

- GENERAL NOTES:**
- All work shall be done in accordance with Howard County Standards, Specifications and Details for Construction.
 - All utility companies must be notified in advance of any construction.
 - Storm drainage trenches within road rights-of-way shall be backfilled and compacted in accordance with Howard County Road Code.
 - Any damage to public rights-of-way or paving will be corrected at the contractor's expense.
 - Contractor to notify the Howard County Inspection and Survey Division at least three days before starting work shown on these drawings (Telephone: (301) 792-7272).
 - All traffic control devices shall be installed in accordance with the Manual of Uniform Traffic Control Devices, 1984 Revised Edition.
 - Location of existing utilities shall be verified by the contractor prior to starting any work shown on these drawings. Any damage to existing utilities will be corrected at the contractor's expense.
 - WP-89-104 was approved on March 23, 1989 to allow the culdesac length to exceed 1200 feet.
 - WP-89-113 was denied on March 31, 1989 requiring the developer to make road improvements along Morgan-Woodbine Road.
 - WP-90-43 was denied January 12, 1990 requiring the developer to make road drainage improvements to Morgan Station Road and Morgan-Woodbine Road. An appeal was filed on February 12, 1990.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Olaf M. Sengman 1/14/91
CHIEF, LAND DEVELOPMENT DIVISION

Draville W. Weiland 2/1/91
CHIEF, BUREAU OF HIGHWAYS

R. C. ... 1-18-91
CHIEF, BUREAU OF ENGINEERING

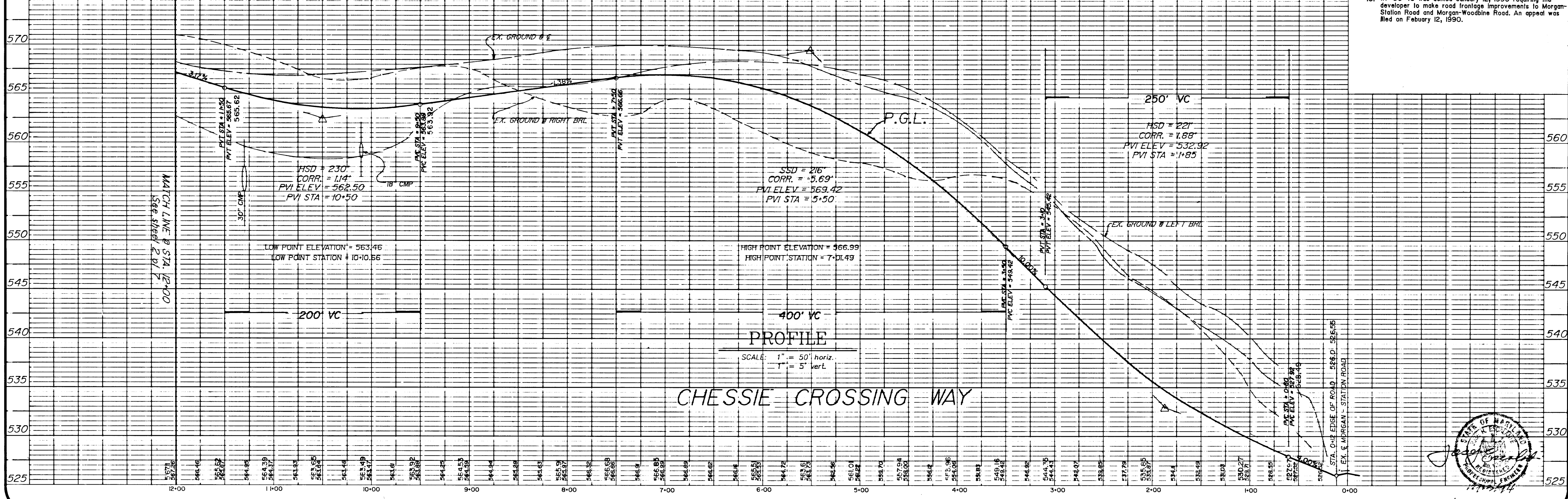
APPROVED: DEPARTMENT OF PLANNING & ZONING

David C. ... 1/18/91
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

Owner
Paul V. Brosenne
c/o Newburn Development Corporation
5570 Sterrett Place, Suite 201
Columbia, Maryland 21044
(301) 997-3815

Developer
C & N Partnership
Sterrett Place, Suite 201
Columbia, Maryland 21044
(301) 997-3815

Engineer
Mildenberg, Mochi & Associates, Inc.
3300 N. Ridge Road, Suite 235
Ellicott City, Maryland 21043
(301) 461-0078



PROJECT	DATE	DESCRIPTION
89020.00	SEPT. 89	illustration
90020.00	JULY 90	engineering
91020.00	JULY 91	engineering
92020.00	JULY 92	engineering
93020.00	JULY 93	engineering
94020.00	JULY 94	engineering
95020.00	JULY 95	engineering
96020.00	JULY 96	engineering
97020.00	JULY 97	engineering
98020.00	JULY 98	engineering
99020.00	JULY 99	engineering
00020.00	JULY 00	engineering

