

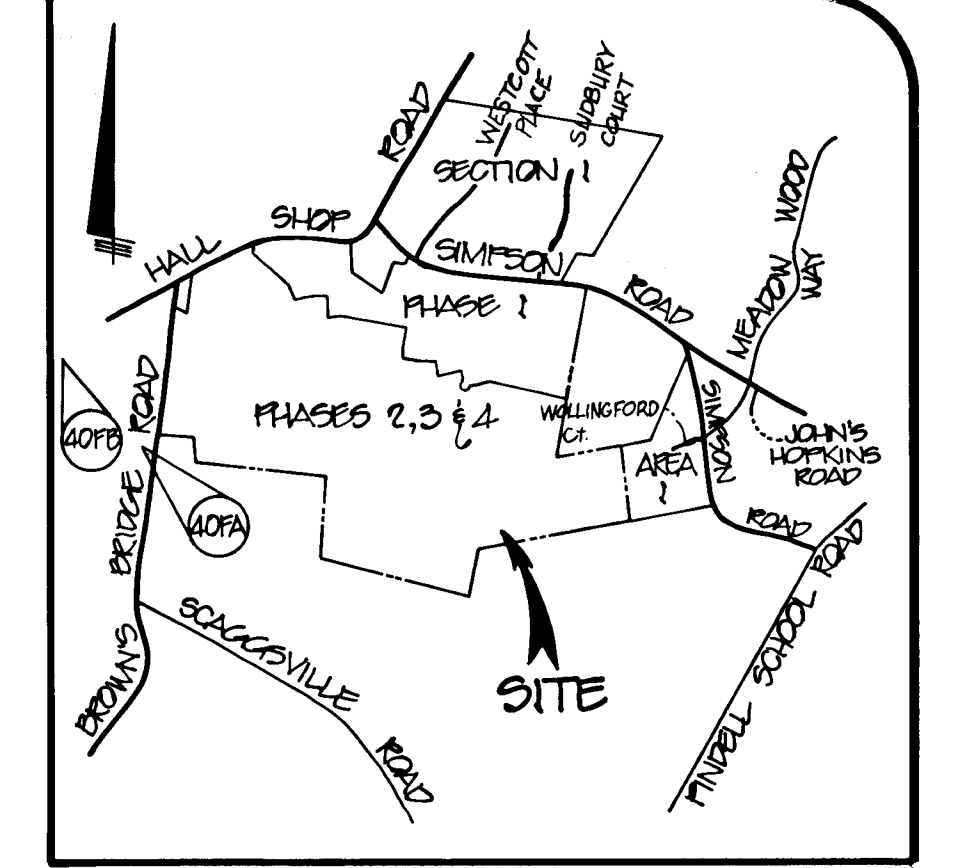
ROADS, STORM DRAIN & GRADING

ASHLEIGH KNOLLS

PHASE I

ELECTION DISTRICT NO. 5

HOWARD COUNTY, MARYLAND

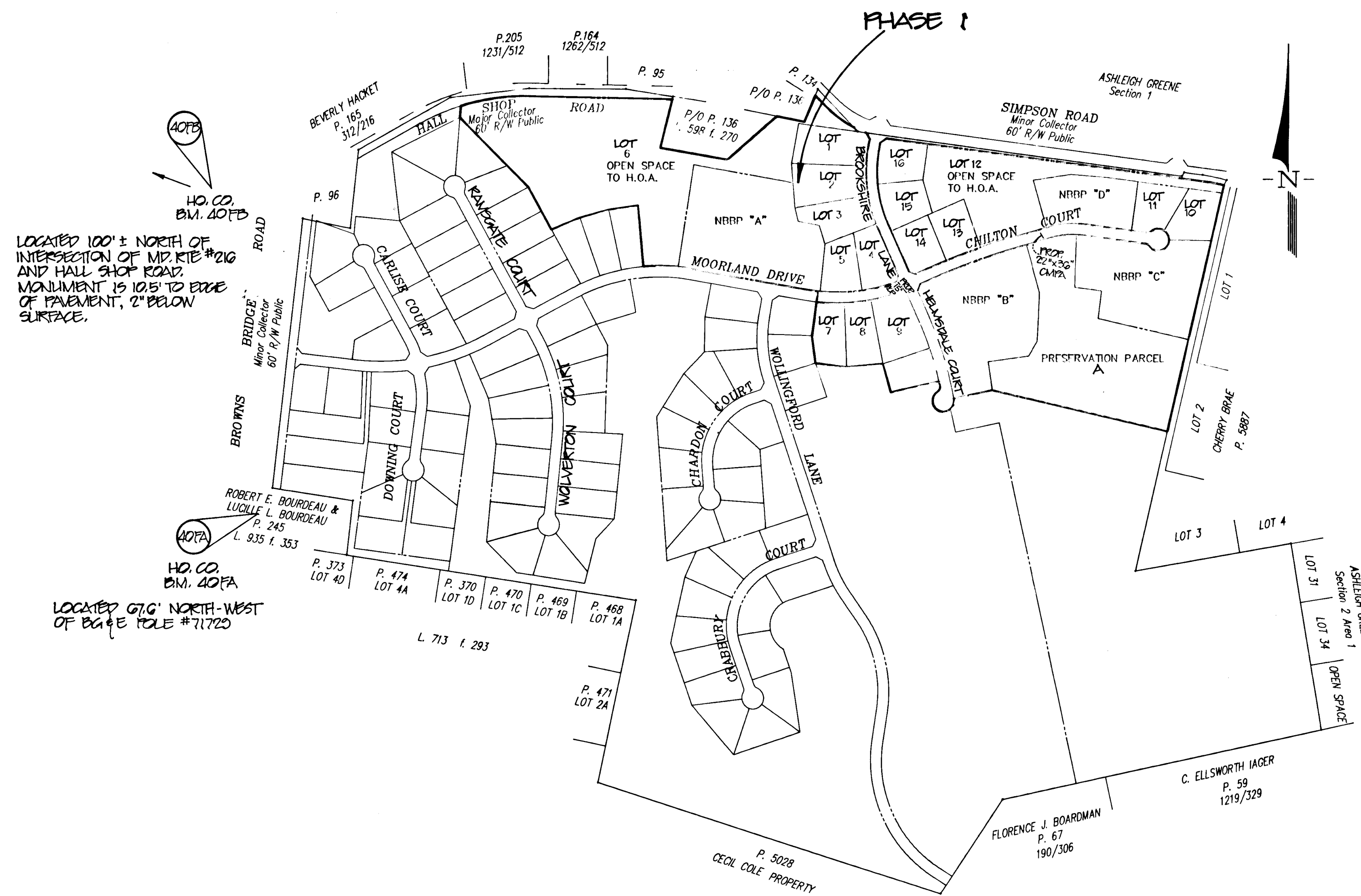


VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

1. PROJECT BACKGROUND:
TAX MAPS: 41 P/O PARCEL 137 AND 174
ZONING: R-R
ELECTION DISTRICT: 5TH
TOTAL TRACT AREA: 222.05 ± AC.
PHASE I AREA: 66.0757 AC.
NUMBER OF PROPOSED LOTS (PHASE I): 10 - BUILDABLE LOTS 14
PRELIMINARY EQUIVALENT SKETCH PLAN: APPROVED MARCH 11, 1993 SP-93-04
2. SUBJECT PROPERTY ZONED R-R PER 9-18-92 COMPREHENSIVE ZONING PLAN.
3. SEE DEPARTMENT OF PLANNING AND ZONING FILE NO. 'S 5-88-80, P-89-025, SP-93-04, WP-93-68.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, 1990 AMENDMENTS.
5. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
6. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE DRAWINGS.
7. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE DRAWINGS:

MISS UTILITY	1-800-257-7777
BELL TELEPHONE SYSTEM	393-3649
LONG DISTANCE CABLE DIVISION	393-3553 OR 3554
BALTIMORE GAS AND ELECTRIC CO.	539-8000
HOWARD COUNTY BUREAU OF UTILITIES	313-4900
HOWARD COUNTY CONSTRUCTION	INSPECTION DIVISION 313-1880
COMMENCEMENT OF WORK)	
COLONIAL PIPELINE	795-1390
8. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
9. STORM DRAIN TRENCHES WITHIN ROAD RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E. STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, 1990 AMENDMENTS.
10. INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 1988 EDITION. ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
11. ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM.
12. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
13. PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
14. TOPO TAKEN FROM AERIAL SURVEY DATED 2/17/88 BY DEVELOPMENT CONSULTANTS GROUP.
15. ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS "C" AS SHOWN IN FIGURE 11.4, VOLUME 1 OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.
16. THE PAVEMENT DETAILS SHOWN ON THESE PLANS REFLECT THE HOWARD COUNTY MINIMUM STANDARD PAVEMENT SECTIONS AND ARE NOT BASED ON SITE SPECIFIC CONDITIONS. PRIOR TO PAVING, THE FINAL PAVEMENT SECTIONS SHALL BE DETERMINED BY A QUALIFIED GEOTECHNICAL ENGINEER BASED ON IN-SITU TESTING OF THE FINISHED SUBGRADE. ANY PAVEMENT SECTIONS DETERMINED BY THE GEOTECHNICAL ENGINEER THAT IS LESS THAN THE HOWARD COUNTY MINIMUM STANDARD SHALL FIRST BE APPROVED BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. THE TESTING AND GEOTECHNICAL ENGINEER SHALL BE FURNISHED BY THE OWNER.
17. FLOODPLAIN INFORMATION PREPARED BY MILDENBERG, MOCHI & ASSOCIATES, INC., NOVEMBER 1992. APPROVED MARCH 11, 1993 BY HOWARD COUNTY.
18. WETLAND INFORMATION PREPARED BY ENVIRONMENTAL SYSTEMS ANALYSIS INC., OCTOBER 1992. APPROVED MARCH 11, 1993 BY HOWARD COUNTY.
19. TRAFFIC STUDY PREPARED BY LEE CUNNINGHAM & ASSOCIATES, INC., DECEMBER 1992. APPROVED MARCH 11, 1993 BY HOWARD COUNTY.
20. WATER AND SEWER SERVICE SHALL BE PRIVATE WELL & SEPTIC.
21. THIS PROJECT CONFORMS TO THE LATEST EDITION OF THE AMERICANS WITH DISABILITIES ACT.



LOCATION MAP

SCALE: 1" = 400'

22. ALL DRIVEWAYS EXCEPT FOR LOT 10 SHALL HAVE A 12" CMP DRIVEWAY CULVERT, PLACE AS SHOWN IN HOWARD COUNTY STANDARD DETAIL RG.06, UNLESS OTHERWISE INDICATED ON THE GRADING/SEWERMENT CONTROL PLAN, SHEETS 5 & 6.
23. STREET LIGHTS SHOWN TYPICALLY SHALL BE 150 WATT HPS VAPOR FIXTURE ON 25' GALVANIZED STEEL POLE.
24. THE PAYMENT OF FEE-IN-LIEV OF PROVIDING STORMWATER MANAGEMENT FOR THE ROAD APPROVED JULY 19, 1993. THE LOTS WERE DETERMINED TO BE EXEMPT FROM STORMWATER MANAGEMENT REQUIREMENT.

BENCH MARK	
HOWARD CO. #40FB	N 5484780.3198 E 1326000.8070 ELEV. = 505.297
HOWARD CO. #40FA	N 548106.8658 E 1328421.4020 ELEV. = 497.648

LOCATED 100' ± NORTH OF INTERSECTION OF MD. RTE #216 AND HALL SHOP ROAD. MONUMENT IS 105' TO EDGE OF PAVEMENT, 2" BELOW SURFACE.

LOCATED 716' NORTH-WEST OF B&E POLE #71722

APPROVED:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Andrew M. Dwyer 8/12/93
CHIEF, LAND DEVELOPMENT DIVISION DATE

Andrew M. Dwyer 8-11-93
CHIEF, BUREAU OF HIGHWAYS DATE

Paul J. Spon 8/13/93
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED:
HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Richard Blood 8/12/93
CHIEF, DIVISION OF LAND DEVELOPMENT AND REZONING DATE

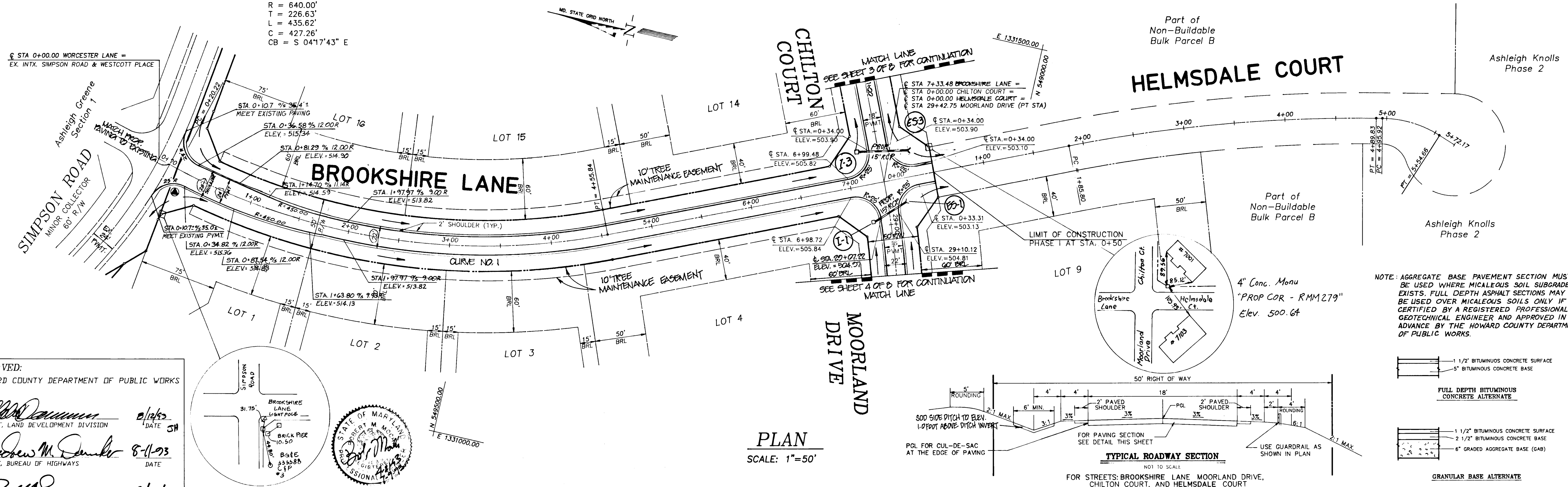
OWNER/DEVELOPER
WINCHESTER HOMES, INC.
Potomac Division
818 West Diamond Avenue, Suite 300
Gaithersburg, Maryland 20878
(301)670-1010
Attn: Mr. Ralph Bice, III

ENGINEER
MILDENBERG, MOCHI & ASSOCIATES, INC.
3300 North Ridge Road, Suite 235
Ellicott City, Maryland 21043
(410)461-0078
Attn: Mr. Robert M. Mochi, P.E.

