

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. Crovo Sr. 1/22/87

DEVELOPER'S CERTIFICATE
 I HAVE CERTIFIED THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.
 Gordon Greenspun 1/27/87

APPROVED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 Thomas M. Kelly 4-15-87
 U.S. SOIL CONSERVATION SERVICE

APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 Stephen J. Smith 4-15-87

GENERAL NOTES

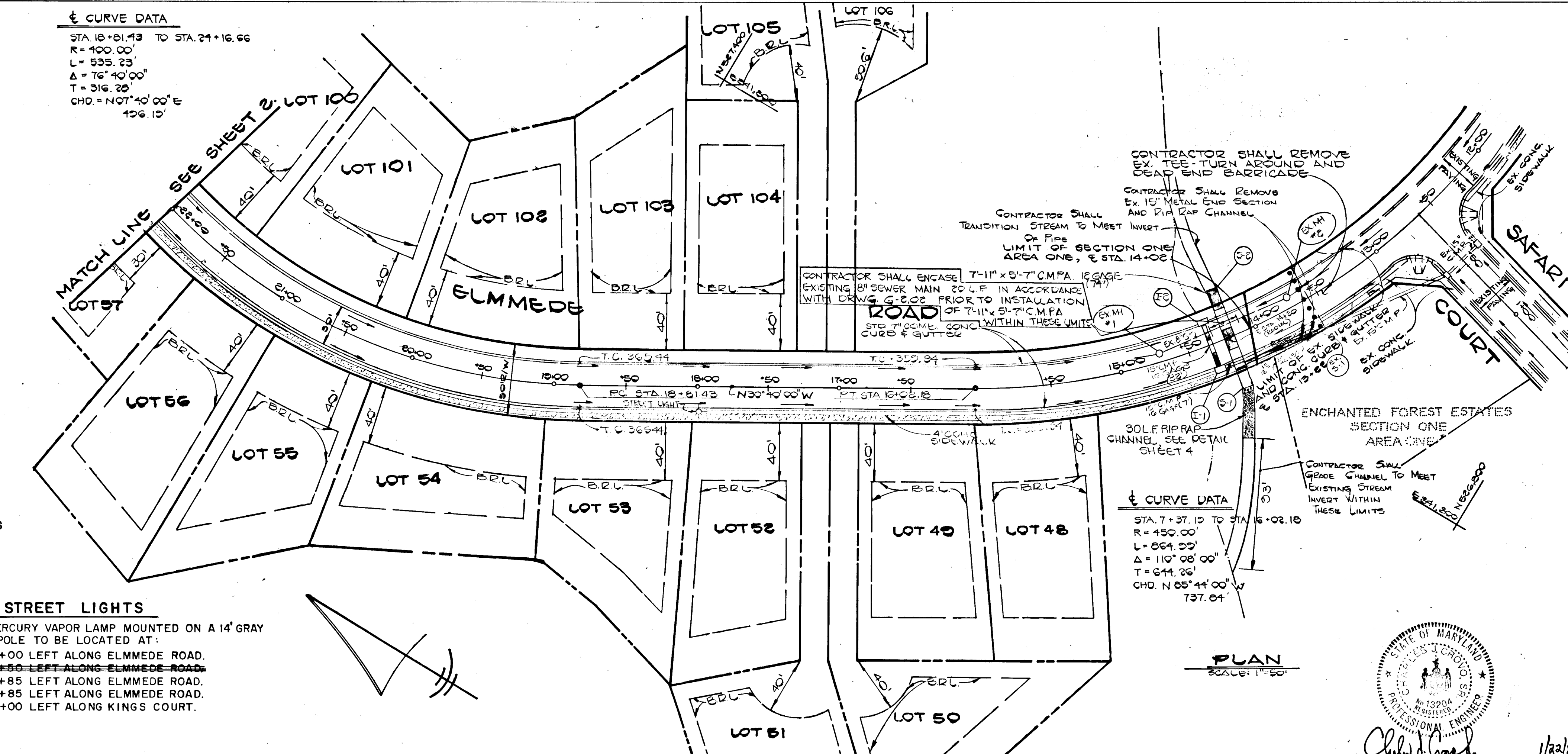
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
2. ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HRS IN ADVANCE OF ANY CONSTRUCTION.
3. STORM DRAINAGE TRENCHES WITHIN ROAD RIGHT-OF-WAYS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
4. ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
5. CONTRACTOR TO NOTIFY THE HOWARD COUNTY INSPECTION AND SURVEY DIVISION AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TELEPHONE 792-7272.
6. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE.
7. ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1978 EDITION.

APPROVED DEPARTMENT OF PUBLIC WORKS
 James J. Roney 4-21-87

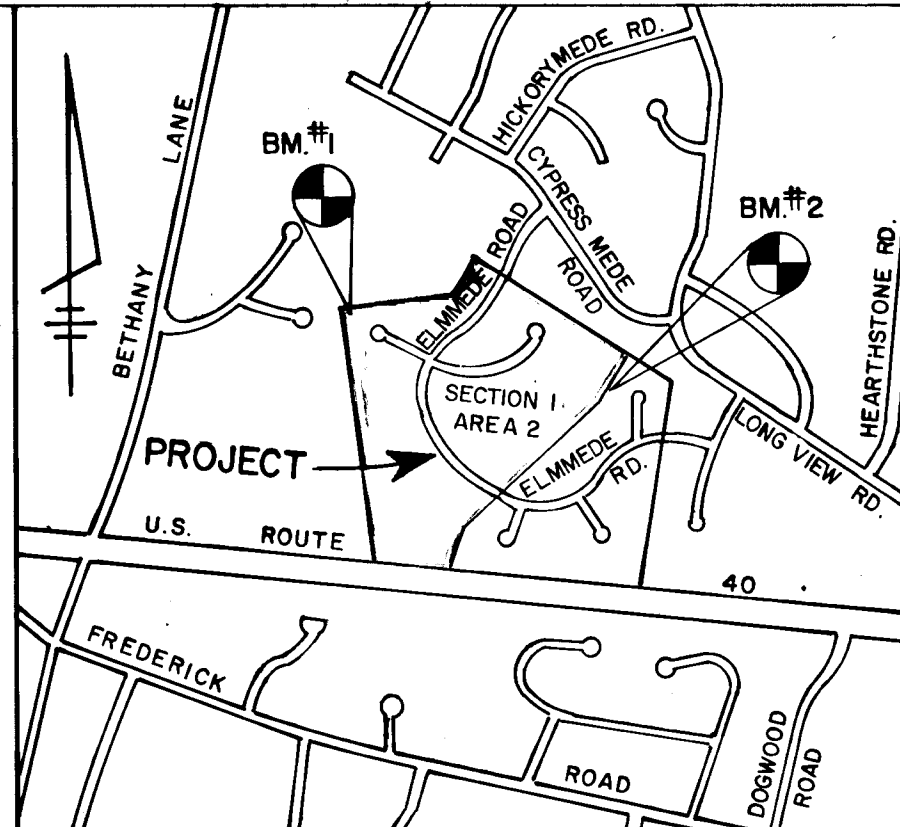
APPROVED OFFICE OF PLANNING AND ZONING
 John W. Mueselman 4-16-87

ε CURVE DATA
 STA. 18+01.43 TO STA. 21+16.66
 R = 100.00'
 L = 535.23'
 Δ = 76°40'00"
 T = 316.20'
 CHD = N 07°40'00" E 126.10'

ε CURVE DATA
 STA. 7+37.15 TO STA. 16+02.18
 R = 150.00'
 L = 664.00'
 Δ = 110°08'00"
 T = 644.20'
 CHD = N 85°44'00" W 737.01'



STREET LIGHTS
 175-WATT MERCURY VAPOR LAMP MOUNTED ON A 14' GRAY FIBERGLASS POLE TO BE LOCATED AT:
 1) ε STA. 18+00 LEFT ALONG ELMMEDE ROAD.
 2) ε STA. 21+50 LEFT ALONG ELMMEDE ROAD.
 3) ε STA. 22+85 LEFT ALONG ELMMEDE ROAD.
 4) ε STA. 27+85 LEFT ALONG ELMMEDE ROAD.
 5) ε STA. 5+00 LEFT ALONG KINGS COURT.



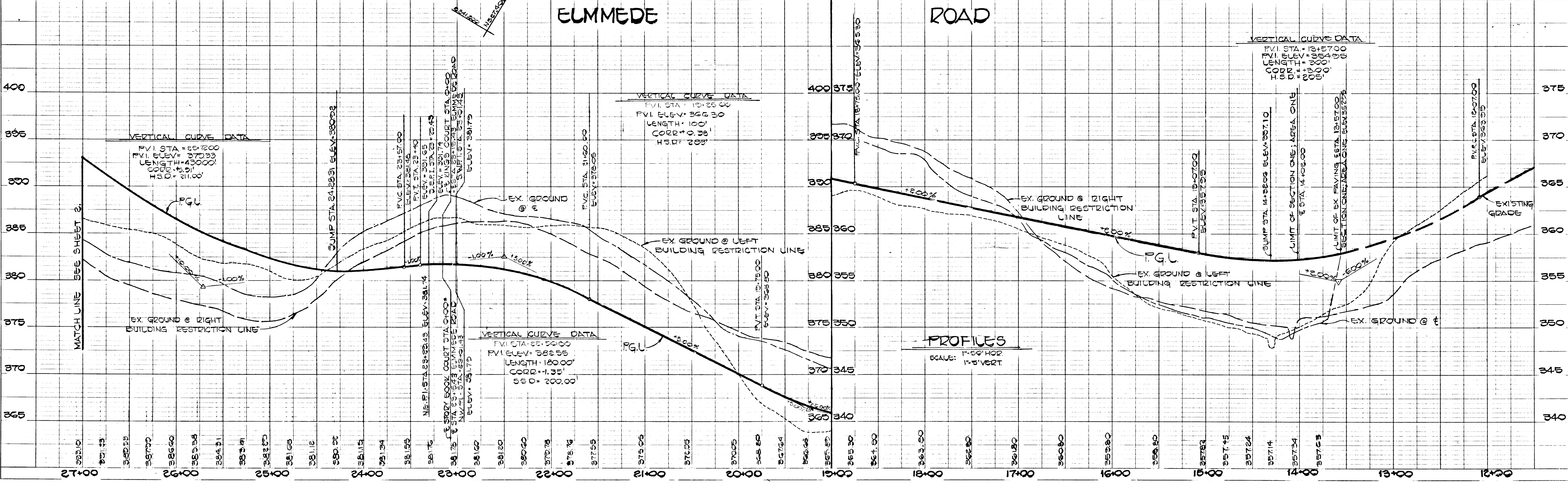
VICINITY MAP
 SCALE: 1"=1200'
BENCH MARKS

B.M.#1 ELEV. 363.77
 + CUT ON RIM OF EX. SANITARY MANHOLE #18 A & TRAVERSE STA. L.M. - 18
B.M.#2 ELEV. 365.00
 + CUT ON RIM OF EX. SANITARY MANHOLE #5016 & TRAVERSE STA. S-1

ENCHANTED FOREST ESTATES
 SECTION ONE AREA TWO
 2ND. ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

EELMEDE ROAD
PLAN AND PROFILE

OWNER AND DEVELOPER
 GREEN IN A JOINT VENTURE
 60 GORDON GREENSPUN
 SUITE 275 COMMERCE CENTRE EAST
 1777 REISTERSTOWN ROAD
 BALTIMORE, MD. 21208
 SCALE AS SHOWN DATE: DEC. 22, 1986 DWG. NO. 1 OF 8
 DES. R.C. SHUMAKER DRN. D. NEWTON CHK. C.J. CROVO SR.
 FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



#1205

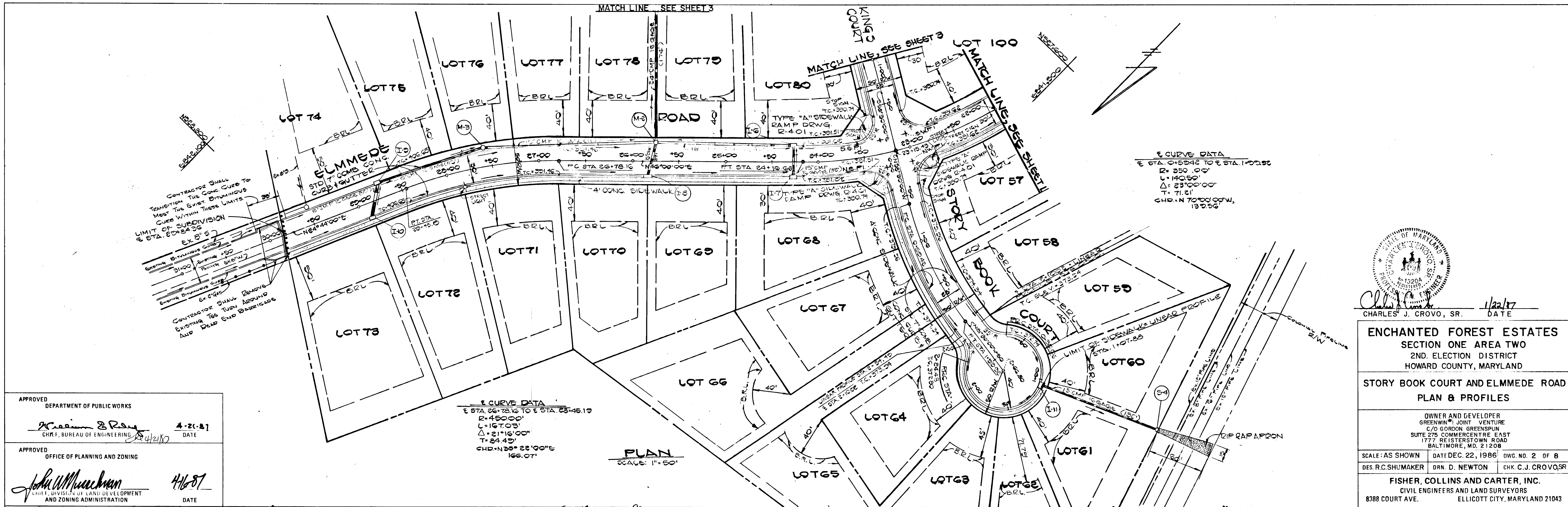
DATE _____ BY _____
 PLAN SURVEYED, PLOTTED, CHECKED, ALIGNED, & REVISIONS MADE BY RT. OF WAY CHECKED. NOTE BOOK NO. _____

APPROVED DEPARTMENT OF PUBLIC WORKS
William B. Rose 4-21-87
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED OFFICE OF PLANNING AND ZONING
John W. Mueckman 4-16-87
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

