

ENGINEER'S CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Tedell A. Fisher 12/11/79
 DATE

DEVELOPER'S CERTIFICATE
 I CERTIFY THAT ALL DEVELOPMENT AND OR CONSTRUCTION WILL BE DONE 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.
John Mikolajewski 12-6-78
 DATE

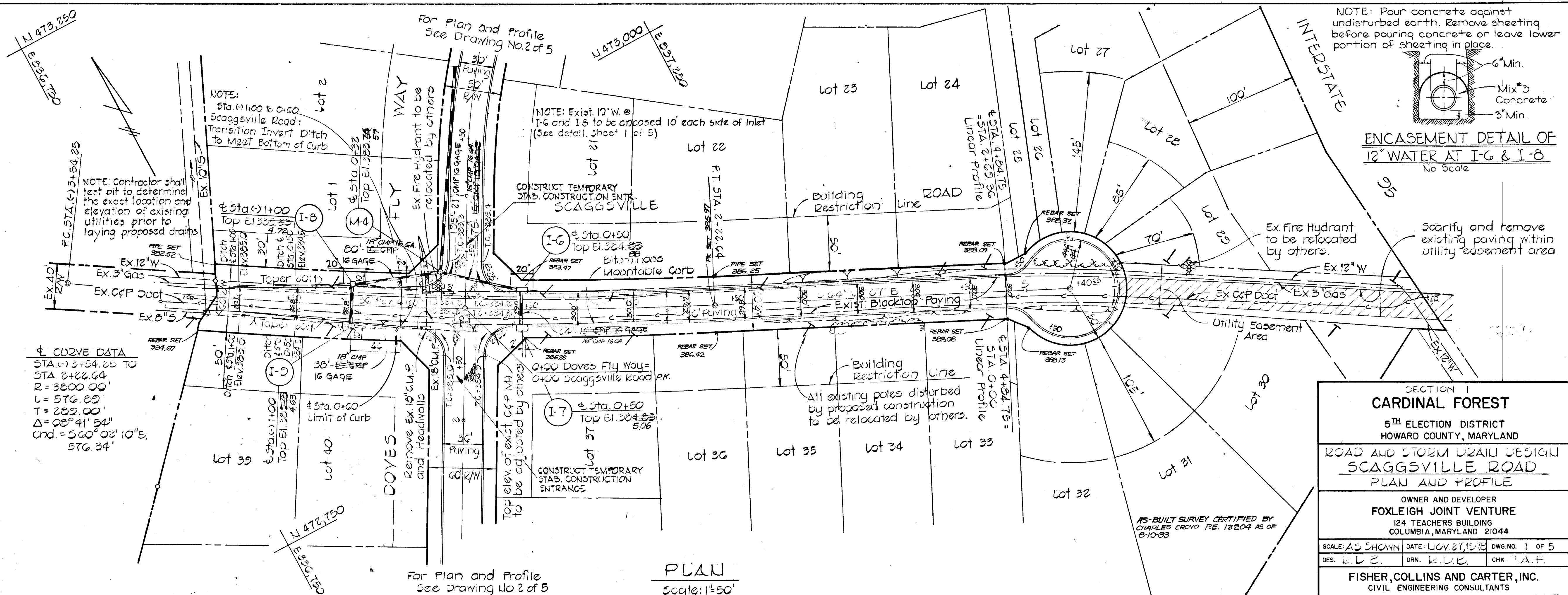
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Wendell Bennett 7-11-79
 U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Robert W. Ziem 7/11/79
 DISTRICT COORDINATOR DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS
W.O. Lubat 7-25-79
 CHIEF, BUREAU OF ENGINEERING DATE

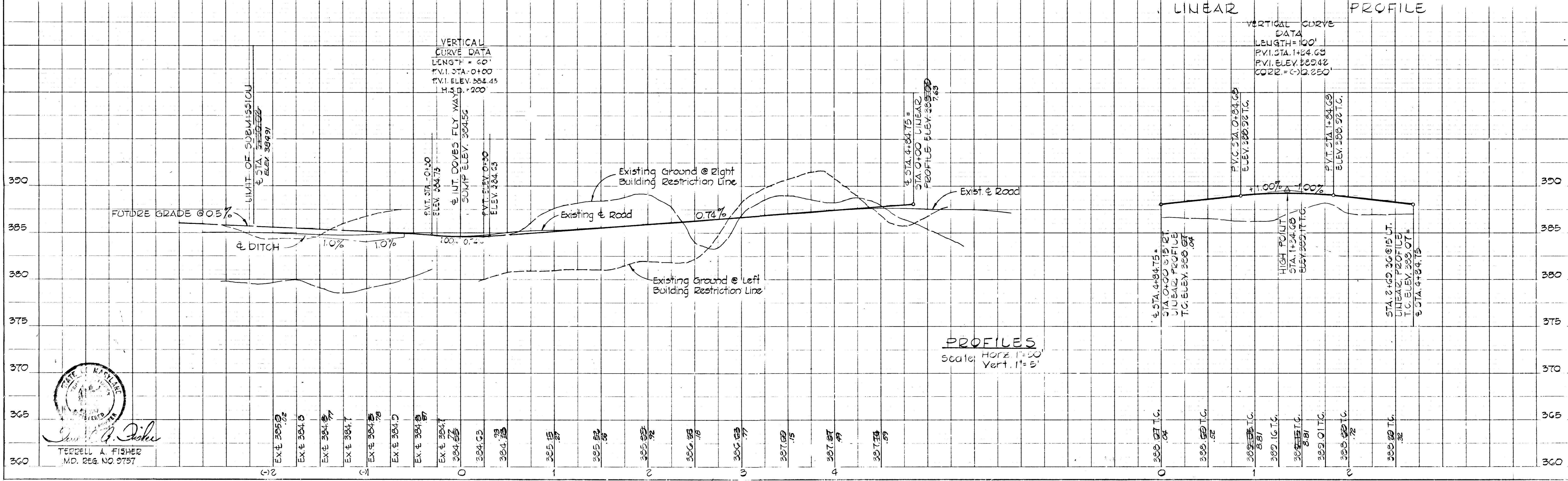
APPROVED: OFFICE OF PLANNING AND ZONING
John W. Anderson 7-12-79
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

DATE: _____
 BY: _____
 SURVEYED: _____
 PLOTTED: _____
 CHECKED: _____
 BY: _____
 NOTE BOOK: _____
 No. _____



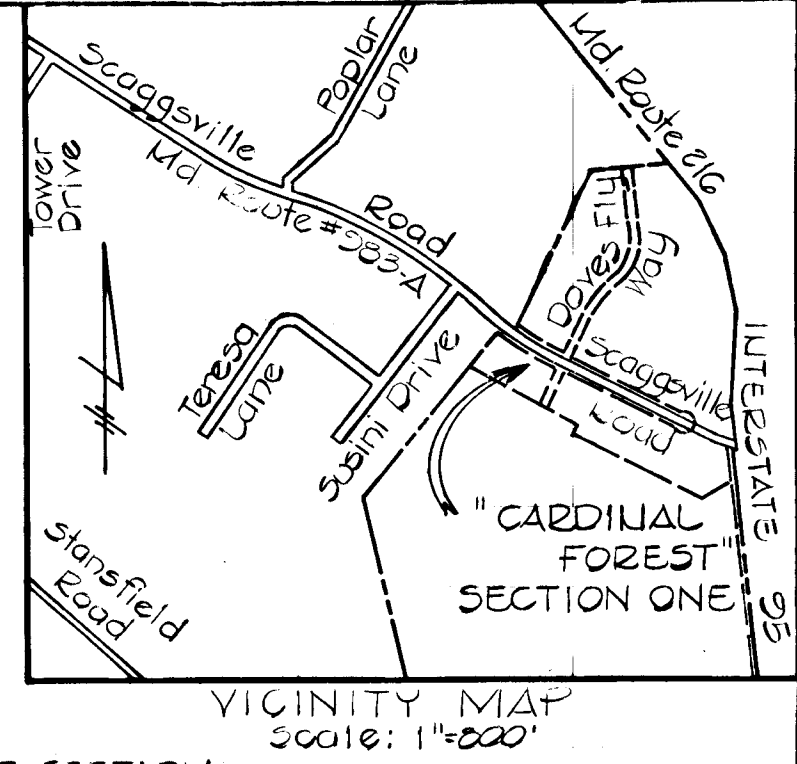
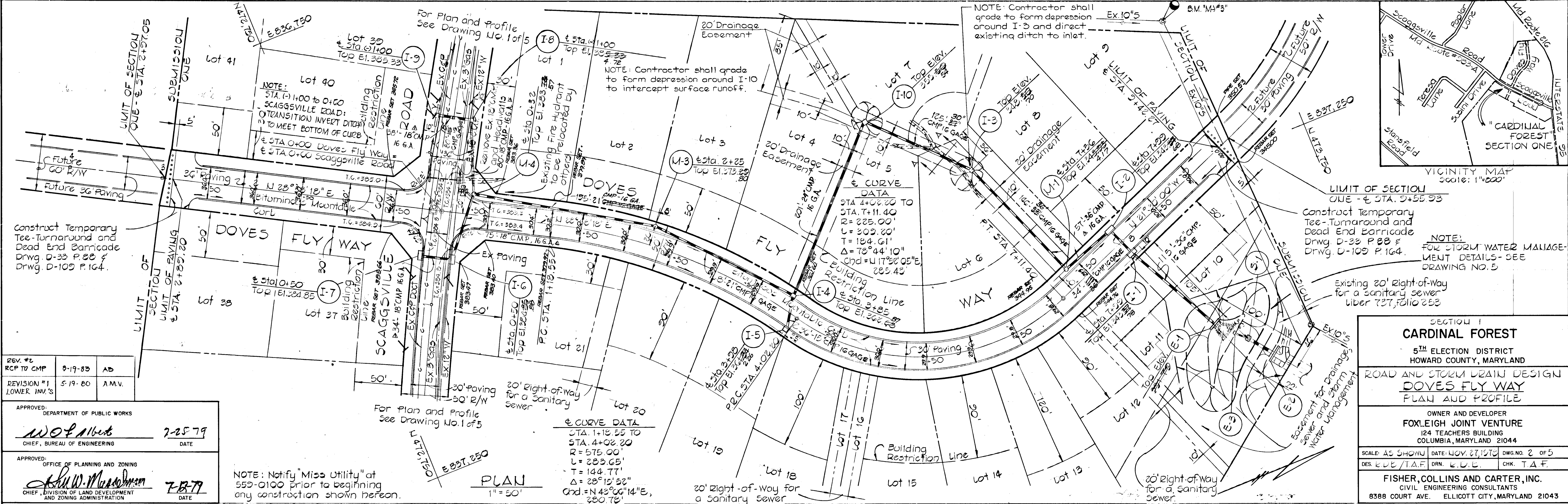
BENCH MARKS
 B.M. *G Elev. 365.57
 2" Spike in Gate #261003 Southside of Scaggsville Road in vicinity of Suelmi Drive.
 B.M. *M3 Elev. 361.32
 Top of Sanitary Manhole Cover @ Northwest Corner of Lot 9, Doves Fly Way.

PLAN
 Scale: 1"=50'



W.O. # 305

DATE	
BY	
NO.	
REVISION	
NOTE BOOK	
ALIGNMENT CHECKED	
BY	
DATE	
NO.	



REV. #2 RCP TO CMP 8-19-83 AD

REVISION #1 LOWER INV.'S 5-19-80 A.M.V.

