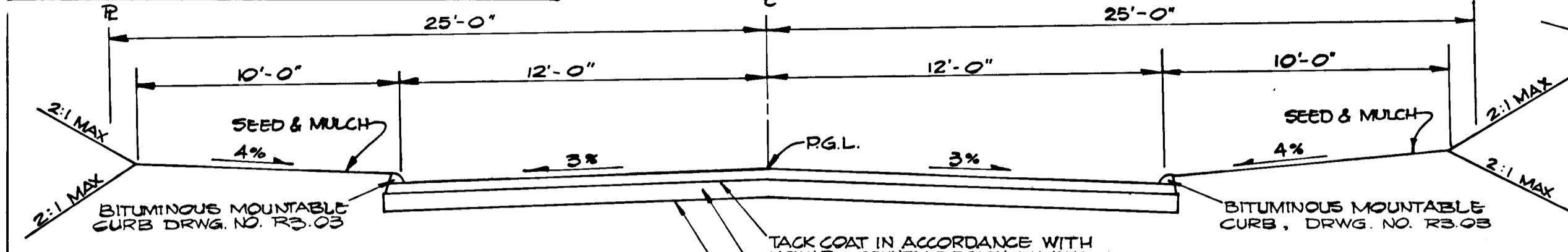


APPROVED: DEPARTMENT OF PUBLIC WORKS
Granville W. Wehner 2/19/88
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS
Walter P. ... 2/25/88
 CHIEF, LAND DEVELOPMENT DIVISION DATE



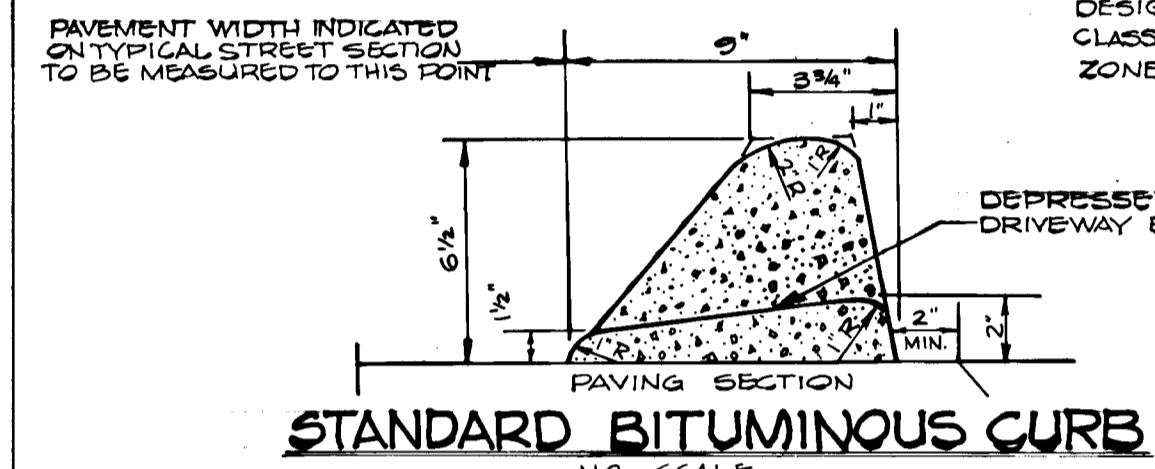
NOTE: ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IX STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.

TACK COAT IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IX.

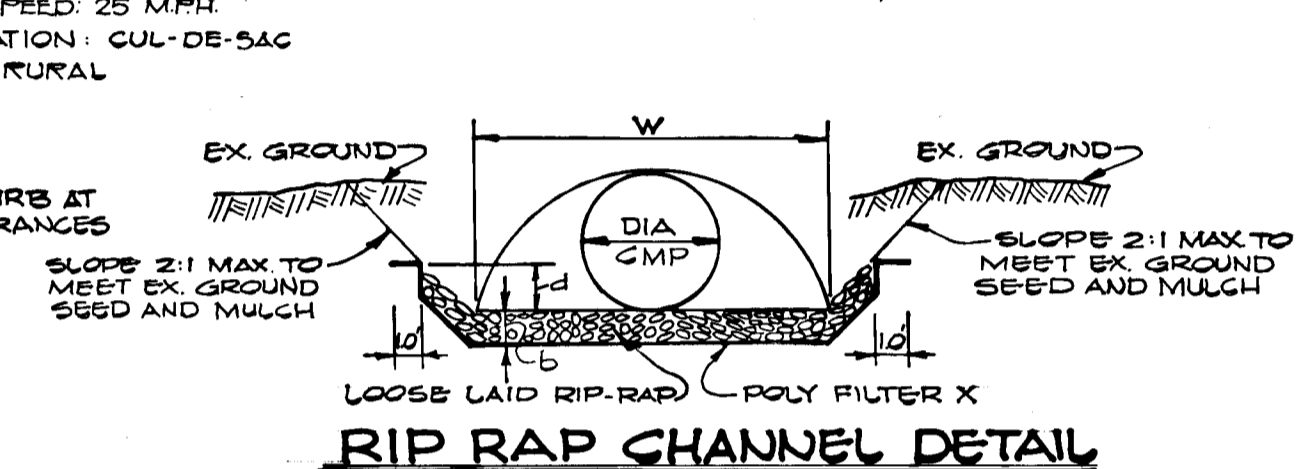
PAVING SECTION SHALL BE IN ACCORDANCE WITH SECTION NUMBER P-2, DRWS. NO. R-2-01.

BASE WILL BE FRIMED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IX.

