

GENERAL NOTES

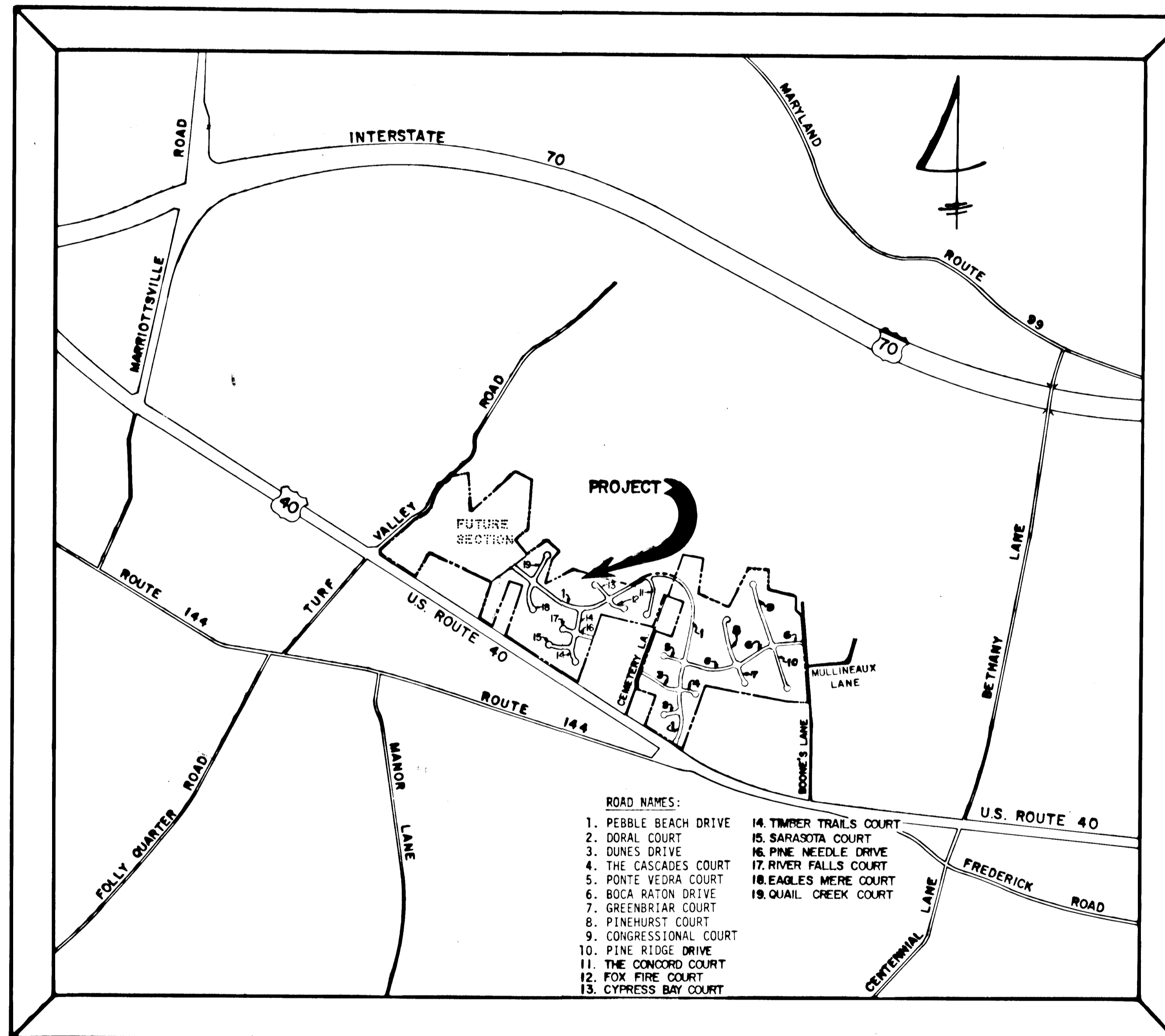
- 1.) ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS, AND DETAILS FOR CONSTRUCTION.
- 2.) ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HOURS IN ADVANCE OF ANY CONSTRUCTION.
- 3.) ALL INLETS SHALL BE HOWARD COUNTY STANDARDS UNLESS OTHERWISE SHOWN ALL "A" INLETS SHALL BE 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, 1978 EDITION.

TURF VALLEY OVERLOOK

SECTION TWO AREA ONE

SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

APPROVED	DEPARTMENT OF PUBLIC WORKS	<i>[Signature]</i>	11-5-87
	CHIEF, BUREAU OF ENGINEERING		DATE
APPROVED	OFFICE OF PLANNING AND ZONING	<i>[Signature]</i>	11-2-87
	CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION		DATE
APPROVED	DEPARTMENT OF PUBLIC WORKS	<i>[Signature]</i>	11/4/87
	CHIEF, BUREAU OF HIGHWAYS		DATE
APPROVED	DEPARTMENT OF PUBLIC WORKS	<i>[Signature]</i>	11-2-87
	CHIEF, LAND DEVELOPMENT DIVISION		DATE



VICINITY MAP
SCALE: 1" = 1200'

INDEX OF SHEETS

- 1.) TITLE SHEET
- 2.) PEBBLE BEACH DRIVE PLAN AND PROFILE
- 3.) CYPRESS BAY COURT AND FOX FIRE COURT PLAN AND PROFILE
- 4.) PEBBLE BEACH DRIVE PLAN AND PROFILE
- 5.) THE CONCORD COURT PLAN AND PROFILE
- 6.) TIMBER TRAILS COURT, RIVER FALLS COURT, & PINE NEEDLE DRIVE PLAN AND PROFILE
- 7.) TIMBER TRAILS COURT AND SARASOTA COURT PLAN AND PROFILE
- 8.) QUAIL CREEK COURT PLAN AND PROFILE
- 9.) EAGLES MERE COURT PLAN AND PROFILE
- 10.) ROADWAY SECTION, DETAILS AND NOTES
- 11.) DRAINAGE AREA MAP
- 12.) STORM DRAIN PROFILES
- 13.) STORM DRAIN PROFILES
- 14.) STORM DRAIN PROFILES AND DETAILS.
- 15.) POND SPECIFICATIONS & DETAILS FOR PONDS 1 & 2.
- 16.) STREET TREE, GRADING AND SEDIMENT CONTROL PLAN.
- 17.) STREET TREE, GRADING AND SEDIMENT CONTROL PLAN.
- 18.) STREET TREE, GRADING AND SEDIMENT CONTROL PLAN.

BENCH MARKS

- B.M.#1** ELEV. 438.22
HUB WITH TACK SET IN REAR OF LOT 182-TRAVERSE STA. "ARN" FOR LOCATION SEE SHEET 16
- B.M.#2** ELEV. 429.72
HUB WITH TACK SET IN CENTER OF LOT-271 TRAVERSE STA. "RUSS-6" FOR LOCATION SEE SHEET 17

STREET LIGHTS

- PROVIDE 175 WATT MODERN VAPOR LAMP POST TOP FIXTURES ON 14 FOOT GRAY FIBERGLASS POLES TO BE LOCATED AT THE FOLLOWING LOCATIONS.
- 1.) PEBBLE BEACH DRIVE AT THE EAST CORNER OF CONCORD COURT
 - 2.) PEBBLE BEACH DRIVE AT STA. 35+00, RIGHT.
 - 3.) PEBBLE BEACH DRIVE AT THE NORTHWEST CORNER OF CYPRESS BAY COURT.
 - 4.) PEBBLE BEACH DRIVE AT THE WEST CORNER OF TIMBER TRAILS COURT
 - 5.) PEBBLE BEACH DRIVE AT THE NORTHEAST CORNER OF QUAIL CREEK COURT.
 - 6.) PEBBLE BEACH DRIVE AT STA. 47+00 LEFT.
 - 7.) CONCORD COURT AT STA. 4+00 RIGHT.
 - 8.) TIMBER TRAILS COURT AT THE NORTHWEST CORNER OF RIVER FALLS COURT.
 - 9.) TIMBER TRAILS COURT AT THE SOUTH CORNER OF SARASOTA COURT.

ROAD NAMES:

- | | |
|------------------------|-------------------------|
| 1. PEBBLE BEACH DRIVE | 14. TIMBER TRAILS COURT |
| 2. DORAL COURT | 15. SARASOTA COURT |
| 3. DUNES DRIVE | 16. PINE NEEDLE DRIVE |
| 4. THE CASCADES COURT | 17. RIVER FALLS COURT |
| 5. PONTE VEDRA COURT | 18. EAGLES MERE COURT |
| 6. BOCA RATON DRIVE | 19. QUAIL CREEK COURT |
| 7. GREENBRIAR COURT | |
| 8. PINEHURST COURT | |
| 9. CONGRESSIONAL COURT | |
| 10. PINE RIDGE DRIVE | |
| 11. THE CONCORD COURT | |
| 12. FOX FIRE COURT | |
| 13. CYPRESS BAY COURT | |

THE HORIZONTAL AND VERTICAL CONTROL IS BASED ON THE FOLLOWING HOWARD COUNTY CONTROL STATIONS:

3440001	N 55° 47' 35" 481
	E 83° 26' 27" 4
3440002	N 55° 57' 3" 000
	E 83° 26' 27" 4

THIS AS-BUILT SURVEY CERTIFIED BY CHARLES J. CROVO, MD. PE. No. 13204 ON SEPTEMBER 17, 1990.

FISHER, COLLINS, AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043
TELEPHONE (301) 461-2855

OWNER AND DEVELOPER
PEDDICOORD PROPERTY PARTNERSHIP C/O
HOWARD COUNTY LAND SERVICES, INC.
8307 MAIN STREET ELLICOTT CITY, MD. 21043 (301) 461-7100

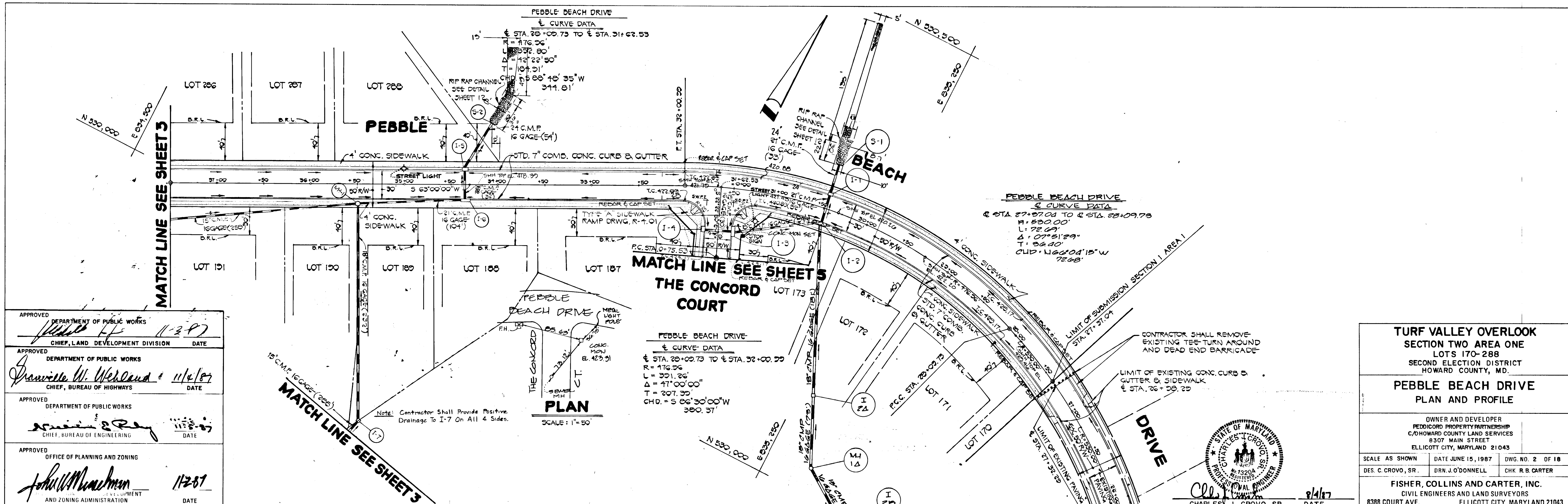


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NOTE BOOK	
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APPROVED	DEPARTMENT OF PUBLIC WORKS	DATE
<i>[Signature]</i>	CHIEF, LAND DEVELOPMENT DIVISION	11/2/87
APPROVED	DEPARTMENT OF PUBLIC WORKS	DATE
<i>[Signature]</i>	CHIEF, BUREAU OF HIGHWAYS	11/4/87
APPROVED	DEPARTMENT OF PUBLIC WORKS	DATE
<i>[Signature]</i>	CHIEF, BUREAU OF ENGINEERING	11/25/87
APPROVED	OFFICE OF PLANNING AND ZONING	DATE
<i>[Signature]</i>	AND ZONING ADMINISTRATION	11/2/87

DATE	
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APPROVED	DATE
<i>[Signature]</i>	



TURF VALLEY OVERLOOK SECTION TWO AREA ONE
 LOTS 170-288
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MD.

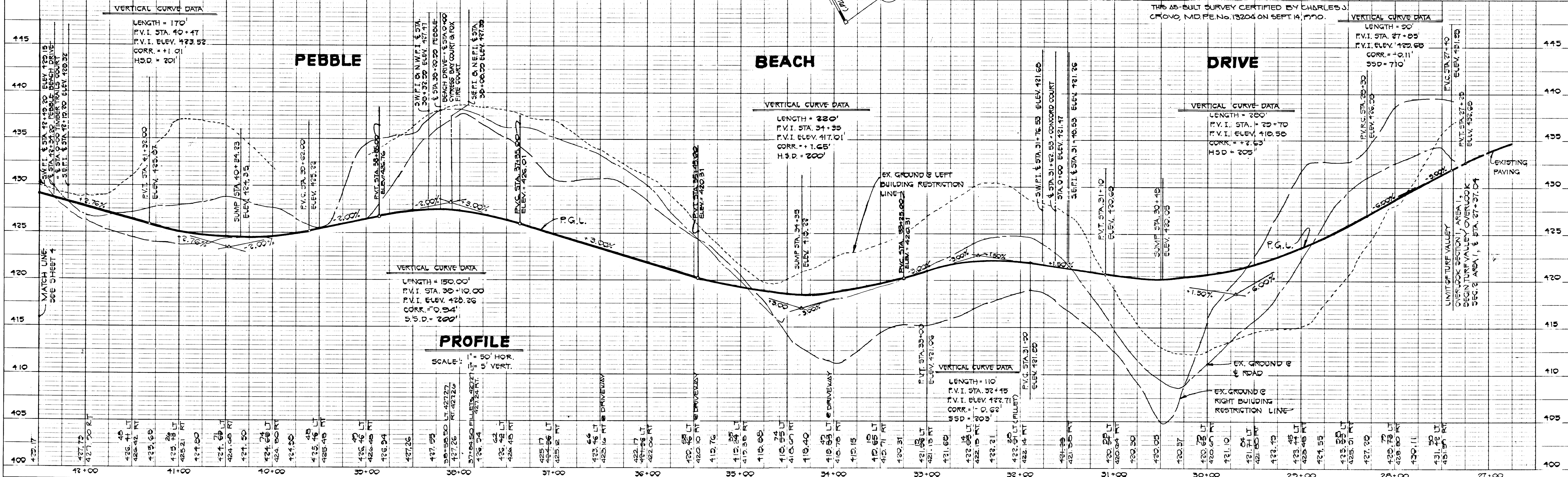
PEBBLE BEACH DRIVE PLAN AND PROFILE

OWNER AND DEVELOPER
 PEDICORD PROPERTY PARTNERSHIP
 C/O HOWARD COUNTY LAND SERVICES
 8307 MAIN STREET
 ELLICOTT CITY, MARYLAND 21043

SCALE AS SHOWN DATE JUNE 15, 1987 DWG. NO. 2 OF 18
 DES. C. CROVO, SR. DRN. J. O'DONNELL CHK. R. B. CARTER

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

STATE OF MARYLAND
 CHARLES J. CROVO, SR. PROFESSIONAL ENGINEER
 8/4/87



265

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BY
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ALIGNMENT CHECKED
NOTE BOOK
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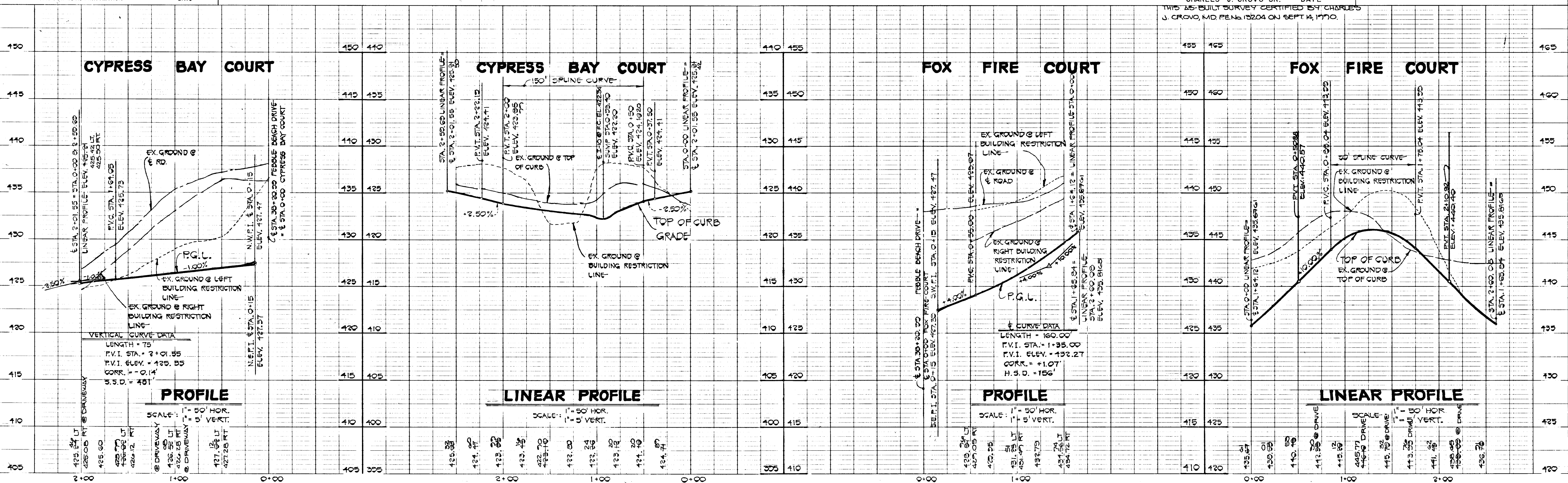
DATE
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SURVEYED
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NOTE BOOK
NO.

APPROVED
DEPARTMENT OF PUBLIC WORKS
Michael H. [Signature] 11/28/87
CHIEF LAND DEVELOPMENT DIVISION DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
Francis M. [Signature] 11/18/87
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
[Signature] 11/23/87
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED
OFFICE OF PLANNING AND ZONING
John M. [Signature] 11/28/87
CHIEF, DIVISION OF PLANNING AND ZONING ADMINISTRATION DATE



TURF VALLEY OVERLOOK
SECTION TWO AREA ONE
LOTS 170-288
SECOND ELECTION DISTRICT
HOWARD COUNTY, MD.

CYPRESS BAY COURT AND FOX FIRE COURT
PLAN AND PROFILE

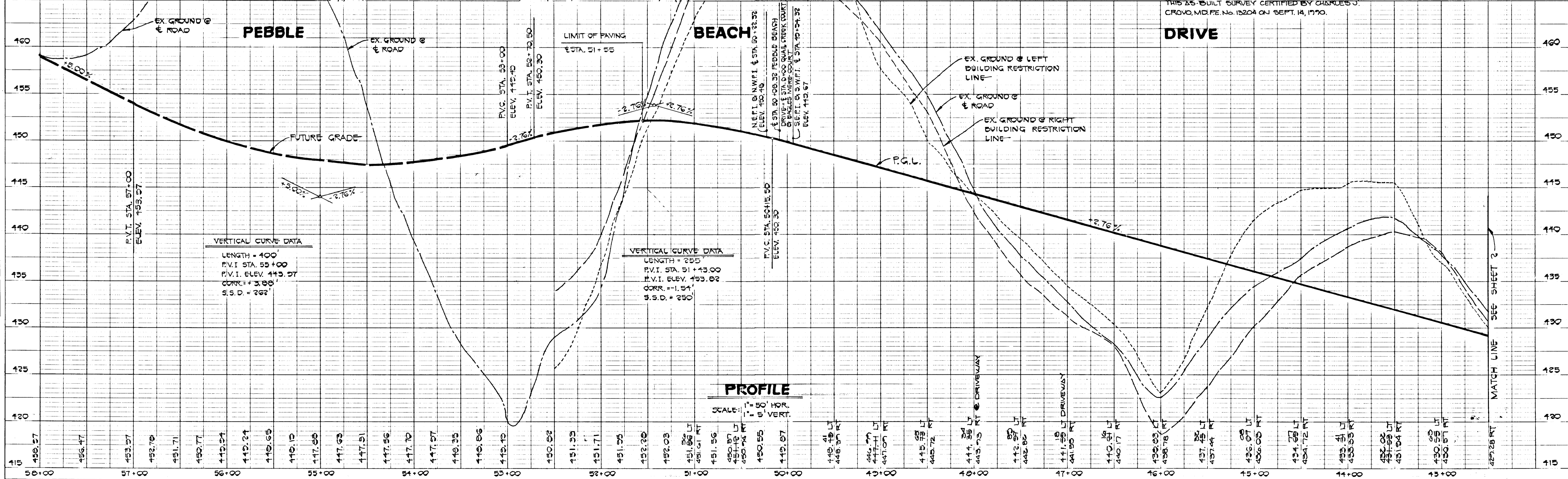
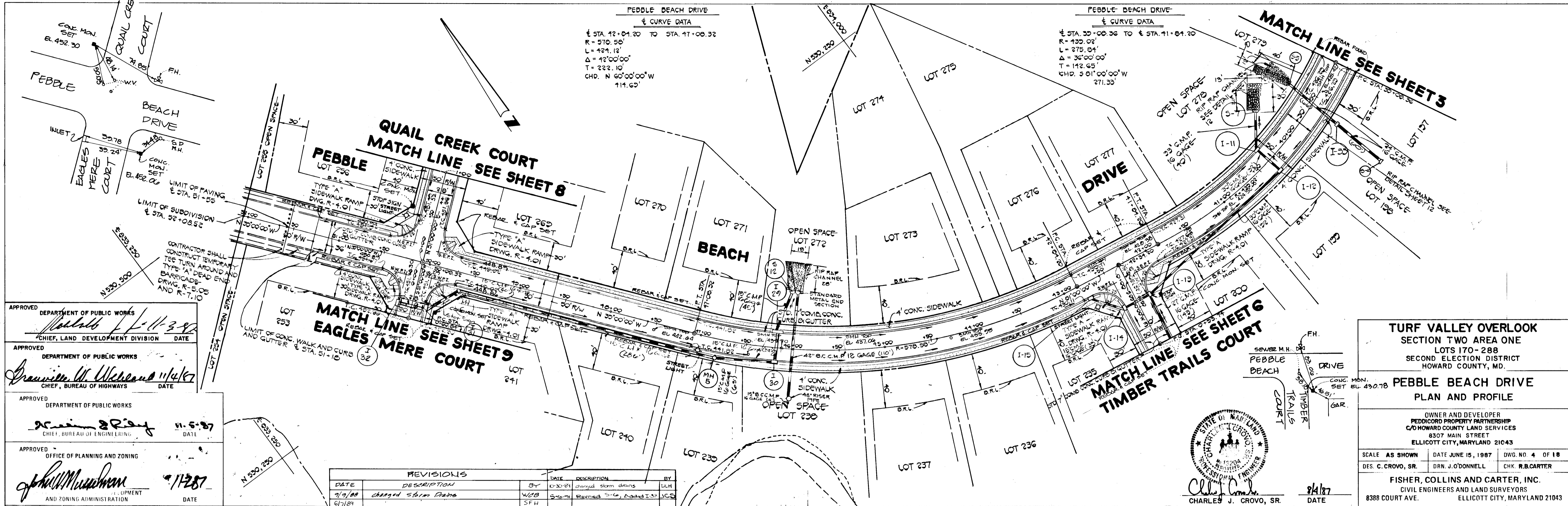
OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
C/O HOWARD COUNTY LAND SERVICES
8307 MAIN STREET
ELLICOTT CITY, MARYLAND 21043

SCALE AS SHOWN DATE JUNE 15, 1987 DWG. NO. 3 OF 18
DES. C. CROVO, SR. DRN. J. O'DONNELL CHK. R. B. CARTER

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

CHARLES J. CROVO SR. 6/14/87
DATE

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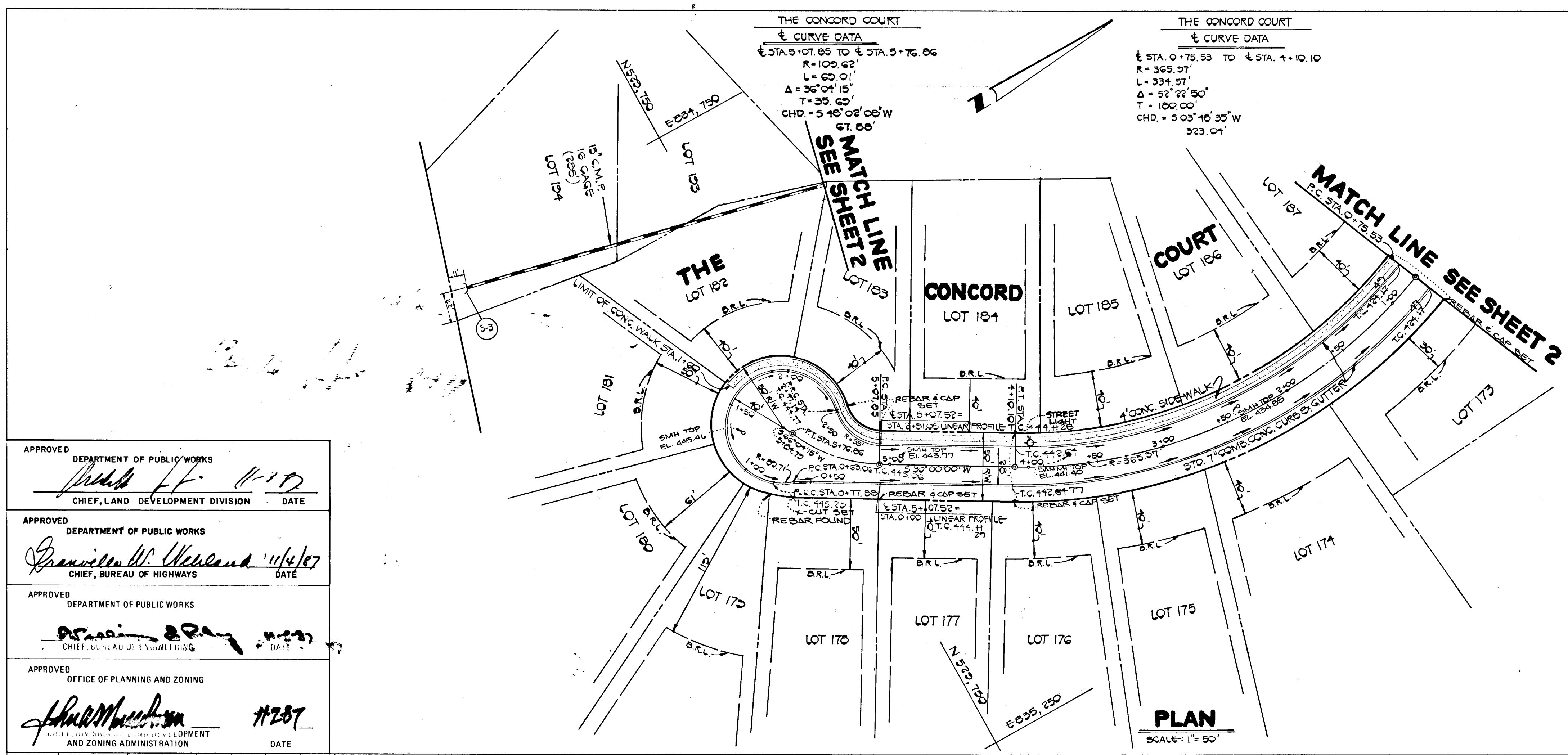


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CONSTRUCTION	
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CONSTRUCTION	
DATE	



APPROVED DEPARTMENT OF PUBLIC WORKS
[Signature] 11/17
 CHIEF, LAND DEVELOPMENT DIVISION DATE

APPROVED DEPARTMENT OF PUBLIC WORKS
[Signature] 11/14/87
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED DEPARTMENT OF PUBLIC WORKS
[Signature] 11-23
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED OFFICE OF PLANNING AND ZONING
[Signature] 11-28-87
 AND ZONING ADMINISTRATION DATE

TURF VALLEY OVERLOOK
 SECTION TWO AREA ONE
 LOTS 170-288
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MD.

