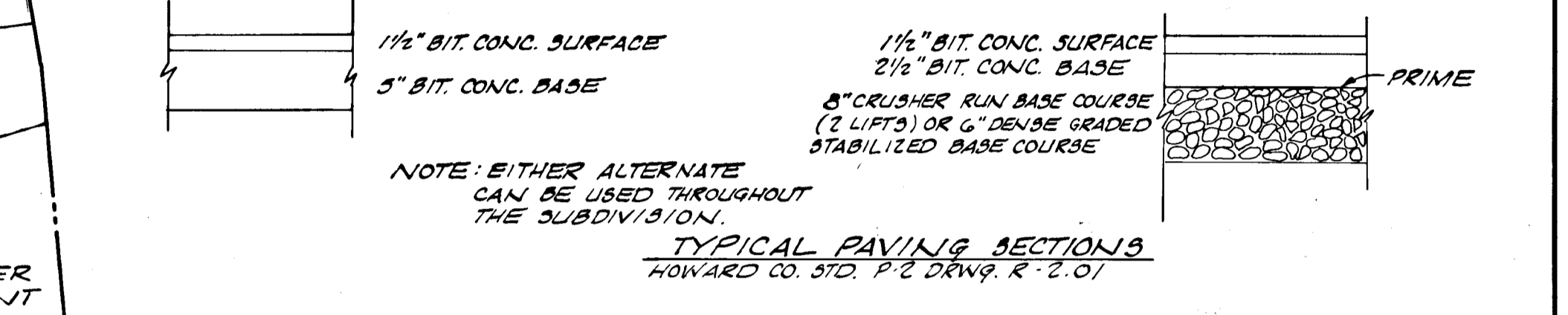
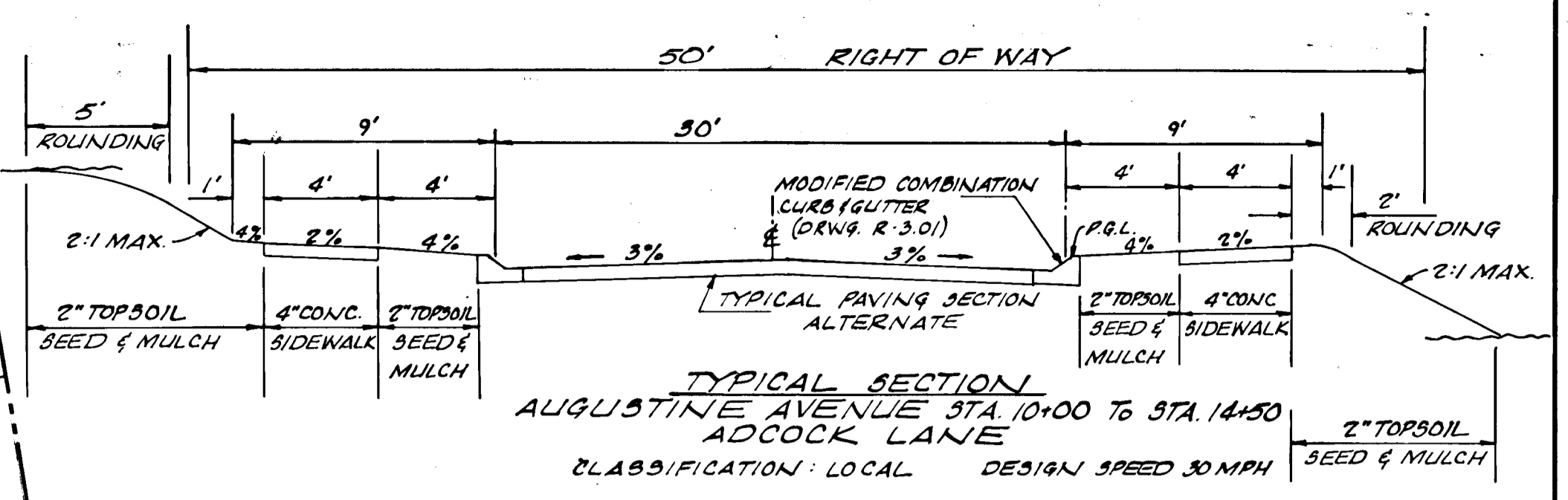
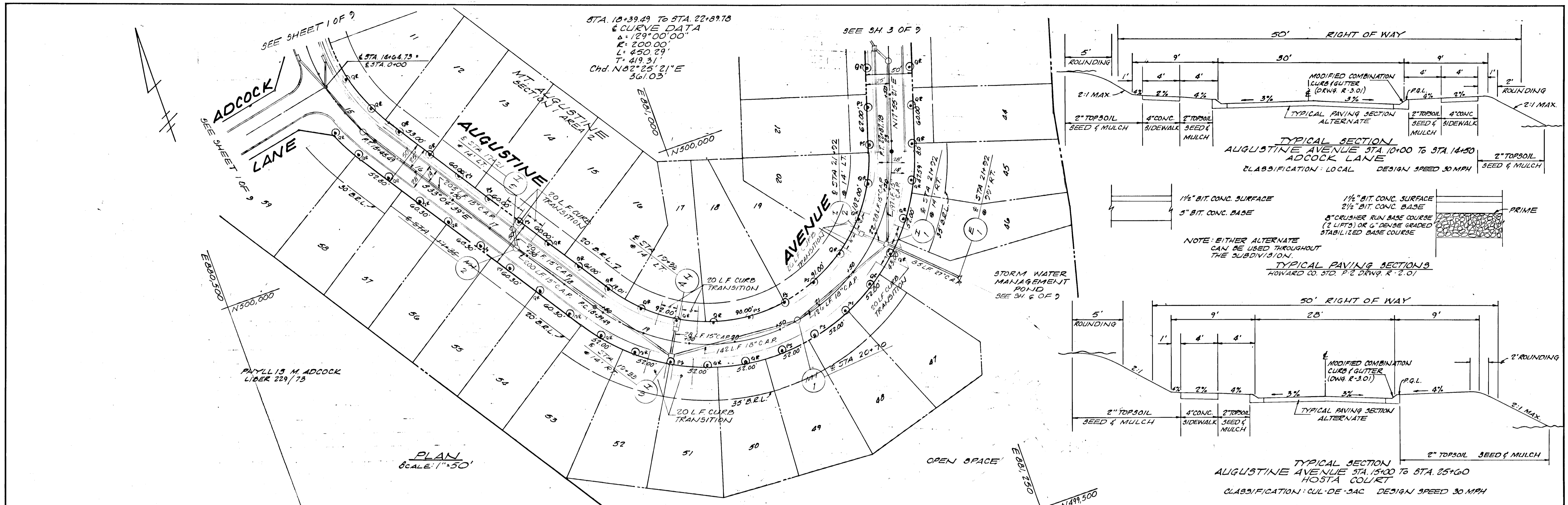


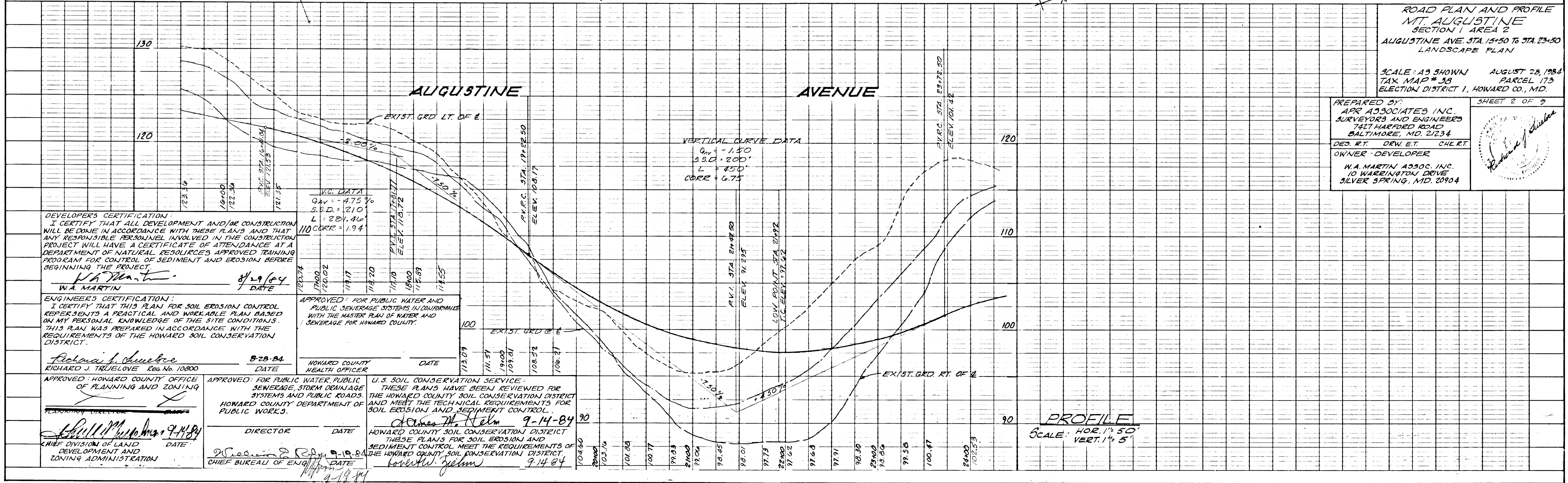
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 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
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 NOTE BOOK: \_\_\_\_\_  
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PLAN  
 SCALE: 1"=50'

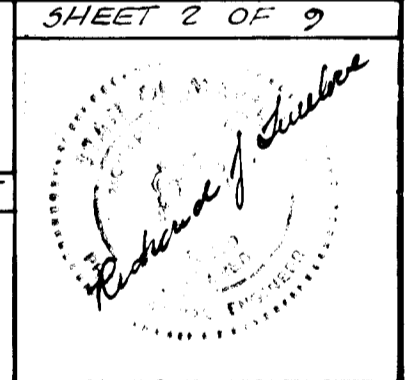
PROFILE  
 SCALE: HOR. 1"=50'  
 VERT. 1"=5'



ROAD PLAN AND PROFILE  
 MT. AUGUSTINE  
 SECTION 1 AREA 2  
 AUGUSTINE AVE. STA. 15+50 TO STA. 25+50  
 LANDSCAPE PLAN

SCALE: AS SHOWN AUGUST 28, 1984  
 TAX MAP # 38 PARCEL 173  
 ELECTION DISTRICT 1, HOWARD CO., MD.

PREPARED BY:  
 APR ASSOCIATES INC.  
 SURVEYORS AND ENGINEERS  
 7427 HARFORD ROAD  
 BALTIMORE, MD. 21234  
 DES. RT. DRW. E.T. CHL.R.T.  
 OWNER - DEVELOPER  
 W.A. MARTIN ASSOC. INC.  
 10 WASHINGTON DRIVE  
 SILVER SPRING, MD. 20904



DEVELOPER'S CERTIFICATION:  
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE IN ACCORDANCE WITH THESE PLANS 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 CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.  
 W.A. MARTIN  
 8/29/84  
 DATE

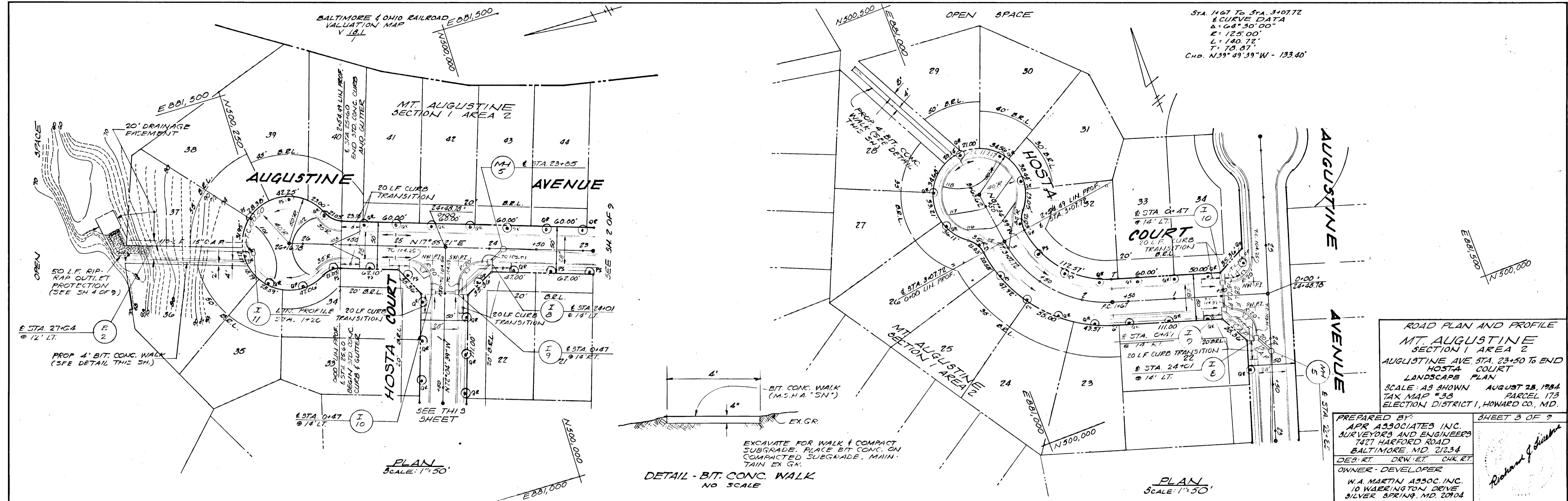
ENGINEER'S CERTIFICATION:  
 I CERTIFY THAT THIS PLAN FOR SOIL EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
 Richard J. Truelove  
 8-28-84  
 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.  
 HOWARD COUNTY HEALTH OFFICER  
 DATE

