

APPROVED: DEPARTMENT OF PUBLIC WORKS
William E. Kelly 11/2/84
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: OFFICE OF PLANNING AND ZONING
William M. Wachman 11/6/84
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

INDEX OF SHEETS

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3. CHERRY LANE PLAN AND PROFILE
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CHERRYTREE FARM

SECTION 1 AREA 1

ROAD AND STORM DRAIN

CONSTRUCTION DRAWINGS

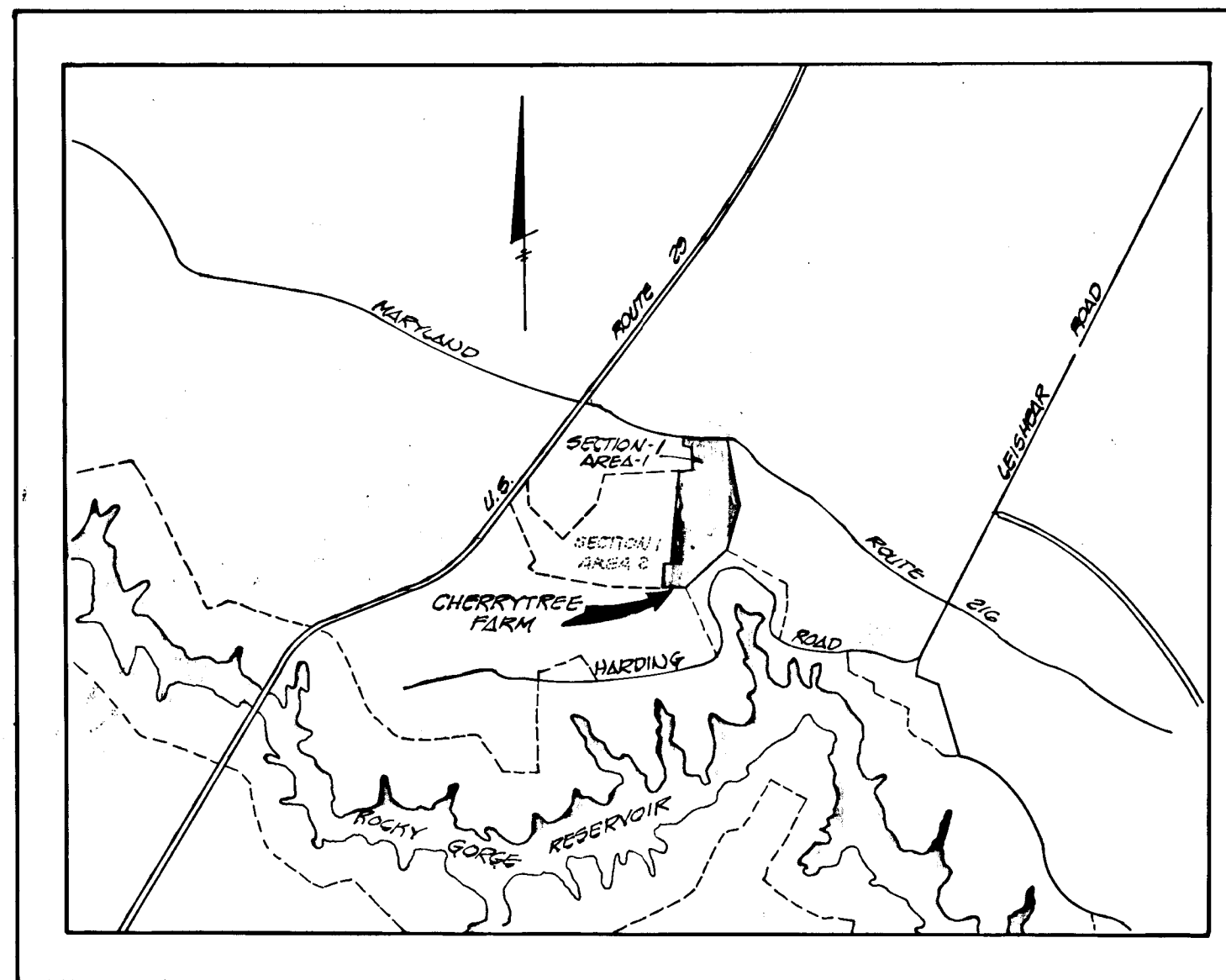
GENERAL NOTES

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 STANDARD 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. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES WHERE DIRECTED BY THE ENGINEER A MINIMUM OF TWO WEEKS IN ADVANCE OF ANY CONSTRUCTION.
8. CONTRACTOR TO NOTIFY THE HOWARD COUNTY DEPT. OF INSPECTIONS AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TELEPHONE: 792-7272
9. DENOTES STREET TREES AS REQUIRED BY SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. FOR STREET TREE PLAN PLANTING DETAIL SEE SHEET 7 OF 15.

BENCH MARKS

BM #19 (P&J) ELEV. 406.96
 40 PENNY NAIL FOUND IN C&P
 #156 SOUTH SIDE OF MARYLAND
 ROUTE 216 93'± WEST OF
 CHERRY LANE.

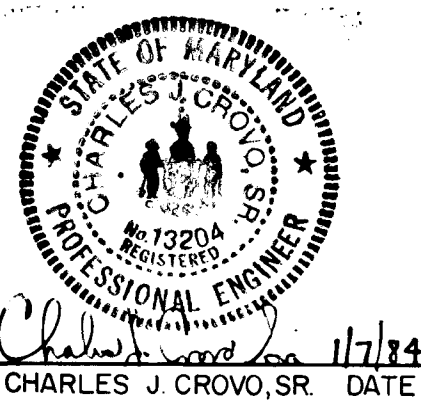
BM #20 (P&J) ELEV. 412.79
 ROAD SIDE BONNET BOLT OF
 FIRE HYDRANT, NORTH SIDE
 OF MARYLAND ROUTE 216
 250'± WEST OF CHERRY LANE.



VICINITY MAP
 SCALE 1" = 2640'

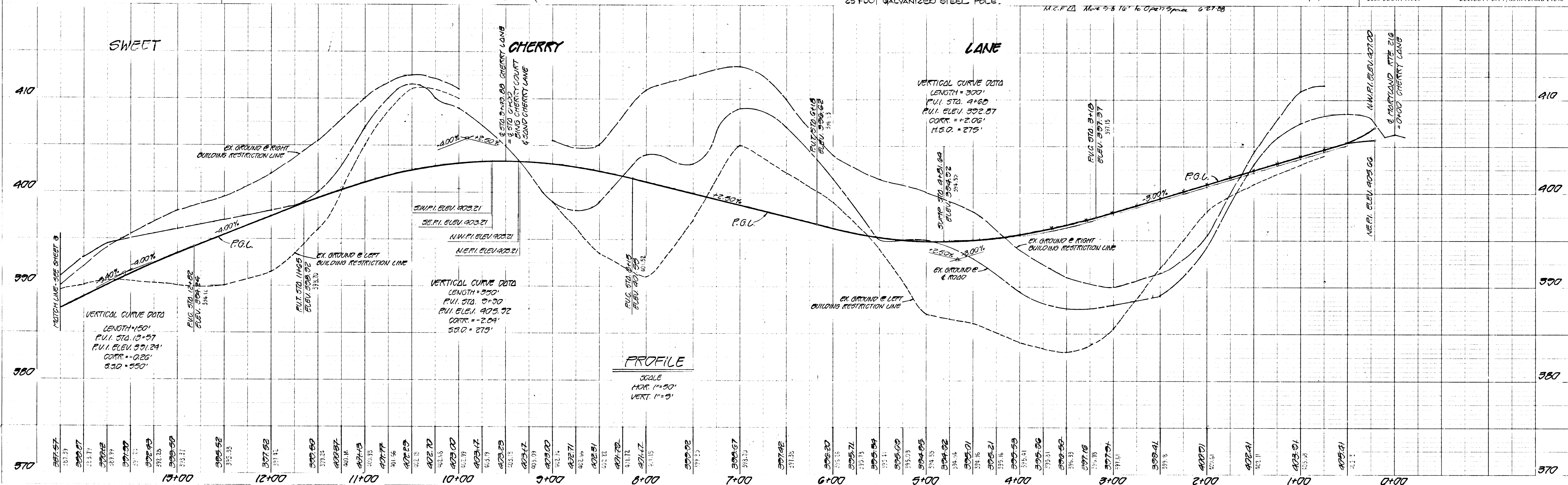
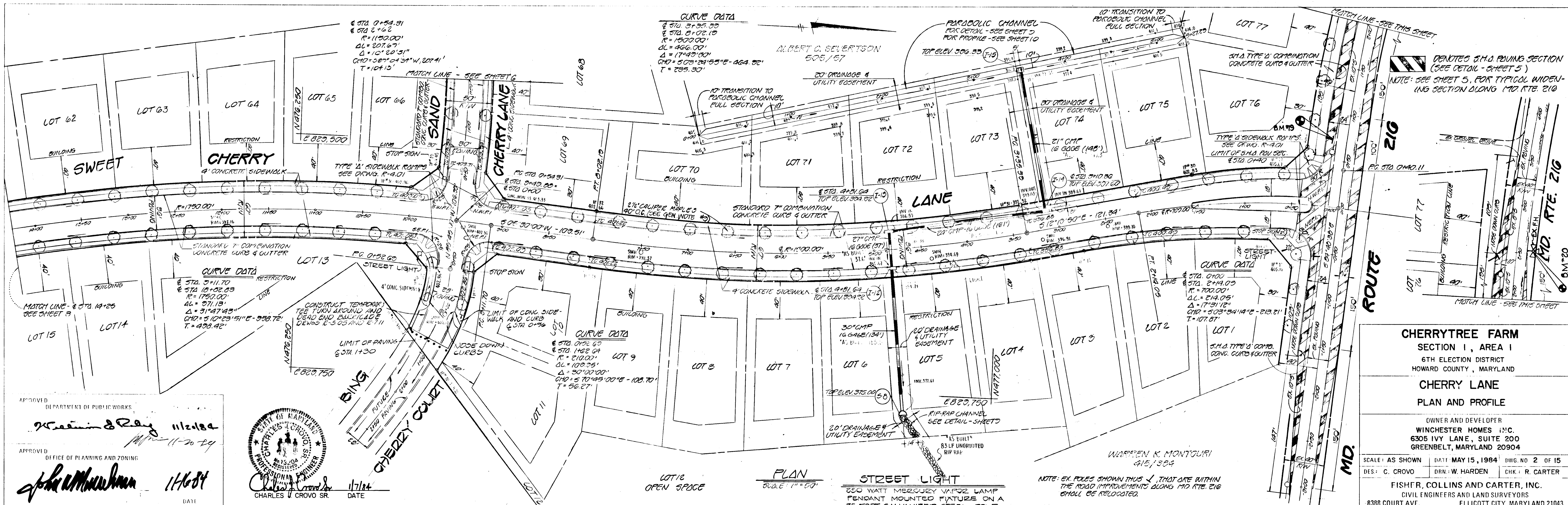
OWNER AND DEVELOPER

WINCHESTER HOMES INC.
 SUITE 200
 6305 IVY LANE
 GREENBELT, MARYLAND 20904
 DWG. No. 1 OF 15



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

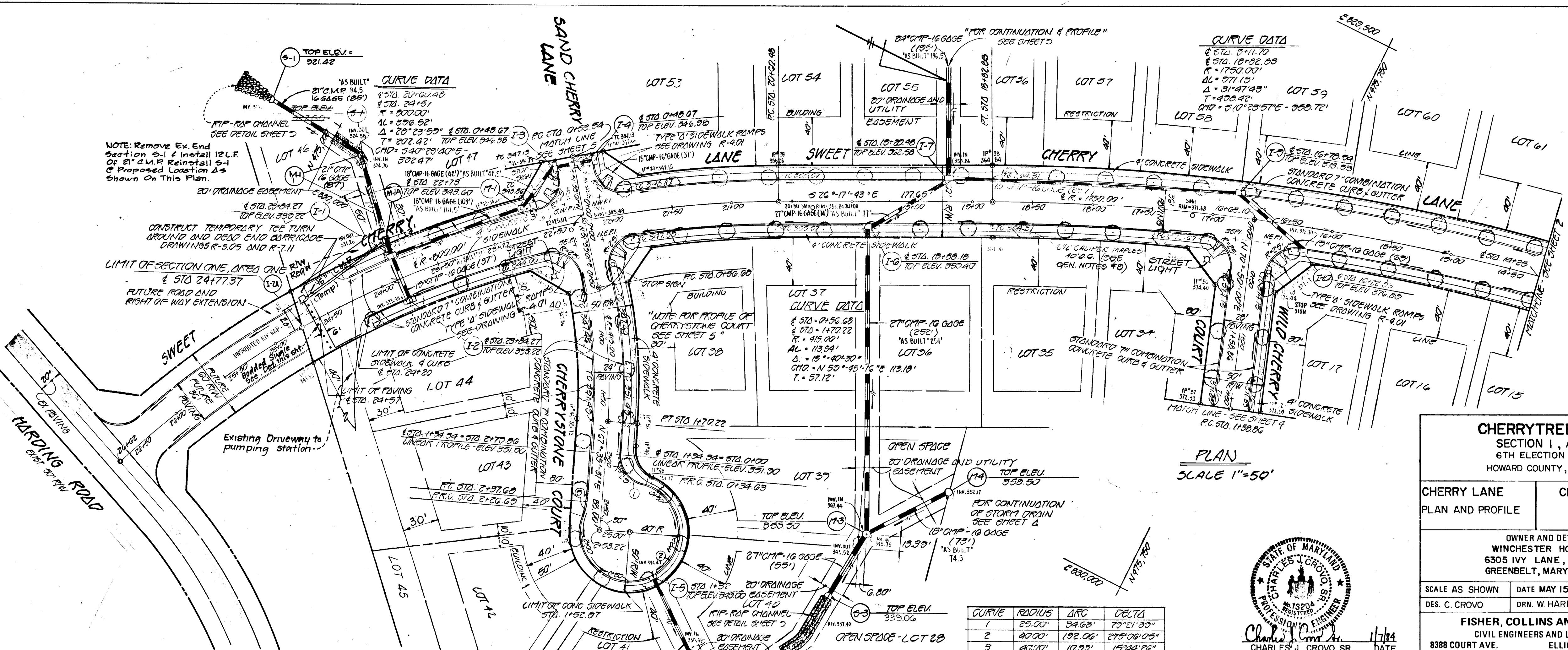
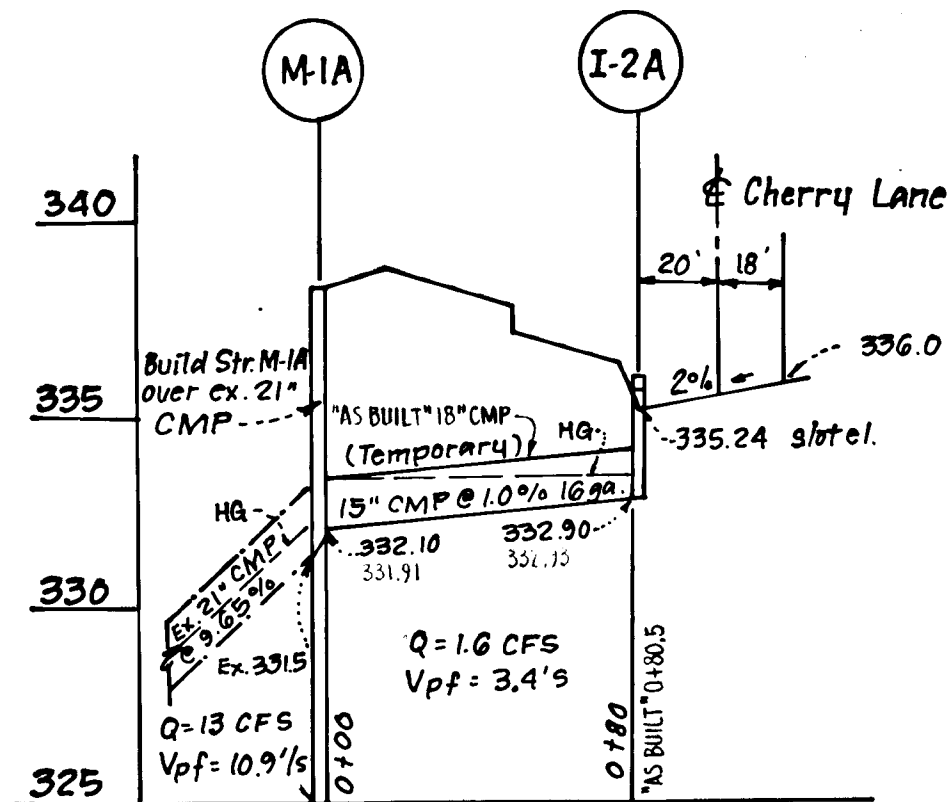
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PLAN	DATE
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PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHKD	
NOTE BOOK NO.	

PROFILE	DATE
SURVEYED	
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GRADES CHECKED	
STRUCTURE NOTATIONS CHKD	
NOTE BOOK NO.	



APPROVED DEPARTMENT OF PUBLIC WORKS
W. J. ... 11-20-84
 CHIEF, BUREAU OF ENGINEERING

APPROVED OFFICE OF PLANNING AND ZONING
John W. ... 11-16-84
 DIVISION OF PLANNING AND ZONING ADMINISTRATION

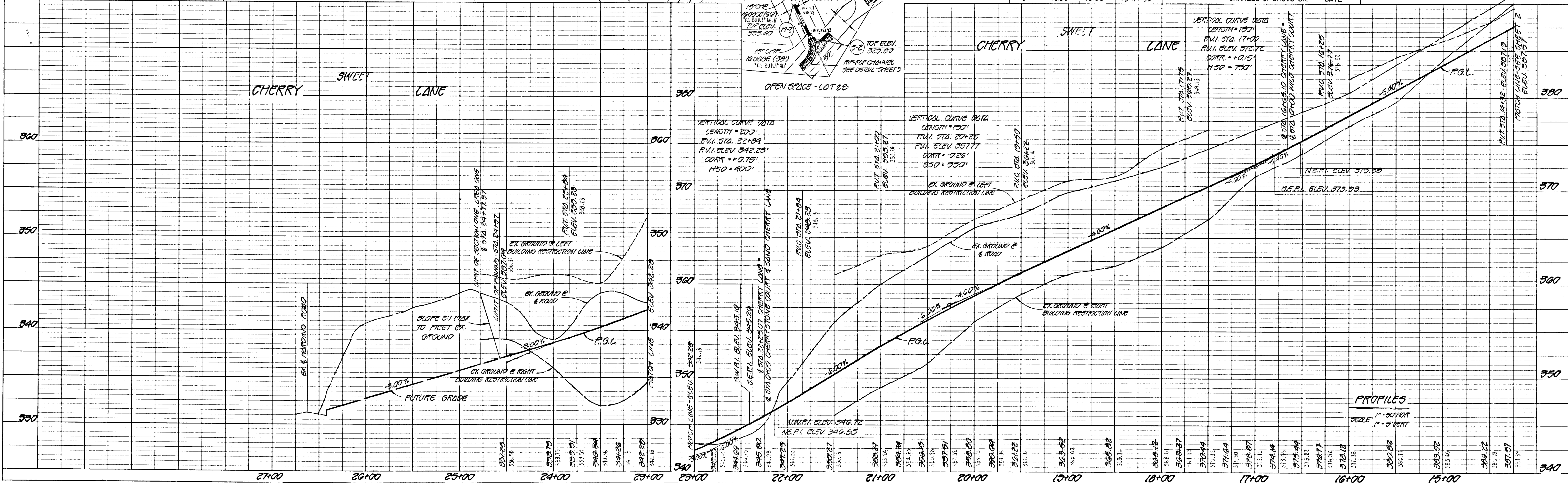
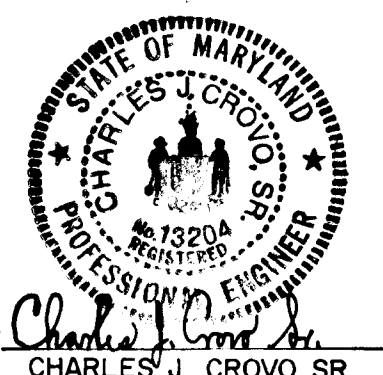
CHERRY TREE FARM
 SECTION I, AREA I
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

CHERRY LANE PLAN AND PROFILE
 CHERRYSTONE COURT PLAN

OWNER AND DEVELOPER
 WINCHESTER HOMES INC.
 6305 IVY LANE, SUITE 200
 GREENBELT, MARYLAND 20904

SCALE AS SHOWN DATE MAY 15, 1984 DWG. NO. 3 OF 15
 DES. C. CROVO DRN. W. HARDEN CHK. R. CARTER

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



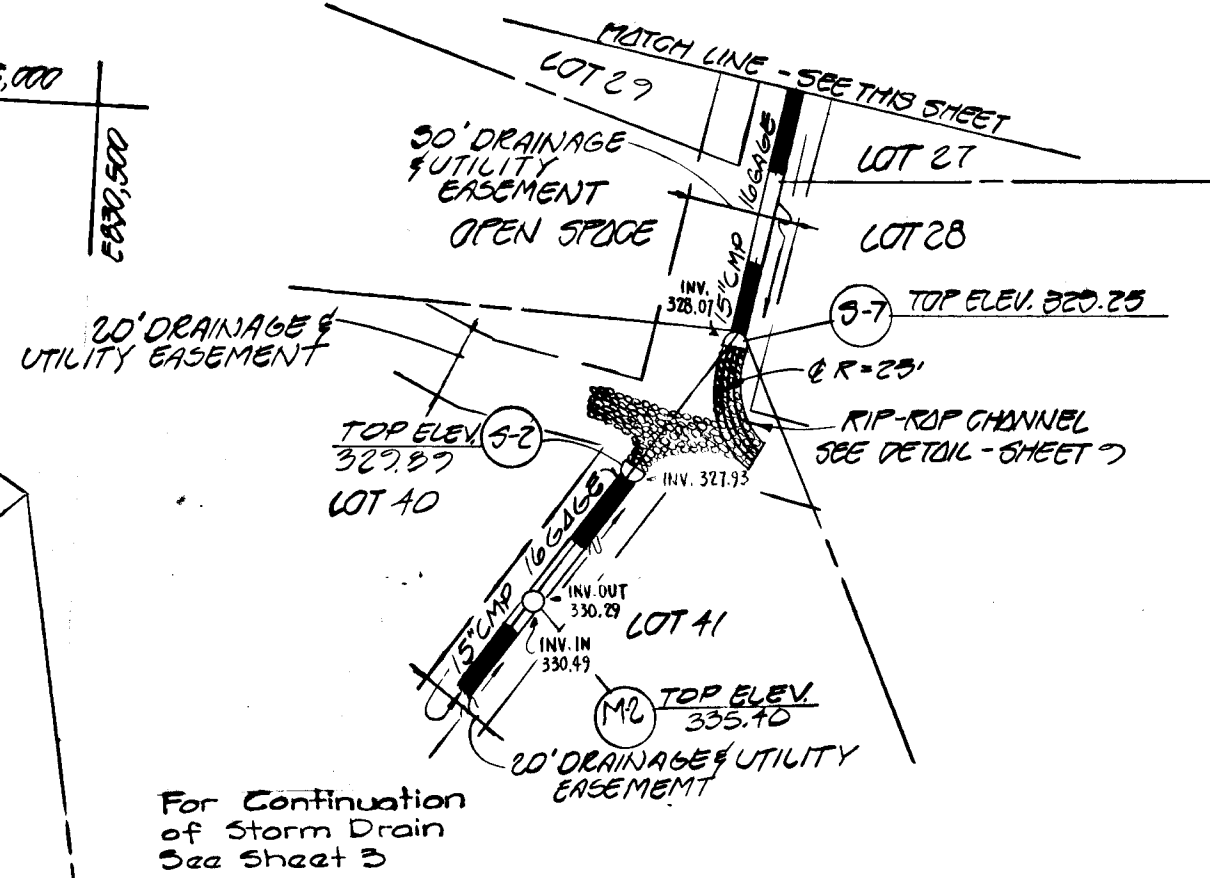
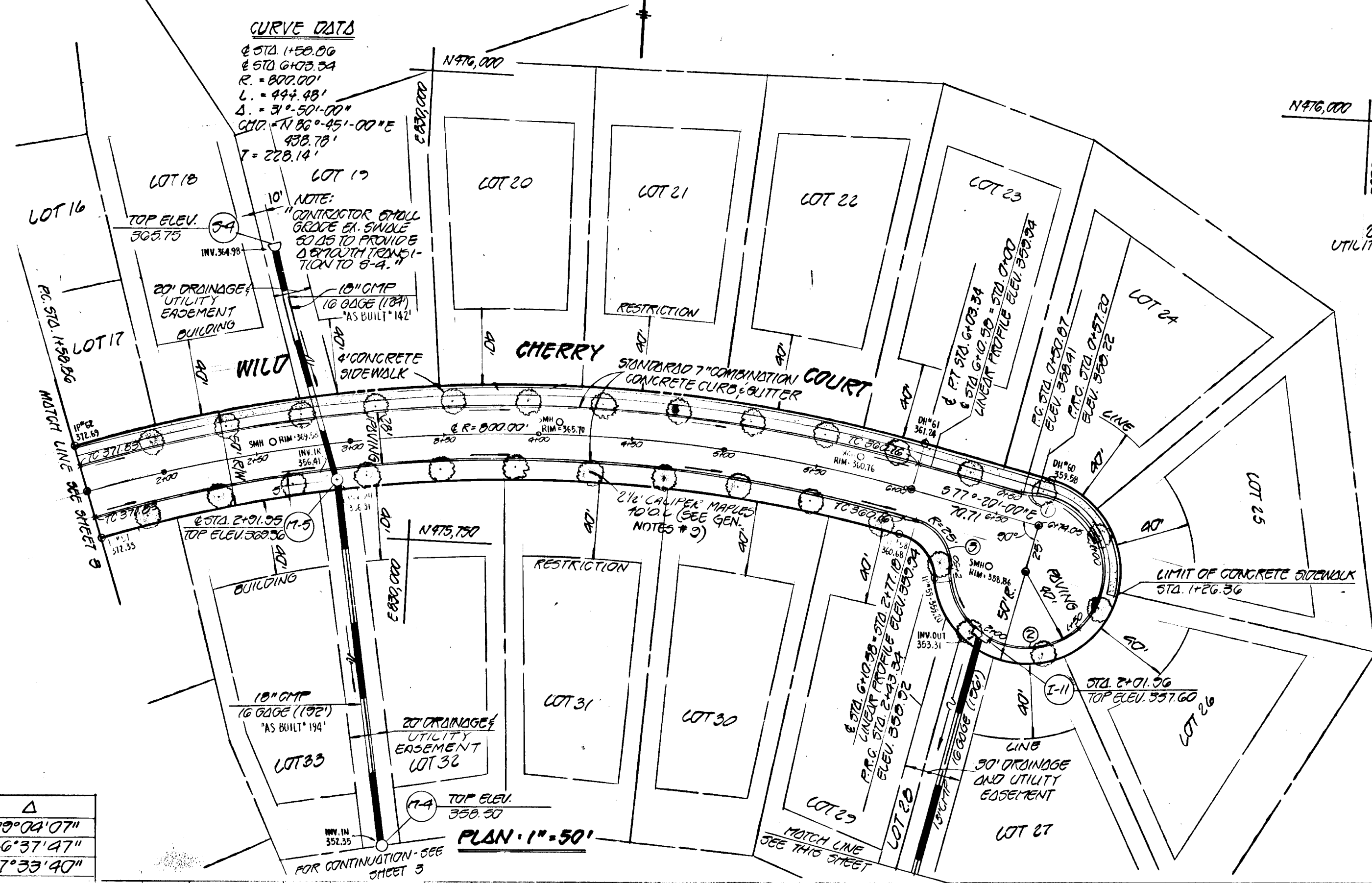
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APPROVED
 DEPARTMENT OF PUBLIC WORKS
William & Rose 11/16/84
 APPROVED
 OFFICE OF PLANNING AND ZONING
John W. Henschman 11-16-84

