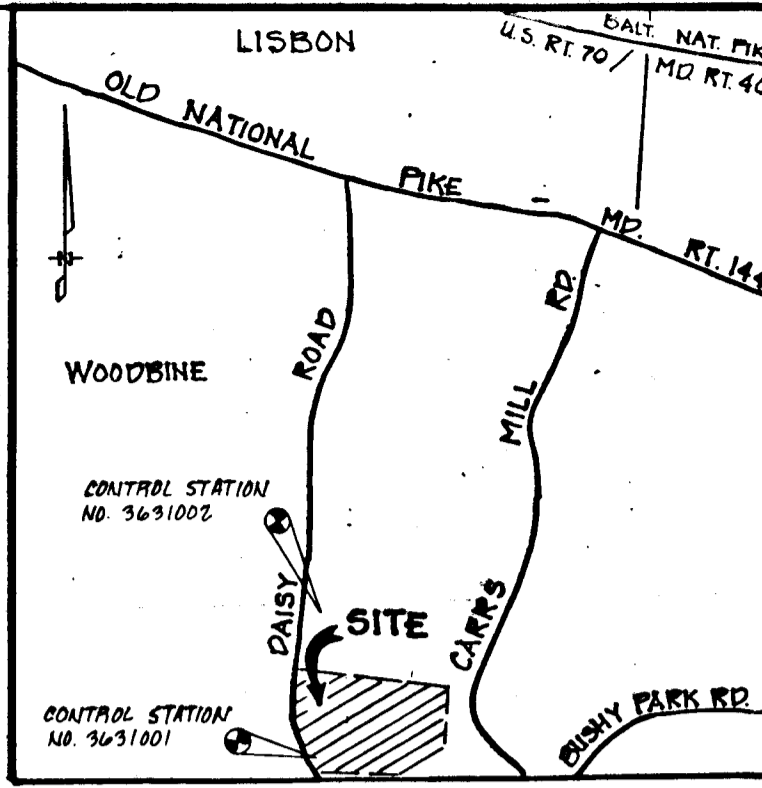
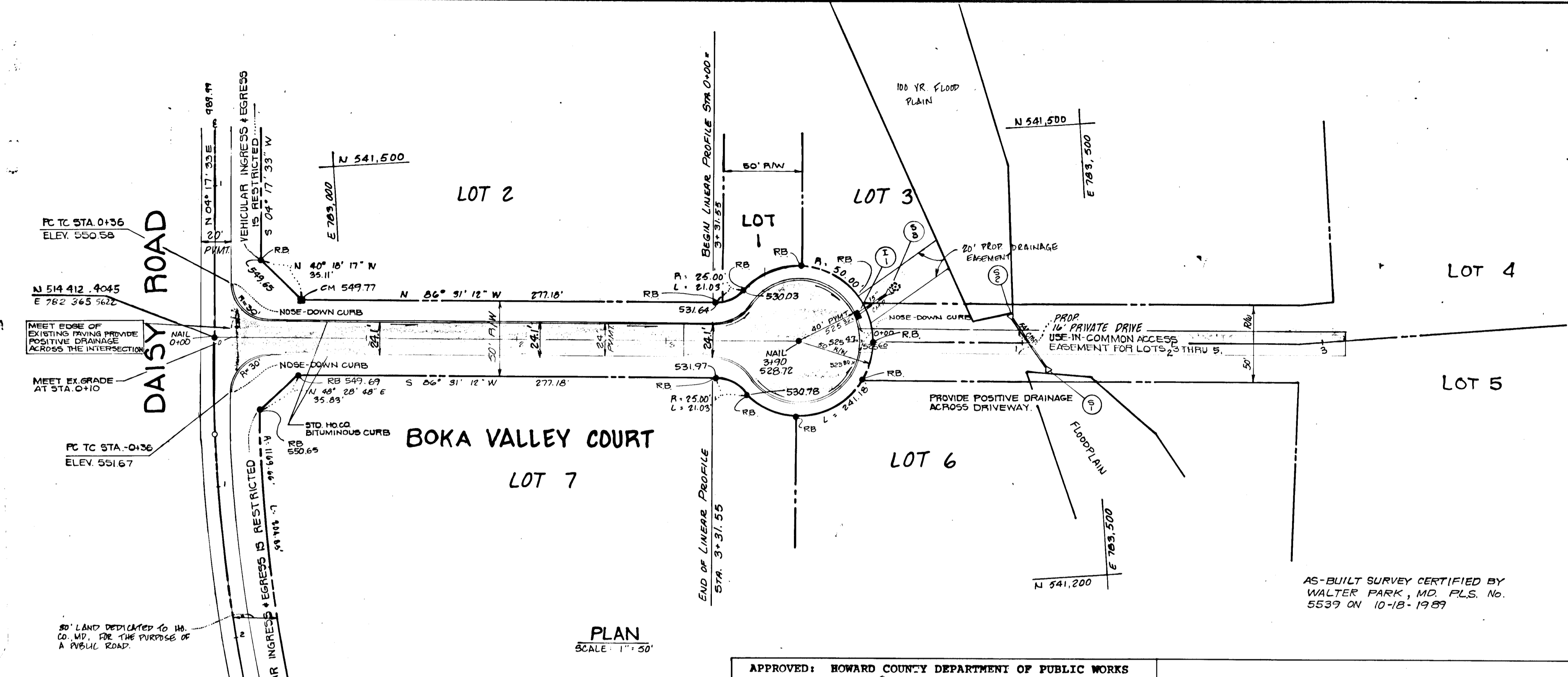


MON. LOCATION



VICINITY MAP  
SCALE: 1"=2000'

- GENERAL NOTES**
1. ALL STORM DRAIN & PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST DETAILS AND SPECIFICATIONS OF HOWARD COUNTY & MD. STATL. HIGHWAY ADMINISTRATION.
  2. TYPES OF STORM DRAIN STRUCTURES REFER TO THE STANDARD DETAILS OF HOWARD COUNTY & MD STATE HIGHWAY ADMINISTRATION.
  3. TRENCH COMPACTION FOR STORM DRAINS WITHIN ROADS OR STREET RIGHT OF WAY LIMIT SHALL BE IN ACCORDANCE WITH THE LATEST HOWARD COUNTY ROAD CODE.
  4. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF THE MAINS BY DIGGING TEST PITS, BY HAND, AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF CONSTRUCTION.
  5. ALL UTILITY COMPANIES SHALL BE NOTIFIED 24 HRS. IN ADVANCE OF CONSTRUCTION, AT 1-800-257-7777.
  6. ALL TRAFFIC CONTROL SERVICES, PARKING AND SIGNING TO BE DONE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1988 EDITION."
  7. SAG & CREST VERTICAL CURVES WERE DESIGNED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME III, ROADS & BRIDGES.
  8. MIN. COVER OF 12" SHALL BE PROVIDED OVER STORM DRAIN PIPES ON ALL AREAS NOT BEING FINAL GRADED BY THESE PLANS.
  9. DESIGN SPEED: 30 M.P.H.
  10. ALL HORIZONTAL AND VERTICAL CONTROLS BASED ON MARYLAND STATE DATUM.
  11. TOPOGRAPHY WAS SURVEYED BY KIDDE CONSULTANTS, INC.
  12. SEE ALSO: S-88-111, P-89-03, WP-88-151.
  13. ZONING: R 32.49 ACRES
  14. A WAIVER HAS BEEN GRANTED FROM DESIGN MANUAL VOLUME IV, STANDARD DETAIL R.1.04 CONCERNING THE WIDENING OF OF DAISY ROAD.



PLAN  
SCALE: 1"=50'

PROFILE LEGEND  
BRL LEFT  
BRL RIGHT  
EXISTING

OWNER/DEVELOPER  
ROBERT KAREN DYNARZEWSKI  
127 CHARLEY COURT  
WOODBINE, MD 21787  
(301) 347-3021

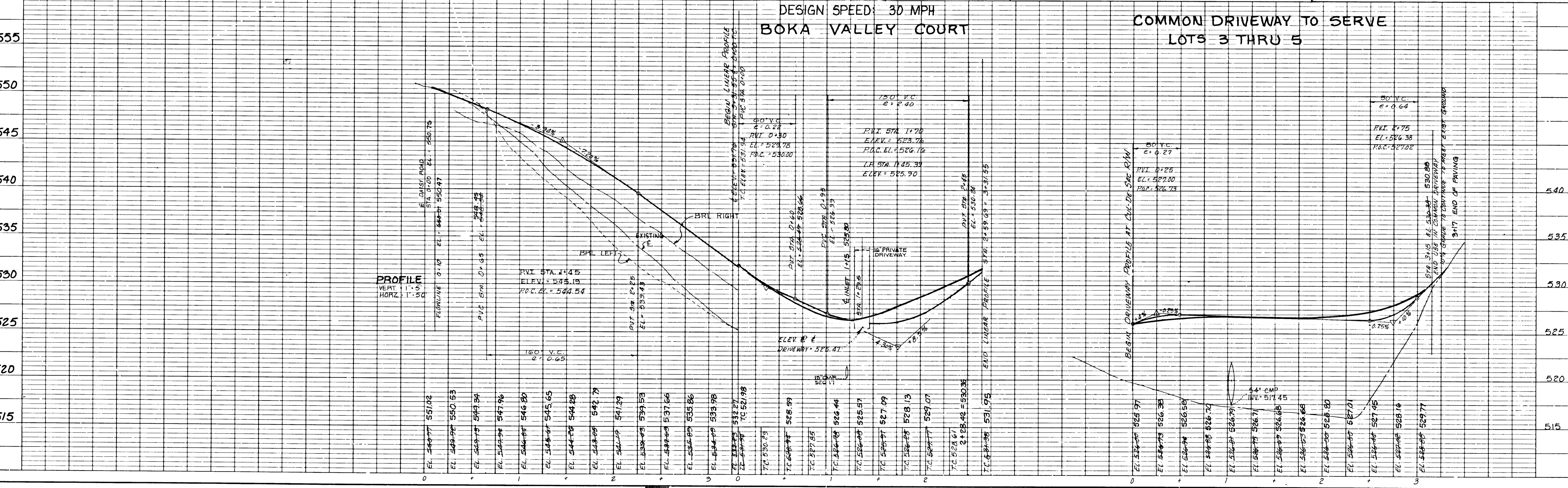
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
Date 3/3/89  
Chief, Land Development Division

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
Date 3/7/89  
Chief, Bureau of Highways

