

PERMANENT SEEDING NOTES

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

Seeded 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 schedules:

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square ft) and 600 lbs per acre 10-10-10 fertilizer (34 lbs/1000 sq ft) before seeding.
Narrow 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).

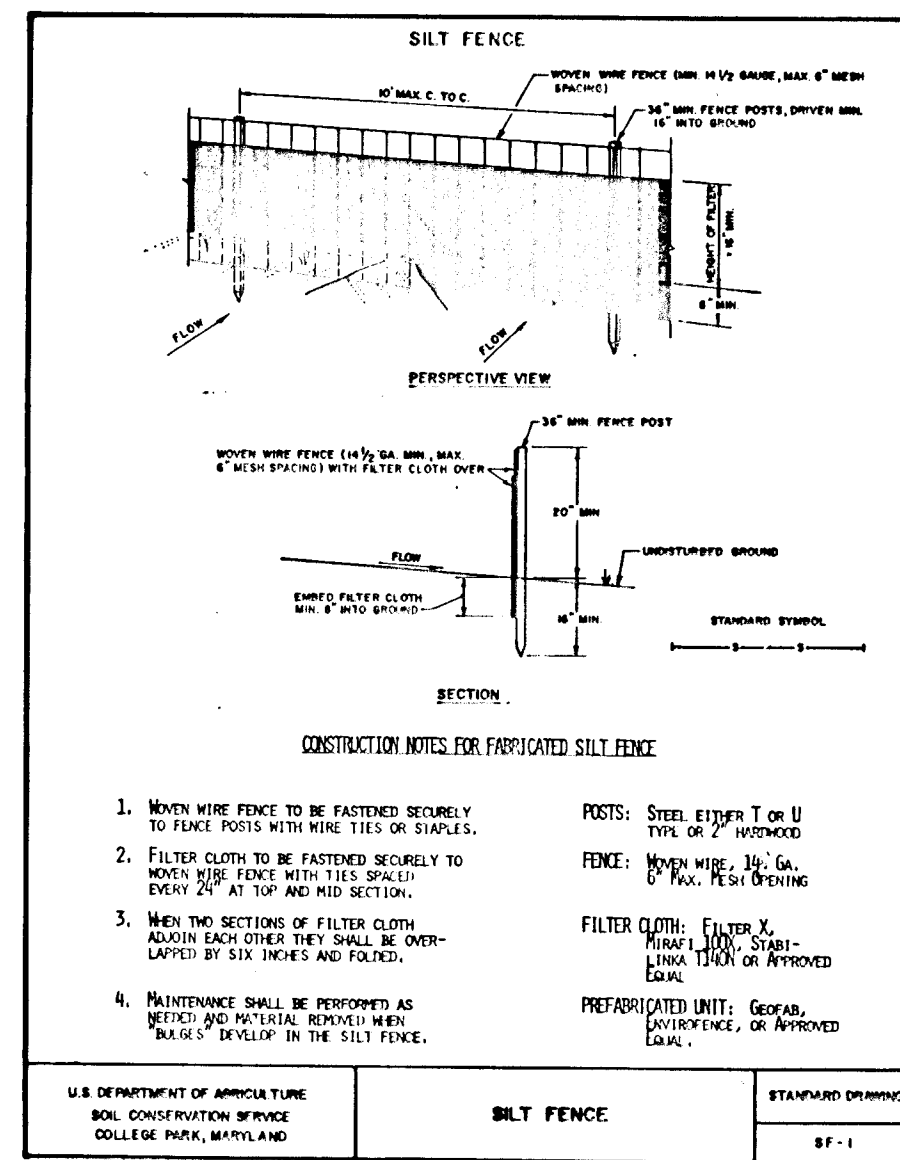
Seeding - For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 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 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 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 reseeding.

SEDIMENT CONTROL NOTES

- 1) 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.
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 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.