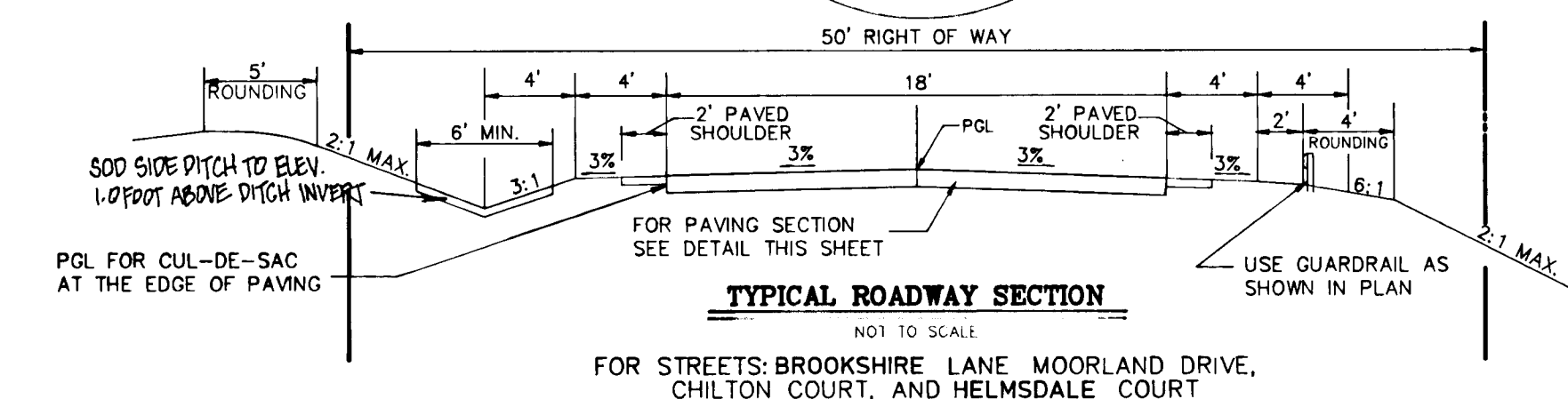


<p>PROJECT: 89027.05</p> <p>DATE: APRIL '93</p> <p>DESCRIPTION: engineering</p> <p>TIP/VSL: TYP</p> <p>SCALE: AS SHOWN</p> <p>APPROVAL: R.M.</p>	<p>ADDED NOTE 24: REVISED VICINITY MAP PER DRW 7/11/93</p> <p>1. REVISED PER DTC & DPA REVIEW COMMENTS 7/11/93</p> <p>2. 1ST SUBMITTAL TO HO CO DTC 4/2/93</p>
<p>PHASE I</p> <p>ASHLEIGH KNOLLS</p> <p>ELECTION DISTRICT No. 5</p> <p>HOWARD COUNTY, MARYLAND</p> <p>COVER SHEET</p>	
<p>MILDENBERG, MOCHI & ASSOCIATES, INC.</p> <p>ENGINEERS & SURVEYORS - PLANNERS</p> <p>3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350 (410) 461-0078 D.C. Metro: (301) 621-5768 Fax: (410) 750-6340</p>	

**CURVE NO. 1
CURVE DATA**
 STA. 0+20.22 TO 4+55.84
 $\Delta = 38^{\circ}59'54''$
 $R = 640.00'$
 $T = 226.63'$
 $L = 435.62'$
 $C = 427.26'$
 $CB = S 04^{\circ}17'43'' E$



PLAN
SCALE: 1"=50'



NOTE: AGGREGATE BASE PAVEMENT SECTION MUST BE USED WHERE MICALEOUS SOIL SUBGRADE EXISTS. FULL DEPTH ASPHALT SECTIONS MAY BE USED OVER MICALEOUS SOILS ONLY IF CERTIFIED BY A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER AND APPROVED IN ADVANCE BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

APPROVED:
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Chief, Land Development Division
 Chief, Bureau of Highways
 Chief, Bureau of Engineering

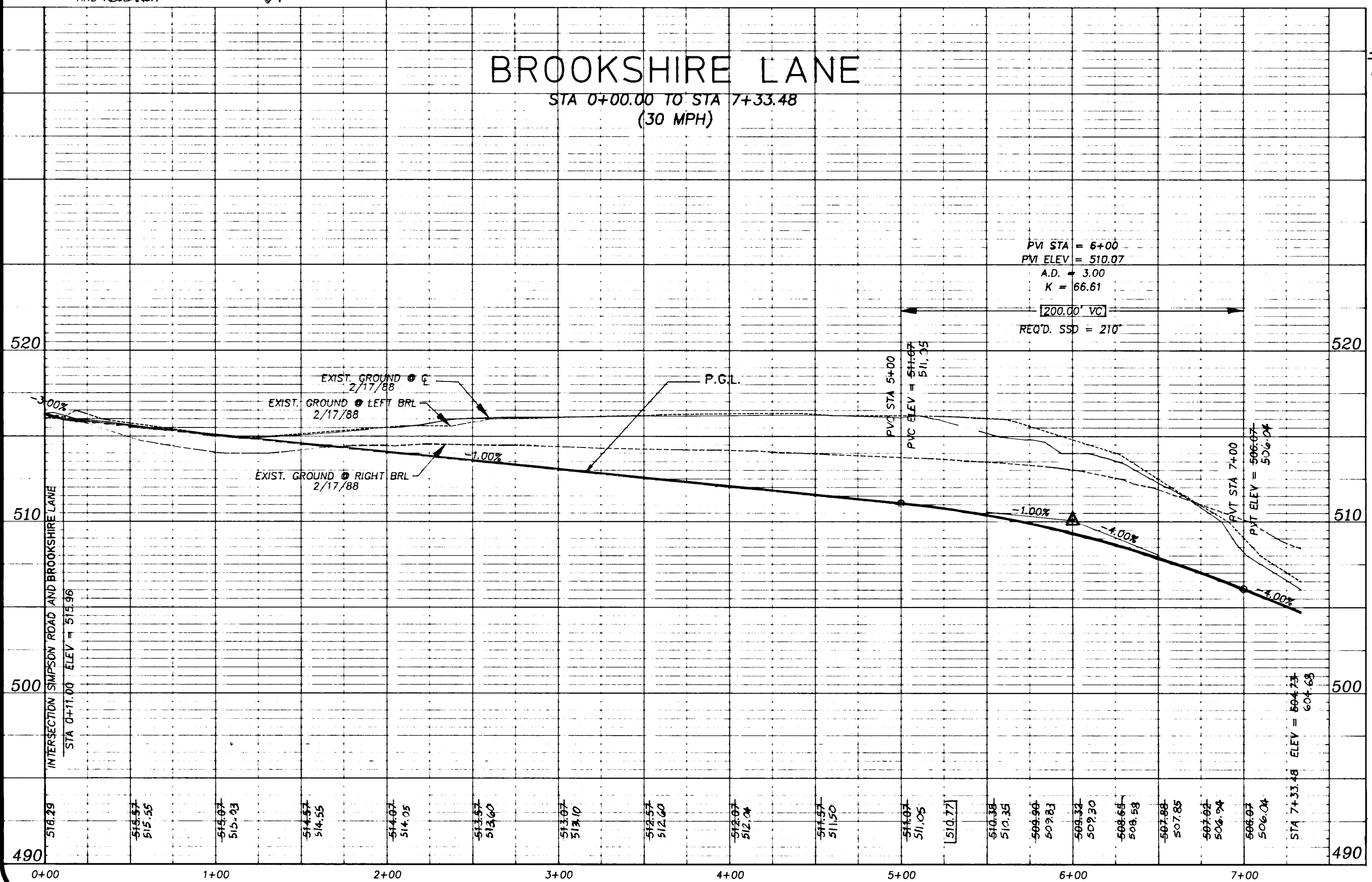
APPROVED:
 HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Chief, Division of Land Development and Research

OWNER/DEVELOPER:
 WINCHESTER HOMES, INC.
 Potomac Division
 818 West Diamond Avenue, Suite 300
 Gaithersburg, Maryland 20878
 Attn: Mr. Ralph Bice, III

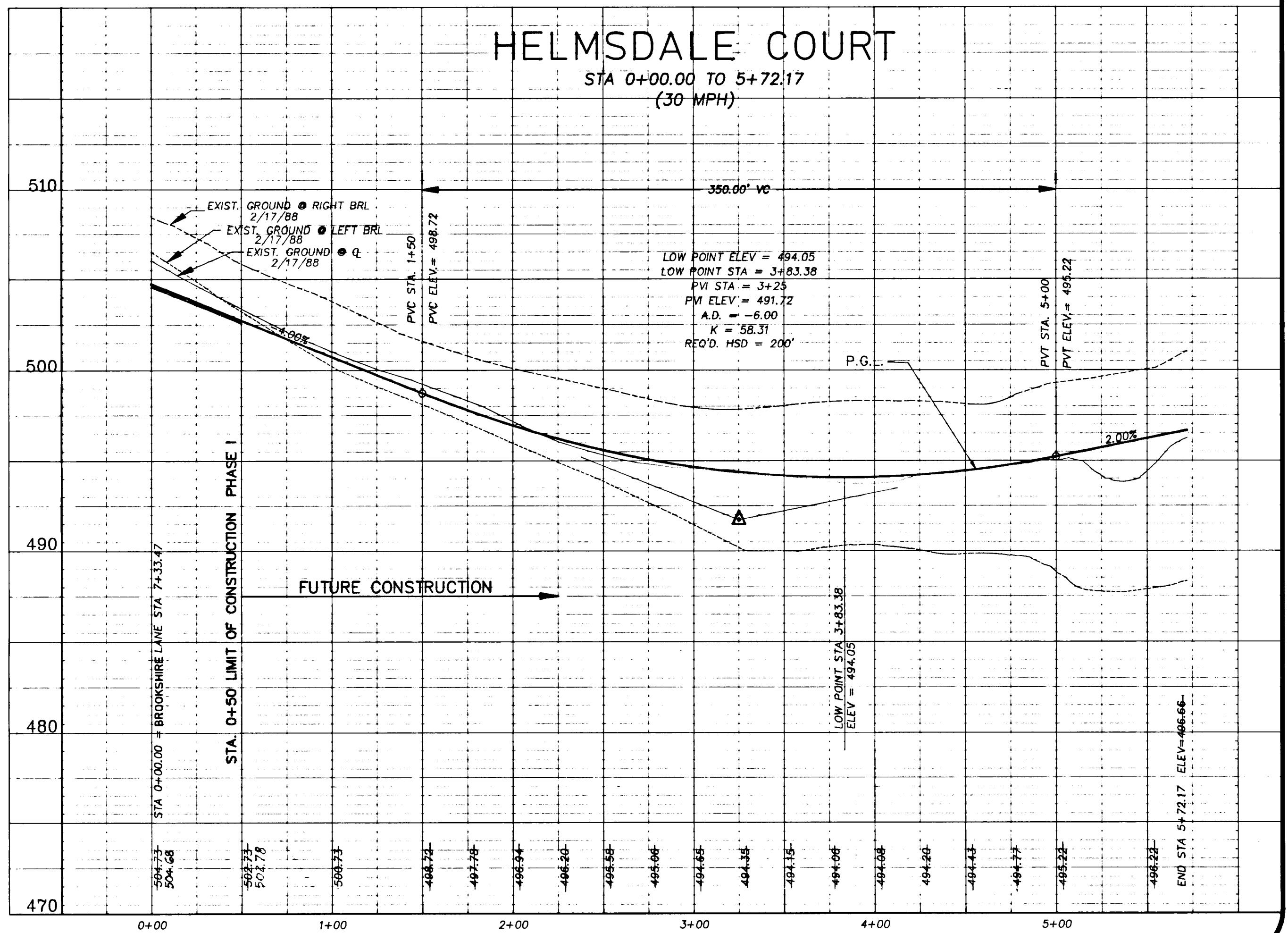
ENGINEER:
 MILDENBERG, MOCHI & ASSOCIATES, INC.
 3300 North Ridge Road, Suite 235
 Ellicott City, Maryland 21043
 (410) 461-0078
 Attn: Mr. Robert M. Mochi, P.E.

BROOKSHIRE LANE
 STA 0+00.00 TO STA 7+33.48
 (30 MPH)

PROFILE
 HORIZ: 1" = 50'
 VERT: 1" = 5'



HELMSDALE COURT
 STA 0+00.00 TO 5+72.17
 (30 MPH)



16669

AS BUILT 2/14/96 F.93.116

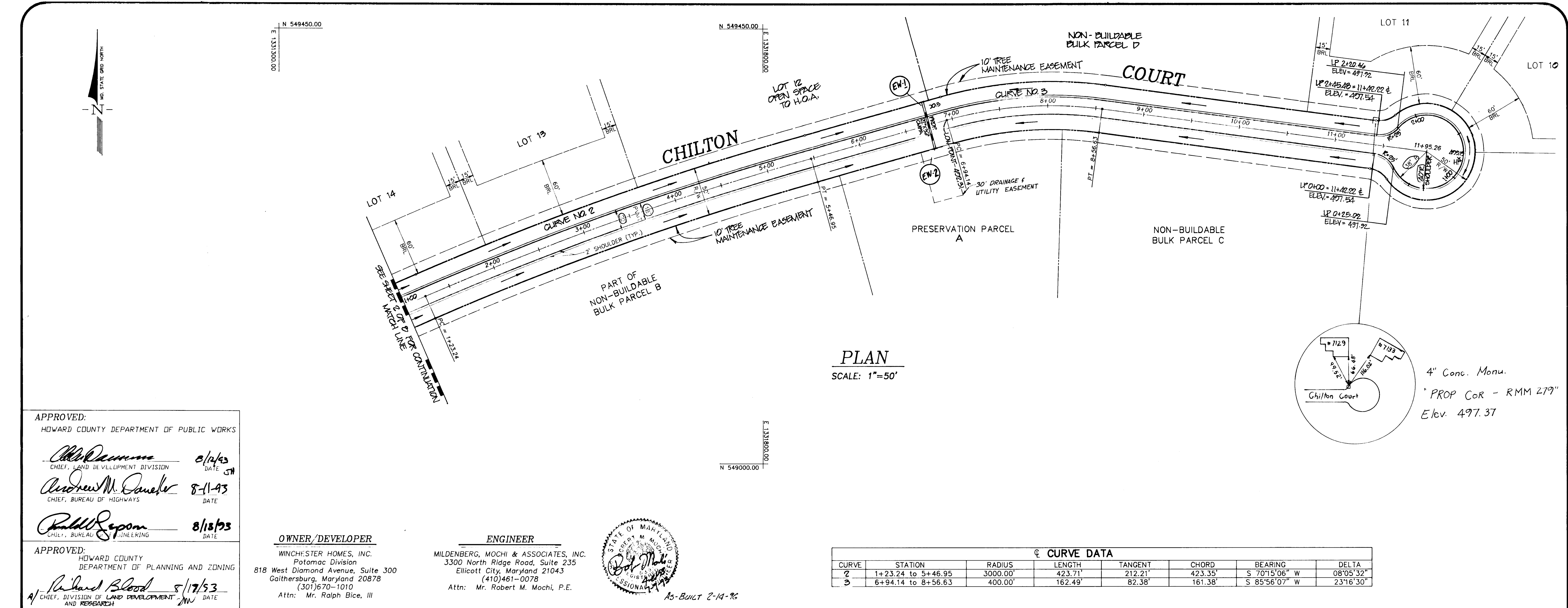
Project: 89027.05
 Date: APRIL '93
 Illustration: TJP
 TJP
 scale: 1" = 50'
 approval: RMM

