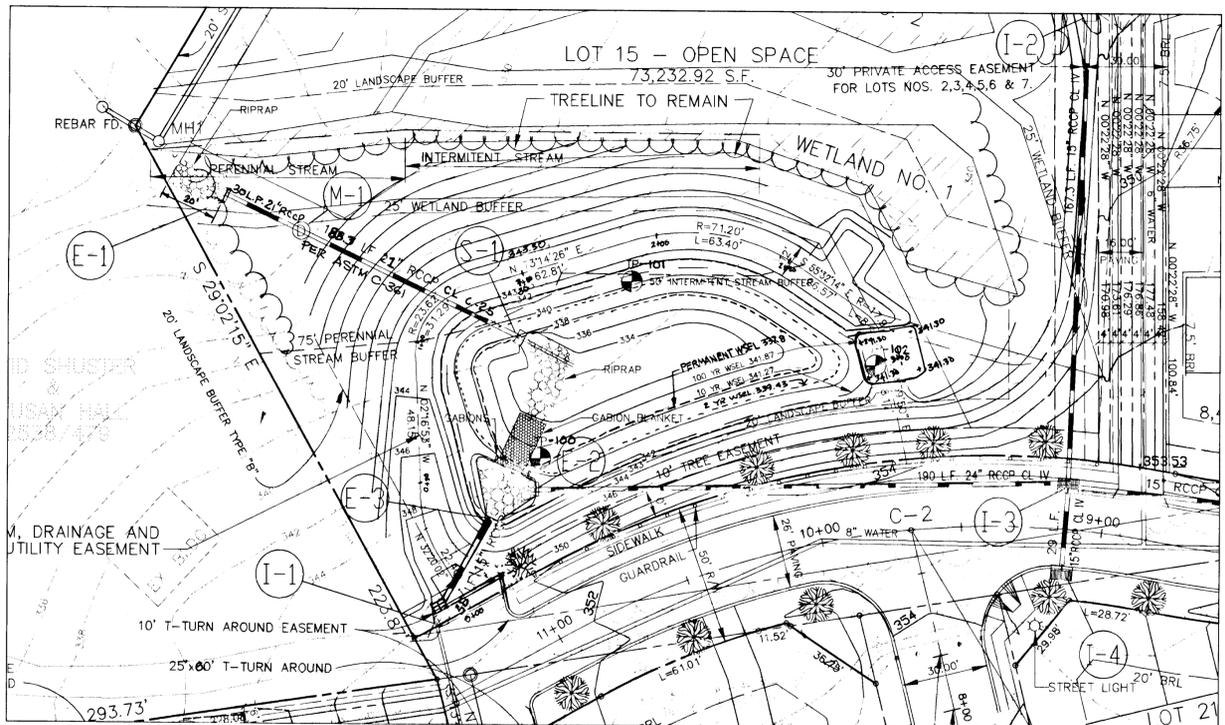
LEGEND:

- INFILTRATION TRENCH
- LIMIT OF DISTURBANCE

NO.	DATE	REVISION
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING		
		<i>Jana Summons</i> 2/27/96 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE
		<i>John Dammann</i> 2/23/96 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS		
		<i>Robert M. Dwyer</i> 2-21-96 CHIEF, BUREAU OF HIGHWAYS DATE
PROJECT: MATTHEWS WOODS LOTS 1 THRU 13		
LOCATION: TAX MAP 42, PARCEL 40, 341, & 318 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE: GRADING PLAN & LANDSCAPE PLAN		
OWNER: MAPLE COLEMAN 9276 CARTERSVILLE RD. COLUMBIA, MD. 21046		
DEVELOPER: LAND DESIGN & DEVELOPMENT INC. 10605 HICKORY RIDGE RD. COLUMBIA, MD. 21044		
DESIGN: MLL		CONSULTING ENGINEERS 8307 MAIN ST., HISTORIC ELLICOTT CITY, MD. COLUMBIA, MD. 21044 TEL: 410-485-0400 FAX: 410-485-0489
DRAWN: AVG		DATE: 071795
CHECKED: MLL		PROJ. NO.:
APPROVED: MLL		SCALE: 1"=50'
		SHEET 4 OF 8

F-96-18

C. LONGMATE 1995



STORMWATER MANAGEMENT POND (PUBLIC MAINTAINED RETENTION POND)-ASTM G361
 NOTE : POND IS HAZARD CLASS A
 SCALE 1" = 30'

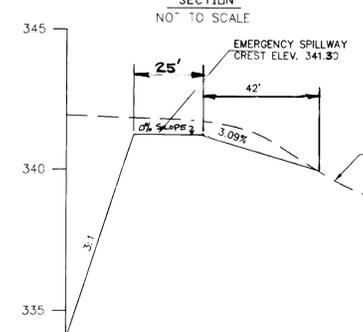
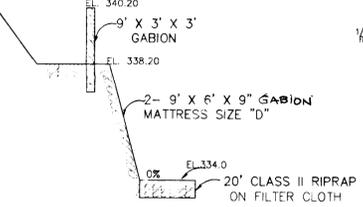
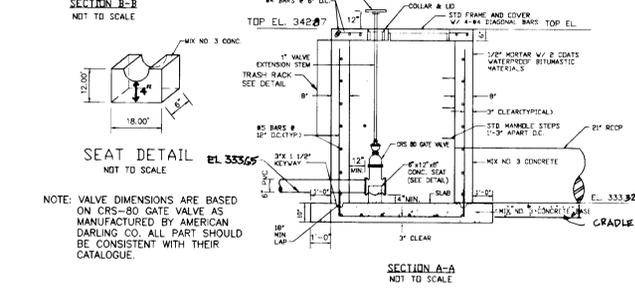
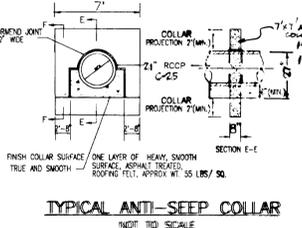
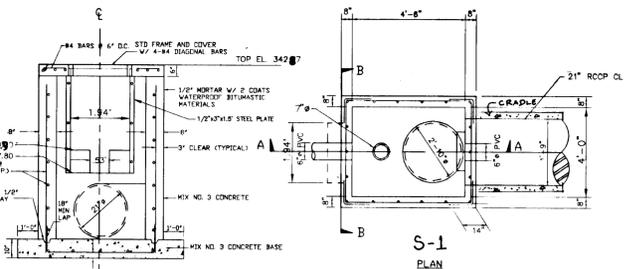
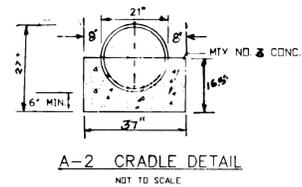
SUMMARY TABLE