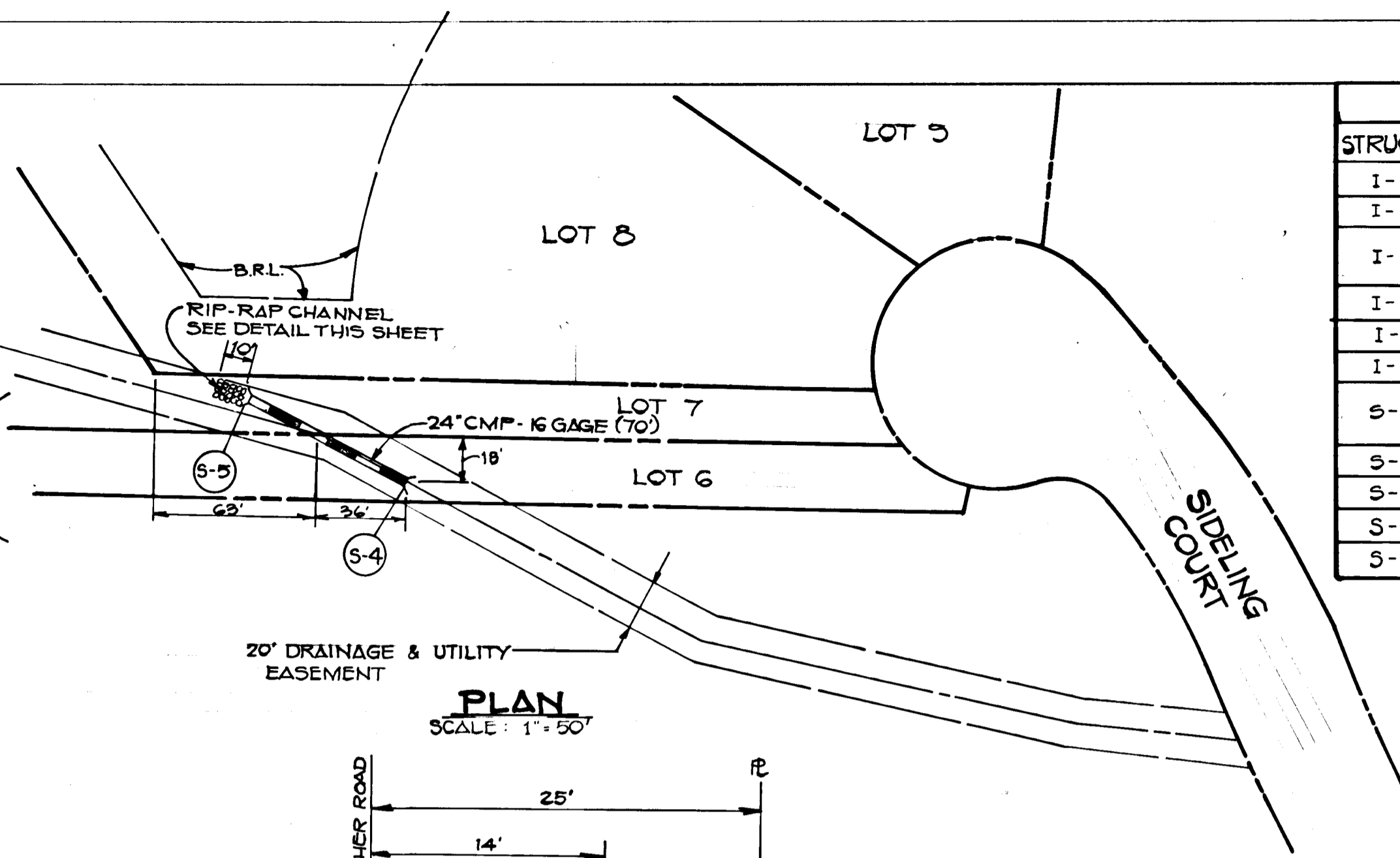
TYPICAL ROADWAY SECTION
 NO SCALE



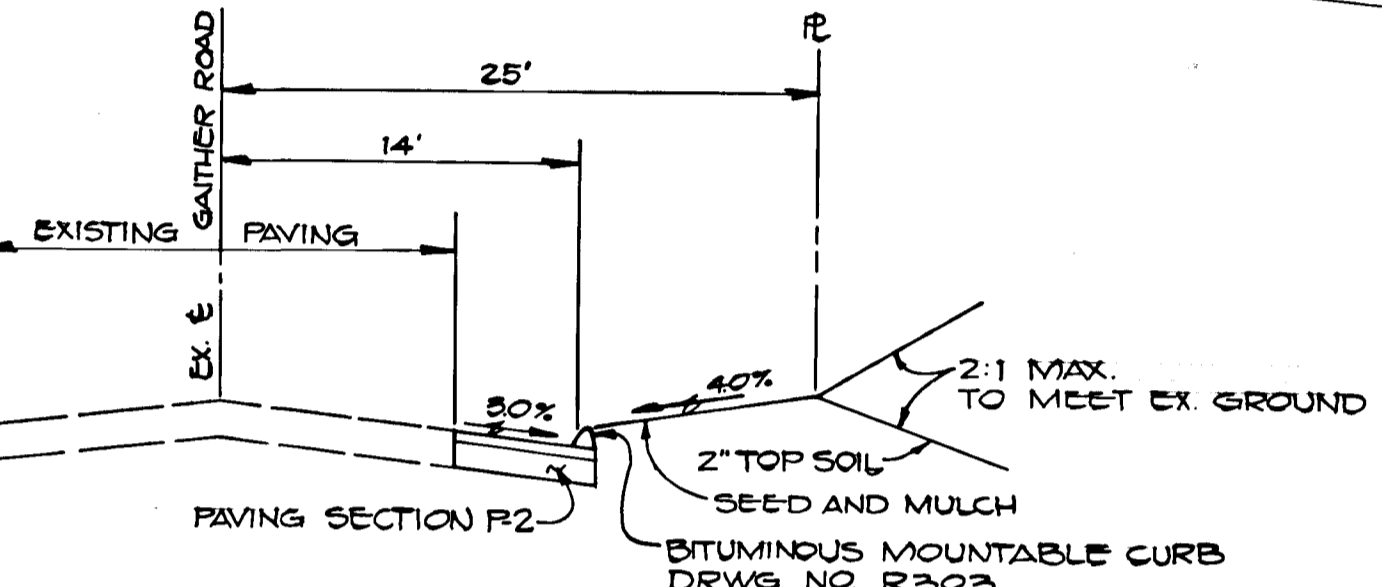
STANDARD BITUMINOUS CURB
 NO SCALE



RIP RAP CHANNEL DETAIL
 NO SCALE



PLAN
 SCALE: 1" = 50'

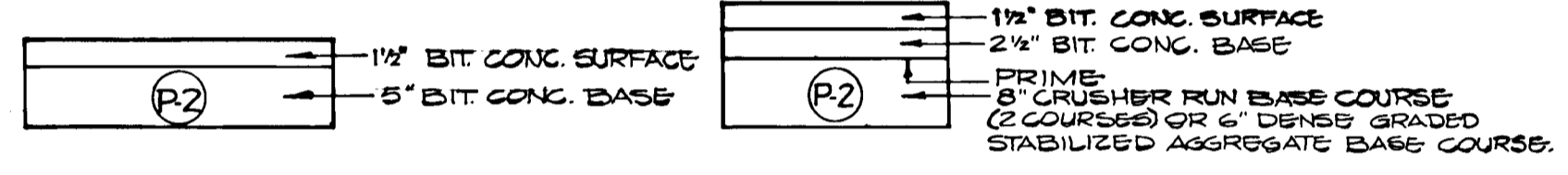


TYPICAL WIDENING SECTION
 GAITHER ROAD
 NO SCALE

STRUCTURE SCHEDULE						
STRUCTURE	TYPE	INVERT IN	INVERT OUT	TOP ELEV.	STATION	REMARKS
I-1	A-5 W/DEFLECTORS	486.27	486.02	491.47	±0+42.33 RT.	DRWG. S.D. 4.01 & 4.03
I-2	A-5 W/DEFLECTORS	487.25	486.75	491.47	±0+42.33 LT.	DRWG. S.D. 4.01 & 4.03
I-3	K INLET	--	487.70	491.75	± GAITHER ROAD 0+47.00 RT.	DRWG. S.D. 4.13
I-4	A-10 W/DEFLECTORS	--	497.56	501.78	± 3+00.00 LT.	DRWG. S.D. 4.02 & 4.03
I-5	A-5 INLET	511.41	511.16	517.97	± 10+03.57 LT.	DRWG. S.D. 4.01
I-6	A-5 INLET	512.00	511.75	517.97	± 10+03.57 RT.	DRWG. S.D. 4.01
S-1	TYPE C HEADWALL	--	488.22	487.22	± GAITHER ROAD 0+47.00 LT.	DRWG. S.D. 5.31