APPROVED: DEPARTMENT OF PUBLIC WORKS
W.O. #305 7-25-79
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: OFFICE OF PLANNING AND ZONING
F.B. 79
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

SECTION 1
CARDINAL FOREST
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

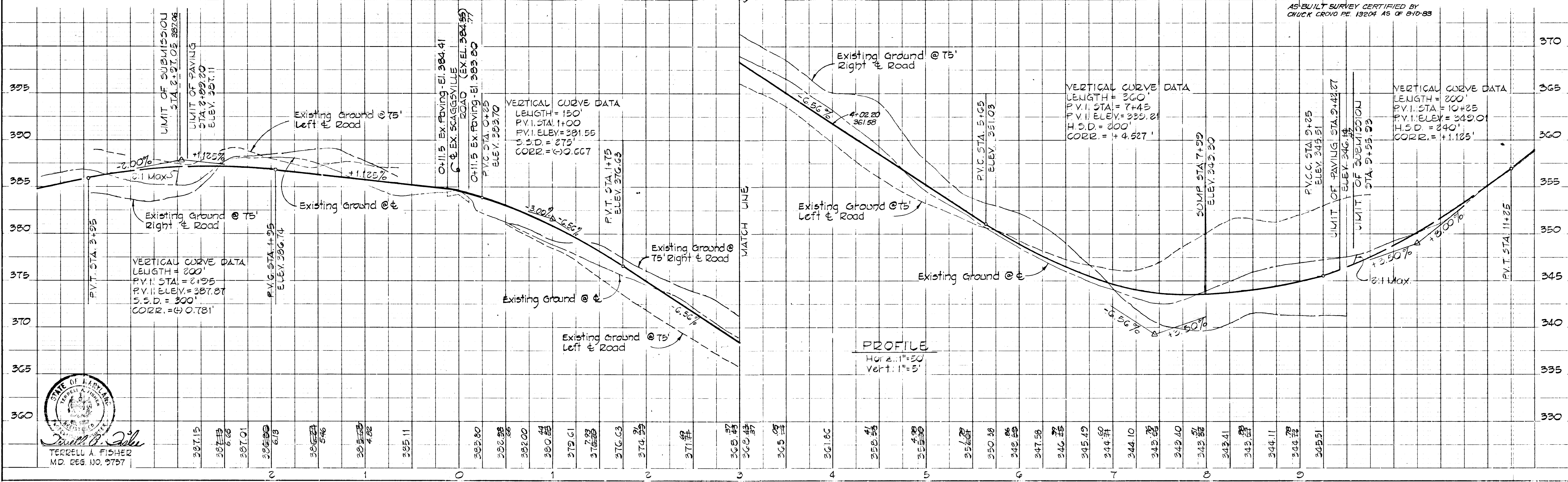
ROAD AND STORM DRAIN DESIGN
DOVES FLY WAY
PLAN AND PROFILE

OWNER AND DEVELOPER
FOXLEIGH JOINT VENTURE
124 TEACHERS BUILDING
COLUMBIA, MARYLAND 21044

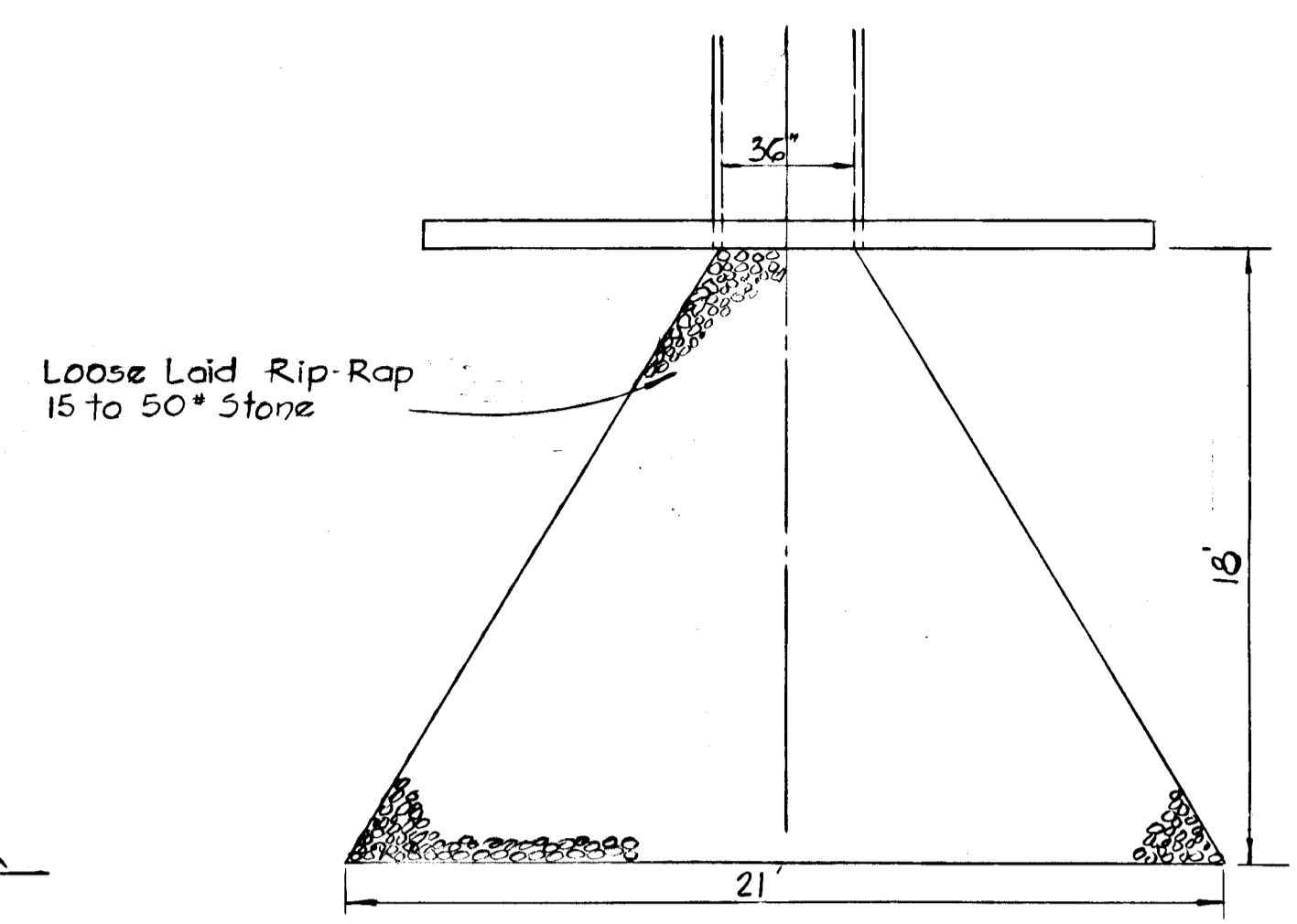
SCALE: AS SHOWN DATE: NOV. 27, 1979 DWG. NO. 2 OF 5
DES. R.C.E./T.A.F. DRN. E.L.C. CHK. T.A.F.

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERING CONSULTANTS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

DATE	
BY	
NO.	
REVISION	
NOTE BOOK	
GRADE CHECKED	
BY	
DATE	
NO.	



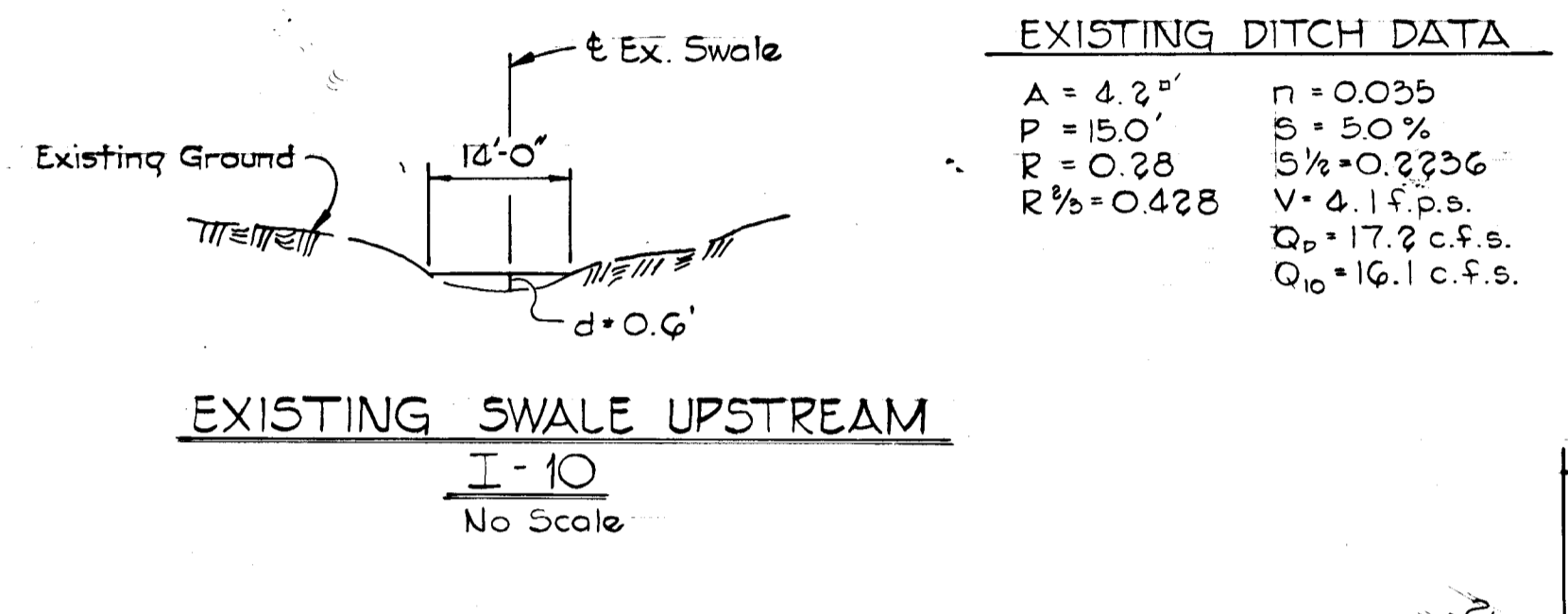
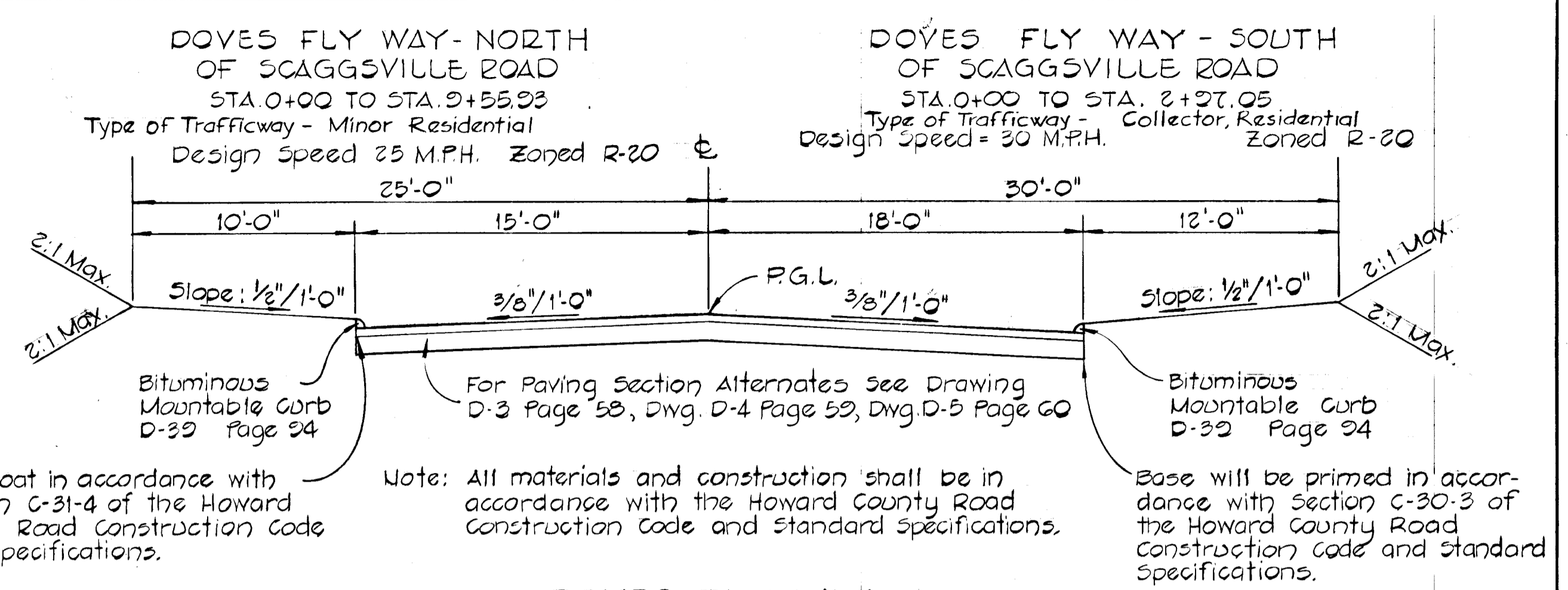
STRUCTURE SCHEDULE						
NO.	TYPE	INV. IN	INV. OUT	TOP ELEV.	± LOG.	REMARKS
E-1	TYPE C BUIWALL	328.82	329.22	331.79	---	SEE PLAN PAGE 107
I-1	A-10	337.23	337.23	343.27	7+59	DRIVE 10-A PAGE 113-A
I-2	A-10	337.23	337.23	343.27	7+59	DRIVE 10-A PAGE 113-A
M-1	HO. CO. STD. MAUHOLE	338.57	338.57	343.27	7+36	DRIVE 10-A PAGE 113-A
I-3	S	343.53	343.53	349.57	---	DRIVE 10-A PAGE 113-A
I-10	C (2 SIDES) OPEN	352.09	352.09	355.58	---	DRIVE 10-A PAGE 113-A
I-4	A-10	357.23	357.23	363.27	3+85	DRIVE 10-A PAGE 113-A
M-3	HO. CO. STD. MAUHOLE	367.73	367.73	373.27	2+25	DRIVE 10-A PAGE 113-A
M-4	HO. CO. STD. MAUHOLE	373.27	373.27	383.27	0+32	DRIVE 10-A PAGE 113-A
I-6	A-10	381.04	381.04	384.58	0+50	DRIVE 10-A PAGE 113-A
I-7	DEFLECTORS	---	381.04	384.58	0+50	DRIVE 10-A PAGE 113-A
I-8	K	380.27	380.27	384.58	(-) 1+00	DRIVE 10-A PAGE 113-A
I-9	K	---	380.27	384.58	(-) 1+00	DRIVE 10-A PAGE 113-A
I-5	A-10	---	357.23	363.27	3+85	DRIVE 10-A PAGE 113-A