1. DRAINAGE AREA = 10.87 ACRES
 2. DESIGN CRITERIA

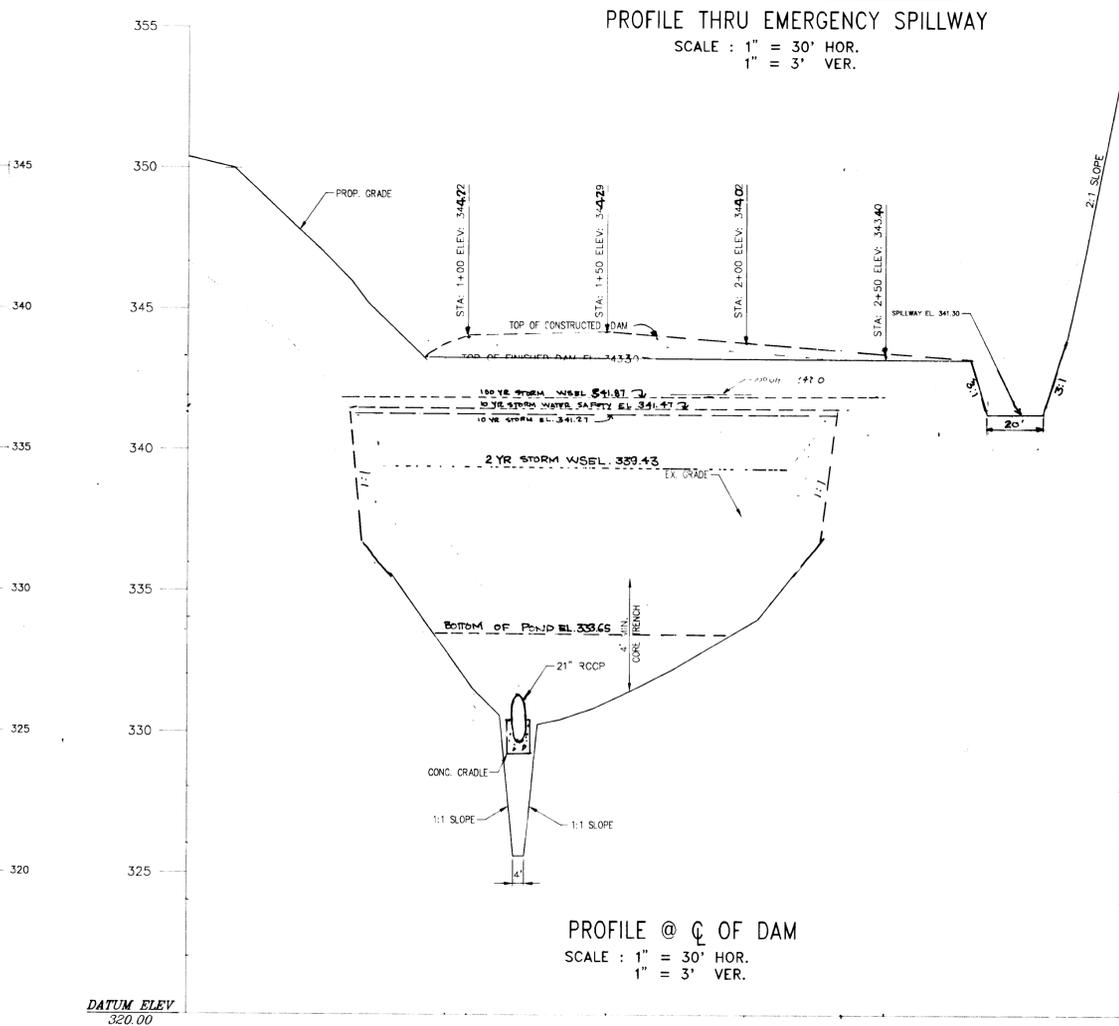
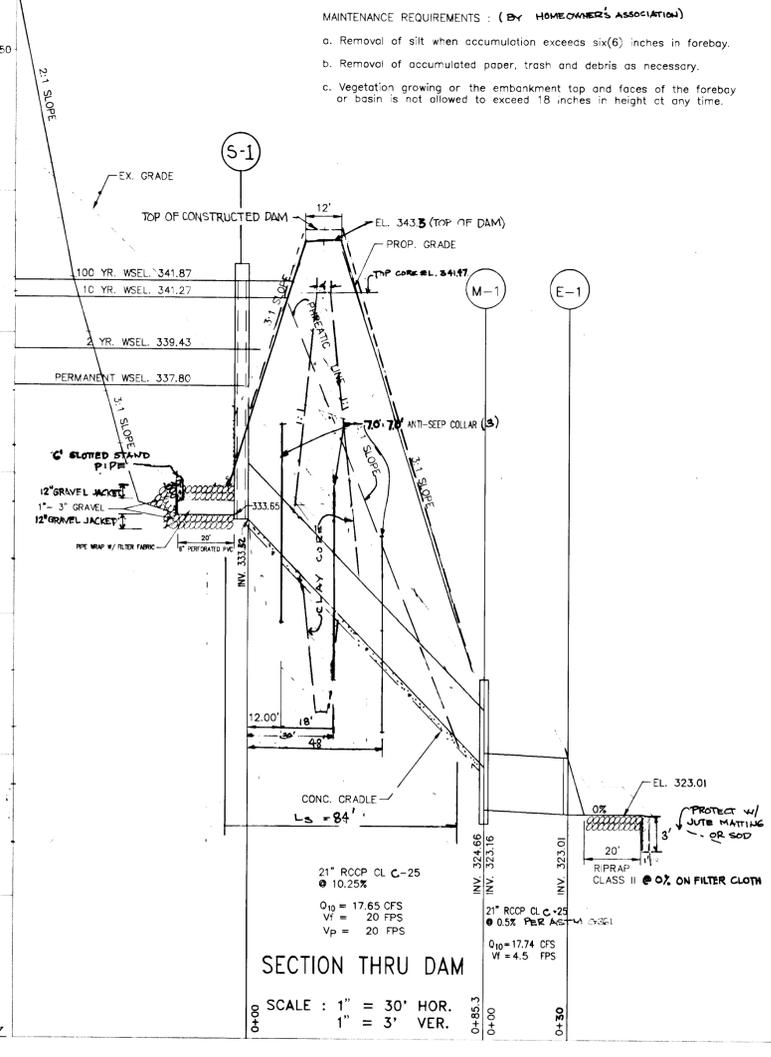
STORM FREQUENCY	ALLOWABLE RELEASE, cfs	INFLOWS
2 YR.	6.12 cfs	10 cfs
10 YR.	17.60 cfs	26 cfs
100 YR.	19.28 cfs	49 cfs
	N/A	

