

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN OF CONCORD DR., CHAMBRIDGE DR., AND MISSION RD
3	ROADWAY PROFILES
4	DETAILS AND STORM DRAIN PROFILES
5	DRAINAGE AREA MAP
6	SWM, SEDIMENT CONTROL & GRADING PLAN
7	SEDIMENT CONTROL AND SWM. NOTES AND DETAILS
8	STREET TREE PLAN

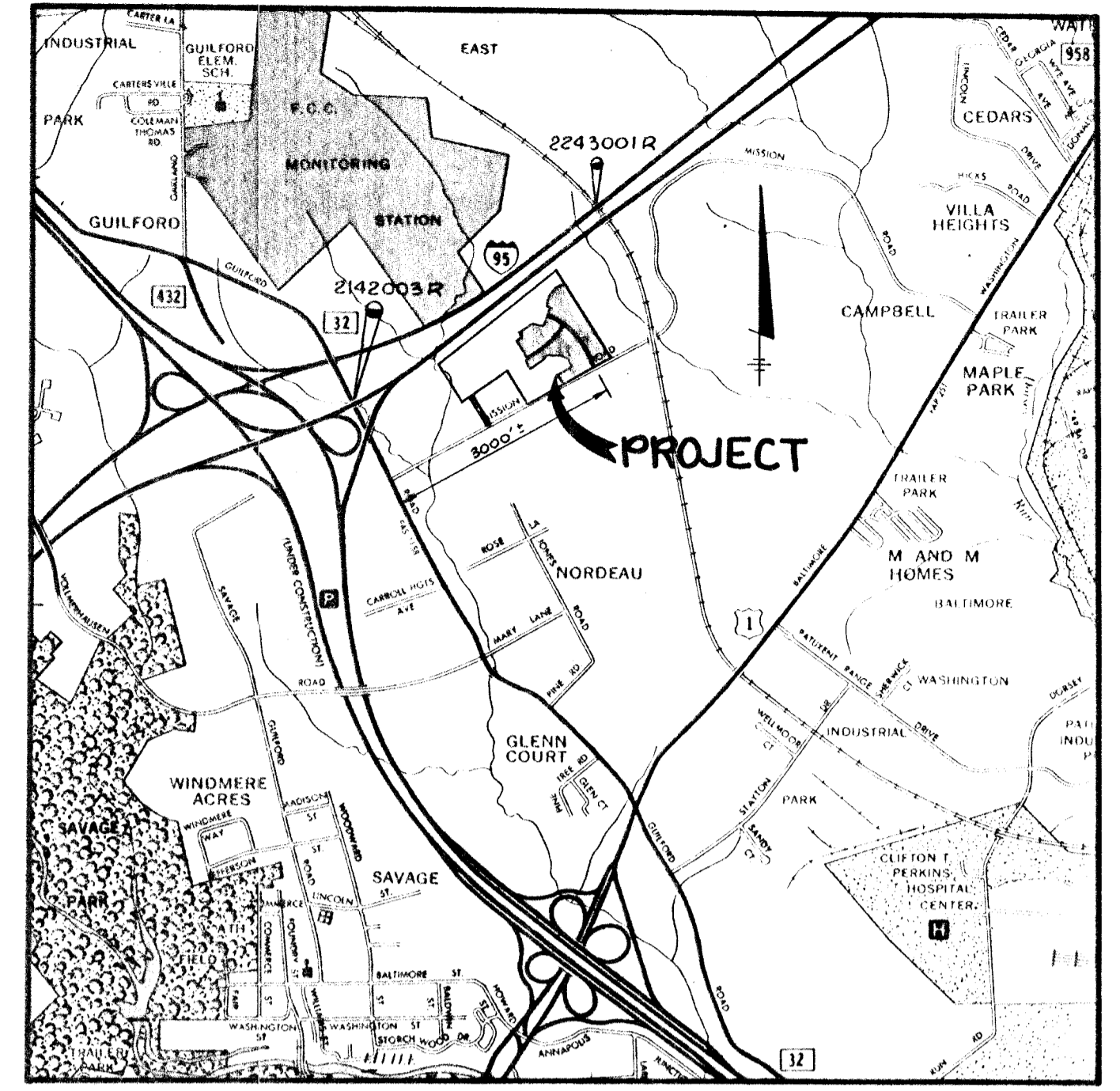
# ROADWAY, STORM DRAIN & STORM WATER MANAGEMENT

## HERITAGE WOODS

### SECTION 2 , AREA 1

### 6TH ELECTION DISTRICT

## HOWARD COUNTY , MARYLAND



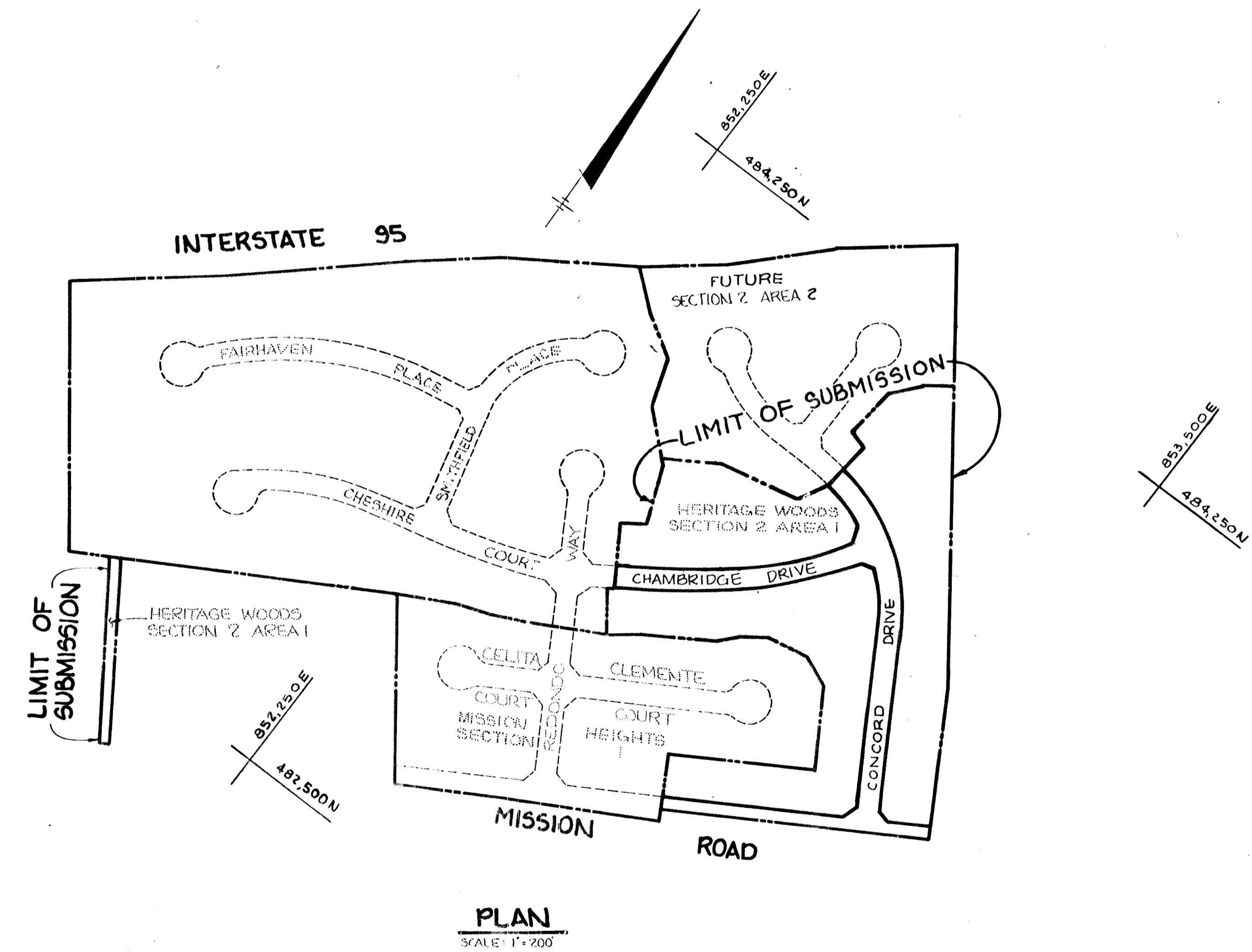
**VICINITY MAP**  
SCALE: 1" = 2000'

HC BM #2142003-R ELEV. 328.746  
CONCRETE MONUMENT 6' ± EAST OF END OF  
CONCRETE CURB ON RTE. I-95 NORTHBOUND LANE  
0.1' BELOW SURFACE.

HC BM #2243001-R ELEV. 332.929  
CONCRETE MONUMENT 9' ± EAST OF END EDGE OF  
MACADAM 50' ± NORTH OF BRIDGE OVER R-R  
TRACKS FLUSH WITH SURF.

- GENERAL NOTES**
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR ROAD CONSTRUCTION.
  - APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
  - THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES WHERE DIRECTED BY THE ENGINEER. A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
  - CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES AT LEAST THREE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
 

BELL TELEPHONE SYSTEM	393-3649
LONG DISTANCE CABLE DIVISION	393-3553 OR 3554
BALTIMORE GAS AND ELECTRIC	539-8000 EXT. 691
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
HOWARD COUNTY CONSTRUCTION INSPECTION SURVEY DIVISION	992-2417/2418
  - ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
  - ALL STREET CURB RETURNS SHALL HAVE 25.0' RADII UNLESS OTHERWISE NOTED.
  - STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
  - INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1971 EDITION.
  - PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
  - DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS:  
ALL CUL-DE-SAC DESIGNED FOR 30 M.P.H., ALL LOCAL STREETS DESIGNED FOR 30 M.P.H.
  - ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM 1929.
  - ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM 95% OF MAXIMUM OBTAINABLE DENSITY DETERMINED BY MARSHALL PROCTOR.
  - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
  - PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
  - SUBJECT PROPERTY ZONED R-SC PER 10-3-77 COMPREHENSIVE ZONING PLAN.



APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING	
<i>[Signature]</i>	8/22/85
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	
DATE	
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>[Signature]</i>	
CHIEF, BUREAU OF ENGINEERING	
DATE	
NO.	REVISION

**TRACY, SCHULTE & ASSOCIATES INC.**  
planning • architecture • engineering

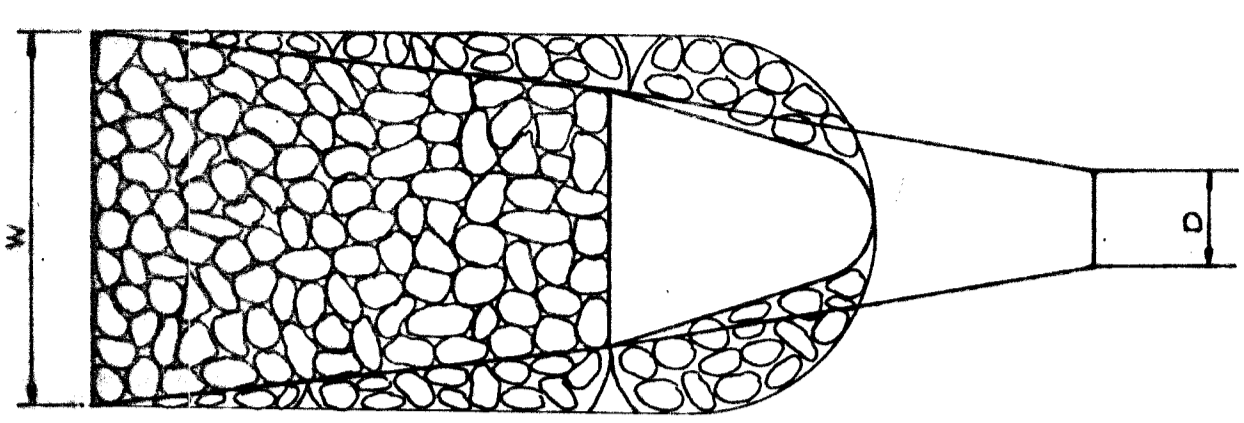
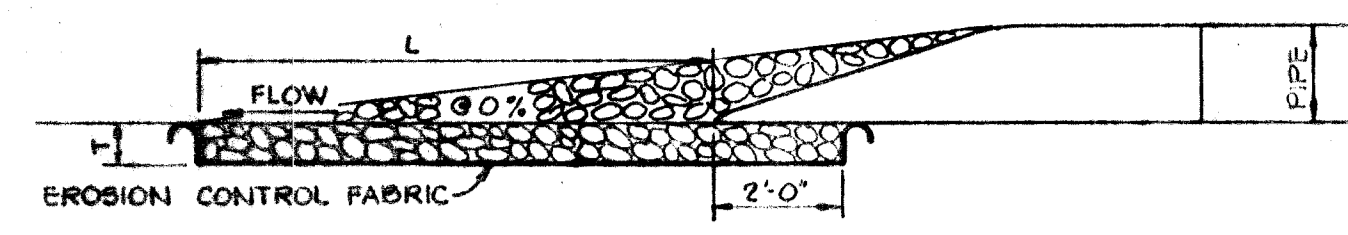
8450 Baltimore National Pike • Suite 34 • Ellicott City, Maryland 21043 • (301) 465-6105

<b>OWNER</b>		<b>PROJECT</b>	
GREENBRIAR VENTURE 8450 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD 21043		<b>HERITAGE WOODS</b> SECTION 2 AREA 1 LOTS 119 THRU 122	
<b>DEVELOPER</b>		<b>LOCATION</b>	
SECURITY DEVELOPMENT CORP 8450 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD 21043		TAX MAP NO 42 PARCELS 77 & 371	
		ELECTION DISTRICT N° 6 HOWARD COUNTY, MARYLAND	
		<b>TITLE</b>	
		TITLE SHEET	
		<b>DATE</b> APRIL 25, 1985	
		<b>PROJECT NO.</b> 0582.RSD	
<b>DES.</b> JKT		<b>DRN.</b> KAM	
		<b>SCALE</b> 1" = 200'	
		<b>DRAWING</b> 1 OF 8	

3/7/88

CURVE DATA  
 CONCORD DRIVE  
 STA 4+24.16 TO STA 7+74.23  
 Δ=47°11'35"  
 R=425.00'  
 L=350.00'  
 T=185.651'  
 D=13°30'46"  
 Chd=N 52°45'44"W, 340.255'

CURVE DATA  
 CHAMBRIDGE DR.  
 STA 0+81.57 TO STA 5+21.87  
 Δ=25°12'16"  
 R=1000.00'  
 L=439.90'  
 T=223.57'  
 D=05°43'55"  
 Chd=N 48°15'57"E, 436.36'



STRUCTURE	MEDIUM STONE DIA.	LENGTH (L)	WIDTH (W)	THICKNESS (T)
E-1	4"	10.0'	13.0'	6"
E-3	5"	10.5'	16.2'	8"
E-5	6"	16.5'	18.5'	9"
E-6	3"	4.0'	5.3'	5"

OUTLET PROTECTION DETAIL  
NO SCALE

RELOCATE EX. POWER POLES AS NECESSARY.  
 POWER POLE RELOCATION SHALL BE RESPONSIBILITY OF DEVELOPER.

NO.	TYPE	LOCATION	INV IN	INV OUT	TOP ELEV	REMARKS
✓ I-1	A-5	14.85' Rt of & STA 7+04.29 Concord Drive	302.83	302.61	307.85	HC std SD 4.01
✓ I-2	A-10	14.5' Lt of & STA 7+04.29 Concord Drive	304.04	303.54	307.50	HC std SD 4.02
✓ I-3	A-5	15' Lt of & STA 0+81.57 Chambridge Drive	305.23	304.98	308.92	HC std SD 4.01
✓ I-4	A-10	15.5' Lt of & STA 6+04.22 Concord Drive	305.23	305.18	308.44	HC std SD 4.02
✓ I-5	A-5 w/ deflectors	28.35' Rt of & STA 2+29.00 Mission Road	300.00	300.00	304.07	HC std SD 4.01
✓ I-6	A-5 w/ deflectors	151.8' Rt of & STA 0+44.00 Concord Drive	305.05	304.75	307.80	HC std SD 4.01
I-7	A-5	See Plan	-	324.73	322.62	HC std SD 4.01
✓ E-1	12" Metal End Section	23.5' RAMP SEE See Plan	-	-	297.62	HC std SD 5.61
✓ E-2	12" Metal End Section	See Plan	297.90	-	-	HC std SD 5.61
✓ E-3	24" Metal End Section	See Plan	-	-	297.70	HC std SD 5.61
✓ E-4	24" Metal End Section	See Plan	299.02	-	-	HC std SD 5.61
✓ E-5	24" Metal End Section	122' Rt of & STA 7+04.29 Concord Drive	-	300.70	-	HC std SD 5.61
✓ E-6	15" Metal End Section	12.75' Rt of & STA 1+01.00 Mission Road	-	291.59	-	HC std SD 5.61
M-1	Shallow Manhole	12.75' Rt of & STA 1+39.00 Mission Road	291.98	291.78	292.33	HC std SD 5.05

All storm drain pipe bedding shall be class "C" unless otherwise noted.