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

Approved: *Robert Z. Johnson* 7/11/79
Howard S.C.D.

Reviewed for: *Howard S.C.D.*
and meets Technical Requirements
Signature: *[Signature]* Date: 7/11/79
U.S. Soil Conservation Service



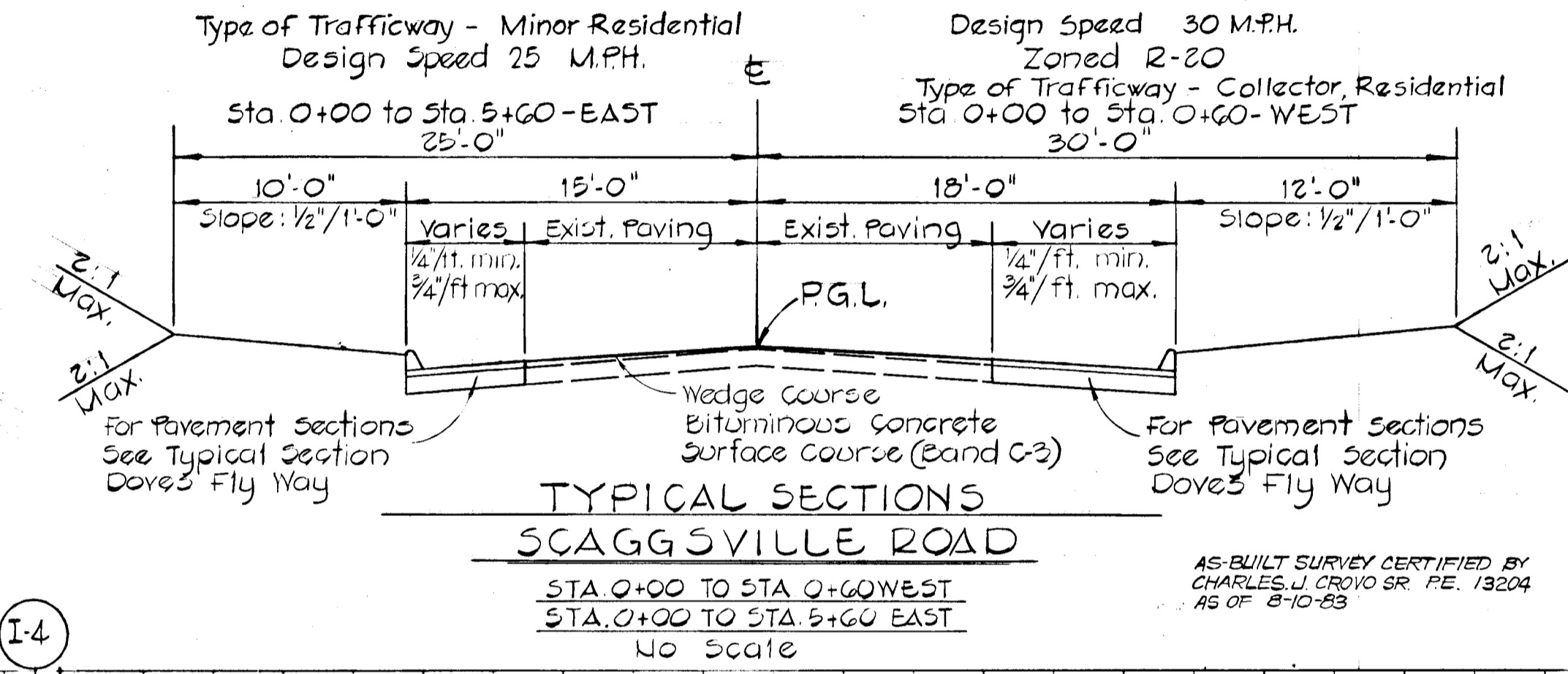
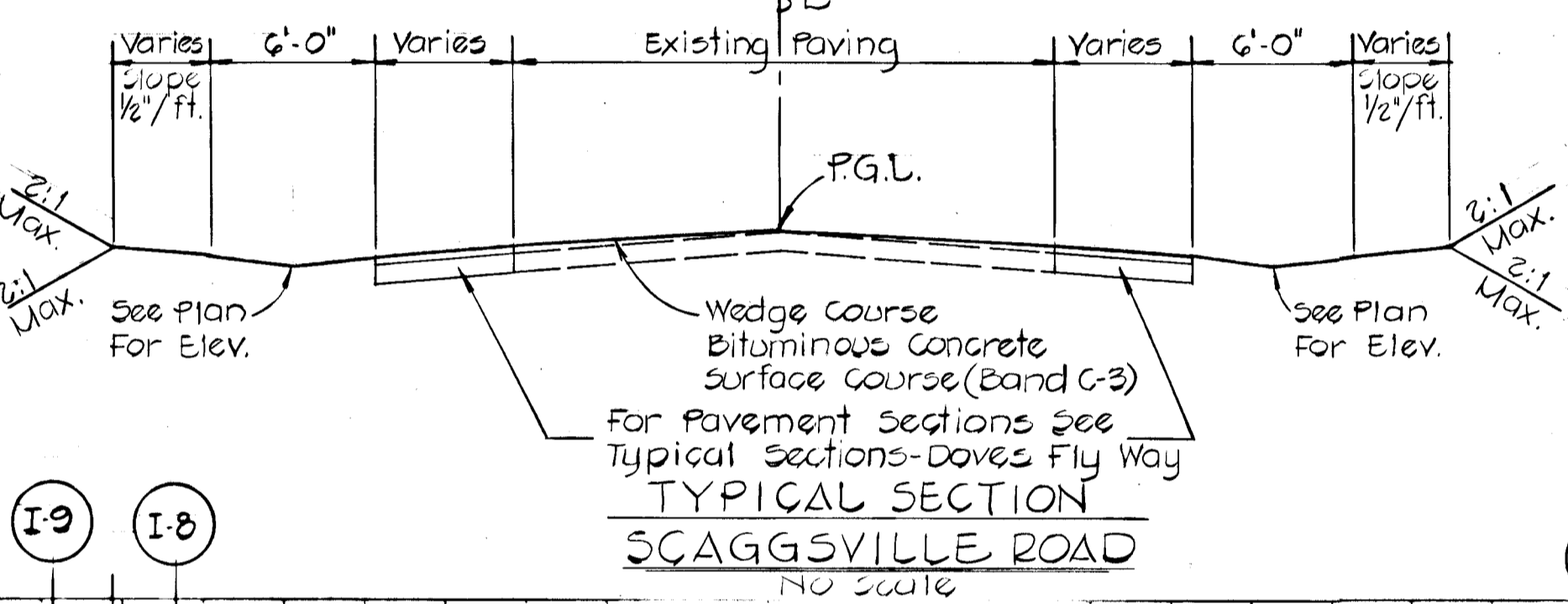
EXISTING DITCH DATA

A = 4.2'	n = 0.035
P = 15.0'	S = 50%
R = 0.28	5% = 0.2236
R% = 0.428	V = 4.1 f.p.s.
	Q _p = 17.2 c.f.s.
	Q ₀ = 16.1 c.f.s.

RIP-RAP DETAIL @ E-1
No Scale
Sta. 0+60 to Sta. 2+12 West
Design Speed 30 M.P.H. Zoned R-20

APPROVED: DEPARTMENT OF PUBLIC WORKS
W. J. [Signature] 7-21-79
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: OFFICE OF PLANNING AND ZONING
John W. [Signature] 7-12-79
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE



REV. #	E.C.P. TO C.M.P.	DATE	BY
1	5-19-80	5-19-80	A.M.V.
2	8-19-83	8-19-83	A.B.

