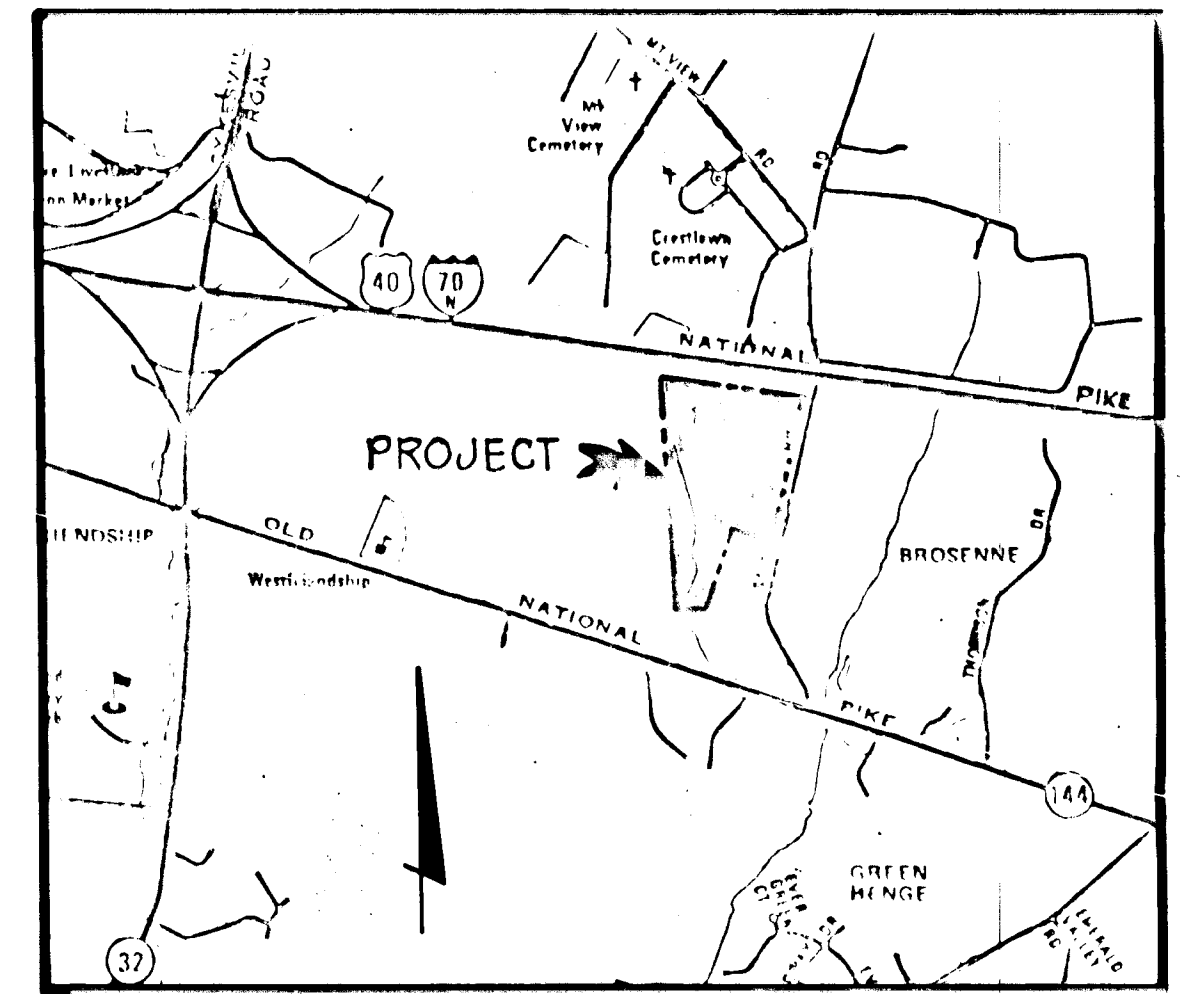


SANDY HILL ESTATES

3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND



VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
2. 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.
3. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER. A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
4. CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES AT LEAST THREE DAYS BEFORE STARTING WORK SHOWN ON THIS/THESE DRAWINGS:
 - BELL TELEPHONE SYSTEM 363-3649
 - LONG DISTANCE CABLE DIVISION 393-3553 or 3554
 - BALTO. GAS AND ELECTRIC COMPANY 539-8000 Ext. 691
5. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
6. ALL STREET CURB RETURNS SHALL HAVE 25.0' RADII UNLESS OTHERWISE NOTED.
7. STORM DRAIN TRENCHES WITHIN ROAD RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
8. INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1971 EDITION.
9. DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOC. OF STATE HIGHWAY OFFICIAL STANDARDS:
 - ALL 50' R/W's 30 M.P.H.
10. ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM 1929.
11. ALL FILL AREAS TO BE COMPACTED TO A MINIMUM 95% COMPACTION.
12. ALL EXCESS EXCAVATION TO BE TAKEN TO A SITE APPROVED BY THE SOIL CONSERVATION SERVICE OF HOWARD COUNTY, MARYLAND.

INDEX OF DRAWINGS

Sheet No.	Description
1	Cover Sheet - Road Construction Drawings
2	Plan and Profile - Wood Stream Court
3	Details and Storm Drain Profile
4	Grading and Sediment Control Plan
5	Sediment Control Notes and Details
6	Drainage Area Map

APPROVED: HOWARD COUNTY, OFFICE OF PLANNING AND ZONING
Richard M. ... 12-17-79
Chief, Division of Land Development Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
W.P. ... 12-17-79
Chief, Bureau of Engineering Date

REVISIONS PER COUNTY COMMENTS

DATE	NO.	REVISION DESCRIPTION

OWNER: SANDY HILL PROPERTIES
6306 FRIENDSHIP COURT
BETHESDA, MARYLAND 20884

DEVELOPER: SANDY HILL PROPERTIES
6306 FRIENDSHIP COURT
BETHESDA, MARYLAND 20884

PROJECT: SANDY HILL ESTATES

AREA: 3 RD ELECTION DISTRICT
HOWARD COUNTY, MD.

TITLE: COVER SHEET, ROAD CONSTRUCTION PLAN

**TYDINGS
HEIM**
ASSOCIATES INC.

CONSULTING ENGINEERS - LAND & CONSTRUCTION SURVEYORS
8370 COURT AVENUE, ELLICOTT CITY, MD. 21043 465-0660

10-26-79
DATE

DESIGNED BY: C.R.C.
DRAWN BY: J.P.O.
PROJECT NO: 419
DATE: OCTOBER 1979
SCALE: AS SHOWN
DRAWING NO 1 OF 6

Charles R. ...
PROFESSIONAL ENGR. NO. 7803

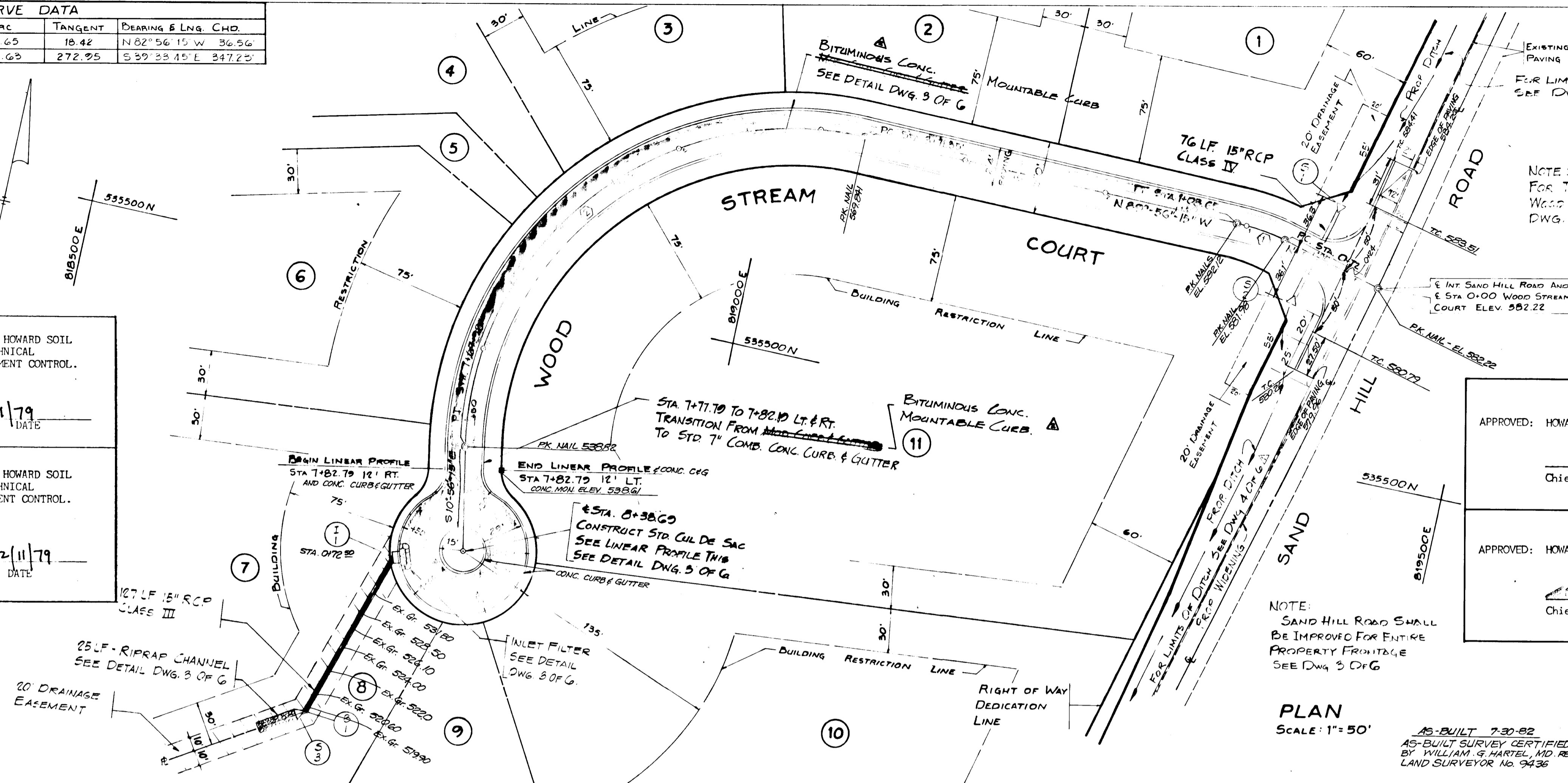
CURVE DATA					
CURVE	DELTA	RADIUS	ARC	TANGENT	DEARING & LING. CHD.
# 1	14°00'00"	150.00	36.65	18.42	N 82°56'15" W 36.56
# 2	10°00'00"	225.00	39.63	272.95	S 89°35'45" E 347.23