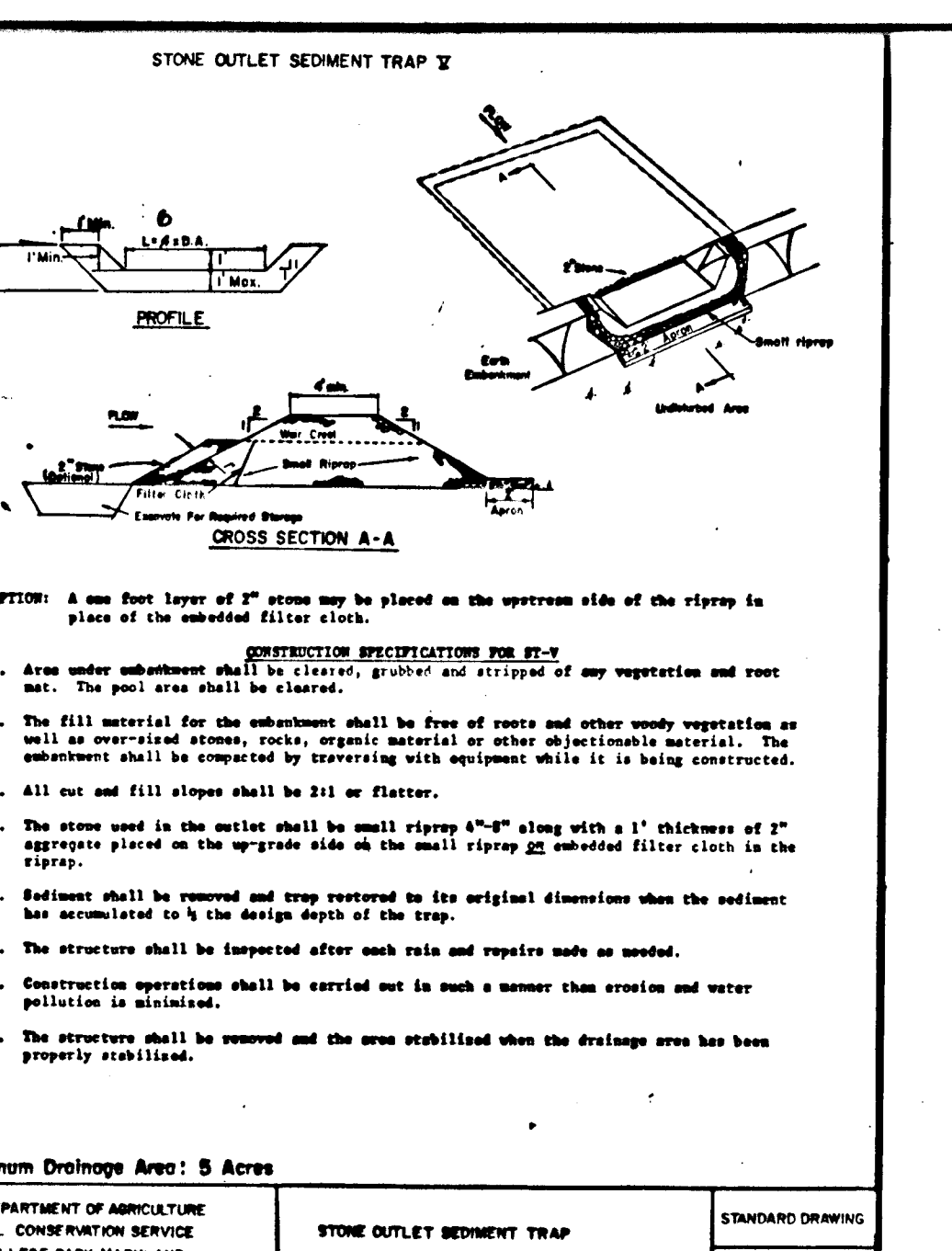
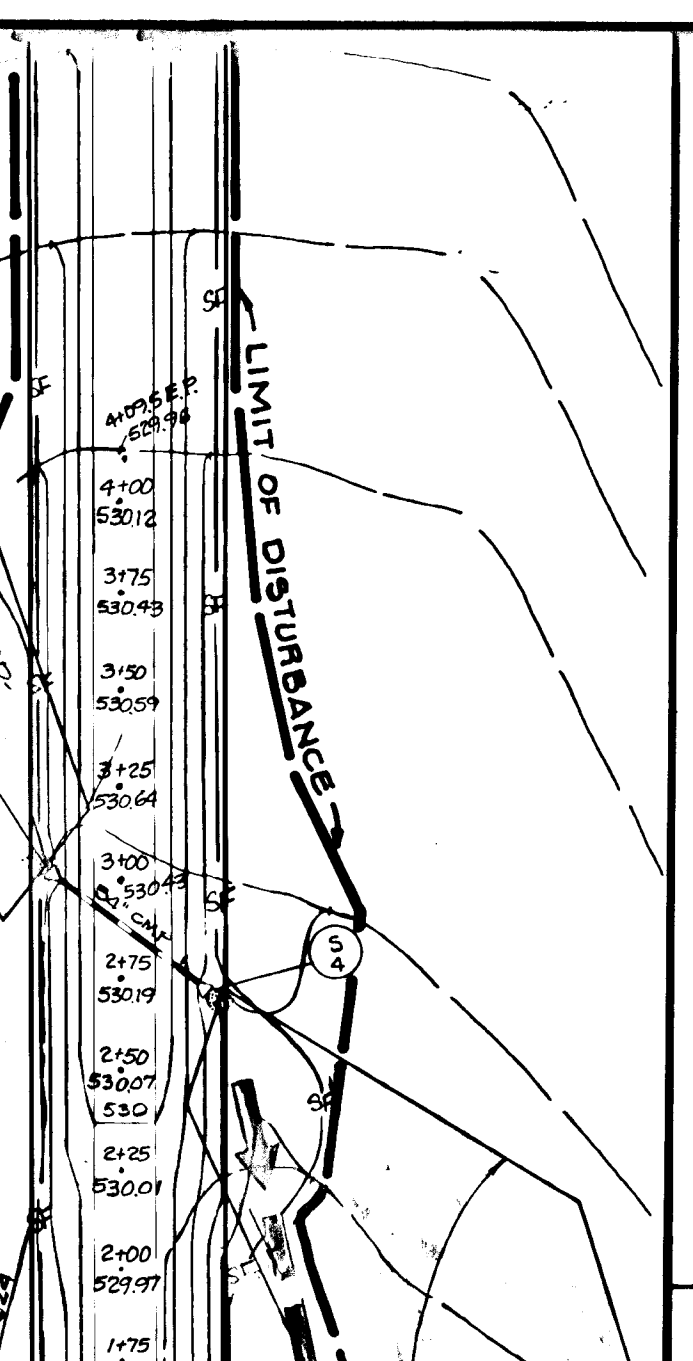
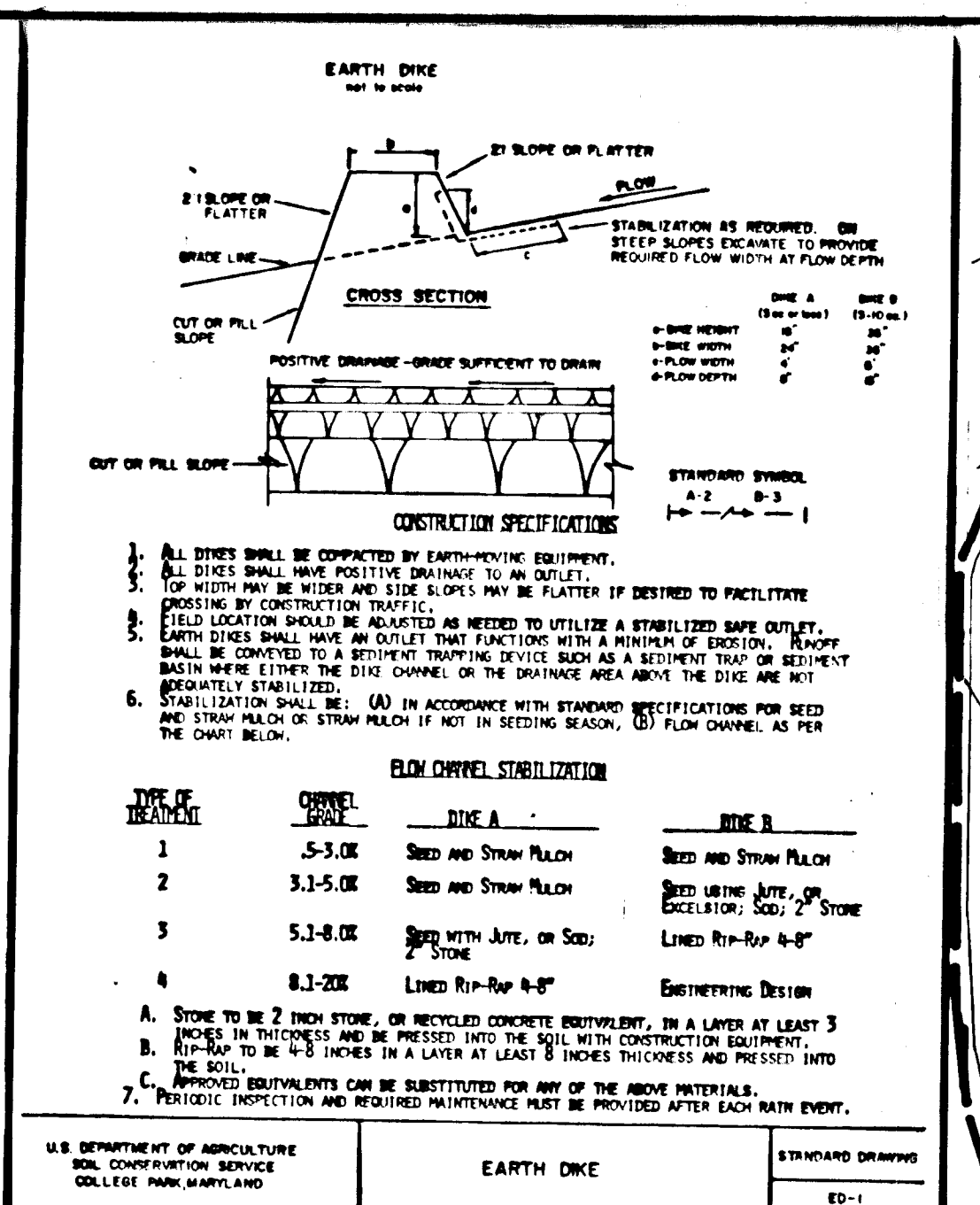
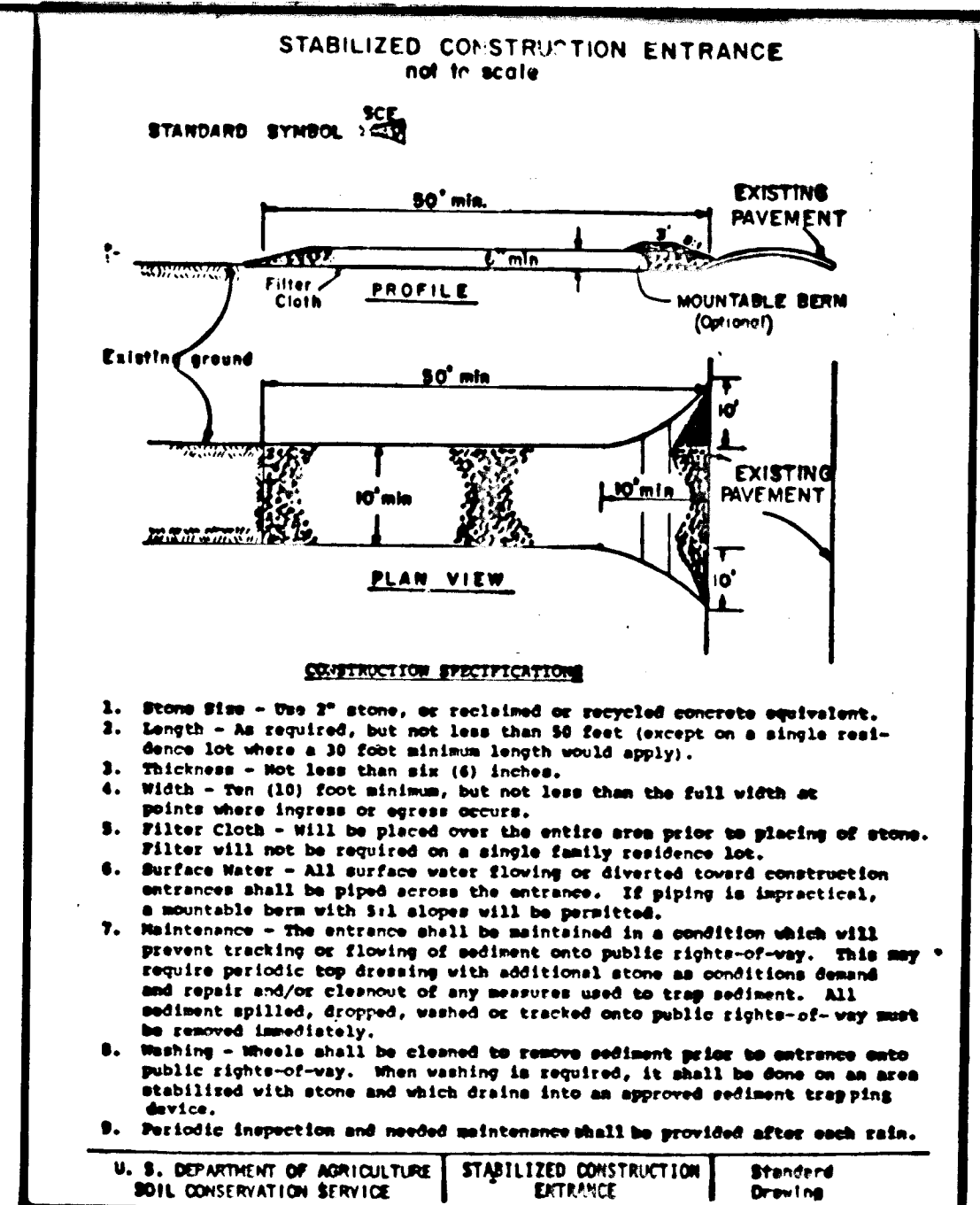
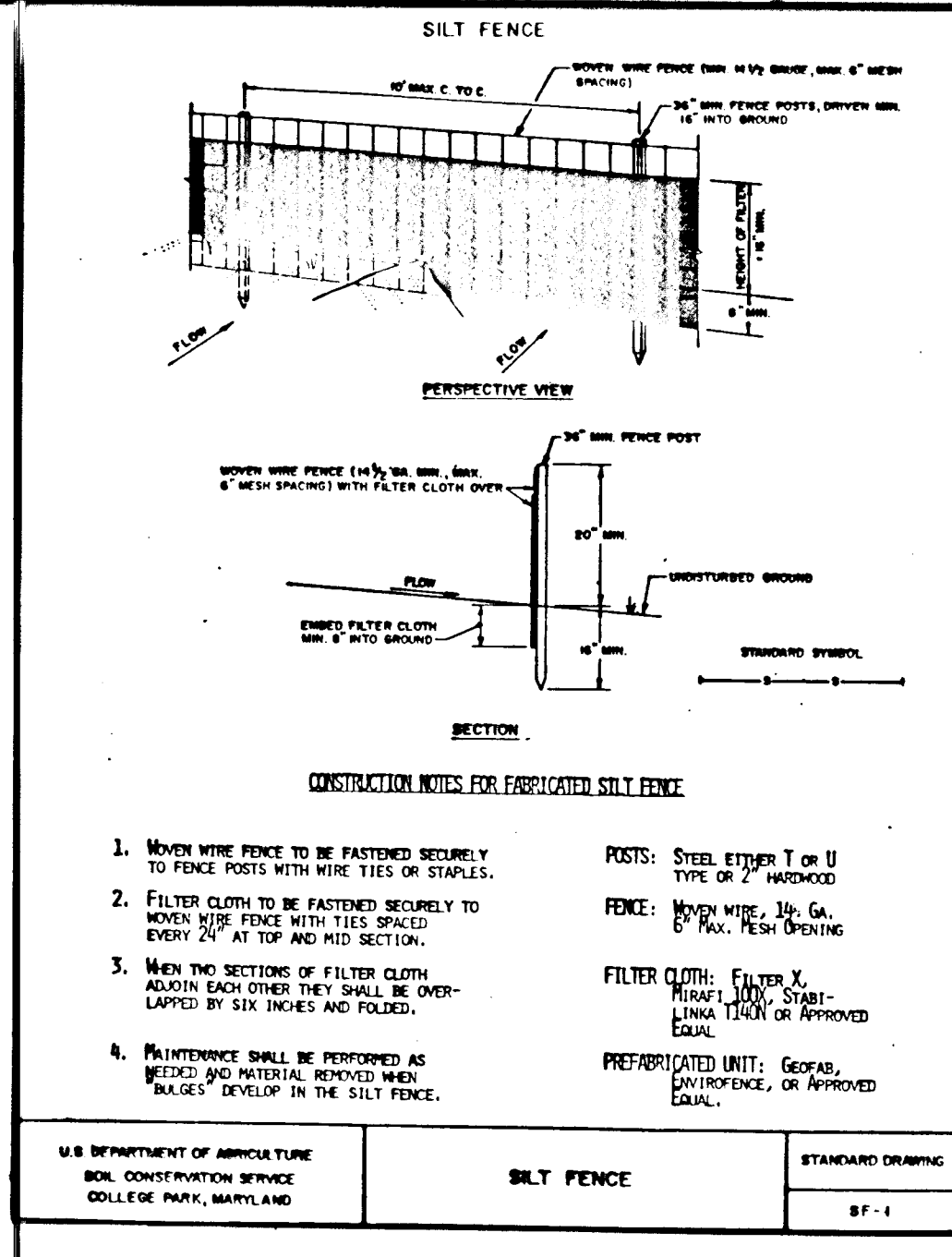
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
Date 3-8-89  
Chief, Division of Community Planning and Land Development