THE CONCORD COURT
 PLAN AND PROFILE

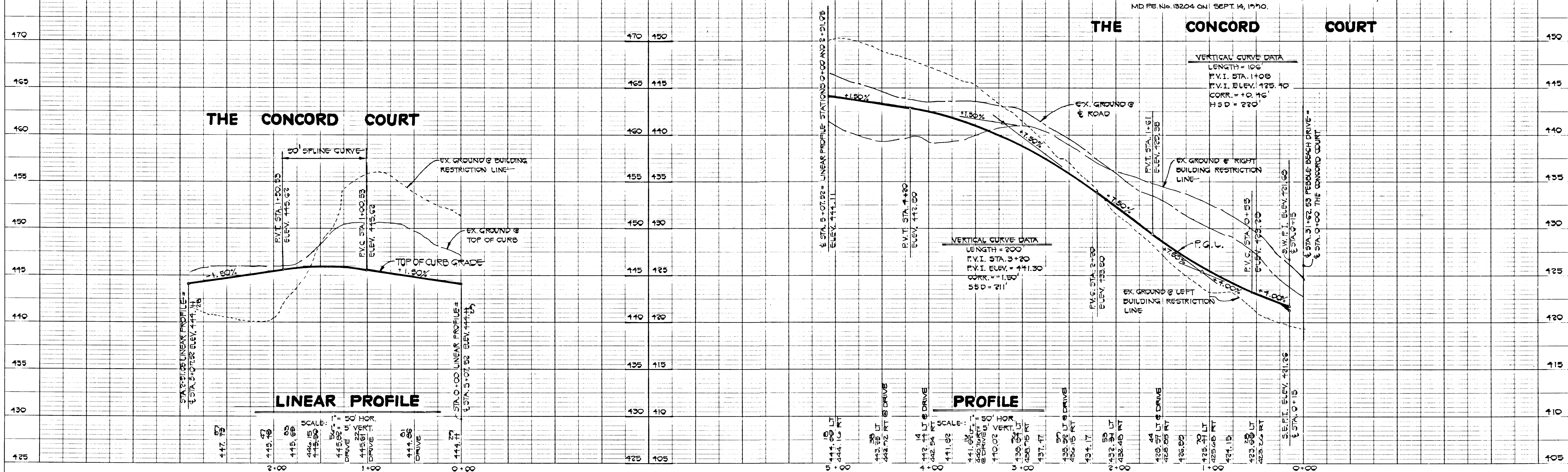
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 C/O HOWARD COUNTY LAND SERVICES
 8307 MAIN STREET
 ELLICOTT CITY, MARYLAND 21043

SCALE AS SHOWN DATE JUNE 15, 1987 DWG. NO. 5 OF 18
 DES. C. CROVO, SR. DRN. J. O'DONNELL CHK. R. B. CARTER

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



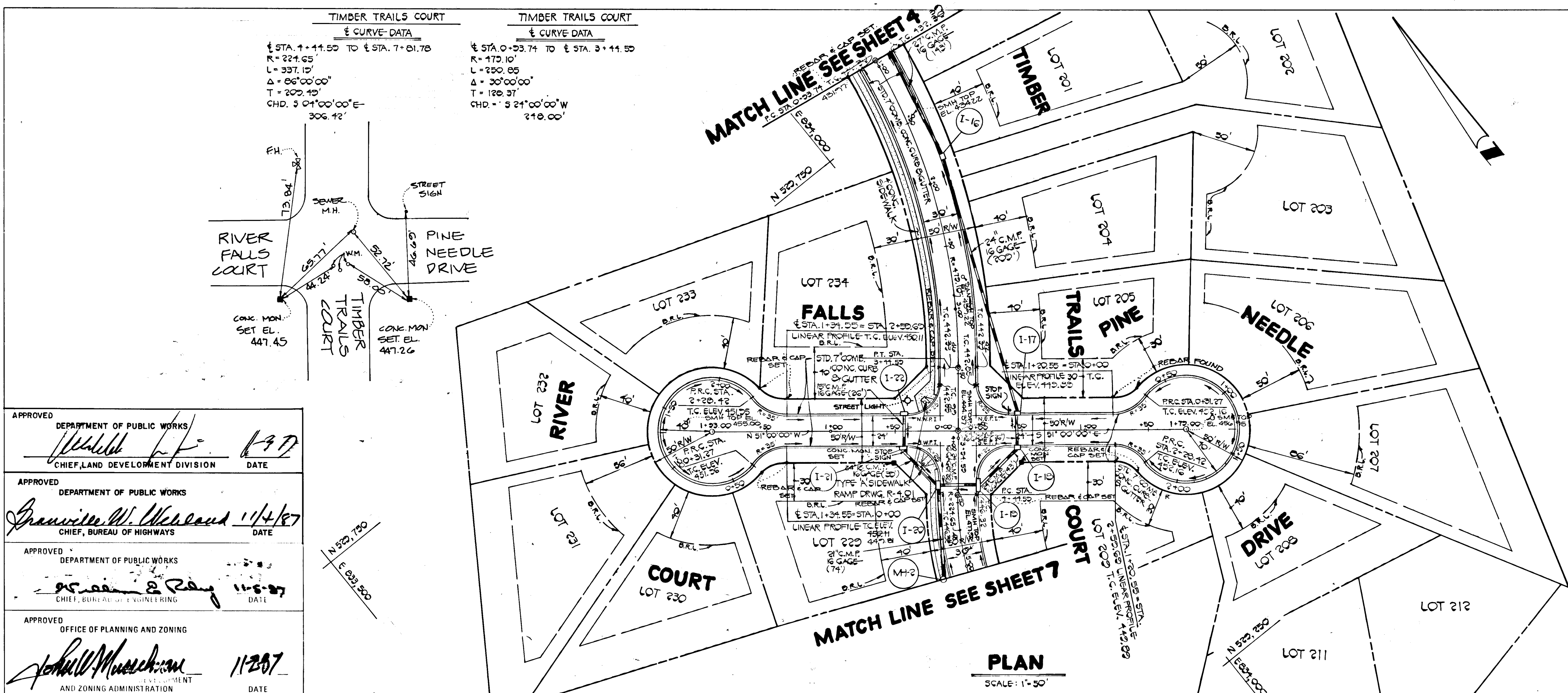
CHARLES J. CROVO SR. 8/4/87
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265

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APPROVED DEPARTMENT OF PUBLIC WORKS
[Signature] 1/31/87
 CHIEF, LAND DEVELOPMENT DIVISION DATE

APPROVED DEPARTMENT OF PUBLIC WORKS
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 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED DEPARTMENT OF PUBLIC WORKS
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 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED OFFICE OF PLANNING AND ZONING
[Signature] 1/28/87
 AND ZONING ADMINISTRATION DATE



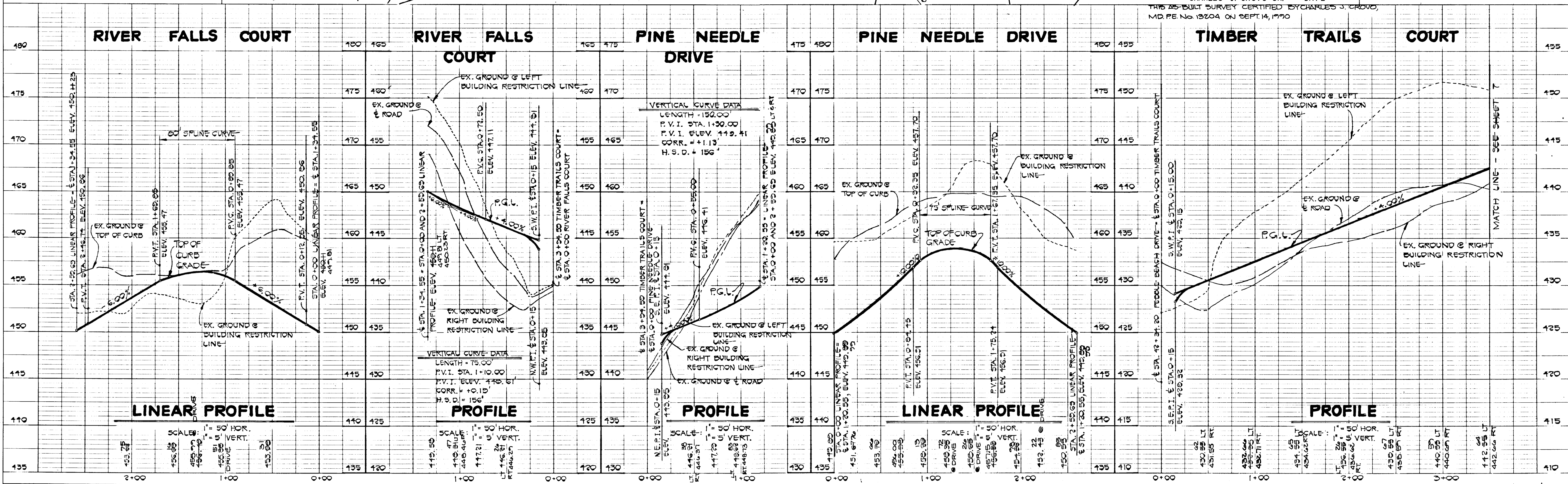
TURF VALLEY OVERLOOK
 SECTION TWO AREA ONE
 LOTS 170-288
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MD.

TIMBER TRAILS COURT **RIVER FALLS COURT & PINE NEEDLE DRIVE**
 PLAN AND PROFILE PLAN AND PROFILE

OWNER AND DEVELOPER
 PEDICORD PROPERTY PARTNERSHIP
 C/O HOWARD COUNTY LAND SERVICES
 8307 MAIN STREET
 ELLICOTT CITY, MARYLAND 21043

SCALE AS SHOWN DATE JUNE 15, 1987 DWG. NO. 6 OF 18
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FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
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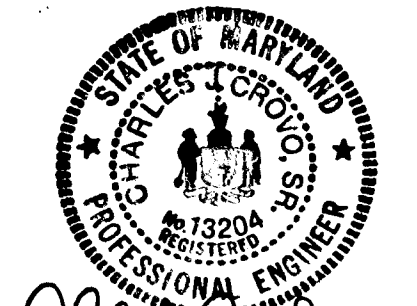
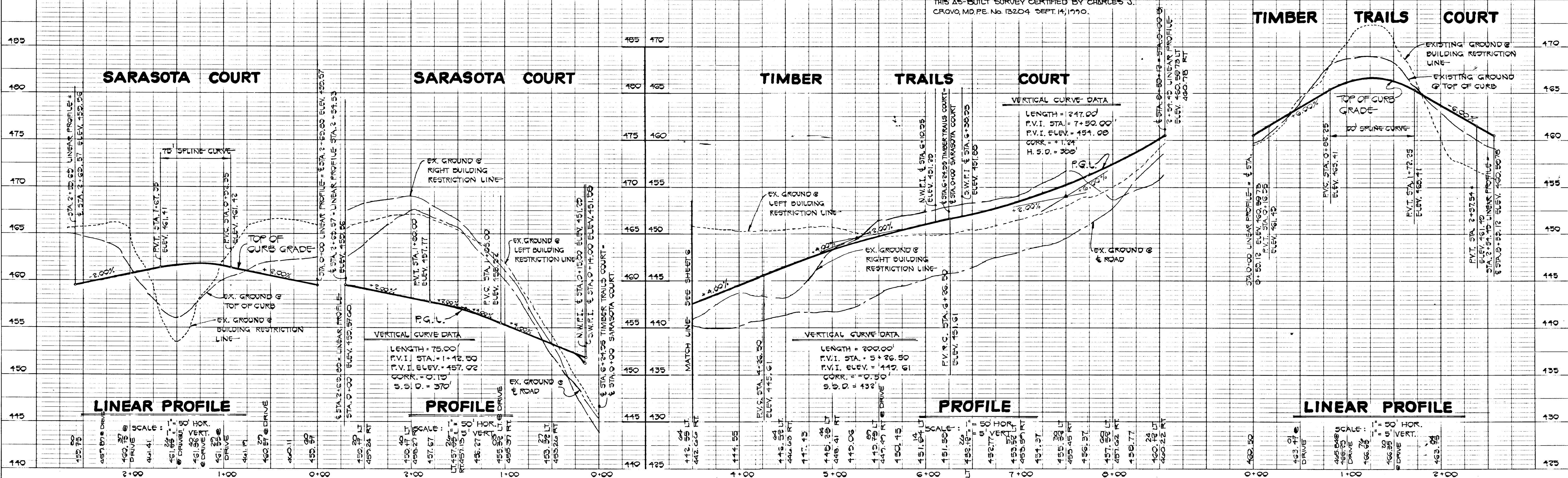
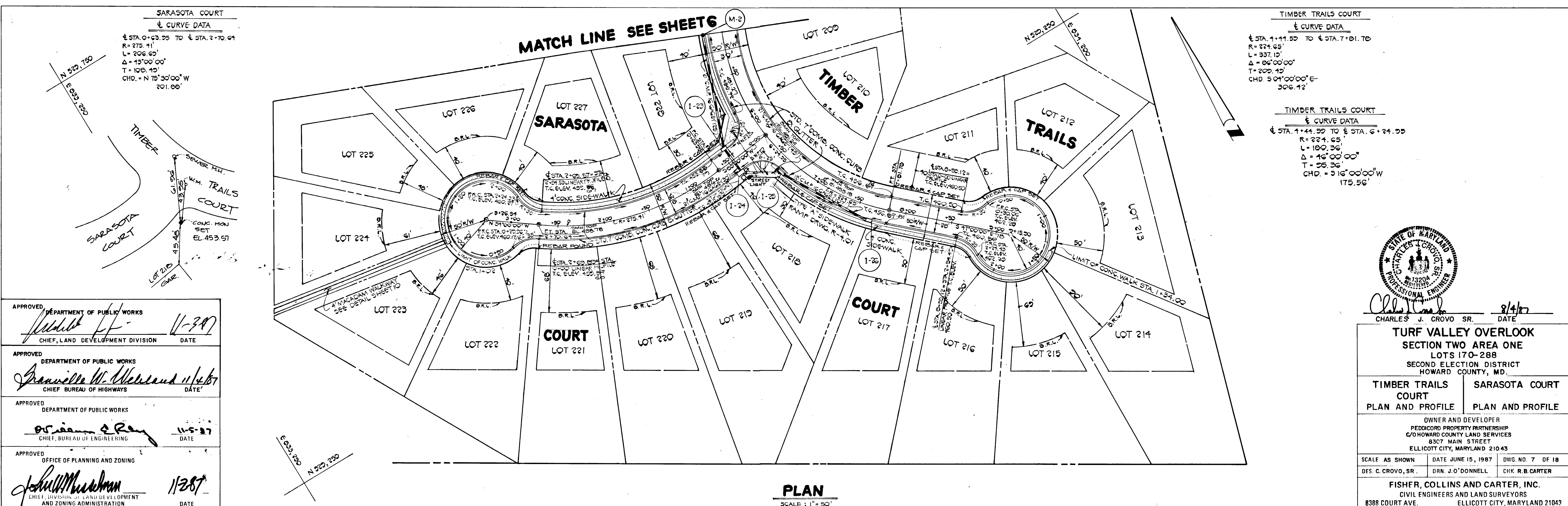
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APPROVED		DATE	
DEPARTMENT OF PUBLIC WORKS			
CHIEF, BUREAU OF HIGHWAYS			
APPROVED		DATE	
DEPARTMENT OF PUBLIC WORKS			
CHIEF, BUREAU OF ENGINEERING			
APPROVED		DATE	
OFFICE OF PLANNING AND ZONING			
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION			

DATE	
BY	
SURVEYED	
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STRUCTURE NOTATIONS CHKD	

DATE	
BY	
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PLOTTED	
NOTE BOOK	
NO.	
STRUCTURE NOTATIONS CHKD	



CHARLES J. CROVO SR. DATE 8/4/87

TURF VALLEY OVERLOOK
SECTION TWO AREA ONE
LOTS 170-288
SECOND ELECTION DISTRICT
HOWARD COUNTY, MD.

TIMBER TRAILS COURT PLAN AND PROFILE
SARASOTA COURT PLAN AND PROFILE

OWNER AND DEVELOPER
PEDICORD PROPERTY PARTNERSHIP
C/O HOWARD COUNTY LAND SERVICES
8307 MAIN STREET
ELLCOTT CITY, MARYLAND 21043

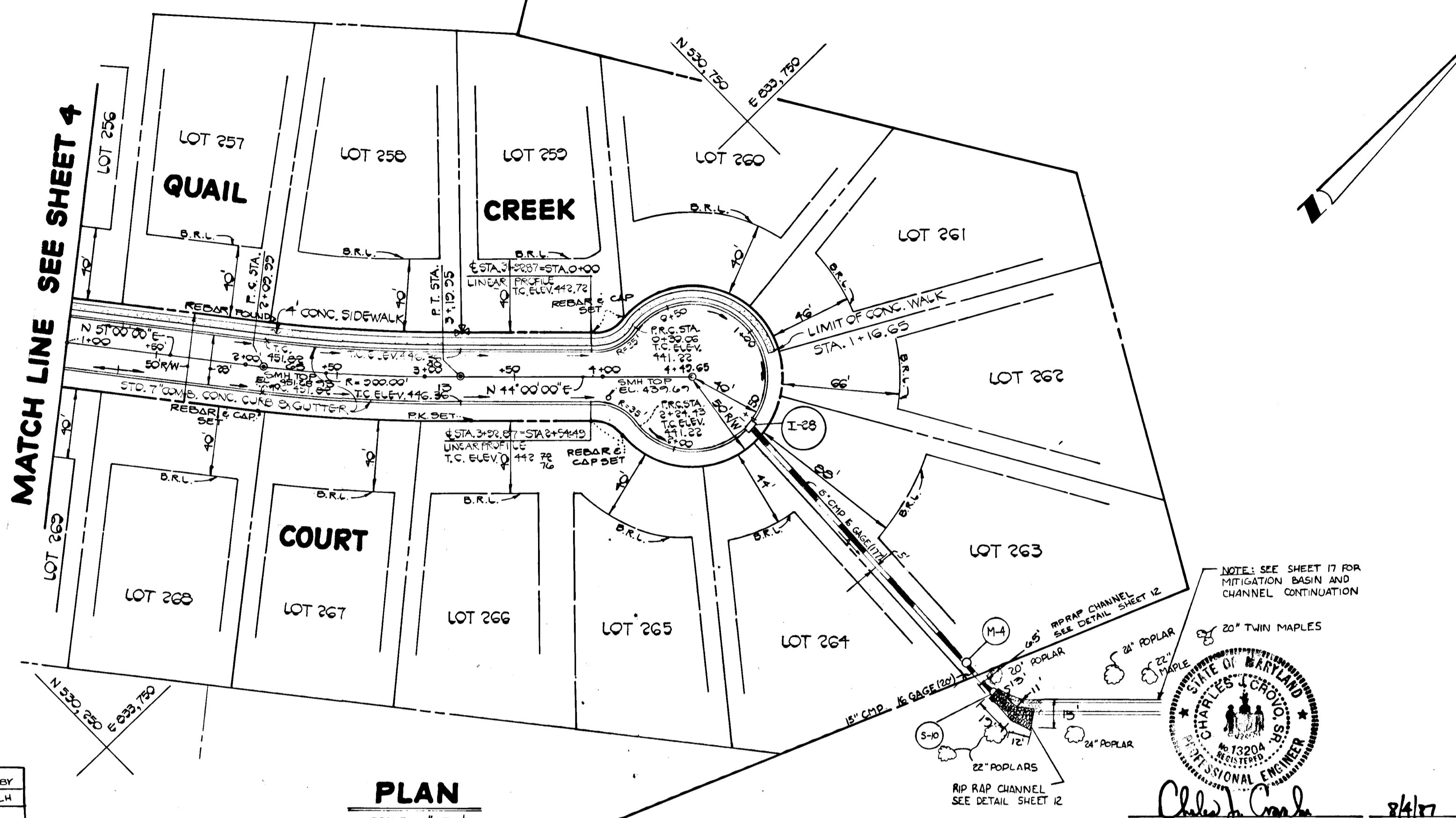
SCALE AS SHOWN DATE JUNE 15, 1987 DWG. NO. 7 OF 18
DES. C. CROVO, SR. DRN. J. O'DONNELL CHK. R. B. CARTER

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

265

QUAIL CREEK COURT
 & CURVE DATA
 & STA. 2+00.00 TO & STA. 3+10.00
 R = 200.00'
 L = 100.00'
 Δ = 07°00'00"
 T = 55.05'
 CHD. = N 17°30'00" E
 102.80'

N 530.720
 E 633.720



PLAN
 SCALE: 1" = 50'

TURF VALLEY OVERLOOK
 SECTION TWO AREA ONE
 LOTS 170-288
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MD.

QUAIL CREEK COURT
 PLAN AND PROFILE

OWNER AND DEVELOPER
 PEDICORD PROPERTY PARTNERSHIP
 C/O HOWARD COUNTY LAND SERVICES
 8307 MAIN STREET
 ELLICOTT CITY, MARYLAND 21043

SCALE AS SHOWN DATE JUNE 15, 1987 DWG. NO. 6 OF 18
 DES. C. CROVO, SR. DRN. J. O'DONNELL CHK. R. B. CARTER

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

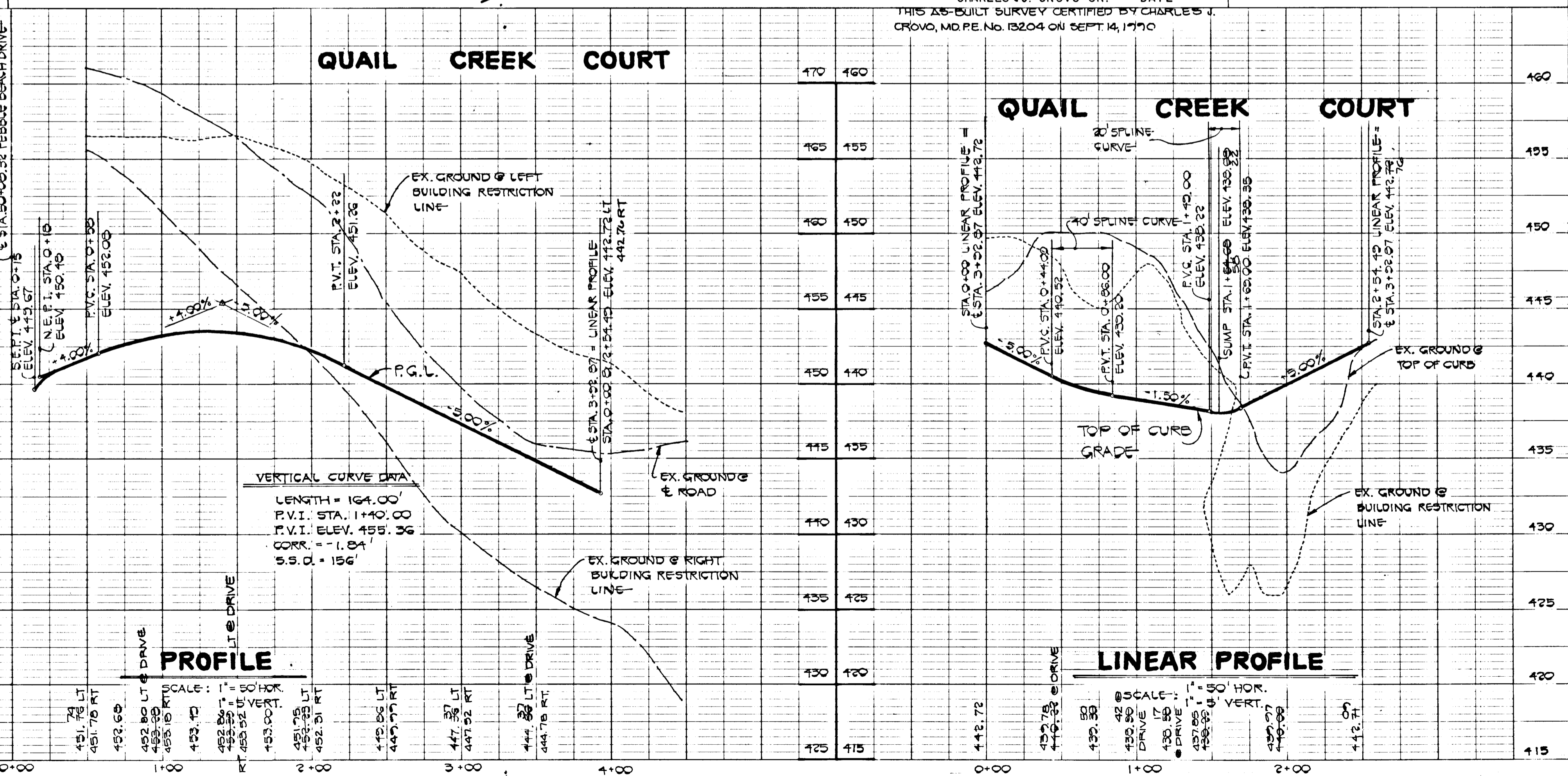
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[Signature] 11/25/87
 CHIEF, LAND DEVELOPMENT DIVISION DATE

APPROVED DEPARTMENT OF PUBLIC WORKS
[Signature] 11/25/87
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED DEPARTMENT OF PUBLIC WORKS
[Signature] 11/25/87
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED OFFICE OF PLANNING AND ZONING
[Signature] 11/25/87
 AND ZONING ADMINISTRATION DATE

DATE	DESCRIPTION	BY	DATE	DESCRIPTION	BY
9/9/80	changed Storm Pipes	WCB	10/30/81		DLH
10/18/81		SFH			



PLAN
 SURVEYED
 ALIGNMENT CHECKED
 RT. OF WAY CHECKED

PROFILE
 SURVEYED
 GRADES CHECKED
 RT. OF WAY CHECKED
 STRUCTURE NOTATIONS CHECKED

265

DATE: _____ BY: _____
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 NOTE BOOK: _____
 NO. _____
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 RT. OF WAY CHECKED: _____

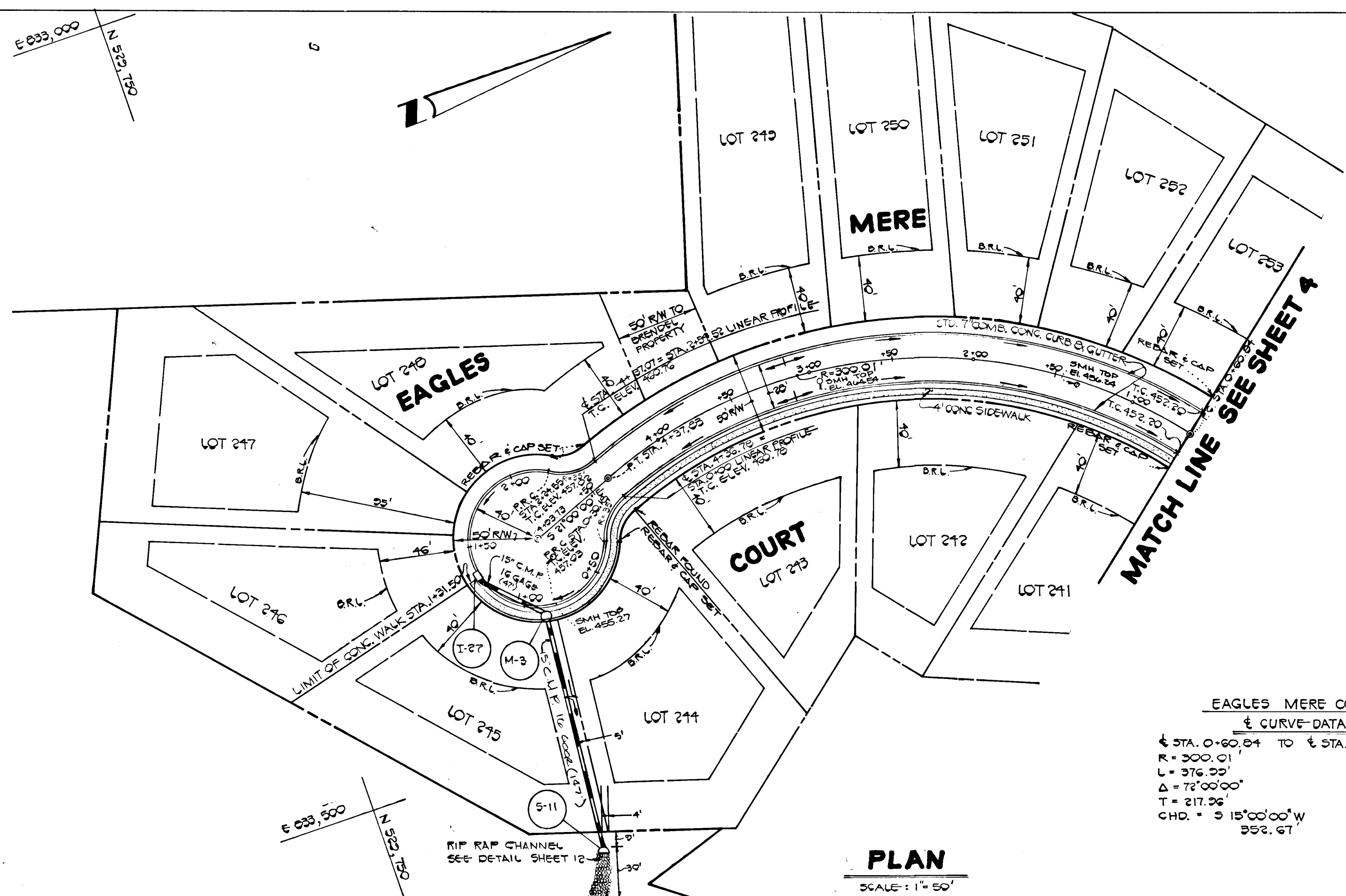
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 GRADES CHECKED: _____
 STRUCTURE NOTATIONS CHECKED: _____

APPROVED DEPARTMENT OF PUBLIC WORKS
Michael H. ... 11-28-87
 CHIEF, LAND DEVELOPMENT DIVISION DATE 1/

APPROVED DEPARTMENT OF PUBLIC WORKS
James W. ... 11-28-87
 CHIEF, BUREAU OF HIGHWAYS DATE 1/

APPROVED DEPARTMENT OF PUBLIC WORKS
... 11-28-87
 CHIEF, BUREAU OF ENGINEERING DATE 1/

APPROVED OFFICE OF PLANNING AND ZONING
John W. ... 11-28-87
 CHIEF, BUREAU OF PLANNING AND ZONING ADMINISTRATION DATE 1/



TURF VALLEY OVERLOOK
 SECTION TWO AREA ONE
 LOTS 170-288
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MD.