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

N. Helms 12/11/79
 SIGNATURE: U.S. SOIL CONSERVATION SERVICE DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

Robert W. Ziehm 12/11/79
 SIGNATURE: HOWARD S.C.D. DATE



APPROVED: HOWARD COUNTY, OFFICE OF PLANNING AND ZONING
[Signature]
 Chief, Division of Land Development Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 12-17-79
 Chief, Bureau of Engineering Date

1-22-80	REV. MOD. CAG TO BITUM. MOUNTABLE CURB
1-20-79	REVISED PER COUNTY COMMENTS
DATE NO.	REVISION DESCRIPTION
OWNER	SANDY HILL PROPERTIES 6306 FRIENDSHIP COURT BETHESDA, MARYLAND 20084
DEVELOPER	SANDY HILL PROPERTIES 6306 FRIENDSHIP COURT BETHESDA, MARYLAND 20084
PROJECT	SANDY HILL ESTATES
AREA	ELECTION DISTRICT No 3 HOWARD COUNTY, MARYLAND
TITLE	ROAD PLAN AND PROFILE
TYDINGS HEIM ASSOCIATES INC.	
CONSULTING ENGINEERS LAND & CONSTRUCTION SURVEYORS 8370 COURT AVENUE, ELLICOTT CITY, MD 21043 465-0660	
1-26-79	DATE
DESIGNED BY:	JPO
PROJECT NO:	419
DATE:	15 OCTOBER 79
SCALE:	AS SHOWN
DRAWING NO.	2 OF 2

STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	REMARKS
1	END SECTION	0+88.24	579.46	579.46		FOR 15\"/>

PLAN SCALE: 1" = 50'
 AS-BUILT 7-30-82
 AS-BUILT SURVEY CERTIFIED BY WILLIAM G. MARTEL, MD REG. LAND SURVEYOR NO. 9436

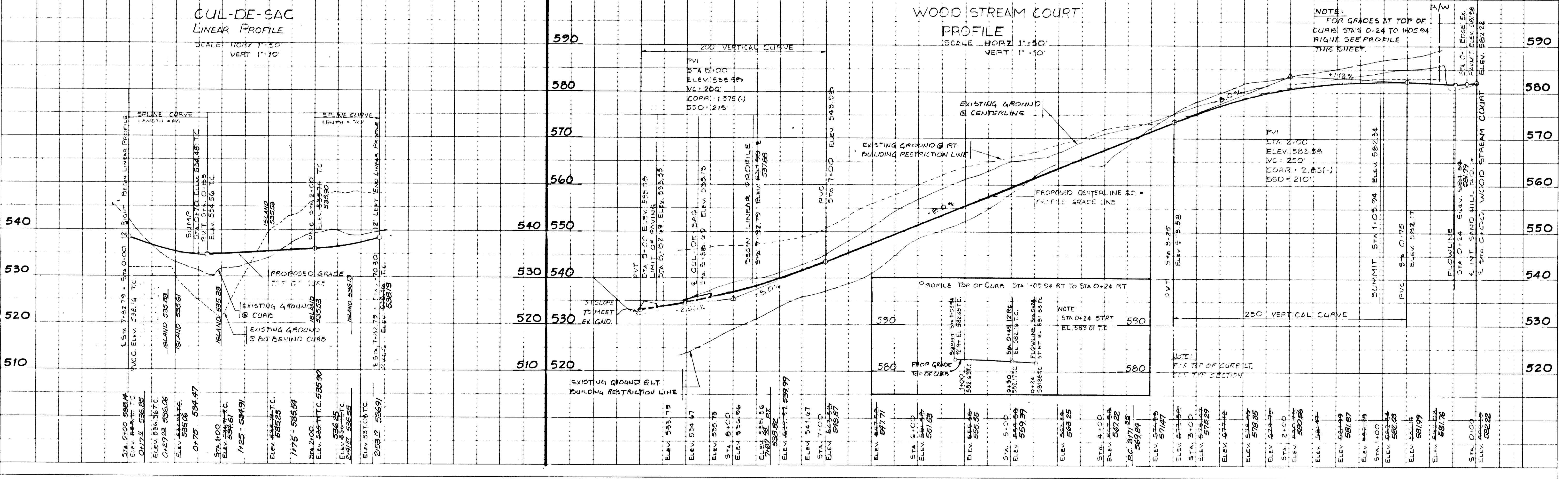
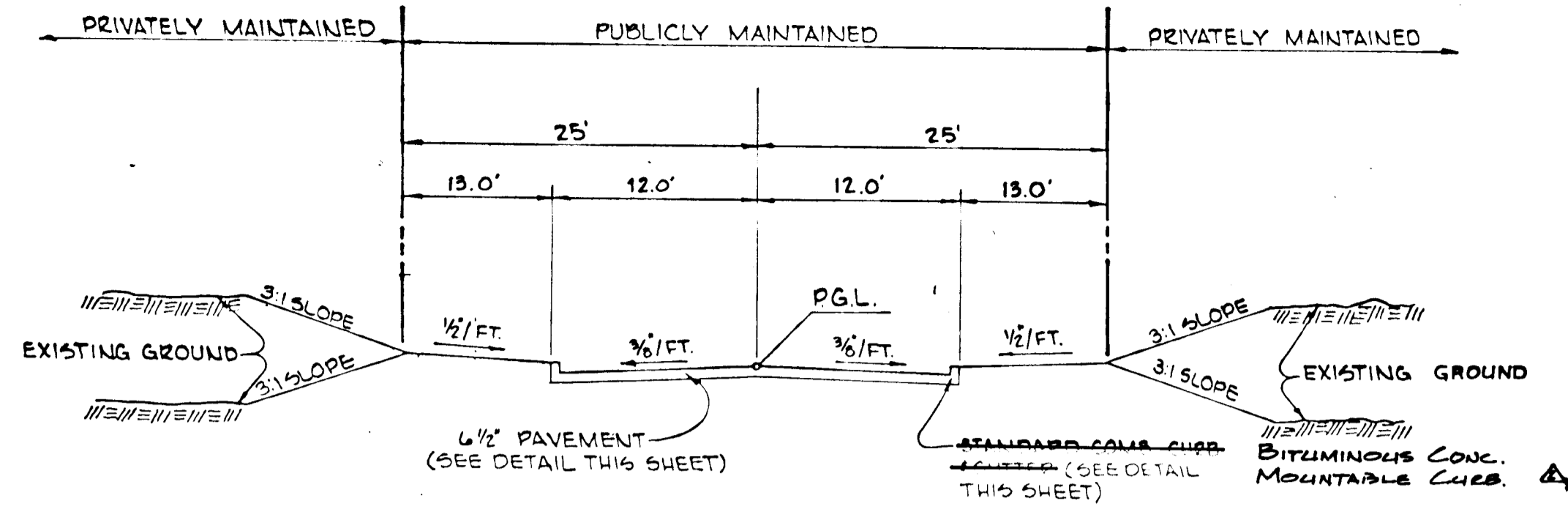


PLATE 1-SINGLE PLAN AND PROFILE FULL LINE

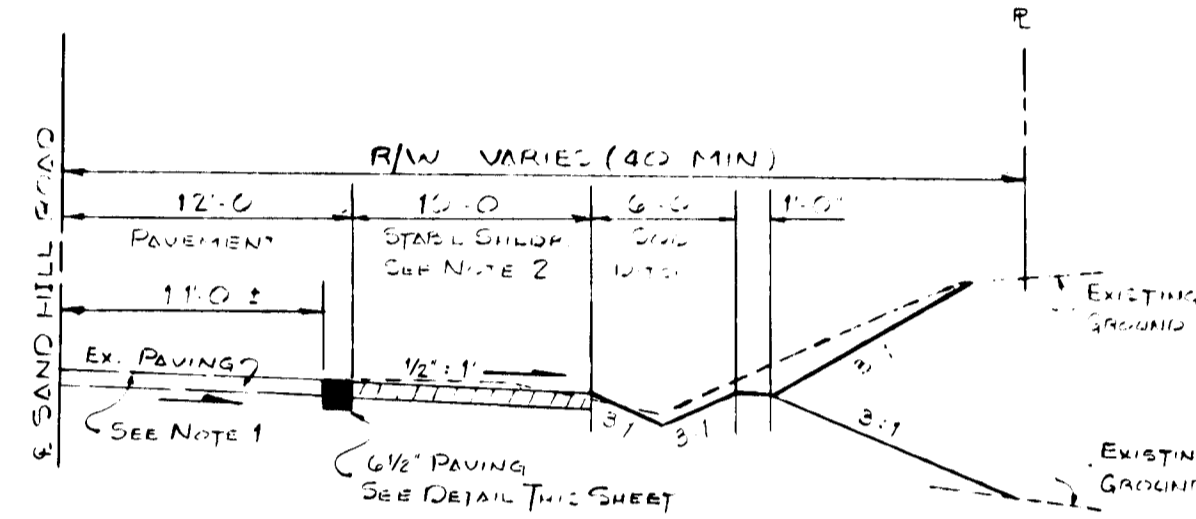
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F-20-69

