

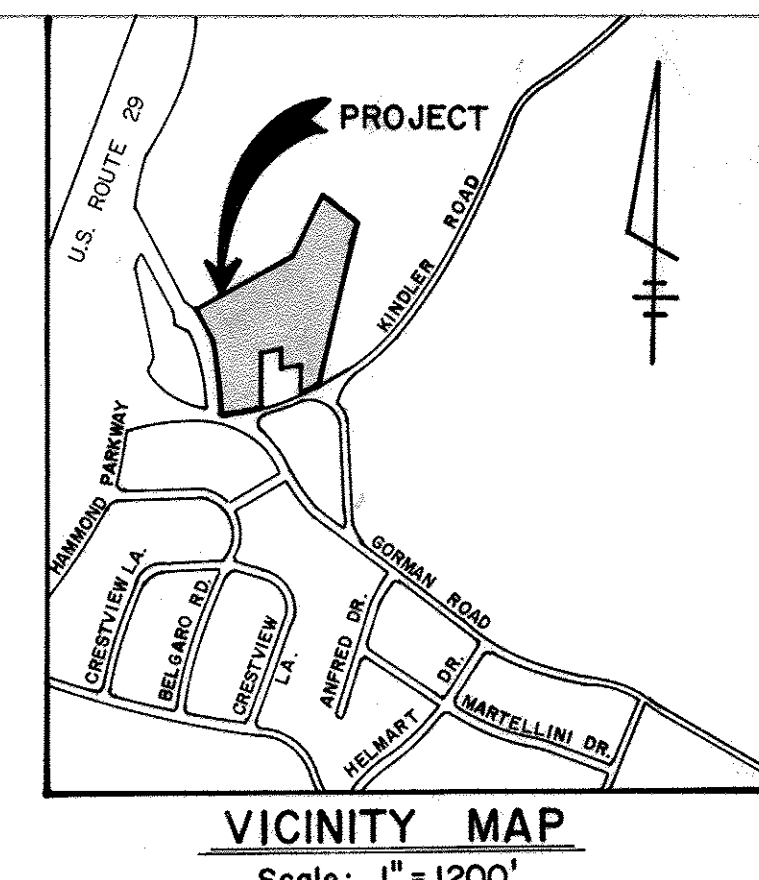
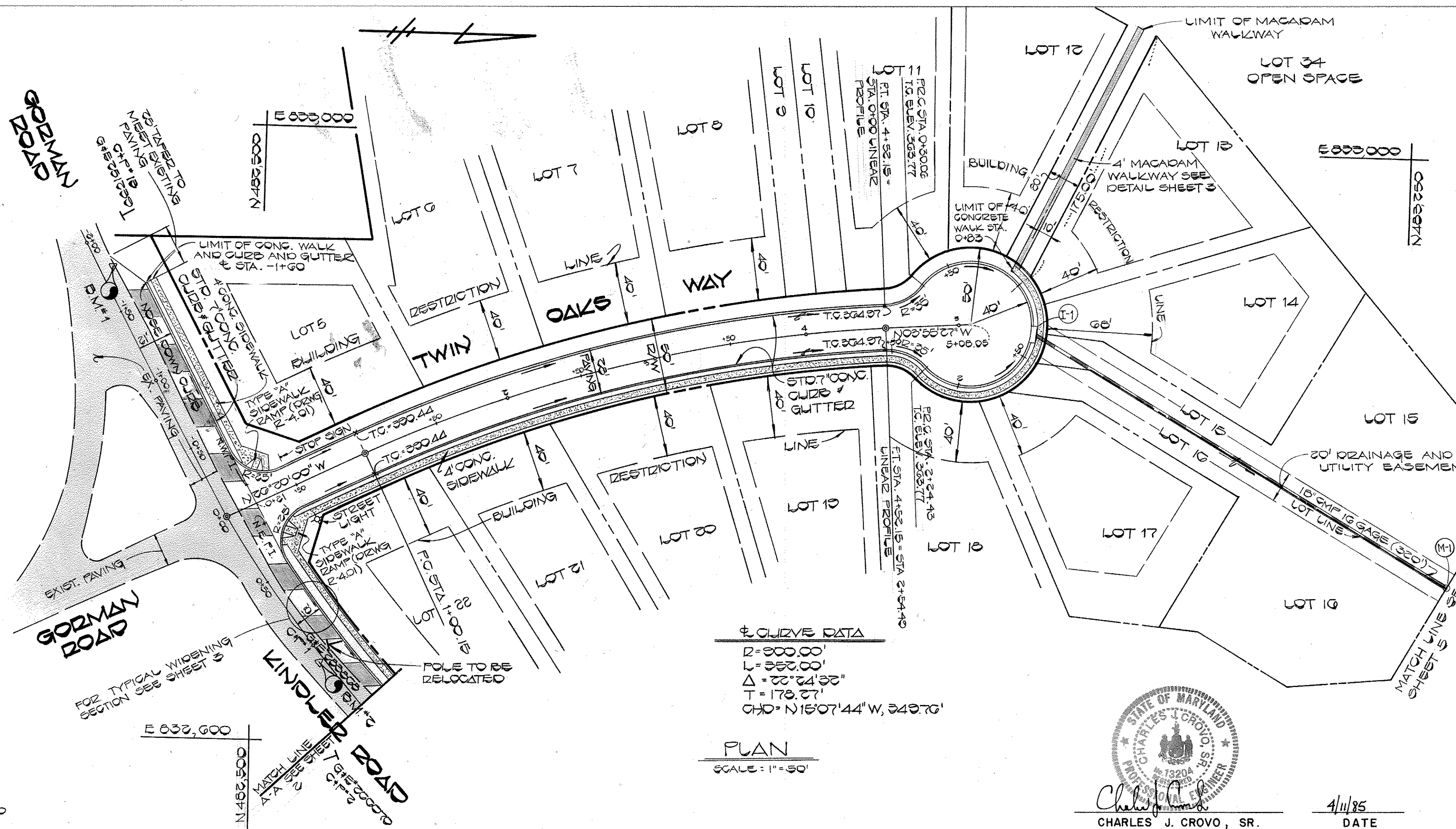
**ENGINEER'S CERTIFICATE**  
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL...  
**CHARLES J. CROVO SR.**  
 DATE: 4/11/85