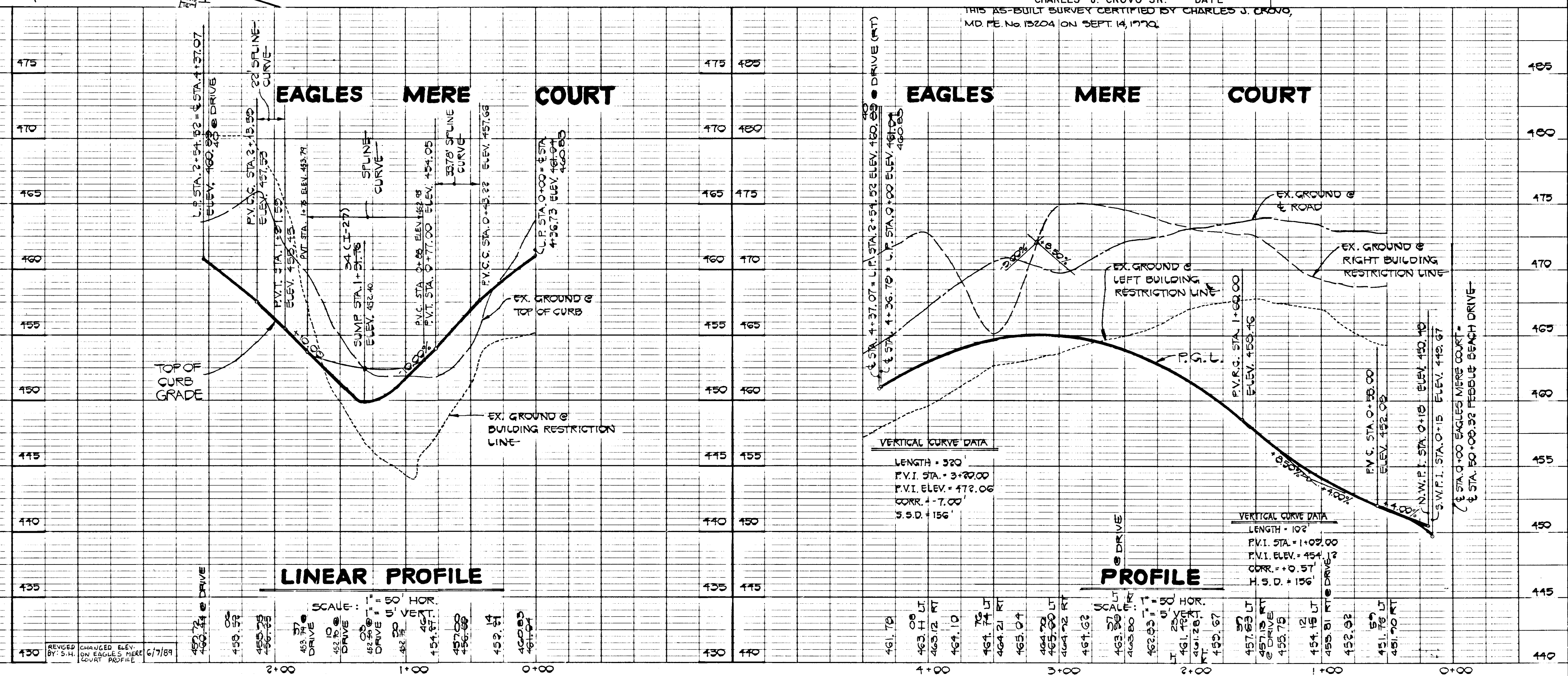
EAGLES MERE COURT
 PLAN AND PROFILE

OWNER AND DEVELOPER
 PEDICORD PROPERTY PARTNERSHIP
 C/O HOWARD COUNTY LAND SERVICES
 8307 MAIN STREET
 ELLICOTT CITY, MARYLAND 21043

SCALE AS SHOWN DATE JUNE 15, 1987 DWG. NO. 9 OF 18
 DES. C. CROVO, SR. DRN. J. O'DONNELL CHK. R.B. CARTER

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

CHARLES J. CROVO SR. 8/4/87
 DATE

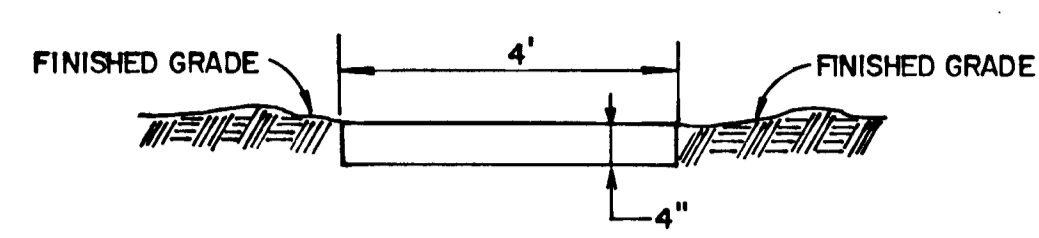


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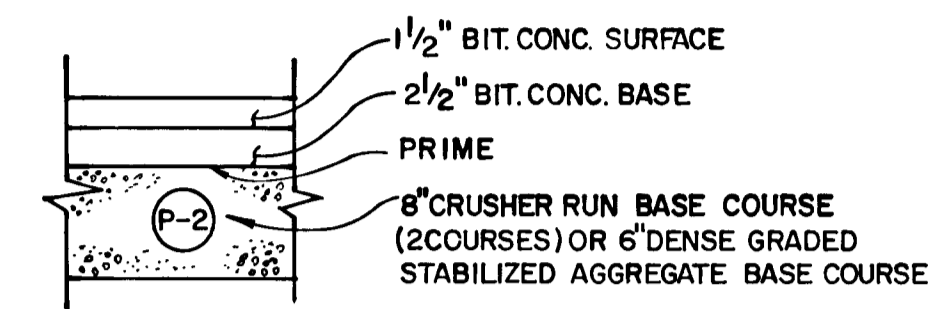
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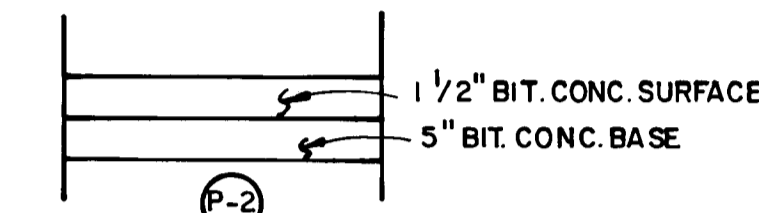
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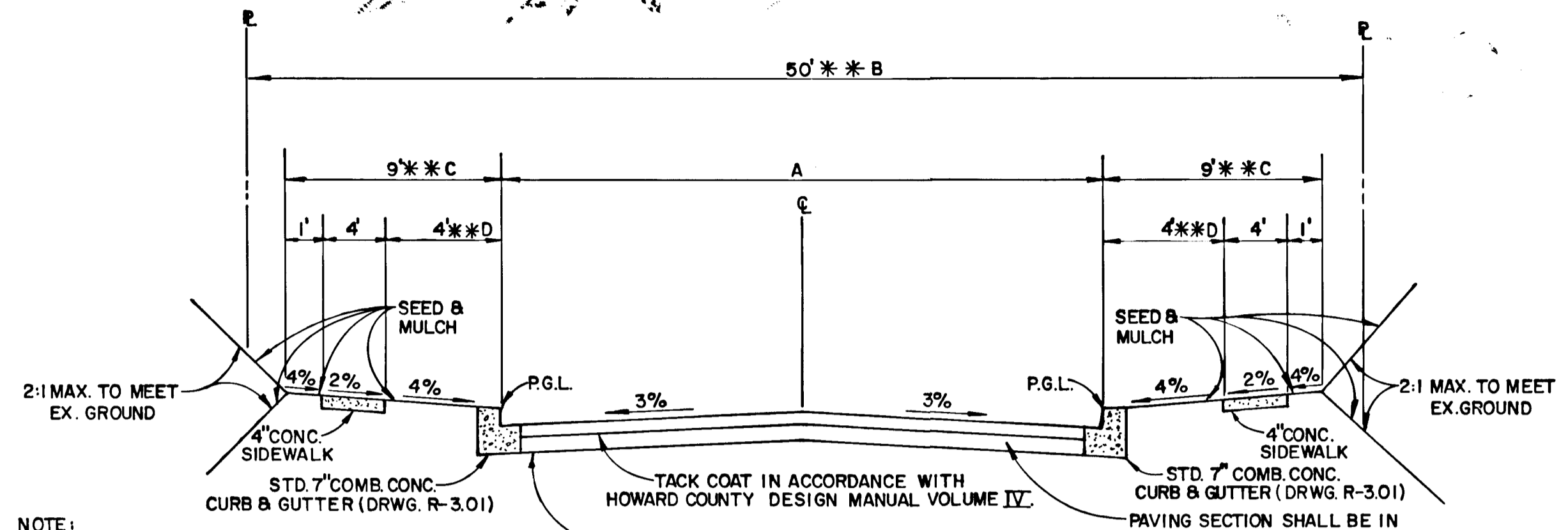
MACADAM WALKWAY DETAIL
NO SCALE



PAVING SECTION P-2
NO SCALE



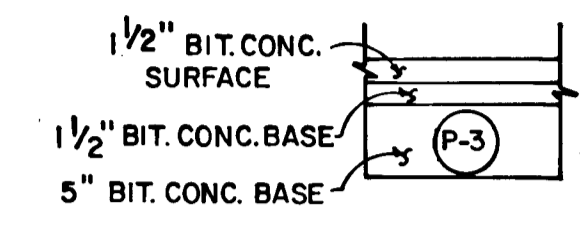
PAVING SECTION P-2
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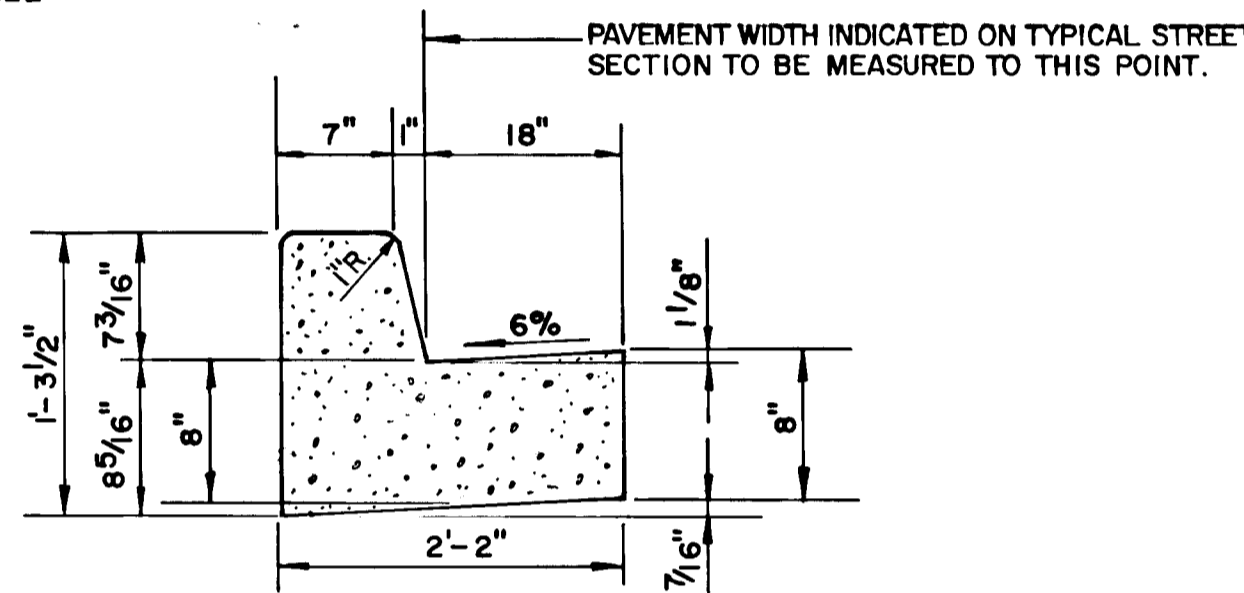
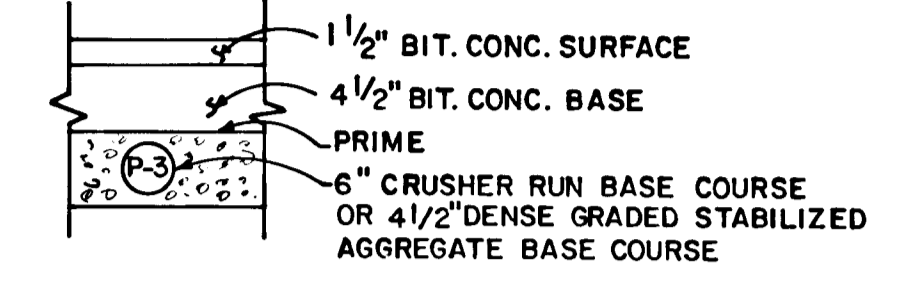
TYPICAL ROADWAY SECTION
NO SCALE

NOTE: ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL - VOLUME IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
TACK COAT IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV.
BASE WILL BE PRIMED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV.
PAVING SECTION SHALL BE IN ACCORDANCE WITH SECTION NUMBER P-2 DRWG. R-2.01 *

*-NOTE: PAVING SECTION NUMBER P-3 SHALL BE USED ON PEBBLE BEACH DRIVE, STATION LIMITS 50+08.32 TO 51+18
**-NOTE: BETWEEN STATIONS 50+08.32 TO 51+18 ALONG PEBBLE BEACH DRIVE B=60', C=12', D=7'.



PAVING SECTION P-3
NO SCALE



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

ROAD NAME	CLASSIFICATION	DESIGN SPEED	ZONING	A	STATION LIMITS
PEBBLE BEACH DRIVE	LOCAL	30	R-20	30'	27+32.29 TO 50+08.32
PEBBLE BEACH DRIVE	MINOR COLLECTOR	35	R-20	36'	50+08.32 TO 51+18
THE CONCORD COURT	CULDESAC	25	R-20	28'	0+00 TO 5+07.52
FOX FIRE COURT	CULDESAC	25	R-20	24'	0+00 TO 1+64.12
CYPRESS BAY COURT	CULDESAC	25	R-20	24'	0+00 TO 2+01.55
TIMBER TRAILS COURT	LOCAL	30	R-20	30'	0+00 TO 6+24.95
TIMBER TRAILS COURT	CULDESAC	30	R-20	28'	6+24.95 TO 8+59.12
RIVER FALLS COURT	CULDESAC	25	R-20	24'	0+00 TO 1+34.55
PINE NEEDLE DRIVE	CULDESAC	25	R-20	24'	0+00 TO 1+20.55
SARASOTA COURT	CULDESAC	25	R-20	28'	0+00 TO 2+69.89
QUAIL CREEK COURT	CULDESAC	25	R-20	28'	0+00 TO 3+92.87
EAGLES MERE COURT	CULDESAC	25	R-20	28'	0+00 TO 4+37.07

APPROVED DEPARTMENT OF PUBLIC WORKS
[Signature] 11-28-87
CHIEF, LAND DEVELOPMENT DIVISION DATE

APPROVED DEPARTMENT OF PUBLIC WORKS
[Signature] 11/4/87
CHIEF, BUREAU OF HIGHWAYS DATE

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APPROVED OFFICE OF PLANNING AND ZONING
[Signature] 11-28-87
CHIEF, BUREAU OF PLANNING AND ZONING ADMINISTRATION DATE

STATE OF MARYLAND
PROFESSIONAL ENGINEER
13204
REGISTERED
[Signature]
CHARLES J. CROVO SR. DATE 11/17

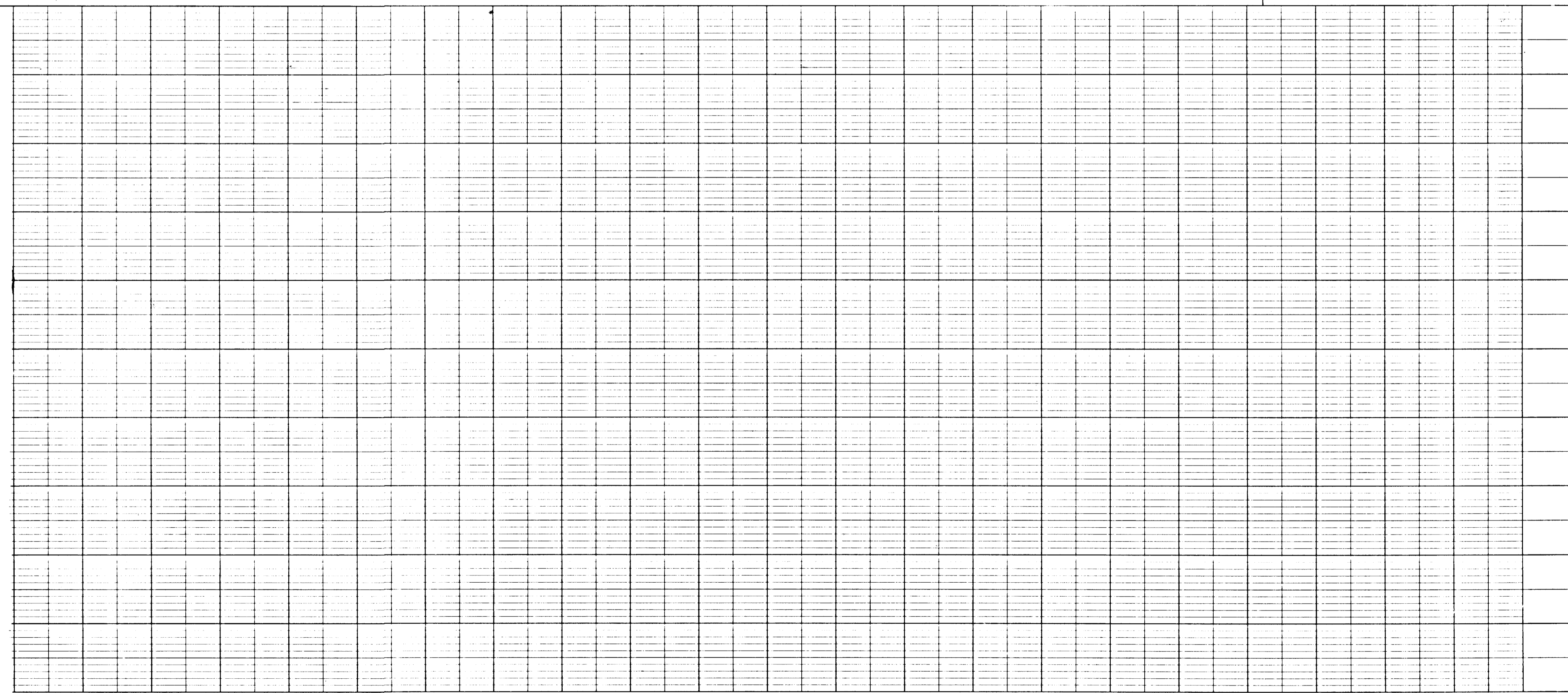
TURF VALLEY OVERLOOK
SECTION TWO AREA ONE
LOTS 170-288
SECOND ELECTION DISTRICT
HOWARD COUNTY, MD.

TYPICAL ROADWAY SECTION AND DETAILS

OWNER AND DEVELOPER
PELICORP PROPERTY PARTNERSHIP
C/O HOWARD COUNTY LAND SERVICES
8307 MAIN STREET
ELLCOTT CITY, MARYLAND 21043

SCALE AS SHOWN DATE JUNE 15, 1987 DWG. NO. 10 OF 18
DES. C. CROVO, SR. DRN. S. BOOTH CHK. R.B. CARTER

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



265

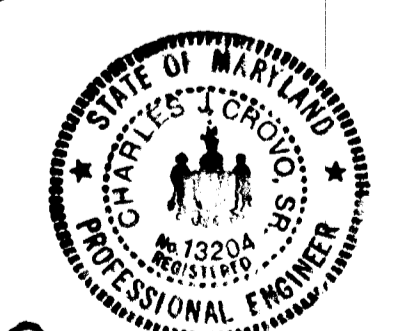
APPROVED
DEPARTMENT OF PUBLIC WORKS
Granville W. Wenzel 11/4/87
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
William J. Kelly 11-5-87
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
William J. Kelly 11-5-87
CHIEF, LAND DEVELOPMENT DIVISION DATE

APPROVED
OFFICE OF PLANNING AND ZONING
John W. Macchiarini 11-9-87
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

REVISIONS		
DATE	DESCRIPTION	BY
9/9/88	Changed Storm Drains & Drainage Areas	WJS
6/19/87		SEH
10/20/87	Add 15' D. N.W.	DLH



Charles J. Crovo 8/4/87
CHARLES J. CROVO SR. DATE
THIS AS-BUILT SURVEY CERTIFIED BY CHARLES J. CROVO,
MD PEN. 18204 ON SEPT. 14, 1990.

DRAINAGE AREA MAP
TURF VALLEY OVERLOOK
SECTION 2 AREA 1
LOTS 170-205

2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN SHEET 11 OF 16 JUNE 15, 1987

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
6360 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043
TELEPHONE: (301) 426-2055

OWNER & DEVELOPER:
PEDDIGORD PROPERTY PARTNERSHIP
CO HOWARD COUNTY LAND SERVICES
6907 MAIN STREET
ELLICOTT CITY, MARYLAND 21043

