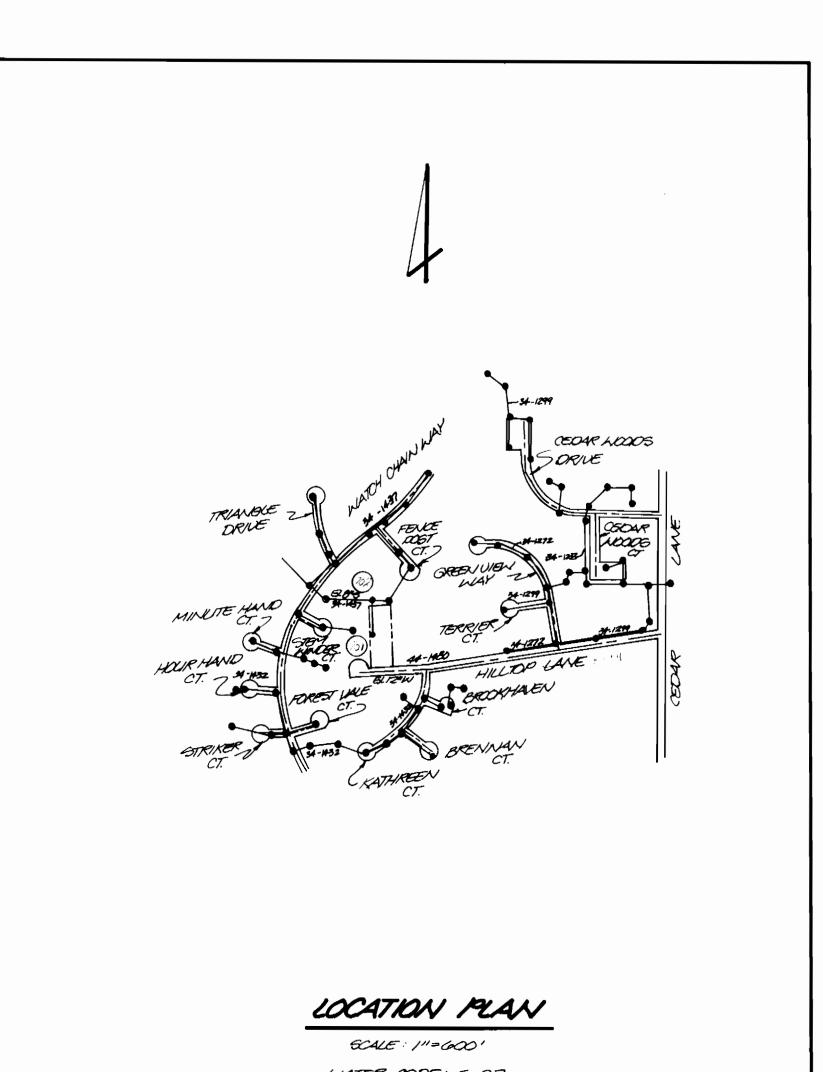
TYPE OF BUILDINGS RESIDENTIAL NUMBER OF LOTS NUMBER OF SHC'S MIDOLE PATULENT DRAINAGE AREA



WATER CODE: E-27 SENIER COIDE: 6501000

CEDAR ACRES

CONTRACT NO. 34-1950-10 HOWARD COUNTY, MARYLAND

NOTE: SEDIMENT CONTROL MEASURES FOR THIS CONTRACT SHALL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 210 OF THE SPECIFICATIONS AND WITH DRAWINGS 2 f 3 OF THIS CONTRACT, F-69-86.

REVIEW	VED FOR HON	MAD 5.C.D AND	MEETS TECHNICAL	
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BOIL O	CONSERVAT	TION DISTRICT	MIE	

OEVELOPER'S CERTIFICATE:

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEPTMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RE-SOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SECIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS DEEMED NECESSARY

PEVELOPER	

PATE

DEPARTMENT OF PUBLIC WORKS

ORECTOR OF PUBLIC WORKS	ula lat	CHIEF, BUREAU OF ENGINEERING	11- 8-8- DAT
Michael A. Ausminato for Plas CHLEF, BUREAU OF UTILITIES	11-2-89 DATE	CHIEF, LAND DEVELOPMENT DIV	11/ <b>8</b> /

BOENDER ASSOCIATES, INC. ENGINEERS PLANNERS SURVEYORS 3565 ELLICOTT MILLS DR ELLICOTT CITY, MARYLAND 21043 (301)465-7777

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	DATE: 10-18-88	ВҮ	NO.	REVISION	DATE	