DATE _____ BY _____
 PROFILE SURVEYED, PLOTTED, CHECKED, ALIGNED, & REVISIONS MADE BY STRUCTURE NOTATIONS CHYD. NOTE BOOK NO. _____

#1205



STATE OF MARYLAND
 PUBLIC ENGINEER
 CHARLES J. CROVO, SR. 1/22/87 DATE

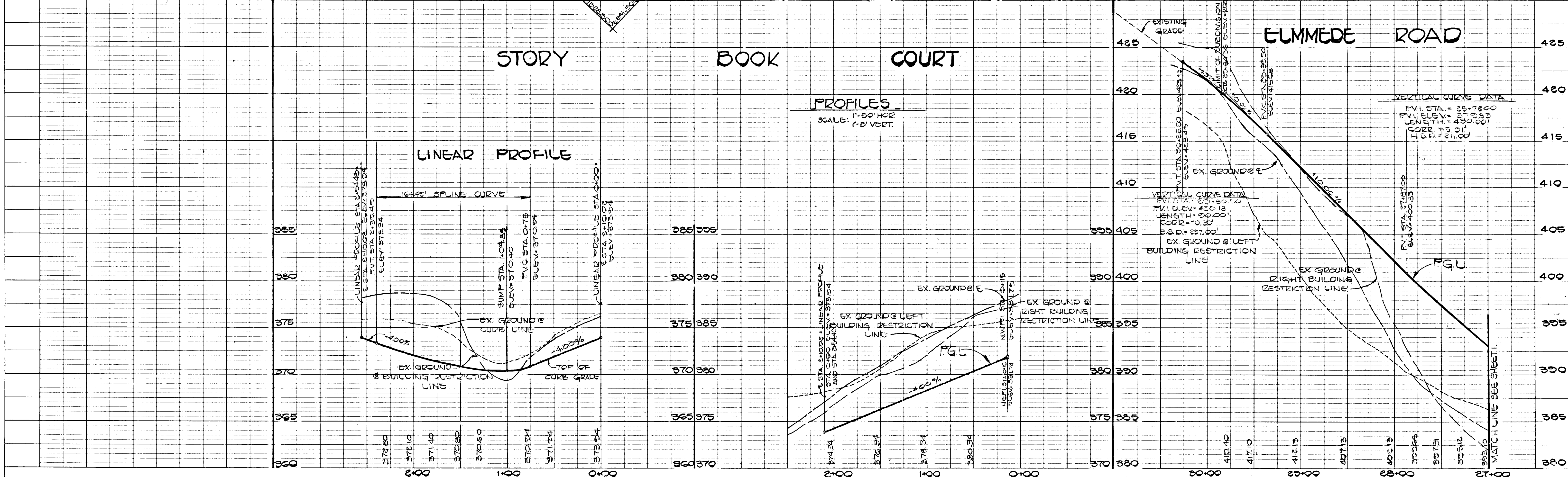
ENCHANTED FOREST ESTATES
 SECTION ONE AREA TWO
 2ND. ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

STORY BOOK COURT AND ELMMEDE ROAD
 PLAN & PROFILES

OWNER AND DEVELOPER
 GREENWIN* JOINT VENTURE
 670 GORDON GREENSPUN
 SUITE 275 COMMERCE EAST
 1777 REISTERSTOWN ROAD
 BALTIMORE, MD. 21208

SCALE: AS SHOWN DATE DEC. 22, 1986 DWG. NO. 2 OF 8
 DES. R.C. SHUMAKER DRN. D. NEWTON CHK. C.J. CROVO, SR.

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



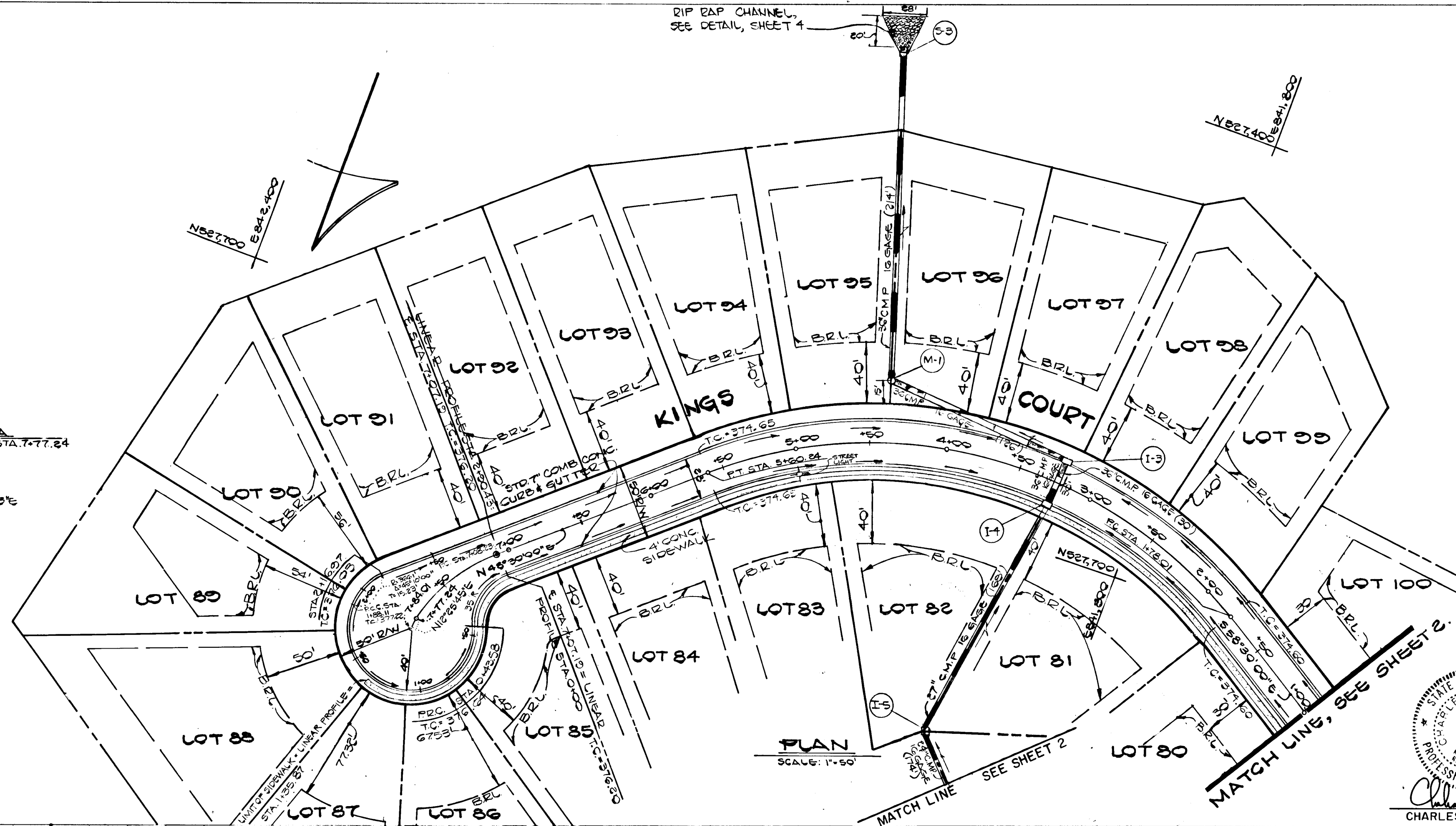
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BY	
PLANNED	
ALIGNED	
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NO.	

APPROVED	
DEPARTMENT OF PUBLIC WORKS	
DATE	1-21-87
APPROVED	
OFFICE OF PLANNING AND ZONING	
DATE	1-16-87

DATE	
BY	
PROFILING	
GRADES CHECKED	
NOTED	
NO.	

1 CURVE DATA
 STA 7+08.83 TO STA 7+77.84
 R=100.00'
 L=600.01'
 Δ=36°04'15"
 T=35.65'
 CHD=N30°27'53"E
 67.85'

2 CURVE DATA
 STA 1+78.01 TO STA 5+60.84
 R=300.00'
 L=338.23'
 Δ=73°00'00"
 T=221.59'
 CHD=N68°00'00"E
 365.85'



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

KINGS COURT
PLAN & PROFILES

OWNER AND DEVELOPER
 GREENWIN I JOINT VENTURE
 C/O GORDON GREENSPUN
 SUITE 275 COMMERCIAL EAST
 1777 REISTERSTOWN ROAD
 BALTIMORE, MD 21208

SCALE: AS SHOWN DATE: DEC. 22, 1986 DWG. NO. 3 OF 8
 DES. R.C. SHUMAKER DRN. D. NEWTON CHK. C.J. GROVO SR.

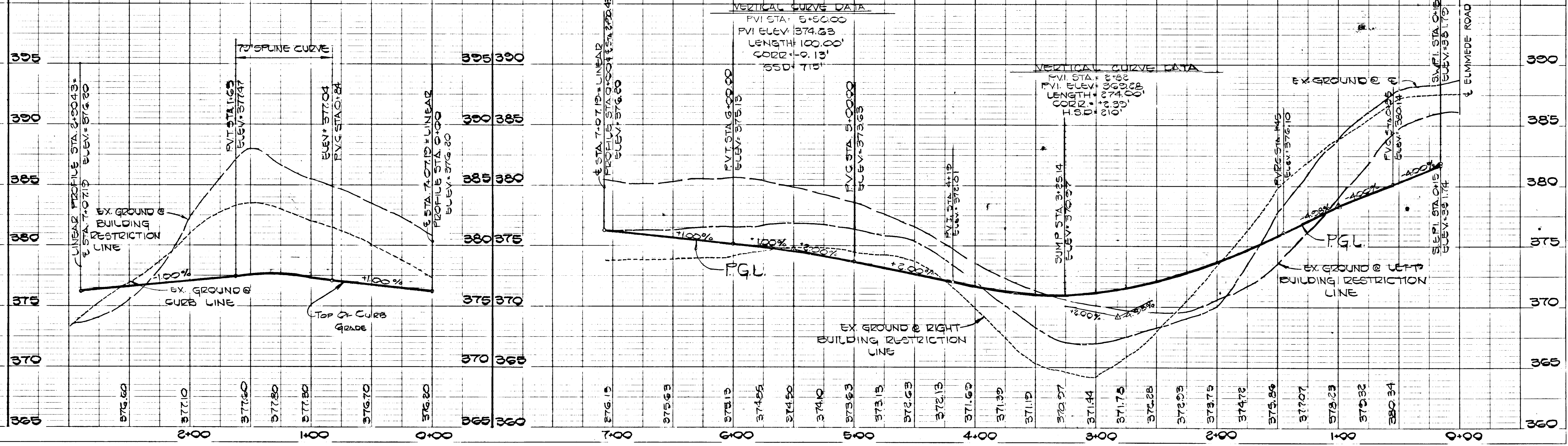
FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 CHARLES J. GROVO SR.
 DATE: 1/22/87

KINGS COURT

PROFILES
 SCALE: 1"=50' VERT.

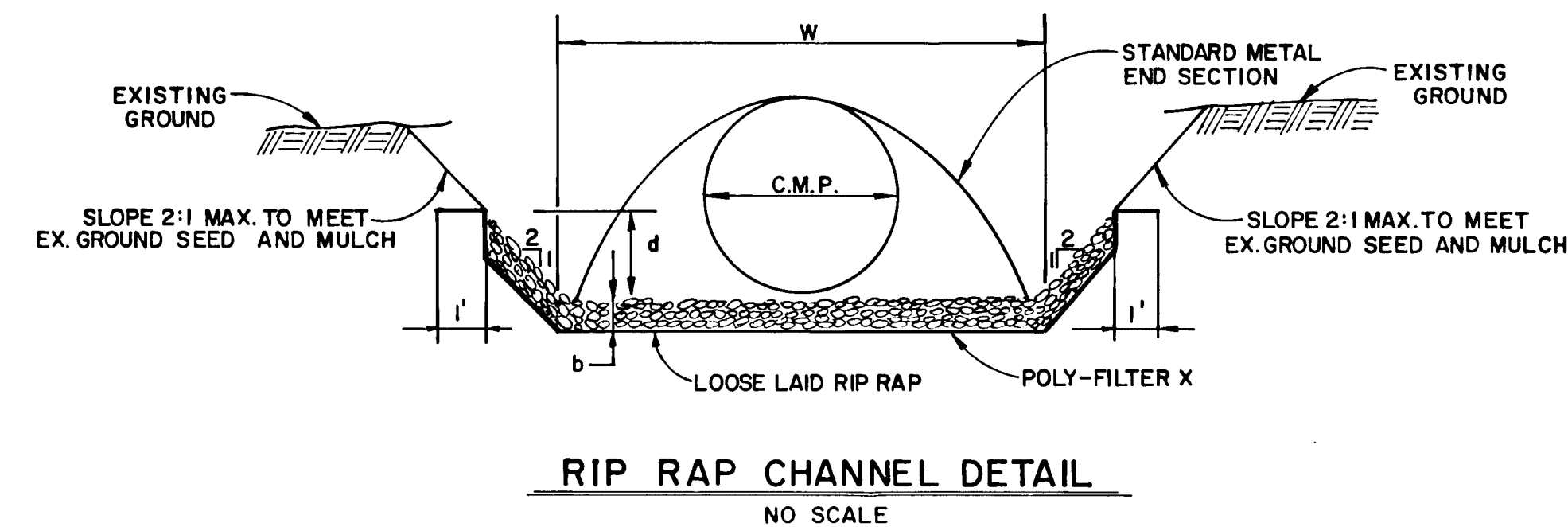
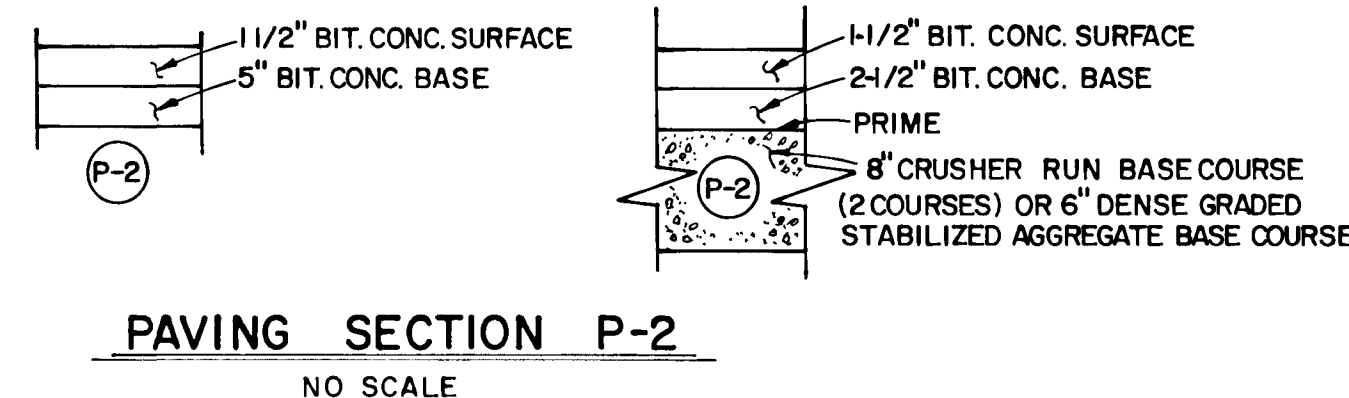
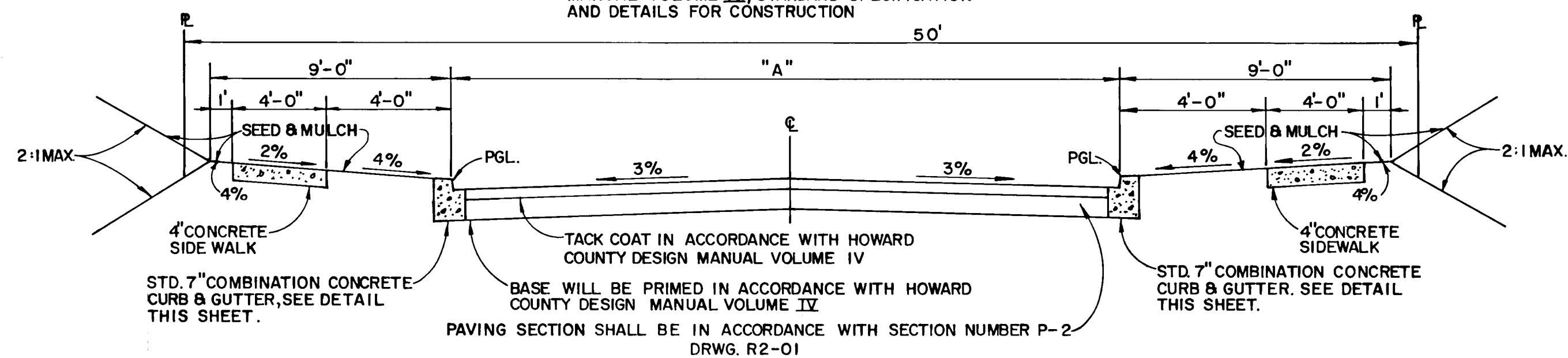
LINEAR PROFILE