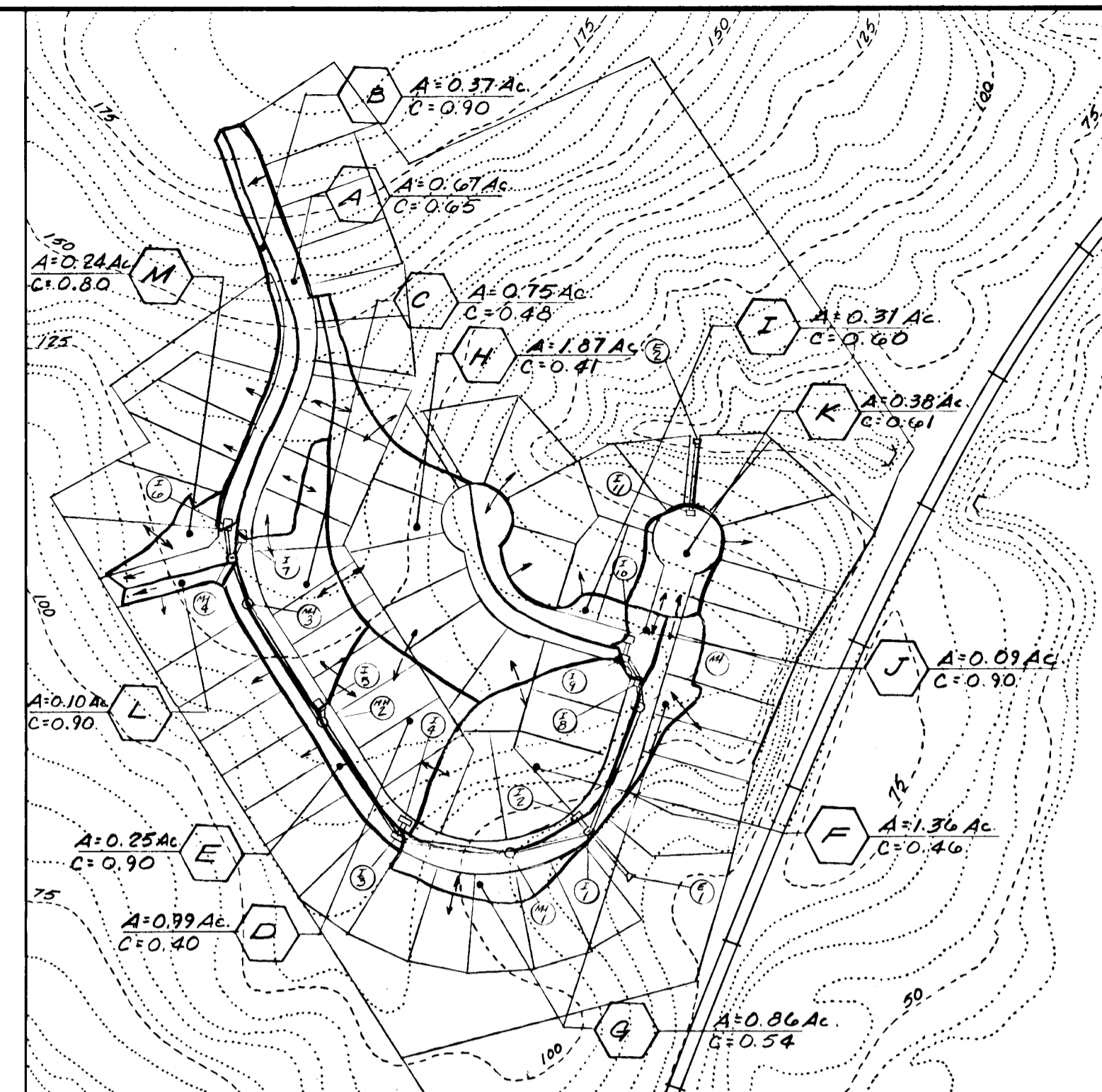
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 DATE  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DATE  
 APPROVED: U.S. SOIL CONSERVATION SERVICE  
 THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.  
 James M. Helm  
 9-14-84  
 DATE  
 APPROVED: HOWARD COUNTY SOIL CONSERVATION DISTRICT  
 THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
 9-14-84  
 DATE

DATE	
BY	
REVISIONS	
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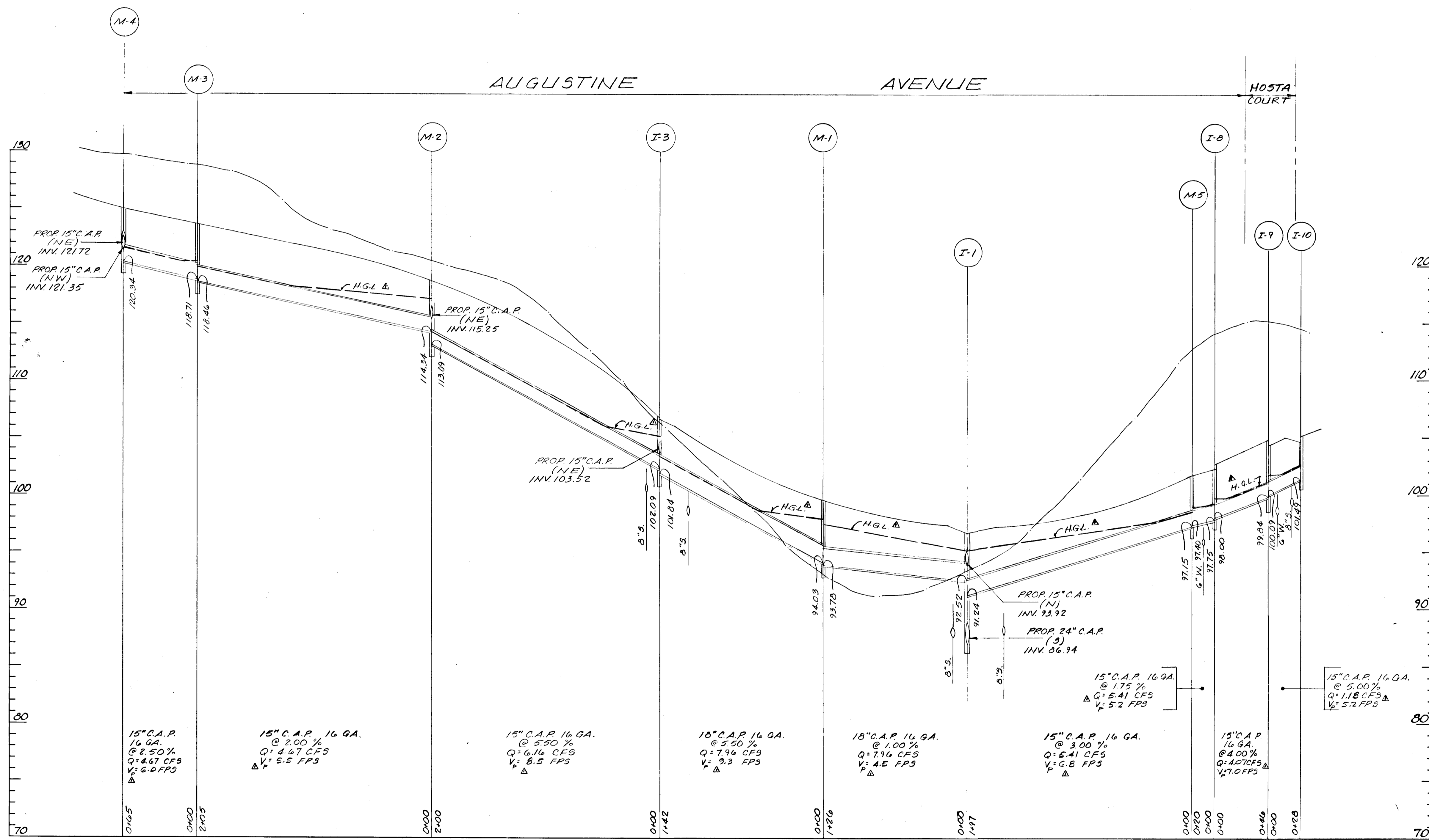
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<p><b>DEVELOPER'S CERTIFICATION:</b> I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE IN ACCORDANCE WITH THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.</p> <p><i>W.A. Martin</i> 8/29/84 W.A. MARTIN DATE</p>		<p><b>ENGINEER'S CERTIFICATION:</b> I CERTIFY THAT THIS PLAN FOR SOIL EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.</p> <p><i>Richard J. Truelove</i> 8-28-84 RICHARD J. TRUVELOVE Reg. No. 10800 DATE HOWARD COUNTY HEALTH OFFICER</p>	
<p><b>APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING</b></p> <p><i>[Signature]</i> 9-14-84 DIRECTOR DATE CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION</p>		<p><b>APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS</b></p> <p><i>[Signature]</i> 9-14-84 DIRECTOR DATE CHIEF BUR. OF ENGINEERING</p>	
<p><b>U.S. SOIL CONSERVATION SERVICE:</b> THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.</p> <p><i>James M. Hellen</i> 9-14-84 HOWARD COUNTY SOIL CONSERVATION DISTRICT DISTRICT PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT. <i>Kenneth W. Zelman</i> 9-14-84</p>		<p><b>APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.</b></p>	



DRAINAGE AREA MAP  
SCALE: 1" = 200'



PROFILE  
SCALE: HOR. 1" = 50'  
VERT. 1" = 5'

STRUCTURE SCHEDULE						
NO.	TYPE	INV. IN	INV. OUT	TOP ELEV.	REMARKS	
I-1	DOUBLE TYPE 'B' COMB. INLET	93.92	86.94	97.62	PARALLEL TO CURB DWG # 9 D - 4.34	
I-2	"	-	94.20	97.62	"	
I-3	"	103.52	101.84	101.83	106.33	"
I-4	"	-	103.80	106.23	106.23	"
I-5	"	-	115.45	119.30	119.30	"
I-6	"	-	122.67	126.51	126.51	"
I-7	"	-	123.67	127.14	127.14	"
I-8	"	95.00	97.75	102.53	"	
I-9	"	100.09	99.84	104.16	105.01	"
I-10	"	-	101.49	104.81	105.17	"
I-11	"	-	96.40	100.50	100.50	"
E-1	CORR. ALUM. END SECTION	80.14	79.42	-	DRWG # 5 D - 5.61	
E-2	TYPE 'C' ENDWALL	70.00	70.00	72.00	DRWG # 5 D - 5.21	
MH 1	STD. PRECAST MANHOLE	94.03	93.78	100.56	DRWG # G - 5.12	
MH 2	STD. PRECAST SHALLOW MH	114.34	113.09	118.61	"	
MH 3	"	118.71	118.46	123.76	"	
MH 4	"	121.72	120.34	125.10	"	
MH 5	"	97.40	97.15	101.98	"	

REV 11-84 STATE HEALTH DEPT. CMTS

**STORM DRAINS**  
**MT. AUGUSTINE**  
**SECTION 1 AREA 2**  
**AUGUSTINE AVE. - STORM DRAIN PROFILE**  
**STRUCTURE SCHEDULE - DRAINAGE AREA MAP**

SCALE: AS SHOWN  
AUGUST 25, 1984  
TAX MAP # 33 PARCEL 173  
ELECTION DISTRICT 1 HOWARD COUNTY, MD.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

PREPARED BY:  
APR ASSOCIATES, INC.  
SURVEYORS AND ENGINEERS  
7427 HARFORD ROAD  
BALTIMORE, MARYLAND  
21234

HOWARD COUNTY, HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

DEVELOPER'S CERTIFICATION:  
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE IN ACCORDANCE WITH THESE PLANS 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 CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

*W.A. Martin*  
W.A. MARTIN  
8/24/84  
DATE

ENGINEER'S CERTIFICATION:  
I CERTIFY THAT THIS PLAN FOR SOIL EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Richard J. Teulove*  
RICHARD J. TEULOVE Reg. No. 10800  
8-28-84  
DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

*William E. Peltz*  
WILLIAM E. PELTZ  
9-19-84  
CHIEF BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