3. POND

STORM	ACTUAL DISCHARGE	ELEVATION	STORAGE
2 YR.	3.41 cfs	339.43	20 ACRE-FT
10 YR.	17.60 cfs	341.27	48 ACRE-FT
100 YR.	46.17 cfs	341.87	59 ACRE-FT



PROFILE THRU EMERGENCY SPILLWAY
 SCALE : 1" = 30' HOR.
 1" = 3' VER.



OPERATION, MAINTENANCE AND INSPECTION

Inspection of the pond(s) shown herein shall be performed at least annually. In accordance with the checklist and requirements contained within USDA, SCS Standards and Specifications For Ponds (WD-378). The pond owner(s) or any heirs, successors, or assigns shall be responsible for the safety of the pond and the continued operation, surveillance, inspection, and maintenance thereof. The pond owner(s) shall promptly notify the Soil Conservation District of any unusual observations that may be indications of distress such as excessive seepage, turbid seepage, sliding or slumping.

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for the Small Pond Construction, Soil Erosion and Sediment Control.
P. Engler 2-7-96
 U.S. Natural Resources Service
 These plans for Small Pond Construction, Soil Erosion and Sediment Control meet the requirements of the Howard County Soil Conservation District.
Rafael Zichem 2-7-96
 Soil Conservation District

ENGINEER'S CERTIFICATE
 I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.
Matthew J. ... 2-7-96
 SIGNATURE OF ENGINEER DATE

DEVELOPER'S/BUILDER'S CERTIFICATE
 I/We certify that all development and/or construction will be done according to these plans, and that any responsible 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 shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.
Matthew J. ... 2-7-96
 BUILDER/DEVELOPER DATE

NO. DATE REVISION
 APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Jim Swann 2/21/96
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

APPROVED : HOWARD COUNTY DEPARTMENT PUBLIC WORKS
Andrew M. ... 2-21-96
 CHIEF, BUREAU OF HIGHWAYS DATE

PROJECT : MATTHEWS WOODS
 LOTS 1 THRU 13
LOCATION : TAX MAP 42, PARCEL 40, 341, & 318
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE : STORMWATER MANAGEMENT POND
 PLAN AND DETAIL
OWNER : MAPLE COLEMAN
 9276 CARTERSVILLE RD.
 COLUMBIA, MD. 21046
DEVELOPER : LAND DESIGN & DEVELOPMENT INC.
 10805 HICKORY RIDGE RD.
 COLUMBIA, MD. 21044
CONSULTING ENGINEERS : 8307 MAIN ST., HISTORIC ELLICOTT CITY, MD.
 TEL: 410-485-0400 FAX: 410-485-0499

DESIGNER : JER
CHECKED : MLL
DATE : 02-14-96
DRAWN : JER
APPROVED : AVG
SCALE : AS SHOWN
SHEET NO. : 5 OF 9

Datum: Hammer Wt. Hole Diameter Foreman
 Surf. Elev. Hammer Drop Rock Core Dia. Inspector: S. ...
 Date Started: 2-18-96 Pipe Size Boring Method Date Completed: 2-18-96

SOIL DESCRIPTION	STA. DEPTH	DEPTH	BORING & SAMPLING NOTES
Dark gray silty clay with gravel	0.0	0.0	Topsoil 0.05 m
Light gray silty clay with gravel	0.0	2.0	Compaction not encountered
Dark gray silty clay with gravel	0.0	5.0	After 4 hour soaking at 10.0 m depth
Light gray silty clay with gravel	10.0	10.0	
Light gray silty clay with gravel	15.0	15.0	

Datum: Hammer Wt. Hole Diameter Foreman
 Surf. Elev. Hammer Drop Rock Core Dia. Inspector: S. ...
 Date Started: 2-18-96 Pipe Size Boring Method Date Completed: 2-18-96

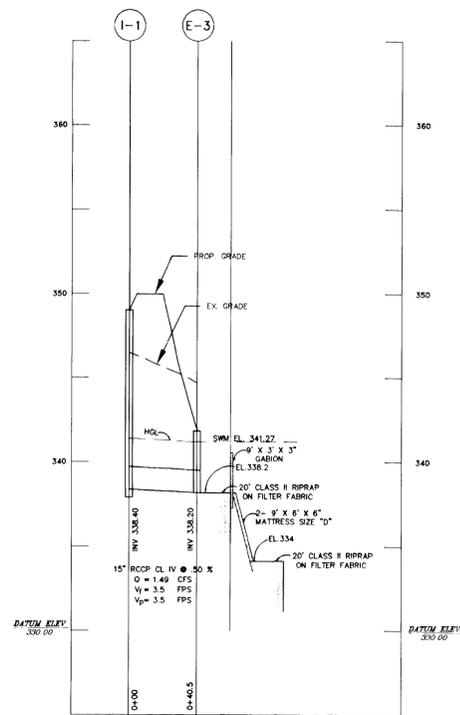
SOIL DESCRIPTION	STA. DEPTH	DEPTH	BORING & SAMPLING NOTES
Dark gray silty clay with gravel	0.0	0.0	Topsoil 0.05 m
Light gray silty clay with gravel	0.0	2.0	Compaction not encountered
Dark gray silty clay with gravel	0.0	5.0	After 4 hour soaking at 10.0 m depth
Light gray silty clay with gravel	10.0	10.0	
Light gray silty clay with gravel	15.0	15.0	