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*[Signature]* 8-22-85  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*[Signature]* 8-22-85  
 CHIEF, BUREAU OF ENGINEERING DATE

NO	DATE	REVISION

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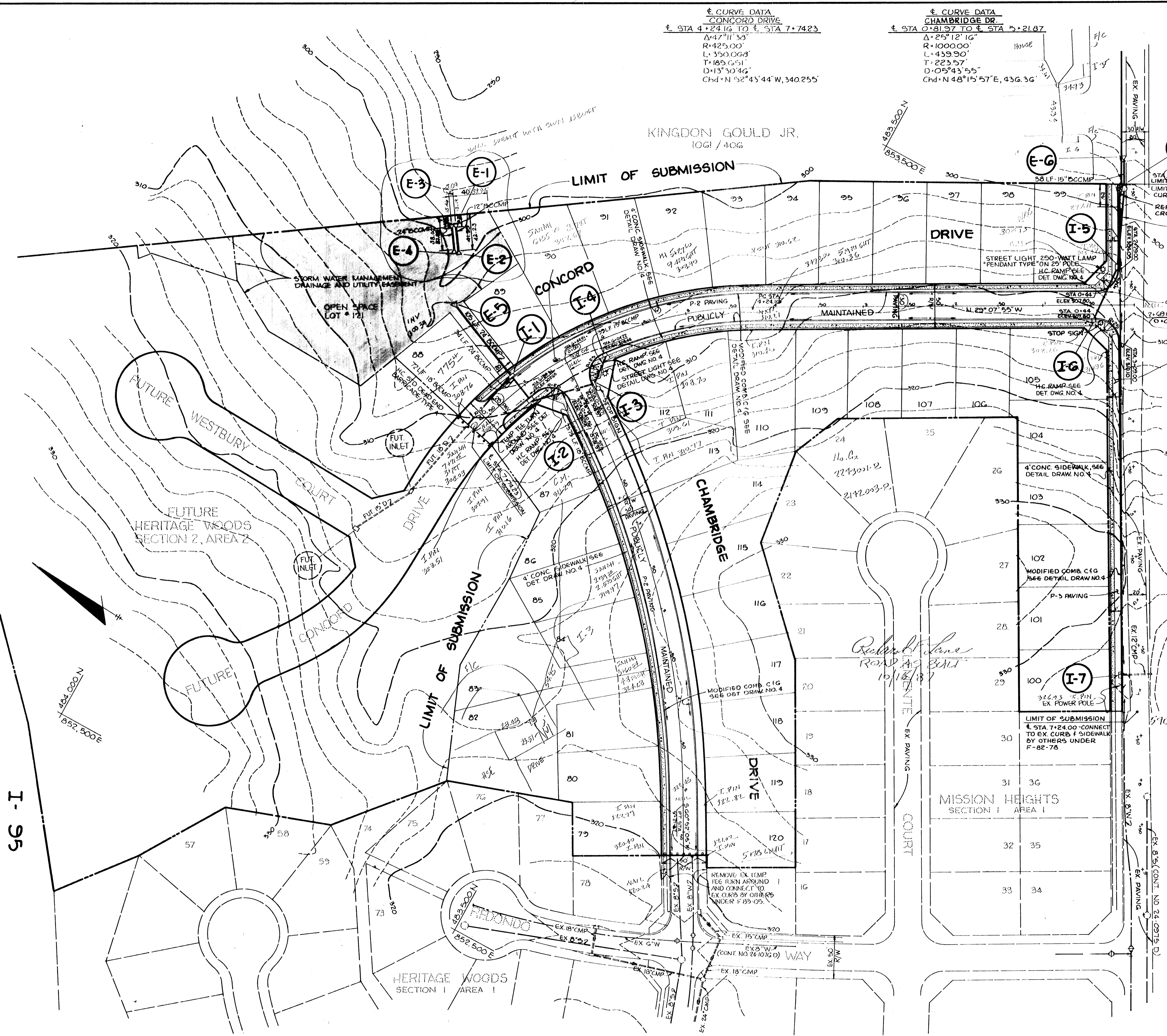
OWNER:  
 GREENBRIAR VENTURE  
 8450 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MD. 21043

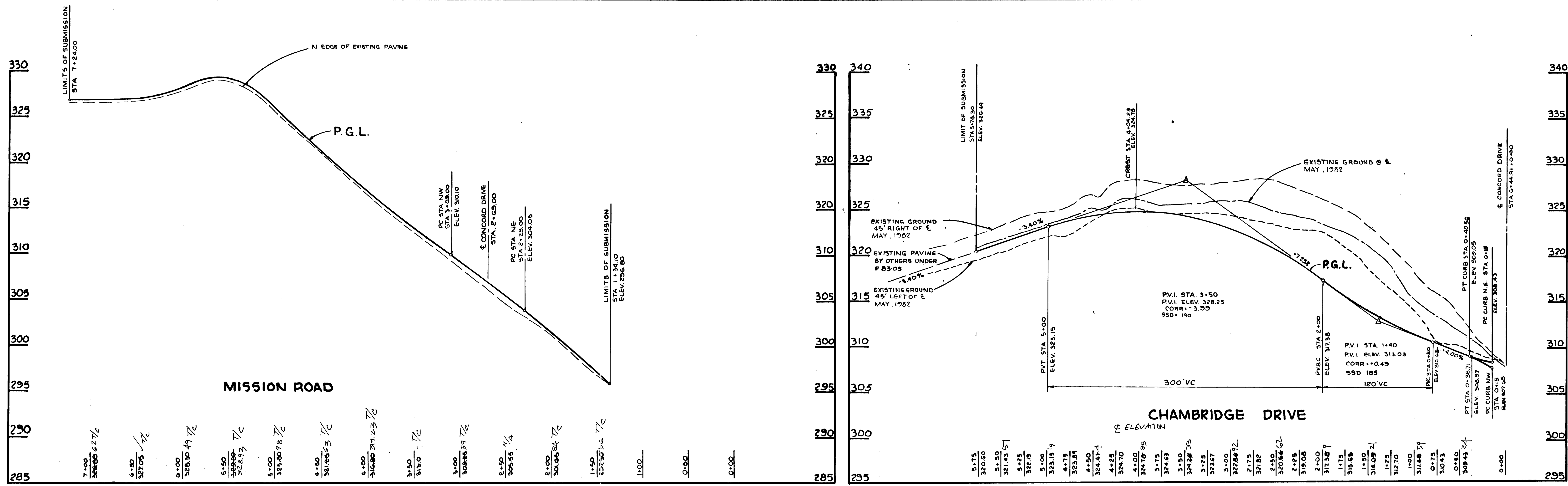
PROJECT:  
**HERITAGE WOODS**  
 SECTION 2, AREA 1 LOTS 79 THRU 122  
 LOCATION: TAX MAP 42  
 PARCELS 77 & 371  
 ELECTION DISTRICT N#6 HOWARD COUNTY MARYLAND

DEVELOPER:  
 SECURITY DEVELOPMENT CORP  
 8450 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MD. 21043

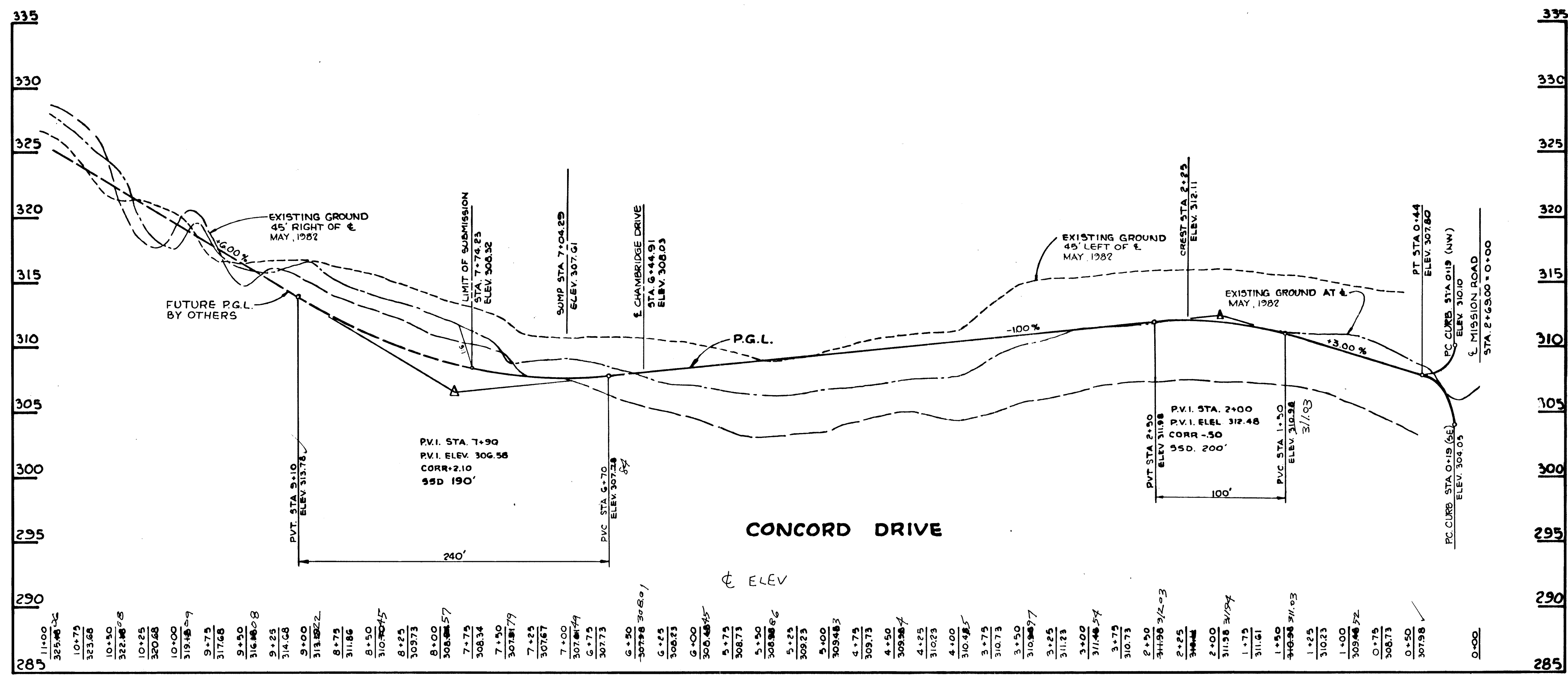
TITLE: **PLAN OF CONCORD DRIVE,  
 CHAMBRIDGE DRIVE, AND  
 MISSION ROAD**

DATE: APRIL 29, 1985 PROJECT NO: 0582 RSD  
 DES: JKT DRN: KAM SCALE: 1"=50' DRAWING 2 OF 3





AS-BUILT SURVEY CERTIFIED BY JAMES KENNETH TRACY  
REG. P.E. NO. 9566 ON OCT. 19, 1987



Richard F. Lane  
ROAD AS BUILT  
10/16/87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING <i>[Signature]</i> CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	8-22-85 DATE	
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>[Signature]</i> CHIEF, BUREAU OF ENGINEERING	DATE	
NO	DATE	REVISION

**TRACY, SCHULTE & ASSOCIATES INC.**  
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OWNER: GREENBRIAR VENTURE  
8450 BALTIMORE NATIONAL PIKE  
ELLICOTT CITY, MARYLAND 21043

PROJECT: HERITAGE WOODS  
SECTION 2, AREA 1, LOTS 79 THRU 122  
LOCATION: TAX MAP 42  
PARCELS 77 & 371  
ELECTION DISTRICT N<sup>o</sup> 6 HOWARD COUNTY MARYLAND

DEVELOPER: SECURITY DEVELOPMENT CORP.  
8450 BALTIMORE NATIONAL PIKE  
ELLICOTT CITY, MARYLAND 21043

TITLE: PROFILES OF CONCORD DRIVE,  
CHAMBRIDGE DRIVE AND MISSION ROAD

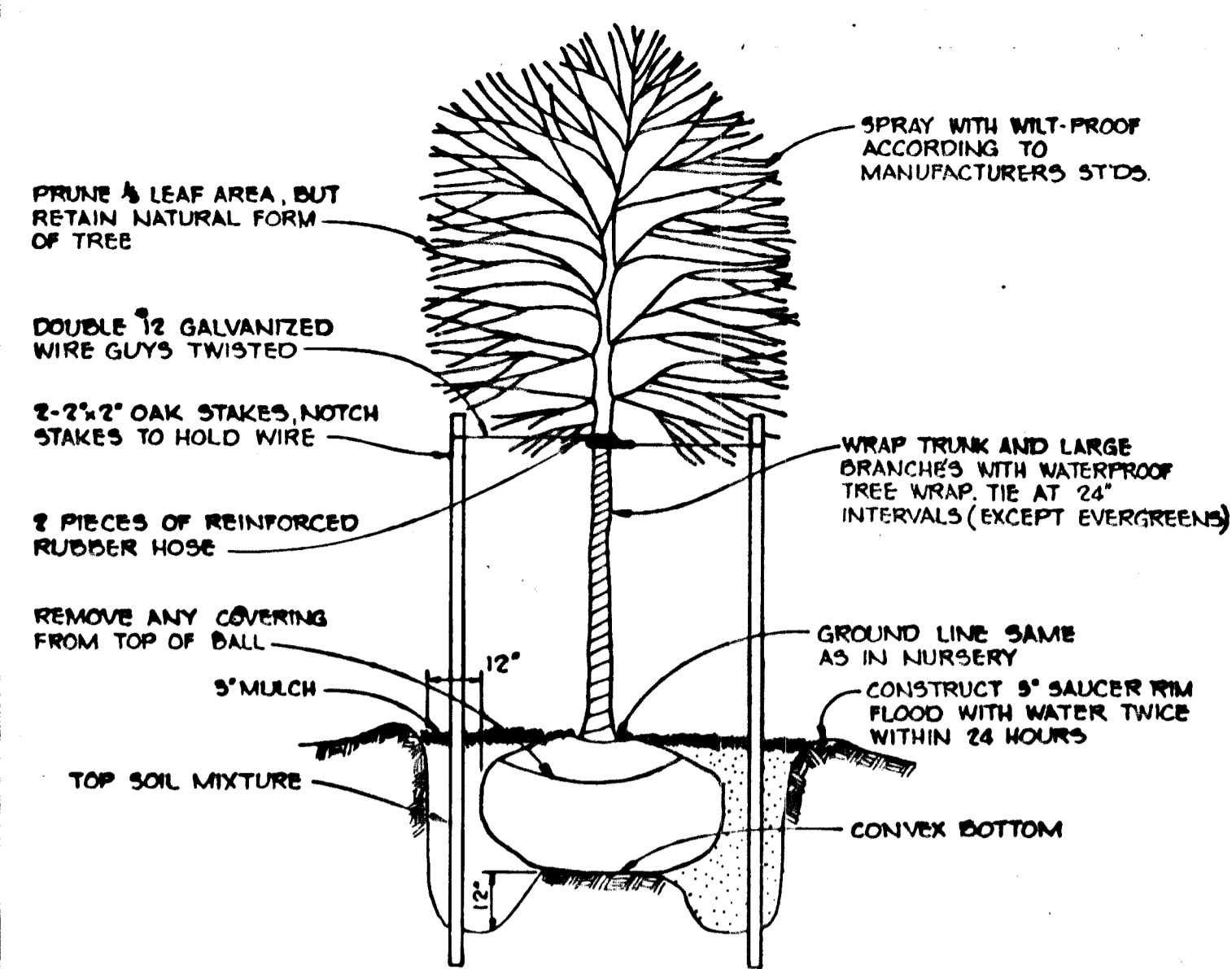
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PROJECT NO: 0582 RSD