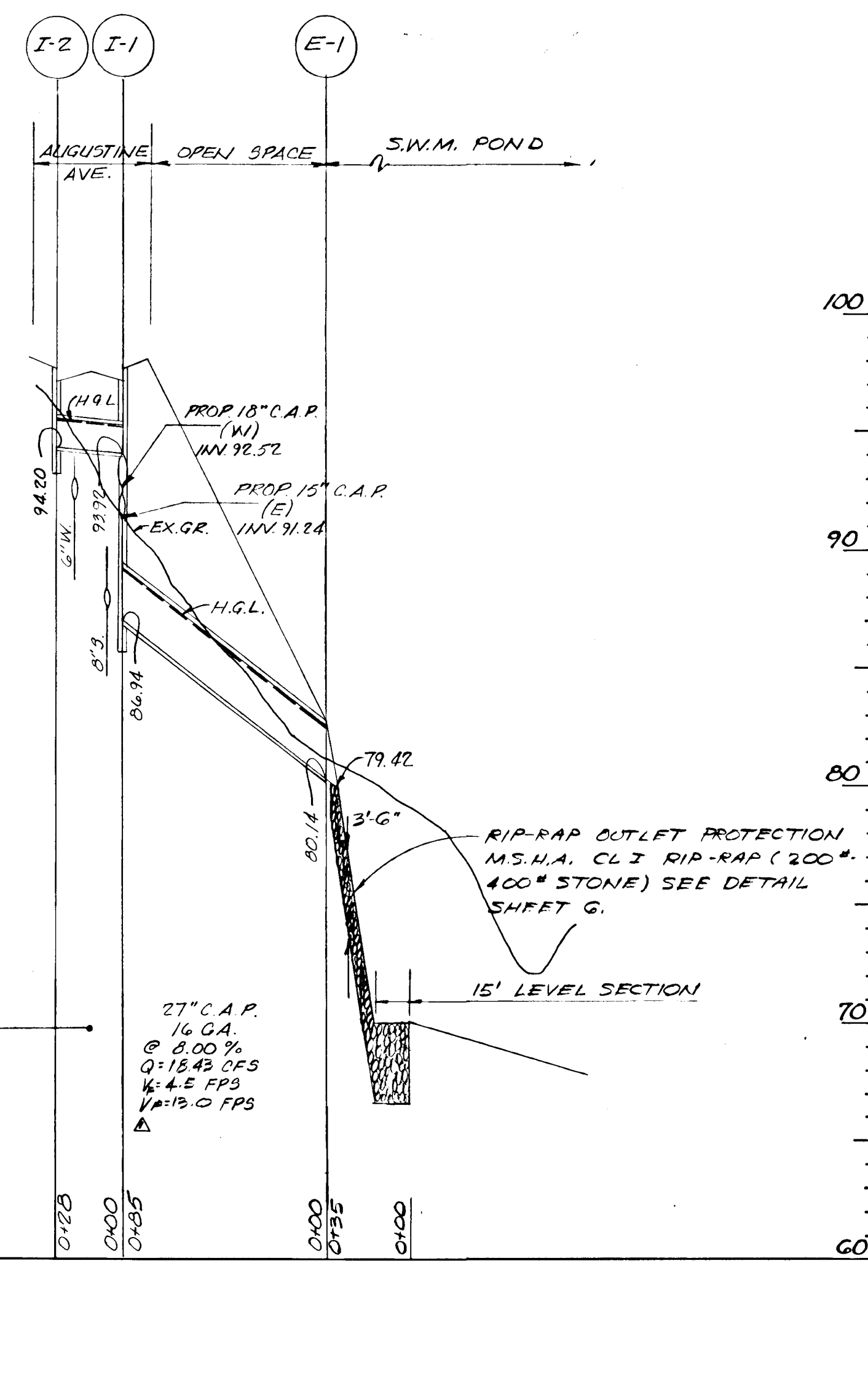
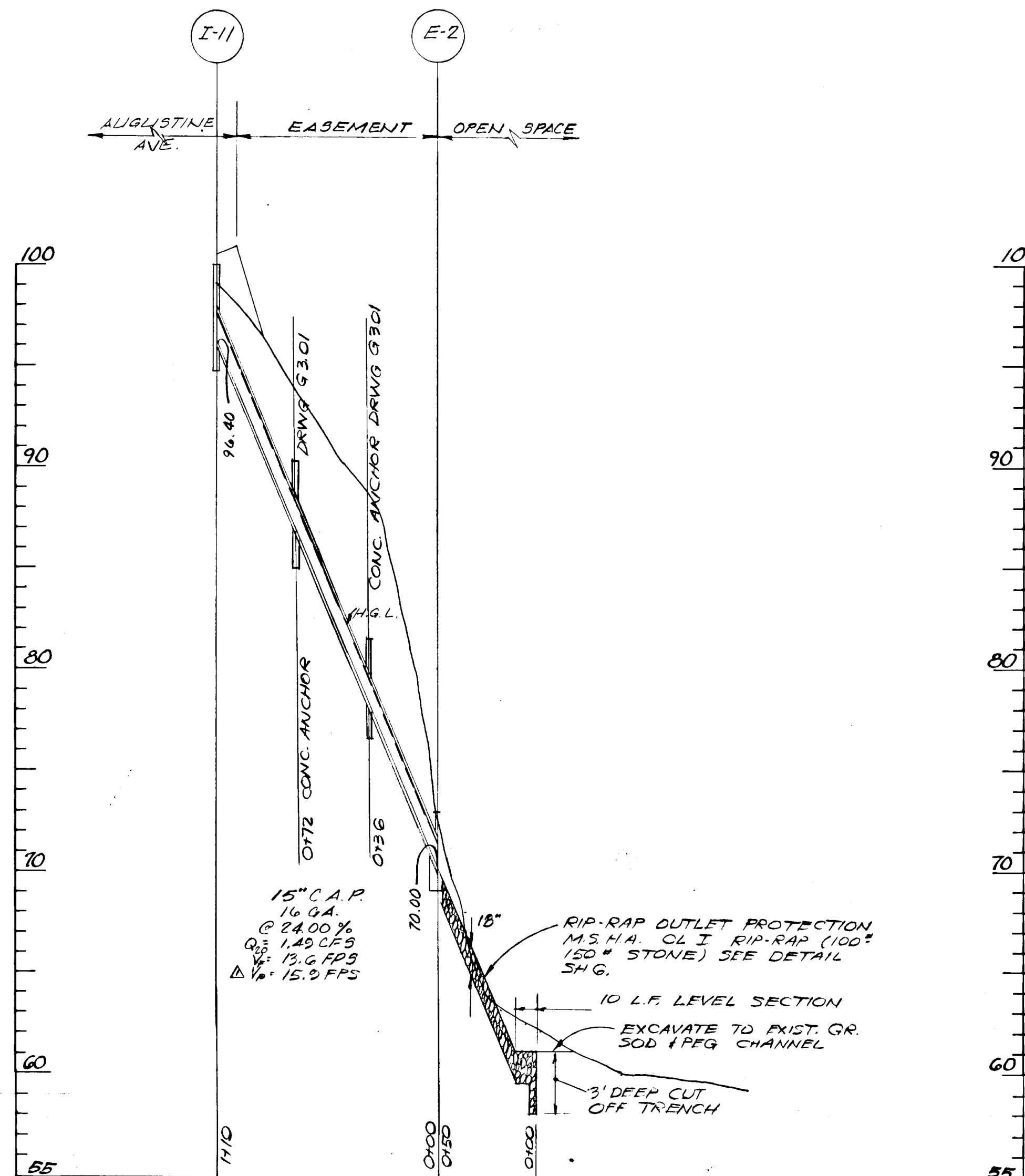
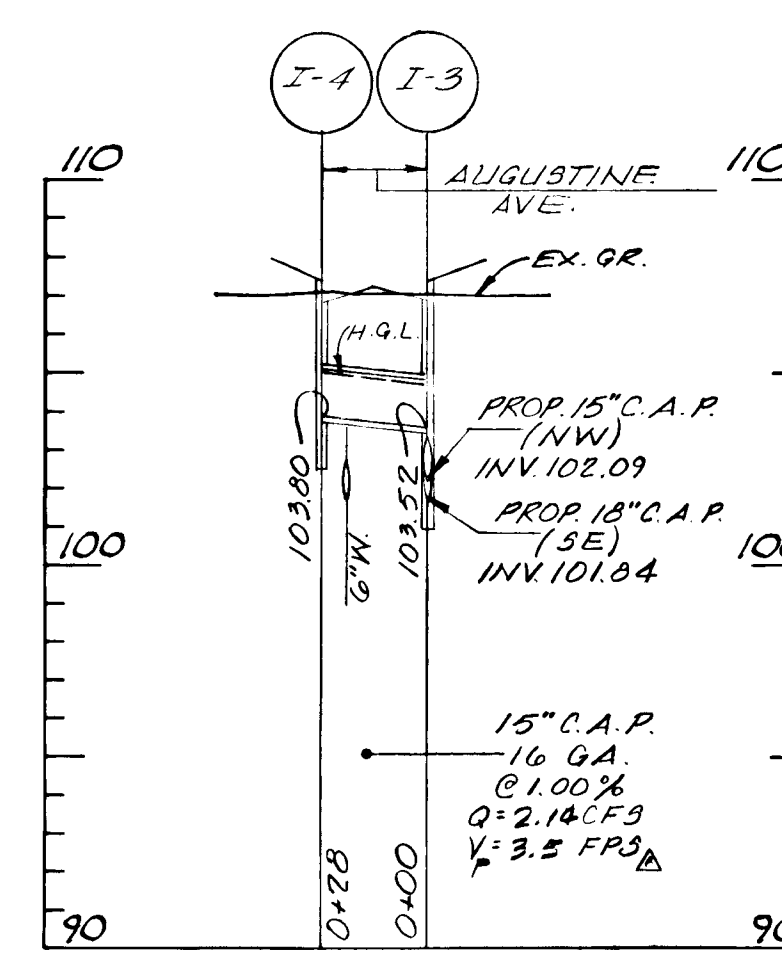
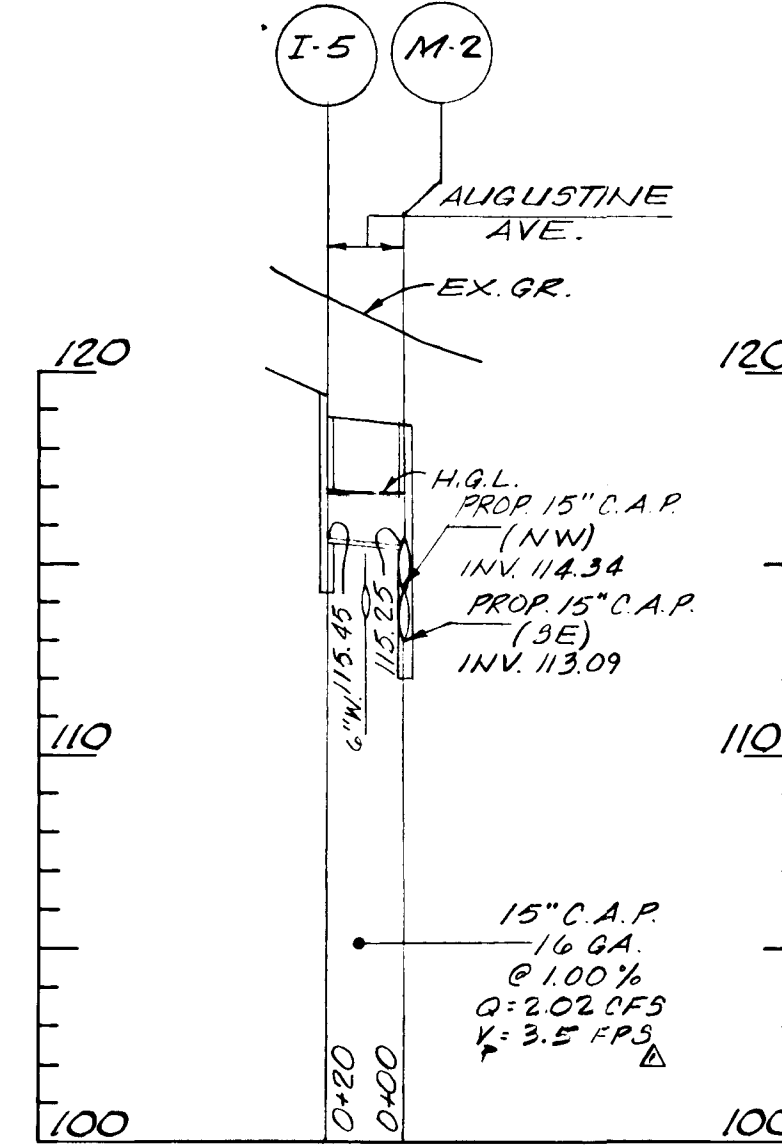
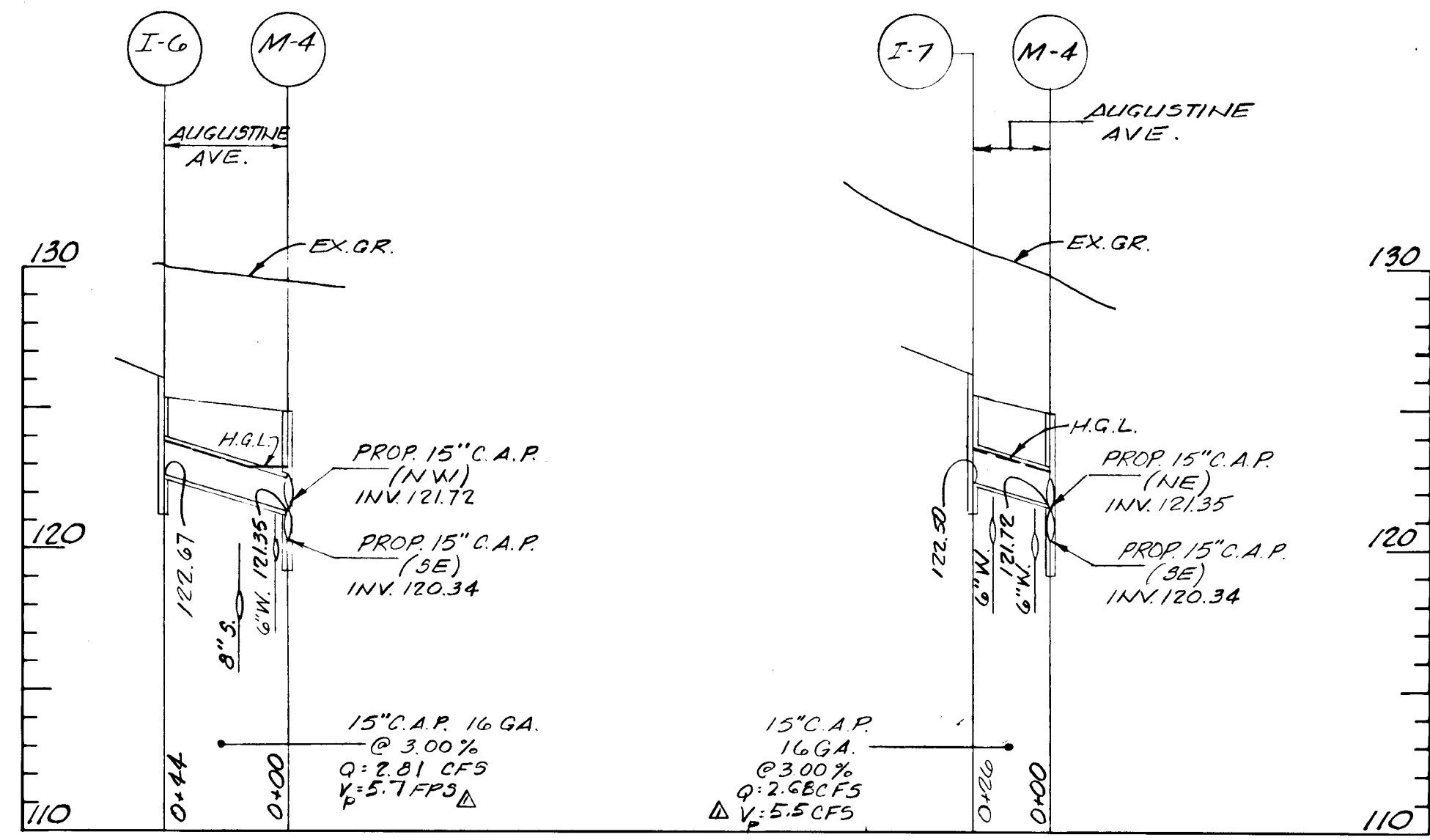
*John W. Martin*  
JOHN W. MARTIN  
9-14-84  
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

U.S. SOIL CONSERVATION SERVICE:  
THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

*Robert J. Selman*  
ROBERT J. SELMAN  
9-14-84

HOWARD COUNTY SOIL CONSERVATION DISTRICT  
THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

DESIGNED BY R.J.T.  
DRAWN BY E.L.T.  
PROJECT NO.  
DATE  
SCALE: AS SHOWN  
SHEET NO. 4 OF 9



REV 11-84 STATE HEALTH DEPT CMTS.

**STORM DRAINS**  
**MT. AUGUSTINE**  
**SECTION 1 AREA 2**  
**STORM DRAINS - AUGUSTINE AVE.**

SCALE: AS SHOWN  
 TAX MAP #30  
 ELECTION DIST. 1

AUGUST 28, 1984  
 PARCEL 173  
 HOWARD COUNTY, MARYLAND

PREPARED BY:  
 APR ASSOCIATES, INC.  
 SURVEYORS AND ENGINEERS  
 7427 HARFORD ROAD  
 BALTIMORE, MARYLAND  
 21234

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

HOWARD COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

DEVELOPERS CERTIFICATION:  
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE IN ACCORDANCE WITH THESE PLANS 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 CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

*W.A. Martin* 8/29/84  
 W.A. MARTIN DATE

ENGINEERS CERTIFICATION:  
 I CERTIFY THAT THIS PLAN FOR SOIL EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Richard J. Truelove* 8-28-84  
 RICHARD J. TRUELOVE Reg. No. 10800 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

*W. J. ...* 9-19-84  
 CHIEF BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

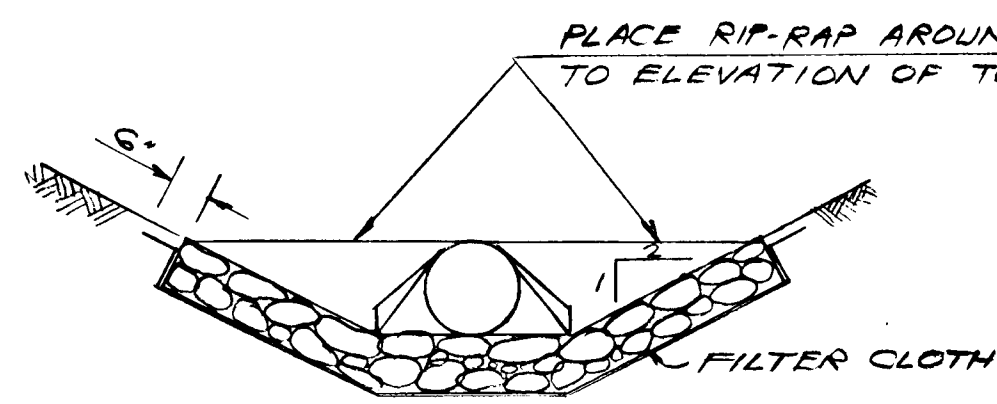
*...* 9-14-84  
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

U.S. SOIL CONSERVATION SERVICE:  
 THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

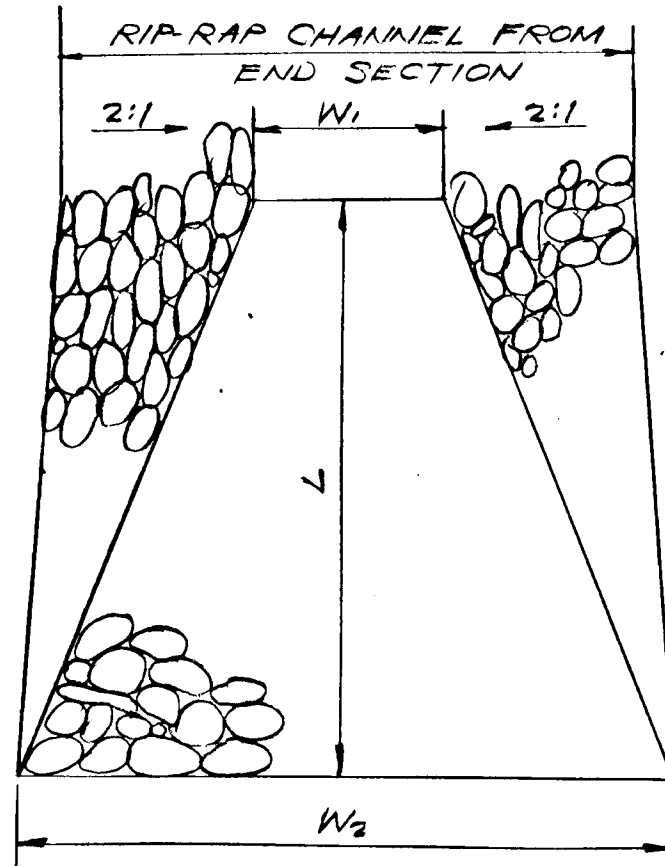
*...* 9-14-84  
 HOWARD COUNTY SOIL CONSERVATION DISTRICT  
 THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
*...* 9-14-84