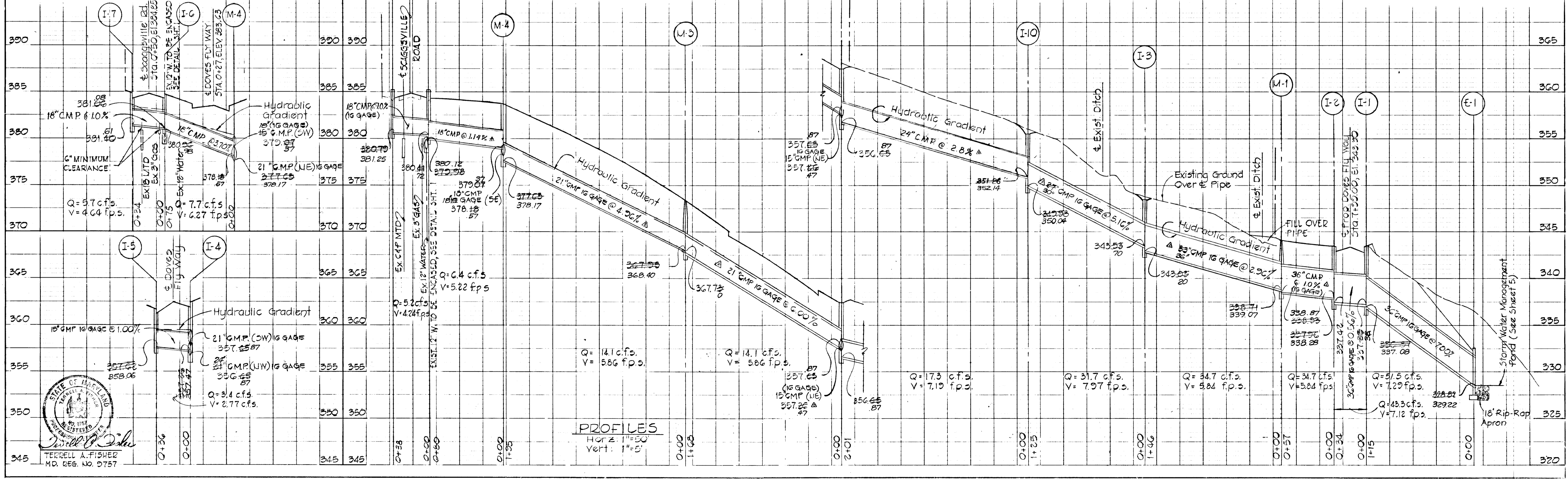
SECTION 1
CARDINAL FOREST
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

STORM DRAIN PROFILES AND CONSTRUCTION DETAILS
SCAGGSVILLE RD & DOVES FLY WAY

OWNER AND DEVELOPER
FOXLEIGH JOINT VENTURE
124 TEACHERS BUILDING
COLUMBIA, MARYLAND 21044

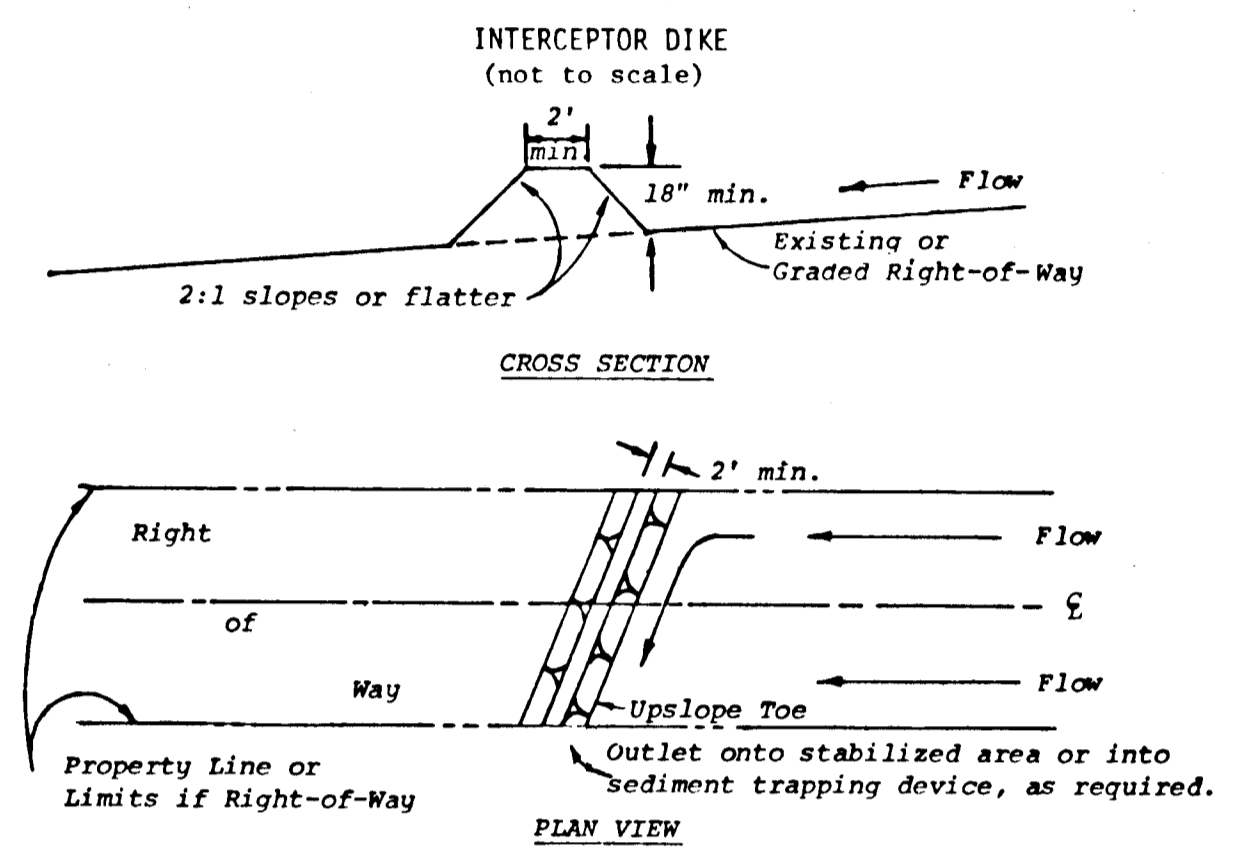
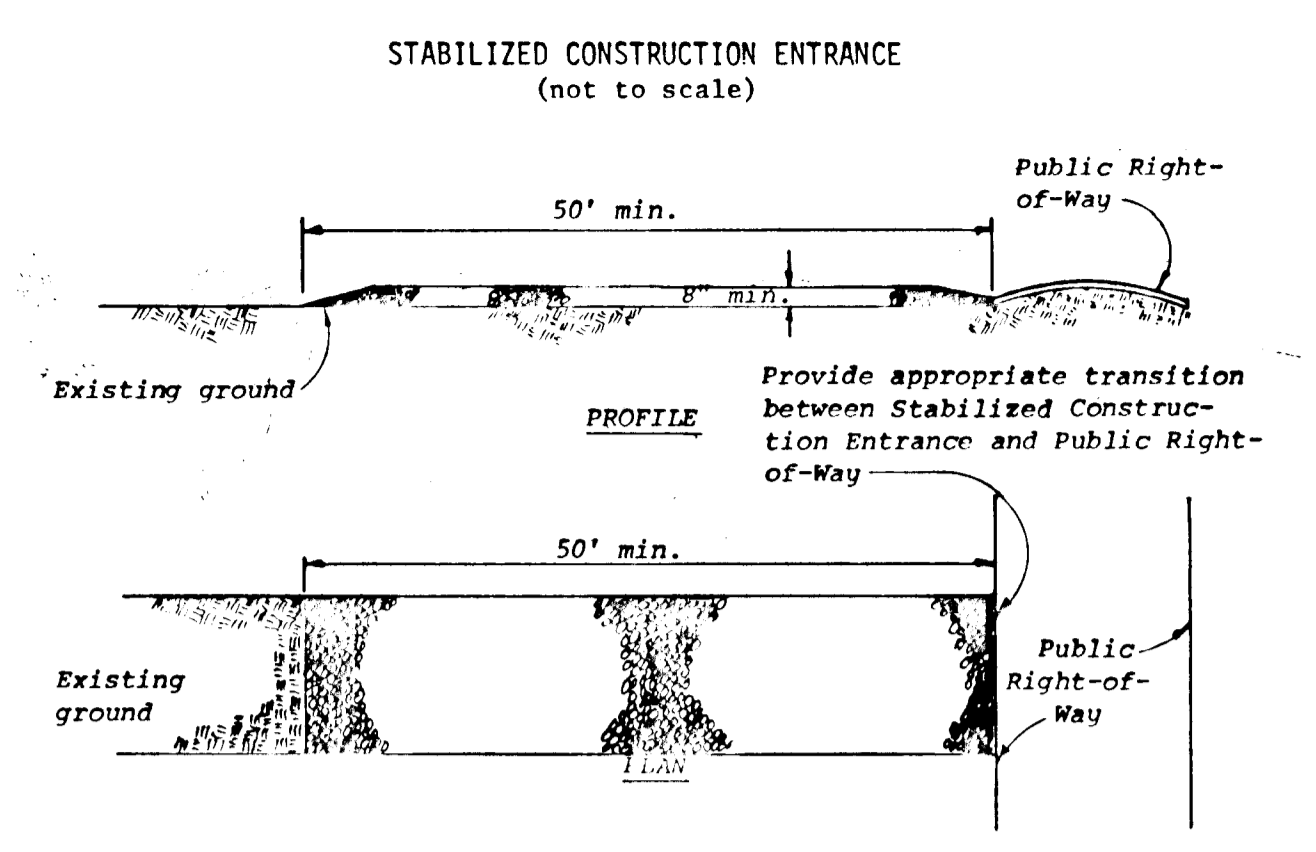
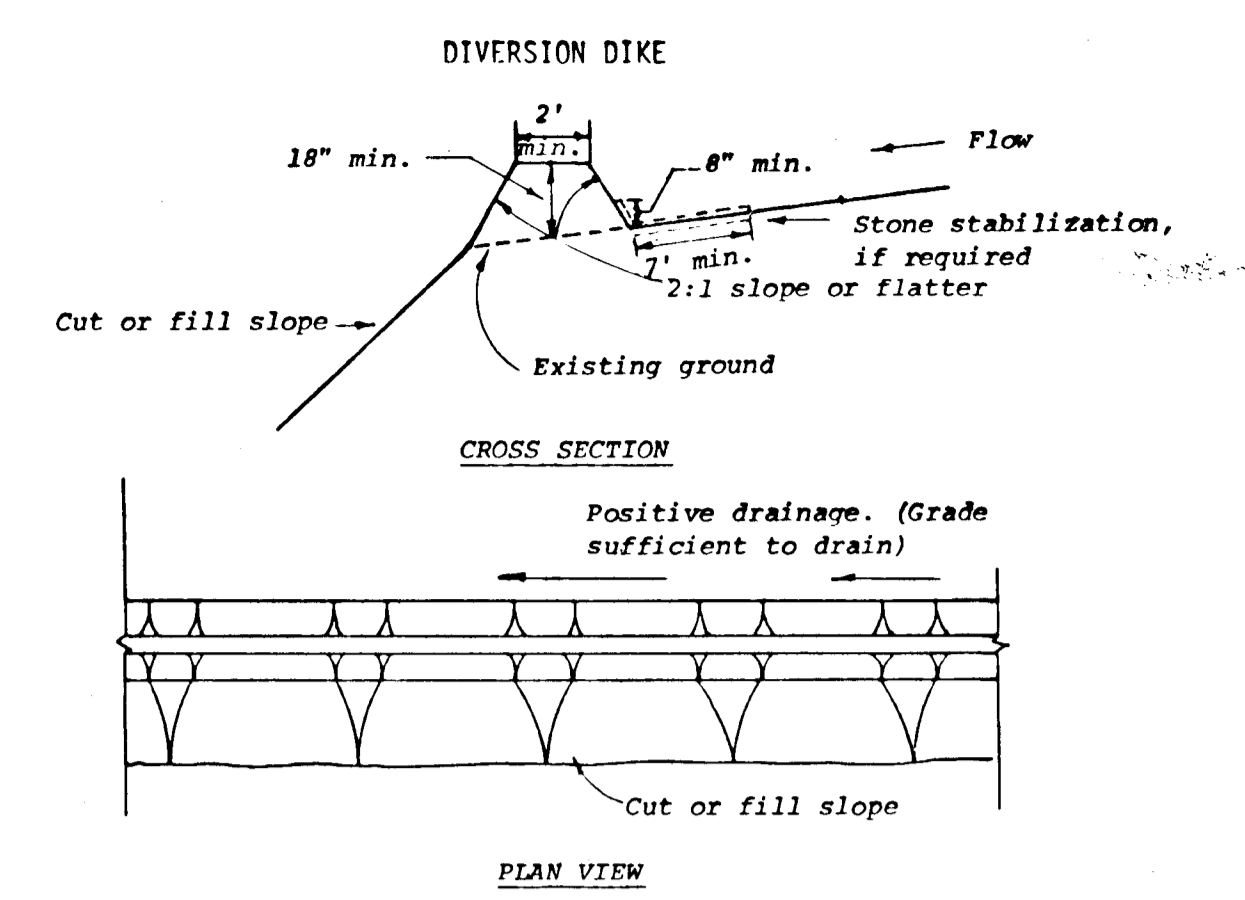
SCALE: AS SHOWN DATE: JULY 27, 1979 DWG. NO. 3 OF 5
DES. T.A.F./R.E.C. DRN. R.D.E. CHK. T.A.F./R.E.C.