NO.	R.	L.	Δ
1	40.00'	6.53'	09°04'07"
2	40.00'	18.14'	266°31'47"
3	25.00'	33.84'	77°33'40"



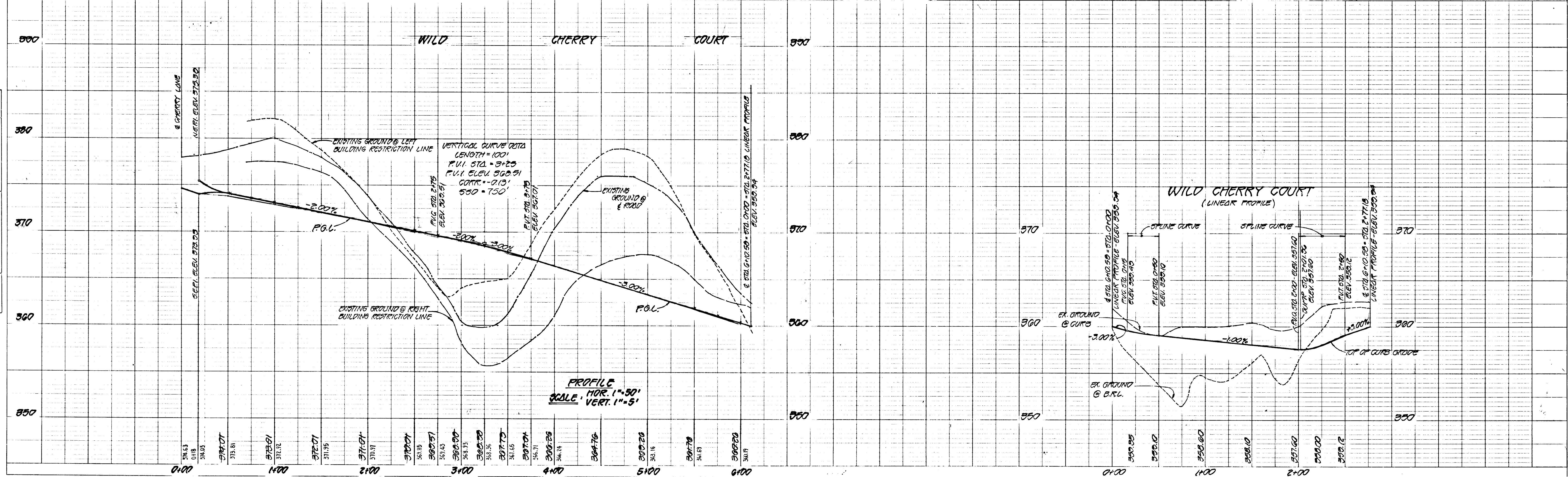
CHERRYTREE FARM
 SECTION I, AREA I
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

WILD CHERRY COURT
 PLAN AND PROFILE

OWNER AND DEVELOPER
 WINCHESTER HOMES INC.
 6305 IVY LANE, SUITE 200
 GREENBELT, MARYLAND 20904

SCALE: AS SHOWN DATE: MAY 15, 1984 DWG. NO. 4 OF 15
 DES: C. CROVO DRN: W. HARDEN CHK: R. CARTER

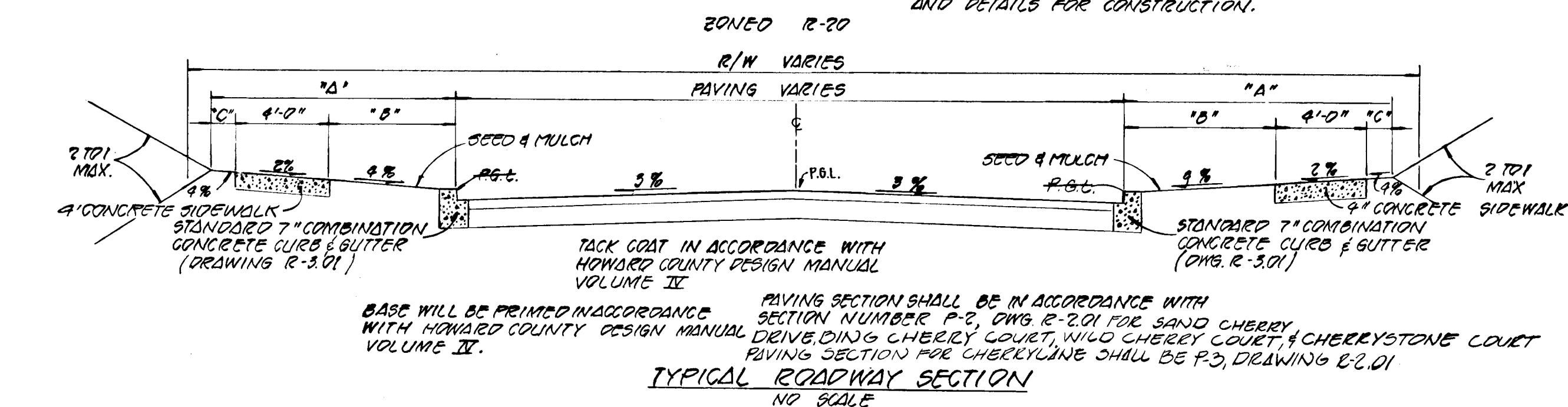
FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



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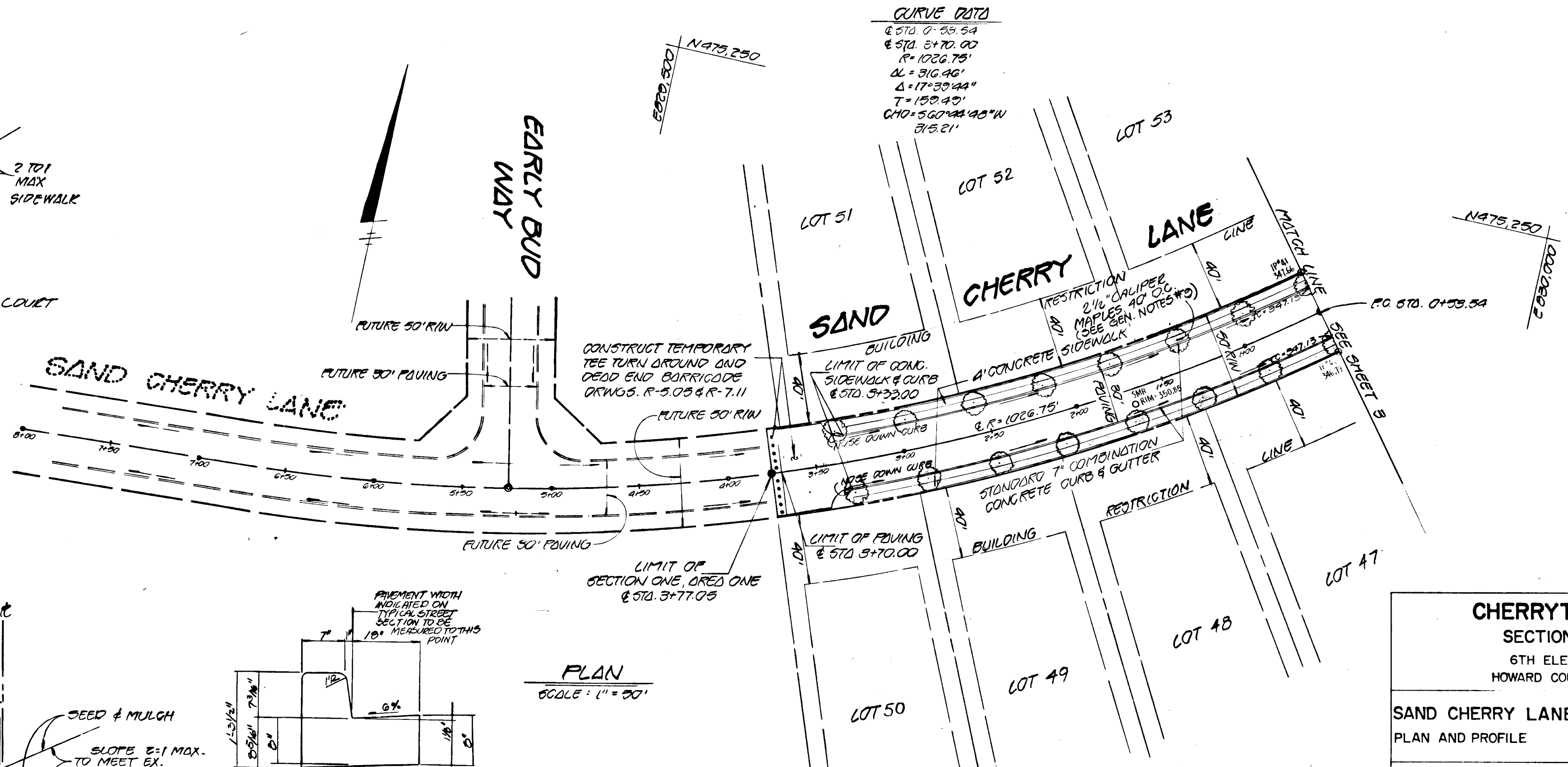
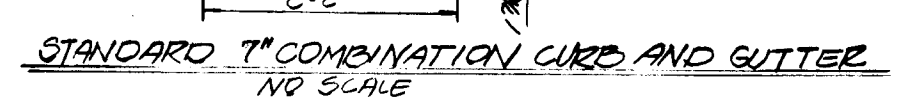
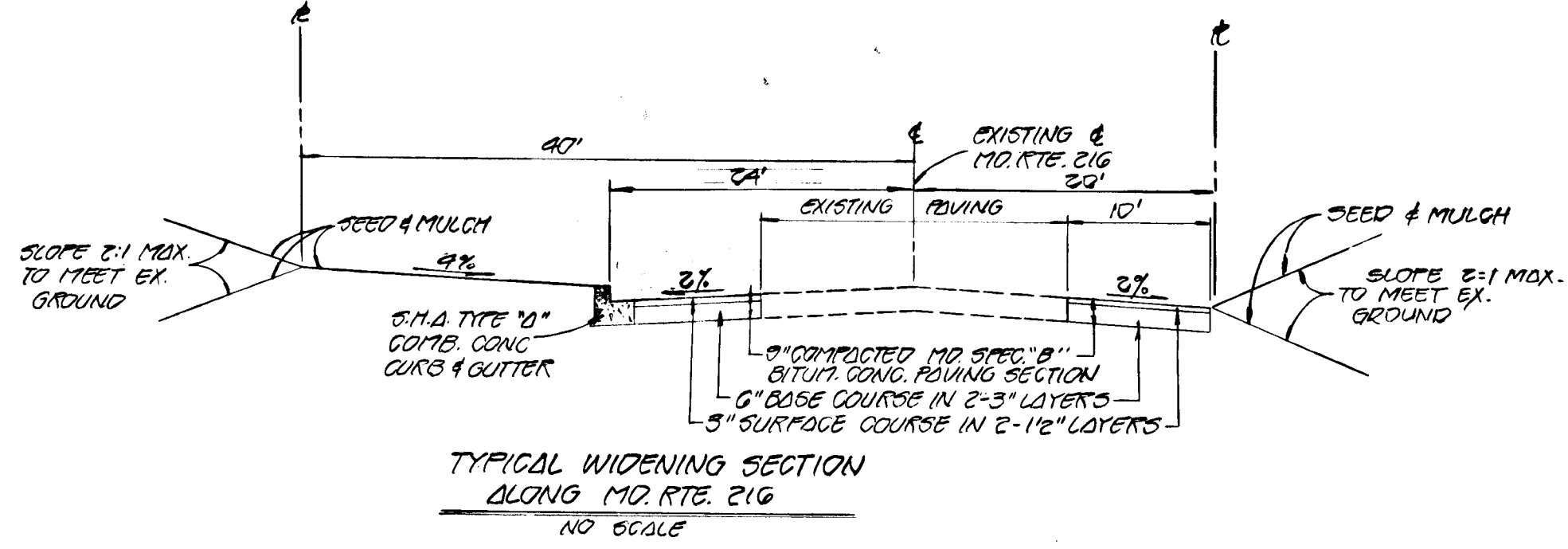
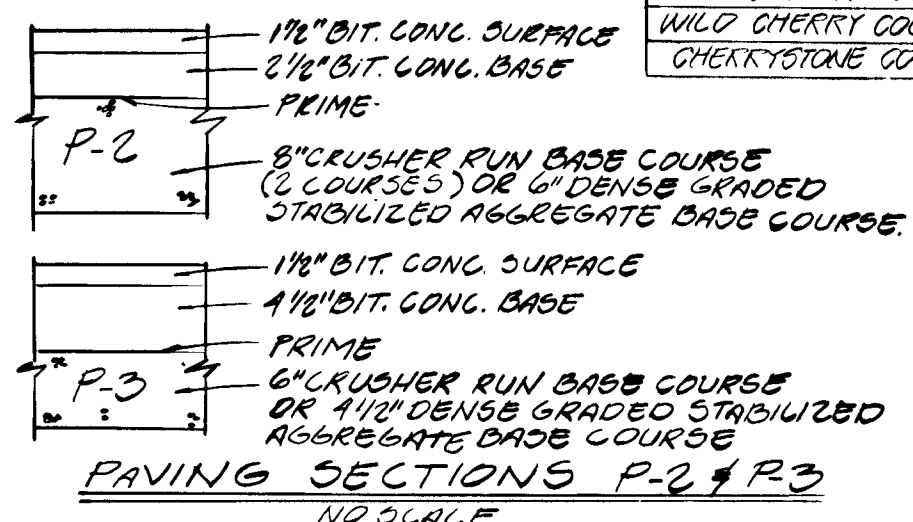
AS-BUILT
 NOV. 1, 1991

ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL - VOLUME II - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.



TYPICAL ROADWAY SECTION
NO SCALE

ROAD NAME	PAVING WIDTH	R/W	CLASSIFICATION	DESIGN SPEED	1'	0'	6"
CHERRY LANE	36'	60'	MINOR COLLECTOR	35 M.P.H.	12'	6'	2'
SAND CHERRY LANE	30'	50'	LOCAL	30 M.P.H.	9'	4'	1'
WILD CHERRY COURT	28'	50'	CUL-DE-SAC	30 M.P.H.	9'	4'	1'
CHEERYSTONE COURT	24'	50'	CUL-DE-SAC	30 M.P.H.	9'	4'	1'



PLAN
SCALE: 1" = 30'

APPROVED
DEPARTMENT OF PUBLIC WORKS
James B. Ray 11/2/84

APPROVED
OFFICE OF PLANNING AND ZONING
John W. Muschman 11/6/84



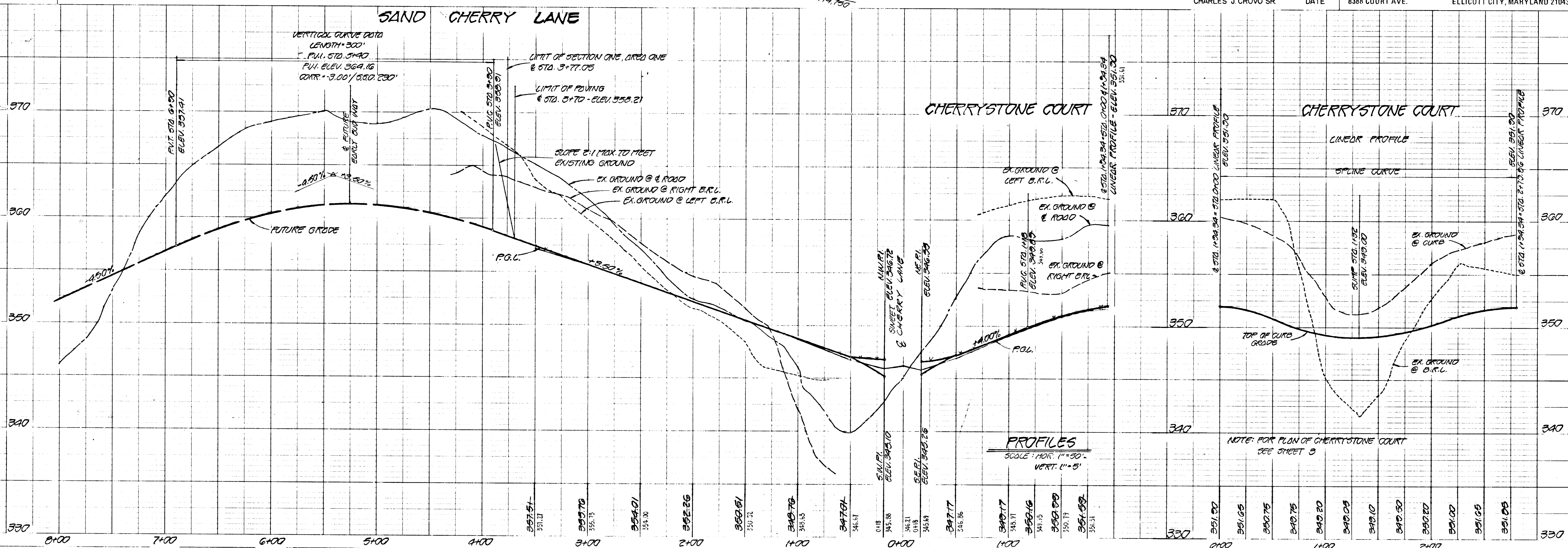
CHERRYTREE FARM
SECTION I, AREA I
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SAND CHERRY LANE | **CHERRYSTONE COURT**
PLAN AND PROFILE | PROFILE

OWNER AND DEVELOPER
WINCHESTER HOMES INC.
6305 IVY LANE, SUITE 200
GREENBELT, MARYLAND 20904

SCALE: AS SHOWN | DATE: MAY 15, 1984 | DWG. NO. 5 OF 15
DES. C. CROVO | DRN. W. HARDEN | CHK. R. CARTER

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

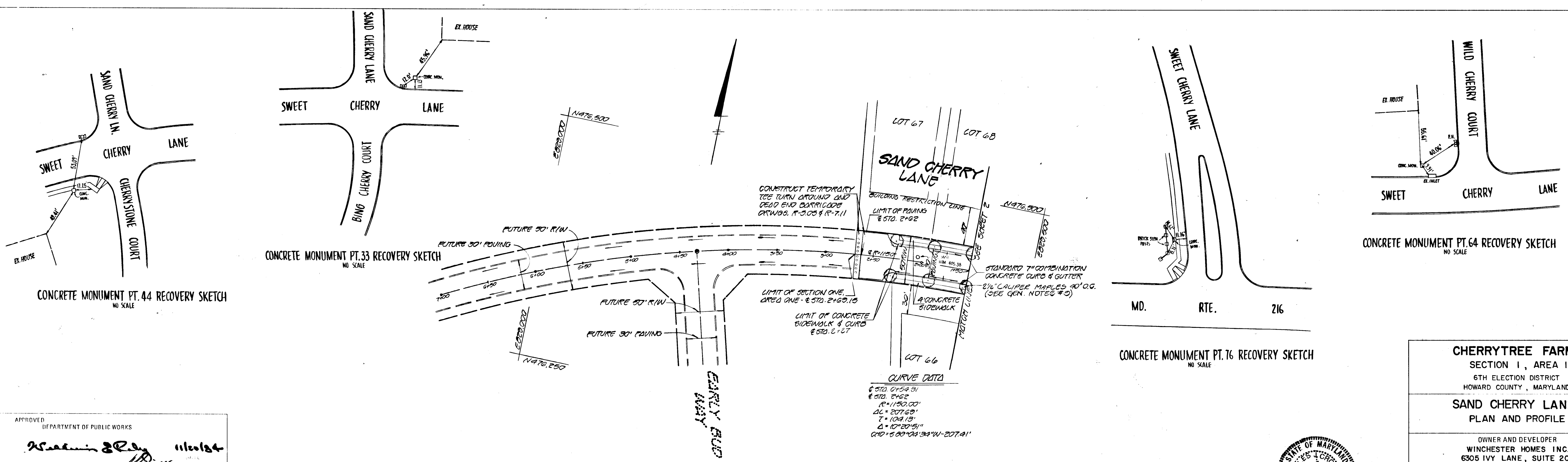


PROFILES
SCALE: HOR. 1" = 30'
VERT. 1" = 5'

NOTE: FOR PLAN OF CHERRYSTONE COURT SEE SHEET 3

1109

DATE
BY
REVIEWED
DESIGNED
CHECKED
NO. 1
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APPROVED
DEPARTMENT OF PUBLIC WORKS
William J. Reilly 11/6/84

APPROVED
OFFICE OF PLANNING AND ZONING
John W. Munchman 11/6/84

AND ZONING ADMINISTRATION DATE

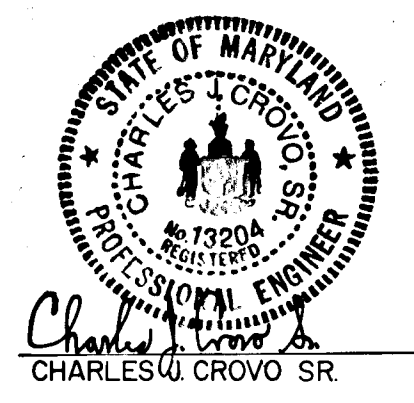
CHERRYTREE FARM
SECTION I, AREA I
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SAND CHERRY LANE
PLAN AND PROFILE

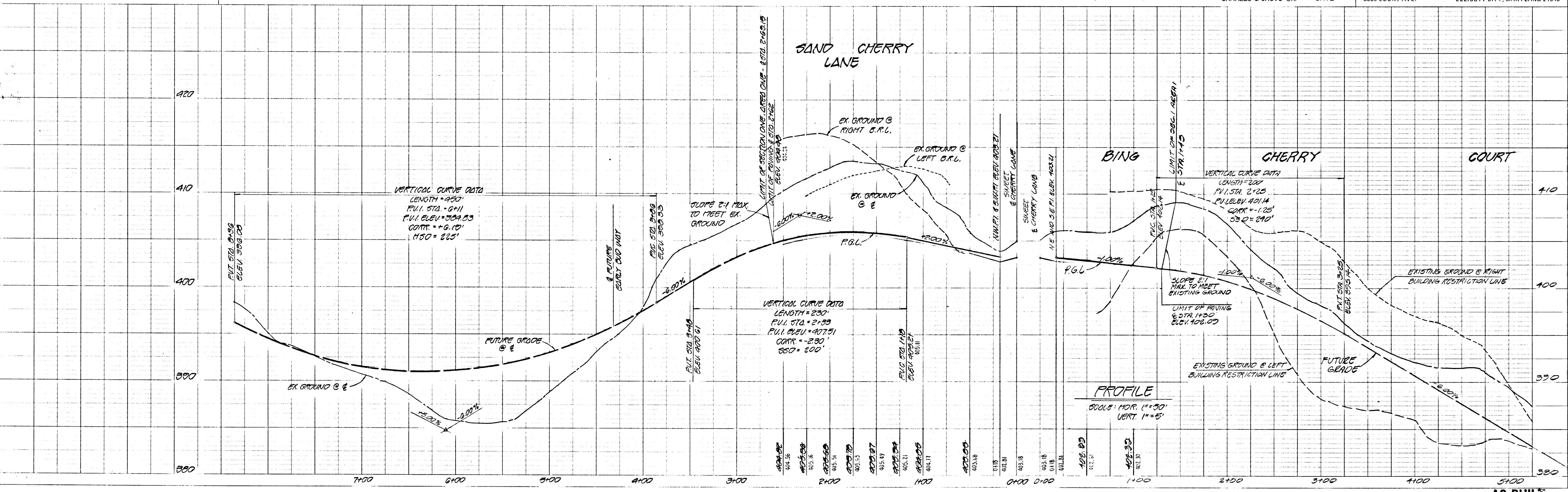
OWNER AND DEVELOPER
WINCHESTER HOMES INC.
6305 IVY LANE, SUITE 200
GREENBELT, MARYLAND 20904

SCALE: AS SHOWN DATE MAY 15, 1984 DWG. NO. 6 OF 15
DES: C. CROVO DRN: W. HARDEN CHK: R. CARTER

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



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S.W.M. SPECIFICATIONS

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 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 4" topsoil
 - Working in 1 ton of ground limestone and 1,000 pounds of 10-10-10 fertilizer per acre.
 - Seed with 40 lbs./acre of "Kentucky 31" tall fescue, and 15 lbs./acre of Crownvetch inoculated.
 - Mulch with 1-1/2 tons straw per acre.
 - Tie down mulch with emulsified asphalt @ 348 gallons/acre.