DES: JKT  
DRN: LRC

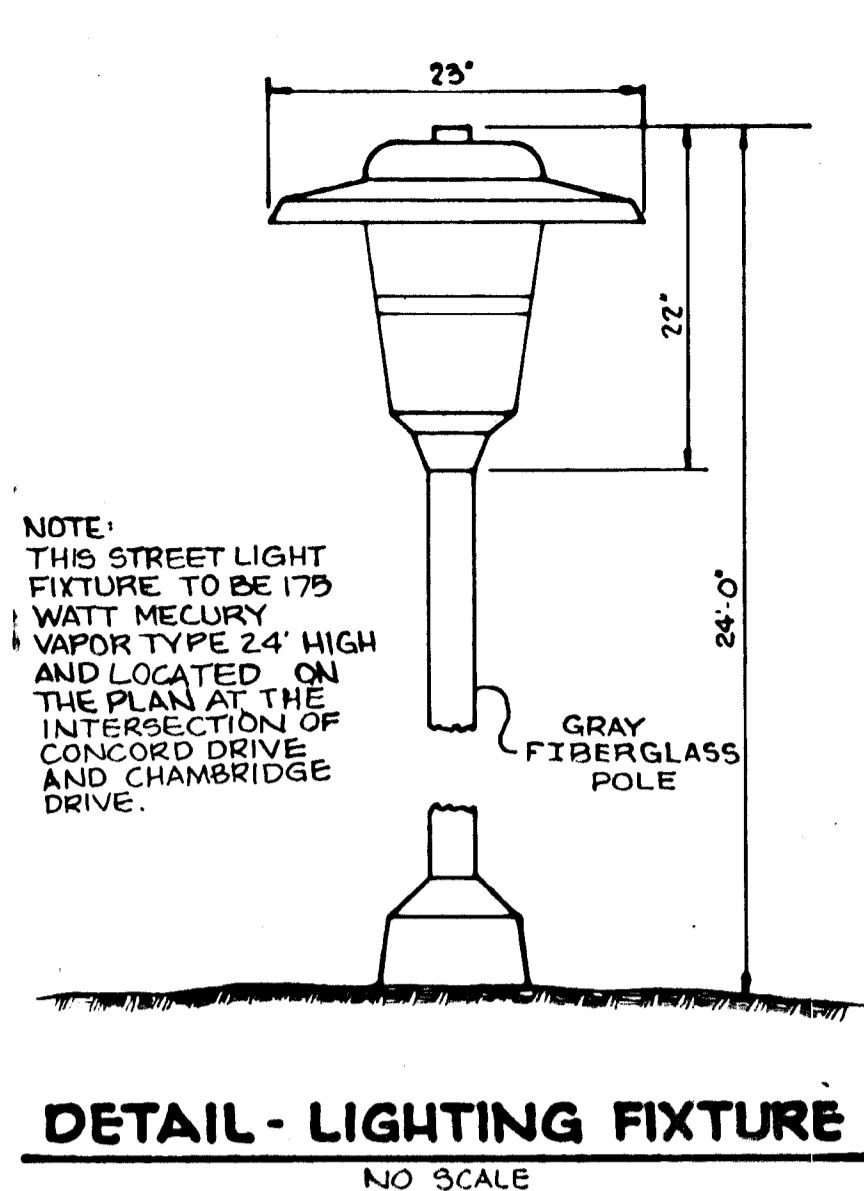
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V: 1"=5'