7/7/93
 4/21/93
 REVISION PER REV. BY REV. REVISION COMMENTS
 1 1st SUBMITTAL TO HO. CO. D-2

PHASE 1
ASHLEIGH KNOLLS
 HOWARD COUNTY, MARYLAND
 ELECTION DISTRICT No. 5
BROOKSHIRE LANE & HELMSDALE COURT-PLAN & PROFILE

MILDENBERG, MOCHI & ASSOCIATES, INC.
 ENGINEERS - ARCHITECTS - PLANNERS
 3300 North Ridge Road, Suite 235 Ellicott City, Maryland, 21043-3550
 (410) 461-0078 D.C. Metro: (301) 621-5768 Fax: (410) 750-6340

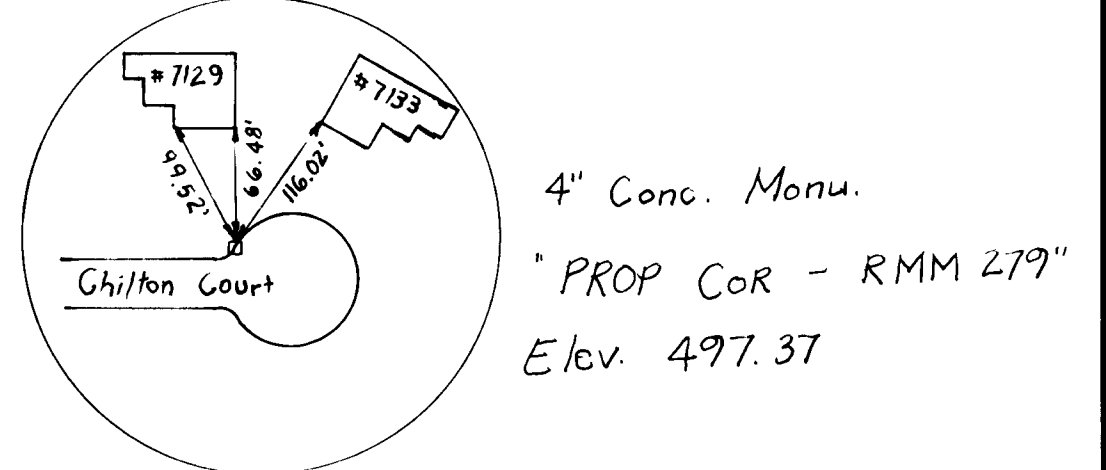
1669



PLAN
SCALE: 1"=50'

¢ CURVE DATA

CURVE	STATION	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
2	1+23.24 to 5+46.95	3000.00'	423.71'	212.21'	423.35'	S 70°15'06" W	08°05'32"
3	6+94.14 to 8+56.63	400.00'	162.49'	82.38'	161.38'	S 85°56'07" W	23°16'30"



APPROVED:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Robert M. Mochi 8/14/93
CHIEF, LAND DEVELOPMENT DIVISION DATE

Andrew M. Daneker 8-11-93
CHIEF, BUREAU OF HIGHWAYS DATE

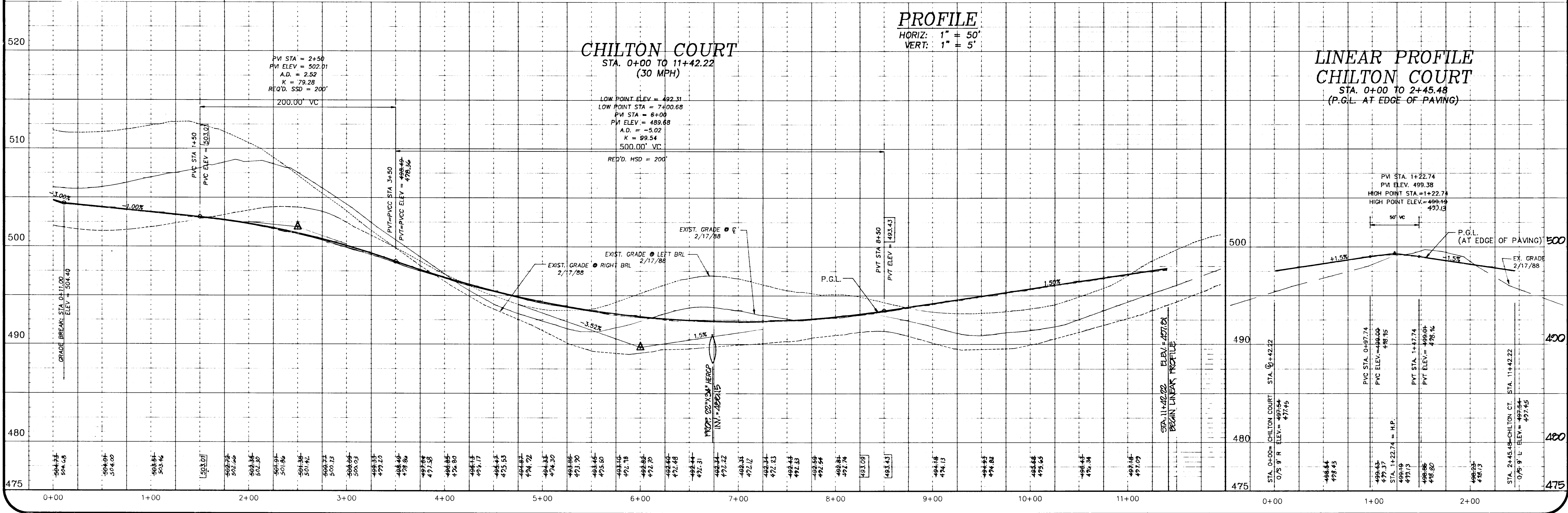
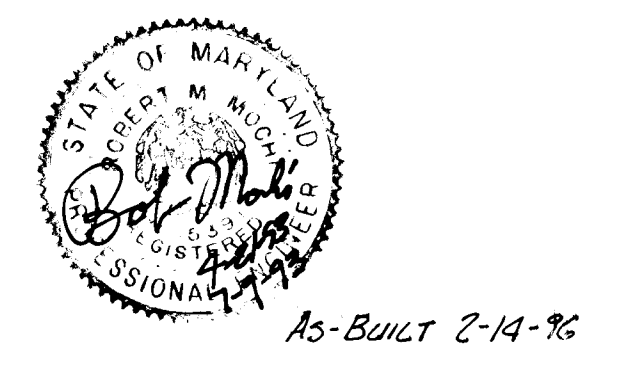
Paul W. Sporn 8/18/93
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED:
HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Richard Blood 5/17/93
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

OWNER/DEVELOPER
WINCHESTER HOMES, INC.
Potomac Division
818 West Diamond Avenue, Suite 300
Gaithersburg, Maryland 20878
(301)670-1010
Attn: Mr. Ralph Bice, III

ENGINEER
MILDENBERG, MOCHI & ASSOCIATES, INC.
3300 North Ridge Road, Suite 235
Ellicott City, Maryland 21043
(410)461-0078
Attn: Mr. Robert M. Mochi, P.E.



AS BUILT 2/14/96 F.93116

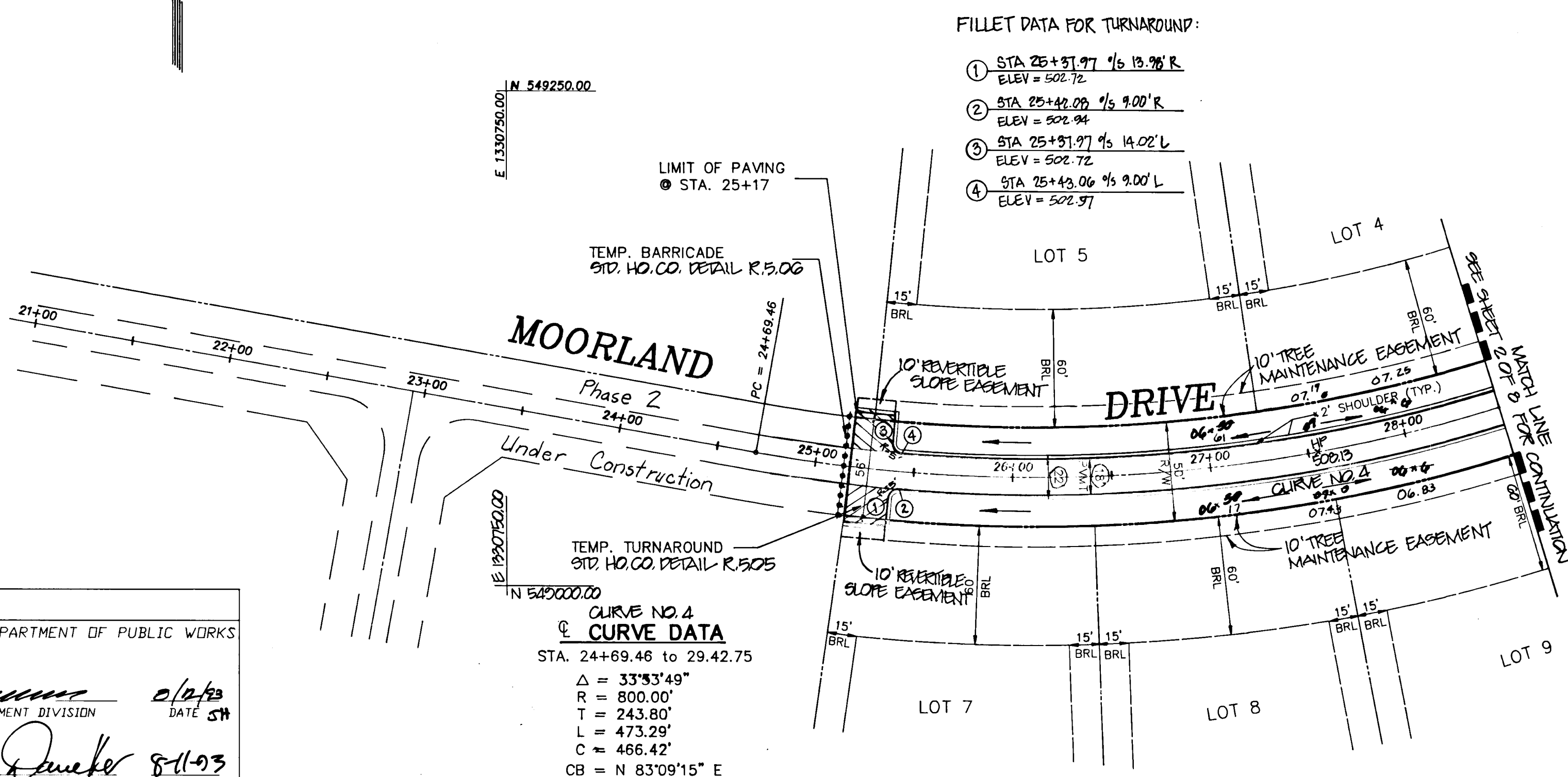
Project	89027.05	Date	APRIL '93
Illustration	TIP	Engineering	
Scale	1" = 50'	Approval	

Revised	1	2/7/98	DATE
By	0	4/6/98	DATE
Description	REVIEWED PER MTC & PAV REVIEW COMMENTS		
Revisions	1.01 SUBMITTAL TO HD CO. P22		

PHASE 1
ASHLEIGH KNOLLS
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 5
CHILTON COURT - PLAN & PROFILE

MILDENBERG, MOCHI & ASSOCIATES, INC.
ENGINEERS • SURVEYORS • PLANNERS

3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
(410) 461-0078 D.C. Metro: (301) 621-5166 Fax: (410) 790-6340

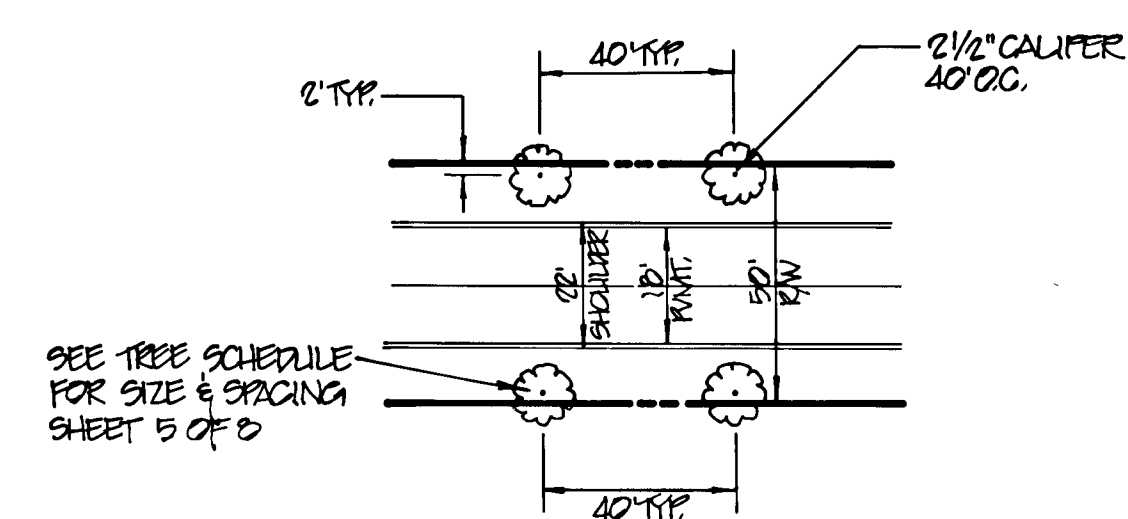


FILLET DATA FOR TURNAROUND:

- ① STA 25+51.97 1/6 13.96' R
ELEV = 502.72
- ② STA 25+44.09 1/6 9.00' R
ELEV = 502.94
- ③ STA 25+51.97 1/6 14.02' L
ELEV = 502.72
- ④ STA 25+43.06 1/6 9.00' L
ELEV = 502.97

TEMP. TURNAROUND
91D. HO. CO. DETAIL R.505

CURVE NO. 4
CURVE DATA
STA. 24+69.46 to 29+42.75
Δ = 33°33'49"
R = 800.00'
T = 243.80'
L = 473.29'
C = 466.42'
CB = N 83°09'15" E



TREE PLANTING DETAIL

MEDIUM TREES - 2 1/2" CALIPER OR LARGER
NOT TO SCALE

NOTE: FOR SMALL TREES PLANTED ALONG CHILTON COURT
PLANT TREES WITH IN RIGHT-OF-WAY AND TREE PLANTING
EASEMENT AT 40' SPACINGS AS INDICATED ON PLAN
SHEETS 5 & 6.
NO TREE SHALL BE PLANTED WITHIN 8 FEET OF THE OUTSIDE
EDGE OF SHOULDER.