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERING CONSULTANTS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



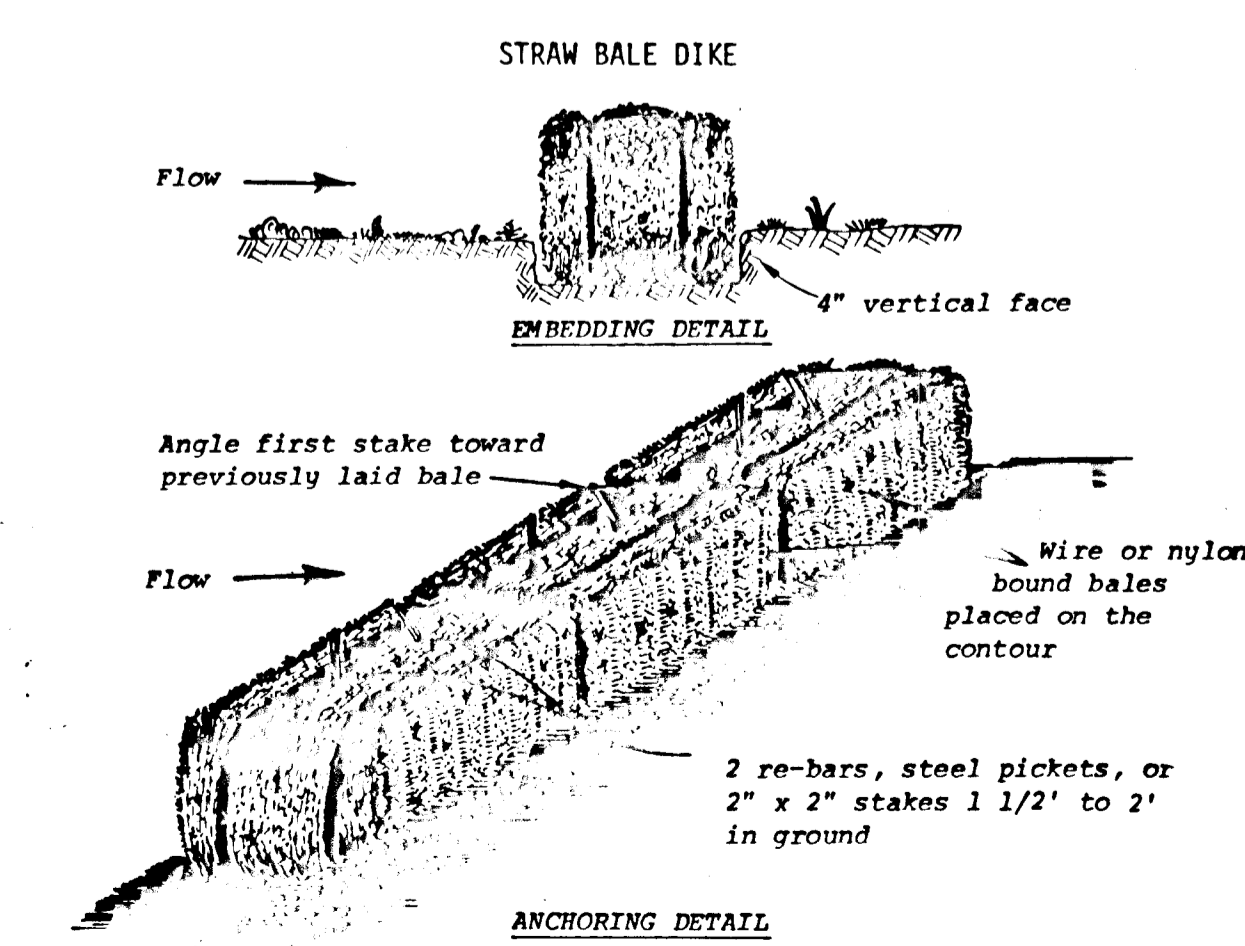
PLAN
DATE: _____
BY: _____
CHECKED: _____
NOTE BOOK: _____
NO. _____

PROFILE
DATE: _____
BY: _____
CHECKED: _____
NOTE BOOK: _____
NO. _____

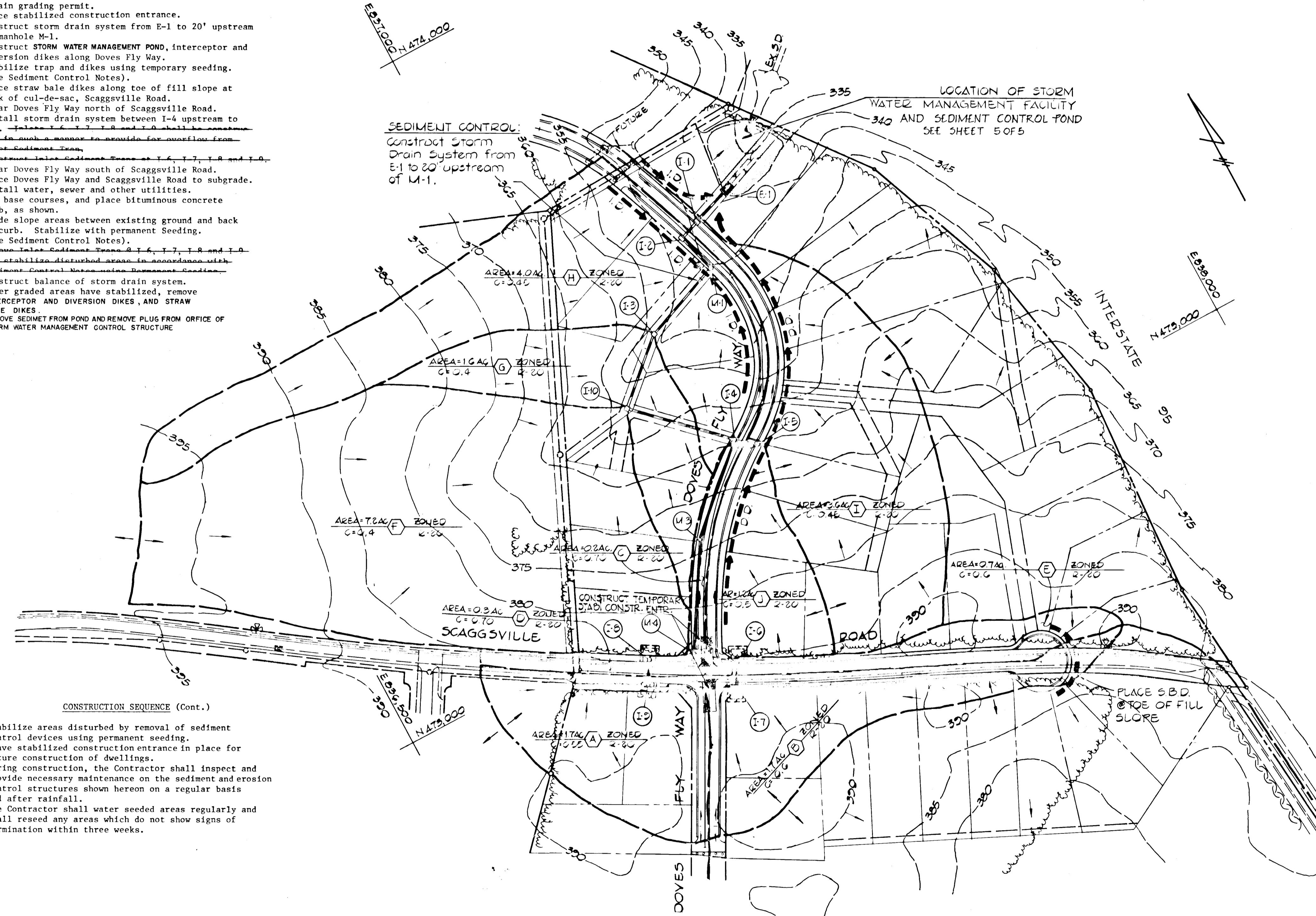


- CONSTRUCTION SEQUENCE**
1. Obtain grading permit.
 2. Place stabilized construction entrance.
 3. Construct storm drain system from E-1 to 20' upstream of manhole M-1.
 4. Construct STORM WATER MANAGEMENT POND, interceptor and diversion dikes along Doves Fly Way.
 5. Stabilize trap and dikes using temporary seeding. (See Sediment Control Notes).
 6. Place straw bale dikes along toe of fill slope at back of cul-de-sac, Scaggsville Road.
 7. Clear Doves Fly Way north of Scaggsville Road.
 8. Install storm drain system between I-4 upstream to I-9.
 9. ~~Remove inlet sediment traps I-1, I-2, I-3, I-4, I-5, I-6, I-7, I-8 and I-9 and stabilize disturbed areas in accordance with Sediment Control Notes and Permanent Seeding.~~
 10. Clear Doves Fly Way south of Scaggsville Road.
 11. Place Doves Fly Way and Scaggsville Road to subgrade.
 12. Install water, sewer and other utilities.
 13. Lay base courses, and place bituminous concrete curb, as shown.
 14. Grade slope areas between existing ground and back of curb. Stabilize with permanent seeding. (See Sediment Control Notes).
 15. ~~Remove inlet sediment traps I-1, I-2, I-3, I-4, I-5, I-6, I-7, I-8 and I-9 and stabilize disturbed areas in accordance with Sediment Control Notes and Permanent Seeding.~~
 16. Construct balance of storm drain system.
 17. After graded areas have stabilized, remove INTERCEPTOR AND DIVERSION DIKES, AND STRAW BALE DIKES. REMOVE SEDIMENT FROM POND AND REMOVE PLUG FROM OFFICE OF STORM WATER MANAGEMENT CONTROL STRUCTURE.