TEMPORARY SEEDING NOTES

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

Seeded 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 sq ft)

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 75 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 (.07 lbs/1000 sq ft). For the period November 16 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 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 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

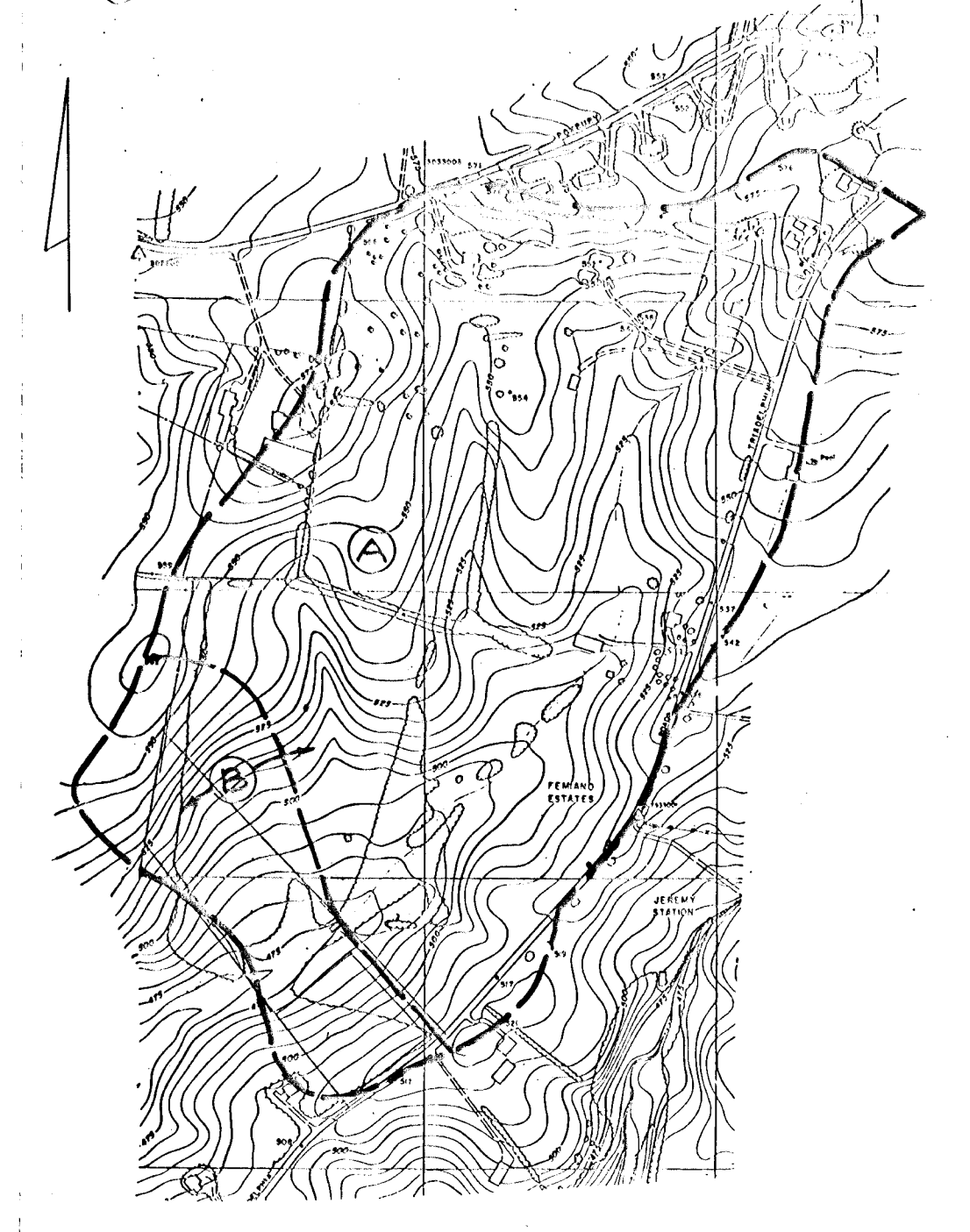
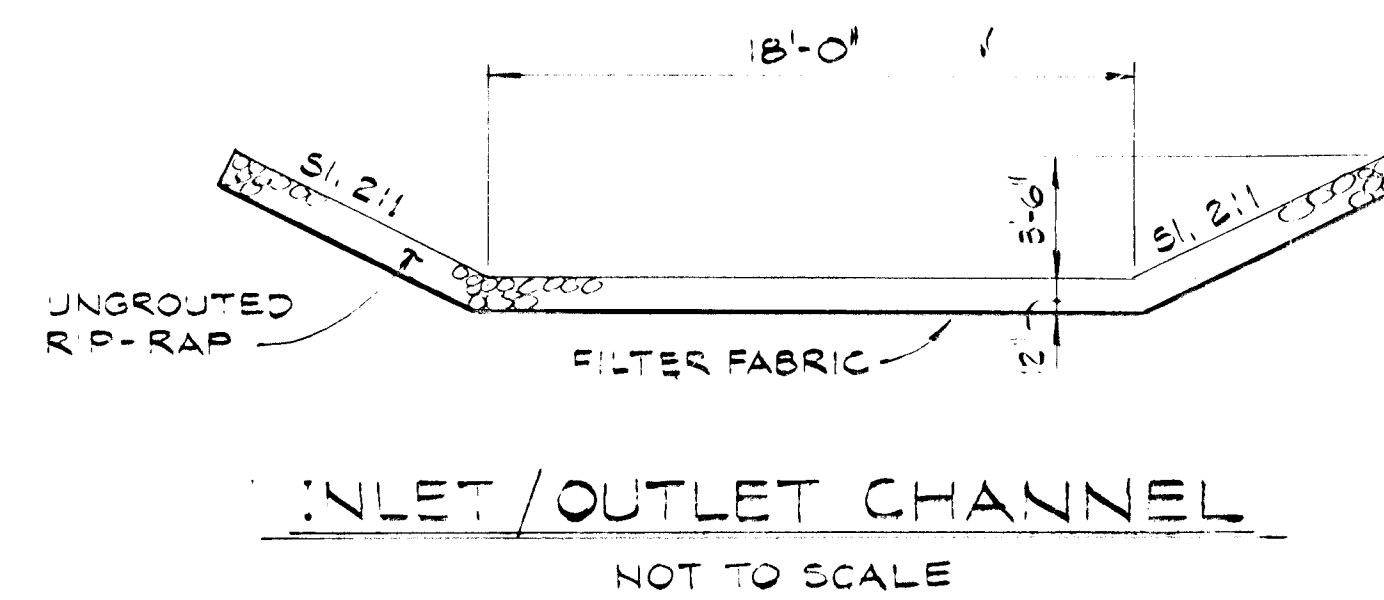
Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