APPROVED:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 8/12/93
CHIEF, LAND DEVELOPMENT DIVISION
[Signature] 8/11/93
CHIEF, BUREAU OF HIGHWAYS
[Signature] 8/13/93
CHIEF, BUREAU OF ENGINEERING

APPROVED:
HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 8/13/93
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

OWNER/DEVELOPER
WINCHESTER HOMES, INC.
Potomac Division
818 West Diamond Avenue, Suite 300
Gaithersburg, Maryland 20878
(301)670-1010
Attn: Mr. Ralph Bice, III

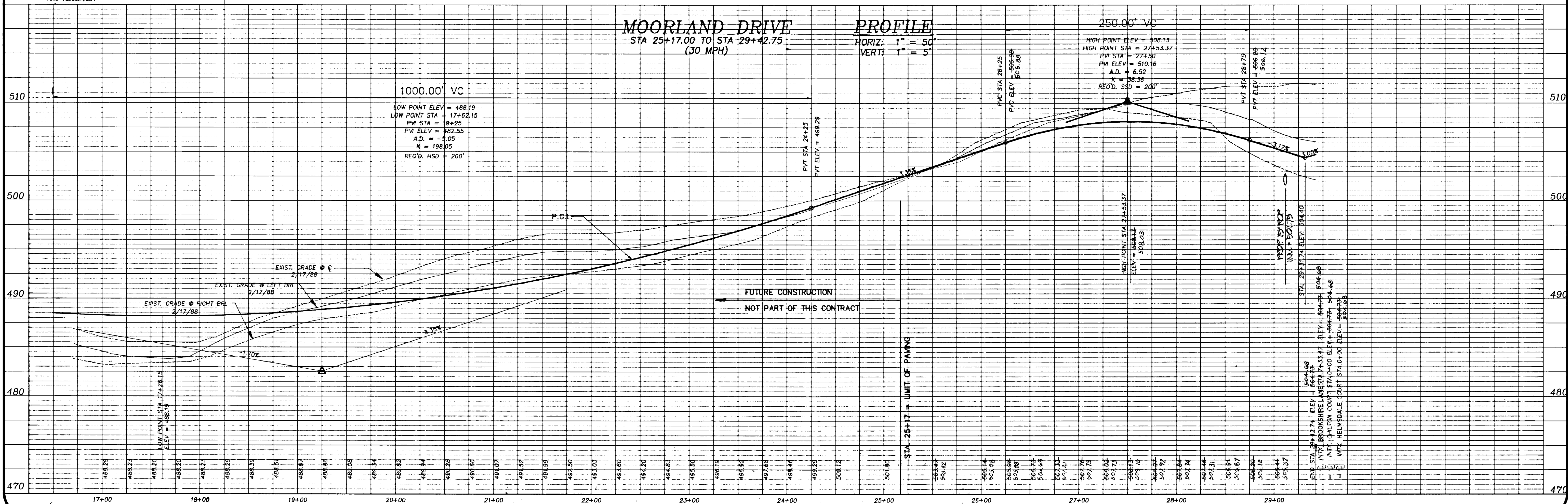
ENGINEER
MILDENBERG, MOCHI & ASSOCIATES, INC.
3300 North Ridge Road, Suite 235
Ellicott City, Maryland 21043
(410)461-0078
Attn: Mr. Robert M. Mochi, P.E.



PLAN
SCALE: 1"=50'

NO.	TYPE	LOCATION	INV. IN	INV. OUT	THREAT ELEV.	REMARKS
I-3	"K"	@ STA. 0+34 CHILTON COURT 9'5" LT.	—	-501.00 500.76	-502.05 502.28	92.4.12
ES-3	CONCRETE END SECTION	@ STA. 0+02 COTTWOOD COURT 9'5" LT.	—	-500.50 500.46	—	92.5.52
I-1	"K"	@ STA. 20+07 MOORLAND DR. 9'5" LT.	—	502.00 501.96	503.40	92.4.12
EW-1	TYPE "C" ENDWALL MODIFIED FOR ELLIPTICAL PIPE	@ STA. 0+75 CHILTON CT. 9'5" RT.	—	488.38 488.45	—	92.5.21
ES-1	CONCRETE END SECTION	@ STA. 20+17 MOORLAND DR. 9'5" RT.	501.50 501.56	501.50 501.56	—	92.5.52
EW-2	TYPE "C" ENDWALL MODIFIED FOR ELLIPTICAL PIPE	@ STA. 0+75 CHILTON CT. 9'5" RT.	—	—	488.00	92.5.21

MOORLAND DRIVE
- STA 25+17.00 TO STA 29+42.75
(30 MPH)



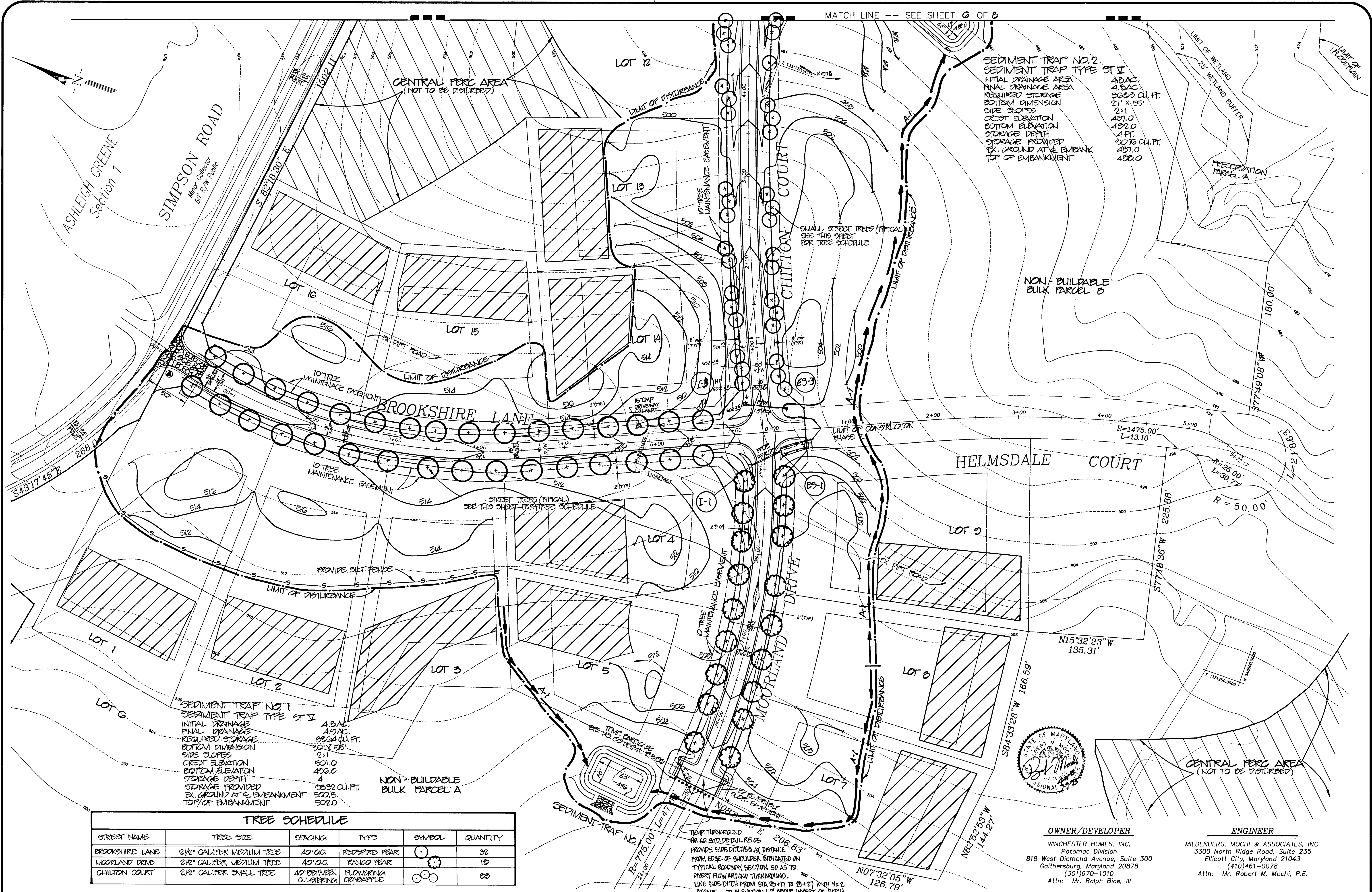
Project	89027.05	date	APRIL '93
Illustration	TIP	engineering	
TIP		approval	
scale	1" = 50'		

REVISED TREE DETAIL STRUCTURE SCHEDULE PER DWM	8/12/93	date	
REVISED TREE DETAIL & PAV. REVIEW COMMENTS	7/7/93		
LIST SUBMITTAL TO HO. CO. DTZ	4/21/93		
no.	0		

PHASE 1
ASHLEIGH KNOLLS
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 5
MOORLAND DRIVE - PLAN & PROFILE

MILDENBERG, MOCHI & ASSOCIATES, INC.
ENGINEERS - SURVEYORS - PLANNERS
3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
(410) 461-0078 D.C. Metro: (301) 521-5768 Fax: (410) 750-5340

16665



SEDIMENT TRAP NO. 2
 SEDIMENT TRAP TYPE ST II
 INITIAL DRAINAGE AREA 4.8 AC.
 FINAL DRAINAGE AREA 8.833 CU. FT.
 REQUIRED STORAGE 21' X 55'
 BOTTOM DIMENSION 21'
 SIDE SLOPES 2:1
 CREST ELEVATION 487.0
 BOTTOM ELEVATION 492.0
 STORAGE DEPTH 4 FT.
 STORAGE PROVIDED 9076 CU. FT.
 EX. GROUND AT EMBANK TOP OF EMBANKMENT 487.0
 482.0

SEDIMENT TRAP NO. 1
 SEDIMENT TRAP TYPE ST II
 INITIAL DRAINAGE AREA 4.8 AC.
 FINAL DRAINAGE AREA 8.833 CU. FT.
 REQUIRED STORAGE 21' X 55'
 BOTTOM DIMENSION 21'
 SIDE SLOPES 2:1
 CREST ELEVATION 501.0
 BOTTOM ELEVATION 496.0
 STORAGE DEPTH 4 FT.
 STORAGE PROVIDED 2632 CU. FT.
 EX. GROUND AT EMBANK TOP OF EMBANKMENT 502.5
 502.0

TREE SCHEDULE					
STREET NAME	TREE SIZE	SPACING	TYPE	SYMBOL	QUANTITY
BROOKSHIRE LANE	2 1/2" CALIPER MEDIUM TREE	40' O.C.	REDSPARE PEAR	(Symbol)	22
MOORLAND DRIVE	2 1/2" CALIPER MEDIUM TREE	40' O.C.	PANCO PEAR	(Symbol)	10
CHILTON COURT	2 1/2" CALIPER SMALL TREE	40' BETWEEN CLUSTERS	FLOWERING CRABAPPLE	(Symbol)	25

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 8/12/93
 CHIEF, LAND DEVELOPMENT DIVISION
 [Signature] 8-11-93
 CHIEF, BUREAU OF HIGHWAYS
 [Signature] 8/13/93
 CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 [Signature] 8/12/93
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED: THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 [Signature] 7/15/93
 HOWARD SOIL CONSERVATION DISTRICT

APPROVED: REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 [Signature] 7/15/93
 U.S. SOIL CONSERVATION SERVICE

DEVELOPER'S CERTIFICATE
 I/We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this 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 onsite inspection by the Howard County Soil Conservation District or their authorized agents, as are deemed necessary.
 [Signature] 4/21/93
 Signature of 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 conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District.
 [Signature] 4-21-93
 Robert M. Mochi, P.E. Date

Project	89027-05	date	APRIL 93
Illustration	YSL	engineering	TJP
no.	0	approval	RM
scale	1" = 50'		

no.	1	description	ADD DIM'S TO TREE SCHEDULES @ 1/3 PER DPW	date	8/2/93
no.	2	description	REVISED TREE SCHEDULES TO ADD DIMENSIONS TO TREE SCHEDULES	date	7/17/93
no.	3	description	ADDED RIP RAP TO SEDIMENT TRAP NO. 1	date	5/25/93
no.	4	description	1ST SUBMITTAL TO HD CO. DPW	date	4/21/93

