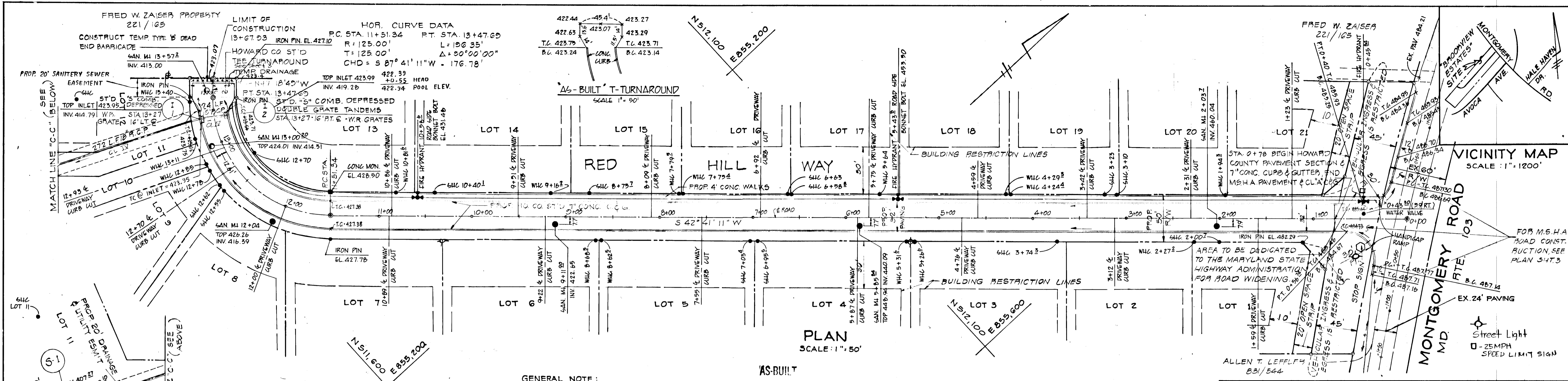
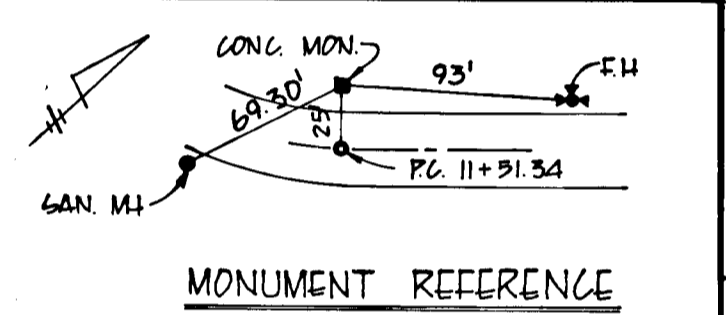


PLAN	DATE
SURVAYED	BY
NOTED	
ALIGNED	
CHECKED	
BY	
NO.	



APPROVED DEPARTMENT OF PUBLIC WORKS
Allen S. Brown 5/1/81
CHIEF, BUREAU OF ENGINEERING DATE

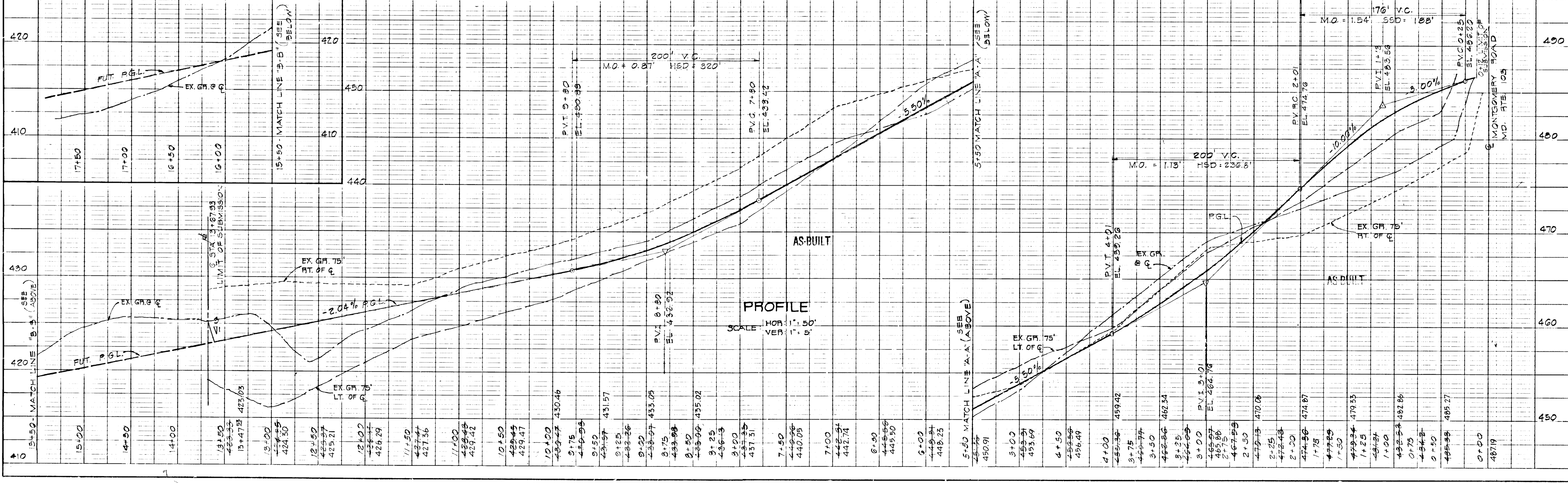
APPROVED OFFICE OF PLANNING AND ZONING
William M. ... 4/21/81
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE



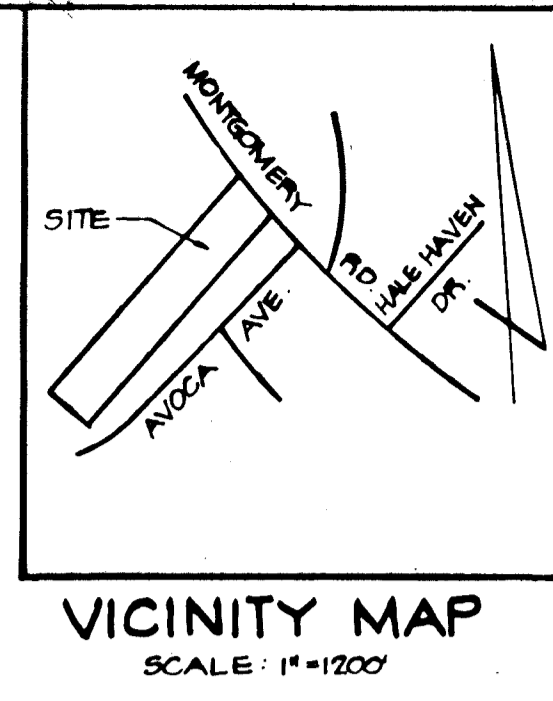
U.C.B.	DATE: 6-9-82	REV. BRICKED SIDEWALK ON R.S. SIDE OF ROAD
R.R.S.	DATE: 4-14-81	REV. SEDIMENT CONTROL @ S1 ALSO TIE TURNAROUND

PROJECT: ROAD CONSTRUCTION PLAN: STA. 0+00 - STA. 13+67.93			
PROJECT: BROOKVIEW ESTATES			
LOCATION:	2ND ELECTION DISTRICT	HOWARD CO., MD.	
DATE:	NOV. 1978	DESIGN BY:	W.H.N.
SCALE:	A5 SHOWN	JOB NO.:	77250
		DRAWN BY:	W.H.N.
		CHECKED BY:	R.L.M.
		DRAWING NO.:	1 OF 3
BALTIMORE 301-465-7777		SALISBURY 301-749-1286	
boender associates		engineers surveyors planners	

PROFILE	DATE
SURVAYED	BY
NOTED	
GRADES CHECKED	
BY	
NO.	