ORIGINALS SUBMITTED FOR SIGNATURES

ADD UTILITY POLES, REVISE ENTRANCE STORM DRAIN ALIGN

REVISED PER HOWARD COUNTY COMMENTS DATED 10/18/89

First submission to Howard County DPZ

description: Chessie Crossing

revision: 1

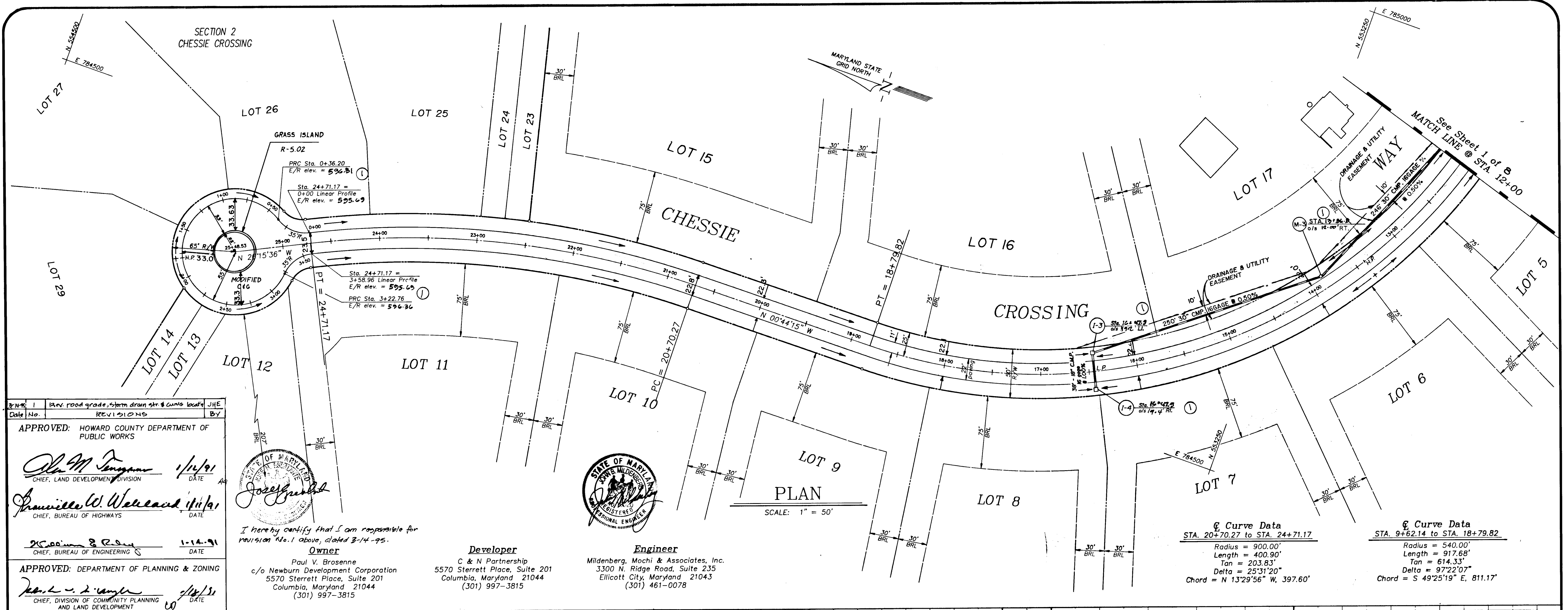
date: 9/20/89

scale: 1" = 50'

Section 1 Lots 1-18
CHESSIE CROSSING
Parcel 4
ELECTION DISTRICT No. 4
HOWARD COUNTY, MARYLAND
CHESSIE CROSSING WAY - PLAN & PROFILE

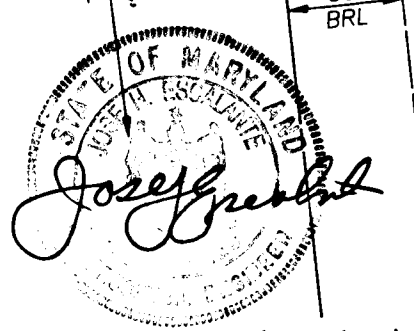
MILDENBERG, MOCHI & ASSOCIATES, INC.
ENGINEERS • SURVEYORS • PLANNERS
3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
(301) 461-0078 D.C. Metro: (301) 621-5768

1617



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John M. Thompson 1/14/91
 CHIEF, LAND DEVELOPMENT DIVISION

APPROVED: DEPARTMENT OF PLANNING & ZONING
John L. ... 1/14/91
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

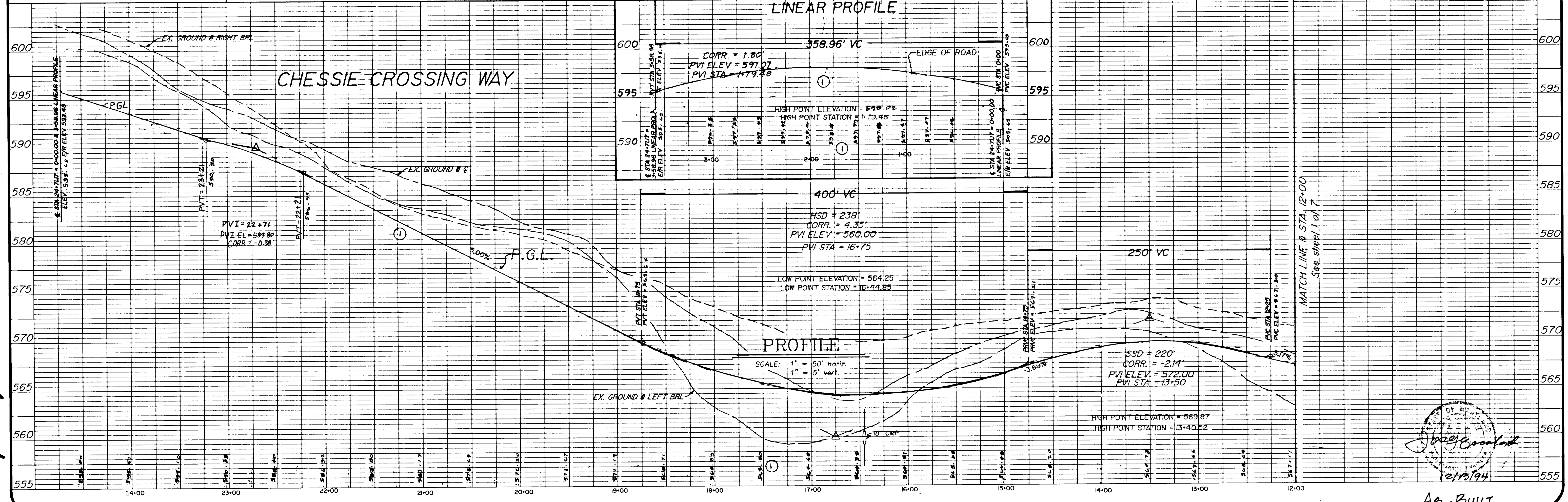


I hereby certify that I am responsible for revision No. 1 above, dated 3-14-95.

Owner
 Paul V. Brosenne
 c/o Newburn Development Corporation
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 3300 N. Ridge Road, Suite 235
 Ellicott City, Maryland 21043
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1617