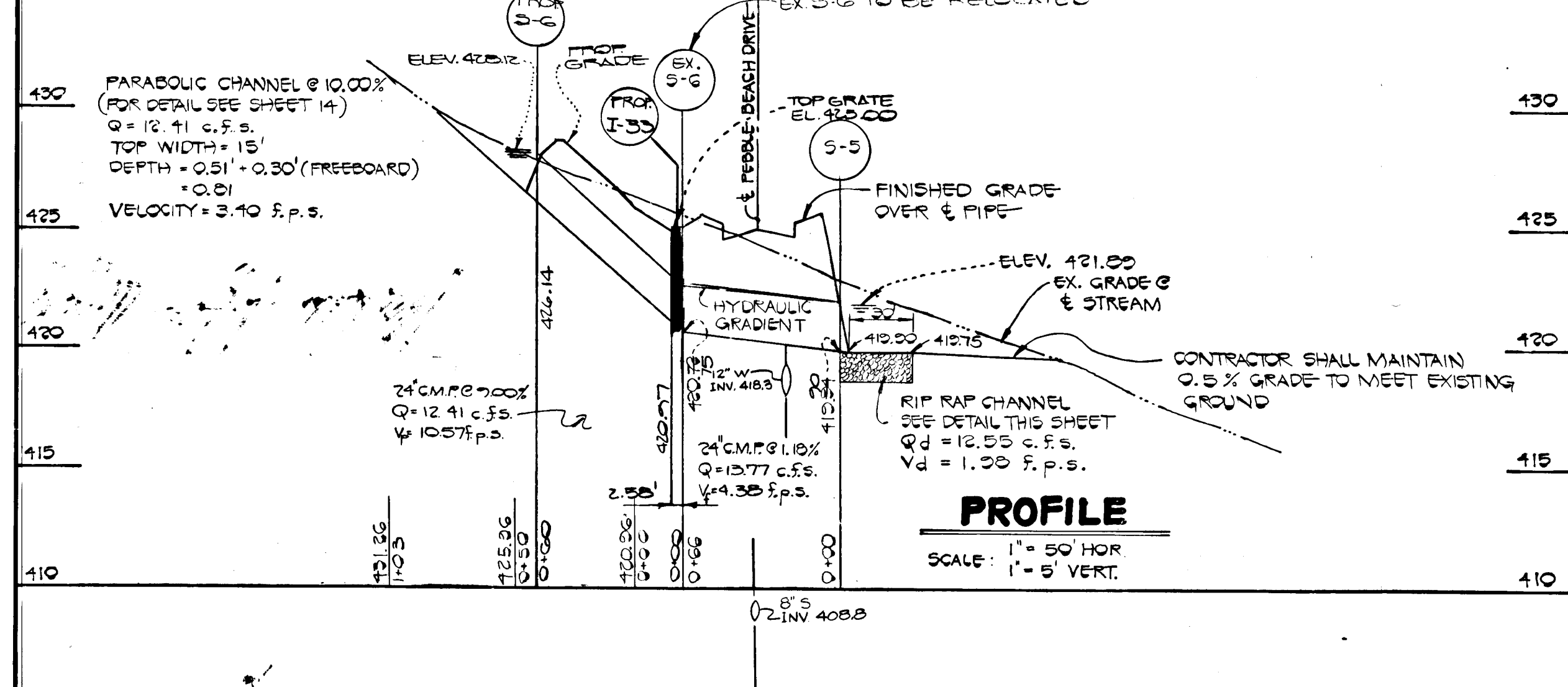
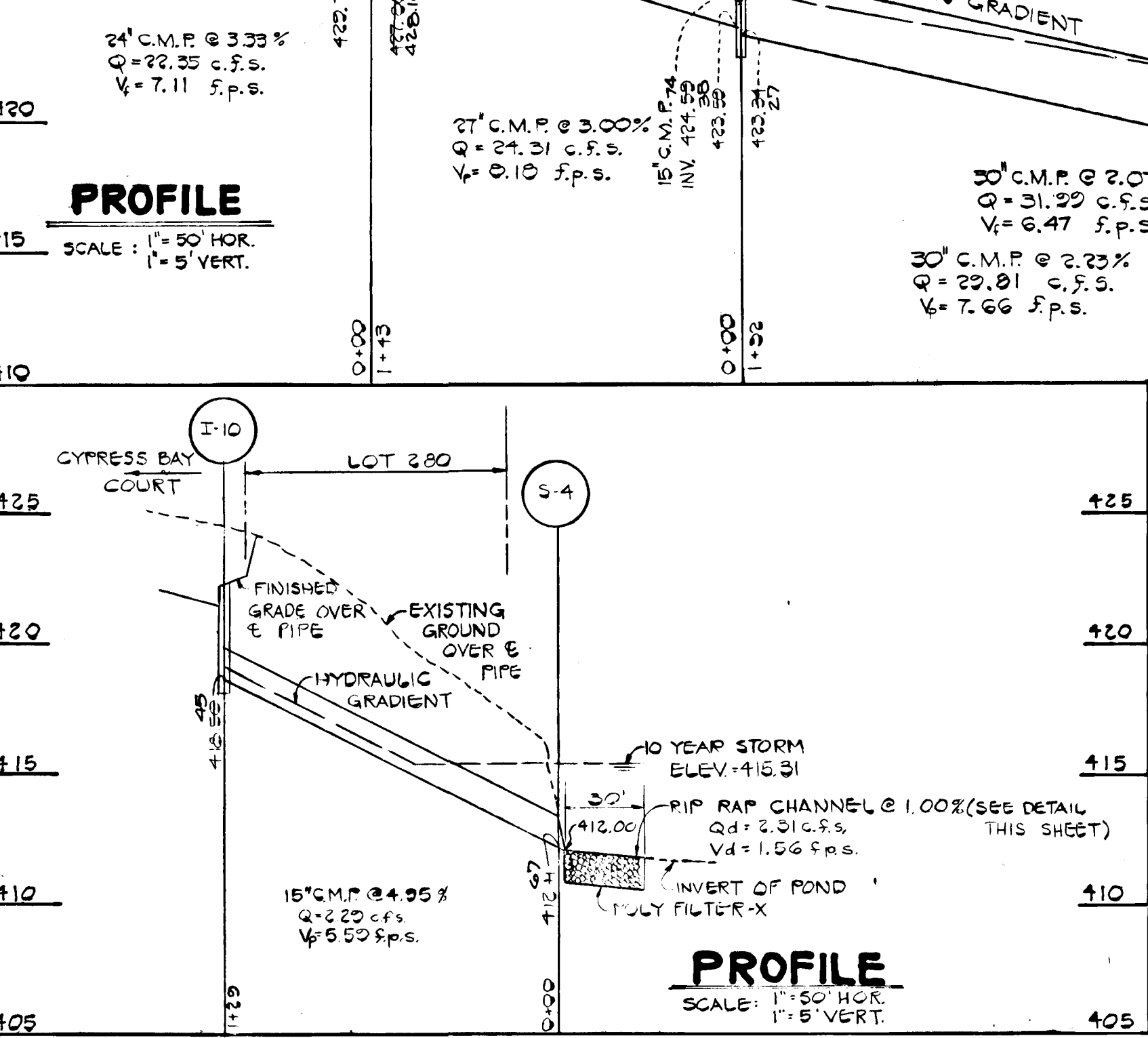
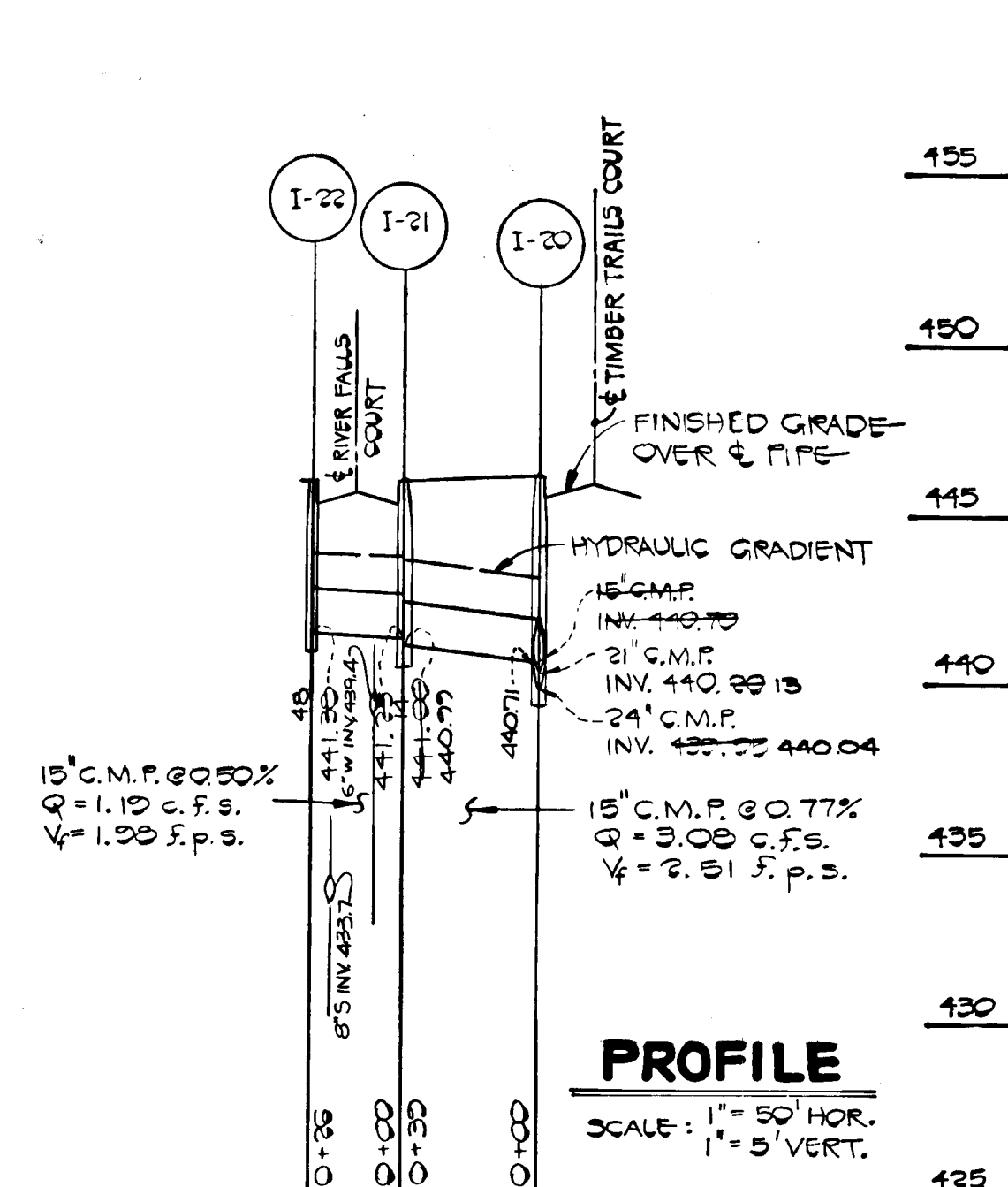
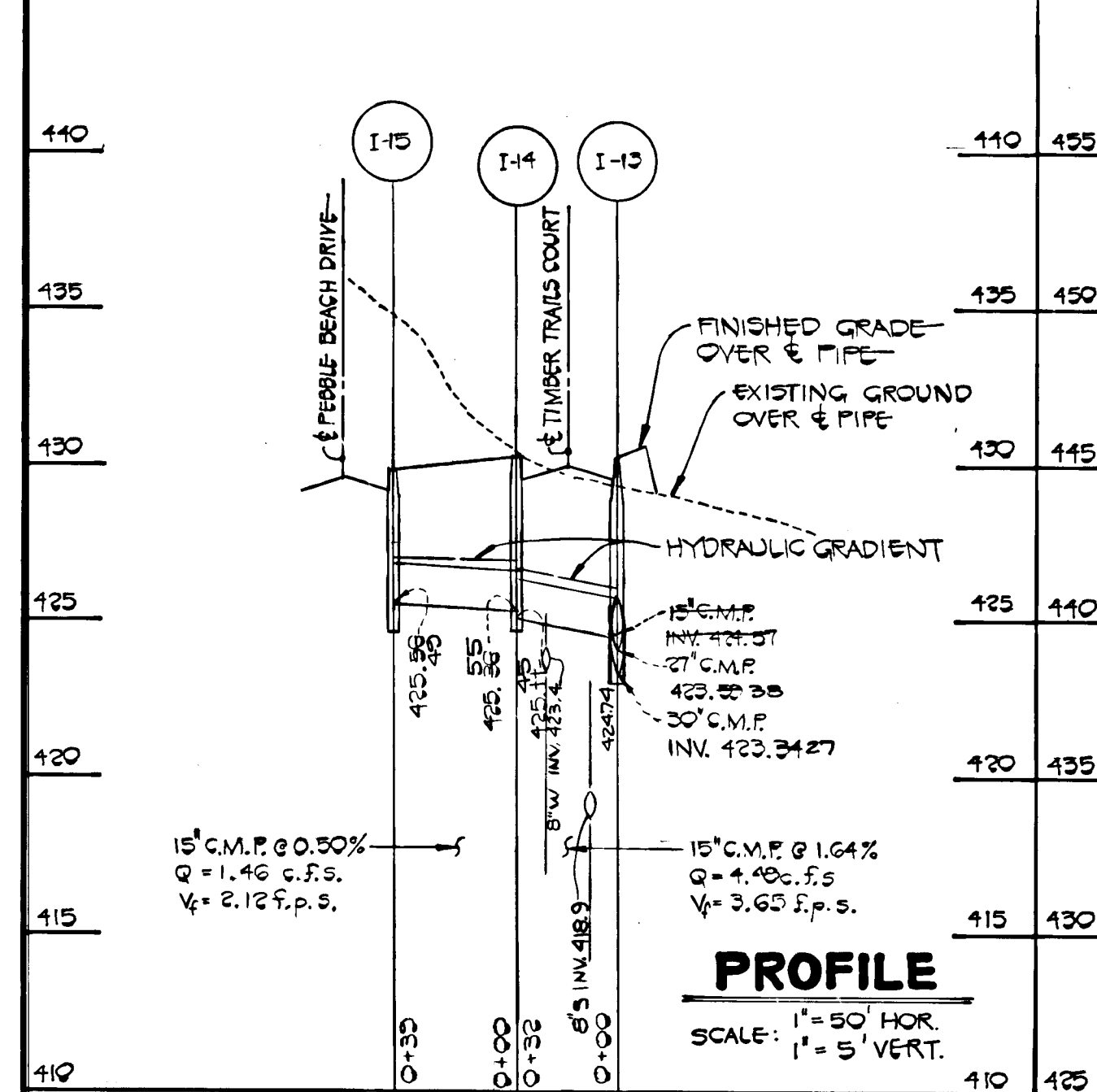
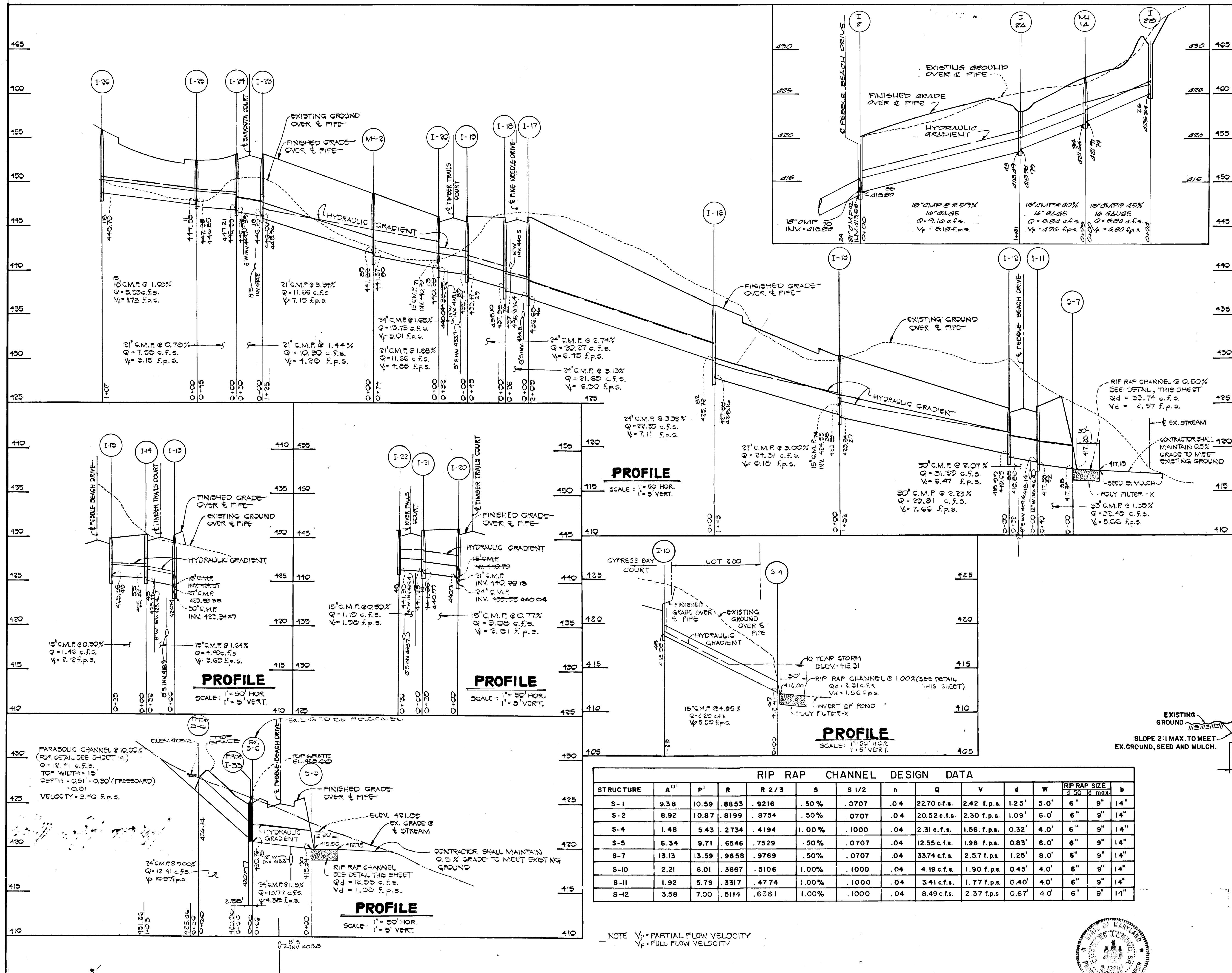
U.S. ROUTE 40
PLAN
SCALE: 1"=100'

APPROVED
DEPARTMENT OF PUBLIC WORKS
Charles J. Crovo 11-5-87
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED
OFFICE OF PLANNING AND ZONING
John W. MacMahon 11-2-87
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

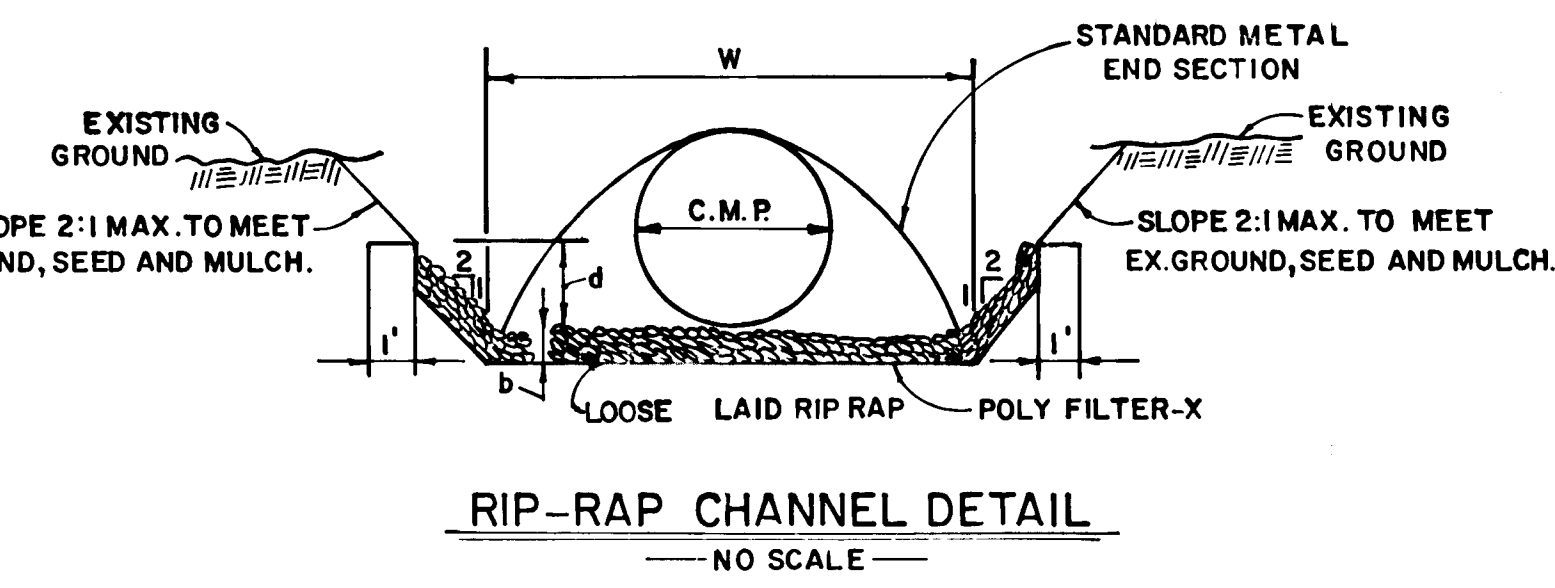
APPROVED
DEPARTMENT OF PUBLIC WORKS
Andrew M. Wolcott 11/4/87
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
Paul H. L... 11-3-87
CHIEF, LAND DEVELOPMENT DIVISION DATE



RIP RAP CHANNEL DESIGN DATA

STRUCTURE	A ²	P ³	R	R ^{2/3}	S	S ^{1/2}	n	Q	V	d	W	RIP RAP SIZE		b
												d ₅₀	d _{max}	
S-1	9.38	10.59	.8853	.9216	.50%	.0707	.04	22.70 c.f.s.	2.42 f.p.s.	1.25'	5.0'	6"	9"	14"
S-2	8.92	10.87	.8199	.8754	.50%	.0707	.04	20.52 c.f.s.	2.30 f.p.s.	1.09'	6.0'	6"	9"	14"
S-4	1.48	5.43	.2734	.4194	1.00%	.1000	.04	2.31 c.f.s.	1.56 f.p.s.	0.32'	4.0'	6"	9"	14"
S-5	6.34	9.71	.6546	.7529	.50%	.0707	.04	12.55 c.f.s.	1.98 f.p.s.	0.83'	6.0'	6"	9"	14"
S-7	13.13	13.59	.9658	.9769	.50%	.0707	.04	33.74 c.f.s.	2.57 f.p.s.	1.25'	8.0'	6"	9"	14"
S-10	2.21	6.01	.3667	.5106	1.00%	.1000	.04	4.19 c.f.s.	1.90 f.p.s.	0.45'	4.0'	6"	9"	14"
S-11	1.92	5.79	.3317	.4774	1.00%	.1000	.04	3.41 c.f.s.	1.77 f.p.s.	0.40'	4.0'	6"	9"	14"
S-12	3.58	7.00	.5114	.6381	1.00%	.1000	.04	8.49 c.f.s.	2.37 f.p.s.	0.67'	4.0'	6"	9"	14"