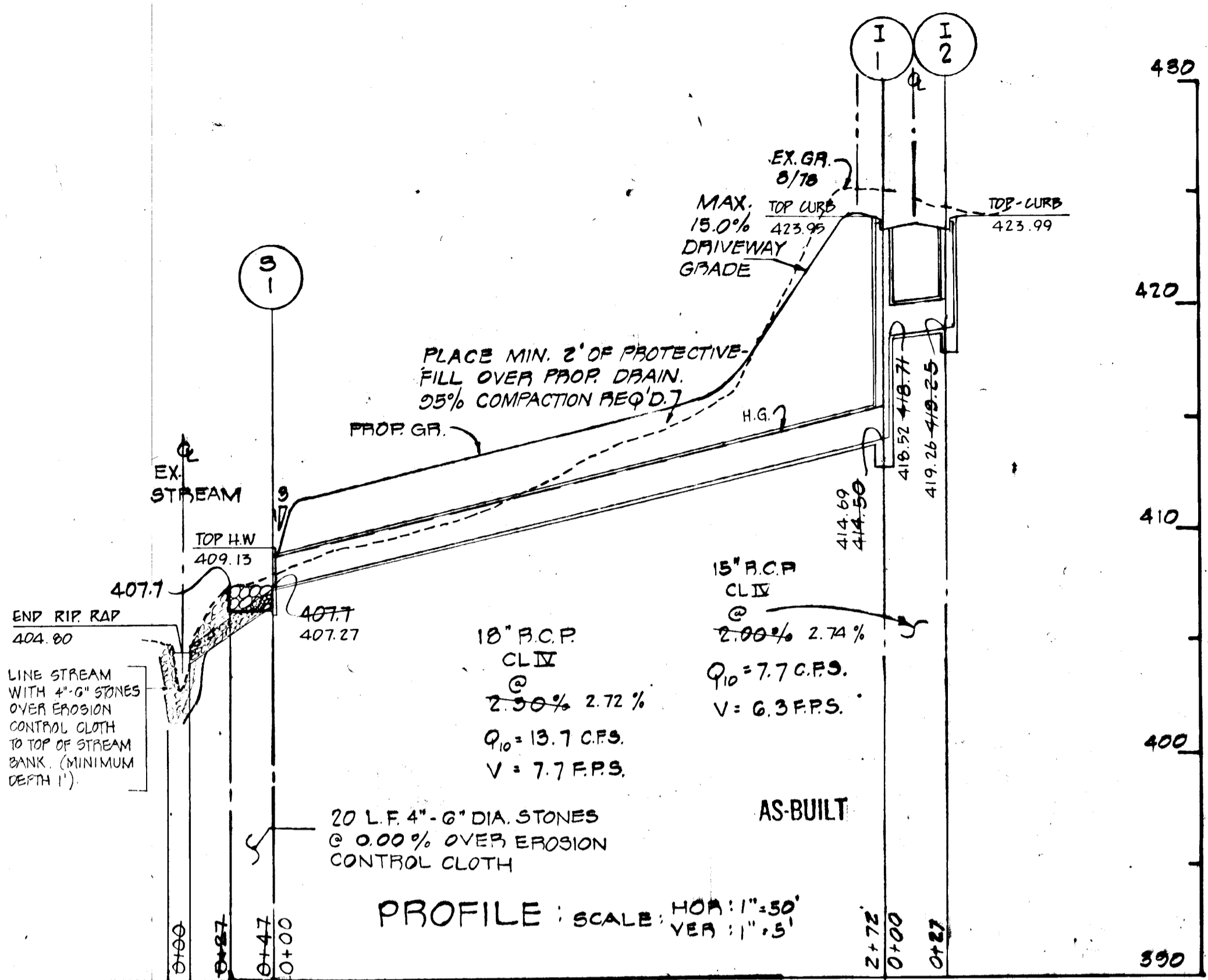


#129



CONSTRUCTION SEQUENCE

1. OBTAIN GRADING PERMIT.
2. NOTIFY HOWARD COUNTY BUREAU OF LICENSE, INSPECTIONS AND PERMITS 24 HRS. PRIOR TO GRADING OPERATION. - PH. 292-2435
3. INSTALL TEMPORARY SEDIMENT CONTROL MEASURES - PERIMETER DIKES, DIVERSION DIKES, S.C.E. AND STONE OUTLET STRUCTURES.
4. BEGIN EARTHWORK - MAINTAINING SEDIMENT CONTROL MEASURES, SEEDS & MULCH SWALE IMMEDIATELY UPON COMPLETION.
5. UTILITIES MAY BE INSTALLED AT THIS POINT.
6. BLOCK UPSTREAM END OF PIPE AT THE END OF WORK EACH DAY - AND BLOCK ALL INLETS.
7. STABILIZE PAVING AREAS WITH BASE COURSE AND STABILIZE DISTURBED AREAS WITH TEMPORARY OR PERMANENT STABILIZATION MEASURES.
8. CONSTRUCT PAVING WITH CONC. C & G. COMPLETE PERMANENT STABILIZATION MEASURES.
9. REMOVE TEMPORARY SEDIMENT MEASURES WITH APPROVAL OF HOWARD COUNTY BUREAU OF LICENSE, INSPECTIONS, AND PERMITS.



SEDIMENT CONTROL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS" PREPARED BY THE U.S.A. SOIL CONSERVATION SERVICE.
2. APPLY FOR GRADING PERMIT.
3. NOTIFY THE BUREAU OF LICENSE INSPECTIONS AND PERMITS 24 HRS. PRIOR TO GRADING OPERATIONS.
4. CONSTRUCTION SHALL ADHERE TO THE CONSTRUCTION SEQUENCE.
5. CUT AND FILL SLOPES SHALL BE 3:1 MAXIMUM.
6. ELEVATIONS MARKED SHOULD BE ON THE GRADE.
7. ANY EXCESS MATERIAL SHALL BE STOCKPILED IN A CLEARED LOCATION ON-SITE WHICH IS PROTECTED BY SEDIMENT CONTROL STRUCTURE(S). MAXIMUM FILL SLOPE SHALL BE 3:1. STOCKPILED MATERIAL SHALL BE STABILIZED ACCORDING TO SLEDDING SPECIFICATIONS BELOW.
8. SEDIMENT CONTROL STRUCTURES SHALL BE REMOVED ONLY WITH PERMISSION OF THE BUREAU OF LICENSE, INSPECTIONS AND PERMITS.
9. STABILIZATION MEASURES:
 - TEMPORARY STABILIZATION:
 - APPLY: 4000 LBS./AC. OR 461 LBS. OF PULVERIZED DOLOMIC LIMESTONE, 500 LBS./AC. OR 11.5 LBS./1000 SQ. FT. OF 10-20-10 FERTILIZER, PLANT WITH RYEGRASS AT 40 LBS./AC. MULCH ALL DISTURBED AREAS IMMEDIATELY AFTER GRADING.
 - PERMANENT STABILIZATION:
 - APPLY: 4000 LBS./AC. OF PULVERIZED DOLOMIC LIMESTONE, 500 LBS./AC. OF 10-10-10 FERTILIZER.
 - SEED: 85 LBS./AC. OF KENTUCKY 31 TALL FESCUE, 40 LBS./AC. OF KENTUCKY BLUE GRASS, 25 LBS./AC. OF ANNUAL RYEGRASS.

NOTE: SEEDING MAY BE DONE BETWEEN MARCH 1 - MAY 1, OR AUG. 1 - OCT. 1 ONLY. MULCH ALL DISTURBED AREAS IMMEDIATELY AFTER GRADING. MULCH: 2 TONS/AC. OF UNWEATHERED WHEATSTRAW. TIE MULCH DOWN WITH 480 GAL./AC. OF LIQUID ASPHALT.

ENGINEER'S CERTIFICATE

WHEREAS ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE ACCORDING TO THIS PLAN OF EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERMITTING AGENCIES OF THE HOWARD SOIL CONSERVATION DISTRICT OF THEIR AUTHORITY TO CONDUCT INSPECTIONS AND DEVIATION GROSS. THIS PLAN WILL NOT BE MADE UNLESS APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.