S-2	METAL END SECTION	--	510.00	511.75	± 10+32.94 LT. 777'	DRWG. S.D. 5.61
S-3	METAL END SECTION	513.00	--	514.15	± 10+03.57 RT. 52'	DRWG. S.D. 5.61
S-4	METAL END SECTION	492.00	--	494.00	--	DRWG. S.D. 5.61
S-5	METAL END SECTION	--	488.50	490.50	--	DRWG. S.D. 5.61

APPROVED: DEPARTMENT OF PUBLIC WORKS
William E. Ray 2-29-88
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: OFFICE OF PLANNING AND ZONING
James ... 3/1/88
 COMMUNITY PLANNING AND LAND DEVELOPMENT DATE



PAVING SECTION P-2
 NO SCALE

RIP-RAP CHANNEL DESIGN DATA														
STRUCTURE	A ^b	P.F.	R	R ^{2/3}	S%	S ^{1/2}	n	Q cfs	V fps	d ft.	W ft.	RIP-RAP SIZE	b	
S-1	39858	72647	05487	026701	2.00	0.1414	0.04	14.03	3.52	0.183	4.0	6"	9"	14"
S-2	30000	72361	04146	025558	3.00	0.1732	0.04	10.73	3.58	0.250	5.0	4"	6"	9"
S-5	24402	61913	023941	005374	5.00	0.2236	0.04	10.88	4.46	0.49	4.0	4"	6"	9"