TITLE SHEET

GENERAL NOTES

- I. APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY, ANY DAMAGED INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE INSPECTOR, AT THE CONTRACTORS EXPENSE.
- 2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATES COORDINATES:
- 3. ALL VERTICAL CONTROLS BRE BASED ON U.S.G.S. DATUM.
- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERTELEVATIONS.
- 5. CLEAR ALL UTILITIES BY AMINIMUM OF G", CLEAR ALL POLES BY 2'-0"MINIMUM OR TUNNEL AS REQUIRED. ANY COST INCURRED TO THE CONTRACTOR FOR TUNNELING OR BRACEING AT POLES SHALL BE INCLUDED IN UNIT PRICES BID FOR EXCAVATION AND BACKFILL.
- G. FOR DETAILS NOT SHOWN ON THE DRAWINGS USE HOWARD COUNTY STANDARD DETAILS.
- 7. FOR MATERIAL AND CONSTRUCTION METHODS USE HOWARD COUNTY STANDARD SPECIFICATIONS, W. IV, 1980 KMENDMENTS. B. CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MINIMUM OF (2) TWO WEEKS IN ADVANCE OF

BALTO. GAS & ELECTRIC CO.-UNDERGROUND GAS DISTRIBUTION CUSTOMER SERVICE: G85-0/23

- CONSTRUCTION OPERATIONS IN THE PICINITY OF PROPOSED UTILITIES AT HIS OWN EXPENSE. 9 CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST (5) FIVE WORKING DAYS BEFORE
- STARTING WORK SHOWN ON THESE PLANS:

STATE HIGHWAY ADMINISTRATION: 531-5533

ENGINEERING - DAMAGE CONTROL - 234-5621 MISS UTILITY" - 1-559-0100

CHESAPEAKE & POTOMAC (C&P) TELEPHONE CO.: 725-9976 AMERICAN TELEPHONE & TELEGRAPH - CABLE LOCATION DIVISION: 393 - 3553 COLONIAL PIPELINE CO : 781-4641

BUREAU OF UTILITIES HOWARD COUNTY: 992-2366

- 10. TREES ARE TO BE PROTECTED FROM DAMMGE TO MAXIMUM EXTENT. TREES LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOYED OR DAMAGED BY THE CONTRACTOR.
- II. CONTRACTOR SHALL REMOVE TREES, STUMPS, AND ROOTS ALONG LINE OF EXCAPATION AS DIRECTED BY INSPECTOR. PAYMENT FOR SUCH REMOYAL SHALLBE INCLUDED IN THE UNIT PRICE BID FOR EXCAYATION AND BACKFICC.
- 12. PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY BOMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION & MAINTENANCE OPERATIONS.
- 13. ALL WATER MAINS TO BE DIP CLASS SE, UNLESS OTHERWISE NOTED 14. TOP OF ALL WATER MAINS TO HAVE A MINIMUM OF 3 1/2' COVER, UNLESS OTHERWISE NOTED.
- 15. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES. IG. BLOCK ALL FITTINGS WITH CONCRETE.
- 17. BURY LINE ELEVATIONS ON FIRE HYDRANTS SHALL BE SET TO THE ELEVATIONS SHOWN ON THE DRAWINGS. BLL FIRE HYDRANTS SHALL BE STRAPPED F BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL MROUND THE HYDRANTS TO BE COMPACTED IN ACCORDANCE WITH SECTION 10.03, 10.08 OF THE STANDARD SPECIFICATIONS.
- 18. ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN OUTSIDE METER SETTING.
- 19. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING SYSTEM.
- 20. ALL SEWER MAINS SHALL BE C.S. P.K., V.C.P.K., P.K.C. OR UNLESS OTHERWISE NOTED. 21. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'O" OF EXTERIOR MANHOLE WALL.

FITTINGS 3" THROUGH IZ" FOR WATER AND OTHER LIQUIDS.

AS-DUILT

- 22. ALL MANHOLES SHALL BE 4'-O" INSIDE DIAMETER, UNLESS OTHERWISE NOTED. 23. WATER MAIN & WATER HOUSE CONNECTION LINES MUST HAVE A MINIMUM OF ONE FOOT SEPARATION FROM
- THE SANITARY SEWER AND SEWER HOUSE CONNECTIONS AS THEY CROSS. EXCEPT AT CROSSINGS, WATER \$ SEWER LINES SHALL HAYE A MINIMUM HORIZONTAL SEPERATION OF 10! 24. ALL DIP FITTINGS SHALL BE IN ACCORDANCE WITH MWWA SPECIFICATION C-153 DUCTILE IRON COMPACT