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 out and restoration, it is recommended that the permanent pool area be cleared of all brush and trees.

II. EARTH FILL

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 5 percent above the design elevation (including freeboard) unless otherwise shown on the plans.

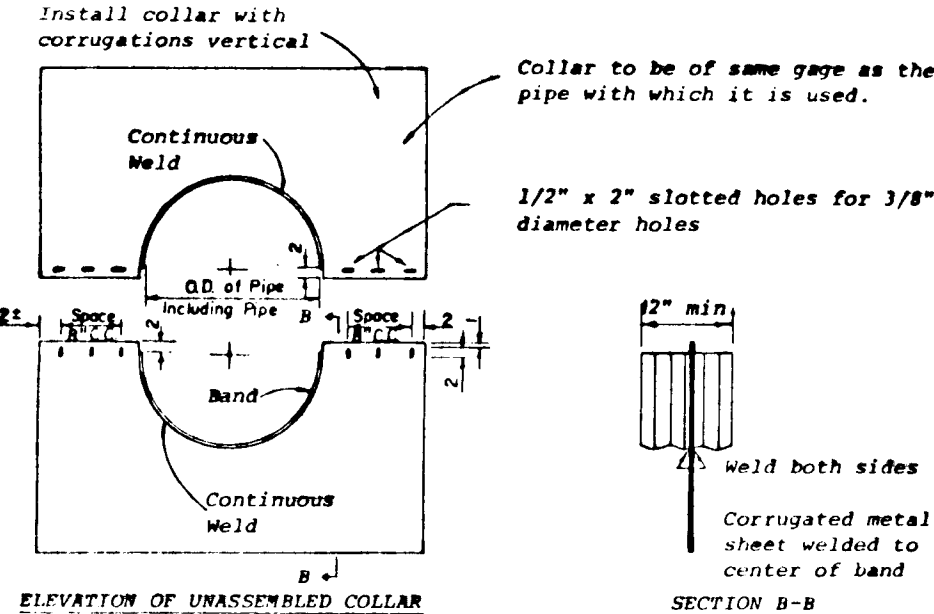
Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in 8-inch maximum thickness (before compaction) layers which are to be continuous over the entire length of the fill. The most porous borrow material shall be placed in the downstream portions 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 four feet. The depth shall be at least four feet or as shown on the plans. The side slopes of the trench shall be 1 to 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.

III. STRUCTURAL BACKFILL

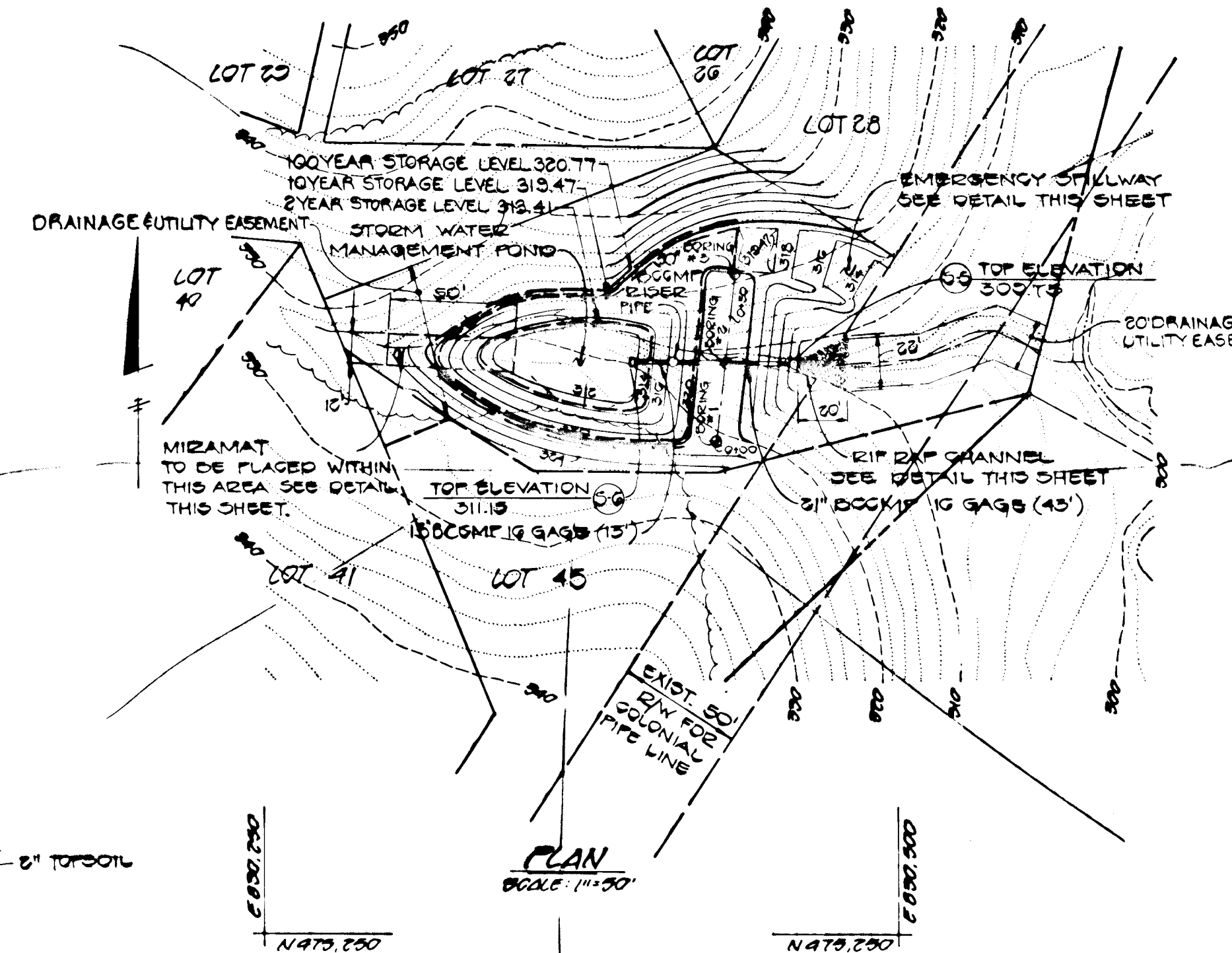
Backfill material shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall the contractor drive equipment over any part of a concrete structure or pipe unless there is a compacted fill of twenty-four inches or greater over the structure or pipe.



- 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.
 - Disassembled 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 lugs for connecting collars to pipe.

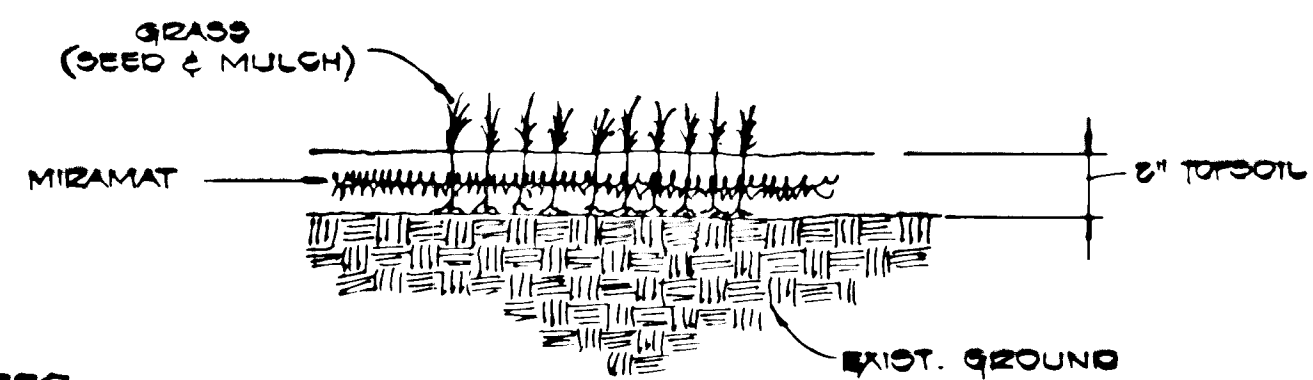
CORRUGATED METAL ANTI-SEEP COLLAR DETAIL

NOT TO SCALE



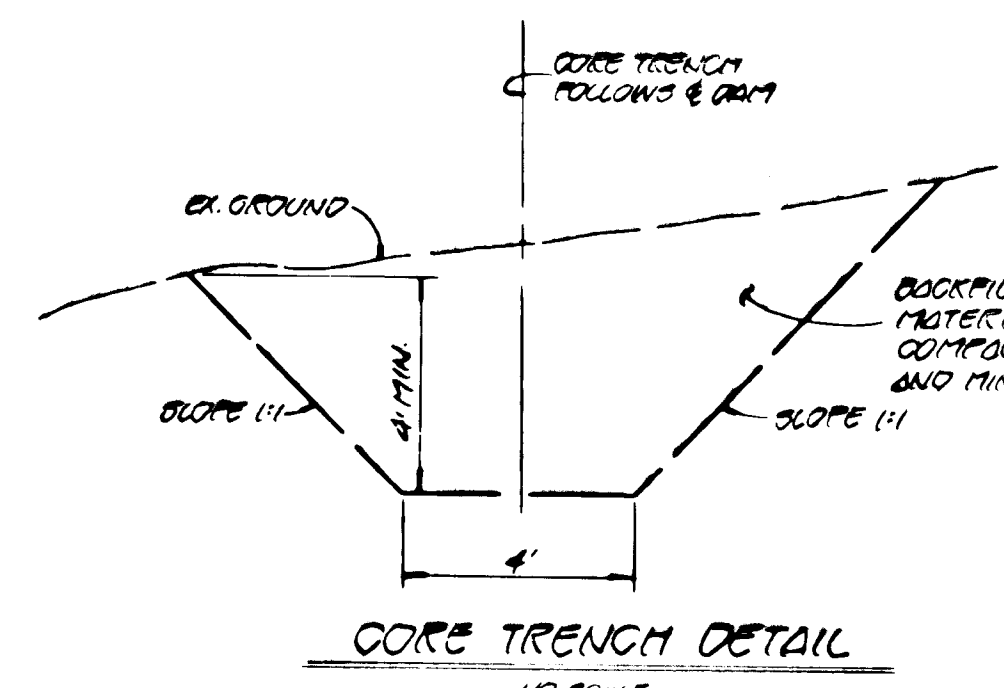
PLAN

SCALE: 1" = 50'



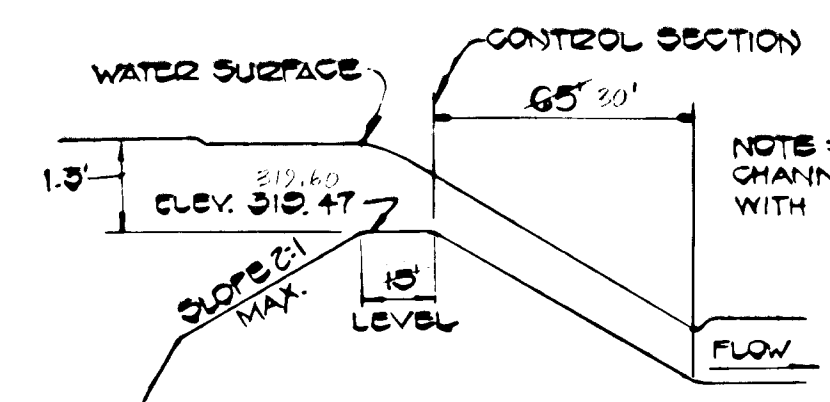
MIRAMAT PLACEMENT DETAIL

NO SCALE



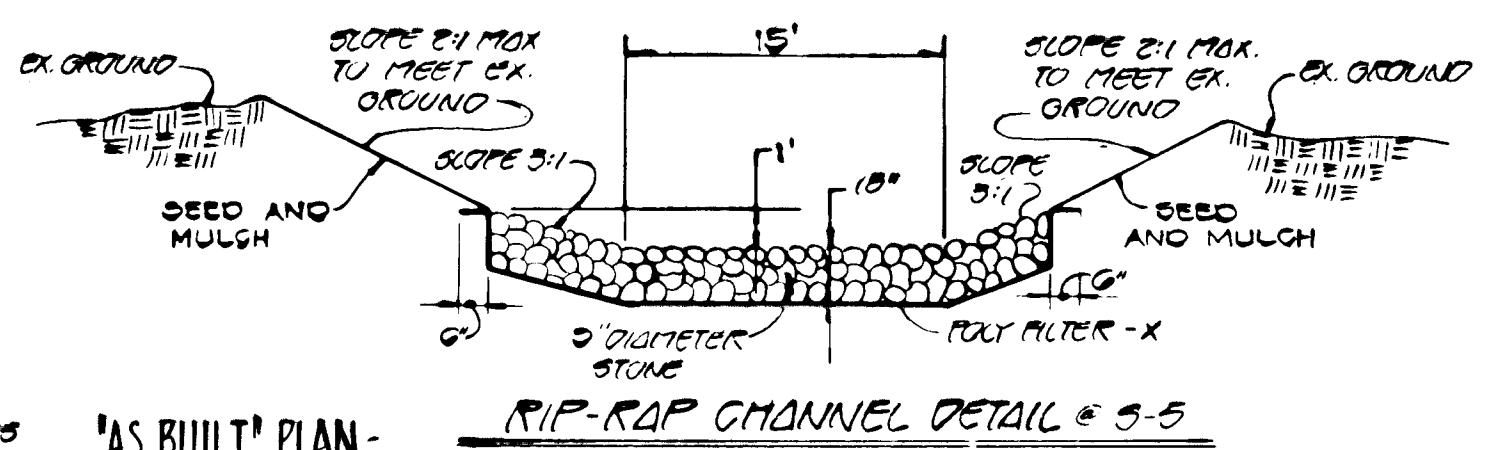
CORE TRENCH DETAIL

NO SCALE



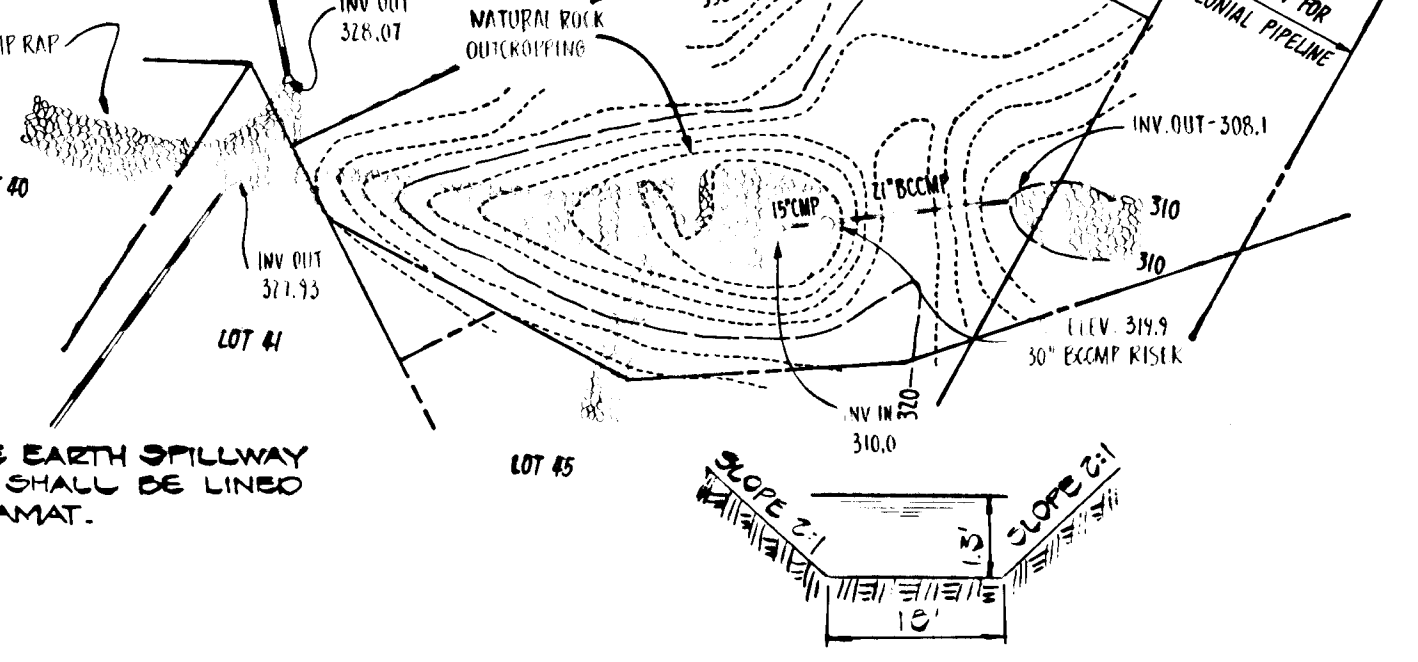
PROFILE ALONG EARTH SPILLWAY

NO SCALE



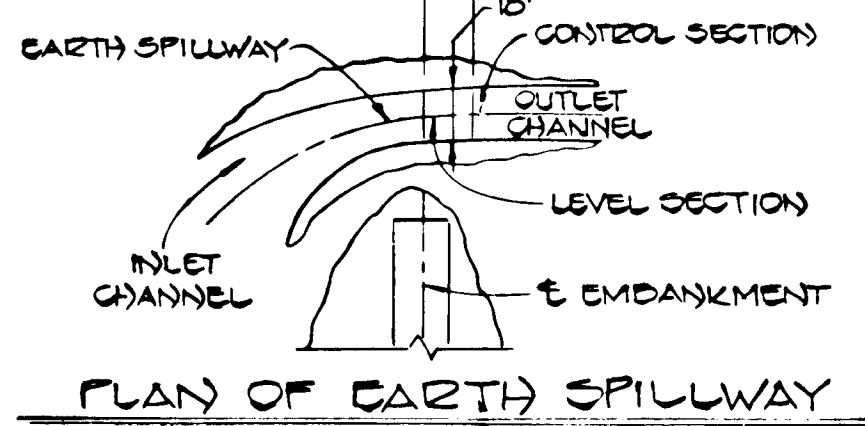
'AS BUILT' PLAN - SWM POND

SCALE: 1" = 50'