DESIGNED BY: R.J.T.  
 DRAWN BY: E.L.T.  
 PROJECT NO. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 SCALE: \_\_\_\_\_  
 SHEET NO. 5 OF 9

#187



DETAIL AT END SECTION



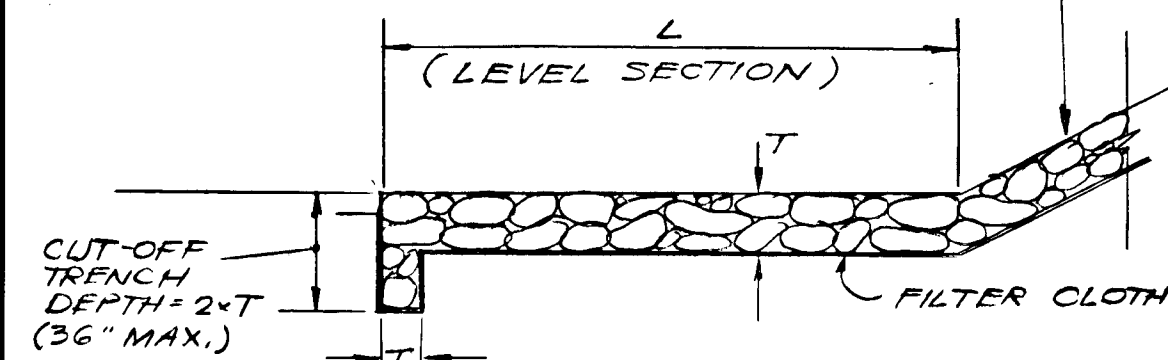
PLAN VIEW

APRON DIMENSIONS

STRUCTURE	E-1	E-2
PIPE DIA.	27"	15"
W1	5'	2'-6"
W2	17'-3"	11'-3"
L	15'	10'
T	3'-6"	1'-6"
RIP-RAP	200" x 100" (J <sub>50</sub> = 18")	100" x 150" (J <sub>50</sub> = 9")

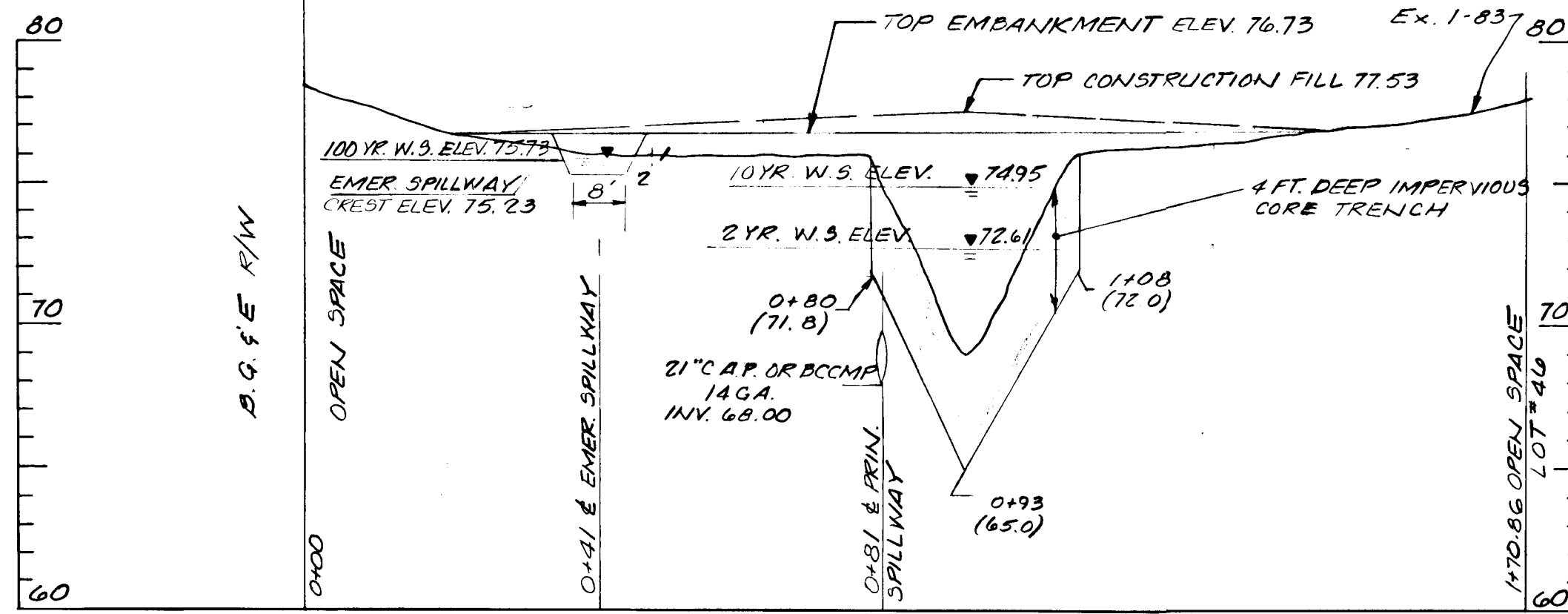
NOTE: RIP-RAP SHALL MEET THE REQUIREMENTS OF M.S.H.A. SPECIFICATIONS. SIZE SHALL BE AS INDICATED ABOVE.

RIP-RAP CHANNEL FROM END SECTION

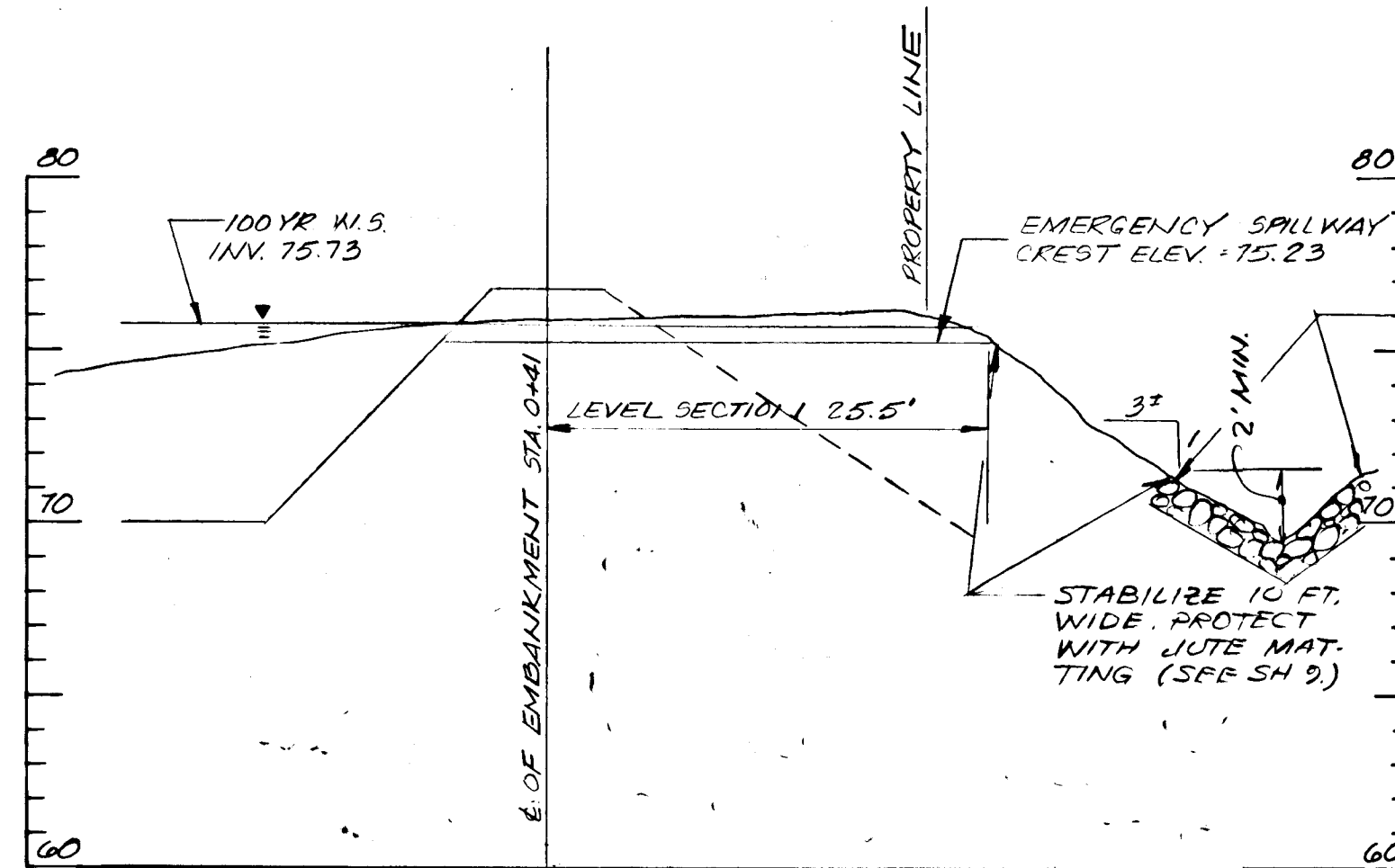


PROFILE ALONG  $\frac{1}{2}$

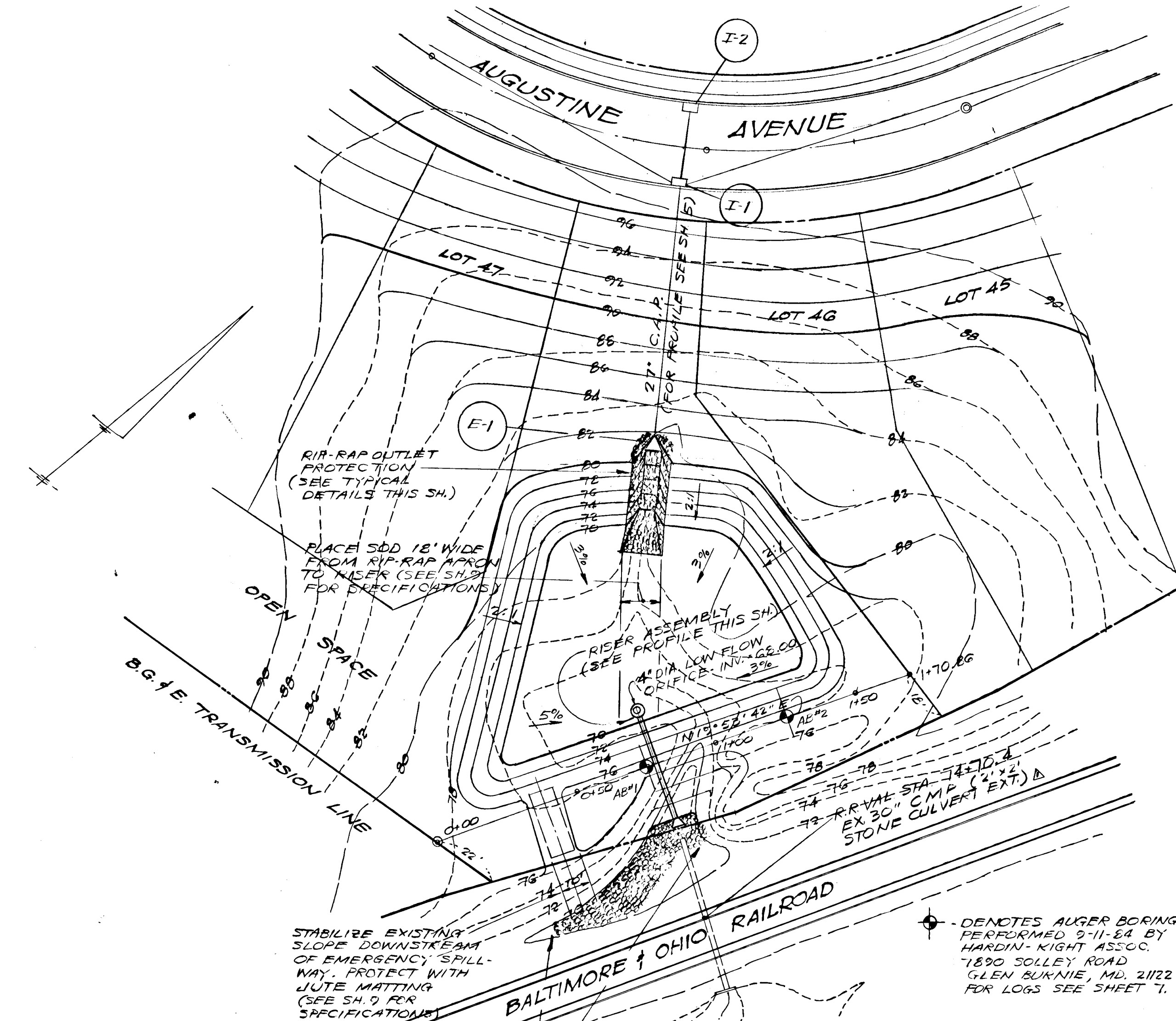
DETAIL - STORM DRAIN RIP-RAP OUTLET PROTECTION



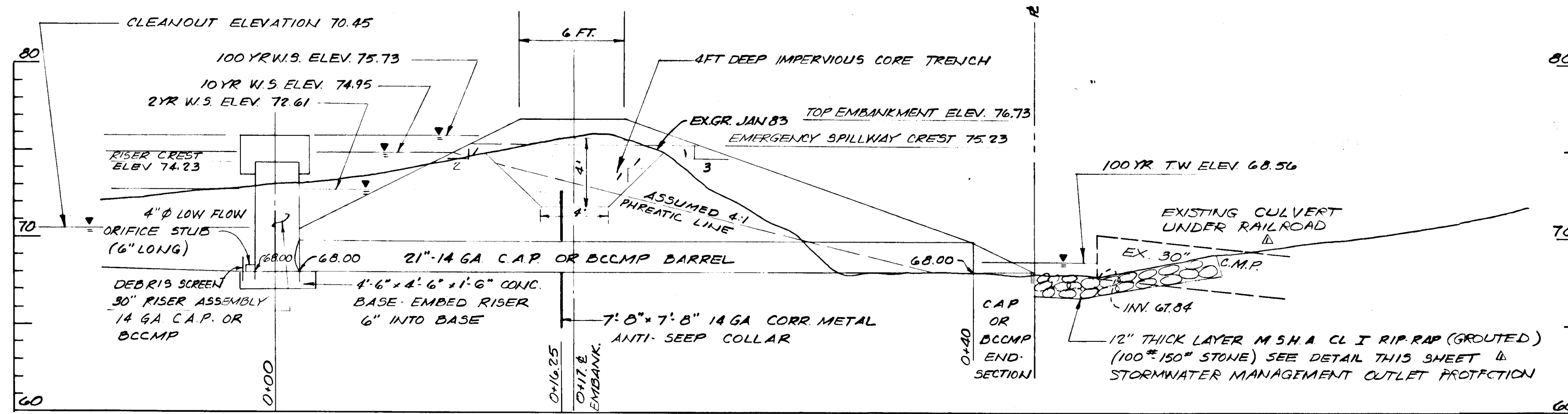
CROSS SECTION ALONG  $\frac{1}{2}$  OF FILL (LOOKING UPSTREAM) SCALE: HOR. 1" = 20' VERT. 1" = 5'