Joseph Brubaker
 12/15/94

AS-BUILT

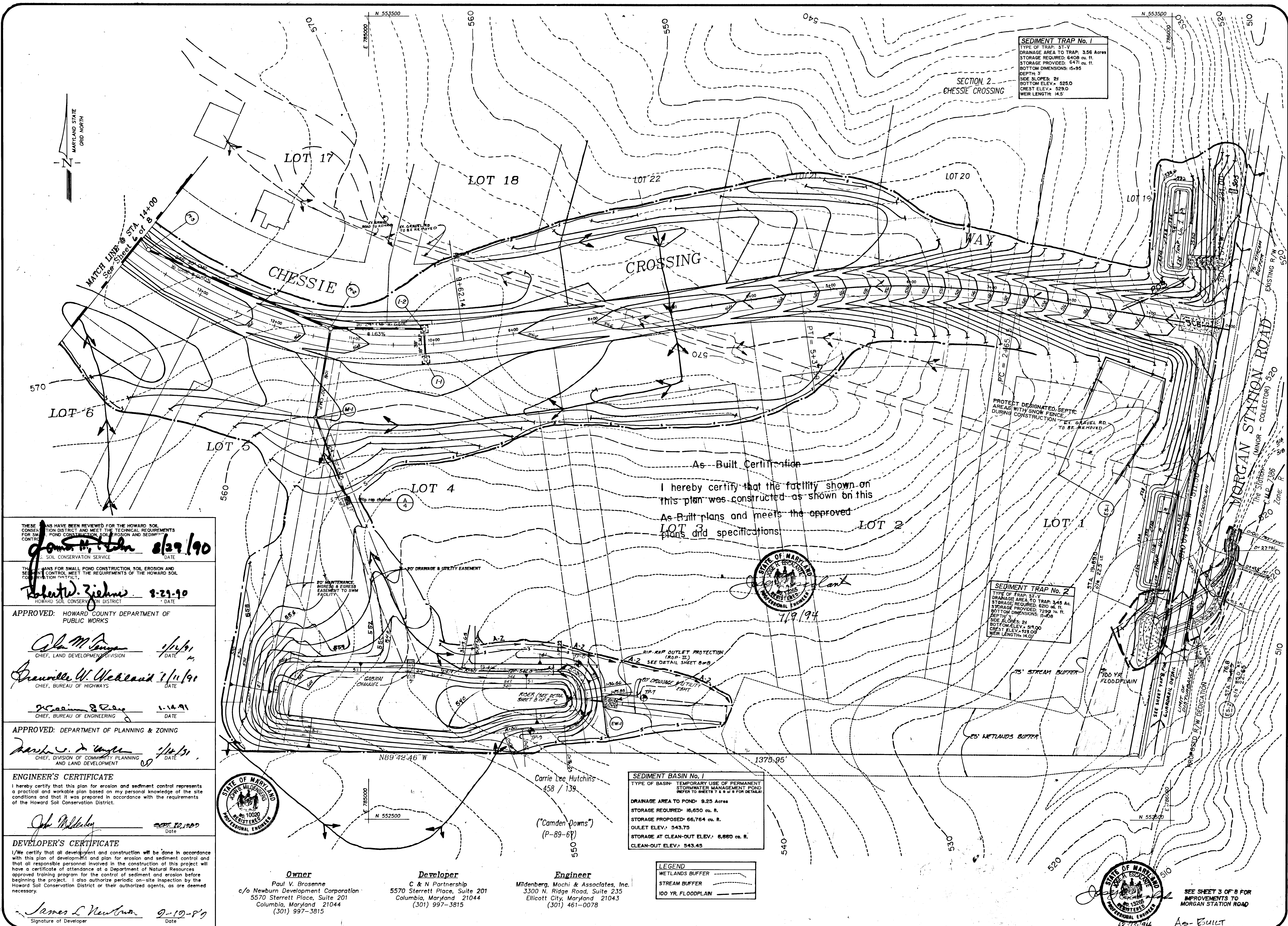
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illustration	illustration	RLA / TOP	JLM
scale	scale	1" = 50'	JLM
approval	approval		JLM

no.	description	date
1	ORIGINALS SUBMITTED FOR SIGNATURES	9/27/90
2	REVISED PER HOWARD CO. COMMENTS DATED 10/19/90	11/25/90
3	REVISED PER HOWARD CO. COMMENTS DATED 10/19/90	12/15/90
4	First submission to Howard County DPZ	9/20/89

Section 1 - Lots 1-18
CHESSIE CROSSING
 Parcel 4
 ELECTION DISTRICT No. 4
 HOWARD COUNTY, MARYLAND
CHESSIE CROSSING WAY - PLAN & PROFILE

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1617



SEDIMENT TRAP No. 1
 TYPE OF TRAP: ST-V
 DRAINAGE AREA TO TRAP: 3.56 Acres
 STORAGE REQUIRED: 6408 cu. ft.
 STORAGE PROVIDED: 6471 cu. ft.
 BOTTOM DIMENSIONS: 15-95
 DEPTH: 3'
 SIDE SLOPES: 2:1
 BOTTOM ELEV.: 525.0
 CREST ELEV.: 528.0
 WEIR LENGTH: 14.5

SEDIMENT TRAP No. 2
 TYPE OF TRAP: ST-V
 DRAINAGE AREA TO TRAP: 3.45 AC
 STORAGE REQUIRED: 6210 cu. ft.
 STORAGE PROVIDED: 7299 cu. ft.
 BOTTOM DIMENSIONS: 15-08
 DEPTH: 3'
 SIDE SLOPES: 2:1
 BOTTOM ELEV.: 515.00
 CREST ELEV.: 518.00
 WEIR LENGTH: 14.07

SEDIMENT BASIN No. 1
 TYPE OF BASIN: TEMPORARY USE OF PERMANENT STORMWATER MANAGEMENT POND
 DRAINAGE AREA TO POND: 9.25 Acres
 STORAGE REQUIRED: 16,650 cu. ft.
 STORAGE PROVIDED: 66,764 cu. ft.
 OULET ELEV.: 543.75
 STORAGE AT CLEAN-OUT ELEV.: 6,660 cu. ft.
 CLEAN-OUT ELEV.: 543.45

As-Built Certification
 I hereby certify that the facility shown on this plan was constructed as shown on this As-Built plan and meets the approved plans and specifications.

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
 John M. H. H. 8/29/90
 SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 Robert W. Ziehm 8-29-90
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Alan M. Bryan 1/16/91
 CHIEF, LAND DEVELOPMENT DIVISION DATE

Granville W. Wickland 2/1/91
 CHIEF, BUREAU OF HIGHWAYS DATE

2/14/91
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: DEPARTMENT OF PLANNING & ZONING

David C. Angle 1/16/91
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT 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 Soil Conservation District.

