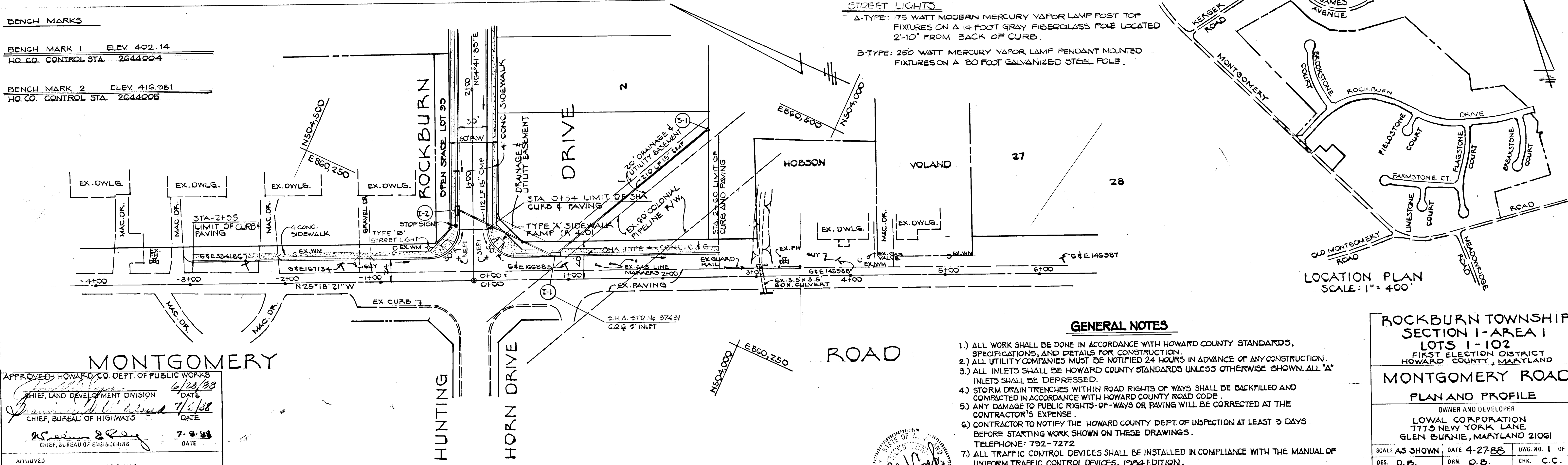


BENCH MARKS

BENCH MARK 1 ELEV. 402.14
 HO. CO. CONTROL STA. 2644004

BENCH MARK 2 ELEV. 416.981
 HO. CO. CONTROL STA. 2644005



STREET LIGHTS

A-TYPE: 175 WATT MODERN MERCURY VAPOR LAMP POST TOP FIXTURES ON A 14 FOOT GRAY FIBERGLASS POLE LOCATED 2'-10" FROM BACK OF CURB.

B-TYPE: 250 WATT MERCURY VAPOR LAMP PENDANT MOUNTED FIXTURES ON A 30 FOOT GALVANIZED STEEL POLE.

GENERAL NOTES

- 1.) ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS, AND DETAILS FOR CONSTRUCTION.
- 2.) ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HOURS IN ADVANCE OF ANY CONSTRUCTION.
- 3.) ALL INLETS SHALL BE HOWARD COUNTY STANDARDS UNLESS OTHERWISE SHOWN. ALL "A" INLETS SHALL BE DEPRESSED.
- 4.) STORM DRAIN TRENCHES WITHIN ROAD RIGHTS OF WAYS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
- 5.) ANY DAMAGE TO PUBLIC RIGHTS-OF-WAYS OR PAVING WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- 6.) CONTRACTOR TO NOTIFY THE HOWARD COUNTY DEPT. OF INSPECTION AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TELEPHONE: 792-7272
- 7.) ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1984 EDITION.

ROCKBURN TOWNSHIP SECTION 1-AREA 1
LOTS 1-102
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

MONTGOMERY ROAD

PLAN AND PROFILE

OWNER AND DEVELOPER
 LOWAL CORPORATION
 7713 NEW YORK LANE
 GLEN BURNIE, MARYLAND 21061

SCALE AS SHOWN DATE 4-27-88 DWG. NO. 1 OF 17
 DES. D.B. ORN. D.B. CHK. C.C.

FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21117

APPROVED HOWARD CO. DEPT. OF PUBLIC WORKS

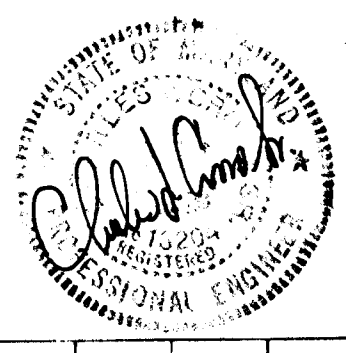
CHIEF, LAND DEVELOPMENT DIVISION
 DATE 6/28/88

CHIEF, BUREAU OF HIGHWAYS
 DATE 7/6/88

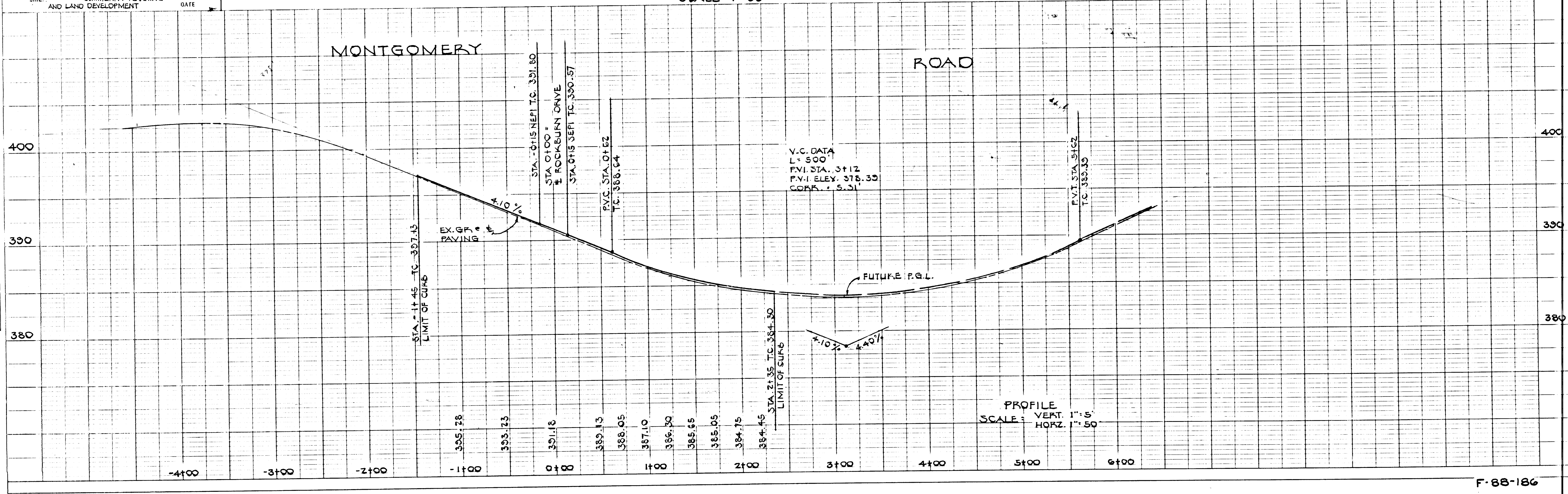
CHIEF, BUREAU OF ENGINEERING
 DATE 7/9/88

APPROVED OFFICE OF PLANNING AND ZONING

CHIEF, COMMUNITY PLANNING AND LAND DEVELOPMENT
 DATE 7/13/88



PLAN SCALE: 1" = 50'



1373

DATE	
SCALE	
PLAN	
NOTE BOOK	
NO.	
DATE	

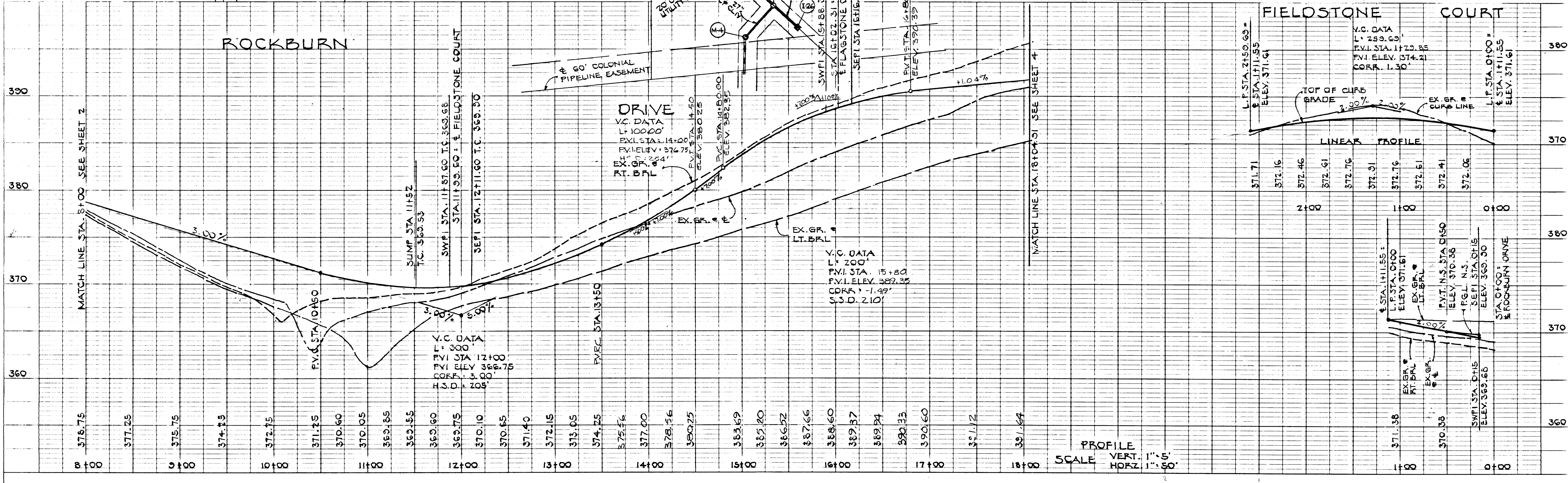
APPROVED: HOWARD CO. DEPT. OF PUBLIC WORKS
 4/28/88
 CHIEF, LAND DEVELOPMENT DIVISION
 CHIEF, BUREAU OF HIGHWAYS

APPROVED: 7-8-88
 CHIEF, BUREAU OF ENGINEERING

APPROVED: 7/1/88
 CHIEF, COMMUNITY PLANNING AND LAND DEVELOPMENT

Revised 10/30/89 by MY
 Changed Profile STA. 12+50
 -18+049/ON Rockburn Dr.

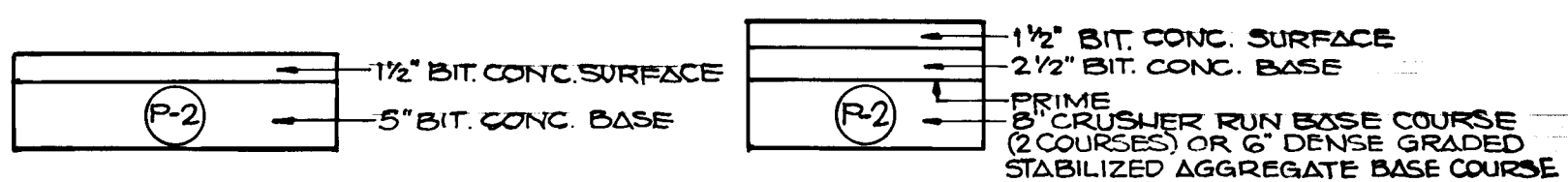
DATE	
SCALE	
PROFILE	
NOTE BOOK	
NO.	
DATE	



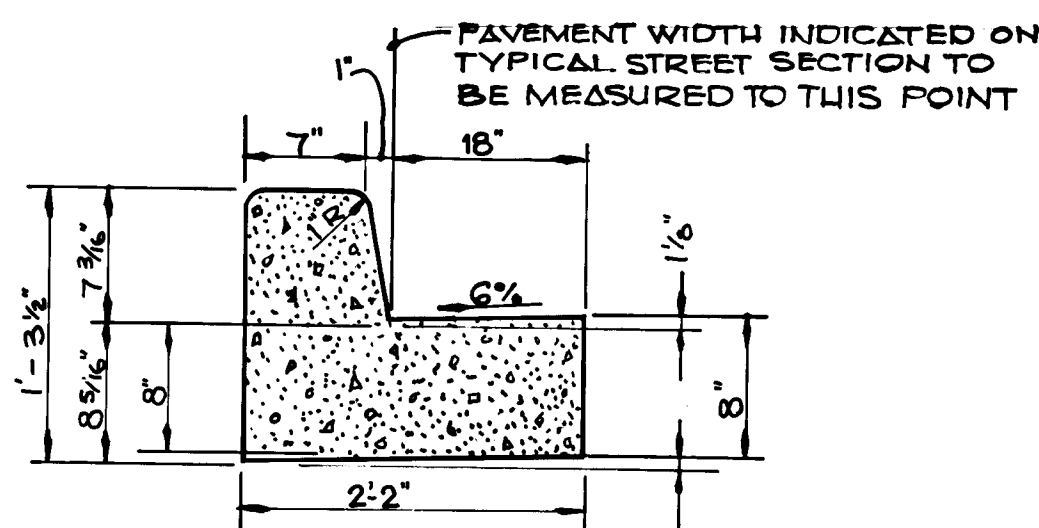
1373



ROCKBURN TOWNSHIP
SECTION 1 - AREA 1
LOTS 1-102
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
ROCKBURN DRIVE
FIELDSTONE COURT
PLAN AND PROFILE
 OWNER AND DEVELOPER
 LOWAL CORPORATION
 7770 NEW YORK LANE
 GLEN BURNIE, MARYLAND 21061
 SCALE AS SHOWN DATE 4-27-88 DWG. NO. 3 OF 17
 DES. D.B. DRN. D.B. CHK. C.C.
FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



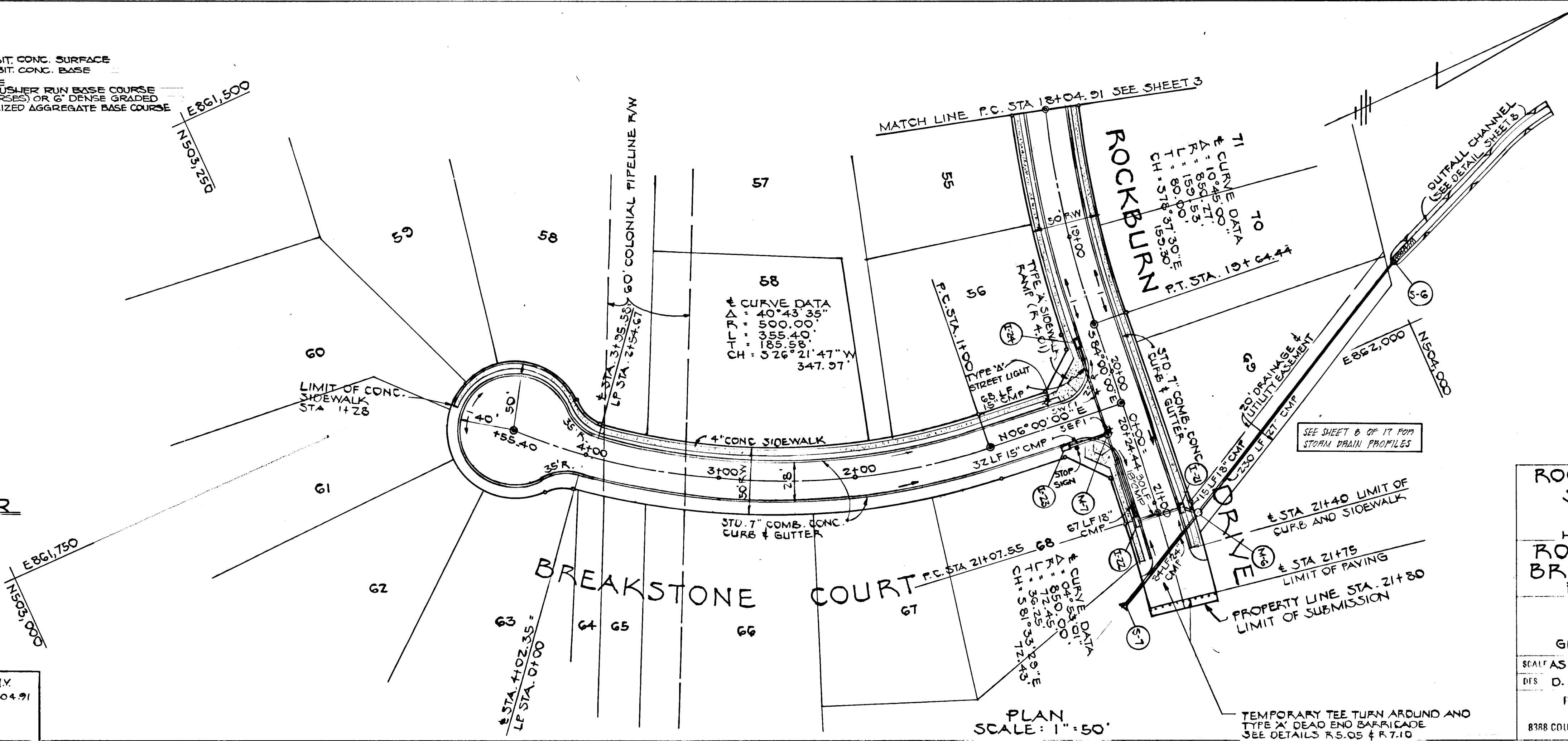
PAVING SECTION P-2
NO SCALE



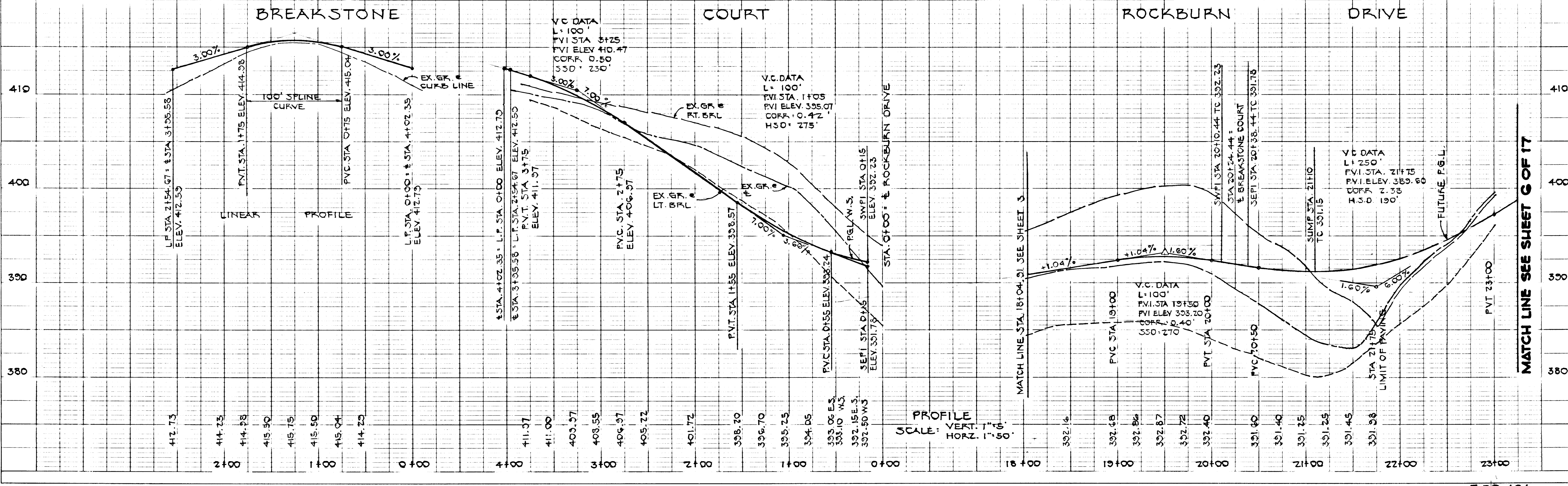
STANDARD SLOPE 7" COMB. CONC. CURB & GUTTER
NO SCALE

APPROVED: HOWARD CO. DEPT. OF PUBLIC WORKS
 [Signature] 4/28/88
 CHIEF, LAND DEVELOPMENT DIVISION
 [Signature] 7/6/88
 CHIEF, BUREAU OF HIGHWAYS
 [Signature] 7-8-88
 APPROVED: [Signature] 7/8/88
 OFFICE OF PLANNING AND ZONING
 COMMUNITY PLANNING AND LAND DEVELOPMENT

Revised 10/30/89 by M.V.
 Changed Profile Sta. 18+04.91
 -17+75 Rockburn Dr.