Datum: Hammer Wt. Hole Diameter Foreman
 Surf. Elev. Hammer Drop Rock Core Dia. Inspector: S. ...
 Date Started: 2-18-96 Pipe Size Boring Method Date Completed: 2-18-96

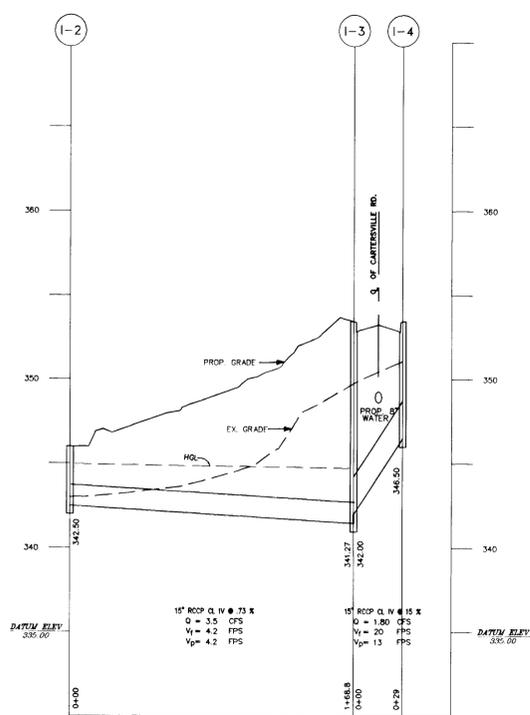
SOIL DESCRIPTION	STA. DEPTH	DEPTH	BORING & SAMPLING NOTES
Dark gray silty clay with gravel	0.0	0.0	Topsoil 0.05 m
Light gray silty clay with gravel	0.0	2.0	Compaction not encountered
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Light gray silty clay with gravel	10.0	10.0	
Light gray silty clay with gravel	15.0	15.0	

1786
 C. LONGMATT MS 05/24/1

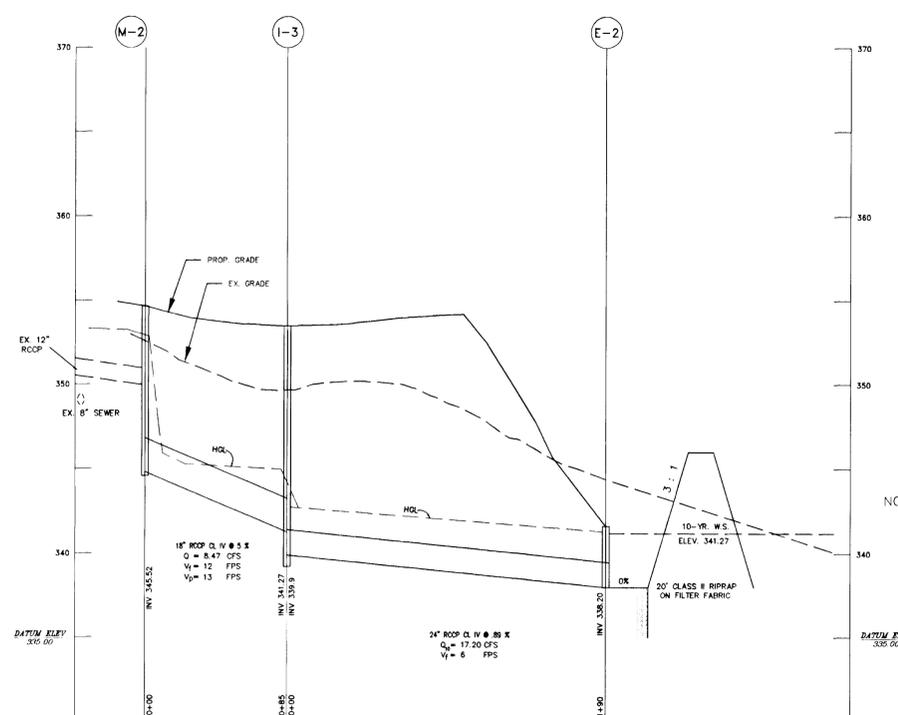
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DRAINAGE PROFILE
SCALE 1" = 50' HOR.
1" = 5' VERT.

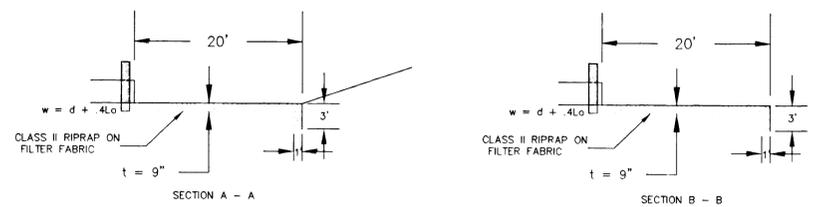
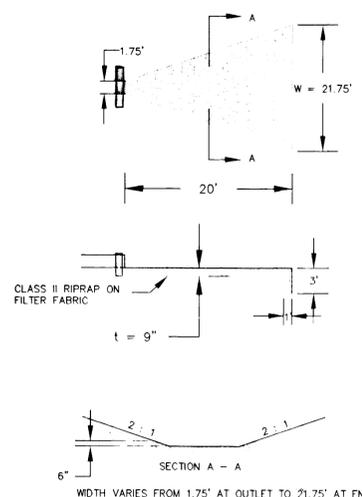
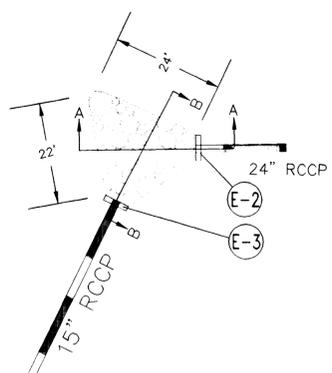


DRAINAGE PROFILE
SCALE 1" = 50' HOR.
1" = 5' VERT.