John M. H. H. 8/29/90
 Date

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 Natural Resources approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

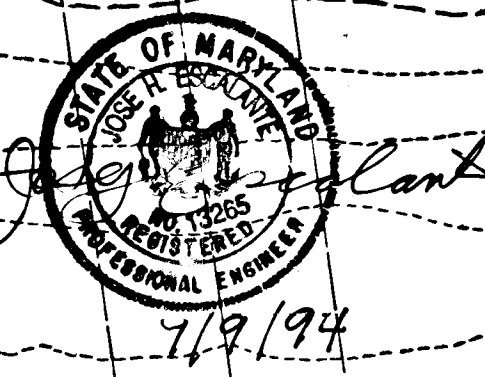
James L. Newburn 9-19-89
 Signature of Developer Date

Owner
 Paul V. Broenne
 c/o Newburn Development Corporation
 5570 Sterrett Place, Suite 201
 Columbia, Maryland 21044
 (301) 997-3815

Developer
 C & N Partnership
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Engineer
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LEGEND
 STREAM BUFFER
 100 YR. FLOODPLAIN



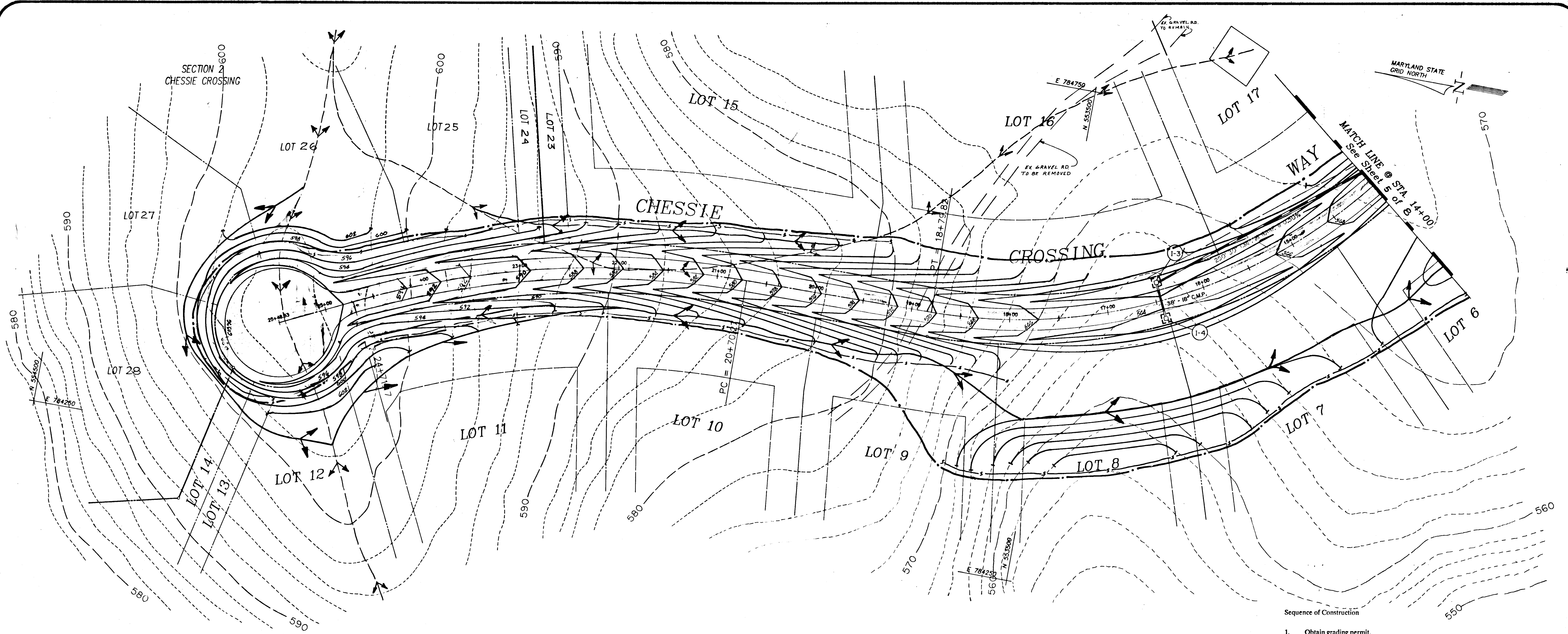
SEE SHEET 3 OF 8 FOR IMPROVEMENTS TO MORGAN STATION ROAD
 As-Built
 8/22/90

Project	8020.00	date	SEPT. 89
Illustration	JLM	engineering	JLM
scale	1" = 50'	approval	JBM

no.	description	date
1	First submission to Howard County DPZ	9/20/89
2	Revised per Howard Co. comments dated 10/18/89	10/18/89
3	Revised per Howard Co. comments dated 11/15/89	11/15/89
4	ORIGINALS SUBMITTED FOR SIGNATURES	8/27/90

Section 1 Lots 1 - 16
CHESSIE CROSSING
 Parcel 4
 Tax Map 3
 HOWARD COUNTY, MARYLAND
 ELECTION DISTRICT No. 4
GRADING & SEDIMENT CONTROL PLAN

MILDENBERG, MACHI & ASSOCIATES, INC.
 ENGINEERS • ARCHITECTS • PLANNERS
 3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
 (301) 461-0078 D.C. Metro: (301) 921-3768



Project	89020.00	Date	SEPT. '89
Illustration	RLA / TJP	Approval	J.M.
Scale	1" = 50'	Approval	J.M.

NO.	DESCRIPTION	DATE
1	ORIGINALS SUBMITTED FOR SIGNATURES	8/27/89
2	REVISED STORM DRAIN ALIGN.	4/18/90
3	REVISED PER HOWARD CO. COMMENTS DATED 8/9/89	12/10/89
4	FIRST SUBMISSION TO HOWARD COUNTY DPZ	2/20/90

Section 1 Lots 1-18
CHESSIE CROSSING
Parcel 4
Tax Map 3
HOWARD COUNTY, MARYLAND
ELECTIN DISTRICT No. 4
GRADING & SEDIMENT CONTROL PLAN AND NOTES

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
[Signature] 8/29/90
U.S. SOIL CONSERVATION SERVICE DATE

THE DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
[Signature] 8-29-91
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 1/1/91
CHIEF, LAND DEVELOPMENT DIVISION DATE

[Signature] 1/11/91
CHIEF, BUREAU OF HIGHWAYS DATE

[Signature] 1-14-91
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: DEPARTMENT OF PLANNING & ZONING
[Signature] 1/10/91
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT 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 Soil Conservation District.
[Signature] SEPT 20, 1989
Date

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 Natural Resources approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.
[Signature] 9-19-89
Signature of Developer Date

SEDIMENT CONTROL NOTES

- 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 (392-2437).
- 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 redistribution, 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 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 Seeding (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 5952A.
Area disturbed 650,402 sq ft
Area to be roofed or paved 62,500 sq ft
Area to be vegetatively stabilized 601,902 sq ft
Total Cut 22,500 cu yd
Offsite waste/borrow area location 4/4
- 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.

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 one of the following schedule.

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square feet) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 square feet) 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 square feet).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square feet) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 square feet) before seeding. Harrow or disc into upper three inches of soil.

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 square feet) of Kentucky 31 Tall Fescue. For the period May 1 through July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 square feet) of Weeping Lovegrass. During the period of October 16 through 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 square feet) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 square feet) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 square feet) for anchoring.

Refer to the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for rate and methods not covered.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseeding.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redistributed 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 square feet).