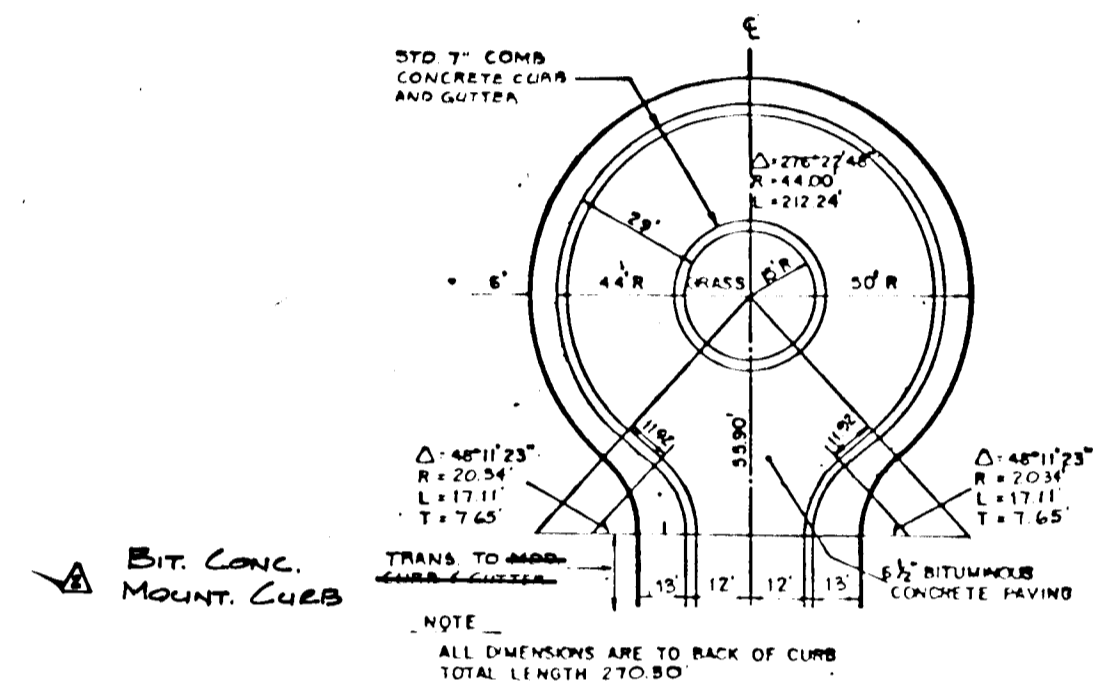


DESIGN SPEED 30 MPH
WOOD STREAM COURT
TYPICAL SECTION 50 R/W
NO SCALE

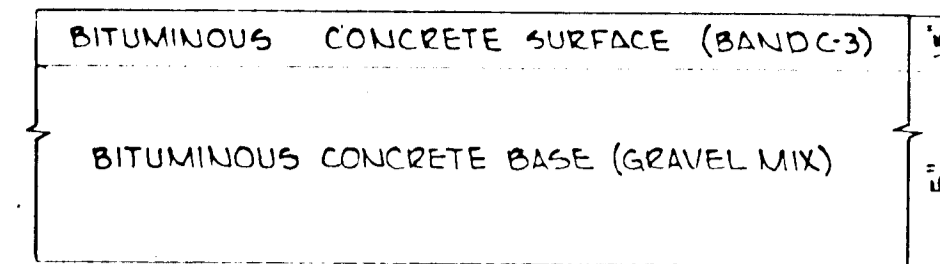
NOTES:
1. MATCH BEHIND OF EXISTING PAVEMENT ON 3/4\"/>



IMPROVEMENTS SAND HILL RD.
TYPICAL SECTION
NO SCALE



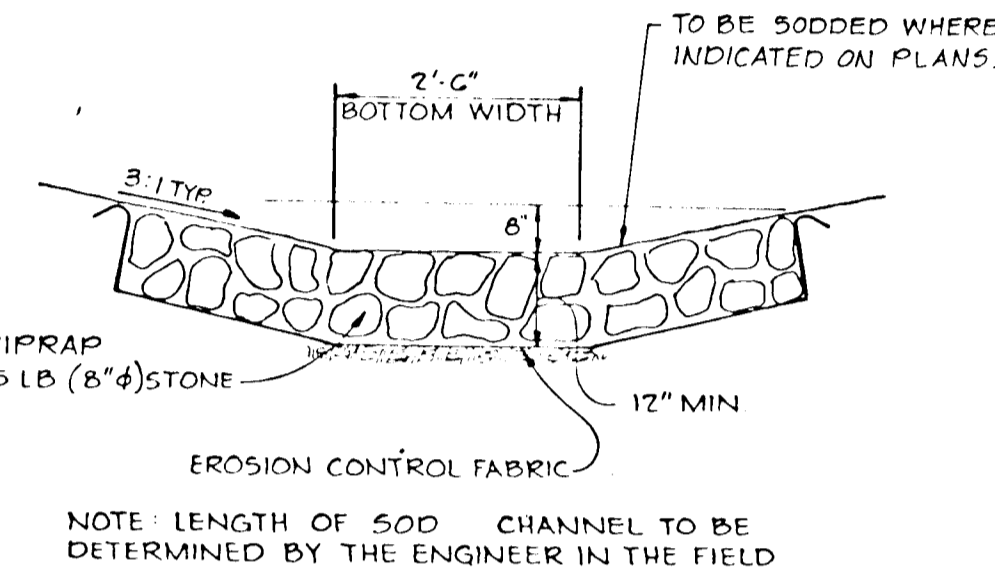
DETAIL
CUL DE SAC
WOOD STREAM COURT
NO SCALE



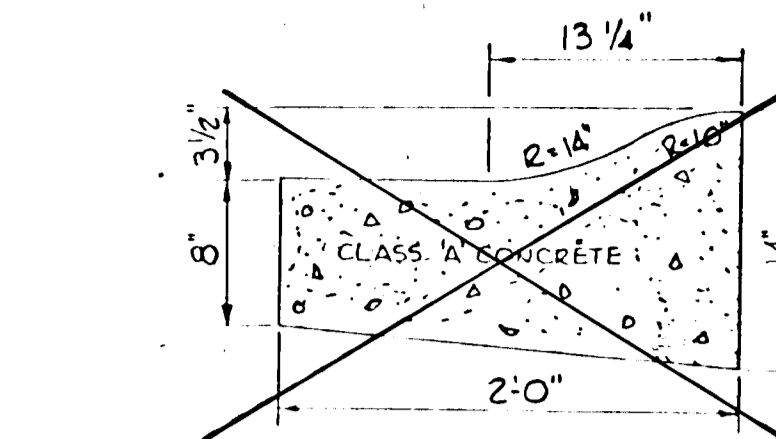
HOWARD COUNTY STANDARD (DRAWING DS, PAGE 60)
CLEANING & GRADING ARTICLE C-1
SUBGRADE ARTICLE C-2
BASE COURSE ARTICLE C-33
SURFACE COURSE ARTICLE C-31