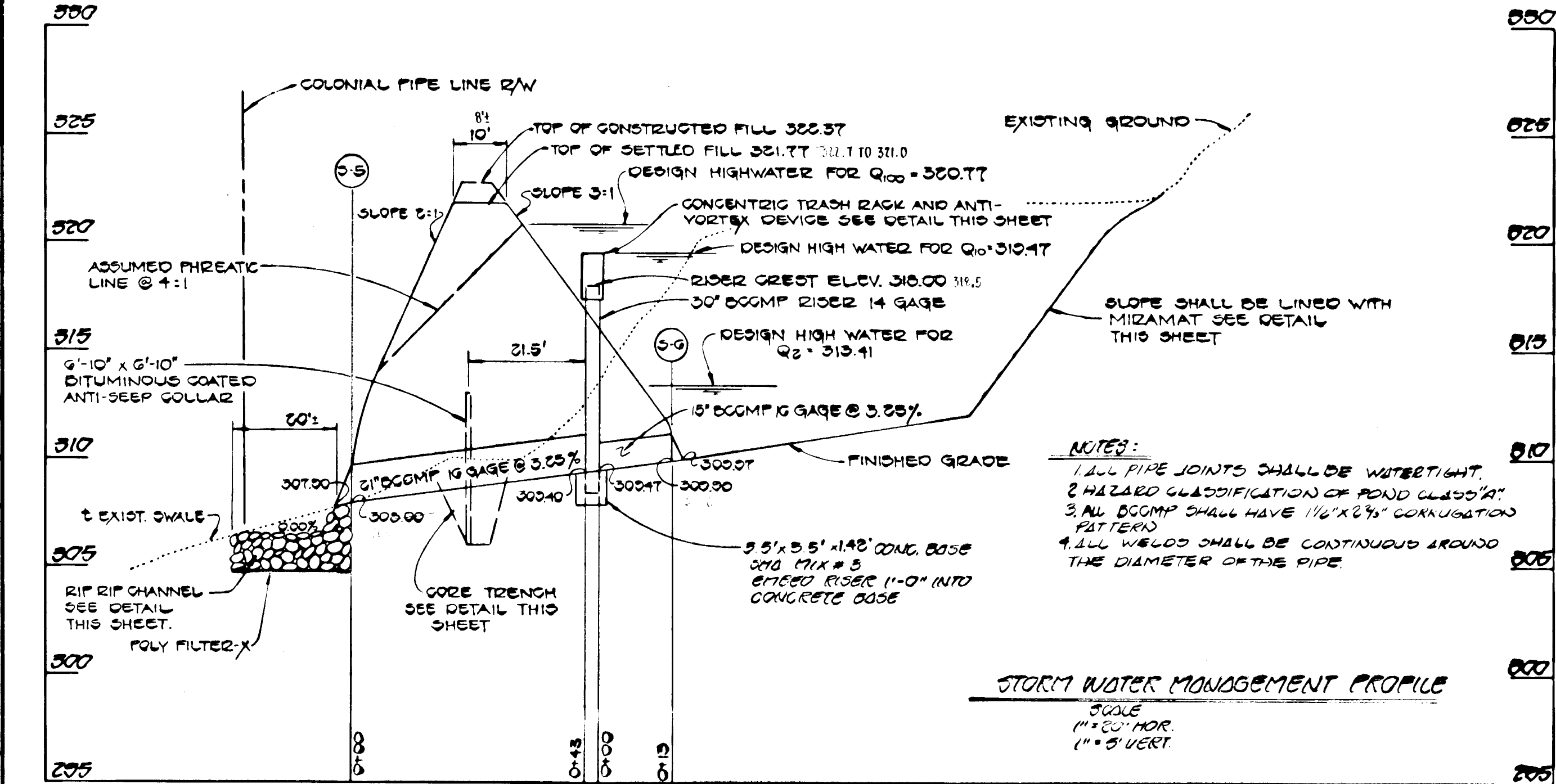
GROSS SECTION OF EARTH SPILLWAY AT CONTROL SECTION

NO SCALE



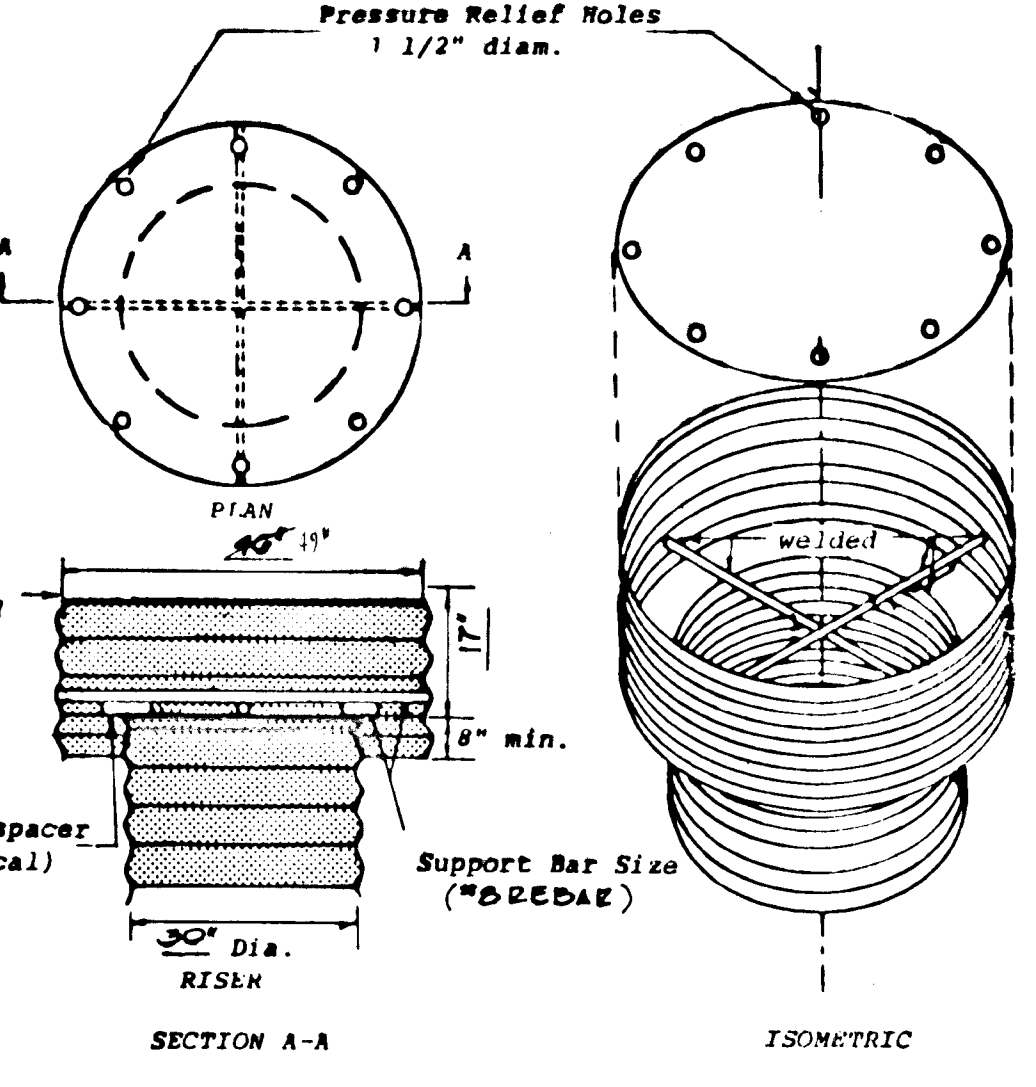
PLAN OF EARTH SPILLWAY

NO SCALE



STORM WATER MANAGEMENT PROFILE

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



CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE

(not to scale)

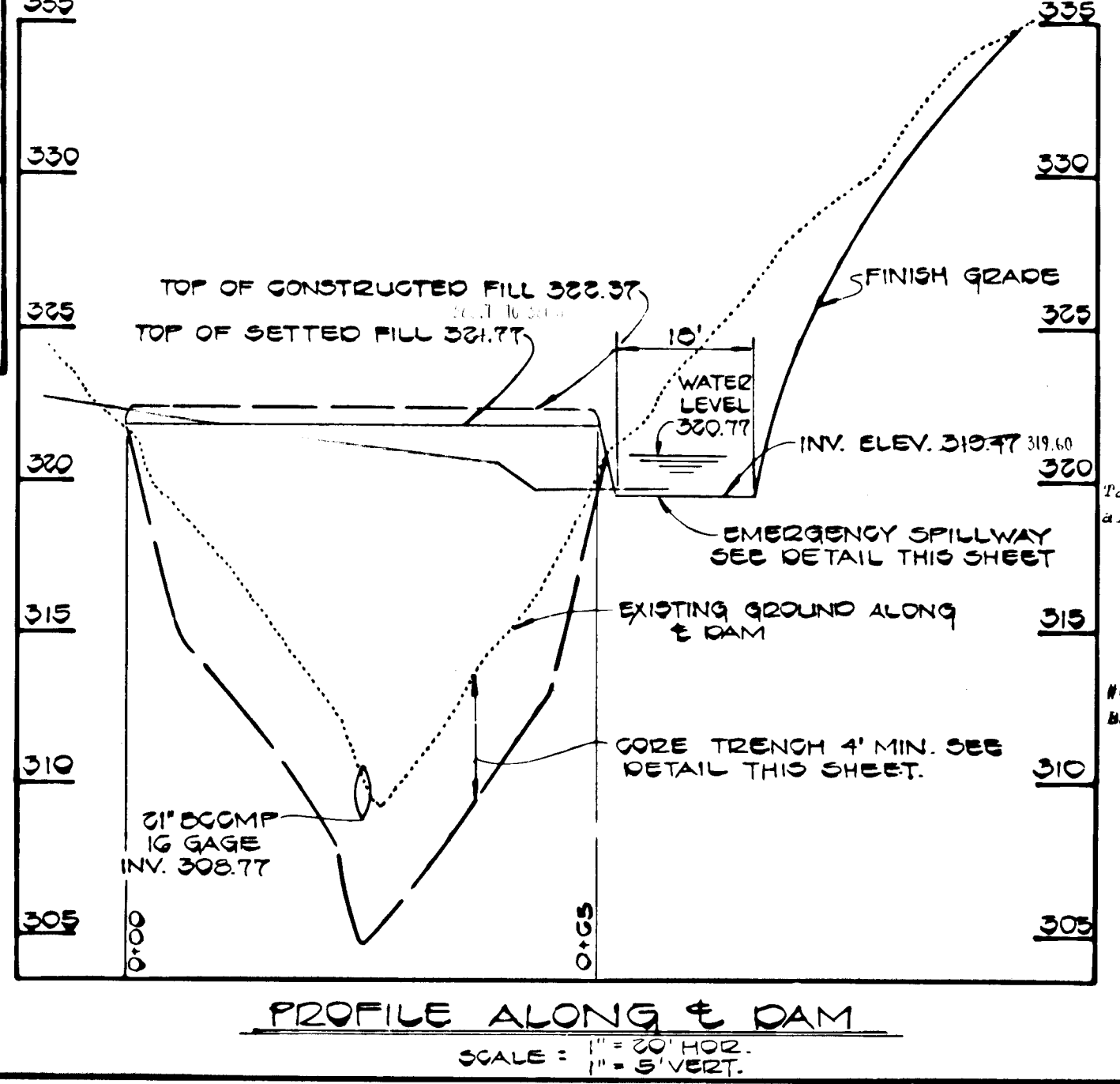
Top is 1/8" gage corrugated metal or 1/8" steel plate. Pressure relief holes may be omitted, if ends of corrugations are left fully open when corrugated top is welded to cylinder.

Cylinder is 1/2" gage corrugated metal pipe or fabricated from 1/8" steel plate.

- Notes:**
- The cylinder must be firmly fastened to the top of the riser.
 - Support bars are welded to the top of the riser or attached by straps bolted to top of riser.

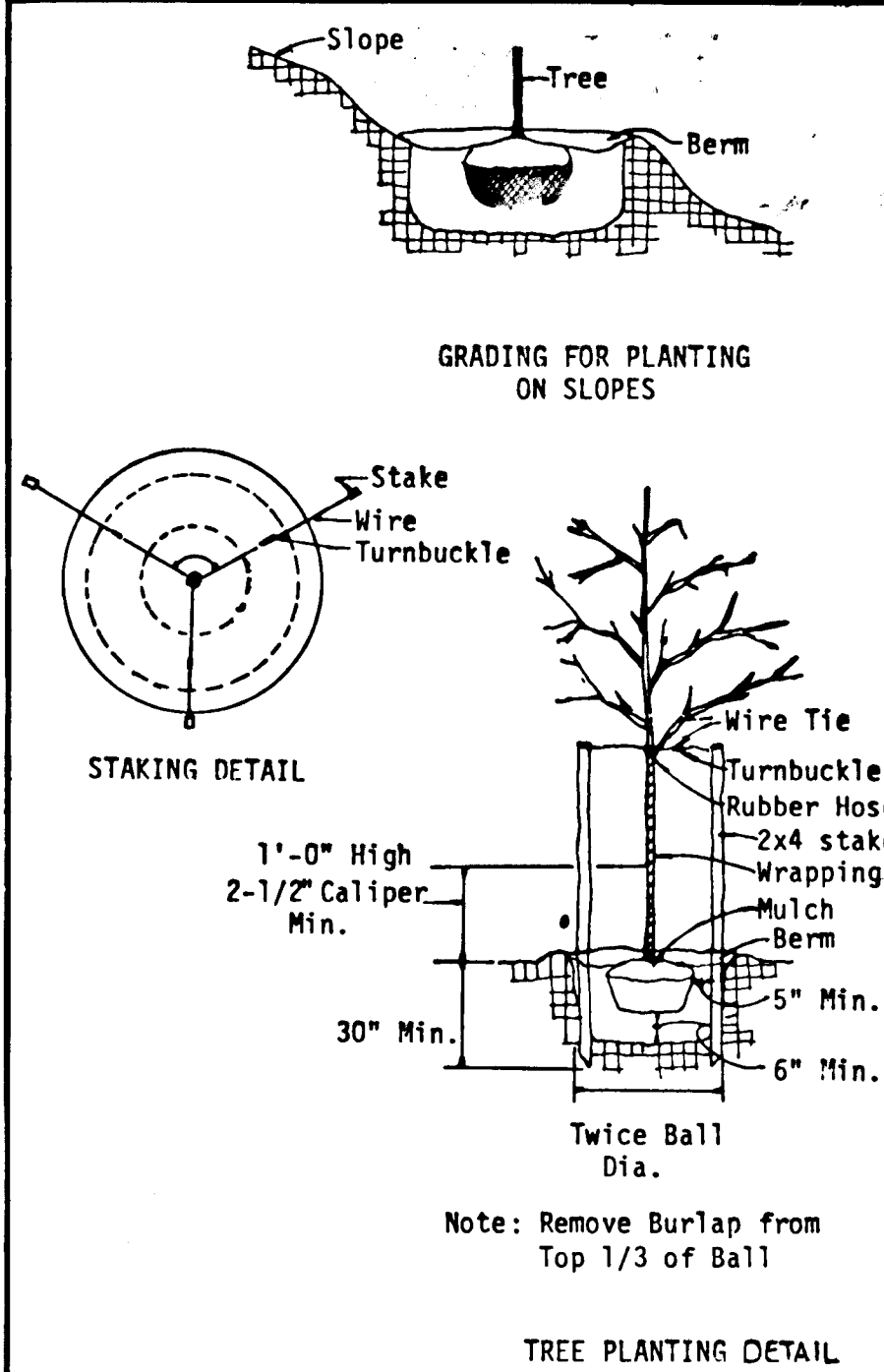
RISER DETAIL

NO SCALE



PROFILE ALONG E DAM

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



GRADING FOR PLANTING ON SLOPES

STAKING DETAIL

TREE PLANTING DETAIL

APPROVED: DEPARTMENT OF PUBLIC WORKS
 [Signature] DATE: 11-16-84

APPROVED: OFFICE OF PLANNING AND ZONING
 [Signature] DATE: 11-16-84

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] DATE: 11/84

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: 11/84

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] DATE: 11-16-84

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 [Signature] DATE: 11/84

FISHER, COLLINS AND CARTER, INC.
 CONSULTING ENGINEERS AND SURVEYORS
 6300 COURT AVENUE
 ELICOTT CITY, MARYLAND 21043
 TELEPHONE: (301) 461-2855

CHERRYTREE FARM SECTION I, AREA I
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

STORM WATER MANAGEMENT - POND PLAN, PROFILES & DETAILS

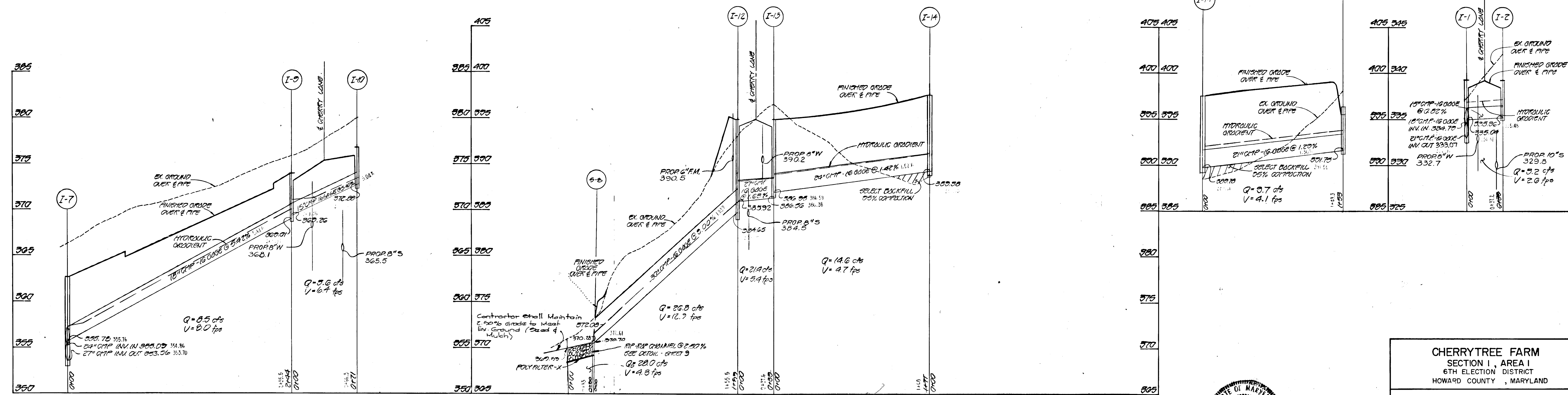
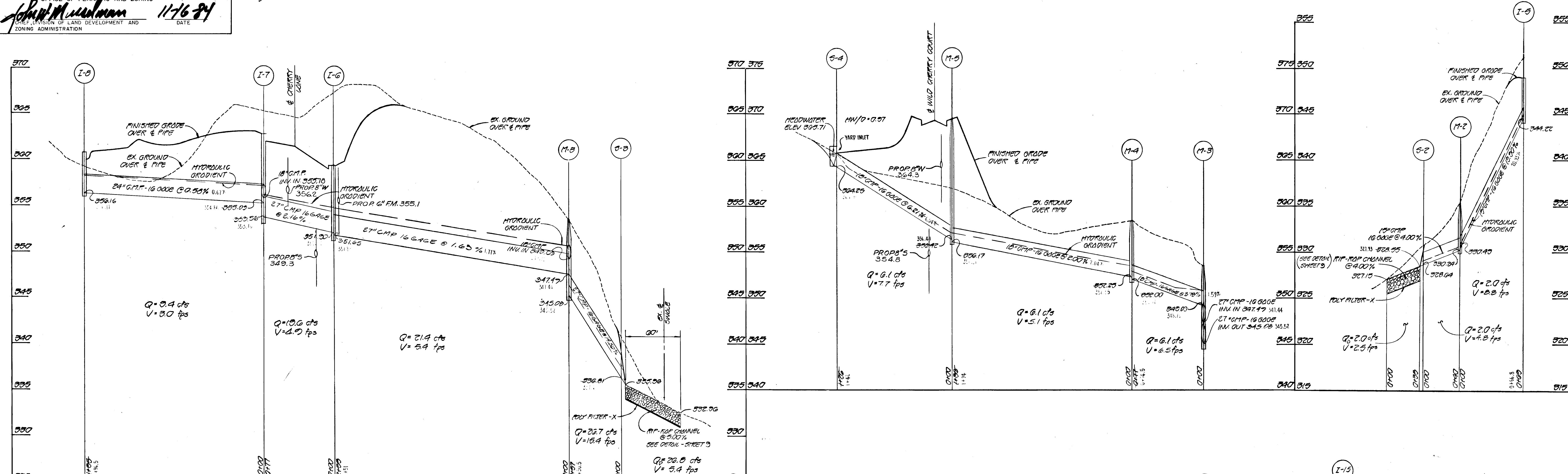
OWNER AND DEVELOPER
 WINCHESTER HOMES INC.
 6305 IVY LANE, SUITE 200
 GREENBELT, MARYLAND 20904

SCALE: AS SHOWN DATE: MAY 15, 1984 DWG. NO. 7 OF 15
 DES. C.J.CROVO DRN. W.HARDEN CHK. R.B.CARTER

[Signature] DATE: 11/84

APPROVED: DEPARTMENT OF PUBLIC WORKS
 Chief, Bureau of Engineering
 APPROVED: OFFICE OF PLANNING AND ZONING
 Chief, Division of Land Development and Zoning Administration

DATE: 11/2/84
 DATE: 11/16/84



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

#1109
 FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043



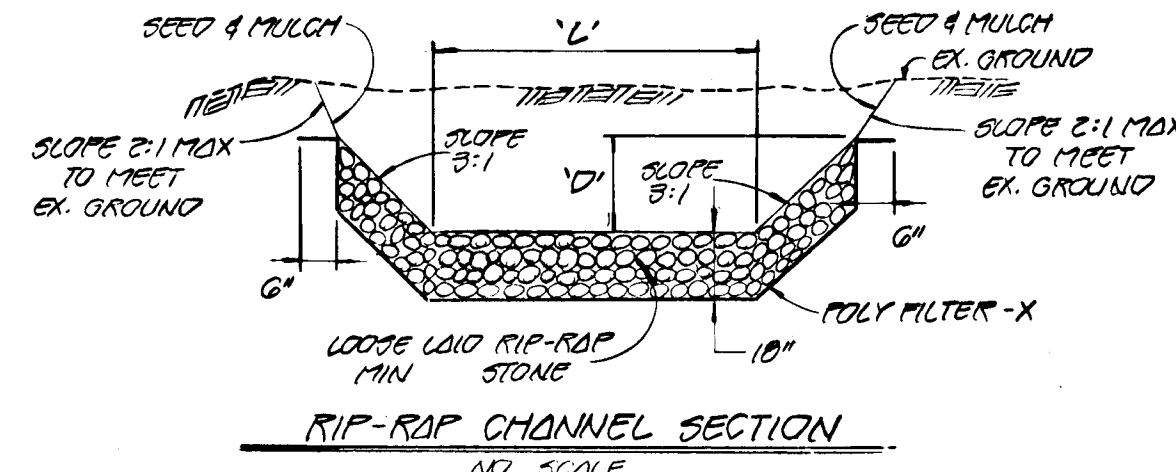
CHERRYTREE FARM
 SECTION I, AREA I
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

STORM DRAIN
 PROFILES

OWNER AND DEVELOPER
 WINCHESTER HOMES INC.
 6305 IVY LANE, SUITE 200
 GREENBELT, MARYLAND 20904

SCALE: AS SHOWN	DATE: MAY 15, 1984	DWG. NO. 8 OF 15
DES: C. CROVO	DRN: W. HARDEN	CHK: R. CARTER

APPROVED: DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF ENGINEERING
 APPROVED: OFFICE OF PLANNING AND ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

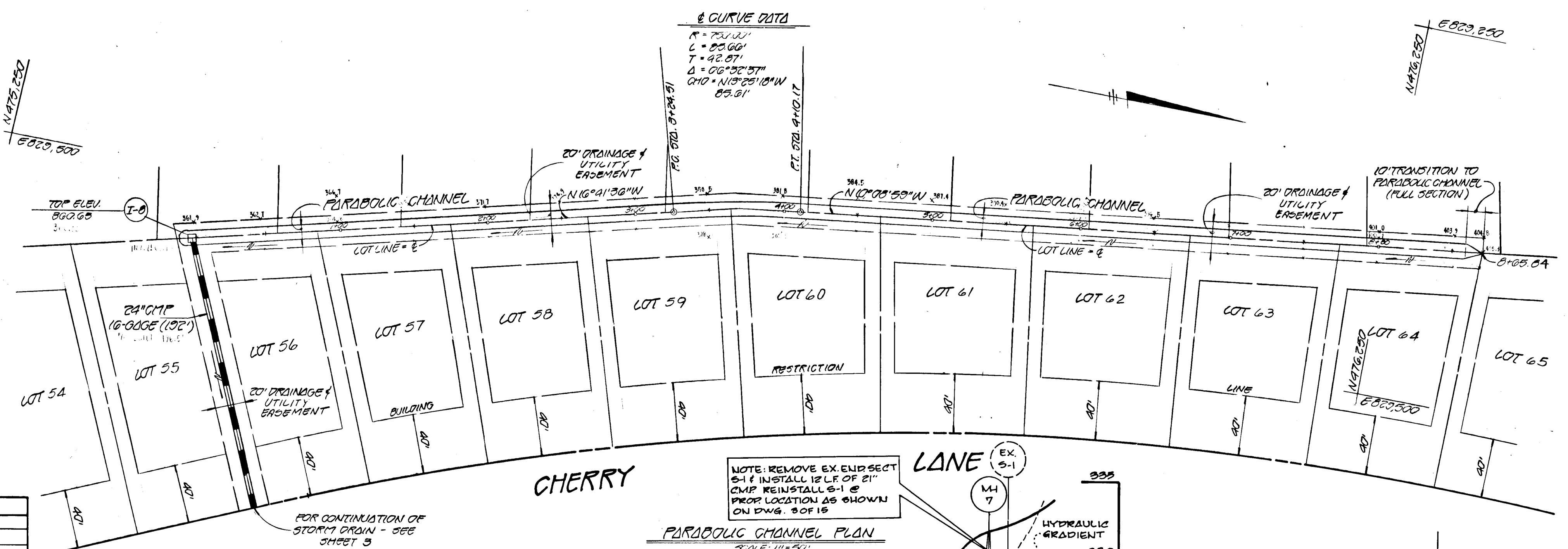


RIP-RAP CHANNEL DESIGN DATA

STATION	Q	V	S	D	L
0+00	13.5 cfs	2.75 fps	1.20%	0.77'	4.00'
0+25	28.0 cfs	4.20 fps	2.00%	0.66'	5.00'
0+50	26.0 cfs	6.4 fps	0.22%	0.70'	5.00'
0+75	2.0 cfs	0.81 fps	0.00%	0.25'	5.00'

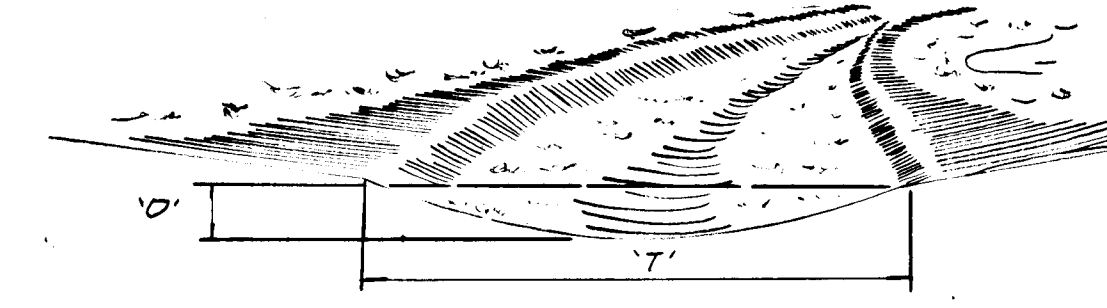
LOSSES @ MH 7

1xK (1.58)	0.58'
1xK (1.19 - 1.78)	0.59'
1xK (0.20)	0.20'
1xK (0)	0.00'
TOTAL	1.37'

