

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 the 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.

DEVELOPMENT MANAGER

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ENGINEER

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APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

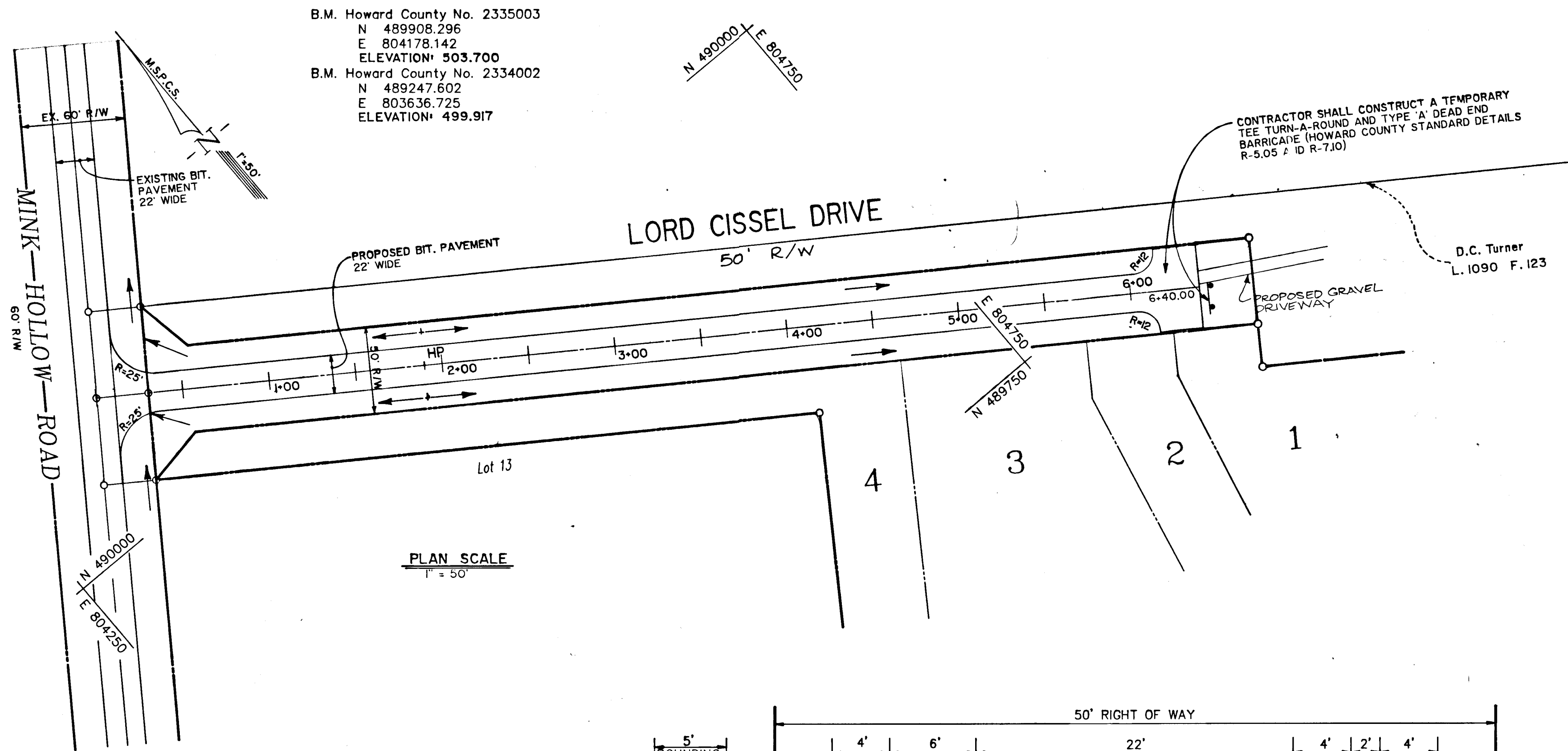
[Signature] 8/5/90
CHIEF, LAND DEVELOPMENT DIVISION DATE