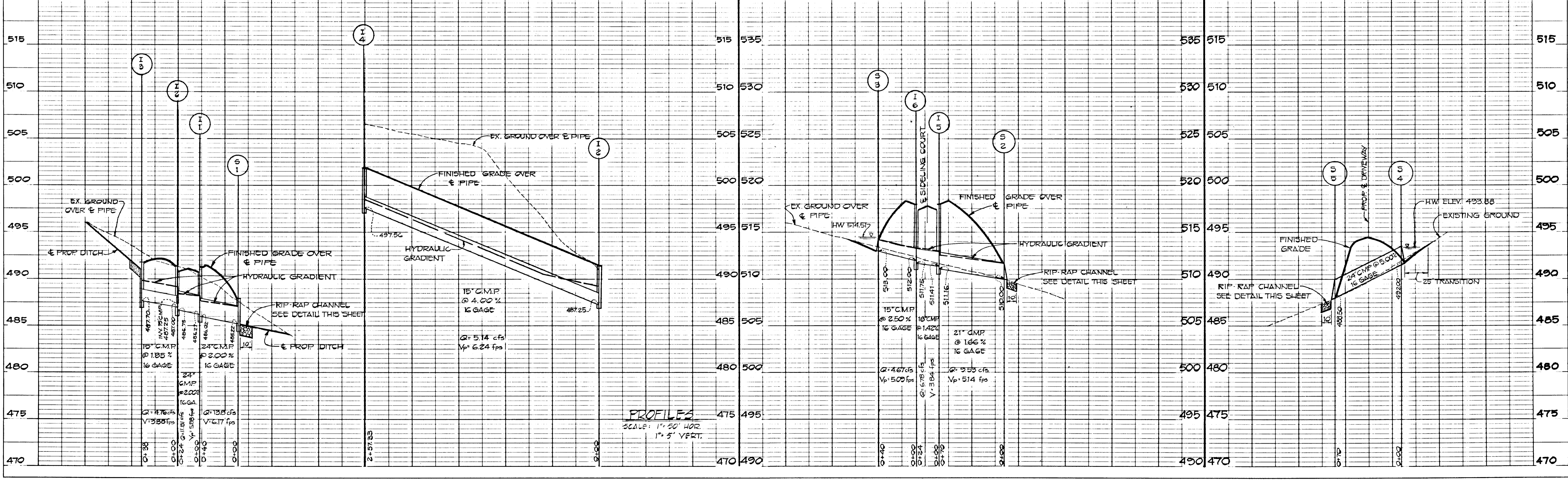
Charles J. Crovo
 CHARLES J. CROVO SR. PE. 10/20/87
 DATE

GAITHER'S SIDELING
 SECTION FOUR
 LOTS 1-14
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER
 GAITHER ROAD JOINT VENTURE
 P.O. BOX 122
 ELLICOTT CITY, MARYLAND 21043

SCALE AS SHOWN DATE 6/25/87 DWG. NO. 2 OF 3
 DES. A.M. VITUCCI DRN. G. WEAVER CHK. C.J. CROVO

FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



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

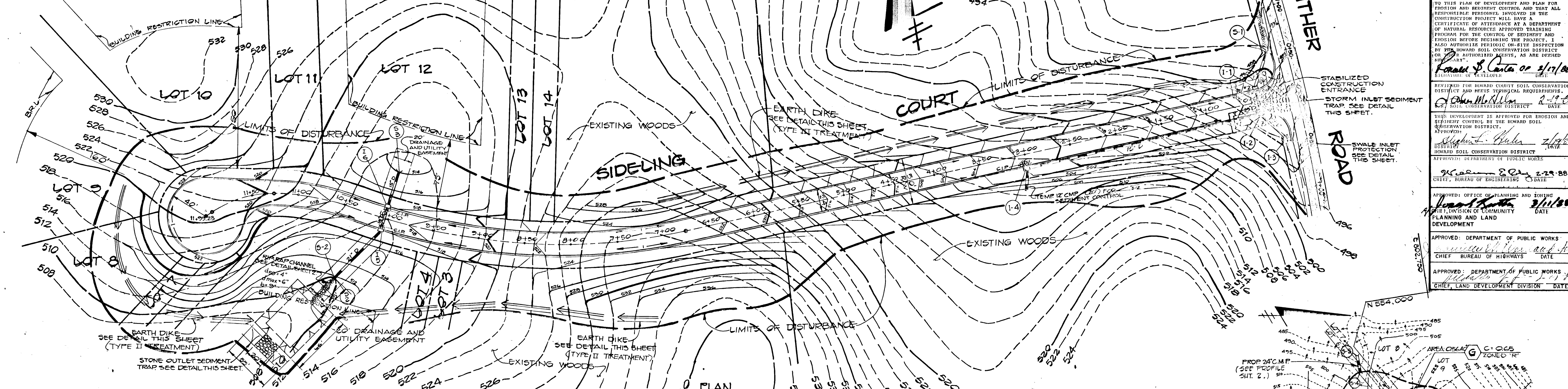
12821

STONE OUTLET SEDIMENT TRAP DATA

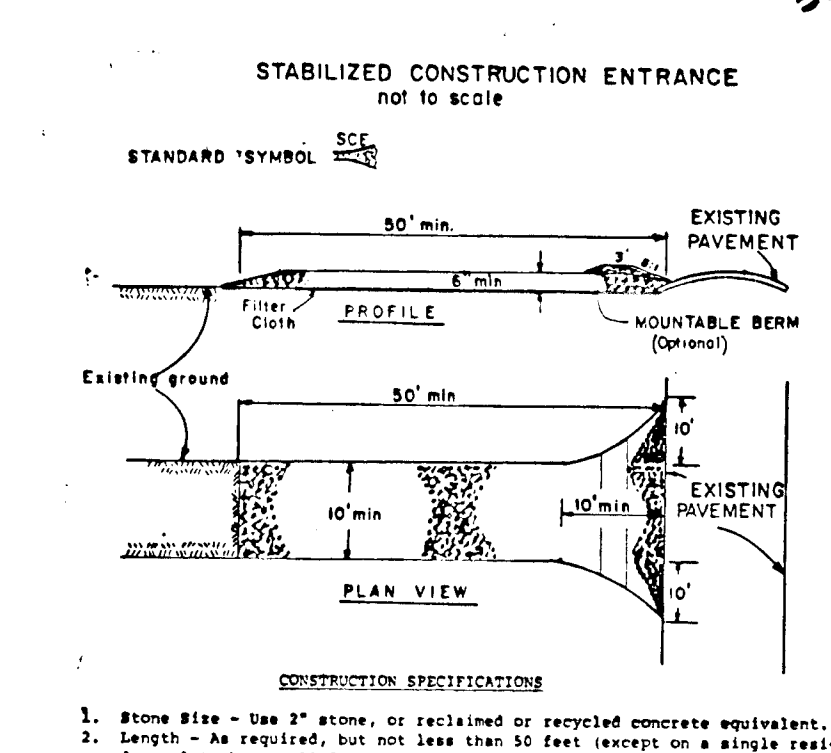
BOTTOM DIM. = 50' x 37'
TOP DIM. = 64' x 55'
STORAGE REQUIRED = 7956 cu. ft.
STORAGE PROVIDED = 8000 cu. ft.
DEPTH = 4.0'
BOTTOM ELEV. = 504.0
TOP ELEV. = 510.0
WEIR ELEV. = 509.0
DRAINAGE AREA = 4.42 AC ±