ROCKBURN TOWNSHIP
 SECTION 1 - AREA 1
 LOTS 1-102
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
ROCKBURN DRIVE
BREAKSTONE COURT
 PLAN AND PROFILE
 OWNER AND DEVELOPER:
 LOWAL CORPORATION
 7775 NEW YORK LANE
 GLEN BURNIE, MARYLAND 21061
 SCALE AS SHOWN DATE 4-27-88 DWG. NO. 4 OF 17
 DES. D.B. DRK. D.B. CHK. C.C.
 FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

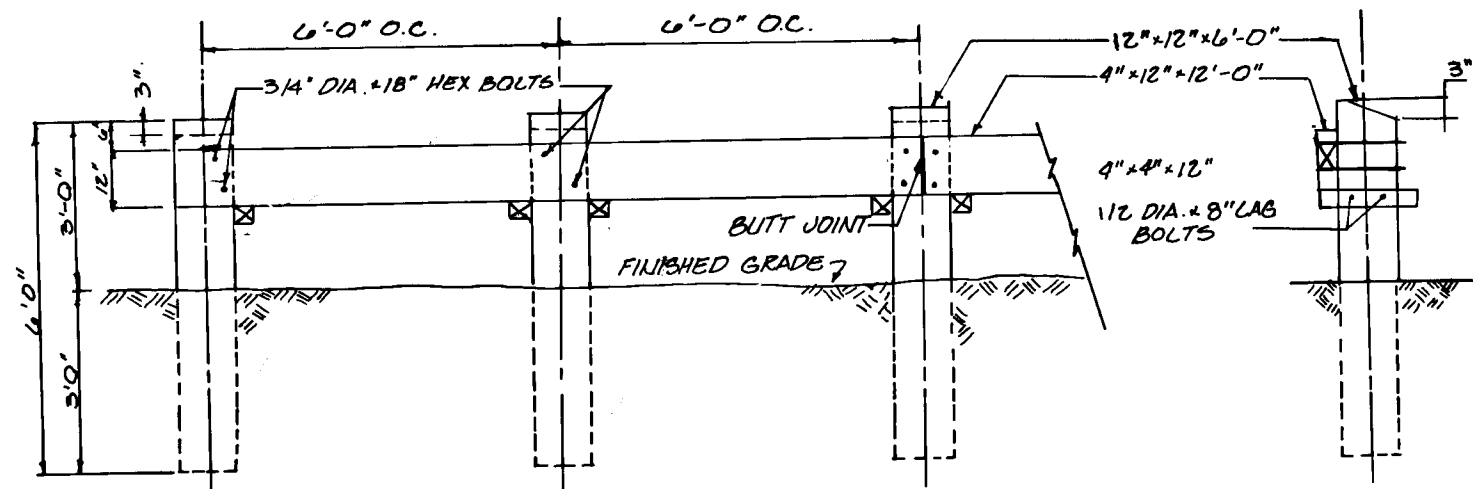


SURVEYED, PLANNED, DRAWN, CHECKED, IN FIELD, BY M.A. VOTED, STRUCTURE NOTATIONS CORRECT, DATE, NO.

SURVEYED, PLANNED, DRAWN, CHECKED, IN FIELD, BY M.A. VOTED, STRUCTURE NOTATIONS CORRECT, DATE, NO.

MATCH LINE SEE SHEET G OF 17

1373



- NOTES
1. ALL TIMBER TO BE PRESSURED TREATED
 2. ALL HARDWARE TO BE HOT DIPPED GALVANIZED
 3. BEVEL ALL EXPOSED EDGES 1/8" x 1/8"
 4. NAILS USED AS GAURDRAIL WITH APPROVAL OF D.P.W.

GUARD RAIL DETAIL
NOT TO SCALE

SIDE ELEVATION

N 505,250

E 860,500

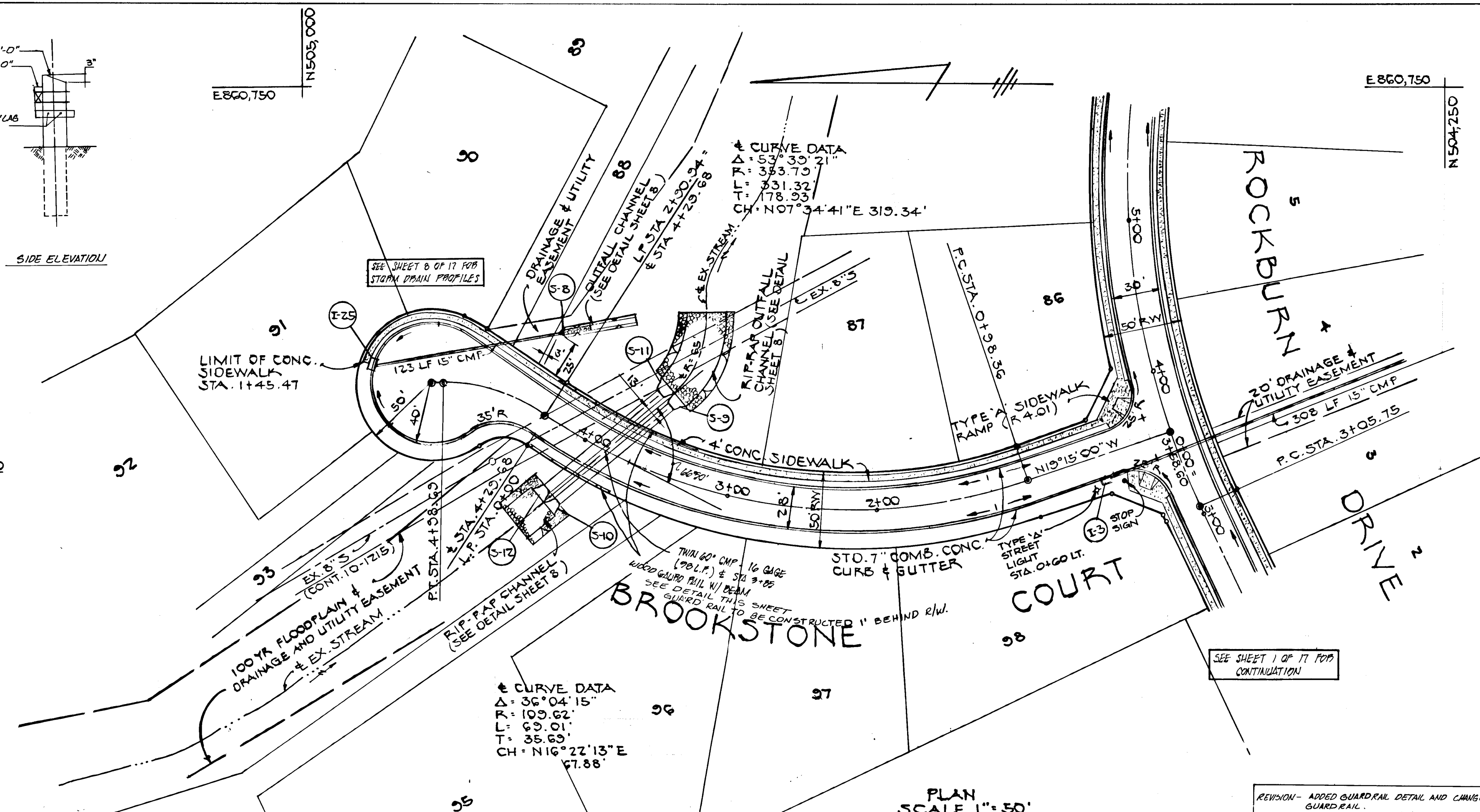
APPROVED: HOWARD CO. DEPT. OF PUBLIC WORKS

Charles W. McCreary 6/20/88
CHIEF, LAND DEVELOPMENT DIVISION DATE
Dravida W. McCreary 7/6/88
CHIEF, BUREAU OF HIGHWAYS DATE

Kearney & Ray 7-8-88
DATE

APPROVED OFFICE OF PLANNING AND ZONING

Marsha J. DeLough 7/13/88
COMMUNITY PLANNING AND LAND DEVELOPMENT DATE



PLAN SCALE 1" = 50'

ROCKBURN TOWNSHIP
SECTION 1-AREA 1
LOTS 1-102
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

BROOKSTONE COURT
PLAN AND PROFILE

OWNER AND DEVELOPER
LOWAL CORPORATION
7775 NEW YORK LANE
GLEN BURNIE, MARYLAND 21061

SCALE AS SHOWN DATE 4-27-88 DWG. NO. 5 OF 17
DES. O.B. DRN. O.B. CHK. C.C.

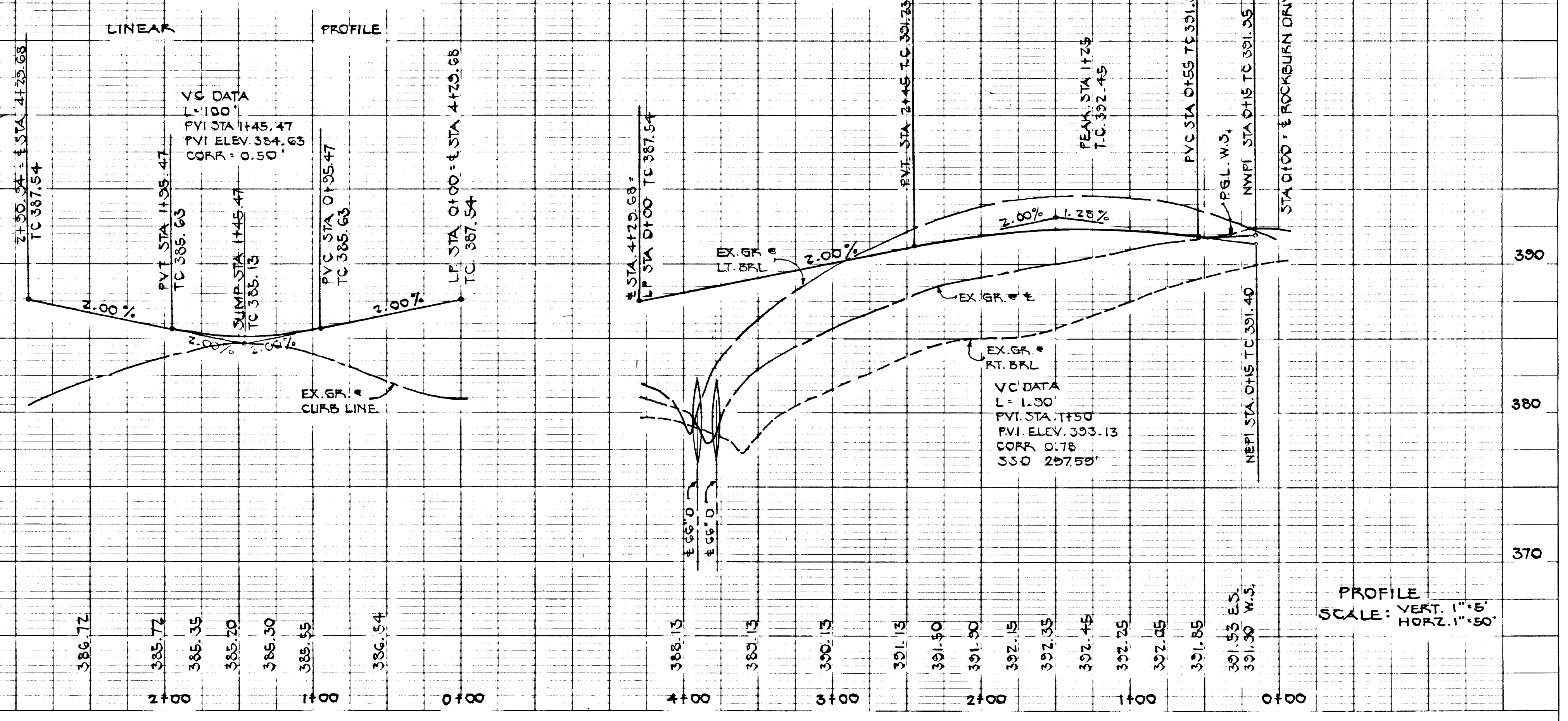
FISHER COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



REVISION - ADDED GUARD RAIL DETAIL AND CHANGED GUARD RAIL. 11/6/80 By: J.S.

PROFILE SURVEYED
GRADES CHECKED
STRUCTURE NOTATIONS CHECKED

BROOKSTONE COURT



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

1323

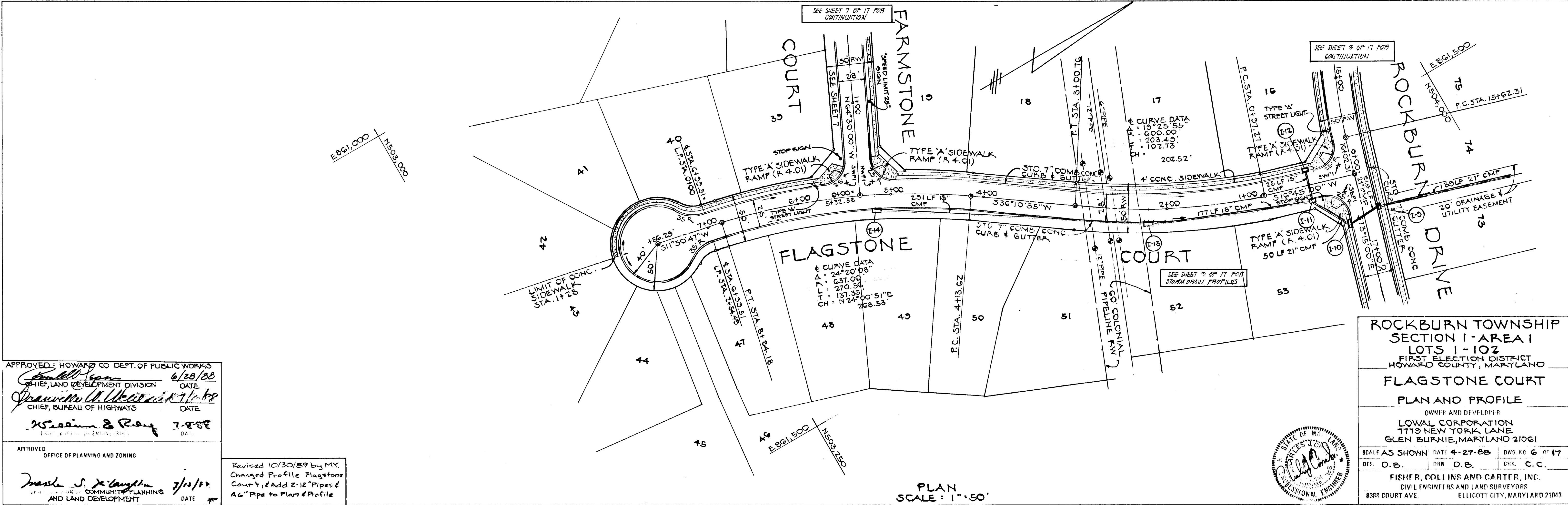
PL 11
 SURVEYED
 PLOTTED
 CHECKED
 RT. OF WAY CHECKED
 NOTE BOOK NO.

APPROVED: HOWARD CO DEPT. OF PUBLIC WORKS
 CHIEF, LAND DEVELOPMENT DIVISION
 DATE: 6/28/88
 DRAWN: M. W. ...
 CHIEF, BUREAU OF HIGHWAYS
 DATE: 7/1/88
 W. ... & ...
 DATE: 7/1/88

APPROVED
 OFFICE OF PLANNING AND ZONING
 DATE: 7/1/88
 Revised 10/30/89 by MY.
 Changed Profile Flagstone Court, Add 2-12" Pipes & A6" Pipe to Plan & Profile

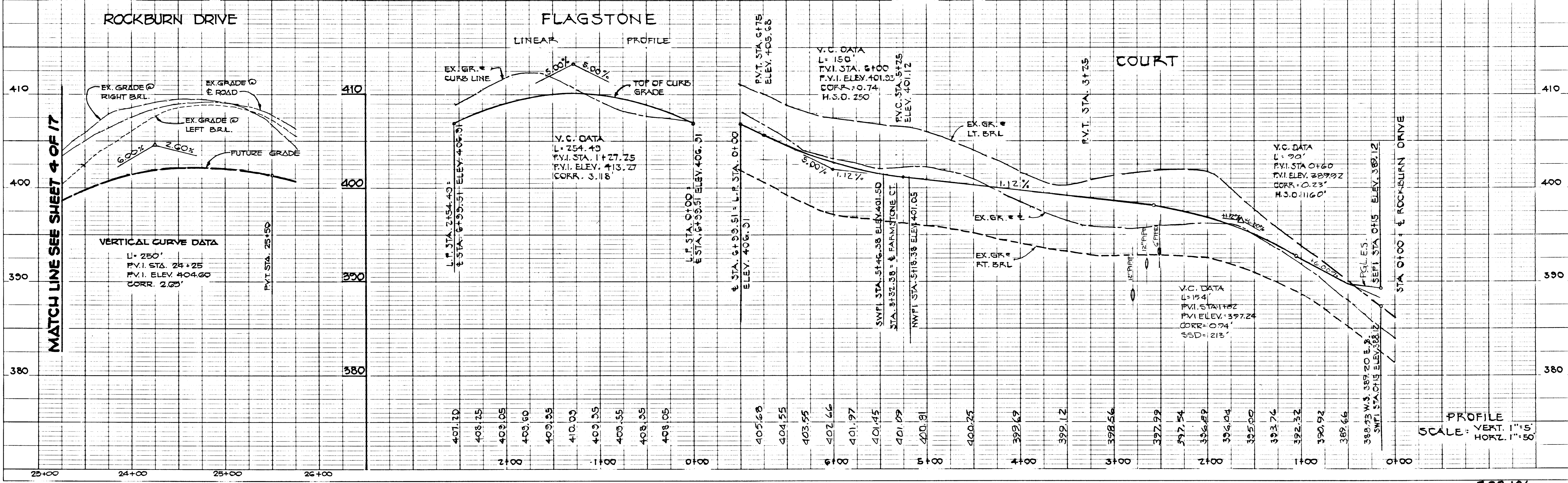


ROCKBURN TOWNSHIP
 SECTION 1 - AREA 1
 LOTS 1-102
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
FLAGSTONE COURT
 PLAN AND PROFILE
 OWNER AND DEVELOPER
 LOWAL CORPORATION
 7779 NEW YORK LANE
 GLEN BURNIE, MARYLAND 21061
 SCALE AS SHOWN DATE: 4-27-88 DWG NO: 6 0' 17
 DES. D.B. DRN D.B. CHK. C.C.
 FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



PLAN SCALE: 1" = 50'

PROFILE
 SURVEYED
 PLOTTED
 CHECKED
 STRUCTURE NOTATIONS OK'D
 NOTE BOOK NO.