[Signature] 7/23/90
CHIEF, BUREAU OF HIGHWAYS DATE

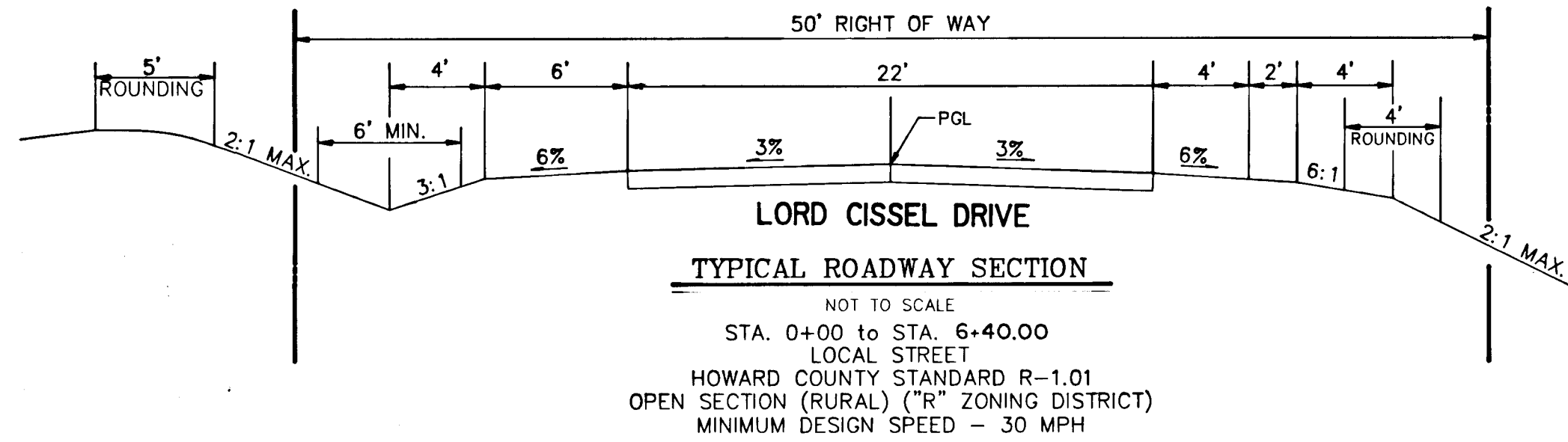
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CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: DEPARTMENT OF PLANNING & ZONING

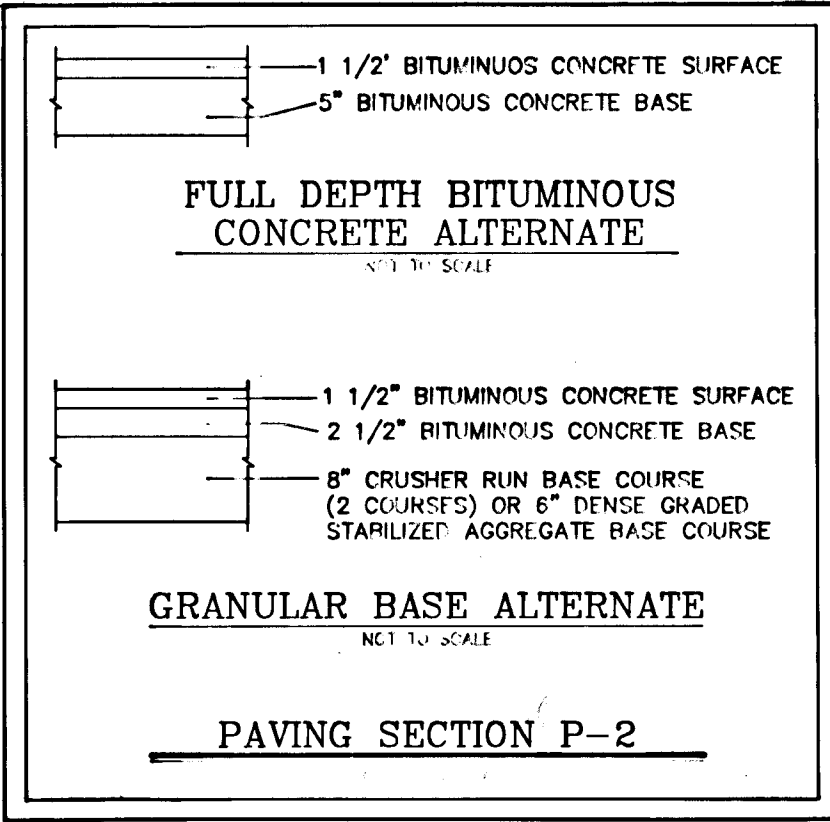
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CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE



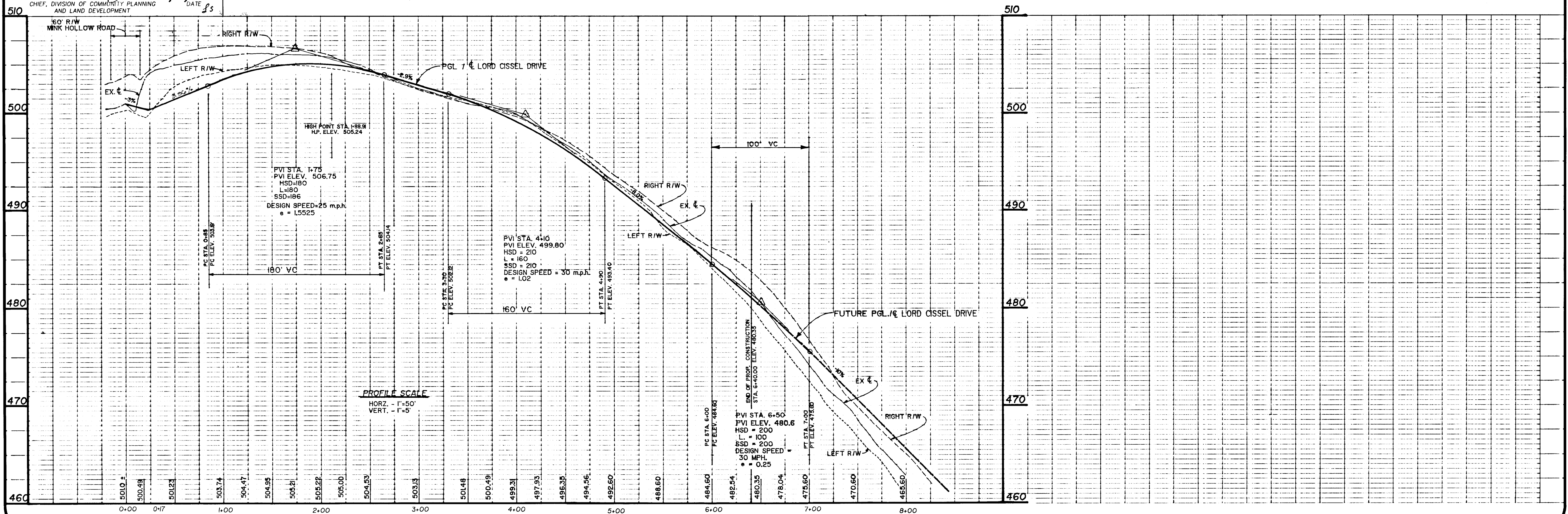
PLAN SCALE
1" = 50'



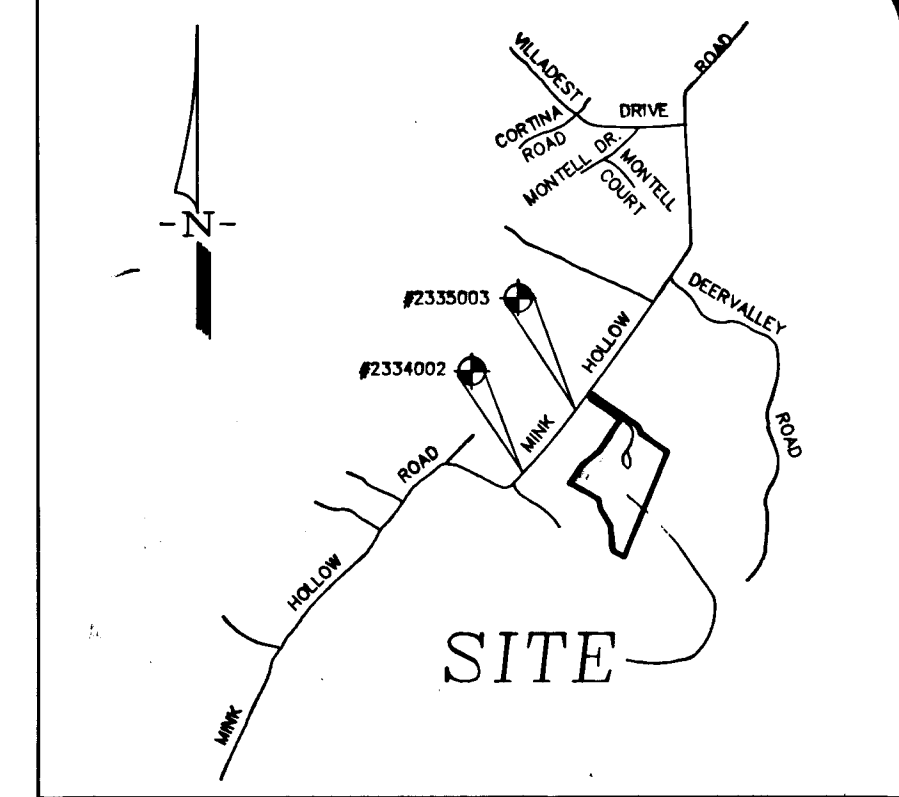
LORD CISSEL DRIVE
TYPICAL ROADWAY SECTION
NOT TO SCALE
STA. 0+00 TO STA. 6+40.00
LOCAL STREET
HOWARD COUNTY STANDARD R-1.01
OPEN SECTION (RURAL) ("R" ZONING DISTRICT)
MINIMUM DESIGN SPEED = 30 MPH