**KIDDE CONSULTANTS, INC.**  
ENGINEERS • PLANNERS • SURVEYORS  
1100 WEST STREET SUITE 100 / LAUREL MD 20707  
(Wash.) (301) 953-1821 / 792-8086 (Bat.)

DATE MARCH 1989 SCALE 1"=50'



1433



**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, disking or other acceptable means before seeding, if not previously loosened.

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

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Narrow or disc into upper three inches of soil. During the period of October 15 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.
- Acceptable - Apply 1 ton 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. Narrow 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 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 15 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 gal 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.**

**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, disking 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 25 bushel per acre of annual ryegrass (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 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.

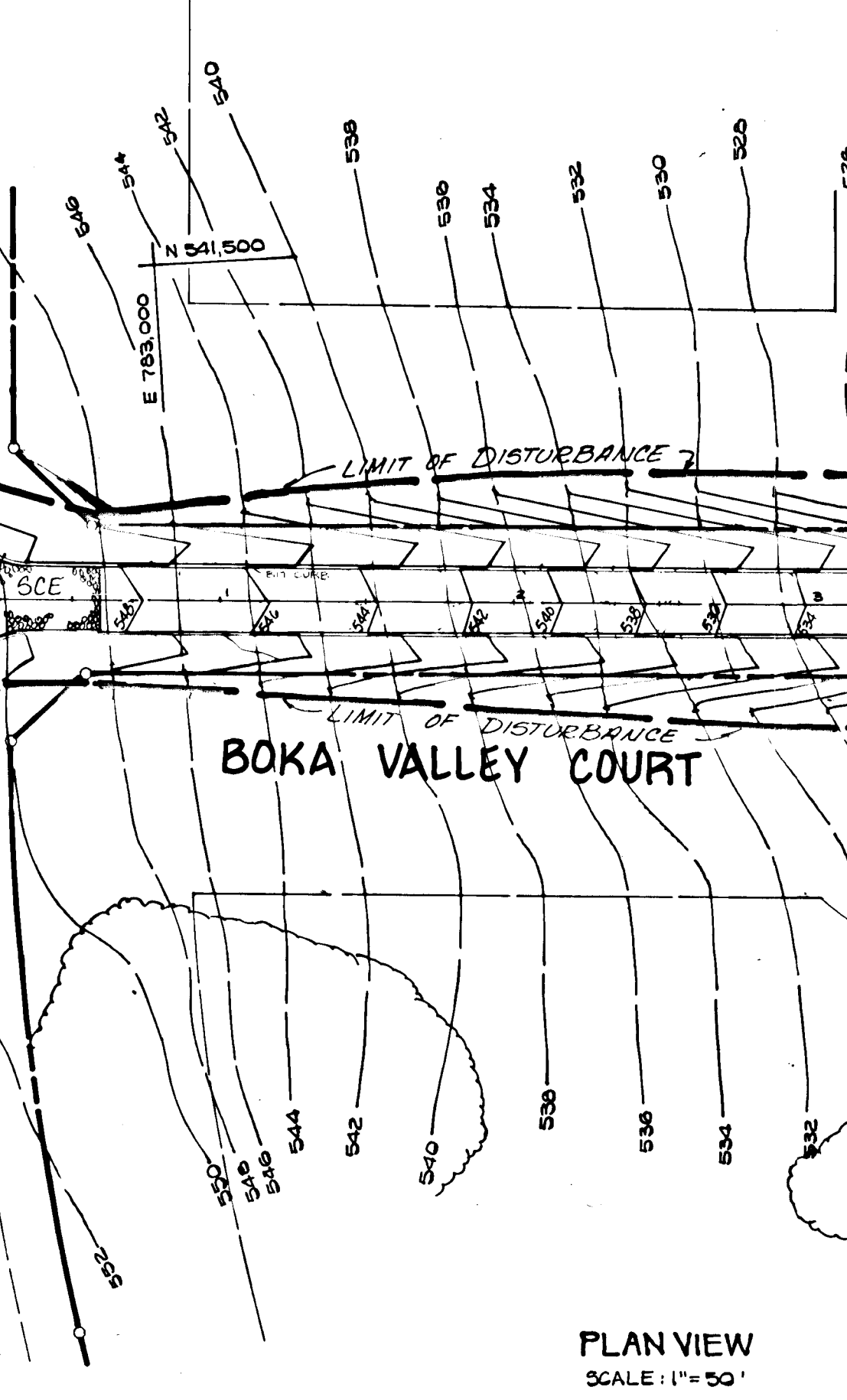
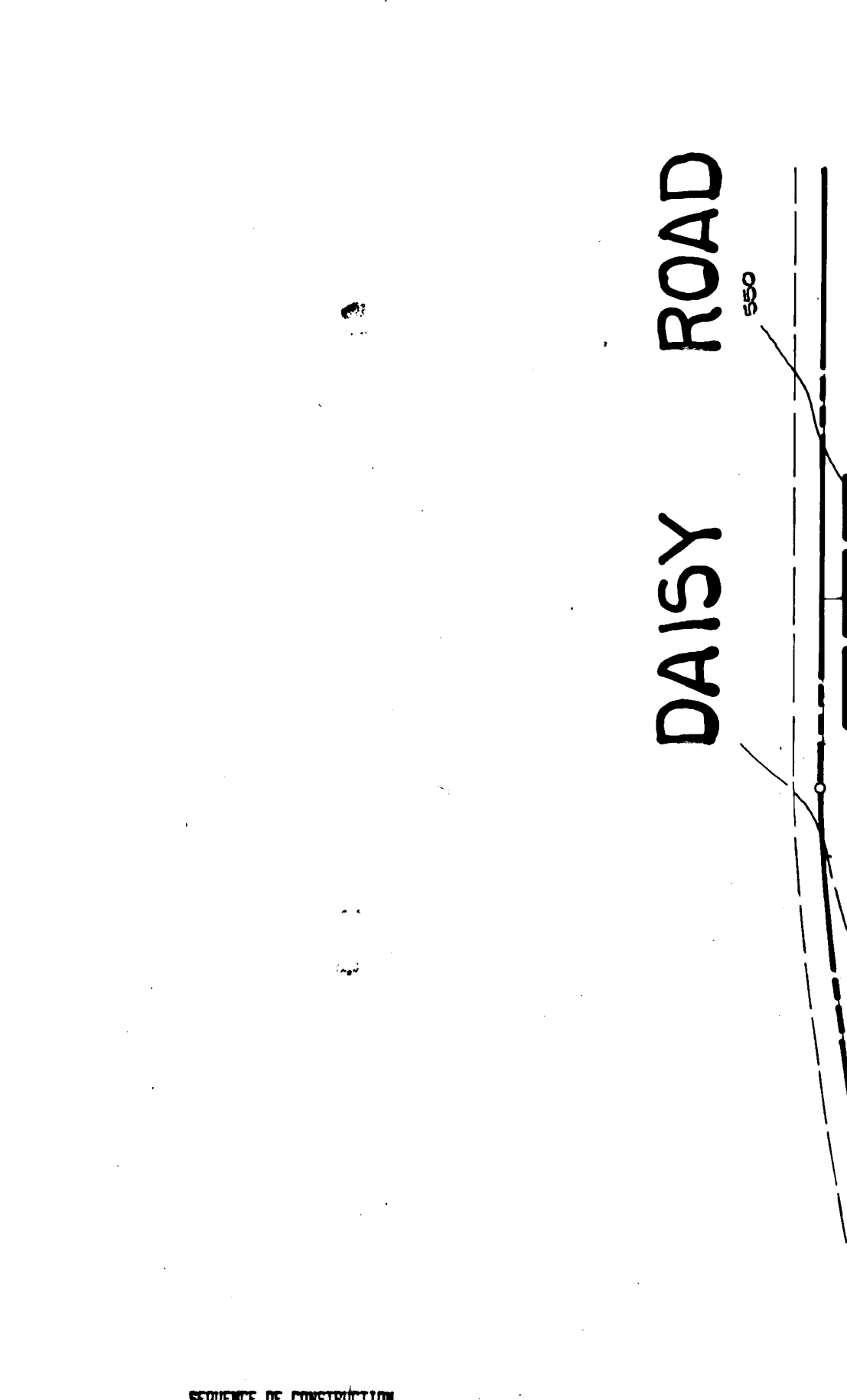
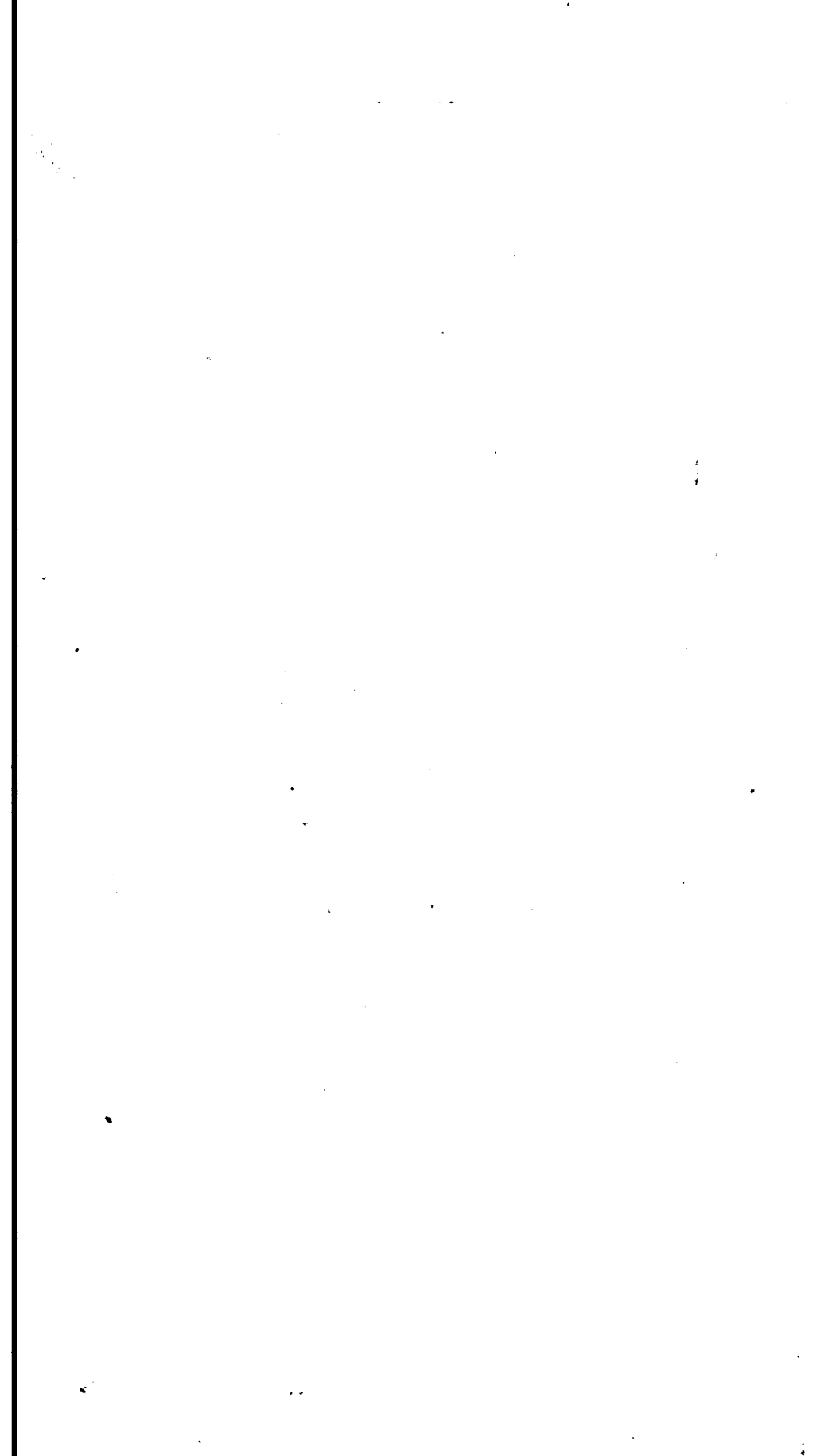
**Mulching:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, 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.