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 ryegrass (3.2 lbs/1000 square feet). For the period May 1 through August 14, seed with 3 lbs per acre of Weeping Lovegrass (.07 lbs/1000 square feet). For the period November 16 through 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 square feet) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 square feet) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 square feet) for anchoring.

Refer to the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for rate and methods not covered.

LEGEND:

- SILT FENCE
- PERIMETER DIKE SWALE
- STABILIZED CONSTRUCTION ENTRANCE
- DIVERSION DIKE
- INLET PROTECTION
- EXISTING DRAINAGE AREA
- PROP. DRAINAGE AREA
- LIMIT OF DISTURBANCE

- Sequence of Construction
- Obtain grading permit.
 - Construct stabilized construction entrance with mountable berm.
 - Clear and grub in area of stormwater management pond.
 - Construct permanent stormwater management pond and sediment traps. Stabilize using temporary seeding practices. Install dewatering device over 6" SWM outfall pipe. Keep in place until site is stabi stabilized.
 - Install silt fence.
 - Clear and grub for Chessie Crossing Way.
 - Install sediment traps 1 and 2 and perimeter dike swales. Stabilize using temporary seeding methods.
 - Construct storm drain system as shown on plan. Place straw bale dikes or silt fence downslope of daily construction activities before commencing work.
 - Install inlet protection devices.
 - Bring road to grade, install base course and stabilize side slopes using permanent seeding methods.
 - Upon stabilization of graded areas, all accumulated sediment within the storm drain system shall be removed.
 - During construction, sediment shall be removed from the stormwater management pond and traps when the clean-out elevation has been reached.
 - Clean base course. Apply tack coat to base course and lay surface course. The stabilized construction entrance may be removed to facilitate paving, with the approval of the Sediment Control Inspector.
 - Stabilize all shoulders using permanent seeding method.
 - Inspect all sediment control devices daily and after each rainfall. Repair as necessary.
 - When all contributing areas to sediment control devices have been permanently stabilized, remove sediment control devices, grade area disturbed, and provide permanent seed and mulch.
 - Contractor shall remove sediment and flush storm drain system at end of construction period.
 - Contractor shall dewater the stormwater management pond and remove accumulated sediment. The pond shall be graded in accordance with this plan and stabilized using permanent seeding methods.
 - Install diversion dike from Chessie Crossing Way open section ditch to clean water outfall. Install check dam at outfall.
 - Clear and grub for Morgan Station Road widening.
 - Bring right-of-way and side slopes to grade and stabilize side slopes and shoulders using permanent seeding methods. Install check dam at outfall.
 - Install surface course.
 - When all contributing areas to sediment control devices have been permanently stabilized, remove sediment control devices, grade area disturbed, and provide permanent seed and mulch.
 - Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter slopes and all slopes greater than 3:1; or b) 14 days for all other disturbed graded areas on the project site.
 - Notify Howard County Office of Inspection and Permits for final inspection at completion of project.

1617



Owner
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(301) 997-3815

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Project	99020.00	Date	SEPT. '89
Illustration	J.M.	Engineering	J.M.
LAR	J.M.	Approval	J.M.
Scale	1" = 200'		

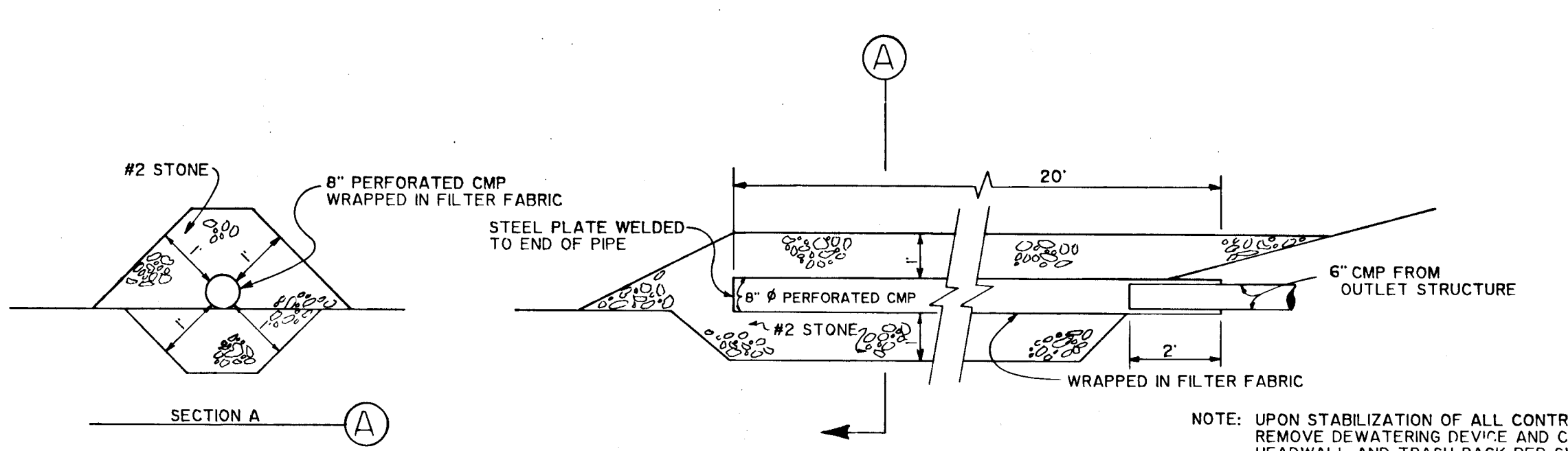
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	27		02/20/89	REVISED PER HOWARD CO. COMMENTS DATED 12/18/89
	28		02/20/89	REVISED PER HOWARD CO. COMMENTS DATED 12/18/89

Section 1 - Lots 1 - 18
CHESSIE CROSSING
 Parcel 4
 Tax Map 3
 HOWARD COUNTY, MARYLAND
 ELECTION DISTRICT No. 4
SEDIMENT CONTROL DETAILS & DRAINAGE AREA MAP