STORM INLET SEDIMENT TRAP #1
BOTTOM DIM. = 26' x 14'
TOP DIM. = 44' x 22'
STORAGE REQUIRED = 1800 cu. ft.
STORAGE PROVIDED = 1824 cu. ft.
DEPTH = 4.0'
WEIR ELEV. @ I-2 = 490.87

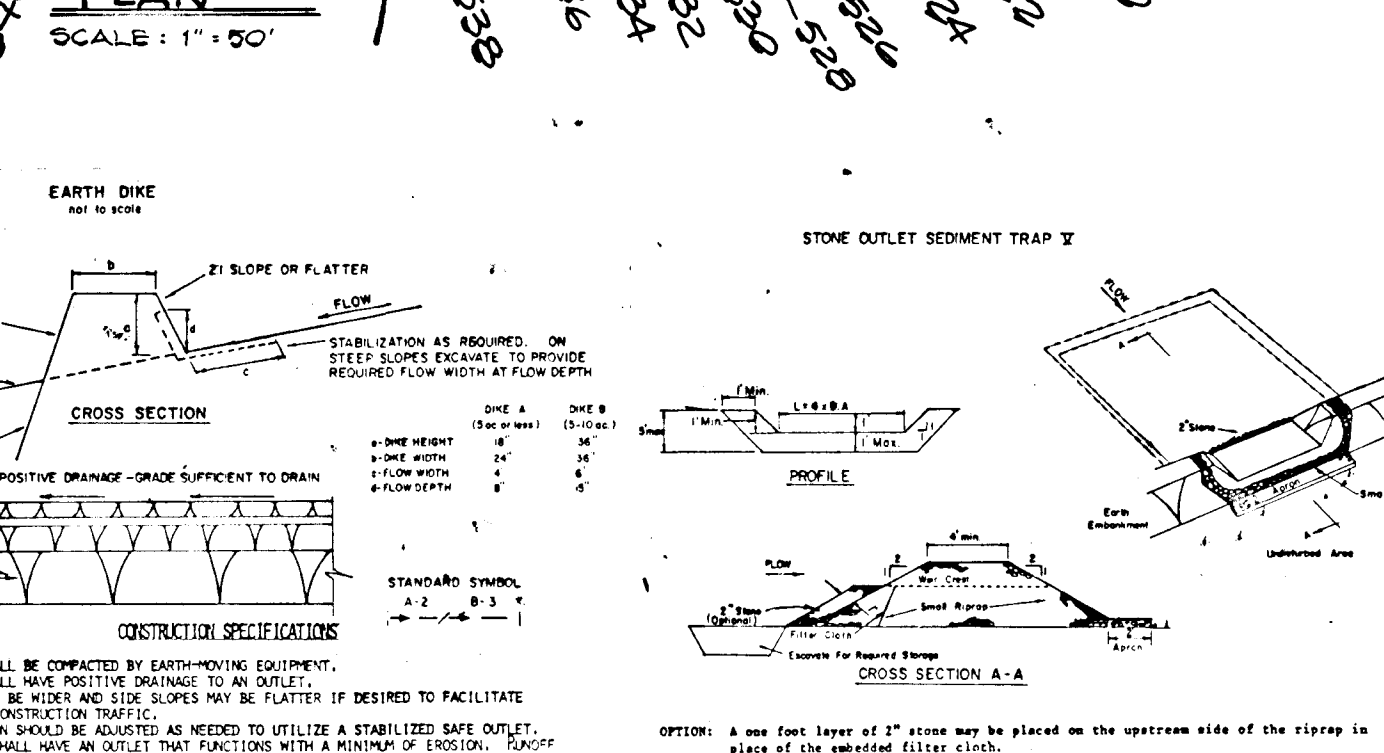
STORM INLET SEDIMENT TRAP #2
BOTTOM DIM. = 26' x 14'
TOP DIM. = 34' x 22'
STORAGE REQUIRED = 1255 cu. ft.
STORAGE PROVIDED = 1255 cu. ft.
DEPTH = 4.0'
WEIR ELEV. @ I-1 = 490.87