**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)
- 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 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.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with "1.1, Chapter 1" of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 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) and (Sec. 54), temporary seedings (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	32.49 Acres
Area Disturbed	1.45 Acres
Area to be roofed or paved	.26 Acres
Area to be vegetatively stabilized	1.17 Acres
Total Cut	0 Cu. yds
Total Fill	4018.35 Cu. yds
Offsite waste/borrow area location	N/A
- 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.



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, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

**NOTE: FOR SEQUENCE OF CONSTRUCTIONS, SEE SHEET THIS SHEET.**

**GRADING & SEDIMENT CONTROL**  
**BOKA VALLEY**  
TAX MAP 0 PART OF PARCEL 43  
4TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**KIDDE CONSULTANTS, INC.**  
ENGINEERS • PLANNERS • SURVEYORS  
1100 WEST STREET / SUITE 100 / LAUREL, MD 20707  
(Wash.) (301) 953-1821 / 792-8086 (Balt.)

DATE: 3/21/89

APPROVED FOR HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
3/3/89

APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
3/3/89

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
DATE: 3/3/89

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DATE: 3/3/89

**OWNER/DEVELOPER**  
ROBERT AND KAREN RYBARZEWSKI  
1227 CHARLEY COURT  
WOODBINE, MARYLAND 21797  
(301) 347-5021

DATE: 2/21/89

**ENGINEER'S CERTIFICATE**  
"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."

DATE: 2/21/89

**OWNER'S/DEVELOPER'S CERTIFICATION**  
"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. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