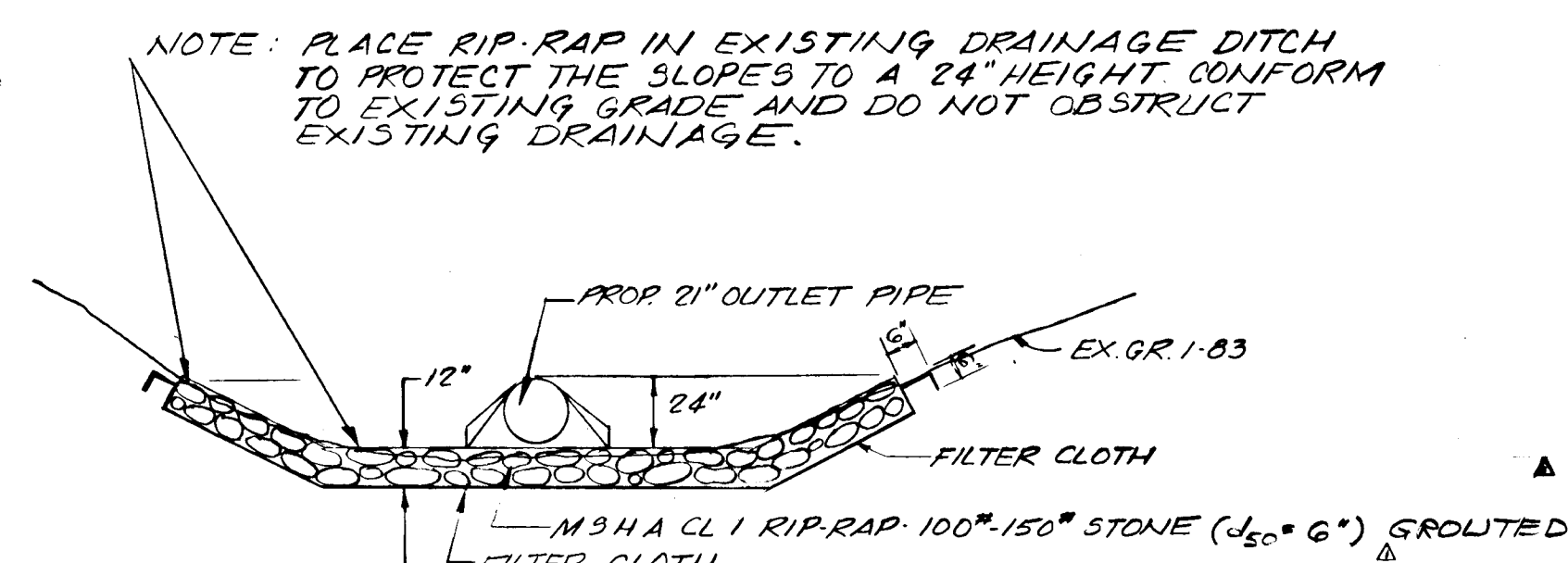
PROFILE ALONG EMERGENCY SPILLWAY SCALE: HOR. 1" = 10' VERT. 1" = 5'



STORMWATER MANAGEMENT DETENTION POND SCALE: 1" = 30'



PROFILE OF PRINCIPAL SPILLWAY SCALE 1" = 5'



STORMWATER MANAGEMENT OUTLET PROTECTION SCALE: 1" = 5'

NOTE: BLOCK LOW FLOW ORIFICE WHEN POND IS USED AS A SEDIMENT BASIN SEE DETAIL SHEET 9.

STORM DRAINS  
MT. AUGUSTINE SECTION 1 AREA 2  
STORMWATER MANAGEMENT PLAN AND DETAILS

SCALE: AS SHOWN AUGUST 28, 1984  
TAX MAP #30 PARCEL 173  
ELECTION DIST. 1 HOWARD COUNTY, MARYLAND

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

PREPARED BY:  
APR ASSOCIATES, INC.  
SURVEYORS AND ENGINEERS  
7427 HARFORD ROAD  
BALTIMORE, MARYLAND 21234

HOWARD COUNTY HEALTH OFFICER DATE

DEVELOPER'S CERTIFICATION:  
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, 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 WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

W.A. MARTIN DATE 8/29/84

ENGINEER'S CERTIFICATION:  
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

RICHARD J. TRUDELLOVE Reg. No. 10800 DATE 8-25-84

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

DATE 9-14-84

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

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

DATE 9-14-84

HOWARD SOIL CONSERVATION DISTRICT

DESIGNED BY: R.J.T.  
DRAWN BY: E.L.T.  
PROJECT NO.  
DATE:  
SCALE: AS SHOWN  
SHEET NO. 6 OF 9

#87

These specifications are appropriate to ponds within the scope of the Standard for practice 378.

I. SITE PREPARATION

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1.

Areas to be covered by the pond or reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

II. EARTH FILL

Material

The fill material shall be taken from approved designated borrow area or areas. It shall be free of roots, stumps, wood, rubbish, oversize stones, frozen or other objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height all along the length of the embankment shall be increased above the design elevation (including freeboard) as shown on the plans.

Placement

Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in 8-inch maximum thickness (before compaction) layers which are to be continuous over the entire length of the fill. The most porous borrow material shall be placed in the downstream portions of the embankment.

Compaction

The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction can be obtained with the equipment used.

Where a minimum required density is specified, each layer of fill shall be compacted as necessary to obtain that density and is to be certified by the Engineer.

Cutoff Trench

Where specified, a cutoff trench shall be excavated along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be as shown on the drawings, with the minimum width being four feet. The depth shall be at least four feet or as shown on the plans. The side slopes of the cutoff trench shall be 1 to 1 or flatter. The backfill material for the cutoff trench shall be the most impervious material available and shall be compacted with equipment or rollers to assure maximum density and minimum permeability.

III. STRUCTURAL BACKFILL

Backfill material shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other compaction equipment adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe unless there is a compacted fill of twenty-four inches or greater over the structure or pipe.

IV. PIPE CONDUITS

All pipes shall be circular in cross section.

A. Corrugated Metal Pipe

1. Materials - (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-190 Type A with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.

Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch (10 mil) on both sides of the pipe. The following coatings are commercially available: Nexon, Plasti-Cote, Blac-Klad, and Beth-Cu-Loy. Coated corrugated steel pipe shall meet the requirements of AASHTO M-245 and M-246.

Materials - (Aluminized Steel Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274-791 with watertight coupling bands or flanges.

Materials - (Aluminum Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211 with watertight coupling bands or flanges. Coupling bands, anti-seep collars, end sections, etc. must be composed of the same material as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer. Hot dip galvanized bolts may be used for connections. The pH of the surrounding soils shall be less than 9 and greater than 4.

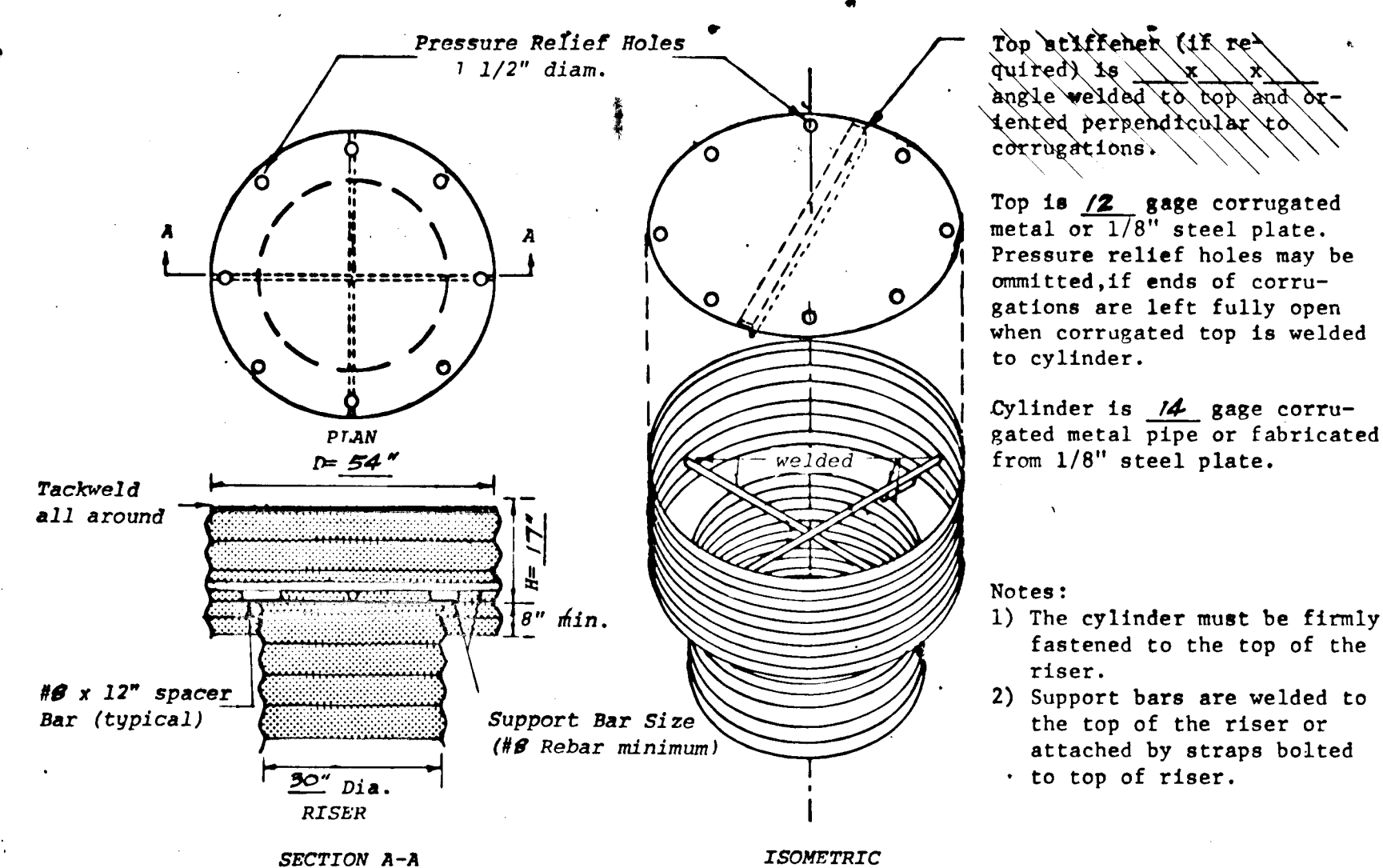
- Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Watertight coupling bands or flanges shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Dimple bands are not considered to be watertight.
- Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
- Laying pipe - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.
- Backfilling shall conform to structural backfill as shown above.
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

V. STABILIZATION

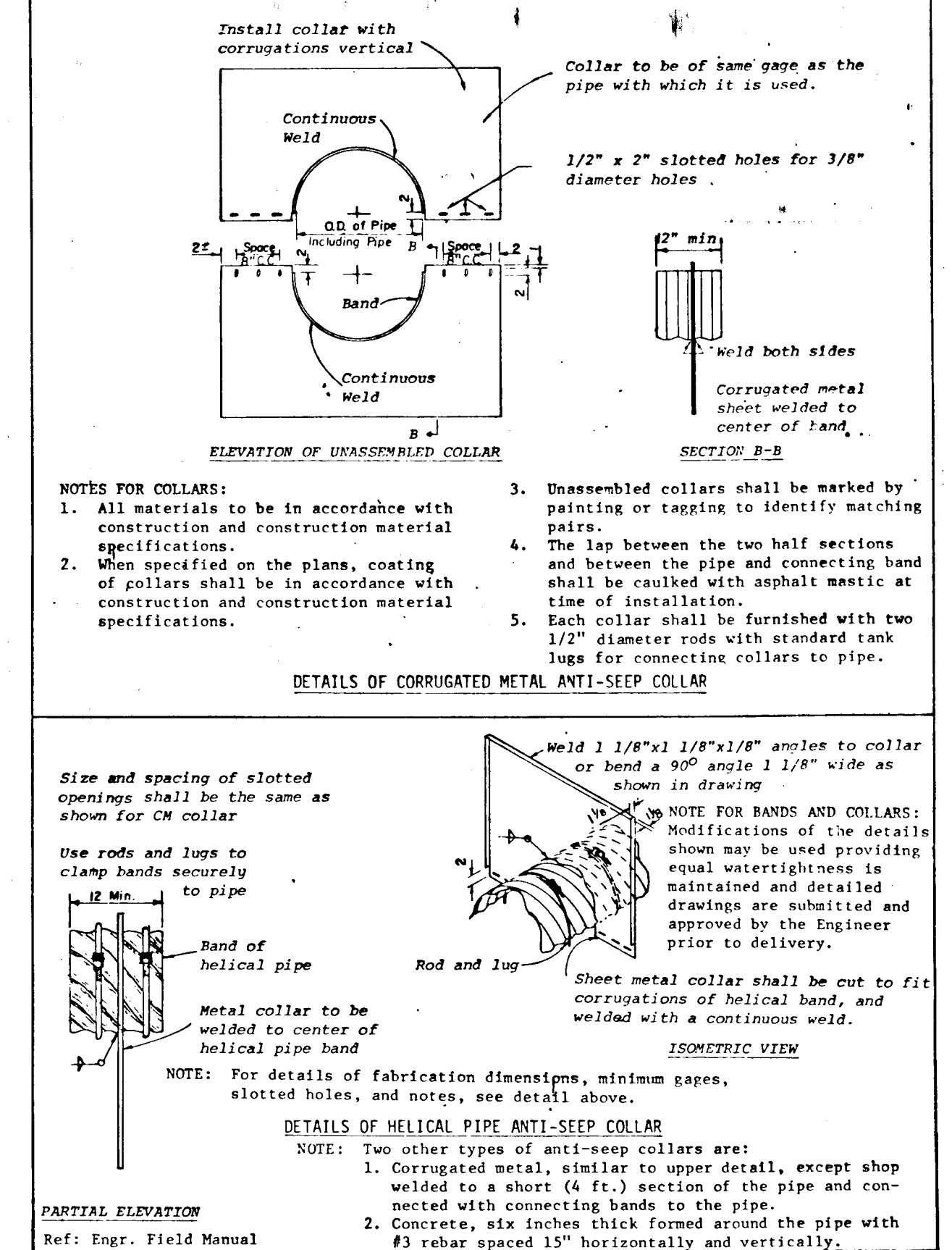
All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, soil and mulch, fertilizing (if required) in accordance with the liming, fertilizing and mulching (if required) in accordance with the vegetative treatment specifications or as shown on the accompanying drawings.

