

MOUNT HEBRON

SECTION 20

SECOND ELECTION DISTRICT

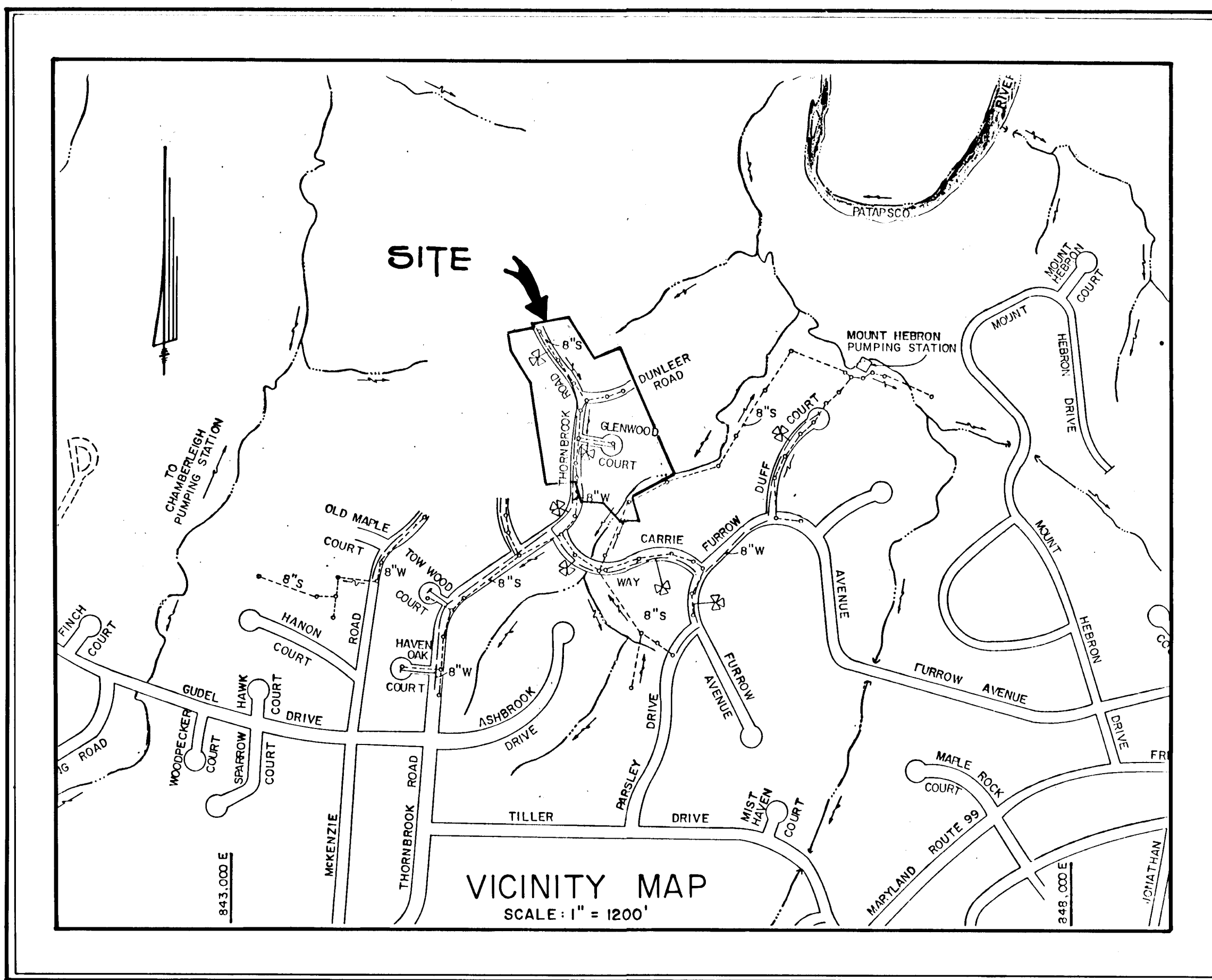
HOWARD COUNTY, MARYLAND

APPROVED
DEPARTMENT OF PUBLIC WORKS
Oliver M. Simpson 9/15/90
CHIEF, LAND DEVELOPMENT DIVISION DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
Francis W. Welland 9/14/90
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
William E. Kelly 9/11/90
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED
DEPT. OF PLANNING AND
Frank J. Coughlin 9/7/90
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE



THE COORDINATES SHOWN HEREON ARE BASED ON THE MARYLAND STATE GRID SYSTEM AND DERIVED FROM THE FOLLOWING HOWARD CO. CONTROL STATIONS:

3442011	N 535973.189
	E 846324.470
3841004	N 534272.789
	E 844840.447

- GENERAL NOTES**
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
 2. ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HOURS 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 (301) 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 WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL CURRENT REVISED EDITION.

- STREET LIGHTS**
- 175-WATT "MODERN" MERCURY VAPOR LAMP POST TOP FIXTURES ON A 14' GRAY FIBERGLASS POLE LOCATED 2'-10" FROM BACK OF CURB AT THE FOLLOWING LOCATIONS:
- 1) THORNBROOK ROAD @ STA. 35+25 ON THE WEST SIDE.
 - 2) NORTHEAST INTERSECTION OF DUNLEER ROAD AND THORNBROOK ROAD.
 - 3) THORNBROOK ROAD @ STA. 43+70 ON THE WEST SIDE.