Jose Arroyo MARCH 1, 1979

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND FEASIBLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT THE SAME IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Rudolph May Jr. MARCH 1, 1979

APPROVED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

Darryl Beckner 4-21-81

THE DEVELOPMENT IS APPROVED SOIL EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.

#7227 *W. T. Rowe* 4-21-81

HOWARD

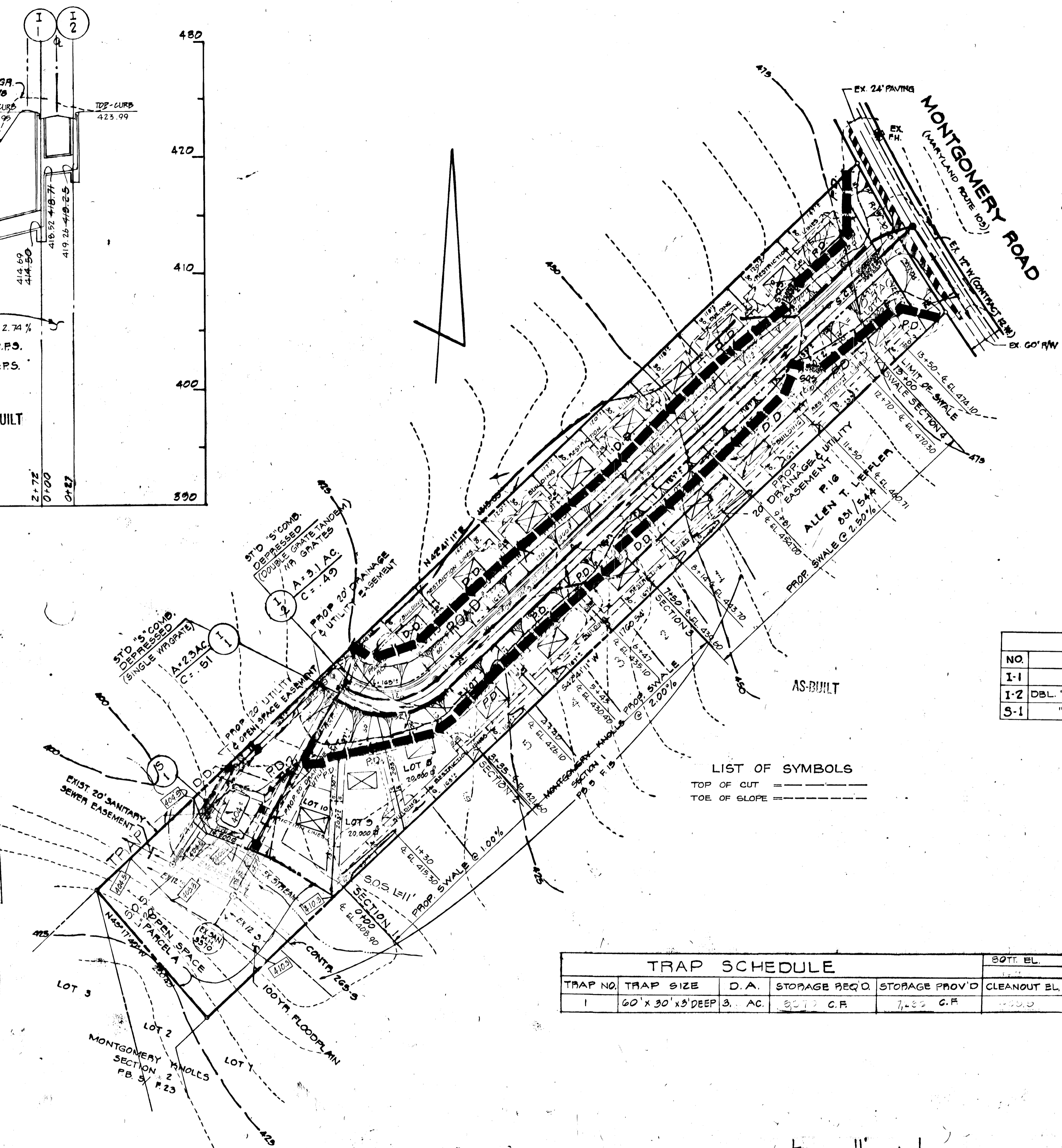
J.C.B. DATE: 6-9-81 REV. FRAMED SIDEWALK ON RT. SIDE
R.R.S. DATE: 4-14-81 REV. PROFILE & ADDED LIST OF SYMBOLS

APPROVED DEPARTMENT OF PUBLIC WORKS

Allen S. Brown 5/1/81
CHIEF - BUREAU OF ENGINEERING DATE

APPROVED OFFICE OF PLANNING AND ZONING

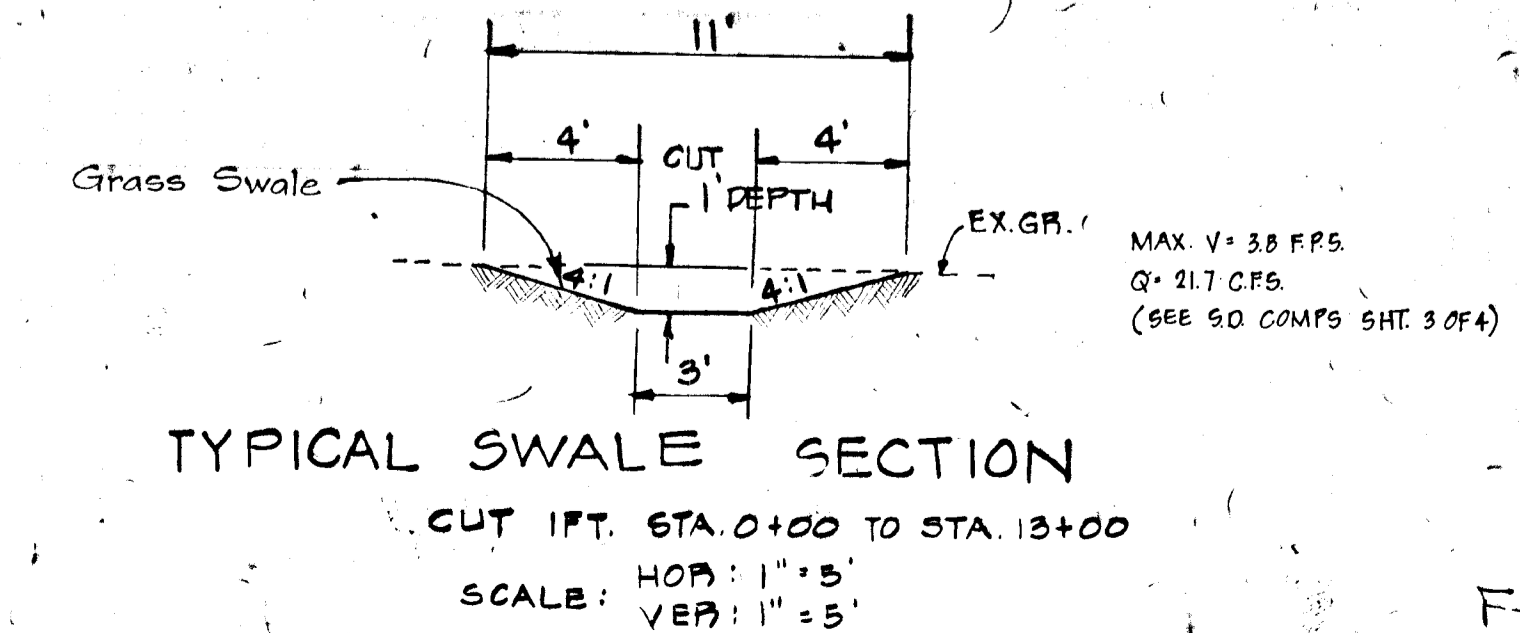
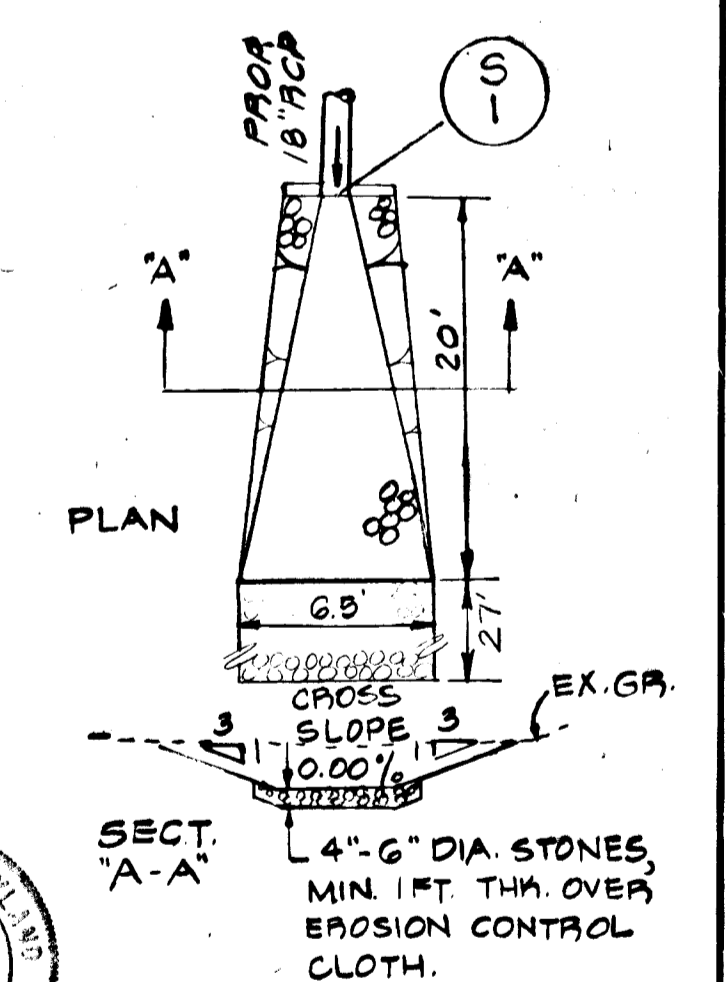
William H. Brown 4-21-81
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE



NO.	TYPE	IN/IN	IN/OUT	TOP EL.	REMARKS
I-1	'S' COMB.-	418.71	414.59	423.87 ^{TC}	HO. CO. STD. D-29 PG. 154
I-2	DBL. 'S' COMB.-	-	419.25	423.87 ^{TC}	HO. CO. STD. D-29 PG. 154
S-1	"C" HEADWALL	-	407.70	409.95	HO. CO. STD. D-52 PG. 107

SITE ANALYSIS

TOTAL AREA OF SITE = 12.0 AC.
 AREA DISTURBED = 4.3 AC.
 AREA PAVED = 0.9 AC.
 AREA REVEGETATED = 3.4 AC.
 AREA UNDISTURBED = 7.7 AC.



SEDIMENT CONTROL PLAN, DRAINAGE AREA

PROJECT: MAP, STORM DRAIN PROFILES AND DETAILS
 PROJECT: BROOKVIEW ESTATES

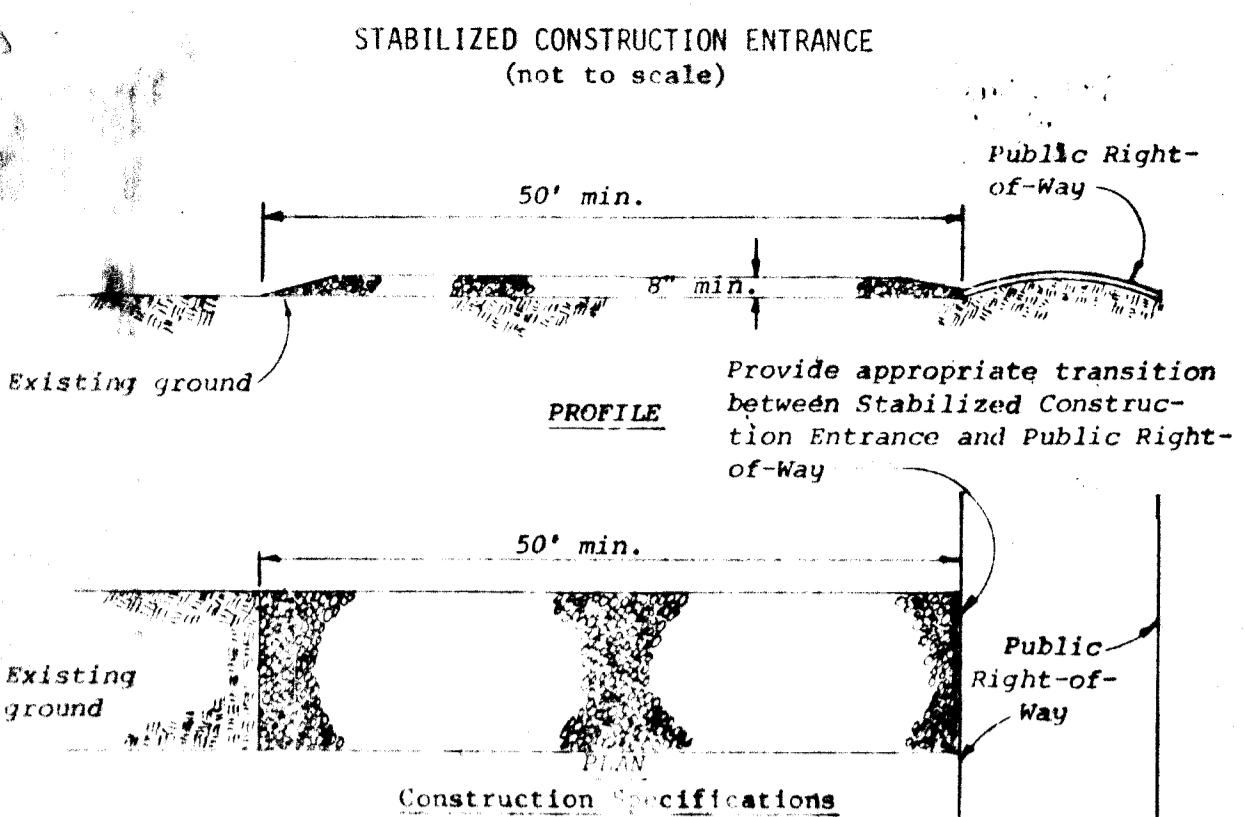
LOCATION: 2 ND ELECTION DISTRICT HOWARD CO., MD.

DATE: NOV., 1978 DESIGN BY: W.H.N. DRAWN BY: W.H.N. CHECKED BY: R.L.M.