PHASE I
 ASHLEIGH KNOLLS
 HOWARD COUNTY, MARYLAND
 ELECTION DISTRICT No. 5
 GRADING & SEDIMENT CONTROL PLAN

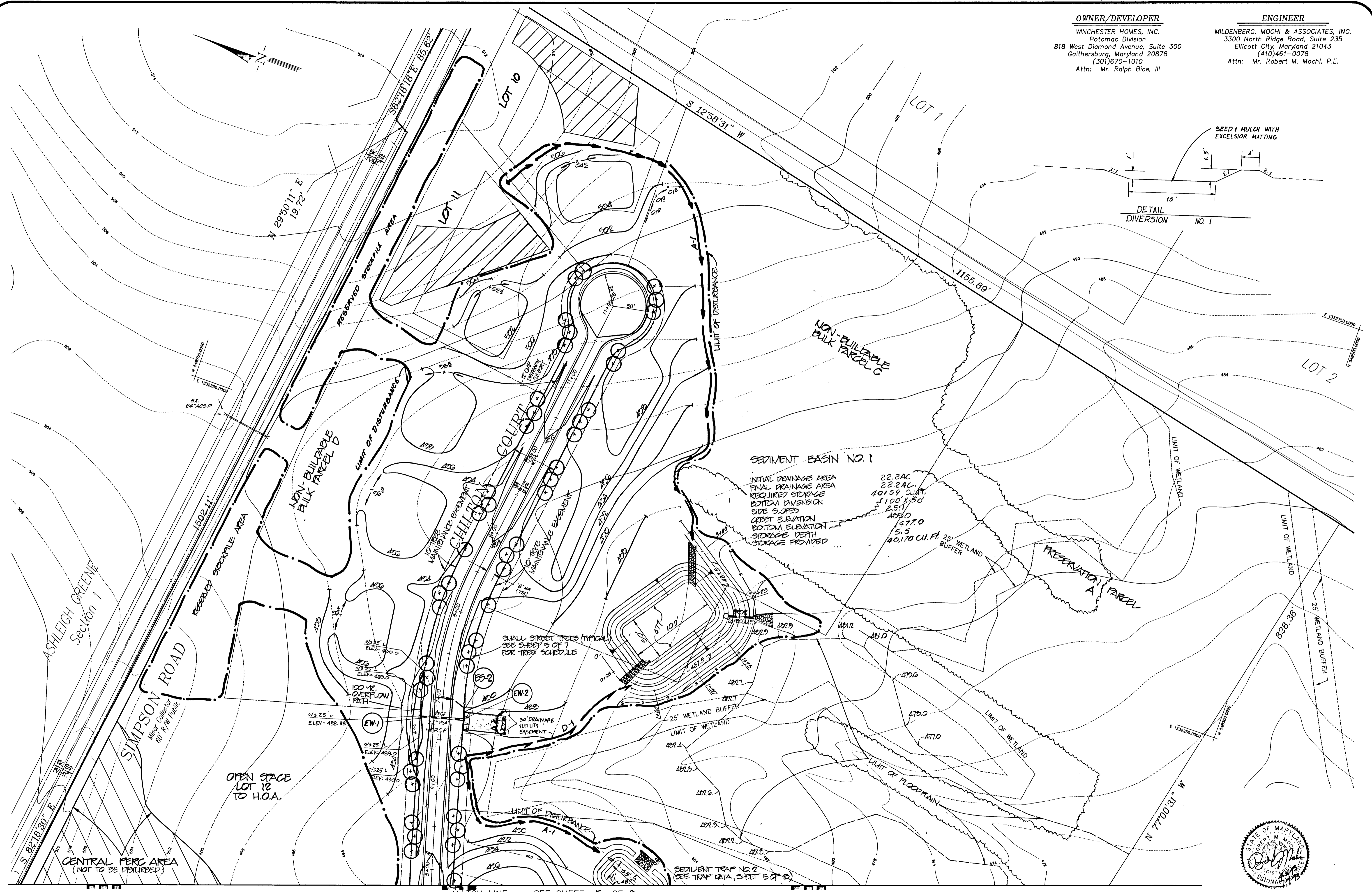
MILDENBERG, MOCHI & ASSOCIATES, INC.
 ENGINEERS - SURVEYORS - PLANNERS
 3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
 (410) 461-0018 D.C. Metro. (301) 921-3168 Fax: (410) 756-6340

OWNER/DEVELOPER
 WINCHESTER HOMES, INC.
 Potomac Division
 818 West Diamond Avenue, Suite 300
 Gaithersburg, Maryland 20878
 (301)670-1010
 Attn: Mr. Ralph Bice, III

ENGINEER
 MILDENBERG, MOCHI & ASSOCIATES, INC.
 3300 North Ridge Road, Suite 235
 Ellicott City, Maryland 21043
 (410)461-0078
 Attn: Mr. Robert M. Mochi, P.E.

Project	09027-05	date	APRIL, 93
Illustration	YSL	engineering	RM
scale	1" = 50'	TJP	approval

DATE	DESCRIPTION
8/21/93	CHANGES TO EROSION CONTROL PLAN
7/7/93	REVISIONS TO LOG & SEDIMENT BASIN NO. 1
5/24/93	REVISIONS TO LOG & SEDIMENT BASIN NO. 1
4/24/93	1ST SUBMITTAL TO H.C. SOIL CONSERVATION DISTRICT



1669

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 8/12/93
 CHIEF, LAND DEVELOPMENT DIVISION
 [Signature] 8-11-93
 CHIEF, BUREAU OF HIGHWAYS
 [Signature] 8/13/93
 CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 [Signature] 8/12/93
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED: THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 [Signature] 7/15/93
 HOWARD COUNTY SOIL CONSERVATION DISTRICT

APPROVED: REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 [Signature] 7/15/93
 U.S. SOIL CONSERVATION SERVICE

DEVELOPER'S CERTIFICATE
 I/We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this 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 onsite inspection by the Howard County Soil Conservation District or their authorized agents, as are deemed necessary.
 [Signature] 4/21/93
 Signature of Developer

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 conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District.
 [Signature] 4-21-93
 Robert M. Mochi, P.E.
 Date



PHASE I
ASHLEIGH KNOLLS
 ELECTION DISTRICT No. 6
 HOWARD COUNTY, MARYLAND
GRADING & SEDIMENT CONTROL PLAN

MILDENBERG, MOCHI & ASSOCIATES, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
 (410) 461-0078 D.C. Metro: (301) 621-5768 Fax: (410) 750-6340

OWNER/DEVELOPER

WINCHESTER HOMES, INC.
Performance Division
818 West Diamond Avenue, Suite 300
Gaithersburg, Maryland 20878
(301)670-1010
Attn: Mr. Ralph Bice, III

ENGINEER

MILDENBERG, MOCHI & ASSOCIATES, INC.
3300 North Ridge Road, Suite 235
Ellicott City, Maryland 21043
(410)461-0078
Attn: Mr. Robert M. Mochi, P.E.



DRAINAGE AREA MAP

SCALE: 1" = 200'

SOIL TYPES
ChA CHESTER SILT LOAM (B)
ChB2 CHESTER SILT LOAM (B)
C9B2 CHESTER GRAVELLY LOAM (B)
EKB2 ELIOAK SILT LOAM (C)
G1B2 GLENELG LOAM (B)