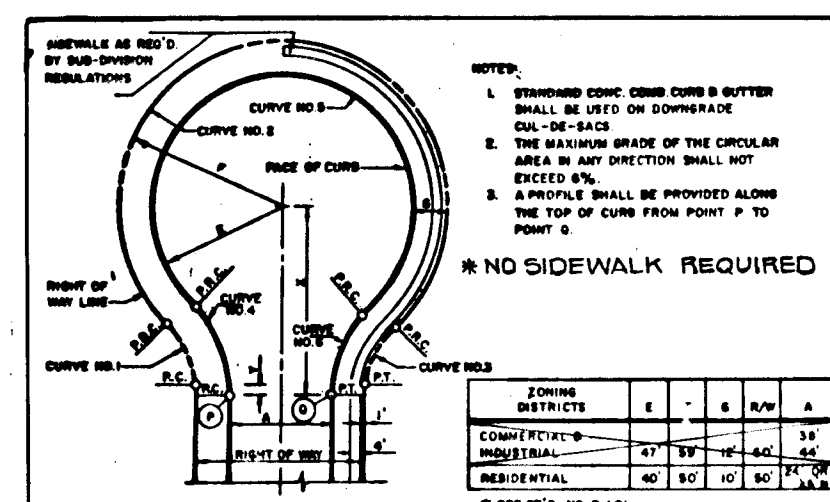
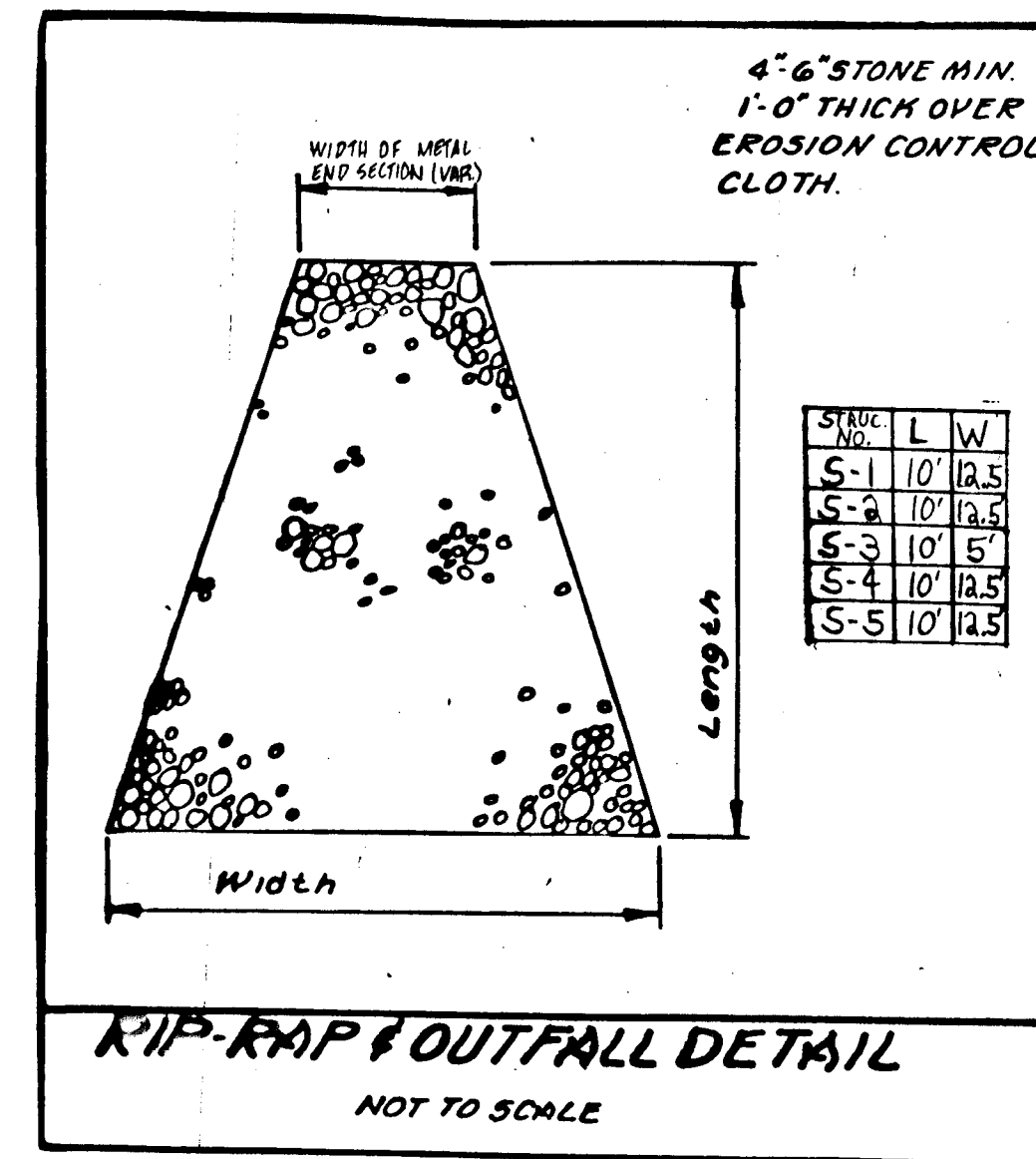
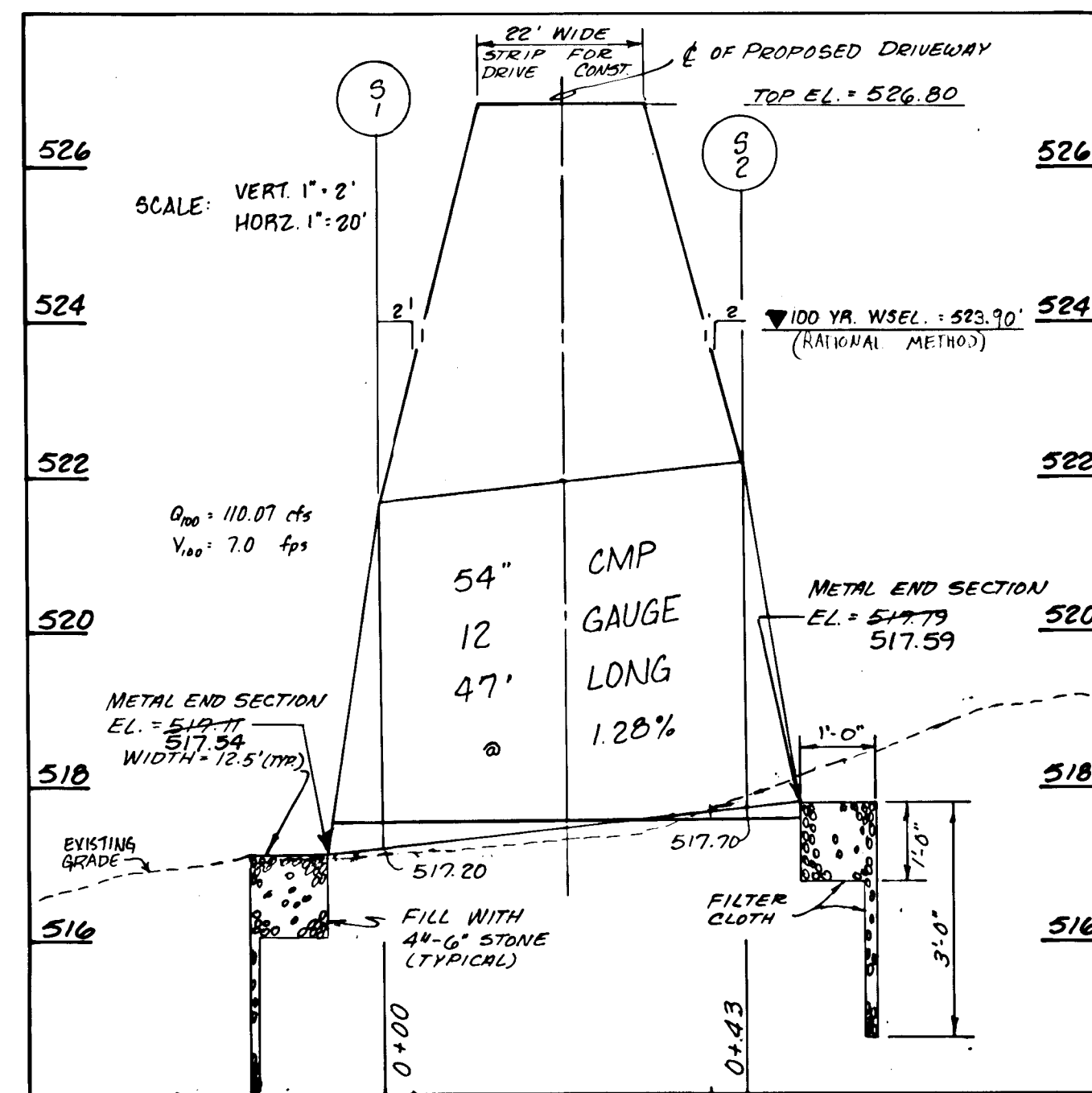
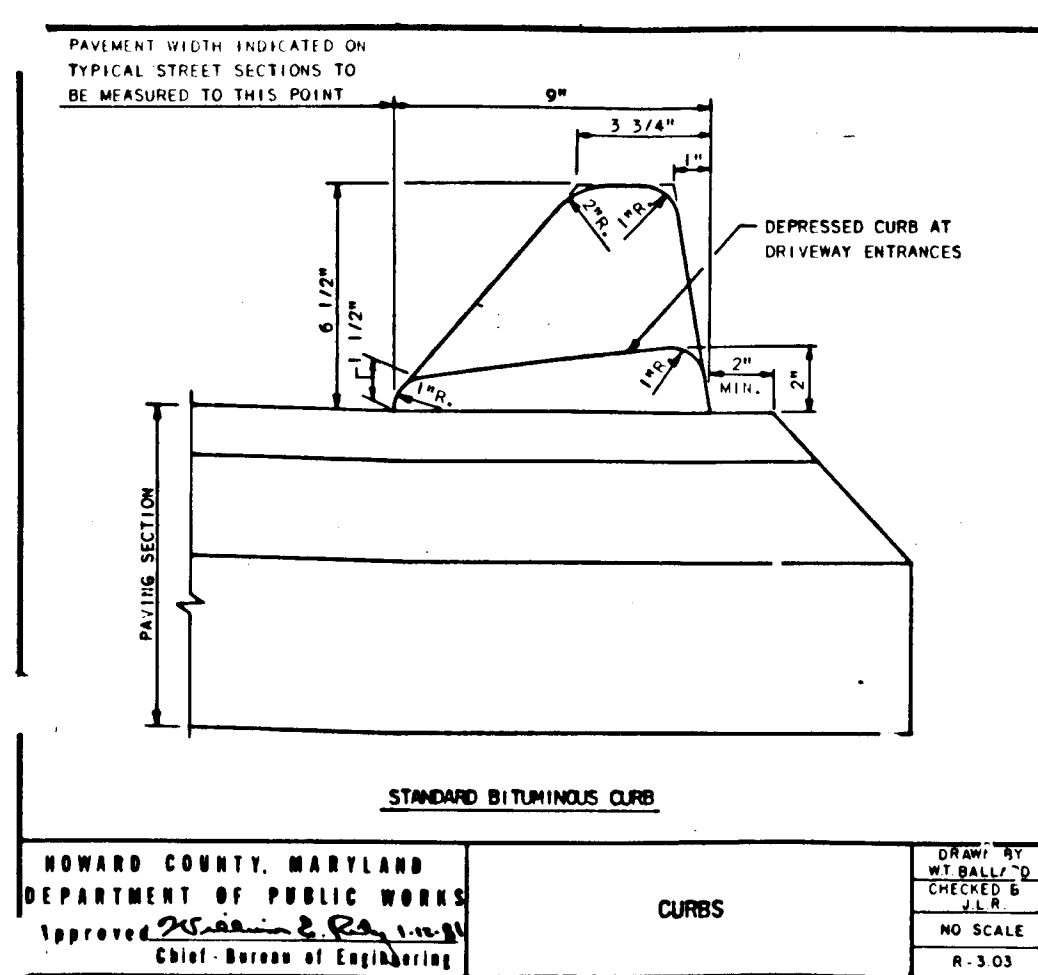
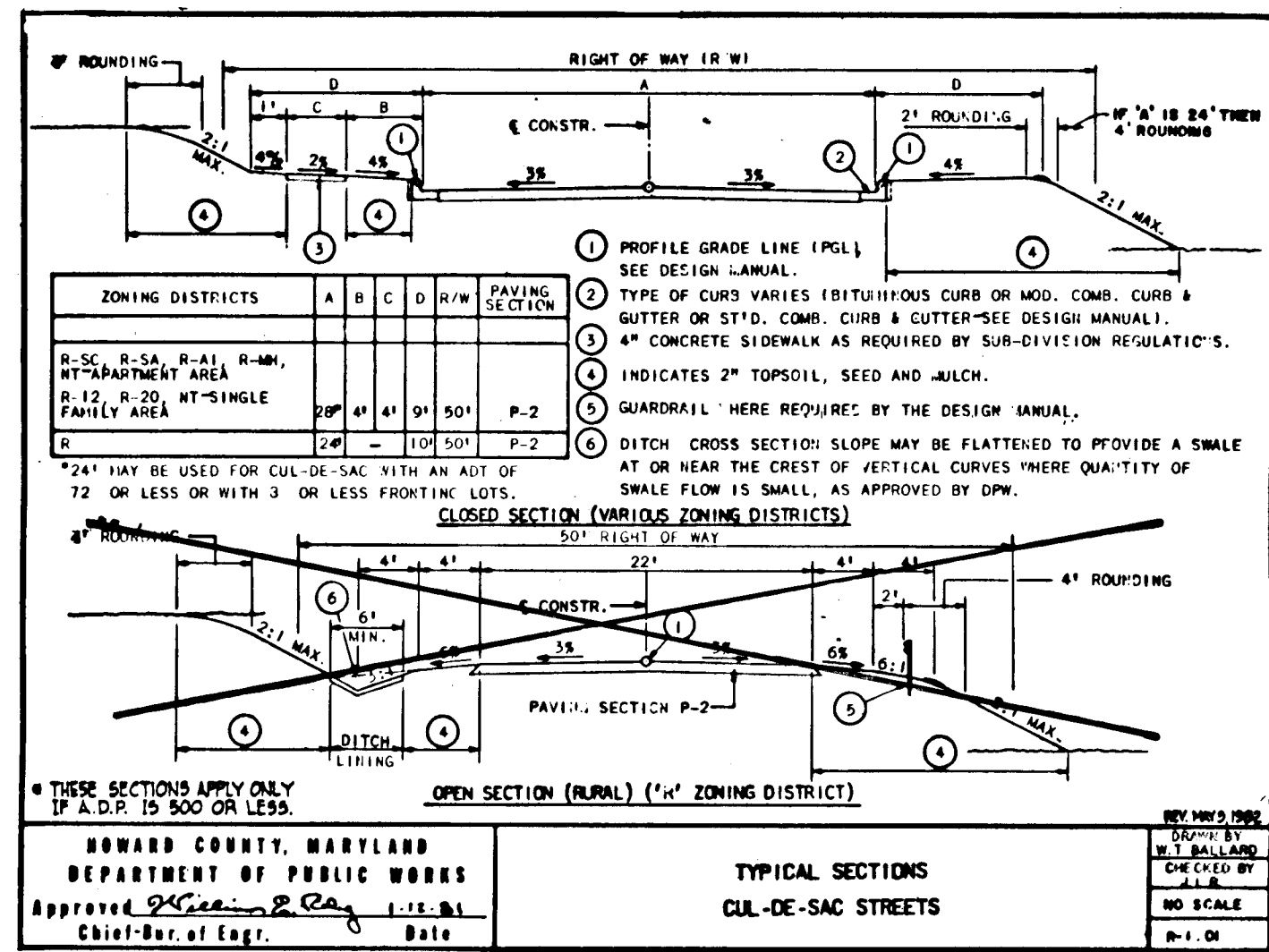
DATE: 2/21/89

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND METS TECHNICAL REQUIREMENTS.  
DATE: 2-24-89

U.S. SOIL CONSERVATION SERVICE  
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
DATE: 2/24/89