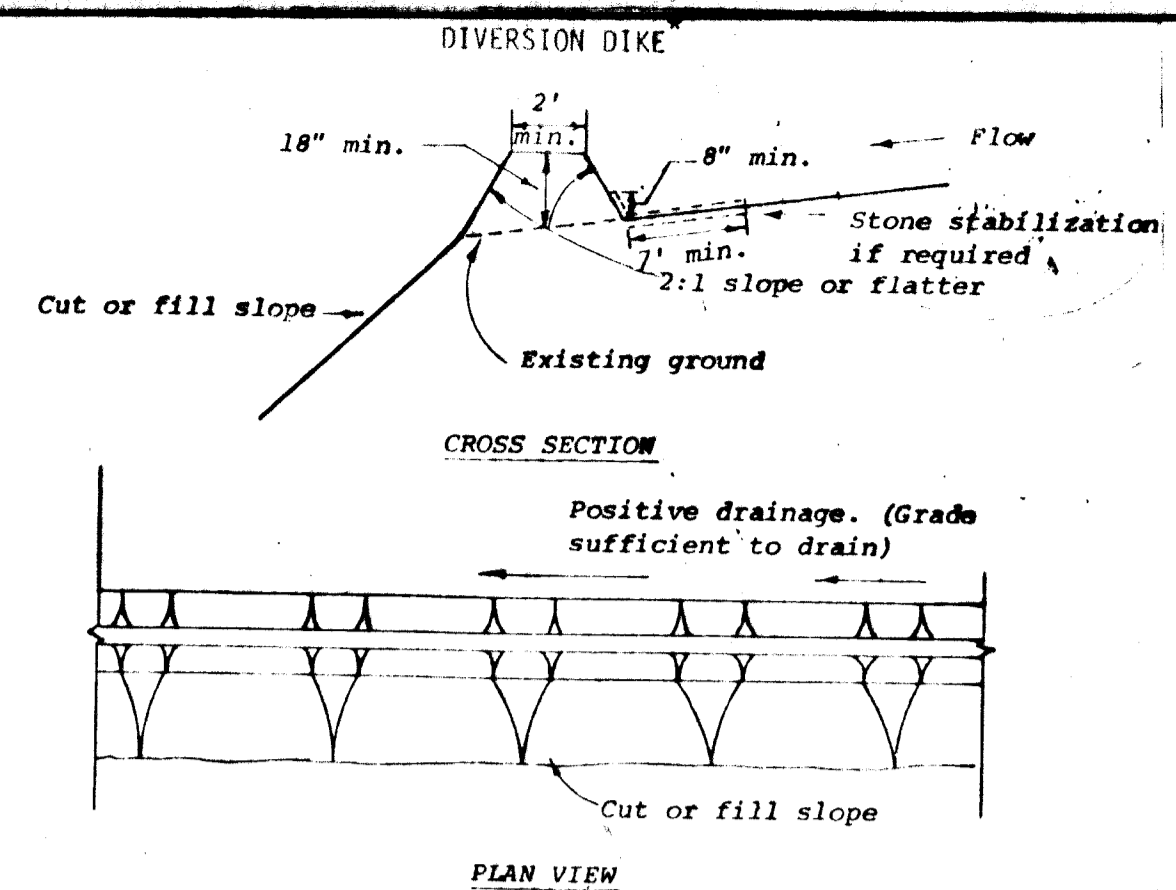
SCALE: 1"=100' JOB NO.: 77250 DRAWING NO.: 2 OF 3

boender associates
 SUITE 102 107 TOWN & COUNTRY PROFESSIONAL BUILDING
 ELLICOTT CITY, MARYLAND 21043
 BALTIMORE 301 446-7377 SALISBURY 301 746-1286