DRAINAGE PROFILE
SCALE 1" = 50' HOR.
1" = 5' VERT.

NOTE: TEST PIT EXISTING 12" PIPE BEFORE CONSTRUCTION FOR M-2 INVERT ELEVATION.



RIPRAP DETAIL AT E-2 & E-3
NOT TO SCALE

RIPRAP DETAIL E-1
NOT TO SCALE

STRUCTURE		SCHEDULE				
NUMBER	TYPE	INVERT IN	INVERT OUT	TOP EL.	REMARKS	LOCATION
I-1	A-5		338.40	348.52	HOWARD COUNTY SD 4.01 W=2'-6"	STA 11+34 OF CARTERSVILLE RD. 26.92' RIGHT
I-2	K-INLET		342.50	345.50	HOWARD COUNTY SD. 4.13	N166909.425, E414371.178
I-3	A-5	341.27(N) 342.00(S)	339.90	354.24	HOWARD COUNTY SD 4.01 W=2'-6"	STA 8+35 OF CARTERSVILLE RD. 14.92' RIGHT
I-4	A-5		346.50	354.24	HOWARD COUNTY SD 4.01 W=2'-6"	STA 8+35 OF CARTERSVILLE RD. 14.92' LEFT
M-1	STD MH				HOWARD COUNTY G. 5.04	N166885.422, E414285.523
M-2	STD MH	349.20	349.00	354.60	HOWARD COUNTY G. 5.04	STA 8+15 OF CARTERSVILLE RD. 15' LEFT
E-1	CONCRETE END SECTION	323.00		324.94	HOWARD COUNTY SD 5.21	N166889.357, E414277.295
E-2	TYPE A ENDWALL	402.00		405.51	HOWARD COUNTY SD 5.11	STA 10+83 OF CARTERSVILLE RD. 50' RIGHT
E-3	TYPE A ENDWALL	338.20		341.20	HOWARD COUNTY SD 5.11	STA 11+01 OF CARTERSVILLE RD. 48.50' RIGHT
S-1	SEE DETAIL	333.65	333.32	342.37		N166909.425, E414371.178



NO.	DATE	REVISION
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING		
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH		2/27/96 DATE
 CHIEF, DEVELOPMENT ENGINEERING DIVISION		2/27/96 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS		
 CHIEF, BUREAU OF HIGHWAYS		2-21-96 DATE
PROJECT: MATTHEWS WOODS LOTS 1 THRU 13		
LOCATION: TAX MAP 42, PARCEL 40, 341, & 318 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE: DRAINAGE PROFILES		
OWNER: MAPLE COLEMAN 9276 CARTERSVILLE RD. COLUMBIA, MD. 21046		 CONSULTING ENGINEERS 8307 MAIN ST., HISTORIC ELLICOTT CITY, MD. 21044 TEL. 410-485-0400 FAX. 410-485-0498
DEVELOPER: LAND DESIGN & DEVELOPMENT INC. 10805 HICKORY RIDGE RD. COLUMBIA, MD. 21044		
DESIGNED: JER	CHECKED: DTA	DATE: 7-12-95
DRAWN: AVG	APPROVED: MLL	SCALE: AS SHOWN
		PROJ. NO.: SHEET 6 OF 9

1786

SEQUENCE OF CONSTRUCTION

- 1) OBTAIN GRADING PERMIT.
- 2) INSTALL BLAZE ORANGE PROTECTION WIRE MESH TREE PROTECTION AS SHOWN.
- 3) INSTALL ALL SEDIMENT CONTROL MEASURES AS SHOWN.
- 4) CONSTRUCT ROADS, STORMWATER MANAGEMENT POND AND ALL UTILITIES.
- 5) DO NOT CONSTRUCT PIPE FROM M-2 TO I-3.
- 6) STABILIZE ALL DISTURBED AREAS.
- 7) CONSTRUCT PIPE FROM M-2 TO I-3. PLUG INLET OF 12" PVC WITH CONCRETE.
- 8) REMOVE ALL SEDIMENT CONTROL MEASURES WITH APPROVAL FROM HO. CO. SEDIMENT CONTROL INSPECTOR.

TRAP NO 1
 TYPE - SEDIMENT BASIN
 DRAINAGE AREA - 2.90 ACRES
 VOLUME REQUIRED - 5,227 C.F.
 VOLUME PROVIDED - 32,234 C.F.
 TOP ELEV. - 343
 CREST ELEV. - 341.30
 BOTTOM ELEV. - 333.65
 CLEAN OUT ELEV. - 337.41
 BOTTOM DIM. - VARIES
 SIDE SLOPE - 3:1

NOTE: CONSTRUCT ONLY THE LENGTH OF SEWER THAT CAN BE STABILIZED IN ONE (1) DAY.

LEGEND:

- BLAZE ORANGE TREE PROTECTION — W — W —
- SILT FENCE — S — S —
- DIKE — EA-2 —
- LIMIT OF DISTURBANCE - - - - -
- SUPER SILT FENCE — SS — SS —
- FOREST CONSERVATION SIGN — Δ



NOTE: HOUSE CONSTRUCTION FOR LOTS 11 & 12 SHOULD BE DELAYED UNTIL THE SOIL CONSERVATION DISTRICT APPROVAL.

NO.	DATE	REVISION
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING		
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH		2/27/96 DATE
 CHIEF, DEVELOPMENT ENGINEERING DIVISION		2/27/96 DATE
APPROVED: HOWARD COUNTY DEPARTMENT PUBLIC WORKS		
 CHIEF, BUREAU OF HIGHWAYS		2-21-96 DATE

Permanent Protective Signage

FOREST CONSERVATION AREA

UNAUTHORIZED DISTURBANCE OF VEGETATION IS PROHIBITED. VIOLATORS SUBJECT TO PENALTIES UNDER THE HOWARD COUNTY FOREST CONSERVATION ACT OF 1992.

TREES FOR YOUR FUTURE

15" MIN. (height)
 11" MIN. (width)

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for the Small Pond Construction, Soil Erosion and Sediment Control.

