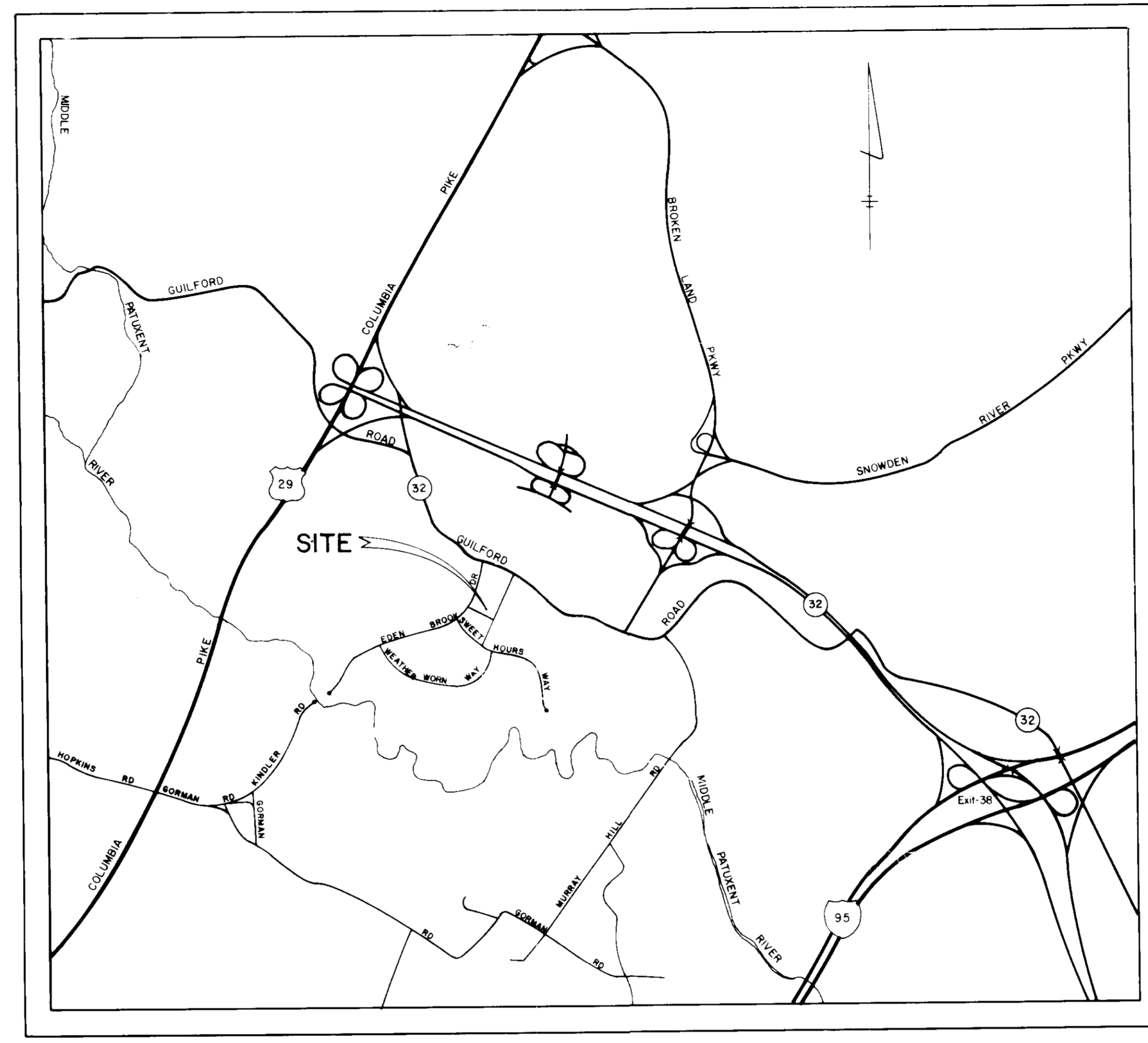


STRUCTURE SCHEDULE							
NO.	TYPE	INVERT IN	INVERT OUT	TOP ELEVATION	REMARKS	STATION	⊕
1-1	A-5	355.52	355.27	360.53	DRWG. SD 4.01	6+02.53	15' LEFT Ⓢ
1-2	A-5	356.21	355.21	360.33	DRWG. SD 4.01	4+89.53	15' LEFT Ⓢ
1-3	A-5	355.37	355.37	360.33	DRWG. SD 4.01	4+89.53	25' LEFT Ⓢ
1-4	A-5	356.26	355.25	360.53	DRWG. SD 4.01	3+79.53	15' LEFT Ⓢ
1-5	A-5	356.19	356.19	360.53	DRWG. SD 4.01	3+79.53	29' LEFT Ⓢ
1-6	A-5	357.34	357.34	362.83	DRWG. SD 4.01	2+72	15' RIGHT Ⓢ
1-7	A-5	342.61	341.55	356.36	DRWG. SD 4.01	*	*
1-8	A-5	353.86	352.61	359.63	DRWG. SD 4.01	5+23.56	15' RIGHT Ⓢ
1-9	A-5	354.12	354.12	359.63	DRWG. SD 4.01	5+23.56	25' RIGHT Ⓢ
1-10	A-5	355.68	354.72	360.83	DRWG. SD 4.01	2+81.08	15' RIGHT Ⓢ
1-11	A-5	356.61	356.61	360.63	DRWG. SD 4.01	1+83	22' LEFT Ⓢ
1-12	A-5	347.39	347.32	355.43	DRWG. SD 4.01	9+38.50	27' LEFT Ⓢ
1-13	A-5	345.07	344.82	357.53	DRWG. SD 4.01	9+38.50	7' RIGHT Ⓢ
1-14	A-5	354.32	354.32	359.00	DRWG. SD 4.01	8+46.05	32.28' RIGHT Ⓢ
1-15	DOUBLE "S" COMB. INLET WITH PETICULAR GRATES	338.58	338.30	346.75	DRWG. MD 379.04	10+25	22' RIGHT Ⓢ
M-1	STANDARD MANHOLE	338.58	338.30	346.75	DRWG. G 5.02	*	*
M-2	STANDARD MANHOLE	348.28	345.38	361.30	DRWG. G 5.02	*	*
M-3	STANDARD MANHOLE	350.91	350.45	363.00	DRWG. G 5.02	*	*
M-4	STANDARD MANHOLE	352.62	352.10	364.00	DRWG. G 5.02	*	*
M-5	STANDARD MANHOLE	--	355.80	361.15	DRWG. G 5.01	*	*
M-6	STANDARD MANHOLE	311.25	311.00	320.75	DRWG. G 5.02	*	*
M-7	STANDARD MANHOLE	349.99	349.65	361.75	DRWG. G 5.02	*	*
M-8	STANDARD MANHOLE	352.63	351.77	360.54	DRWG. G 5.02	5+03.46	10' LEFT Ⓢ
M-9	STANDARD MANHOLE	353.00	352.75	360.20	DRWG. G 5.02	4+46.78	10' LEFT Ⓢ
M-10	STANDARD MANHOLE	--	358.12	363.00	DRWG. G 5.01	*	*
M-11	STANDARD MANHOLE	345.07	344.82	350.30	DRWG. G 5.01	37+84	27' RIGHT Ⓢ
S-1	STANDARD METAL END SECTION	--	335.45	338.20	DRWG. SD 5.61	--	--
S-2	STANDARD METAL END SECTION	--	308.55	311.30	DRWG. SD 5.61	--	--
S-3	STANDARD METAL END SECTION	--	364.70	365.95	DRWG. SD 5.61	--	--
S-4	STANDARD METAL END SECTION	--	365.58	366.83	DRWG. SD 5.61	--	--
S-5	BEND STRUCTURE	370.70	370.00	371.92	SEE DETAIL SHEET 5	--	--

INDEX OF SHEETS	
NO.	TITLE
1	TITLE SHEET
2	SITE PLAN
3	SITE PLAN
4	SITE PLAN
5	SITE PLAN
6	DRAINAGE AREA MAP
7	STORM DRAIN PROFILES
8	SEDIMENT CONTROL PLAN
9	DETAIL SHEET
10	LIGHTING & LANDSCAPE PLAN



LOCATION MAP  
SCALE: 1" = 2000'

- GENERAL NOTES:
- TOTAL AREA OF SITE: 13.178 AC.±
  - PRESENT ZONING: NEW TOWN (N.T. - EMPLOYMENT CENTER COMMERCIAL).
  - PROPERTY IS RECORDED AS PLAT NO. 0270.
  - FINAL DEVELOPMENT PLAN PHASE 178 - PART IV IS RECORDED IN PLAT 000A-120.
  - PROPERTY IS SHOWN ON TAX MAP 42, PART OF PARCEL 13.
  - PARKING DATA:
    - INTENDED USE OF STRUCTURE: RETAIL STORES AND OFFICES.
    - TOTAL AREA OF BUILDING:
      - TOTAL RETAIL FLOOR AREA: 75,425 S.F.
      - TOTAL OFFICE FLOOR AREA: 19,000 S.F.
    - TOTAL NUMBER OF SPACES REQUIRED (PER FDP CRITERIA): 435 SPACES
      - 5 SPACES/1,000 S.F. NET LEASABLE RETAIL COMMERCIAL AREA: 75,425 S.F. ÷ 1,000 = 75.4 x 5 = 378 SPACES
      - 3 SPACES/1,000 S.F. NET LEASABLE OFFICE SPACE: 19,000 S.F. ÷ 1,000 = 19.0 x 3 = 57 SPACES
      - HANDICAPPED SPACES REQUIRED: 9
    - TOTAL NUMBER OF SPACES PROVIDED: 430 SPACES
      - REGULAR SPACES (9' x 20') = 430
      - HANDICAPPED SPACES (12' x 20') = 9
  - THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY CONSTRUCTION INSPECTION/SURVEY DIVISION 24 HOURS PRIOR TO COMMENCEMENT OF WORK AT 992-7272.
  - HANDICAPPED FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THE "DESIGN OF BARRIER FREE FACILITIES" AND THE "MARYLAND BUILDING CODE FOR THE HANDICAPPED AND AGED".
  - ALL PAVING AND STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
  - EXISTING UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD AND OFFICE INFORMATION. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES TO HIS OWN SATISFACTION BEFORE MAKING ANY CONNECTION THERETO OR EXCAVATING IN THE AREA THEREOF.
  - THE CONTRACTOR SHALL NOTIFY MISS UTILITY 558-0100 A MINIMUM OF THREE DAYS PRIOR TO BEGINNING ANY CONSTRUCTION SHOWN HEREON.
  - SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS.
  - STORM WATER MANAGEMENT FOR THIS SITE IS PROVIDED UNDER F-80-96.

# VILLAGE OF KINGS CONTRIVANCE

## SECTION 2 AREA 4

# VILLAGE CENTER

## HOWARD COUNTY, MARYLAND

*Charles J. Conner*

5-15-85  
*m/hum*

ADDRESS CHART	
BUILDING NUMBER	STREET ADDRESS
A	8620 GUILFORD ROAD
B	8640 GUILFORD ROAD
C	8630 GUILFORD ROAD

OWNER AND DEVELOPER:  
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND 21044

Rev. Date	Rev. No.	Revision Description
5-7-85	2	REVISED PARKING DATA
5/14/85	1	PER H20 COMMENTS DATED 5/11/85

**COLUMBIA**  
M A R Y L A N D

OWNER AND DEVELOPER  
**HOWARD RESEARCH AND DEVELOPMENT CORP.**

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERS & LAND SURVEYORS  
8388 COURT AVE.  
ELLICOTT CITY, MD. 21043  
(301) 461-2855

**ENGINEER'S CERTIFICATE**  
I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Charles J. Conner*  
SIGNATURE OF ENGINEER  
3/15/85  
DATE

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

*John H. Neal, Jr.*  
SIGNATURE OF DEVELOPER  
3-15-85  
DATE

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

*Stephen L. Linker*  
7/10/85  
DATE  
U.S. SOIL CONSERVATION SERVICE

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

APPROVED:  
*Stephen L. Linker*  
7/10/85  
DATE  
DISTRICT  
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: OFFICE OF PLANNING AND ZONING

*William J. Hough*  
7-17-85  
DATE  
PLANNING DIRECTOR

*John W. Masserman*  
7-16-85  
DATE  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS.

*John W. Masserman*  
DATE  
HEALTH OFFICER

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER AND SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.