- INDEX OF SHEETS**
1. TITLE SHEET
 2. THORNBROOK ROAD - PLAN & PROFILE
 3. DUNLEER ROAD - PLAN & PROFILE
 4. GLENWOOD COURT - PLAN & PROFILE
 5. ROAD SECTIONS AND DETAILS
 6. DRAINAGE AREA MAP
 7. STREET TREE, GRADING AND SEDIMENT CONTROL - PLAN
 8. STORM WATER MANAGEMENT POND - NOTES AND DETAILS
 9. STORM DRAIN - PROFILES
 10. SEDIMENT CONTROL - NOTES AND DETAILS

BENCH MARKS

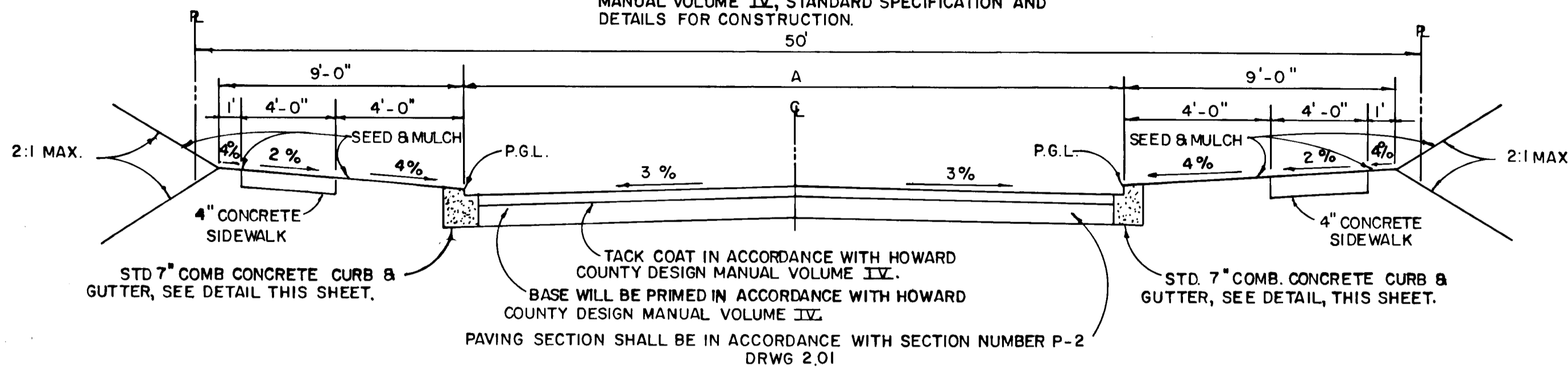
B.M. 1,000 ELEVATION 407.81
REBAR SET 27'± SOUTHEAST OF LINEAR PROFILE STA. 1+55 GLENWOOD COURT ON LOT NO. 4
B.M. 2,000 ELEVATION 423.62
REBAR SET 91'± NORTH OF STA. 2+00 DUNLEER ROAD ON LOT NO. 13
*FOR LOCATIONS, SEE SHEET 2 OF 8



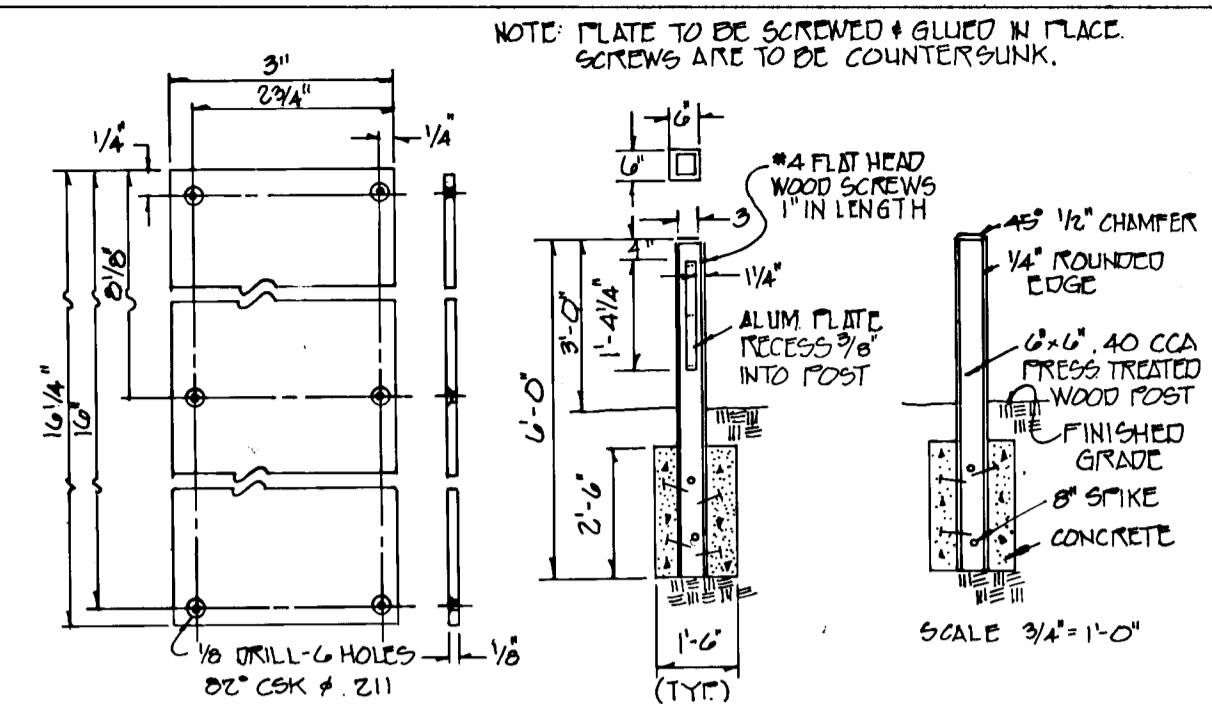
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FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
SUITE 100, 9171 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21043
TELEPHONE (301) 461-2855