**DEVELOPER'S CERTIFICATE**  
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION...  
**John F. Liparini**  
 DATE: 7-19-85

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT...  
**John F. Liparini**  
 DATE: 7-19-85

APPROVED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT...  
**John F. Liparini**  
 DATE: 7-19-85

**BENCH MARKS**  
 B.M.#1 ELEV. 300.75  
 CONG. NAIL SET IN SODS, 180' SOUTHWEST OF 20 STA. 0+00 (TRAVELING STA. 98'-1")  
 B.M.#2 ELEV. 302.00  
 CONG. NAIL SET IN PAVING, 110' NORTHEAST OF 20 STA. 0+00 (TRAVELING STA. 98'-2")



**TWIN OAKS**  
 6TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**TWIN OAKS WAY PLAN & PROFILE** | **GORMAN ROAD PLAN & PROFILE**

OWNER AND DEVELOPER  
 BRANTLY DEVELOPMENT CORP.  
 5501 TWIN KNOLLS ROAD SUITE 105  
 COLUMBIA, MARYLAND 21045

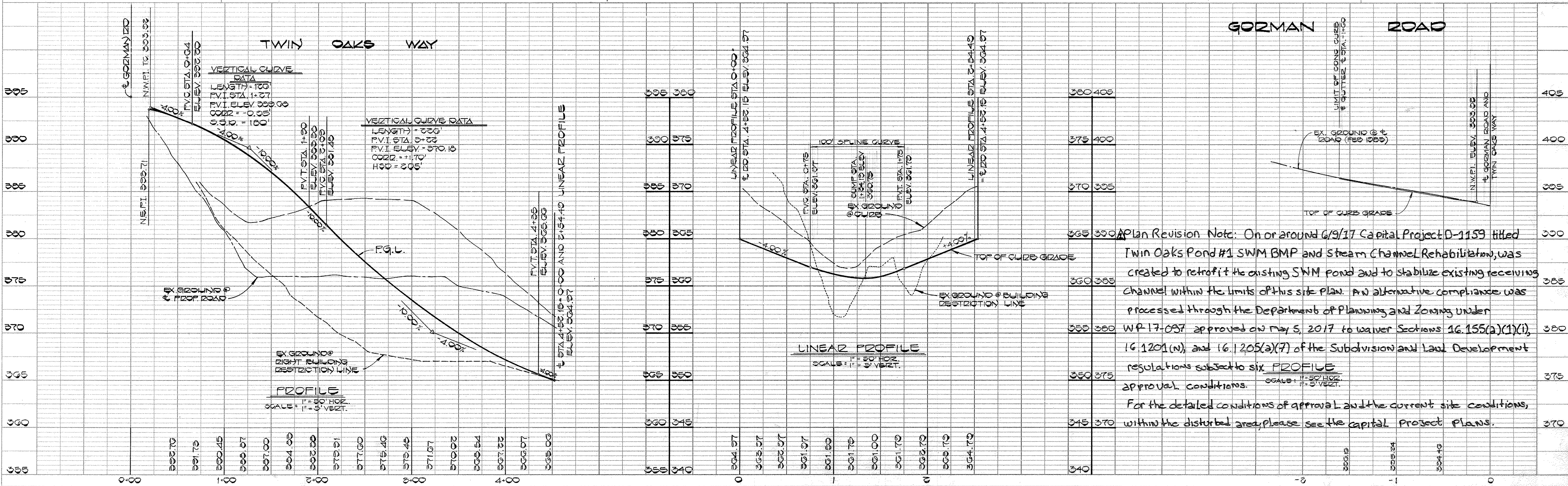
SCALE AS SHOWN | DATE: APRIL 10, 1985 | DWG. NO. 1 OF 6  
 DES. C. CROVO | DRN. A. BOGDAN | CHK. R. CARTER

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

APPROVED DEPARTMENT OF PUBLIC WORKS  
**Charles J. Crovo Sr.** 7-24-85  
 CHIEF, BUREAU OF ENGINEERING

APPROVED OFFICE OF PLANNING AND ZONING  
**John F. Liparini** 7-22-85  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