P. Engler 2-7-96
 U.S. Professional Engineer
 U.S. State of Maryland

These plans for Small Pond Construction, Soil Erosion and Sediment Control meet the requirements of the Howard County Soil Conservation District.

R. W. Ziel 2-7-96
 U.S. Professional Engineer
 U.S. State of Maryland

ENGINEER'S CERTIFICATE

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

[Signature] 7/18/95
 SIGNATURE OF ENGINEER DATE

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/we certify that all development and/or construction will be done according to these plans, and that any responsible 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 shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."

[Signature] 7-18-95
 BUILDER/DEVELOPER DATE

PROJECT: MATTHEWS WOODS LOTS 1 THRU 13	
LOCATION: TAX MAP 42, PARCEL 40, 341, & 318 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE: FOREST CONSERVATION PLAN SOILS MAP AND SEDIMENT CONTROL PLAN	
OWNER: MAPLE COLEMAN 9276 CARTERSVILLE RD. COLUMBIA, MD. 21046	CONSULTING ENGINEER: Voria Engineering Inc. 8307 MAIN ST., HISTORIC ELLICOTT CITY, MD. TEL: 410-465-0400 FAX: 410-465-0489
DEVELOPER: LAND DESIGN & DEVELOPMENT INC. 10805 HICKORY RIDGE RD. COLUMBIA, MD. 21044	DESIGN: MLL CHECKED: MLL APPROVED: MLL
DATE: 7-17-95 SCALE: 1"=50'	PROJ. NO.: SHEET 7 OF 9

1786

I. SEDIMENT CONTROL NOTES:

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, disking or other acceptable means before seeding, unless previously loosened.

Soil Amendments: In lieu of soil test recommendations, use...

- 1) Preferred - apply 2 tons per acre dolomitic limestone (82 lbs/1000 square feet) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding...

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...

TEMPORARY SEEDING NOTES

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

Seeding Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, 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 1 thru November 15, seed with 2 1/2 bushels per acre of annual ryegrass (3.2 lbs/1000 sq ft)...

STANDARD AND SPECIFICATION FOR VEGETATIVE STABILIZATION WITH SOD

- 1. Class of turfgrass sod shall be Maryland or Virginia state certified, or Maryland or Virginia state approved sod.

SITE PREPARATION

- 1. Fertilizer and lime application rates shall be determined by soil tests. Under unusual circumstances where there is insufficient time for a complete soil test, fertilizer and lime materials may be applied in amounts shown under b, below.

STANDARD SEDIMENT CONTROL NOTES:

- 1) A minimum of 48 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (313-1955)

General Notes

- 1) Refer to "1983 Maryland Standards and Specifications for soil erosion and sediment control for standard details and detailed specifications of each practice specified herein.

- 1. All dikes shall be compacted by earth-moving equipment. 2. All dikes shall have positive drainage to an outlet.

GENERAL NOTES FOR PONDS:

SITE PREPARATION: Area under the borrow areas, embankment, and structural works shall be cleared, grubbed and the top soil stripped to remove all trees, vegetation, roots or other objectionable material.

CONCRETE: Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specification for Construction and Materials, Section 608, Mix No. 3.

ROCK RIPRAP: All rock shall be dense, sound, and free from cracks, seams, and other defects conducive to accelerated weathering.

CARE OF WATER DURING CONSTRUCTION: All work on permanent structures shall be carried out in areas free from water.

EROSION AND SEDIMENT CONTROL: Construction operation will be carried out in such a manner that erosion will be controlled and water and air pollution minimized.

STABILIZATION: All borrow areas shall be graded to provide proper drainage and left in a slightly condition.

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All connection shall use a rubber or neoprene gasket when joining pipe sections. The end of each pipe shall be re-rolled on adequate number of corrugations to accommodate the bond width.

Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

Backfilling shall conform to "Structure Backfill". Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

REINFORCED CONCRETE PIPE: materials - Reinforced concrete pipe shall have bell and spigot joints with rubber gasket and shall equal or exceed ASTM Designation C-361.

Bedding - All reinforced concrete pipe conduits shall be laid on concrete bedding. The bedding shall consist of high strength concrete placed under the pipe and on the sides of the pipe at least 10% of its outside diameter with a minimum thickness of 3 inches, or as shown on the drawings.

Laying pipe - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material.

Backfilling shall conform to "Structure Backfill". Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

POLYVINYL CHLORIDE (PVC) PIPE: materials - PVC pipe shall be PVC-1120 or PVC-1220 conforming to ASTM D-1785 or ASTM D-2241.

Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

CONCRETE: Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specification for Construction and Materials, Section 608, Mix No. 3.

ROCK RIPRAP: All rock shall be dense, sound, and free from cracks, seams, and other defects conducive to accelerated weathering.

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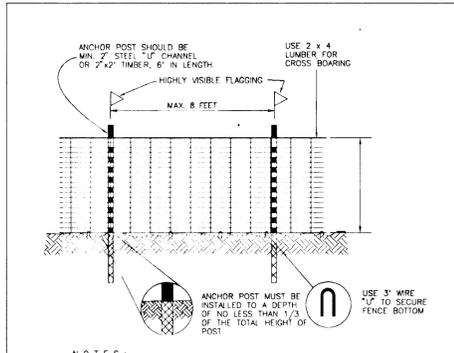
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CONSTRUCTION NOTES FOR FABRICATION SILT FENCE: 1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.

CONSTRUCTION SPECIFICATION: 1. STONE SIZE - USE OF STONE OR RECYCLED CONCRETE EQUIVALENT. 2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESISTANCE LOT, WHERE A 30' MINIMUM LENGTH WOULD APPLY).

CONSTRUCTION SPECIFICATION: 3. THICKNESS - NOT LESS THAN SIX (6) INCHES. 4. WIDTH - TEN (10) FEET MINIMUM, BUT LESS THAN THE FULL WIDTH AT POINTS WHERE BENCHES OR FORESS DITCHES.

CONSTRUCTION SPECIFICATION: 5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE OR RECYCLED CONCRETE EQUIVALENT. 6. SURFACE WATER - SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE FILTERED BY THE FILTER CLOTH.