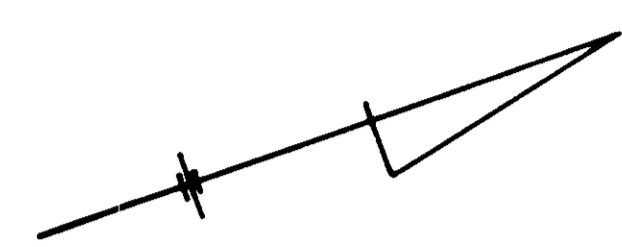
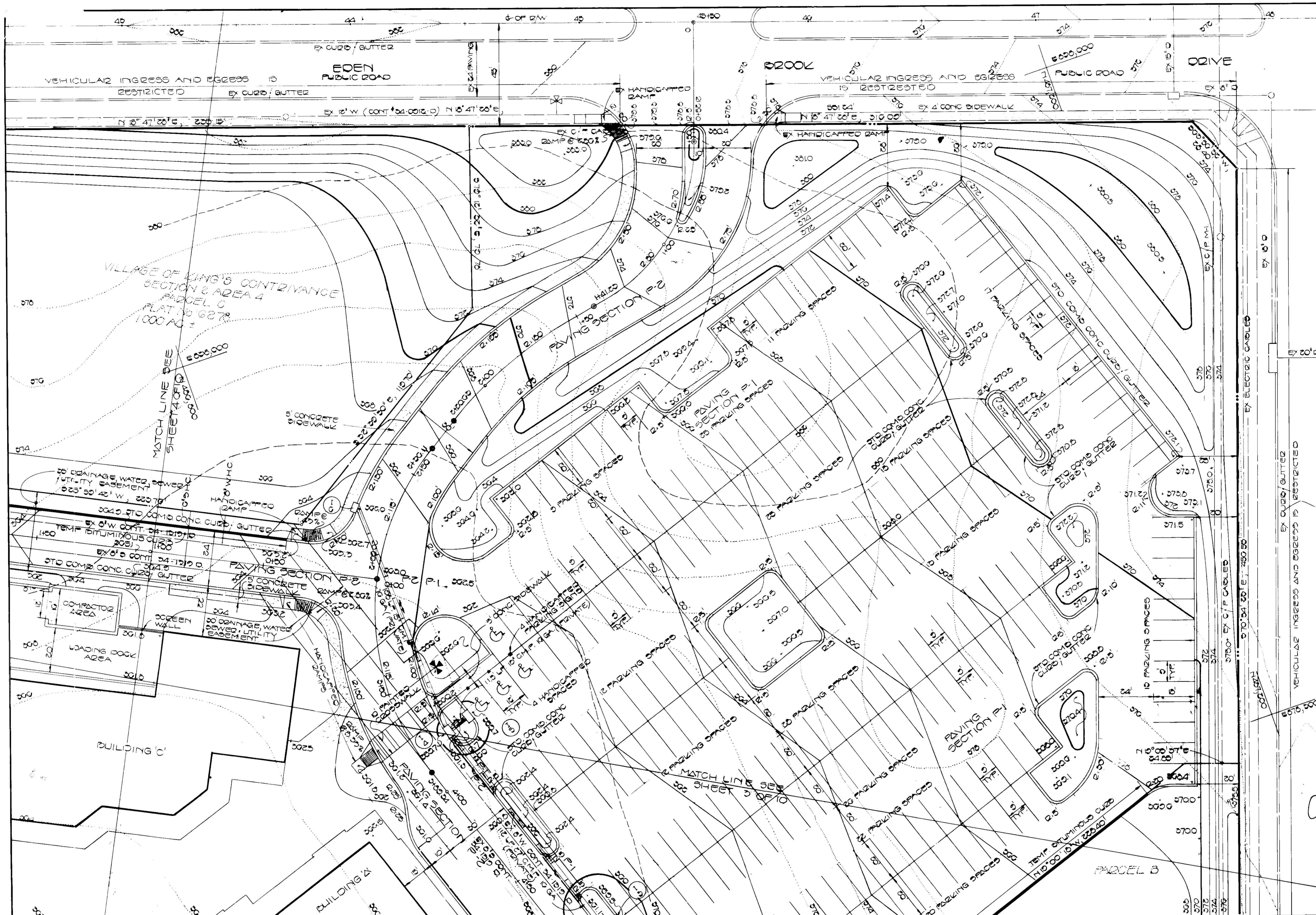
*John W. Masserman*  
7-15-85  
DATE  
DIRECTOR PUBLIC WORKS

*John W. Masserman*  
7-12-85  
DATE  
CHIEF, BUREAU OF ENGINEERING

SUBDIVISION NAME	SECTION/AREA	PARCEL No
VILLAGE OF KINGS CONTRIVANCE	2 / 4	PAR 'D'
PLAT No	BLOCK No	ZONE
0270	7	NT/COMM
TAX / ZONE MAP	ELEC. DIST	CENSUS TR.
42	6TH	0002
WATER CODE	SEWER CODE	
E-1G	0230000	

PROJECT AREA	PROJECT TITLE	Des. By	Scale	Dwg. No.
VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 4 PARCEL 'D'	KINGS CONTRIVANCE VILLAGE CENTER TITLE SHEET	B. D. BURTON	AS SHOWN	1 OF 10
6TH ELECTION DISTRICT HOWARD COUNTY MD		W. K. FRALIC	MARCH 4, 1985	C.C.F. No.
		R. B. CARTER	Approved	





5-15-85  
M. J. M.

OWNER AND DEVELOPER:  
THE HOWARD RESEARCH AND  
DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND 21044

*Chad Carter*

4-27-85	2	SHIFTED PARKING ISLANDS
3/14/85	1	PER HQ COMMENTS DATED 3/11/85
Rev. Date	Rev. No	Revision Description

# COLUMBIA

M A R Y L A N D

OWNER AND DEVELOPER  
**HOWARD RESEARCH AND DEVELOPMENT CORP.**

PROJECT AREA VILLAGE OF KING'S CONTRIVANCE  
SECTION 2 AREA 4  
6TH ELECTION DISTRICT HOWARD COUNTY, MD

PROJECT TITLE  
KING'S CONTRIVANCE  
VILLAGE CENTER  
SITE DEVELOPMENT PLAN

Des. By B. D. BURTON Scale 1" = 20' Dwg. No. 2 OF 10  
Dn. By W. K. FRALIC Date MARCH 4, 1985 C.C.F. No.  
Chk. By R. B. CARTER Approved

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERS & LAND SURVEYORS  
9388 COURT AVE.  
ELLCOTT CITY, MD. 21043  
(301) 461-2855

**ENGINEER'S CERTIFICATE**  
I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Chad Carter*  
SIGNATURE OF ENGINEER  
3/15/85  
DATE

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

*John H. Neal*  
SIGNATURE OF DEVELOPER  
3-15-85  
DATE

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

*Stephen L. Fisher* 7/10/85  
U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
APPROVED:  
*Stephen L. Fisher* 7/10/85  
DISTRICT MANAGER HOWARD SOIL CONSERVATION DISTRICT

APPROVED: OFFICE OF PLANNING AND ZONING

*John H. Neal* 7-17-85  
PLANNING DIRECTOR DATE

*John H. Neal* 7-16-85  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS.  
*John H. Neal* 7-16-85  
DISTRICT MANAGER

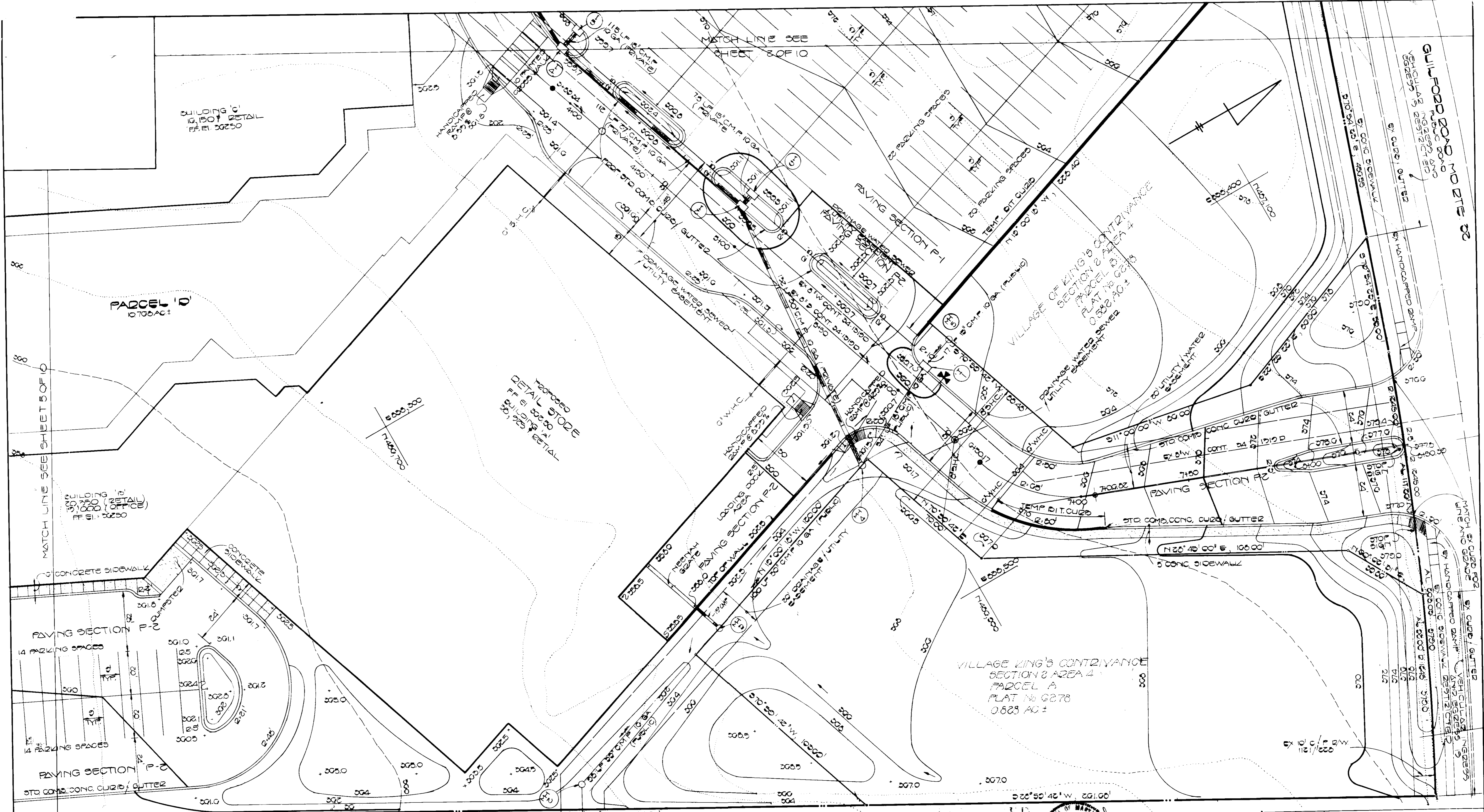
APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER AND SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.

*John F. Neely* 7-15-85  
DIRECTOR, PUBLIC WORKS DATE

*John F. Neely* 7-15-85  
CHIEF, BUREAU OF ENGINEERING DATE

SUBDIVISION NAME SECTION/AREA PARCEL No.  
VILLAGE OF KING'S CONTRIVANCE 2 / 4 PAR. D'  
PLAT No. BLOCK No. ZONE TAX / ZONE ELEC. DIST. CENSUS TR.  
0270 7 NT/COMM MAP 42 6TH 0002  
WATER CODE 6-1G SEWER CODE 0200000





THE HOWARD RESEARCH & DEVELOPMENT CORP.  
400 / 500  
ZONED INT.

5-15-85  
M. J. JAMES

*Charles Carter*

OWNER AND DEVELOPER:  
THE HOWARD RESEARCH AND  
DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND 21044

Rev. Date	Rev. No.	Revision Description
3/14/85	1	PER H2D COMMENTS DATED 3/11/85

**COLUMBIA**  
MARYLAND

OWNER AND DEVELOPER  
**HOWARD RESEARCH AND DEVELOPMENT CORP.**

PROJECT AREA VILLAGE OF KINGS CONTRIVANCE  
SECTION 2 AREA 4  
PARCEL A  
6TH ELECTION DISTRICT HOWARD COUNTY MD.