6 1/2\"/>

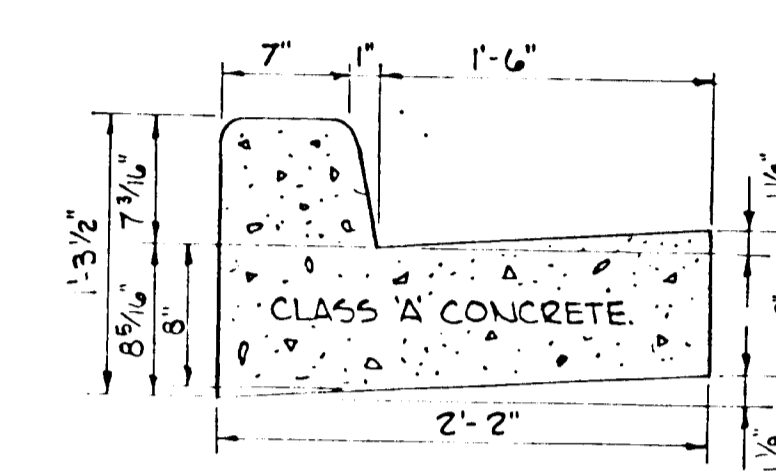
TYPICAL PAVING SECTION
SCALE: 1\"/>



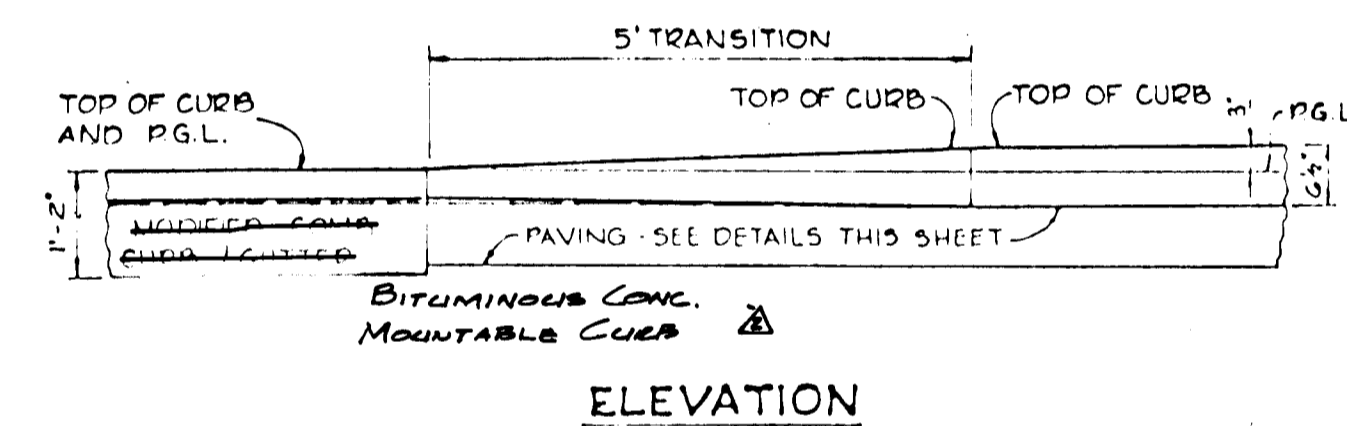
RIPRAP CHANNEL
NO SCALE



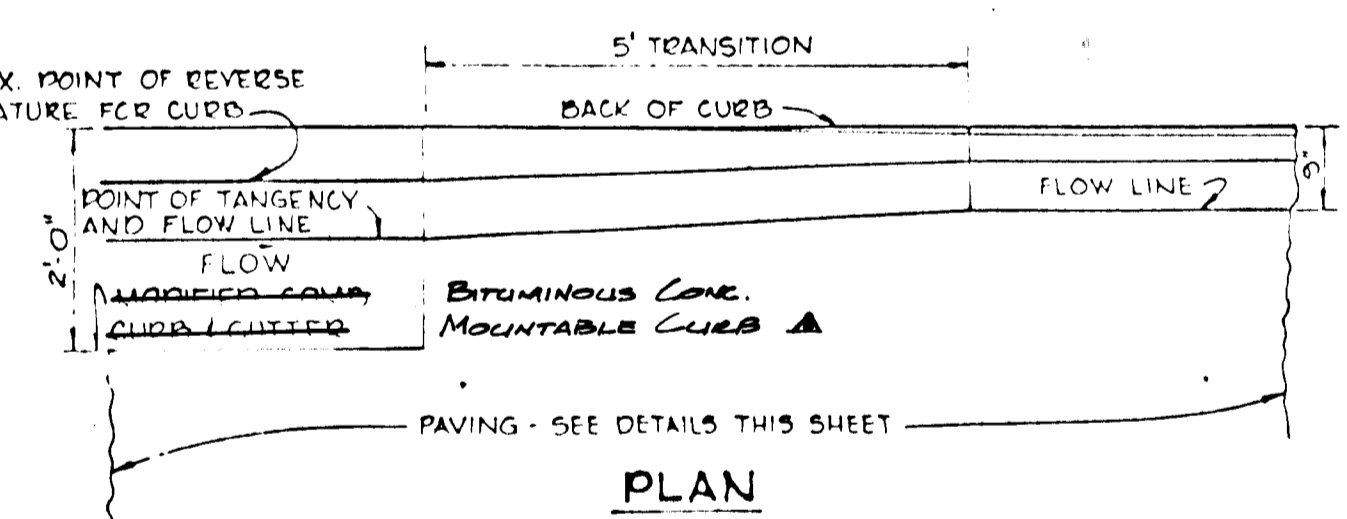
HOWARD COUNTY STANDARD (DRAWING D-38, PAGE 94)
MODIFIED COMB
CURB AND GUTTER
NO SCALE
BITUMINOUS CONC.
MOUNTABLE CURB