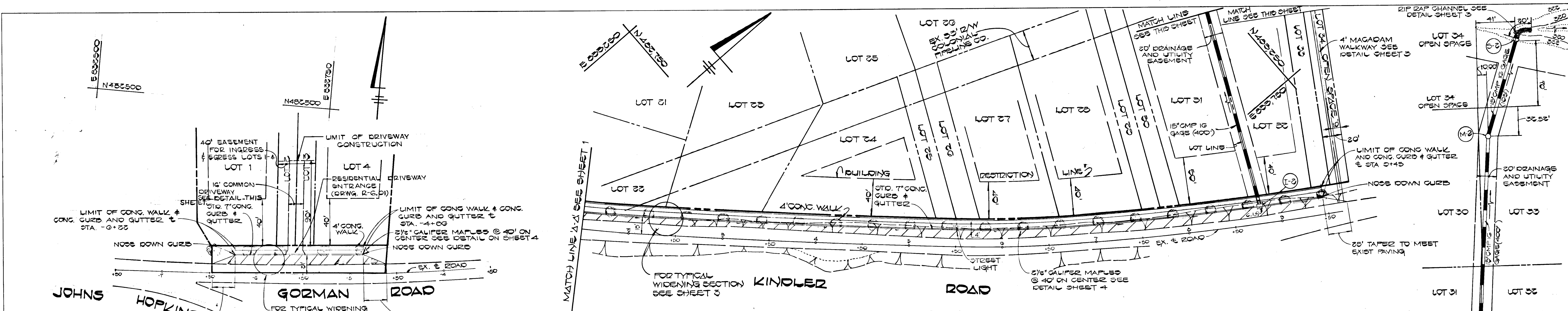
**STREET LIGHTS**  
 † 250 WATT MERCURY VAPOR LAMP PENDANT MOUNTED FIXTURES ON A 25-FOOT GALVANIZED STEEL POLE.



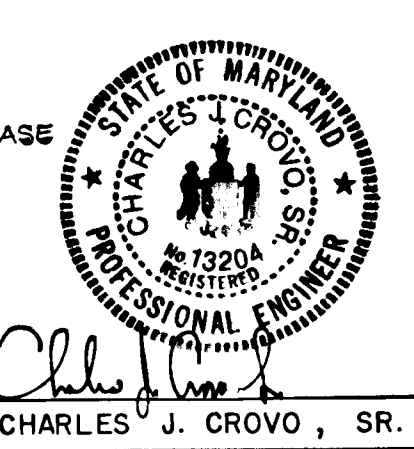
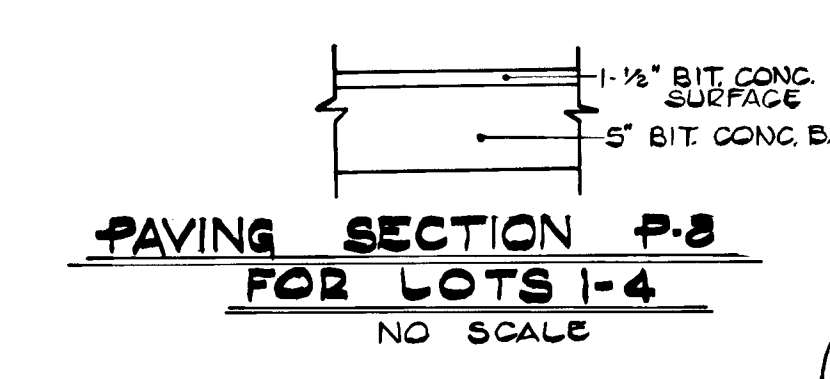
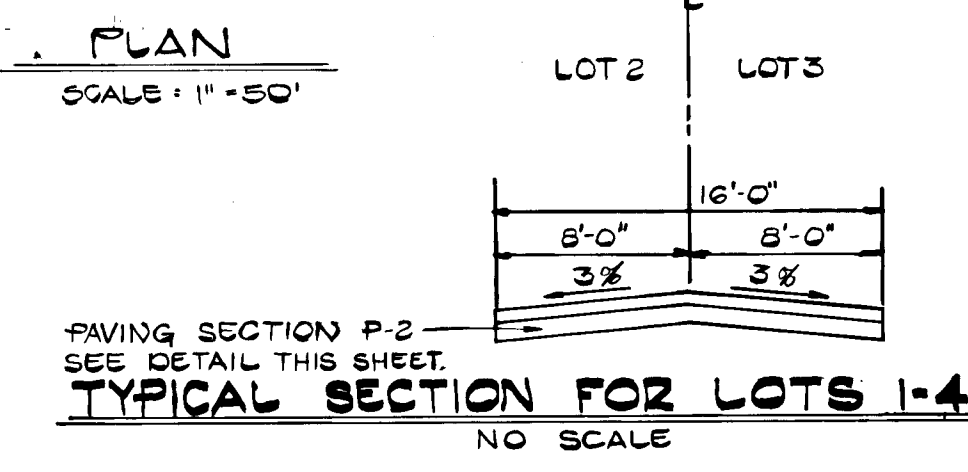


DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED, PLOTTED, GRADES CHECKED, ALLOWWAY CHECKED, NOTE BOOK NO. \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED, PLOTTED, GRADES CHECKED, STRUCTURE NOTATIONS CHECKED, NOTE BOOK NO. \_\_\_\_\_