- SEDIMENT CONTROL NOTES**
1. Specifications for the Sediment Control Details shown hereon are included in the U.S.D.A. Soil Conservation Service "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas."
 2. The developer shall notify the Howard County Office of Inspections and Permits at least 24 hours prior to beginning any construction shown hereon (992-2433).
 3. Sediment control structures to be constructed prior to any on-site grading or disturbance to any existing surface material, and are to be stabilized as soon as constructed.
 4. All sediment control structures to remain in place until permission for their removal has been obtained from the Howard County Office of Inspection and Permits (992-2433).
 5. All graded areas not to be sodded shall be stabilized by seeding and mulching in accordance with the following:
 1. Site Preparation
 - A. Harrow or disc in areas proposed to be seeded the following materials:
 - 1) Pulverized limestone at 2 tons/acre.
 - 2) Commercial fertilizer 10-10-10 at 3/4 tons/acre.
 - 3) Super phosphate at 600 lbs./acre.
 2. Seeding
 - A. Sow the following seed mixture at the rate of 200 lbs./acre with a mechanical spreader.
 - 1) Temporary: Italian or Perennial Rye Grass
 - 2) Permanent: 40% Marion Blue Grass, 40% South Dakota Blue Grass and 20% Penn Lawn Creeping Red Fescue.
 - B. The seeded area shall then be raked with a York Rake (a minimum of 2 passes) covered and compacted with Outpacker or other approved method.
 3. Mulching
 - A. Seeded areas shall be uniformly mulched immediately after seeding with unweathered small grain straw at the rate of 1 1/2 tons/acre.
 - B. Tie mulch down with liquid asphalt at 0.1 gal./s.y. or emulsified asphalt at 0.04 gal./s.y. or mulch netting.
 6. A grading plan must be developed by the builder and approved before beginning construction of dwellings.



- CONSTRUCTION SEQUENCE (Cont.)**
18. Stabilize areas disturbed by removal of sediment control devices using permanent seeding.
 19. Leave stabilized construction entrance in place for future construction of dwellings.
 20. During construction, the Contractor shall inspect and provide necessary maintenance on the sediment and erosion control structures shown hereon on a regular basis and after rainfall.
 21. The Contractor shall water seeded areas regularly and shall reseed any areas which do not show signs of germination within three weeks.



SITE ANALYSIS

1. TOTAL AREA OF SITE	23.527 AC ±
2. AREA TO BE GRADED	2.506 AC ±
3. AREA TO BE PAVED	1.352 AC ±
4. AREA TO BE REVEGETATED	1.154 AC ±
5. UNDISTURBED AREA	21.021 AC ±

ENGINEER'S CERTIFICATE

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

Terrell A. Fisher 12/1/79 DATE

DEVELOPER'S CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND OR CONSTRUCTION WILL BE DONE 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.

John Wickham 12/13/79 DATE

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

Wendell B. Smith 7-11-79 DATE
U.S. SOIL CONSERVATION SERVICE

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

APPROVED: *Robert J. Zehner* 7/1/79 DATE
DISTRICT COMMISSIONER
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: DEPARTMENT OF PUBLIC WORKS

W. O. Patten 7-25-79 DATE
CHIEF, BUREAU OF ENGINEERING

APPROVED: OFFICE OF PLANNING AND ZONING

John W. Muehlenberg 7-12-79 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

LEGEND

- STABILIZED CONSTRUCTION ENT. [Symbol]
- DIVERSION DIKE [Symbol]
- INTERCEPTOR DIKE [Symbol]
- STRAW BALE DIKE [Symbol]
- STORM INLET SEDIMENT TRAP [Symbol]

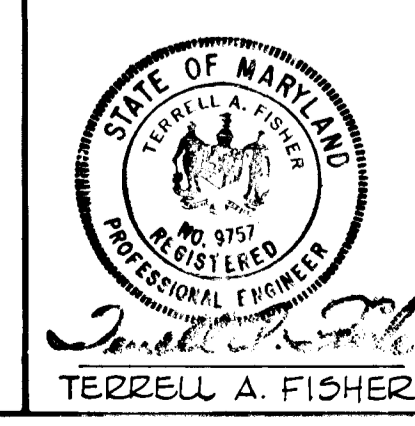
SECTION 1
CARDINAL FOREST
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

DRAINAGE AREA & SEDIMENT CONTROL MAP

OWNER AND DEVELOPER
FOXLEIGH JOINT VENTURE
124 TEACHERS BUILDING
COLUMBIA, MARYLAND 21044

SCALE: AS SHOWN DATE: NOV. 27, 1978 DWG. NO. 4 OF 5
DES. B.C. DRN. R.D.E. CHK. T.A.F.

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERING CONSULTANTS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