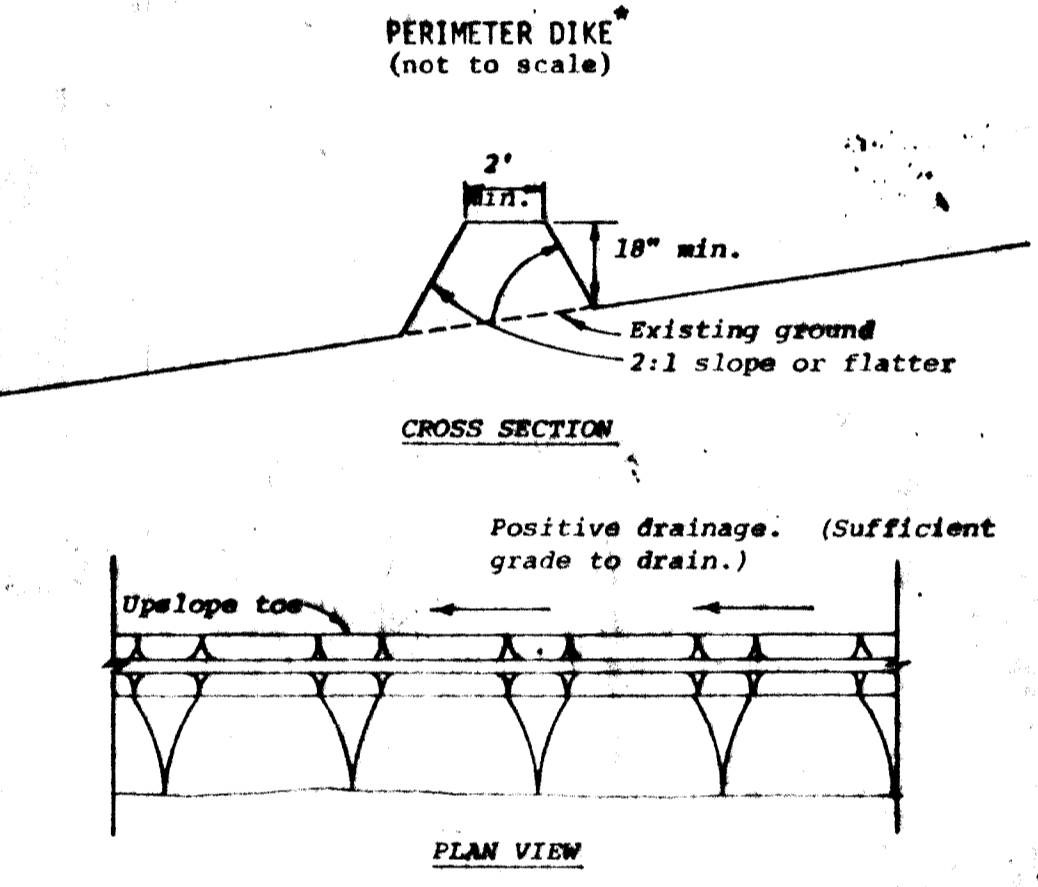
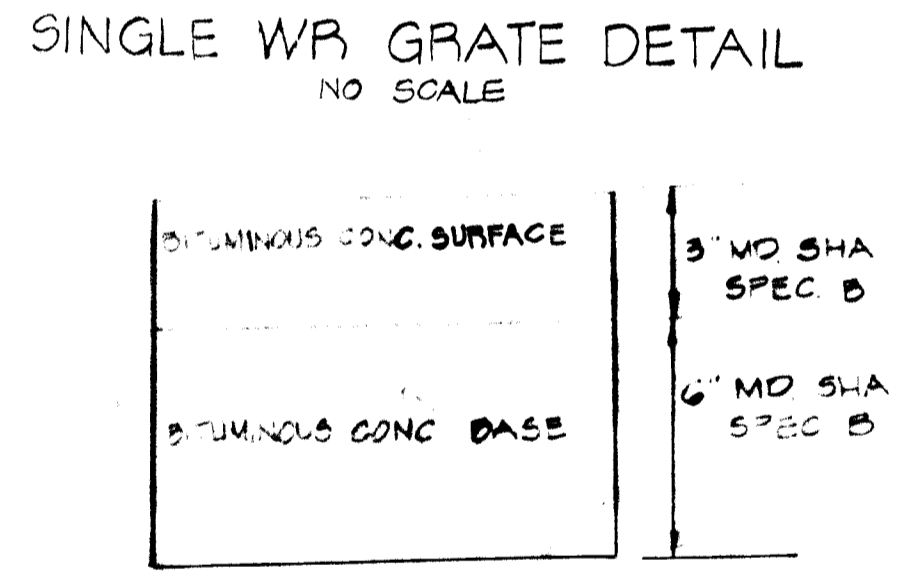
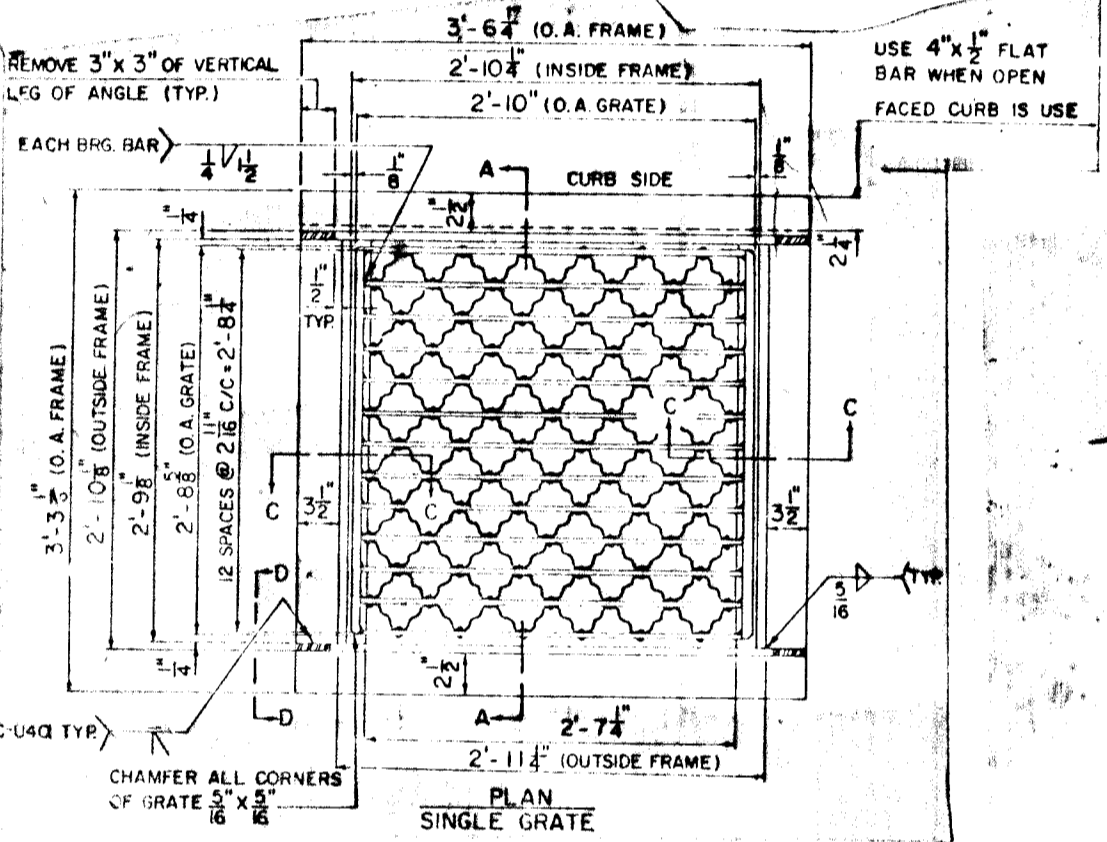
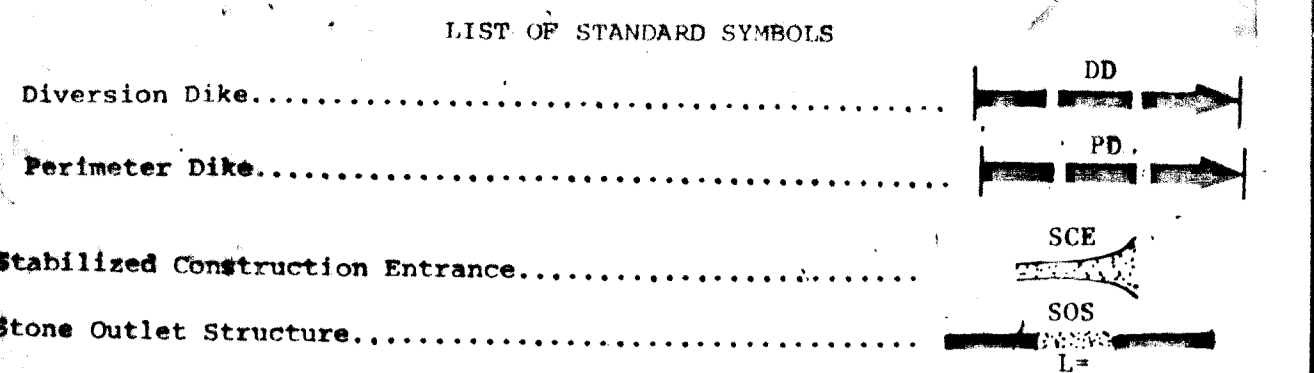
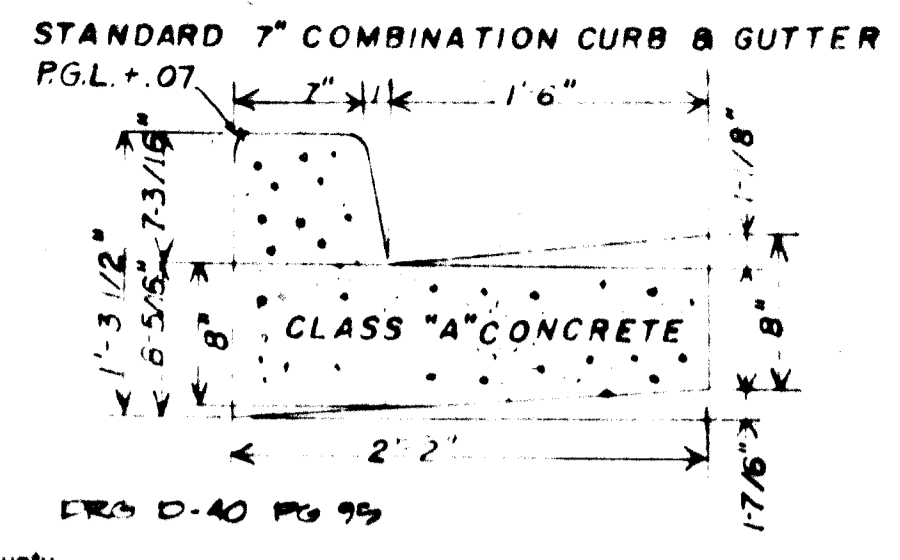
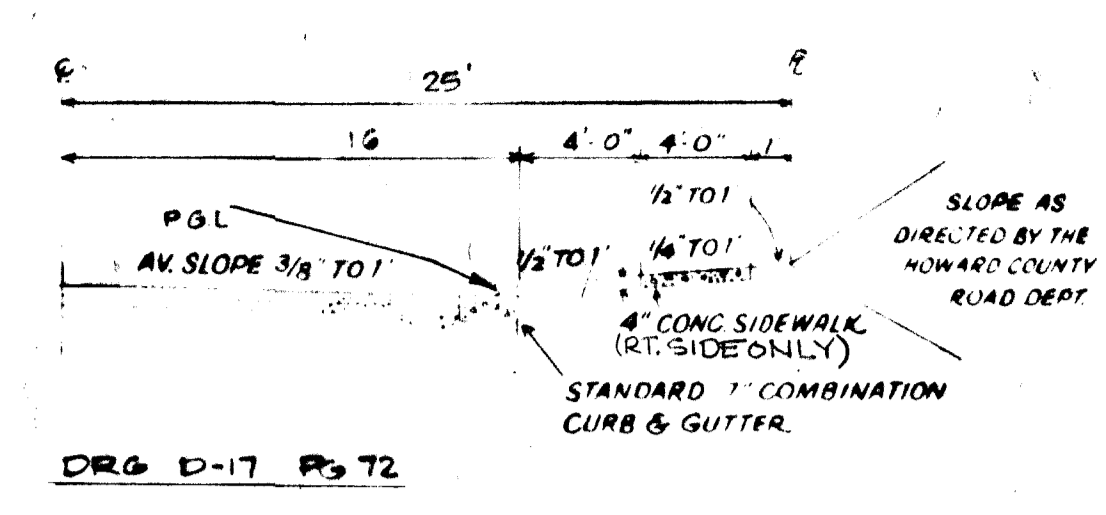
engineers
 surveyors
 planners