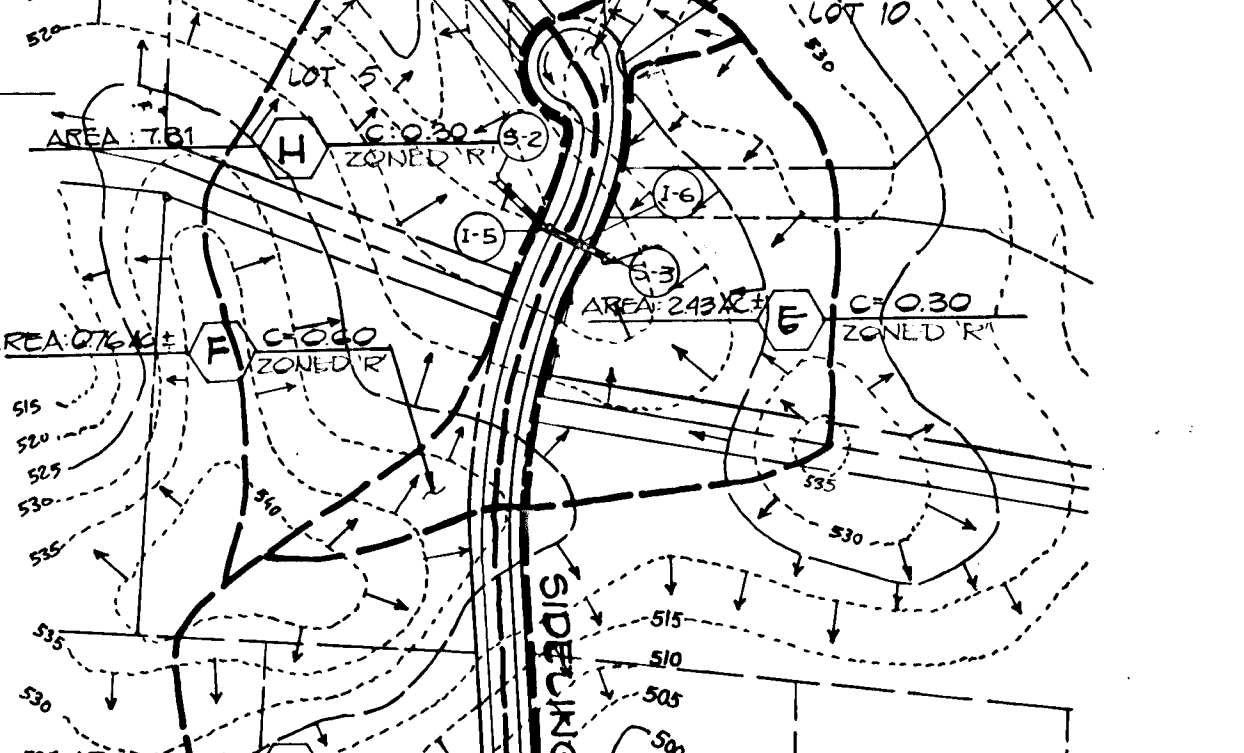
- SEEDING CONTROL NOTES:
1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (992.243).
2. ALL VEGETATION AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL...



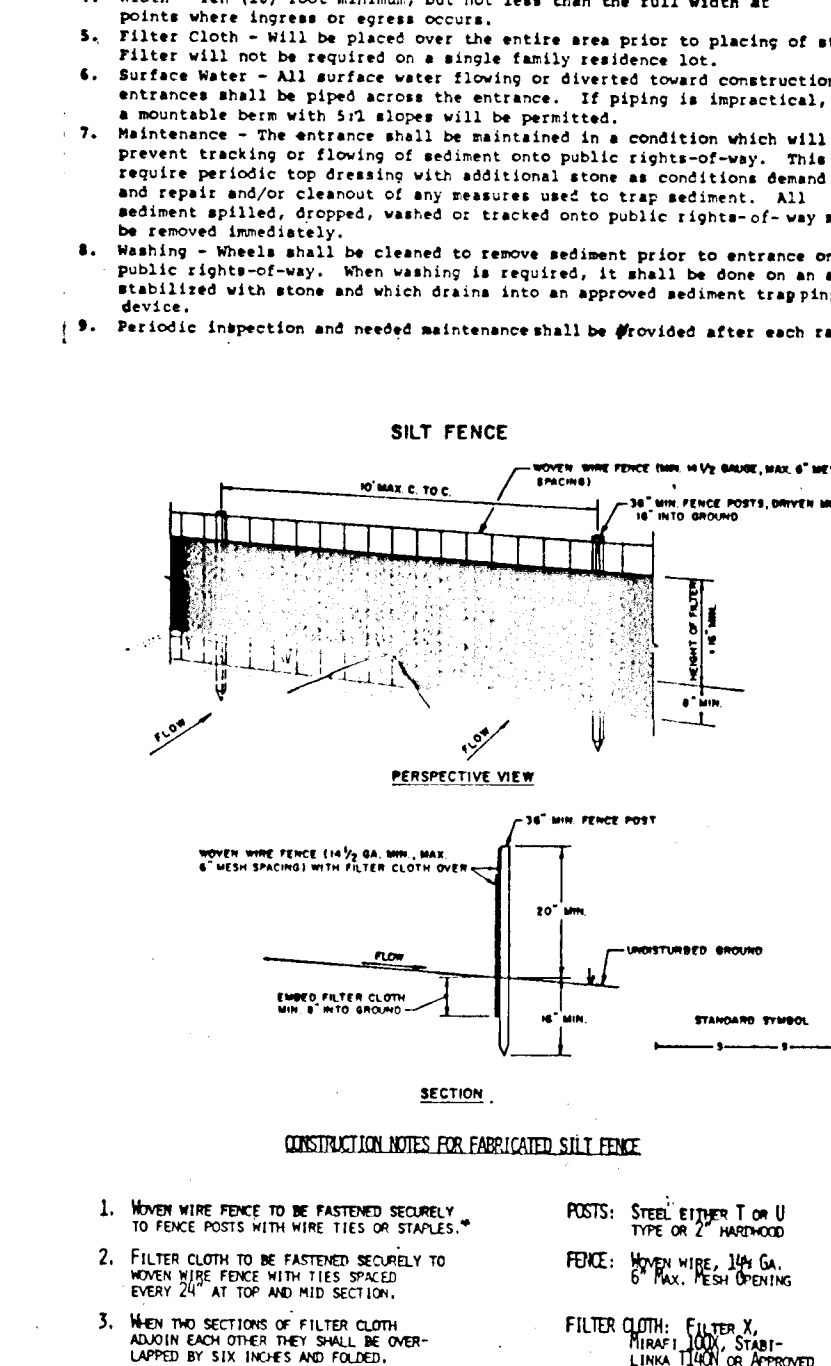
- CONSTRUCTION SEQUENCE:
1. OBTAIN GRADING PERMIT
2. CONSTRUCT STONE CONSTRUCTION ENTRANCE
3. CONSTRUCT STONE OUTLET SEDIMENT TRAP AND EARTH DIKE AS SHOWN ON THIS SHEET
4. CONSTRUCT STORM DRAIN SYSTEM FROM S-1 TO I-4 AND INSTALL SWALE INLET PROTECTION AT I-3...