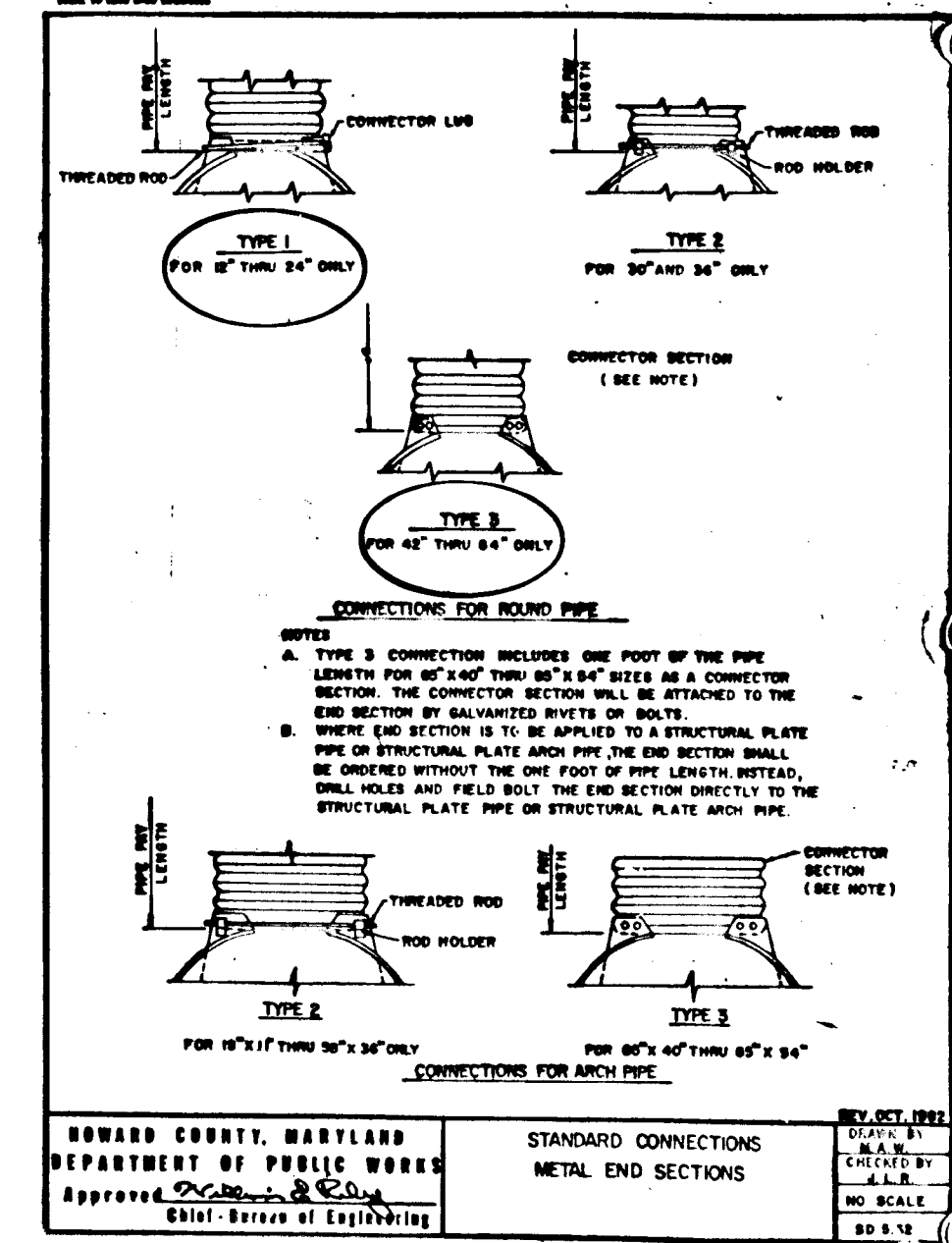
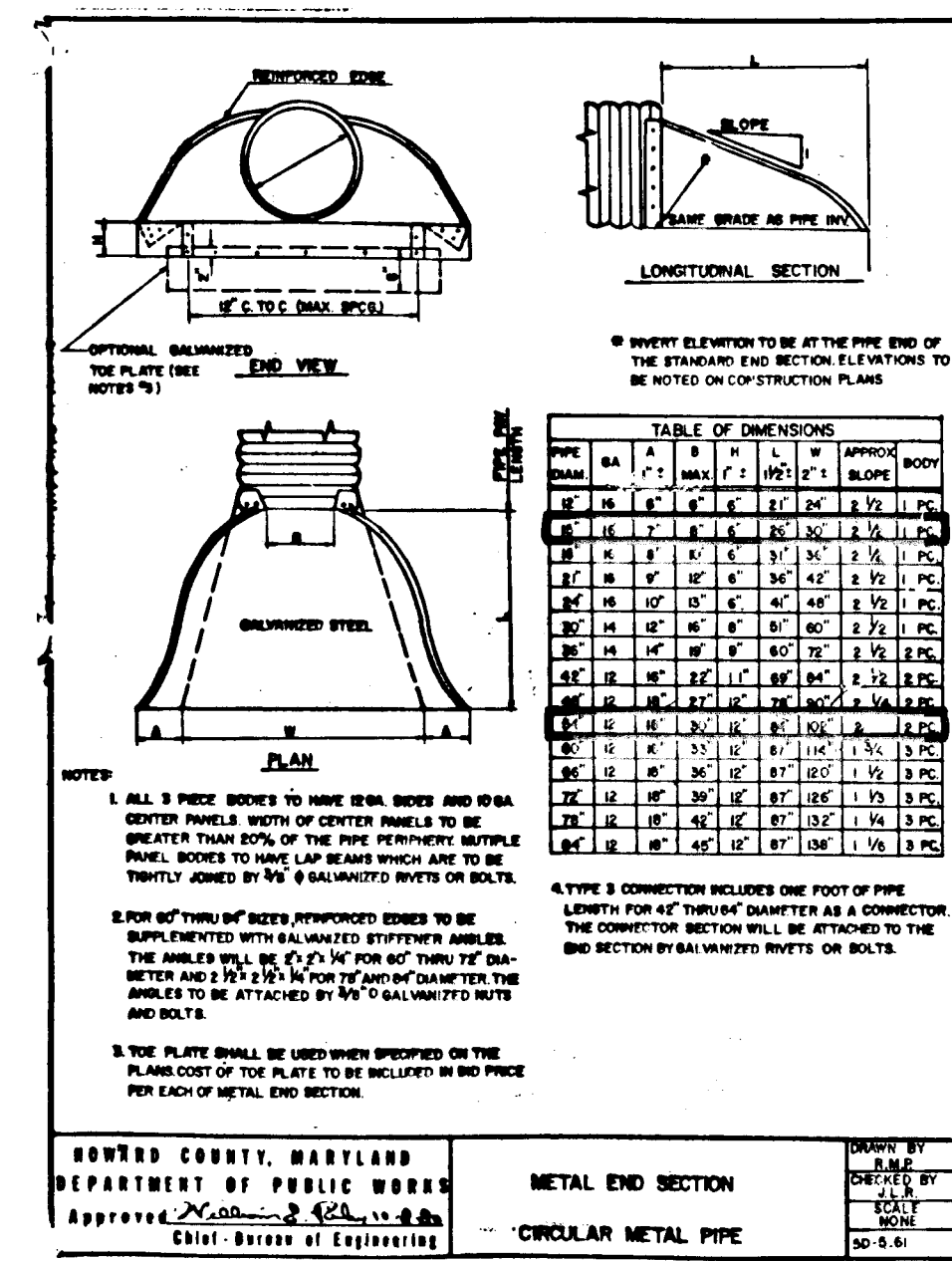
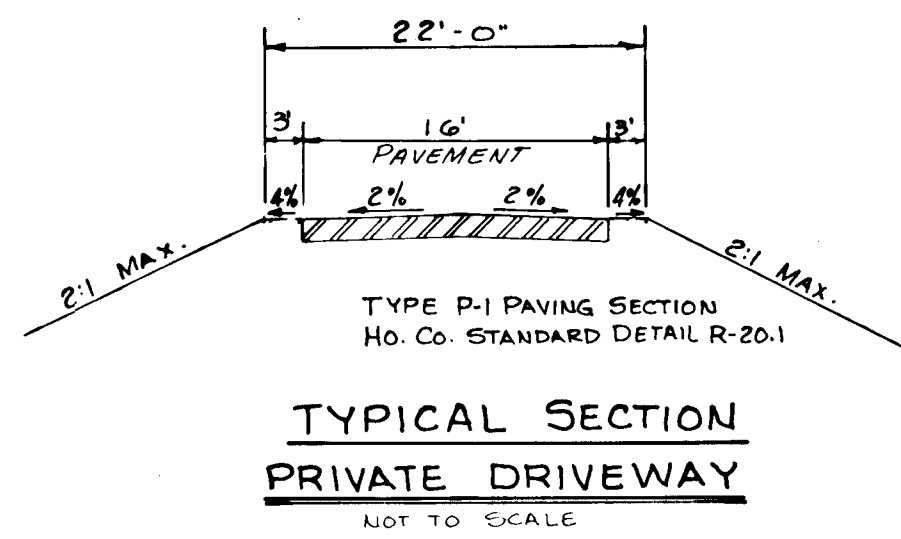
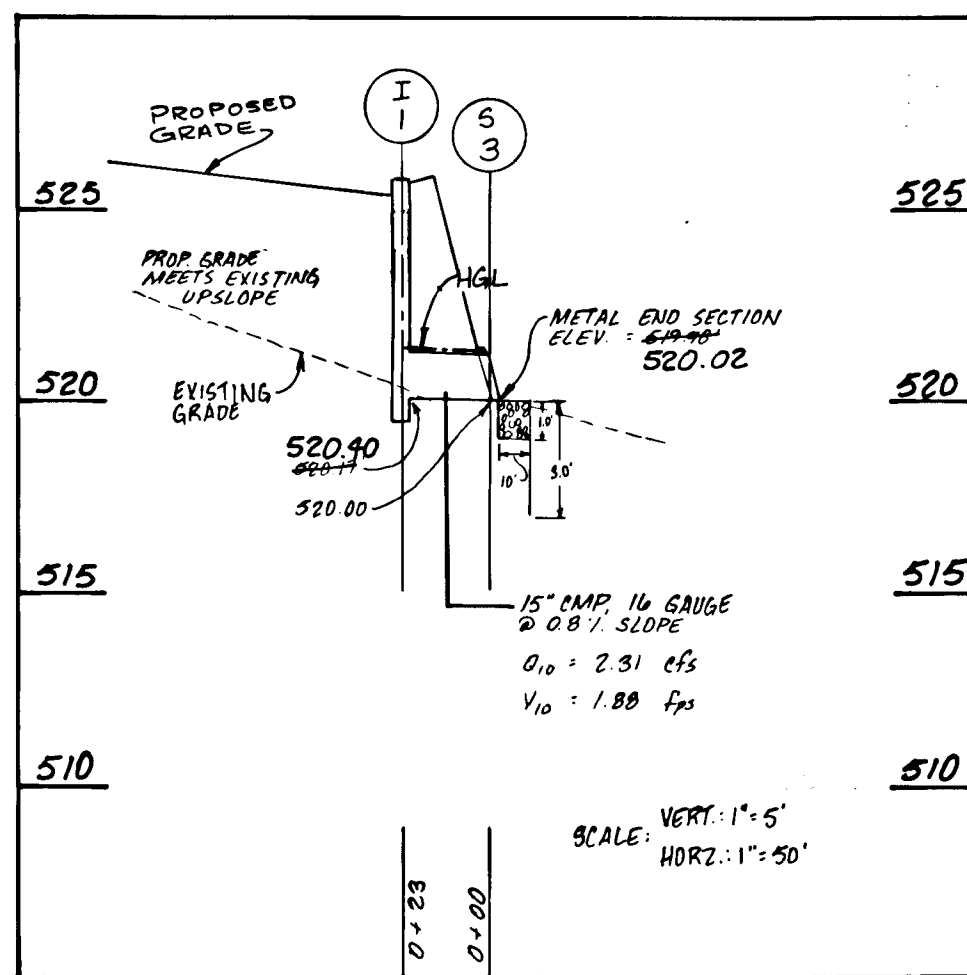
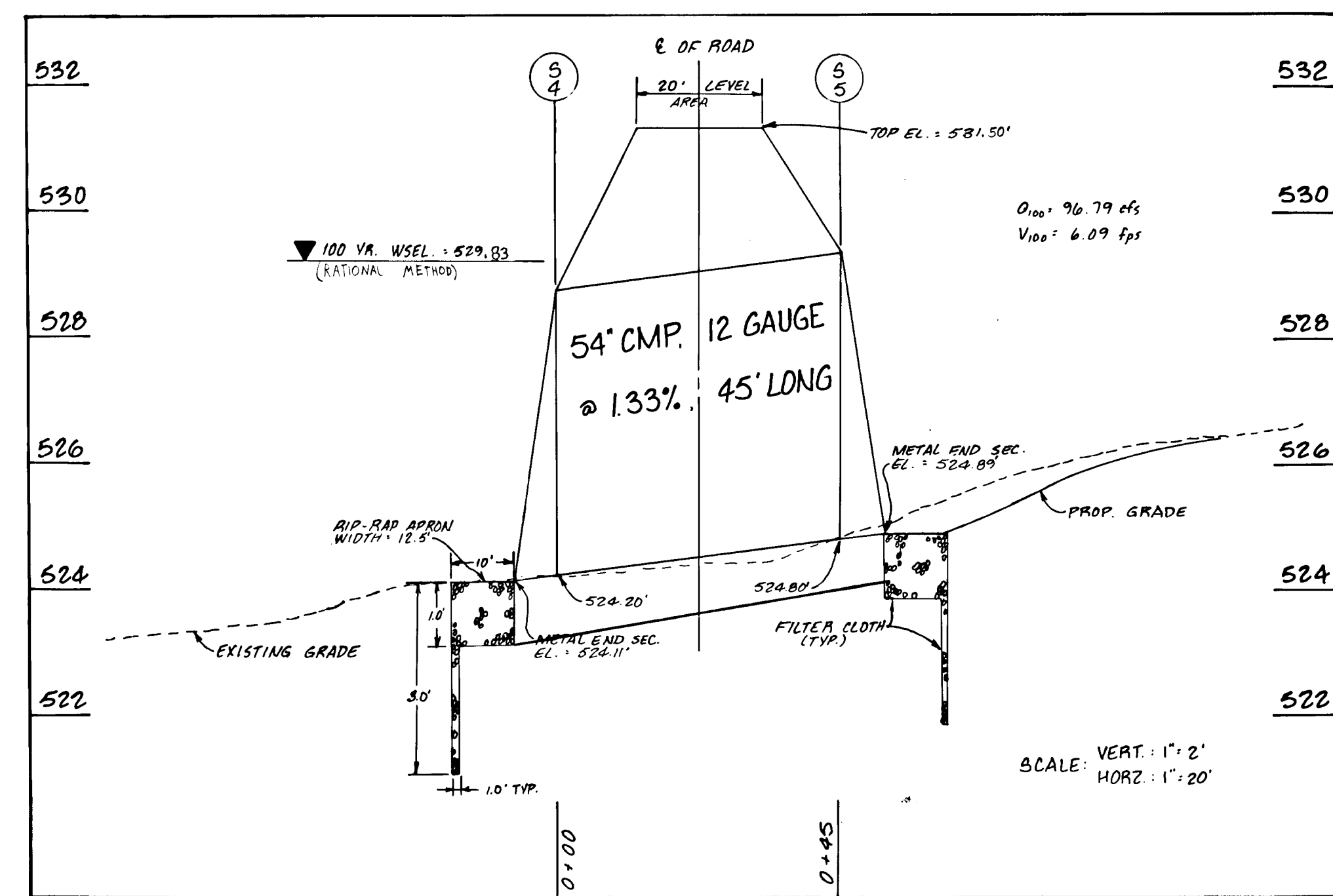
DATE: 3/21/89  
REVISION: BY: [Signature]  
SURVEYED BY: KCI  
COMPUTED BY: KCI  
DRAWN BY: RTJR  
CHECKED BY: RA, DW  
DATE: 3/21/89