TYPICAL ROADWAY SECTION
NO SCALE

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



ROAD NAME	CLASSIFICATION	DESIGN SPEED	ZONING	CL. STA. LIMITS	A
THORNBROOK ROAD	LOCAL ROAD	30 M.P.H.	R-20	33+72 TO 43+79.52	30'
DUNLEER ROAD	CULDESAC	30 M.P.H.	R-20	0+00 TO 2+80	28'
GLENWOOD COURT	CULDESAC	25 M.P.H.	R-20	0+00 TO 1+51.53	24'

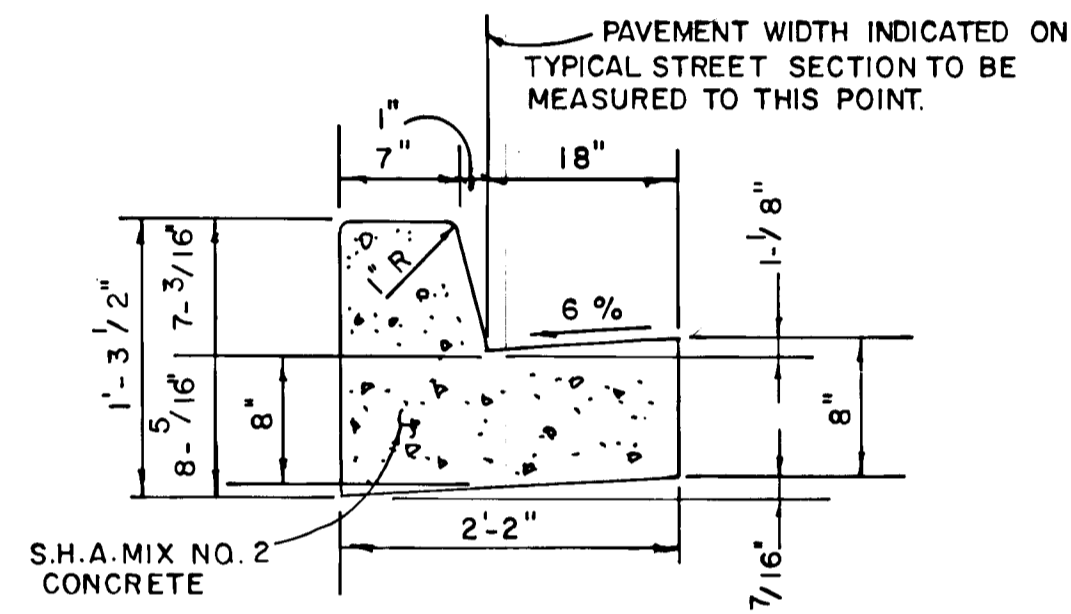


OPEN SPACE BOLLARD DETAIL
SCALE 3/4" = 1'-0"

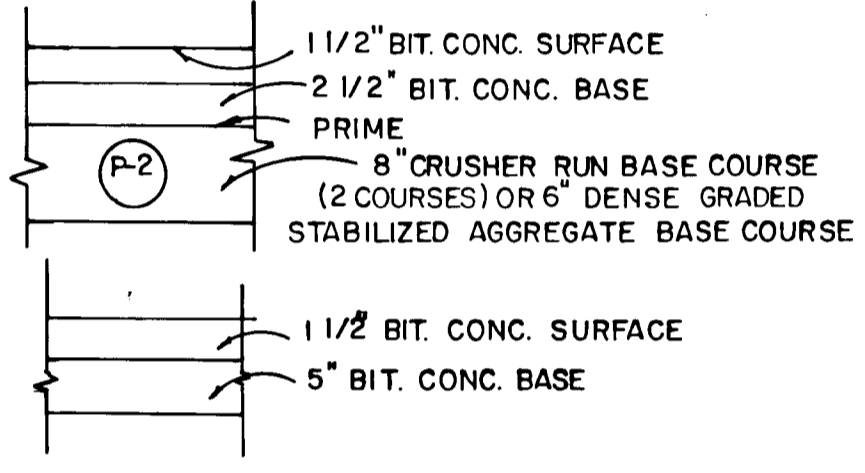
REVISION	DATE	No.
REMOVE MACADAM WALKWAY DETAIL	03/04	1
ADD BOLLARD DETAIL	03/04	2

DATE _____ BY _____
 CHECKED _____
 PLANNING AND ZONING DIVISION
 DATE 3/20/90
 APPROVED _____
 CHIEF, BUREAU OF HIGHWAYS

APPROVED _____
 DEPARTMENT OF PUBLIC WORKS
 CHIEF, LAND USE DIVISION
 DATE 3/21/90
 APPROVED _____
 DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF ENGINEERING
 DATE 3-22-90
 APPROVED _____
 DEPT. OF PLANNING AND ZONING
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 DATE 3/23/90