VI. EROSION AND SEDIMENT CONTROL

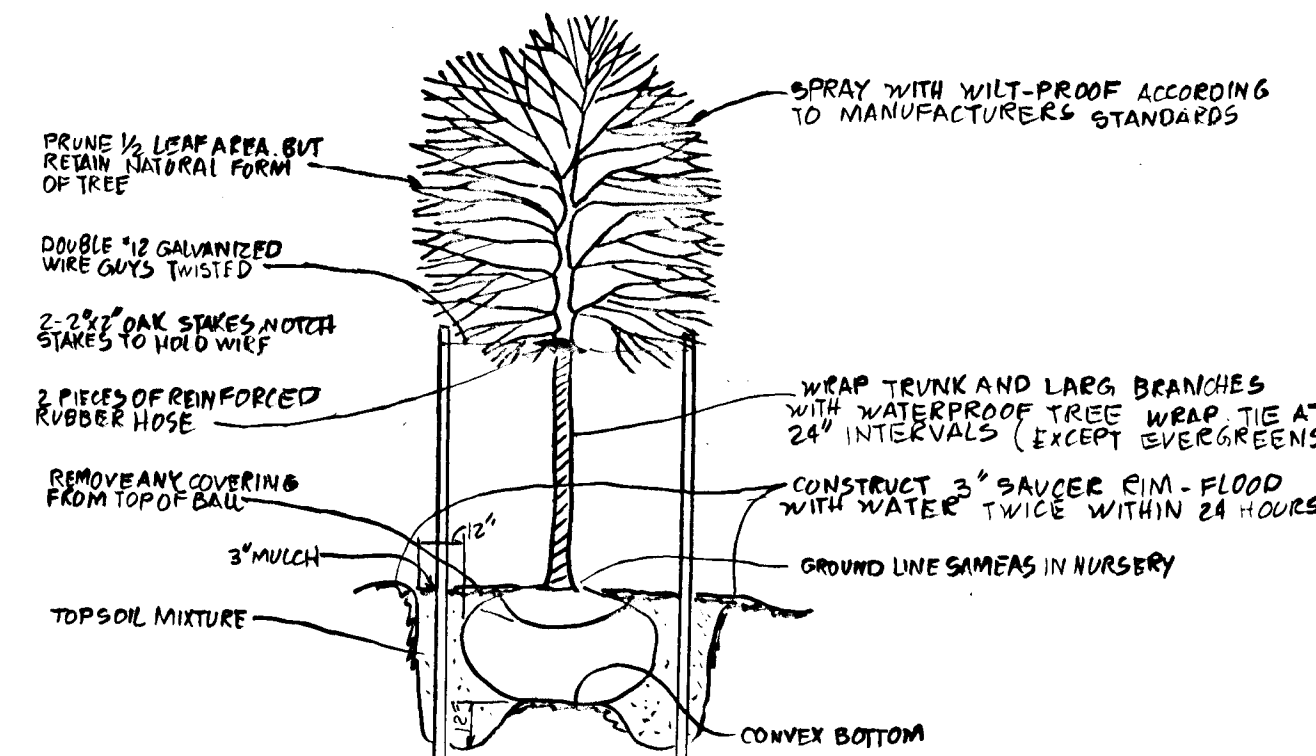
Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction process.



CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE (not to scale)



DETAILS OF HELICAL PIPE ANTI-SEEP COLLAR

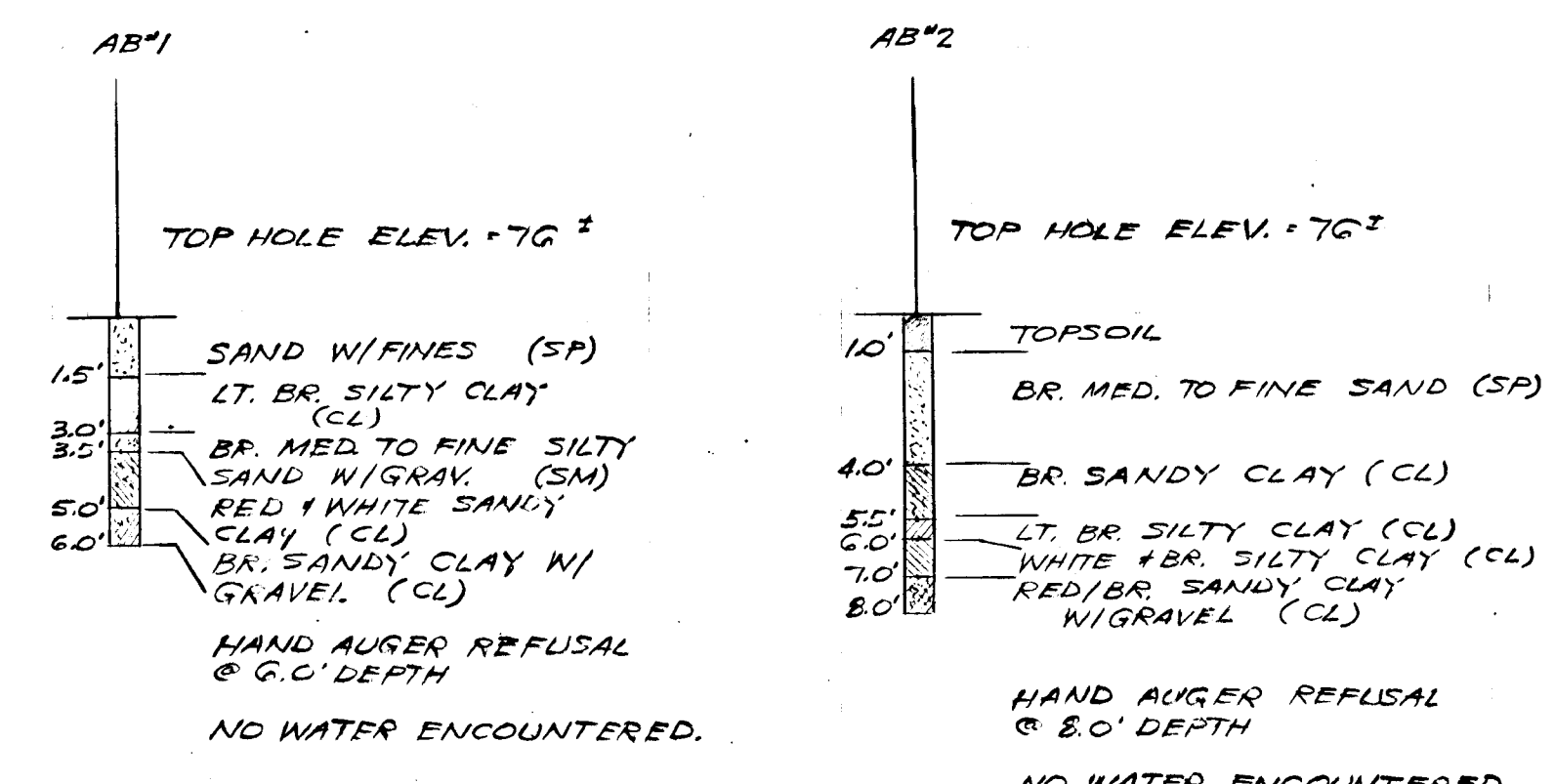


TREE PLANTING DETAIL

PLANT LIST

SYM.	QUAN.	NAME	SIZE	REMARKS
PS	40	PINUS STROBUS - Eastern White Pine	6'-8' Ht. 2 1/2" Col.	B & B Full Head Unshaded
QR	84	QUERCUS BOREALIS - Northern Red Oak	13'-15' Ht. 2 1/2"-3" Col.	B & B Full Head

NOTE:  
ALL Trees of 2 1/2" or better caliper within 30' of public road frontage are to be preserved. These existing trees are preserved as substitute for new street trees.



NOTE: UNIFIED SOIL CLASSIFICATIONS SHOWN IN PARENTHESIS ARE BASED ON A VISUAL CLASSIFICATION BY HARDING-KIGHT ASSOC.

SOIL BORING LOGS

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

*Joseph M. Helm* 9-14-84  
U.S. SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD S.C.D.

*Richard J. Truelove* 9-14-84  
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

*Richard J. Truelove* DATE

STORM DRAINS  
MT. AUGUSTINE  
SECTION 1 AREA 2  
STORMWATER MANAGEMENT  
CONSTRUCTION SPECIFICATIONS  
AND DETAILS  
SCALE: AS SHOWN  
TAX MAP # 30  
ELECTION DIST. 1  
AUGUST 28, 1984  
PARCEL 173  
HOWARD CO. MARYLAND

PREPARED BY:  
A.P.R. ASSOCIATES, INC.  
SURVEYORS AND ENGINEERS  
7427 HARFORD ROAD  
BALTIMORE, MARYLAND  
21234

DEVELOPER'S CERTIFICATION:  
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATION OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE DESIGNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

*W.A. Martin* 8/29/84  
DATE

ENGINEER'S CERTIFICATION:  
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

*Richard J. Truelove* 8-29-84  
RICHARD J. TRUETOVE Reg. No. 10800 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*Richard J. Truelove* 9-18-84  
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

*Richard J. Truelove* 9-18-84  
DATE

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

HOWARD COUNTY SOIL CONSERVATION DISTRICT: THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

DESIGNED BY: R.J.T.  
DRAWN BY:  
PROJECT NO.  
DATE  
SCALE: AS SHOWN  
SHEET NO. 7 OF 9

# 87

**LEGEND**

- 100 --- EXISTING CONTOURS
- 100 --- PROPOSED CONTOURS
- LIMIT OF CLEARING AND GRADING
- DRAINAGE AREA DELINEATION
- FOR PLAN SYMBOLS OF SEDIMENT CONTROL DEVICES SEE DETAILS SHEET 2 OF 3...

**SEDIMENT TRAP NO 3**

STONE OUTLET 4'-12"  
 DRAINAGE AREA 2.1 AC  
 VOLUME REQUIRED 2760 C.F.  
 OUTLET ELEV. 90  
 STONE CREST ELEV. 92  
 EMBANKMENT ELEV. 94  
 BOTTOM ELEV. 89  
 CLEANOUT ELEV. 91  
 BOTTOM DIM. 25'x25'  
 VOL. PROVIDED 4356 C.F.

**SEDIMENT TRAP NO 5**

STONE OUTLET 4'-12"  
 DRAINAGE AREA 1.4 AC  
 VOLUME REQ. 2520 C.F.  
 OUTLET ELEV. 88  
 STONE CREST ELEV. 89  
 EMBANKMENT ELEV. 90  
 BOTTOM ELEV. 86  
 CLEANOUT ELEV. 87.5  
 BOTTOM DIM. 25'x25'  
 VOL. PROVIDED 2863 C.F.

EXCESS MATERIAL STOCKPILE AREA

**SEDIMENT TRAP NO 4**

STONE OUTLET 4'-16"  
 DRAINAGE AREA 2.3 AC  
 VOLUME REQ'D 4140 C.F.  
 OUTLET ELEV. 78  
 STONE CREST ELEV. 79  
 EMBANKMENT ELEV. 80  
 BOTTOM ELEV. 76  
 CLEANOUT ELEV. 77.5  
 VOL. PROVIDED 5043 C.F.  
 BOTTOM DIM. 35'x35'

INSTALL SOD OUTLET STABILIZATION 20' WIDE TO CONFORM TO EXISTING GROUND. STABILIZE EXISTING DITCH A MINIMUM 2 FOOT DEPTH FOR THE ENTIRE SHOWN

35 L.F. DITCH STABILIZATION (SOD)

**SEDIMENT TRAP NO 3**

STONE OUTLET 4'-16"  
 DRAINAGE AREA 2.8 AC  
 VOLUME REQ. 5040 C.F.  
 OUTLET ELEV. 78  
 STONE CREST ELEV. 79  
 EMBANKMENT ELEV. 80  
 BOTTOM ELEV. 76  
 CLEANOUT ELEV. 77.5  
 BOTTOM DIM. 40'x40'  
 VOLUME PROVIDED 6348 C.F.

TOTAL DISTURBED AREA 11.2 AC  
 AREA TO BE PAVED 1.4 AC  
 AREA TO BE REVEGETATED 9.8 AC

**SEDIMENT TRAP NO 1**

STONE OUTLET 4'-12"  
 DRAINAGE AREA 1.4 AC  
 VOLUME REQUIRED 2510 C.F.  
 OUTLET ELEV. 126  
 STONE CREST ELEV. 127  
 EMBANKMENT ELEV. 128  
 BOTTOM ELEV. 125  
 CLEANOUT ELEV. 125.5  
 BOTTOM DIM. 24'x24'  
 VOLUME PROVIDED 2100 C.F.

**SEDIMENT TRAP NO 2**

STONE OUTLET 4'-6"  
 DRAINAGE AREA 1.0 AC  
 VOLUME REQ. 1800 C.F.  
 OUTLET ELEV. 112  
 STONE CREST ELEV. 115  
 EMBANKMENT ELEV. 116  
 BOTTOM ELEV. 113  
 CLEANOUT ELEV. 114  
 BOTTOM DIM. 4'-0"  
 VOL. PROVIDED 1920 C.F.

**CONSTRUCTION SEQUENCE:**

1. THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS (992 2436) AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING ANY WORK SHOWN HEREON.
2. CLEAR AND GRUB FOR SEDIMENT CONTROL DEVICES ONLY.
3. INSTALL SEDIMENT CONTROL DEVICES EXCEPT INTERCEPTOR SWALE IN MARTIN COURT STABILIZER DIKES AND SEDIMENT TRAPS WITH TEMPORARY SEED.
4. CLEAR AND GRUB ROUGH GRADE SITE. INSTALL INTERCEPTOR SWALE IN MARTIN COURT WHEN FILL BEYOND STA 2+30 IS ABOVE ELEV. 114.
5. INSTALL SEWER WATER & STORM DRAINS. MAINTAIN POSITIVE DRAINAGE TO SEDIMENT CONTROL DEVICES BY BACKFILLING UTILITY TRENCHES AND REPAIRING INTERCEPTOR SWALES AS SOON AS POSSIBLE. BLOCK INLETS AND THE UPSTREAM END OF INCOMPLETE PIPES TO PREVENT SEDIMENT FROM ENTERING SYSTEM. SEE DETAILS SHEET 9.
6. WHEN SEWER REACHES CLEANOUT ELEVATION, PUMP OUT SEDIMENT TRAPS BY CLEANING CLEAR WATER OVER EMBANKMENT, REMOVING SEDIMENT, AND SPREADING ON SITE TO DRY (WITHIN A PROTECTED AREA)
7. REMOVE THE EXISTING SEDIMENT BASIN AT THE REAR OF LOT 37 AS FOLLOWS:
  - a. INSTALL A SILT FENCE OR OTHER APPROVED SEDIMENT CONTROL DEVICE ALONG TOE OF EMBANKMENT.
  - b. PUMP CLEAR WATER OVER EMBANKMENT.
  - c. REMOVE SEDIMENT TO AN AREA WITHIN THE LIMITS OF GRADING AND SPREAD OUT TO DRY.
  - d. REMOVE EXISTING BARKEL AND RISER. GRADE EXISTING EMBANKMENT INTO DEPRESSION LEFT FROM SEDIMENT REMOVAL. MAINTAIN ADEQUATE SLOPE FOR RUN-OFF.
  - e. STABILIZE WITH PERMANENT SEEDING.
  - f. REMOVE SILT FENCE WHEN SEEDING IS ESTABLISHED.
8. FINE GRADE SITE AND STABILIZE WITH PERMANENT SEEDING. ALL AREAS WHICH ARE NOT TO BE PAVED. PLACE A MINIMUM 6 INCH THICK LAYER OF STONE SUBBASE FOR THE FULL WIDTH OF PAVED AREAS. PLACE RIP-RAP OUTLET PROTECTION AT F. 2.
9. REMOVE SEDIMENT CONTROL DEVICES WHEN STABILIZATION IS ESTABLISHED AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR.
10. GRADE FOR STORM WATER MANAGEMENT POND. INSTALL RISER AND BARKEL BLOCK LOW FLOW ORIFICE AS DETAIL (SEE SHEETS C. 1 & 2). INSTALL RIP-RAP OUTLET PROTECTION FOR POND AND BUILD CLEAN CUT ACCUMULATED SEDIMENT AND STABILIZE DISTURBED AREAS WITH SEED (SOD AS INDICATED).
11. INSTALL CURB & GUTTER. REMOVE INLET BLOCKING AND COMPLETE PAVEMENT. INSTALL SIDEWALKS AND STABILIZE ANY SEEDED AREAS WHICH ARE NOT ESTABLISHED.
12. WHEN ENTIRE SITE IS STABILIZED AND ESTABLISHED CLEAN OUT ACCUMULATED SEDIMENT FROM STORM WATER MANAGEMENT POND. STABILIZE AS NEEDED AND REMOVE LOW FLOW ORIFICE.

I AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

W.A. Martin: 8/29/84  
 W.A. MARTIN DATE

**DEVELOPER'S CERTIFICATION:**  
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE IN ACCORDANCE WITH THESE PLANS 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 CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

W.A. Martin: 8/29/84  
 W.A. MARTIN DATE

**ENGINEER'S CERTIFICATION:**  
 I CERTIFY THAT THIS PLAN FOR SOIL EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Richard J. Truelove: 8-28-84  
 RICHARD J. TRUETOVE, Reg. No. 10800 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR DATE  
 W. C. ... 9-14-84  
 CHIEF BUREAU OF ENGINEERING DATE

APPROVED - HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR DATE  
 ... 9-14-84  
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

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

9-14-84  
 HOWARD COUNTY SOIL CONSERVATION DISTRICT  
 THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
 ... 9-14-84

**SEDIMENT CONTROL PLAN  
 MT. AUGUSTINE  
 SECTION 1 AREA 2**

GRADING AND SEDIMENT CONTROL PLAN  
 SCALE: 1" = 50'  
 AUGUST 28, 1984  
 TAX MAP 38 PARCEL 173  
 ELECTION DISTRICT 1 HOWARD CO., MD.

OWNER/DEVELOPER: W.A. MARTIN ASSOCIATES  
 PREPARED BY: W.A. MARTIN ASSOCIATES  
 4727 HARFORD ROAD  
 BALTIMORE, MD 21234  
 TEL: 444-4312

DESIGNED BY: RT  
 DRAWN BY: RT  
 PROJECT NO.: 8-28-84  
 DATE: 8-28-84  
 SCALE: 1" = 50'  
 SHEET NO. 8 OF 9

**DETAILS AND SPECIFICATIONS FOR VEGETATIVE ESTABLISHMENT**

**SITE PREPARATION**

1. Temporary perimeter dikes and silt traps, etc., are to be provided as per this plan prior to grading operations with location adjustments to be made in the field as necessary and to be maintained at the end of working day. The minimum area practical shall be disturbed for the minimum amount of time possible.

**2. Permanent seeding:**

**A. Seedbed preparation:** Area to be seeded shall be loose and friable to a depth of at least 3". The top layer shall be loosened by raking, disking or other acceptable means before seeding occurs. In lieu of soil test results, apply 50 lbs. of dolomitic limestone and 25 lbs. of 10-10-10 fertilizer per 1,000 square feet. Harrow or disk lime and fertilizer into the soil to a depth of at least 3" on slopes flatter than 3:1. No attempt should be made to drag any disked area to make the soil surface smooth after disking.

**B. Seeding:** Apply 5-6 lbs. per 1,000 square feet of Kentucky 31 tall fescue between February 1 and April 30 or between August 15 and October 31. Apply seed uniformly with a cyclone seeder drill, cultipacker seeder or hydroseeder (slurry includes seeds and fertilizer, recommended on steep slopes only) on a moist, firm seedbed. Maximum seed depth should be 1/4" in clayey soils and 1/2" in sandy soils when using other than the hydroseeder method. Irrigate if soil moisture is deficient to support adequate growth, until vegetation is firmly established.

**C. Mulching:** Mulch shall be unchopped, unrotted, small grain straw applied at a rate of 70 to 90 lbs. per 1,000 square feet. Mulch materials shall be relatively free of all kinds of weeds and shall be free of prohibited noxious weeds which are: Canada Thistle, Johnsongrass, and Quackgrass. Spread mulch mechanically or uniformly by hand; mulch anchoring shall be accomplished immediately after mulch placement to minimize loss by wind or water. This may be done by peg and twine method, mulch anchoring tool, netting or liquid mulch binders.

**3. Temporary Seeding:**

Lime: 50 lbs. of dolomitic limestone per 1,000 square feet  
 Fertilizer: 15 lbs. of 10-10-10 per 1,000 square feet  
 Seed: Perennial rye, Italian rye - 0.92 lbs. per 1,000 square feet (Feb. 1 through April 30 or Aug. 15 through Nov. 1)