DRAWING: 3 OF 8

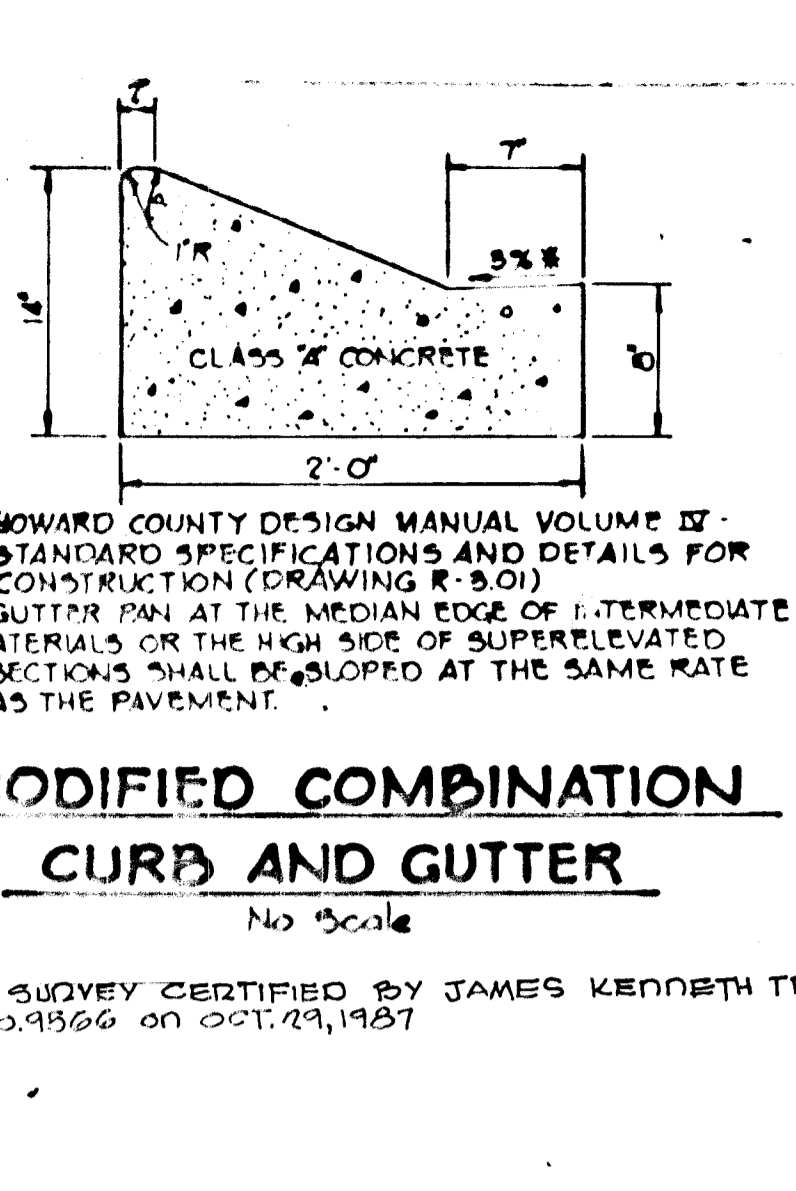
3/12/88



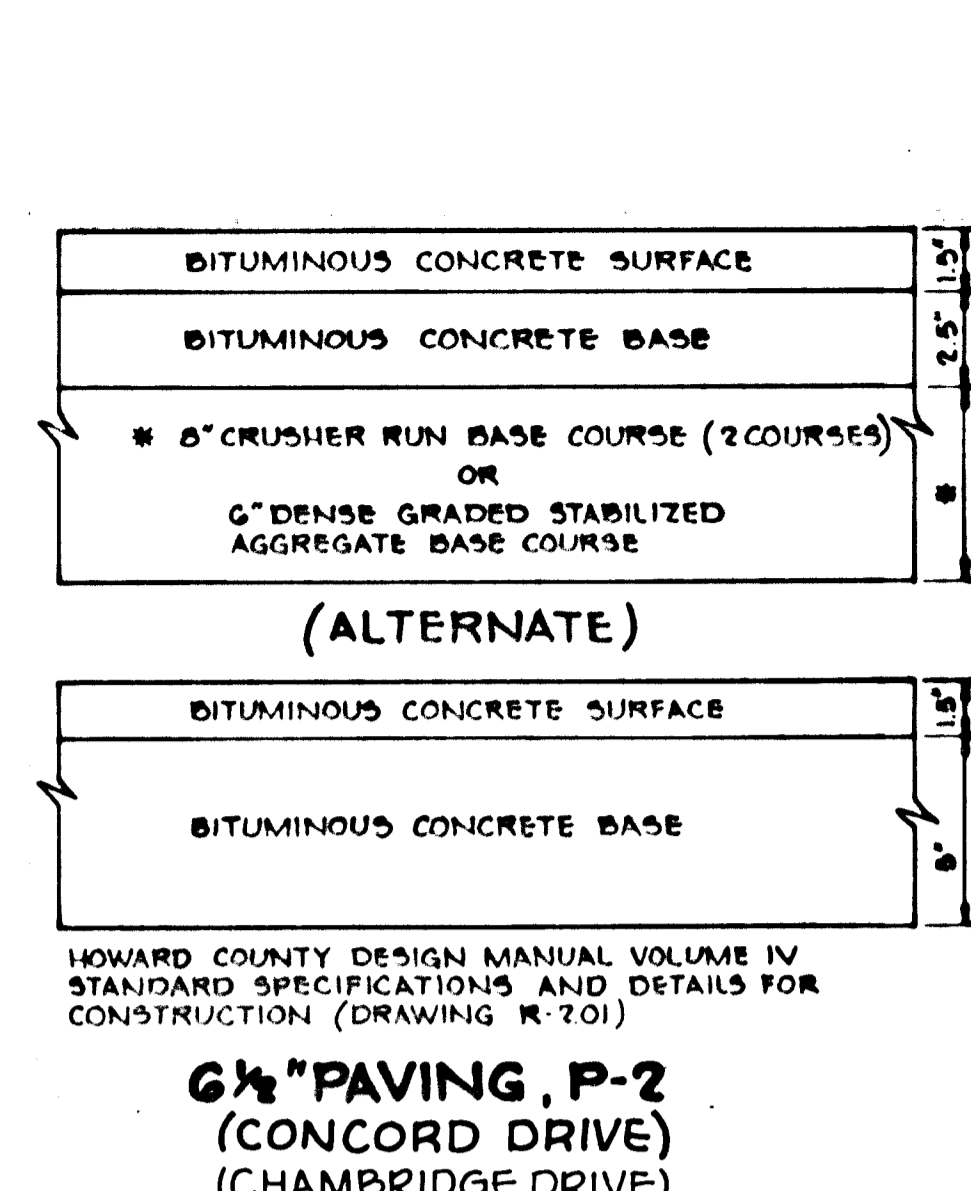
**TREE PLANTING DETAIL**  
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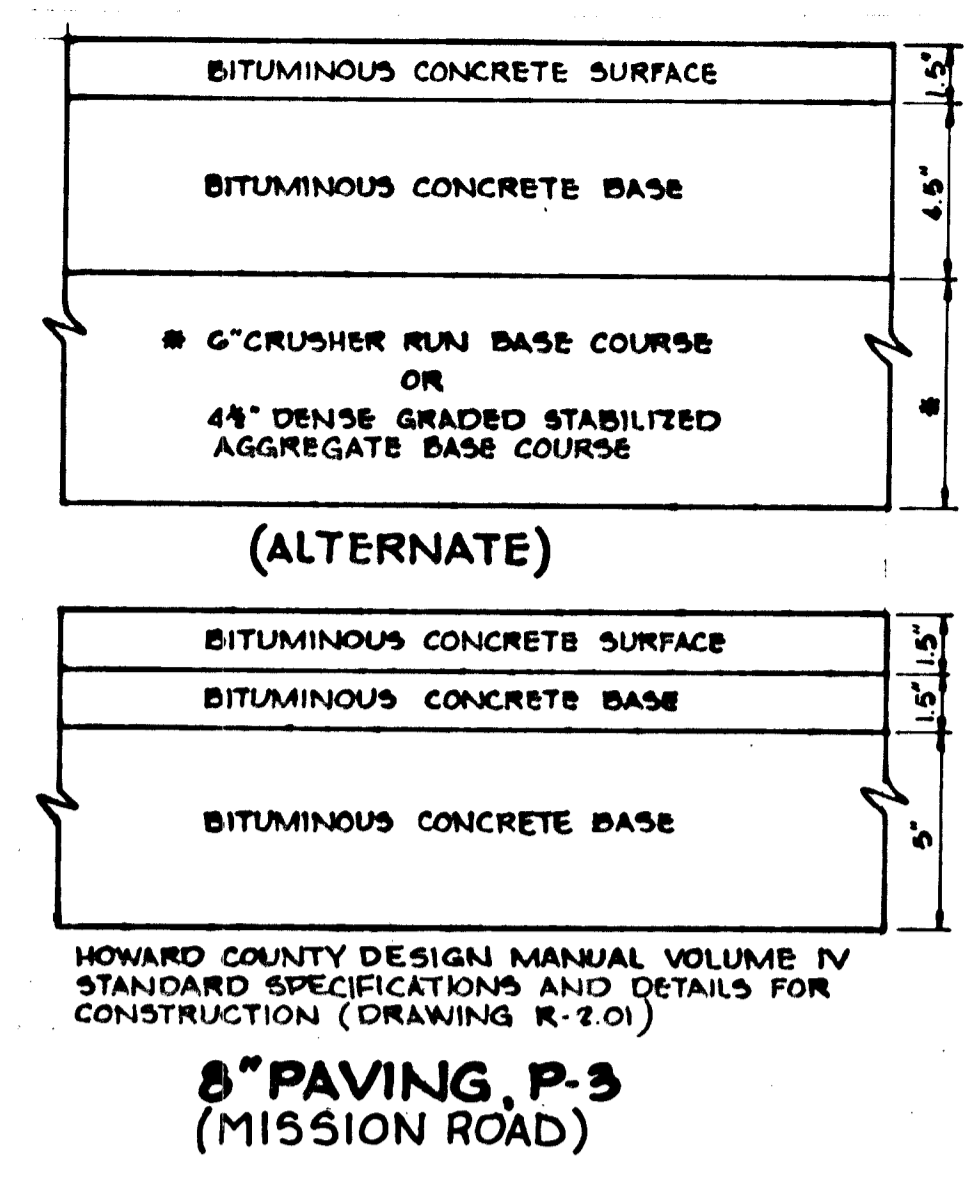
**DETAIL - LIGHTING FIXTURE**  
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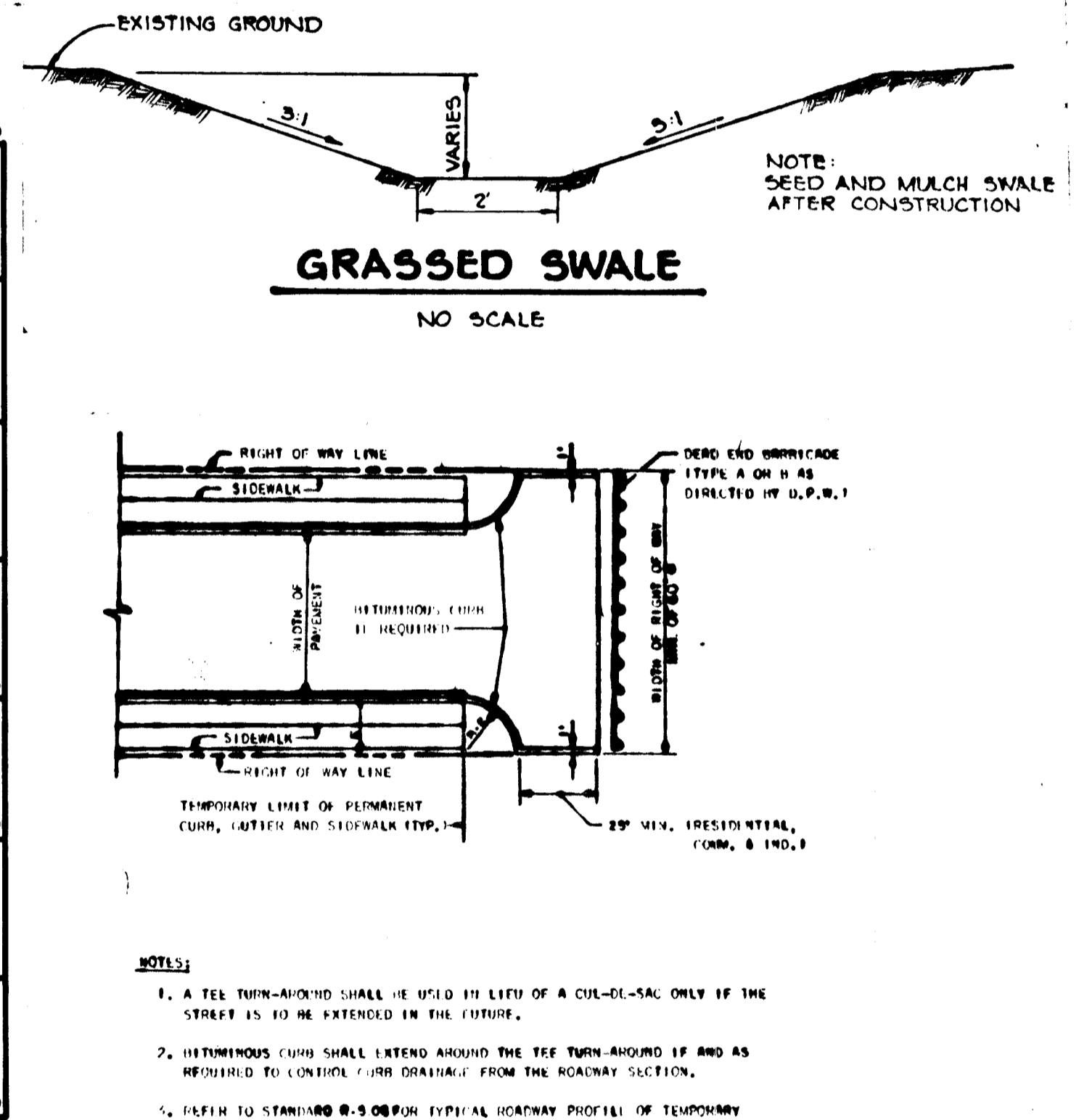
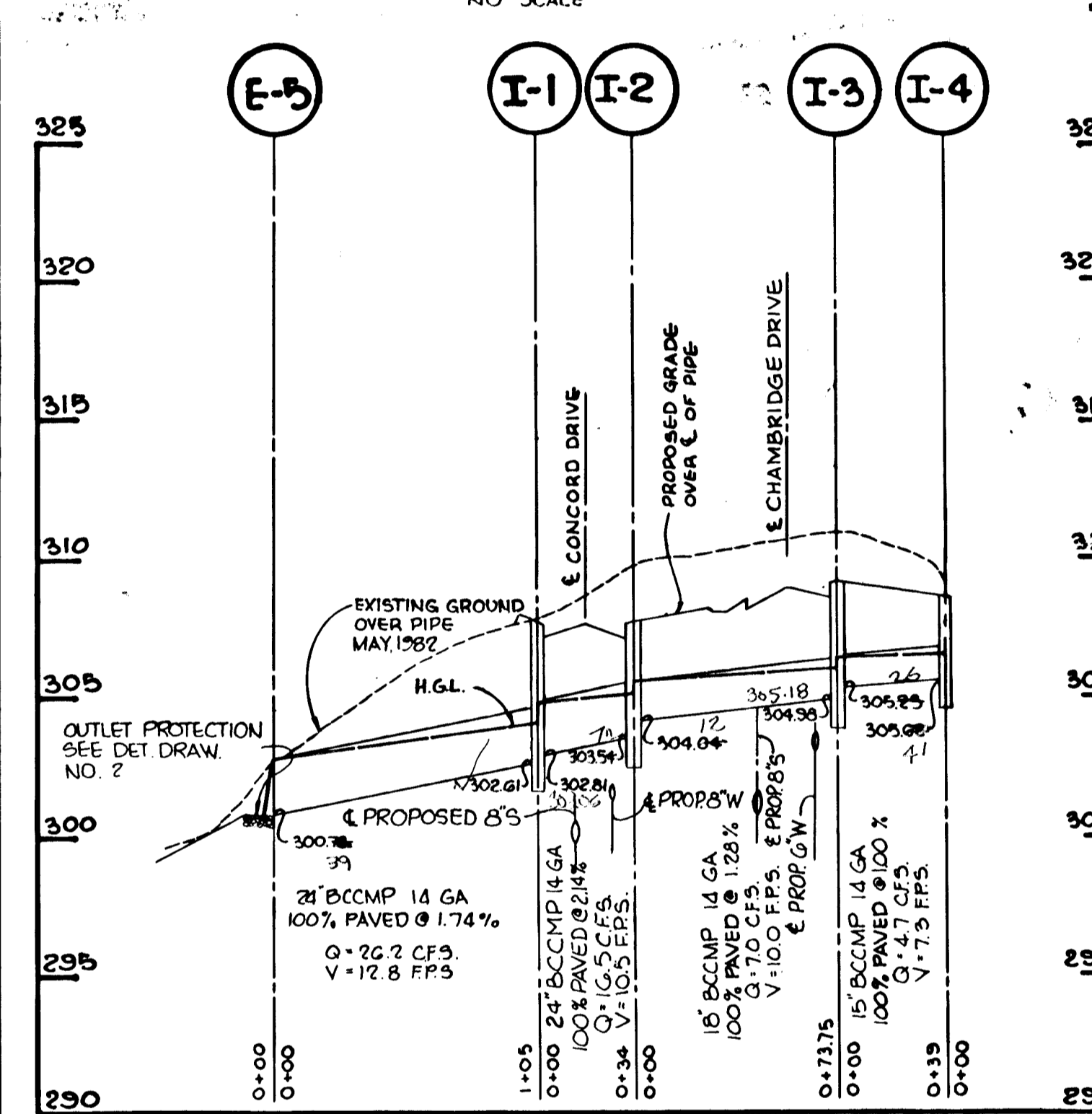
**MODIFIED COMBINATION CURB AND GUTTER**  
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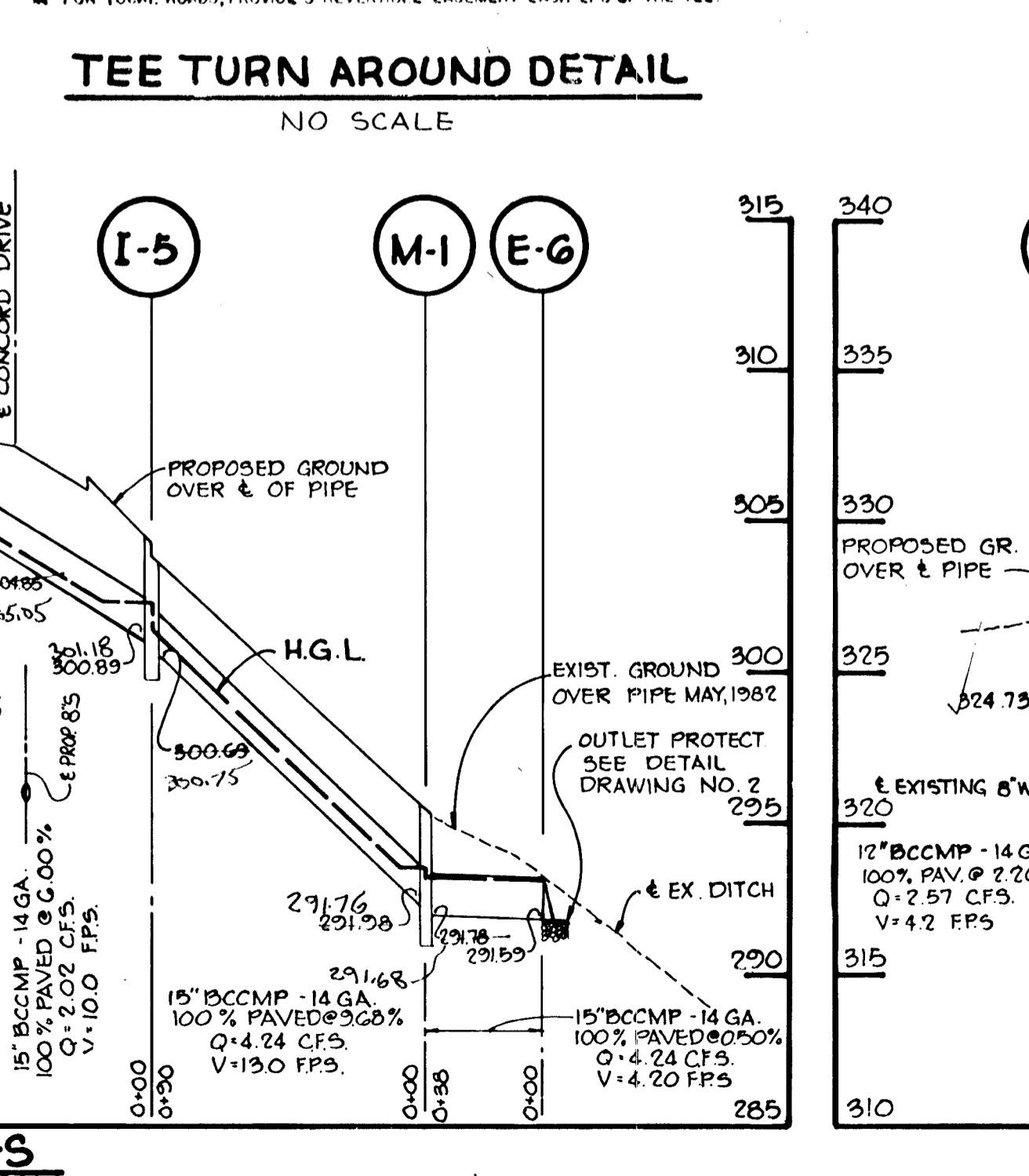
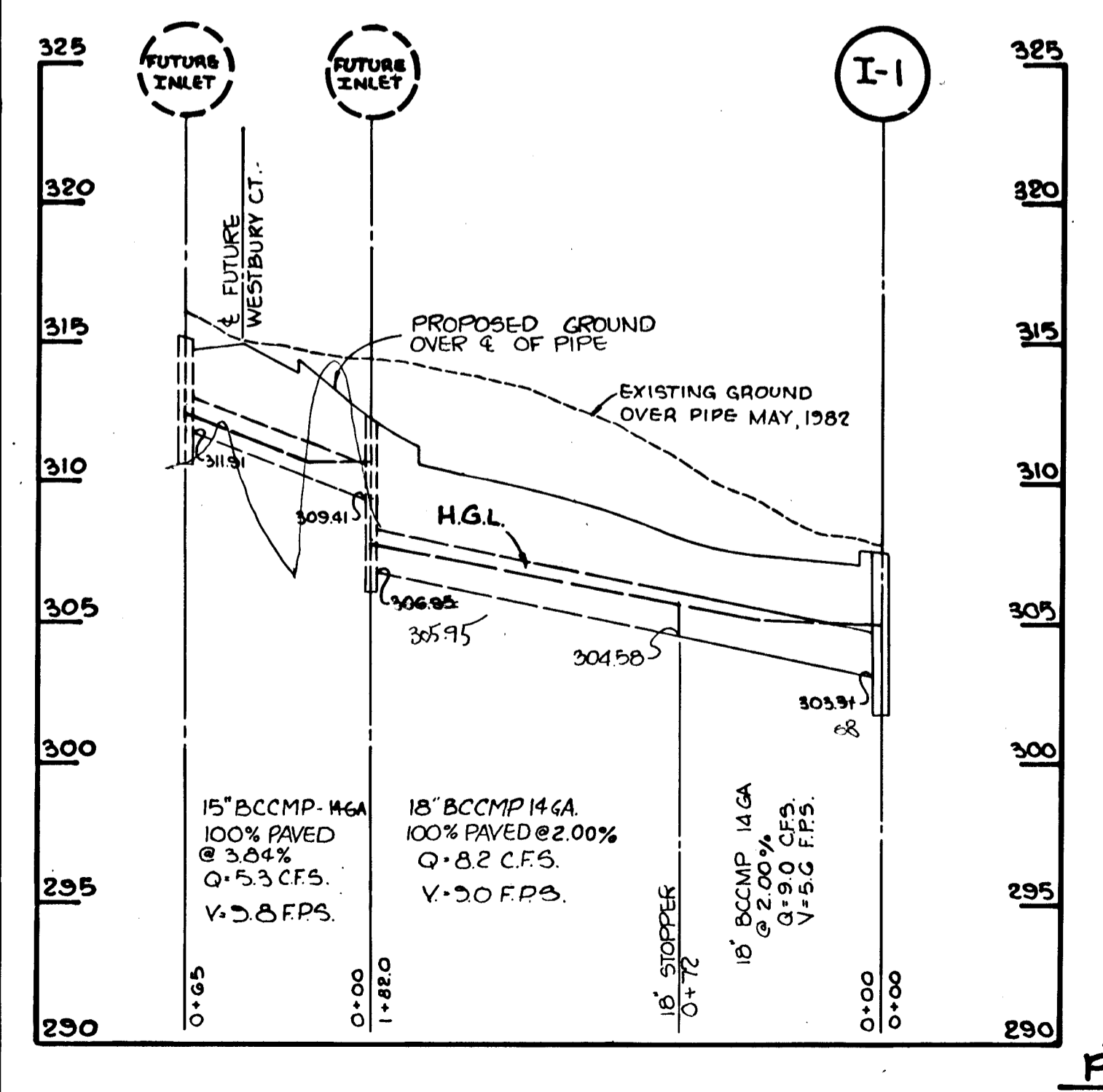
**6 1/2\"/>**