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

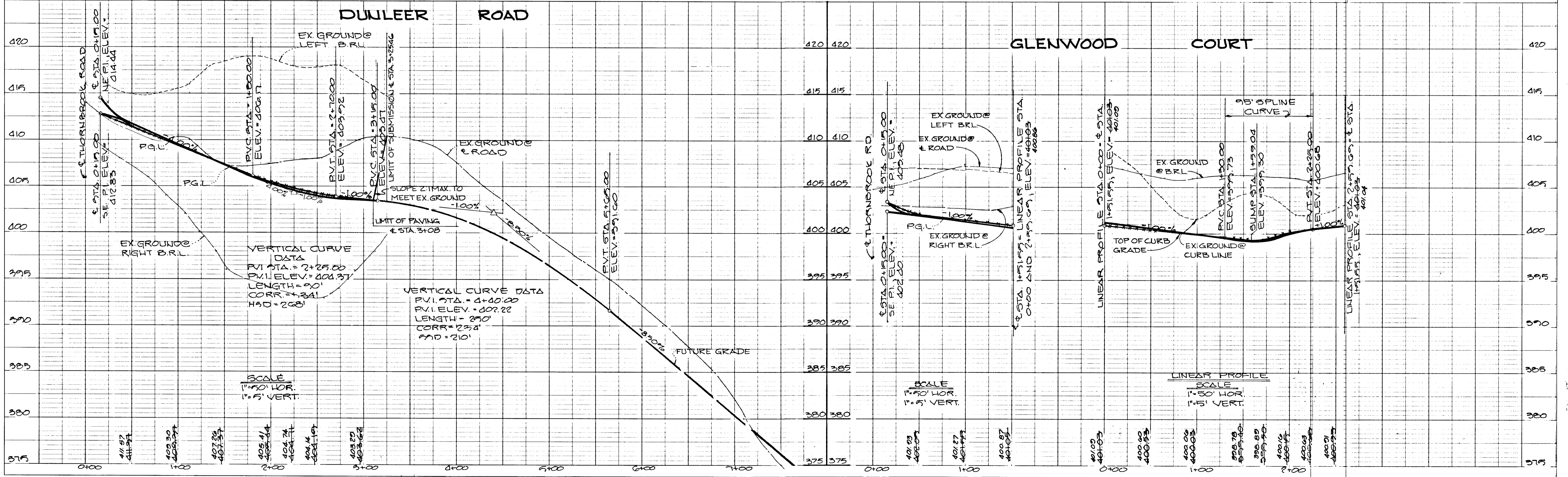


PAVING SECTION P-2
NO SCALE



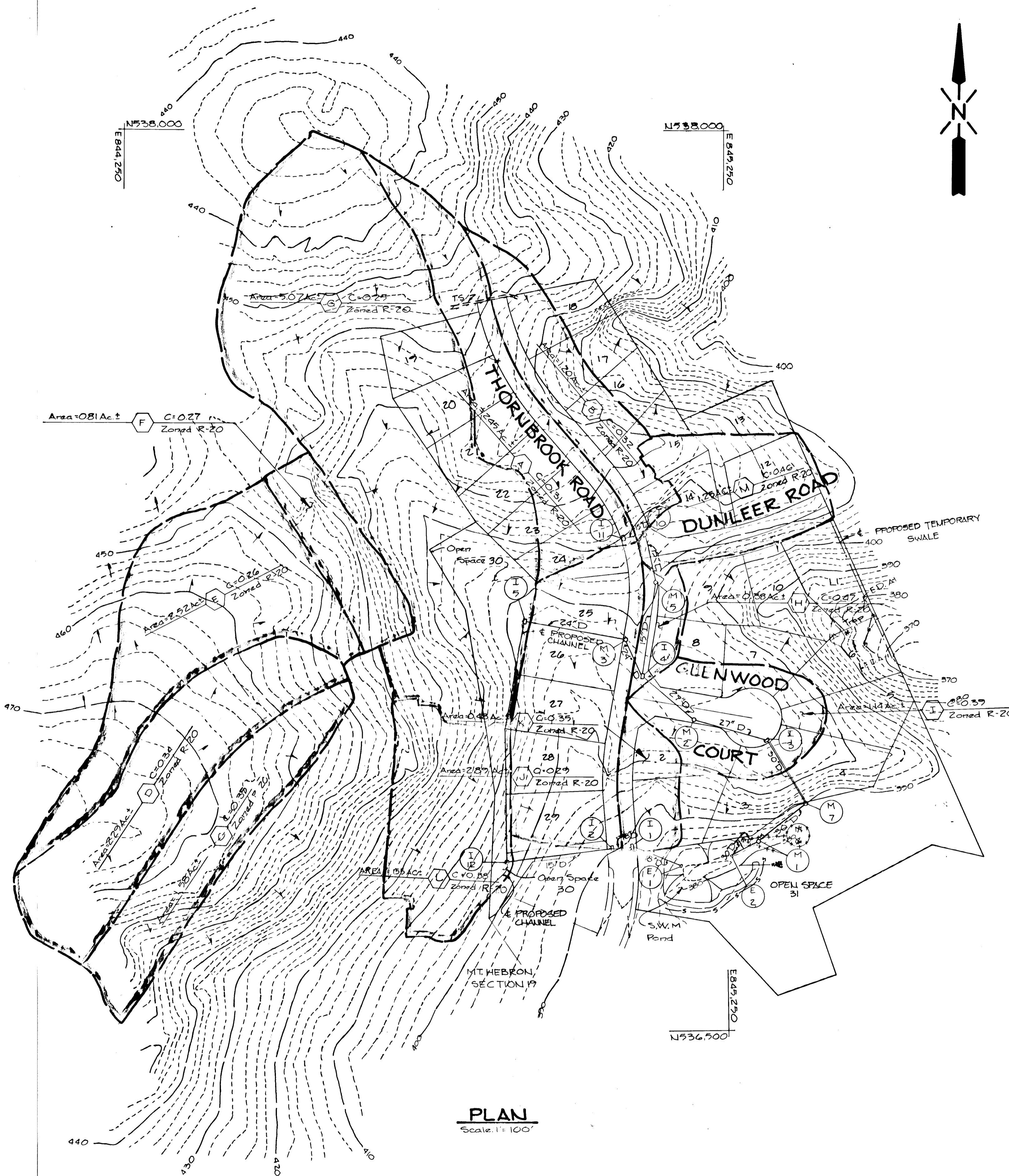
MT. HEBRON
 SECTION 20
 LOTS 1-31
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
ROAD SECTIONS & DETAILS
 DUNLEER ROAD AND GLENWOOD COURT
 PROFILES
 OWNER AND DEVELOPER
 MT. HEBRON INC.
 2106 MT. HEBRON DRIVE
 ELLICOTT CITY, MARYLAND 21043
 SCALE As Shown DATE November 14, 1989 DWG. NO. 3 OF 3
 DESIGNED BY DRN M. Young CHK. C. Crovo
FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