PROJECT TITLE  
KINGS CONTRIVANCE  
VILLAGE CENTER  
SITE DEVELOPMENT PLAN

Des. By B.D. BURTON Scale 1" = 20' Deg. No. 3 OF 10  
Dra. By W.K. FRALIC Date MARCH 4, 1985 C.C.F. No.  
Chk. By R.B. CARTER Approved

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERS & LAND SURVEYORS  
8388 COURT AVE.  
ELLCOTT CITY, MD. 21043  
(301) 461-2855

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*Charles Carter*  
SIGNATURE OF ENGINEER  
3/15/85  
DATE

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

*John H. Hall*  
SIGNATURE OF DEVELOPER  
3-15-85  
DATE

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

*Thomas McTeague* 2/10/85  
U.S. SOIL CONSERVATION SERVICE DATE

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

APPROVED:  
*Stephen L. Staley* 7/10/85  
DISTRICT OFFICIAL DATE

APPROVED: OFFICE OF PLANNING AND ZONING

*Thomas J. Hamill* 7-17-85  
PLANNING DIRECTOR DATE

*William H. Hester* 7-16-85  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS.

*James R. ...* 7-16-85  
DISTRICT OFFICIAL DATE

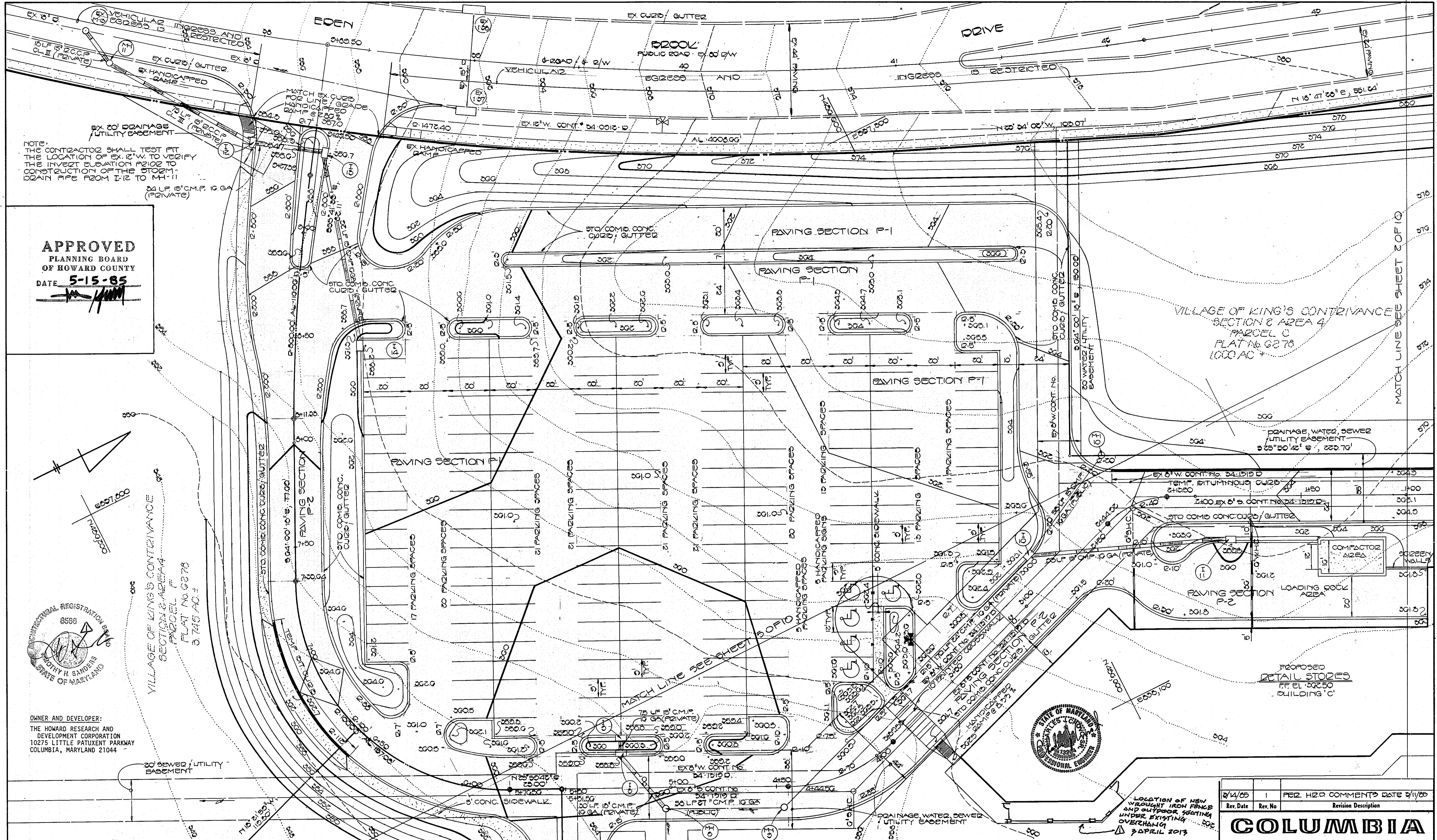
APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER AND SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.

*James F. ...* 7-17-85  
DIRECTOR OF PUBLIC WORKS DATE

*James F. ...* 7-16-85  
CHIEF, BUREAU OF ENGINEERING DATE

SUBDIVISION NAME	SECTION/AREA	PARCEL NO.
VILLAGE OF KINGS CONTRIVANCE	2 / 4	PAR 'D'
PLAT NO./L.F.	BLOCK NO.	ZONE
0278	7	COMM.
TAX MAP	42	ELEC. DIST.
6TH	GOQC	CENSUS TR.
WATER CODE	6-10	SEWER CODE
		0350000





**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 5-15-85



OWNER AND DEVELOPER:  
 THE HOWARD RESEARCH AND  
 DEVELOPMENT CORPORATION  
 10275 LITTLE PATUXENT PARKWAY  
 COLUMBIA, MARYLAND 21044

Rev. Date	Rev. No.	PERZ. H2D COMMENTS	DATE
3/14/85	1	PERZ. H2D COMMENTS	DATE 3/14/85

**COLUMBIA**  
 MARYLAND  
 OWNER AND DEVELOPER  
 HOWARD RESEARCH AND DEVELOPMENT CORP.

PROJECT AREA	VILLAGE OF KING'S CONTRIVANCE SECTION 2 AREA 4 PARCEL C
6TH ELECTION DISTRICT	HOWARD COUNTY, MD.
PROJECT TITLE	KING'S CONTRIVANCE VILLAGE CENTER SITE DEVELOPMENT PLAN
Des. By	B. D. BURTON Scale 1" = 20'
Drn. By	W. K. FRALIC Date MARCH 4, 1985
CHK. By	R. B. CARTER Approved

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERS & LAND SURVEYORS  
 8388 COURT AVE.  
 ELLICOTT CITY, MD. 21043  
 (301) 461-2855

**ENGINEER'S CERTIFICATE**  
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY ZONING DISTRICT.  
  
 3/15/85  
 DATE

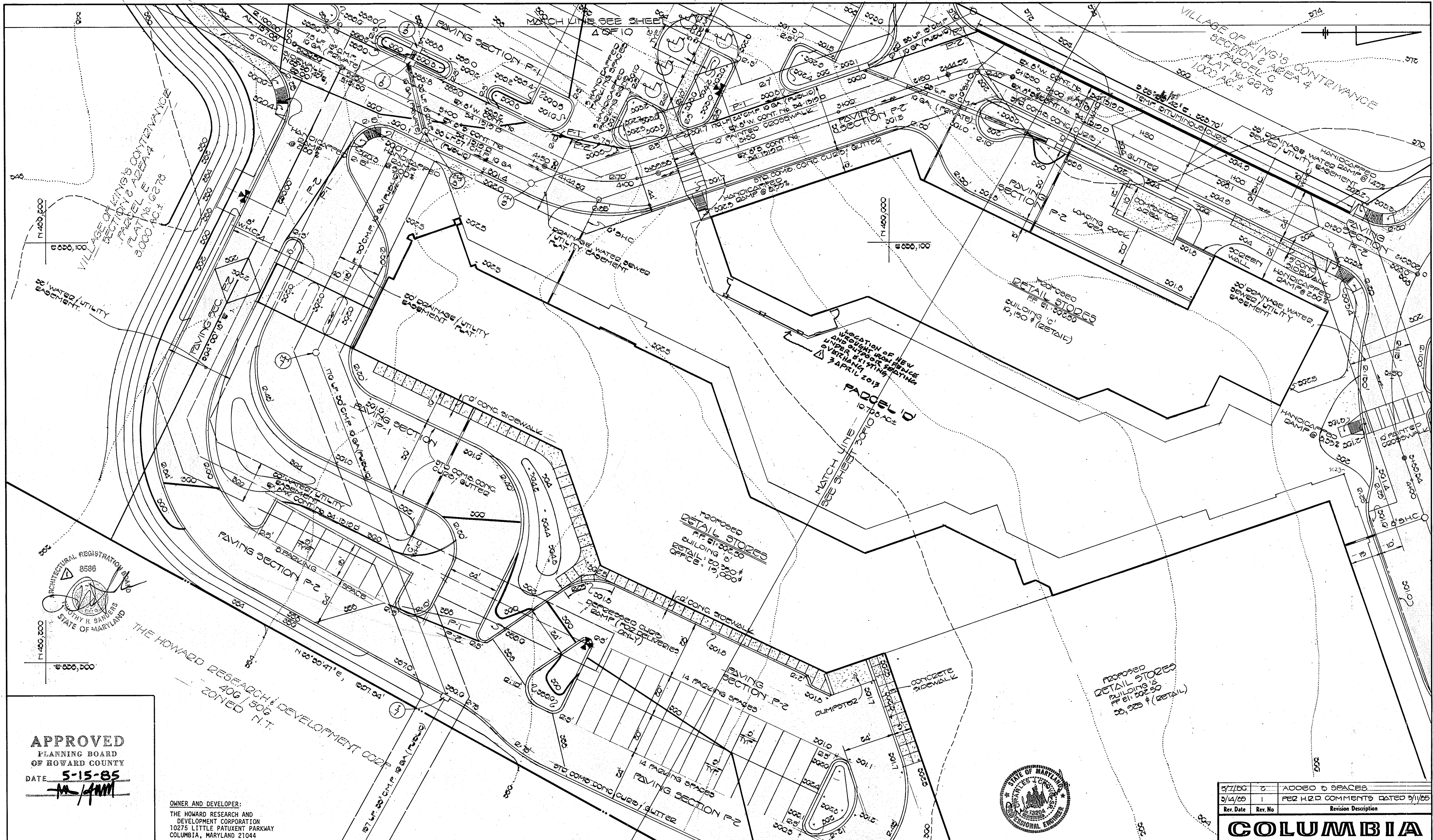
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 3-15-85  
 DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
  
 7/10/85  
 DATE  
 DISTRICT DIRECTOR  
 HOWARD SOIL CONSERVATION DISTRICT

APPROVED: OFFICE OF PLANNING AND ZONING DISTRICT  
  
 7-17-85  
 DATE  
 PLANNING DIRECTOR  
 DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
 APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS.  
  
 7/14/85  
 DATE  
 HEALTH OFFICER

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER AND SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.  
  