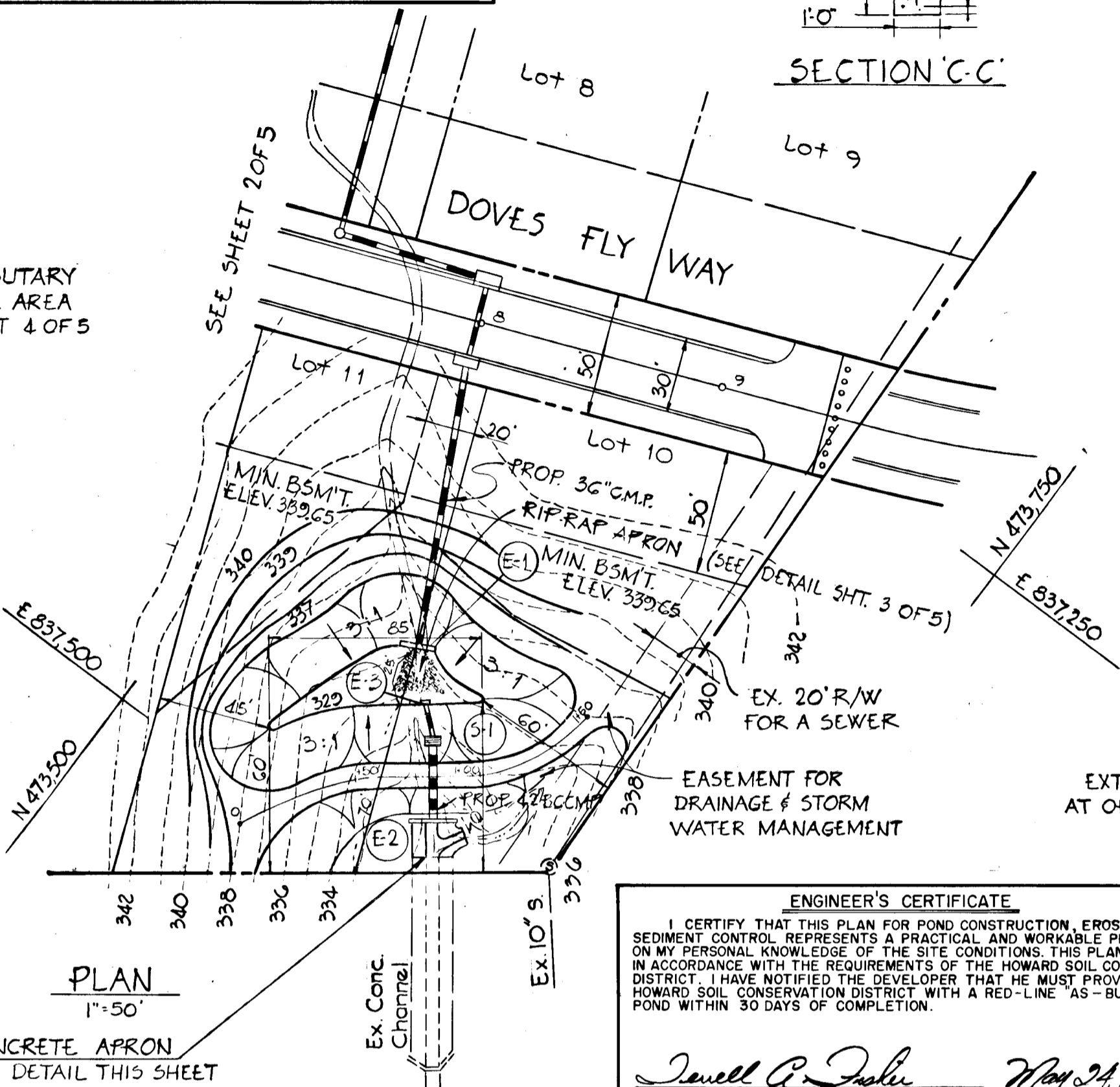


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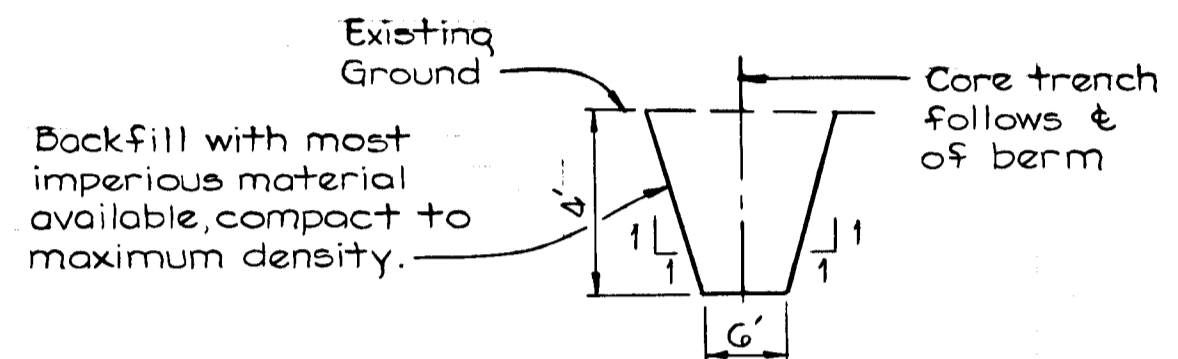
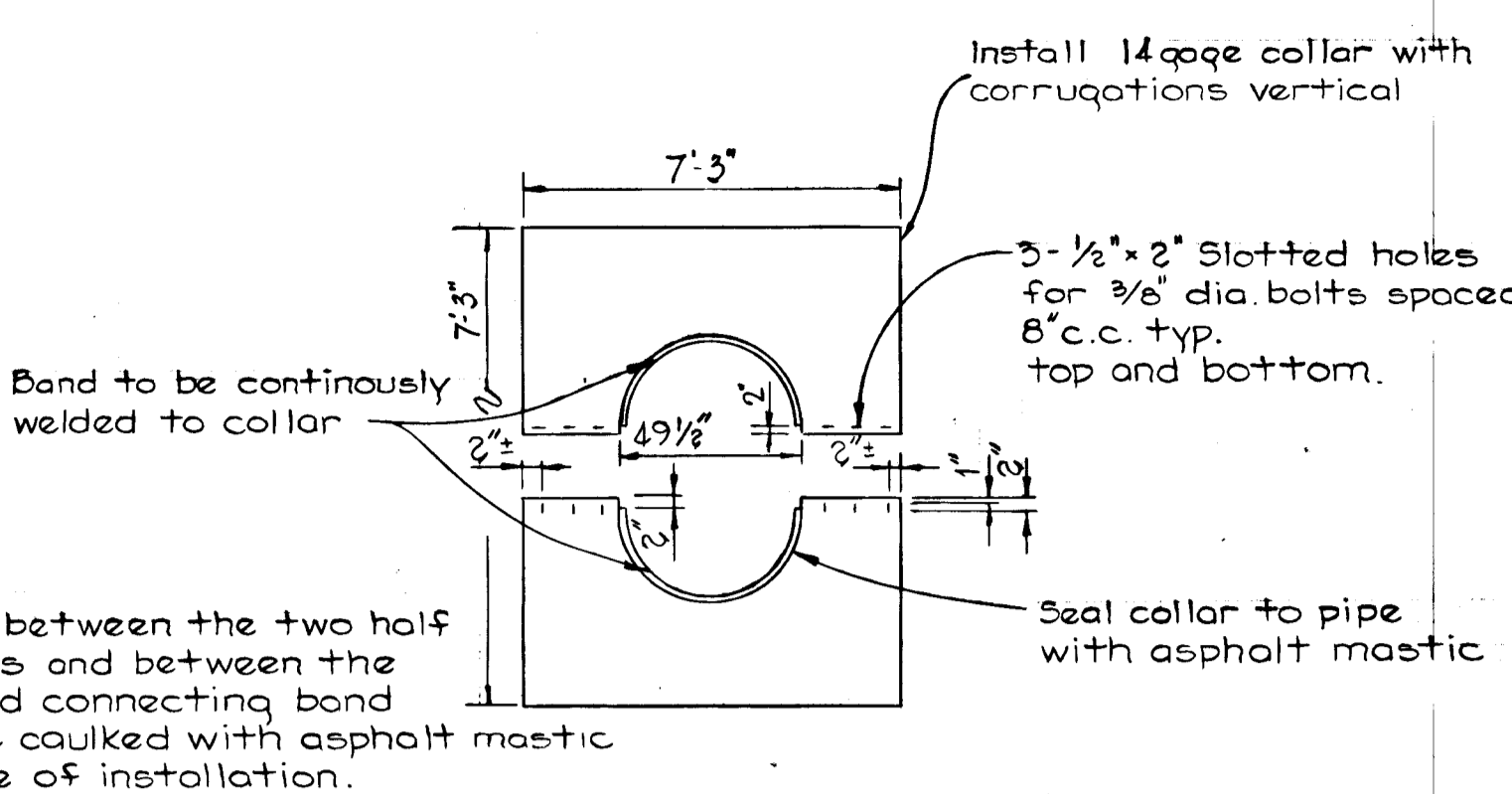
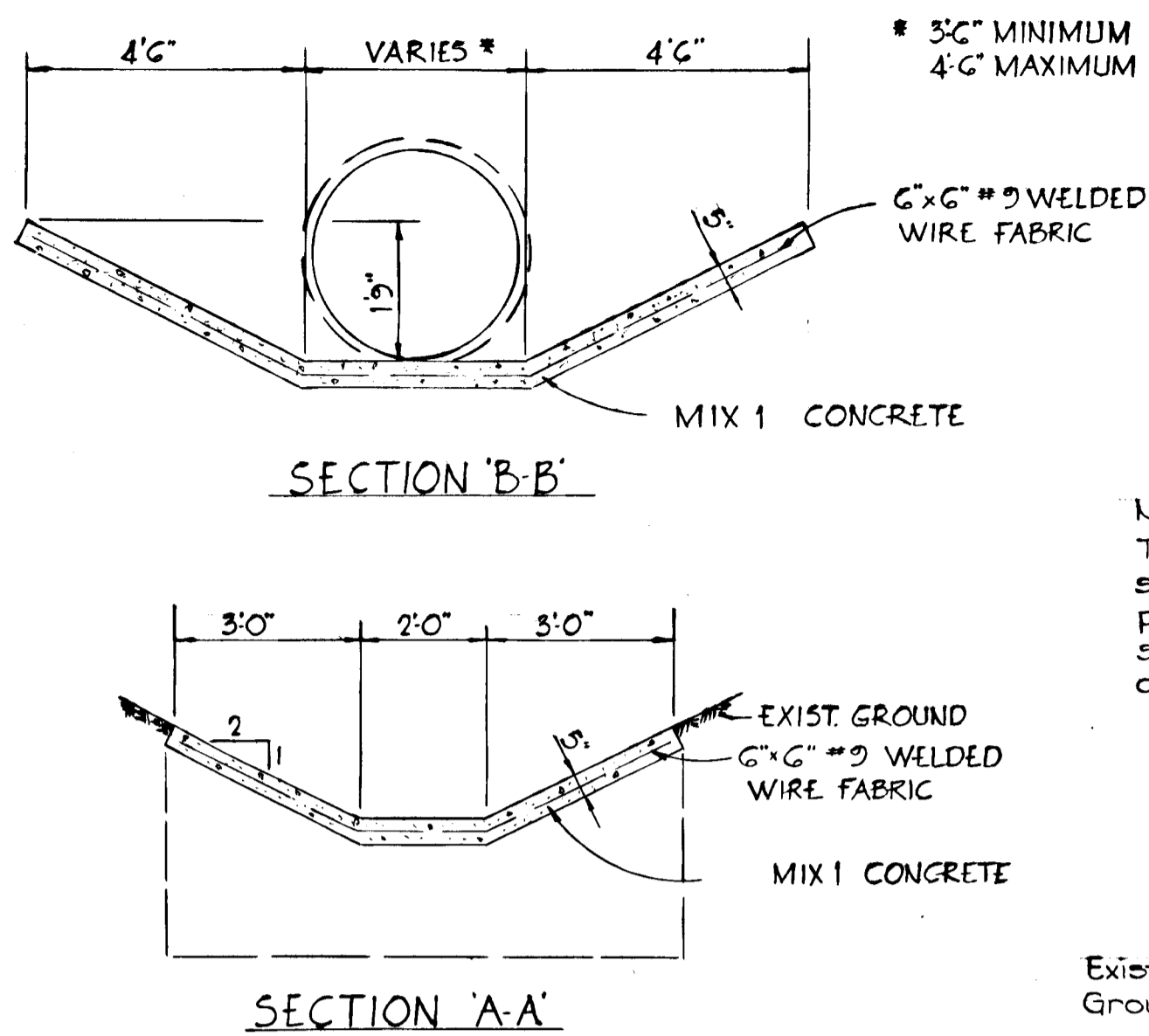
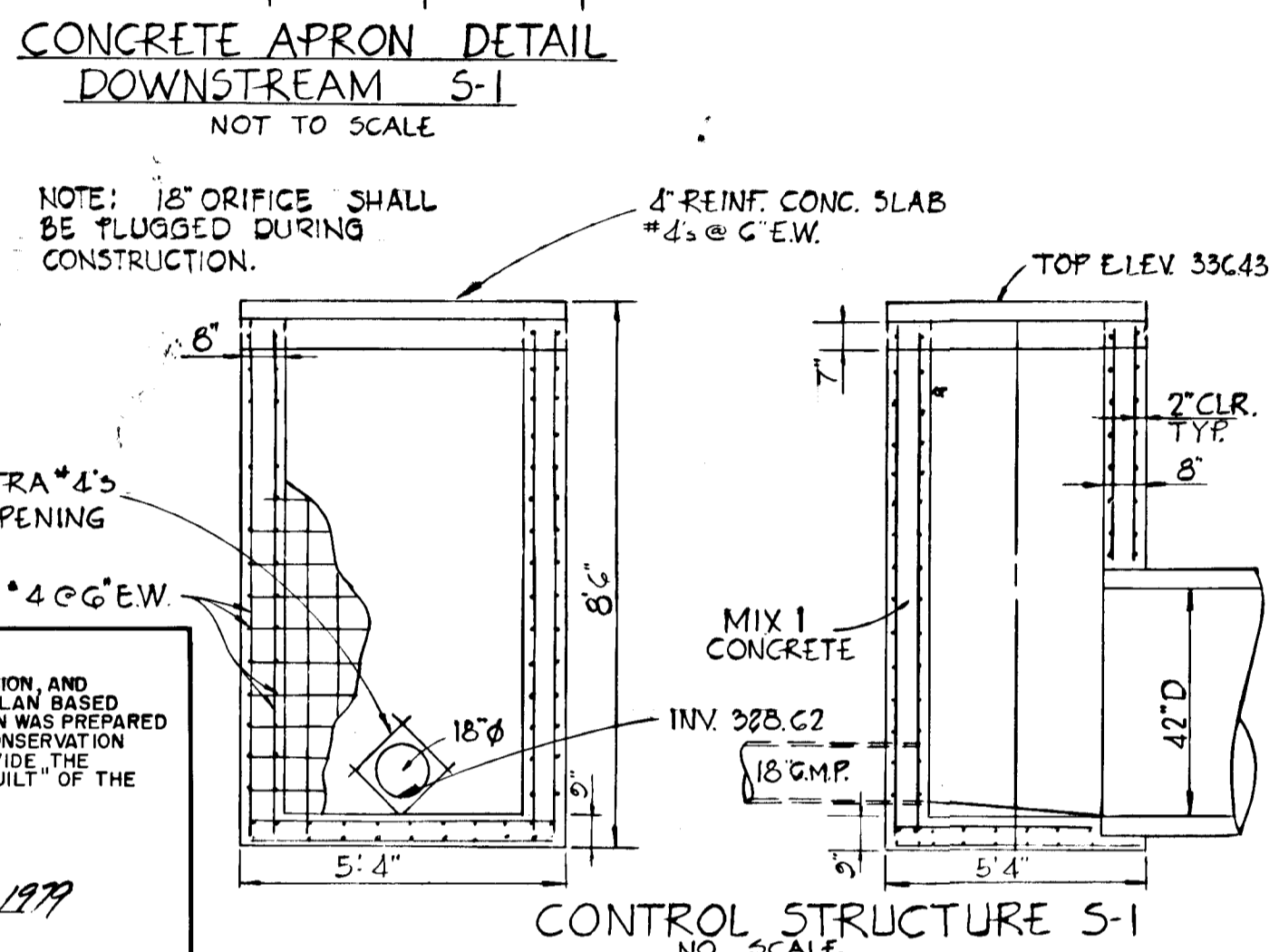
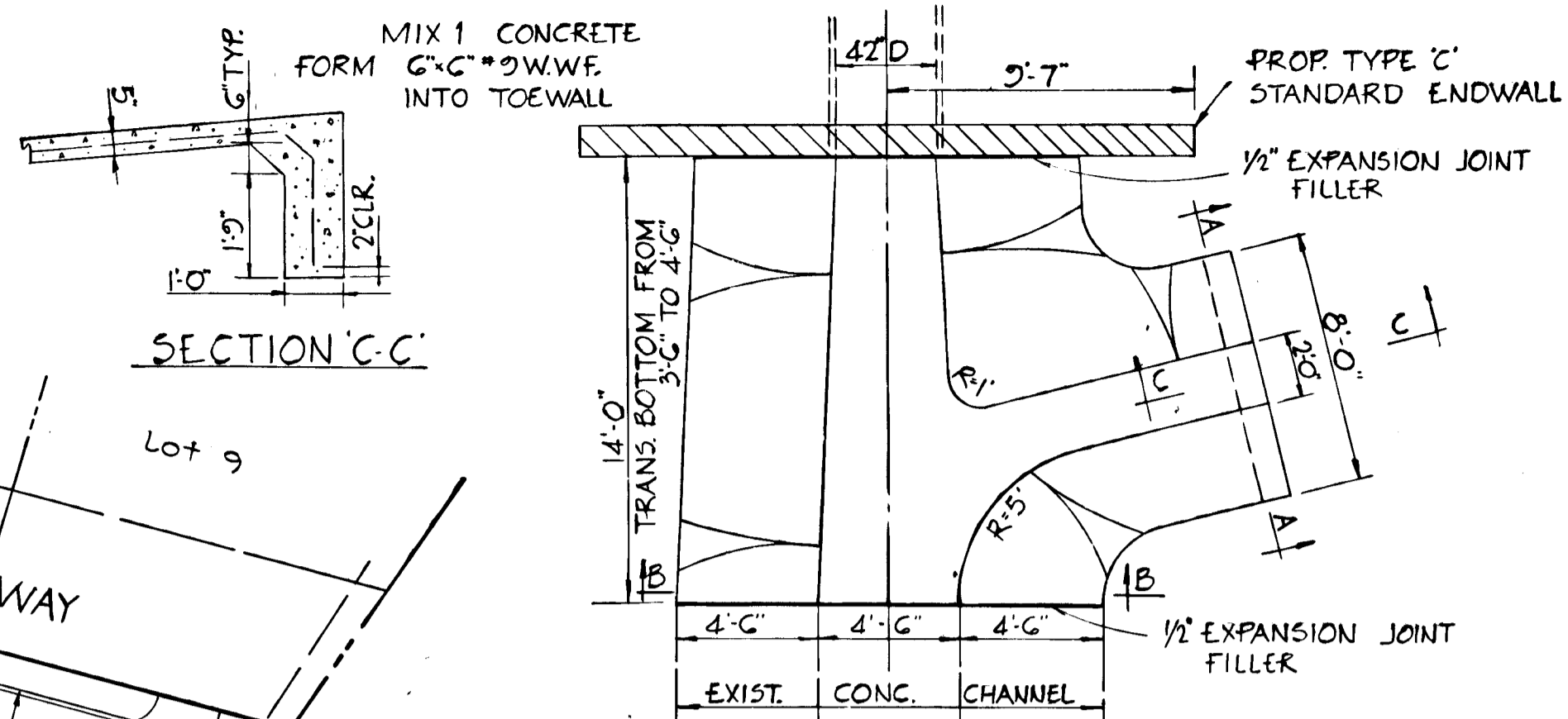
DEVELOPER'S CERTIFICATE
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT, POND CONSTRUCTION AND EROSION AND SEDIMENT CONTROL. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED "AS-BUILT" OF THE POND WITHIN 30 DAYS OF COMPLETION.
John Mikalakis 5-28-79
 DATE