APPROVED DEPARTMENT OF PUBLIC WORKS  
 7-24-85  
 APPROVED OFFICE OF PLANNING AND ZONING  
 7-22-85



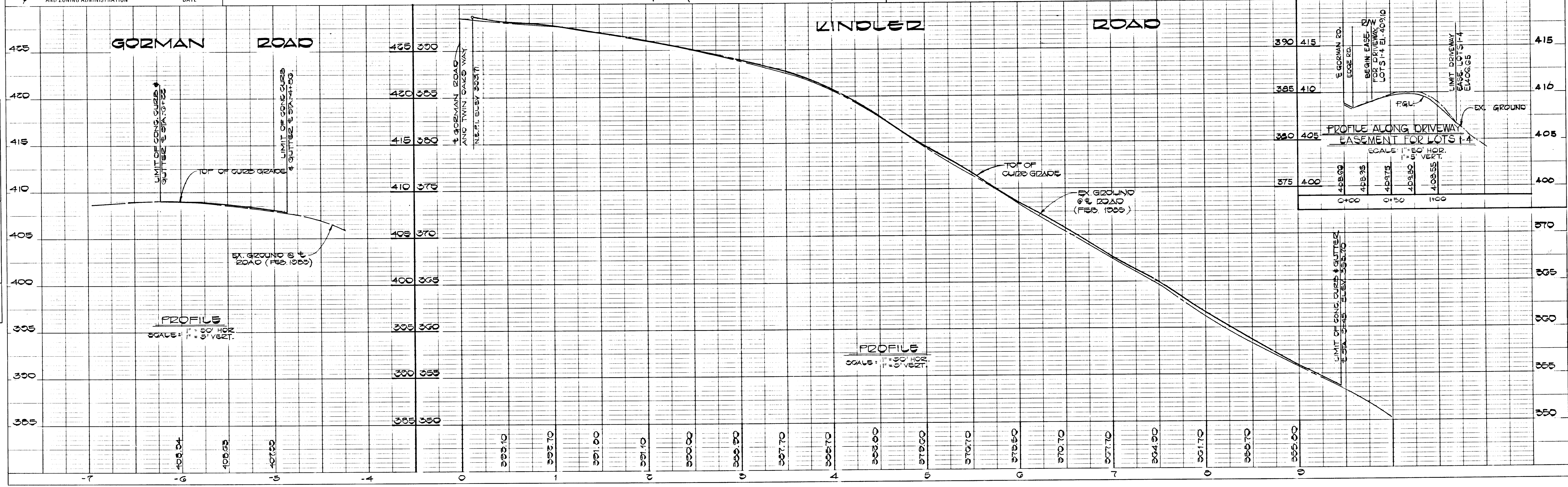
**TWIN OAKS**  
 6TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**GORMAN ROAD** **KINDLER ROAD**  
**PLAN & PROFILE** **PLAN & PROFILE**