#1205

TYPICAL ROADWAY SECTION

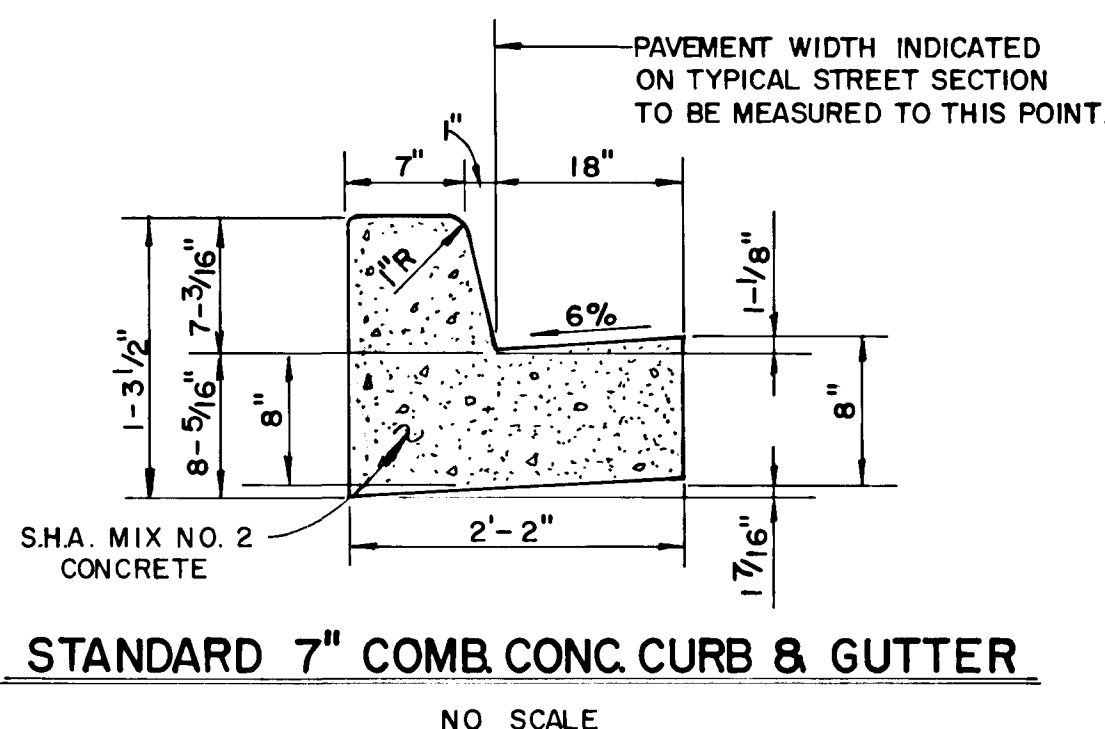
ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATION AND DETAILS FOR CONSTRUCTION



ROAD NAME	CLASSIFICATION	DESIGN SPEED	ZONING	C. STA. LIMITS	"A"
ELMMEDE ROAD	LOCAL	30 M.P.H.	R-20	13+22 TO 29+84.36	30'
STORY BOOK COURT	CUL DE SAC	25 M.P.H.	R-20	0+00 TO 2+10.02	28'
KINGS COURT	CUL DE SAC	30 M.P.H.	R-20	0+00 TO 7+07.19	28'

RIP RAP CHANNEL DESIGN DATA														
STRUCTURE	A ¹	P ¹	R	R 2/3	S	S 1/2	n	Q cfs.	V fps	d ¹	W ¹	RIP RAP SIZE		
												d 50	d MAX.	b
S-1	56.52	24.46	2.31	1.747	50%	0.0707	.04	260.63	4.59	3.68	8	9"	14"	20"
S-3	13.67	13.96	0.979	0.986	50%	0.0707	.04	35.41	2.59	1.26	8.33	9"	14"	20"

*C₁₀₀

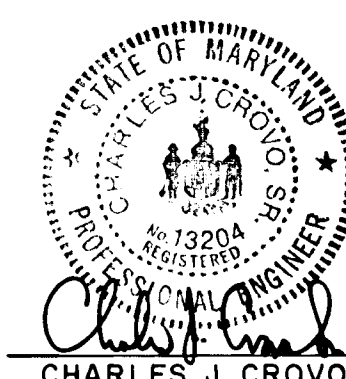


ENCHANTED FOREST ESTATES
SECTION ONE AREA TWO
2ND. ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

ROAD SECTIONS, DETAILS

OWNER AND DEVELOPER
GREENWIN #1 JOINT VENTURE
C/O GORDON GREENSPAN
SUITE 275 COMMERCE CENTRE EAST
1777 REISTERSTOWN ROAD
BALTIMORE, MD. 21208

SCALE AS SHOWN DATE DEC. 22, 1986 DWG. NO. 4 OF 8
DES. R.C. SHUMAKER DRN. J. O'DONNELLY CHK. C. CROVO SR.
FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



[Handwritten signatures and dates]
DATE 1/16/87

APPROVED
DEPARTMENT OF PUBLIC WORKS
[Signature] 4-21-87
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED
OFFICE OF PLANNING AND ZONING
[Signature] 4-16-87
AND ZONING ADMINISTRATION DATE

PLAN
DATE
BY
SURVEYED
ALIGNED
CHECKED
NOTE BOOK NO.

PROFILE
DATE
BY
SURVEYED
GRADES CHECKED
NOTE BOOK NO.

#1205

PERMANENT SEEDING NOTES:
 APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL, BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- 1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQUARE 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 (2 LBS/1000 SQ.FT.).
- 2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (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 60 LBS PER ACRE (1.4 LBS/1000 SQ.FT.) OF KENTUCKY 51 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 UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GALLONS PER ACRE (6 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 SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES:
 APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED BY A SHORT-TERM VEGETATIVE COVER IS NEEDED.

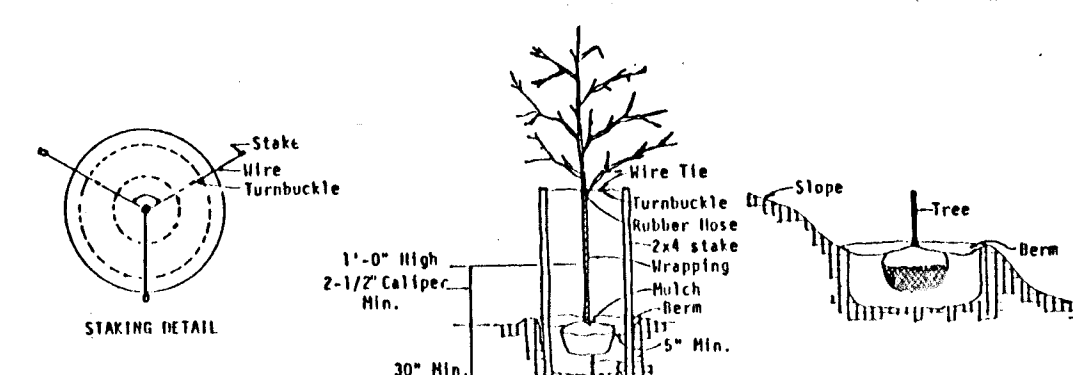
SEEDING PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.).

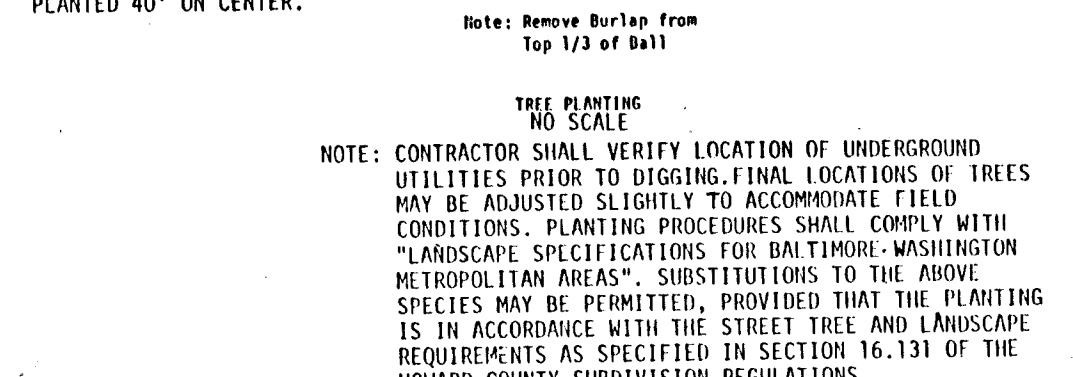
SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ.FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT 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 UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GAL PER ACRE (5 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.



NOTE: CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITIES PRIOR TO DIGGING. FINAL LOCATIONS OF TREES MAY BE ADJUSTED SLIGHTLY TO ACCOMMODATE FIELD CONDITIONS. PLANTING PROCEDURES SHALL COMPLY WITH "LANDSCAPE SPECIFICATIONS FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS". SUBSTITUTIONS TO THE ABOVE SPECIES SHALL BE PERMITTED, PROVIDED THAT THE PLANTING IS IN ACCORDANCE WITH THE STREET TREE AND LANDSCAPE REQUIREMENTS AS SPECIFIED IN SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS.



1. Attach a continuous piece of wire mesh (30" min. width by 2' length plus 1/2" to the 2" x 4" wire connecting throat length plus 1/2") as shown on the standard drawing.

2. Place a piece of approved filter cloth (40-85 mesh) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" wire.

3. Securely nail the 2" x 4" wire to 8" long vertical spacers to be located between the wire and inlet face (max. 6" apart).

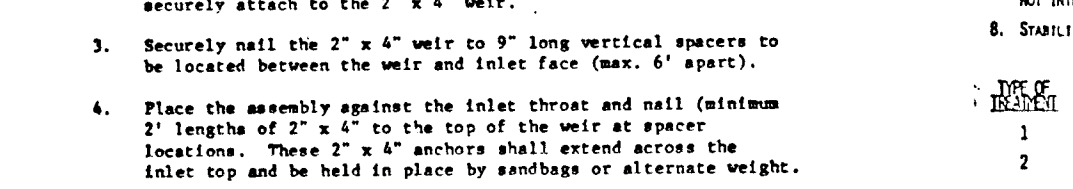
4. Place the assembly against the inlet throat and wall (minimum 2" length of 2" x 4" to the top of the wire at wall connections). These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.

5. The assembly shall be placed so that the end spacers are a minimum 1" beyond both ends of the throat opening.

6. 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 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.

7. This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.

8. Assume that storm flow does not bypass inlet by installing temporary earth or asphalt dike directing flow into inlet.



1. Stone Size - Use 3" stone, or less than 3" recycled concrete equivalent.

2. Length - As required, but not less than 50 feet (except on a single residential lot where a 30 foot minimum length applies).

3. Thickness - Not less than six (6) inches.

4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.

5. The stone shall be excavated or swept to lime, gravel, and cross section as required to meet the criteria specified herein and be free of rock protrusions or other irregularities which will impede flow.

6. Fills shall be compacted by earth moving equipment.

7. All earth exposed and not needed on construction shall be placed so that it will not interfere with the function of the stone.