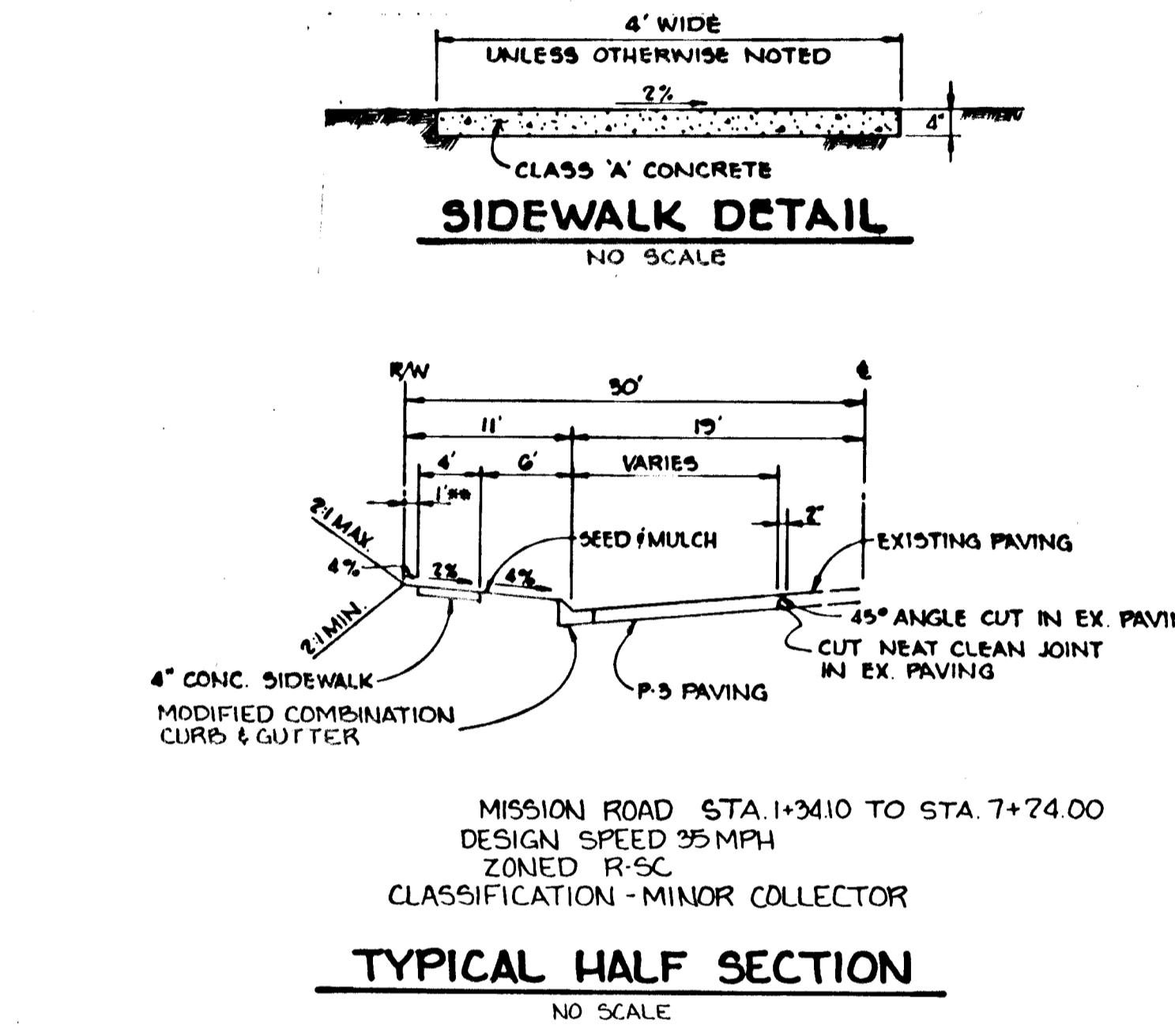
**8\"/>**



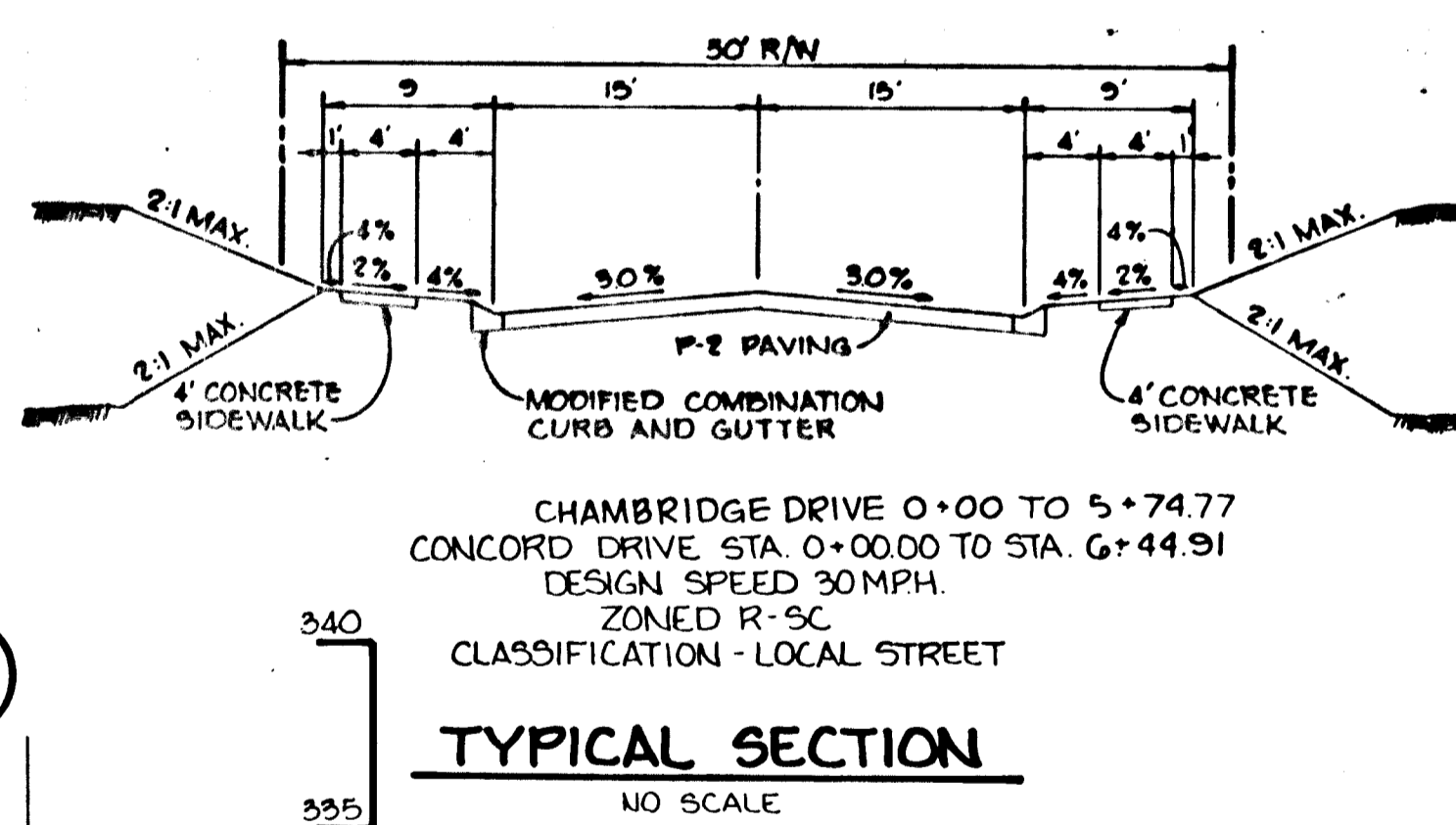
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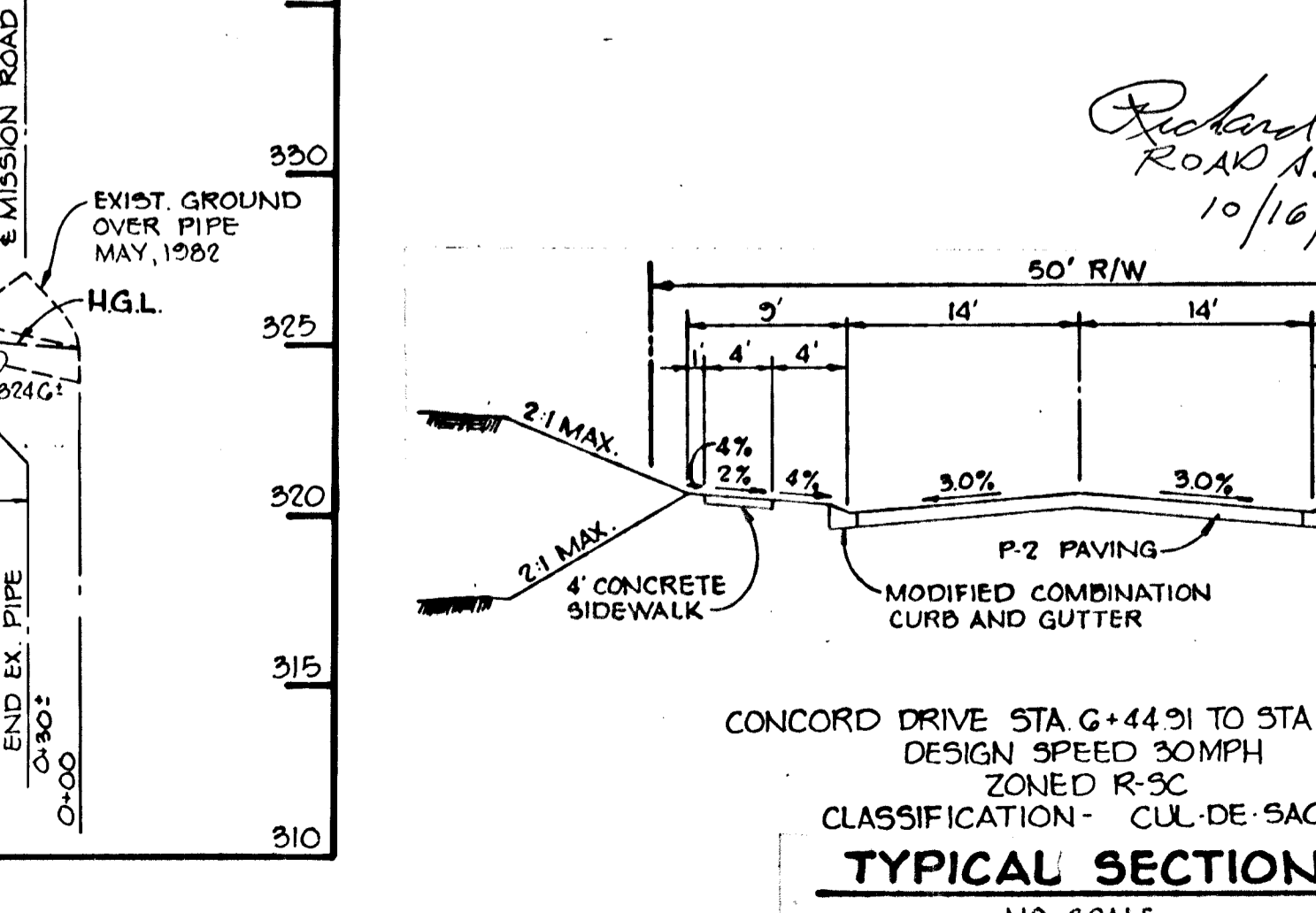
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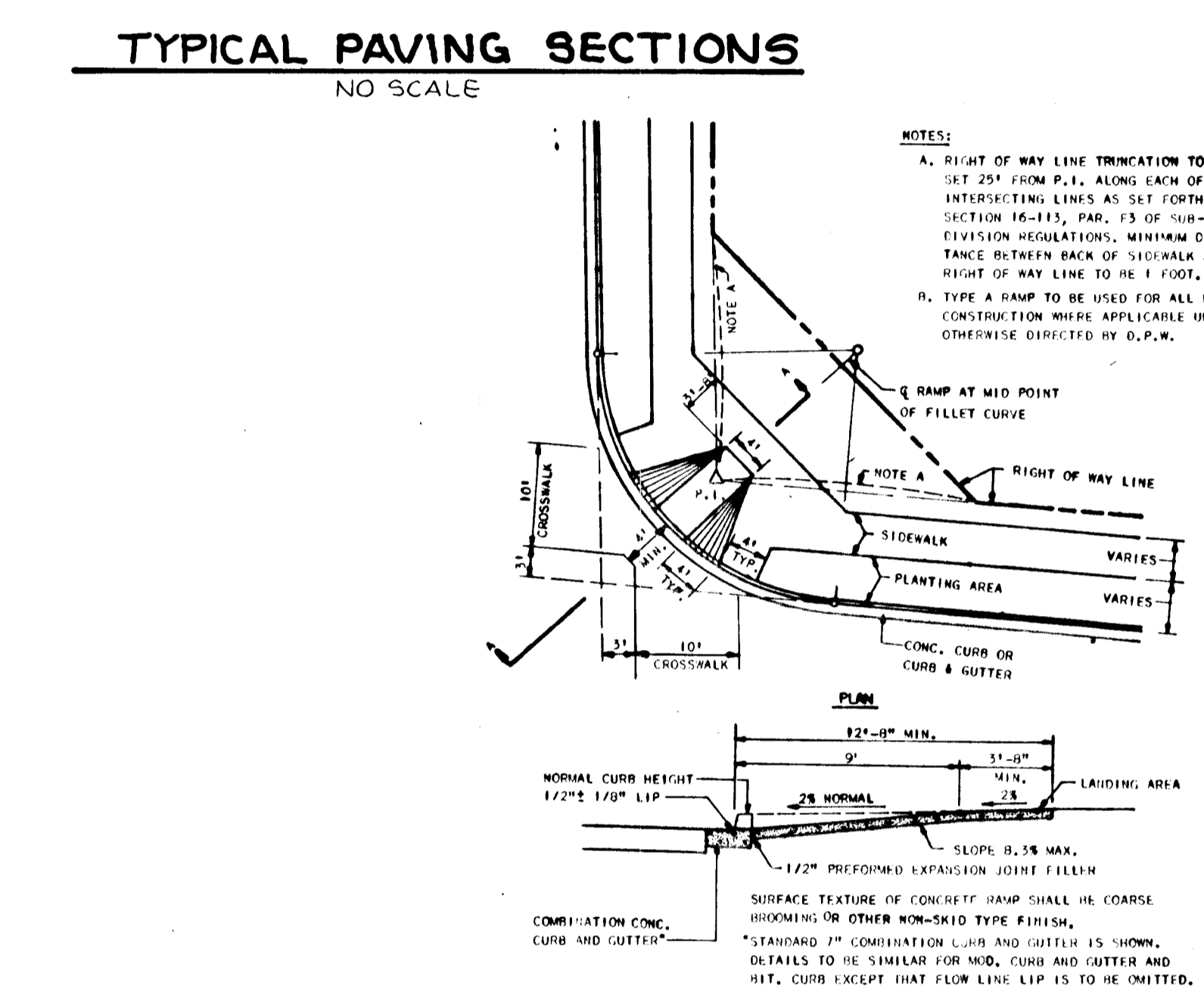
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NO SCALE



**TYPICAL SECTION**  
NO SCALE



**TYPICAL SECTION**  
NO SCALE

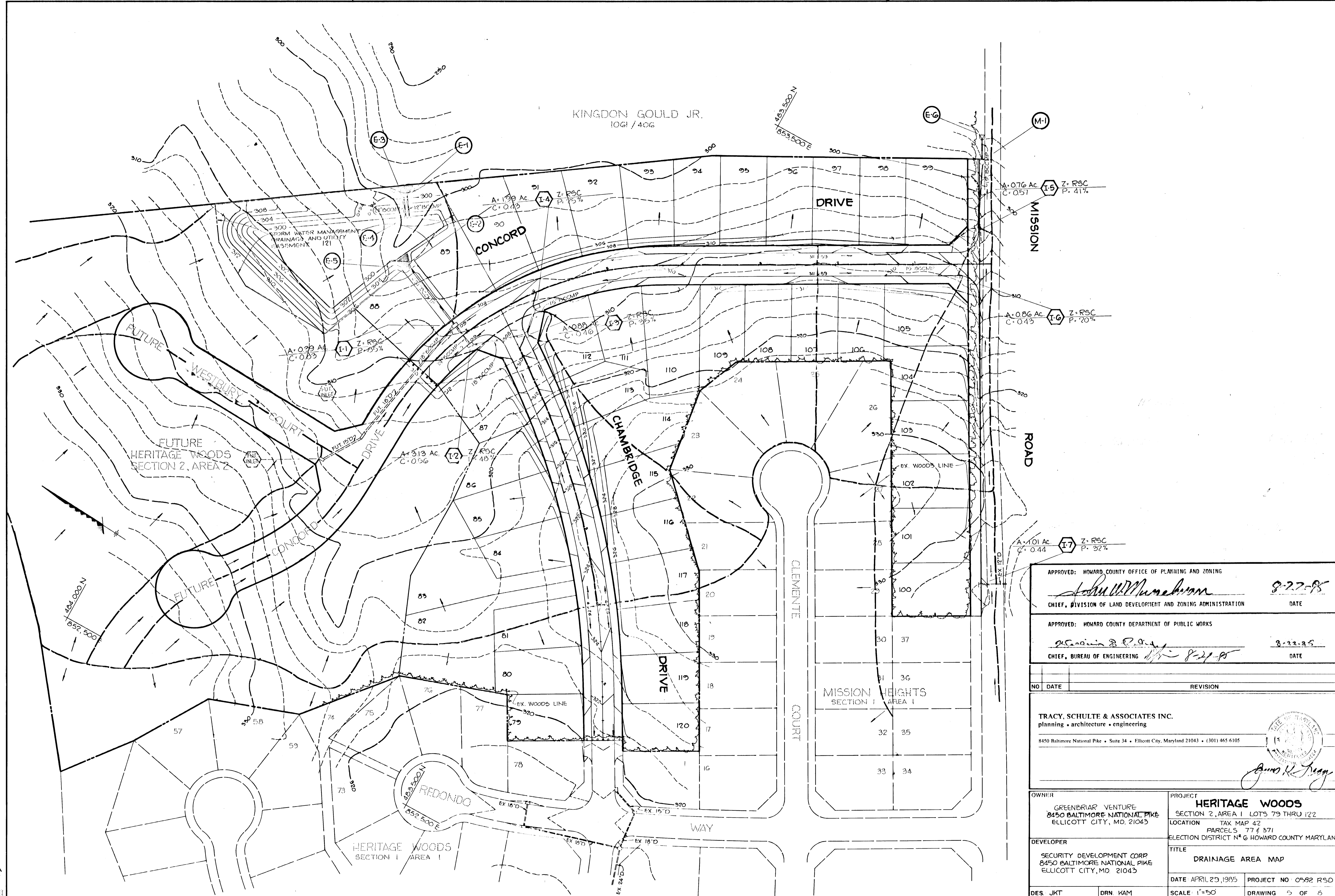


**HANDICAPPED RAMP**  
NO SCALE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING		3/22/88 DATE	
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION			
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS		3/22/88 DATE	
CHIEF, BUREAU OF ENGINEERING			
NO	DATE	REVISION	
<b>TRACY, SCHULTE &amp; ASSOCIATES INC.</b> planning • architecture • engineering 8450 Baltimore National Pike • Suite 34 • Ellicott City, Maryland 21043 • (301) 465 6105			
OWNER		PROJECT:	
GREENBRIAR VENTURE 8450 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD. 21043		<b>HERITAGE WOODS</b> SECTION 2 AREA 1 LOTS 79 THRU 122	
DEVELOPER		TITLE	
SECURITY DEVELOPMENT CORP 8450 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD. 21043		<b>DETAILS AND STORM DRAIN PROFILES</b>	
DES: JKT		DATE: APRIL 29, 1985	
DRN: KAM		PROJECT NO: 0582 RSD	
SCALE: AS SHOWN		DRAWING 4 OF 8	