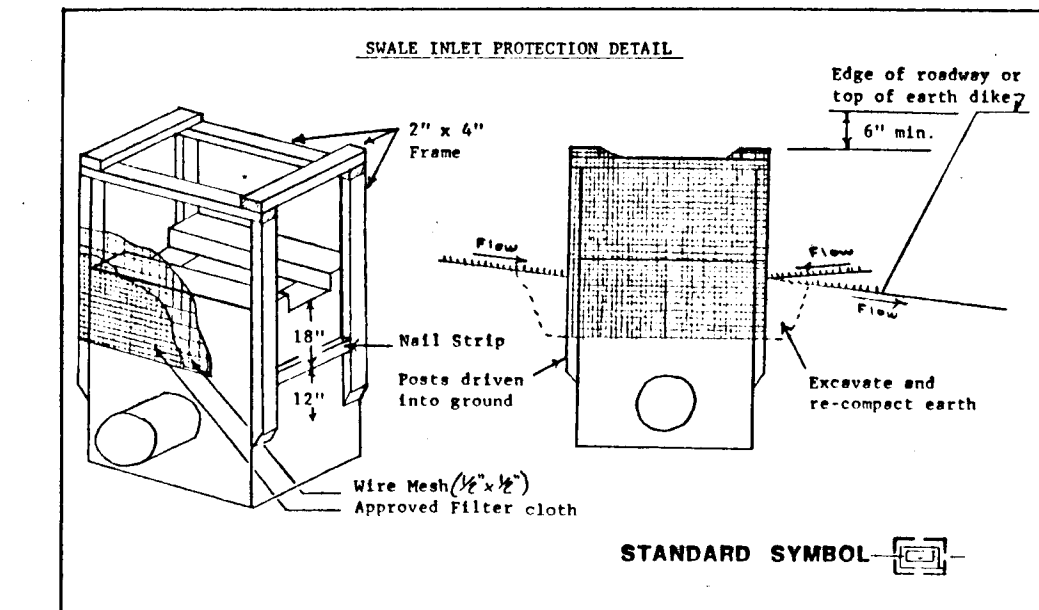
MILDENBERG, MOCHI & ASSOCIATES, INC.
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 3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
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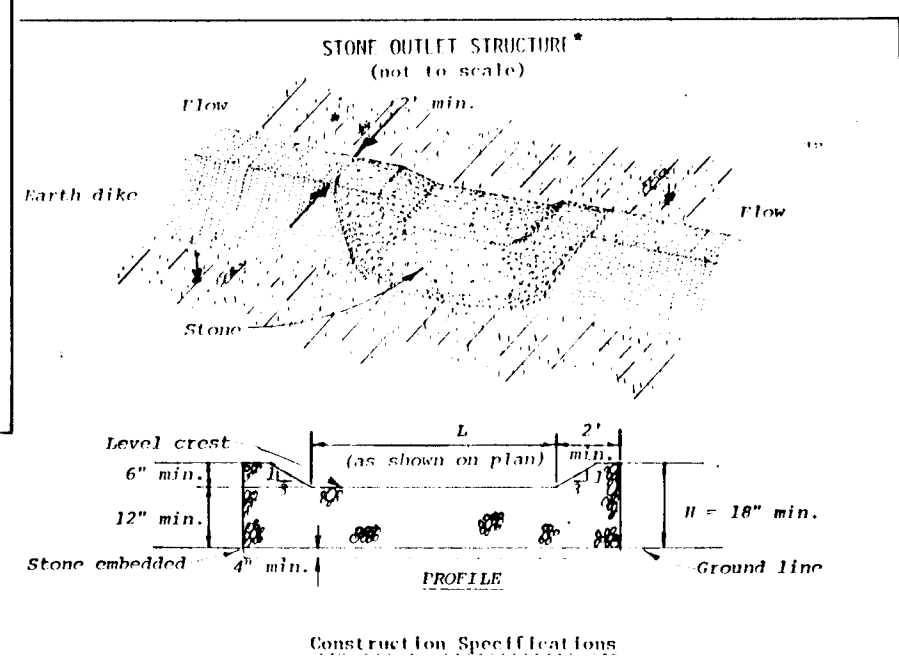
DRAINAGE AREA MAP
(ZONE = R)



DEWATERING DEVICE
NOT TO SCALE



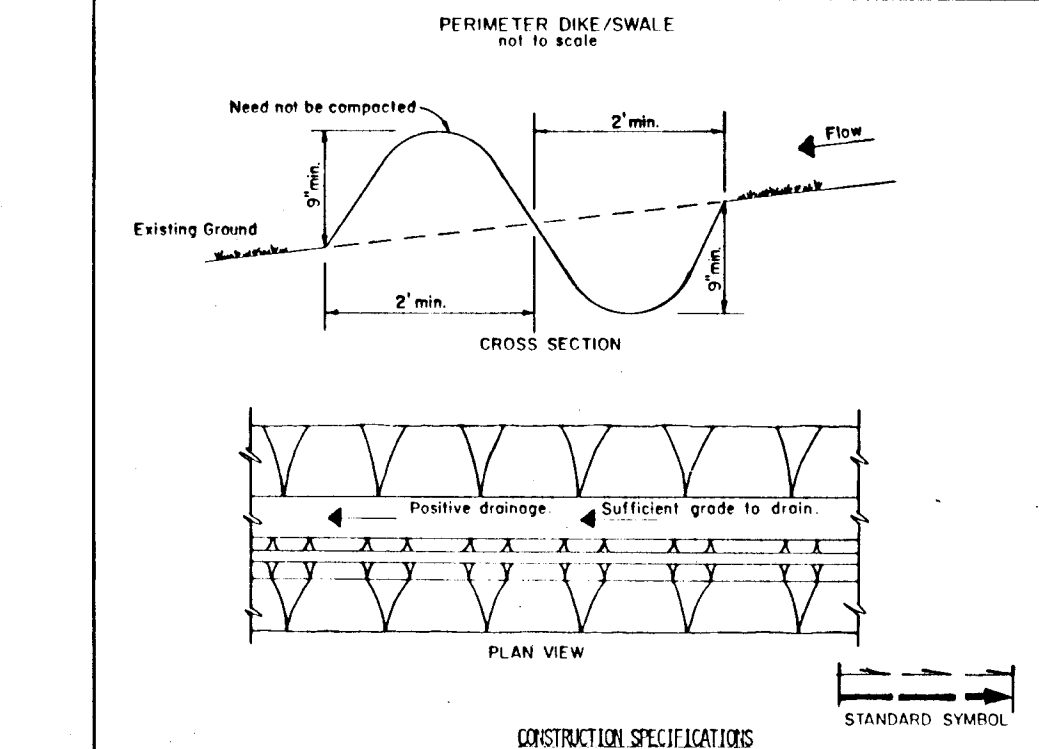
1. A swale, ditchline or yard inlet protection.
2. Excavate completely around inlet to a depth of 18" below notch elevation.
3. Drive 2 x 4 post 1' into ground at four corners of inlet. Posts must meet at post.
4. Stretch filter cloth tightly over wire mesh, the cloth must extend from top of frame to 18" below inlet notch elev. Fasten securely to frame. Posts must meet at post, be overlapped and folded, then fastened down.
5. Backfill around inlet in compacted 4" layers until layer of earth is even with notch elevation on side and top elevation on sides.
6. If the inlet is not in a low point, construct a compacted earth dike in the ditchline below it. The top of this dike is to be at least 6" higher than the top of frame (weir).
7. This structure must be inspected frequently and the filter fabric replaced when clogged.