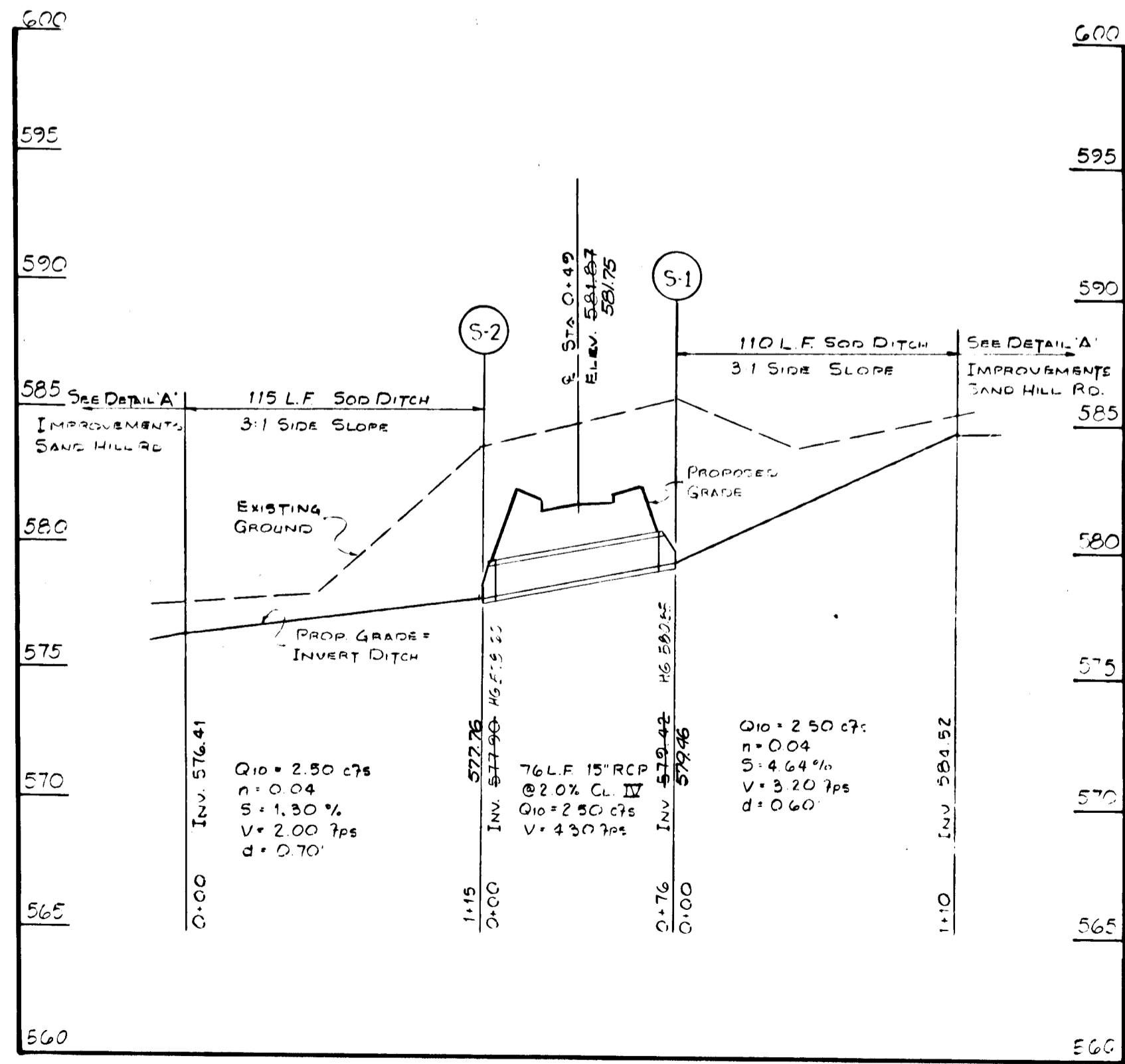
HOWARD COUNTY STANDARD (DRAWING D-40, PAGE 95)
STANDARD 7\"/>



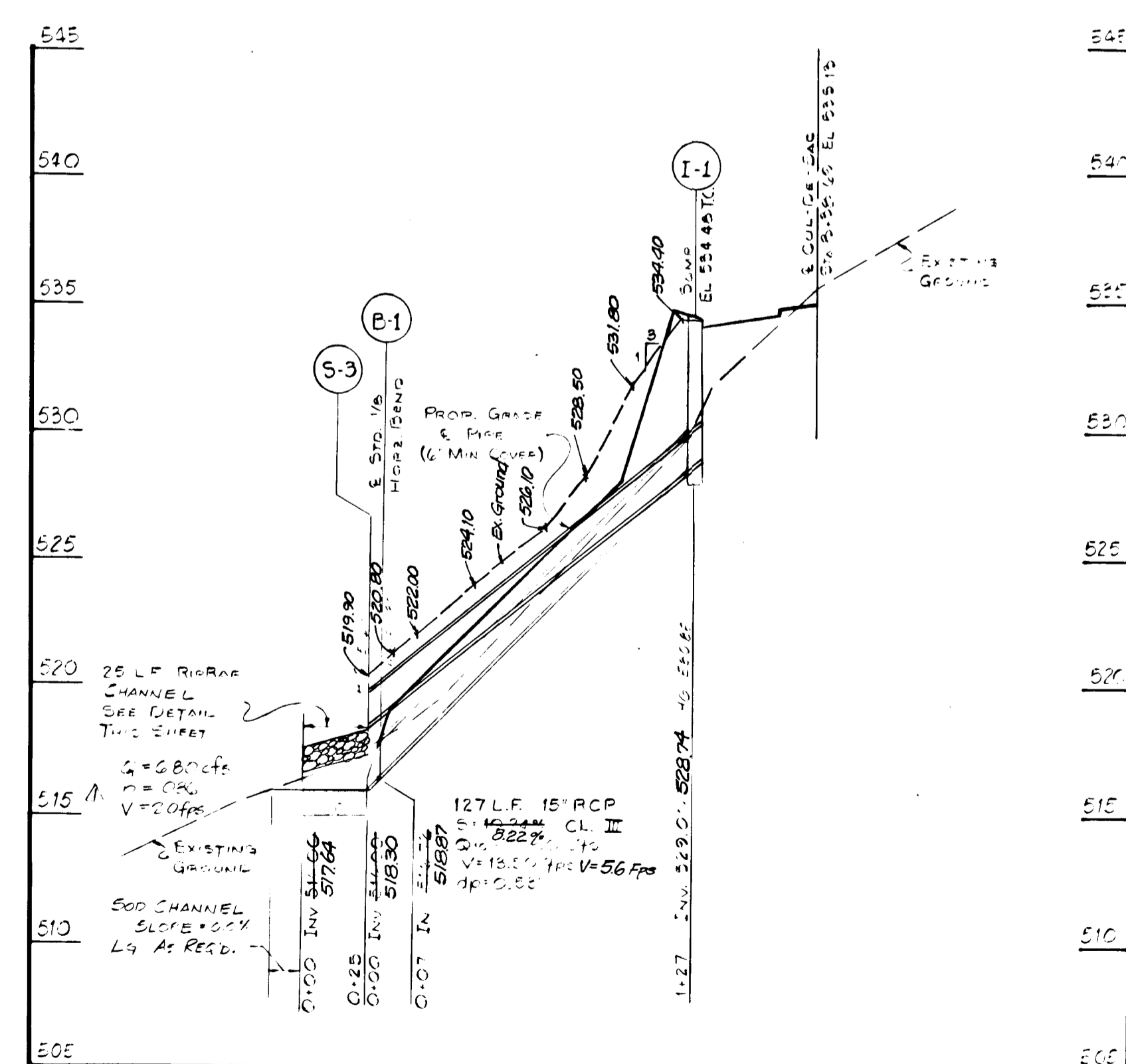
ELEVATION
PLAN
CURB TRANSITION DETAIL
NO SCALE



PLAN
SECTION
INLET FILTER
NO SCALE

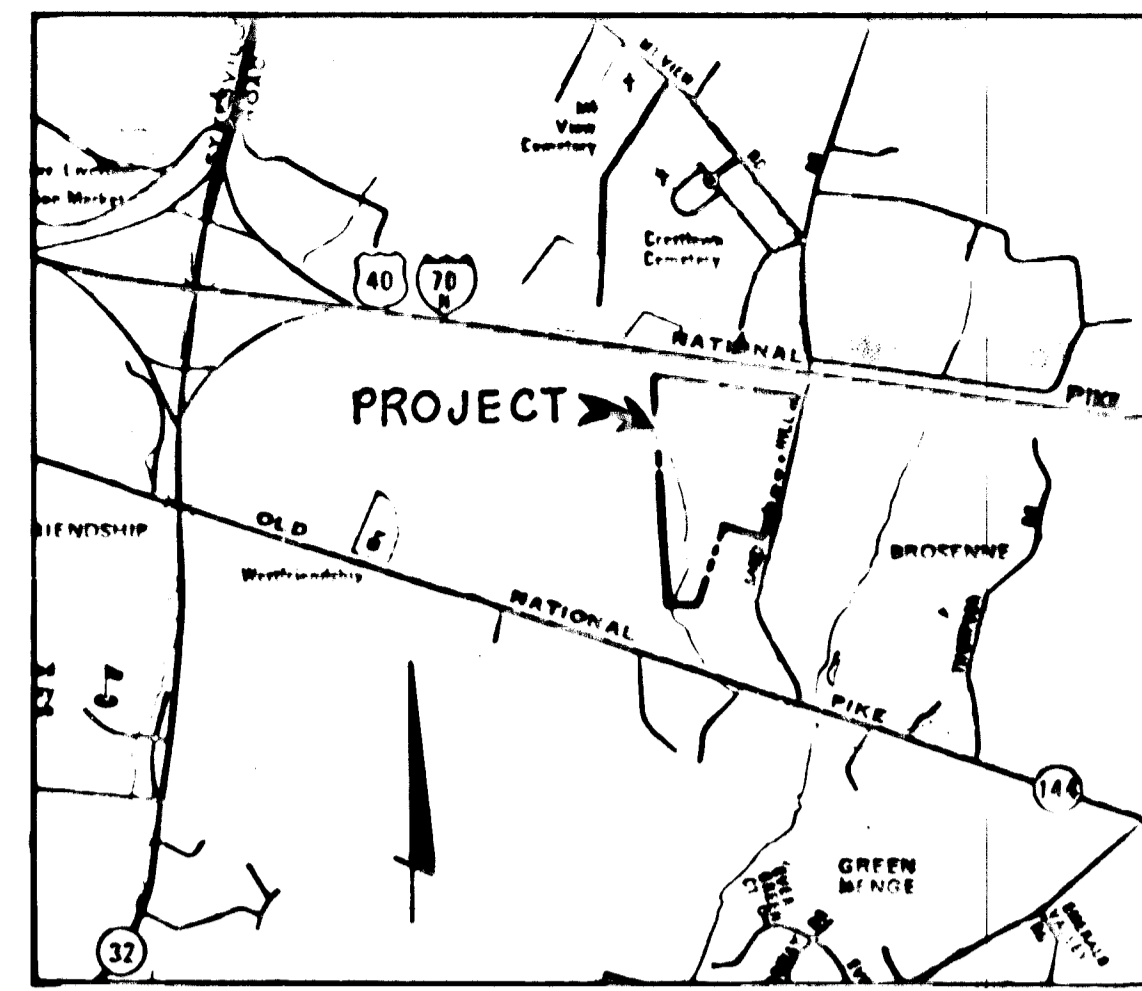


STORM DRAIN PROFILE
SCALE: HORIZ 1\"/>



1-22-80	Rev. Mod C&G to Bit. Conc. Mount. Curb
DATE NO.	REVISION DESCRIPTION
OWNER:	SANDY HILL PROPERTIES 6306 FRIENDSHIP COURT BETHESDA, MARYLAND 20084
DEVELOPER:	SANDY HILL PROPERTIES 6306 FRIENDSHIP COURT BETHESDA, MARYLAND 20084
PROJECT:	SANDY HILL ESTATES
AREA:	3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE:	DETAILS & STORM DRAIN PROFILES
TYDINGS HEIM ASSOCIATES INC. CONSULTING ENGINEERS - LAND & CONSTRUCTION SURVEYORS 8370 COURT AVENUE, ELLICOTT CITY, MD. 21043 465-0660	
10-26-77	DATE
DESIGNED BY: C.R.C.	
DRAWN BY: J.P.O.	
PROJECT NO: 419	
DATE: OCTOBER, 1977	
SCALE: AS SHOWN	
DRAWING NO 3 OF 6	
APPROVED: HOWARD COUNTY, OFFICE OF PLANNING AND ZONING <i>J. Hillman</i> Chief, Division of Land Development Date	
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>Wolfe</i> Chief, Bureau of Engineering Date	
THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL. <i>J. Hillman</i> 10-18-77 DATE U.S. SOIL CONSERVATION SERVICE	
THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL. <i>William T. Rame</i> 12-18-75 DATE HOWARD S.C.D.	

AS-BUILT 7-30-82
AS-BUILT SURVEY CERTIFIED BY
WILLIAM G. HARTZEL, MD RES
PROFESSIONAL ENGINEER NO.
9436



VICINITY MAP
SCALE 1" = 2000'

SEQUENCE OF CONSTRUCTION

1. OBTAIN A GRADING PERMIT.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
3. INSTALL SEDIMENT TRAP WITH STONE OUTLET STRUCTURE AND SEED PER TEMPORARY SEEDING NOTES.
4. INSTALL PERIMETER DIKES AND SEED PER TEMPORARY SEEDING NOTES.
5. PERFORM ROUGH GRADING OPERATION AND SEED PER TEMPORARY SEEDING NOTES.

NOTE: NO STORM DRAINS SHALL BE INSTALLED UNDER THIS PERMIT. ALL SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED UNTIL SUCH TIME AS ALL ROADWAY AND STORM DRAIN CONSTRUCTION HAS BEEN COMPLETED.

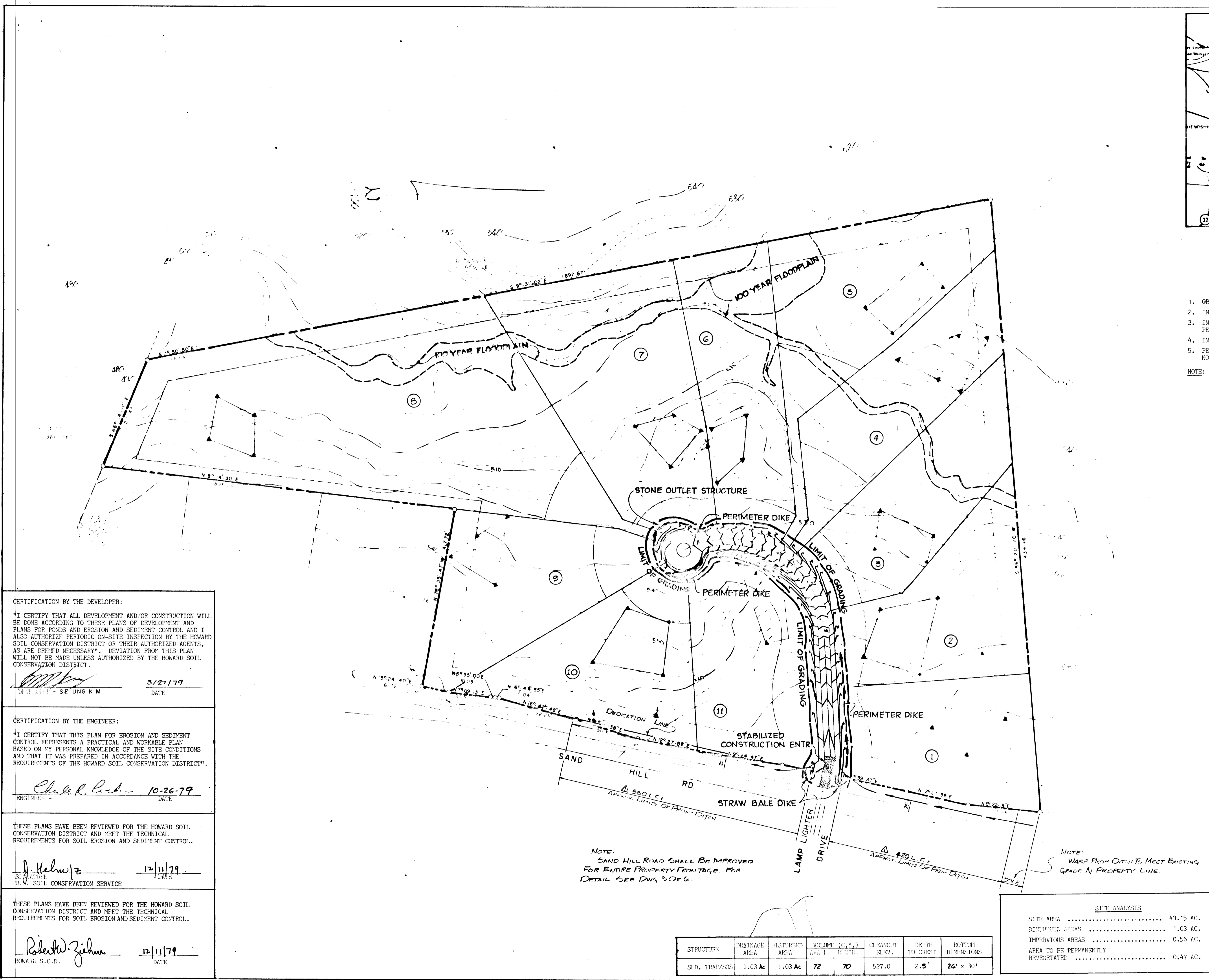
APPROVED: HOWARD COUNTY, OFFICE OF PLANNING AND ZONING
Paul M. Anderson 12-12-79
Chief, Division of Land Development Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
W. O. Albert 12-17-79
Chief, Bureau of Engineering Date

11-30-79	Revised Per County Comments
DATE	REVISION DESCRIPTION
OWNER	SANDY HILL PROPERTIES 9802 PUSHCART WAY COLUMBIA, MD 21045
DEVELOPER	SANDY HILL PROPERTIES 9802 PUSHCART WAY COLUMBIA, MD 21045
PROJECT	SANDY HILL ESTATES
AREA	ELECTION DISTRICT NO 3 HOWARD COUNTY, MARYLAND
TITLE	GRADING AND SEDIMENT CONTROL PLAN

TYDINGS & HEIM ASSOCIATES INC.
CONSULTING ENGINEERS, LAND & CONSTRUCTION SURVEYORS
8370 COURT AVENUE, ELLEOTT CITY, MD 21043 465 0660

10-26-79	DESIGNED BY: CRC
DATE	DRAWN BY: TP
PROJECT NO: 419	DATE: MARCH 23, 1979
SCALE: AS SHOWN	DRAWING NO 4 OF 6



CERTIFICATION BY THE DEVELOPER:
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR PONDS AND EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY". DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.
[Signature] 3/27/79
DATE

CERTIFICATION 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".
Charles R. Cochen 10-26-79
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.
J. Helwig 12/11/79
DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.
Robert W. Zihm 12/11/79
DATE

STRUCTURE	DRAINAGE AREA	DISTURBED AREA	VOLUME (C.Y.) AVAIL. REQ'D.	CLEANOUT ELEV.	DEPTH TO CHEST	BOTTOM DIMENSIONS
SED. TRAP/SOS	1.03 AC.	1.03 AC.	72	70	527.0	2.5' x 30'

SITE ANALYSIS

SITE AREA	43.15 AC.
DISTURBED AREAS	1.03 AC.
IMPERVIOUS AREAS	0.56 AC.
AREA TO BE PERMANENTLY REVEGETATED	0.47 AC.