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

1373

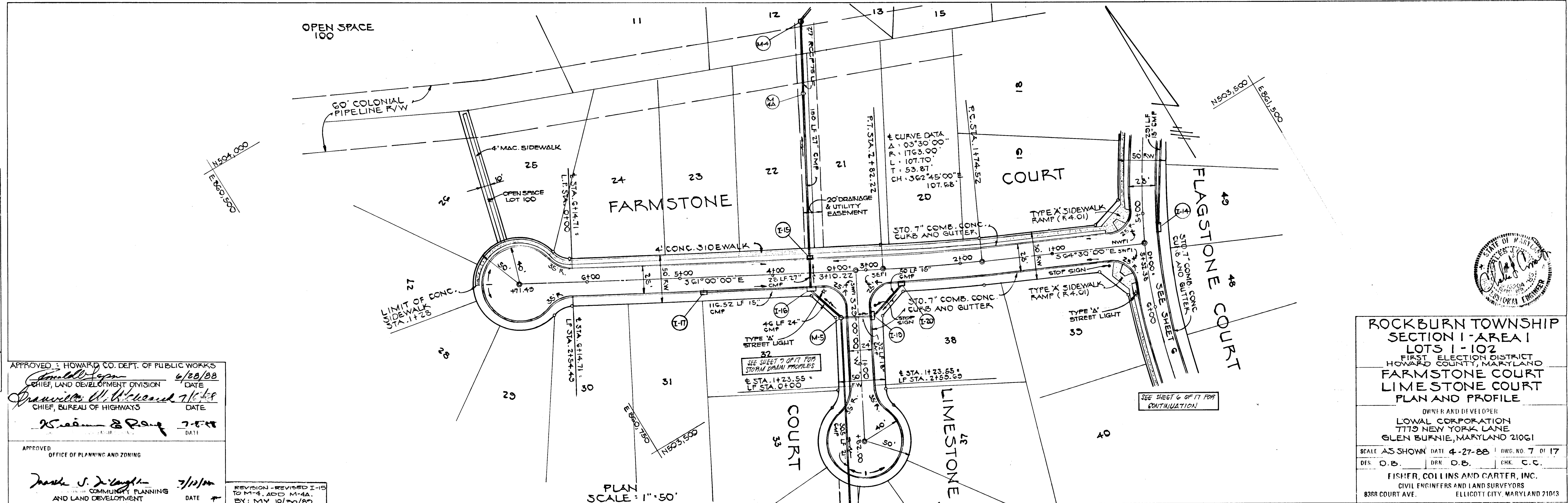
NO. 1
DATE
SURVEYED
ALIGNED
CHECKED
BY
RT. OF WAY CHECKED

APPROVED: HOWARD CO. DEPT. OF PUBLIC WORKS
Donald Egan 6/28/88
 CHIEF, LAND DEVELOPMENT DIVISION
Drummond W. Woodard 7/10/88
 CHIEF, BUREAU OF HIGHWAYS
James B. Rapp 7-8-88

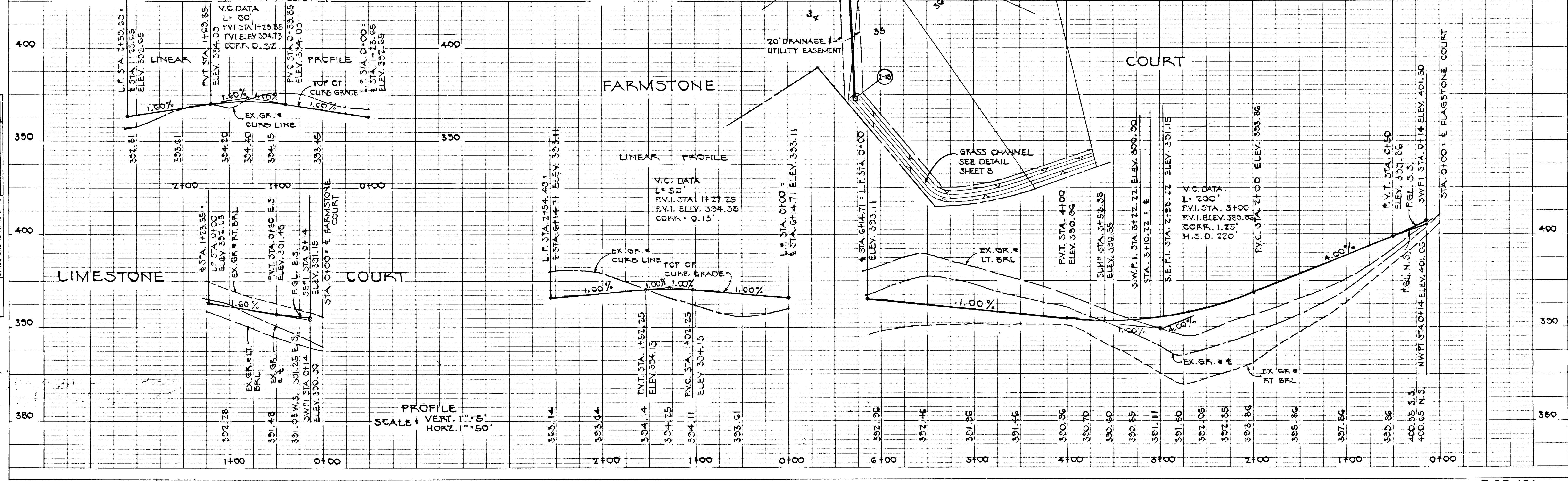
APPROVED
 OFFICE OF PLANNING AND ZONING
Frank J. Knight 7/12/88
 COMMUNITY PLANNING
 AND LAND DEVELOPMENT

REVISION - REVISED I-15
 TO M-14, ADD M-14A.
 BY: MY 10/20/89

PROF. L.C. SURVEYED
 PLOTTED
 CHECKED
 BY
 STRUCTURE NOTATION CHECKED



PLAN SCALE: 1" = 50'

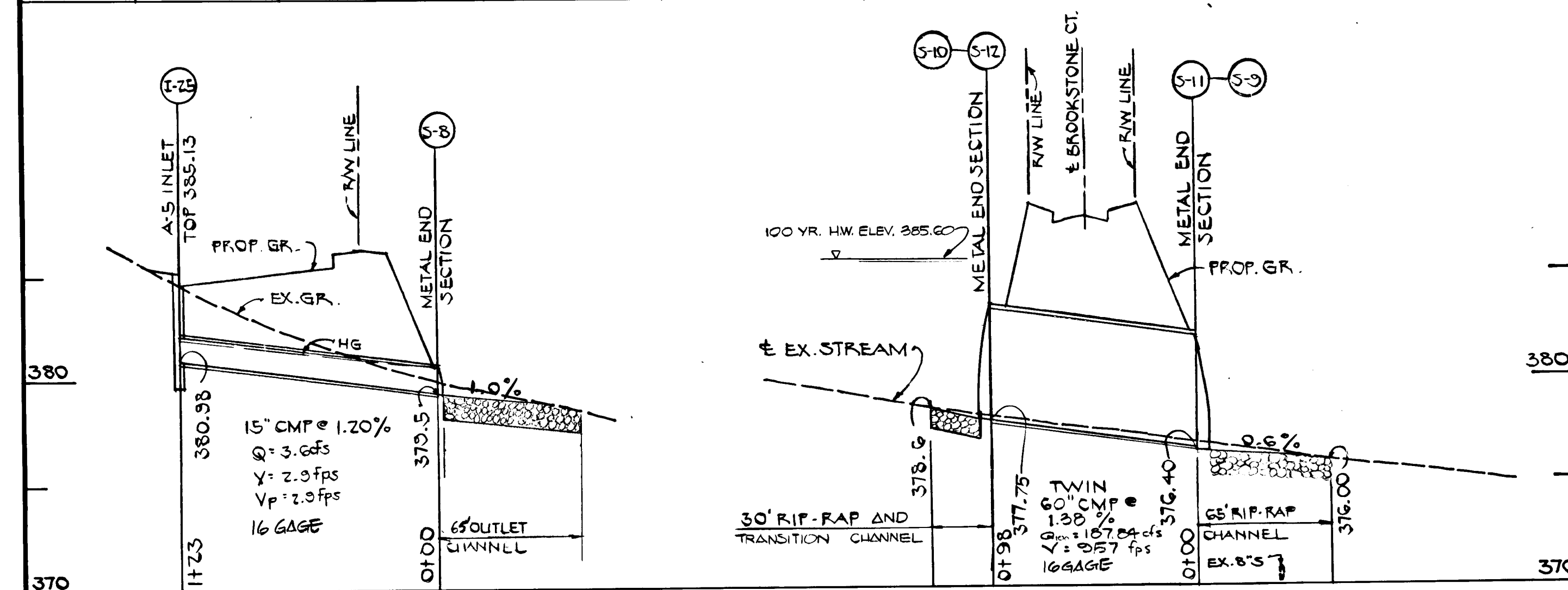
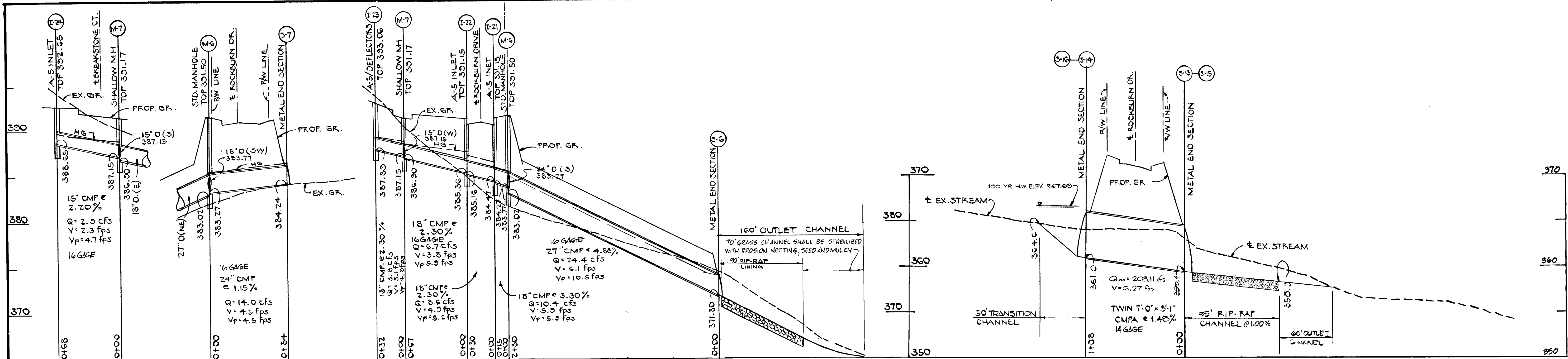


PROFILE SCALE: VERT. 1" = 5', HORIZ. 1" = 50'

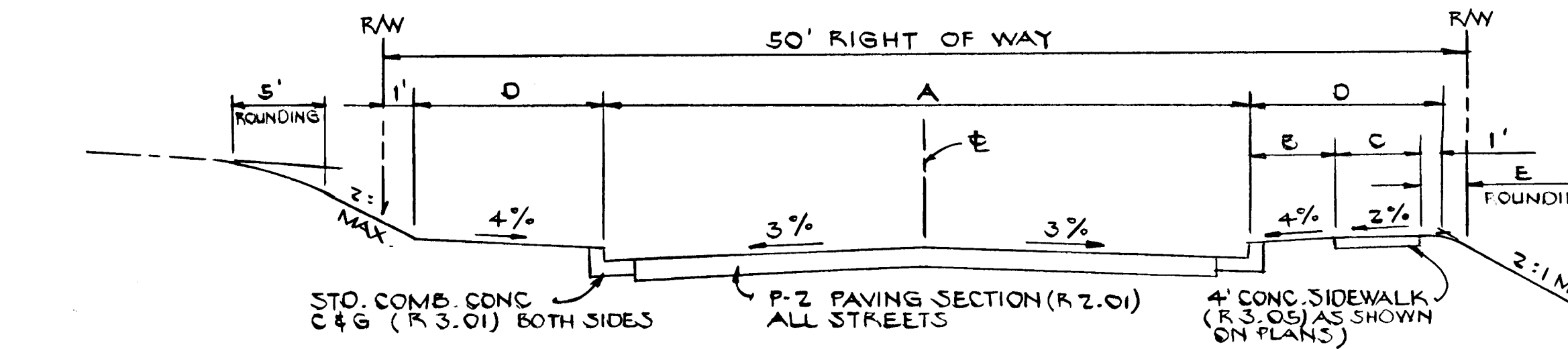


ROCKBURN TOWNSHIP
 SECTION 1 - AREA 1
 LOTS 1-102
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
**FARMSTONE COURT
 LIMESTONE COURT
 PLAN AND PROFILE**
 OWNER AND DEVELOPER
 LOWAL CORPORATION
 7779 NEW YORK LANE
 GLEN BURNIE, MARYLAND 21061
 SCALE AS SHOWN DATE 4-27-88 DWG. NO. 7 OF 17
 DR. O.B. DRN. O.B. CHK. C.C.
 FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

1323

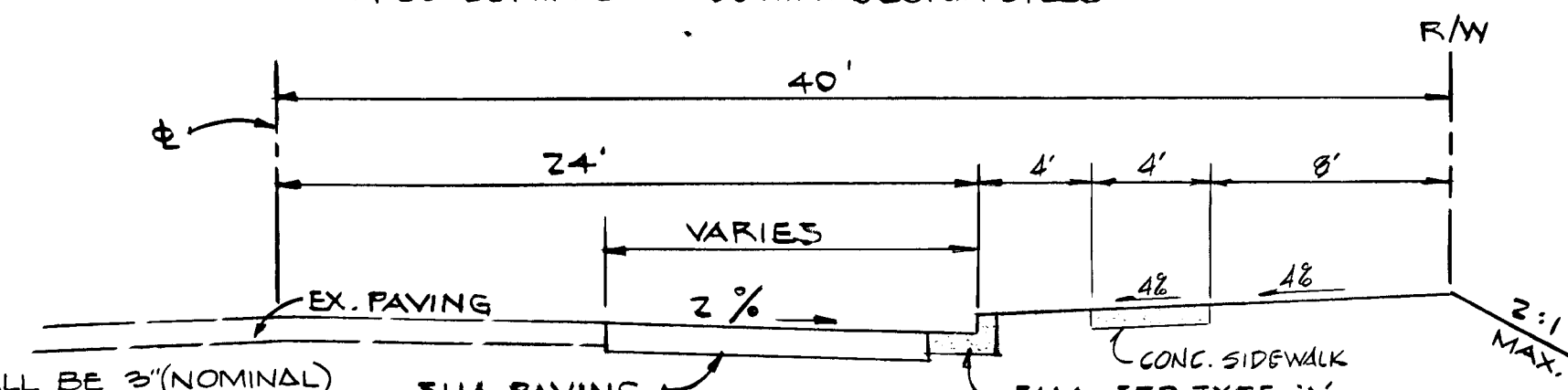


STRUCTURE SCHEDULE							
NO	TYPE	INV. IN	INV. OUT	TOP	LOCATION	REMARKS	
I-1	LOG 5' INLET	384.20	384.00	387.65	STA 0+85 24' LT	SHA 374.31	
I-2	A-10	-	387.56	391.16	STA 0+75 15' LT	SD 4.02	
I-3	A-5	-	388.46	391.85	STA 0+50 14' LT	SD 4.01	
I-4	A-10	363.14	362.94	363.53	STA 1+52 15' LT	SD 4.02	
I-5	A-10	363.66	363.46	363.53	STA 1+152 15' RT	SD 4.02	
I-6	A-5	364.61	364.36	370.38	STA 0+50 12' RT	SD 4.01	
I-7	A-5	365.18	364.98	370.38	STA 0+50 12' LT	SD 4.01	
I-8	A-5/DEFLEC.	-	365.48	370.60	STA 12+47 15' RT	SD 4.01, 4.83	
I-9	"	-	370.28	370.98	389.79	STA 16+42.31 15' LT	SD 4.01, 4.83
I-10	A-5/DEFLEC.	381.21	381.01	392.00	STA 16+53 15' RT	SD 4.01, 4.83	
I-11	A-5	-	382.41	389.26	STA 0+50 12' LT	SD 4.01	
I-12	A-5/DEFLEC.	-	383.13	389.64	STA 0+50 12' RT	SD 4.01, 4.83	
I-13	A-10/DEFLEC.	386.25	386.05	397.42	STA 2+20 14' LT	SD 4.02, 4.83	
I-14	A-10	-	391.50	400.28	STA 3+15 14' LT	SD 4.02	
I-15	A-5	382.77	382.57	390.55	STA 3+56.38 14' RT	SD 4.01	
I-16	A-10	383.53	383.44	390.55	STA 3+56.38 14' LT	SD 4.02	
I-17	A-5	-	387.13	391.71	STA 4+15 14' LT	SD 4.01	
I-18	O	-	393.77	393.33	SEE PLAN	SD 4.11	
I-19	A-10	386.21	385.96	391.48	STA 0+50 12' LT	SD 4.02	
I-20	A-5/DEFLEC.	-	386.96	391.60	STA 2+63 14' LT	SD 4.01, 4.83	
I-21	A-5	384.47	384.21	391.15	STA 2+10 15' LT	SD 4.01	
I-22	A-5	385.36	385.16	391.15	STA 2+10 15' RT	SD 4.01	
I-23	A-5/DEFLEC.	-	387.83	393.06	STA 0+50 15' LT	SD 4.01, 4.83	
I-24	A-5	-	388.65	392.65	STA 10+15 15' RT	SD 4.01	
I-25	A-5	-	380.98	385.13	LP STA 1+45.47	SD 4.01	
I-26	O	-	372.00	375.23	SEE PLAN	SD 4.11	
M-4A	STD. MANHOLE	371.75	271.50	381.90	SEE PLAN	G 5.02	
M-2	"	366.84	366.14	372.25	STA 1+65 15' RT	G 5.02	
M-3	"	370.23	370.03	375.60	SEE PLAN	G 5.02	
M-4	"	370.23	370.03	375.60	SEE PLAN	G 5.02	
M-5	"	382.77	384.38	391.60	STA 0+50 20' RT	G 5.01	
M-6	STD. MANHOLE	383.22	383.02	391.50	STA 2+117 28' RT	G 5.02	
M-7	SHALLOW MANHOLE	387.15	386.30	391.17	STA 20+40 16.5' RT	G 5.05	
S-1	METAL END SECTION	-	378.75	-	SEE PLAN	SD 5.61	
S-2	"	-	377.00	-	SEE PLAN	"	
S-3	CONC. END SECTION	-	367.59	-	STA 1+37 30' LT	SD 5.52	
S-4	"	-	366.00	-	STA 16+42.31 20' LT	"	
S-6	METAL END SECTION	-	371.80	-	SEE PLAN	SD 5.61	
S-7	"	-	364.24	-	STA 1+57 40' RT	"	
S-8	"	-	370.50	-	SEE PLAN	"	
S-9	"	-	376.40	-	STA 3+56 48' RT	"	
S-10	"	-	377.08	-	STA 3+96 45' LT	"	
S-11	"	-	376.40	-	STA 3+68 45' RT	"	
S-12	"	-	377.08	-	STA 4+08 41' LT	SD 5.61	
S-13	"	-	360.40	-	STA 10+83 44' LT	ARMCO OK EQUAL	
S-14	"	-	361.26	-	STA 10+20 48' RT	"	
S-15	"	-	360.40	-	STA 10+71 51' LT	"	
S-16	"	-	361.26	-	STA 10+08 41' RT	ARMCO OK EQUAL	



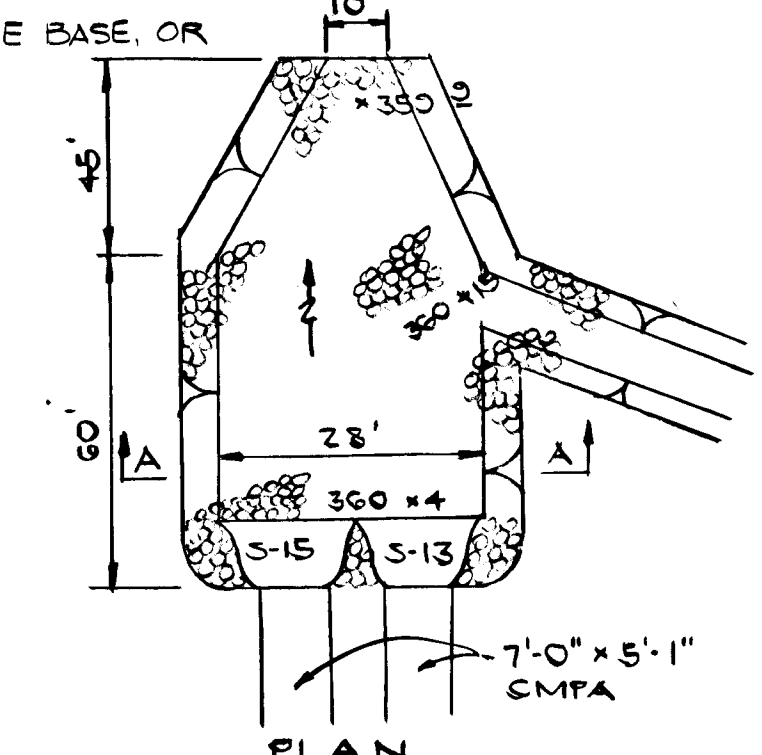
ROAD NAME	A	B	C	D	E
ROCKBURN DRIVE	30'	4'	4'	9'	2'
FLAGSTONE COURT	28'	4'	4'	9'	2'
BREAKSTONE COURT	28'	4'	4'	9'	2'
BROOKSTONE COURT	28'	4'	4'	9'	2'
FARMSTONE COURT	28'	4'	4'	9'	2'
FIELDSTONE COURT	24'	-	-	10'	4'
LIMESTONE COURT	24'	-	-	10'	4'