 7-15-85  
 DATE  
 DIRECTOR OF PUBLIC WORKS  
 CHIEF, BUREAU OF ENGINEERING  
  
 DATE  
 CHIEF, BUREAU OF ENGINEERING





**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 5-15-85  
*[Signature]*

OWNER AND DEVELOPER:  
 THE HOWARD RESEARCH AND  
 DEVELOPMENT CORPORATION  
 10275 LITTLE PATUXENT PARKWAY  
 COLUMBIA, MARYLAND 21044

**FISHER, COLLINS & CARTER, INC.**  
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*[Signature]*  
 SIGNATURE OF ENGINEER  
 DATE 3/15/85

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*[Signature]*  
 SIGNATURE OF DEVELOPER  
 DATE 3-15-85

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
*[Signature]*  
 U.S. SOIL CONSERVATION SERVICE  
 DATE 7/10/85  
 THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 APPROVED:  
*[Signature]*  
 DATE 7/10/85  
 HOWARD SOIL CONSERVATION DISTRICT

APPROVED: OFFICE OF PLANNING AND ZONING  
*[Signature]* 7-17-85  
 PLANNING DIRECTOR  
*[Signature]* 7-16-85  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
 APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS.  
*[Signature]* 7/16/85  
 HEALTH OFFICER

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER AND SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.  
*[Signature]* 7-15-85  
 DIRECTOR, PUBLIC WORKS  
 APPROVED:  
*[Signature]* 7-15-85  
 CHIEF, BUREAU OF ENGINEERING

5/7/85	2	ADDED 6 SPACES
5/14/85	1	PER H&D COMMENTS DATED 3/11/85
Rev. Date	Rev. No	Revision Description
<b>COLUMBIA</b>		
M A R Y L A N D		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP.		
PROJECT AREA	VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 4	
	6TH ELECTION DISTRICT, HOWARD COUNTY, MD.	
PROJECT TITLE	KINGS CONTRIVANCE VILLAGE CENTER SITE DEVELOPMENT PLAN	
Des. By B. D. BURTON	Scale 1" = 20'	Dwg. No. 5 OF 10
Drn. By W. K. FRALIC	Date MARCH 4, 1984	CCF. No.
Chk. By R. B. CARTER	Approved	



**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 Collins*  
 SIGNATURE OF ENGINEER

3/15/85  
 DATE

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

*John H. ...*  
 SIGNATURE OF DEVELOPER

3-15-85  
 DATE

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

APPROVED:  
*Stephen S. ...*  
 DIRECTOR  
 HOWARD SOIL CONSERVATION DISTRICT

7/10/85  
 DATE

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

*...*  
 U.S. SOIL CONSERVATION SERVICE

7/10/85  
 DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS.  
 FOR PUBLIC WATER AND SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.

*...*  
 DIRECTOR, PUBLIC WORKS

7-11-85  
 DATE

*...*  
 CHIEF, BUREAU OF ENGINEERING

7-11-85  
 DATE

APPROVED: OFFICE OF PLANNING AND ZONING

*Thomas ...*  
 PLANNING DIRECTOR

7-17-85  
 DATE

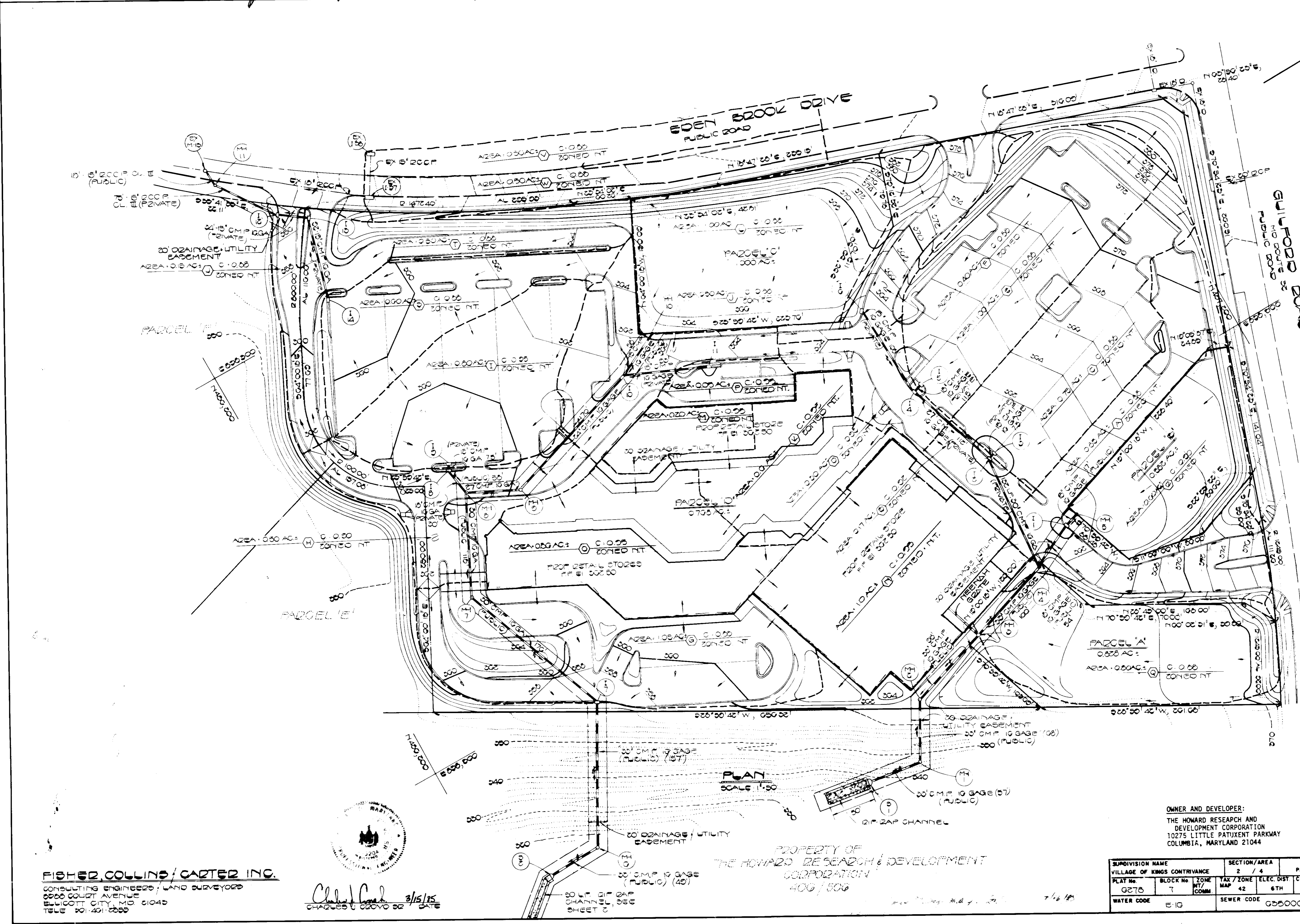
*John W. ...*  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

7-16-85  
 DATE

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT  
 FOR PUBLIC WATER AND SEWERAGE SYSTEMS.

*...*  
 HEALTH OFFICER

7-16-85  
 DATE



5-15-85  
*...*

**FISHER COLLINS / CARTER INC.**  
 CONSULTING ENGINEERS / LAND SURVEYORS  
 6900 COLIET AVENUE  
 BELLCOTT CITY, MD 21040  
 TELE 301-401-0000

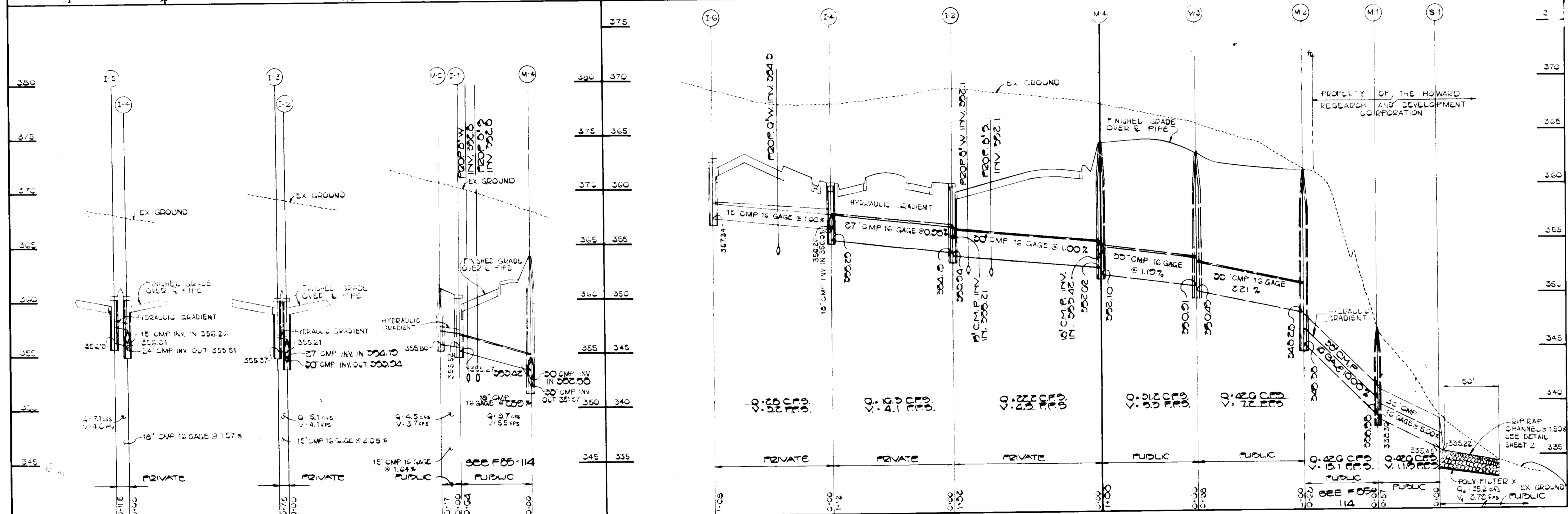
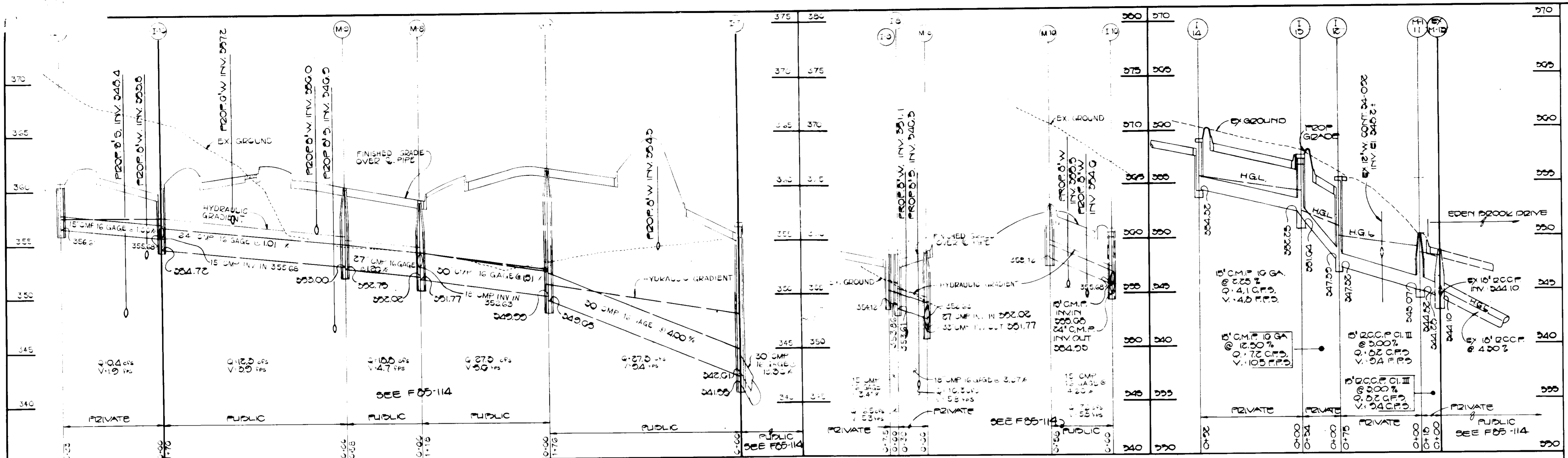
*Charles Collins*  
 3/15/85  
 DATE

PROPERTY OF  
 THE HOWARD RESEARCH & DEVELOPMENT  
 CORPORATION  
 400 / 500

OWNER AND DEVELOPER:  
 THE HOWARD RESEARCH AND  
 DEVELOPMENT CORPORATION  
 10275 LITTLE PATUXENT PARKWAY  
 COLUMBIA, MARYLAND 21044

SUBDIVISION NAME	VILLAGE OF KINGS CONTRIVANCE	SECTION/AREA	2 / 4	PARCEL NO.	PAR 15
PLAT No.	6278	BLOCK No.	7	MAP No.	42
WATER CODE	E1G	SEWER CODE	0350000	ELEC. DIST.	6TH
				CENSUS TR.	0002

2-14-85	1	FOR H2D COMMENTS DATED 2/11/85
Rev. Date	Rev. No.	Revision Description
<b>COLUMBIA</b>		
M A R Y L A N D		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP.		
PROJECT AREA	VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 4 PARCEL 15	
	6TH ELECTION DISTRICT HOWARD COUNTY MD	
PROJECT TITLE	KINGS CONTRIVANCE VILLAGE CENTER DRAINAGE AREA PLAN	
Des. By	B. D. BURTON	Scale AS SHOWN
Drn. By	W. K. FRALIC	Drawn Date MARCH 4, 1985
Chk. By	R. B. CARTER	Approved
		Draw. No. 6 OF 10 C.C.F. No.