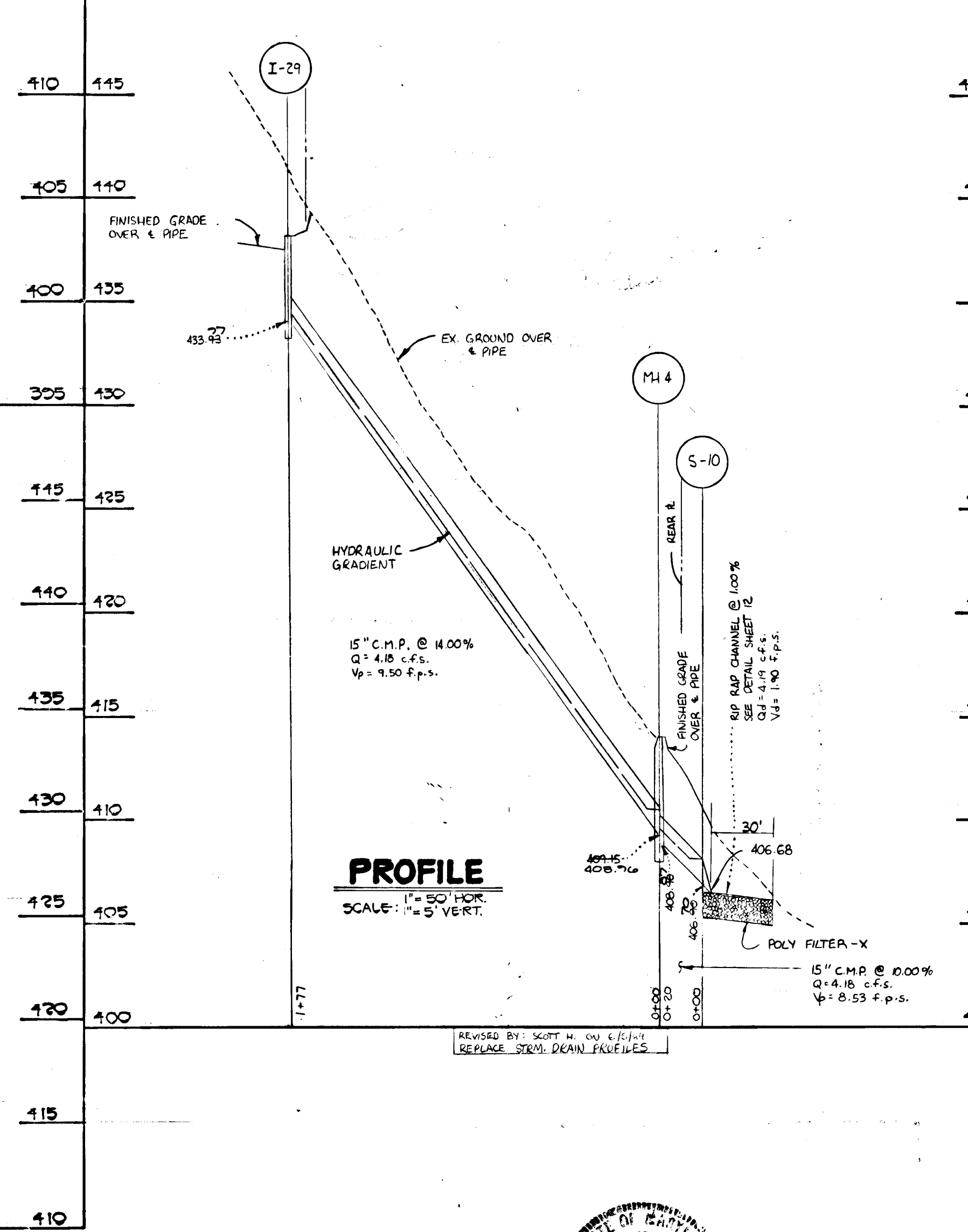
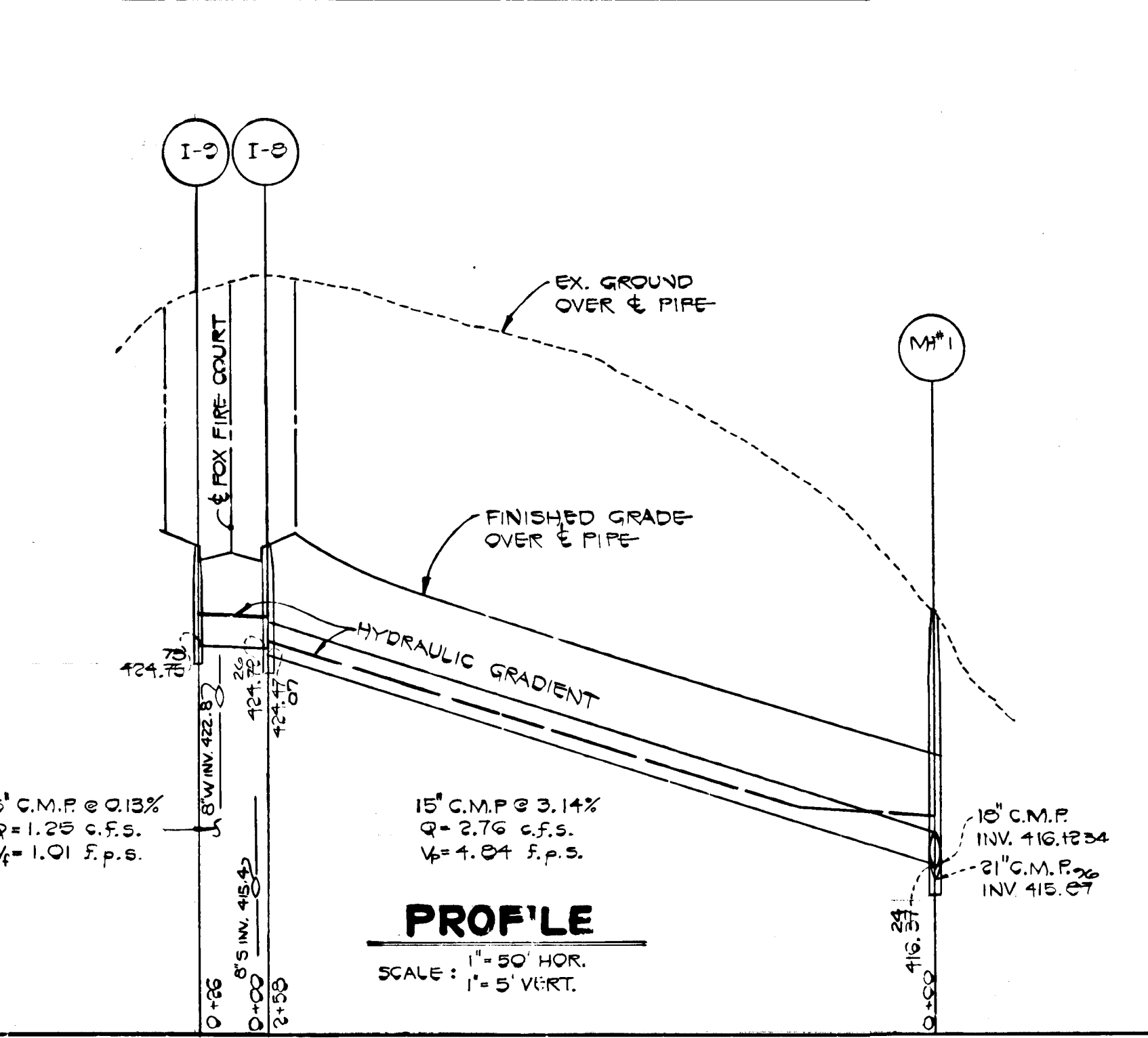
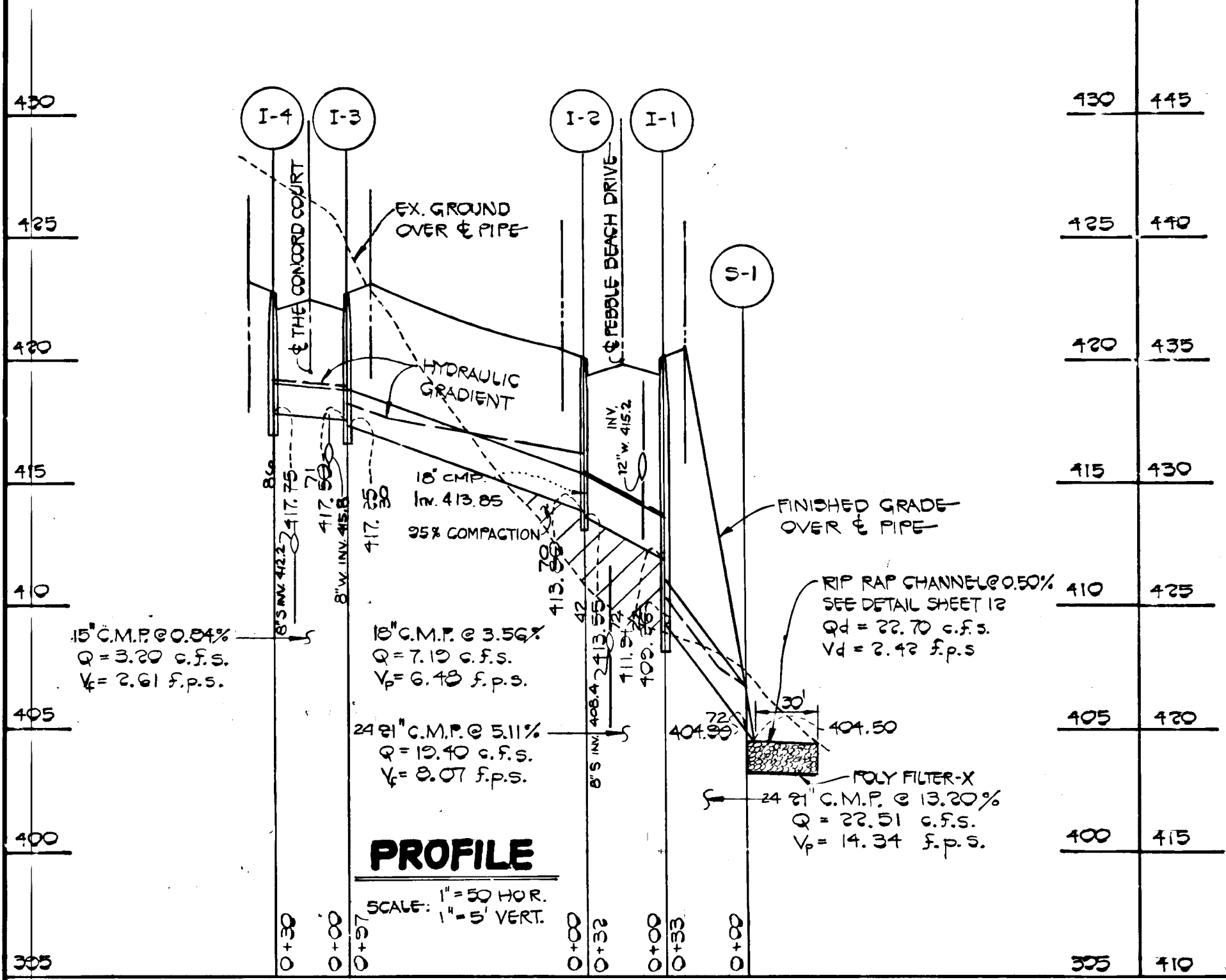
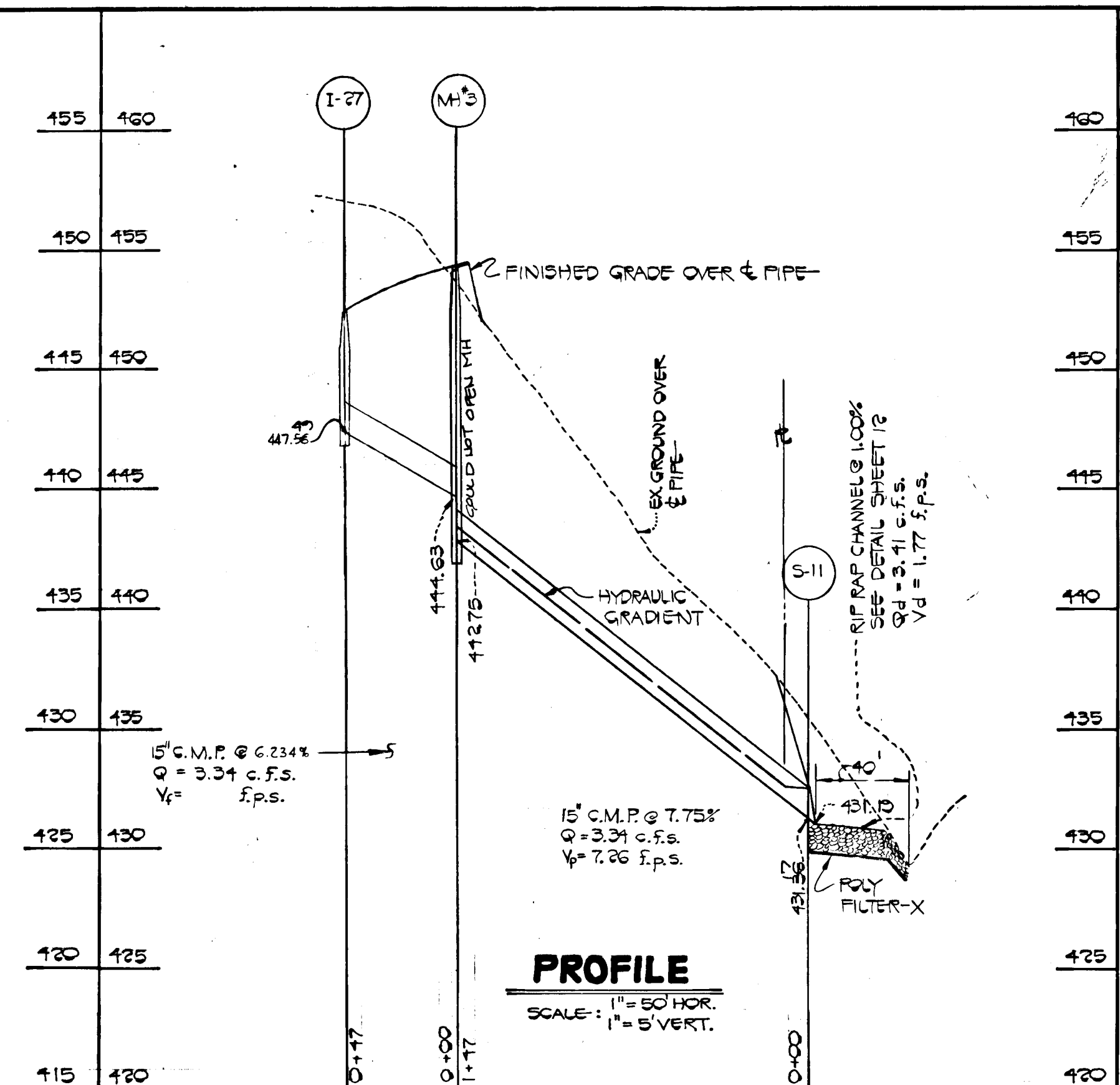
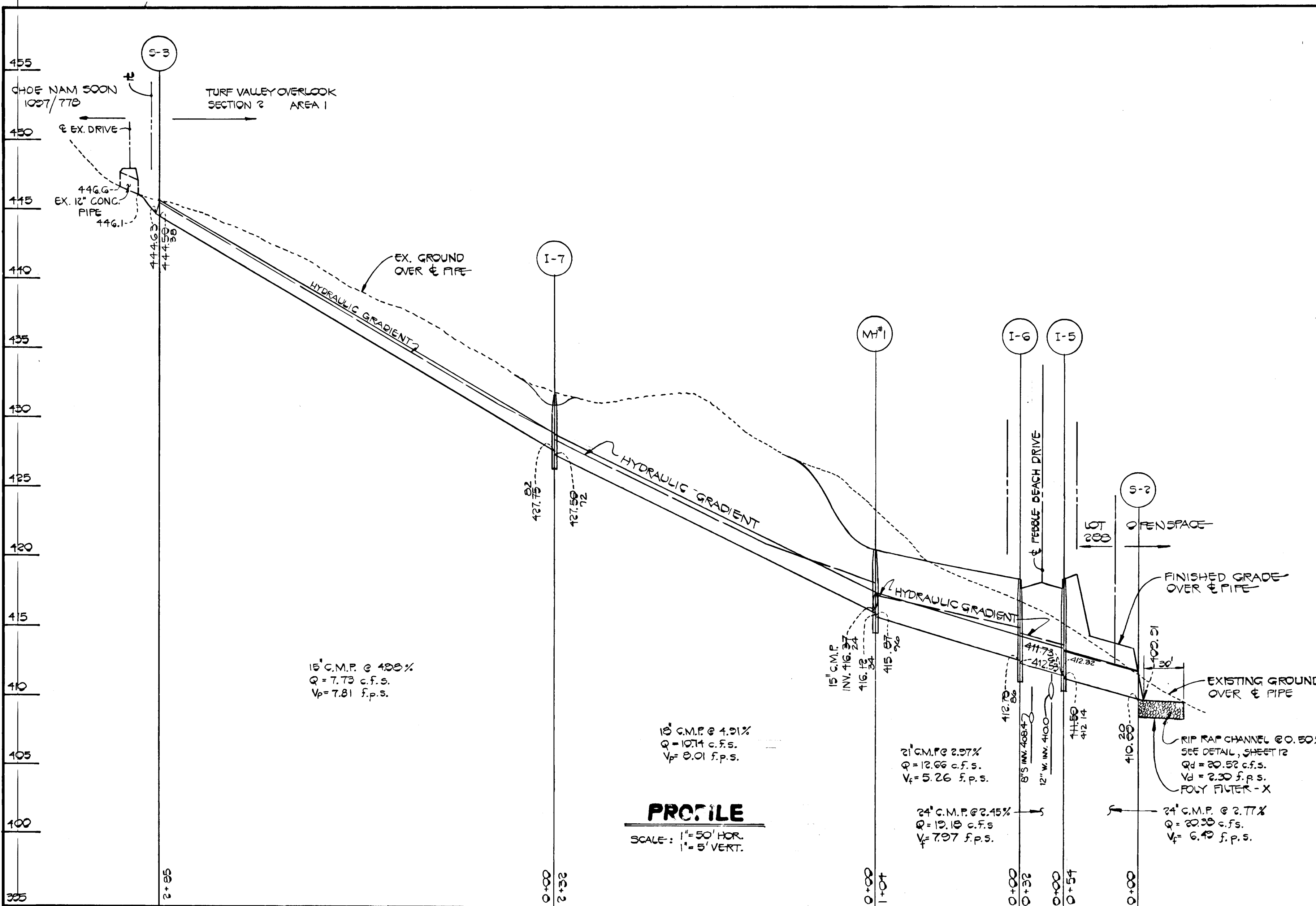
FISHER COLLINS & CARTER INC.
CIVIL ENGINEERS & LAND SURVEYORS
8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043

THIS AS-BUILT SURVEY CERTIFIED BY CHARLES J. CROVO,
MD P.E. No. 1204 ON SEPT 14, 1990

CHARLES J. CROVO SR.
8/4/87

OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
C/O HOWARD COUNTY LAND SERVICES
8307 MAIN STREET
ELLCOTT CITY, MARYLAND 21043

STORM DRAIN PROFILES
TURF VALLEY OVERLOOK
SECTION 2 AREA 1
LOTS 170-288
2ND. ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN SHEET 12 OF 18 JUNE 15, 1987



APPROVED	DEPARTMENT OF PUBLIC WORKS	DATE
<i>[Signature]</i>	CHIEF, BUREAU OF ENGINEERING	
APPROVED	OFFICE OF PLANNING AND ZONING	DATE
<i>[Signature]</i>	CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	11-2-97
APPROVED	DEPARTMENT OF PUBLIC WORKS	DATE
<i>[Signature]</i>	CHIEF, BUREAU OF HIGHWAYS	11-18-97
APPROVED	DEPARTMENT OF PUBLIC WORKS	DATE
<i>[Signature]</i>	CHIEF, LAND DEVELOPMENT DIVISION	11-3-97
REVISIONS		
DATE	DESCRIPTION	BY
7/9/98	Changed Storm Drain Profiles	WCB

OWNER AND DEVELOPER
 PEDDICORD PROPERTY PARTNERSHIP
 C/O HOWARD COUNTY LAND SERVICES
 8307 MAIN STREET
 ELLICOTT CITY, MARYLAND 21043

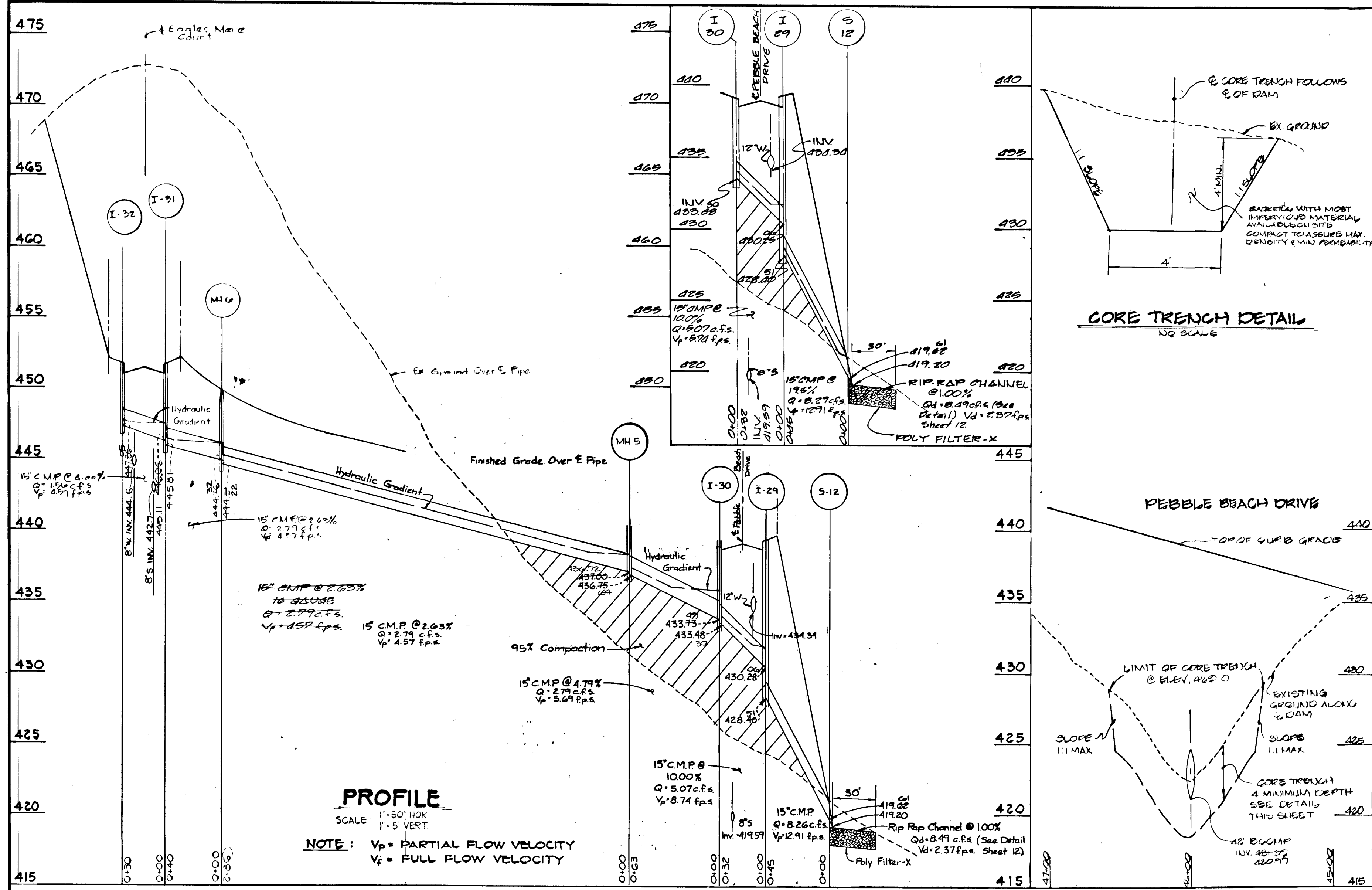
STORM DRAIN PROFILES
 TURF VALLEY OVERLOOK
 SECTION 2 AREA 1
 LOTS 170-288
 2ND. ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN SHEET 13 OF 18 JUNE 15, 1997

NOTE: V_p = PARTIAL FLOW VELOCITY
 V_f = FULL FLOW VELOCITY

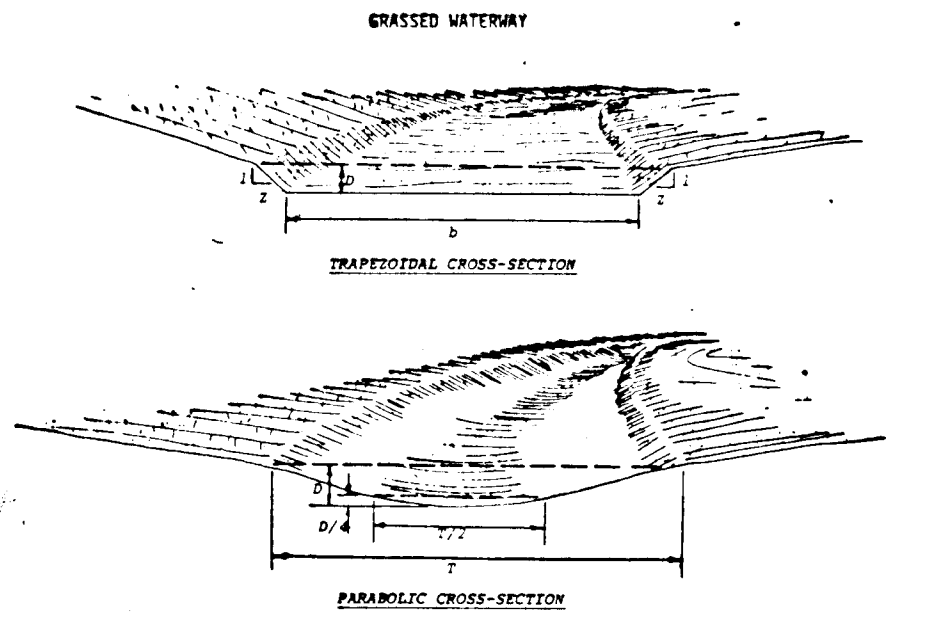
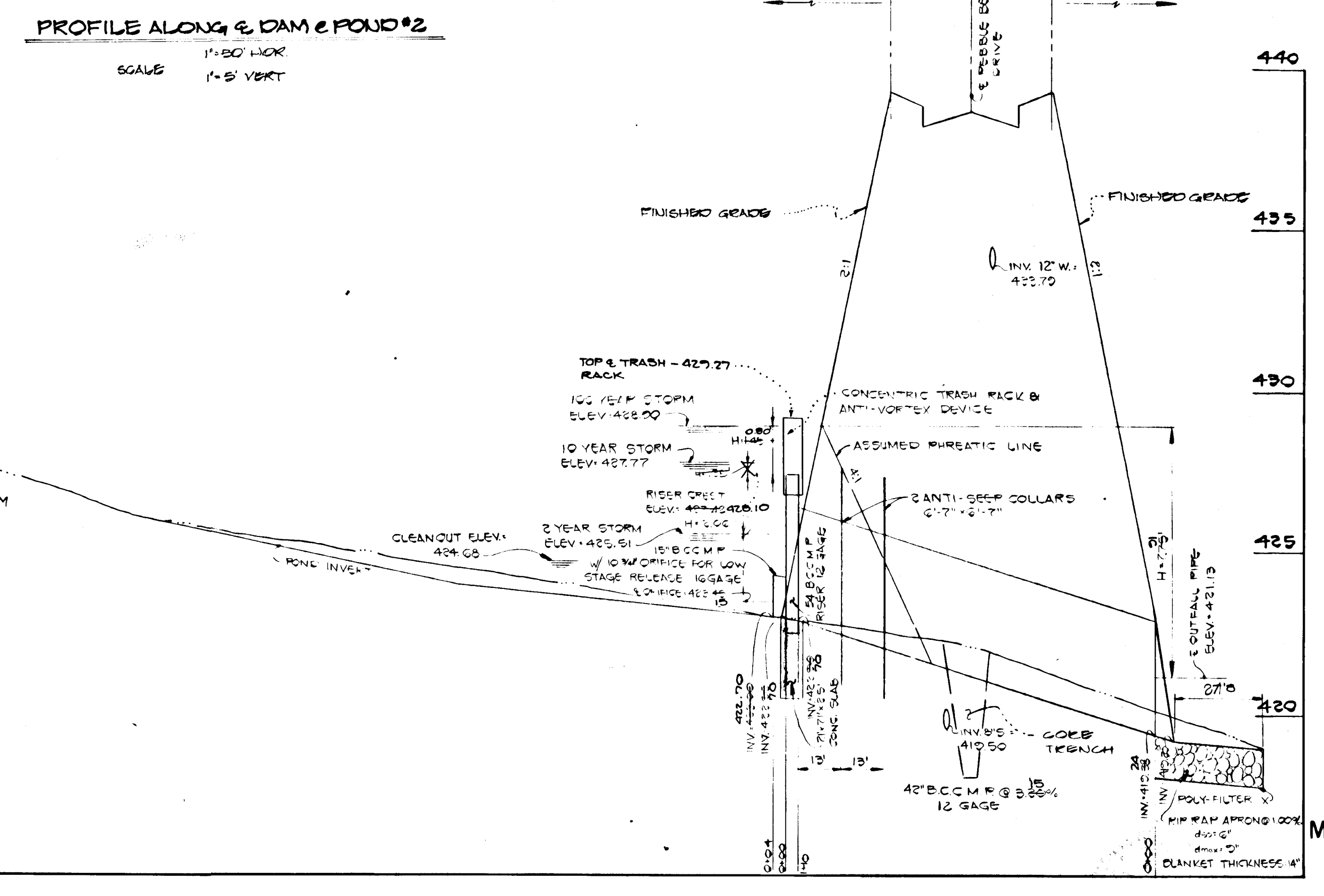
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043

THIS AS-BUILT SURVEY CERTIFIED BY CHARLES J. CROVO,
 MD. P.E. No. 18204 ON SEPT 14, 1998.

CHARLES J. CROVO SR.
 DATE 8/4/97



STRUCTURE SCHEDULE									
STRUCTURE	TYPE	INVERT ELEV.	VERT. DIST.	TOP ELEVATION	ROAD STATION	REMARKS			
1-1	A-5	411.70	419.22	420.00	30 + 48.00 PEBBLE BEACH DRIVE	S.D. 4.01			
1-2	A-10	410.15	419.05	420.00	0 + 48.00 PEBBLE BEACH DRIVE	S.D. 4.07			
1-3	A-10 W/ DEFLECTORS	412.74	413.74	420.00	0 + 45.50 THE CONCORD COURT	S.D. 4.02 & 4.81			
1-4	A-5 W/ DEFLECTORS	412.92	413.74	420.00	0 + 45.50 THE CONCORD COURT	S.D. 4.01 & 4.81			
1-5	A-5	412.92	413.74	420.00	34 + 35.00 PEBBLE BEACH DRIVE	S.D. 4.01			
1-6	A-10	412.92	413.74	420.00	34 + 35.00 PEBBLE BEACH DRIVE	S.D. 4.02			
1-7	10" INLET	427.20	427.20	431.00	-----	S.D. 4.11			
1-8	A-5 W/ DEFLECTORS	424.20	424.20	428.00	0 + 43.00 FOX FIRE COURT	S.D. 4.01 & 4.81			
1-9	A-5 W/ DEFLECTORS	424.20	424.20	428.00	0 + 43.00 FOX FIRE COURT	S.D. 4.01 & 4.81			
1-10	A-5	422.00	422.00	428.00	1.P. STA 0 + 93.40 EXPRESS BAY CT.	S.D. 4.01			
1-11	A-5	418.14	417.74	424.00	40 + 34.73 PEBBLE BEACH DRIVE	S.D. 4.01			
1-12	A-5	418.14	417.74	424.00	40 + 34.73 PEBBLE BEACH DRIVE	S.D. 4.01			
1-13	A-5 W/ DEFLECTORS	424.20	421.74	430.00	0 + 41.00 TIMBER TRAILS COURT	S.D. 4.01 & 4.81			
1-14	A-5 W/ DEFLECTORS	424.20	421.74	430.00	0 + 41.00 TIMBER TRAILS COURT	S.D. 4.01 & 4.81			
1-15	A-5 W/ DEFLECTORS	424.20	421.74	430.00	47 + 74.46 PEBBLE BEACH DRIVE	S.D. 4.01			
1-16	A-5 W/ DEFLECTORS	424.20	421.74	430.00	1.P. STA 0 + 93.40 EXPRESS BAY CT.	S.D. 4.01 & 4.81			
1-17	A-5 W/ DEFLECTORS	416.54	416.54	420.00	0 + 43.00 PINE NEEDLE COURT	S.D. 4.01 & 4.81			
1-18	A-5 W/ DEFLECTORS	416.54	416.54	420.00	0 + 43.00 PINE NEEDLE COURT	S.D. 4.01 & 4.81			
1-19	A-5 W/ DEFLECTORS	416.54	416.54	420.00	4 + 37.00 TIMBER TRAILS COURT	S.D. 4.01 & 4.81			
1-20	A-5 W/ DEFLECTORS	416.54	416.54	420.00	4 + 37.00 TIMBER TRAILS COURT	S.D. 4.01 & 4.81			
1-21	A-5 W/ DEFLECTORS	416.54	416.54	420.00	0 + 41.00 RIVER FALLS COURT	S.D. 4.01 & 4.81			
1-22	A-5 W/ DEFLECTORS	416.54	416.54	420.00	0 + 41.00 RIVER FALLS COURT	S.D. 4.01 & 4.81			
1-23	A-5 W/ DEFLECTORS	416.54	416.54	420.00	0 + 44.50 SARASOTA COURT	S.D. 4.01 & 4.81			
1-24	A-10 W/ DEFLECTORS	416.54	416.54	420.00	0 + 44.50 SARASOTA COURT	S.D. 4.02 & 4.81			
1-25	A-10	416.54	416.54	420.00	6 + 61.50 TIMBER TRAILS COURT	S.D. 4.02			
1-26	A-5 W/ DEFLECTORS	416.54	416.54	420.00	7 + 64.75 TIMBER TRAILS COURT	S.D. 4.01 & 4.81			
1-27	A-5	447.50	447.50	452.00	1.P. STA 3+31.76 EAGLES NERE CT.	S.D. 4.01			
1-28	A-5	413.00	413.00	420.00	1.P. STA 3+54.68 DUAL CREEK CT.	S.D. 4.01			
1-29	A-10	430.00	428.00	435.00	46 + 70.00 PEBBLE BEACH DRIVE	S.D. 4.02			
1-30	A-5 W/ DEFLECTORS	433.00	433.00	440.00	46 + 70.00 PEBBLE BEACH DRIVE	S.D. 4.01 & 4.81			
1-31	A-5 W/ DEFLECTORS	444.00	444.00	451.00	0 + 46.00 EAGLES NERE COURT	S.D. 4.01 & 4.81			
1-32	A-5 W/ DEFLECTORS	416.54	416.54	420.00	35 + 49.00 PEBBLE BEACH DRIVE	G. 5.01			
MH #1	STANDARD MANHOLE	441.00	441.00	448.00	5 + 06.00 TIMBER TRAILS COURT	G. 5.01			
MH #2	STANDARD MANHOLE	441.00	441.00	448.00	1.P. STA 0 + 87.00 EAGLES NERE CT.	G. 5.01			
MH #3	STANDARD MANHOLE	441.00	441.00	448.00	46 + 70.00 PEBBLE BEACH DRIVE	G. 5.01			
MH #4	STANDARD MANHOLE	441.00	441.00	448.00	46 + 70.00 PEBBLE BEACH DRIVE	G. 5.01			
MH #5	STANDARD MANHOLE	441.00	441.00	448.00	46 + 70.00 PEBBLE BEACH DRIVE	G. 5.01			
MH #6	STANDARD MANHOLE	441.00	441.00	448.00	46 + 70.00 PEBBLE BEACH DRIVE	G. 5.01			
S-1	EXP. METAL END SECT.	410.00	410.00	410.00	20'	S.D. 5.61			
S-2	EXP. METAL END SECT.	410.00	410.00	410.00	24'	S.D. 5.61			
S-3	EXP. METAL END SECT.	410.00	410.00	410.00	15'	S.D. 5.61			
S-4	EXP. METAL END SECT.	410.00	410.00	410.00	15'	S.D. 5.61			
S-5	EXP. METAL END SECT.	410.00	410.00	410.00	24'	S.D. 5.61			
S-6	EXP. METAL END SECT.	410.00	410.00	410.00	24'	S.D. 5.61			
S-7	EXP. METAL END SECT.	410.00	410.00	410.00	33'	S.D. 5.61			
S-8	EXP. METAL END SECT.	410.00	410.00	410.00	15'	S.D. 5.61			
S-9	EXP. METAL END SECT.	410.00	410.00	410.00	15'	S.D. 5.61			
S-10	EXP. METAL END SECT.	410.00	410.00	410.00	15'	S.D. 5.61			
S-11	EXP. METAL END SECT.	410.00	410.00	410.00	15'	S.D. 5.61			
S-12	EXP. METAL END SECT.	410.00	410.00	410.00	15'	S.D. 5.61			
I-30	10" INLET	420.77	420.77	425.00	-----	S.D. 4.11			
MH IA	STANDARD MANHOLE	421.74	421.74	427.00	-----	S.D. 4.11			
MH IB	10" INLET	418.74	418.74	425.00	-----	S.D. 4.11			
I-29	10" INLET	418.74	418.74	425.00	-----	S.D. 4.11			



- Construction Specifications**
- All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the waterway.
 - The waterway shall be excavated or cleared to line grade, and cross section as required to meet the criteria specified herein, and be free of bank projections or other irregularities which will impede normal flow.
 - Fill shall be compacted as needed to prevent unequal settlement that would cause damage to the complete waterway.
 - All earth removed and not needed in construction shall be spread or disposed of so that it will not interfere with the functioning of the waterway.
 - Stabilization shall be done according to the appropriate Standard and Specifications for Vegetative Practices.
 - For design velocities of less than 3.3 ft. per sec., seeding and mulching may be used for the establishment of the vegetation. It is recommended that, when conditions permit, temporary diversion or other means should be used to prevent water from entering the waterway during the establishment of the vegetation.
 - For design velocities of more than 3.3 ft. per sec., the waterway shall be established with sod, with seeding protected by jute or excelsior matting or with seeding and mulching including temporary diversion of the water until the vegetation is established.
 - Structural - Vegetative Protection
 - Subsurface drain for base flow shall be constructed as shown on the Standard Drawing and as specified in the Standard and Specifications for Subsurface Drain.