TYPICAL SECTION FOR SUBDIVISION STREETS R-20 ZONING 30 MPH DESIGN SPEED



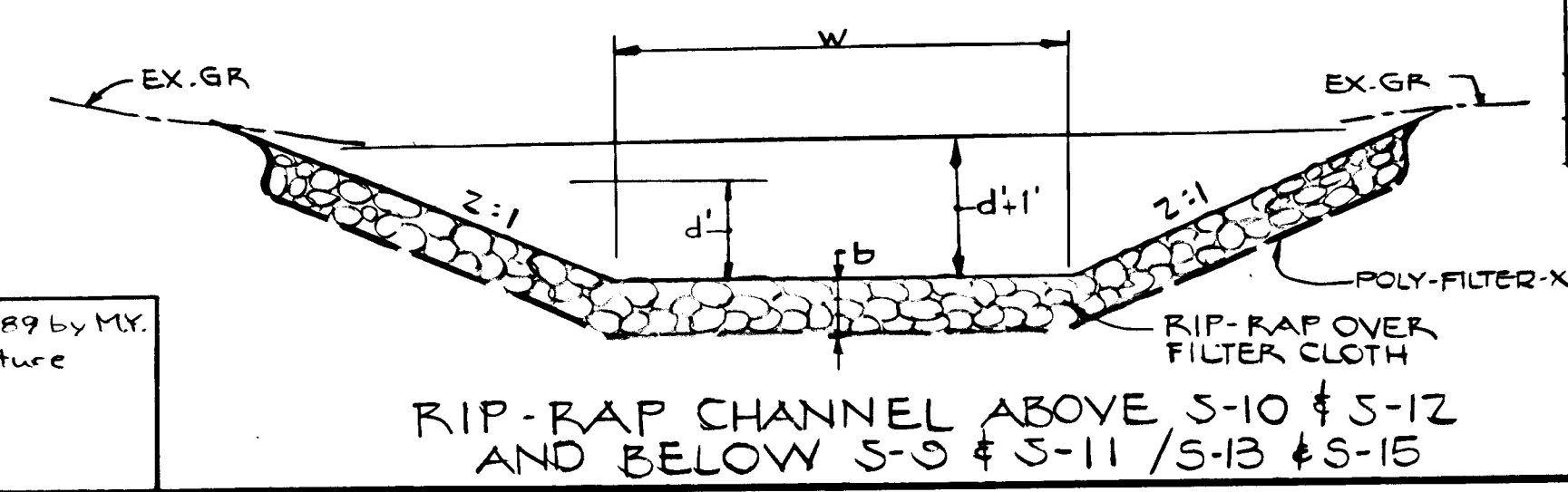
NOTE: SHA SECTION SHALL BE 3" (NOMINAL) BITUMINOUS CONCRETE SURFACE IN 2-1/2" LAYERS UTILIZING A 5/8" MIXTURE PLUS 5" (NOMINAL) BITUMINOUS CONCRETE BASE (OR 5" SAND ASPHALT BASE) ON ONE OF THE FOLLOWING:
 4" CR-G, OR
 4" DENSE GRADED AGGREGATE BASE, OR
 6" GRAVEL

TYPICAL HALF SECTION MONTGOMERY ROAD



RIP-RAP CHANNEL BELOW S-13 & S-15

RIP-RAP CHANNEL DESIGN DATA													
STRUCTURE	A*	P.R.	R	R 2/3	5%	5 1/2	7	Q cfs.	V fps.	d ft.	W ft.	RIP-RAP SIZE	
												d MAX	
S-1	22224	5.8166	0.2821	0.5264	1.00%	0.1000	0.04	4.8477	1.9563	0.48	3.67	4	6
S-2	15295	6.2952	0.2522	0.4403	0.50%	0.0700	0.04	17.690	11.666	0.35	3.67	4	6
S-3	10.845	1.6736	0.9228	0.9518	1.28%	0.1131	0.04	43.3881	4.0005	1.27	6.00	6	14
S-4	4.0280	1.7905	0.5179	0.6449	2.86%	0.2169	0.04	16.5916	4.0517	0.65	5.00	6	14
S-6	4.0182	2.2622	0.5307	0.6593	4.88%	0.2209	0.04	26.4413	5.3795	0.64	6.4	6	14
S-8	2.0152	5.6677	0.3556	0.5019	1.00%	0.1000	0.04	3.7575	11.844	0.44	3.7	4	6
S-9/S-11	79423	36.1294	2.1613	1.6717	0.60%	0.0775	0.04	381.99	4.6105	2.625	25	12	18
S-13/S-15	10200	14.1464	2.4228	1.8297	0.40%	0.0632	0.04	437.06	4.2249	3.00	28	12	18



RIP-RAP CHANNEL ABOVE S-10 & S-12 AND BELOW S-9 & S-11/S-13 & S-15

APPROVED: HOWARD CO. DEPT. OF PUBLIC WORKS
 CHIEF, LAND DEVELOPMENT DIVISION
 DATE: 6/28/88
 APPROVED: [Signature]
 CHIEF, BUREAU OF HIGHWAYS
 DATE: 7-2-88
 APPROVED: [Signature]
 CHIEF, BUREAU OF ENGINEERING
 DATE: 7-2-88
 APPROVED: [Signature]
 OFFICE OF PLANNING AND ZONING
 DATE: []

Revised 10/30/89 by M.Y.
 Revised structure schedule

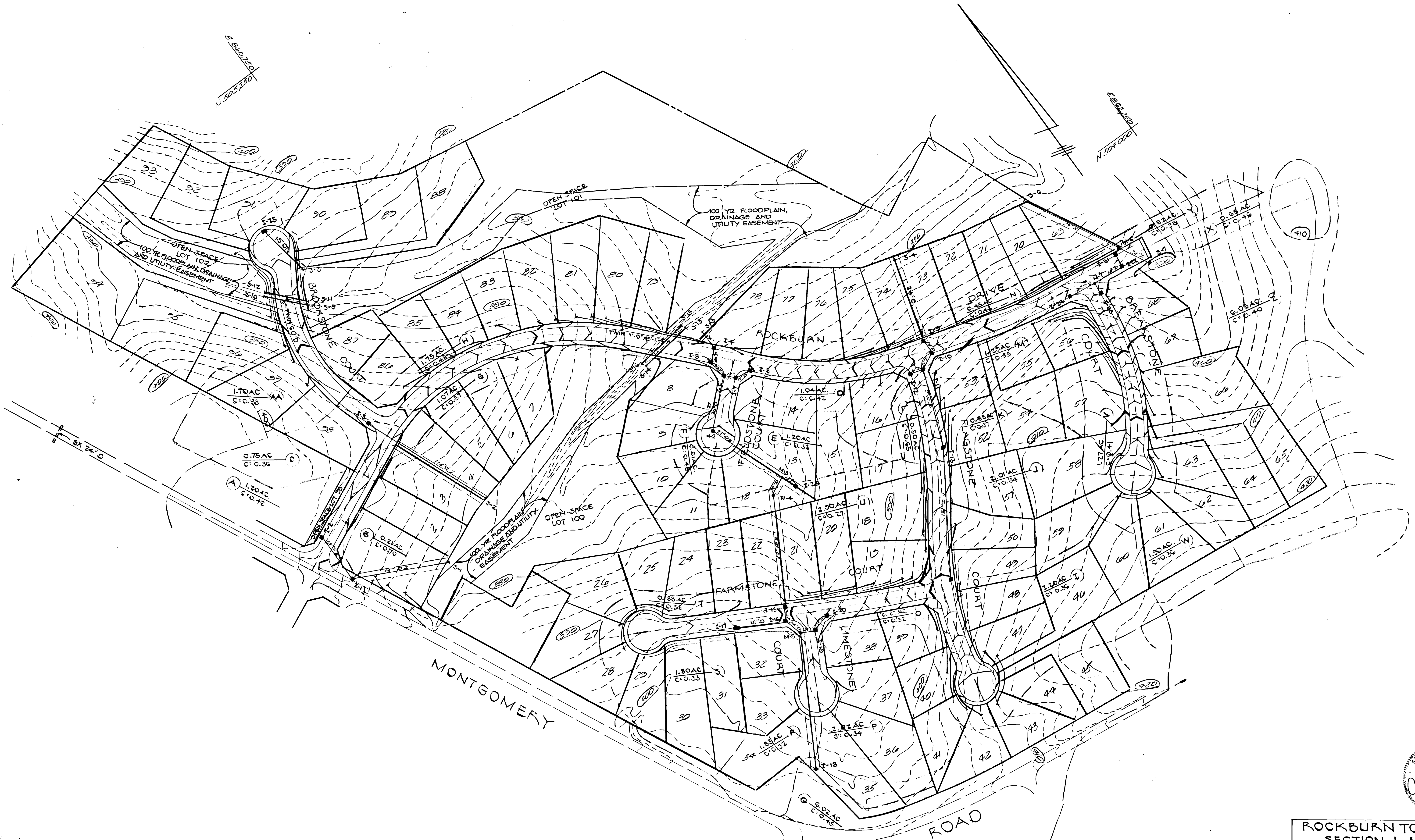
ROCKBURN TOWNSHIP SECTION 1-AREA 1
 LOTS 1-102
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER
 LOWAL CORPORATION
 7713 NEW YORK LANE
 GLEN BURNIE, MARYLAND 21061

SCALE AS SHOWN DATE 4-27-88 DWG. NO. 8 OF 17
 DES: D.B. DFN: O.B. CHK: C.C.

FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043
 F-88-186

1373



ROCKBURN TOWNSHIP
 SECTION 1-AREA 1
 LOTS 1-102
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
DRAINAGE AREA MAP
 OWNER AND DEVELOPER,
 LOWAL CORPORATION
 7775 NEW YORK LANE
 GLEN BURNIE, MARYLAND 21061
 SCALE: AS SHOWN DATE: 4-27-88 DWG. NO. 10 OF 17
 DES. D.B. DRN. D.B. CHK. C.C.
 FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

APPROVED - HOWARD CO. DEPT. OF PUBLIC WORKS
Small
 CHIEF, LAND DEVELOPMENT DIVISION DATE: 6/28/88
W. W. ...
 CHIEF, BUREAU OF HIGHWAYS DATE: 7/1/88
...
 CHIEF, BUREAU OF ENGINEERING DATE: 7/5/88
 APPROVED
 OFFICE OF PLANNING AND ZONING
...
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE:

SCALE:
 1" = 100'

1373

APPROVED: HOWARD CO. DEPT. OF PUBLIC WORKS
 CHIEF, LAND DEVELOPMENT DIVISION DATE: 6/27/88
 CHIEF, BUREAU OF HIGHWAYS DATE:
 CHIEF, BUREAU OF ENGINEERING DATE:
 APPROVED OFFICE OF PLANNING AND ZONING
 DATE: 6/27/88



SCALE
 1" = 50'

REVISION - REVISED TREES ON ROCKBURN DRIVE AND BROOKSTONE CT. 11/1/90

ROCKBURN TOWNSHIP
 SECTION I-AREA I
 LOTS 1-102
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

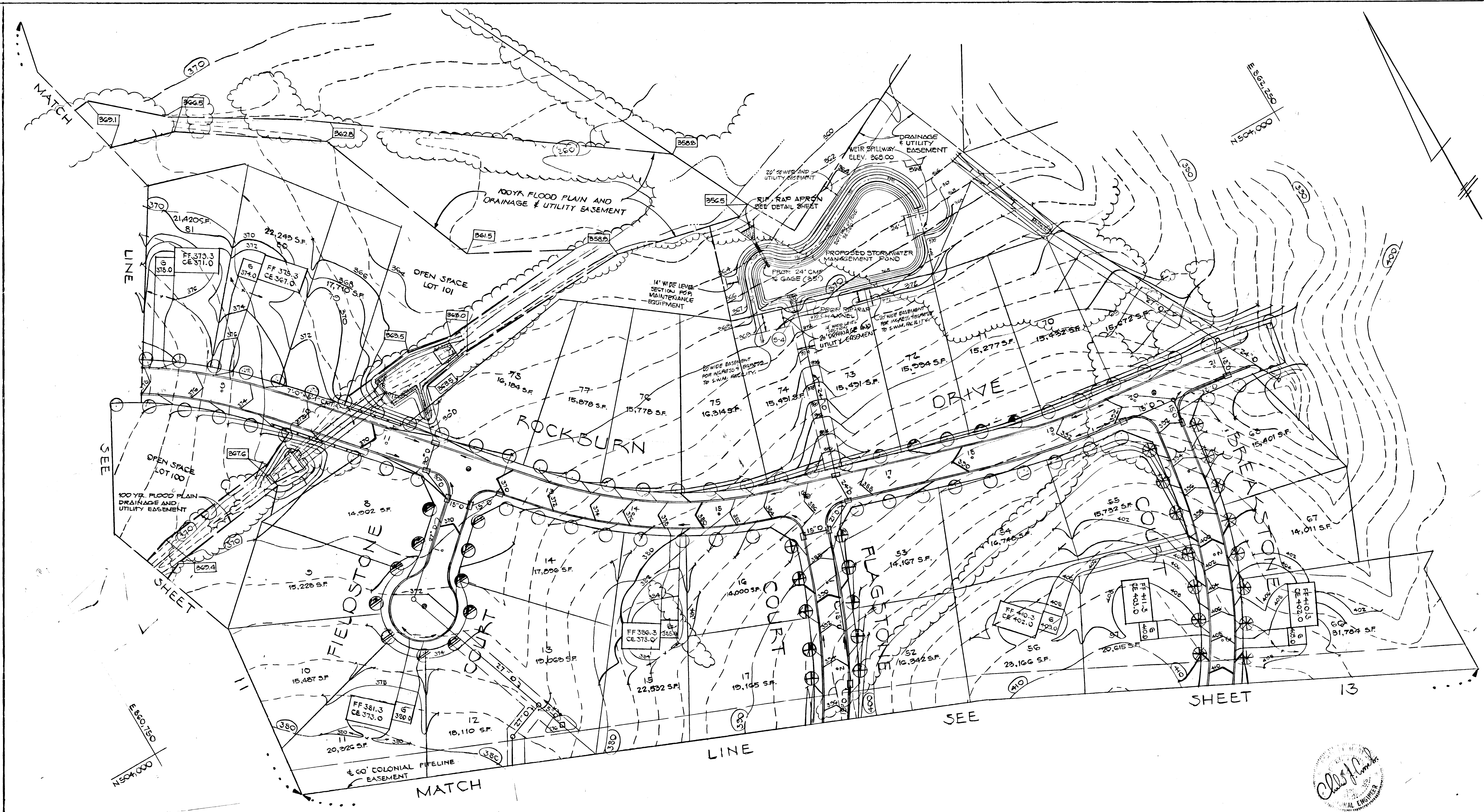
GRADING AND
 STREET TREE PLAN

OWNER AND DEVELOPER
 LOWAL CORPORATION
 7775 NEW YORK LANE
 GLEN BURNIE, MARYLAND 21061

SCALE: AS SHOWN	DATE: 4-27-88	DWG. NO. 11 OF 17
DES. O. B.	DRN. D. B.	CHK. C. C.

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





APPROVED: HOWARD CO. DEPT. OF PUBLIC WORKS
Donald J. ... 6/28/68
 CHIEF, LAND DEVELOPMENT DIVISION DATE
Donald W. ...
 CHIEF, BUREAU OF HIGHWAYS DATE
... 7/1/68
 CHIEF, BUREAU OF ENGINEERING DATE
 APPROVED OFFICE OF PLANNING AND ZONING
... 7/1/68
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

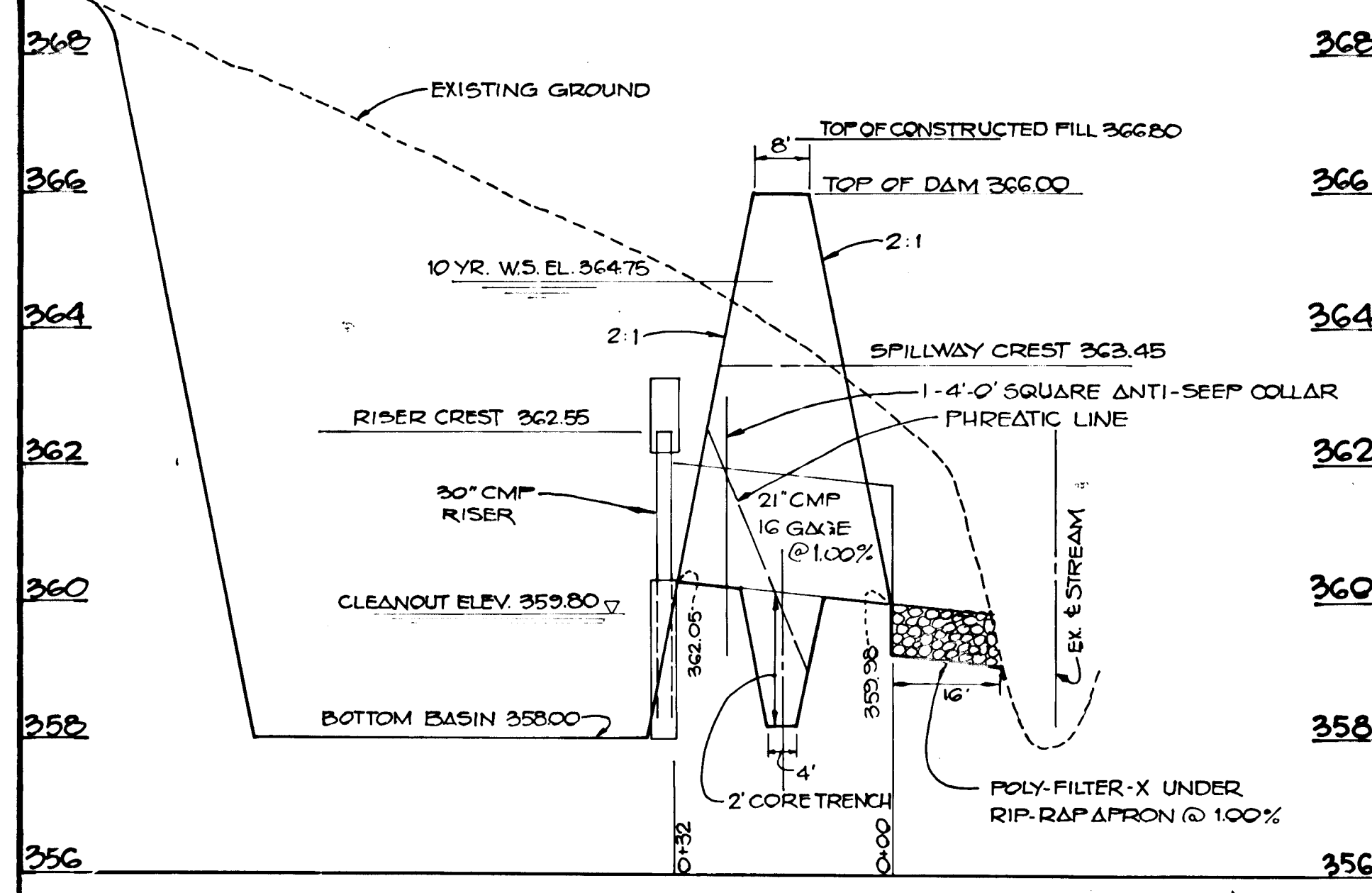
1323

SCALE: 1" = 50'

REVISION - REVISED ALL TREE* NOV 21, 1970 BY: U.S.