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

5-15-85  
M/FLM

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

**ENGINEER'S CERTIFICATE**  
I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
*Charles G. Carter*  
SIGNATURE OF ENGINEER  
3/15/85  
DATE

**DEVELOPER'S CERTIFICATE**  
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."  
*John H. Nally*  
SIGNATURE OF DEVELOPER  
3-15-85  
DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
*James M. K. Coon*  
U.S. SOIL CONSERVATION SERVICE  
DATE 7/16/85  
APPROVED: HOWARD COUNTY SOIL CONSERVATION DISTRICT  
*Stephen L. Fuller*  
DISTRICT ENGINEER  
DATE 7/16/85

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER AND SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.  
*James F. Nalley*  
DIRECTOR OF PUBLIC WORKS  
DATE 7-15-85  
*John W. H. [Signature]*  
CHIEF, BUREAU OF ENGINEERING  
DATE 7-17-85  
APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS.  
*James M. Bond*  
HEALTH OFFICER  
DATE 7/16/85

APPROVED: OFFICE OF PLANNING AND ZONING  
*John W. H. [Signature]*  
PLANNING DIRECTOR  
DATE 7-17-85  
*John W. H. [Signature]*  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
DATE 7-16-85  
SUPERVISION NAME: VILLAGE OF KINGS CONTRIVANCE  
SECTION/AREA: 2 / 4  
PARCEL NO.: PAR 'D'  
PLAT NO.: 0278  
BLOCK NO.: 7  
ZONE: NTY/COMM  
TAX / ZONE ELEC. DIST. MAP: 42  
CENSUS TR.: 6TH  
GOCG  
WATER CODE: E-1G  
SEWER CODE: G050000



OWNER AND DEVELOPER:  
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND 21044

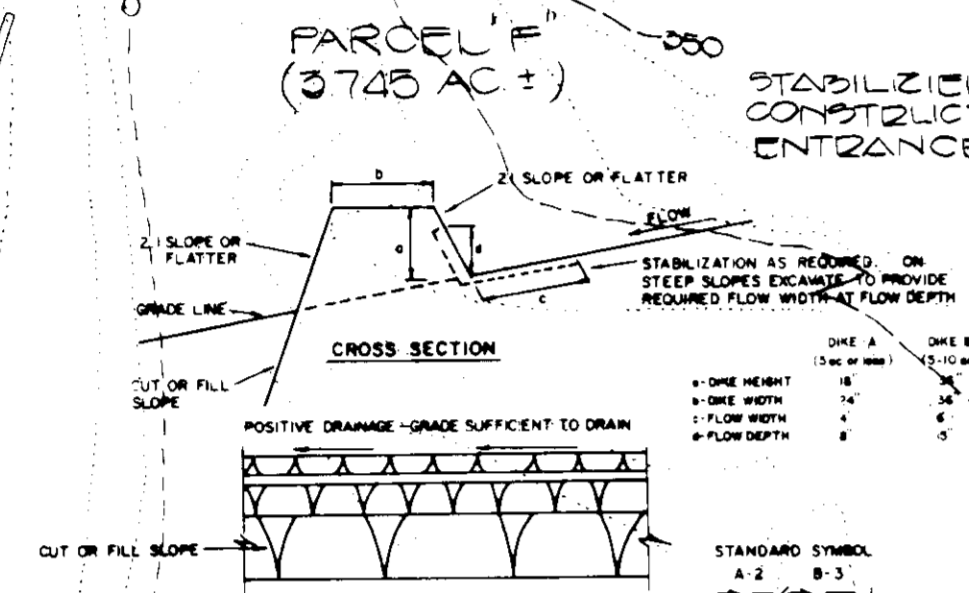
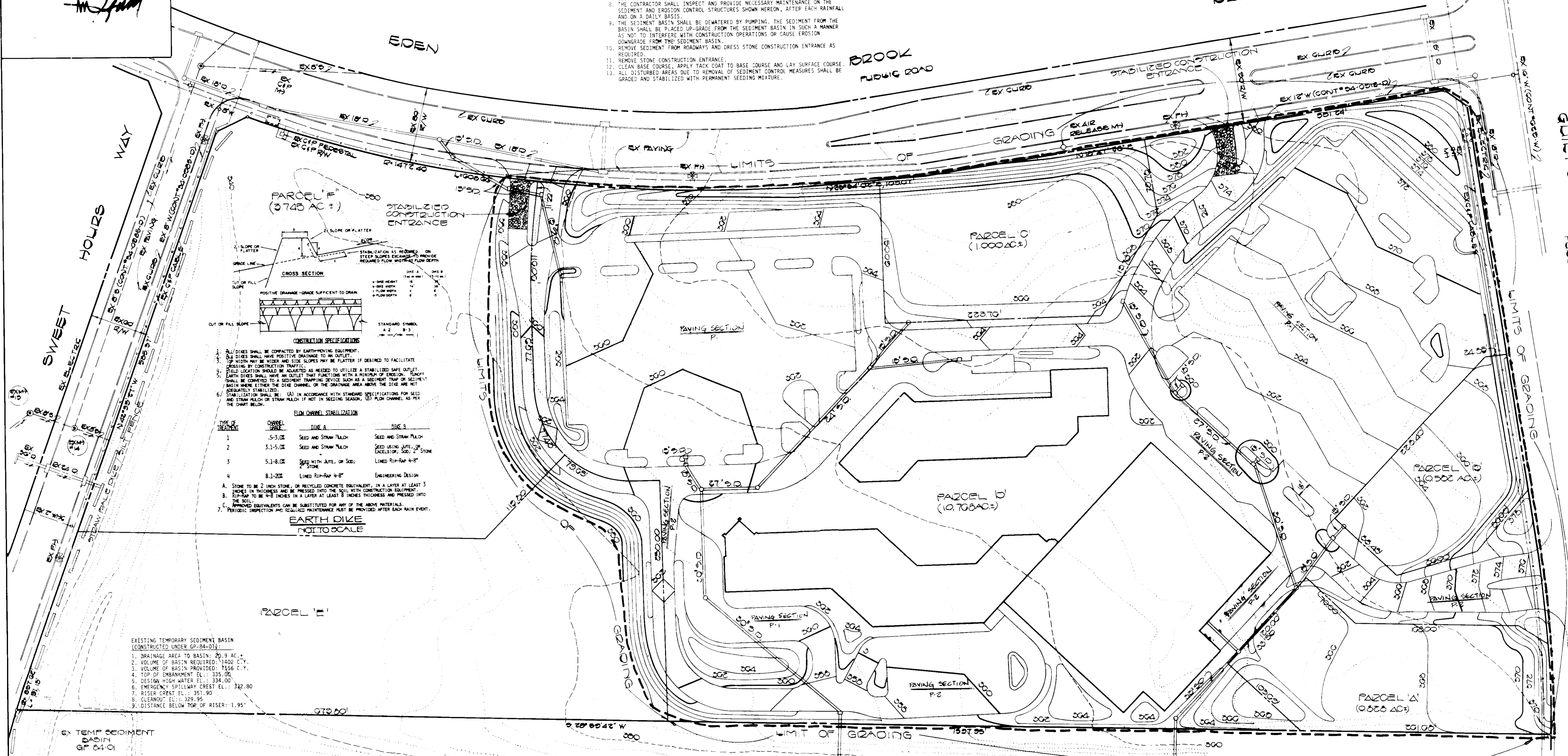
3/14/85	1	FOR H2O COMMENTS DATED 3/11/85
Rev. Date	Rev. No.	Revision Description
<b>COLUMBIA MARYLAND</b>		
OWNER AND DEVELOPER <b>HOWARD RESEARCH AND DEVELOPMENT CORP.</b>		
PROJECT AREA	VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 4	
PROJECT TITLE	6TH ELECTION DISTRICT HOWARD COUNTY MD KINGS CONTRIVANCE VILLAGE CENTER STORMDRAIN PROFILES	
Des. By	B. D. BURTON	Scale AS SHOWN
Drawn By	W. K. FRALIC	Date MARCH 4, 1985
Checked By	R. B. CARTER	Approved
Dwg. No.	7	OF 10
C.C.F. No.		



5-15-85  
M. L. Fisher

- CONSTRUCTION SEQUENCE
- OBTAIN GRADING PERMIT.
  - INSPECT EXISTING SEDIMENT BASIN, EXISTING EARTH DIKE AND EXISTING SILT FENCE/STRAW BALE DIKE. MAKE ANY NECESSARY REPAIRS OR MAINTENANCE TO THE BASIN PRIOR TO BEGINNING ANY WORK SHOWN HEREON. (EXISTING SEDIMENT CONTROL MEASURES CONSTRUCTED UNDER GP-84-01)
  - CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES WHERE SHOWN ON PLAN.
  - GRADE SITE TO SUBGRADE. STOCKPILE ANY EXCESS MATERIAL ON PARCELS 'E' AND 'F'.
  - CONSTRUCT STORM DRAIN SYSTEM AND ON-SITE UTILITIES. WHEN CONSTRUCTING "F" FALL SYSTEMS MH-2 TO S-1 AND 1-7 TO S-2, THE CONTRACTOR SHALL PROVIDE SILT FENCE/STRAW BALE DIKE AT THE END OF THE EXCAVATION TRENCH AT THE CONCLUSION OF EACH DAY'S WORK.
  - BEGIN BUILDING CONSTRUCTION. CONSTRUCT CURB AND GUTTER AND INSTALL BASE COURSE.
  - SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE CLEANOUT ELEVATION HAS BEEN REACHED.
  - 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.
  - THE SEDIMENT BASIN SHALL BE DETERMINED BY PUMPING THE SEDIMENT FROM THE BASIN SHALL BE PLACED UP-GRADE FROM THE SEDIMENT BASIN IN SUCH A MANNER AS NOT TO INTERFERE WITH CONSTRUCTION OPERATIONS OR CAUSE EROSION DOWN-GRAD FROM THE SEDIMENT BASIN.
  - REMOVE SEDIMENT FROM ROADWAYS AND DRESS STONE CONSTRUCTION ENTRANCE AS REQUIRED.
  - REMOVE STONE CONSTRUCTION ENTRANCE.
  - CLEAN BASE COURSE. APPLY TRACK COAT TO BASE COURSE AND LAY SURFACE COURSE.
  - ALL DISTURBED AREAS DUE TO REMOVAL OF SEDIMENT CONTROL MEASURES SHALL BE GRADED AND STABILIZED WITH PERMANENT SEEDING MATURE.

PAVING LEGEND  
 P1 PAVING SECTION  
 P2 PAVING SECTION



- CONSTRUCTION SPECIFICATIONS
- ALL DIKES SHALL BE COMPACTED BY EARTHMOVING EQUIPMENT.
  - DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
  - TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE PASSAGE BY CONSTRUCTION TRAFFIC.
  - FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
  - SEEDING SHALL BE DONE IMMEDIATELY AFTER CONSTRUCTION OF THE DIKE. SEEDING SHALL BE COMPLETED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASKIN WHERE EITHER THE DIKE CHANNEL, OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
  - STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON; (B) PLUM CHANNEL AS PER THE CHART BELOW.
- | TYPE OF TREATMENT | CHANNEL SIZE | DIKE A                         | DIKE B                                       |
|-------------------|--------------|--------------------------------|--|
| 1                 | 5-3.0E       | SEED AND STRAW MULCH           | SEED AND STRAW MULCH                         |
| 2                 | 3.1-5.0E     | SEED AND STRAW MULCH           | SEED USING JETTS, UP TO EXCESSION 500' STONE |
| 3                 | 5.1-8.0E     | SEED WITH JETTS, OR SOIL STONE | LINED RIP-RAP 4'-8"                          |
| 4                 | 8.1-20E      | LINED RIP-RAP 4'-8"            | ENGINEERING DESIGN                           |
- A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.  
 B. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.  
 C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.  
 7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH MAIN EVENT.
- EARTH DIKE NOT TO SCALE

- EXISTING TEMPORARY SEDIMENT BASIN (CONSTRUCTED UNDER GP-84-01):
- DRAINAGE AREA TO BASIN: 20.9 AC. +
  - VOLUME OF BASIN REQUIRED: 1402 C.Y.
  - VOLUME OF BASIN PROVIDED: 7556 C.Y.
  - TOP OF EMBANKMENT E.L.: 335.00
  - DESIGN HIGH WATER E.L.: 334.00
  - EMERGENCY SPILLWAY CREST E.L.: 332.90
  - RISER CREST E.L.: 351.90
  - CLEANOUT E.L.: 329.95
  - DISTANCE BELOW TOP OF RISER: 1.95'

- SITE ANALYSIS:
- TOTAL AREA OF SITE: 10.923 AC. +
  - TOTAL AREA TO BE DISTURBED: 13.2 AC. +
  - TOTAL IMPERVIOUS AREA: 9.3 AC. +
  - TOTAL AREA TO BE REVEGETATED: 3.9 AC. +

FISHER, COLLINS & CARTER, INC.  
 CIVIL ENGINEERS & LAND SURVEYORS  
 8388 COURT AVE.  
 ELLICOTT CITY, MD. 21043  
 (301) 461-2855

ENGINEER'S CERTIFICATE  
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON THE PERSONAL OBSERVATION OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Signature: *Charles J. Carter*  
 DATE: 3/15/85

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.