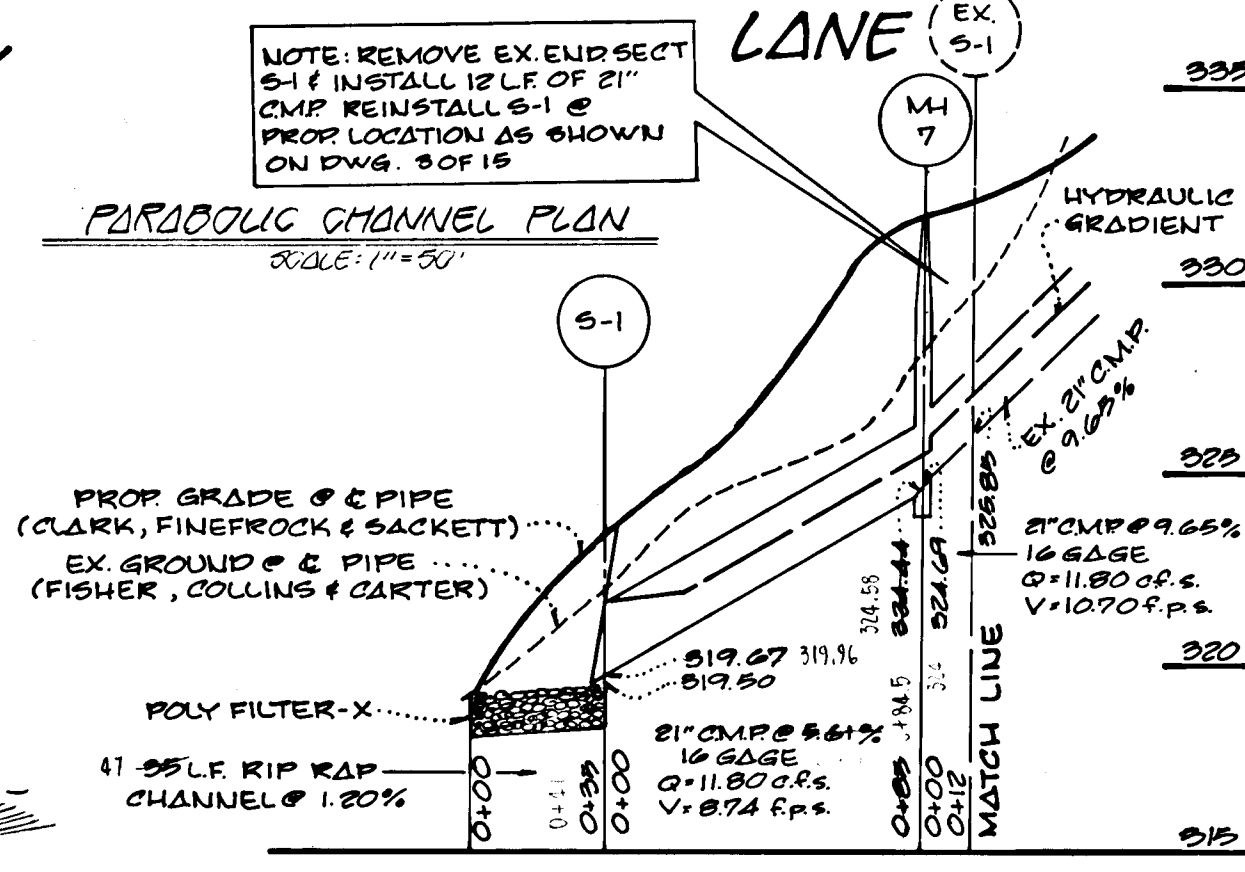


PARTIAL VELOCITY FROM MH 7 TO 5-1
 $Q = 11.80 \text{ cfs}$
 $V = 1.180 \text{ fpm}$
 $S = 0.0022$
 $D = 0.96'$

LOSSES @ MH 7
 1xK (1.58) = 0.58'
 1xK (1.19 - 1.78) = 0.59'
 1xK (0.20) = 0.20'
 1xK (0) = 0.00'



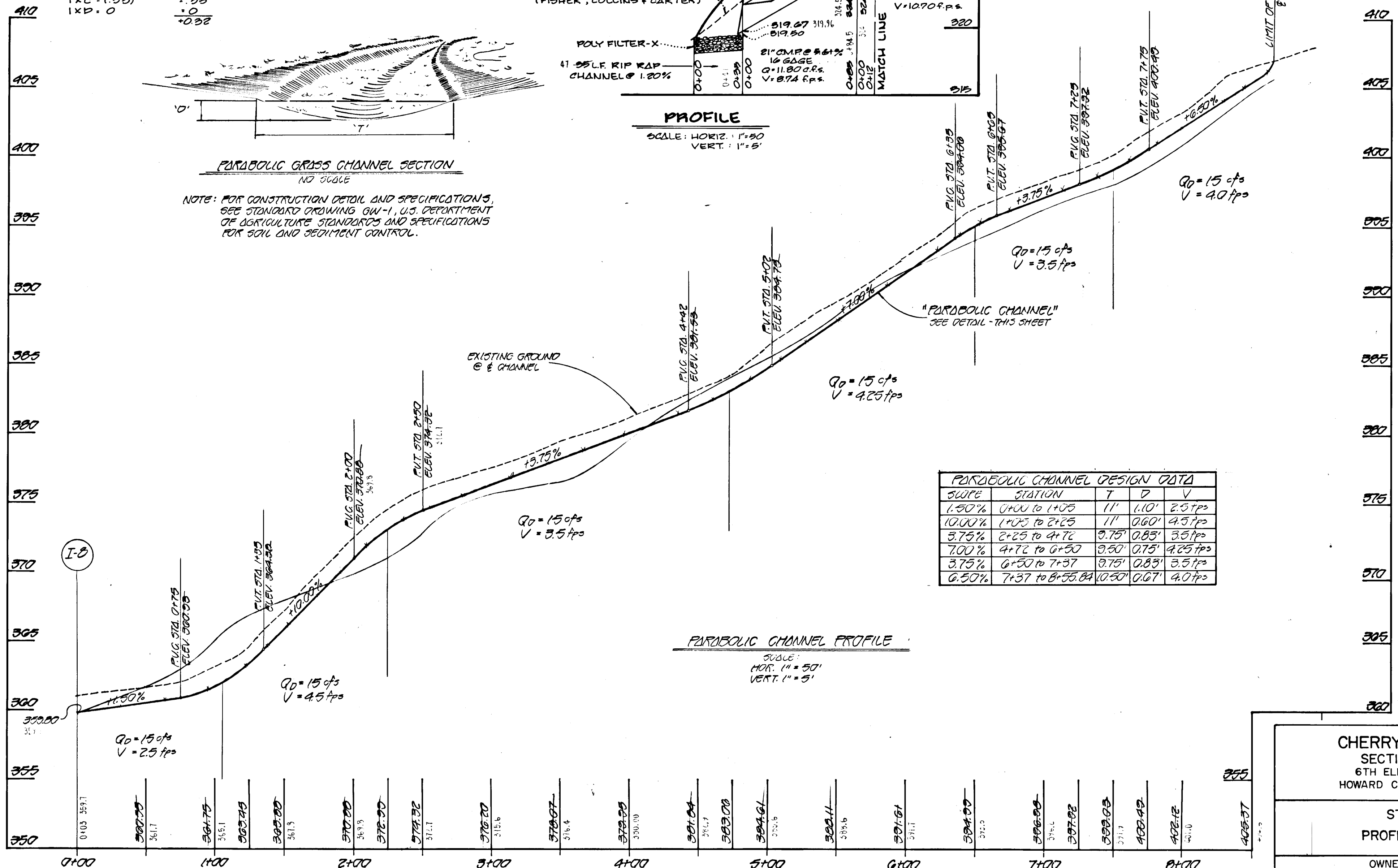
PARABOLIC GRASS CHANNEL SECTION
 NO SCALE
 NOTE: FOR CONSTRUCTION DETAIL AND SPECIFICATIONS, SEE STANDARD DRAWING GW-1, U.S. DEPARTMENT OF AGRICULTURE STANDARDS AND SPECIFICATIONS FOR SOIL AND SEDIMENT CONTROL.



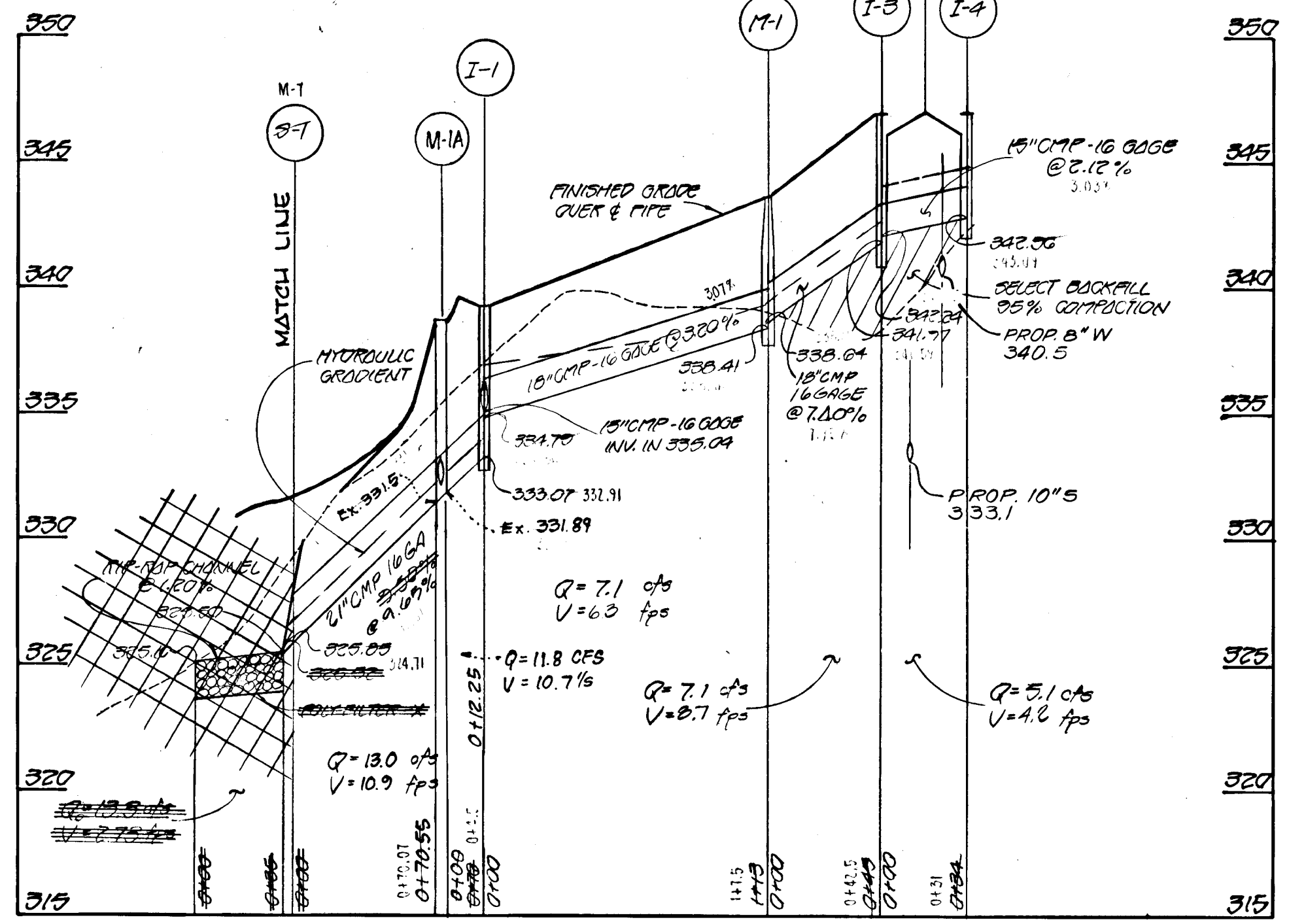
PROFILE
 SCALE: HORIZ. 1"=50' VERT. 1"=5'

PARABOLIC CHANNEL DESIGN DATA

SLOPE	STATION	T	D	V
1.20%	0+00 TO 0+25	11'	1.10'	2.75 fps
10.00%	0+25 TO 0+50	11'	0.60'	4.37 fps
3.75%	0+50 TO 0+75	9.75'	0.83'	3.37 fps
7.00%	0+75 TO 0+87	9.50'	0.75'	4.25 fps
3.75%	0+87 TO 0+97	9.75'	0.83'	3.37 fps
6.50%	0+97 TO 0+100	10.50'	0.67'	4.07 fps



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



CHERRYTREE FARM
 SECTION 1, AREA 1
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

STORM DRAIN
 PROFILES AND DETAILS

OWNER AND DEVELOPER
 WINCHESTER HOMES INC.
 6305 IVY LANE, SUITE 200
 GREENBELT, MARYLAND 20904

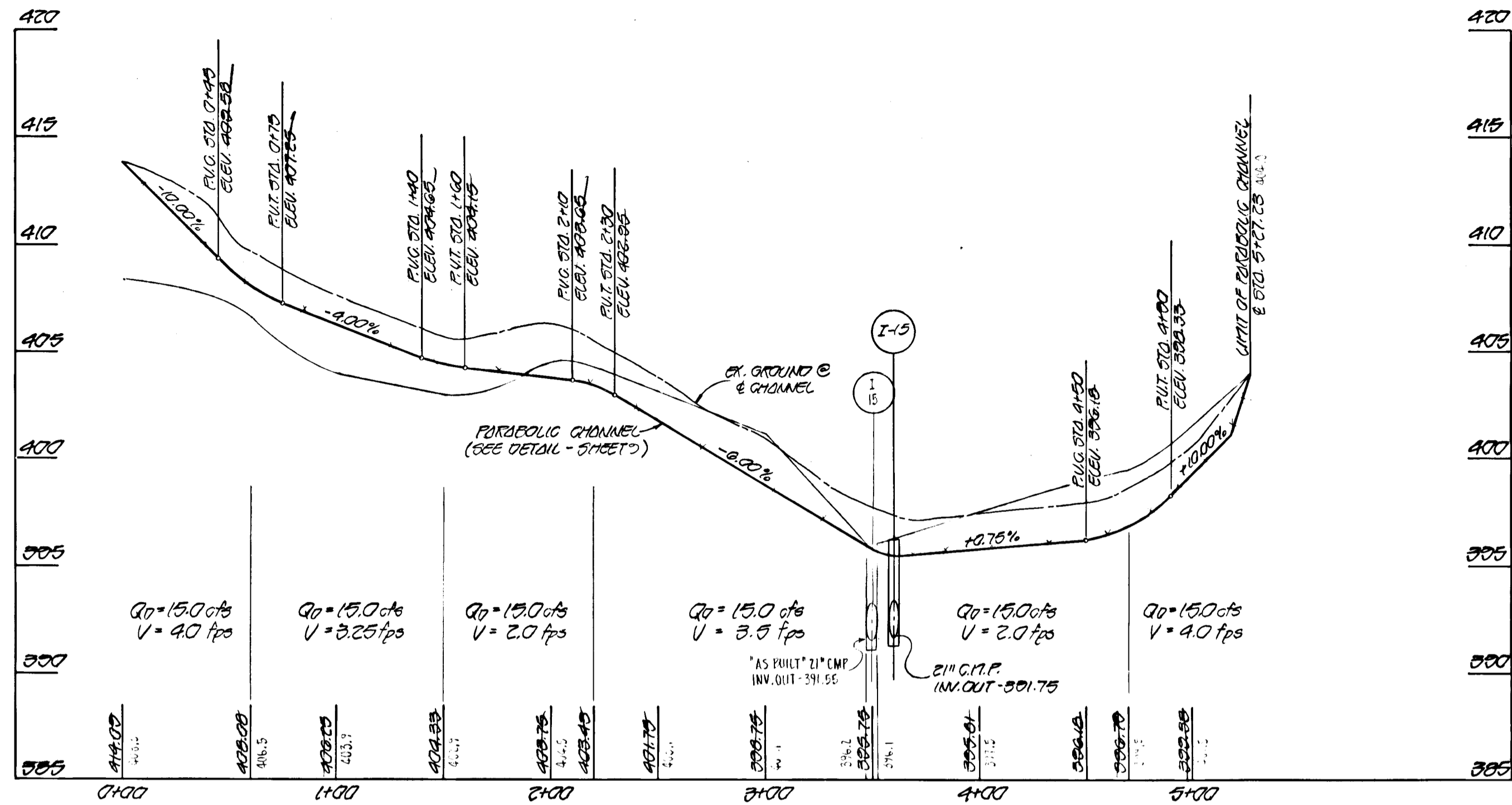
SCALE: AS SHOWN DATE: MAY 15, 1984 DWG. NO. 9 OF 15
 DES: C. CROVO DRN: W. HARDEN CHK: R. CARTER

1109
 FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043

APPROVED: DEPARTMENT OF PUBLIC WORKS
W. R. ... 11-20-84
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: OFFICE OF PLANNING AND ZONING
John Muschman 11-16-84
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

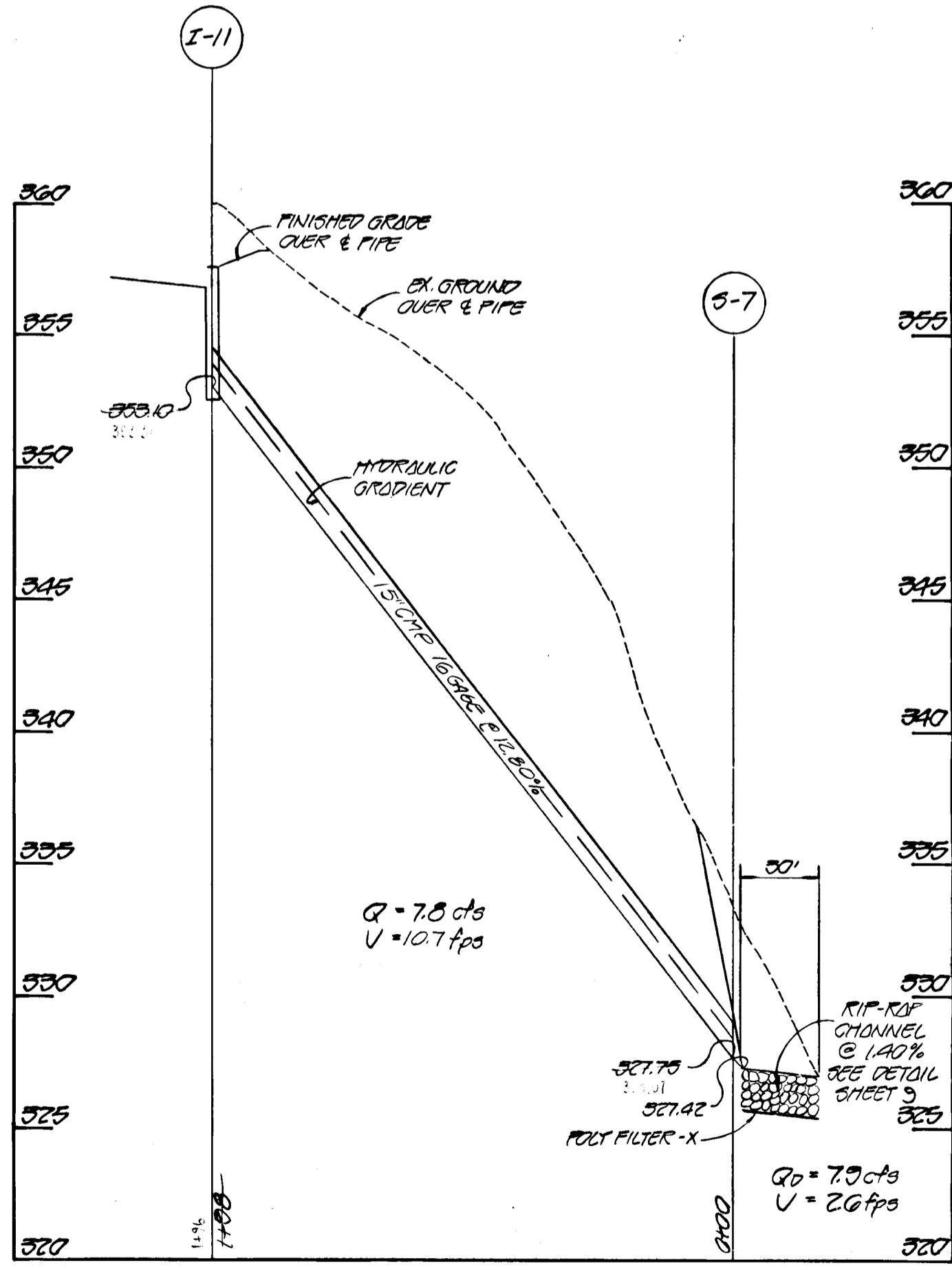
SLOPE	STATION	T	D	V
10.00%	0+00 to 0+60	15'	0.6'	40 fps
4.00%	0+60 to 1+50	12'	0.75'	32.5 fps
1.00%	1+50 to 2+20	15'	1.1'	20 fps
0.00%	2+20 to 3+50	15'	0.7'	35 fps
0.75%	3+50 to 4+70	12'	1.5'	20 fps
10.00%	4+70 to 5+27.23	15'	0.6'	40 fps



PARABOLIC CHANNEL PROFILE

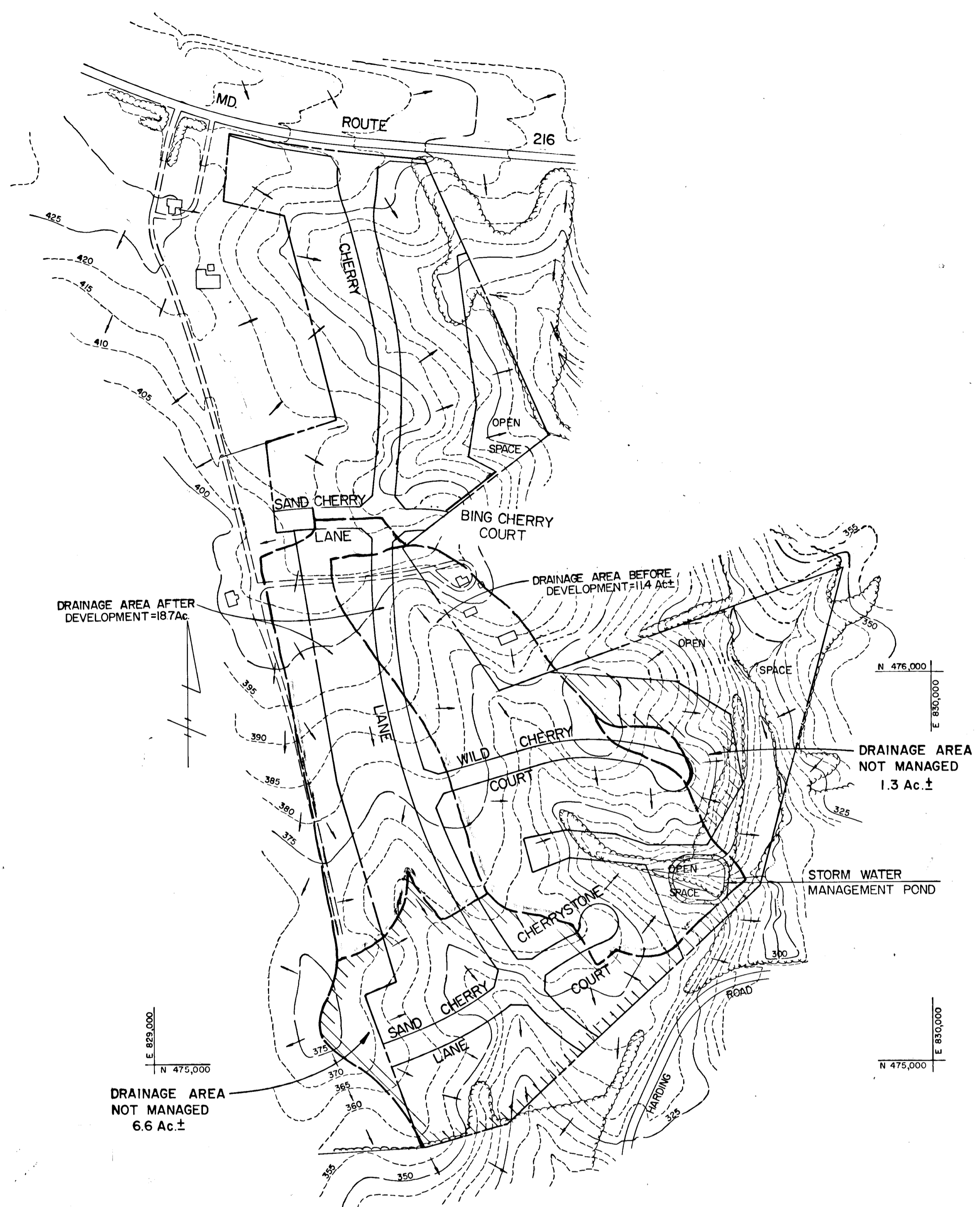
SCALE:
 1" = 50' HOR.
 1" = 5' VERT.