OWNER AND DEVELOPER  
 BRANTLY DEVELOPMENT CORP.  
 5501 TWIN KNOLLS ROAD SUITE 105  
 COLUMBIA, MARYLAND 21045

SCALE AS SHOWN DATE APRIL 10, 1985 DWG. NO. 2 OF 6  
 DES. C. CROVO DRN. A. BOGDAN CHK. R. CARTER

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

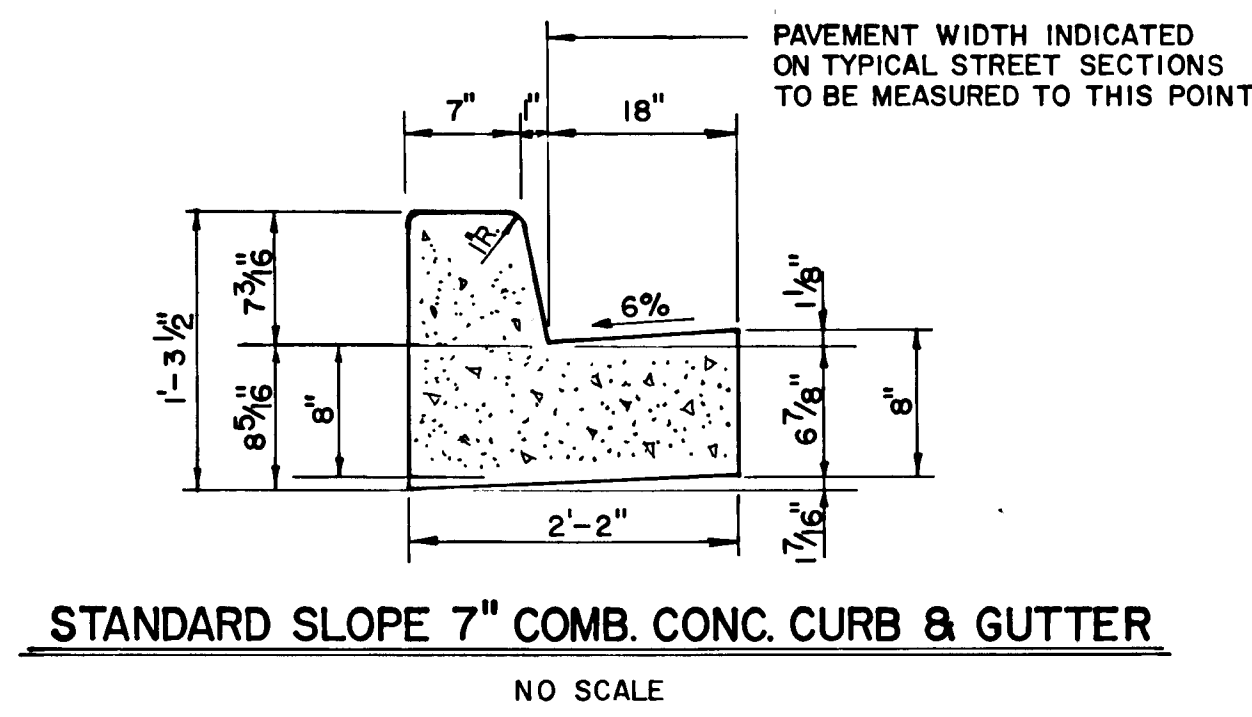
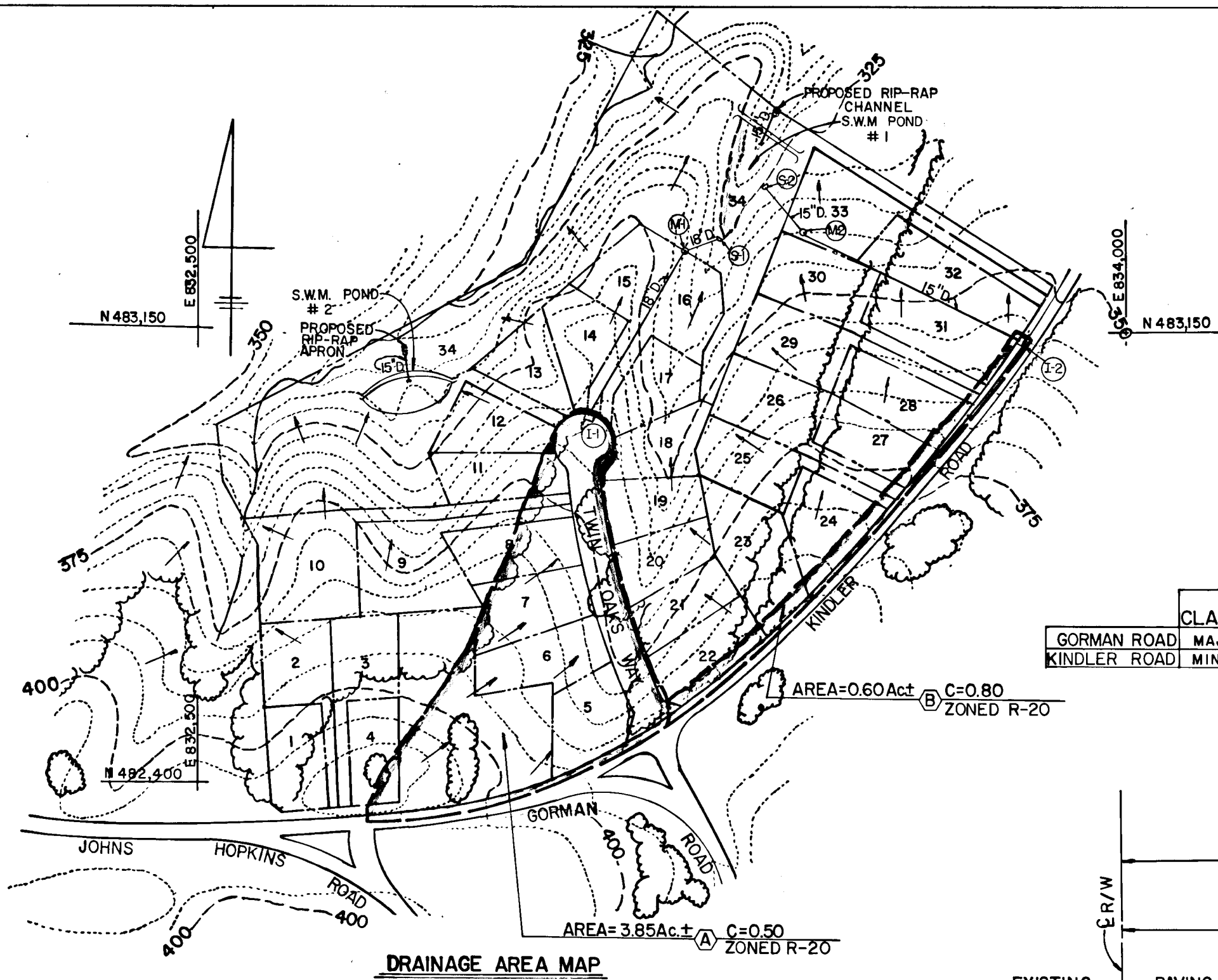