8. Stabilization shall be as per the curb detail.

9. Periodic inspection and needed maintenance shall be provided after each rain.

10. Periodic inspection and needed maintenance shall be provided after each rain.

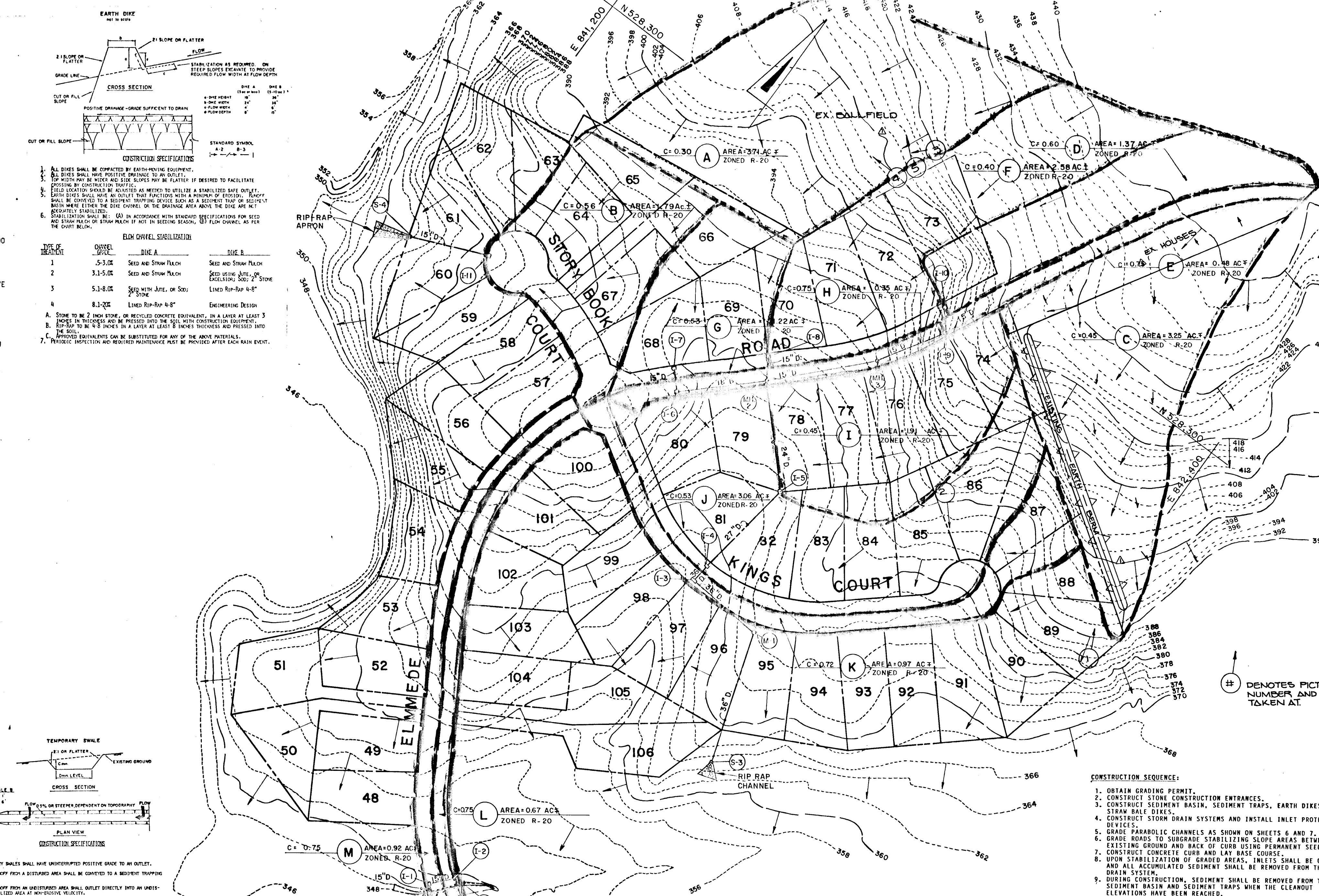
11. Periodic inspection and needed maintenance shall be provided after each rain.

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DRAINAGE AREA MAP
 SCALE: 1" = 100'

1. All temporary shall have unobstructed positive grade to an outlet.

2. Inverted sumps from a disturbed area shall be connected to a sediment trapping device.

3. Diverted runoff from an undisturbed area shall outlet directly into an unobstructed stabilized area at non-erosive velocity.

4. All trees, shrubs, plantings, and other construction materials shall be protected and disposed of as required with the proper handling of the soil.

5. The shall shall be excavated or swept to lime, gravel, and cross section as required to meet the criteria specified herein and be free of rock protrusions or other irregularities which will impede flow.

6. Fills shall be compacted by earth moving equipment.

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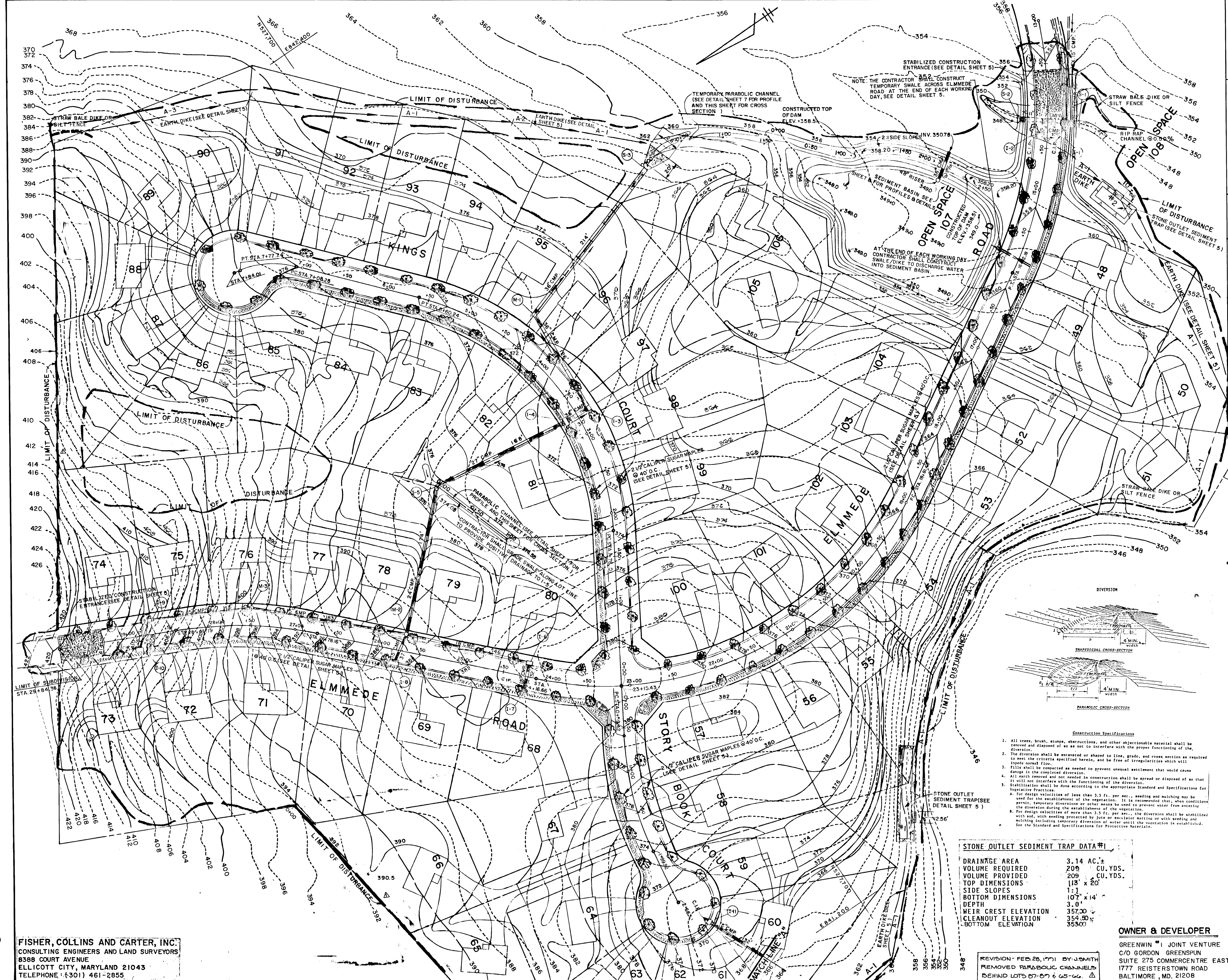
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ENGINEER'S CERTIFICATE
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature of Engineer: *Charles J. Crovo, Sr.* DATE: 1/22/87

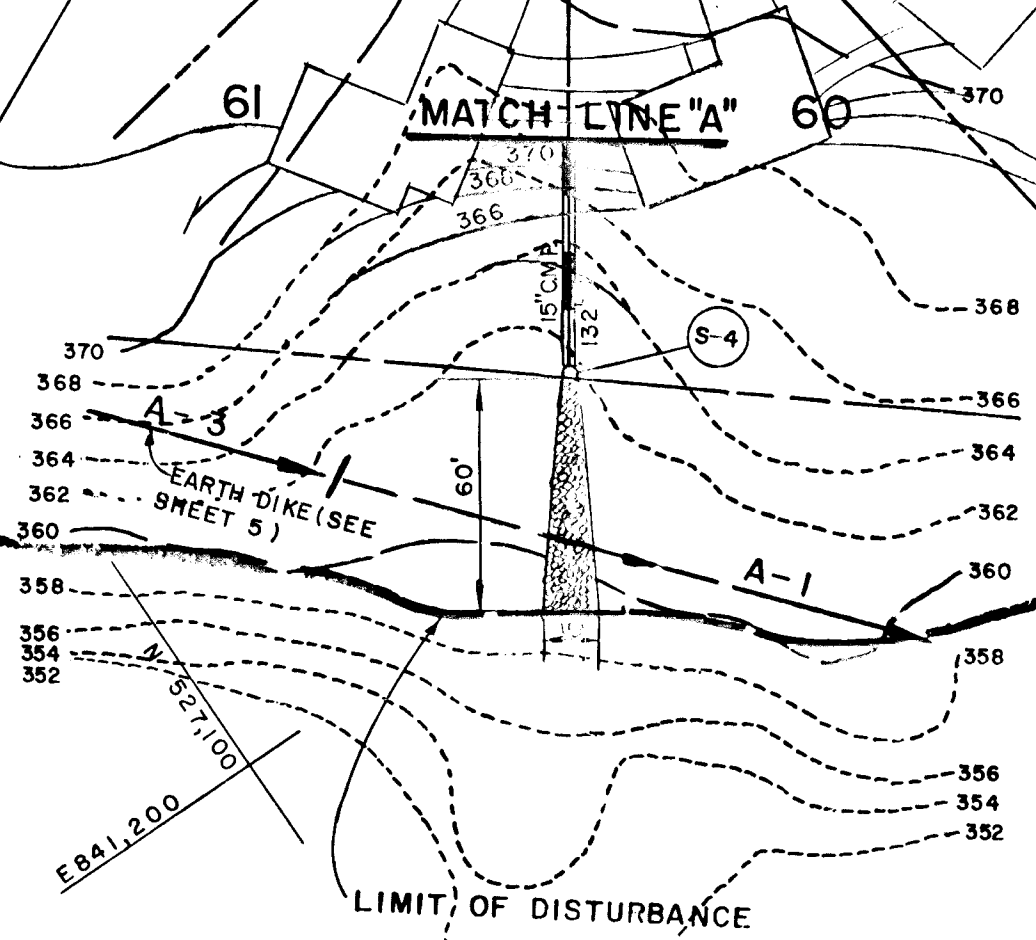
DEVELOPER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL 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 of Developer: *John Greenway* DATE: 1/22/87

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 U.S. SOIL CONSERVATION SERVICE DATE: 4-15-87

APPROVED: *[Signature]* DATE: 4-15-87
 DISTRICT: HOWARD SOIL CONSERVATION DISTRICT

APPROVED: DEPARTMENT OF PUBLIC WORKS.
[Signature] DATE: 4-21-87
 CHIEF, BUREAU OF ENGINEERING

APPROVED: OFFICE OF PLANNING AND ZONING
[Signature] DATE: 4-16-87
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION



STONE OUTLET SEDIMENT TRAP DATA #2

DRAINAGE AREA	1.03 AC. ±
VOLUME REQUIRED	1854 CU. FT.
VOLUME PROVIDED	1856 CU. FT.
TOP DIMENSIONS	23' x 46'
BOTTOM DIMENSIONS	19' x 42'
SIDE SLOPES	1:1
DEPTH	2.0'
WEIR CREST ELEVATION	351.00
BOTTOM ELEVATION	348.00
CLEANOUT ELEVATION	349.00

- 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 diversion.
 - The diversion shall be excavated or shaped to line, grade, and cross section as required to meet the criteria specified herein, and be free of irregularities which will impede normal flow.
 - 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 diversion.
 - Stabilization shall be done according to the appropriate Standard and Specifications for Vegetative Practices.
 - For design velocities of less than 3.5 ft. per sec., seeding and mulching may be permitted; temporary diversions or other means be used to prevent water from entering the diversion during the establishment of the vegetation.
 - For design velocities of more than 3.5 ft. per sec., the diversion shall be stabilized with sod, with seeding protected by silt or excelsior matting or with seeding and mulching including temporary diversion of water until the vegetation is well-established. See the Standard and Specifications for Protective Materials.

STONE OUTLET SEDIMENT TRAP DATA #1

DRAINAGE AREA	3.14 AC. ±
VOLUME REQUIRED	209 CU. YDS.
VOLUME PROVIDED	209 CU. YDS.
TOP DIMENSIONS	113' x 20'
SIDE SLOPES	1:1
DEPTH	107' x 14'
WEIR CREST ELEVATION	357.00
CLEANOUT ELEVATION	354.50
BOTTOM ELEVATION	353.00

OWNER & DEVELOPER
 GREENWIN #1 JOINT VENTURE
 C/O GORDON GREENSPUN
 SUITE 275 COMMERCENTRE EAST
 1777 REISTERSTOWN ROAD
 BALTIMORE, MD. 21208

STREET TREE, GRADING AND SEDIMENT CONTROL PLAN
ENCHANTED FOREST ESTATES
 SECTION ONE AREA TWO
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE: 1" = 50' DEC. 22, 1986
 SHEET 6 OF 8