#967

3/9/88



APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*John W. Murchison* 8-22-85  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*William B. P. ...* 8-22-85  
 CHIEF, BUREAU OF ENGINEERING DATE

NO	DATE	REVISION

**TRACY, SCHULTE & ASSOCIATES INC.**  
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*Ann K. ...*

OWNER GREENBRIAR VENTURE 8450 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD 21043	PROJECT <b>HERITAGE WOODS</b> SECTION 2, AREA 1 LOTS 79 THRU 122
DEVELOPER SECURITY DEVELOPMENT CORP 8450 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD 21043	LOCATION TAX MAP 42 PARCELS 77 & 371 ELECTION DISTRICT NO 6 HOWARD COUNTY MARYLAND
DES. JKT	DRN. KAM
DATE APRIL 23, 1985	PROJECT NO 0582 RSD
SCALE 1"=50'	DRAWING 5 OF 6

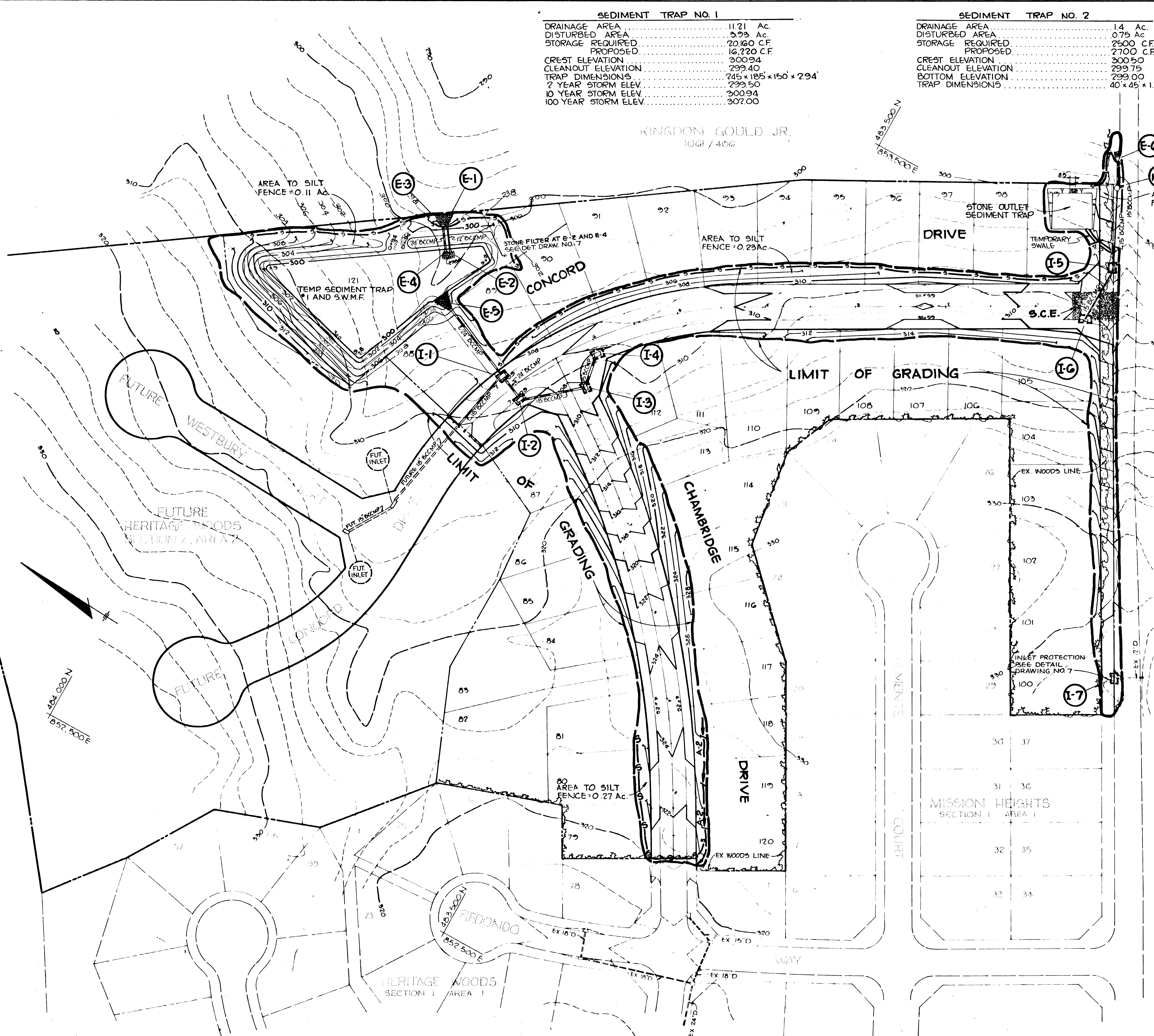
SEDIMENT TRAP NO. 1	
DRAINAGE AREA	1121 Ac.
DISTURBED AREA	5.23 Ac.
STORAGE REQUIRED	20,160 C.F.
PROPOSED	16,220 C.F.
CREST ELEVATION	300.94
CLEANOUT ELEVATION	299.40
TRAP DIMENSIONS	245' x 185' x 150' x 294'
2 YEAR STORM ELEV.	299.50
10 YEAR STORM ELEV.	300.94
100 YEAR STORM ELEV.	302.00

SEDIMENT TRAP NO. 2	
DRAINAGE AREA	1.4 Ac.
DISTURBED AREA	0.75 Ac.
STORAGE REQUIRED	2500 C.F.
PROPOSED	2700 C.F.
CREST ELEVATION	300.50
CLEANOUT ELEVATION	299.75
BOTTOM ELEVATION	299.00
TRAP DIMENSIONS	40' x 45' x 15'

SEQUENCE OF CONSTRUCTION

- DAY 1 - DAY 1
- DAY 2 - DAY 3
- DAY 4 - DAY 10
- DAY 10 - DAY 17
- DAY 17 - DAY 18
- DAY 18 - DAY 21
- DAY 22 - DAY 28
- DAY 29 - DAY 30
- DAY 30 - DAY 34
- DAY 34 - DAY 38
- DAY 38 - DAY 100

INSTALL A LEAKING TRENCH  
 CLEAR AND GRUB AREA FOR AND INSTALL STABILIZED CONSTRUCTION ENTRANCE (SEE).  
 CLEAR AND GRUB REMAINING AREAS FOR SEDIMENT CONTROL DEVICE INSTALLATION.  
 INSTALL SEDIMENT TRAPS AND STORM WATER MANAGEMENT FACILITY AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.  
 INSTALL REMAINDER OF SEDIMENT CONTROL DEVICES AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.  
 CLEAR AND GRUB REMAINDER OF SITE.  
 GRADE SITE.  
 INSTALL UTILITIES (WATER, SEWER & STORM DRAINS) BRICKING ALL INLETS AS PER INLET PROTECTION DETAIL.  
 STABILIZE ALL SLOPES IN ACCORDANCE WITH PERMANENT SEEDING NOTES.  
 COMPLETE ALL ROADWAY CONSTRUCTION AND STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.  
 UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES AND CONVERT SEDIMENT TRAP TO A PERMANENT STORM WATER MANAGEMENT FACILITY AS FOLLOWS:  
 1. DEWATER BASIN BY PUMPING INTO A SEDIMENT POND OR WELL STABILIZED VEGATED AREA AS DIRECTED BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.  
 2. REMOVE SILT AND STONE FILTER AND RESTORE POND TO ITS ORIGINAL DIMENSIONS, STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES.  
 3. REMOVE SILT SHALL BE SPREAD ACROSS THE PERIMETER OF LOTS 88 AND 89 AND THE AREA WEST OF LOT 88 AND SEEDED IN ACCORDANCE WITH PERMANENT SEEDING NOTES.



MISSION ROAD

BY THE DEVELOPER:  
 "I HEREBY 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."  
*James R. Moxley, Jr.* 4-30-85  
 DEVELOPER: JAMES R. MOXLEY, JR. DATE

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."  
*James K. Tracy* 4-30-85  
 JAMES K. TRACY, P.E. DATE

REVIEWED FOR: HOWARD COUNTY S.C.D.  
 AND MEETS TECHNICAL REQUIREMENTS  
*James M. Nelson* 8-19-85  
 U. S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
*Stephen L. Huber* 8/1/85  
 HOWARD S.C.D. DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*Arthur W. Wharton* 8-22-85  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*William D. Reilly* 8-22-85  
 CHIEF, BUREAU OF ENGINEERING DATE

NO	DATE	REVISION

TRACY, SCHULTE & ASSOCIATES INC.  
 planning • architecture • engineering  
 8450 Baltimore National Pike • Suite 34 • Ellicott City, Maryland 21043 • (301) 465-6105

OWNER GREENBRIAR VENTURE 8450 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD 21043	PROJECT <b>HERITAGE WOODS</b> SECTION 2, AREA 1 LOTS 79 THRU 122 LOCATION TAX MAP 42 PARCELS 77 & 371 ELECTION DISTRICT N <sup>o</sup> 6 HOWARD COUNTY MARYLAND
DEVELOPER SECURITY DEVELOPMENT CORP 8450 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD 21043	TITLE <b>STORM WATER MANAGEMENT, GRADING, AND SEDIMENT CONTROL PLAN</b>
DES. JKT	DRN. KAM
DATE APRIL 29, 1985	PROJECT NO 0582 RSD
SCALE 1"=50'	DRAWING 6 OF 8

- 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 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 RANGE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION 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 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.
  - 7) **SITE ANALYSIS:**

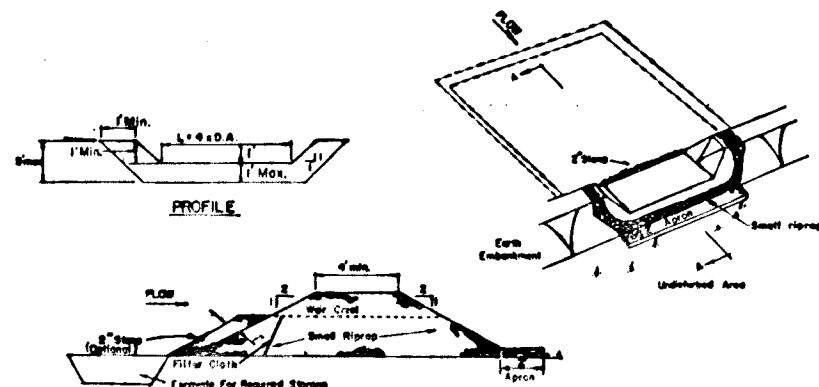
TOTAL AREA OF SITE	973 ACRES
AREA DISTURBED	469 ACRES
AREA TO BE ROOFED OR PAVED	399 ACRES
AREA TO BE VEGETATIVELY STABILIZED	30 ACRES
TOTAL CUT	5102 CU. YDS.
TOTAL FILL	5025 CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION	N/A
  - 8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
  - 9) ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DEP SEDIMENT CONTROL INSPECTOR.
  - 10) ALL SEDIMENT TRAPS 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.

**PERMANENT SEEDING NOTES**

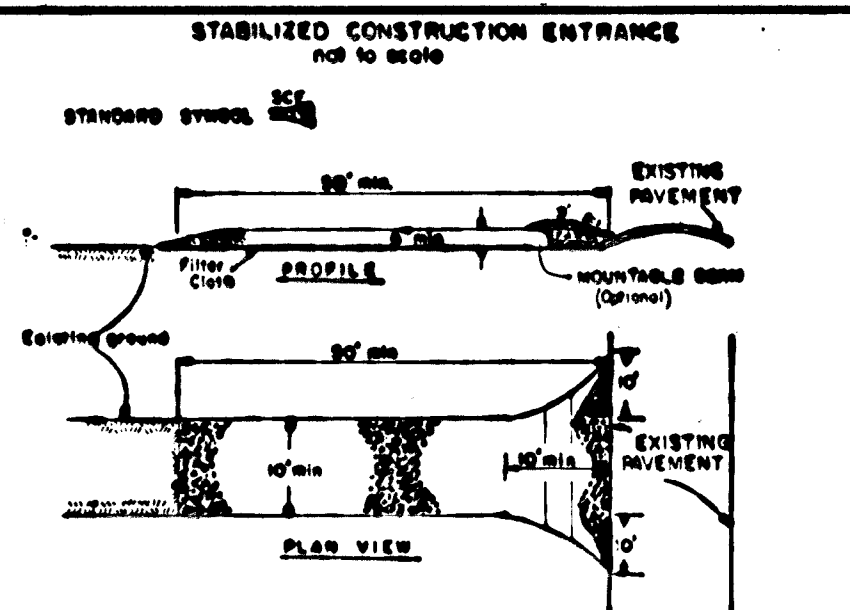
- SEEDBED PREPARATION:** LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.
- SOIL AMENDMENTS:** IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
- 1) **PREFERRED** - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 lbs/1000 sq ft) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 lbs/1000 sq ft) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 URAPFORM 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 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 MULCH.
- 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 SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESSEEDINGS.

**TEMPORARY SEEDING NOTES**

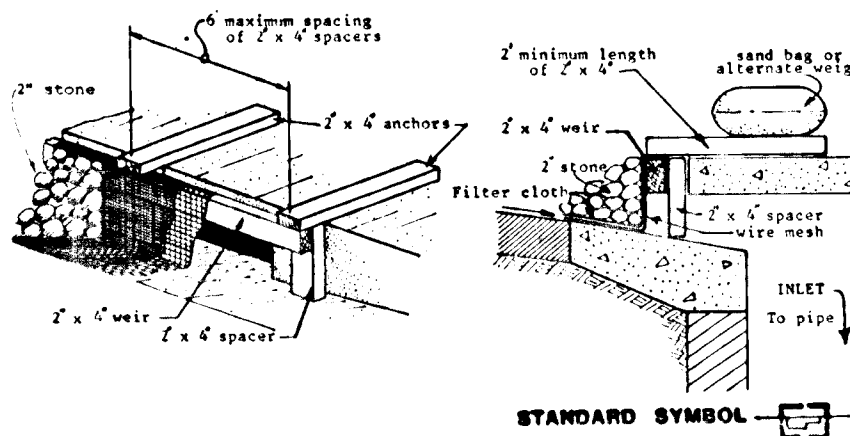
- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
- SEEDBED PREPARATION:** LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.
- SOIL AMENDMENTS:** APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 lbs/1000 sq ft)
- SEEDING:** FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 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 (.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 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 RATES AND METHODS NOT COVERED.