NO.	TYPE	INV. IN	INV. OUT	TOP ELEV.	REMARKS
I-1	Δ-5 W/DEFLECTORS	333.04	334.21	330.22	DRWG. 50-401400-4.83
I-2	"	"	335.06	330.22	"
I-3	"	342.24	341.97	346.70	DRWG. 50-401400-4.83
I-4	Δ-5 W/DEFLECTORS	"	342.06	346.70	DRWG. 50-402400-4.83
I-5	Δ-5	"	344.22	340.00	DRWG. 50-4.01
I-6	Δ-5 W/DEFLECTORS	351.70	351.65	353.40	DRWG. 50-401400-4.83
I-7	Δ-5 W/DEFLECTORS	355.66	355.26	350.40	DRWG. 50-401400-4.83
I-8	(4 SIDES OPEN) X INLET GRATE	"	356.16	360.63	DRWG. 50-4.13
I-9	Δ-10 W/DEFLECTORS	360.26	360.01	370.53	DRWG. 50-402400-4.83
I-10	Δ-5 W/DEFLECTORS	"	372.00	376.00	DRWG. 50-4.01 & 50-4.83
I-11	Δ-10	"	353.10	357.60	DRWG. 50-4.02
I-12	Δ-5	385.02	384.65	384.02	DRWG. 50-4.01
I-13	Δ-10	386.25	386.56	384.02	DRWG. 50-4.02
I-14	Δ-10 W/DEFLECTORS	388.70	388.00	387.60	DRWG. 50-402400-4.83
I-15	(4 SIDES OPEN) X INLET GRATE	"	381.75	386.53	DRWG. 50-4.13
S-1	STD. METAL END SEC.	"	319.67	321.42	DRWG. 50-5.01
S-2	"	"	320.64	320.00	"
S-3	"	"	326.01	320.01	"
S-4	"	"	324.29	320.75	"
S-5	"	"	328.00	320.75	"
S-6	"	"	328.90	311.15	"
S-7	"	"	327.75	320.00	"
S-8	"	"	370.70	375.20	DRWG. 50-5.61
M-1A	Brick Manhole 48" dia	331.81/332.10	331.50	338.50	DRWG. 50-5.01
I-2A	D- Inlet	332.90	332.90	336.07	DRWG. 50-4.11
M-7	Δ-1 MANHOLE	324.67	324.04	331.00	DRWG. 50-5.01
M-1	Δ-1 MANHOLE	330.64	330.41	335.60	DRWG. 50-5.01
M-2	"	330.40	330.24	335.40	"
M-3	"	340.09	345.00	333.50	"
M-4	"	332.29	332.00	338.50	"
M-5	"	336.42	336.17	340.06	"
M-6	Δ-1 MANHOLE	337.50	337.43	370.00	DRWG. 50-5.01



STORM DRAIN PROFILE

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



DRAINAGE AREA MAP

FOR STORM WATER
 MANAGEMENT POND

SCALE: 1" = 200'

CHERRYTREE FARM
 SECTION I, AREA I
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

DRAINAGE AREA MAP AND STORM DRAIN PROFILES

OWNER AND DEVELOPER
 WINCHESTER HOMES INC.
 6305 IVY LANE, SUITE 200
 GREENBELT, MARYLAND 20904

SCALE: AS SHOWN DATE: MAY 15, 1984 DWG. NO. 10 OF 15
 DES: C. GROVO DRN: W. HARDEN CHK: R. CARTER



#109
FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043

APPROVED: DEPARTMENT OF PUBLIC WORKS
 11-20-84
 CHIEF, BUREAU OF ENGINEERING
 APPROVED: OFFICE OF PLANNING AND ZONING
 11/16/84
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

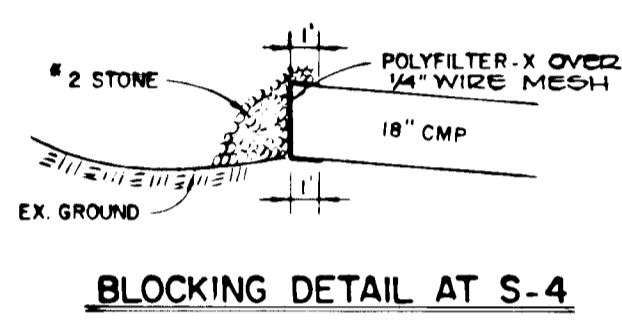
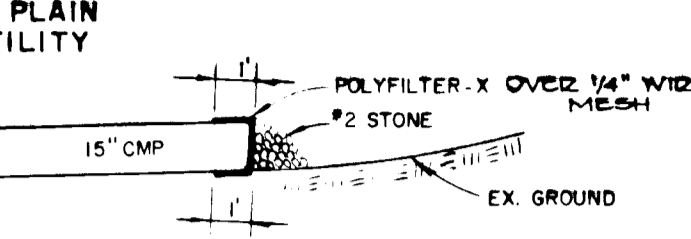
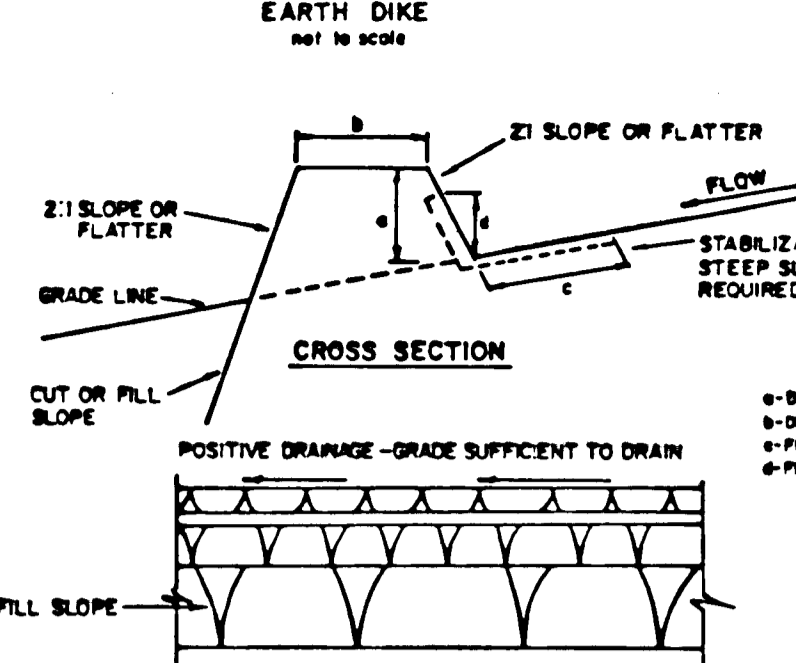
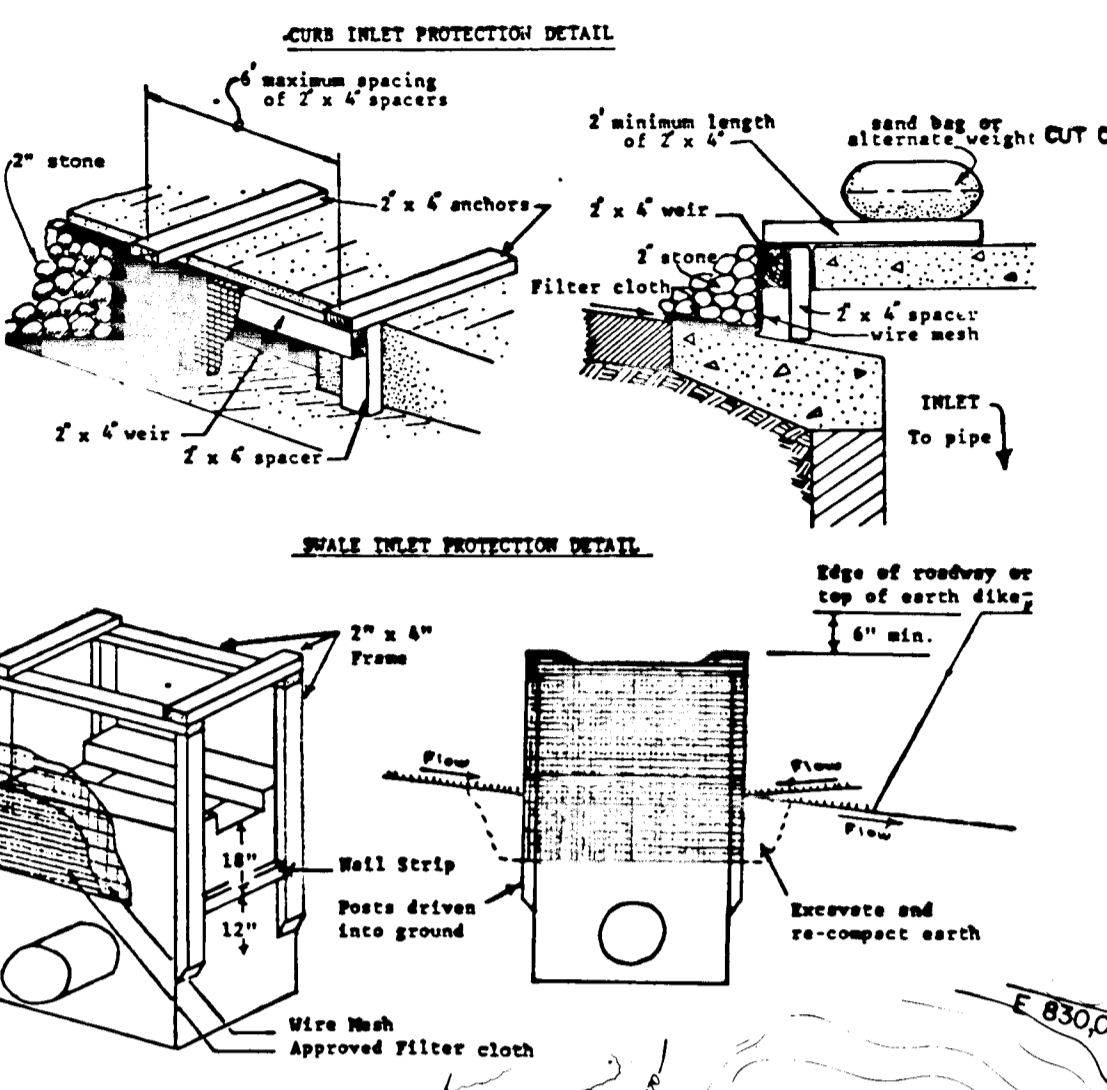
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: Robert W. Zickler (R) 11/16/84
 DISTRICT HOWARD SOIL CONSERVATION DISTRICT

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
 SIGNATURE OF ENGINEER 11/16/84
 DATE

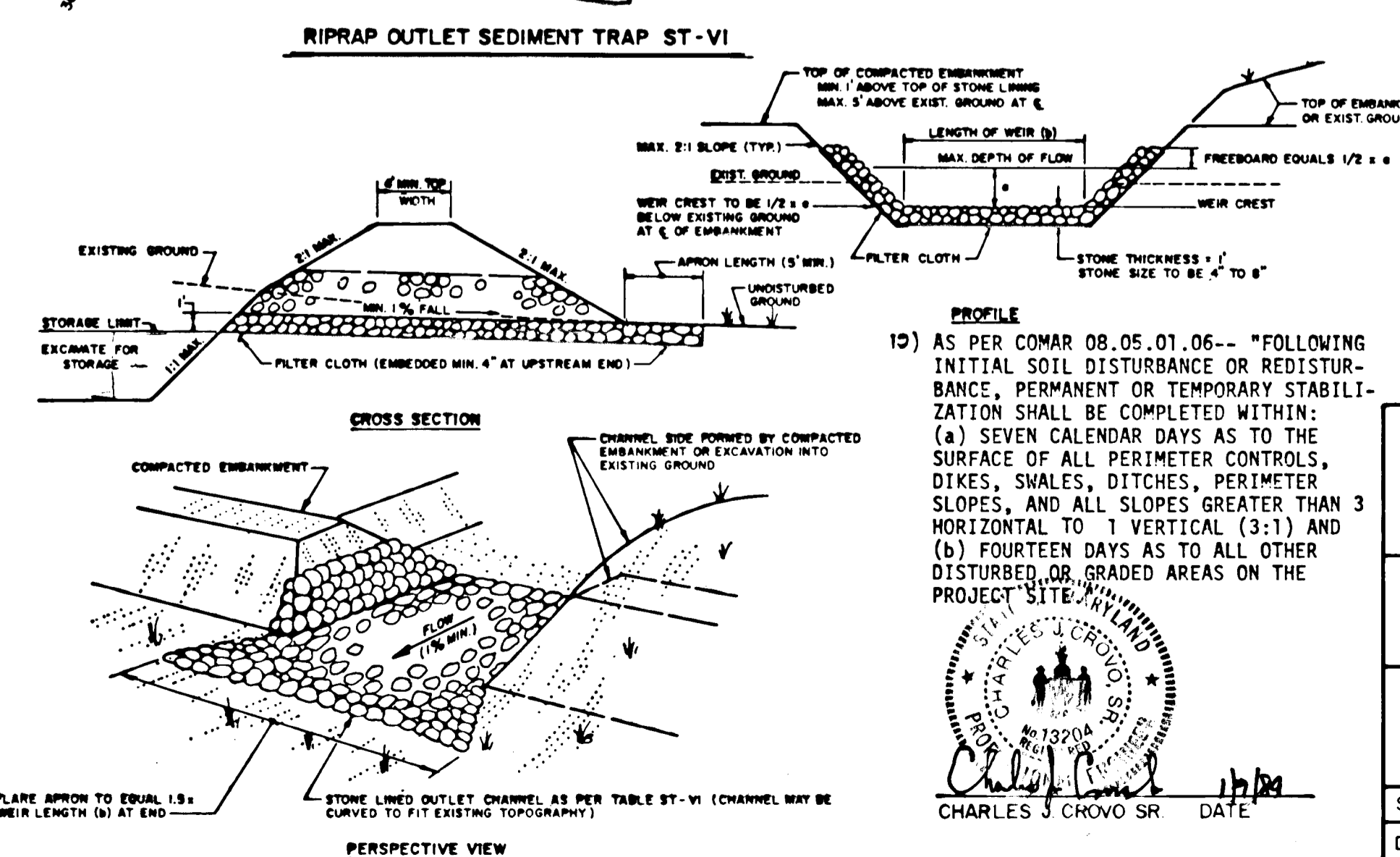
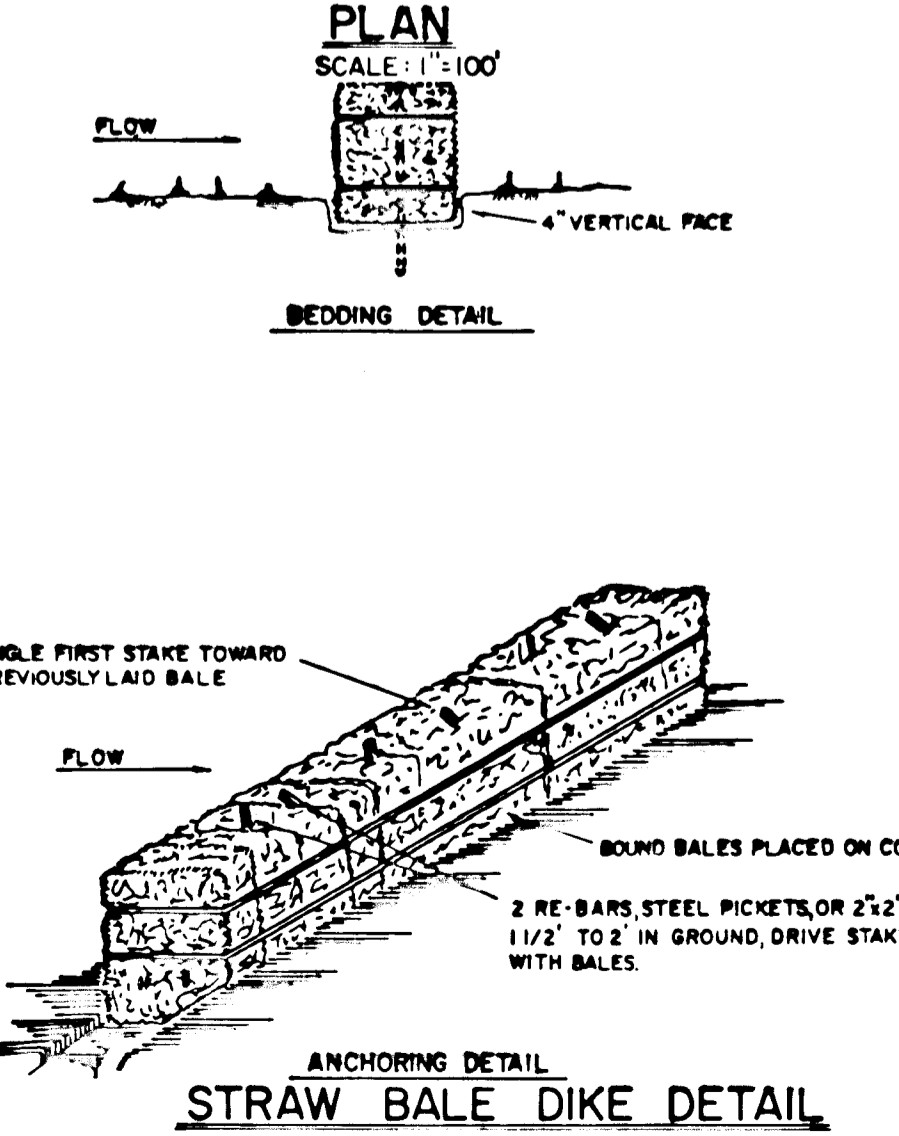
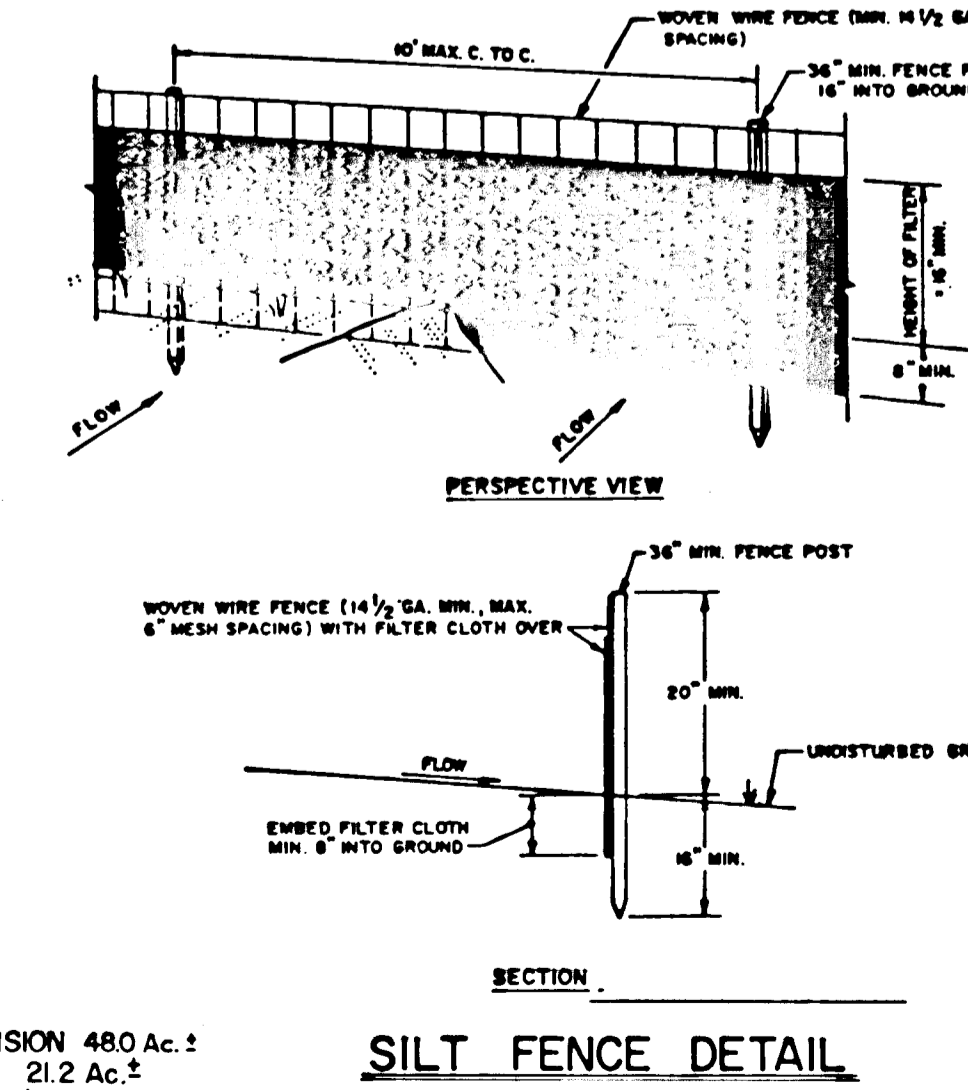
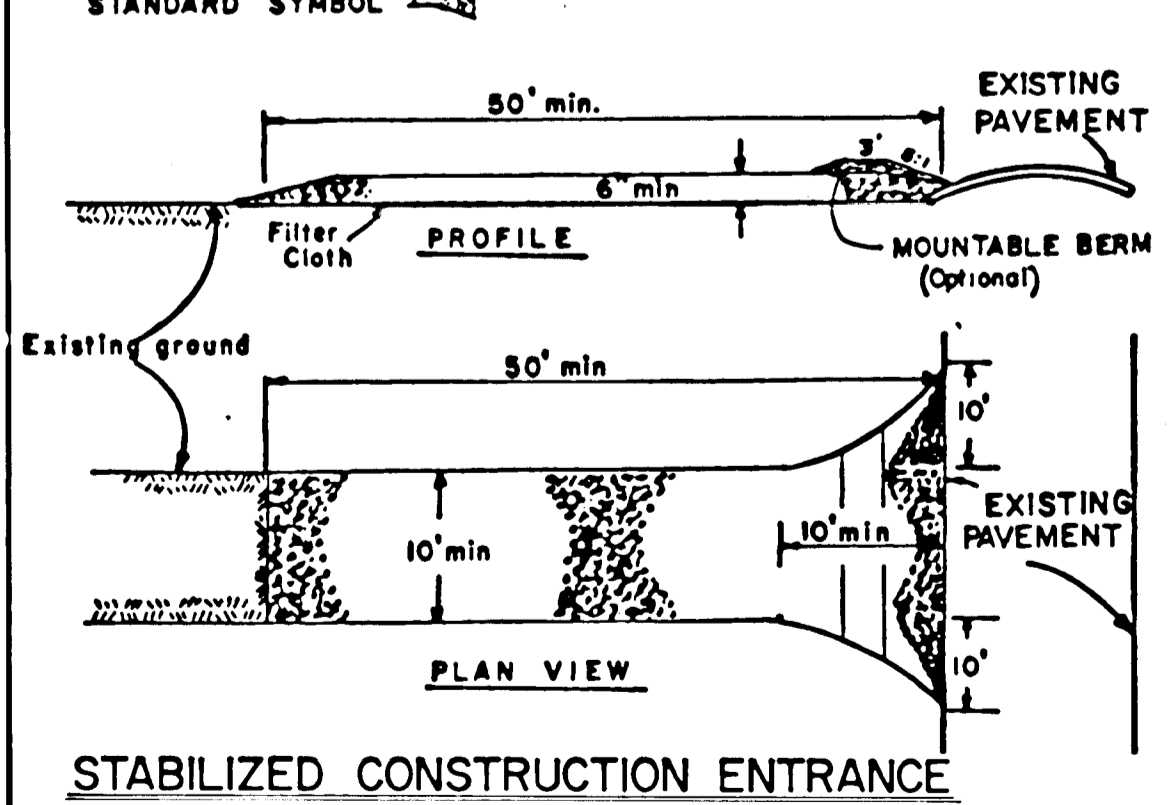
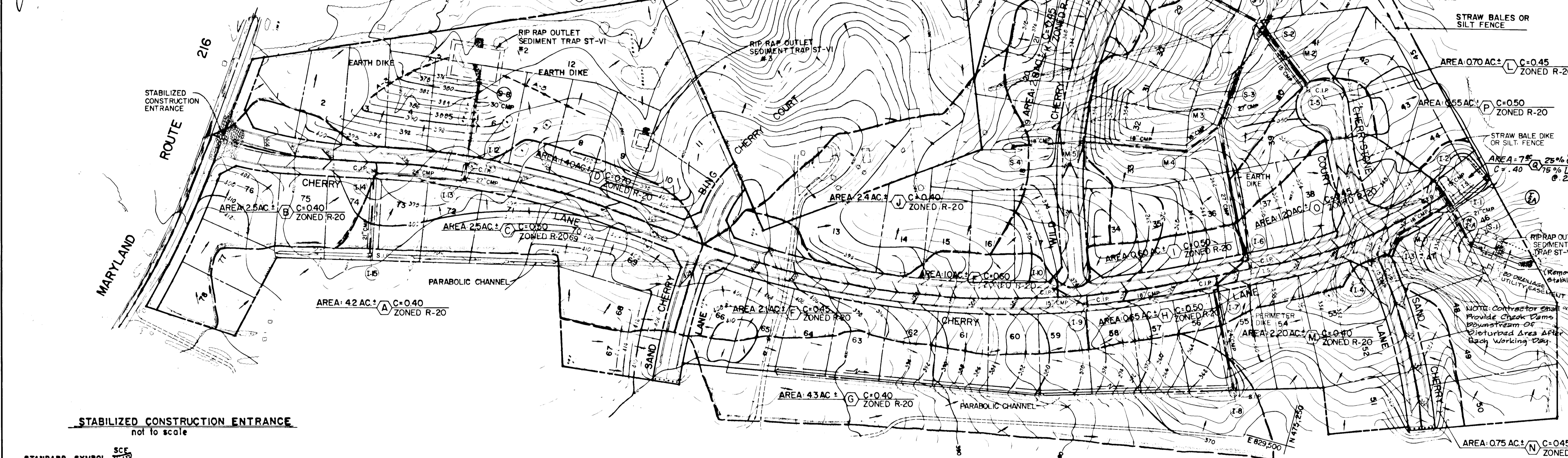
DEVELOPER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL 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 DEMAILED NECESSARY.
 DEVELOPED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 U.S. SOIL CONSERVATION SERVICE 11-16-84
 DATE

RIP RAP OUTLET SEDIMENT TRAP ST-VI							
NO.	TOP DIMENSIONS	BOTTOM DIMENSIONS	SIDE SLOPES	DEPTH	a	b	DRAINAGE AREA STORAGE REQUIRED STORAGE PROVIDED
1	50' x 74'	38' x 62'	2:1	3'	1.5'	12.0'	5.0 AC. + 9,045 CU. FT. 9,084 CU. FT.
2	100' x 83'	88' x 71'	2:1	3'	2.0'	14.0'	12.0 AC. + 21,078 CU. FT. 21,822 CU. FT.
3	36' x 35'	24' x 23'	2:1	3'	1.5'	5.0'	1.5 AC. + 2,714 CU. FT. 2,718 CU. FT.