DATE	
BY	
NO.	
DATE	
BY	
NO.	
DATE	
BY	
NO.	

NOTE: FOR TRIBUTARY DRAINAGE AREA SEE SHEET 4 OF 5



ENGINEER'S CERTIFICATE
 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 A RED-LINE "AS-BUILT" OF THE POND WITHIN 30 DAYS OF COMPLETION.
Terrell A. Fisher May 21, 1979
 DATE



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.
Wm. T. B. Smith 7-11-79
 U.S. SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Richard D. Fisher 7/11/79
 HOWARD SOIL CONSERVATION DISTRICT DATE
 PLAN NUMBER

APPROVED: DEPARTMENT OF PUBLIC WORKS
W. O. P. Smith 7-25-79
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: OFFICE OF PLANNING AND ZONING
John W. Mansman 7-12-79
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

SECTION 1
CARDINAL FOREST
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

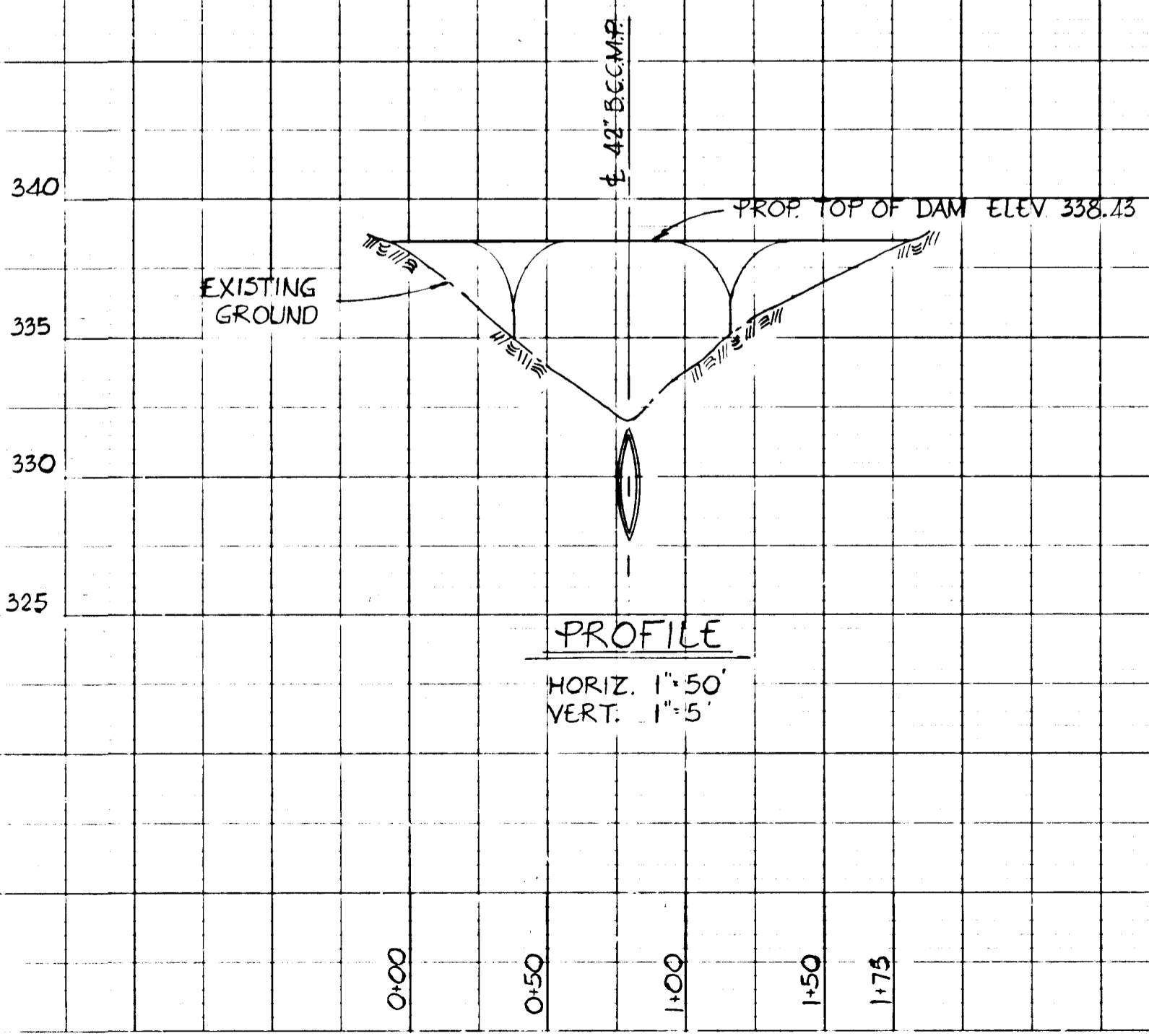
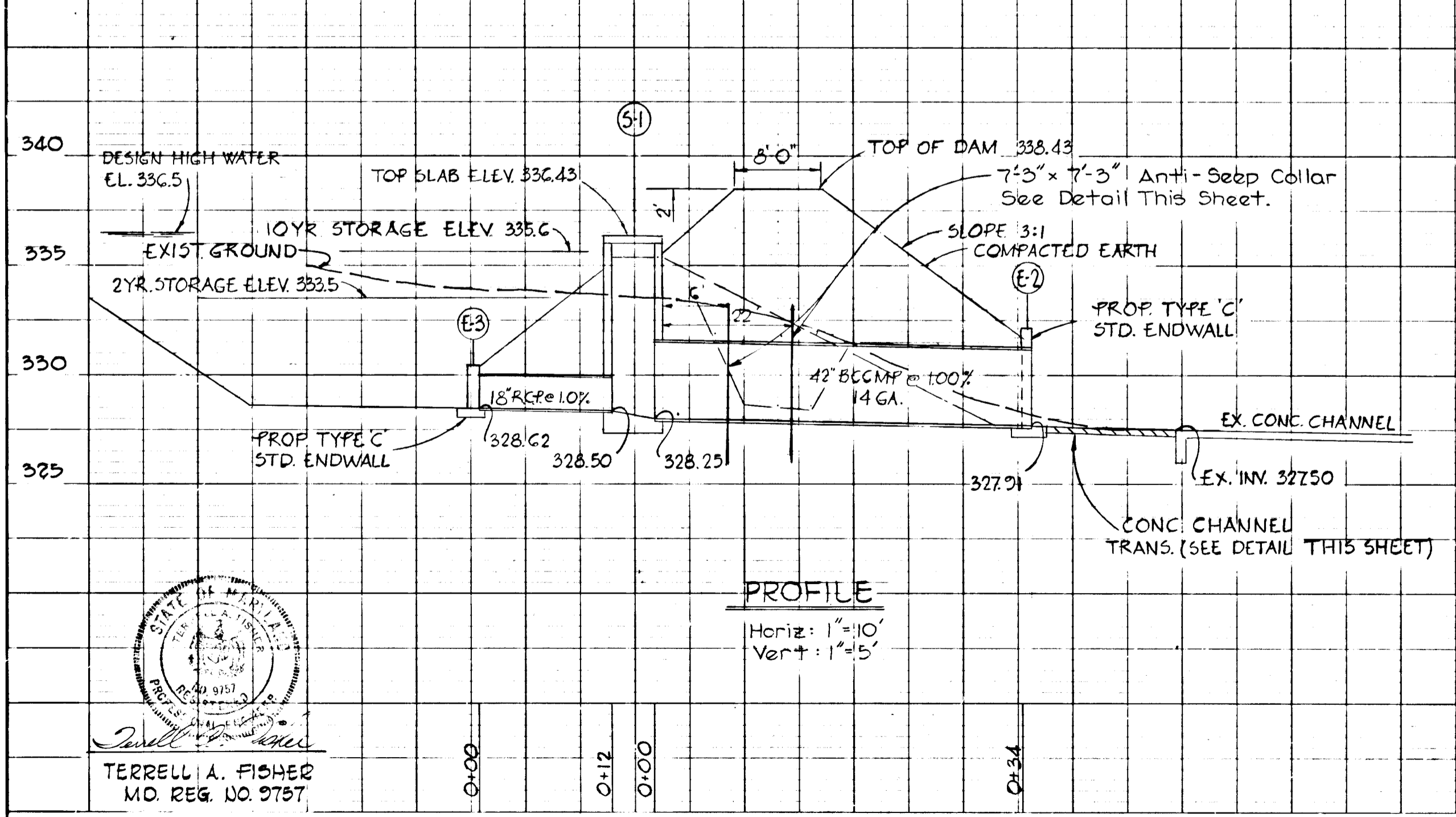
STORM WATER MANAGEMENT PLAN AND DETAILS

OWNER AND DEVELOPER
FOXLEIGH JOINT VENTURE
 124 TEACHERS BUILDING
 COLUMBIA, MARYLAND 21044

SCALE: AS SHOWN DATE: FEB. 5, 1979 DWG. NO. 5 OF 5
 DES. R.B.C. DRN. D.B.S. CHK. E.D.C.

FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

TEMPORARY SEDIMENT BASIN AND PERMANENT STORM WATER MANAGEMENT FACILITY



#728

STATE OF MARYLAND
 ENGINEER
Terrell A. Fisher
 TERRELL A. FISHER
 M.D. REG. NO. 9757