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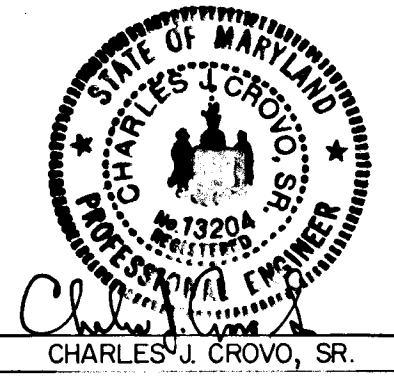
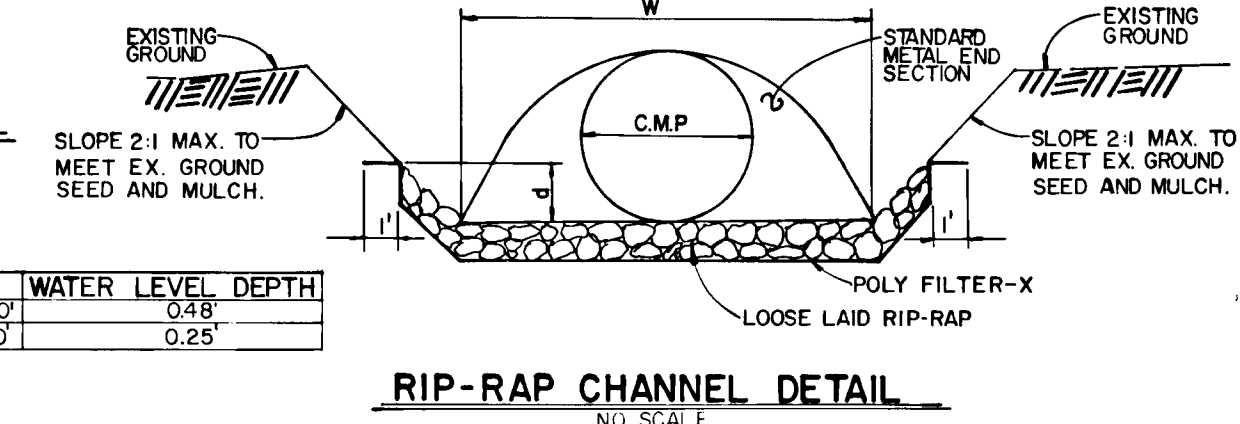
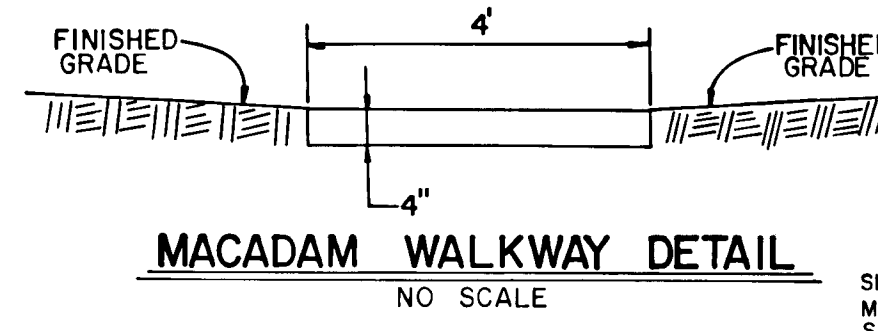