3/4" WLHC. 28 LF CAMBRIDGE LU WAY THE MAYER TORUS, HISC. MANHOURS 2 ATLANTIC CONCRETE PREDUCTS 105 LF I" WHO &5 cF CAMBRIDGE IFE 70 UF 41 SHO 60/11 MATICNAL B'SENER MAIN 28**3** CF NATIONAL ITEM ESTM'D AS-BUILT MATERIAL SUPPLIER QUANTITIES

CEDAR ACRES LOTS 283-286

5 TH ELECTION DISTRICT CONTRACT NO. 34-1950-10

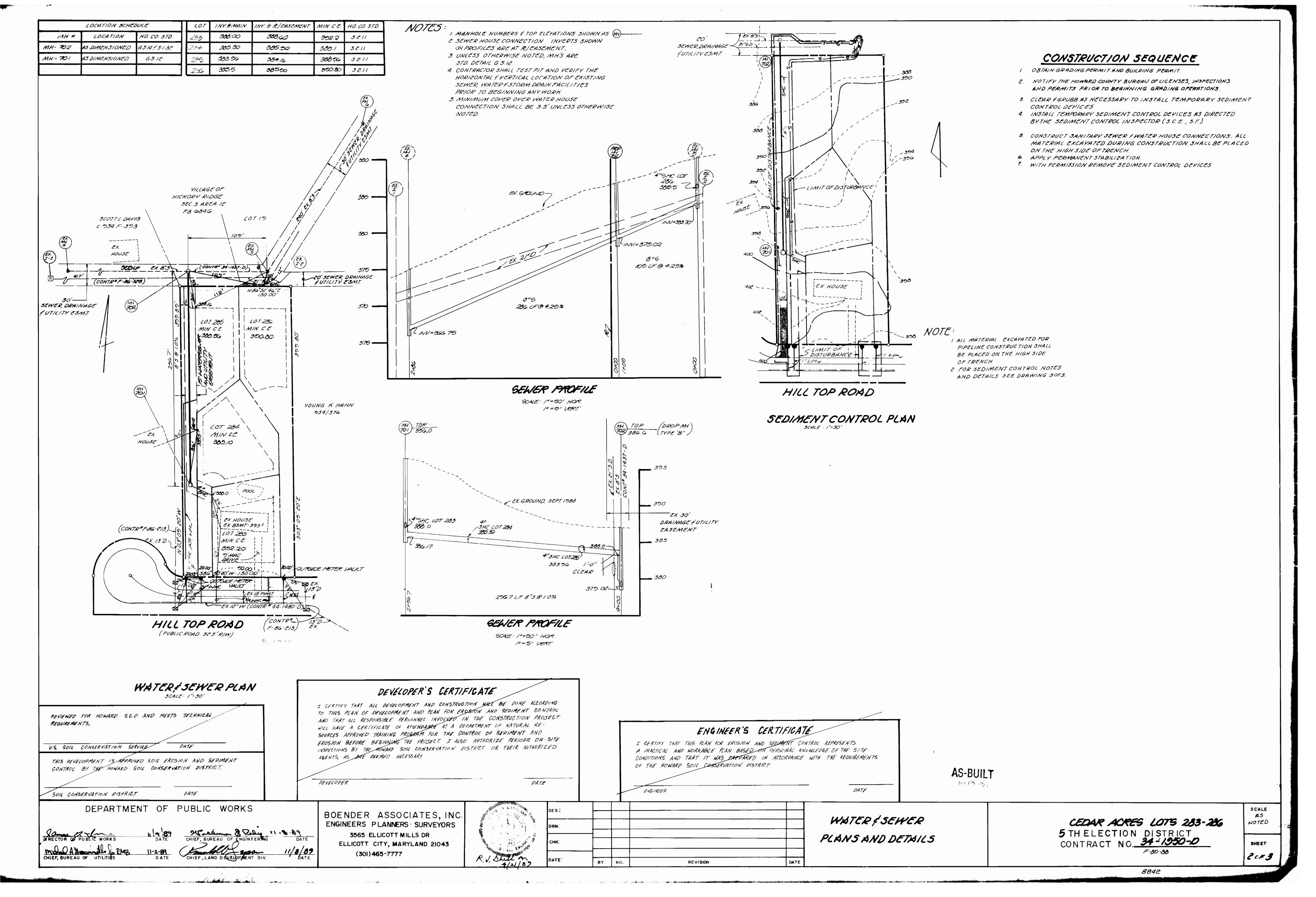
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SCALE

1"= 600"

SHEET

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## SEDIMENT CONTROL NOTES

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (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 disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
- 4) All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1. Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 5) All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52.) Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- 6) All sediment control structures are to remain inplace and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- 7) Site Analysis:

  Total Area of Site
  Area Disturbed
  Area to be roofed or paved
  Area to be vegetatively stabilized
  Total Cut
  Total Fill
  Offsite waste/borrow area location
- 8) 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.
- 10) On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, the perimeter erosion and sediment of perimeter erosion and sediment of perimeter erosion and sediment of perimeters and sediment of the perimeter erosion and sediment controls.