1 1/2" BITUMINOUS CONCRETE SURFACE
5" BITUMINOUS CONCRETE BASE
FULL DEPTH BITUMINOUS CONCRETE ALTERNATE
1 1/2" BITUMINOUS CONCRETE SURFACE
2 1/2" BITUMINOUS CONCRETE BASE
8" CRUSHER RUN BASE COURSE
(2 COURSES) OR 6" DENSE GRADED STABILIZED AGGREGATE BASE COURSE
GRANULAR BASE ALTERNATE
PAVING SECTION P-2



PROFILE SCALE
HORZ. - 1" = 50'
VERT. - 1" = 5'



VICINITY MAP
Scale: 1" = 2000'

Project	89043-00	Date	DEC '89
Illustration	MDG/SHD/KJM	Engineering	KJM
Scale	1" = 50'	Approval	RMM

Originals to County for Signature	7/16/90	Date	
First submission to Howard County DPZ	4/17/90	Description	
Revisions			

LOTS 1-4
CISSEL FARM ESTATES
Parcel 307
ELECTION DISTRICT No. 5
HOWARD COUNTY, MARYLAND
LORD CISSEL DRIVE - PLAN & PROFILE

MILDENBERG, MOCHI & ASSOCIATES, INC.
ENGINEERS - SURVEYORS - PLANNERS
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TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be undisturbed 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. (If not previously loosened)

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 ryegrass (3.2 lbs/1000 sf). For the period May 1 through August 14, seed with 3 lbs per acre of Weeping Lovegrass (0.07 lbs/1000 sf). 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 sf) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sf) for anchoring.

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

PERMANENT SEEDING NOTES

Apply to graded or cleared areas 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. (If not previously loosened)

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. 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 sf).
- 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. 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 sf) 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 (0.05 lbs/1000 sf) 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 sf) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sf) for anchoring.

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

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REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
DATE: 7/11/90

APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
DATE: 7/11/90

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 8/21/90

APPROVED: DEPARTMENT OF PLANNING AND ZONING
DATE: 7/23/90

APPROVED: DEPARTMENT OF ENGINEERING
DATE: 9-4-90

APPROVED: DEPARTMENT OF COMMUNITY PLANNING AND LAND DEVELOPMENT
DATE: 7/2/90

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. Moch, P.E. 3-27-90

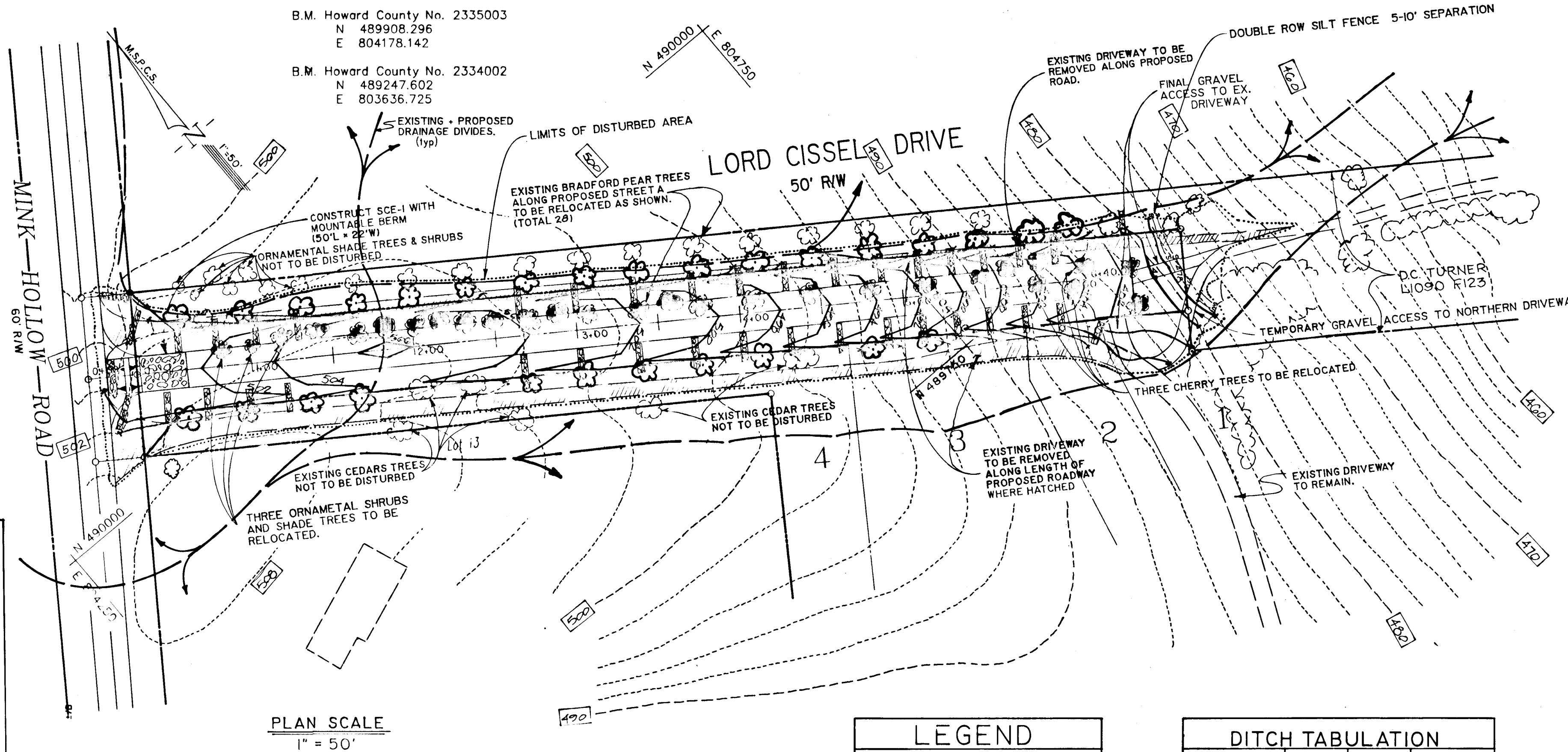
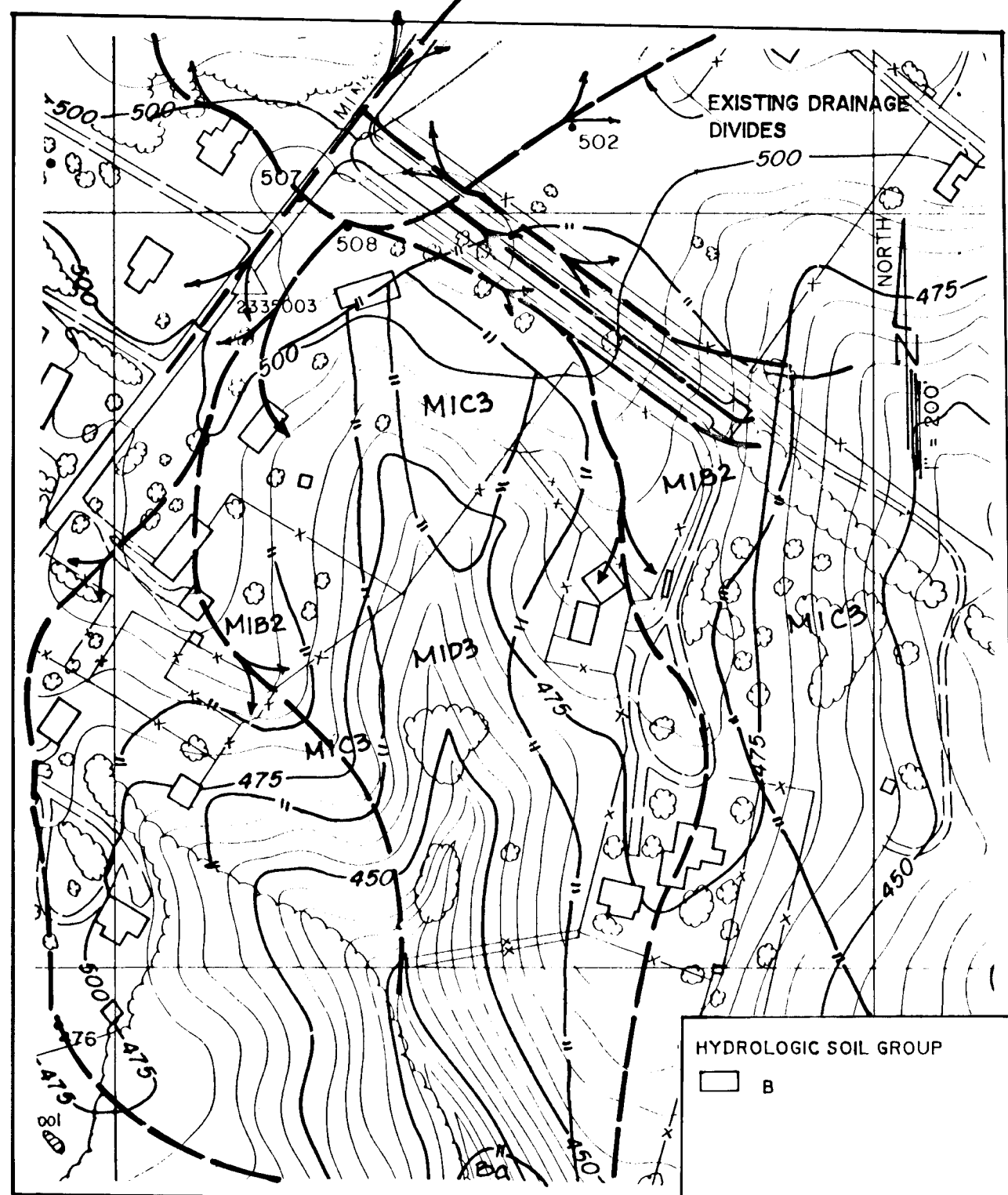
DEVELOPER'S CERTIFICATE
I/We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this project will have a certificate of attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic onsite inspection by the Howard County Soil Conservation District or their authorized agents, as are deemed necessary.