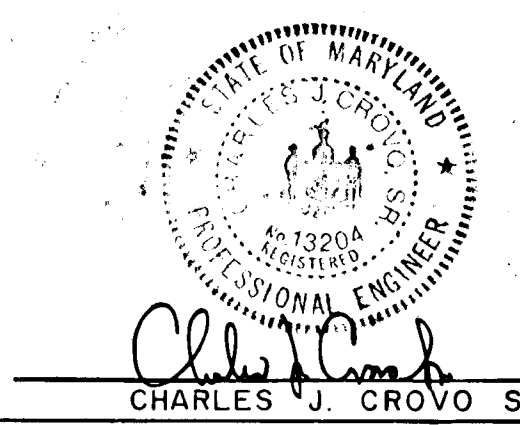
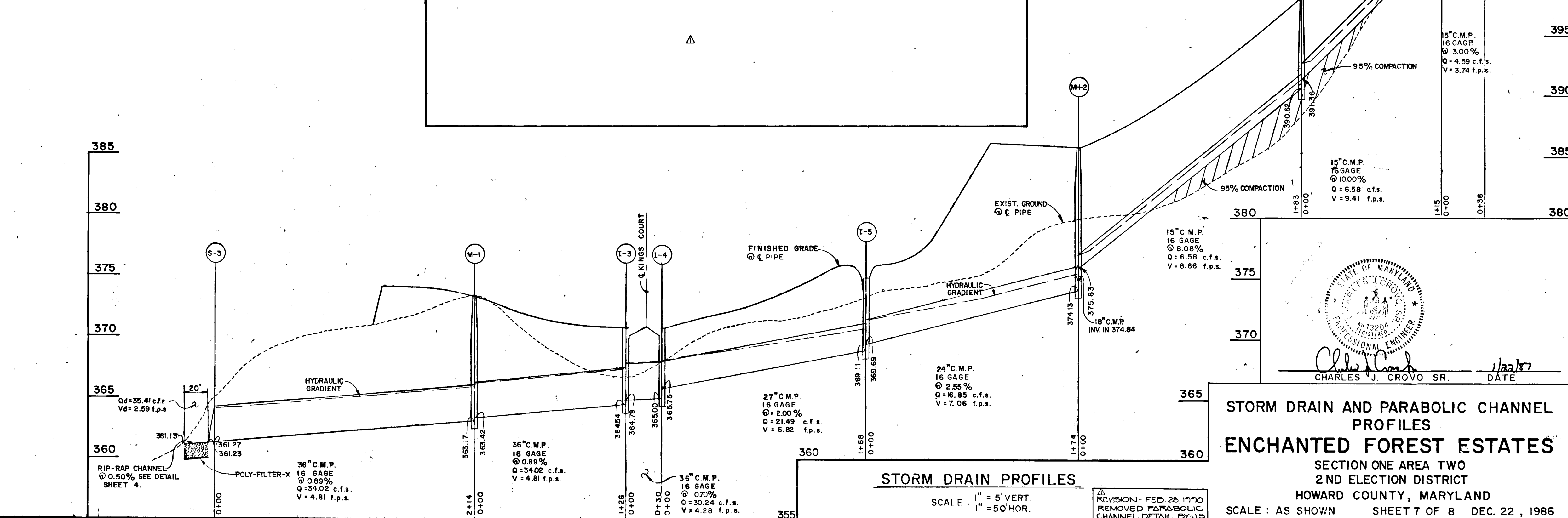
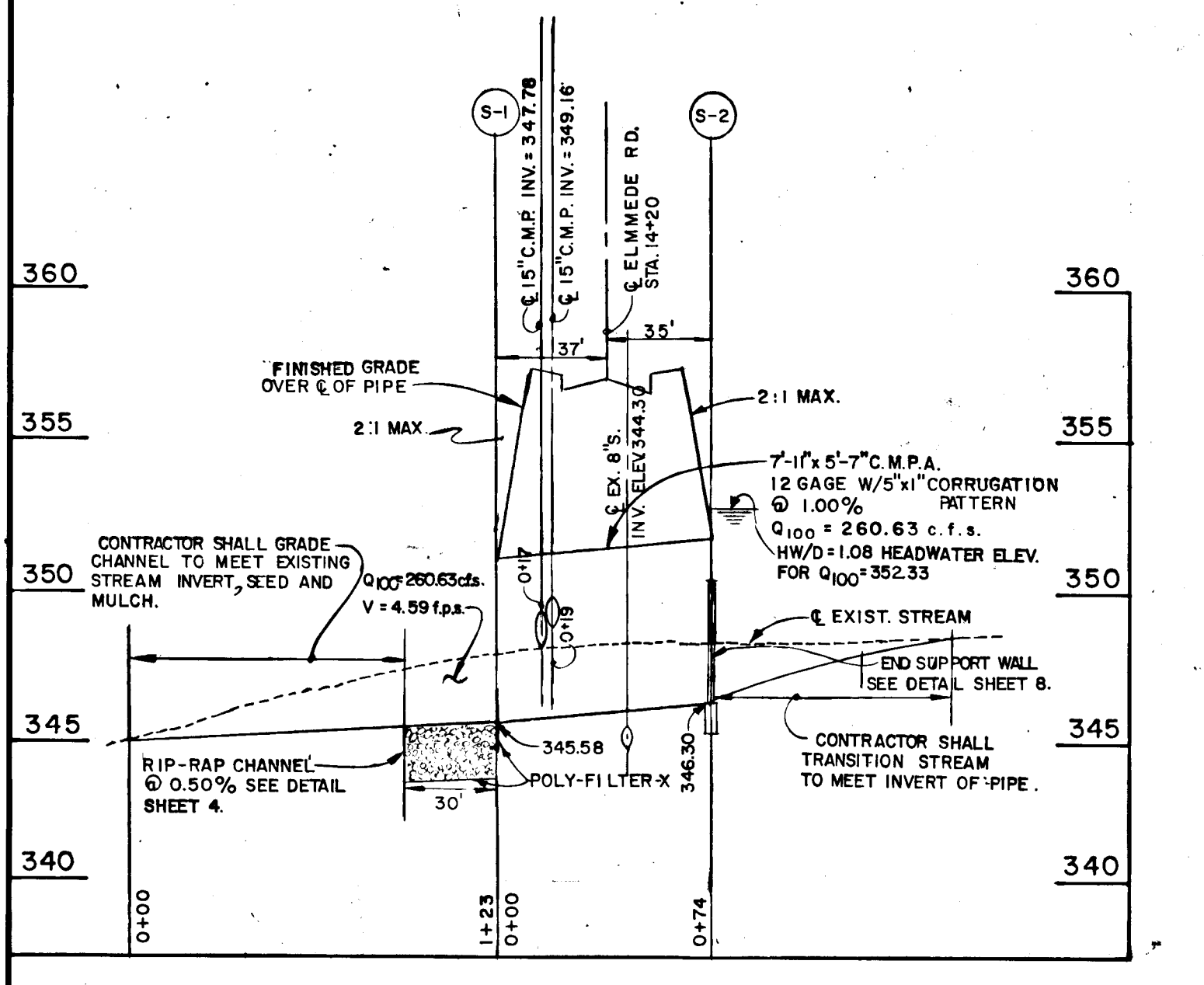
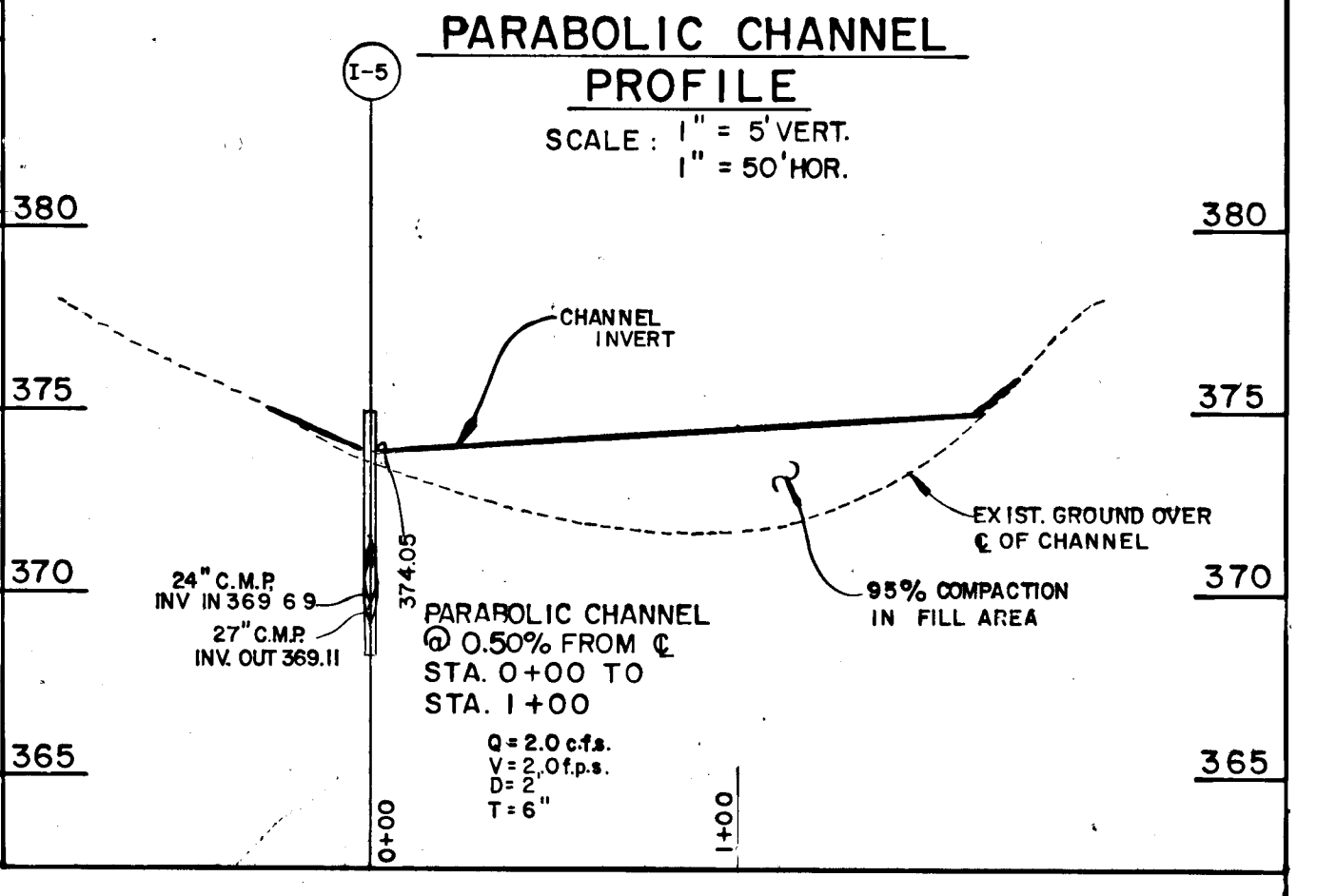
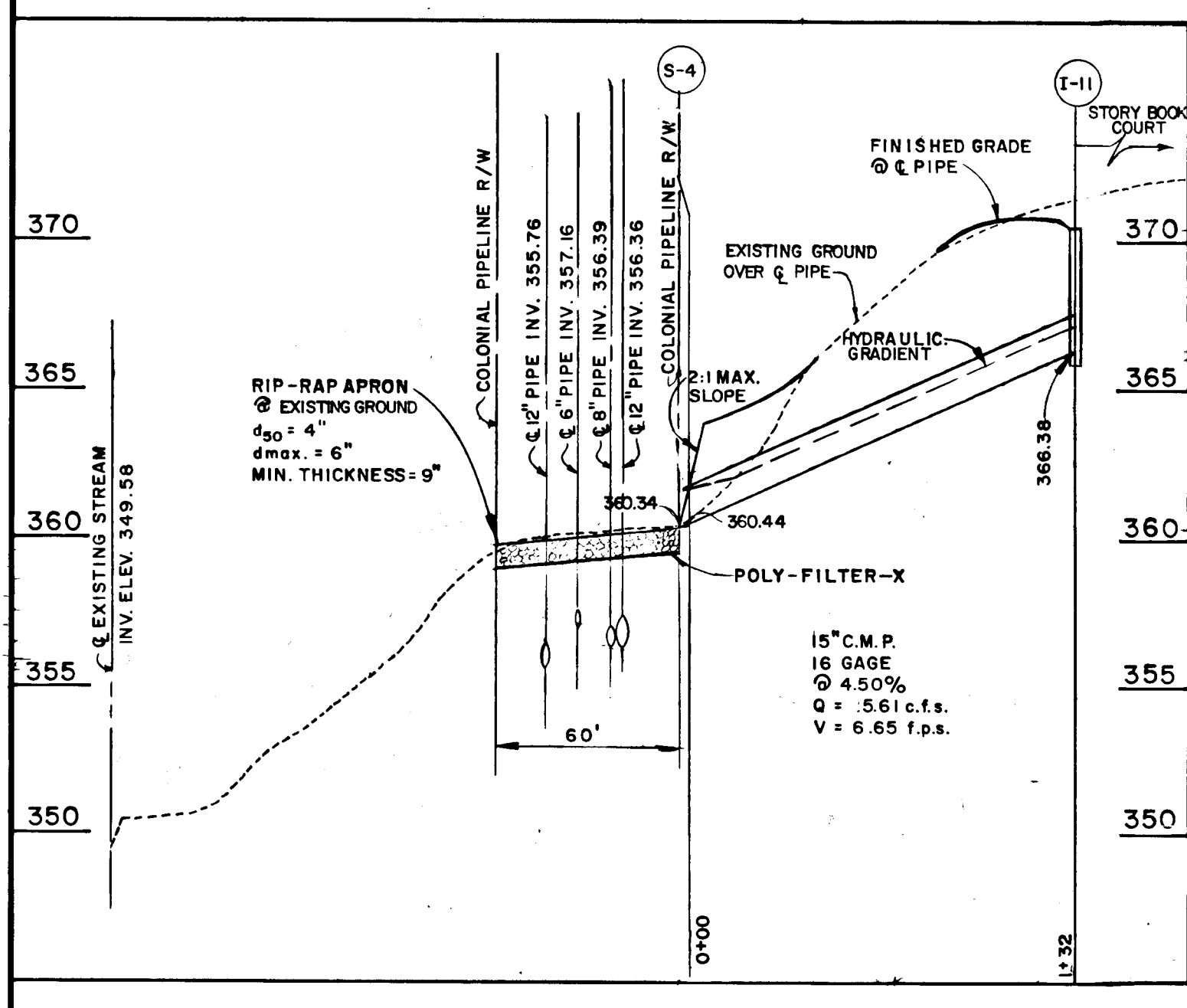
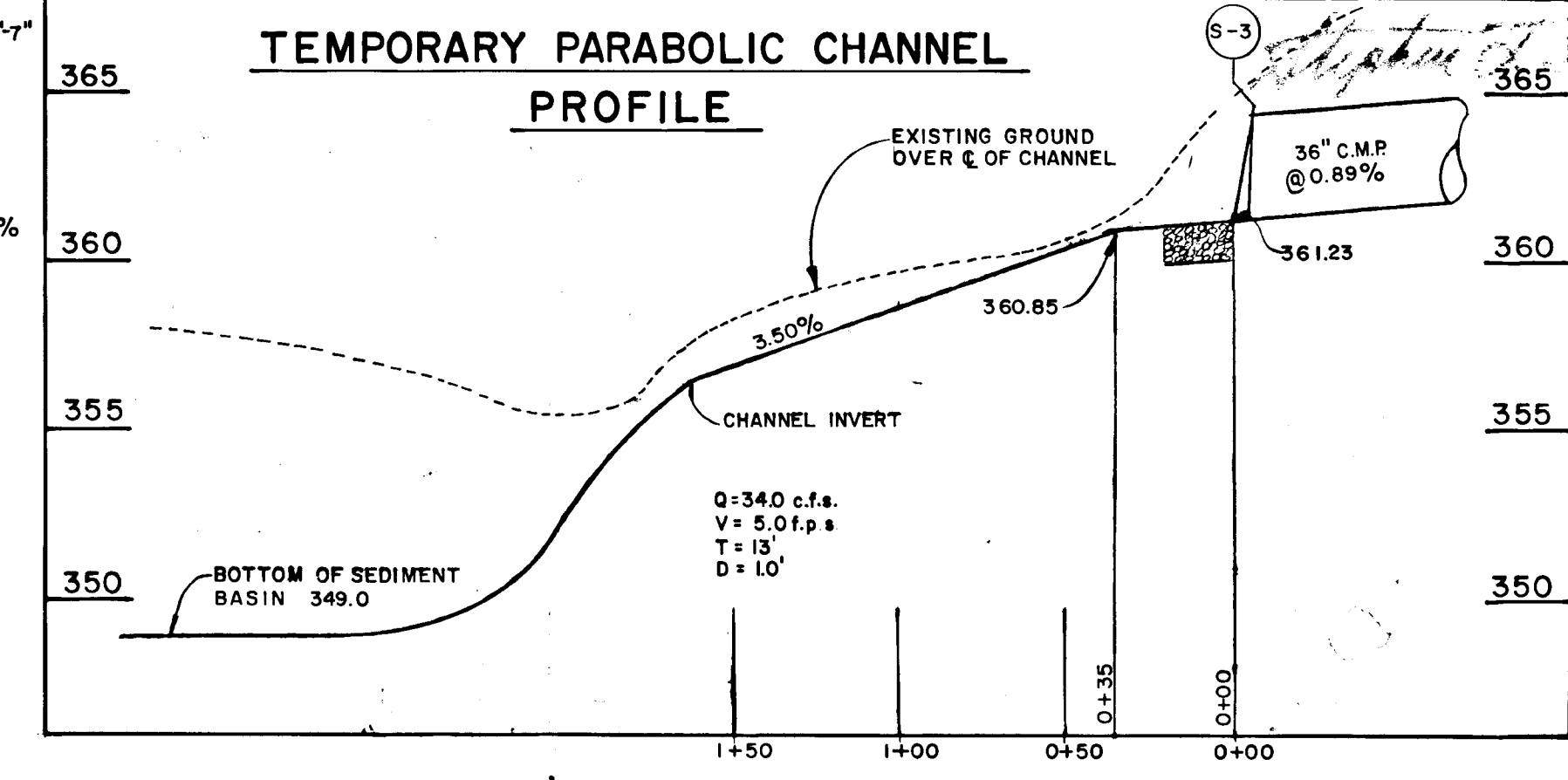
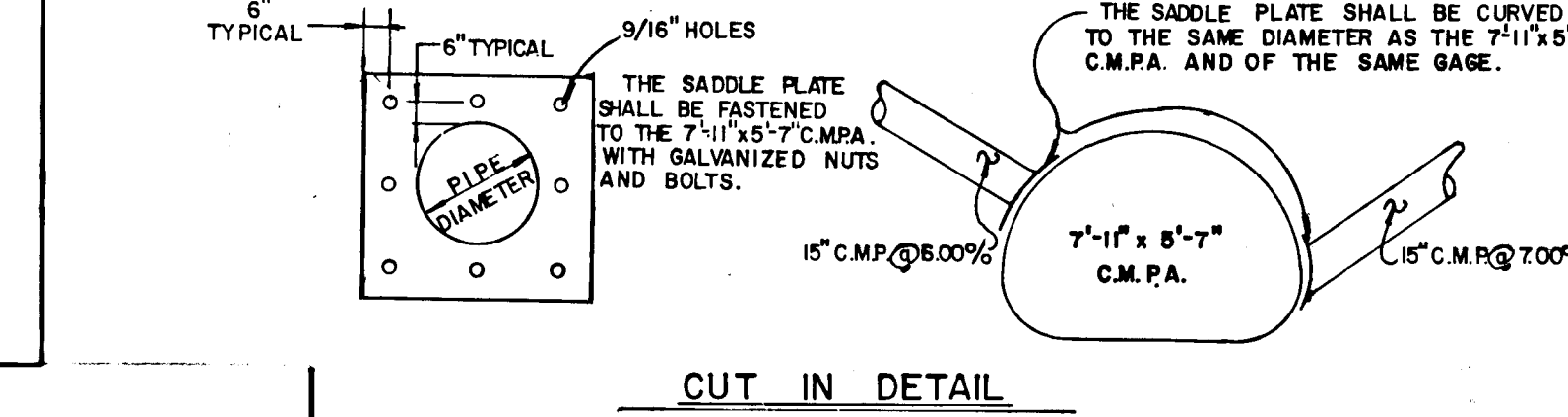
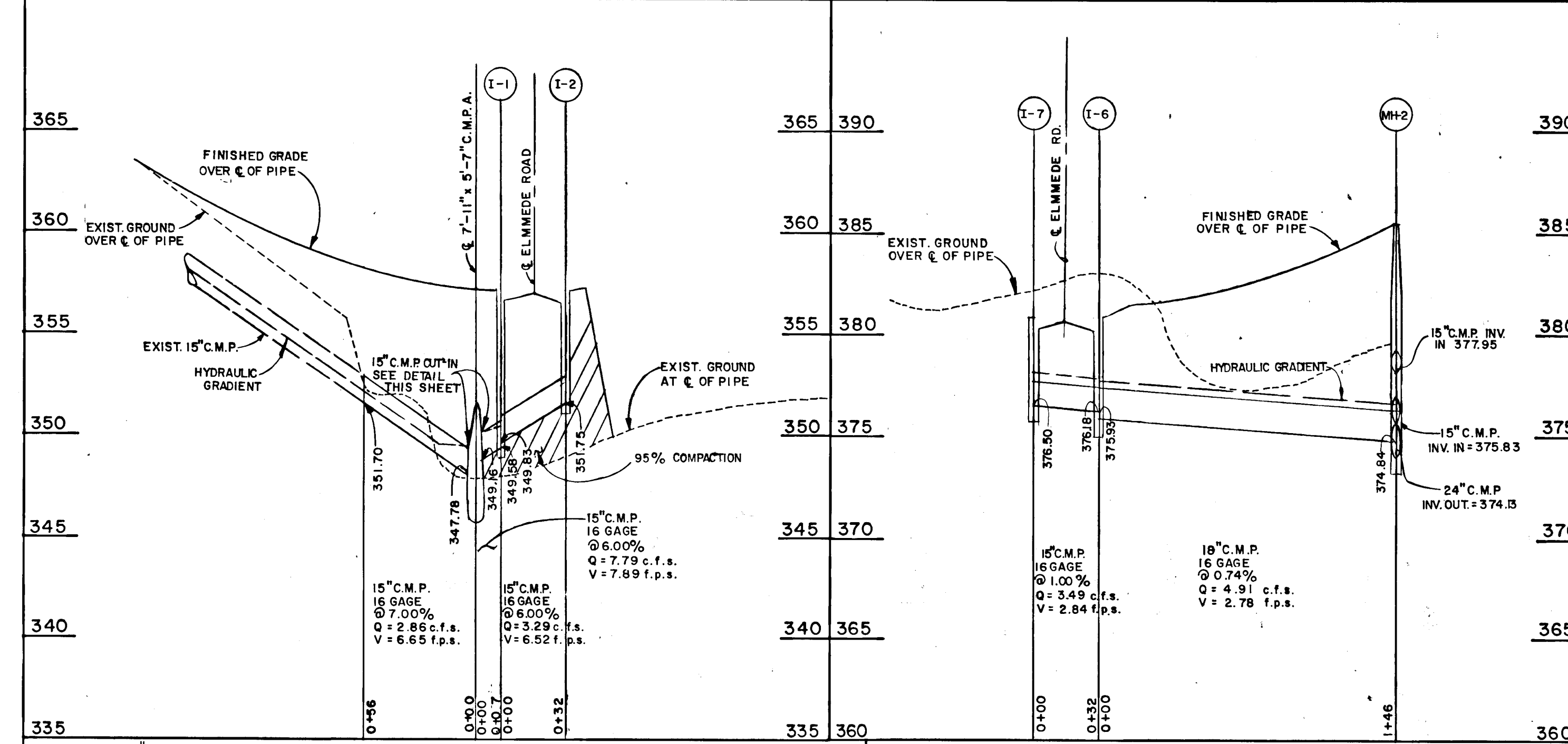
FISHER, COLLINS AND CARTER, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043
 TELEPHONE: (301) 461-2855