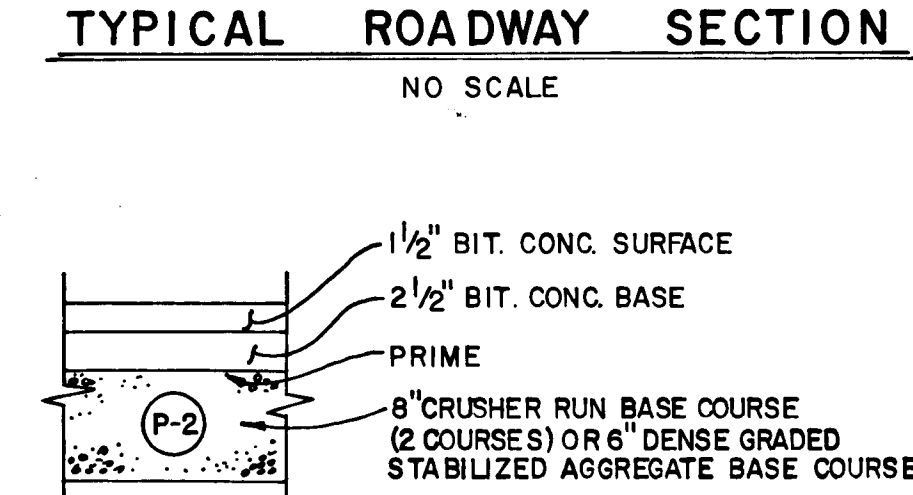
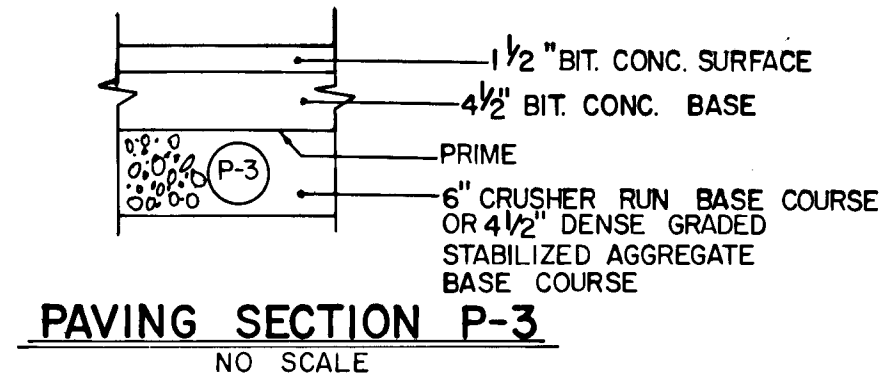
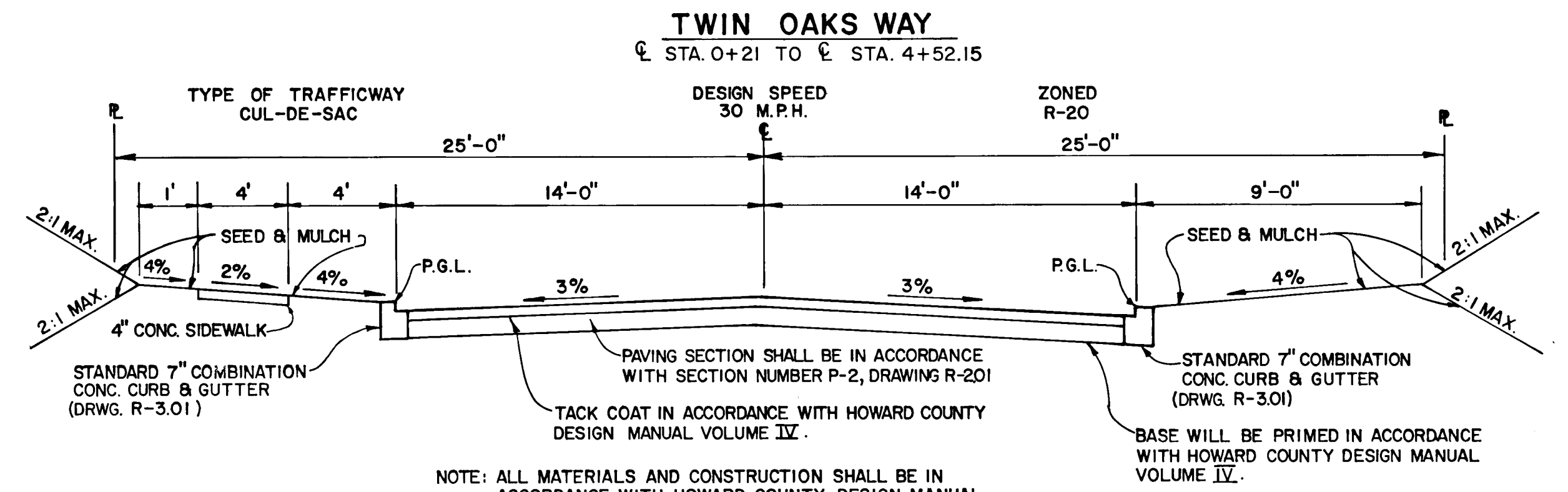
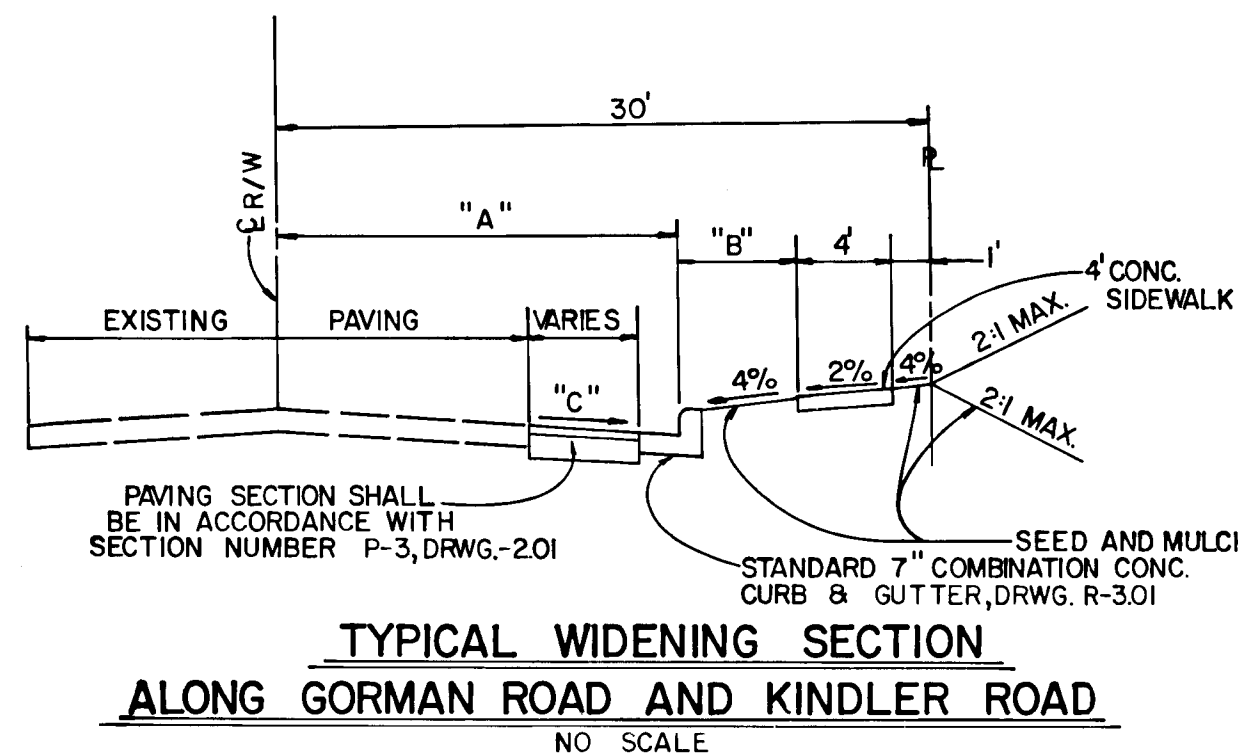