1. The stone shall be crushed stone. Gravel may be used if crushed stone is not available. The stone shall meet FEMA Stone No. 2 or ASTM designat H33 Stone No. 2 or 7A.
2. The crest of the stone dike shall be at least six inches lower than the lowest elevation of the top of the earth dike and shall be level.
3. The stone outlet structure shall be embedded into the soil a minimum of four inches.
4. The minimum length, in feet, of the crest of the stone outlet structure shall be equal to six times the number of acres of contributing drainage area.
5. The stone outlet structure shall be inspected after each rain, and the stone shall be replaced when the structure ceases to function as intended due to silt accumulation among the stone, without, construction traffic damage, etc.

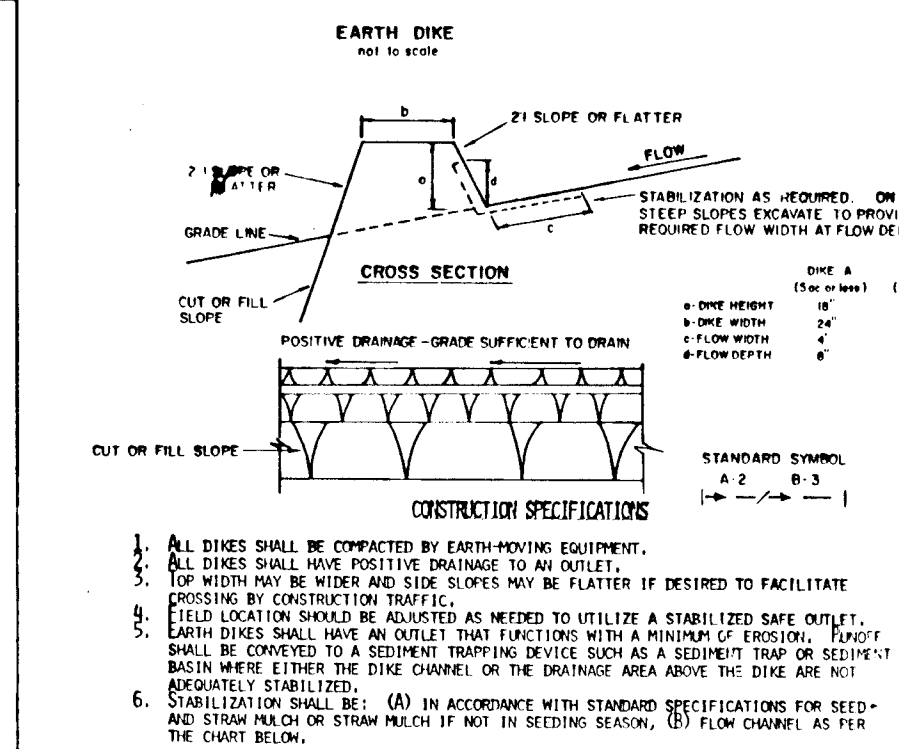
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	INLET PROTECTION DETAIL not to scale	STANDARD DRAWING IPD-1
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U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MD.	STONE OUTLET STRUCTURE DETAIL not to scale	Standard Drawing ST-1
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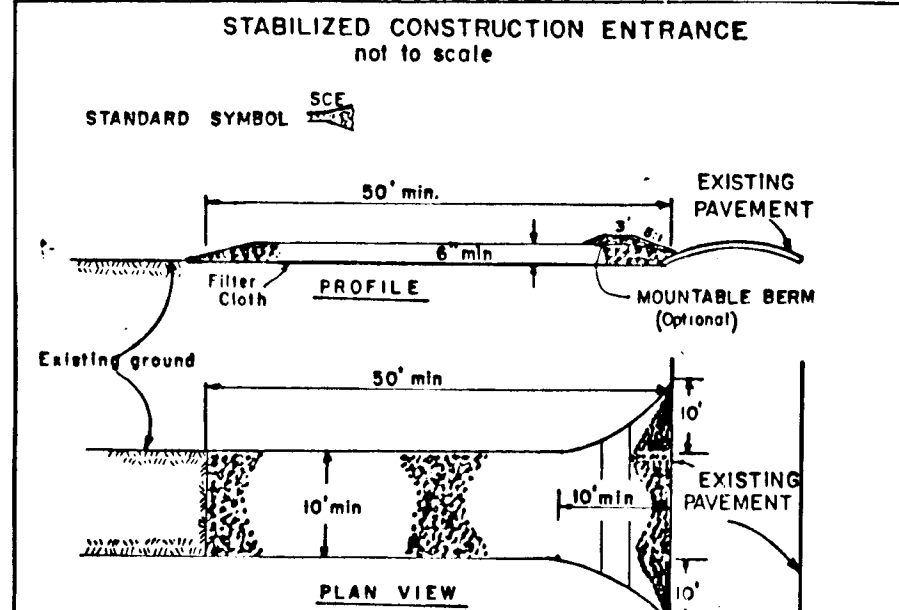
1. ALL PERIMETER DIKE/SWALE SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT MIN. SLOPE OF 2%.
4. THE SWALE SHALL BE EXCAVATED OR SLOTTED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THE CHARTS.
5. STABILIZATION OF THE AREA DISTURBED BY THE DIKE AND SWALE SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND SPECIFICATION FOR SEED AND STRAW MULCH, AND SHALL BE DONE WITHIN 30 DAYS.
6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	PERIMETER DIKE/SWALE not to scale	Standard Drawing PDS-1
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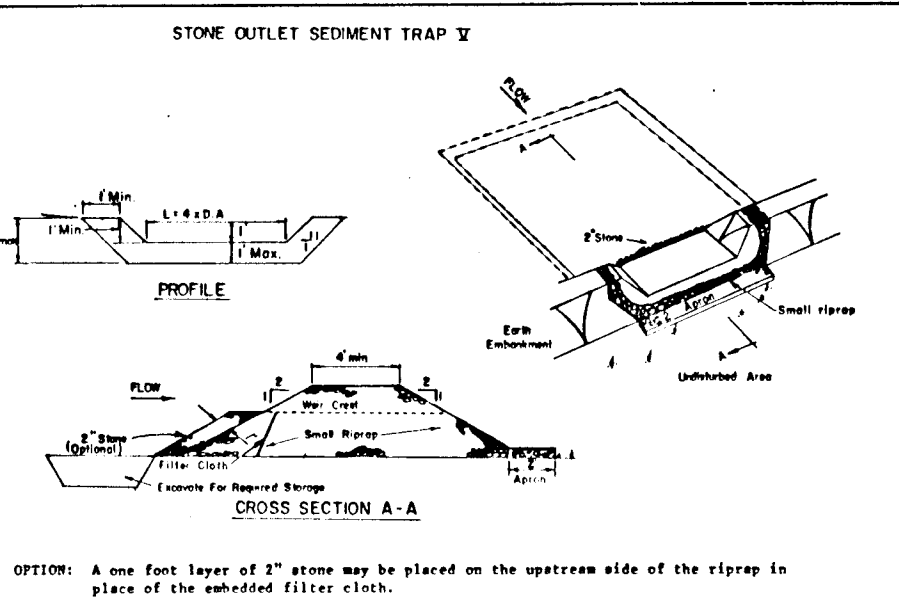
1. ALL DIKES SHALL BE CONSTRUCTED BY EARTH RETENTION EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. TRAFFIC SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT TRAP WITHIN THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE. THE DIKE IS NOT TO BE INSTALLED IN A LOCATION WHERE IT WILL INTERFERE WITH THE DRAINAGE AREA ABOVE.
6. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON; (B) FLOW CHANNEL AS PER THE CHART BELOW.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	EARTH DIKE not to scale	STANDARD DRAWING ED-1
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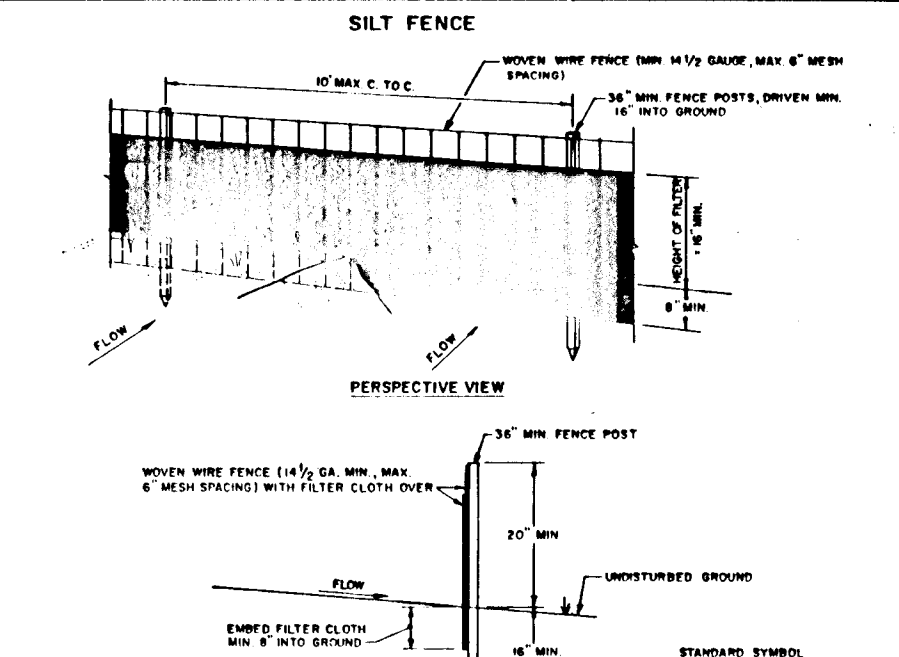
1. Stone dike - Use 3" stone, or crushed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. The stone used in the outlet shall be small riprap 4"-8" along with a 1" thickness of 2" aggregate placed on the up-slope side on the small riprap embedded filter cloth in the filter.
5. Filter cloth - Will be placed over the entire area prior to placing of stone. Filter cloth will be required on a single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrance shall be piped across the entrance. If piping is impractical, a mountable berm with 3:1 slopes will be required.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking of flowing or sediment onto public rights-of-way. This may require periodic top dressing with additional stone as condition demand and repair and/or cleaning of any manholes used to trap sediment. All sediment applied, deposited, washed or tracked onto public rights-of-way must be removed immediately.