Signature: *John H. Holt*  
 DATE: 3-15-85

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
 Signature: *John M. Wilson*  
 DATE: 7/10/85  
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 APPROVED:  
 Signature: *Stephen L. Huber*  
 DATE: 7/10/85  
 DISTRICT OFFICER  
 HOWARD SOIL CONSERVATION DISTRICT

APPROVED: OFFICE OF PLANNING AND ZONING  
 Signature: *William G. Hampe*  
 DATE: 7-17-85  
 PLANNING DIRECTOR

Signature: *William H. Hines*  
 DATE: 7-16-85  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS.  
 Signature: *William H. Hines*  
 DATE: 7/16/85  
 HEALTH OFFICER

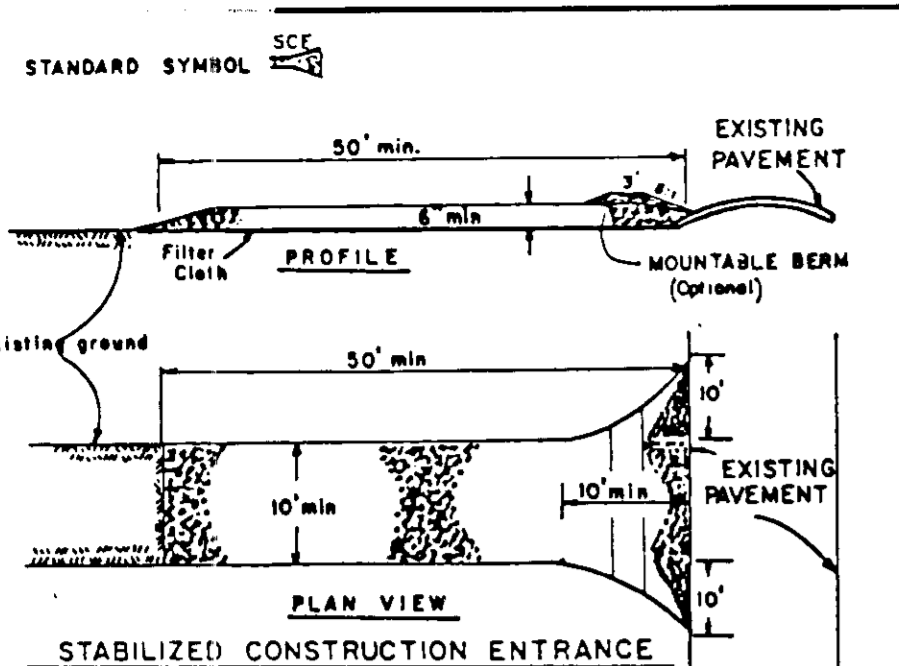
APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER AND SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.  
 Signature: *William H. Hines*  
 DATE: 7-16-85  
 DIRECTOR, PUBLIC WORKS