DATE _____ BY _____
 CHECKED _____
 GRADES CHECKED
 STRUCTURE NOTATIONS CHECKED



STRUCTURE SCHEDULE						
STRUCTURE	TYPE	INV. IN	INV. OUT	TOP ELEV.	CENTERLINE ROAD STATION	REMARKS
I-1	A-5/W DEFLECTORS	388.70 383.06	388.45 382.70	391.54 390.80	34+15 THORNBROOK RD. 15'RT.	S.D.-4.01 & 4.83
I-2	A-10/W DEFLECTORS	384.66 384.02	384.44 383.72	384.54 383.80	34+15 THORNBROOK RD. 15'LT.	S.D.-4.02 & 4.83
I-3	A-5	389.74 380.43	389.84 380.22	389.30 380.31	1+59.04 LINEAR PROFILE GLENWOOD COURT	S.D.-4.01
I-4	A-10	389.89 380.65	389.40 380.42	384.86 380.85	37+11.14 THORNBROOK RD. 15'RT.	S.D.-4.02
I-5	'D' INLET	401.34 -----	401.14 400.78	406.90 406.50	37+61.89 THORNBROOK RD. 190'LT.	S.D.-4.11
I-10	A-5/W DEFLECTORS	411.10 410.63	410.84 410.27	416.32 416.14	39+42.50 THORNBROOK RD. 15'RT.	S.D.-4.01 & 4.83
I-11	A-10/W DEFLECTORS	-----	411.64 411.15	414.32 413.88	39+42.50 THORNBROOK RD. 15'LT.	S.D.-4.02 & 4.83
M-1	STD. 5' MANHOLE	377.07 377.00	376.82 376.79	384.20 386.16	-----	G-5.02
M-2	STD. 5' MANHOLE	382.88 382.67	382.63 382.44	401.64 401.64	1+14 GLENWOOD COURT 17'RT.	G-5.02
M-3	STD. 4' MANHOLE	341.32 337.04	341.07 336.73	407.35 407.54	37+61.89 THORNBROOK RD. 21'LT.	G.5.01
M-5	SHALLOW MANHOLE	407.89 407.30	407.64 407.18	411.76 411.84	38+60 THORNBROOK RD. 21'RT.	G-5.05
M-6	SHALLOW MANHOLE	378.07 -----	377.82 -----	383.20 -----	-----	G-5.13
M-7	SHALLOW MANHOLE	388.93 388.73	388.68 388.50	387.00 387.00	-----	G-5.13
E-1	CONC. ENDSECTION	375.74 375.47	375.00 375.22	376.74 377.49	-----	S.D.-5.52
E-2	STD. METAL END SECTION	375.76 375.28	375.00 375.22	377.76 377.78	-----	S.D.-5.61
I-12	'D' INLET *	-----	388.31 383.48	400.00 400.16	-----	S.D.-4.11

* 'D' INLET SHALL HAVE OPENINGS ON ALL FOUR SIDES



PLAN
Scale: 1"=100'

LEGEND
 EDAT = Earth Dike & Treatment Type
 T.S. = Temporary Swale
 -S- = Silt Fence



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

OWNER AND DEVELOPER
 MT. HEBRON INC.
 2106 MT. HEBRON DRIVE
 ELLICOTT CITY, MARYLAND 21043

Drainage Area Map
Mt. Hebron
 Section 20
 Lots 1-31
 2nd Election District Scale 1"=100'
 Howard County, Md. November 15, 1989
 Sheet 4 of 8