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



- CONSTRUCTION SEQUENCE
- OBTAIN GRADING PERMIT.
 - CONSTRUCT STONE CONSTRUCTION ENTRANCE AT CHERRY LANE AND MARYLAND ROUTE 216.
 - CONSTRUCT SEDIMENT BASIN AND STABILIZE WITH TEMPORARY SEEDING.
 - THE 15" C.M.P. SHALL BE BLOCKED IN ACCORDANCE WITH THE DETAIL ON SHEET 11. THE 15" C.M.P. SHALL REMAIN BLOCKED UNTIL SUCH TIME WHEN THE SEDIMENT BASIN TRANSITIONS TO FUNCTION AS A STORM WATER MANAGEMENT POND.
 - CONSTRUCT STONE OUTLET SEDIMENT TRAPS.
 - INSTALL STRAW BALE DIKES AND PERIMETER DIKES.
 - PLACE ROADS TO SUBGRADE STABILIZING SLOPE AREAS BETWEEN EXISTING GROUND AND BACK OF CURB USING PERMANENT SEEDING. INSTALL INTERCEPTOR SHOALS.
 - CONSTRUCT STORM DRAIN SYSTEM AND INSTALL STONE FILTER INLET PROTECTION DEVICES AT INLETS.
 - LAY BASE COURSE.
 - UPON STABILIZATION OF GRADED AREAS, INLETS SHALL BE OPENED AND ALL ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE STORM DRAIN SYSTEM.
 - DURING CONSTRUCTION, SEDIMENT SHALL BE REMOVED FROM THE TRAPS WHEN THE CLEANOUT ELEVATION ONE-HALF THE DEPTH OF THE TRAP HAS BEEN REACHED.
 - THE SEDIMENT FROM THE BASIN SHALL BE REMOVED WHEN THE CLEANOUT ELEVATION 315.75 HAS BEEN REACHED.
 - AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON.
 - THE SEDIMENT BASIN SHALL BE DEWATERED BY PUMPING.
 - CLEAN BASE COURSE. APPLY TACK COAT TO BASE COURSE. LAY SURFACE COURSE, CONCRETE CURB AND STABILIZE SHOULDERS.
 - THE SEDIMENT FROM THE TRAPS AND BASIN SHALL BE SPREAD ON THE LOTS ADJACENT TO THE TRAPS AND BASIN AND STABILIZED BY PERMANENT SEEDING.
 - PERMANENT SEEDING SPECIFICATIONS ONLY AFTER ENTIRE DRAINAGE AREA HAS BEEN STABILIZED AND NO FURTHER GRADING IS TO BE DONE WITHIN THE WATERSHED.
 - REMOVE EARTH DIKES, STRAW BALE DIKES, AND BACKFILL TRAPS ONLY AFTER THEIR CONTRIBUTING DRAINAGE AREAS HAVE BEEN PERMANENTLY STABILIZED WITH SEED AND MULCH.



1109
 FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8398 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043

SITE ANALYSIS
 TOTAL AREA OF SUBDIVISION 480 Ac.
 AREA TO BE DISTURBED 21.2 Ac.
 IMPERVIOUS AREA 4.5 Ac.
 AREA TO BE REVEGETATED 16.7 Ac.
 UNDISTURBED AREA 26.8 Ac.

CHERRYTREE FARM
 SECTION I, AREA I
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

DRAINAGE AREA MAP AND
 SEDIMENT CONTROL PLAN

OWNER AND DEVELOPER
 KEATS JOINT VENTURE
 SUITE 200
 7900 WISCONSIN AVENUE
 BETHESDA, MARYLAND 20814-3601

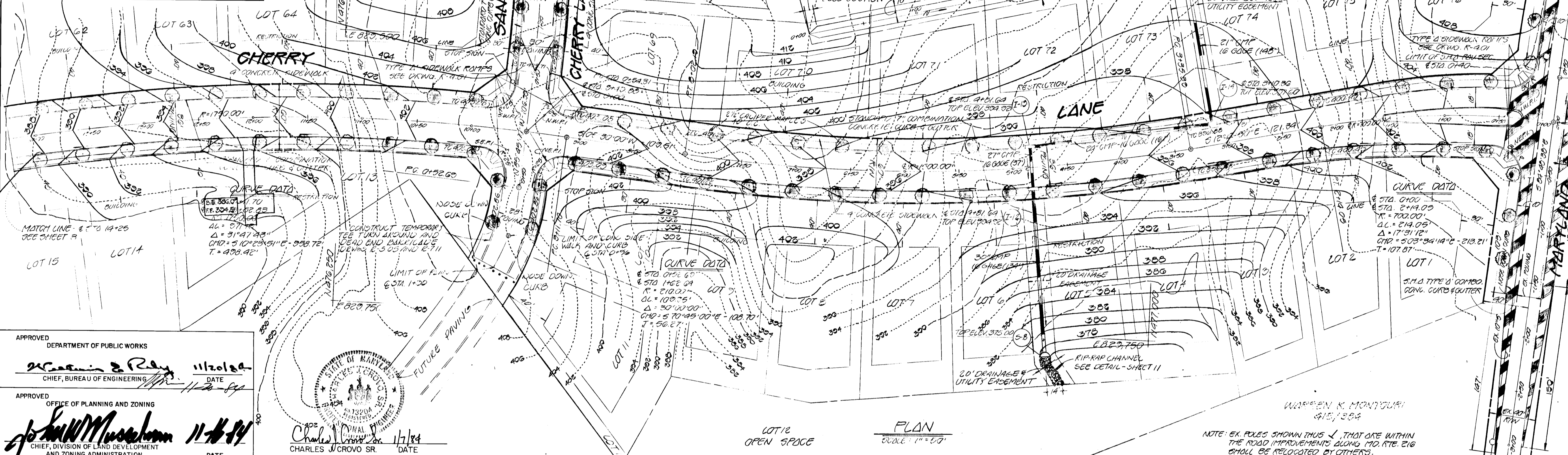
SCALE: AS SHOWN DATE: MAY 15, 1984 DWG. NO. 11 OF 15
 DES: C.J. CROVO DRN: A.M. VITUCCI CHK: R.B. CARTER

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

James M. Kuhn 11-16-84
U.S. SOIL CONSERVATION SERVICE DATE

SEMI-ARID DEVELOPMENT IS APPROVED FOR EROSION AND DISTRICT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

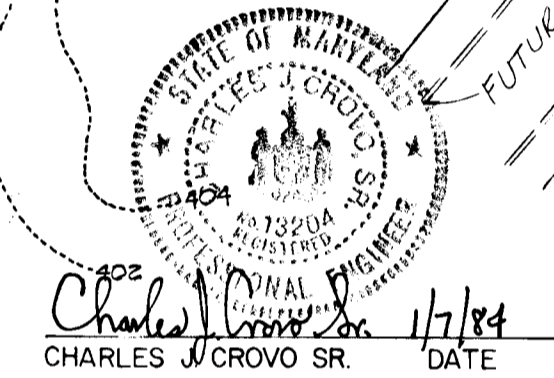
Robert W. Zidom (LPA) 11/16/84
DISTRICT DATE
HOWARD SOIL CONSERVATION DISTRICT



DENOTES SHO PAVING SECTION (SEE DETAIL - SHEET G)
NOTE: SEE SHEET G, FOR TYPICAL WIDENING SECTION ALONG MD. RTE. 210

APPROVED DEPARTMENT OF PUBLIC WORKS
William J. Reay 11/20/84
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED OFFICE OF PLANNING AND ZONING
John W. Muschmann 11-16-84
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE



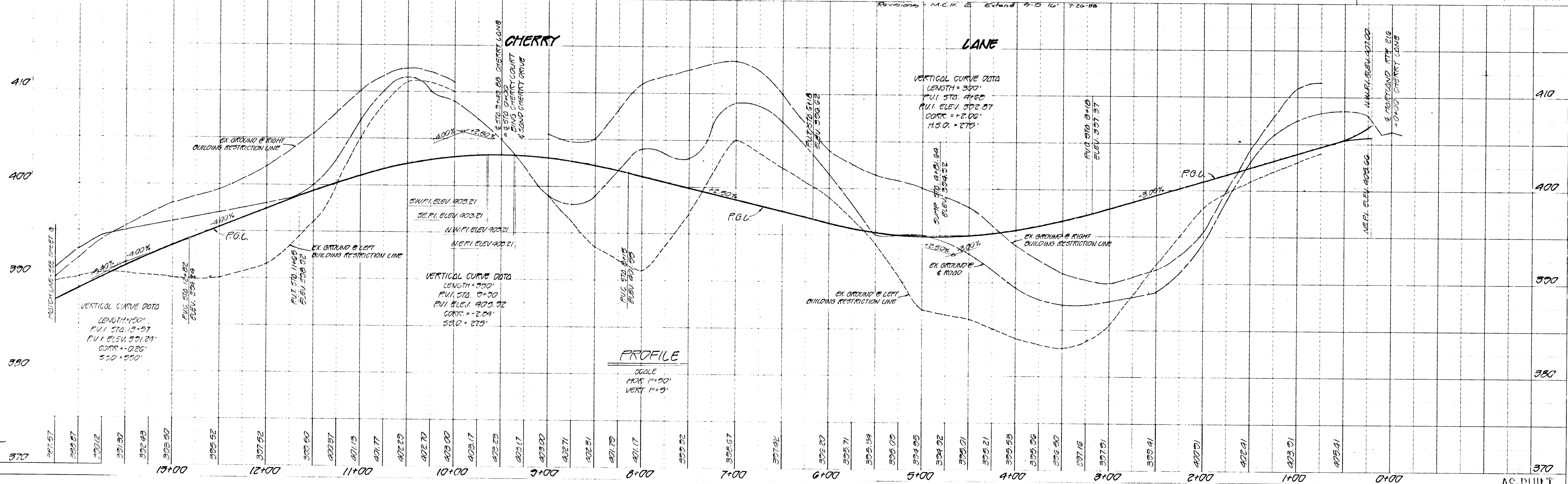
CHERRY TREE FARM
SECTION I, AREA I
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

CHERRY LANE
GRADING PLAN

OWNER AND DEVELOPER
WINCHESTER HOMES INC.
6305 IVY LANE, SUITE 200
GREENBELT, MARYLAND 20904

SCALE: AS SHOWN DATE: MAY 15, 1984 DWG. NO. 12 OF 15
DES.: C. CROVO DRN.: W. HARDEN CHK.: R. CARTER

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



#1109

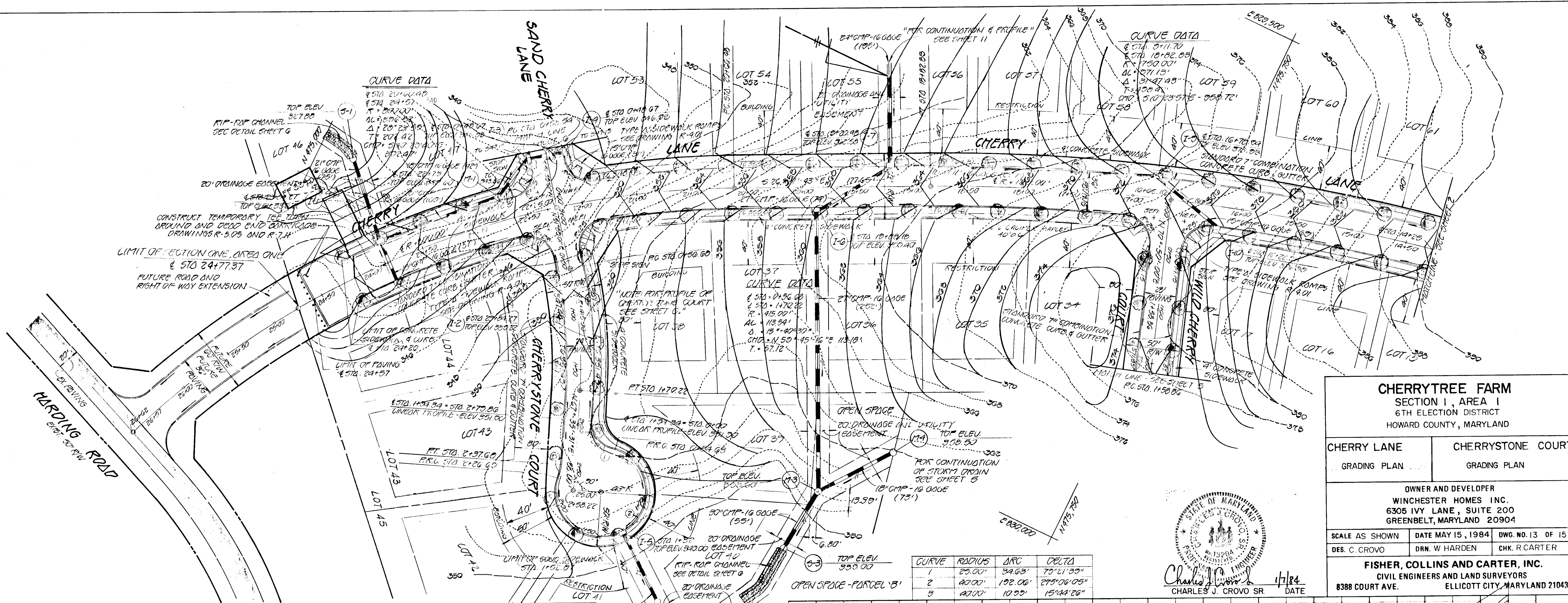
DATE	
BY	
PLAN	
SURVEYED	
ALIGNED	
CHECKED	
RT. OF WAY	
NOTE BOOK	
NO.	

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

James McNeil 11-16-84 DATE
U.S. SOIL CONSERVATION SERVICE
7/15 DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED:
Robert W. Zickm (SEA) 11/16/84 DATE
DISTRICT HOWARD SOIL CONSERVATION DISTRICT

APPROVED
DEPARTMENT OF PUBLIC WORKS
William E. Ray 11/16/84 DATE
CHIEF, BUREAU OF ENGINEERING

APPROVED
OFFICE OF PLANNING AND ZONING
John M. MacMahon 11-16-84 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION



CHERRYTREE FARM
SECTION I, AREA I
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

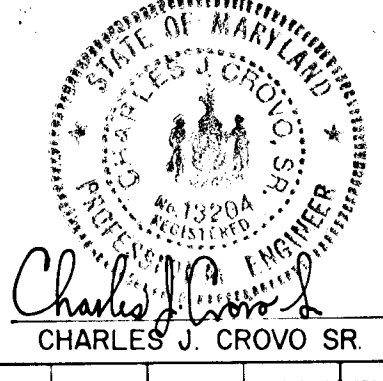
CHERRY LANE	CHERRYSTONE COURT
GRADING PLAN	GRADING PLAN

OWNER AND DEVELOPER
WINCHESTER HOMES INC.
6305 IVY LANE, SUITE 200
GREENBELT, MARYLAND 20904

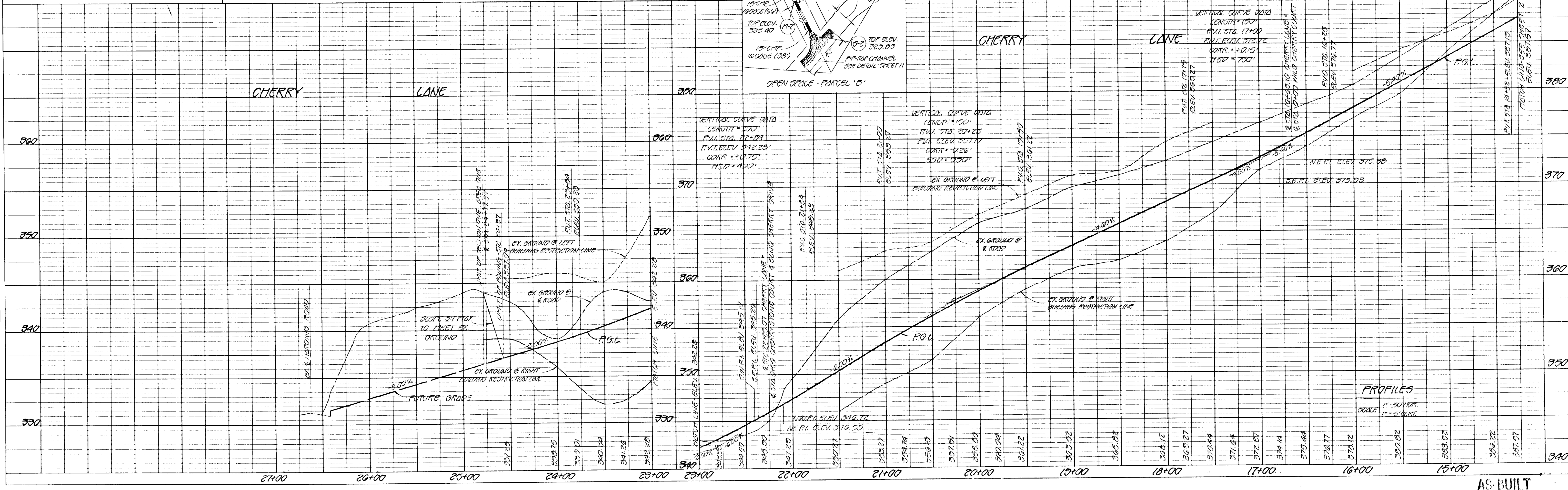
SCALE AS SHOWN DATE MAY 15, 1984 DWG. NO. 13 OF 15
DES. C. CROVO DRN. W. HARDEN CHK. R. CARTER

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

CURVE	RADIUS	ARC	DELTA
1	25.00'	34.63'	75°21'35"
2	40.00'	132.06'	275°06'05"
3	40.00'	10.55'	15°34'26"



DATE	
BY	
PROFILE	
SURVEYED	
GRADES CHECKED	
PLOTTED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK	
NO.	



PROFILES
SCALE 1" = 20' VERT.
1" = 20' HORIZ.

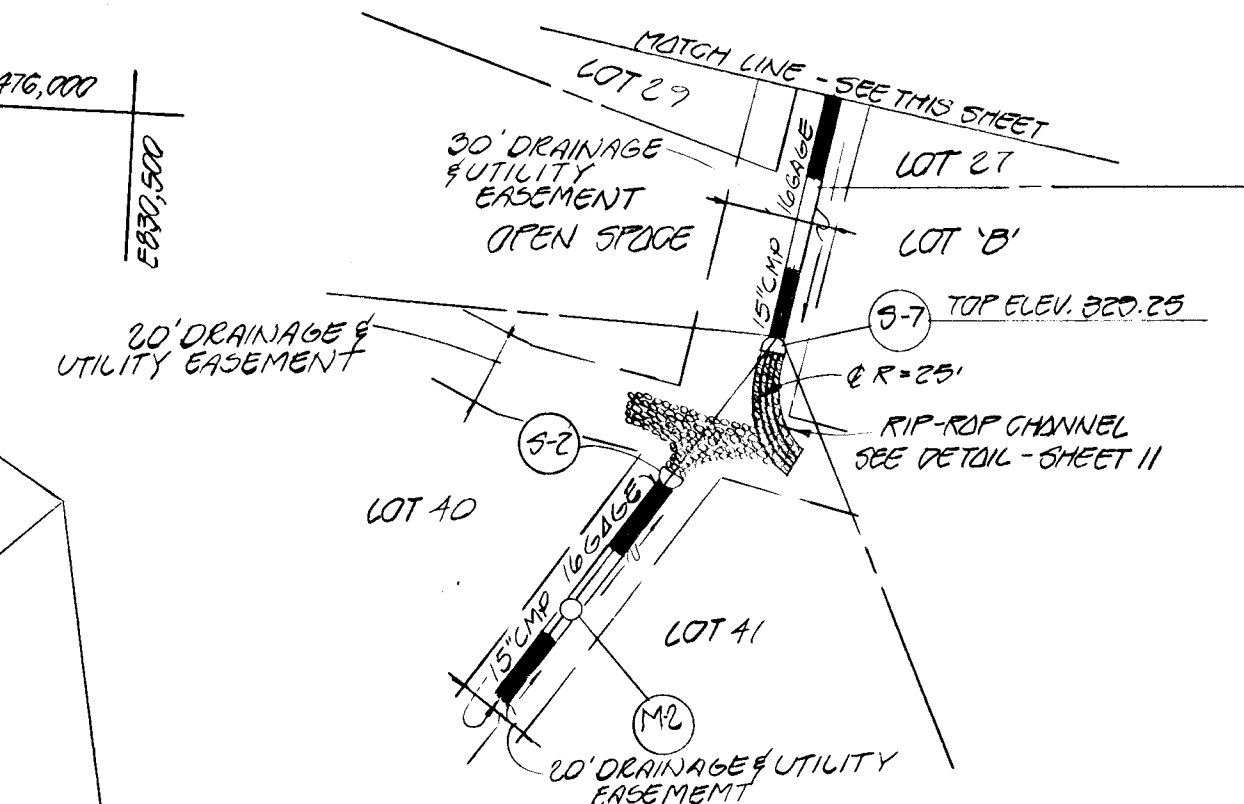
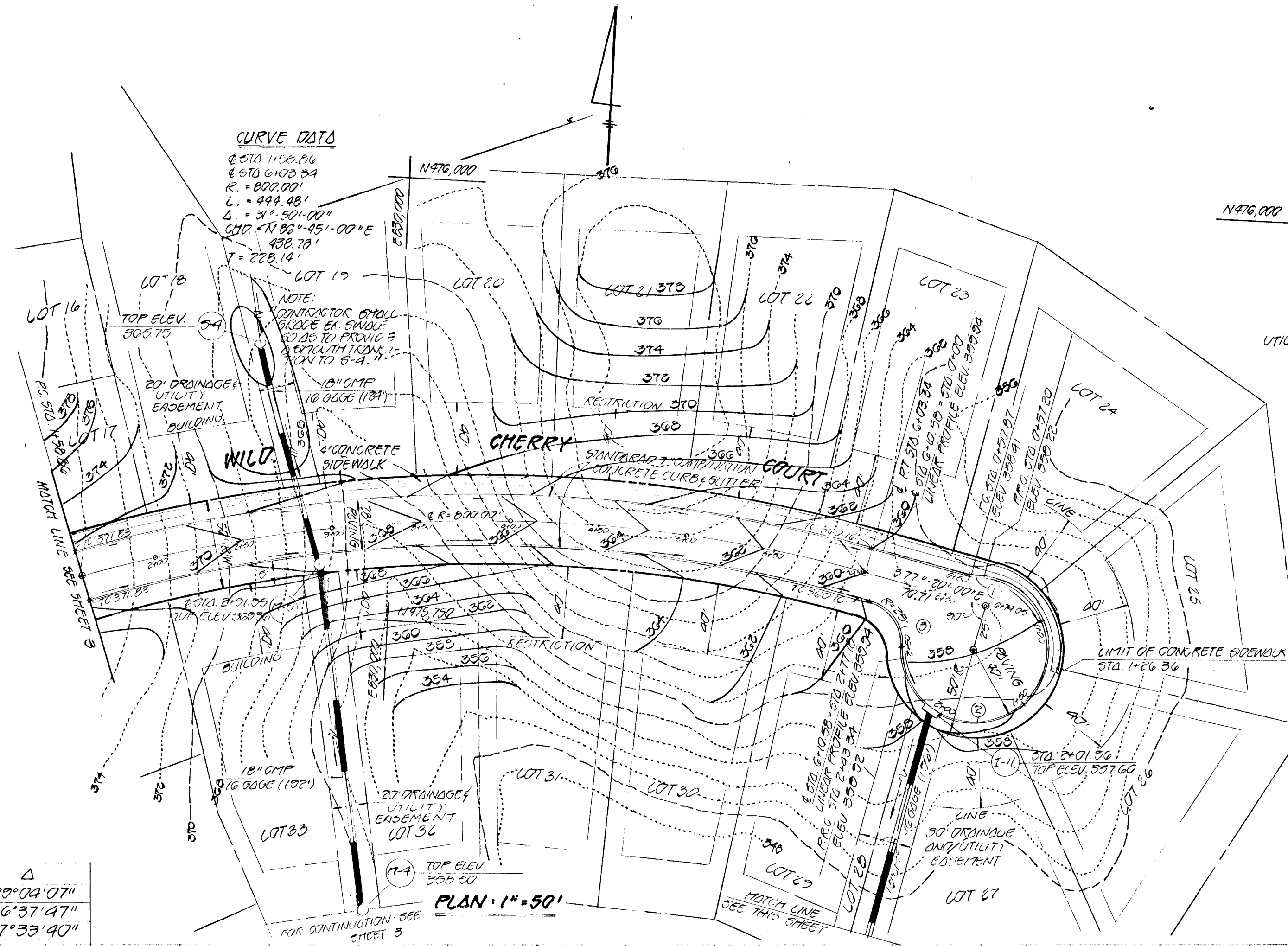
#1109