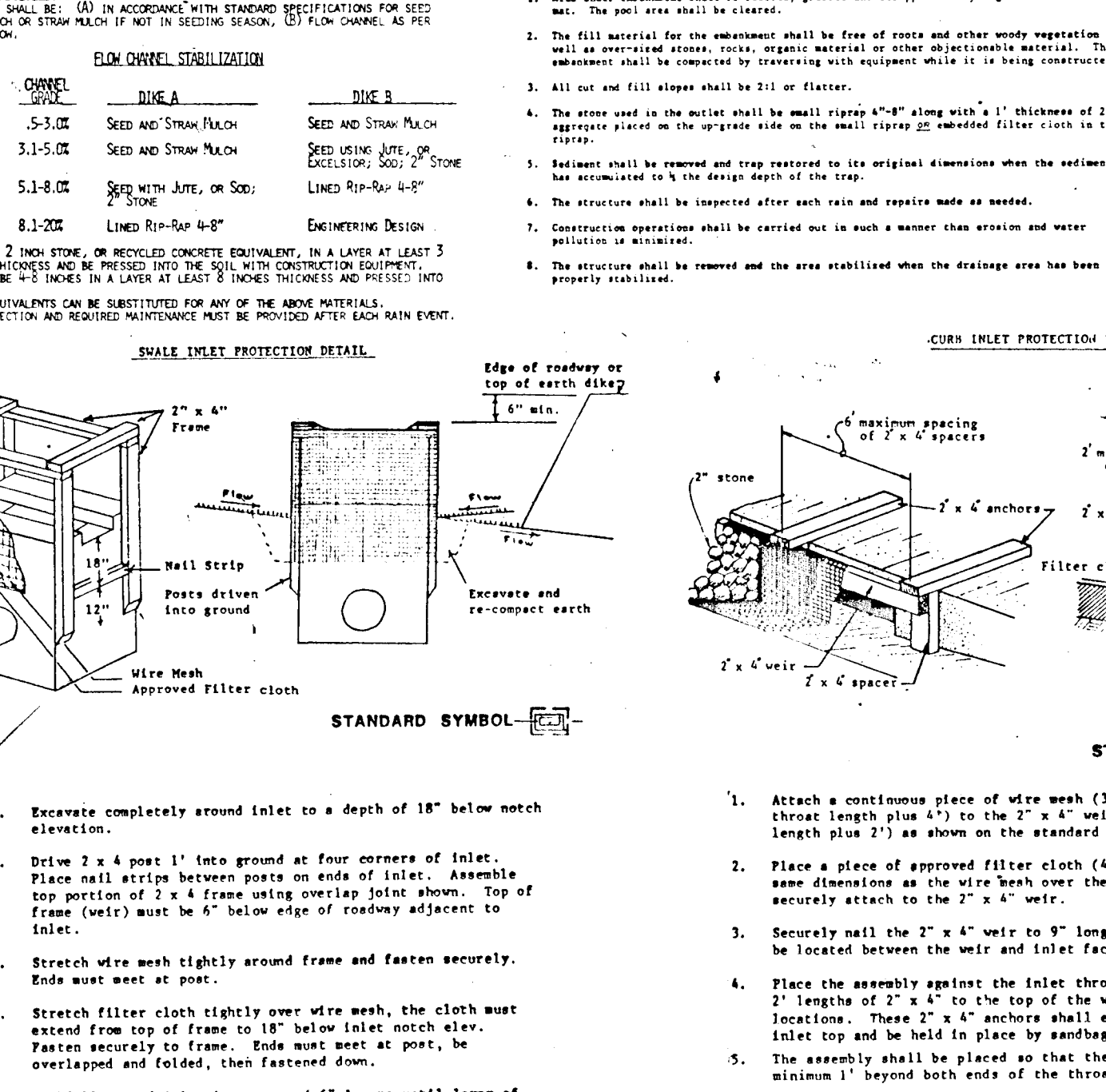
- CONSTRUCTION SPECIFICATIONS:
1. Stone Rip-Rap - 3/4" stone, or recycled concrete equivalent.
2. Layers - As indicated, but not less than 10 feet (except on a single retaining wall where a 30 foot minimum length would apply).