SEQUENCE OF CONSTRUCTION

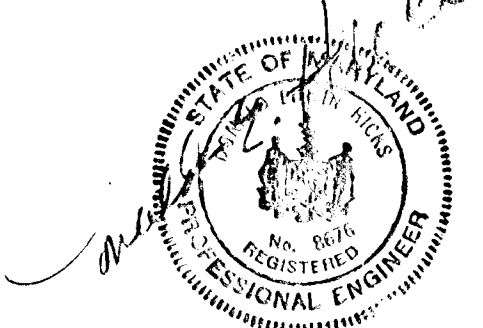
- 1. OBTAIN THE REQUIRED GRADING PERMIT.
2. INSTALL SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH APPROVED PLAN 0.5 DAYS
3. CLEAR SITE AS NECESSARY AND ROUGH GRADE ROAD 1 DAY
4. INSTALL STORM DRAIN AND RELATED FACILITIES; FINE GRADE AND SURFACE ROAD 3 DAYS
5. VEGETATIVELY STABILIZE ALL DISTURBED AREAS 2 DAYS
6. AFTER APPROVAL FROM THE INSPECTOR, REMOVE ALL SEDIMENT CONTROL MEASURES AND STABILIZE AREAS AS REQUIRED 0.5 DAYS

DESIGN DATA

AREA ACRES 6.4100 0.100
(1) 121.0 0.30 4.45' Ht. 167 cfs
(2) 139.5 0.30 4.40' Ht. 185 cfs



DRAINAGE AREA MAP
SCALE 1"=600'



APPROVED: DONALD E. HICKS DATE 4/29/87

APPROVED: DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING DATE 5-15-87
APPROVED: OFFICE OF PLANNING AND ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE 5-11-87