8. Weeding - Weeds shall be cleaned to remove adjacent prior to entrance on a stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	STABILIZED CONSTRUCTION ENTRANCE not to scale	Standard Drawing SC-1
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1. Area under sediment trap shall be cleared, grubbed and stripped of any vegetation and root mat. The soil area shall be cleaned.
2. The fill material for the sediment trap shall be free of roots and other woody vegetation as well as organic matter, rocks, organic material or other objectionable material. The sediment trap shall be constructed by excavating with equipment while it is being constructed.
3. All cut and fill slopes shall be 2:1 or flatter.
4. The stone used in the outlet shall be small riprap 4"-8" along with a 1" thickness of 2" aggregate placed on the up-slope side on the small riprap embedded filter cloth in the filter.
5. Sediment shall be removed and trap returned to its original dimensions when the sediment has accumulated to the design depth of the trap.
6. The structure shall be inspected after each rain and repairs made as needed.
7. Construction operation shall be carried out in such a manner that erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	STONE OUTLET SEDIMENT TRAP not to scale	STANDARD DRAWING ST-2
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1. WOODEN FENCE TO BE FASTENED SECURELY TO STAKES WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOODEN FENCE WITH TIES OR STAPLES EVERY 24" AT TOP AND MID SECTION.
3. WHEN THE SECTIONS OF FILTER CLOTH ALIGN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FASTENED.
4. MAINTENANCE SHALL BE PROVIDED AS NEEDED AND MATERIAL REMOVED WHEN NEEDED TO DEVELOP IN THE SILT FENCE.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	SILT FENCE not to scale	STANDARD DRAWING SF-1
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REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
 HOWARD SOIL CONSERVATION SERVICE
 DATE: 8/29/90

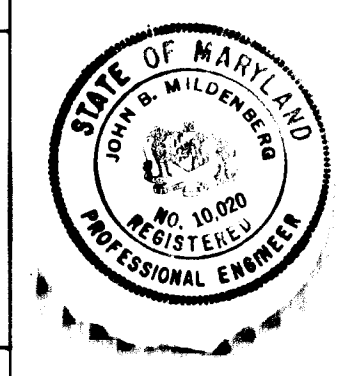
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 HOWARD SOIL CONSERVATION DISTRICT
 DATE: 8-29-90

APPROVED: HOWARD COUNTY, DEPARTMENT OF PUBLIC WORKS
 DATE: 1/11/91
 APPROVED: DEPARTMENT OF ENGINEERING
 DATE: 1-14-91

APPROVED: DEPARTMENT OF PLANNING & ZONING
 DATE: 1/10/91

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 Soil Conservation District.
 DATE: 01/20/90

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 Natural Resources approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, or as deemed necessary.
 DATE: 9-19-89



Owner
 Paul W. Hrosaine
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Developer
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 (301) 461-0078