DATE  
BY  
SURVEYED  
PLOTTED  
CHECKED  
NOTE BOOK NO.

DATE  
BY  
SURVEYED  
PLOTTED  
CHECKED  
NOTE BOOK NO.



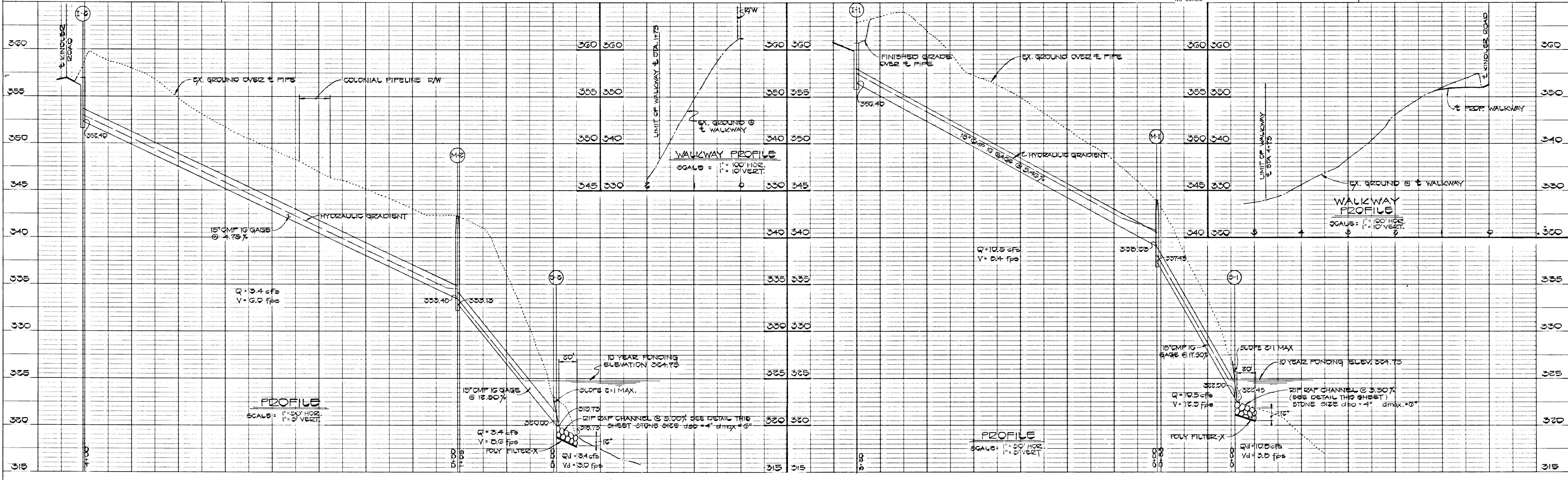
ROAD CLASSIFICATION	"A"	"B"	"C"	DESIGN SPEED	ZONING	LIMITS OF WORK
GORMAN ROAD MAJOR COLLECTOR	21'	4'	2%	50 MPH	R-20	0+00 TO -1+60 & -4+86 TO -6+22
KINDLER ROAD MINOR COLLECTOR	18'	7'	3%	40 MPH	R-20	0+00 TO 9+45



**TWIN OAKS**  
6 TH. ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
**DRAINAGE AREA MAP ROAD SECTIONS, DETAILS AND STORM DRAIN PROFILES**  
OWNER AND DEVELOPER  
BRANTLY DEVELOPMENT CORP.  
5501 TWIN KNOLLS ROAD SUITE 105  
COLUMBIA, MARYLAND 21045  
SCALE AS SHOWN DATE APRIL 10, 1985 DWG. NO. 3 OF 6  
DES. C. CROVO DRN. A. BOGDAN CHK. R. CARTER  
**FISHER, COLLINS AND CARTER, INC.**  
CIVIL ENGINEERS AND LAND SURVEYORS  
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

APPROVED DEPARTMENT OF PUBLIC WORKS  
7-24-85  
APPROVED OFFICE OF PLANNING AND ZONING  
7-22-85

NO.	TYPE	INVERT IN	INVERT OUT	TOP ELEV.	STATION	REMARKS
I-1	A-10	356.40	360.75	1+34.18	TWIN OAKS WAY	DRWG. SD.4.02
I-2	A-5 W/ REFLECTORS	352.40	357.00	8+79.18	KINDLER ROAD	DRWGS. SD.4.01 & SD. 4.83
M-1	STANDARD MANHOLE	344.00	338.93	337.43		DRWG. G.5.01
M-2	STANDARD MANHOLE	333.40	333.13	342.30		DRWG. G.5.01
S-1	STANDARD METAL END SECTION	322.90	324.40			DRWG. SD.5.61
S-2	STANDARD METAL END SECTION	320.00	321.25			DRWG. SD.5.61



#1135









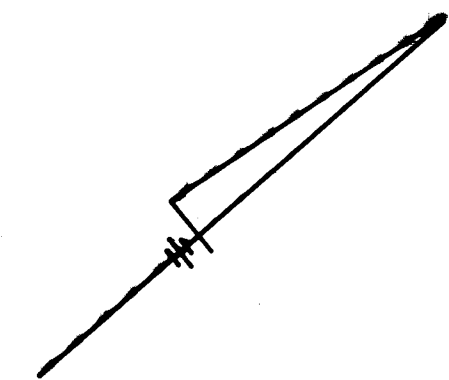


APPROVED  
DEPARTMENT OF PUBLIC WORKS  
*William E. R. Day* 7-24-85  
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED  
OFFICE OF PLANNING AND ZONING  
*Johann M. Muechler* 7-22-85  
CHIEF, DIVISION OF LAND DEVELOPMENT  
AND ZONING ADMINISTRATION DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION  
DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
*James H. Helm* 7-19-85  
U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR  
EROSION AND SEDIMENT CONTROL BY THE HOWARD  
SOIL CONSERVATION DISTRICT.  
*Robert J. Zehm* 7-19-85  
HOWARD SOIL CONSERVATION DISTRICT DATE



#1135

FISHER COLLINS AND CARTER, INC.  
CONSULTING ENGINEERS AND LAND SURVEYORS  
3330 SOUTH AVENUE  
BILLCOTT CITY, MARYLAND 21055



OWNER & DEVELOPER  
BRANTLY DEVELOPMENT CORP.  
3301 TWIN KNOLLS ROAD SUITE 105  
COLUMBIA, MARYLAND 21045

GRADING PLAN  
TWIN OAKS  
644 ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
JULY 10, 1985 SCALE: 1" = 50'  
SHEET 6 OF 6