Signature: *William H. Hines*  
 DATE: 7-16-85  
 CHIEF, BUREAU OF ENGINEERING

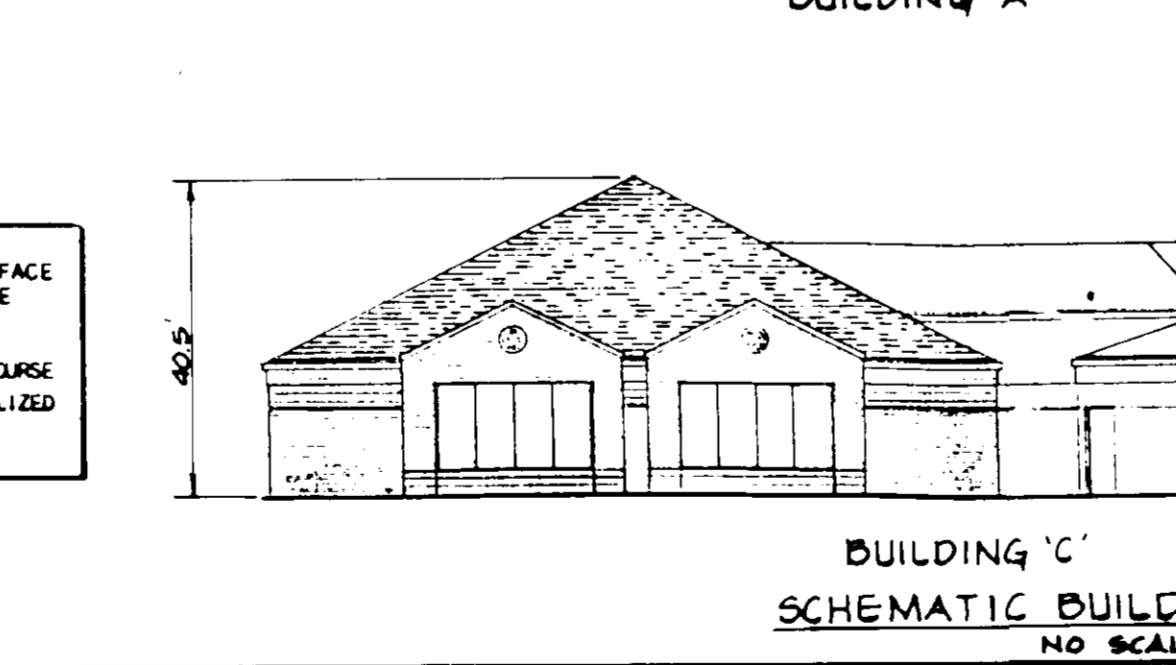
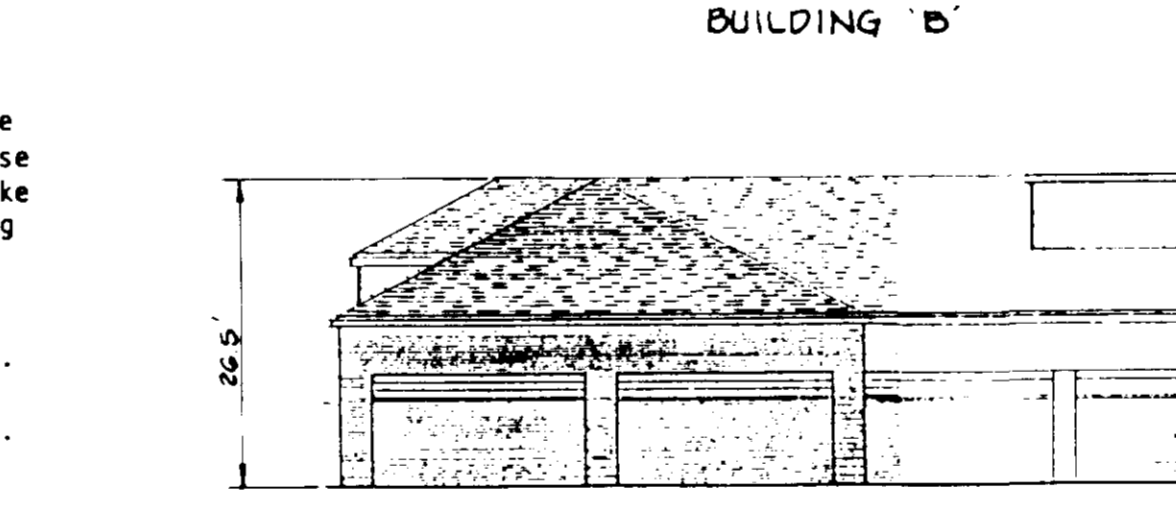
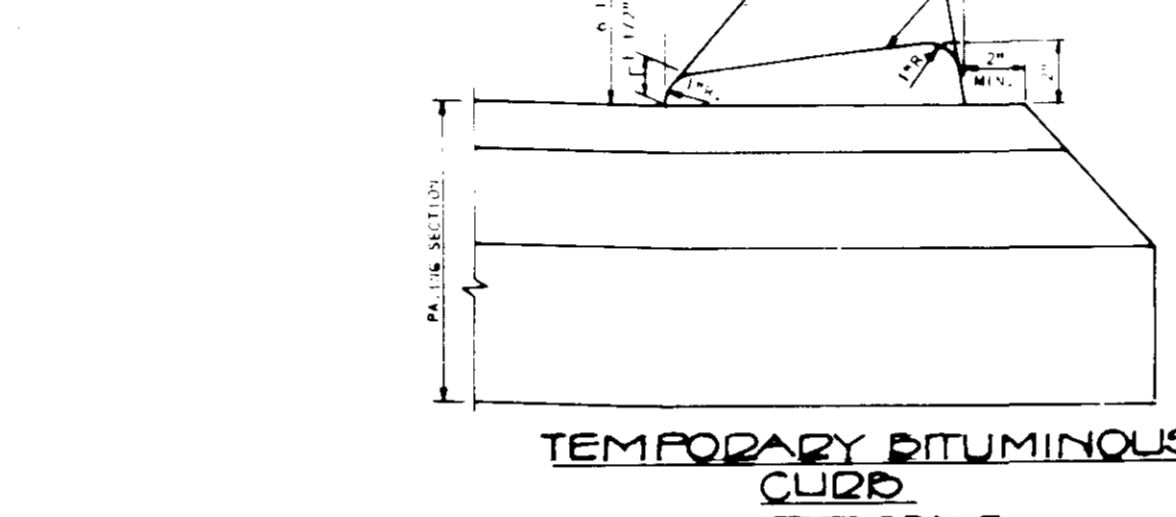
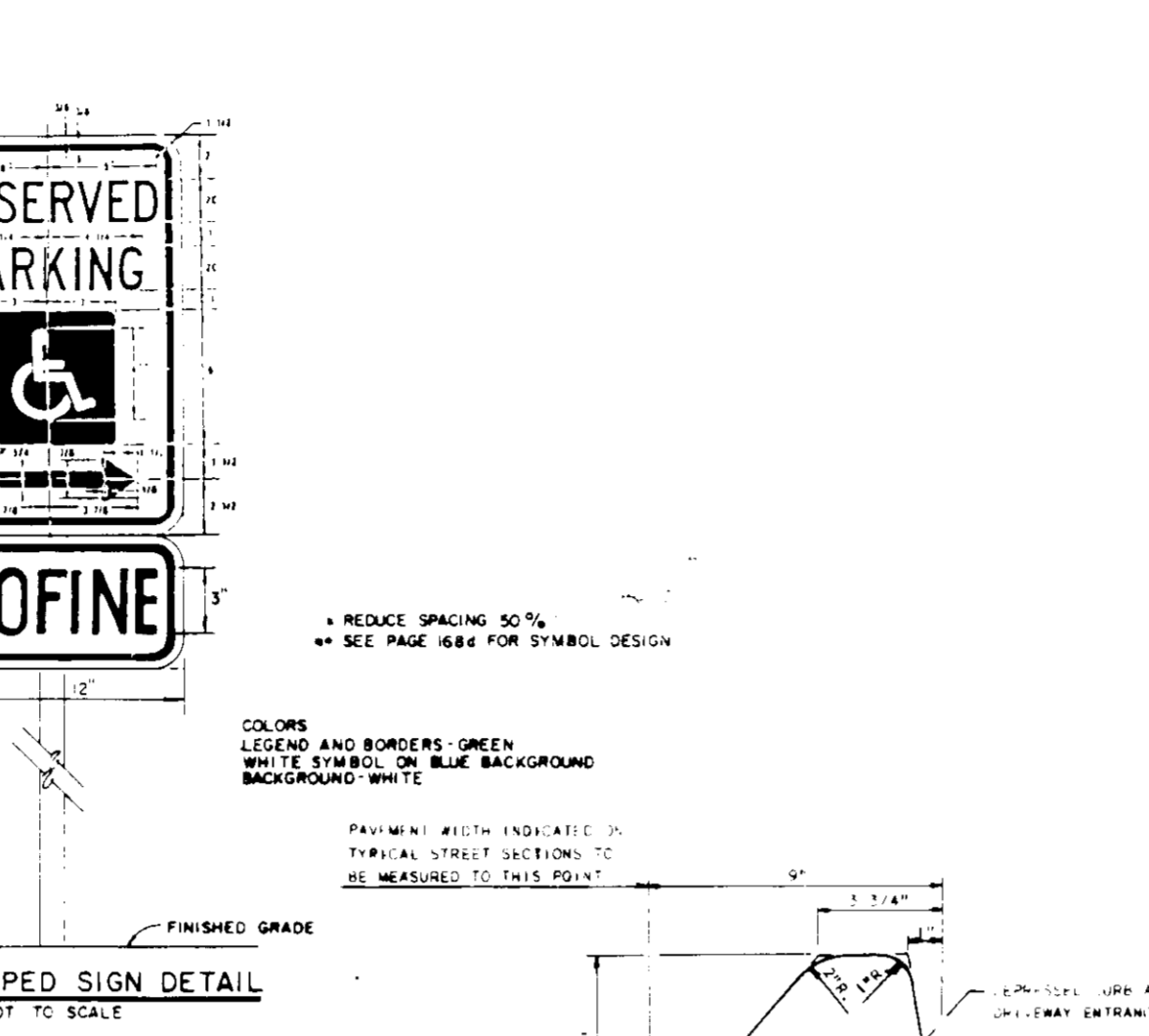
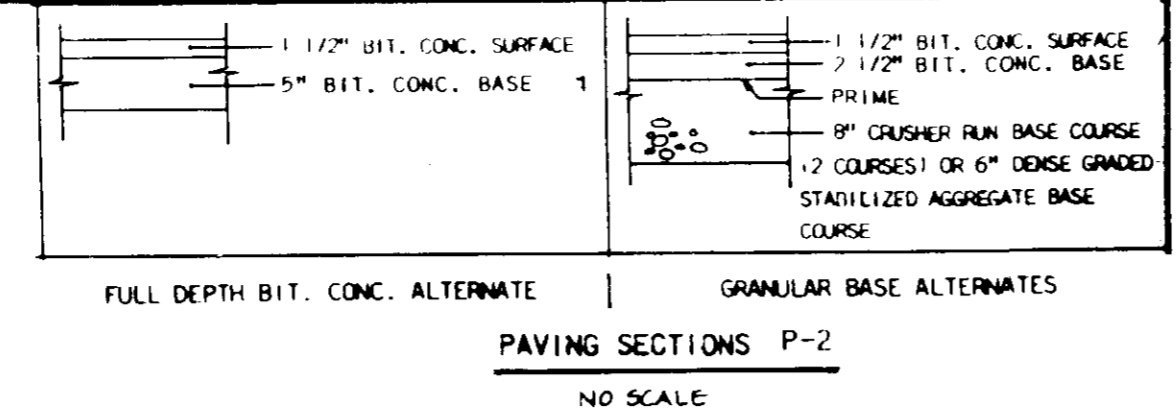
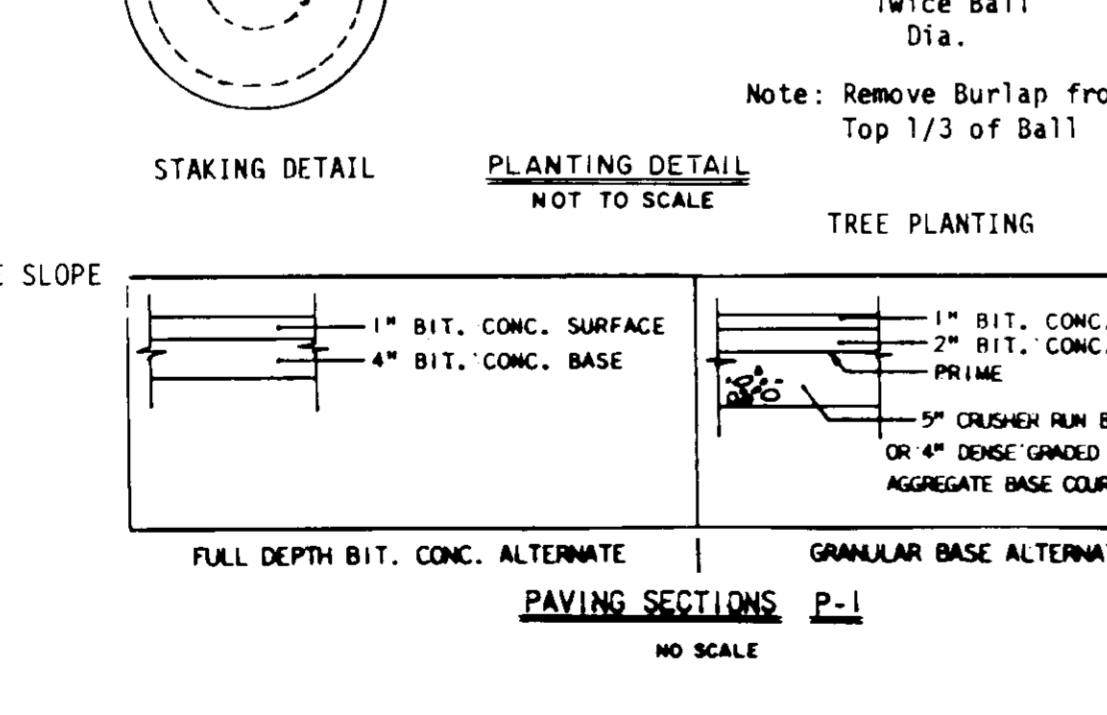
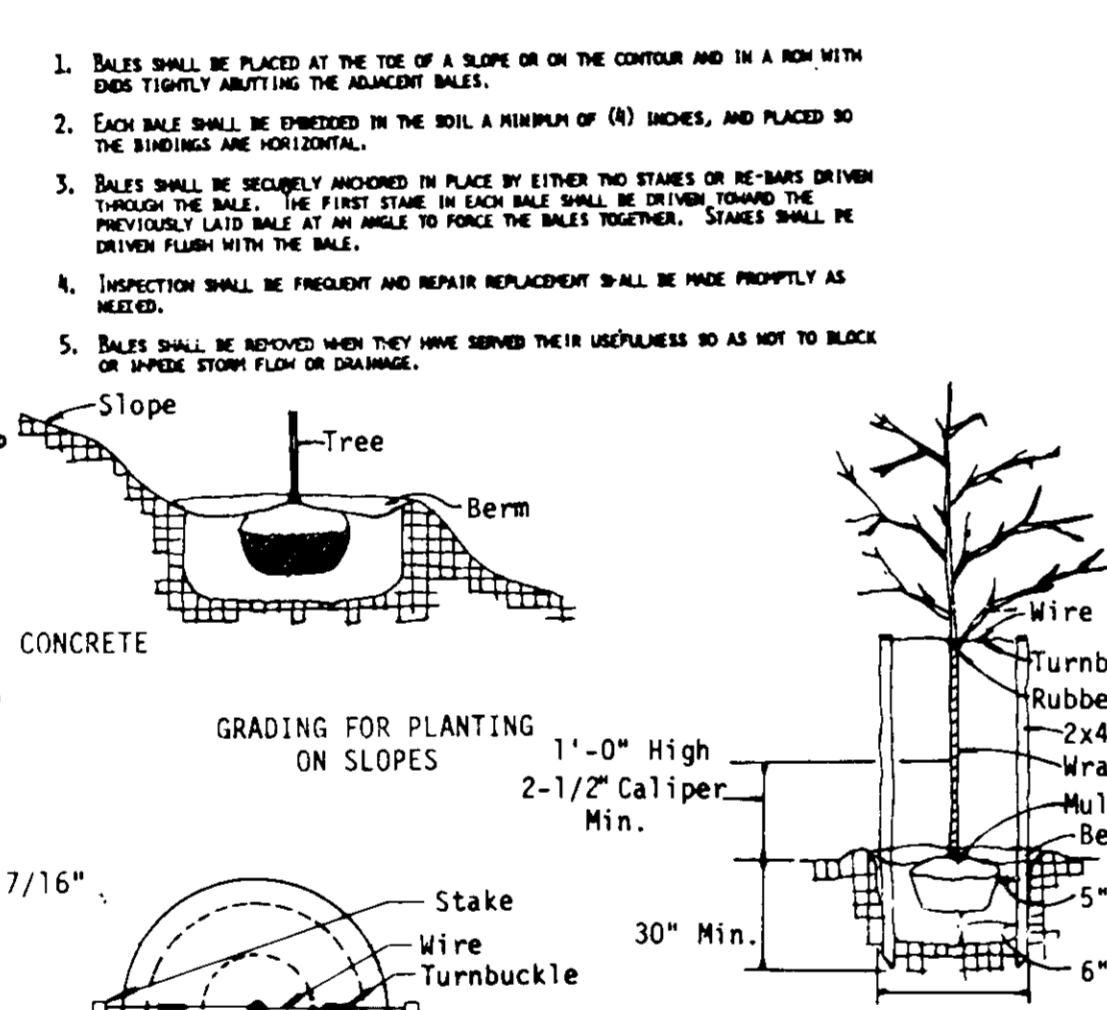
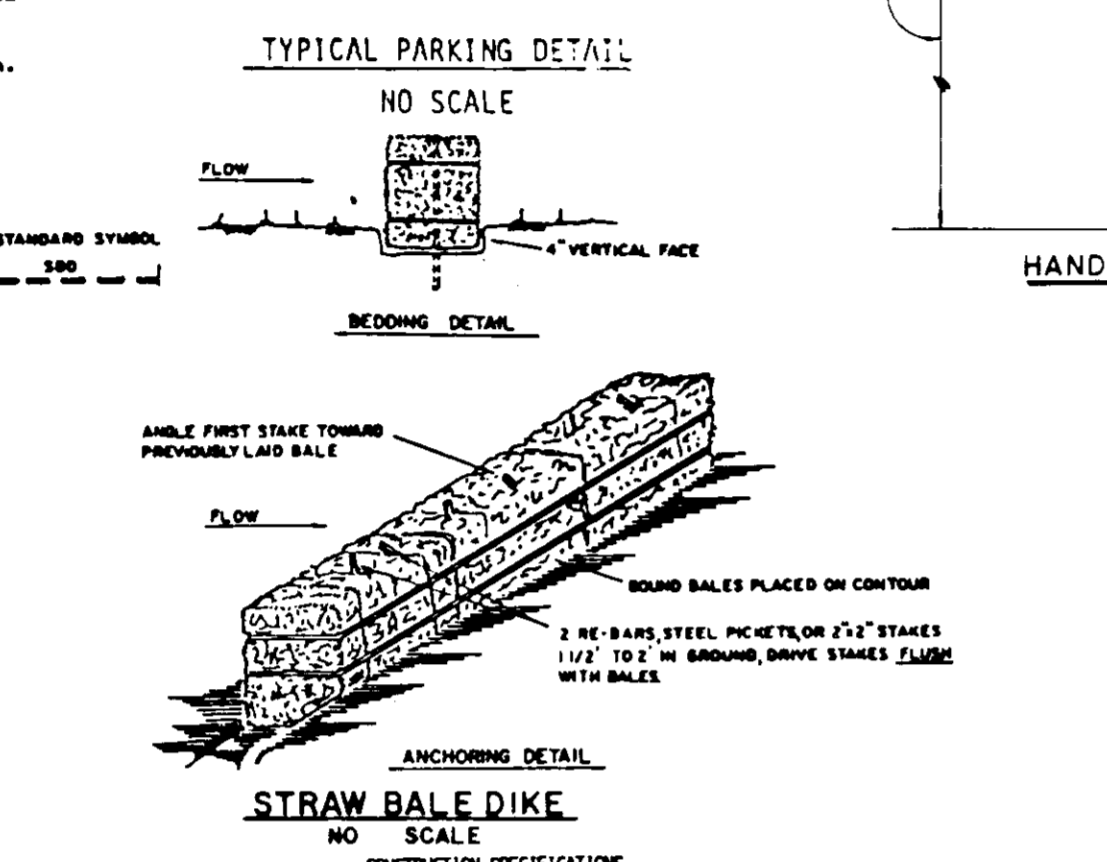