### TEMPORARY SEEDING NOTES

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

<u>Seedbed</u> <u>Preparation:</u> 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 sq.ft)

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with  $2\frac{1}{2}$  bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.7 lbs/1000 sq ft). For the period November 10 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply  $1\frac{1}{2}$  to 2 tons per acre 670 to 90 lbs/1000 sq ft of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

# PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

<u>Seedbed Preparation:</u> Loosen up three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

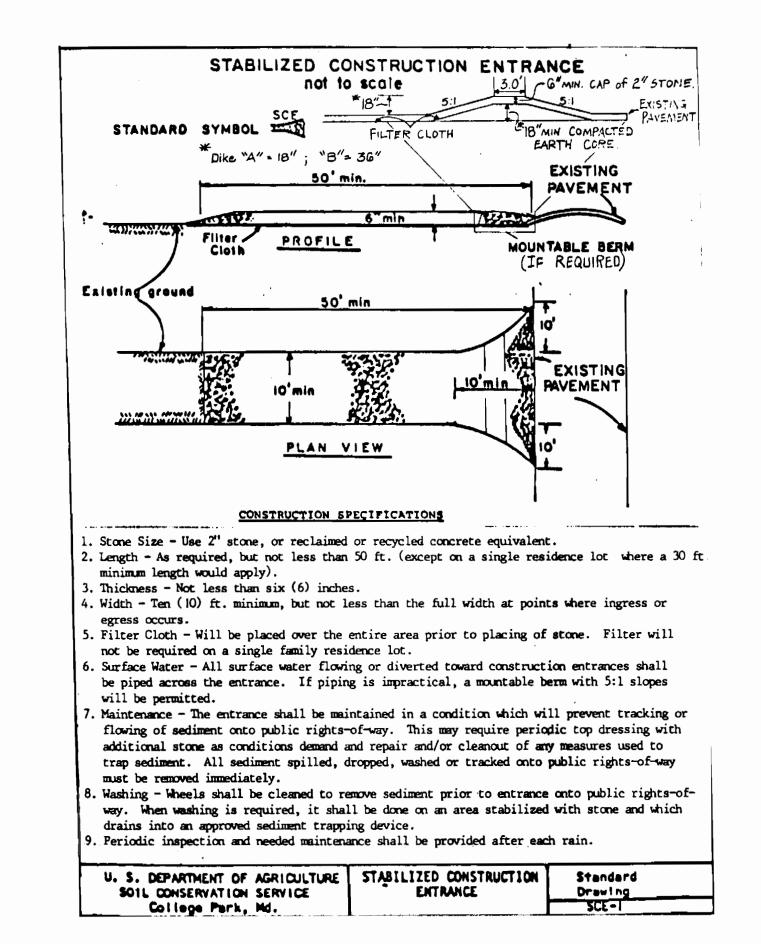
Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