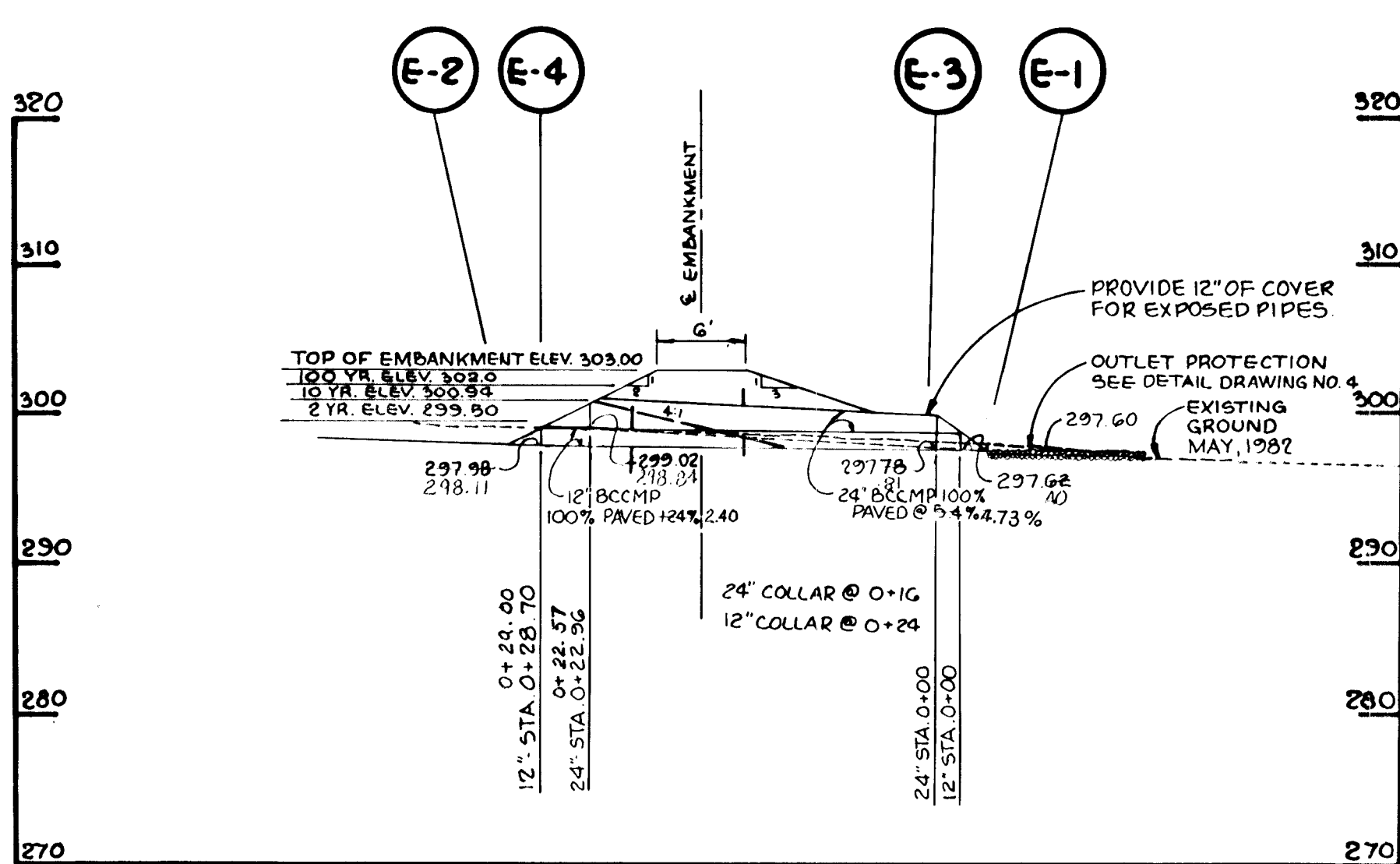
**STONE OUTLET SEDIMENT TRAP**  
NO SCALE



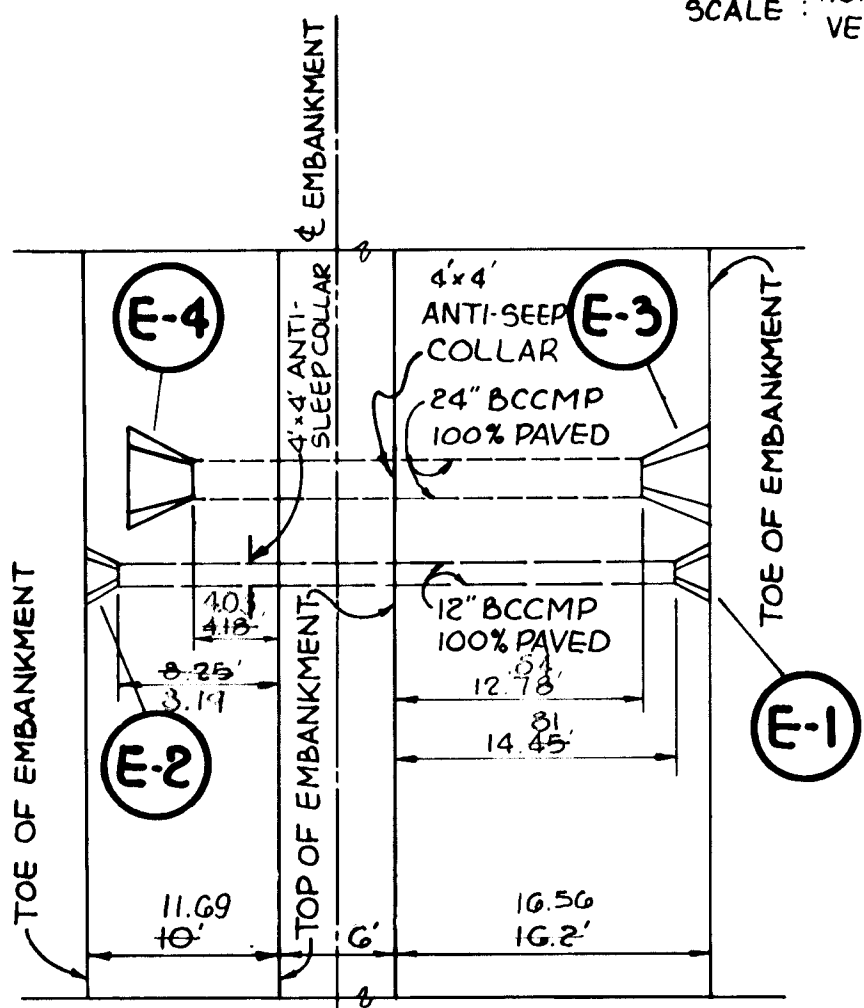
**STABILIZED CONSTRUCTION ENTRANCE**  
NO SCALE



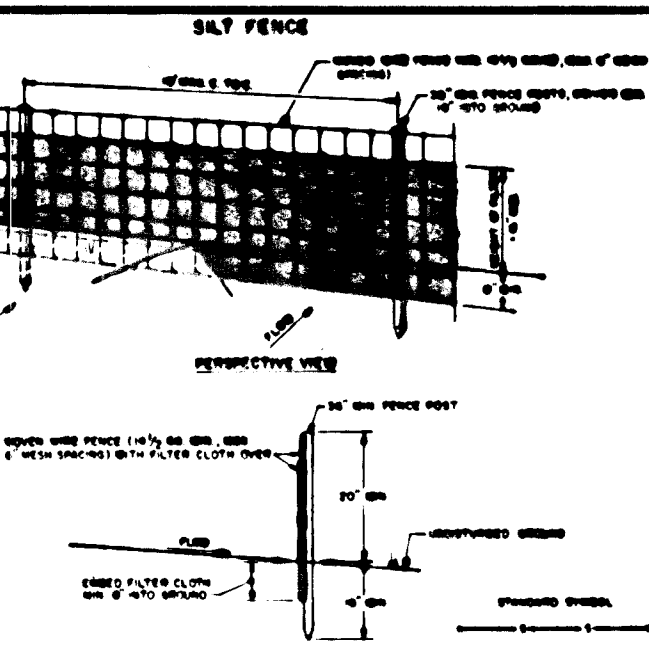
**INLET PROTECTION DETAIL**  
NO SCALE



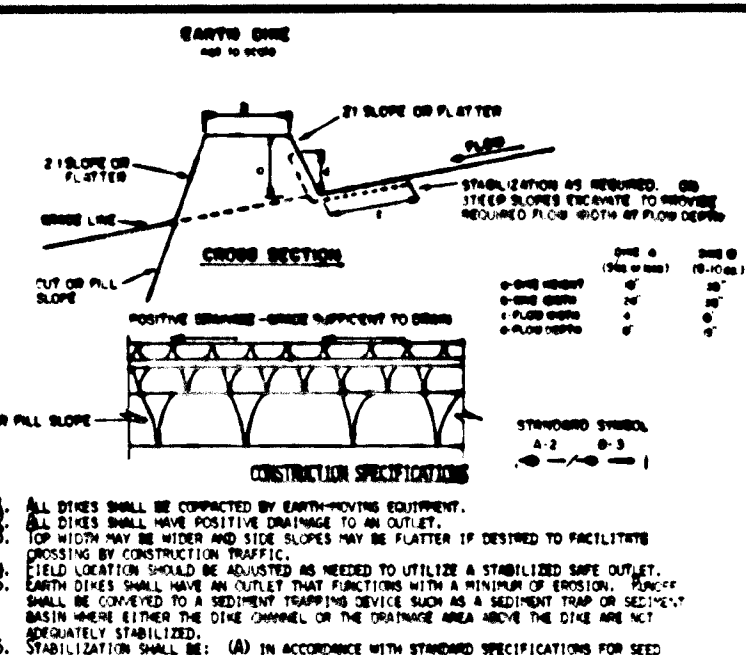
**PROFILE**  
SCALE: HORIZ. 1"=10' VERT. 1"=40'



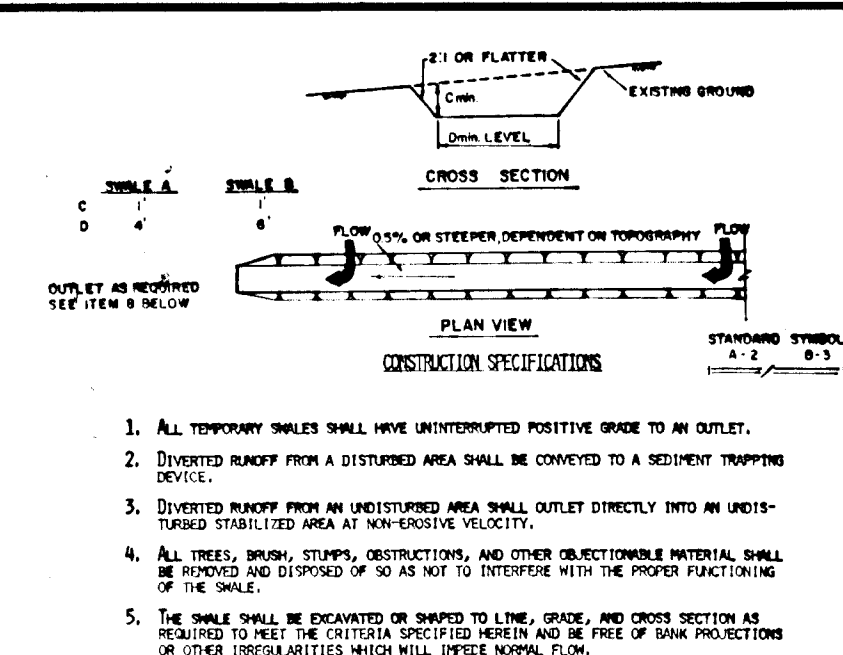
**PLAN-OUTLET STRUCTURE**  
SCALE: 1"=10'