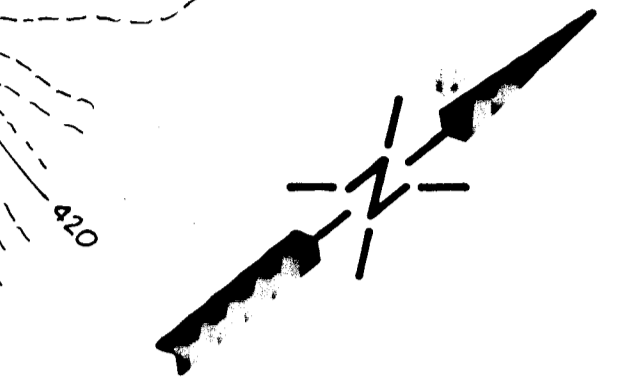
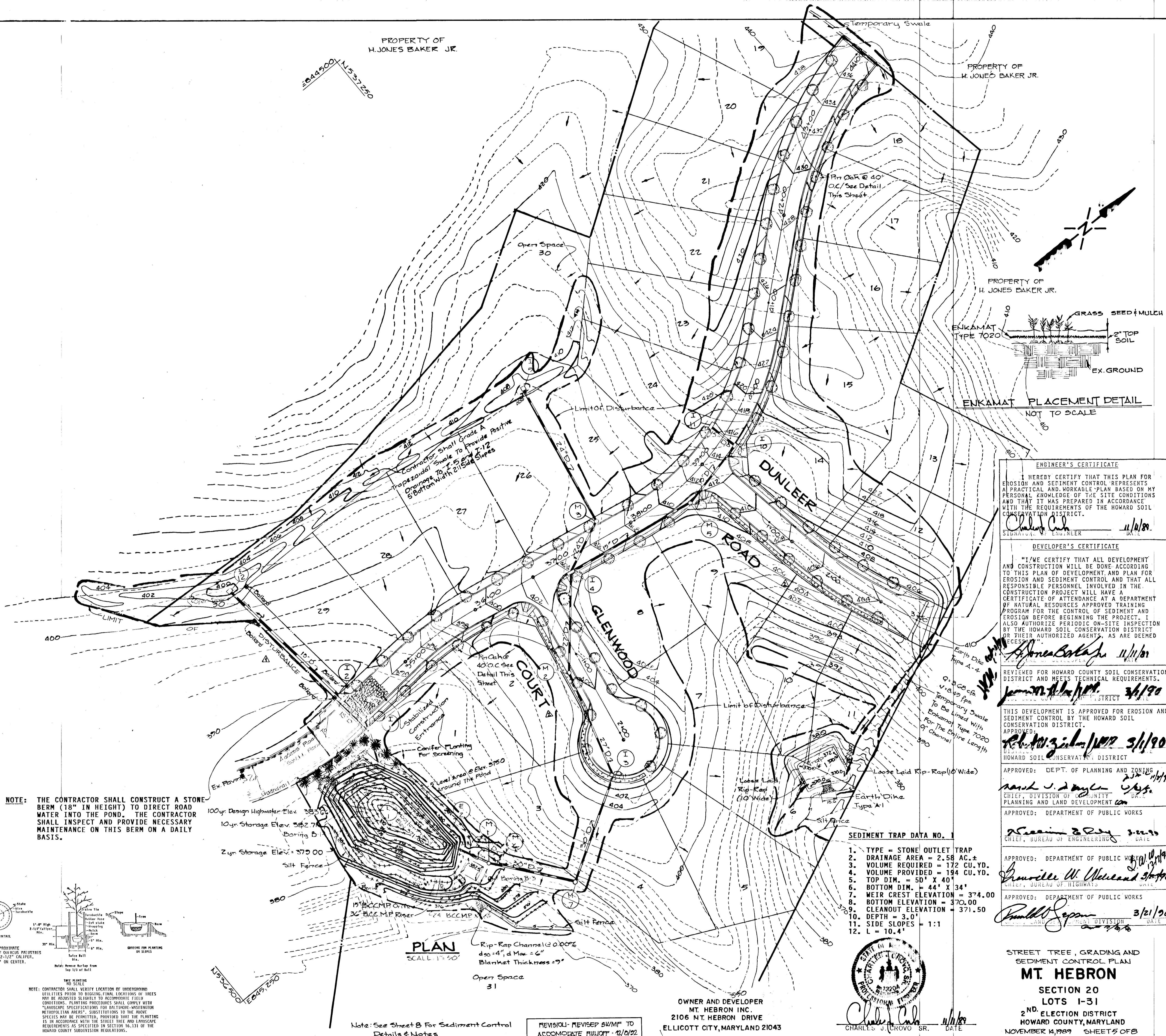
APPROVED
 DEPARTMENT OF PUBLIC WORKS
Paul W. Seaman 3/21/90
 CHIEF, LAND DEVELOPMENT DIVISION
Frank W. Welland 3/20/90
 CHIEF, BUREAU OF HIGHWAYS
William E. Day 3/22/90
 CHIEF, BUREAU OF ENGINEERING
 APPROVED
 DEPT. OF PLANNING AND ZONING
David J. Anger 3/23/90
 CHIEF, DIVISION OF COMMUNITY PLANNING
 AND LAND DEVELOPMENT

REVISION	DATE	No.
REMOVE PATHWAY AND ADD BOLLARDS	0-21-04	1
ADD CONCRETE SIDEWALK, GLENWOOD COURT & DUNLEER ROAD	0-21-04	2

PROPERTY OF
H. JONES BAKER JR.

PROPERTY OF
H. JONES BAKER JR.

PROPERTY OF
H. JONES BAKER JR.