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043
TELEPHONE: (301) 461-2855

STORM WATER MANAGEMENT POND #2 - PROFILE

SCALE: 1" = 30' HOR.
1" = 3' VERT.

THIS AS-BUILT SURVEY CERTIFIED BY
CHARLES J. CROVO, MD. PE No. 15204
ON SEPT. 14, 1990.

APPROVED
DEPARTMENT OF PUBLIC WORKS
[Signature]
CHIEF, BUREAU OF ENGINEERING
DATE: 11/8/87

APPROVED
OFFICE OF PLANNING AND ZONING
[Signature]
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
DATE: 11/28/87

STORM WATER MANAGEMENT POND CERTIFICATION AND APPROVAL

DEVELOPER'S CERTIFICATE

"I HEREBY 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."

[Signature]
DEVELOPER
DATE: 5/4/87

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 AN AS-BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

[Signature]
DATE: 5/4/87

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.

[Signature]
U.S. SOIL CONSERVATION SERVICE
DATE: 10/29/87

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

[Signature]
HOWARD SOIL CONSERVATION DISTRICT
DATE: 10/29/87

APPROVED
DEPARTMENT OF PUBLIC WORKS
[Signature]
CHIEF, BUREAU OF HIGHWAYS
DATE: 11/4/87

APPROVED
DEPARTMENT OF PUBLIC WORKS
[Signature]
CHIEF, LAND DEVELOPMENT DIVISION
DATE: 11/4/87

REVISIONS		
DATE	DESCRIPTION	BY
9/9/88	Changed Storm Drain Profiles & change	WCB
6/16/89	Structure Schedule	CFH
5/28/91	Revised Structure Schedule 3-6 & 7-83	JCO

OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
C/O HOWARD COUNTY LAND SERVICES
8307 MAIN STREET
ELLCOTT CITY, MARYLAND 21043

[Signature]
CHARLES J. CROVO SR.
DATE: 5/4/87

STORM DRAIN PROFILES, STORM WATER MANAGEMENT POND #2 PROFILE & DETAILS

TURF VALLEY OVERLOOK

SECTION 2 AREA 1
LOTS 170-288
2ND. ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN SHEET 14 OF 18 JUNE 15, 1987

265

POND SPECIFICATIONS

I. SITE PREPARATION

Areas under the embankment and structural works shall be cleared, grubbed and the topsoil stripped to remove all trees, vegetation, roots or other objectionable material. To facilitate clean up and restoration, it is recommended that the permanent pool area be cleared of all brush and trees.

II. EARTH FILL

Material

The fill material shall be taken from approved designated borrow area or areas. It shall be free from roots, stumps, wood, rubbish, over-size 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 at least 10 percent above the design elevation (including freeboard) unless otherwise shown on the plans. All fill material shall be CL or ML, as approved by Soils Engineer.

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.

Core Trench

Where specified, a core 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 governed by the equipment used for excavation, with the minimum width being 4-feet. The depth shall be at least 4-feet or as shown on the plans. The side slopes of the trench shall be 1:1 or flatter. The backfill material for the core trench shall be the most impervious material available and shall be compacted with equipment or rollers to assure maximum density and minimum permeability. Compact to 95% of AASHTO T-99 density. Materials shall be CL or ML as approved by Soils Engineer.

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 4-inches in thickness and compacted by hand tamers or other compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than 4-feet to any part of a structure. Under no circumstances shall the contractor drive equipment over any part of a structure or pipe unless there is a compacted fill of 2-feet or greater over the structure or pipe.

IV. PIPE CONDUITS

A. CORRUGATED METAL PIPE

- Materials - Metal Pipe - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211, with watertight coupling bands.
- Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the control structure shall be mortared all around. Watertight coupling bands shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to be completely 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. CONCRETE

Concrete shall meet minimum requirements set forth in Maryland State Highway Administration Specifications for Materials, Highways, Bridges, and Incidental Structures, Article 20.07 (Portland Cement Concrete Mixtures), Mix No. 3.

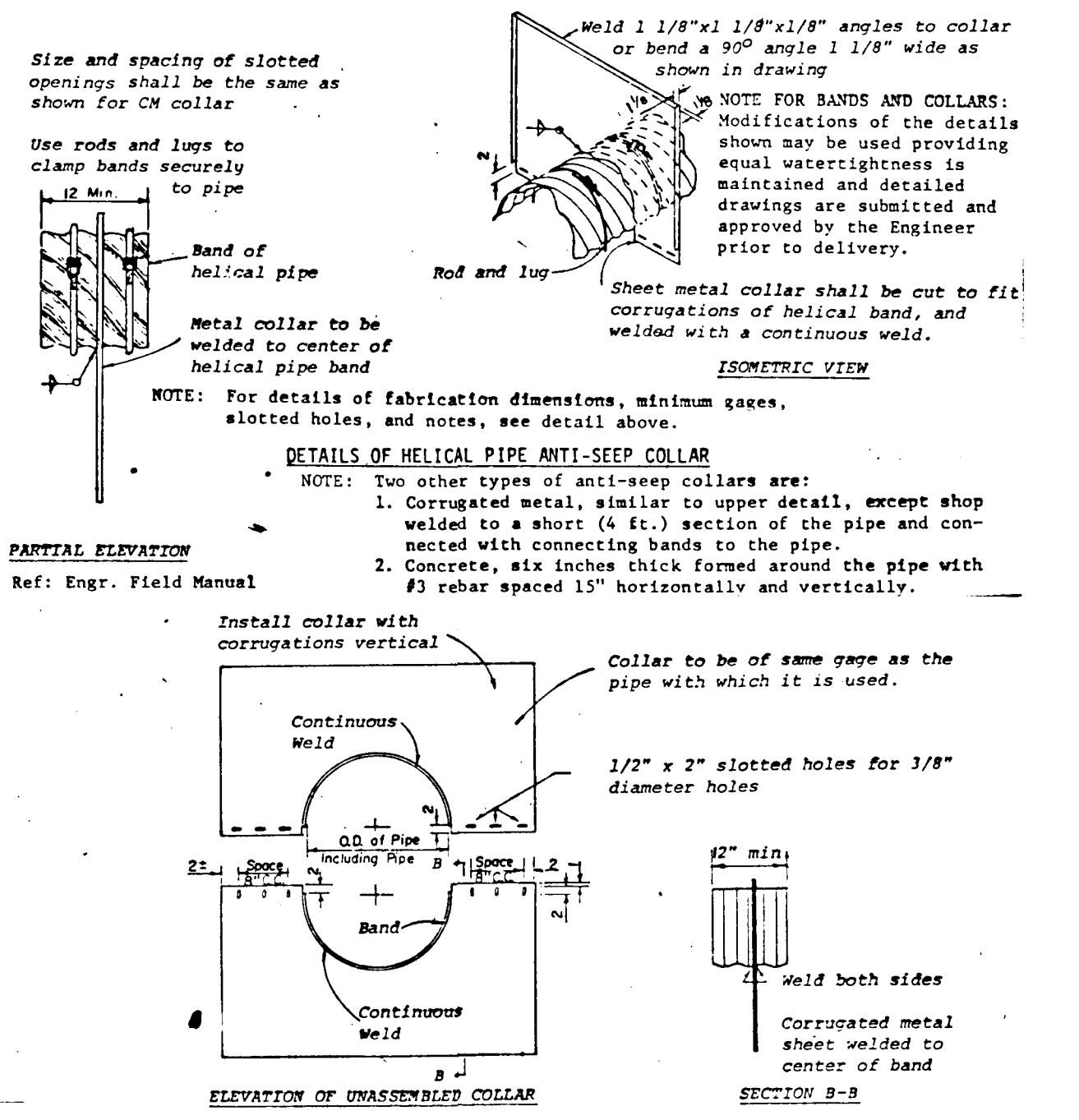
VI. STABILIZATION

All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway and borrow areas shall be stabilized by permanent seeding and applying straw mulch in accordance with "Standards and Specifications for Soil Erosion and Sediment Control in Urbanizing Areas" immediately after finish grading.

All Exposed Areas Of The Embankment And Pond Shall Be Stabilized By:

- Spreading a Topsoil (Including Bottom Of Ponds)
- Working in 1 Ton of Ground Limestone and 1,000 Pounds of 10-10-10 Fertilizer Per Acre (Including Bottom Of Ponds)
- Seed with 25 lbs. Acre of Kentucky 31 Tall Fescue, and 15 lbs. Acre of Bromus sp. mulch.
- Mulch with 1/2 tons Straw Per Acre.
- Tie Down Mulch with Emulsified Asphalt @ 200 Gallons/Acre.

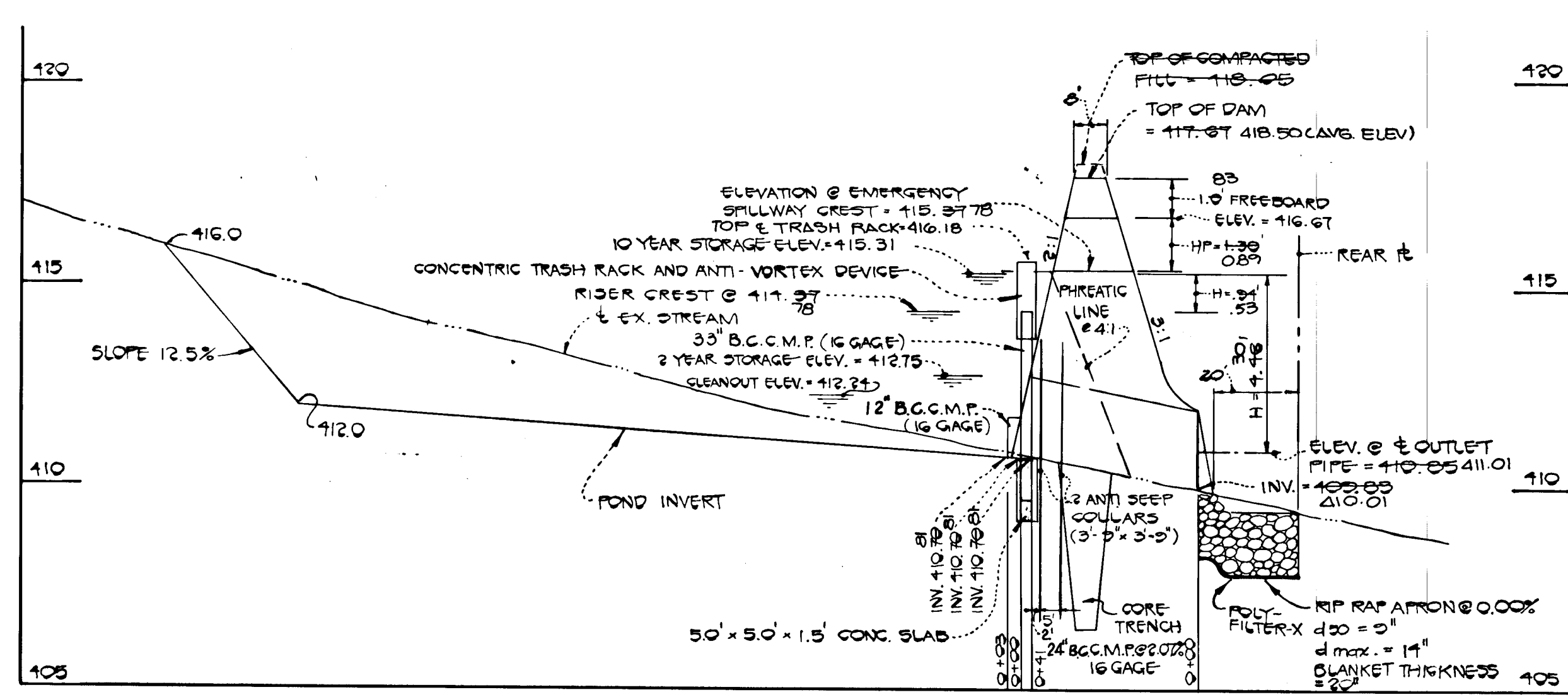
- NOTES:
- ALL PIPE JOINTS SHALL BE WATERTIGHT.
 - ALL WELDS SHALL BE CONTINUOUS AROUND THE DIAMETER OF THE PIPE.
 - HAZARD CLASSIFICATION OF PONDS IS CLASS A.



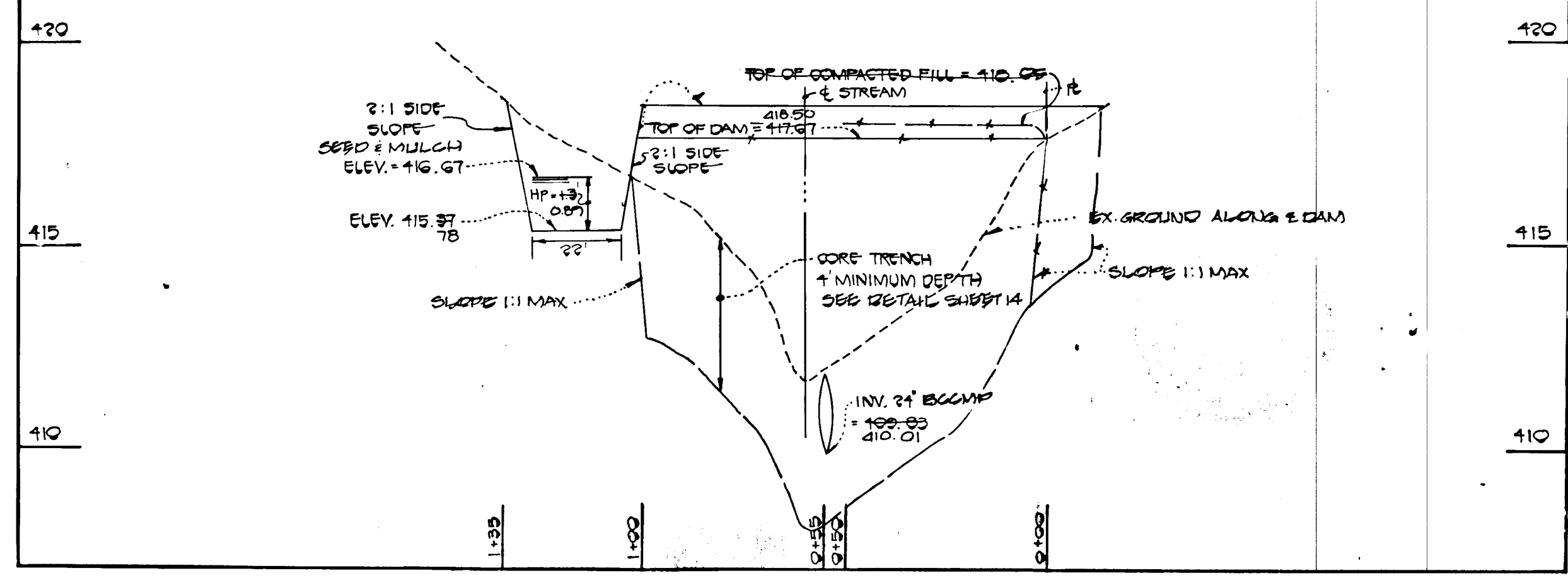
CORRUGATED METAL ANTI-SEEP COLLAR DETAILS
NO SCALE

NOTES FOR COLLARS:

- All materials to be in accordance with construction and construction material specifications.
- When specified on the plans, coating of collars shall be in accordance with construction and construction material specifications.
- Unassembled collars shall be marked by painting or tagging to identify matching pairs.
- The lap between the two half sections and between the pipe and connecting band shall be caulked with asphalt mastic at time of installation.
- Each collar shall be furnished with two 1/2" diameter rods with standard tank lug for connecting collars to pipe.



STORM WATER MANAGEMENT POND #1 PROFILE
SCALE: 1" = 30' HOR.
1" = 3' VERT.



PROFILE ALONG E DAM @ POND #1
SCALE: 1" = 30' HOR.
1" = 3' VERT.

SECTION	G	H	I
1	1'-0"	2'-0"	1'-0"
2	1'-0"	2'-0"	1'-0"

SECTION A-A SCHEDULE

STORM WATER MANAGEMENT POND CERTIFICATION AND APPROVAL

DEVELOPER'S CERTIFICATE

"I HEREBY 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."

Signature of Developer: *Charles J. Crovo* DATE: 8/4/87

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 AN AS-BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

Signature of Engineer: *Robert W. Ziehm* DATE: 8/4/87

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.

Signature: *James M. Helm* DATE: 10/29/87
U.S. SOIL CONSERVATION SERVICE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

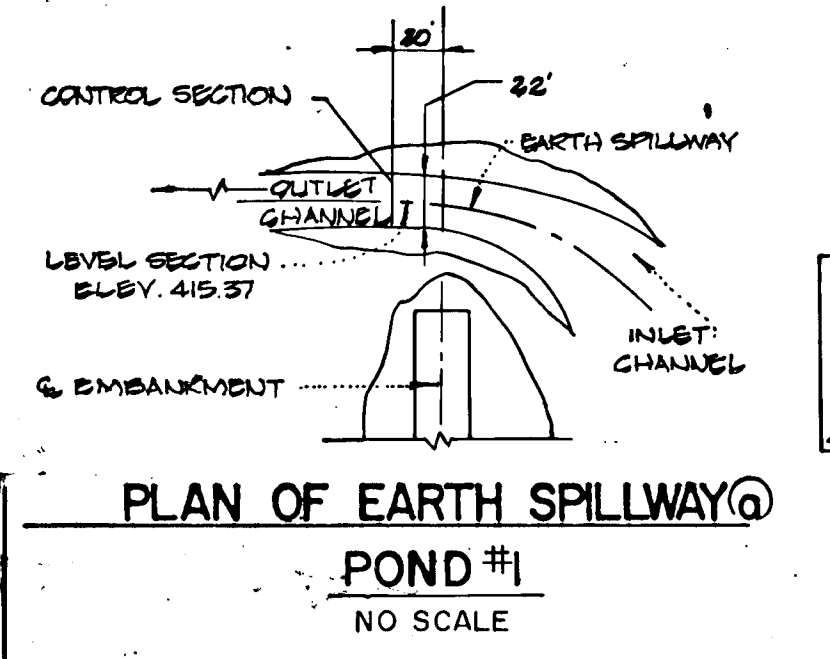
Signature: *Robert W. Ziehm* DATE: 10/29/87
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: DEPARTMENT OF PUBLIC WORKS
Signature: *Charles J. Crovo* DATE: 11-5-87
CHIEF, BUREAU OF ENGINEERING

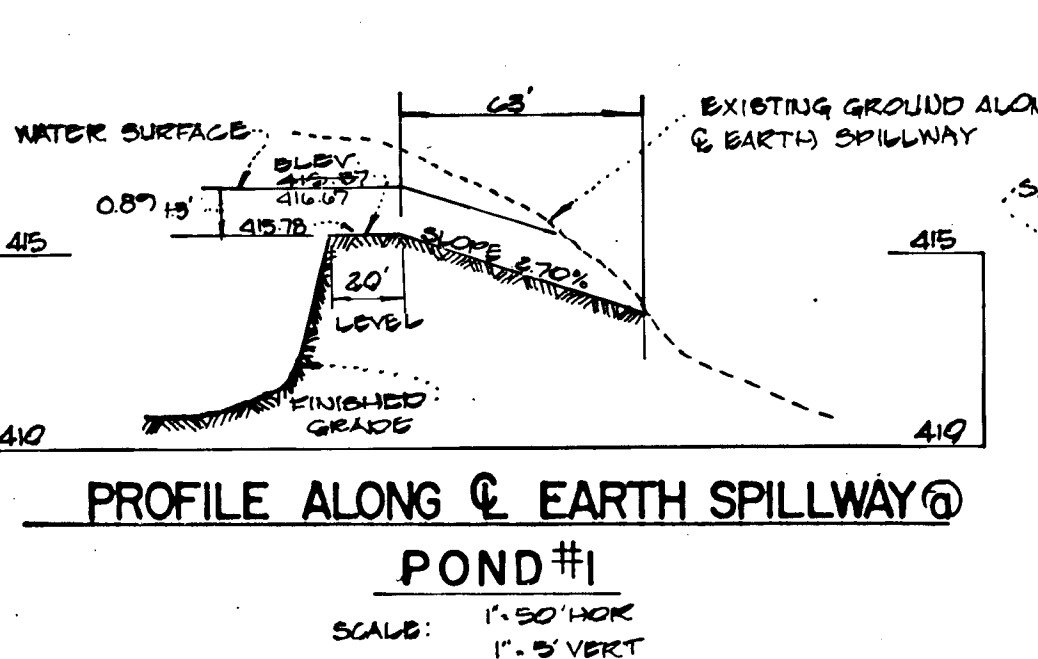
APPROVED: OFFICE OF PLANNING AND ZONING
Signature: *John M. Muehlen* DATE: 11-2-87
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: DEPARTMENT OF PUBLIC WORKS
Signature: *Grainger W. Wilstead* DATE: 11/4/87
CHIEF, BUREAU OF HIGHWAYS

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERS & LAND SURVEYORS
8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043

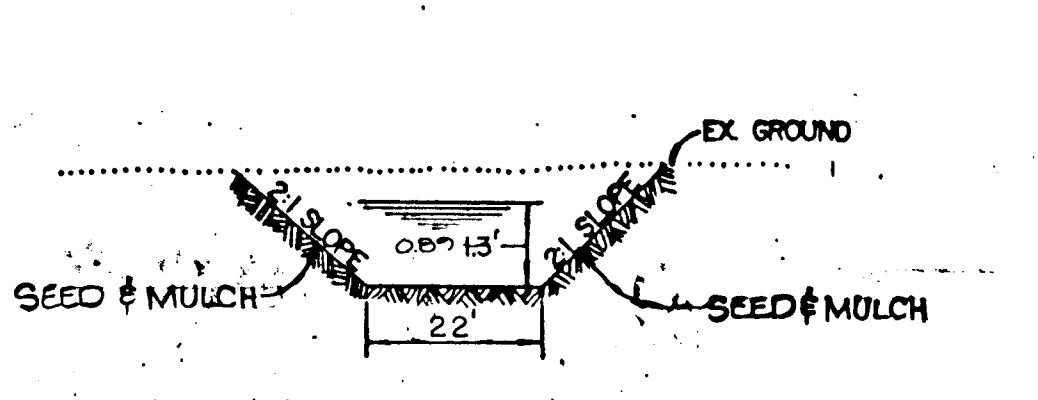


PLAN OF EARTH SPILLWAY @ POND #1
NO SCALE

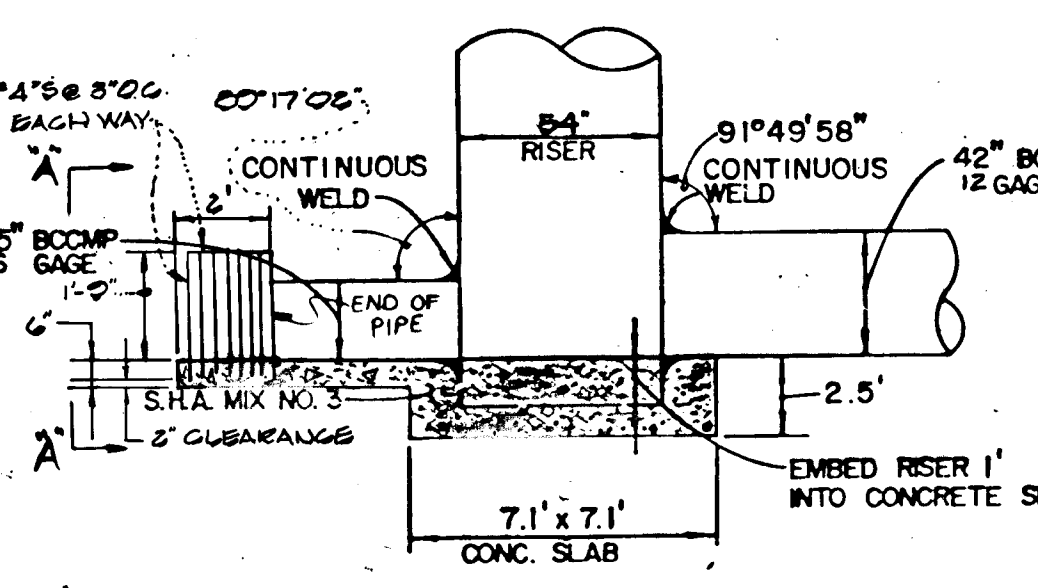


PROFILE ALONG E EARTH SPILLWAY @ POND #1
SCALE: 1" = 30' HOR.
1" = 3' VERT.