PERMANENT SEEDING NOTES

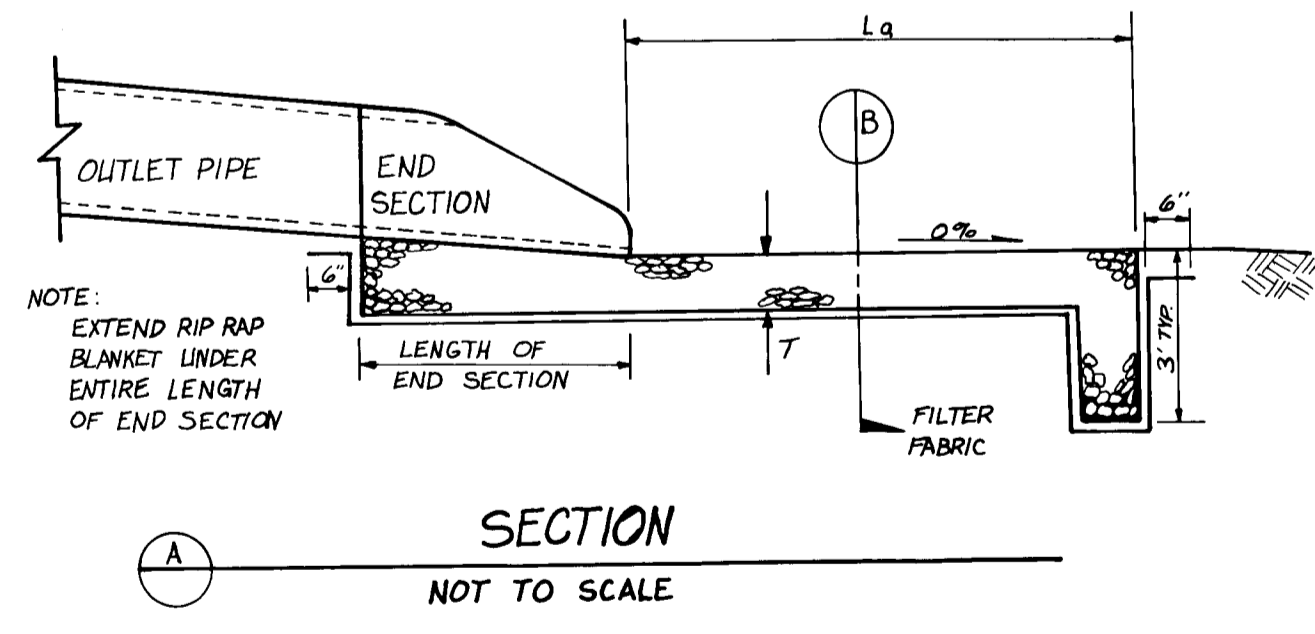
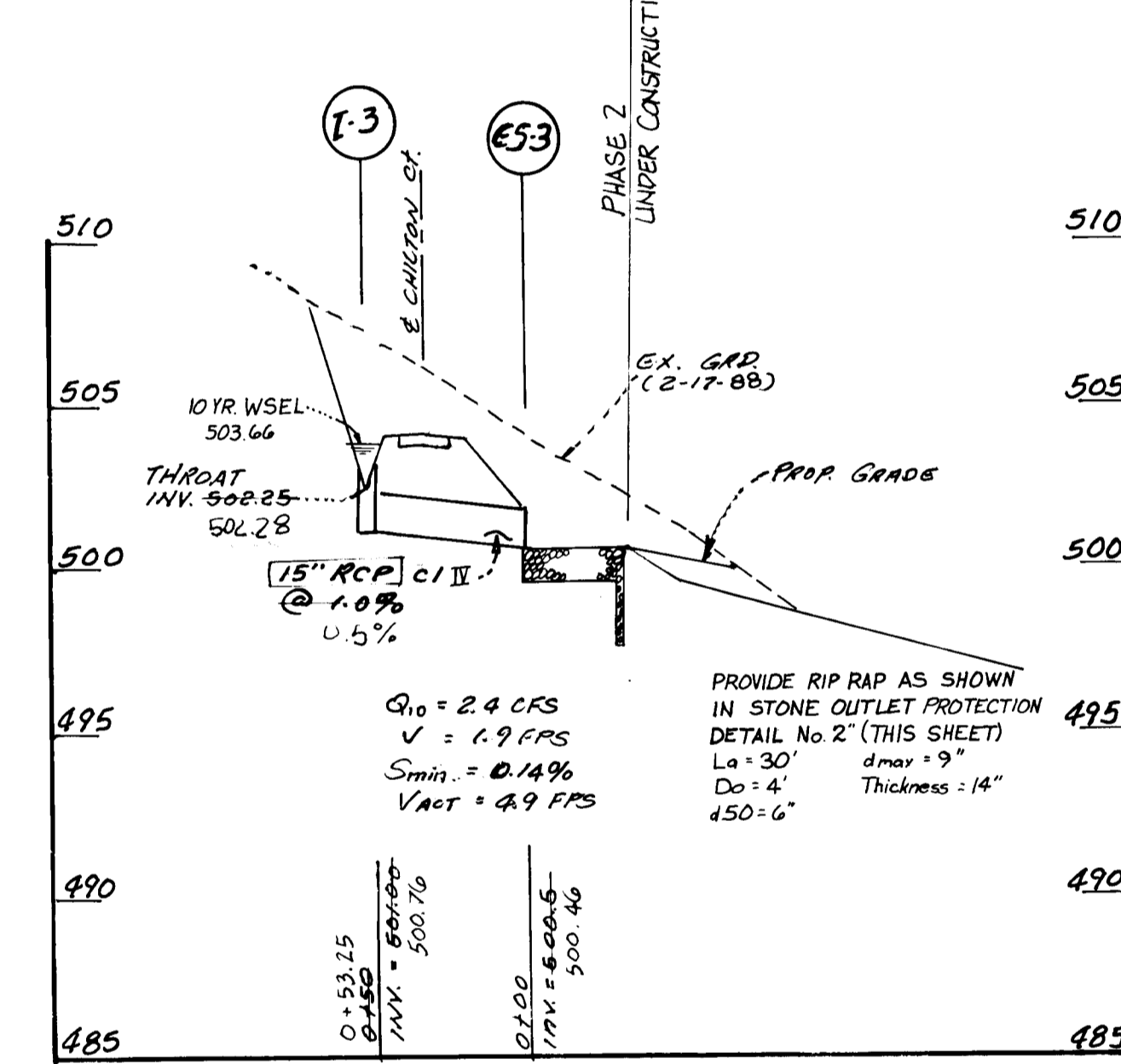
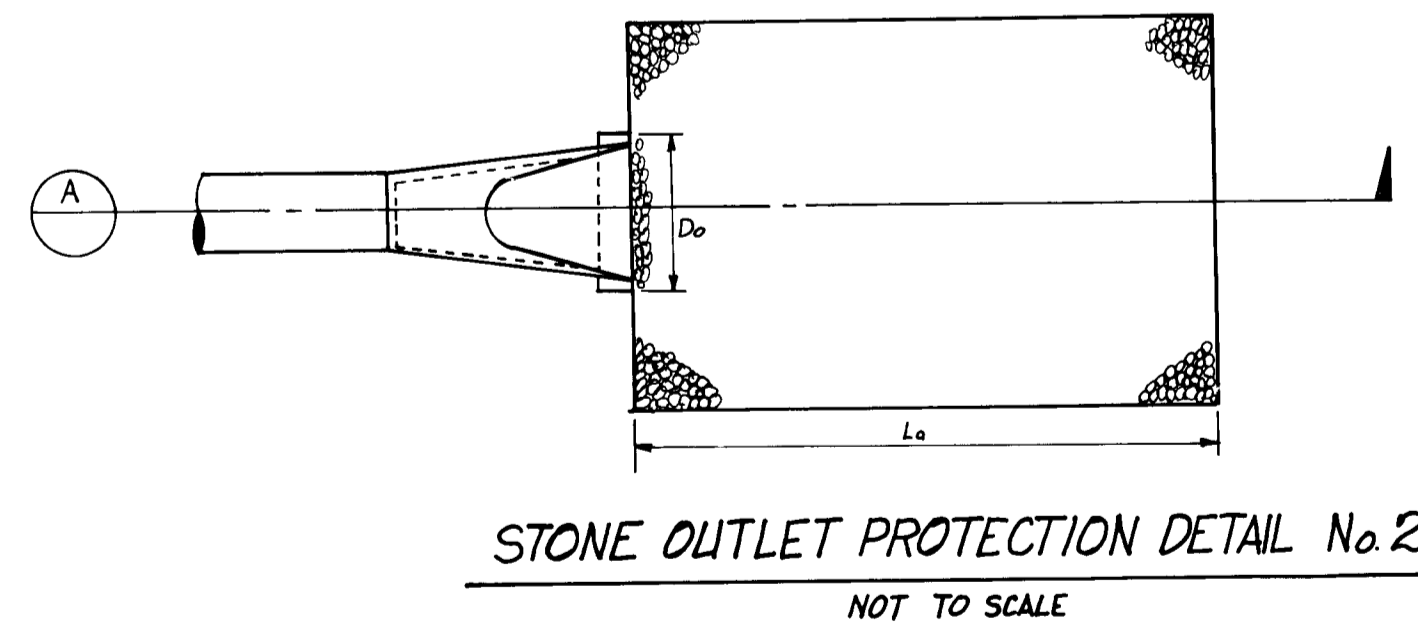
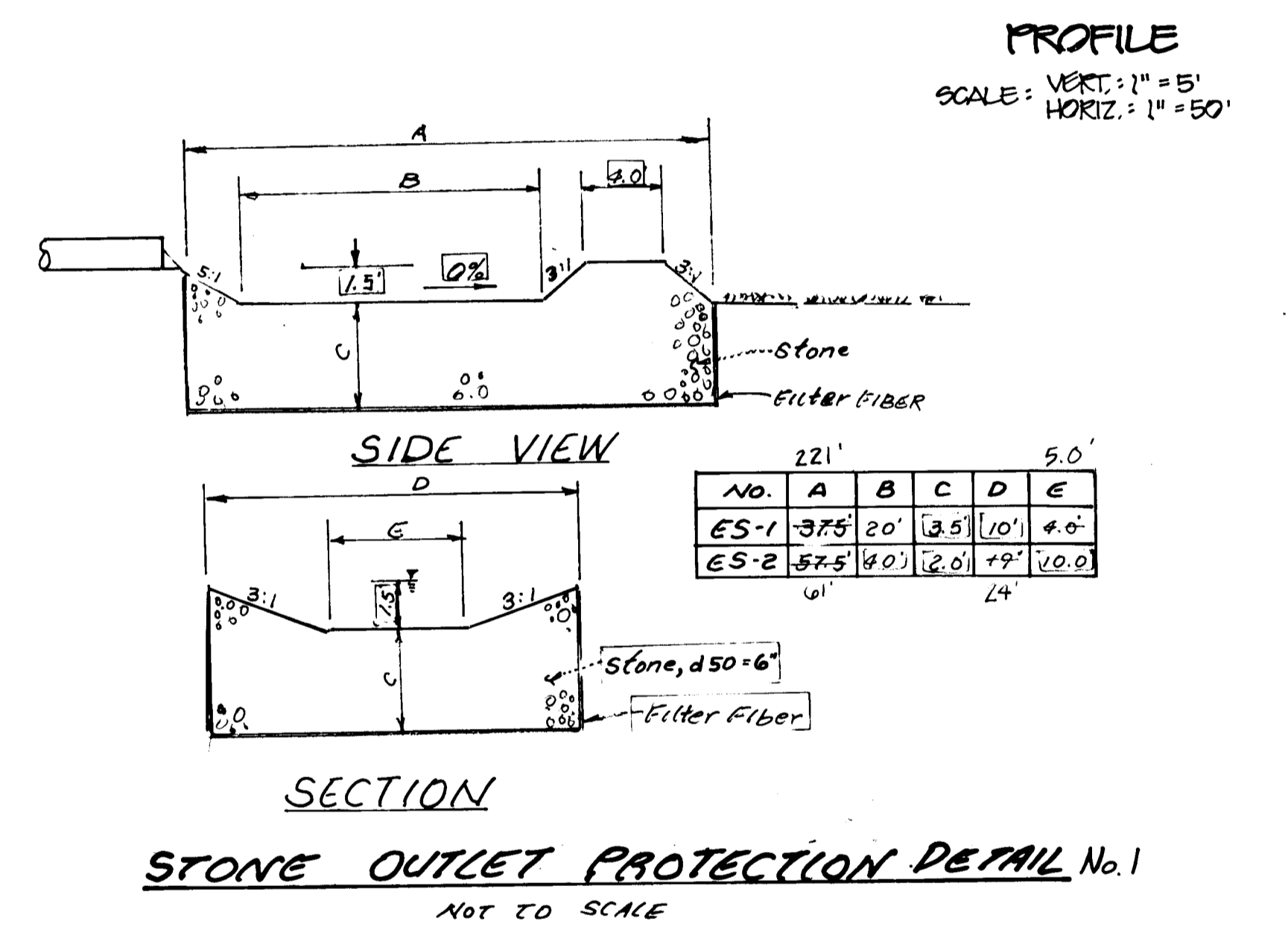
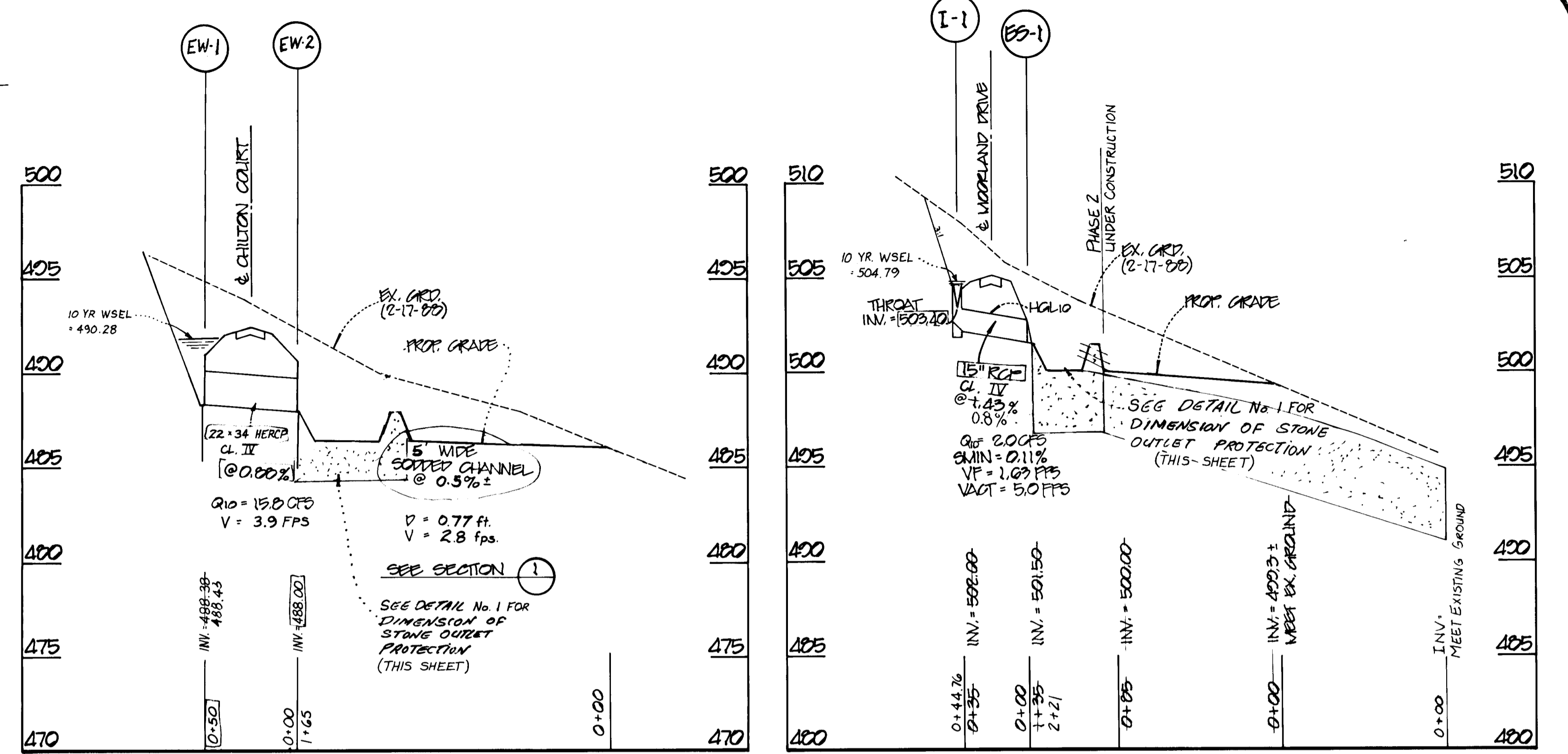
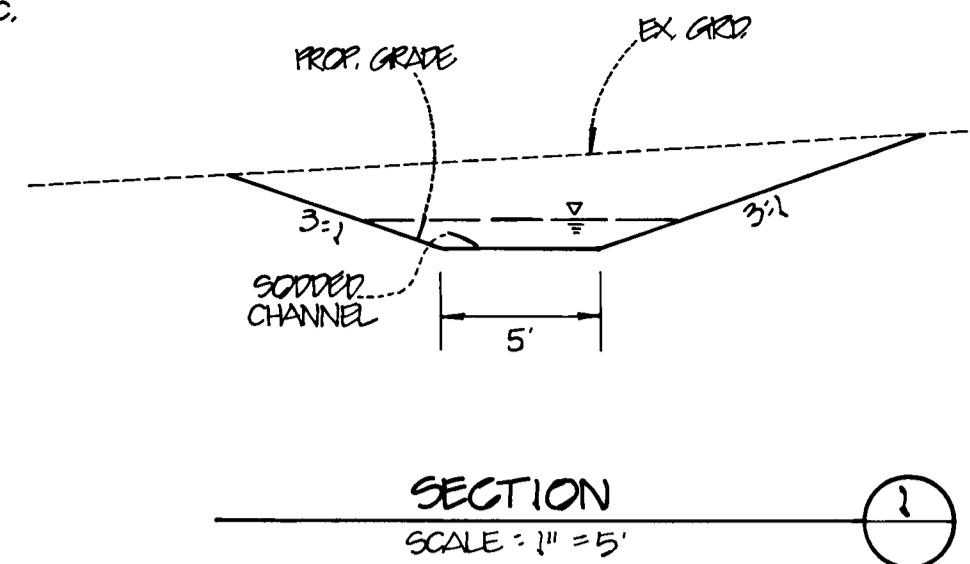
Apply to graded or cleared area not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.
Soil Amendments: In lieu of soil test recommendations, use on the following schedules.
1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf) before seeding.
2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sf) before seeding.
Seeding: For the periods March 1 through April 30 and August 1 through October 15, seed with 60 lbs per acre (1.4 lbs/1000 sf) of Kentucky 31 Tall Fescue.
Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sf) of unrotted small grain straw immediately after seeding.
Maintenance: Inspect all seeded 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.
Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.
Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf).
Seeding: For periods March 1 through April 30 and from August 15 through November 15, seed with 2-1/2 bushel per acre of annual rye (3.2 lbs/1000 sf).
Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sf) of unrotted small grain straw immediately after seeding.
Refer to the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for rate and methods not covered.

SEDIMENT CONTROL NOTES

- 1. A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction.
2. 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.
3. Following initial soil disturbances or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and oil slopes greater than 3:1; b) 14 calendar days as to all other disturbed or graded areas on the project site.
4. 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).
5. 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.
6. Site Analysis: Total Area of Site: PHASE 1 - 66,075 AC. Total Cut: 20,035 CY. Total Fill: 10,410 CY. Area to be Disturbed: 15,53 AC. Offsite Waste Storage Area: NONE (TO REMAIN ON-SITE). Area to be seeded or paved: 118 AC. Area to be vegetatively stabilized: 14.34 AC.
7. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
8. Additional sediment controls must be provided, if deemed necessary by the Howard County DFW Sediment Control Inspector.
9. Quantities and estimates shown are for sediment control purposes only. Contractor shall prepare his/her own quantity estimates to his/her satisfaction.



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Andrew M. Daniels 8/12/93
Andrew M. Daniels 8-11-93
Paul W. Seaman 8/13/93

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Ronald Blood 8/12/93

APPROVED: THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

John R. Robertson 7/15/93

APPROVED: REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

James M. Helms 7/15/93

DEVELOPER'S CERTIFICATE

I/We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this 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 onsite inspection by the Howard County Soil Conservation District or their authorized agents, as are deemed necessary.
Signature of Developer: [Signature] Date: 4/24/93

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 conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District.
Signature: [Signature] Date: 4-21-93

AS BUILT 2/14/96 F 93.116

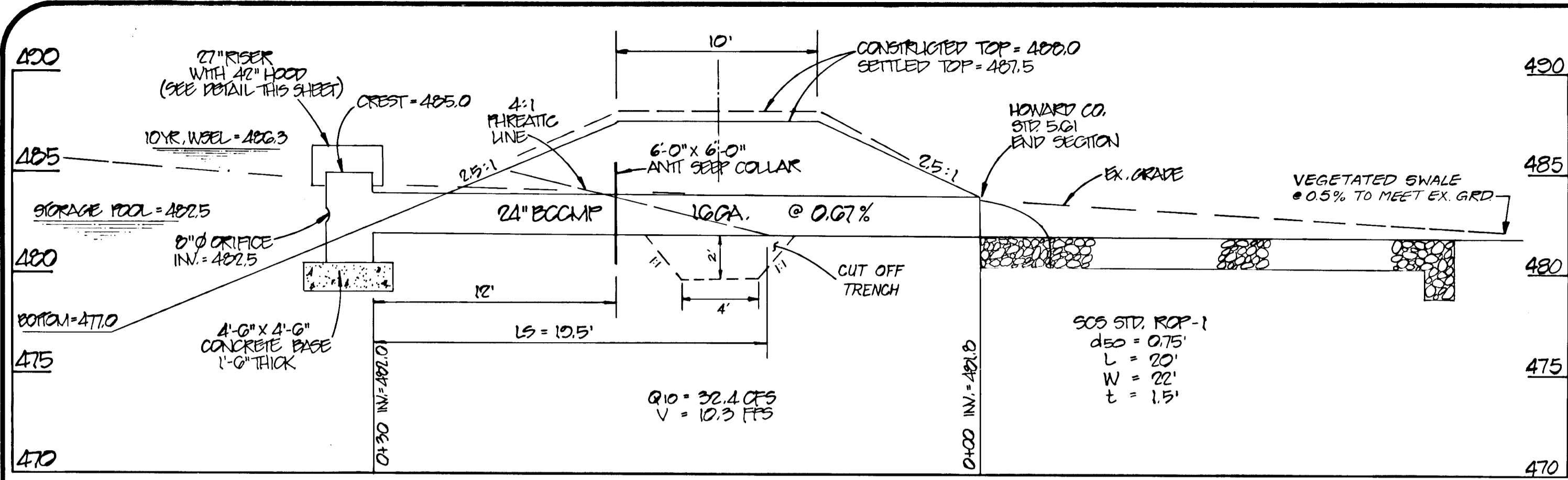
1669

Table with columns: PROJECT, DATE, ILLUSTRATION, REVISION, SCALE, APPROVAL, AS SHOWN.