ROCKBURN TOWNSHIP
 SECTION 1-Area 1
 LOTS 1-102
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 GRADING AND STREET TREE PLAN
 OWNER AND DEVELOPER:
 LOWAL CORPORATION
 7770 NEW YORK LANE
 GLEN BURNIE, MARYLAND 21061
 SCALE AS SHOWN DATE 4-27-68 DWG NO 12 OF 17
 DES: D.B. DRN: D.B. CHK: C.C.
 FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURTAVE. ELLICOTT CITY, MARYLAND 21043
 F-88-186



TEMPORARY SEDIMENT BASIN PROFILE

SCALE: 1" = 20' HORZ.
1" = 2' VERT.

TRAP #2 S.O.S.T. (ST. 3)
D.A. = 2.0 AC ±
VOLUME REQUIRED = 2 x 1800' = 3600 CF
VOLUME PROVIDED = 3904 CF
BOTTOM DIM. = 40' x 40'
BOTTOM ELEV. = 378.0
WEIR CREST = 380.0
TOP ELEV. = 382.0
LENGTH OF WEIR = 8.0'
CLEANOUT ELEV. = 379.0

TRAP #1 S.O.S.T. (ST. 4)
D.A. = 5.0 AC ±
VOL. REQ. 30 x 1800 = 5400 CF
VOL. PROV. 5400 CF
SIZE 72' x 24' x 3'
CREST WEIR 378.0
BOT. TRAP 374.0
LENGTH OF WEIR 12.0'
CLEANOUT 375.5

NOTE: CONTRACTOR SHALL EXCAVATE APRON PRIOR TO CONSTRUCTION OF CULVERT AND USE AS A TEMP. SEDIMENT TRAP

ENGINEER'S CERTIFICATE
I HEREBY 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 C. Fisher 2/24/88
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE
I/WE 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 SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

James R. Blay 2/24/88
SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Christine M. Helm 6/21/88
USR, SOIL CONSERVATION DISTRICT DATE

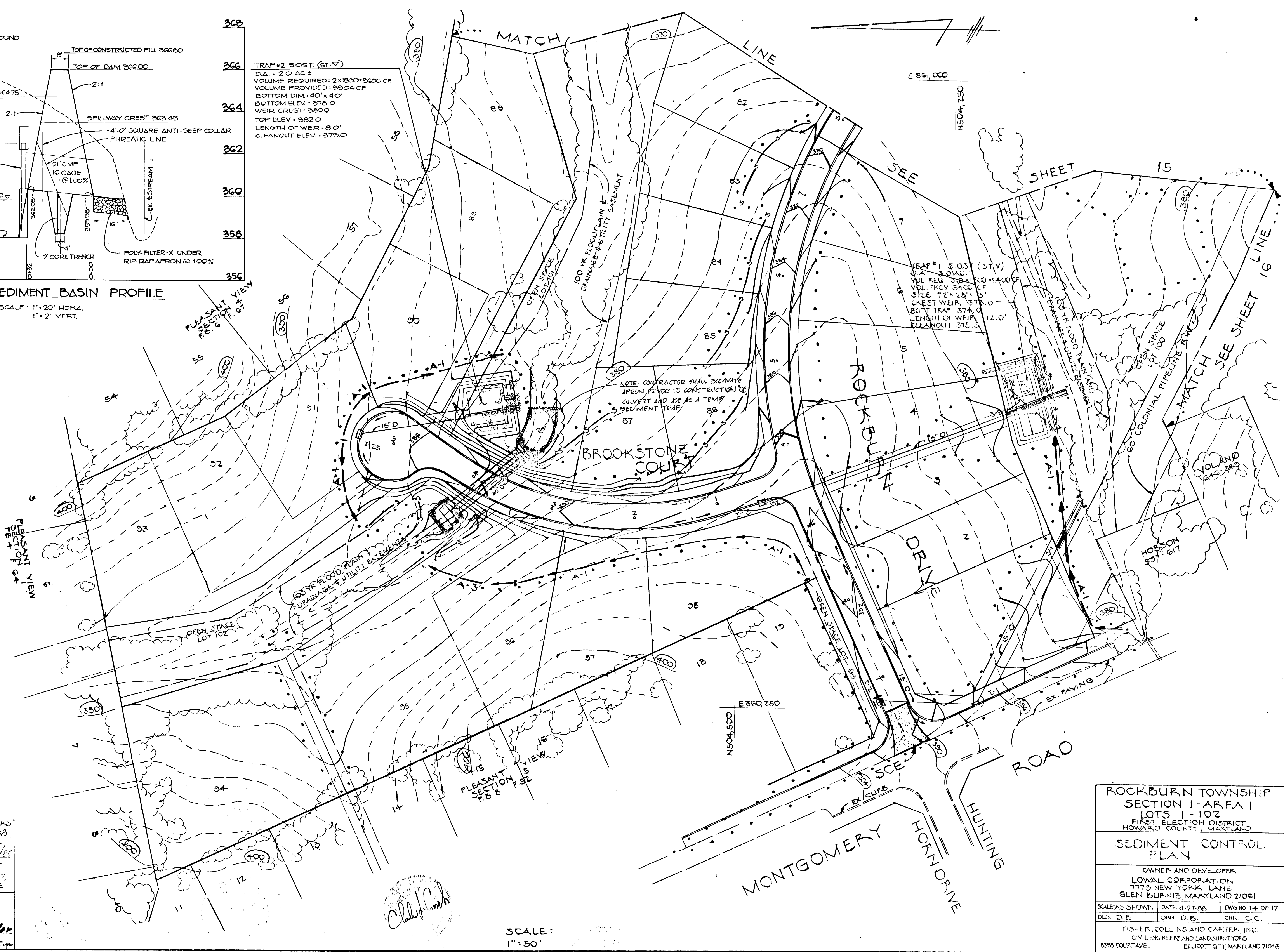
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Stephen L. Fisher 6/21/88
DISTRICT HOWARD SOIL CONSERVATION DISTRICT

APPROVED: HOWARD CO. DEPT. OF PUBLIC WORKS
Charles C. Fisher 6/20/88
CHIEF, LAND DEVELOPMENT DIVISION DATE

James R. Blay 7/22/88
CHIEF, BUREAU OF HIGHWAYS DATE

James R. Blay 7/22/88
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED OFFICE OF PLANNING AND ZONING
James S. DeLong 7/10/88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE



SCALE: 1" = 50'

ROCKBURN TOWNSHIP
SECTION 1 - AREA 1
LOTS 1 - 102
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SEDIMENT CONTROL PLAN

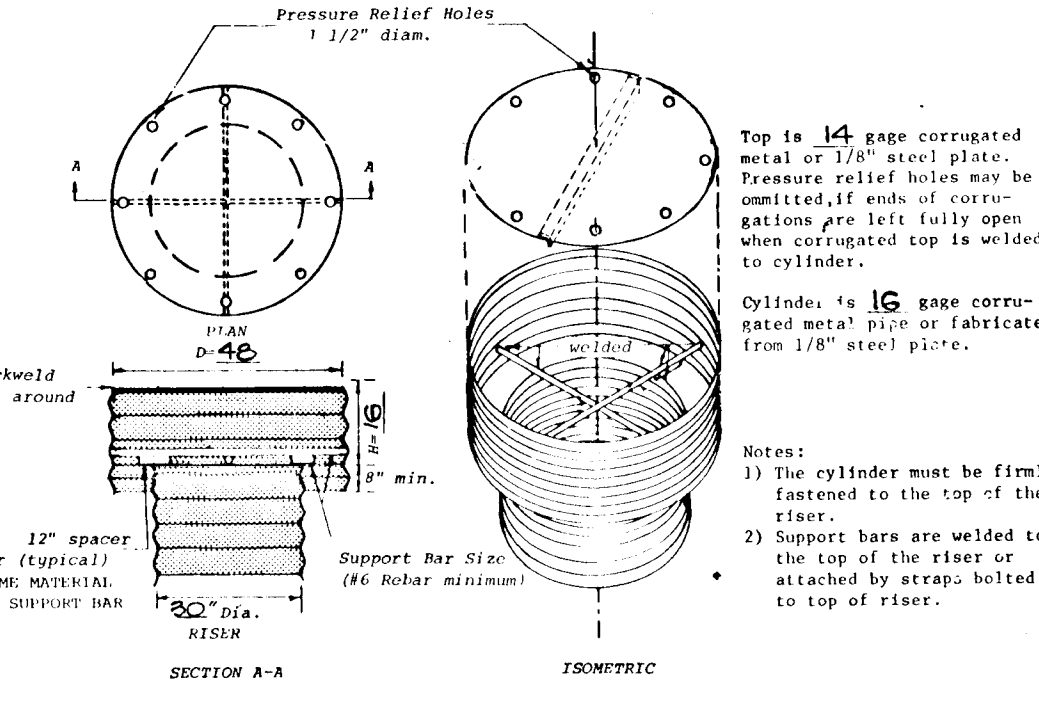
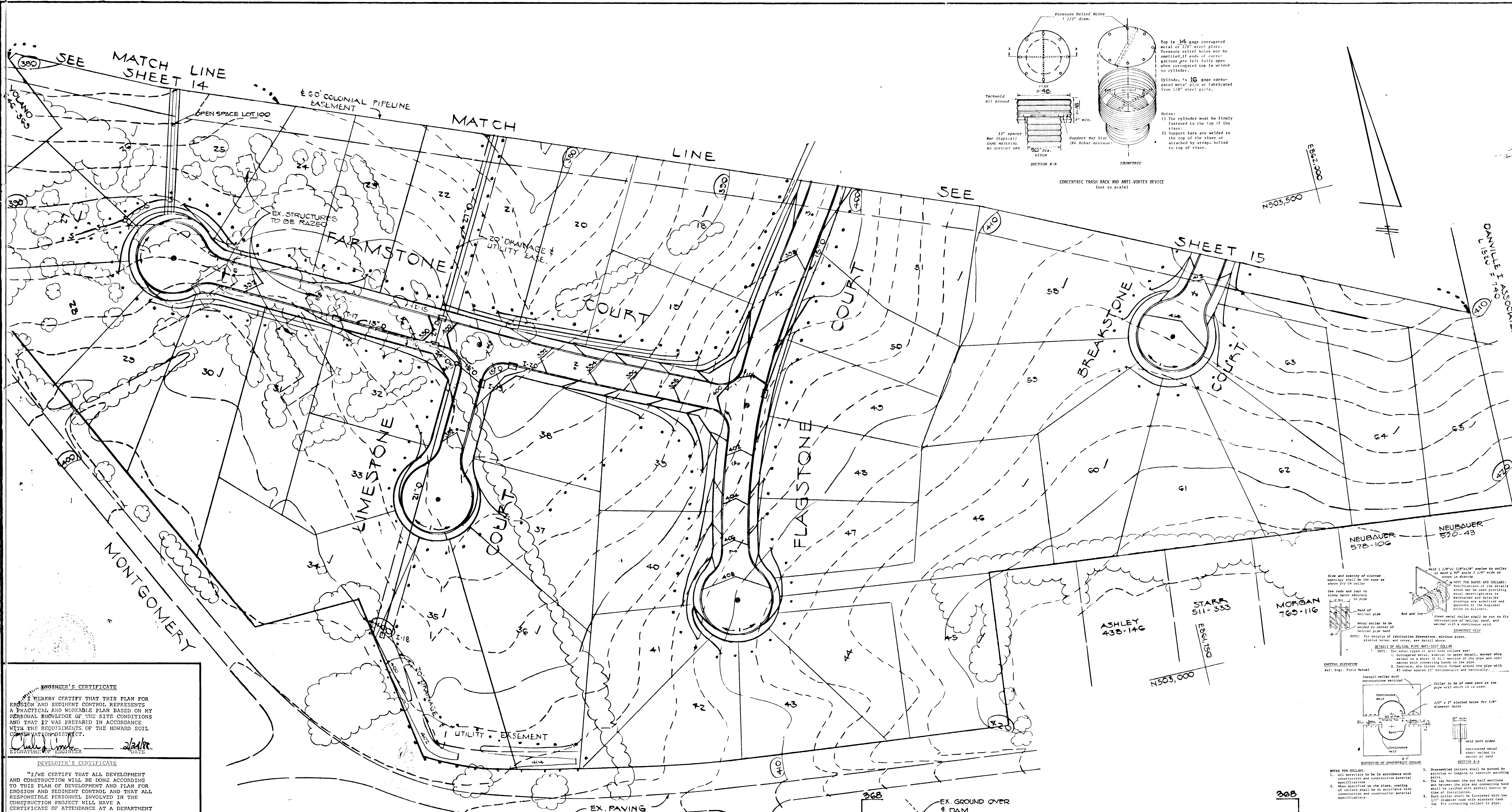
OWNER AND DEVELOPER
LOWAL CORPORATION
1770 NEW YORK LANE
GLEN BURNIE, MARYLAND 21061

SCALE AS SHOWN	DATE 4-27-88	DWG NO 14 OF 17
DES. O. B.	DRN. D. B.	CHK. C. C.

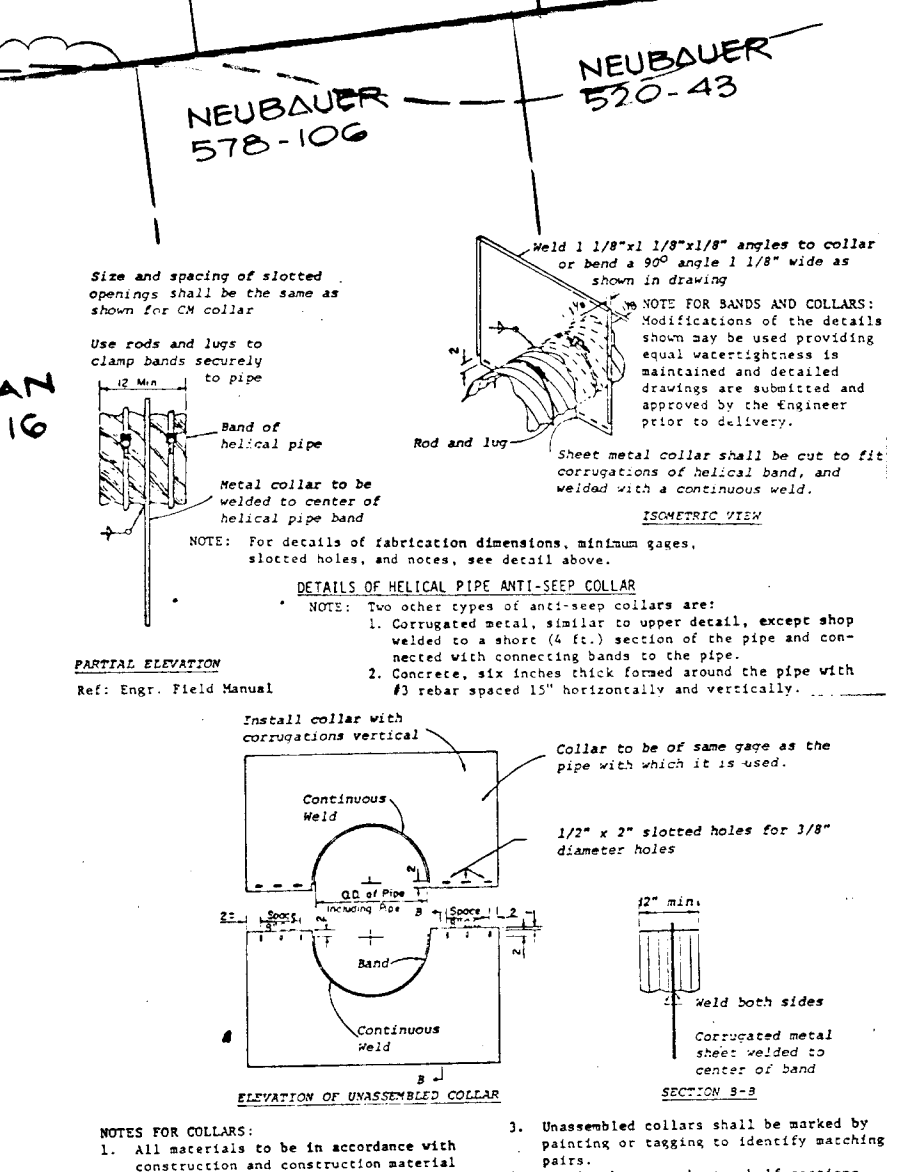
FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURTYARD, ELLICOTT CITY, MARYLAND 21043

F-88-18.6

137B



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



CORRUGATED METAL ANTI-SEEP COLLAR DETAILS

NO SCALE

ROCKBURN TOWNSHIP
SECTION 1-AREA 1
LOTS 1-102
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SEDIMENT CONTROL PLAN

OWNER AND DEVELOPER:
LOWAL CORPORATION
7773 NEW YORK LANE
GLEN BURNIE, MARYLAND 21061

SCALE AS SHOWN	DATE: 4-27-88	OWNG. NO. 16 OF 17
DES. D.B.	DRN. D.B.	CHK. C.C.

FISHER, COLLINS AND CARTEK, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
6388 COURT AVE.
ELLICOTT CITY, MARYLAND 21043

F-88-186

ENGINEER'S CERTIFICATE

I HEREBY 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. ... 2/24/88
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

"I/WE 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 SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