DATE: 3/21/89



**CURVE DATA**

STATION	PI	PC	PT	EA	EB	EC	EA	EB	EC
516.00	517.20	518.40	519.60	520.80	522.00	523.20	524.40	525.60	526.80



**DRAINAGE STRUCTURE SCHEDULE**

NO.	TYPE	INW. IN	INW. OUT	TOP ELEV.	REMARKS
1-1	A-5		520.17	525.90	SEE HO. CO. STD DETAIL SD. 4.81
1-1	METAL		517.20	521.70	SEE HO. CO. STD DETAIL SD. 5.41
1-2	METAL	517.70		522.70	SEE HO. CO. STD DETAIL SD. 5.41
1-3	METAL		520.00	521.25	SEE HO. CO. STD DETAIL SD. 5.41
1-4	METAL		524.00	528.70	SEE HO. CO. STD DETAIL SD. 5.41
1-5	METAL	524.00		529.50	SEE HO. CO. STD DETAIL SD. 5.41

**APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING**  
*[Signature]* 3-21-89  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

**APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS**  
*[Signature]* 3/13/89  
 Chief, Land Development Division

*[Signature]* 3/17/89  
 Chief, Bureau of Highways

*[Signature]* 3-8-89  
 Chief, Bureau of Engineering

**REVIEWED FOR HOWARD SOIL CONSERVATION AND MEETS TECHNICAL REQUIREMENTS.**

*[Signature]* 2/24/89  
 SOIL CONSERVATION SERVICE DATE

**THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION & SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.**

*[Signature]* 2/24/89  
 HOWARD SOIL CONSERVATION DISTRICT DATE

**OWNER'S/DEVELOPER'S CERTIFICATION**

"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. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature: *[Signature]* Date: 9/19/88  
 Name: Title Phone No.  
 Firm: Complete Address

**ENGINEERS CERTIFICATE**

"I CERTIFY THAT THIS PLAN FOR EROSION & 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]*  
 ENGINEERS SIGNATURE DATE

**BOKA VALLEY**  
 CONSTRUCTION DETAILS & STORM DRAIN PROFILES  
 TAX MAP B PARCEL 43  
 4TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**KIDDE CONSULTANTS, INC.**

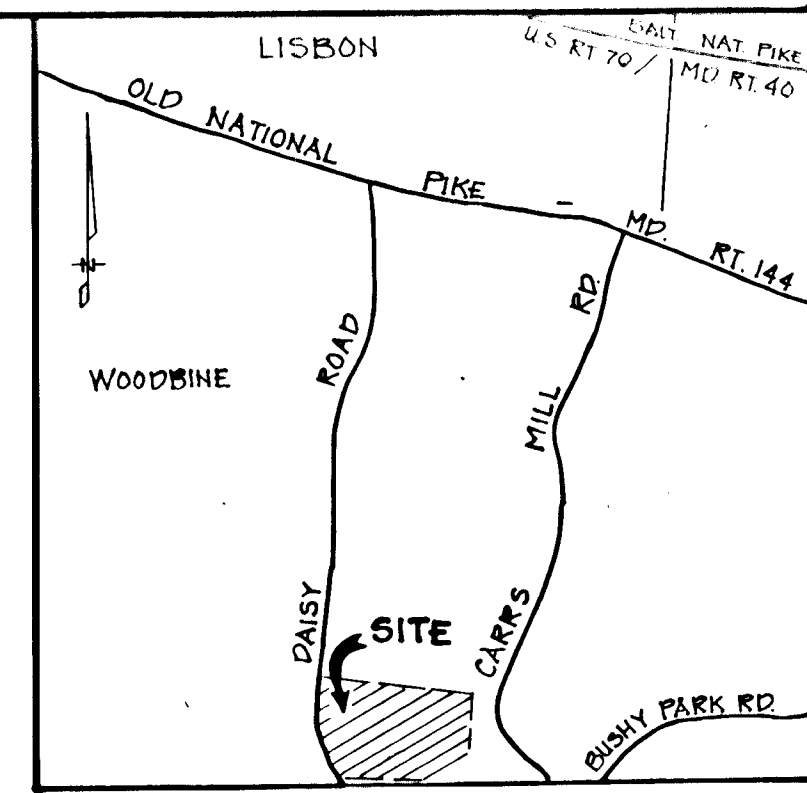
DATE: \_\_\_\_\_ REVISION: \_\_\_\_\_ BY: \_\_\_\_\_

ENGINEERS • PLANNERS • SURVEYORS  
 1100 WEST STREET / SUITE 100 / LAUREL, MD 20707  
 (Wash.) (301) 953-1821 / 792-8086 (Balt.)

DATE: March 1, 1989 SCALE: AS SHOWN  
 Drwg. No. 30F5

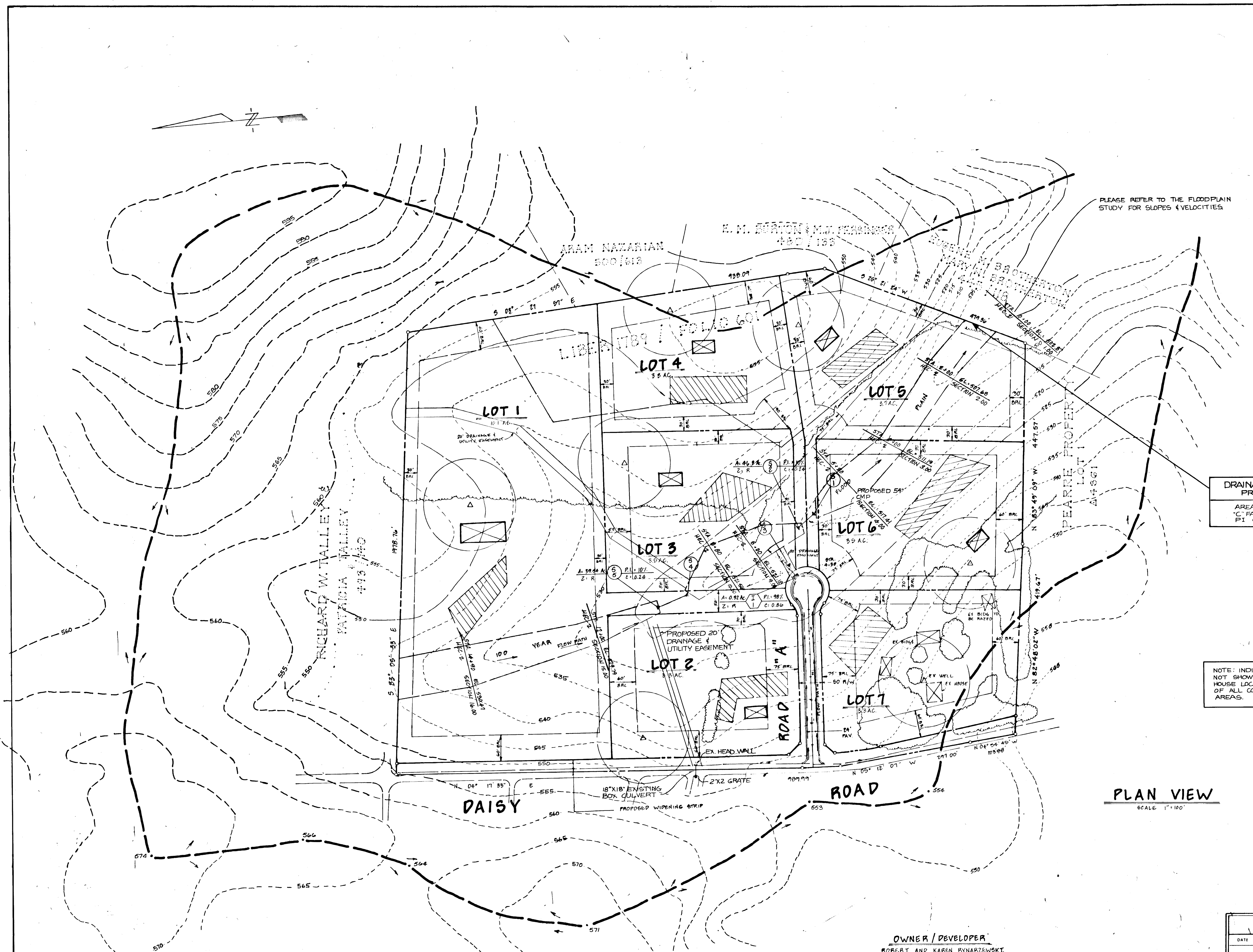
F-89-57 AS-BUILT 1018-89

1433



**VICINITY MAP**  
SCALE: 1"=2000'

PLEASE REFER TO THE FLOODPLAIN STUDY FOR SLOPES & VELOCITIES



STATION	ELEVATION
0+00	502.87
2+00	507.68
4+00	511.19
5+30	517.41
8+00	521.18
8+80	521.56
12+00	529.79
14+90	530.47

**DRAINAGE TO DOWNSTREAM PROPERTY LINE:**  
AREA = 61.28 ACRES  
C FACTOR = .24  
PI = 1.0%

**LEGEND**

- △ WELL
- PROP. HOUSE LOCATION
- ▨ SEPTIC FIELD

NOTE: INDIVIDUAL LOT GRADING NOT SHOWN DUE TO PROPOSED HOUSE LOCATIONS BEING UPHILL OF ALL CONCENTRATED FLOW AREAS.