ENKAMAT PLACEMENT DETAIL
NOT TO SCALE

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. Kravco Sr. 11/11/89
REGISTERED PROFESSIONAL ENGINEER

DEVELOPER'S CERTIFICATE
I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
H. Jones Baker Jr. 11/11/89
OWNER

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Jane M. H. [Signature] 3/1/90
DISTRICT

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Robert J. [Signature] 3/1/90
DISTRICT

APPROVED: DEPT. OF PLANNING AND ZONING
Mark J. [Signature] 2/11/89
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: DEPARTMENT OF PUBLIC WORKS
William [Signature] 2/22/89
CHIEF, BUREAU OF ENGINEERING

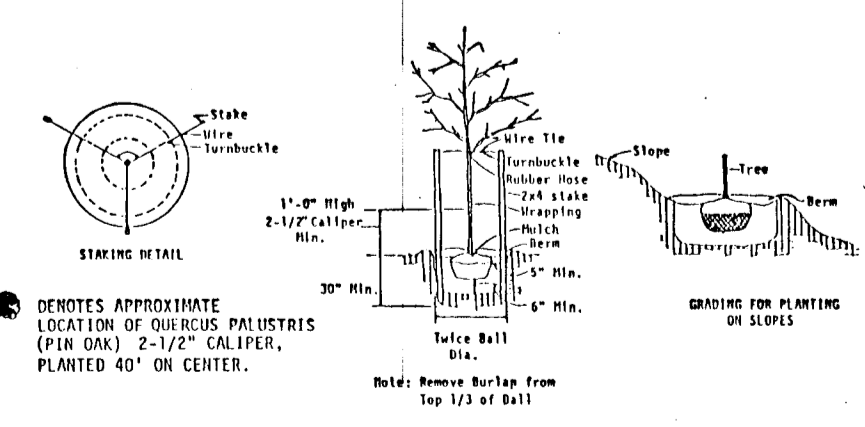
APPROVED: DEPARTMENT OF PUBLIC WORKS
William W. [Signature] 3/1/90
CHIEF, BUREAU OF HIGHWAYS

APPROVED: DEPARTMENT OF PUBLIC WORKS
Paul [Signature] 3/21/90
CHIEF, BUREAU OF HIGHWAYS

STREET TREE, GRADING AND SEDIMENT CONTROL PLAN
MT. HEBRON
SECTION 20
LOTS I-31
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
NOVEMBER 14, 1989 SHEET 5 OF 8

- CONSTRUCTION SEQUENCE**
- OBTAIN GRADING PERMIT.
 - CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE, SEDIMENT TRAP, EARTH DIKE, AND STORMWATER MANAGEMENT FACILITIES.
 - CLEAR AND GRUB SITE TO LIMITS OF DISTURBANCE.
 - GRADE ROADS TO SUBGRADE.
 - CONSTRUCT STORM DRAINS.
 - 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 REMOVE FROM TRAP WHEN CLEANOUT ELEVATION HAS BEEN REACHED TRAP SHALL BE DEMATERED BY PUMPING SEDIMENT SHALL BE PLACED UP HILL FROM SITE.
 - REMOVE SEDIMENT FROM EX-ROADWAYS AND DRESS STONE CONSTRUCTION ENTRANCE AS REQUIRED.
 - CONSTRUCT ALL UTILITIES.
 - INSTALL CURB AND GUTTER AND SUB-BASE ON ROADS.
 - REMOVE STONE CONSTRUCTION ENTRANCE, CLEAN BASE COURSE.
 - APPLY TACK COAT AND LAY SURFACE COURSES.
 - ALL DISTURBED AREAS DUE TO REMOVAL OF SEDIMENT CONTROL MEASURES SHALL BE GRADED AND STABILIZED BY PERMANENT SEEDING.
 - FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN a) 7 CALENDAR DAYS FOR PERIMETER SEDIMENT CONTROL STRUCTURES, b) SLOPES GREATER THAN 3:1; c) 14 DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 - COMPLETE STABILIZATION OF ALL DISTURBED AREAS SHALL BE DONE PRIOR TO REMOVAL OF ALL SEDIMENT CONTROLS.
 - NOTIFY HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS FOR FINAL INSPECTION AT DURATION OF PROJECT (301) 792-7272.

NOTE: THE CONTRACTOR SHALL CONSTRUCT A STONE BERM (18" IN HEIGHT) TO DIRECT ROAD WATER INTO THE POND. THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THIS BERM ON A DAILY BASIS.



NOTE: CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITIES PRIOR TO DIGGING. PLACEMENT OF TREES MAY BE ADJUSTED SLIGHTLY TO ACCOMMODATE FIELD CONDITIONS. PLANTING PROCEDURES SHALL COMPLY WITH "LANDSCAPE SPECIFICATIONS FOR BALTIMORE-WASHINGTON METRO AREA AREAS", SUBSTITUTIONS TO THE ABOVE SPECIES MAY 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.