CONSTRUCTION SPECIFICATION: 7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. 8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE INTO PUBLIC RIGHTS-OF-WAY WHEN IS REQUIRED.

CONSTRUCTION SPECIFICATION: 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION SPECIFICATION: 10. THE POLES DO NOT NEED TO SET IN CONCRETE. 11. DOWN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.

CONSTRUCTION SPECIFICATION: 12. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT THE TOP AND MID SECTION.

CONSTRUCTION SPECIFICATION: 13. FILTER CLOTH SHALL BE FASTENED TO A MINIMUM OF 1" INTO THE GROUND. 14. STONE TO BE 2 INCH STONE OR RECYCLED CONCRETE EQUIVALENT IN LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PROTECTED WITH 2x4 WOOD CONSTRUCTION CHANNELS.

CONSTRUCTION SPECIFICATION: 15. 30" GAP TO BE 4 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSURE AND APPROVED EQUIPMENT CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.

CONSTRUCTION SPECIFICATION: 16. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION SPECIFICATION: 17. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION SPECIFICATION: 18. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

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CONSTRUCTION SPECIFICATION: 24. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION SPECIFICATION: 25. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

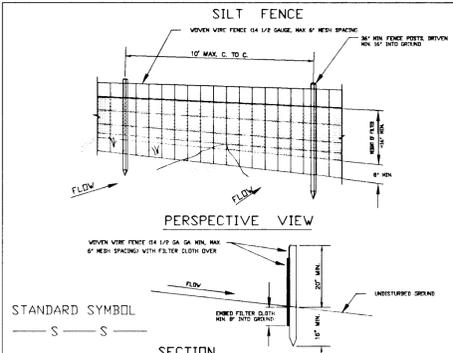
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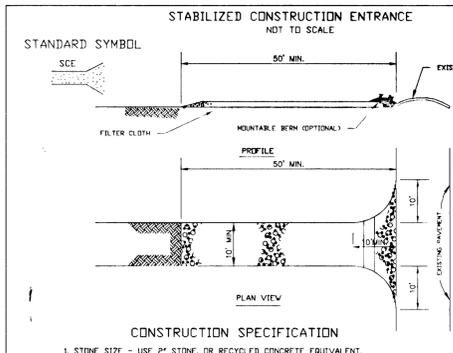
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CONSTRUCTION SPECIFICATION: 28. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION SPECIFICATION: 29. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION SPECIFICATION: 30. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



CONSTRUCTION SPECIFICATION: 1. STONE SIZE - USE OF STONE OR RECYCLED CONCRETE EQUIVALENT. 2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESISTANCE LOT, WHERE A 30' MINIMUM LENGTH WOULD APPLY).

CONSTRUCTION SPECIFICATION: 3. THICKNESS - NOT LESS THAN SIX (6) INCHES. 4. WIDTH - TEN (10) FEET MINIMUM, BUT LESS THAN THE FULL WIDTH AT POINTS WHERE BENCHES OR FORESS DITCHES.

CONSTRUCTION SPECIFICATION: 5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE OR RECYCLED CONCRETE EQUIVALENT. 6. SURFACE WATER - SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE FILTERED BY THE FILTER CLOTH.

CONSTRUCTION SPECIFICATION: 7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY.

CONSTRUCTION SPECIFICATION: 8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE INTO PUBLIC RIGHTS-OF-WAY WHEN IS REQUIRED.

CONSTRUCTION SPECIFICATION: 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION SPECIFICATION: 10. THE POLES DO NOT NEED TO SET IN CONCRETE. 11. DOWN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.

CONSTRUCTION SPECIFICATION: 12. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT THE TOP AND MID SECTION.

CONSTRUCTION SPECIFICATION: 13. FILTER CLOTH SHALL BE FASTENED TO A MINIMUM OF 1" INTO THE GROUND. 14. STONE TO BE 2 INCH STONE OR RECYCLED CONCRETE EQUIVALENT IN LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PROTECTED WITH 2x4 WOOD CONSTRUCTION CHANNELS.

CONSTRUCTION SPECIFICATION: 15. 30" GAP TO BE 4 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSURE AND APPROVED EQUIPMENT CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.

CONSTRUCTION SPECIFICATION: 16. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION SPECIFICATION: 17. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION SPECIFICATION: 18. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION SPECIFICATION: 19. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION SPECIFICATION: 20. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION SPECIFICATION: 21. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION SPECIFICATION: 22. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION SPECIFICATION: 23. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION SPECIFICATION: 24. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION SPECIFICATION: 25. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

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1786

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for the small pond construction, soil erosion and sediment control.

DEVELOPER'S CERTIFICATE: I certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a certificate of attendance at a department of natural resources approved training program for the control of sediment and erosion before beginning the project.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. Jim Swartzman, 2/27/96. Chief, Division of Land Development and Research.