**PLAN VIEW**  
SCALE: 1"=100'

**DRAINAGE AREA MAP**

**BOKA VALLEY**  
TAX MAP 'B', PART OF PARCEL 43  
4TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**OWNER / DEVELOPER**  
ROBERT AND KAREN RYNARZEWSKI  
1227 CHARTLEY COURT  
WOODBINE, MARYLAND 21797 (301) 341-8021

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
3/5/89  
Chief, Land Development Division  
3/7/89  
Chief, Bureau of Highways  
3-8-89  
Chief, Bureau of Engineering

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
3-2-89  
DATE  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

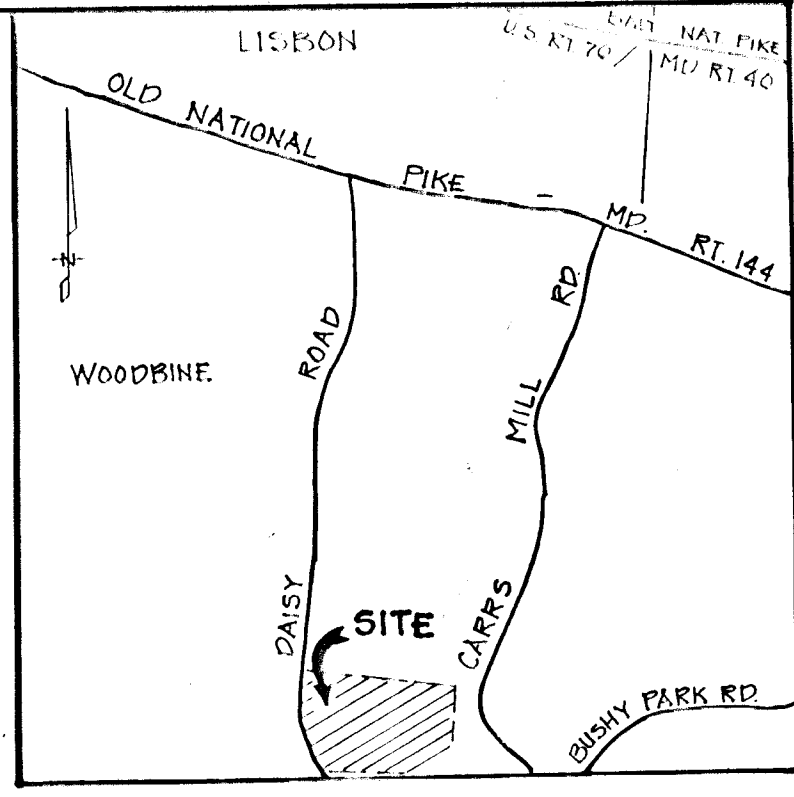
**KIDDE CONSULTANTS, INC.**  
ENGINEERS • PLANNERS • SURVEYORS  
1100 WEST STREET / SUITE 100 / LAUREL, MD 20707  
(Wash.) (301) 963-1821 / 782-0686 (Rt.)

DATE	REVISION	BY

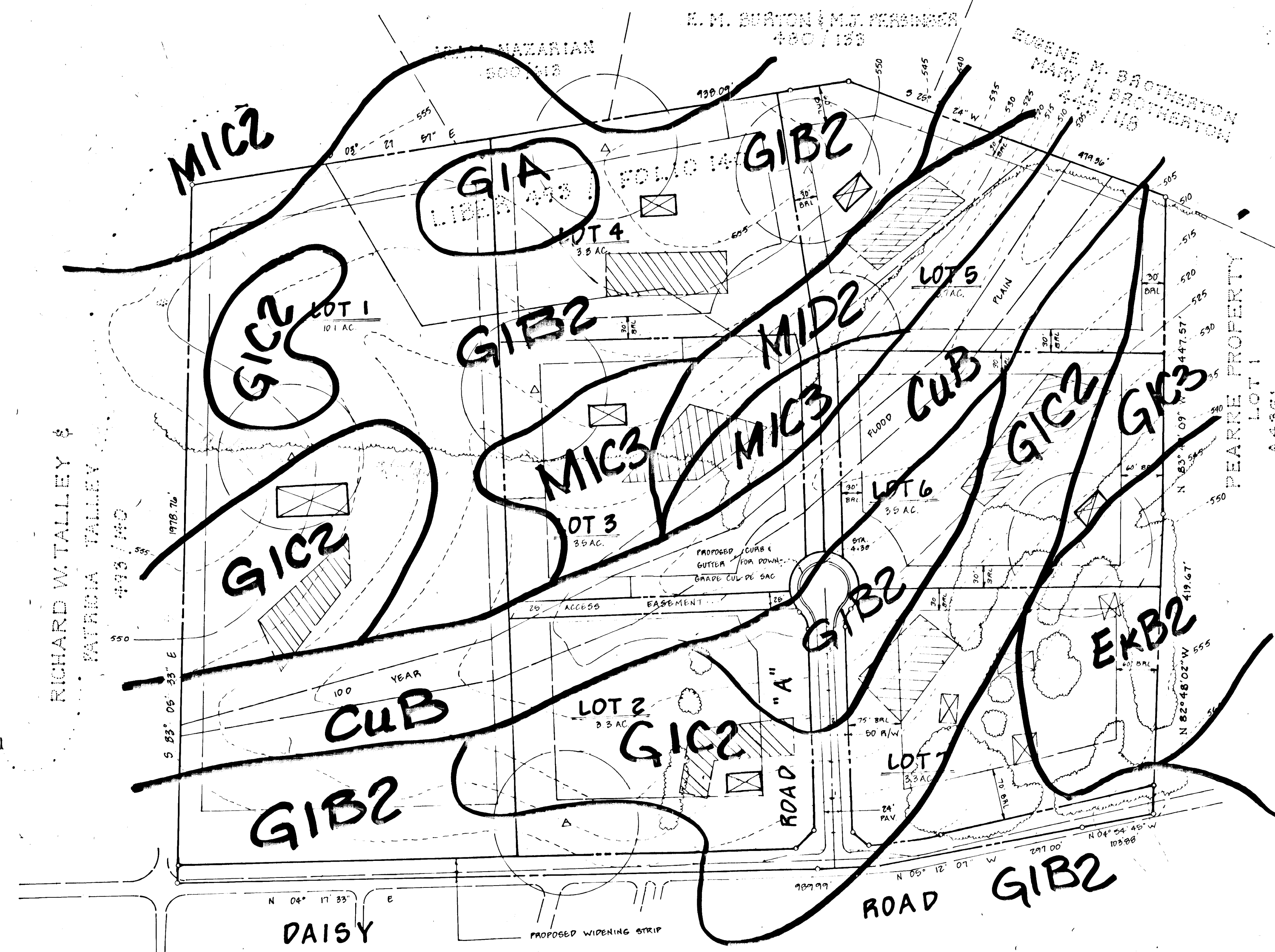
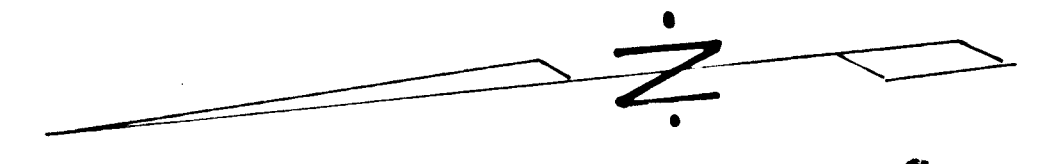
DESIGNED BY  
DRAWN BY  
CHECKED BY  
DATE: MARCH 1989  
SCALE: AS SHOWN  
Drwg. No. 4 OF 5

1433

F-89-57



VICINITY MAP  
SCALE: 1"=2000'



PLAN VIEW  
SCALE: 1"=100'

- GENERAL NOTES:
- EXISTING ZONING: "R"
  - GROSS AREA OF TRACT: 32.48
  - NUMBER OF LOTS PROPOSED: 7
  - DEED REFERENCE: 1781/619, 1781/621, 1789/601
  - TOPO SHOWN HEREON BASED ON HO. CO. 200' AERIAL MAP
  - CONTOUR INTERVAL: 5'
  - PUBLIC WATER AND SEWER SYSTEMS NOT EXISTING, PRIVATE WATER AND SEWER SYSTEMS TO BE UTILIZED
  - PUBLIC ROADWAYS PROPOSED WITHIN THIS SITE: 50' R.O.W. AND PAVEMENT WIDTH - 22' OPEN SECTION PROPOSED
  - DAISY ROAD IS AN EXISTING PUBLIC ROAD THROUGH LOTS TO BE DEDICATED TO HO. CO.
  - FLOOD PLAIN AND DRAINAGE EASEMENT WILL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS FOR SUBDIVISION ENTRANCES TO STATE HIGHWAYS
  - MINIMUM LOT WIDTH = 200' AT THE B.R.L.
  - SIDE STRUCKS = 30'
  - REAR STRUCKS = 60'
  - AREA OF PROPOSED ROADS = 1.5 ± AC.

MAP SYMBOL	HYDROLOGIC TYPE	DESCRIPTION
GIB2	B	-GLENRIG LOAM, 3-8% SLOPES MODERATELY ERODED.
GIC2	B	-GLENRIG LOAM, 8-15% SLOPES MODERATELY ERODED.
CuB	B	-COMUS SILT LOAM, LOCAL ALLOVIUM 3-8% SLOPES.
MIC3	B	-MANOR LOAM, 8-15% SLOPES SEVERELY ERODED.
MID2	B	-MANOR LOAM, 15-25% SLOPES MODERATELY ERODED.
GIA	B	-GLENRIG LOAM, 0-3% SLOPES
MIC2	B	-MANOR LOAM, 8-15% SLOPES MODERATELY ERODED.
GIC3	B	-GLENRIG LOAM, 8-15% SLOPES SEVERELY ERODED.
ERB2	B	-ELLOAK SILT LOAM, 3-8% SLOPES MODERATELY ERODED.

SOILS MAP

HOWARD COUNTY SOIL SURVEY SHEET #6

BOKA VALLEY  
TAX MAP B, PART OF PARCEL 43  
4TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

OWNER / DEVELOPER  
ROBERT AND KAREN RYNARZEWSKI  
1221 CHARTLEY COURT  
WOODBINE, MARYLAND 21797 (301) 347-8021

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
Chief, Land Development Division  
Date: 3/3/89  
Chief, Bureau of Engineering  
Date: 3-8-89

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
Chief, Division of Community Planning and Land Development  
DATE: \_\_\_\_\_

KIDDE CONSULTANTS, INC.  
ENGINEERS • PLANNERS • SURVEYORS  
1100 WEST STREET, SUITE 100, LAUREL, MD 20707  
(301) 363-1821 782-8086 (Ext. 1)

DATE: \_\_\_\_\_ REVISION: \_\_\_\_\_ BY: \_\_\_\_\_

SURVEYED BY: \_\_\_\_\_

COMPUTED BY: \_\_\_\_\_

DRAWN BY: \_\_\_\_\_

CHECKED BY: \_\_\_\_\_

DATE: \_\_\_\_\_ SCALE: AS SHOWN

Drwg. No. 50F5

F-89-59

1733