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8385 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043

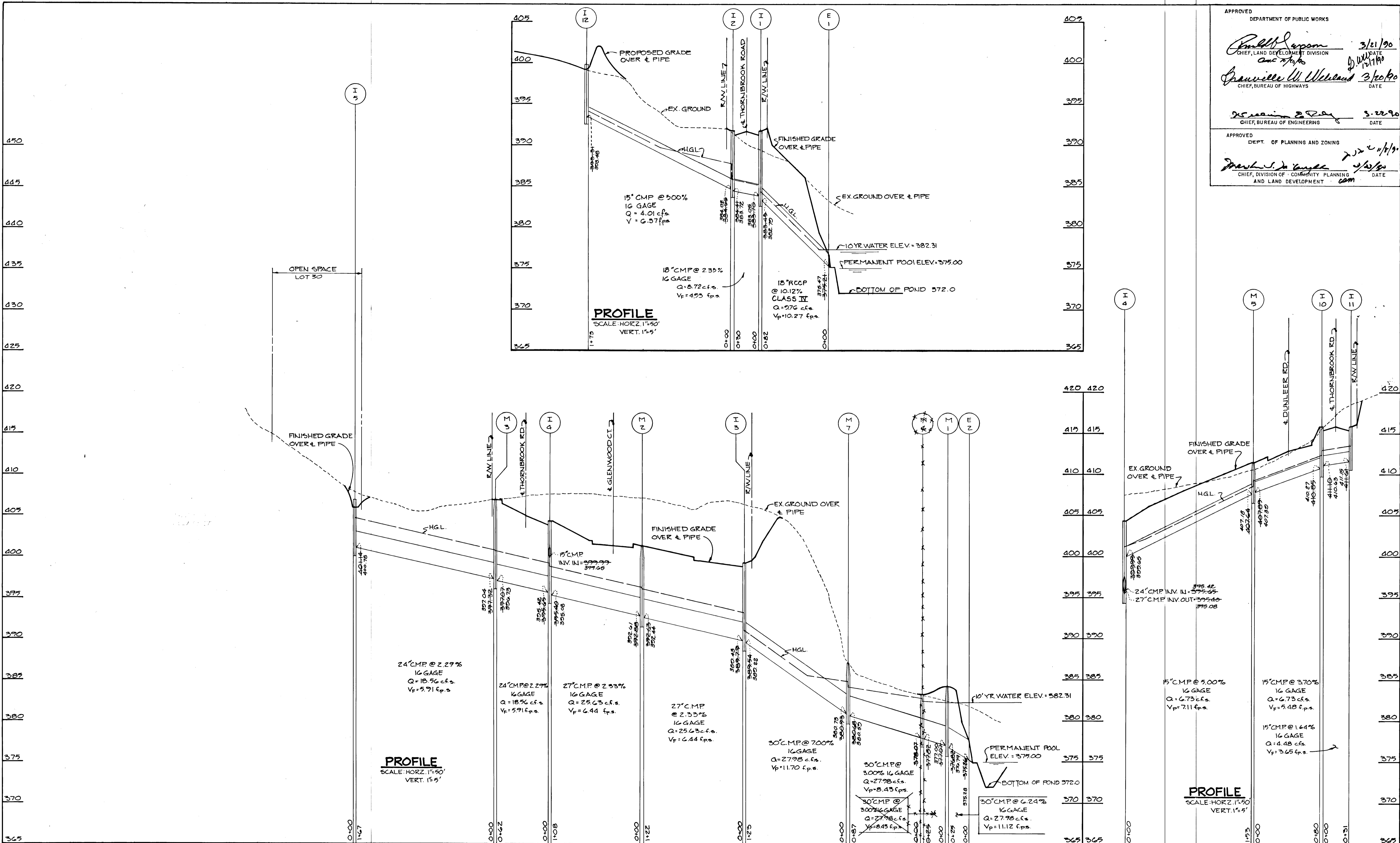
Note: See Sheet 8 For Sediment Control Details & Notes

REVISION: REVISED SWAMP TO ACCOMMODATE FULFORD 12/0/92

OWNER AND DEVELOPER
MT. HEBRON INC.
2106 MT. HEBRON DRIVE
ELLCOTT CITY, MARYLAND 21043



Charles J. Kravco Sr. 11/11/89
REGISTERED PROFESSIONAL ENGINEER



APPROVED
 DEPARTMENT OF PUBLIC WORKS

Charles J. Grovo 3/21/90
 CHIEF, LAND DEVELOPMENT DIVISION DATE

Greenville W. Weiland 3/20/90
 CHIEF, BUREAU OF HIGHWAYS DATE

Debra M. Ray 3-22-90
 CHIEF, BUREAU OF ENGINEERING DATE

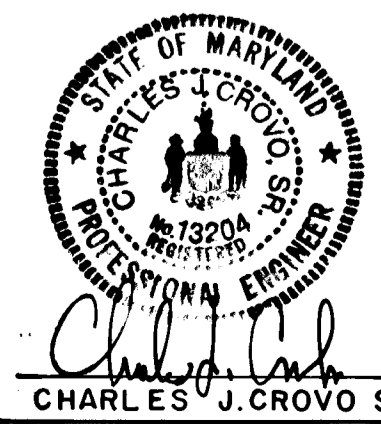
APPROVED
 DEPT. OF PLANNING AND ZONING

Mark J. ... 3/20/90
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

- NOTES:
1. STORM DRAIN BEDDING TYPE CLASS 'C' WILL BE USED.
 2. V_f DENOTES FULL FLOW VELOCITY.
 3. V_p DENOTES PARTIAL FLOW VELOCITY.

FISHER, COLLINS AND CARTER, INC.
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 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043

OWNER AND DEVELOPER
 MT. HEBRON INC.
 2106 MT. HEBRON DRIVE
 ELLICOTT CITY, MARYLAND 21043



STORM DRAIN PROFILES
MT. HEBRON
 SECTION 20
 LOTS 1-31
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 NOVEMBER 14, 1987 SHEET 7 OF 8 SCALE AS SHOWN