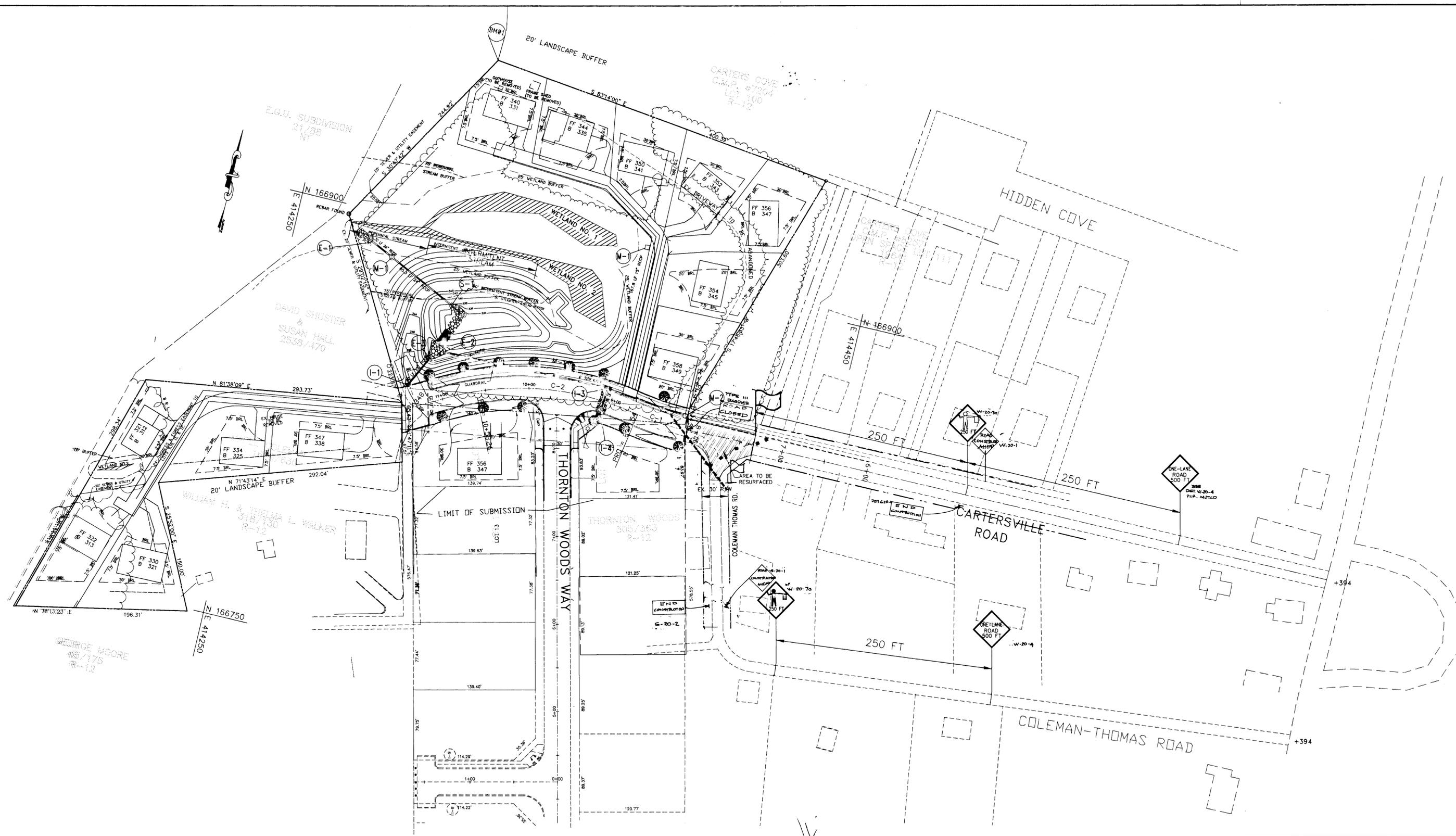
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. Andrew M. Quake, 2-21-96. Chief, Bureau of Highways.

NO. DATE REVISION. PROJECT: MATTHEWS WOODS LOTS 1 THRU 13. LOCATION: TAX MAP 34 PARCEL B4 & 134 6TH ELEC. DISTRICT, HOWARD COUNTY, MD. TITLE: SEDIMENT CONTROL NOTES & DETAILS GENERAL NOTES FOR PONDS.

OWNER: MAPLE COLEMAN 9276 CARTERSVILLE RD. COLUMBIA, MD. 21046. DEVELOPER: LAND DESIGN & DEVELOPMENT INC. 10805 HICKORY RIDGE RD. COLUMBIA, MD. 21044.

DESIGNED: CHECKED: DATE: 7-17-95 PROJ. No. DRAWN: APPROVED: SCALE: AS SHOWN SHEET 8 OF 9.

F-96-18



PLAN
SCALE 1" = 50'

- PHASE I CONSTRUCTION (RESURFACING)**
- INSTALL ALL TRAFFIC CONTROL SIGNS AND CHANNELIZING DEVICES SHOWN ON THIS PLAN.
- PHASE II CONSTRUCTION (CONSTRUCTION OF CARTERSVILLE ROAD EXTENSION)**
- REMOVE "ONE LANE ROAD 500 FT" SIGN.
 - REMOVE FLAGMAN SIGNS (W-20-7) AND CHANNELIZING DEVICES. ALL OTHER TRAFFIC CONTROL SIGNS WILL REMAIN.
 - REMOVE ALL SIGNS AFTER COMPLETION OF CONSTRUCTION.

- NOTES:**
- PROVIDE A 12-FT. WIDE ONE-WAY TRAFFIC LANE AT THE INTERSECTION OF CARTERSVILLE ROAD AND COLEMAN THOMAS ROAD AT ALL TIME DURING RESURFACING.
 - AFTER RESURFACING ONE SIDE, REVERSE CHANNELIZING DEVICES.
 - DURING CONSTRUCTION OF CARTERSVILLE ROAD, MAINTAIN TRAFFIC TO AND FROM EXISTING RESIDENCE I.E. WILLIAM & THELMA WALKER PROPERTY, AND SHUSTER & HALL PROPERTY. THIS CAN BE ACCOMPLISHED BY GRADING HALF OF CARTERSVILLE ROAD FIRST AND THE OTHER HALF NEXT.

- LEGEND:**
- FLAGGER
 - CHANNELIZING DEVICES

NO.	DATE	REVISION
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING		
1	2/27/96	DATE
APPROVED: HOWARD COUNTY DEPARTMENT PUBLIC WORKS		
1	2-21-96	DATE

PROJECT : MATTHEWS WOODS LOTS 1 THRU 13	
LOCATION : TAX MAP 42 , PARCEL 40, 341 & 318 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE : TRAFFIC CONTROL PLAN	
OWNER : MAPLE COLEMAN 9276 CARTERSVILLE RD. COLUMBIA, MD. 21046	DEVELOPER : LAND DESIGN & DEVELOPMENT INC. 10805 HICKORY RIDGE RD. COLUMBIA, MD. 21044
WILLIAM A. MATTHEWS 9272 CARTERSVILLE RD. COLUMBIA, MD. 21046	CONSTRUCTING ENGINEER: 8307 MAIN ST., HISTORIC ELLICOTT CITY, MD. TEL: 410-485-0400 FAX: 410-485-0489
DESIGN: MLL	DATE: 10-04-95
DRAWN: GUS	APPROVED: [Signature]
SCALE: 1" = 50' SHEET 8 OF 9	

1786