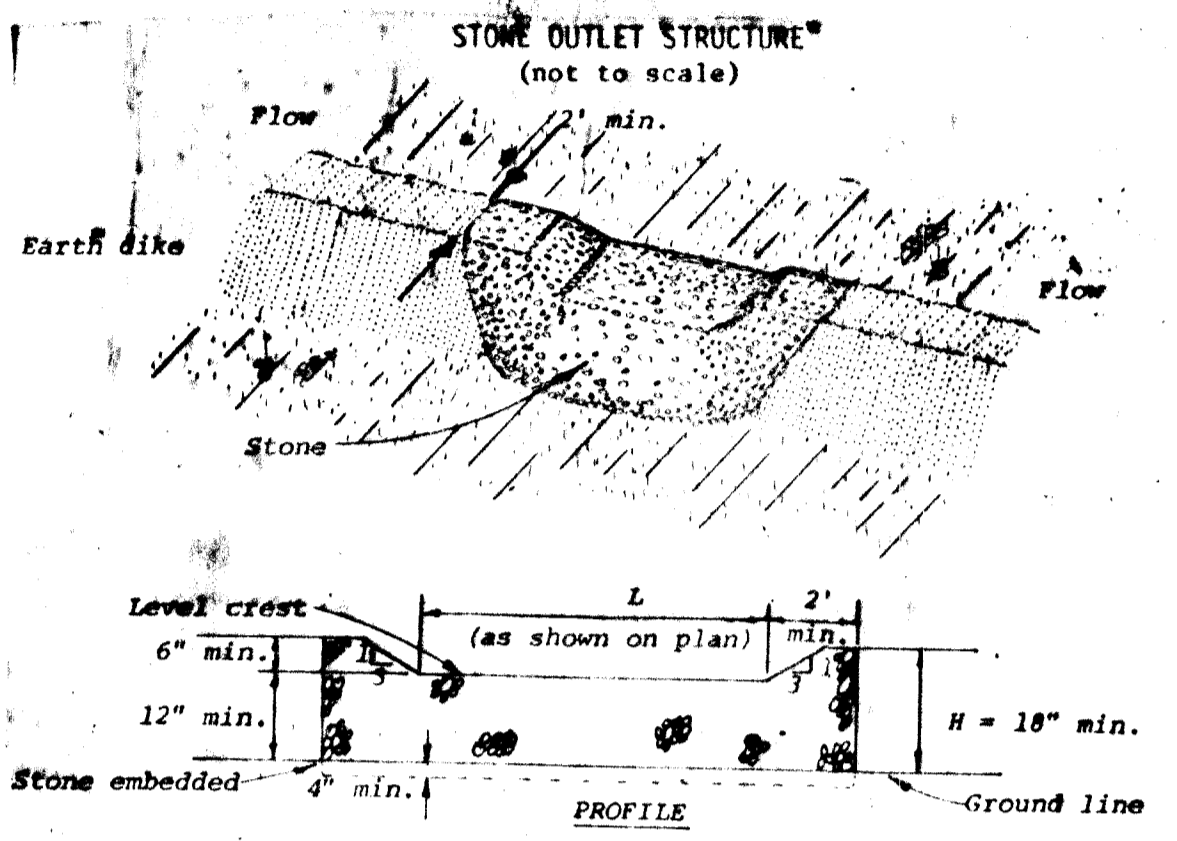
1. Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M43, size No. 2 (2-1/2" to 1-1/2") crushed stone.
2. Length - As effective, but not less than 50 feet.
3. Thickness - Not less than eight (8) inches.
4. Width - Not less than full width of all points of ingress or egress.
5. Washing - 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.
6. 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.