APPROVED: HOWARD COUNTY, OFFICE OF PLANNING AND ZONING

John M. Calburn 12-79
Chief, Division of Land Development Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

W.D. Hunt 12-17-79
Chief, Bureau of Engineering Date

CERTIFICATION BY THE DEVELOPER:
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR PONDS AND EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY". DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.

SEUNG KIM 12/11/79
ENGINEER DATE

CERTIFICATION 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".

Charles K. Calver 12-26-79
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

J. Helm 12/11/79
SIGNATURE DATE
U.S. SOIL CONSERVATION SERVICE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

Robert J. Zehn 12/11/79
HOWARD S.C.D. DATE

DATE	NO.	REVISION DESCRIPTION
11/30/79	1	REVISED PER COUNTY COMMENTS
OWNER: SANDY HILL PROPERTIES 9802 PUSHCART WAY COLUMBIA, MD. 21045		
DEVELOPER: SANDY HILL PROPERTIES 9802 PUSHCART WAY COLUMBIA, MD. 21045		
PROJECT: SANDY HILL ESTATES		
AREA: ELECTION DISTRICT NO. 3 HOWARD COUNTY, MARYLAND		
TITLE: SEDIMENT CONTROL DETAILS		

TYDINGS HEIM ASSOCIATES INC.
CONSULTING ENGINEERS - LAND & CONSTRUCTION SURVEYORS
8370 COURT AVENUE, ELLICOTT CITY, MD. 21043 465-0660

10-26-79
DESIGNED BY: CRC
DRAWN BY: TP
PROJECT NO: 419
DATE: MARCH 23, 1979
SCALE: NON F
DRAWING NO 5 OF 6

SEDIMENT CONTROL CONSTRUCTION NOTES

GENERAL NOTES

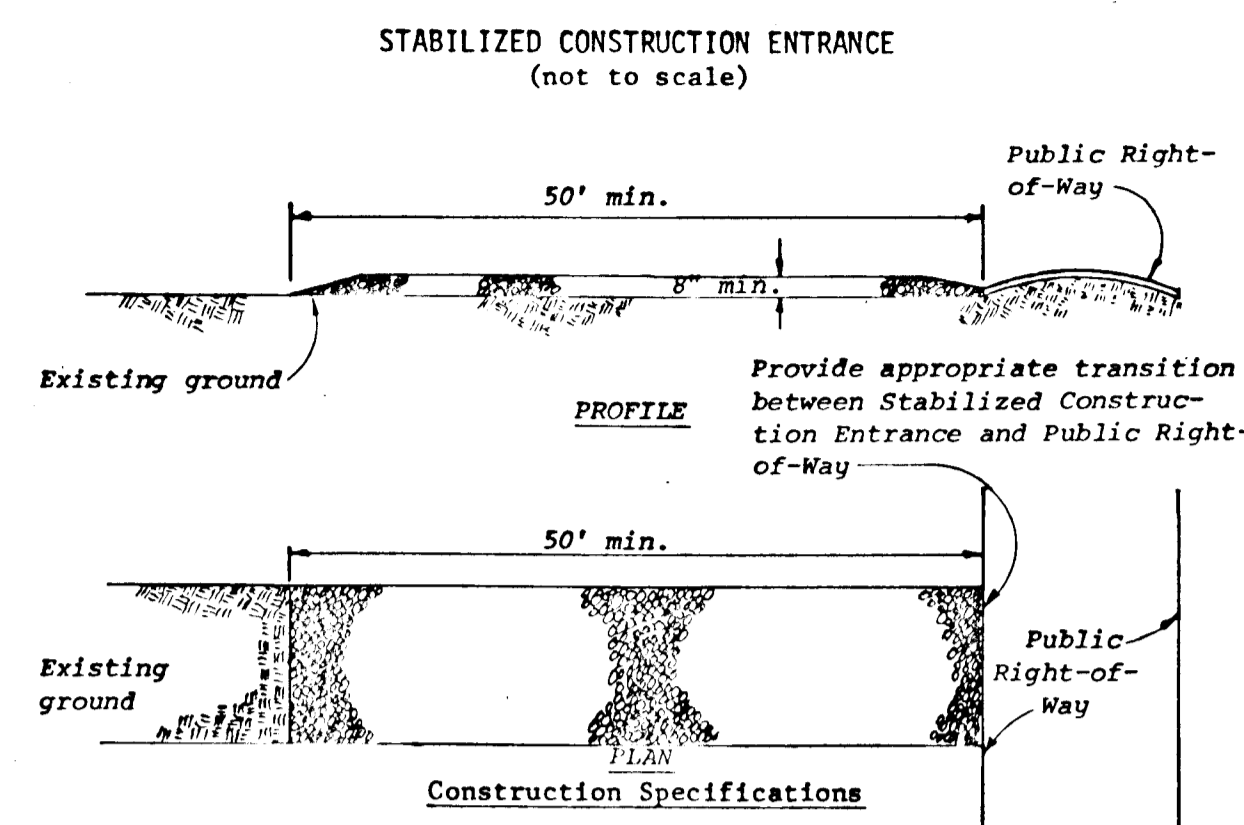
- A MINIMUM 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (922-2070)
- ALL SEDIMENT CONTROL STRUCTURES WILL BE INSTALLED IN ACCORDANCE WITH "THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS" AS PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
- SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
- ALL DISTURBED AREAS ARE TO BE DRESSED AND STABILIZED ACCORDING TO THE TEMPORARY OR PERMANENT SEEDING SCHEDULES AS SOON AS PROPER WEATHER CONDITIONS EXIST FOR THE ESTABLISHMENT OF A PERMANENT VEGETATIVE COVER.
- SEDIMENT WILL BE REMOVED FROM TRAP WHEN THE DEPTH REACHES THE CLEAN OUT ELEVATION SHOWN ON THE PLANS.
- FERTILIZER AND LIME RATES MAY BE CHANGED THROUGH AUTHORIZATION BY THE HOWARD SOIL CONSERVATION DISTRICT IF SOIL TESTS DETERMINE A REDUCTION IN THE SPECIFIED RATES IS JUSTIFIED.
- 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.
- REFERENCES CALLED FOR ON THE SEDIMENT CONTROL CONSTRUCTION PLAN AND DETAILS ARE MADE TO "THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS".

TEMPORARY SEEDING

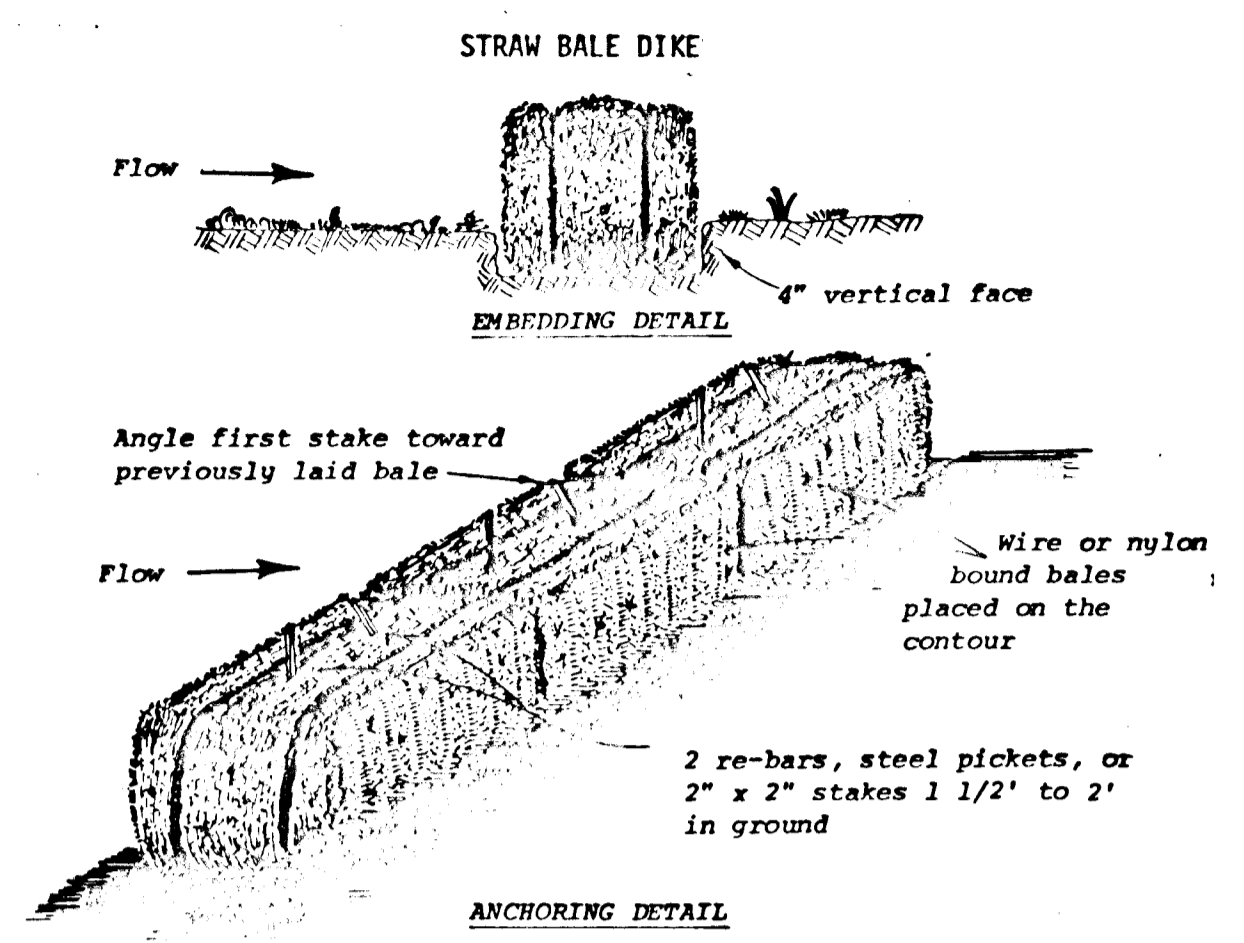
- AREA TO BE SEEDDED SHALL BE RECENTLY LOOSENEED. IF THE GROUND IS PACKED, CRUSTED OR HARD, THE TOP LAYER OF SOIL SHALL BE LOOSENEED BY DISCING, RACKING OR OTHER ACCEPTABLE MEANS.
- APPLY 10-20-10 FERTILIZER (OR EQUIVALENT) AT THE RATE OF 600 LBS. PER ACRE OR 15 LBS. PER 1000 SQ. FT.
 - WHERE SOIL IS KNOWN TO BE HIGHLY ACID, APPLY DOLOMITIC LIMESTONE AT THE RATE OF 1 TON PER ACRE.
 - WORK BOOTH INTO SOIL AND SEED WITH CYCLONE SEEDER, DRILL, CULTIPAKER SEEDER OR HYDROSEEDER (SLURRY WILL INCLUDE SEED AND FERTILIZER) AT THE RATE OF 40 LBS. PER ACRE OF ITALIAN OR PERENNIAL RYEGRASS.
 - MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ. FT.