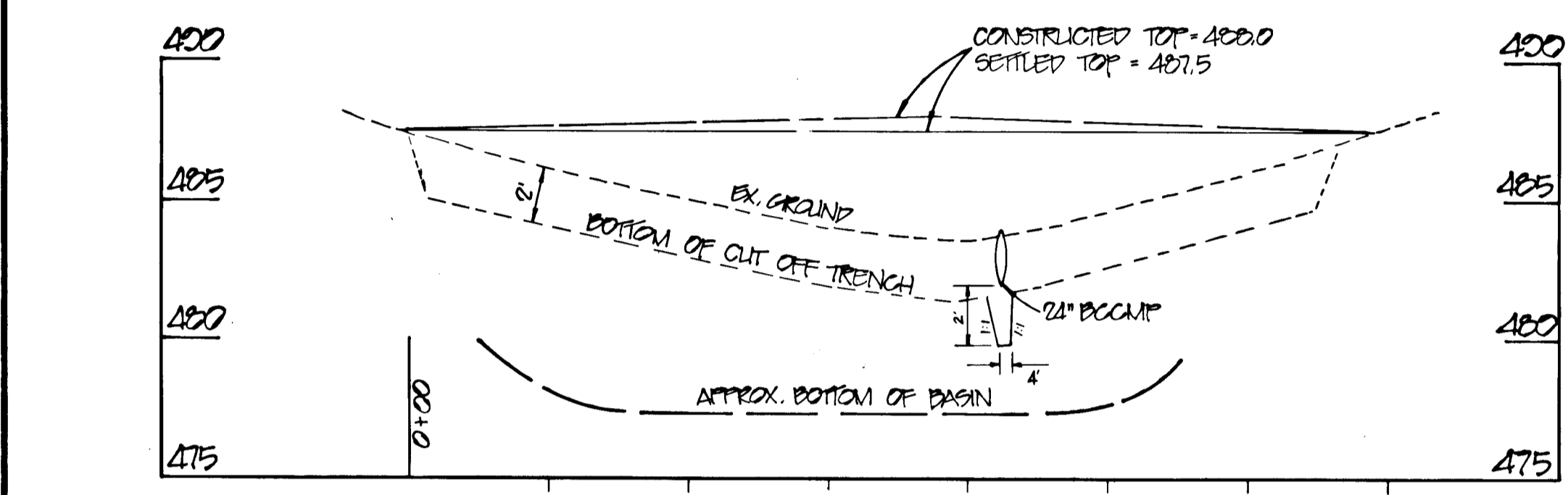
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PHASE 1
ASHLEIGH KNOLLS
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 5
STORM DRAIN PROFILES AND SEDIMENT CONTROL NOTES

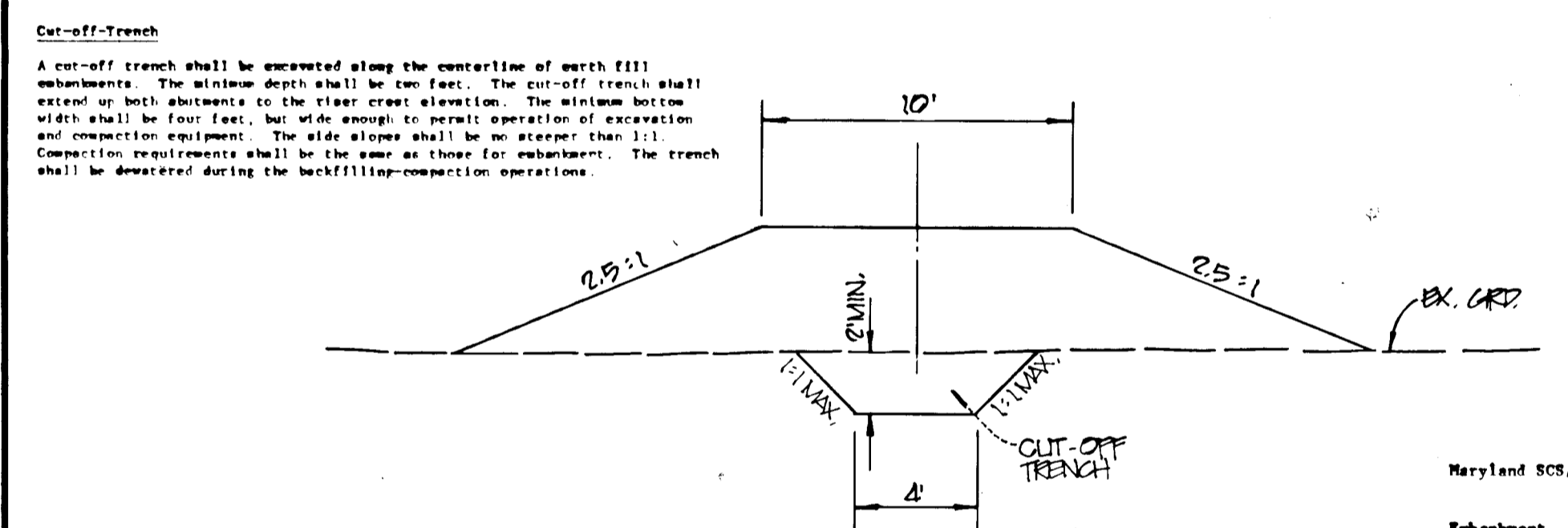
MILDENBERG, MOCHI & ASSOCIATES, INC.
3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
(410) 461-0078 D.C. Metro: (301) 821-5768 Fax: (410) 750-6340



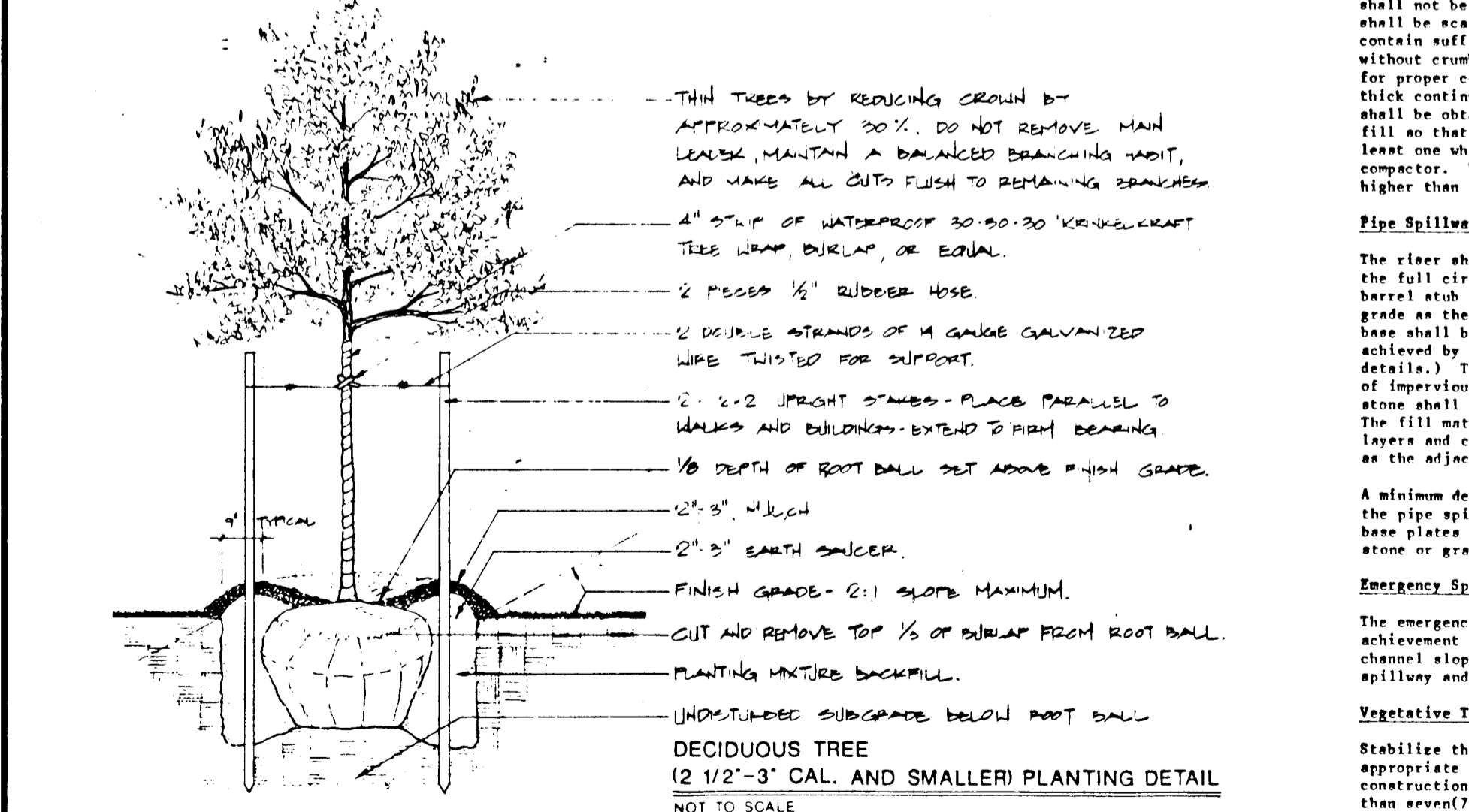
PRINCIPAL SPILLWAY PROFILE
SCALE: 1" = 5'



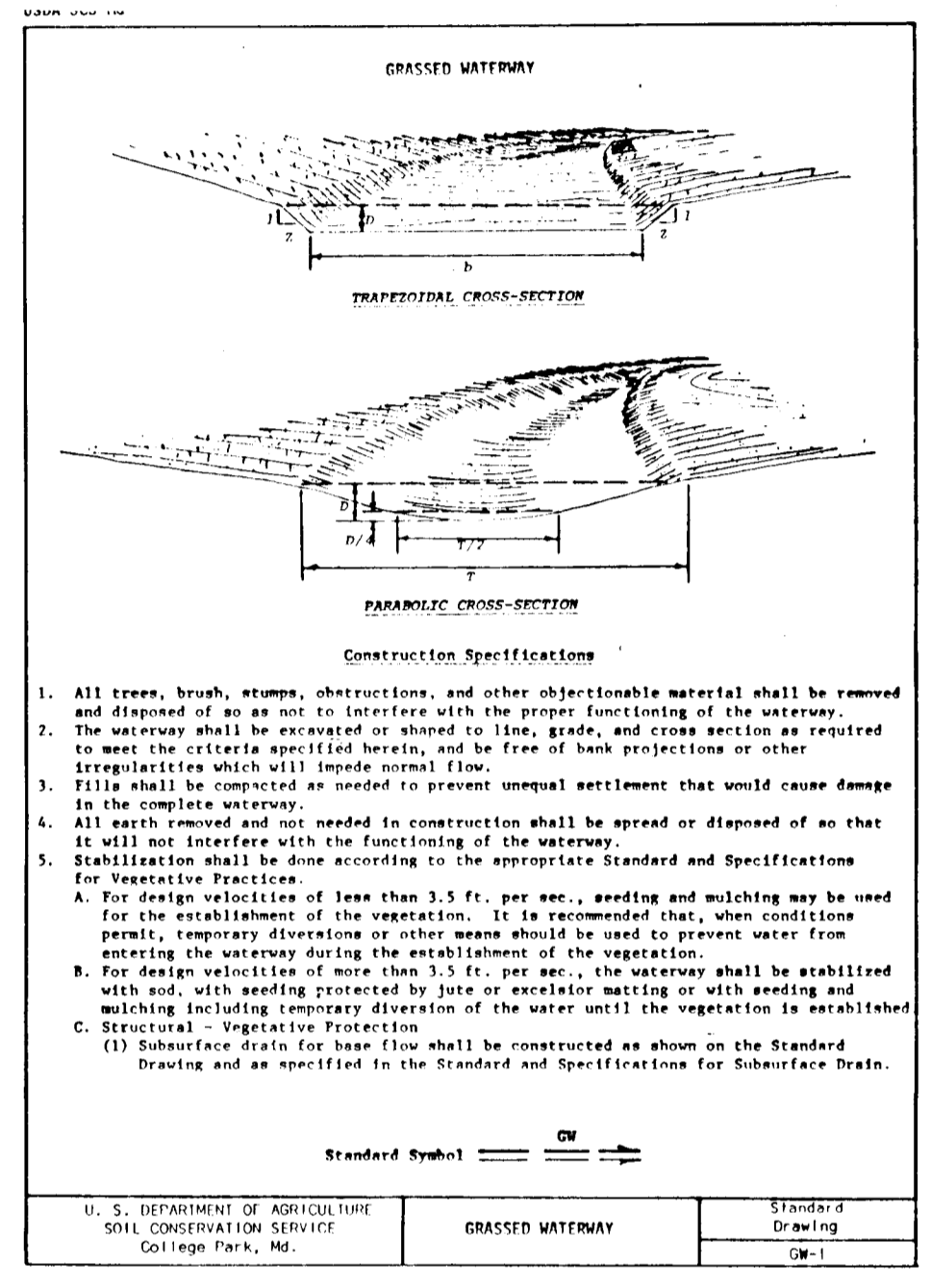
CENTERLINE OF EMBANKMENT PROFILE
SCALE: VERT. 1" = 5'
HORIZ. 1" = 50'



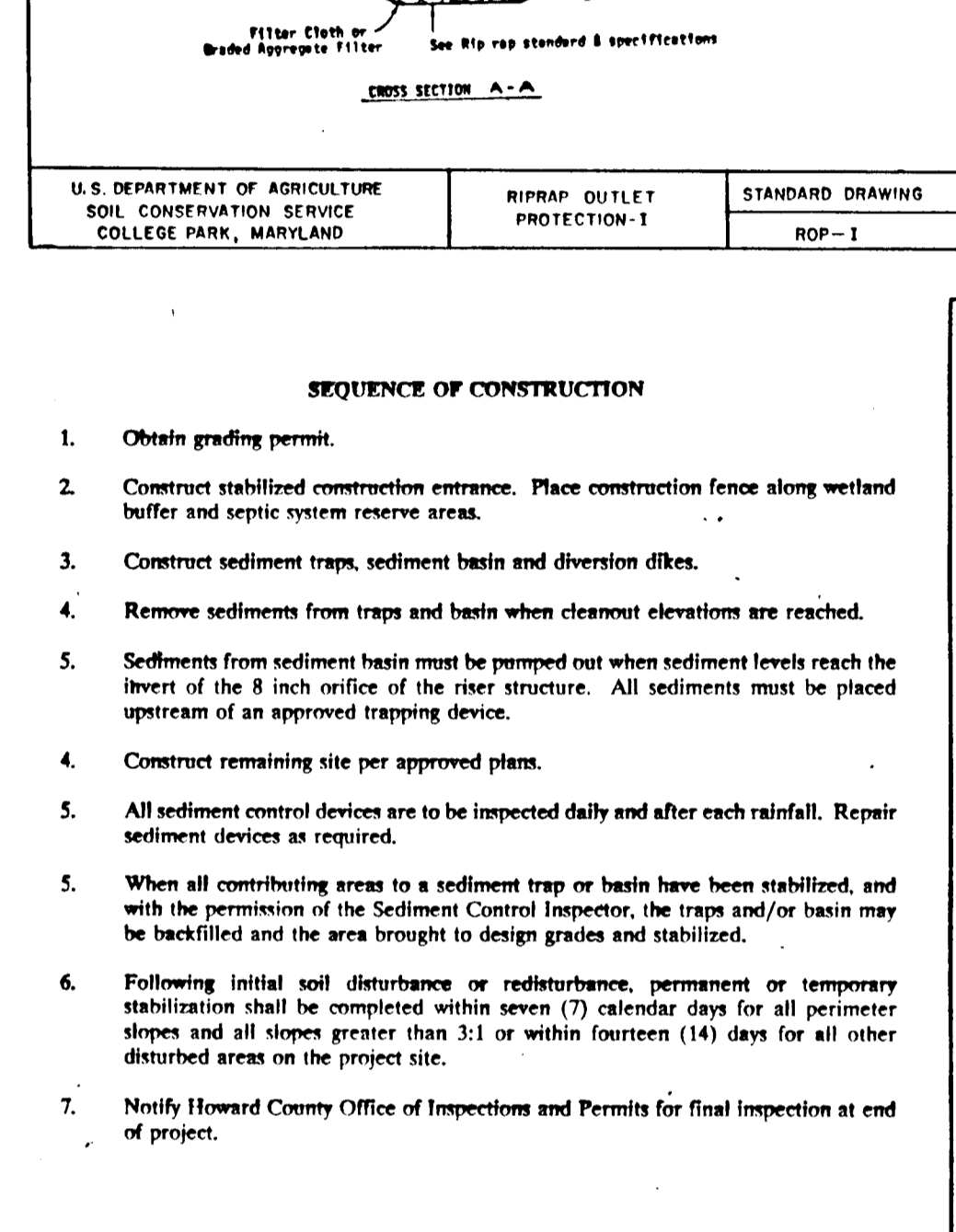
EMBANKMENT SECTION
SCALE: 1" = 5'