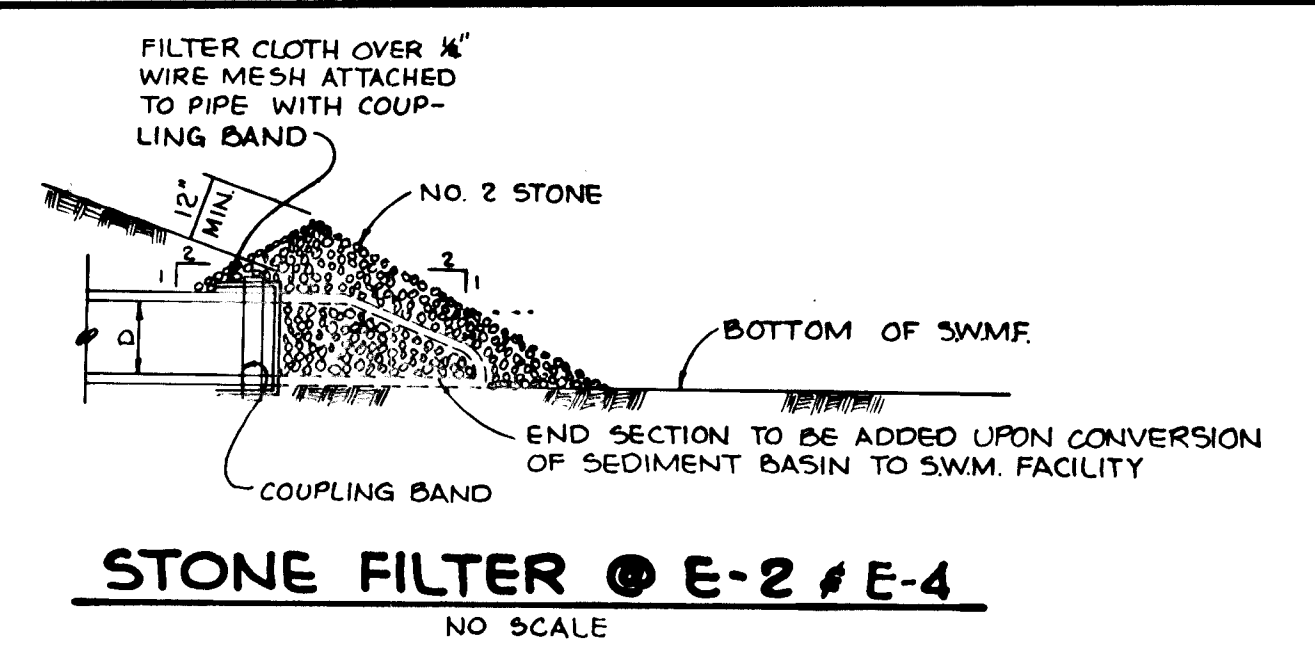
**SILT FENCE**  
NO SCALE



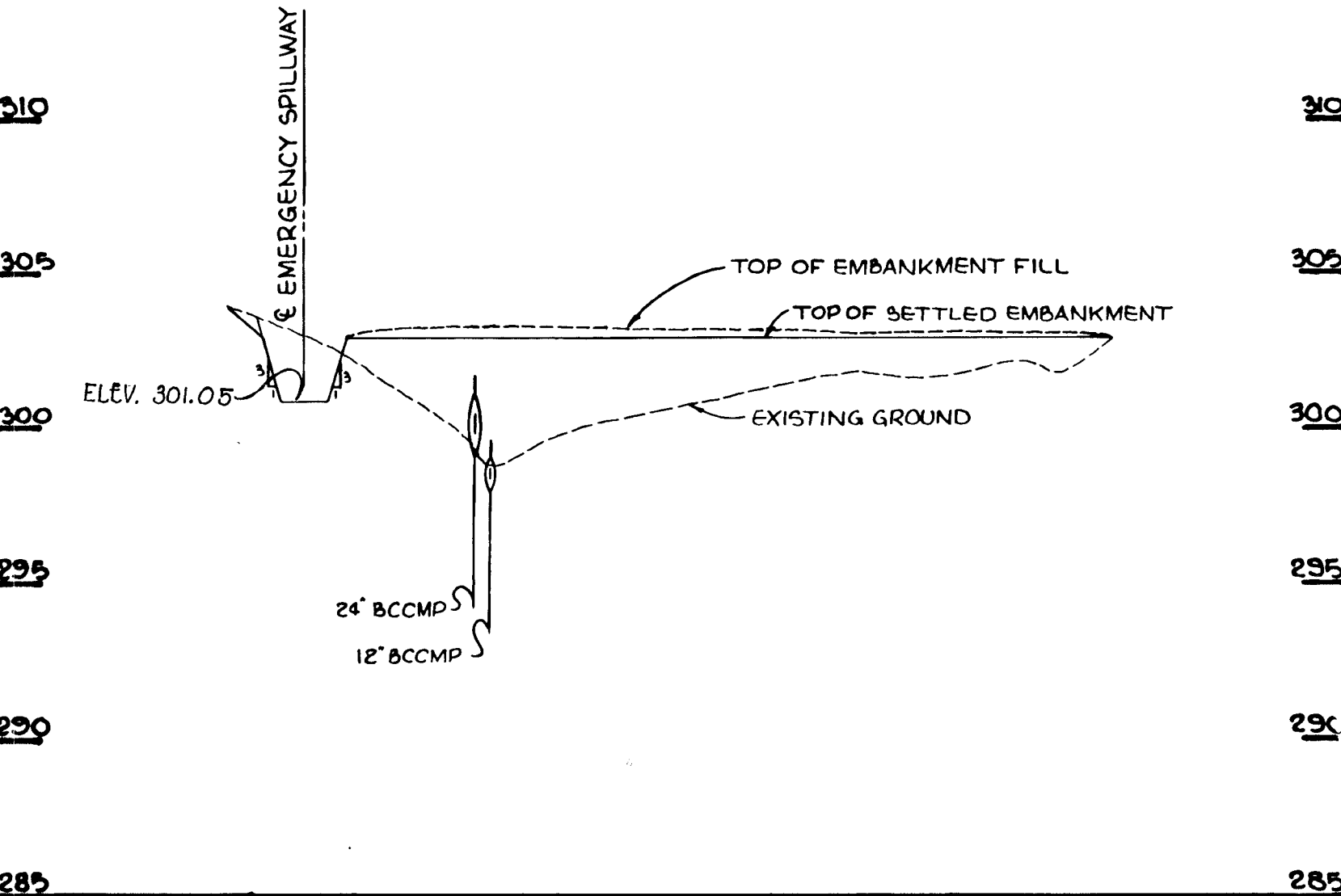
**EARTH DIKE**  
NO SCALE



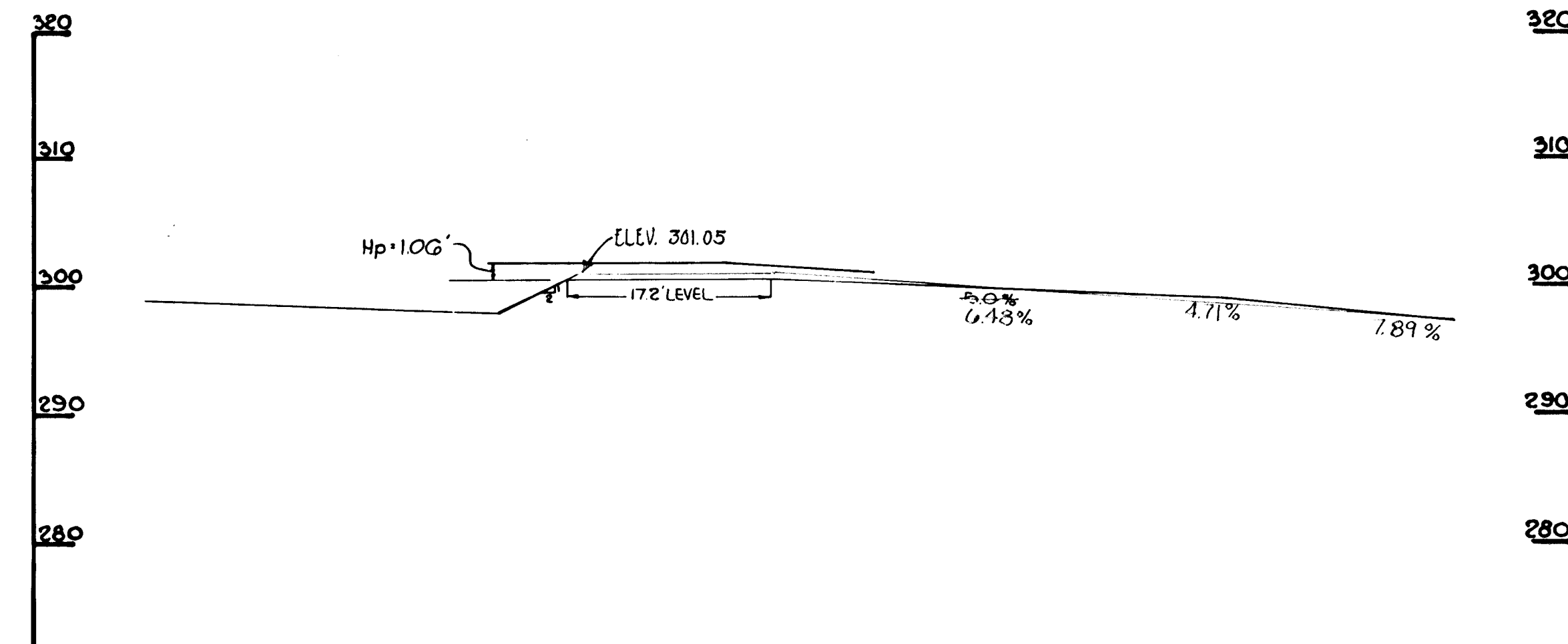
**TEMPORARY SWALE**  
NO SCALE



**STONE FILTER**  
NO SCALE



**EMBANKMENT PROFILE**  
SCALE: HORIZ. 1"=50' VERT. 1"=5'



**EMERGENCY SPILLWAY PROFILE**  
SCALE: HORIZ. 1"=10' VERT. 1"=10'

BY THE DEVELOPER:  
"I HEREBY 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."  
*James R. Moxley, Jr.*  
DEVELOPER: JAMES R. MOXLEY, JR. DATE: 4-20-85

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."  
*James K. Tracy, P.E.*  
JAMES K. TRACY, P.E. 9566 DATE: 4-20-85

REVIEWED FOR: HOWARD S.C.D. NAME: DATE: 8-19-85  
AND MEETS TECHNICAL REQUIREMENTS  
*James M. Helms*  
U. S. SOIL CONSERVATION SERVICE DATE: 8-19-85

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
*Stephen L. Kuber*  
HOWARD S.C.D. DATE: 8/19/85

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
COUNTY HEALTH OFFICER DATE: 8-22-85

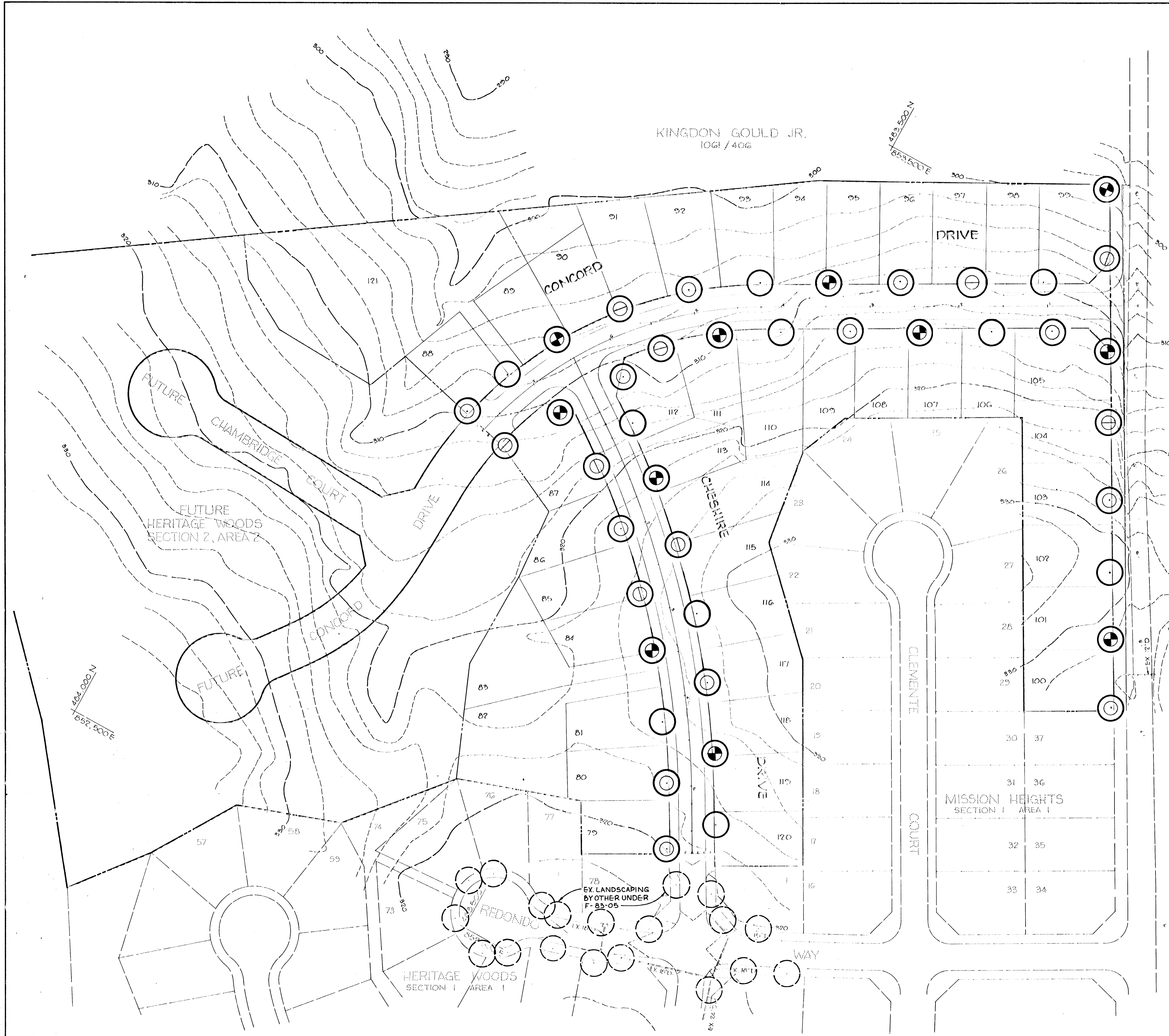
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*John M. Moore, Jr.*  
CHIEF, BUREAU OF ENGINEERING DATE: 8-22-85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*John M. Moore, Jr.*  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE: 8-27-85

NO	DATE	REVISION

TRACY, SCHULTE & ASSOCIATES INC.  
planning • architecture • engineering  
8450 Baltimore National Pike • Suite 34 • Ellicott City, Maryland 21043 • (301) 465-6105  
*James R. Moxley, Jr.*

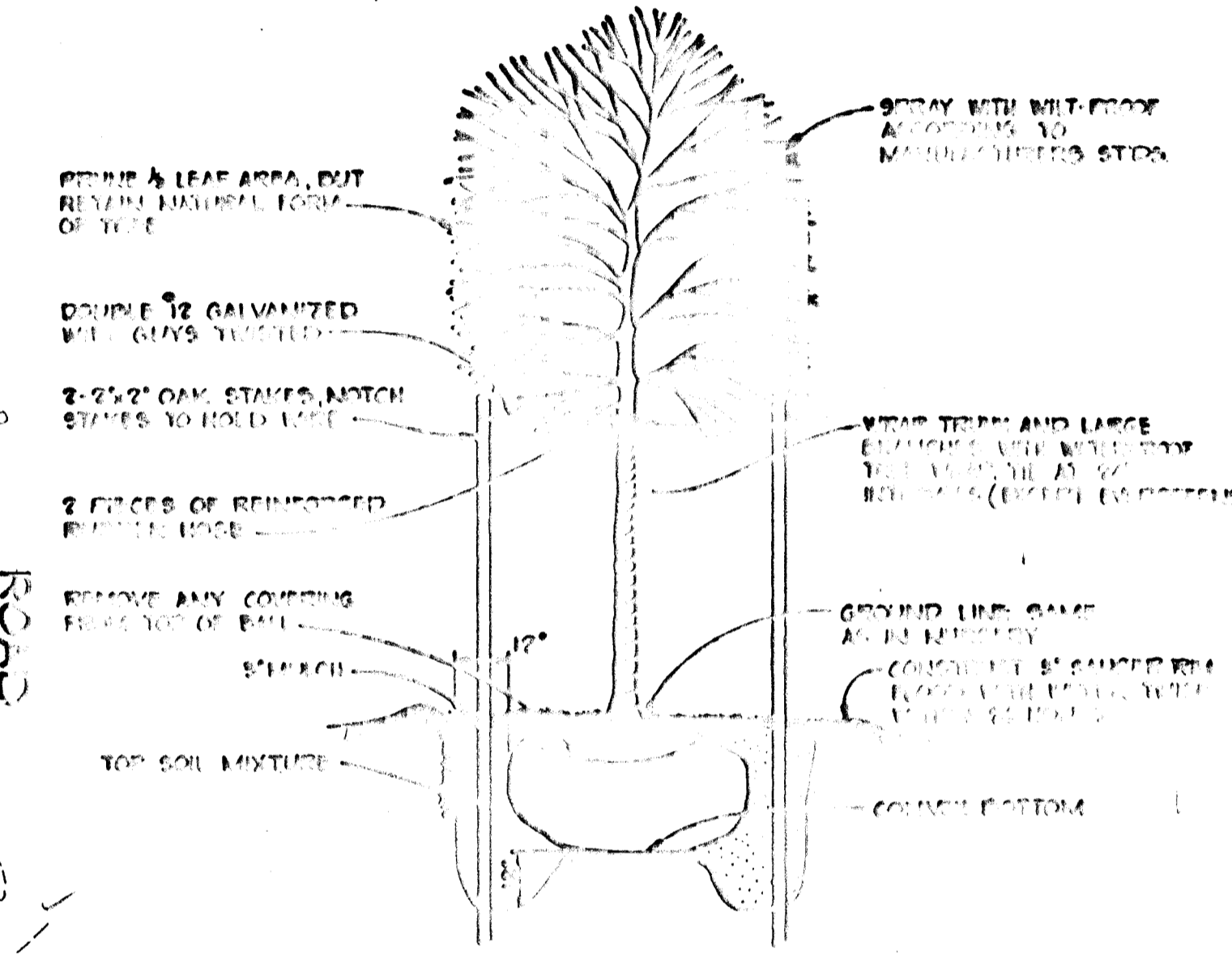
OWNER: GREENBRIAR VENTURE, 8450 BALTIMORE NATIONAL PIKE, ELICOTT CITY, MD. 21043  
PROJECT: HERITAGE WOODS, SECTION 2 AREA 1, LOTS 79 THRU 127, LOCATION TAX MAP 42, RESUBDIVISION OF PARCELS 77 & 371, ELECTION DISTRICT N# 6 HOWARD COUNTY MARYLAND  
DEVELOPER: SECURITY DEVELOPMENT CORP, 8450 BALTIMORE NATIONAL PIKE, ELICOTT CITY, MD. 21043  
TITLE: SEDIMENT CONTROL DETAILS AND NOTES  
DATE: APRIL 29, 1985 PROJECT NO: 0582 R50  
DES: SJB DRN: LRC SCALE: AS SHOWN DRAWING 7 OF 8



PLANT LIST			
SYMBOL	QUANTITY	NAME	REMARKS
	11	ACER RUBRUM Red Maple	2 1/2 Min Cal. B&B Full Head
	10	QUERCUS PALUSTRIS Pin Oak	
	11	ACER SACCHARUM Sugar Maple	
	10	QUERCUS BOREALIS Red Oak	
TOTAL	42		

MISSION ROAD

€ LENGTH OF PROPOSED ROADS = 1350 LF ÷ 40 = 33.8  
 LENGTH OF MISSION ROAD GOLF\* + 80 = 7.6  
 TOTAL REQUIRED 41.4  
 TOTAL PROVIDED 42



APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*Shull M. Murchman* 8-22-85  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*W. E. Ray* 8-22-85  
 CHIEF, BUREAU OF ENGINEERING DATE

NO. DATE REVISION

TRACY, SCHULTE & ASSOCIATES INC.  
 planning • architecture • engineering  
 8450 Baltimore National Pike • Suite 34 • Ellicott City, Maryland 21043 • (301) 465 6105

OWNER: GREENBRIAR VENTURE  
 8450 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MD. 21043

DEVELOPER: SECURITY DEVELOPMENT CORP.  
 8450 BALTIMORE NATIONAL PIKE  
 ELLICOTT CITY, MD. 21043

PROJECT: HERITAGE WOODS  
 SECTION 2, AREA 1, LOTS 73 THRU 122  
 LOCATION: TAX MAP 42  
 PARCELS 77 & 371  
 ELECTION DISTRICT N<sup>o</sup> 6 HOWARD COUNTY MARYLAND

TITLE: STREET TREE PLAN

DATE: APRIL 25, 1985 PROJECT NO: 0582 RSD  
 SCALE: 1"=50' DRAWING 8 OF 8

D.S. JKT DRN KAM

3/9/88

F-85-149 AUGUST 8, 1985