REVISION - FEB. 26, 1981 BY JDMTH
 REMOVED PARABOLIC CHANNELS
 BEHIND LOTS 67-69 & 65-66. Δ

#1205

APPROVED: DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF ENGINEERING
 DATE 4-21-87

APPROVED: OFFICE OF PLANNING AND ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
 DATE 4-15-87

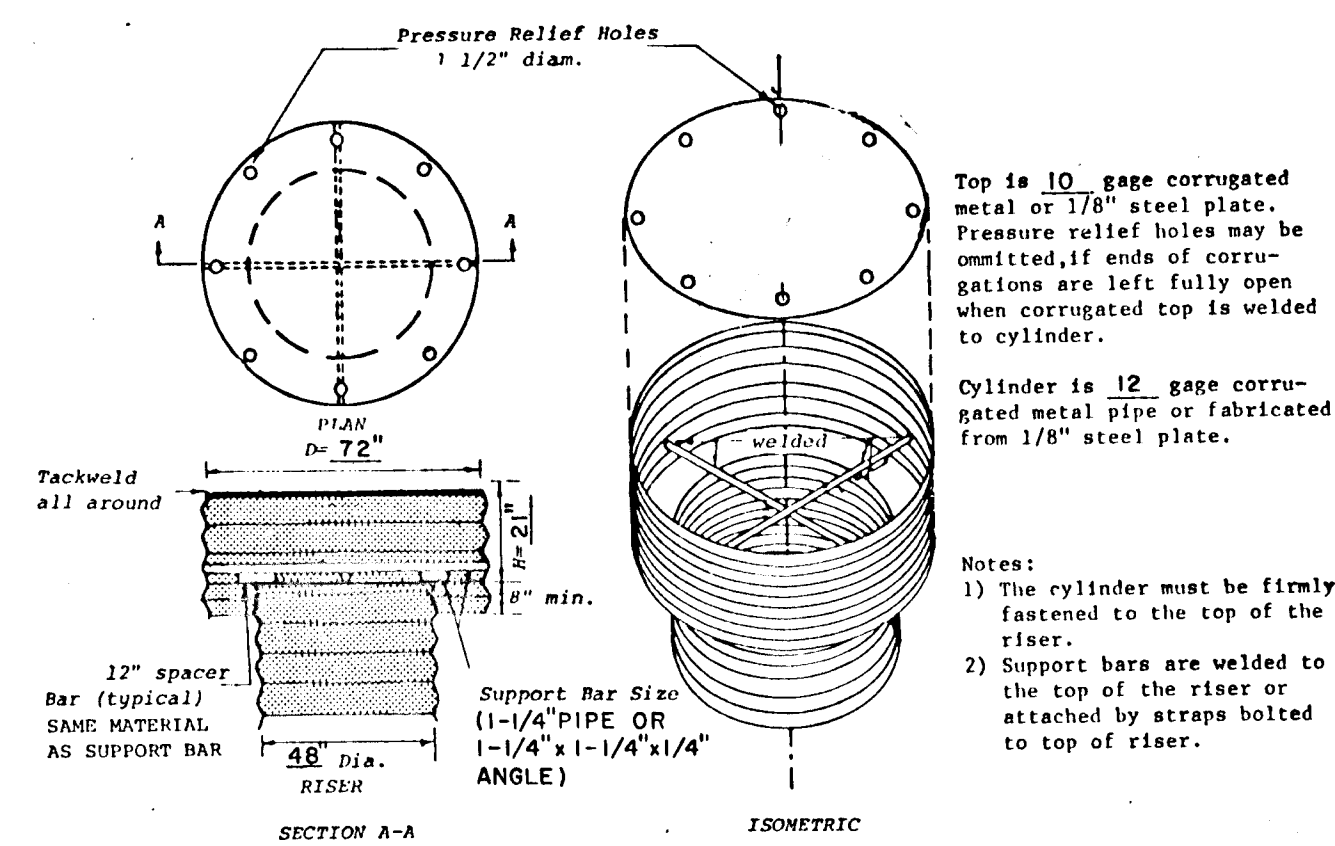


STORM DRAIN AND PARABOLIC CHANNEL PROFILES
 ENCHANTED FOREST ESTATES
 SECTION ONE AREA TWO
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN SHEET 7 OF 8 DEC. 22, 1986

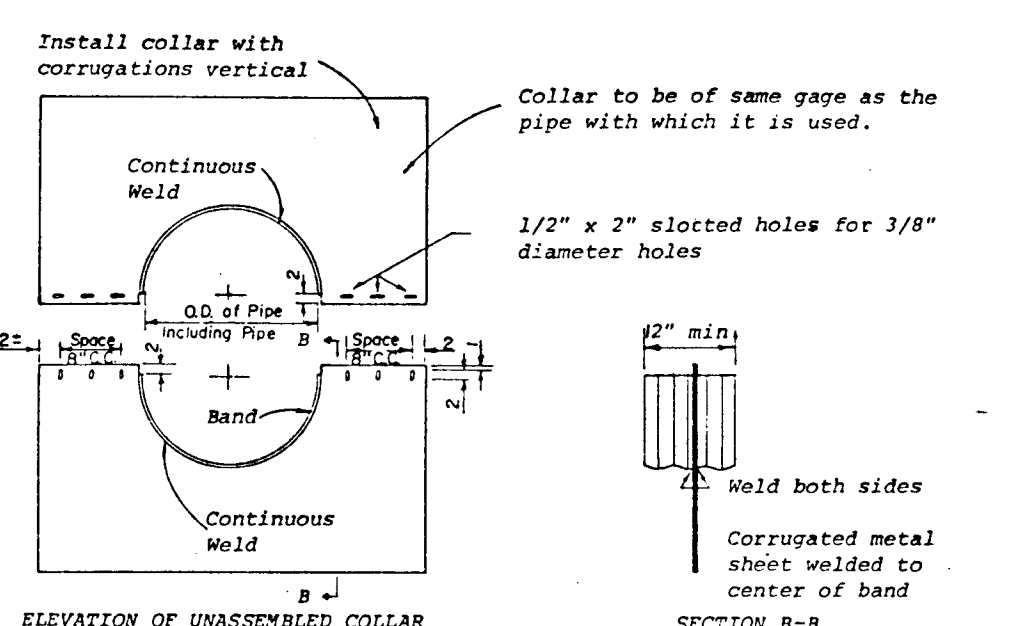
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OWNER & DEVELOPER
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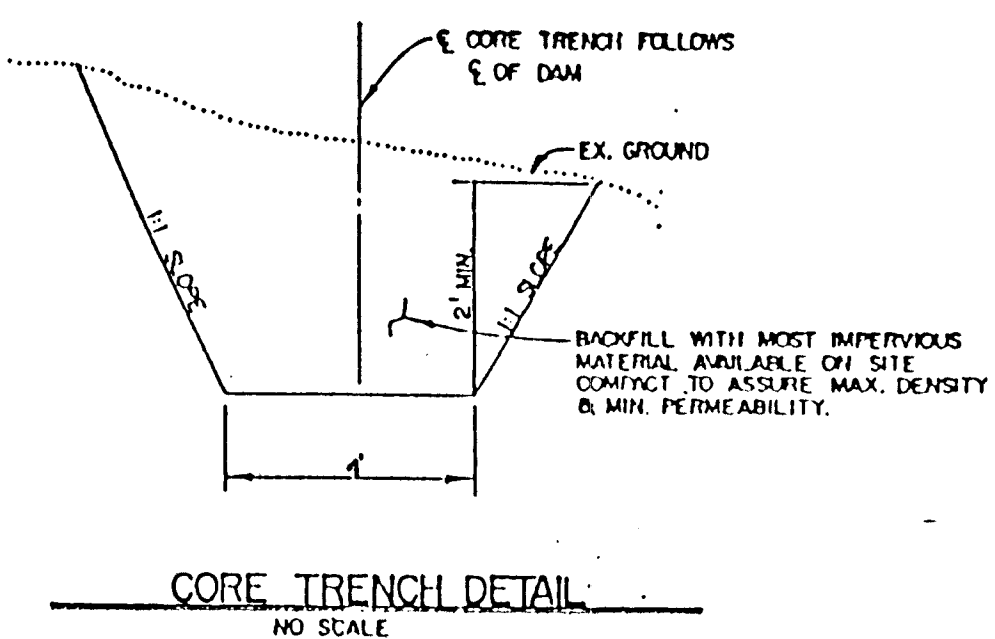


CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE
(not to scale)

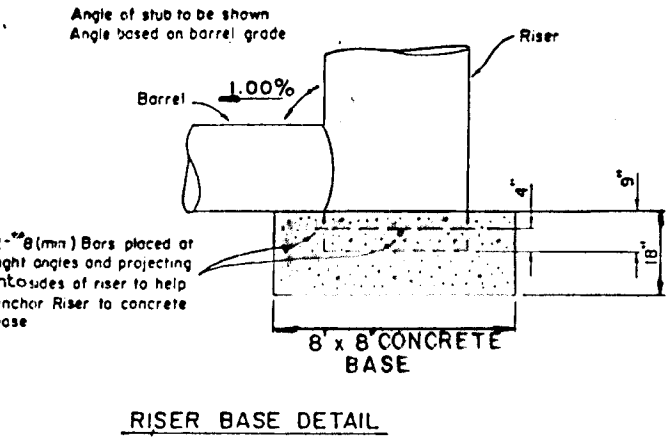


NOTES FOR COLLARS:
 1. All materials to be in accordance with construction and construction material specifications.
 2. When specified on the plans, coating of collars shall be in accordance with construction and construction material specifications.
 3. Unassembled collars shall be marked by painting or tagging to identify matching pairs.
 4. The lap between the two half sections and between the pipe and connecting band shall be caulked with asphalt mastic at time of installation.
 5. Each collar shall be furnished with two 1/2\"/>

DETAILS OF CORRUGATED METAL ANTI-SEEP COLLAR



CORE TRENCH DETAIL
NO SCALE

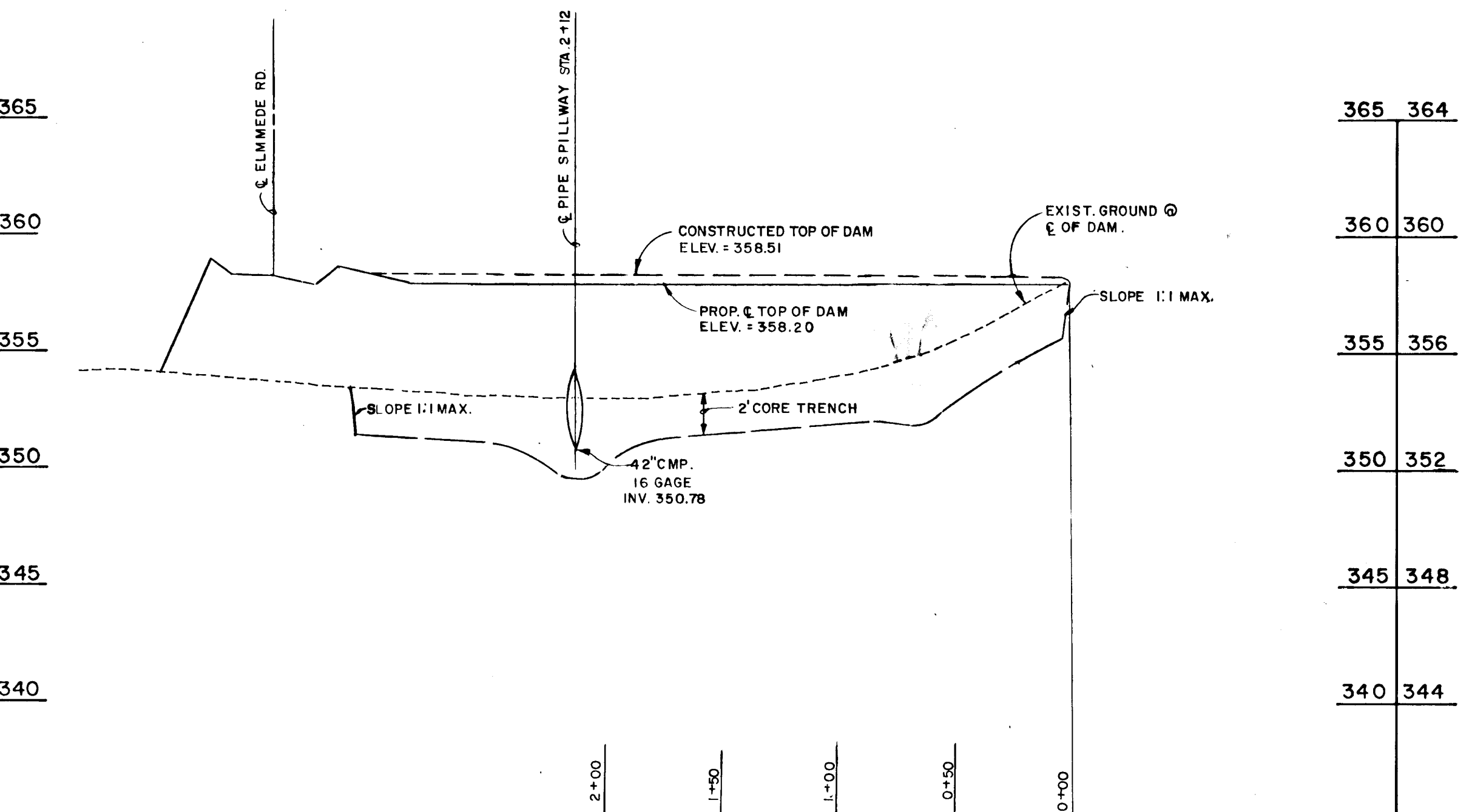


RISER BASE DETAIL

NOTES:
 1. The concrete base shall be poured in such a manner to ensure that the concrete fills the bottom of the riser to the invert of the outlet pipe to prevent the riser from floating away from the base.
 2. With aluminum or galvanized pipe the embedded section must be painted with zinc chromate or equivalent.
 3. Riser base may be used as computed using flotation with a factor of safety of 1.2.

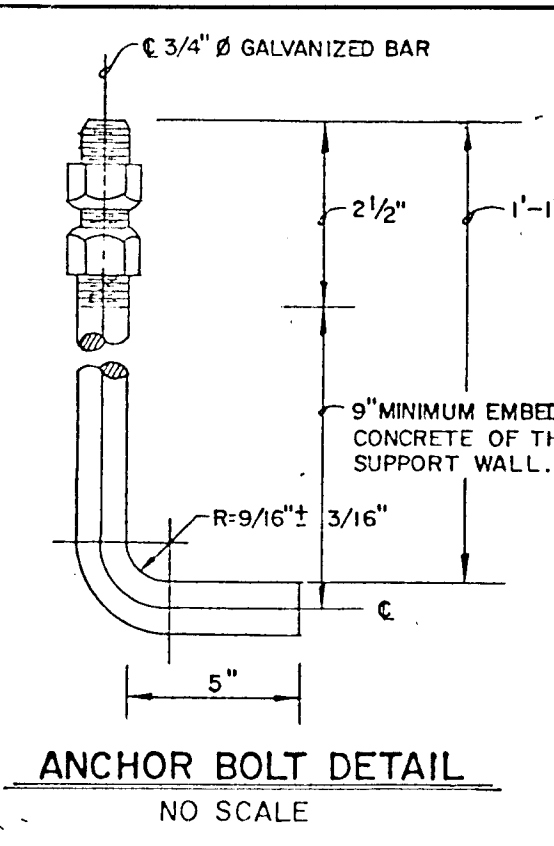
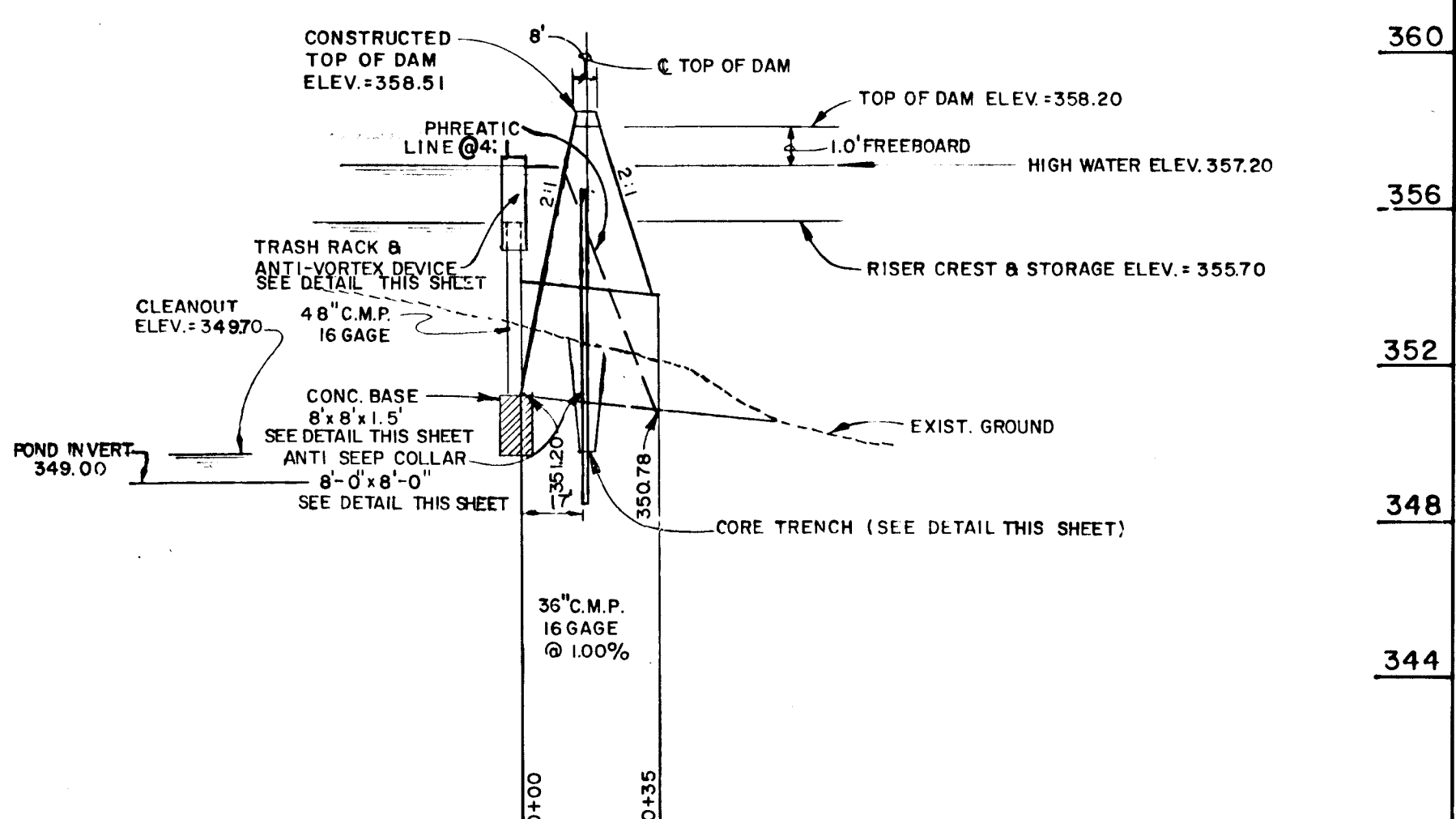
PROFILE ALONG CORE TRENCH