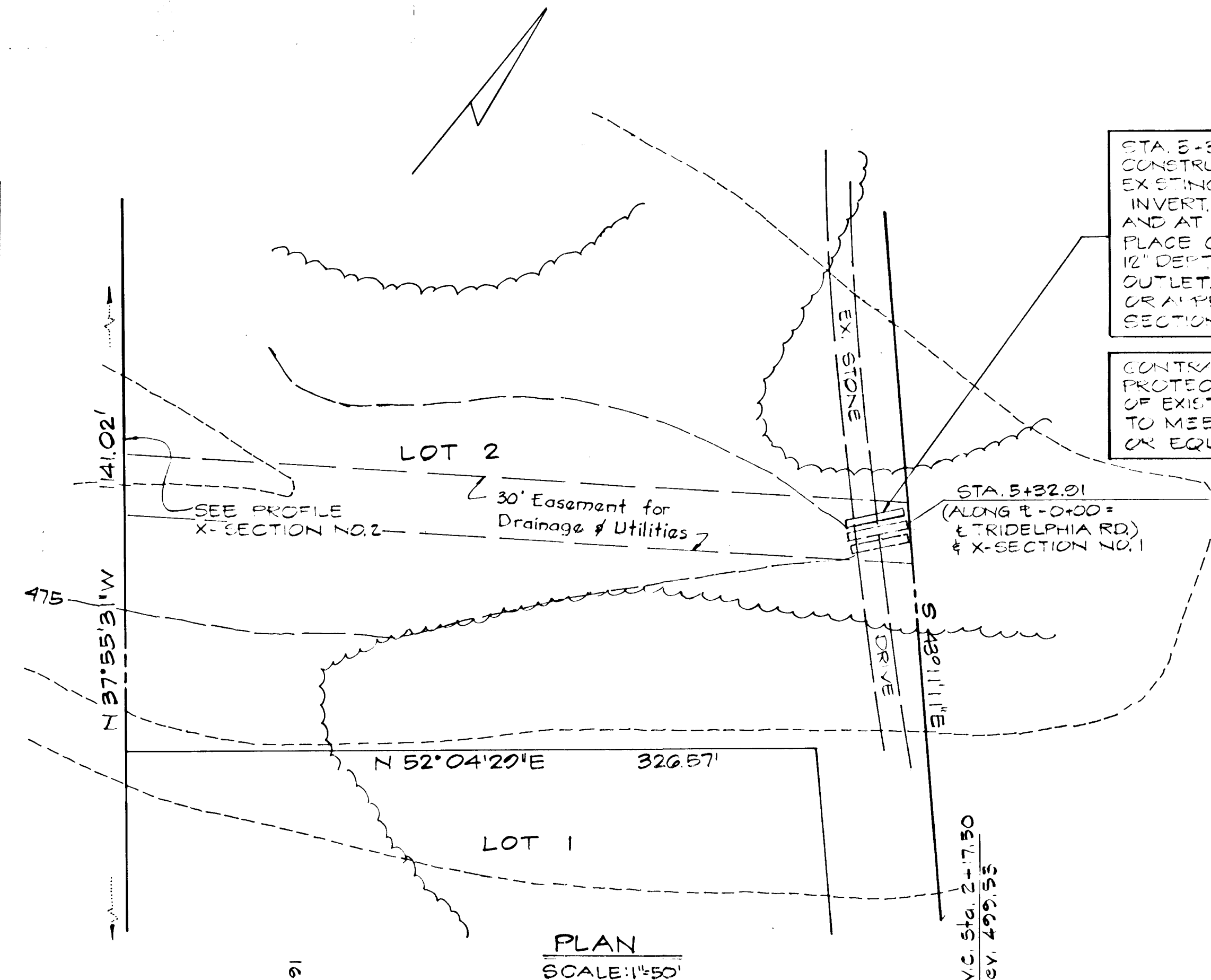
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER DATE
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR DATE