Howard R. ... 2/24/88
SIGNATURE OF DEVELOPER DATE

APPROVED: HOWARD COUNTY DEPT. OF PUBLIC WORKS

... 6/28/88
CHIEF, LAND DEVELOPMENT DIVISION DATE

... 7/2/88
CHIEF, BUREAU OF HIGHWAYS DATE

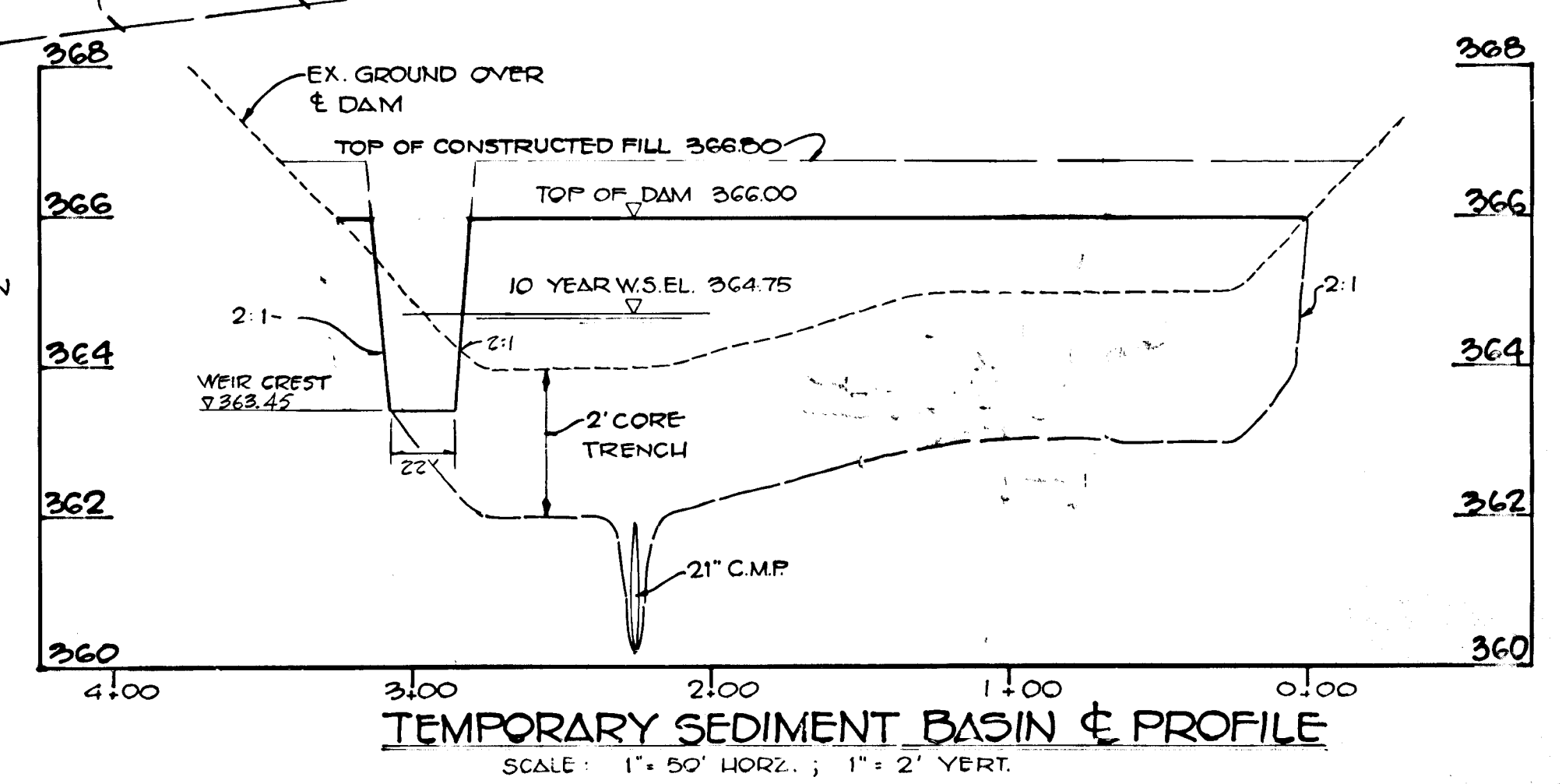
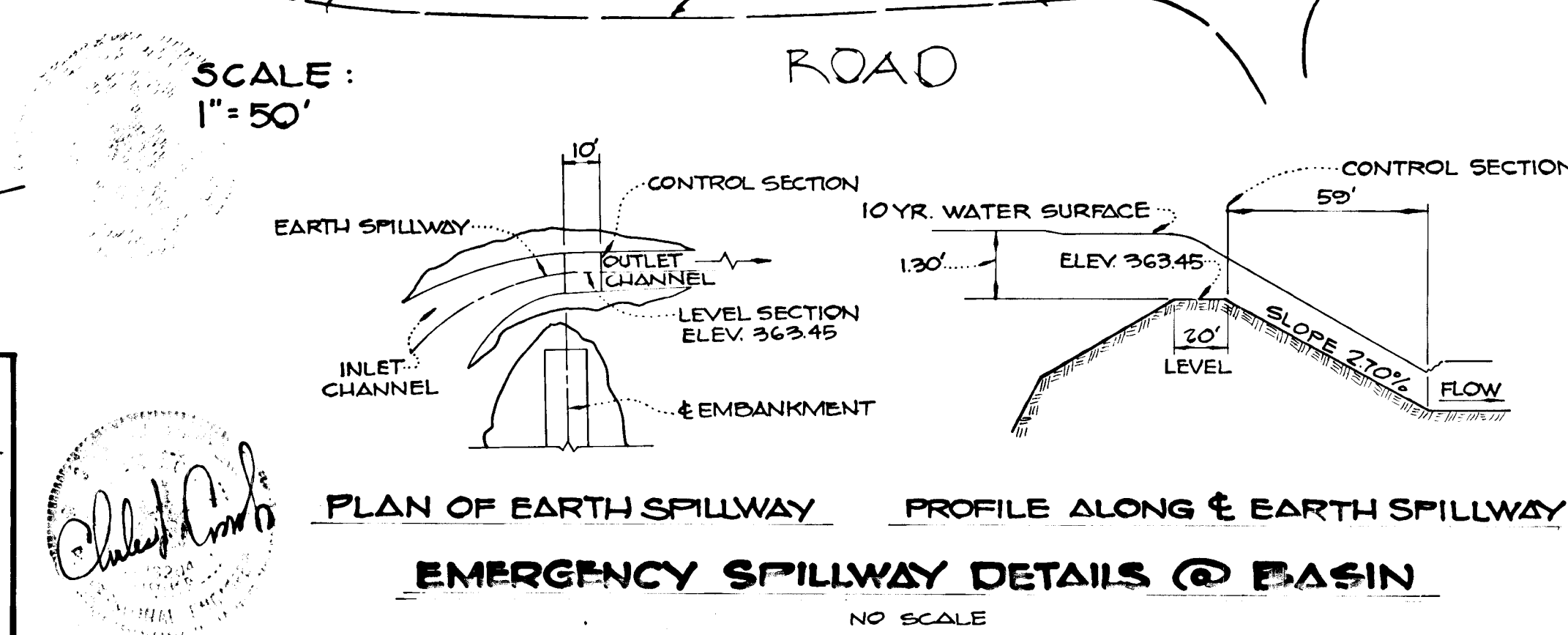
APPROVED: OFFICE OF PLANNING AND ZONING

... 2/2/88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

... 6/21/88
DISTRICT ENGINEER DATE

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



1323

- SEEDING CONTROL NOTES**
- 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. (892-2437)
 - 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.
 - Following initial soil disturbance or redistribution, 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.
 - All sediment traps/basins 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.
 - All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND 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.
 - 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.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, IF NOT PREVIOUSLY LOOSENEED.