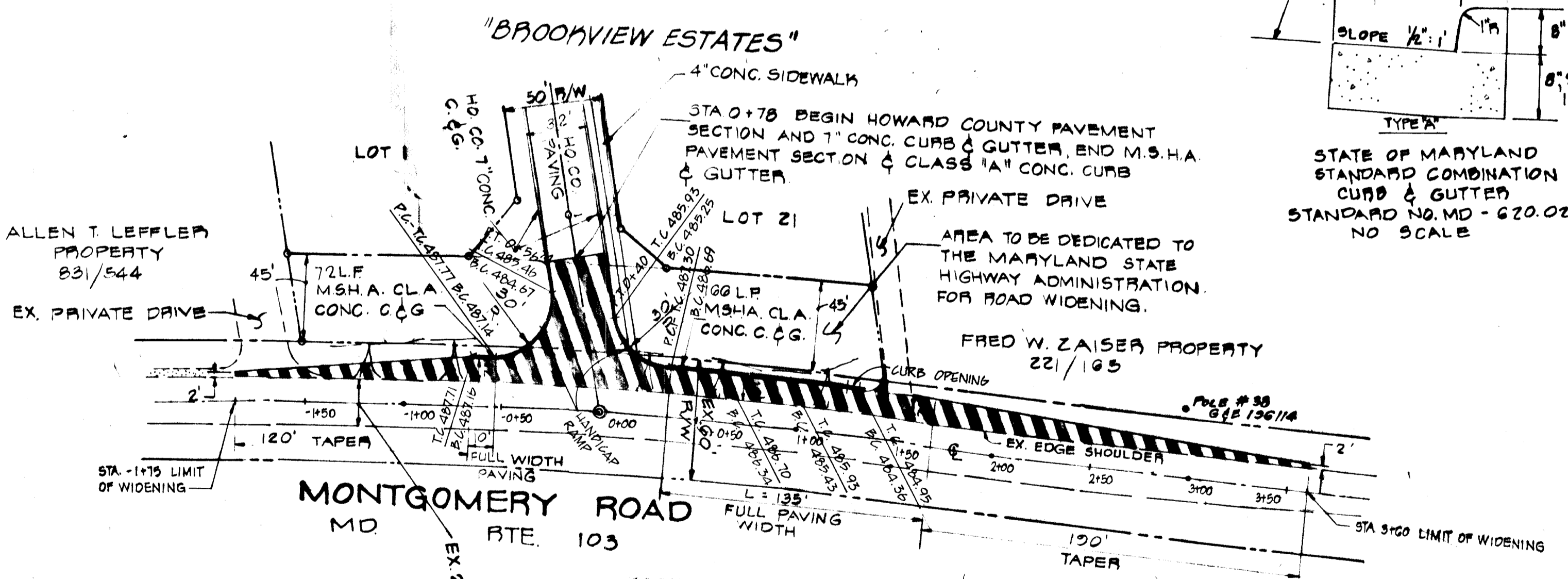
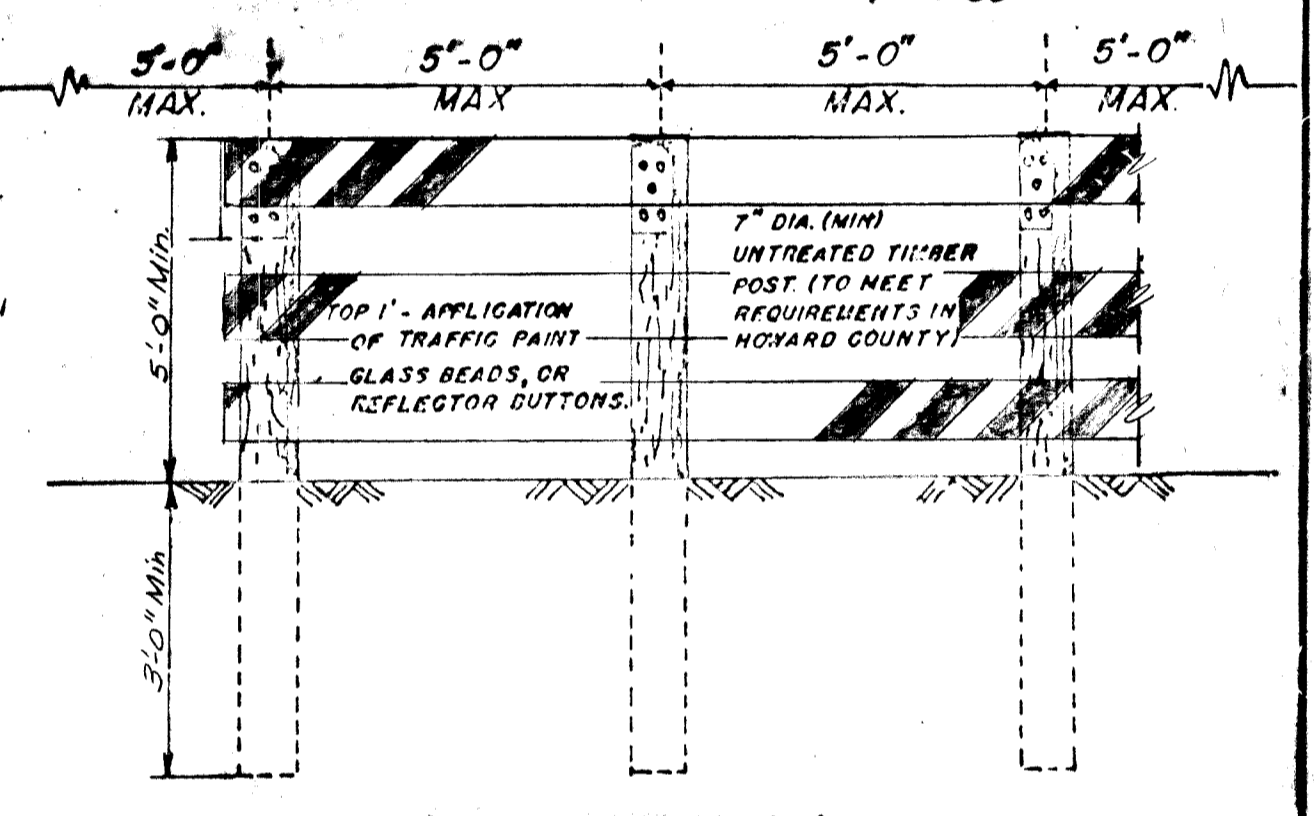
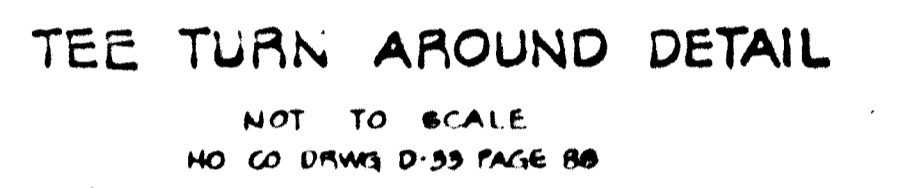
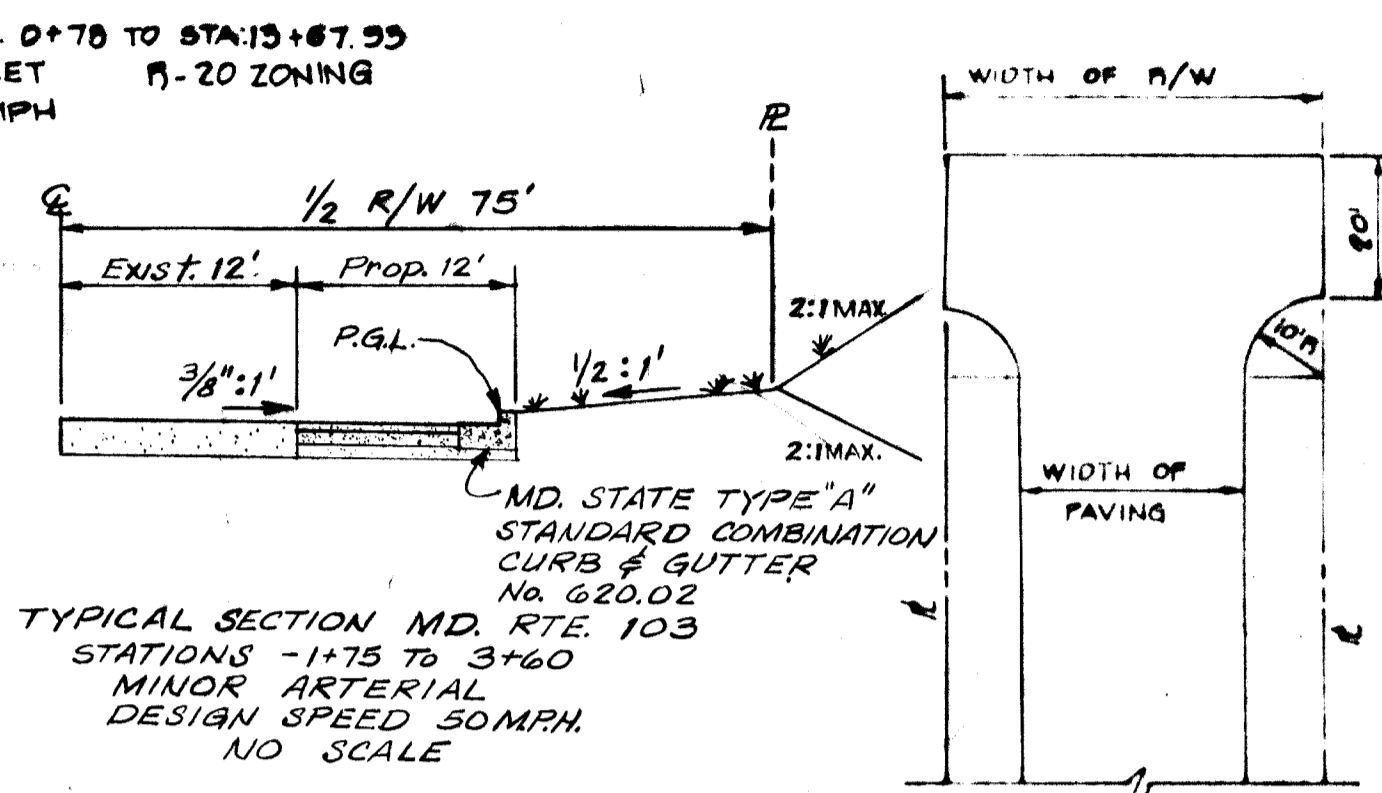
1. All dikes shall be machine compacted.
2. All diversion dikes shall have positive drainage to an outlet.
3. A. Diverted runoff from a protected or stabilized area shall outlet directly to an undisturbed stabilized area or into a level spreader or grade stabilization structure.
B. Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as a sediment trap or a sediment basin or to an area protected by any of these practices.
4. Stabilization, as specified by the plans, shall be: (1) in accordance with Standard and Specifications for Grassed Waterway, and the area to be stabilized shall be the channel (flow area); or (2) the flow area shall be lined with stone that meets MSHA size No. 2 or AASHTO M43 size No. 2 or 24 which is placed in a 3 inch thick layer and pressed into the soil. The area covered by the stone shall be as shown on the drawing above.
5. Periodic inspection and required maintenance shall be provided.



1. All dikes shall be machine compacted.
2. All perimeter dikes shall have positive drainage to an outlet.
3. 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 a sediment trap or a sediment basin or to an area protected by any of these practices.
4. 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.
5. Periodic inspection and required maintenance shall be provided.



1. 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.
2. 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.
3. The stone outlet structure shall be embedded into the soil a minimum of four inches.
4. 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.
5. 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.



REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

Joseph R. ... 4-21-81
U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT IS APPROVED SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

William J. ... 4-21-81
HOWARD SOIL CONSERVATION DISTRICT DATE

DEVELOPER'S CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR 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.

Jose Arroyo 3/1/77
DEVELOPER JOSE ARROYO DATE

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 DISTRICT.

Rodolph L. May Jr. 3/1/77
ENGINEER RODOLPH L. MAY JR. DATE

APPROVED DEPARTMENT OF PUBLIC WORKS

Allen A. Brown 5/1/81
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED OFFICE OF PLANNING AND ZONING

William J. ... 4-21-81
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

SEDIMENT CONTROL DETAILS, MONTGOMERY ROAD PLAN AND DETAILS BROOKVIEW ESTATES

PROJECT: 2ND ELECTION DISTRICT HOWARD COUNTY, MD
DATE: NOV. 1978 DESIGN BY: WHN TOWN BY: WHN CHECKED BY: PLM
SCALE: AS SHOWN JOB NO: 77250 DRAWING NO: 3 OF 3

boender associates engineers/surveyors/planners
SUITE 102 107 TOWN & COUNTRY PROFESSIONAL BUILDING
ELLCOTT CITY, MARYLAND 21043
BALTIMORE 301-468-7717 CALLETON 301-446-1266

Owner and Developer
JOSE ARROYO
5700 FLUM HILL COURT
ELLCOTT CITY MD. 21043
Rodolph May Jr.
11-29-78