Barbara A. McElhenny 3-1-90

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. (992-2437)
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 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 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 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.
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: 0.75 ACS
Area to be Disturbed: 0.75 ACS
Area to be roofed or paved: 0.33 ACS
Area to be vegetatively stabilized: 0.42 ACS
Total Cut:
Off-Site Waste/Borrow Area Location shown on plan ACS
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 (EPW) Sediment Control Inspector.
9. Remove vegetative cover and top soil from existing fill, scarify old fill with teeth of dozer or loader. As new fill comes up tie into existing fill at least 6".

NOTE: Quantities B estimates shown are for sediment control purposes only. Contractor shall prepare his own quantity estimates to his satisfaction.



SEQUENCE OF CONSTRUCTION

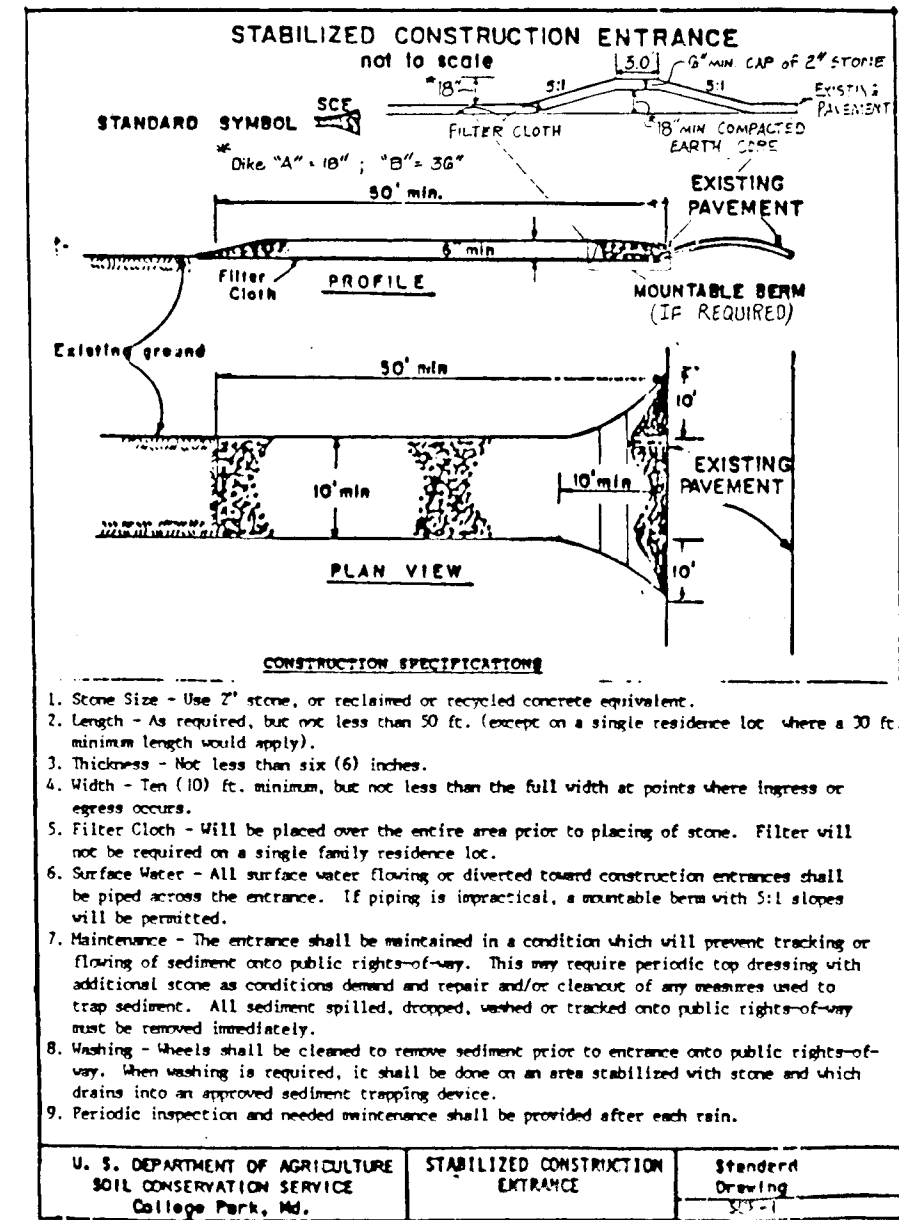
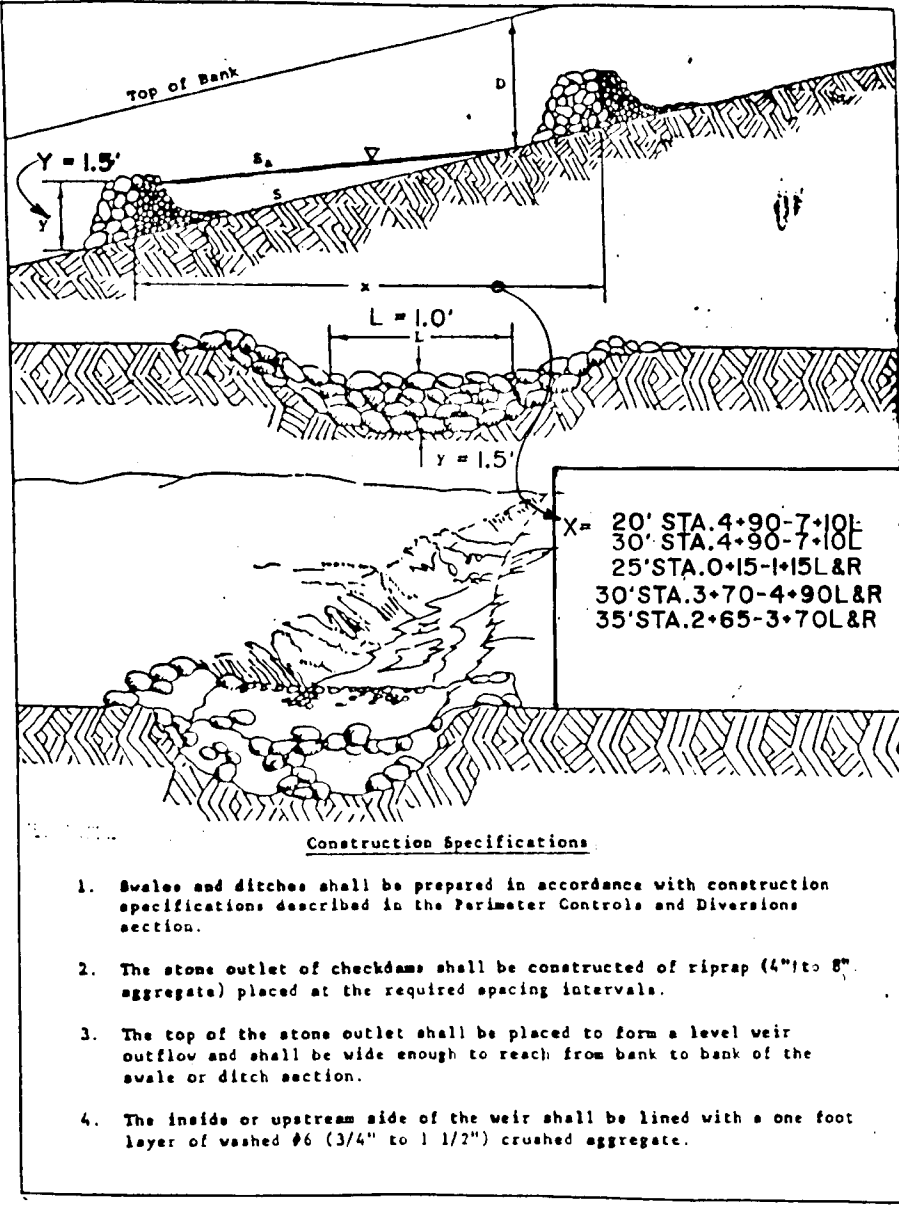
1. Obtain grading permit.
2. Remove designated trees "to be saved" and store temporarily.
3. Install temporary stabilized construction entrance.
4. Install temporary access to northern driveway from southern driveway. Southern driveway to remain in operation until base course of pavement has been installed.