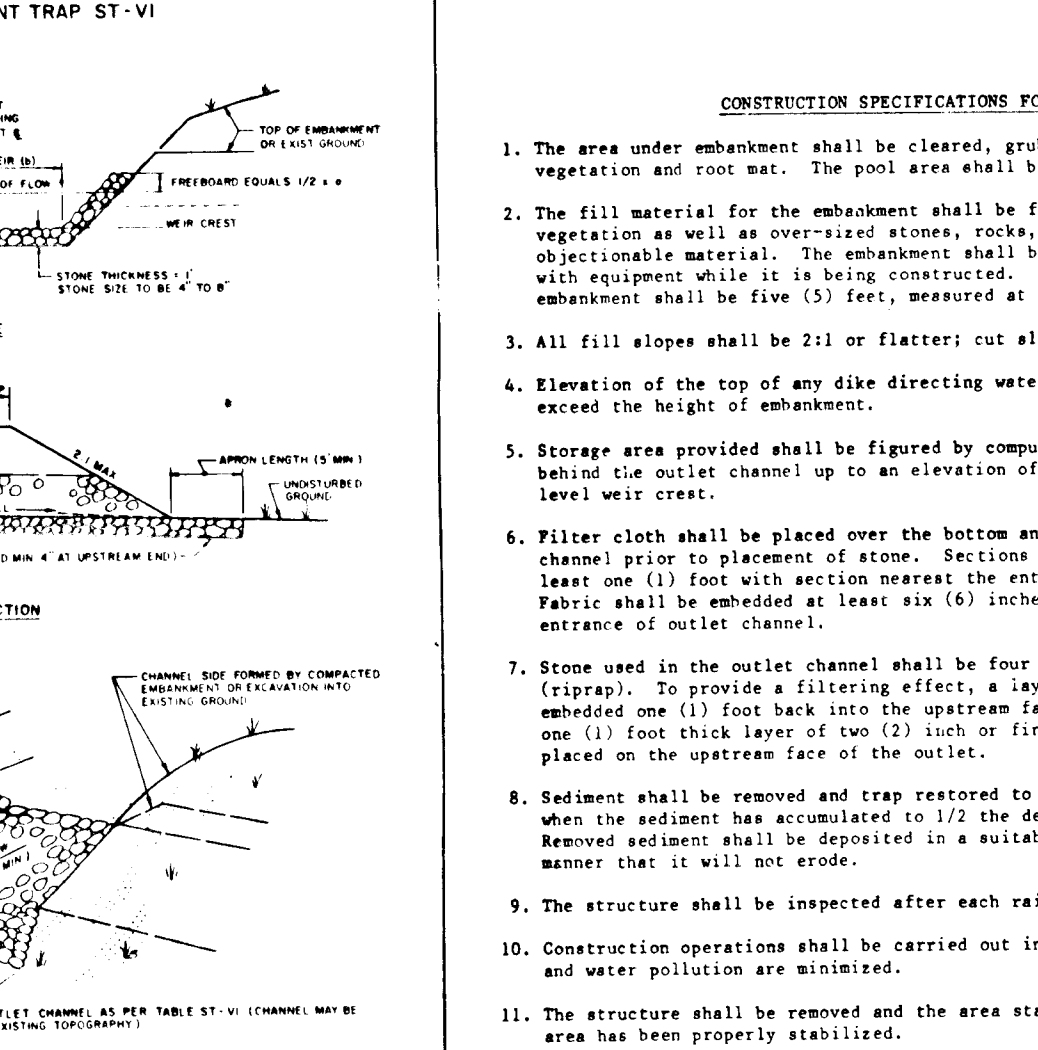
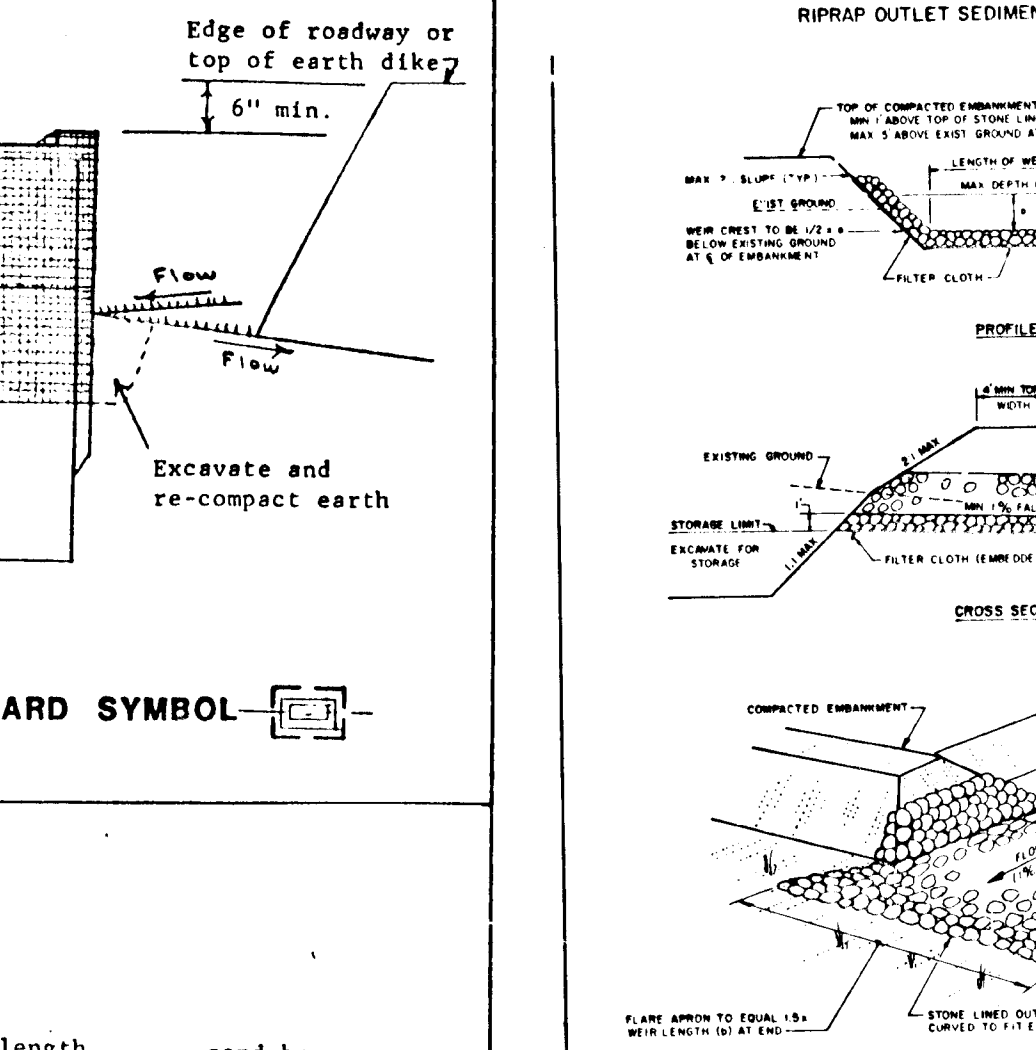
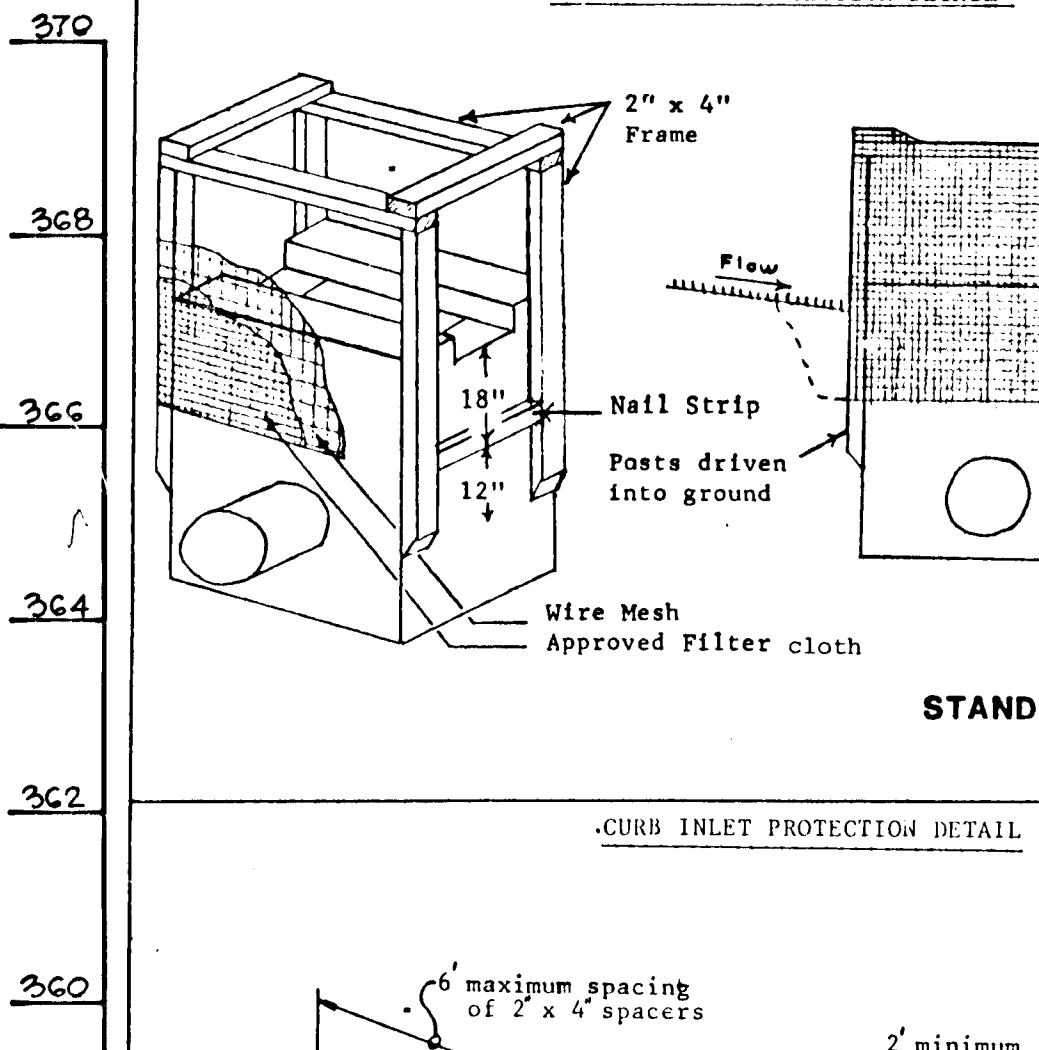
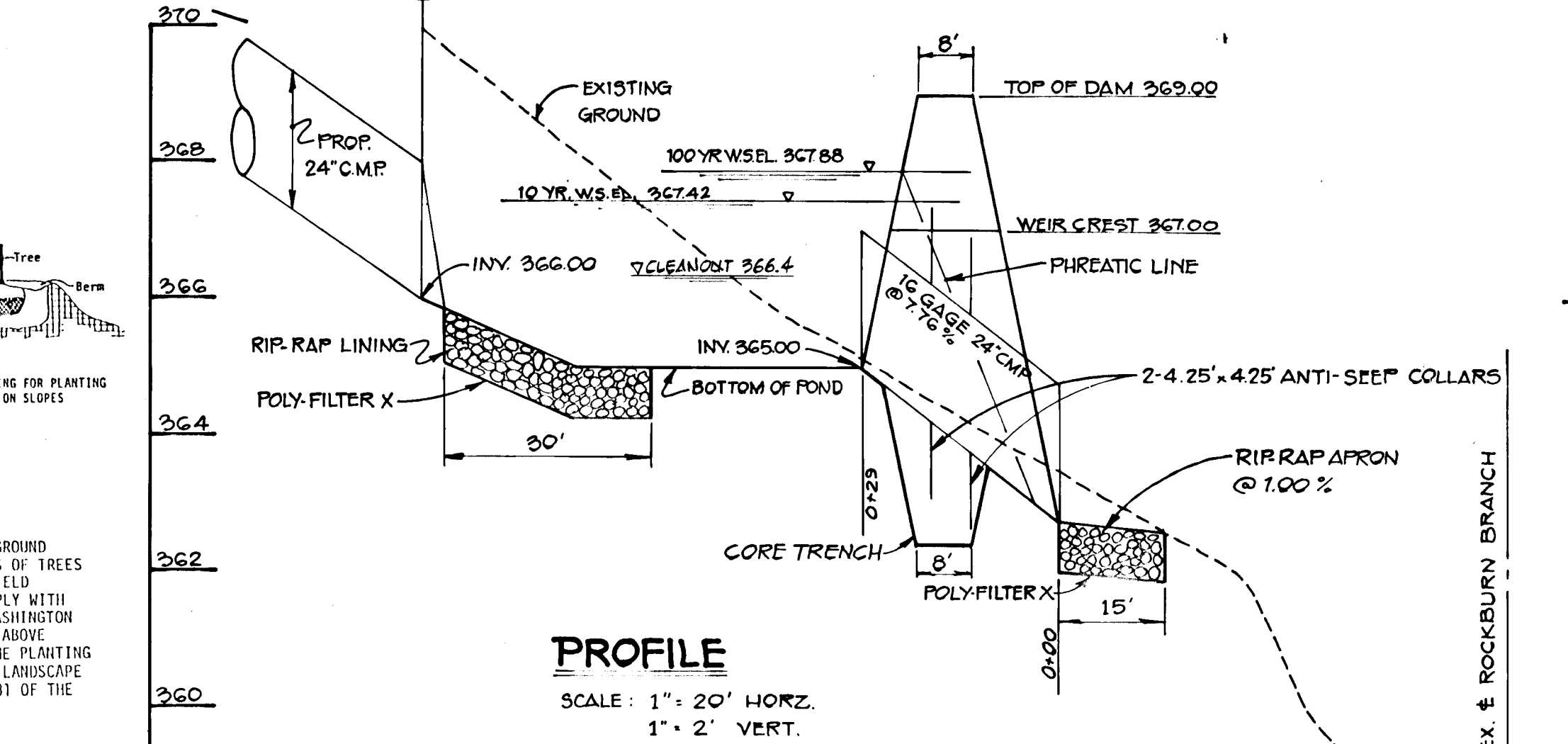
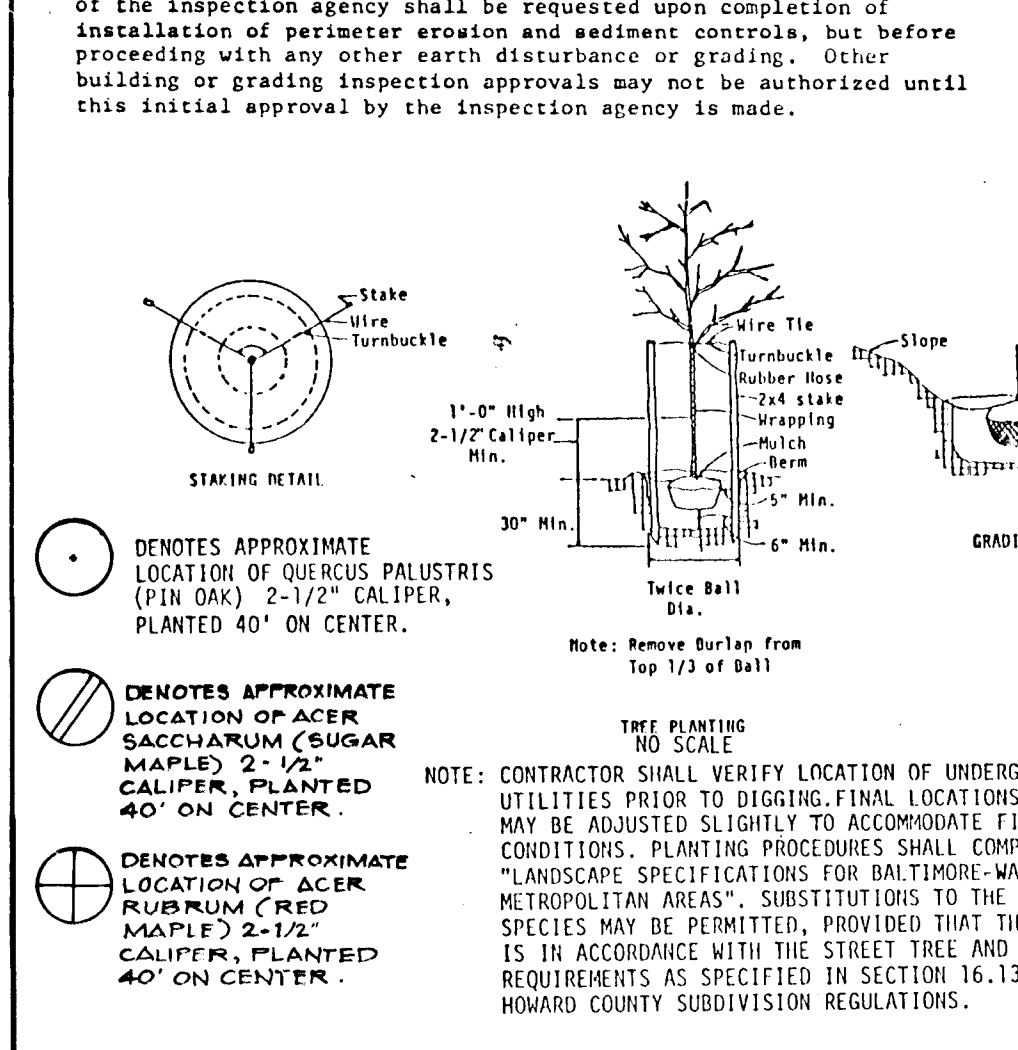
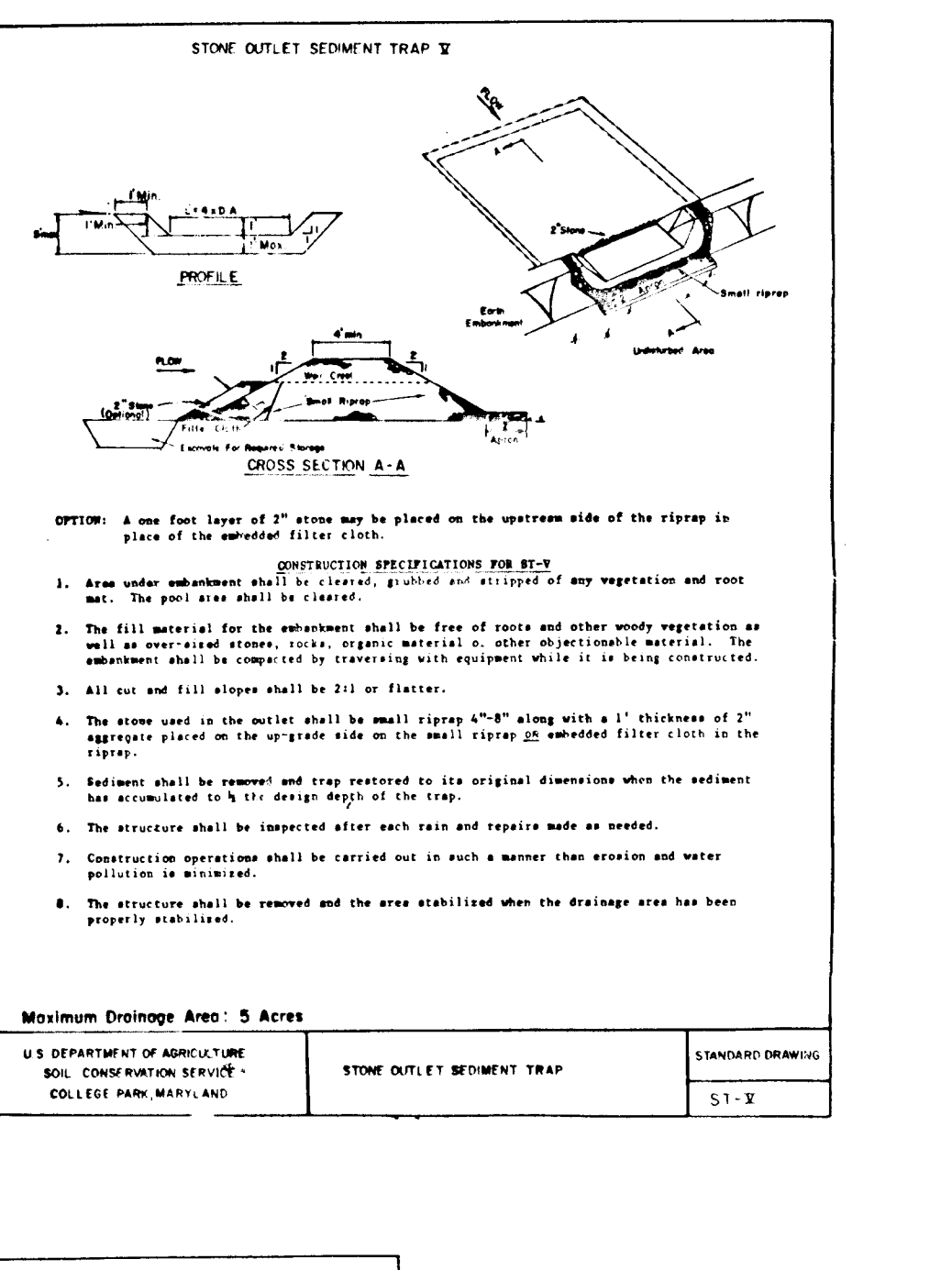
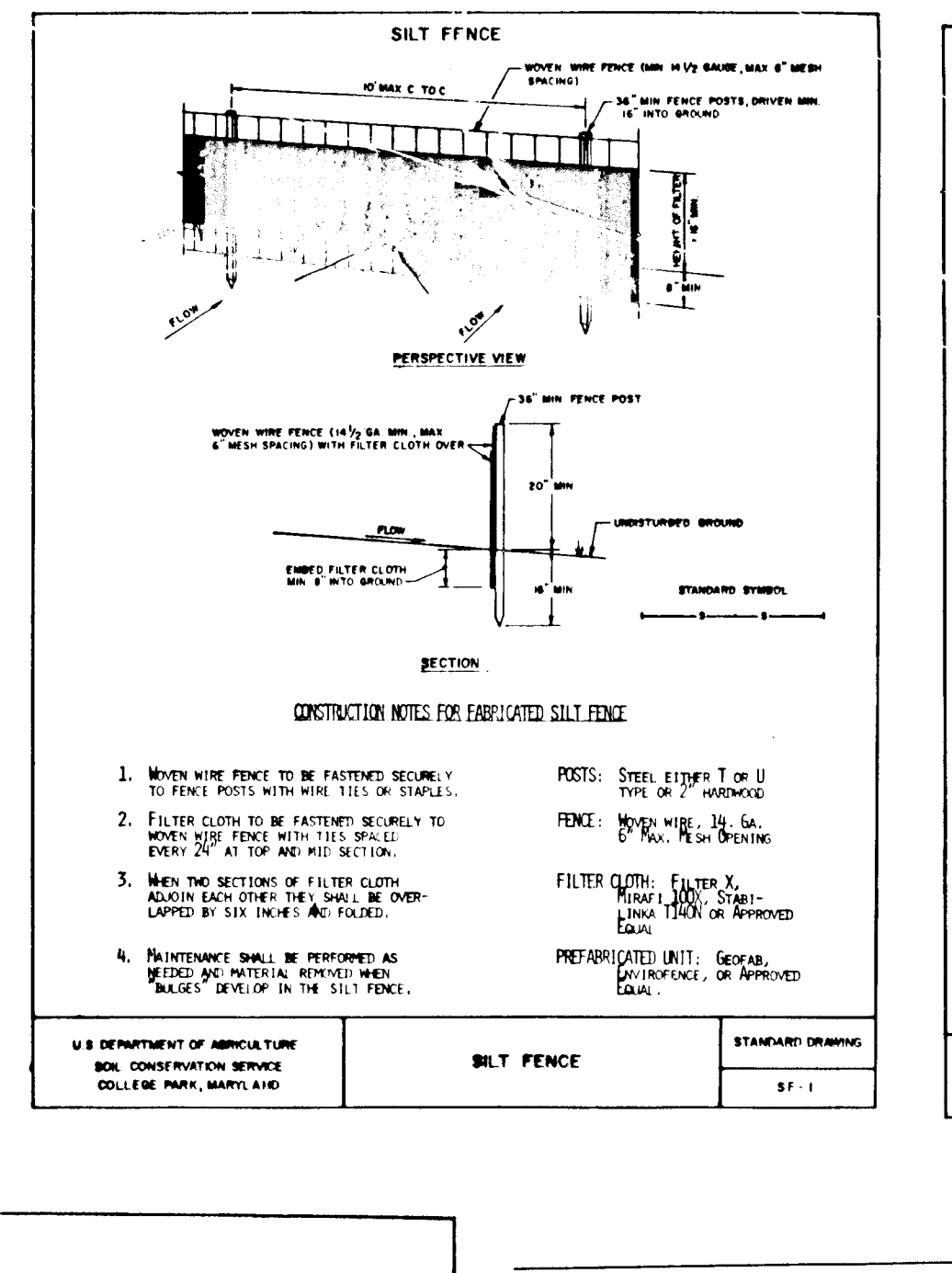
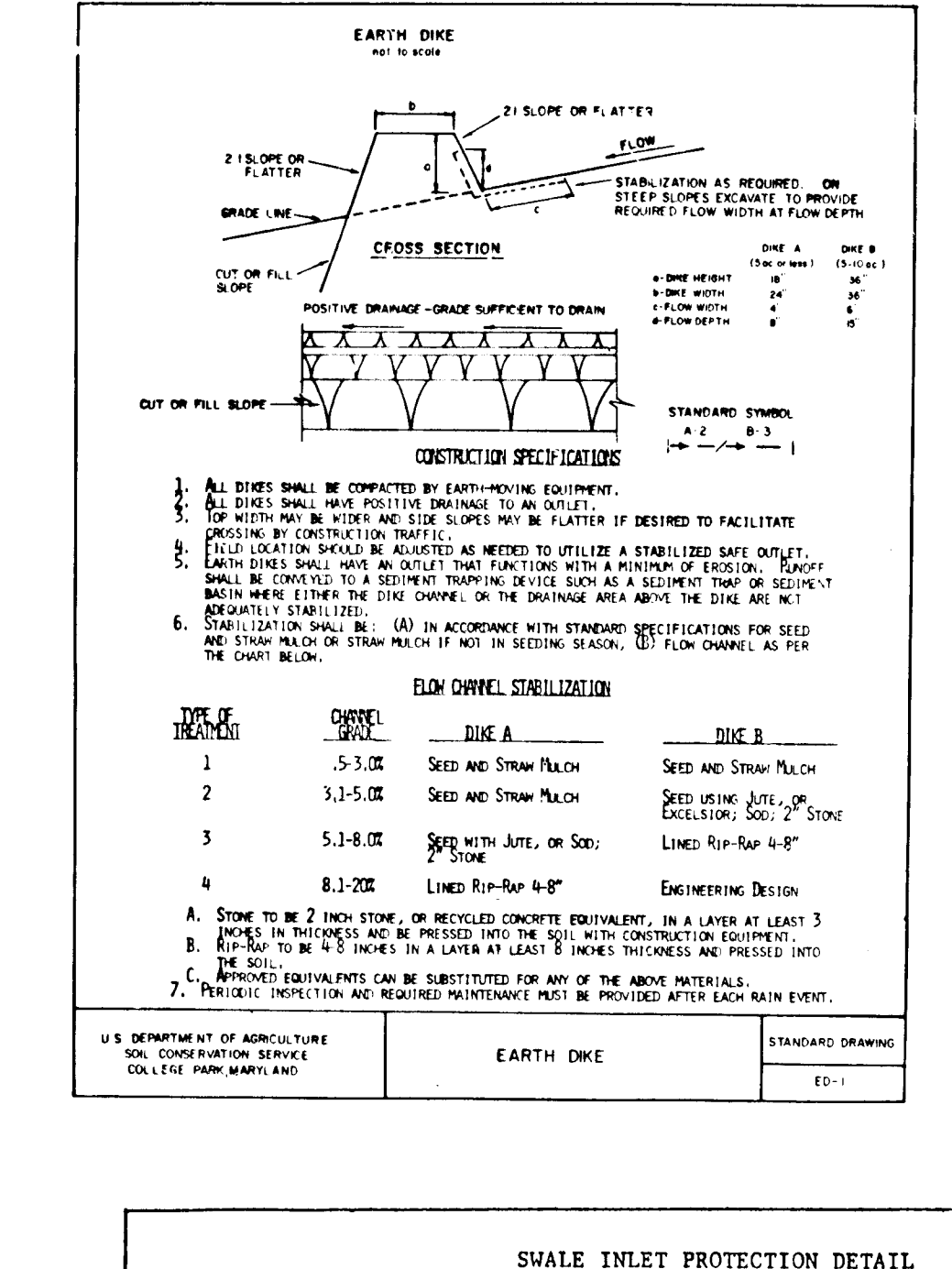
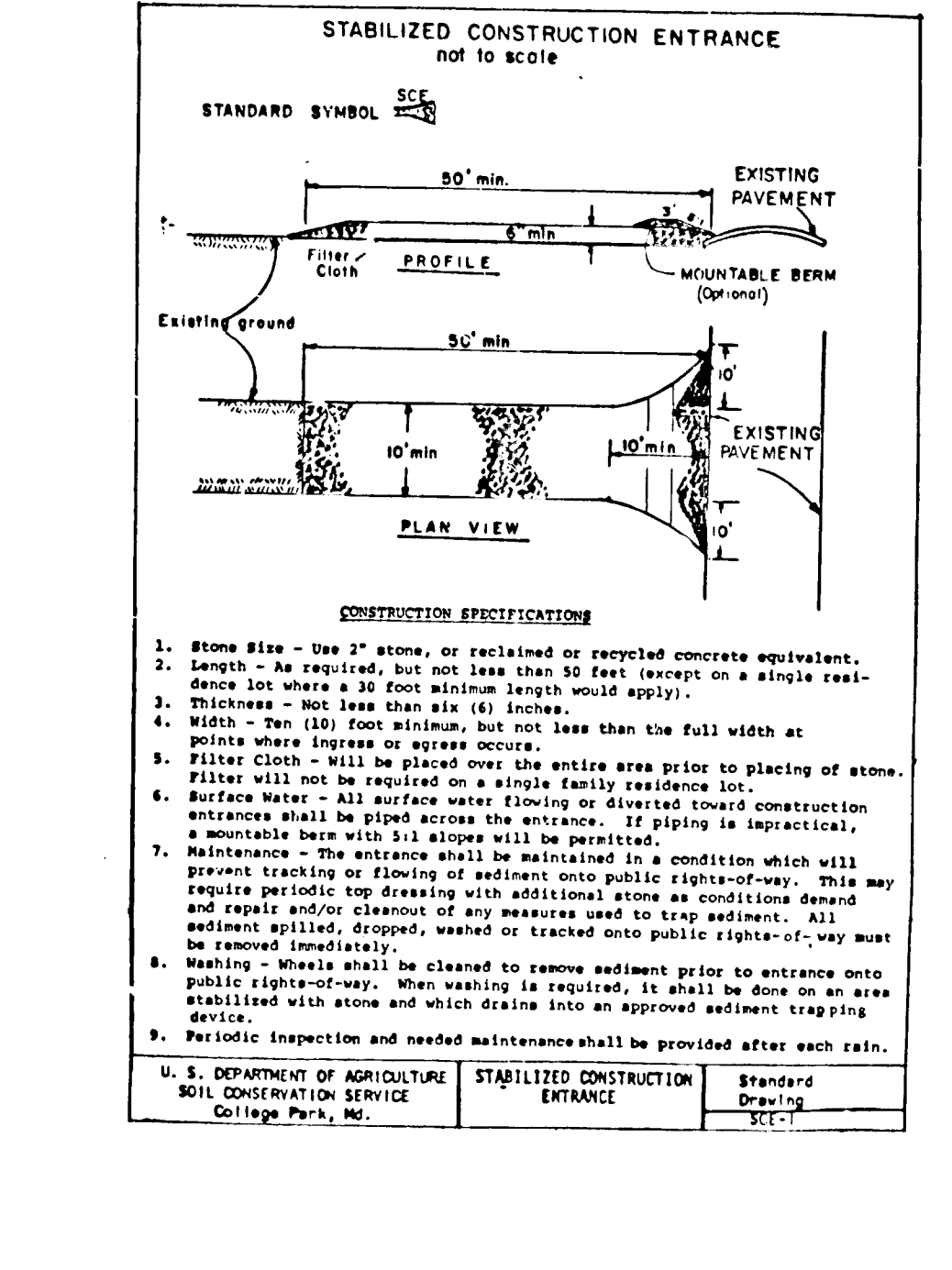
Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 800 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 ureaform 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 (22 lbs/1000 sq ft) as 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.

Mulching - Apply 1/4 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 28 gal per acre (5 gal/1000 sq ft) of unmodified asphalt on flat areas. On slopes 8 feet or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring straw.

Maintenance - Inspect all seeded areas and make needed repairs, replacements and rereidings.



ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND REASONABLE 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 A. ...
2/24/88

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 SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

David R. ...
2/24/88

APPROVED BY HOWARD COUNTY DEPT. OF PUBLIC WORKS

...
6/28/88

APPROVED BY CHIEF, BUREAU OF HIGHWAYS

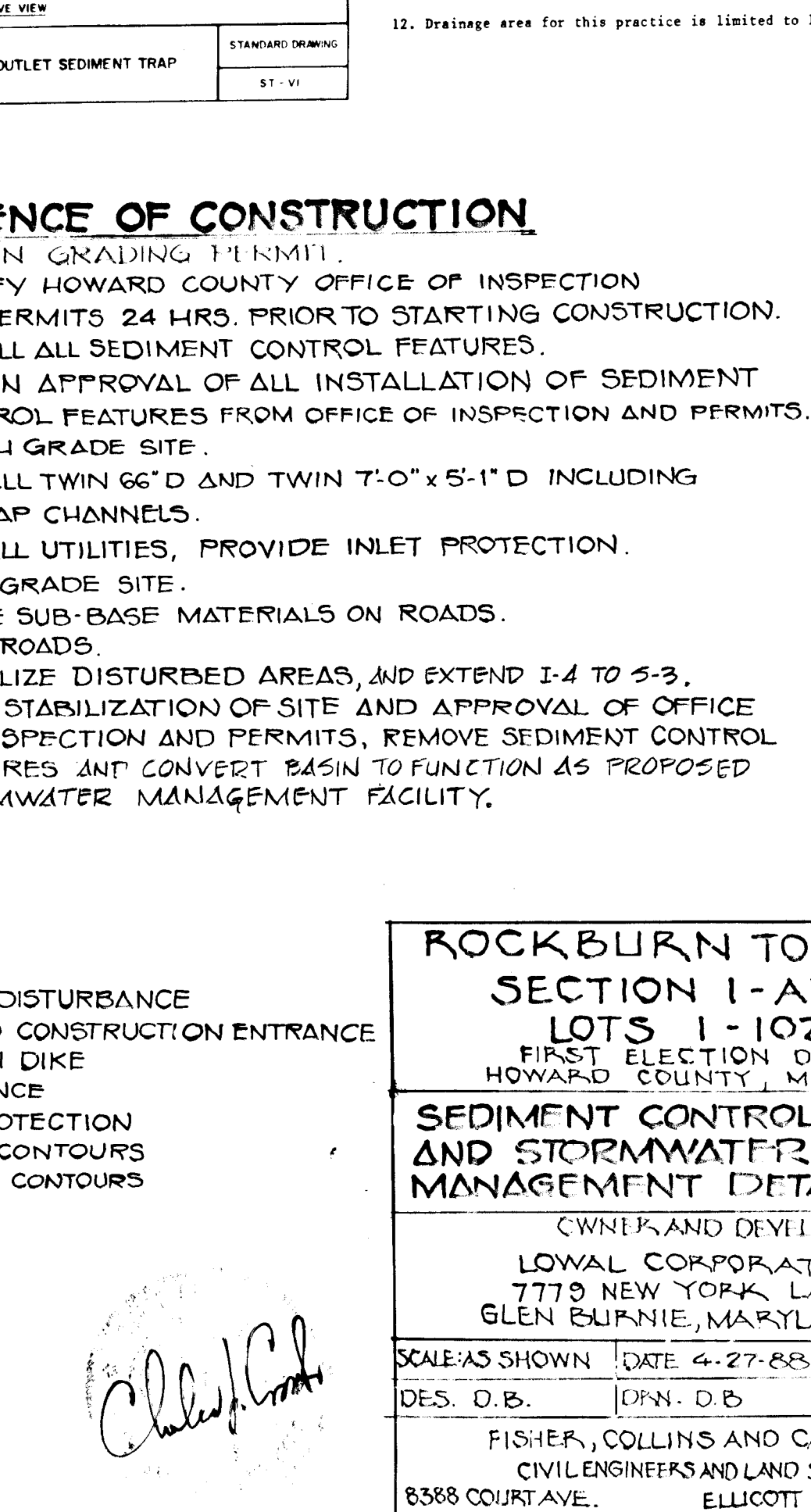
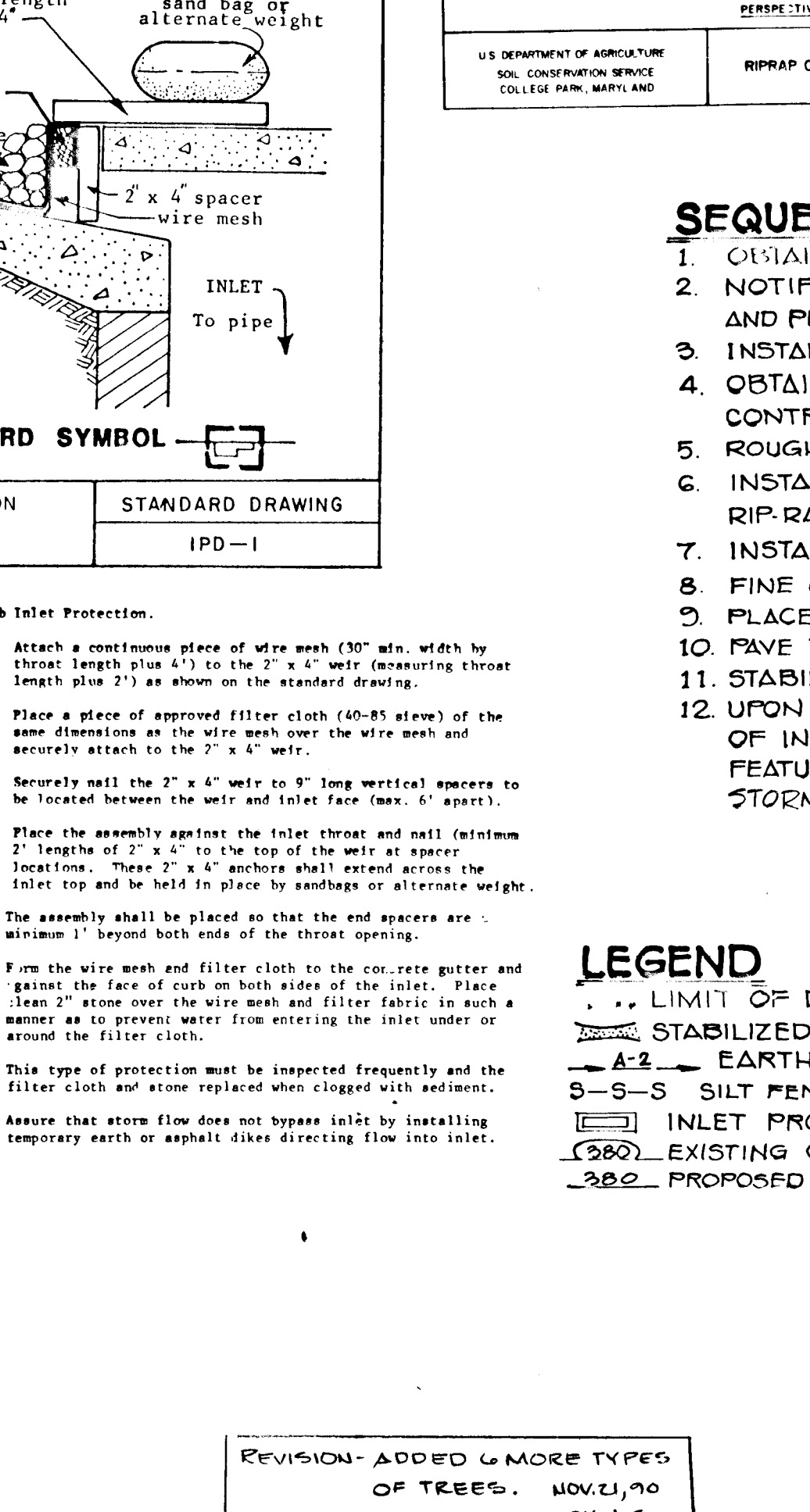
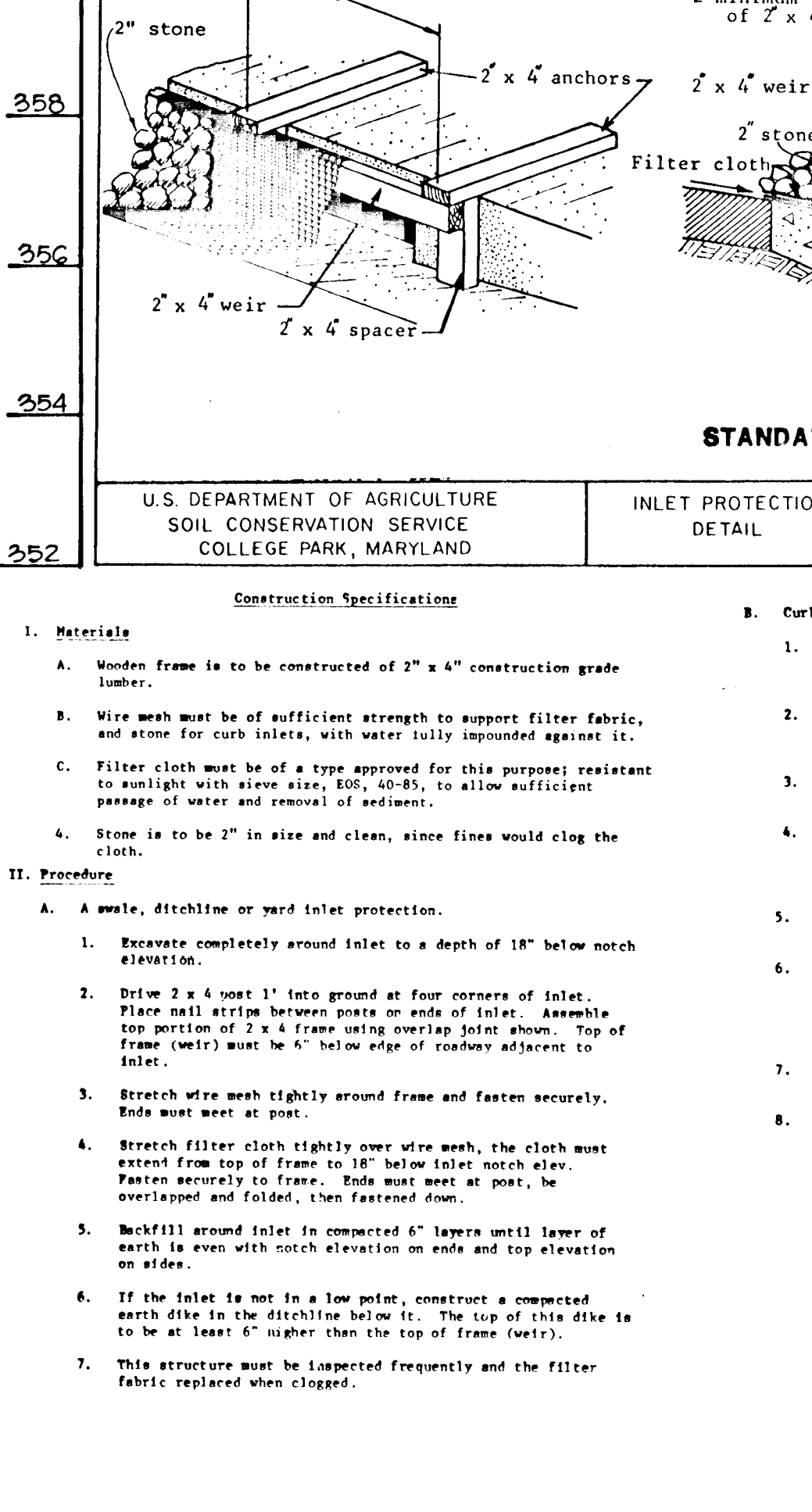
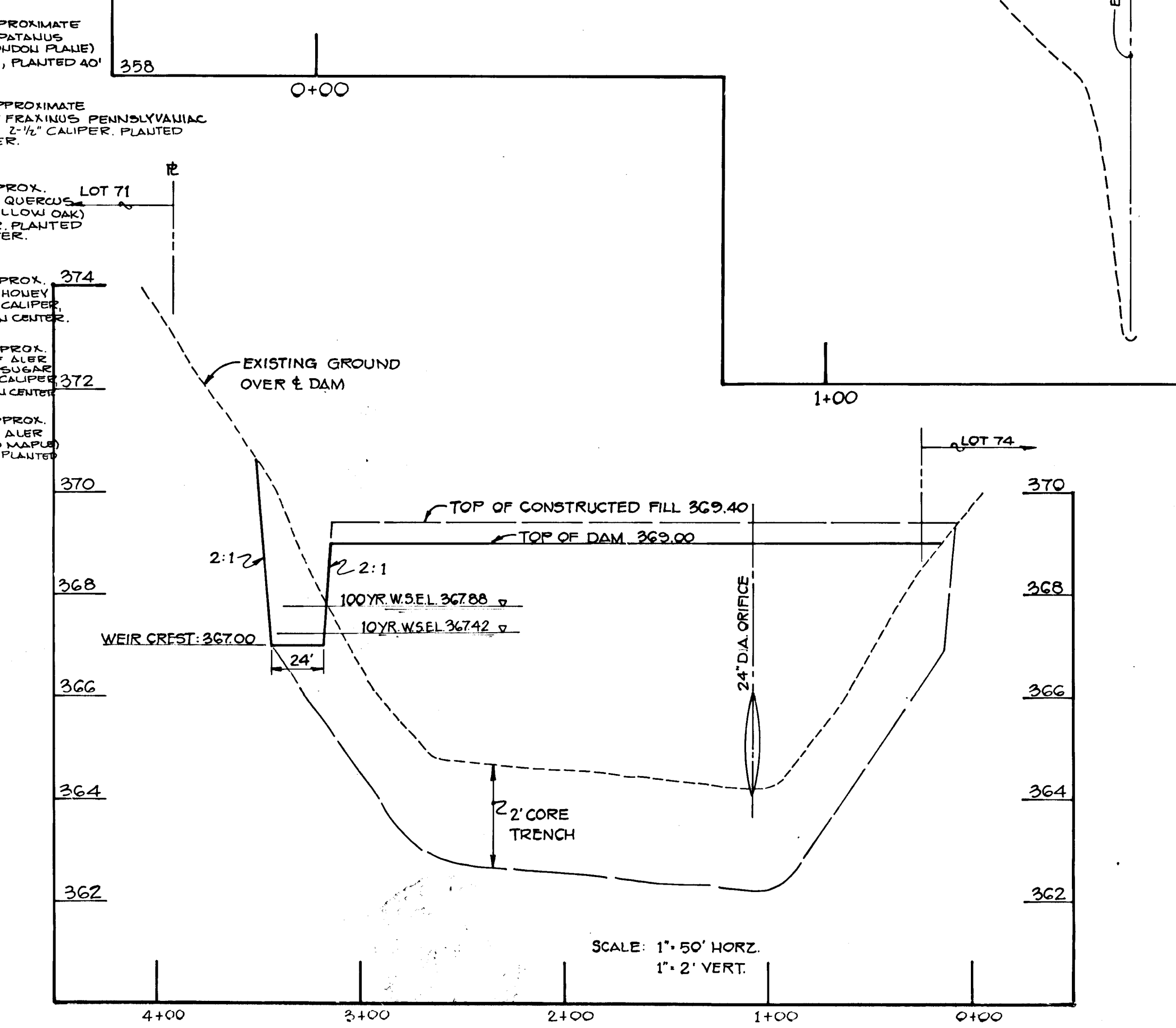
...
7-9-88

APPROVED BY CHIEF, BUREAU OF ENGINEERING

...
7-9-88

APPROVED BY OFFICE OF PLANNING AND ZONING

...
7/10/88



REVISION - ADDED 6 MORE TYPES OF TREES
NOV. 90
BY: S.

LEGEND

- - - LIMIT OF DISTURBANCE
- STABILIZED CONSTRUCTION ENTRANCE
- A-2 - EARTH DIKE
- S-S - SILT FENCE
- INLET PROTECTION
- EXISTING CONTOURS
- PROPOSED CONTOURS

ROCKBURN TOWNSHIP
SECTION 1-AREA 1
LOTS 1-102
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SEDIMENT CONTROL AND STORMWATER MANAGEMENT DETAILS

CIVIL AND DEVELOPER
LOWAL CORPORATION
7775 NEW YORK LANE
GLEN ELLIPINE, MARYLAND 21061

SCALE AS SHOWN DATE 4-27-88 DWG. NO. 17 OF 17
DES. O.B. CHK. C.C.

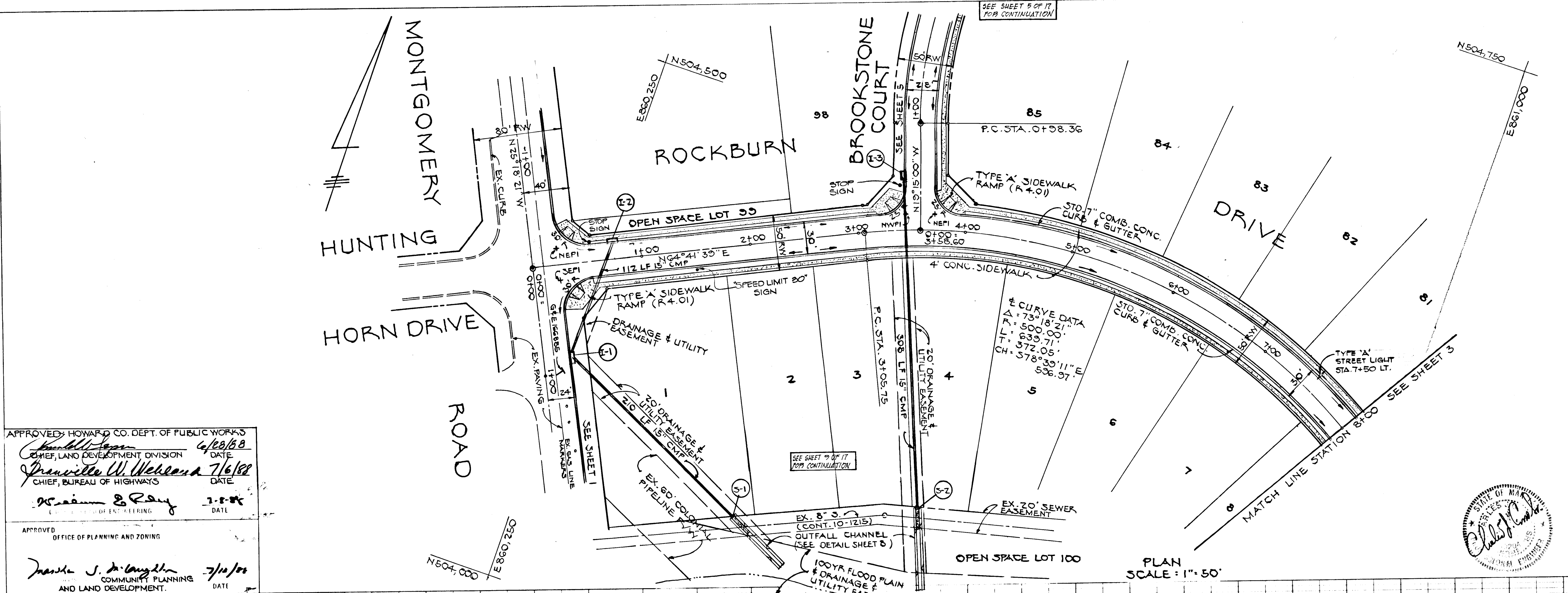
FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

F-88-186

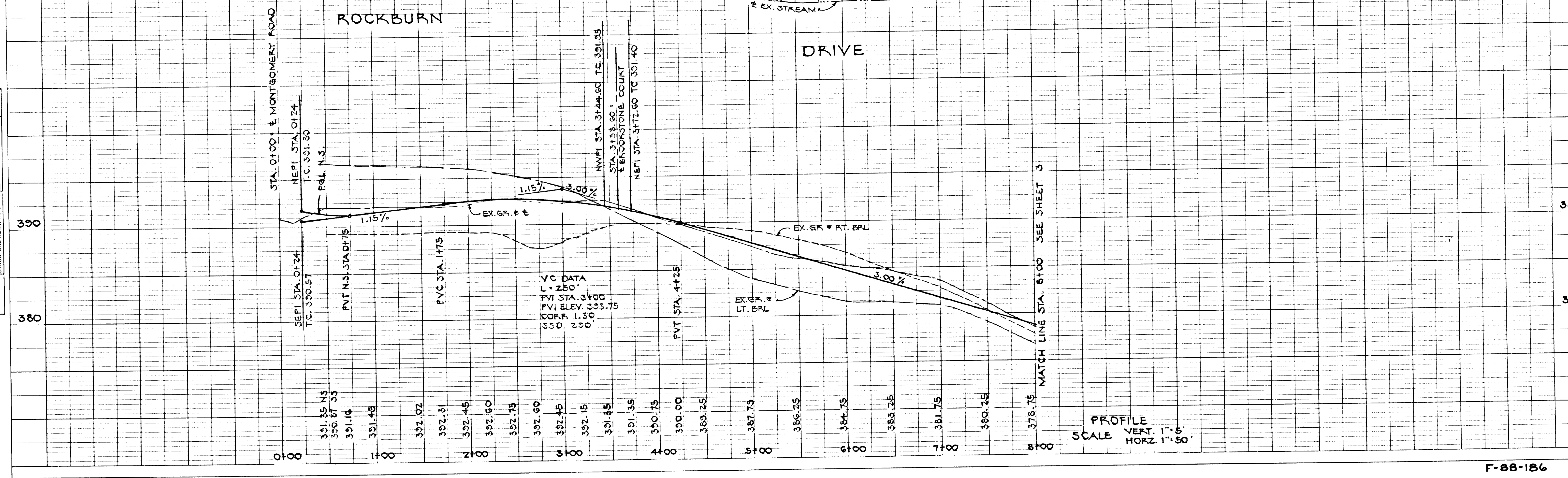
DATE	
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APPROVED: HOWARD CO. DEPT. OF PUBLIC WORKS
Franklin J. ... 6/23/88
 CHIEF, LAND DEVELOPMENT DIVISION
Shawville W. ... 7/6/88
 CHIEF, BUREAU OF HIGHWAYS
Mc ... 1-8-88
 DATE
 APPROVED: OFFICE OF PLANNING AND ZONING
Janice S. ... 7/12/88
 COMMUNITY PLANNING AND LAND DEVELOPMENT. DATE



ROCKBURN TOWNSHIP
 SECTION 1-AREA 1
 LOTS 1-102
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 ROCKBURN DRIVE
 PLAN AND PROFILE
 OWNER AND DEVELOPER:
 LOWAL CORPORATION
 7775 NEW YORK LANE
 GLEN BURNIE, MARYLAND 21061
 SEALES SHOWN DATE 4-27-88 DWG. NO. 2 OF 17
 DES. D.B. DRN. O.B. CHK. C.C.
 FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8328 COURT AVE. ELLICOTT CITY, MARYLAND 21043



1321