OWNER:
J.B.U. CORPORATION
4300 HERITAGE HILL LANE
ELLCOTT CITY, MD. 21043
TELEPHONE: (301) 540-2540

ENGINEER:
HICKS ENGINEERING COMPANY INC.
200 E. JOFFA RD. SUITE 402
TOWSON, MD. 21204
TELEPHONE: (301) 424-0001

LEISURE LIVING
SUBDIVISION
CULVERT CROSSING
PRIVATE DRIVEWAY LOT 2

PARCEL 40 TAXMAP 27 ZONED: R
4TH DISTRICT HOWARD COUNTY, MD
APRIL 29, 1987 SCALE: AS SHOWN

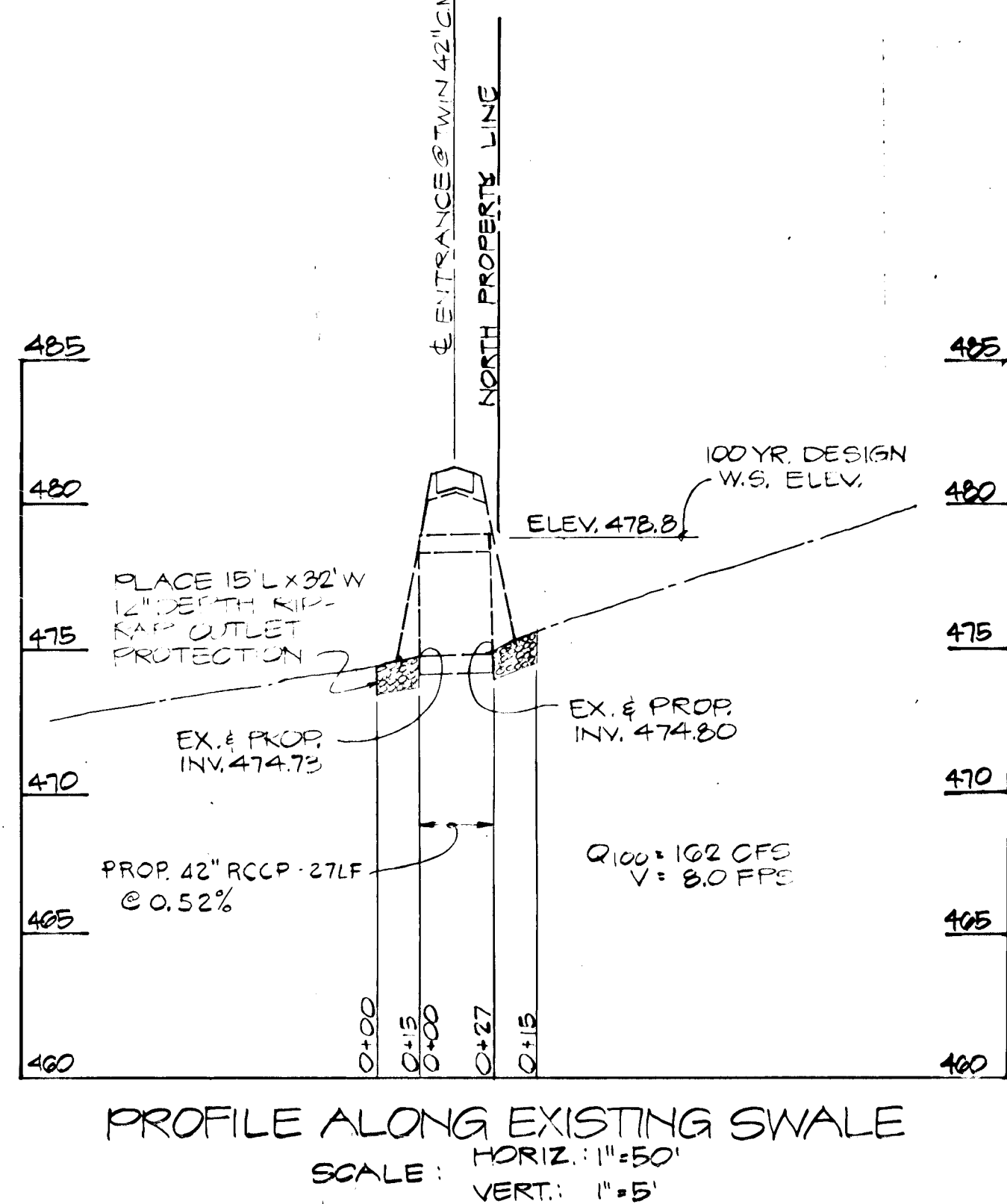
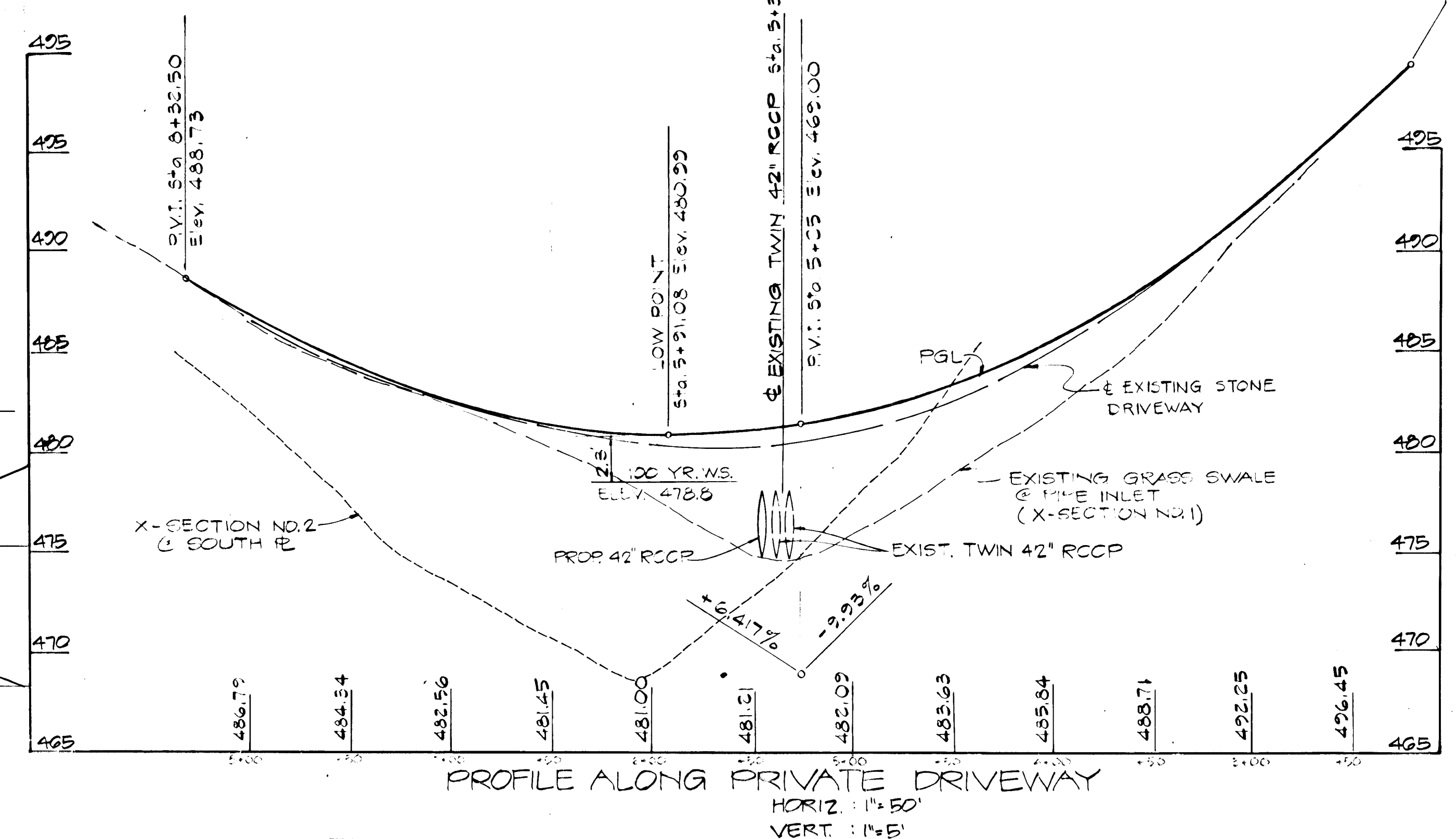