5. Begin road grading. Remove northern driveway as shown. Construct temporary stone check dams in ditches as shown starting in the downstream direction and working upward.
6. Construct pavement. Connect existing driveways to proposed road. Remove southern driveway and temporary access to northern driveway.
7. Stabilize shoulders, ditch areas and side slopes with permanent seed and mulch. Replant trees as shown.
8. Inspect all sediment control devices daily and after each rainfall. Repair as necessary.
9. When all contributing areas to sediment control devices have been permanently stabilized, remove all temporary sediment control devices, grade any disturbed area and provide permanent seed and mulch.

LEGEND

- STABILIZED ENTRANCE WITH MOUNTABLE BERM.
- STONE CHECK DAM
- EXISTING TREES TO REMAIN UNDISTURBED
- TREES TO BE SAVED AND RELOCATED
- RELOCATION

DITCH TABULATION

STA.	O/S	O/C (c/s)	DEPTH	VELOCITY
0+15	O/S 55'L	1.17	0.41	2.80
6+00	O/S 30'L	1.00	0.35	3.57
6+40	O/S 30'R	1.82	0.43	4.10
7+00	O/S 30'L	2.81	0.50	4.53



Project date: 12/89
Illustration: 89043.00
Engineering: KAM
Scale: MDG/SHL
Approval: RAM
1" = 50'

7-6-90
4/17/90
Originals to county for signature
First submission to Howard County DPZ

LOTS 1 - 4
CISSEL FARM ESTATES
Parcel 307
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 5
Tax Map 40
GRADING & SEDIMENT CONTROL PLAN & DETAILS

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