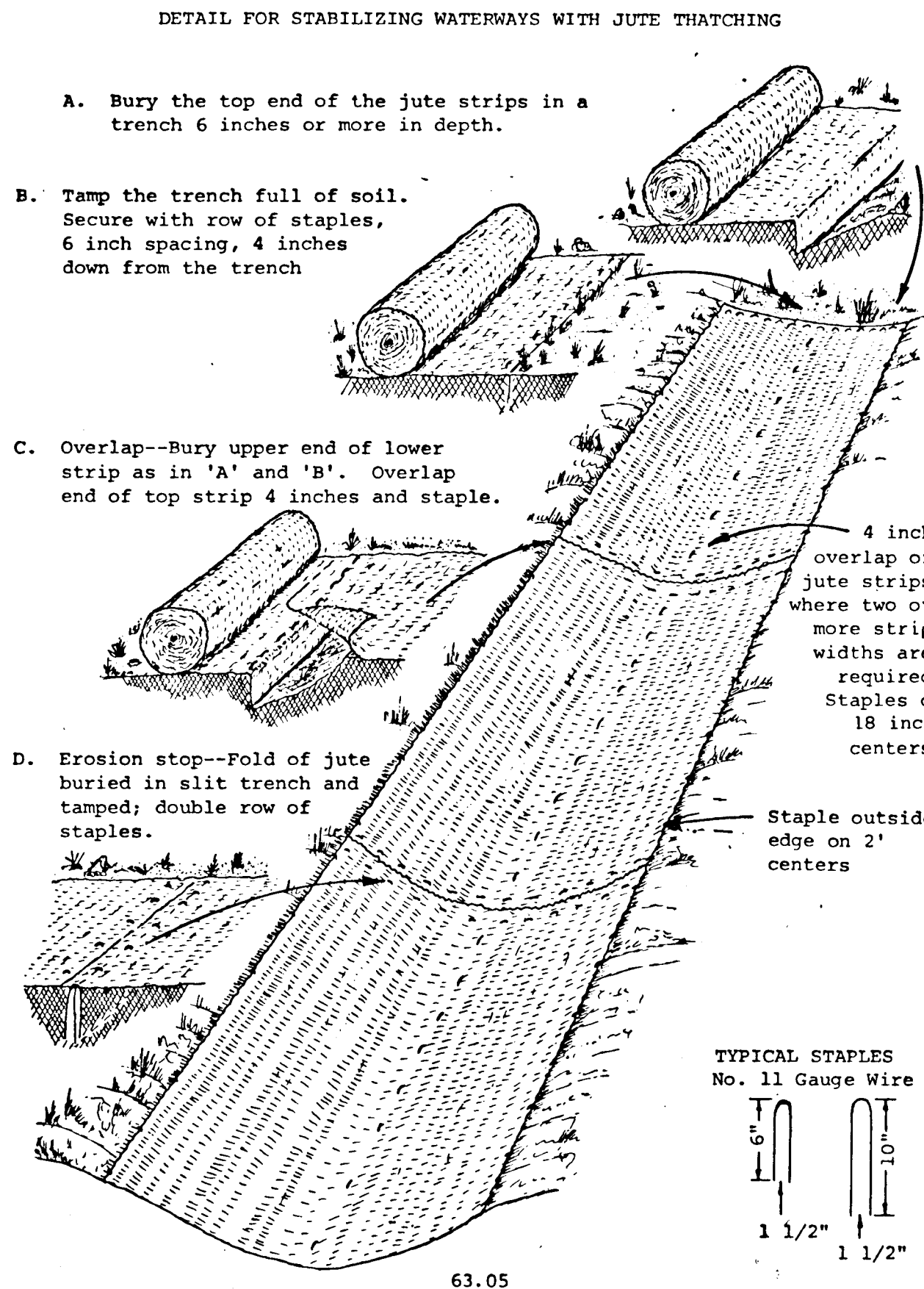
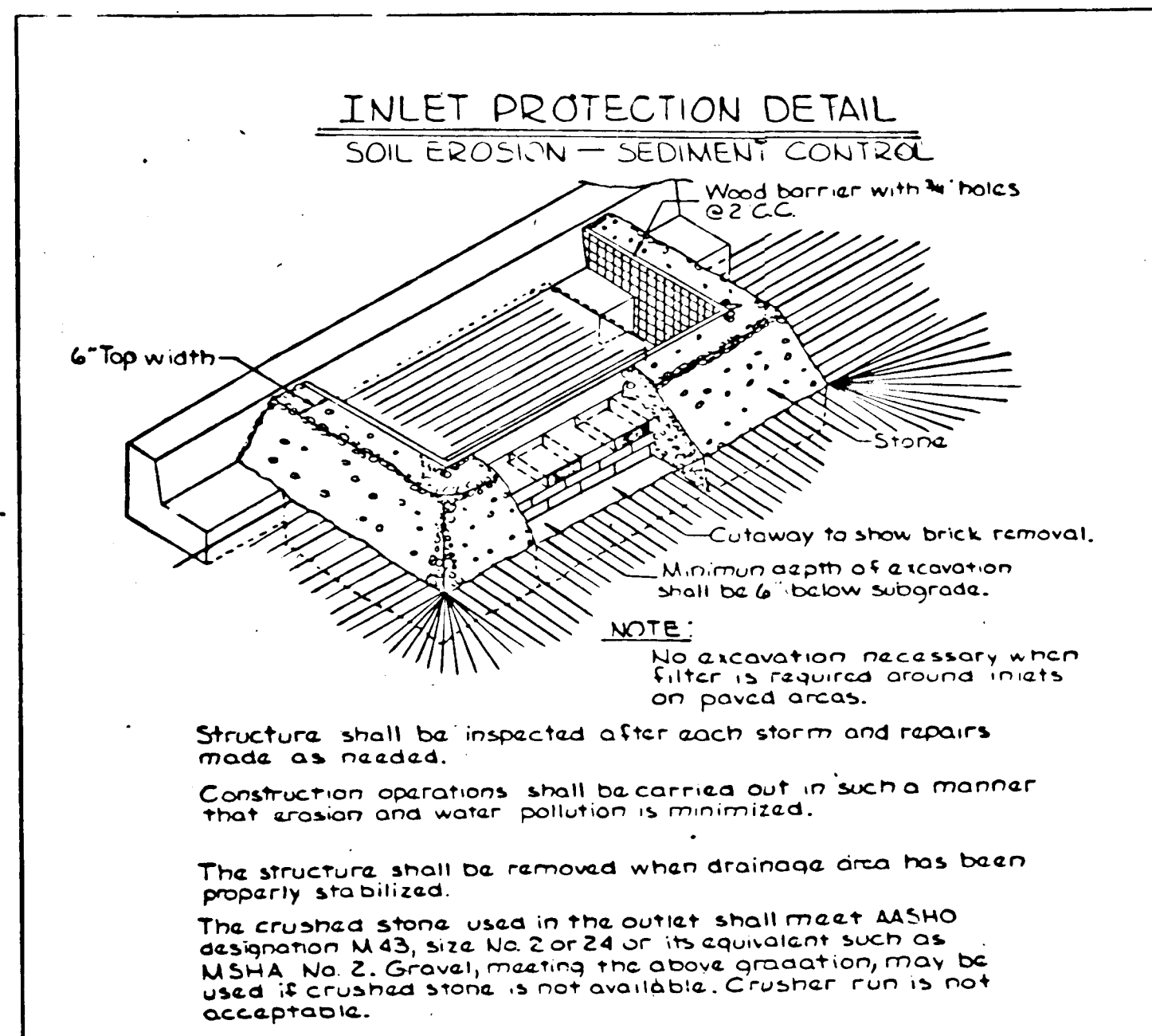
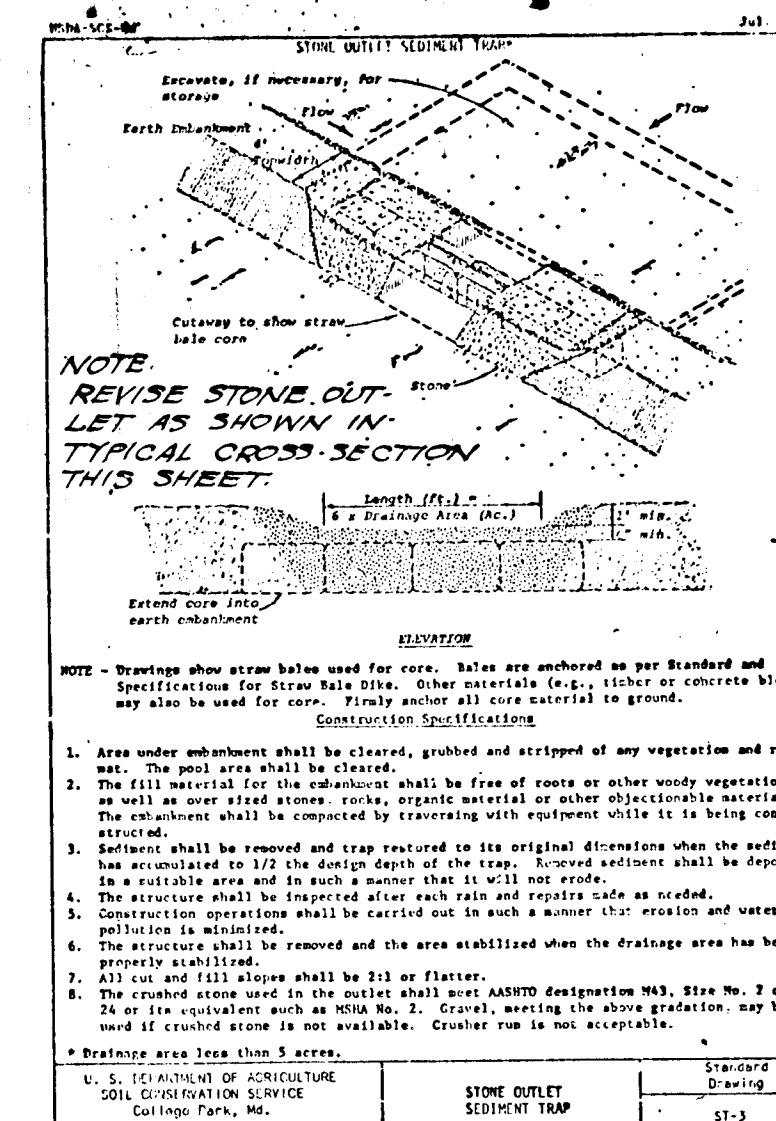
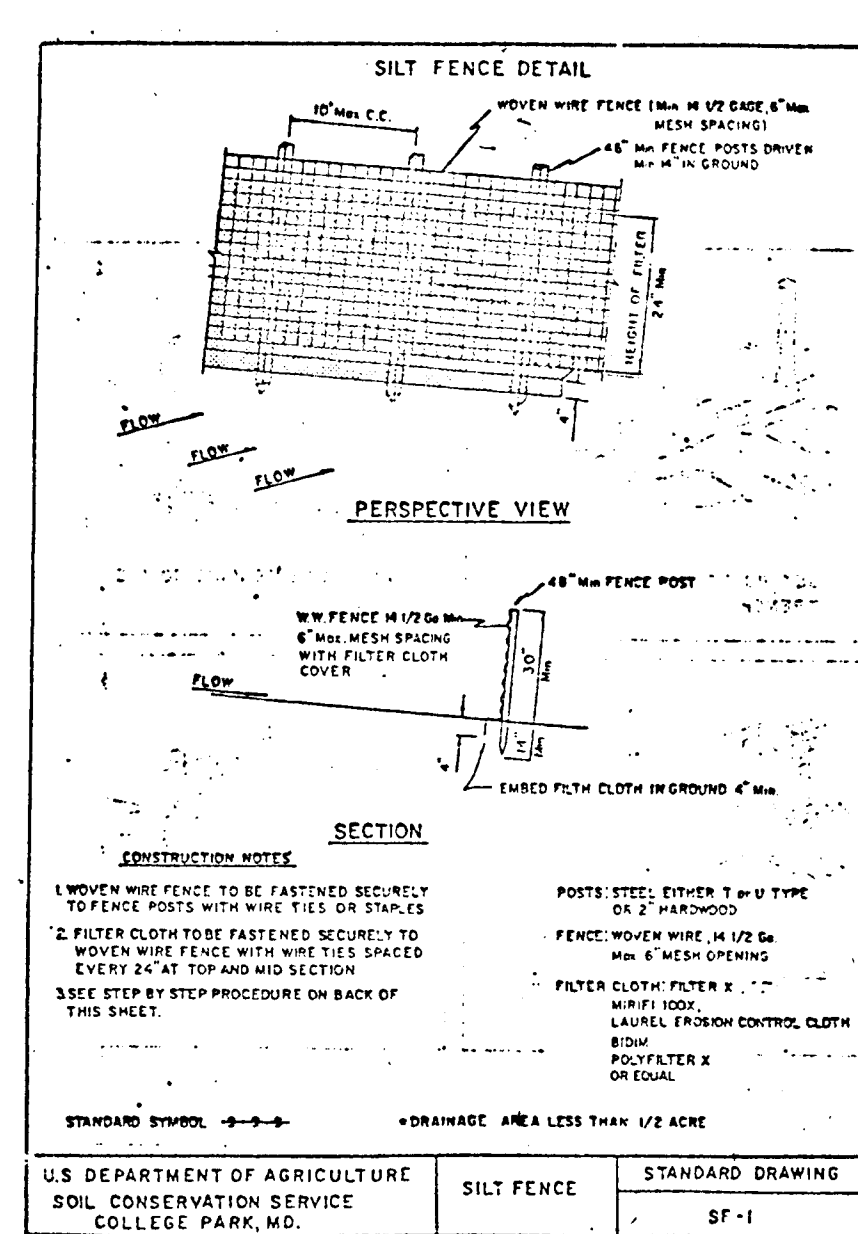
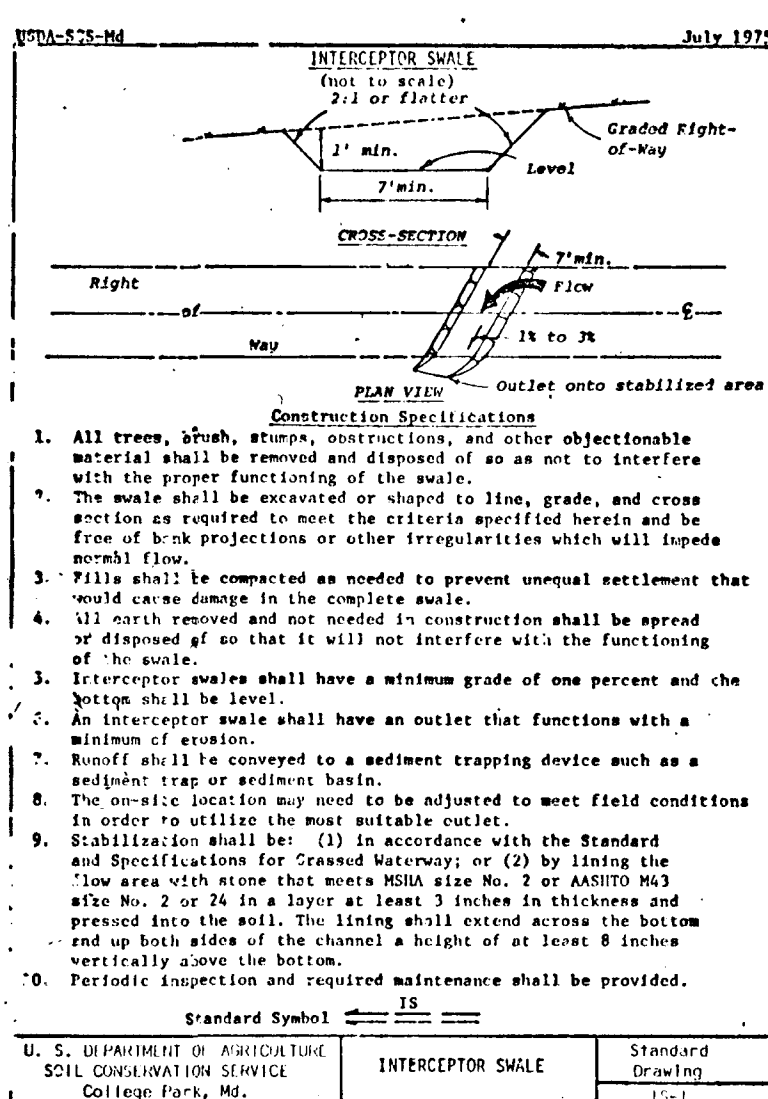
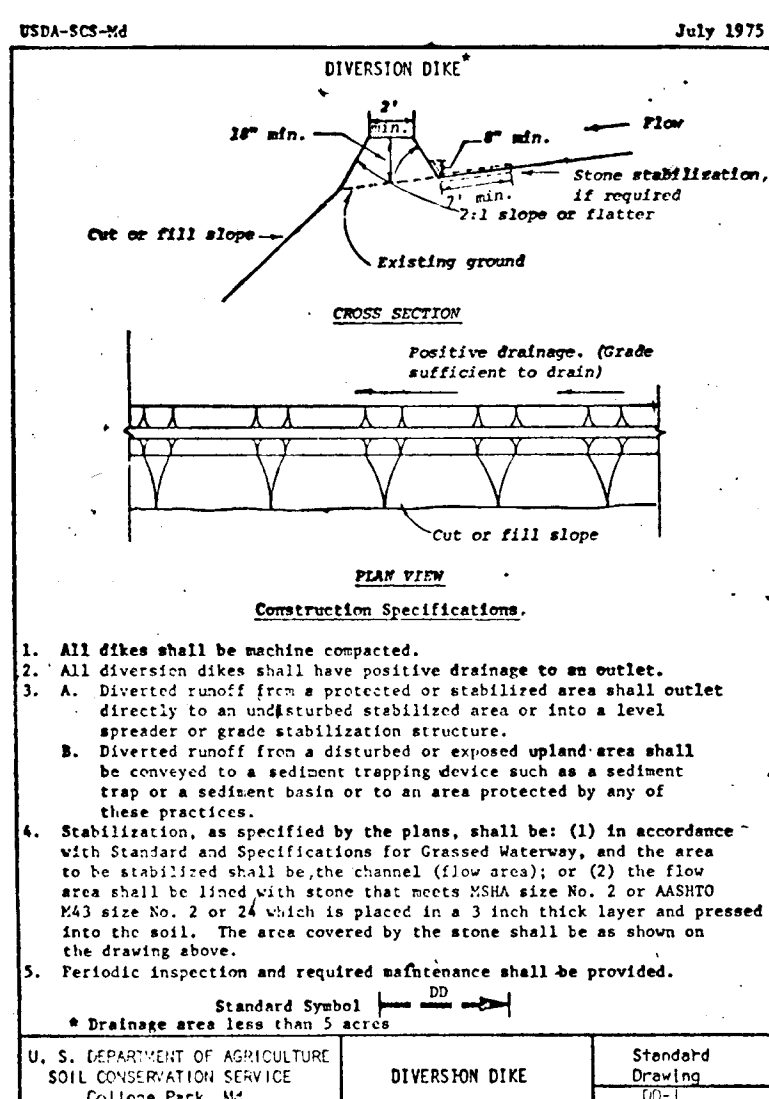
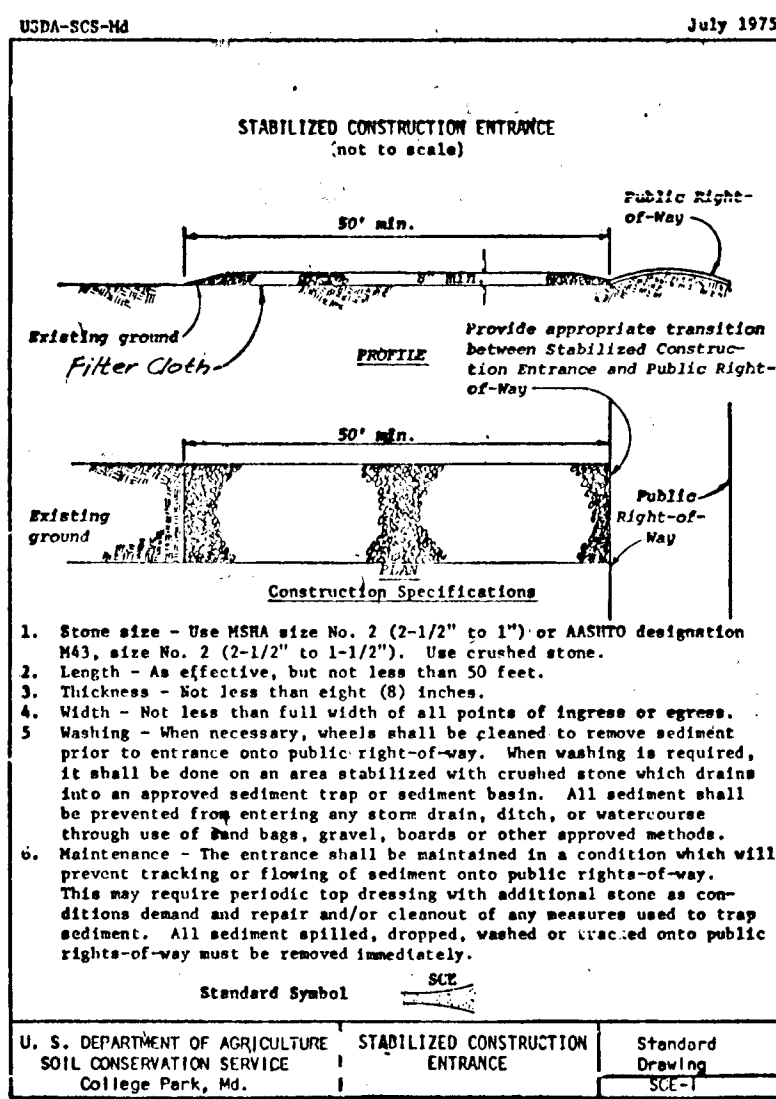
Millet - 0.92 lbs. per 1,000 square feet (May 1 - August 15)

Mulch: Same as above (Nov. 2 through Jan. 31, use mulch only)

4. No fills may be placed on frozen ground. All fill to be placed in approximately horizontal layers, each layer having a loose thickness of not more than 8". All fill in roadways and parking areas is to be classified Type 2 as per Anne Arundel County Grading Ordinance, Section 12-2027, and compacted to 90% density; compaction to be determined by ASTM D-1557 (Modified Proctor). Any fill within building area to be compacted to a minimum of 95% as determined by methods previously mentioned. All other fills shall be compacted sufficiently so as to be stable and prevent erosion and slippage.

**5. Permanent Sod:**

Permanent sod is to be Kentucky 31 tall fescue state approved sod; lime and fertilizer per permanent seeding specifications and lightly irrigate soil prior to laying sod. Sod is to be laid on the contour with all ends tightly abutting. Water and roll or tamp sod to insure positive root contact with the soil. All slopes greater than 3 to 1, as shown, are to be permanently sodded. Additional watering for establishment may be required. Sod is not to be applied on frozen ground.



**SEDIMENT CONTROL NOTES**

- All work shall be accomplished in accordance with Soil Conservation Services' "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas", July, 1975, and this plan of Sediment Control approved by the Howard County Soil Conservation District and the Department of Public Works.
- During the layout of the sediment control measures shown hereon, minor field adjustments can and will be made to insure the arrest and control of any sediment before it leaves the construction site. These said changes require prior approval of the Sediment Control Inspector and the Soil Conservation District.
- At the end of each working day, all sediment control measures will be inspected and left in an operational condition.
- No sediment control measures may be removed without permission of the Sediment Control Inspector.
- All 2:1 slopes are to be stabilized immediately after grading operations with sod.
- Any disturbed area left idle for more than 30 days will be stabilized according to the temporary seeding notes shown hereon.
- Any changes to the grading proposed on these plans will require that they be resubmitted to the Soil Conservation District.

**DEVELOPERS CERTIFICATION:**  
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE IN ACCORDANCE WITH THESE PLANS 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 CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

W.A. Martin  
 W.A. MARTIN  
 DATE 8/24/84

**ENGINEERS CERTIFICATION:**  
 I CERTIFY THAT THIS PLAN FOR SOIL EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

Richard J. Truelove, P.E.  
 RICHARD J. TRUELOVE P.E.  
 M.D. REG. NO. 10800  
 DATE 8-28-84

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

Director: [Signature]  
 DATE: 9-18-84

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

Chief, Division of Land Development and Zoning Administration: [Signature]  
 DATE: 9-14-84

U.S. SOIL CONSERVATION SERVICE: THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

Howard County Health Officer: [Signature]  
 DATE: 9-14-84

**SEDIMENT CONTROL DETAILS & NOTES**  
**MT. AUGUSTINE**  
 SECTION 1 AREA 2

NO SCALE  
 TAX MAP 38  
 ELECTION DISTRICT 1

AUGUST 28, 1984  
 PARCEL 173  
 HOWARD CO., MD.

OWNER/DEVELOPER: W.A. MARTIN ASSOCIATES, INC.  
 9400 WOODBURN ROAD, BALTIMORE, MD. 21234  
 TEL: 444-4312

PREPARED BY: A.P.R. ASSOCIATES, INC.  
 7427 HARFORD ROAD, ROCKVILLE, MD. 20850  
 TEL: 444-4312

DESIGNED BY: [Signature]  
 DRAWN BY: [Signature]  
 PROJECT NO.:  
 DATE: 8-28-84  
 SCALE:  
 SHEET NO. 9 OF 9

#87