STA. 5+32.01 (R) LEFT CONSTRUCT 1-42" RCCP CL. 3, 27 FT. LENGTH UNDER EXISTING DRIVEWAY EMBANKMENT. GET PROP. PIPE INVERT. GRADE SAME AS EXISTING 42" RCCP - 0.22% AND AT SAME ELEVATIONS. INV IN 474.80 INV OUT 474.73 PLACE CL. 2 MEDIUM R.H. RAP SHA SPEC. SEC. 218 12" DEPTH X 32" WIDTH 15' LENGTH AT INLET AND OUTLET. PLACE FILTER FABRIC - POLY FILTER X OR APPROVED EQUAL UNDER ENTIRE R.H. RAP SECTIONS.

CONTRACTOR TO TAKE EXTREME CAUTION TO PROTECT EXISTING CONDITION AND COMPACTION OF EXISTING TWIN 42" RCCP. BACKFILL MATERIAL TO MEET SHA TYPE 3 BORROW SPECIFICATIONS OR EQUIVALENT.

FEMIANO ESTATES
SEC. 1 AREA 3
PLAT 5178

PLAN
SCALE: 1"=50'



By The Developer:
'I/We certify that all development and construction will be done according to this plan, 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.'
Signature of Developer: John F. Pettalio, Inc. Date: 4/29/87

By The Engineer:
'I 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 of Engineer: Date: 5/15/87

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Howard S.C.D. Date:
Reviewed for: S.C.D. and meets Technical Requirements.
U.S. Soil Conservation Service Date:

HICKS ENGINEERING COMPANY, INC.
CIVIL ENGINEERS - SURVEYORS - PLANNERS
BALTIMORE, MARYLAND

#1265