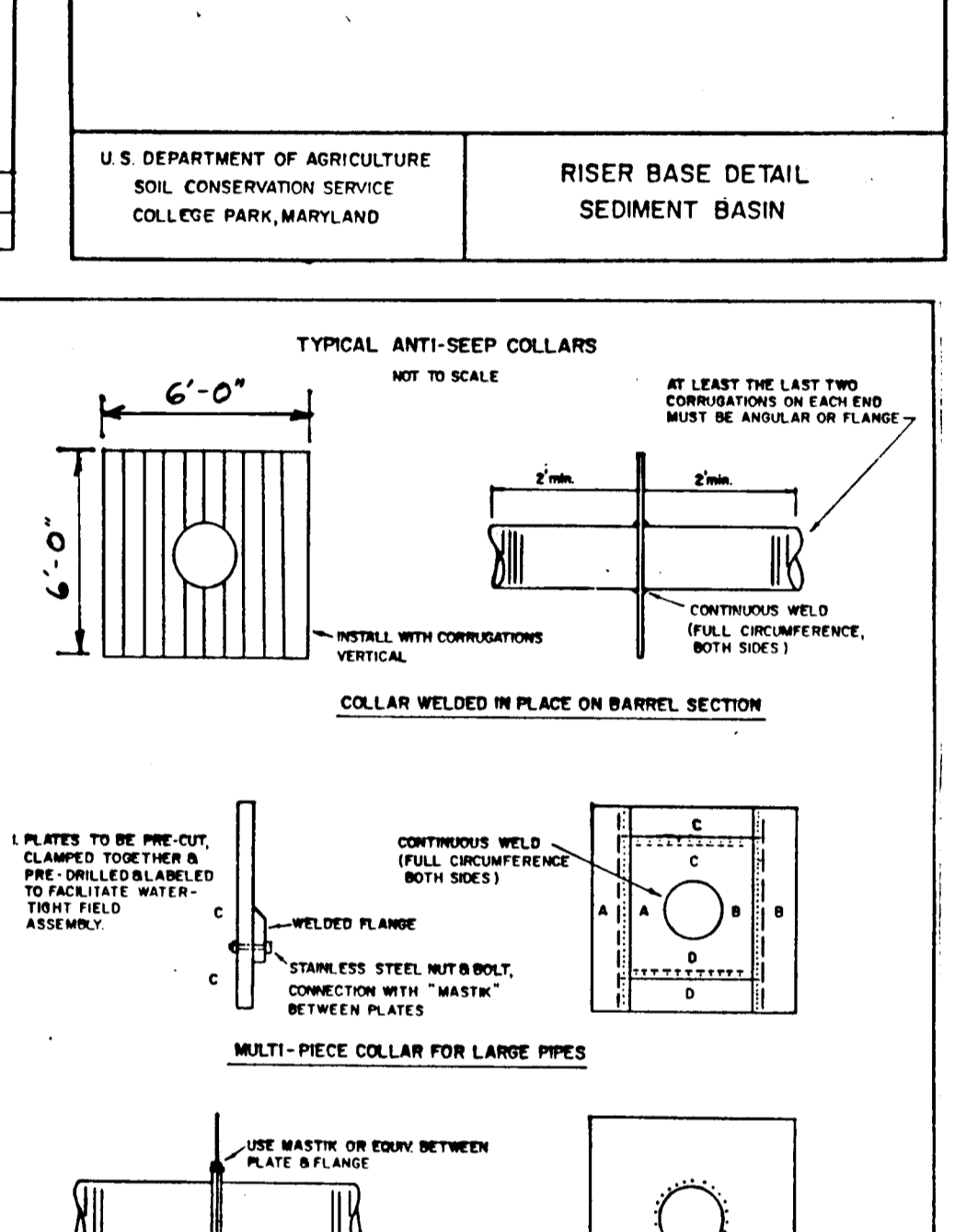
DECIDUOUS TREE (12 1/2" - 3" CAL. AND SMALLER) PLANTING DETAIL
NOT TO SCALE



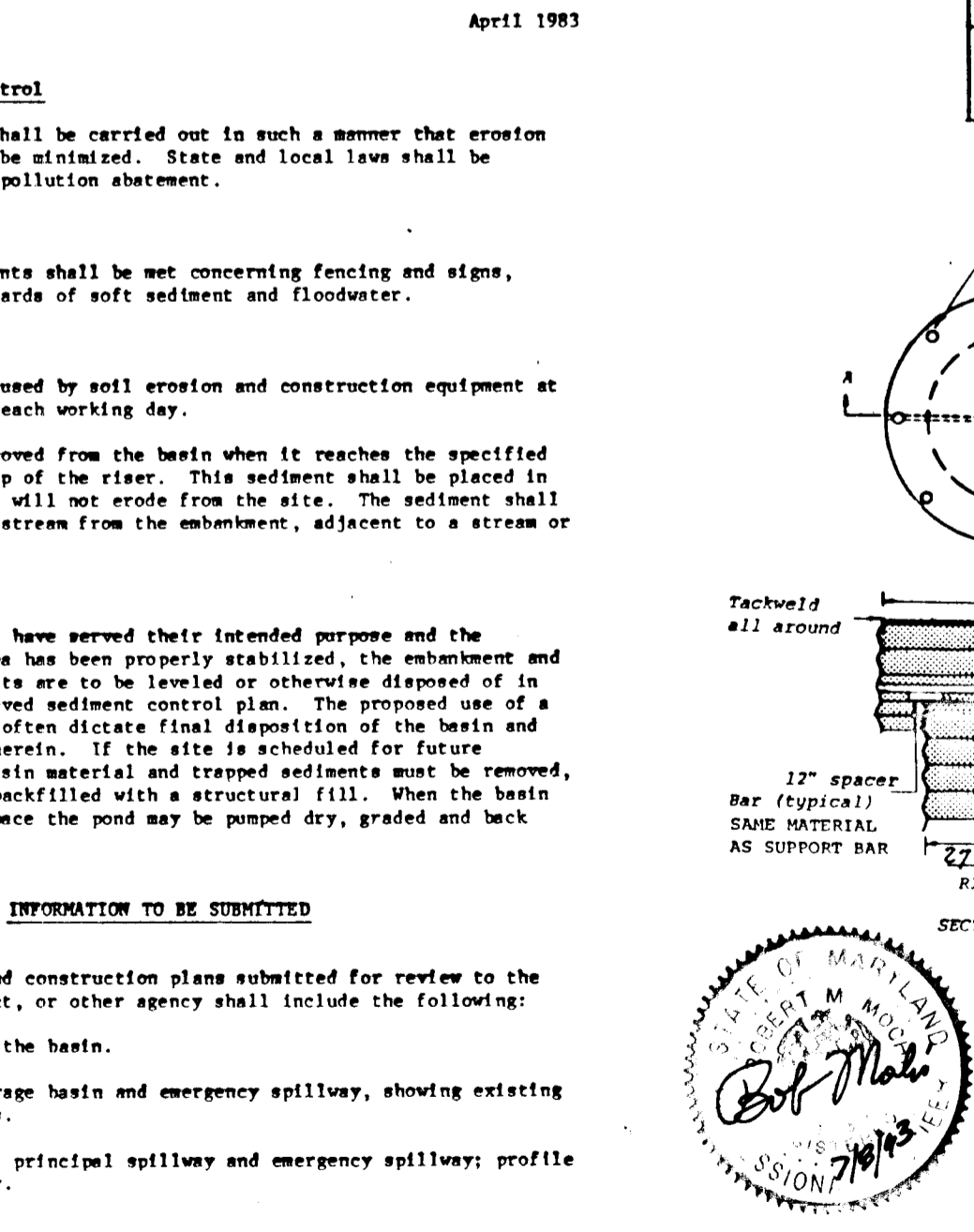
Grassed Waterway
Standard Drawing
SB



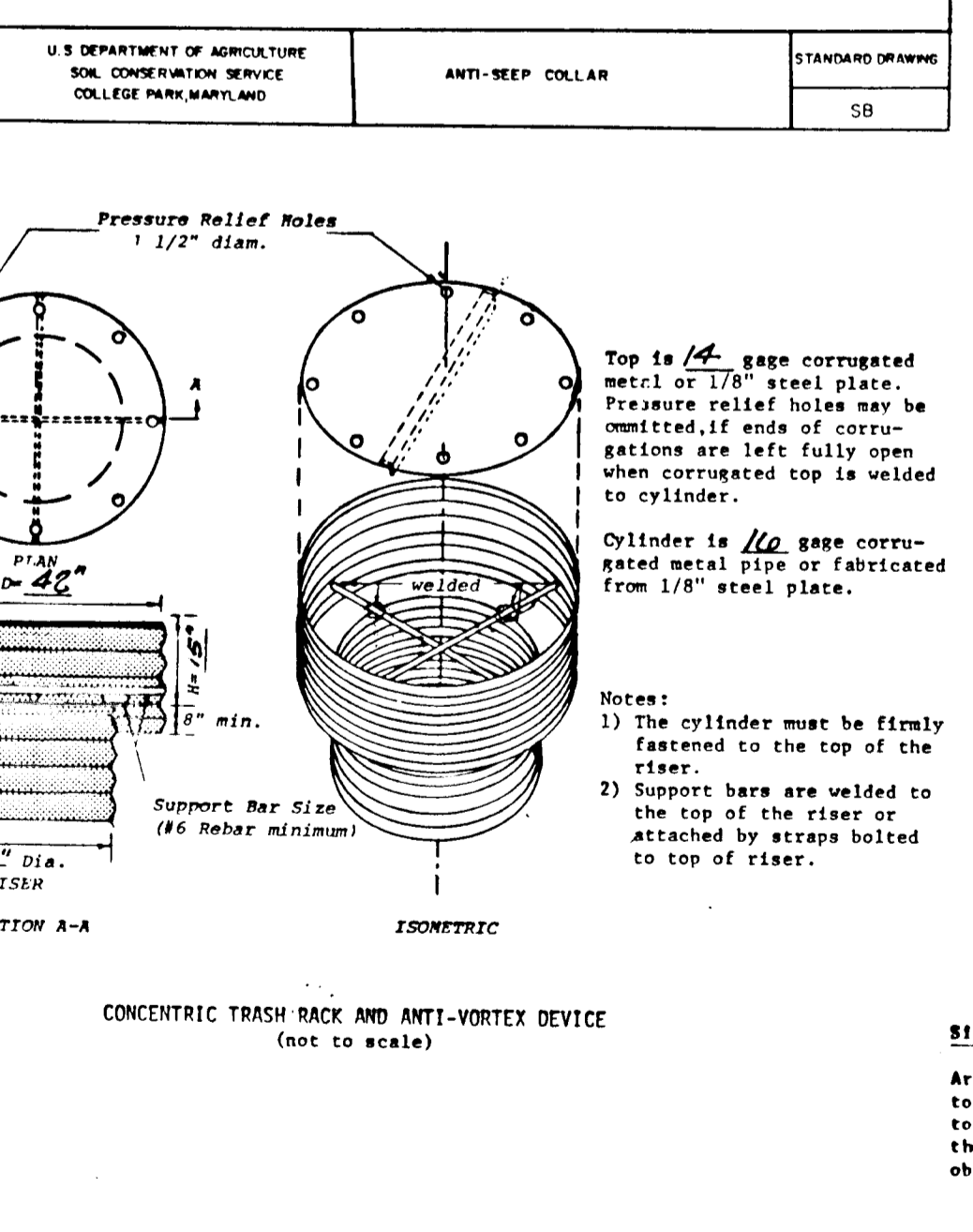
SEQUENCE OF CONSTRUCTION
Standard Drawing
SB



TYPICAL ANTI-SEEP COLLARS
Standard Drawing
SB



Pressure Relief Holes
Standard Drawing
SB



STONE OUTLET SEDIMENT TRAP
Standard Drawing
SB

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John J. ...
 DATE: 8/14/93
Andrew M. ...
 DATE: 8-11-93
Paul ...
 DATE: 8/13/93

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Paul ...
 DATE: 8/13/93

APPROVED: THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
John P. ...
 DATE: 7/13/93

APPROVED: REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Jessie M. ...
 DATE: 7/13/93

DEVELOPER'S CERTIFICATE
 I/We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this 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 onsite inspection by the Howard County Soil Conservation District or their authorized agents, as are deemed necessary.
Robert M. ...
 DATE: 7/18/93

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 conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District.
Robert M. ...
 DATE: 7/18/93

16607

PROJECT	80027-05	DATE	APRIL 93
ILLUSTRATION	YBL	SCALE	AS SHOWN
REVISIONS	7/7/93	DATE	7/7/93
DESCRIPTION	REVISED PER P&E & P&V REVIEW COMMENTS	DATE	5/23/93
REVISIONS	1	DATE	4/21/93
DESCRIPTION	REVISED TO HQ CO. P&E	DATE	

PROJECT	80027-05	DATE	APRIL 93
ILLUSTRATION	YBL	SCALE	AS SHOWN
REVISIONS	7/7/93	DATE	7/7/93
DESCRIPTION	REVISED PER P&E & P&V REVIEW COMMENTS	DATE	5/23/93
REVISIONS	1	DATE	4/21/93
DESCRIPTION	REVISED TO HQ CO. P&E	DATE	

PHASE I
 ASHLEIGH KNOLLS
 HOWARD COUNTY, MARYLAND
 ELECTION DISTRICT No. 5
 SEDIMENT CONTROL PROFILES AND DETAILS AND NOTES

MILDENBERG, MOCHI & ASSOCIATES, INC.
 ENGINEERS - ARCHITECTS - PLANNERS
 3300 North Ridge Road, Suite 235, Beltsville, City, Maryland 20843-3350
 (410) 461-0078 D.C. Metro: (301) 621-5768 Fax: (410) 750-6340