PERMANENT SEEDING

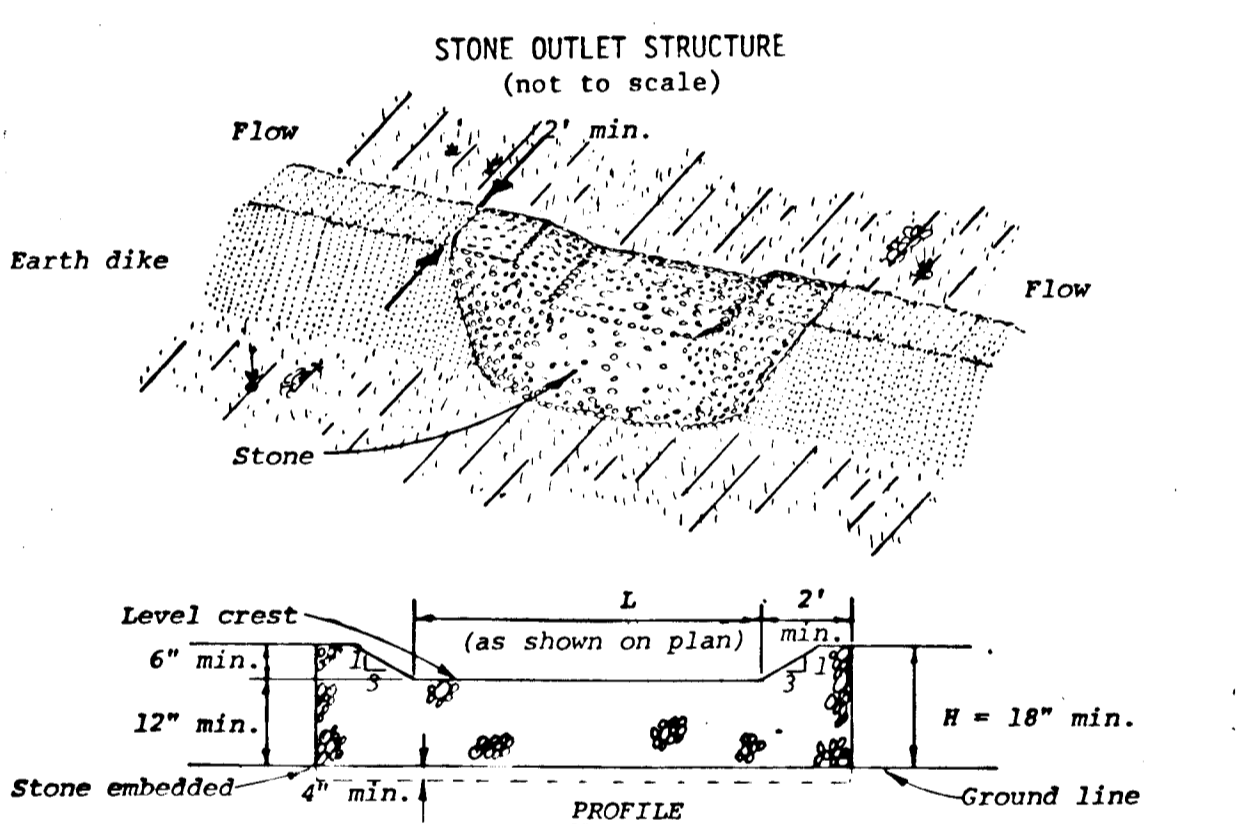
- FINAL STABILIZATION WILL TAKE PLACE AS SOON AS POSSIBLE AS WEATHER CONDITIONS PERMIT, AS FOLLOWS:
- APPLY DOLOMITIC LIMESTONE AT THE RATE OF 2 TONS PER ACRE (ONE TON PER ACRE IF APPLICATION OF TON PER ACRE WAS MADE FOR TEMPORARY SEEDING).
 - APPLY 0-20-20 FERTILIZER AT THE RATE OF 600 LBS. PER ACRE. HARROW OR DISC LIME AND 0-20-20 FERTILIZER INTO THE SOIL TO A MINIMUM DEPTH OF 3 LAWNS OR HIGH MAINTENANCE AREAS WILL BE DRAGGED AND LEVELED WITH A YORK RAKE. AT THE TIME OF SEEDING APPLY 400 POUNDS OF 38-0-0 UREAFORM FERTILIZER AND 500 LBS. OF 10-20-20 OR EQUIVALENT FERTILIZER PER ACRE.
 - SEED WITH A MIXTURE OF CERTIFIED "MERION" KENTUCKY BLUEGRASS @ 40 LBS. PER ACRE; COMMON KENTUCKY BLUEGRASS @ 40 LBS. PER ACRE; RED FESCUE, PENNLAWN OR JAMESTOWN @ 20 LBS. PER ACRE.
 - MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ. FT.
 - SEED ALL SLOPES WITH A MIXTURE OF CERTIFIED KENTUCKY 31 TALL FESCUE @ 50 LBS. PER ACRE AND INOCULATED KOREAN LESPEDEZA @ 15 LBS. PER ACRE.



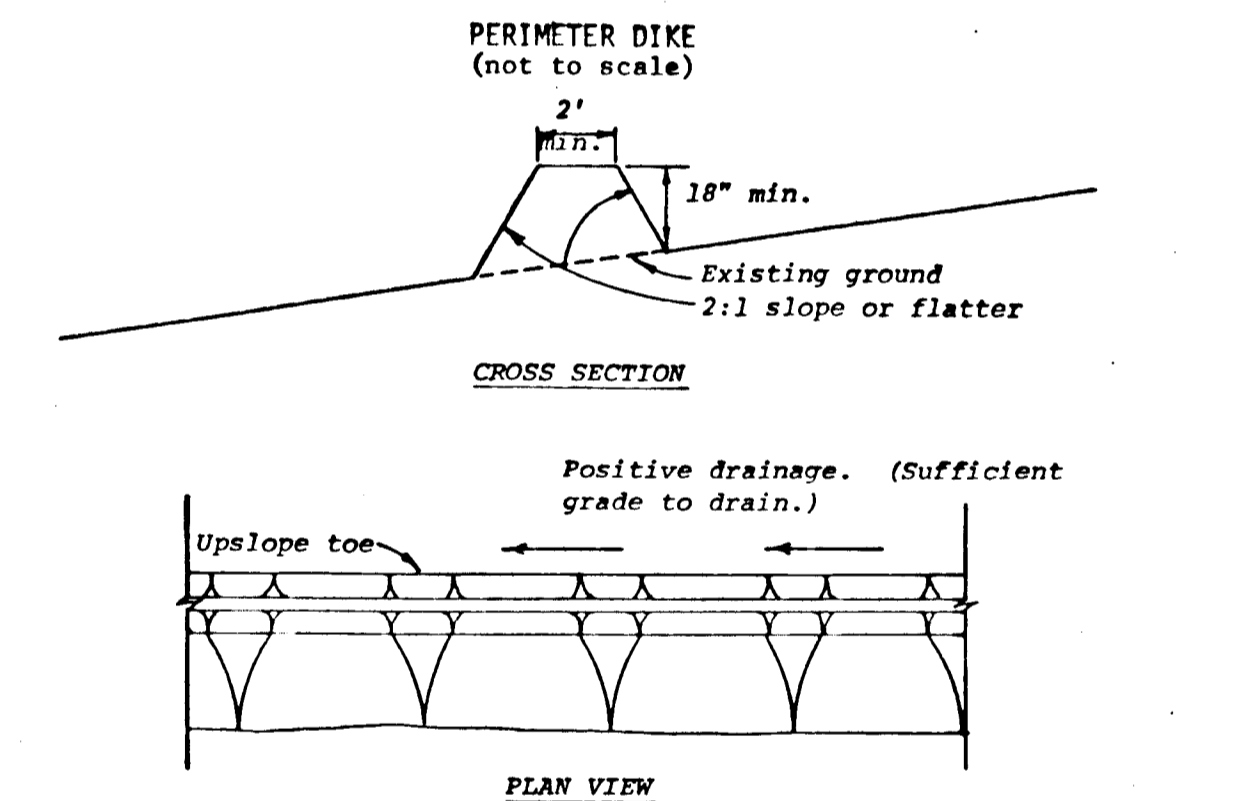
- Construction Specifications**
- Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M43, size No. 2 (2-1/2" to 1-1/2"). Use crushed stone.
 - Length - As effective, but not less than 50 feet.
 - Thickness - Not less than eight (8) inches.
 - Width - Not less than full width of all points of ingress or egress.
 - Washing - When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sand bags, gravel, boards or other approved methods.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.