EMERGENCY SPILLWAY DETAILS



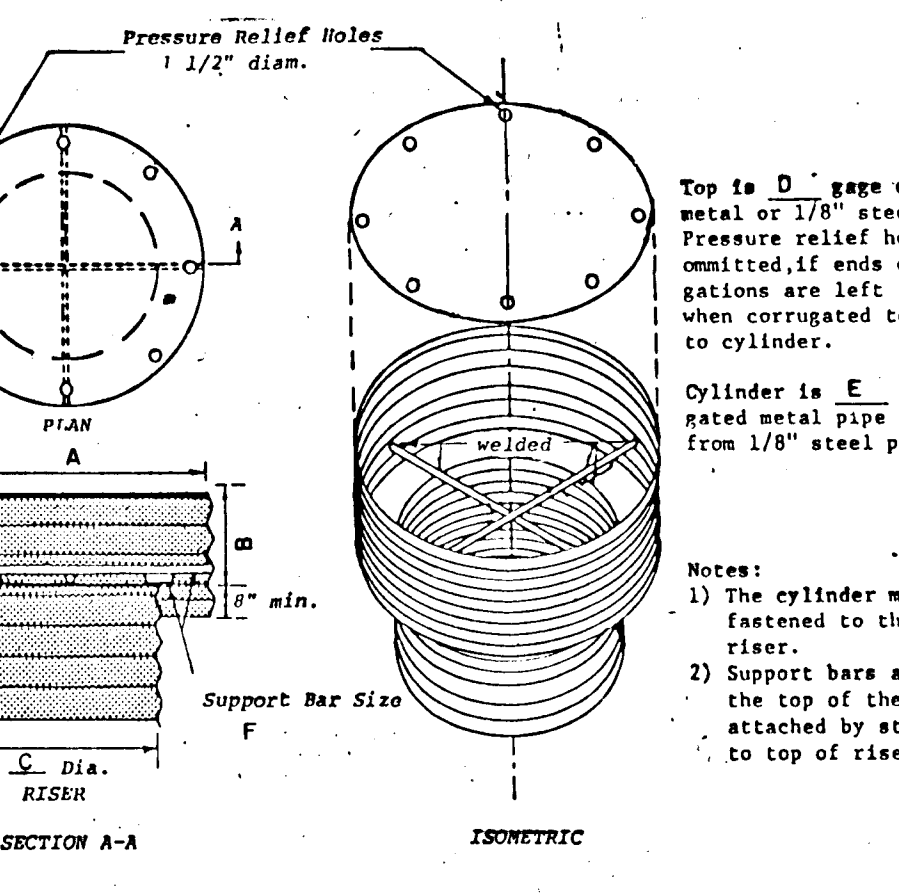
CROSS SECTION OF EARTH SPILLWAY AT CONTROL SECTION FOR POND #1
NO SCALE



RISER STRUCTURE DETAIL @ POND #2
NO SCALE

RIP RAP APRON DETAIL @ POND #2

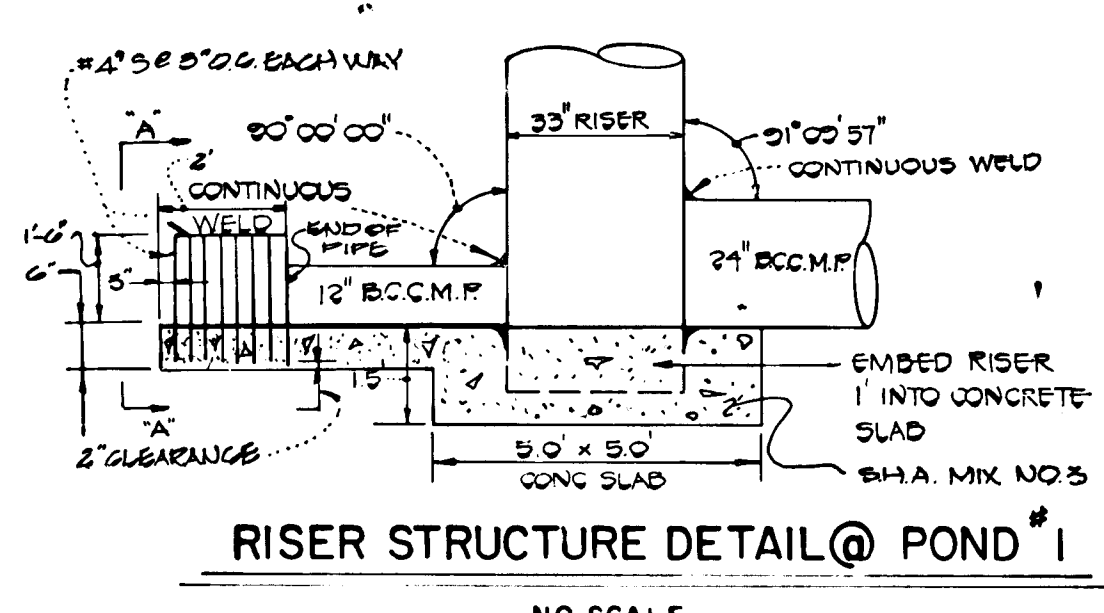
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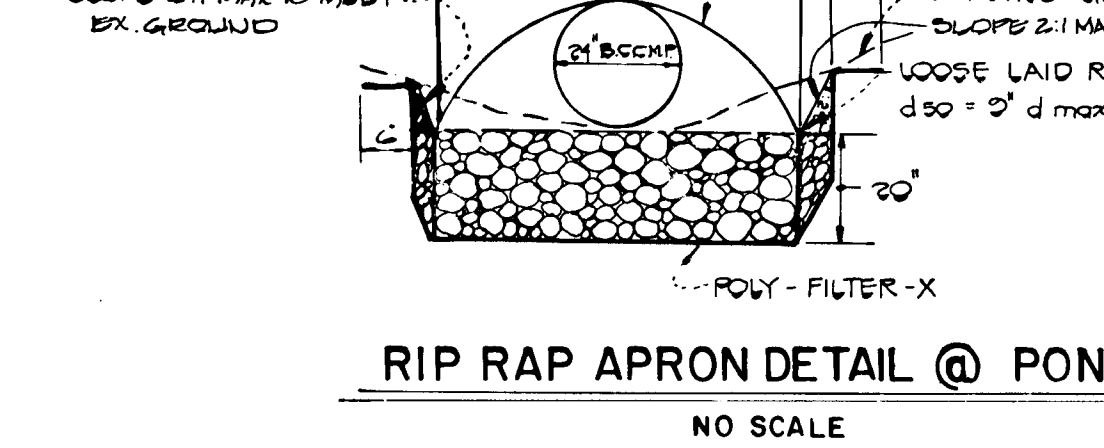
RIP RAP APRON DETAIL @ POND #2
NO SCALE

POND #	A	B	C	D	E	F
1	47"	14"	33"	12	14	#8 REBAR
2	80"	14"	24"	10	12	1/4" PIPE

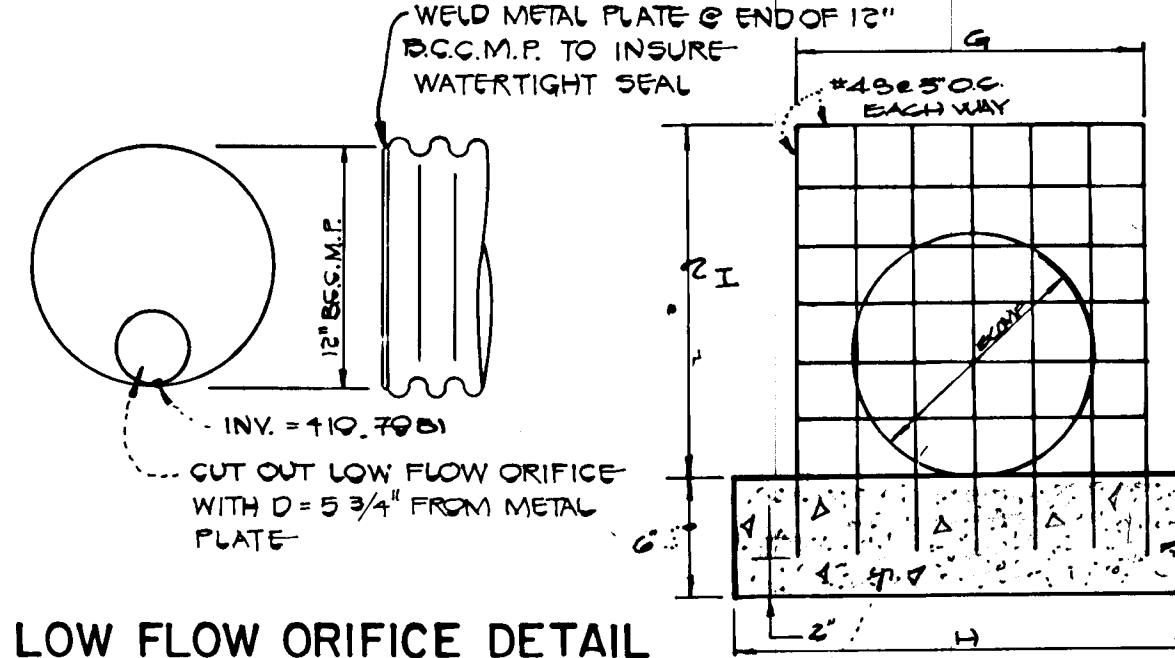
THIS AS-BUILT SURVEY CERTIFIED BY CHARLES J. CROVO, MD PE No. 15204 ON SEPT 14, 1990.



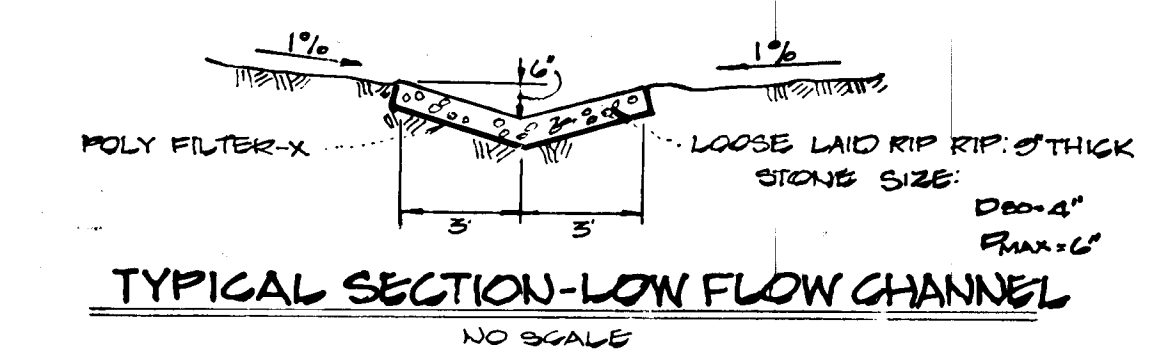
RISER STRUCTURE DETAIL @ POND #1
NO SCALE



RIP RAP APRON DETAIL @ POND #1
NO SCALE



LOW FLOW ORIFICE DETAIL @ POND #1
NO SCALE

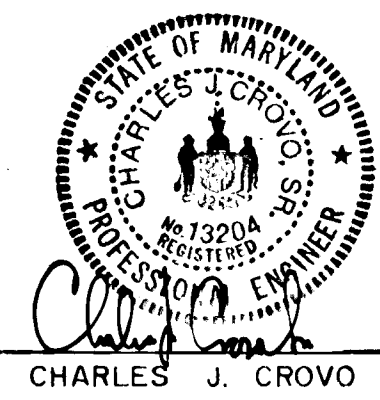


TYPICAL SECTION - LOW FLOW CHANNEL
NO SCALE

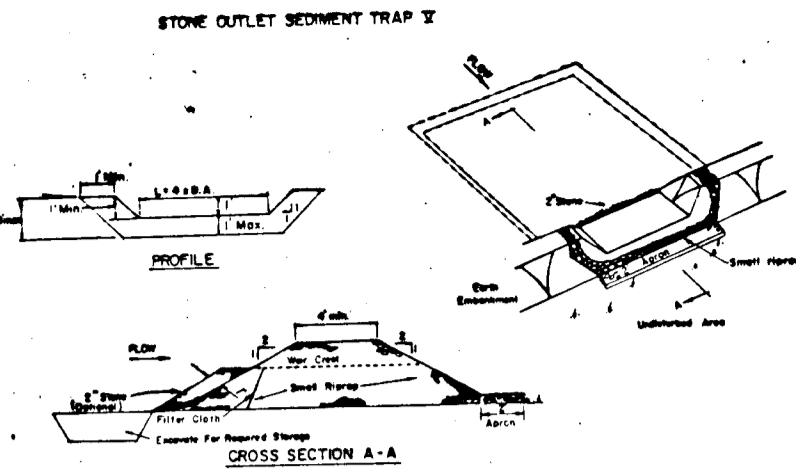
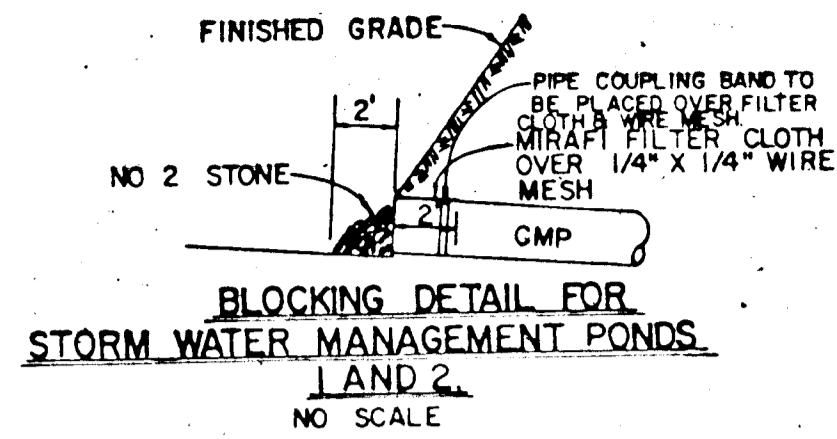
OWNER AND DEVELOPER

PEDDICORD PROPERTY PARTNERSHIP
C/O HOWARD COUNTY LAND SERVICES
8307 MAIN STREET
ELLCOTT CITY, MARYLAND 21043

STORM WATER MANAGEMENT PONDS #1 & 2
PROFILES AND DETAILS
TURF VALLEY OVERLOOK
SECTION 2 AREA 1
SECOND ELECTION DISTRICT
HOWARD COUNTY MARYLAND
SCALE: AS SHOWN JUNE 15, 1987
SHEET 15 OF 18



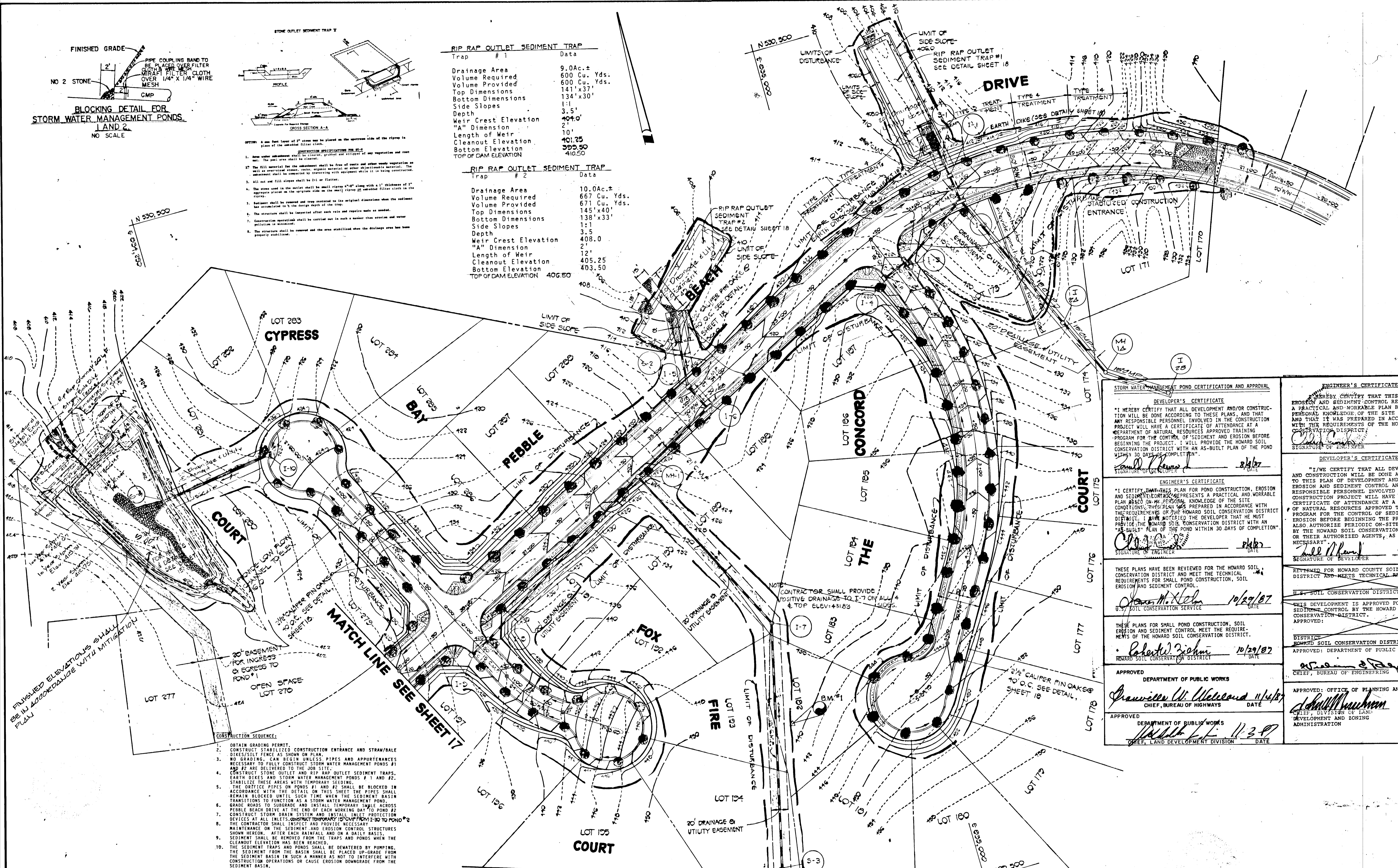
265



RIP RAP OUTLET SEDIMENT TRAP	
Trap #	Data
1	Drainage Area 9.0Ac.±
	Volume Required 600 Cu. Yds.
	Volume Provided 600 Cu. Yds.
	Top Dimensions 141'x33'
	Bottom Dimensions 134'x30'
	Side Slopes 1:1
	Depth 3.5'
	Weir Crest Elevation 404.0'
	"A" Dimension 2'
	Length of Weir 10'
	Cleanout Elevation 401.25'
	Bottom Elevation 395.50'
	TOP OF DAM ELEVATION 410.50'

RIP RAP OUTLET SEDIMENT TRAP	
Trap #	Data
2	Drainage Area 10.0Ac.±
	Volume Required 667 Cu. Yds.
	Volume Provided 671 Cu. Yds.
	Top Dimensions 145'x40'
	Bottom Dimensions 138'x33'
	Side Slopes 1:1
	Depth 3.5'
	Weir Crest Elevation 408.0'
	"A" Dimension 2'
	Length of Weir 12'
	Cleanout Elevation 405.25'
	Bottom Elevation 403.50'
	TOP OF DAM ELEVATION 406.50'

- CONSTRUCTION SPECIFICATIONS FOR POND #1
1. All rip rap shall be placed on the upstream side of the rip rap in place of the sediment basin.
 2. The rip rap shall be placed on a prepared subgrade.
 3. The rip rap shall be placed on a prepared subgrade.
 4. The rip rap shall be placed on a prepared subgrade.
 5. The rip rap shall be placed on a prepared subgrade.
 6. The rip rap shall be placed on a prepared subgrade.
 7. The rip rap shall be placed on a prepared subgrade.
 8. The rip rap shall be placed on a prepared subgrade.
 9. The rip rap shall be placed on a prepared subgrade.
 10. The rip rap shall be placed on a prepared subgrade.
 11. The rip rap shall be placed on a prepared subgrade.
 12. The rip rap shall be placed on a prepared subgrade.
 13. The rip rap shall be placed on a prepared subgrade.
 14. The rip rap shall be placed on a prepared subgrade.
 15. The rip rap shall be placed on a prepared subgrade.
 16. The rip rap shall be placed on a prepared subgrade.
 17. The rip rap shall be placed on a prepared subgrade.



STORM WATER MANAGEMENT POND CERTIFICATION AND APPROVAL

DEVELOPER'S CERTIFICATE

"I HEREBY 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."

Signature: *[Signature]* Date: 8/4/87

Signature of Engineer: *[Signature]* Date: 8/4/87

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, THE HOWARD SOIL CONSERVATION DISTRICT 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 DEEMED NECESSARY."

Signature: *[Signature]* Date: 8/4/87

Signature of Developer: *[Signature]* Date: 8/4/87

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

U.S. SOIL CONSERVATION DISTRICT DATE: 10/29/87

U.S. SOIL CONSERVATION SERVICE

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.

Signature: *[Signature]* Date: 10/29/87

HOWARD SOIL CONSERVATION DISTRICT

APPROVED DEPARTMENT OF PUBLIC WORKS

Signature: *[Signature]* Date: 11/14/87

CHIEF, BUREAU OF HIGHWAYS

APPROVED DEPARTMENT OF PUBLIC WORKS

Signature: *[Signature]* Date: 11/3/87

CHIEF, LAND DEVELOPMENT DIVISION

ENGINEER'S CERTIFICATE

"I HEREBY 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 AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Signature: *[Signature]* Date: 8/4/87

Signature of Engineer: *[Signature]* Date: 8/4/87

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 DEEMED NECESSARY."

Signature: *[Signature]* Date: 8/4/87

Signature of Developer: *[Signature]* Date: 8/4/87

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

U.S. SOIL CONSERVATION DISTRICT DATE: 10/29/87

U.S. SOIL CONSERVATION SERVICE

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

APPROVED:

Signature: *[Signature]* Date: 11-5-87

CHIEF, BUREAU OF ENGINEERING

APPROVED: OFFICE OF PLANNING AND ZONING

Signature: *[Signature]* Date: 11-2-87

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

- CONSTRUCTION SEQUENCE:**
1. OBTAIN GRADING PERMIT.
 2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AND STRAW/BALE DIKES/SILT FENCE AS SHOWN ON PLAN.
 3. NO GRADING, CAR BEGIN UNLESS PIPES AND APPURTENANCES NECESSARY TO FULLY CONSTRUCT STORM WATER MANAGEMENT PONDS #1 AND #2 ARE DELIVERED TO THE JOB SITE.
 4. CONSTRUCT STONE OUTLET AND RIP RAP OUTLET SEDIMENT TRAPS, EARTH DIKES AND STORM WATER MANAGEMENT PONDS #1 AND #2. STABILIZE THESE AREAS WITH TEMPORARY SEEDING.
 5. THE OFFICE PIPES ON PONDS #1 AND #2 SHALL BE BLOCKED IN ACCORDANCE WITH THE DETAIL ON THIS SHEET. THE PIPES SHALL REMAIN BLOCKED UNTIL SUCH TIME WHEN THE SEDIMENT BASIN TRANSITIONS TO FUNCTION AS A STORM WATER MANAGEMENT POND.
 6. GRADE ROADS TO SUBGRADE AND INSTALL TEMPORARY SHALE ACROSS PEBBLE BEACH DRIVE AT THE END OF EACH WORKING DAY TO POND #2.
 7. CONSTRUCT STORM DRAIN SYSTEM AND INSTALL IMPACT PROTECTION DEVICES AT ALL INLETS. CONSTRUCT TEMPORARY DRAINAGE TO POND #2.
 8. THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON. AFTER EACH RAINFALL AND ON A DAILY BASIS, SEDIMENT SHALL BE REMOVED FROM THE TRAPS AND PONDS WHEN THE CLEANOUT ELEVATION HAS BEEN REACHED.
 9. THE SEDIMENT TRAPS AND PONDS SHALL BE DEMATERED BY PUMPING. THE SEDIMENT FROM THE BASIN SHALL BE PLACED UP-GRADE FROM THE SEDIMENT BASIN IN SUCH A MANNER AS NOT TO INTERFERE WITH CONSTRUCTION OPERATIONS OR CAUSE EROSION DOWNGRADE FROM THE SEDIMENT BASIN.
 10. REMOVE SEDIMENT FROM ROADWAYS AND DRESS STONE CONSTRUCTION ENTRANCE AS REQUIRED.
 11. REMOVE IMPACT PROTECTION DEVICES AND FLUSH STORM DRAIN SYSTEM TO REMOVE ANY TRAPPED SEDIMENT. INSTALL RIP RAP APRONS.
 12. RECONSTRUCT CONSTRUCTION ENTRANCE AND STRAW BALE DIKE/SILT FENCE. CLEAN BASE COURSE. APPLY TOPSOIL TO BASE COURSE AND LAY SURFACE COURSE.
 13. ALL DISTURBED AREAS DUE TO REMOVAL OF SEDIMENT CONTROL MEASURES SHALL BE GRADED AND STABILIZED BY PERMANENT SEEDING.
 14. REMOVE STONE BLOCKING DEVICE AND ACCUMULATED SEDIMENT FROM THE STORMWATER MANAGEMENT PONDS. THE PONDS SHALL BE GRADED IN ACCORDANCE WITH THIS PLAN AND STABILIZED USING PERMANENT SEEDING.
 15. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 30 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DITCHES, SWALES, DITCH PERIMETER SLOPES AND ALL SLOPE AREAS. THIS SHALL BE COMPLETED WITHIN 18 DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 16. NOTIFY HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS FOR FINAL INSPECTION AT DURATION OF PROJECT.

PLAN
SCALE: 1"=50'



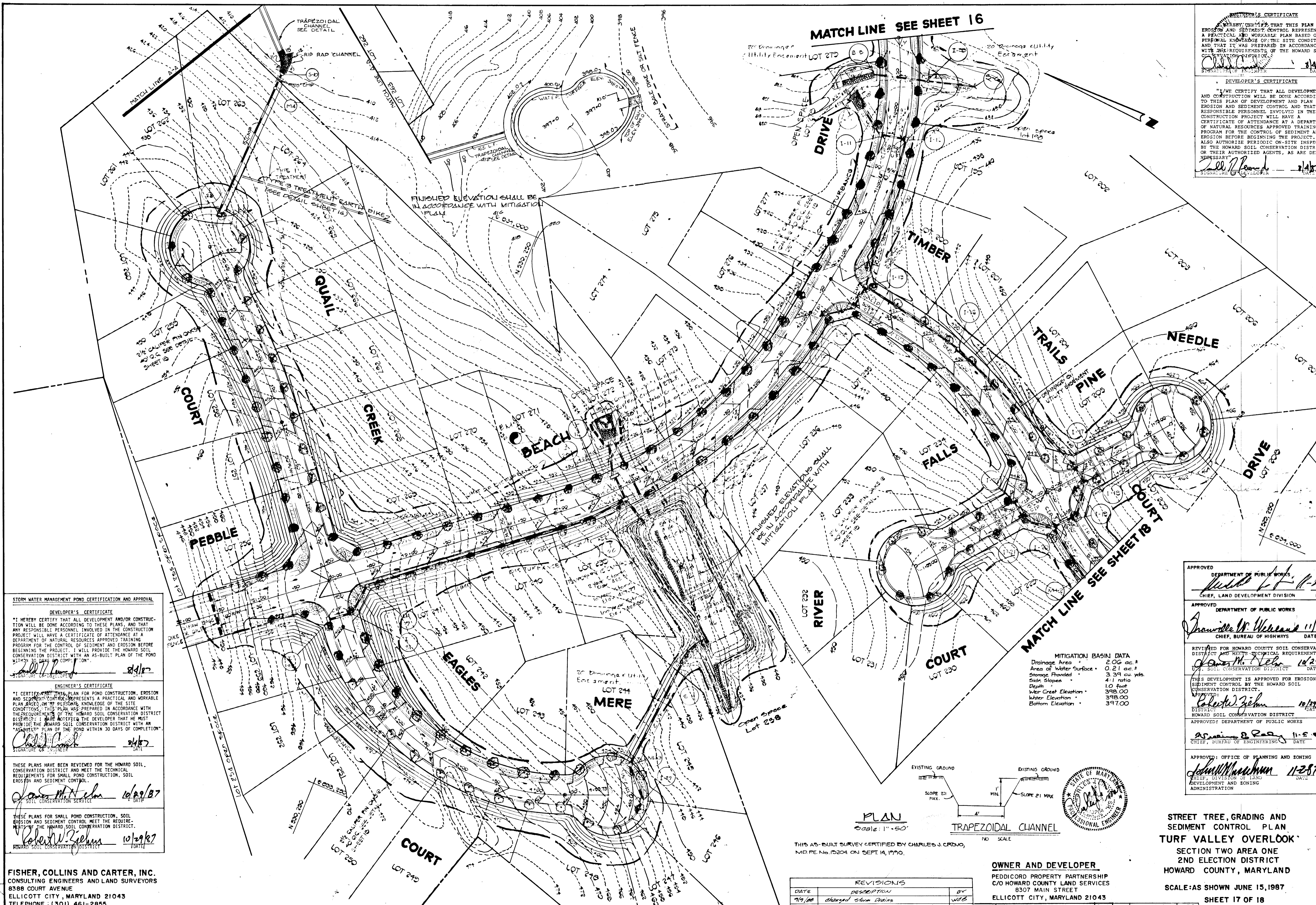
THIS AS-BUILT SURVEY CERTIFIED BY CHARLES J. CROVO, MD, PE, No. 15204 ON SEPT. 14, 1990.

OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
C/O HOWARD COUNTY LAND SERVICES
8307 MAIN STREET
ELLCOTT CITY, MARYLAND 21043

STREET TREE, GRADING AND SEDIMENT CONTROL PLAN
TURF VALLEY OVERLOOK
SECTION TWO AREA ONE
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN JUNE 15, 1987
SHEET 16 OF 18

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FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043
TELEPHONE: (301) 461-2855



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 J. Dowd 11/17/87
 REGISTERED PROFESSIONAL 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.
John W. Weisman 11/17/87
 REGISTERED PROFESSIONAL ENGINEER DATE

STORM WATER MANAGEMENT POND CERTIFICATION AND APPROVAL

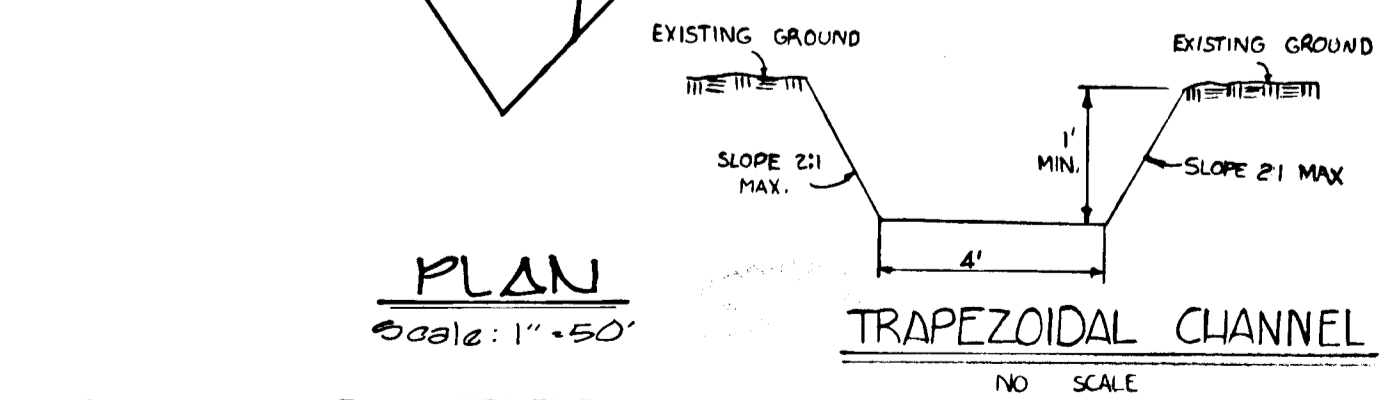
DEVELOPER'S CERTIFICATE
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE 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.
John W. Weisman 11/17/87
 REGISTERED PROFESSIONAL ENGINEER DATE

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 AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
Robert W. Ziehm 10/29/87
 REGISTERED PROFESSIONAL ENGINEER 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.
Robert W. Ziehm 10/29/87
 HOWARD SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Robert W. Ziehm 10/29/87
 HOWARD SOIL CONSERVATION DISTRICT DATE

FISHER, COLLINS AND CARTER, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043
 TELEPHONE: (301) 461-2855



THIS AS-BUILT SURVEY CERTIFIED BY CHARLES J. DOWD, MD. PE. NO. 10204 ON SEPT. 14, 1990.

REVISIONS		
DATE	DESCRIPTION	BY
7/9/88	changed storm drains	wfb
6/17/89	ADDED TRAPEZOIDAL CHANNEL DETAIL & PLAN	SPH
10/30/87	changed storm drains	DCH
9/8/84	REVISED	JCS

OWNER AND DEVELOPER
 PEDDICORD PROPERTY PARTNERSHIP
 C/O HOWARD COUNTY LAND SERVICES
 8307 MAIN STREET
 ELLICOTT CITY, MARYLAND 21043

APPROVED
 DEPARTMENT OF PUBLIC WORKS
Mark E. H. 11-20-87
 CHIEF, LAND DEVELOPMENT DIVISION DATE

APPROVED
 DEPARTMENT OF PUBLIC WORKS
John W. Weisman 11/17/87
 CHIEF, BUREAU OF HIGHWAYS DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND METS TECHNICAL REQUIREMENTS.
James M. Ziehm 10/29/87
 DISTRICT SOIL CONSERVATION DISTRICT DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED:
Robert W. Ziehm 10/29/87
 DISTRICT SOIL CONSERVATION DISTRICT DATE

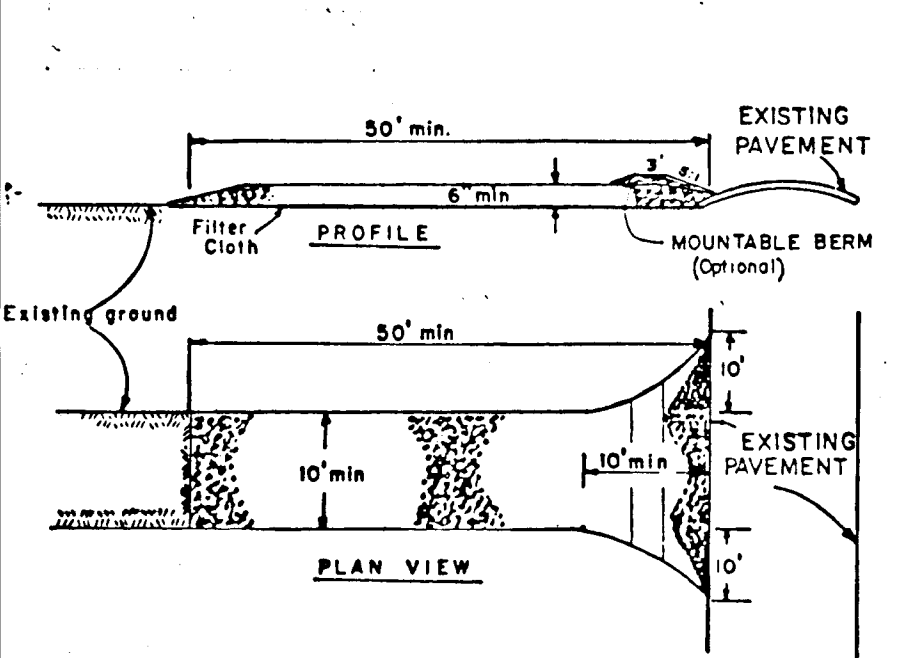
APPROVED: DEPARTMENT OF PUBLIC WORKS
James B. Ray 11-15-87
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: OFFICE OF PLANNING AND ZONING
John W. Weisman 11-25-87
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

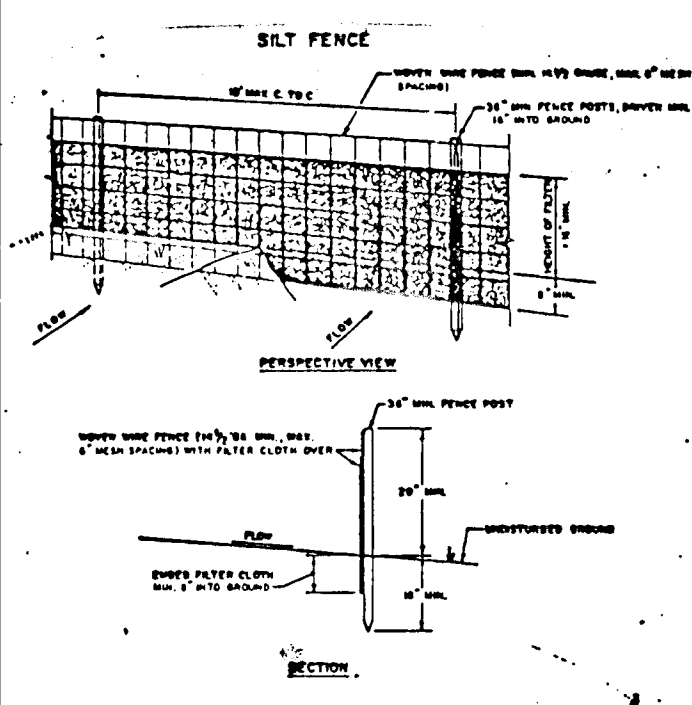
STREET TREE, GRADING AND SEDIMENT CONTROL PLAN
TURF VALLEY OVERLOOK
 SECTION TWO AREA ONE
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 HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN JUNE 15, 1987
 SHEET 17 OF 18

265

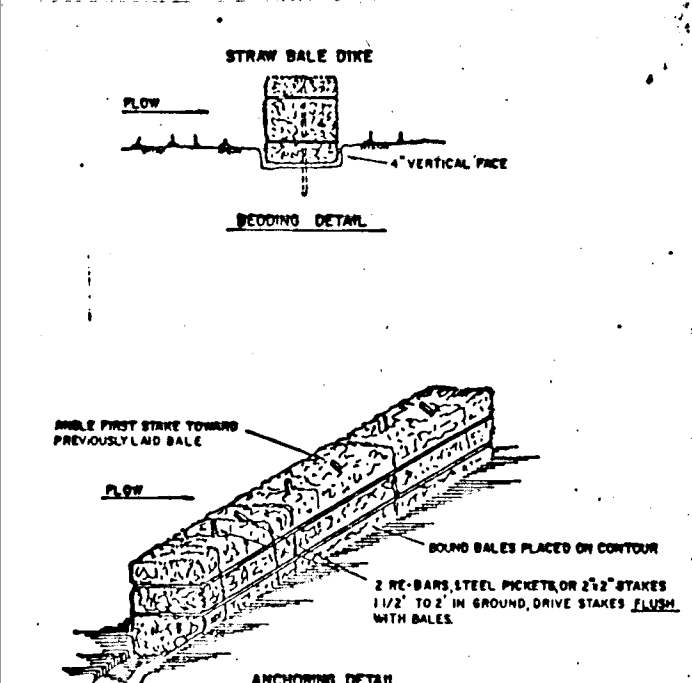
STABILIZED CONSTRUCTION ENTRANCE
not to scale



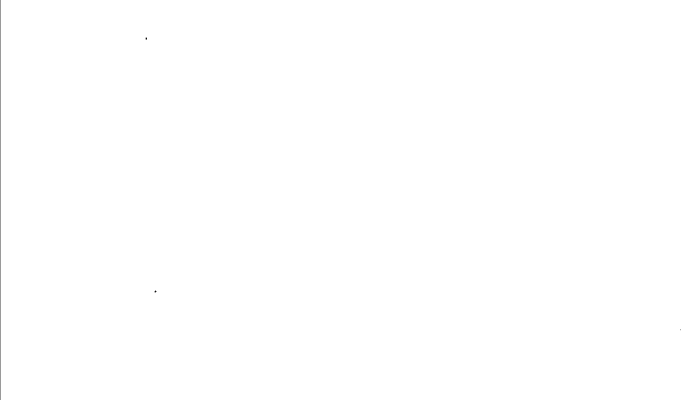
- CONSTRUCTION SPECIFICATIONS**
- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
 - Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
 - Thickness - Not less than six (6) inches.
 - Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
 - Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
 - Surface Water - All surface water flowing or directed toward construction entrances shall be piped across the entrance. If piping is impractical, a mounded berm with six (6) slopes will be permitted.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleaning of any measure used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 - Washing - Vehicles shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area established with stone and which drains into an approved sediment trapping device.
 - Periodic inspection and needed maintenance shall be provided after each rain.



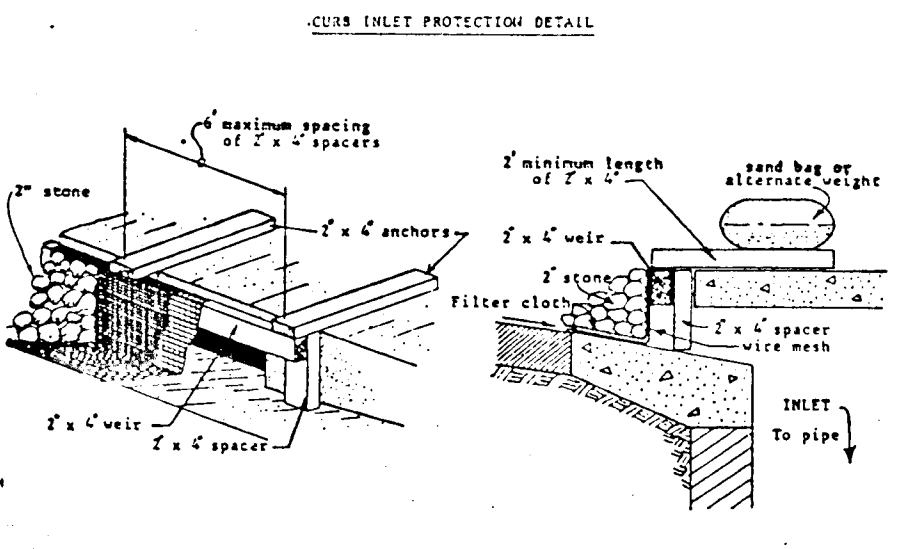
- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
- SHOW PIPE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR CHAINS.
 - FILTER CLOTH TO BE FASTENED SECURELY TO POSTS AT TOP AND MID SECTION.
 - MIN. NO. SECTION OF FILTER CLOTH. BOTTOM SECTION SHALL BE OVERLAPPED BY SIX INCHES AND POLED.
 - MAINTENANCE SHALL BE PERFORMED AS PER THE FILING RECORDS WHEN FAULTY DEVELOP IN THE SILT FENCE.
- NOTES:** STEEL TUBES TO BE 2" DIA. WITH 1/2" WALL THICKNESS. FABRIC FILTER CLOTH TO BE 2' X 10' PANELS. FABRIC TO BE 100% POLYPROPYLENE. FABRIC TO BE FASTENED TO POSTS WITH WIRE TIES OR CHAINS.



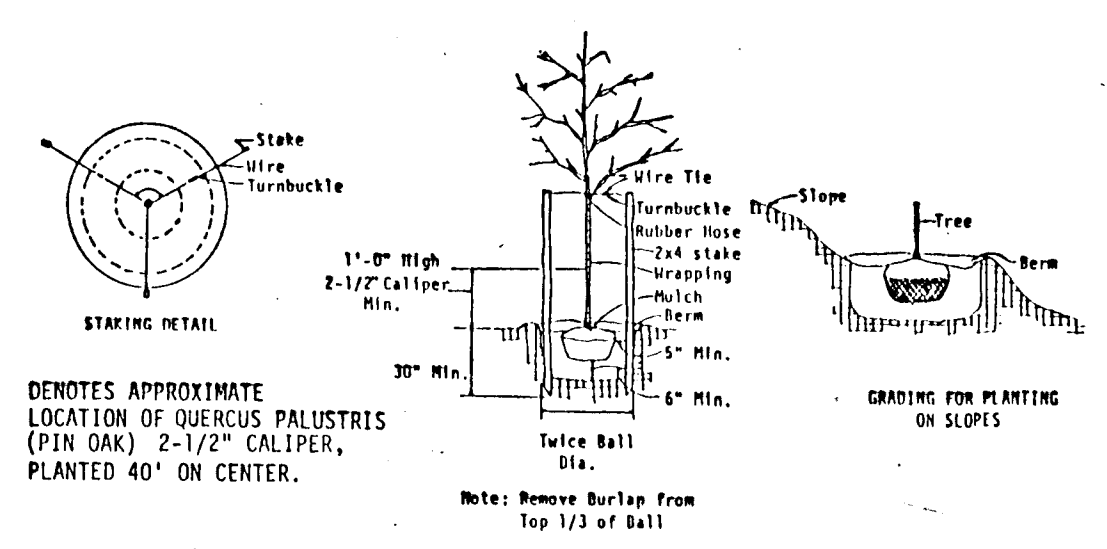
- CONSTRUCTION SPECIFICATIONS**
- Bales shall be placed on the top of a slope or on the contour and in a row with each baffle forming the dike.
 - Each baffle shall be placed in the dike a minimum of (6) inches, and placed so the baffles are horizontal.
 - Bales shall be closely packed in place by driving two stakes or iron rods driven through the bales. In each case, the stakes shall be driven through the bales with the bales.
 - Inspection shall be provided and repair replacement shall be made properly as needed.
 - Bales shall be removed when they have served their usefulness so as not to block on upper storm flow or drainage.



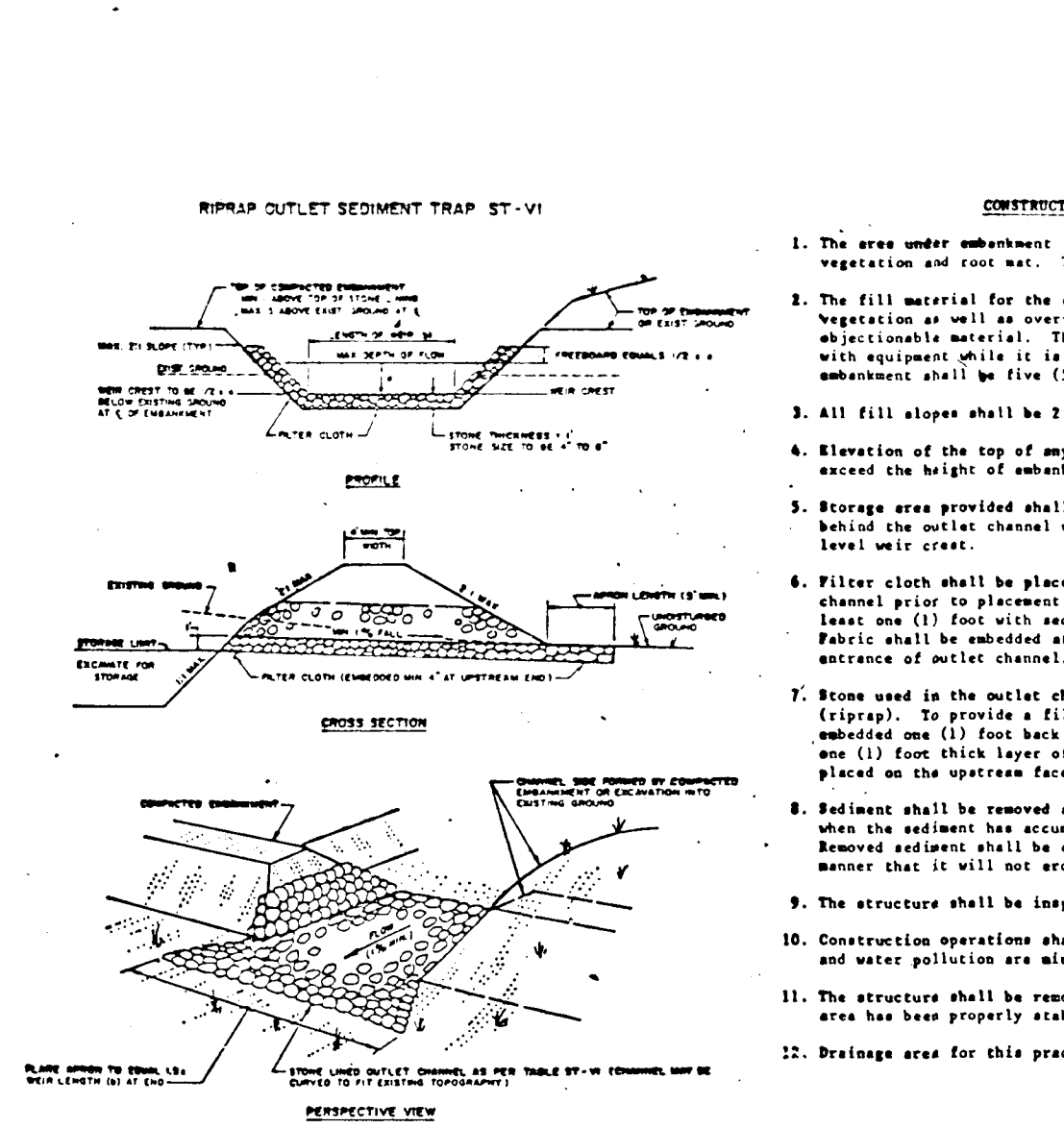
- CONSTRUCTION SPECIFICATIONS**
- All straw bales shall have unadorned positive ends to be used.
 - Exposed ends of a dike shall be covered to a minimum of 12 inches.
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 - All straw bales shall be placed on a concrete or stone foundation.
 - The dike shall be placed on a concrete or stone foundation.
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- CONSTRUCTION SPECIFICATIONS**
- Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2" x 4" weir (assuming throat length plus 4") as shown on the standard drawing.
 - Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
 - Securely nail the 2" x 4" weir to 8" long vertical anchors to be located between the weir and inlet face (max. 6' apart).
 - Place the assembly against the inlet throat and nail (minimum 2" length of 2" x 4" to the top of the weir at spacer locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
 - The assembly shall be placed so that the anchors are a minimum 1" beyond both ends of the throat opening.
 - Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 1/2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
 - This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
 - Ensure that storm flow does not bypass inlet by installing temporary earth or asphalt dike directing flow into inlet.



- CONSTRUCTION SPECIFICATIONS FOR ST-VI**
- The area under embankment shall be cleared, grubbed and stripped of any vegetation and top soil. The soil area shall be cleared.
 - The fill material for the embankment shall be free of roots or other woody vegetation to well as over-sized stones, cobbles, organic material or other objectionable material. The embankment shall be constructed by layering with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at crest of embankment.
 - All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
 - Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
 - Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the level weir crest.
 - Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (1) foot with section nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
 - Stone used in the outlet channel shall be four (4) to eight (8) inches (rippap). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot back from the upstream face of the outlet stone or a one (1) foot thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
 - Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
 - The structure shall be inspected after each rain and repaired as needed.
 - Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
 - The structure shall be removed and the area stabilized when the drainage area has been properly established.
 - Drainage area for this practice is limited to 15 acres or less.



- SEEDING CONTROL NOTES:**
- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (1992-2437).
 - 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, 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 SITE.
 - 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. 53). 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 TRAPPING/RETENTION STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 - SEEDING: SEEDING SHALL BE COMPLETED 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. 53). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
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- The area under embankment shall be cleared, grubbed and stripped of any vegetation and top soil. The soil area shall be cleared.
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 - The structure shall be inspected after each rain and repaired as needed.
 - Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
 - The structure shall be removed and the area stabilized when the drainage area has been properly established.
 - Drainage area for this practice is limited to 15 acres or less.

- PERMANENT SEEDING NOTES:**
- APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-VEGETATIVE COVER IS NEEDED.
- SEEDING PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.
- SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULE:
- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 600 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.).
 - ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL.
- SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 75 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 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROOTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.
- MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.
- TEMPORARY SEEDING NOTES:**
- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
- SEEDING PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.
- SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.).
- SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 25 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ. FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.
- MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROOTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (8 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.
- REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

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.

[Signature] 8/18/87
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"

[Signature] 8/18/87
SIGNATURE OF DEVELOPER DATE

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

[Signature] 10/29/87
DATE

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

APPROVED: *[Signature]* 10/29/87
DISTRICT CHIEF, HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS

[Signature] 11-5-87
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: OFFICE OF PLANNING AND ZONING

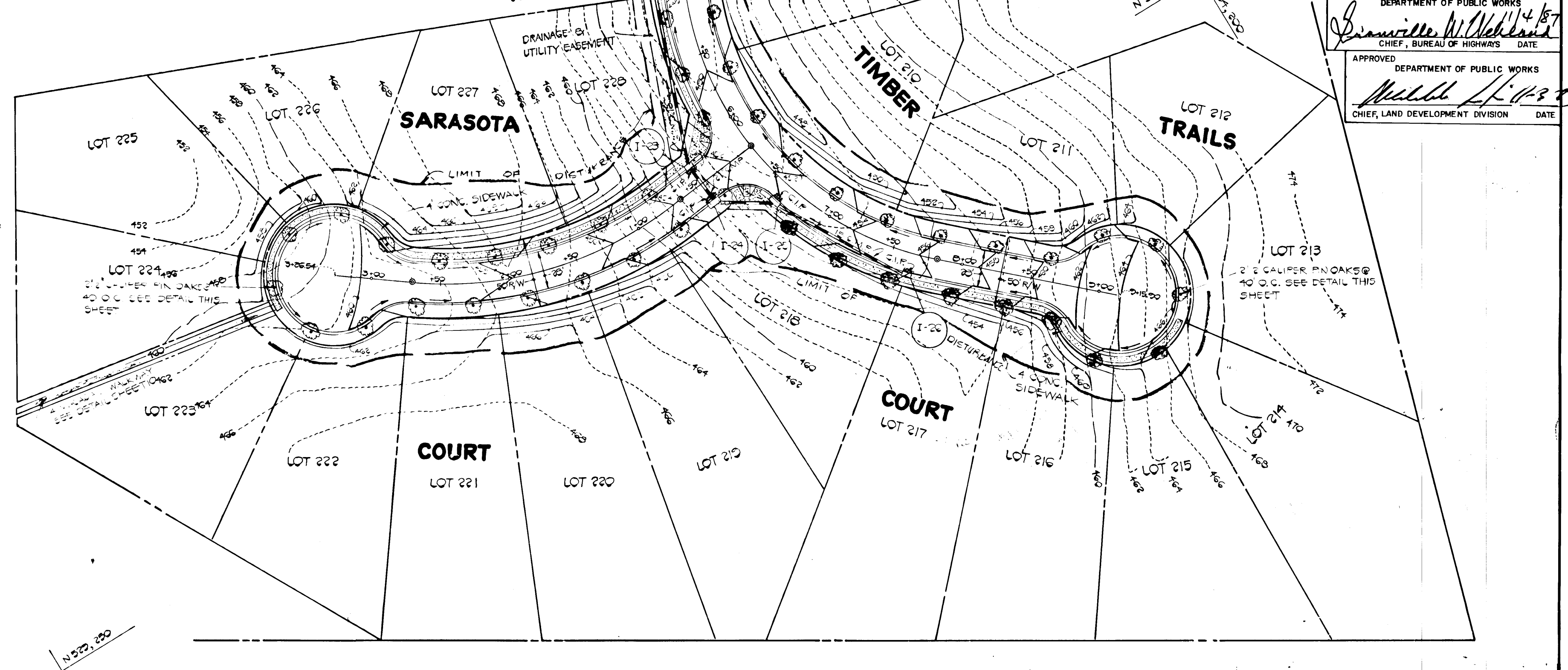
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CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS

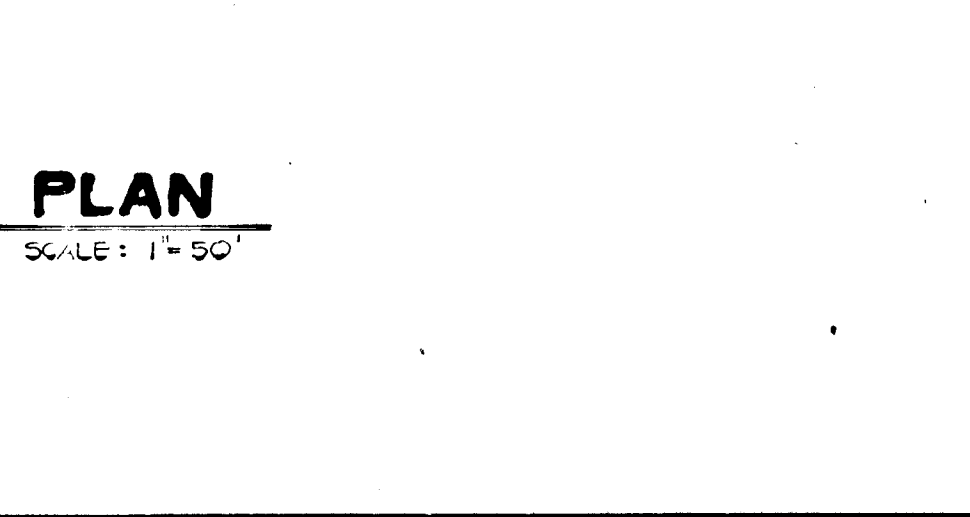
[Signature] 11-28-87
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS

[Signature] 11-28-87
CHIEF, LAND DEVELOPMENT DIVISION DATE



- CONSTRUCTION SPECIFICATIONS**
- All temporary dikes shall have unadorned positive ends to be used.
 - Exposed ends of a dike shall be covered to a minimum of 12 inches.
 - Exposed ends of a dike shall be covered to a minimum of 12 inches.
 - All straw bales shall be placed on a concrete or stone foundation.
 - The dike shall be placed on a concrete or stone foundation.
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PLAN
SCALE: 1" = 50'

OWNER AND DEVELOPER

PEDDICO PROPERTY PARTNERSHIP
C/O HOWARD COUNTY LAND SERVICES
8307 MAIN STREET
ELLCOTT CITY, MARYLAND 21043

STREET TREE, GRADING AND SEDIMENT CONTROL PLAN

TURF VALLEY OVERLOOK

SECTION TWO AREA ONE
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

AS SHOWN
SCALE: AS SHOWN JUNE 15, 1987
SHEET 18 OF 18

265

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERS & LAND SURVEYORS
8386 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043