AS-BUILT

PLAN
 REVISIONS
 NO. DATE BY
 1 11/16/84 [Signature]
 2 11/20/84 [Signature]
 3 11/16/84 [Signature]

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 APPROVED: [Signature] 11-16-84
 U.S. SOIL CONSERVATION SERVICE
 THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: [Signature] 11/16/84
 DISTRICT HOWARD SOIL CONSERVATION DISTRICT
 DEPARTMENT OF PUBLIC WORKS
 APPROVED: [Signature] 11/20/84
 CHIEF ENGINEER
 APPROVED: [Signature] 11-16-84
 OFFICE OF PLANNING AND ZONING
 AND ZONING ADMINISTRATION

NO.	R.	L.	Δ
1	40.00'	6.55'	02°04'07"
2	40.00'	18.01'	266°37'47"
3	25.00'	33.84'	77°33'40"



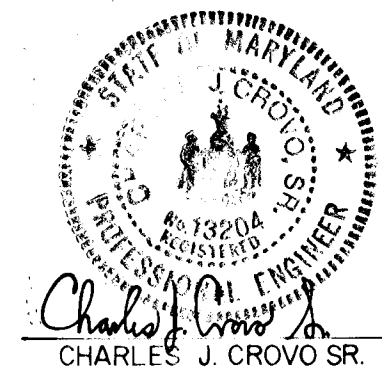
CHERRYTREE FARM
 SECTION I, AREA I
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

WILD CHERRY COURT
 GRADING PLAN

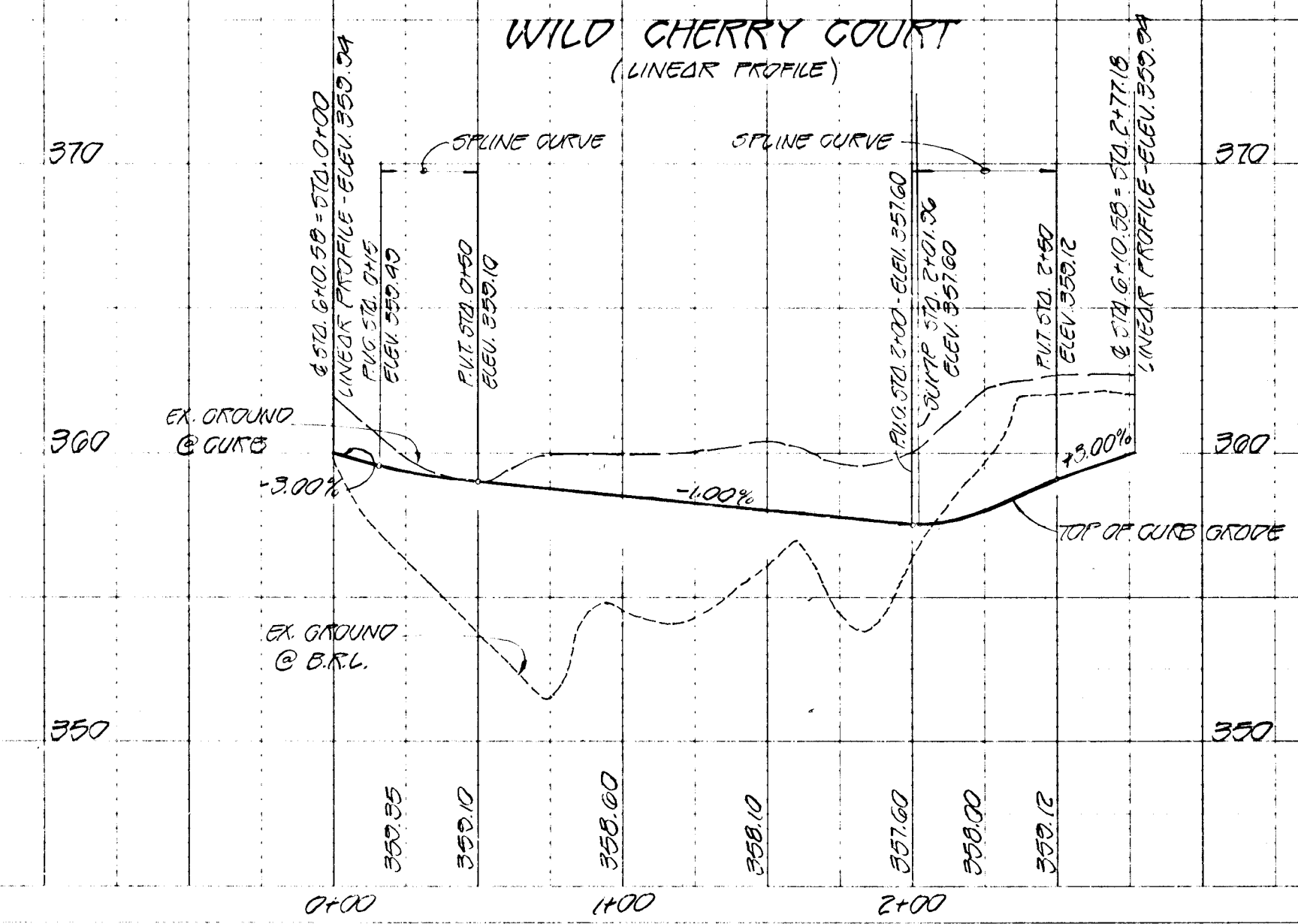
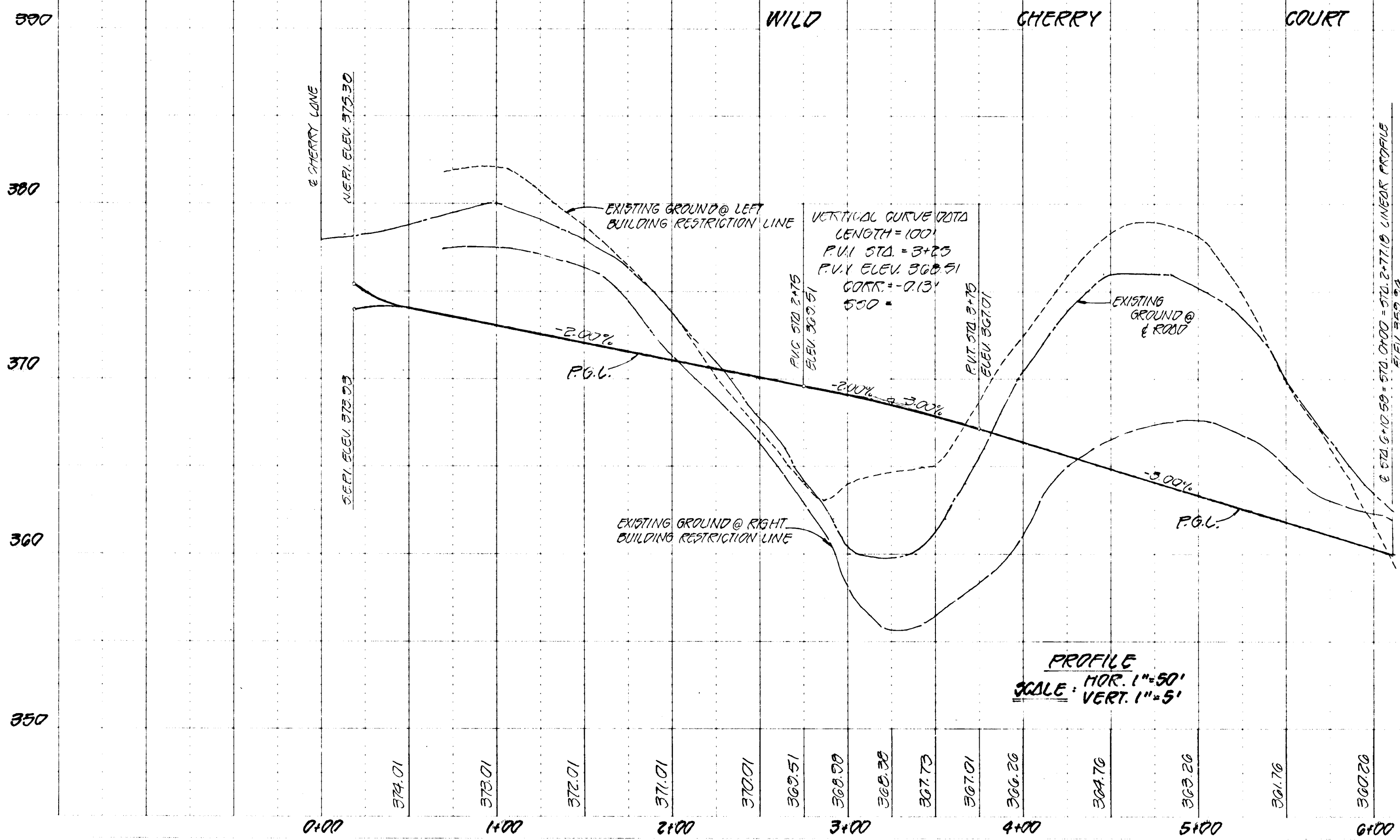
OWNER AND DEVELOPER
 WINCHESTER HOMES INC.
 6305 IVY LANE, SUITE 200
 GREENBELT, MARYLAND 20904

SCALE: AS SHOWN DATE: MAY 15, 1984 DWG NO. 14 OF 15
 DES: C. CROVO DRN: W. HARDEN CHK: R. CARTER

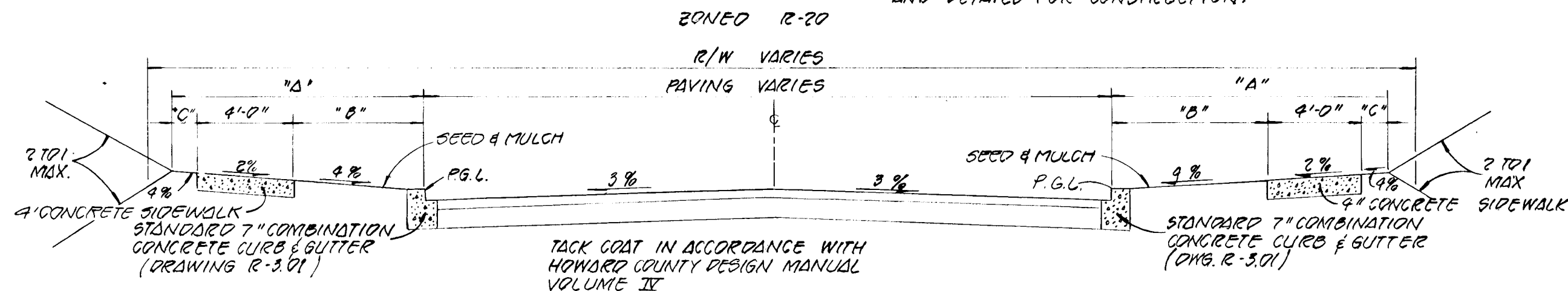
FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21104



1109



ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL - VOLUME II - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.

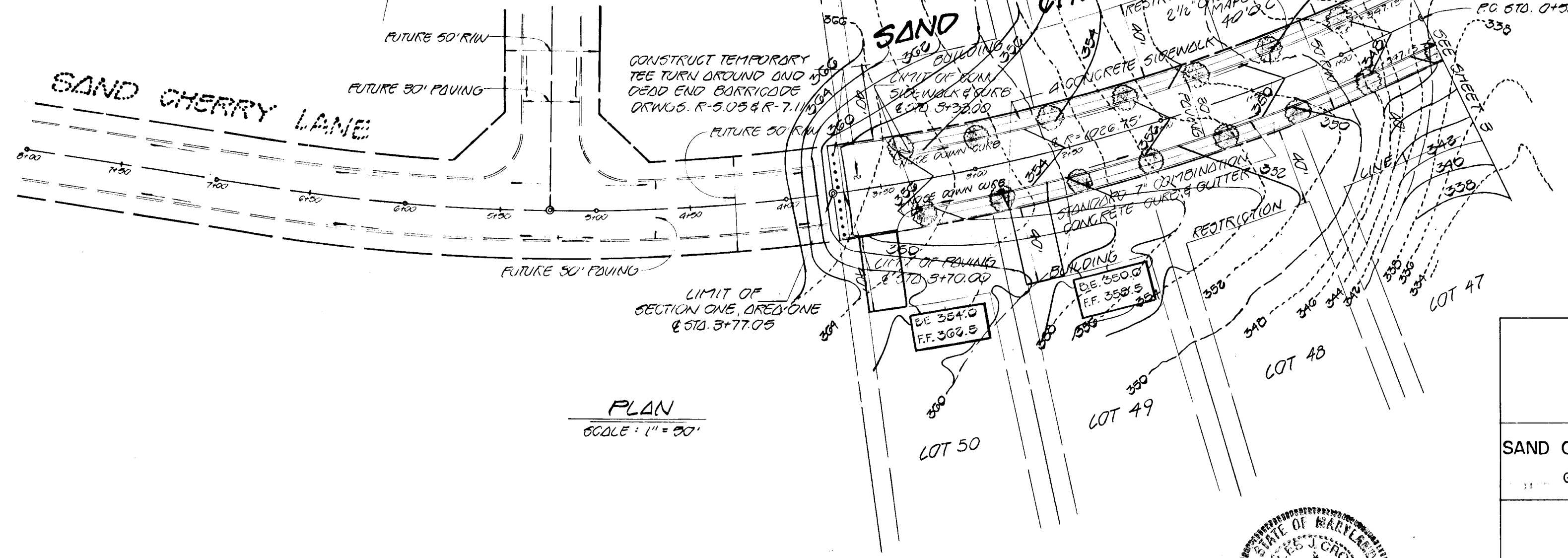


BASE WILL BE PRIMED IN ACCORDANCE WITH SECTION NUMBER P-2, DWG R-201 FOR SAND CHERRY WITH HOWARD COUNTY DESIGN MANUAL VOLUME II.
 PAVING SECTION SHALL BE IN ACCORDANCE WITH SECTION NUMBER P-2, DWG R-201 FOR SAND CHERRY DRIVE, CHERRY COURT, CHERYSTONE COURT PAVING SECTION FOR CHERRYLINE SHALL BE P-2, DRAWING R-201

TYPICAL ROADWAY SECTION
NO SCALE

ROAD NAME	PAVING WIDTH	R/W	CLASSIFICATION	DESIGN SPEED	'1'	'2'	'3'	'4'	'5'
CHERRY LANE	36'	60'	MINOR COLLECTOR	35 M.P.H.	12"	6"	2"		
SAND CHERRY DRIVE	30'	50'	LOCAL	30 M.P.H.	9"	4"	1"		
BIRD CHERRY COURT	28'	50'	CUL-DE-SAC	30 M.P.H.	9"	4"	1"		
WILD CHERRY COURT	28'	50'	CUL-DE-SAC	30 M.P.H.	9"	4"	1"		
CHERRYSTONE COURT	24'	50'	CUL-DE-SAC	30 M.P.H.	9"	4"	1"		

SAND CHERRY LANE



PLAN
SCALE: 1" = 50'

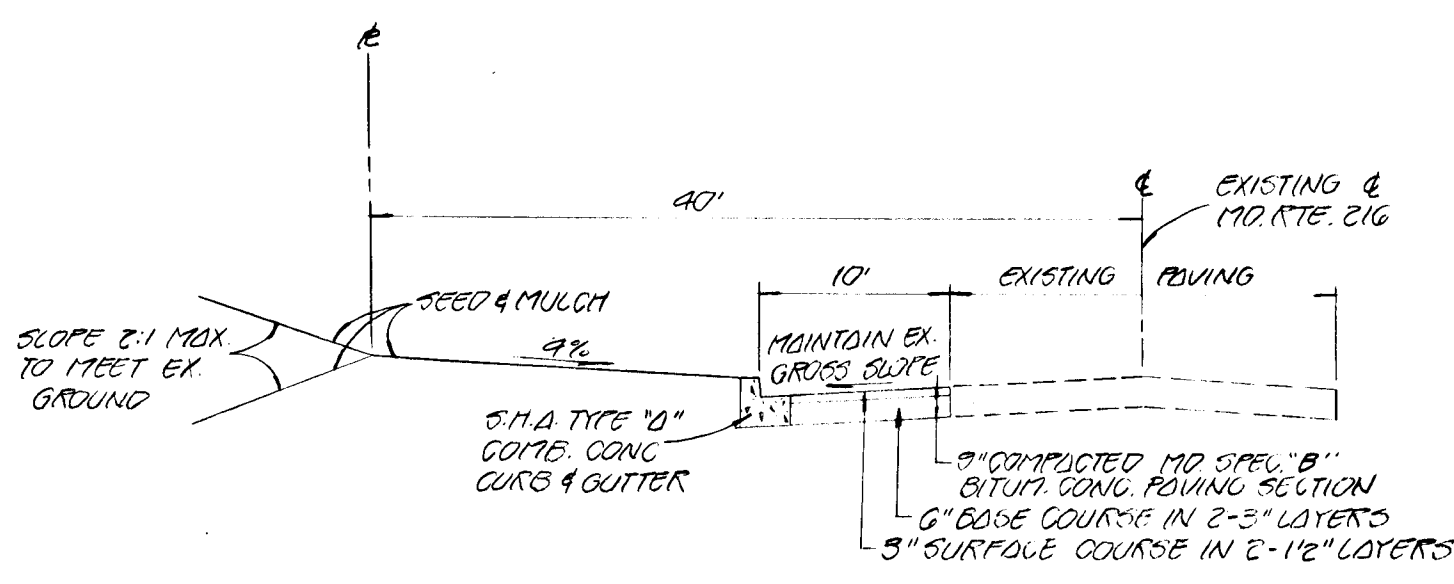
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

APPROVED: *James M. Helm* 11-16-84
 U.S. SOIL CONSERVATION SERVICE DATE
 THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: *Robert W. Zick* 11/16/84
 DISTRICT HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: *William D. Reid* 11/20/84
 DEPARTMENT OF PUBLIC WORKS CHIEF BUREAU OF ENGINEERING DATE

APPROVED: *John M. MacArthur* 11-16-84
 OFFICE OF PLANNING AND ZONING AND ZONING ADMINISTRATION DATE



TYPICAL WIDENING SECTION
ALONG MD. RTE. 216
NO SCALE

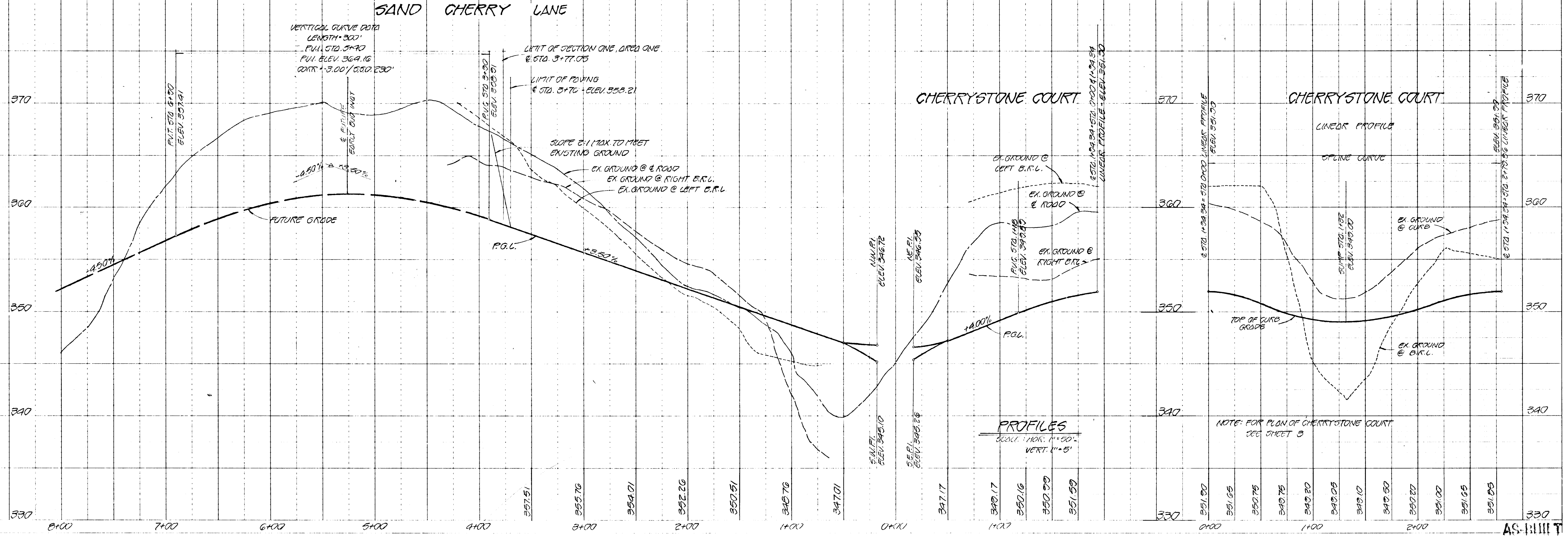
CHERRYTREE FARM
 SECTION I, AREA I
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SAND CHERRY LANE CHERRYSTONE COURT
 GRADING PLAN PROFILE

OWNER AND DEVELOPER
 WINCHESTER HOMES INC.
 6305 IVY LANE, SUITE 200
 GREENBELT, MARYLAND 20904

SCALE: AS SHOWN DATE: MAY 15, 1984 DWG. NO. 15 OF 15
 DES. C. CROVO DRN. W. HARDEN CHK. R. CARTER

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



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

NOTE: FOR PLAN OF CHERRYSTONE COURT SEE SHEET 3

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