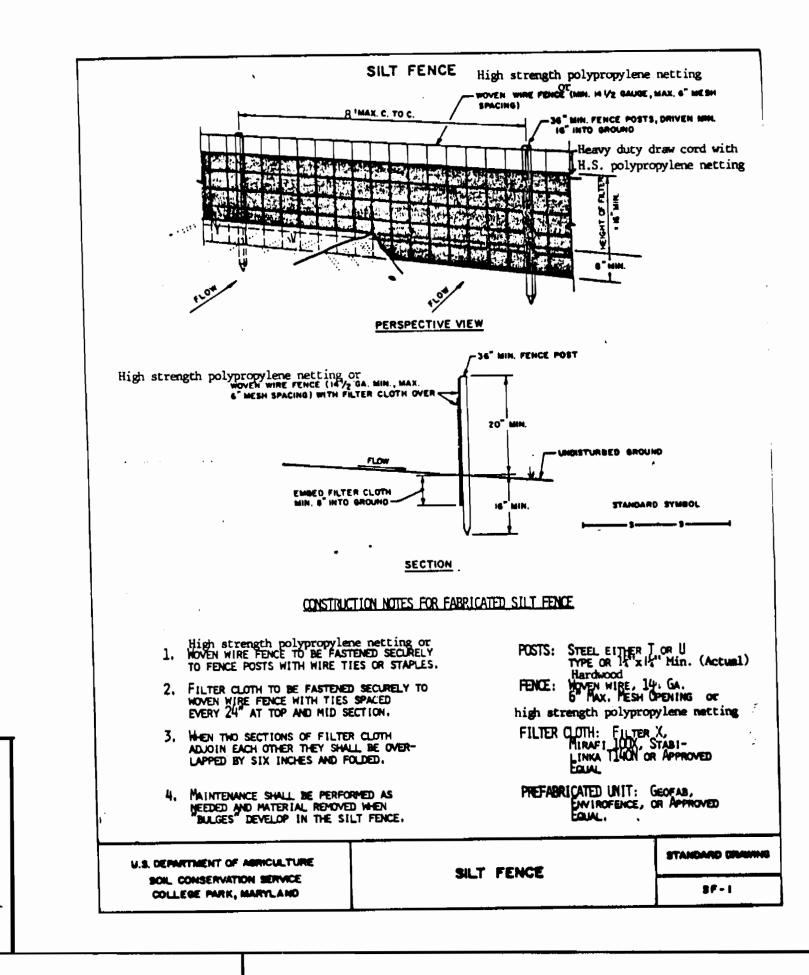
- 1) Preferred Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq. ft.)
- 2) Acceptable Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq. ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs/1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil.

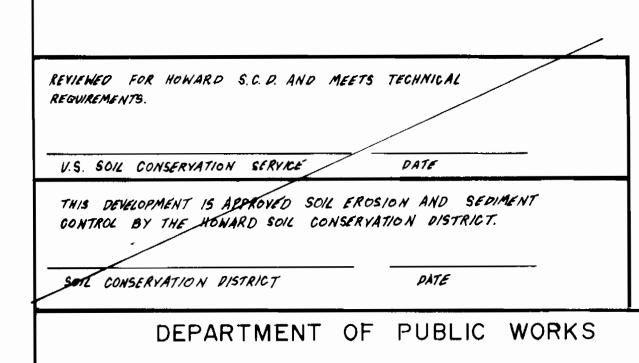
Seeding - For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 1bs per acre (1.4 1bs/1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 1bs Kentucky 31 Tall Fescue per acre and 2 1bs per acre (.05 1bs/1000 sq. ft.) of weeping lovegrass. During the period of October 10 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 1bs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

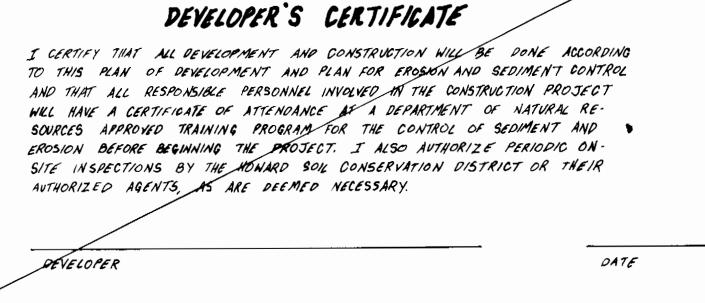
Mulching - Apply  $1\frac{1}{2}$  to 2 tons per acre (70 to 90 lbs/1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq. ft.) for anchoring.

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









BOENDER ASSOCIATES, INC.

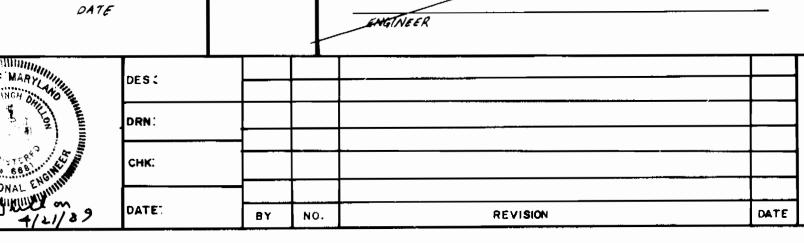
ENGINEERS PLANNERS SURVEYORS

3565 ELLICOTT MILLS DR.

(301) 465-7777

ELLICOTT CITY, MARYLAND 21043

11.8.83



ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS

A PRACTICAL AND WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE

CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS

OF THE HOWARD SOIL CONSERVATION PISTRICT.

SEDIMENT CONTROL DETAIL SHEET

DATE

CEDAR ACRES LOTS 283-286

5 TH ELECTION DISTRICT
CONTRACT NO. 34-1950-D

SCALE #5 NOTED

SHEET SOFS

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