SCALE: 1\"/>

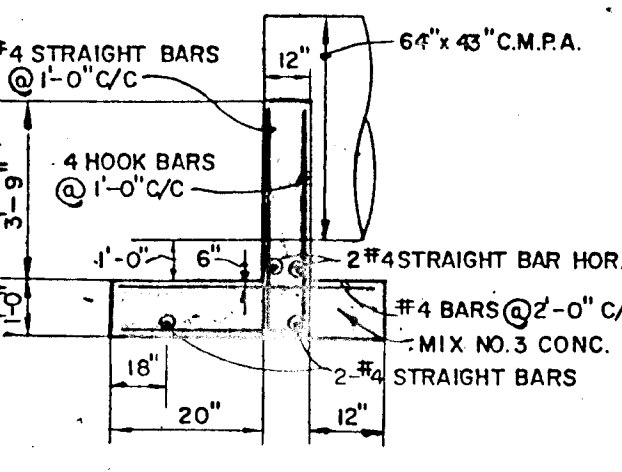


PROFILE OF TEMPORARY SEDIMENT BASIN

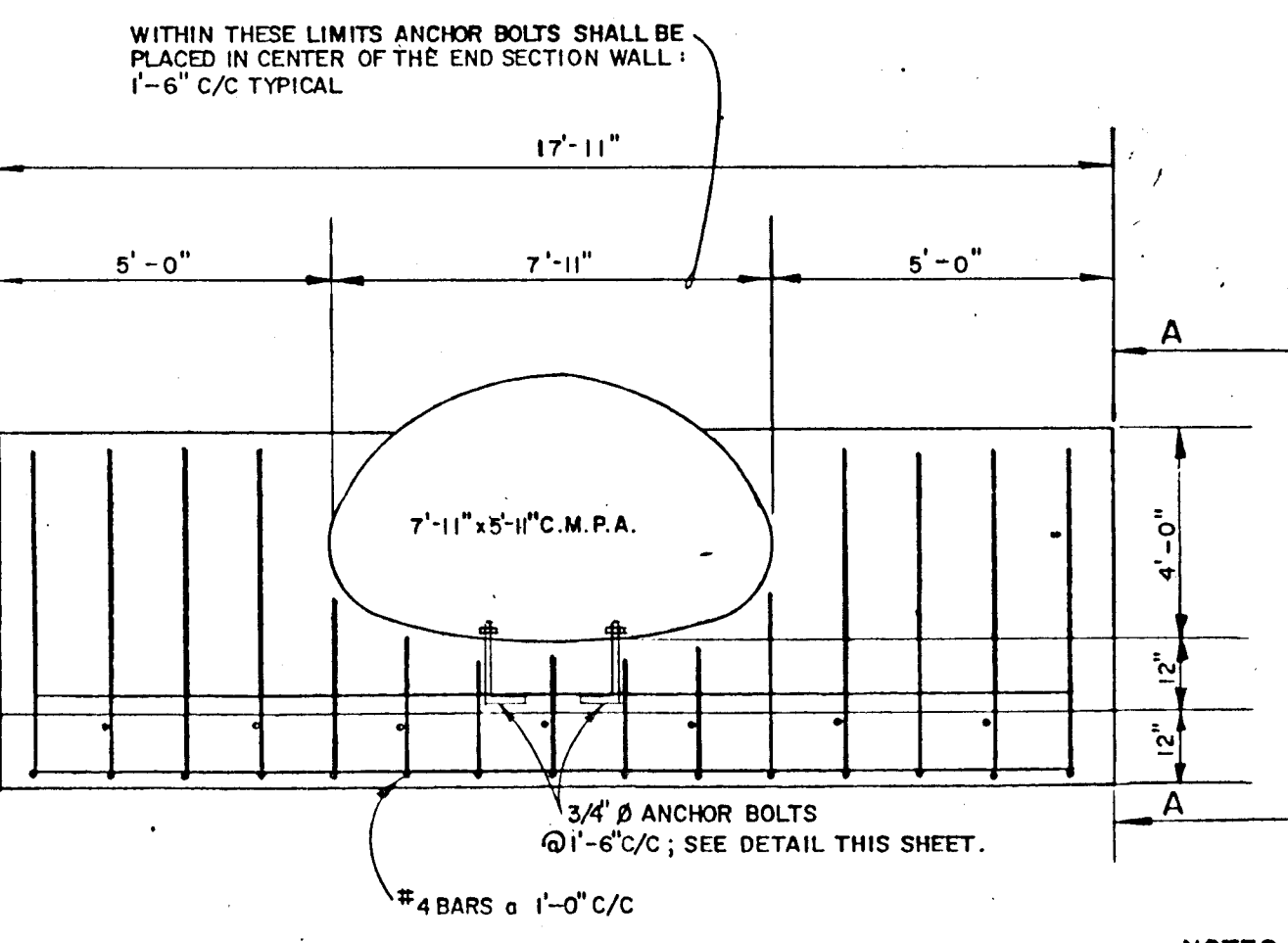
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ANCHOR BOLT DETAIL
NO SCALE



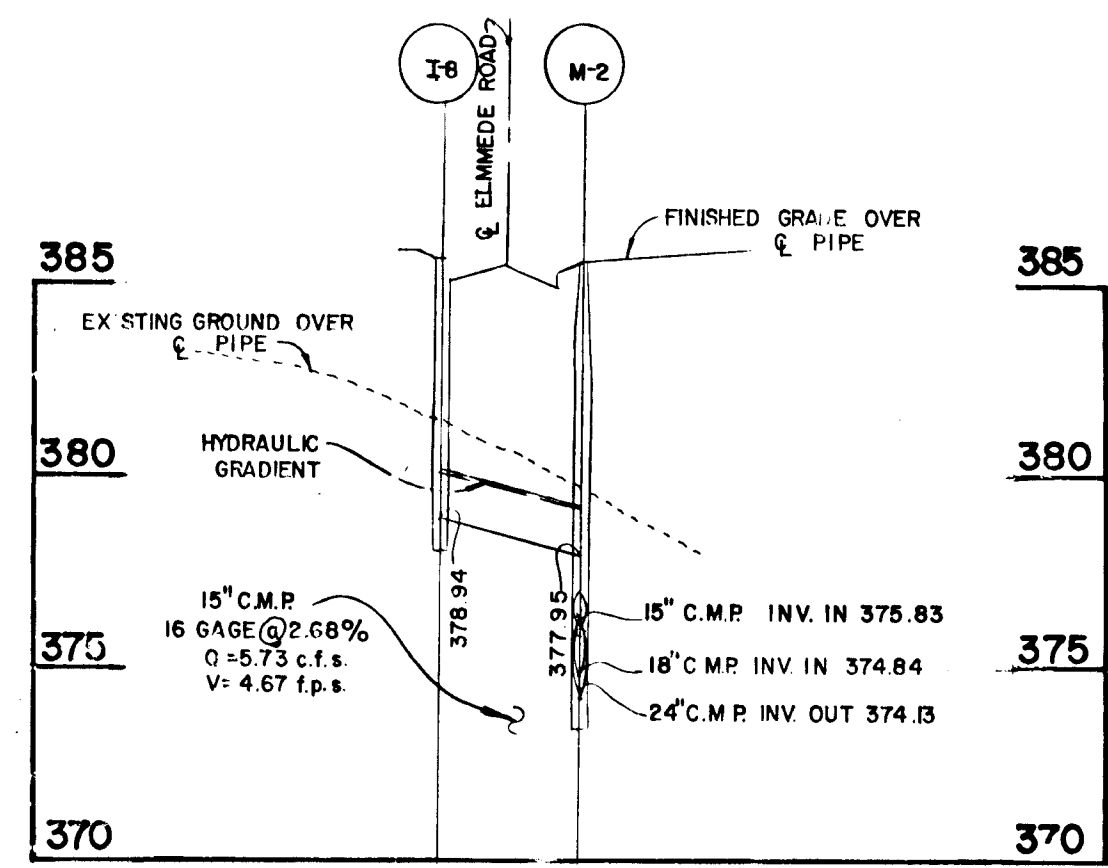
SECTION A-A
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END SUPPORT WALL DETAIL
NO SCALE

NOTES

1) EXCAVATION, BEDDING, FOUNDATION PREPARATION & BACKFILL FOR THE C.M.P.A. SHALL BE IN ACCORDANCE WITH SECT. 602 OF THE STATE HIGHWAY ADMINISTRATION SPECIFICATIONS. IF ROCK IS ENCOUNTERED, IT SHALL BE REMOVED & REPLACED WITH SAND TO PROVIDE A MINIMUM CUSHION OF 8 INCHES BELOW THE BOTTOM OF THE PIPE ARCH. SELECTED BACKFILL, IF REQUIRED, SHALL MEET THE REQUIREMENTS OF SECT. 601 OF THE S.H.A. SPECIFICATIONS.
 2) REINFORCING STEEL SHALL BE FREE FROM MUD, OIL OR OTHER NON-METALLIC COATINGS THAT ADVERSELY AFFECT BONDING CAPACITY.



END SUPPORT WALL

CONSTRUCTION SPECIFICATIONS

Site Preparation

Areas under the embankment shall be cleared, grubbed, and stripped of topsoil to remove trees, vegetation, roots or other objectionable material. In order to facilitate clean-out and restoration, the pool area (measured at the top of the pipe spillway) will be cleared of all brush, trees, and other objectionable materials.

Cut-off-Trench

A cut-off trench shall be excavated along the centerline of earth fill embankments. The minimum depth shall be two feet. The cutoff trench shall extend up both abutments to the riser crest elevation. The minimum bottom width shall be four feet, but wide enough to permit operation of excavation and compaction equipment. The side slopes shall be no steeper than 2:1. Compaction requirements shall be the same as those for embankment. The trench shall be dewatered during the backfilling-compaction operations.

Embankment

The fill material shall be taken from approved areas shown on the plans. It shall be clean mineral soil free of roots, woody vegetation, oversized stones, rocks, or other objectionable material. Relatively pervious materials such as sand or gravel (Unified Soil Classes CU, SW & SP) shall not be placed in the embankment. Areas on which fill is to be placed shall be scarified prior to placement of fill. The fill material shall contain sufficient moisture so that it can be formed by hand into a ball without crumbling. If water can be squeezed out of the ball, it is too wet for proper compaction. Fill material shall be placed six-inch to eight-inch thick continuous layers over the entire length of the fill. Compaction shall be obtained by routing and hauling the construction equipment over the fill so that the entire surface of each layer of the fill is traversed by at least one wheel or tread track of the equipment on the embankment. The fill material around the pipe spillway shall be placed in four inch layers and compacted under and around the pipe to at least the same density as the adjacent embankment.

Pipe Spillways

The riser shall be securely attached to the barrel or barrel stub by welding the full circumference making a watertight structural connection. The barrel stub must be attached to the riser at the same percent (angle) of grade as the outlet conduit. The connection between the riser and the riser base shall be watertight. All connections between barrels must be achieved by approved watertight band assemblies. (See page 18.22 for details.) The barrel and riser shall be placed on a firm, smooth foundation of impervious soil. Pervious materials such as sand, gravel, or crushed stone shall not be used as backfill around the pipe or anti-trap collars. The fill material around the pipe spillway shall be placed in four inch layers and compacted under and around the pipe to at least the same density as the adjacent embankment.

A minimum depth of two feet of hand compacted backfill shall be placed over the pipe spillway before crossing it with construction equipment. Steel base plates on risers shall have at least 2-1/2 feet of compacted earth, stone or gravel placed over it to prevent flotation.

Vegetative Treatment

Stabilize the embankment and emergency spillway in accordance with the appropriate vegetative Standard and Specifications immediately following construction. In no case shall the embankment remain unstabilized for more than seven(7) days.

Erosion and Pollution Control

Construction operations shall be carried out in such a manner that erosion and water pollution will be minimized. State and local laws shall be complied with concerning pollution abatement.

Safety

State and local requirements shall be met concerning fencing and signs, warning the public of hazards of soft sediment and floodwater.

Maintenance

1. Repair all damages caused by soil erosion and construction equipment at or before the end of each working day.
2. Sediment shall be removed from the basin when it reaches the specified distance below the top of the riser. This sediment shall be placed in such a manner that it will not erode from the site. The sediment shall not be deposited downstream from the embankment, adjacent to a stream or flood plain.

Final Disposal

When temporary structures have served their intended purpose and the contributing drainage area has been properly stabilized, the embankment and resulting sediment deposits are to be leveled or otherwise disposed of in accordance with the approved sediment control plan. The proposed use of a sediment basin site will often dictate final disposition of the basin and any sediment contained therein. If the site is scheduled for future construction, then the basin material and trapped sediments must be removed, safely disposed of, and backfilled with a structural fill. When the basin area is to remain open space the pond may be pumped dry, graded and back filled.

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 of Engineer: *Charles J. Crovo Sr.* Date: *1/22/87*

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 of Developer: *John M. ...* Date: *1/22/87*

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

APPROVED: U.S. SOIL CONSERVATION DISTRICT DATE

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

APPROVED: DISTRICT HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS

Signature of Chief: *William ...* Date: *4-21-87*

CHIEF, BUREAU OF ENGINEERING

APPROVED: OFFICE OF PLANNING AND ZONING

Signature of Chief: *John M. ...* Date: *4/16/87*

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

STRUCTURE SCHEDULE

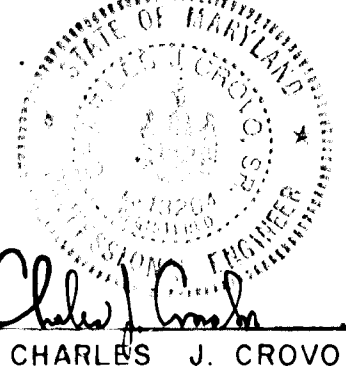
STRUCTURE	TYPE	INVERT IN	INVERT OUT	TOP ELEV.	ROAD STATION	REMARKS
I-1	A-5	350.83	350.58	357.10	14+32.06 ELMMEDE ROAD	S.D. 4.01
I-2	A-5	---	351.75	357.10	14+32.06 ELMMEDE ROAD	S.D. 4.01
I-3	A-5	364.79	364.54	370.97	3425.14 KINGS COURT	S.D. 4.01
I-4	A-10	365.75	365.00	370.97	3425.14 KINGS COURT	S.D. 4.02
I-5	TYPE "D"	369.69	369.11	374.88	---	S.D. 4.11
I-6	A-5	376.18	375.93	380.92	24+28.31 ELMMEDE ROAD	S.D. 4.01
I-7	A-5	---	376.50	380.92	24+28.31 ELMMEDE ROAD	S.D. 4.01
I-8	A-10 W/ DEFLECTORS	---	378.94	385.76	25+83.16 ELMMEDE ROAD	S.D. 4.02
I-9	A-5 W/ DEFLECTORS	403.11	402.86	409.13	28+70.00 ELMMEDE ROAD	S.D. 4.01
I-10	A-10 W/ DEFLECTORS	---	404.19	410.97	28+88.39 ELMMEDE ROAD	S.D. 4.02
I-11	A-5	---	366.38	370.40	1+04.88 L.P. STORY BOOK COURT	S.D. 4.01
MH-1	STANDARD MANHOLE	363.42	363.17	373.30	4+38.06 @ 40' FROM KINGS COURT	G.5.02
MH-2	STANDARD MANHOLE	377.95	374.13	385.55	25+74.36 @ 21' FROM ELMMEDE ROAD	G.5.01
MH-3	STANDARD MANHOLE	391.36	390.62	398.05	27+56.00 ELMMEDE ROAD	G.5.01
S-3	STANDARD METAL END SECTION	---	361.27	364.27	---	S.D. 5.61
S-4	STANDARD METAL END SECTION	---	360.44	361.69	---	S.D. 5.61

STORM DRAIN PROFILE, SEDIMENT BASIN NOTES, AND DETAILS

ENCHANTED FOREST ESTATES

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

SCALE: AS SHOWN SHEET 8 OF 8 DEC. 22, 1986



Signature of Engineer: *Charles J. Crovo Sr.* Date: *1/22/87*

1205
 FISHER, COLLINS, AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043
 TELEPHONE (301) 461-2855

OWNER & DEVELOPER
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