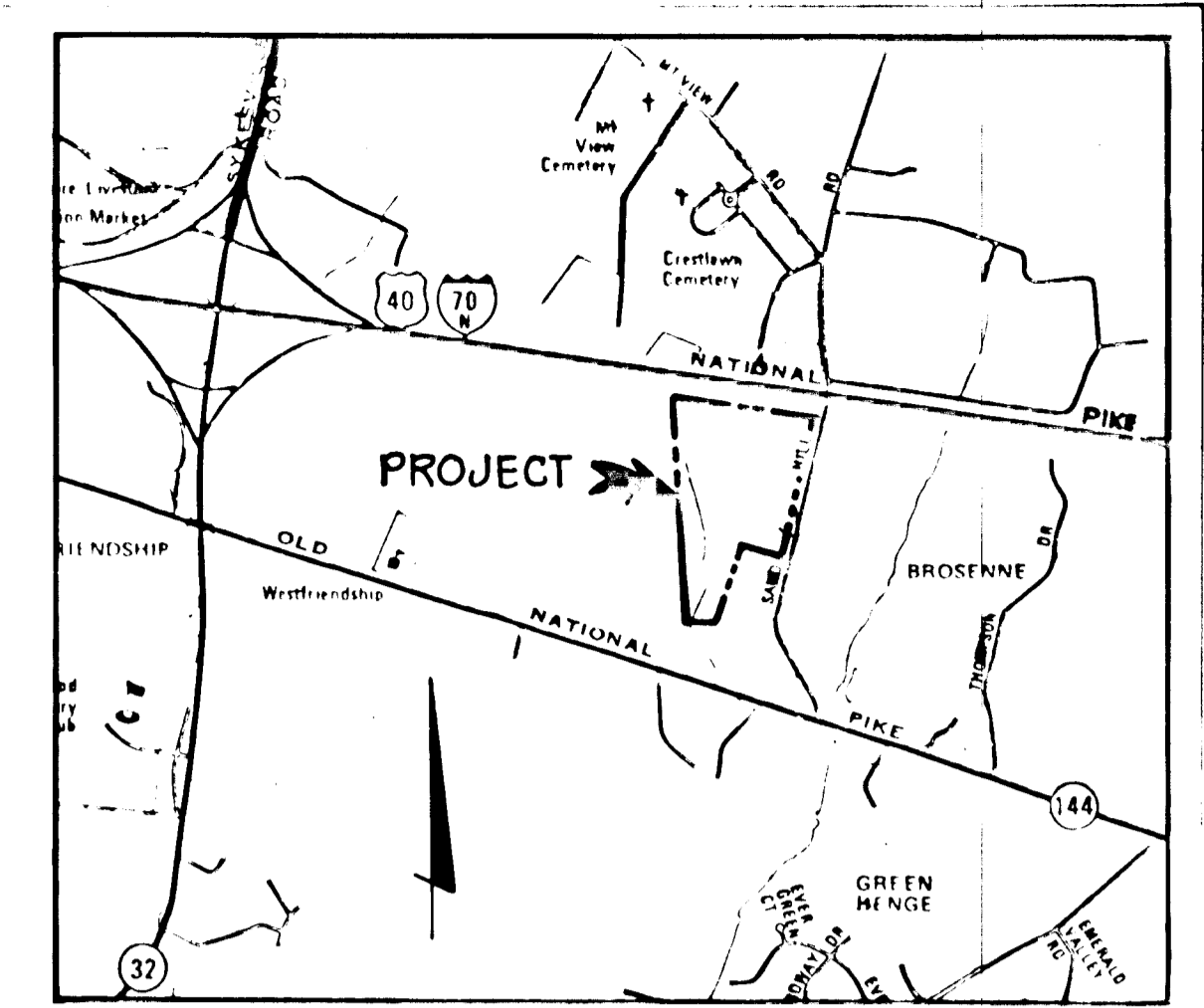
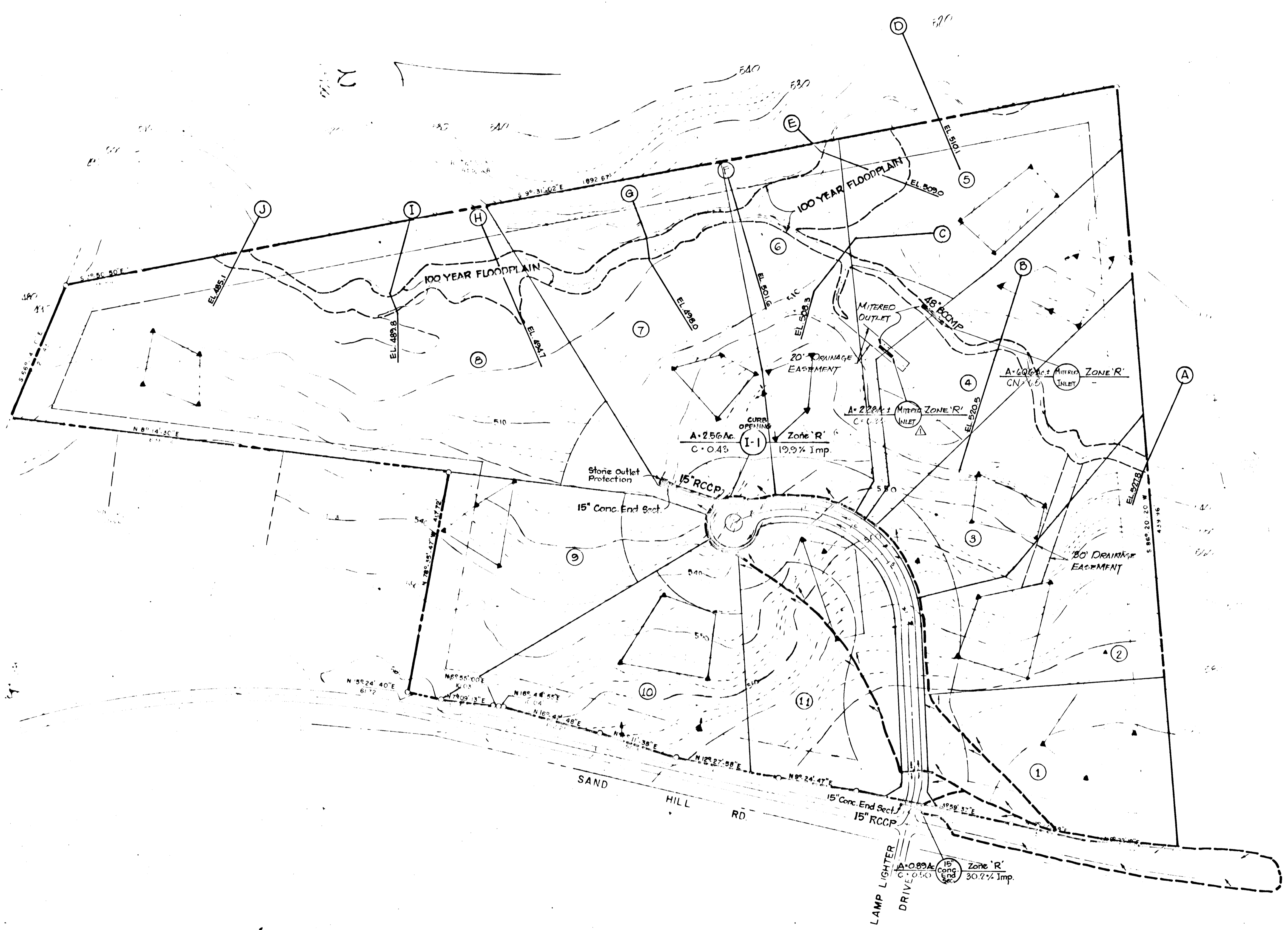
- Construction Specifications**
- Bales shall be placed in a row with ends tightly abutting the adjacent bales.
 - Each bale shall be embedded in the soil a minimum of 4".
 - Bales shall be securely anchored in place by stakes or re-bars driven through the bales. The first stake in each bale shall be angled toward previously laid bale to force bales together.
 - Inspection shall be frequent and repair or replacement shall be made promptly as needed.
 - Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.



- Construction Specifications**
- The stone shall be crushed stone. Gravel may be used if crushed stone is not available. The stone shall meet MSHA Size No. 2 or AASHTO designation M43 Size No. 2 or 24.
 - The crest of the stone dike shall be at least six inches lower than the lowest elevation of the top of the earth dike and shall be level.
 - The stone outlet structure shall be embedded into the soil a minimum of four inches.
 - The minimum length, in feet, of the crest of the stone outlet structure shall be equal to six times the number of acres of contributing drainage area.
 - The stone outlet structure shall be inspected after each rain, and the stone shall be replaced when the structure ceases to function as intended due to silt accumulation among the stone, washout, construction traffic damage, etc.



- Construction Specifications**
- All dikes shall be machine compacted.
 - All perimeter dikes shall have positive drainage to an outlet.
 - A. Diverted runoff from a protected or stabilized upland area shall outlet directly onto an undisturbed stabilized area or into a level spreader or grade stabilization structure.
B. Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as sediment trap or a sediment basin or to an area protected by any of these practices.
 - Stabilization, when required, shall be done in accordance with Standard and Specifications for Grassed Waterway. The minimum area to be stabilized shall be the channel flow area.
 - Periodic inspection and required maintenance shall be provided.



VICINITY MAP
SCALE = 1" = 200'

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Shelley M. ... 12-17-79
 Chief, Division of Land Development Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
W.O. ... 12-17-79
 Chief, Bureau of Engineering Date

11-30-79, Δ, REVISED PER COUNTY COMMENTS
 DATE NO REVISION DESCRIPTION

OWNER SANDY HILL PROPERTIES
 9802 PUSH CART WAY
 COLUMBIA, MD. 21045

DEVELOPER SANDY HILL PROPERTIES
 9802 PUSH CART WAY
 COLUMBIA, MD. 21045

PROJECT SANDY HILL ESTATES

AREA ELECTION DISTRICT NO 3
 HOWARD COUNTY, MARYLAND

TITLE DRAINAGE AREA MAP

TYDINGS HEIM
 ASSOCIATES INC.
 CONSULTING ENGINEERS, LAND & CONSTRUCTION SURVEYORS
 1000 ...

10-26-79
 DESIGNED BY CRC
 DRAWN BY TP
 PROJECT NO 410
 DATE MARCH 23, 1979
 SCALE AS SHOWN
 DRAWING NO 6 OF 6