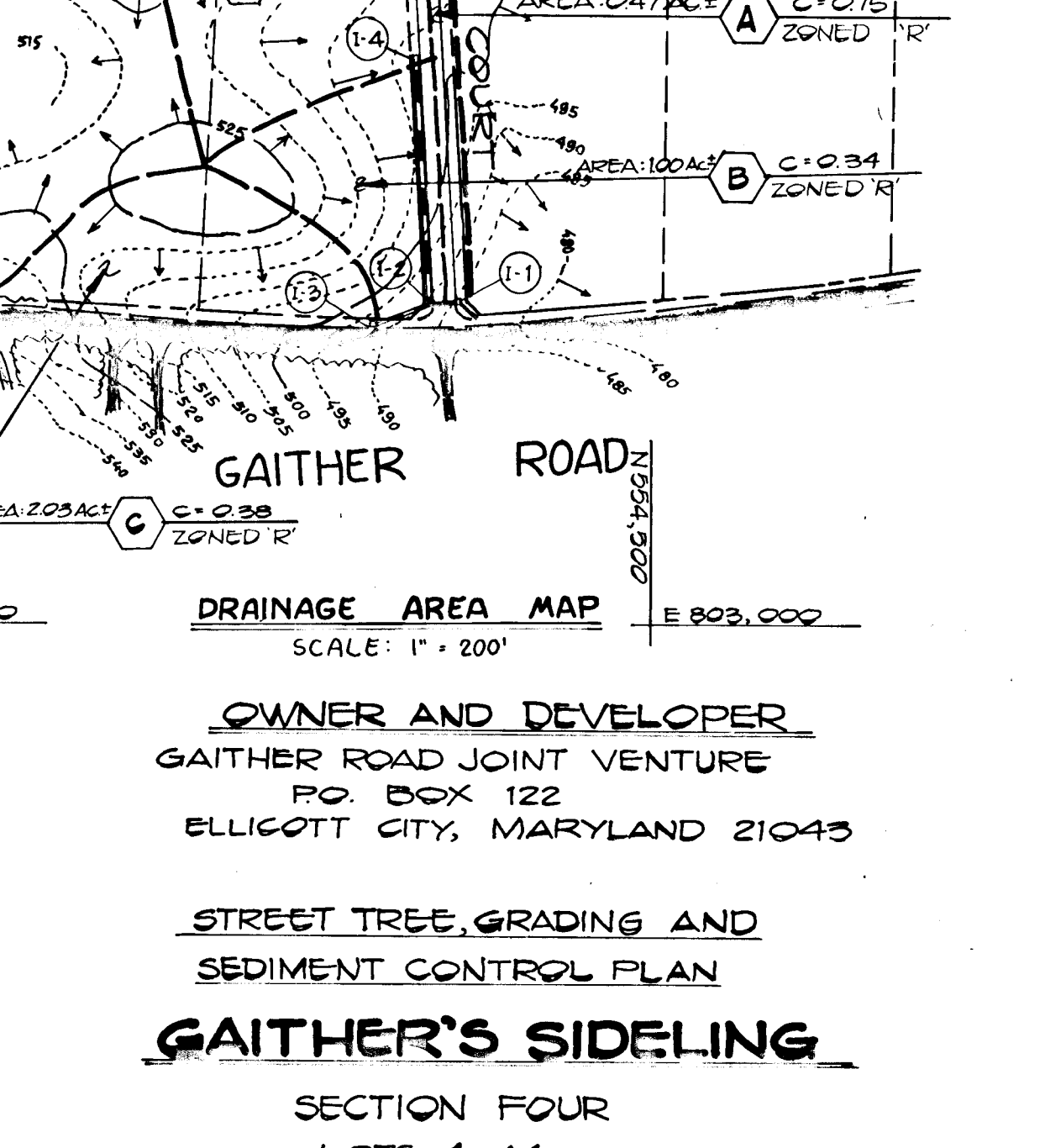
- PERMANENT SEEDING NOTES:
APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.
SEEDING PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.



- CONSTRUCTION SPECIFICATIONS:
1. Excavate completely around inlet to a depth of 18" below notch elevation.
2. Drive 2 x 4 post 1' into ground at four corners of inlet.
3. Stretch wire mesh tightly around frame and fasten securely.



- STANDARD SYMBOL:
1. Attach a continuous piece of wire mesh (300' min. width by throat length plus 4") to the 2" x 4" weir (ensuring throat length plus 2") as shown on the standard drawing.
2. Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the inlet face and securely attach to the 2" x 4" weir.



ENGINEER'S CERTIFICATE
I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND FEASIBLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
DATE: 8/17/88
SIGNATURE: Charles S. Carter, Inc.
DEVELOPER'S CERTIFICATE
I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS OR ITS AUTHORIZED AGENTS, AS ARE DEFINED IN THE PLAN.
DATE: 8/17/88
SIGNATURE: Charles S. Carter, Inc.
APPROVED: OFFICE OF PLANNING AND ZONING
DATE: 8/17/88
APPROVED: DEPARTMENT OF PUBLIC WORKS
DATE: 8/17/88
APPROVED: DEPARTMENT OF PUBLIC WORKS
DATE: 8/17/88

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS & LAND SURVEYORS
8300 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043

OWNER AND DEVELOPER
GATHER ROAD JOINT VENTURE
PO BOX 122
ELLCOTT CITY, MARYLAND 21043
STREET TREE, GRADING AND SEDIMENT CONTROL PLAN
GATHER'S SIDELING
SECTION FOUR
LOTS 1-14
4th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN SEPTEMBER 1987

9821