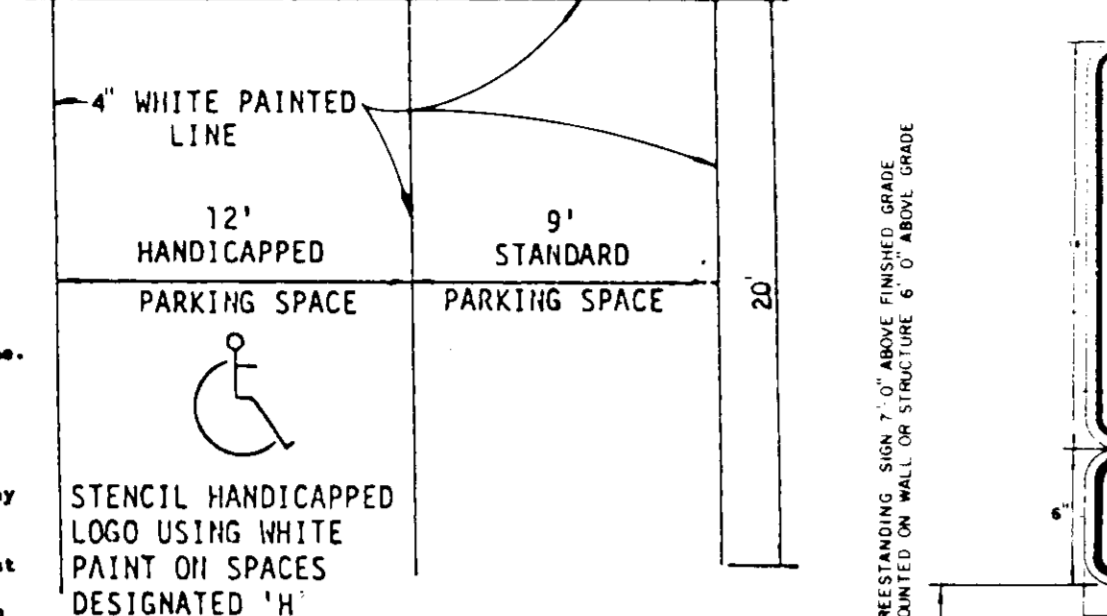
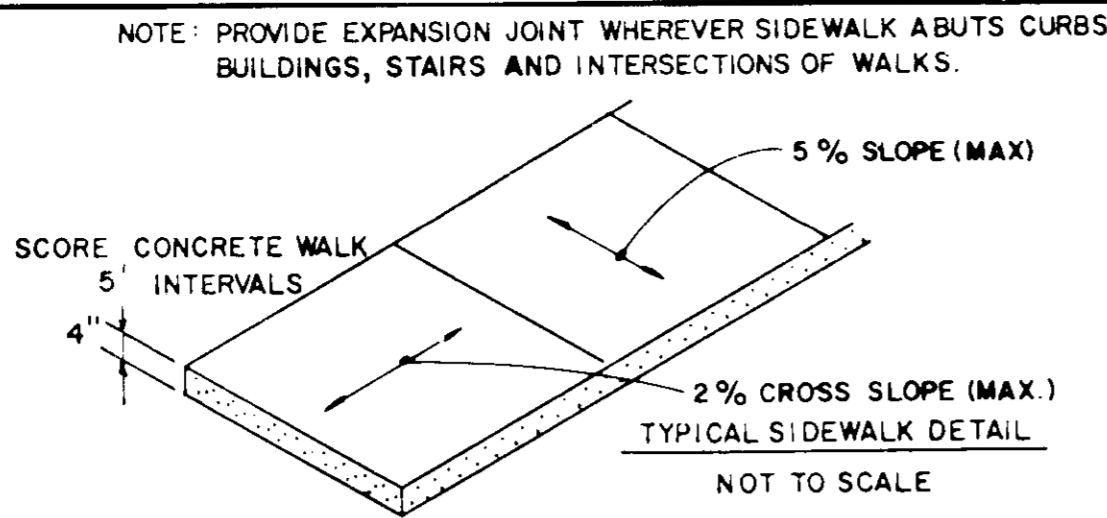
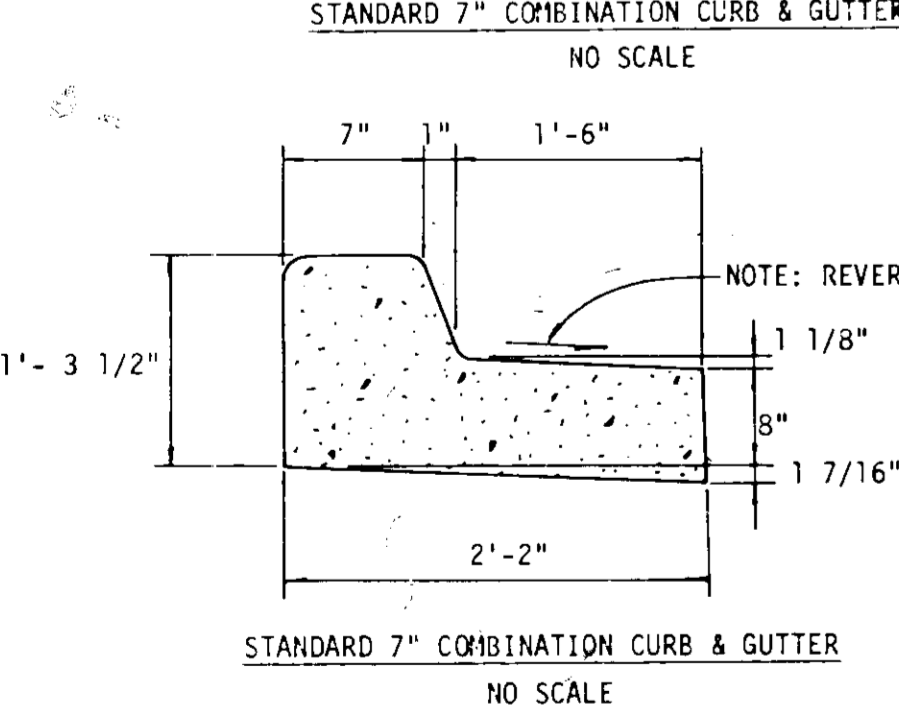
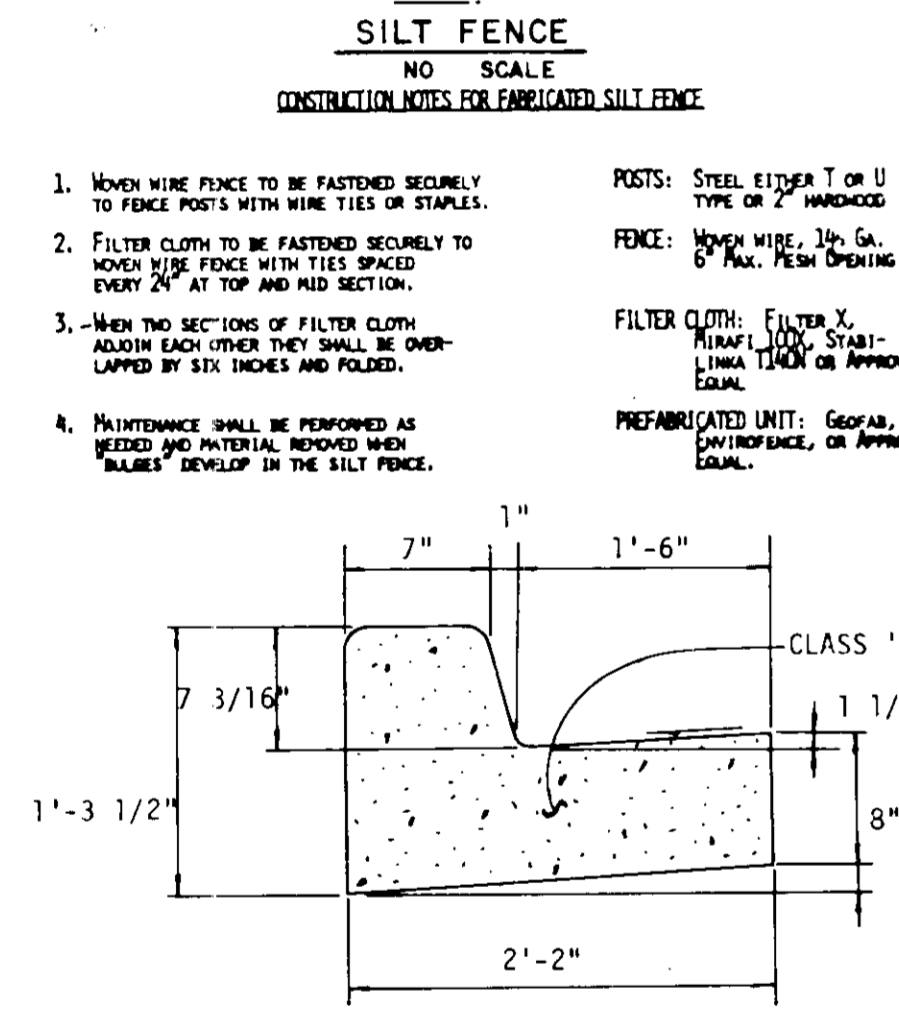
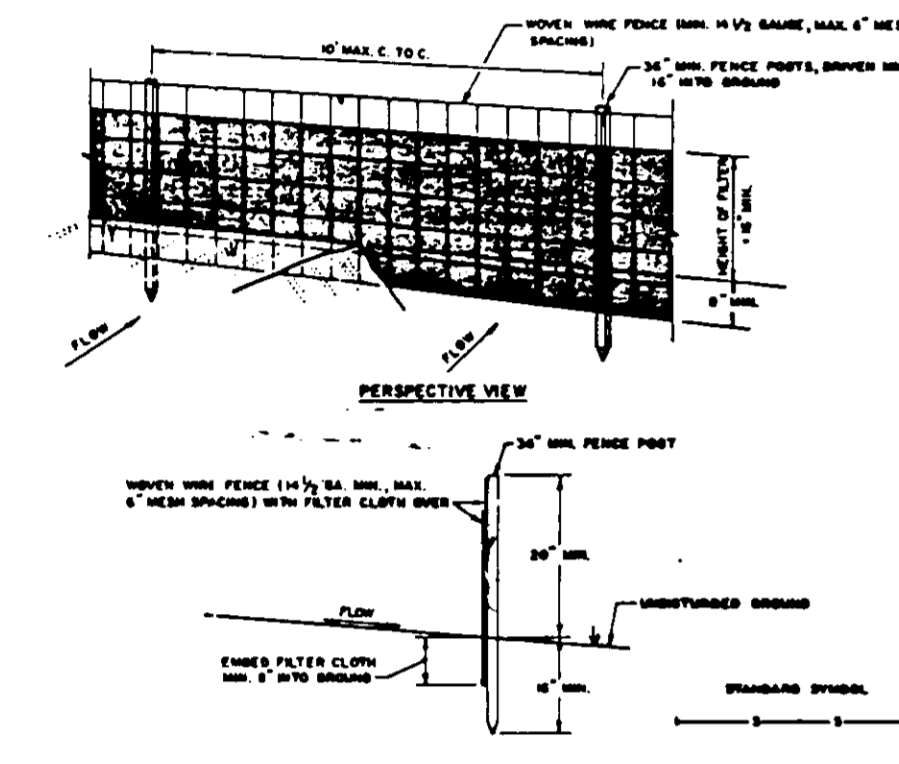
SUBDIVISION NAME	SECTION/AREA	PARCEL No.
VILLAGE OF KINGS CONTRIVANCE	2 / 4	PAR. 'D'
PLAT No. G278	BLOCK No. 7	ZONE N7Y COMM.
TAX / ZONE MAP 42	ELEC. DIST. 6TH	CENSUS TR. G002
WATER CODE E-10	SEWER CODE G000000	

3/14/85	1	PER H20 COMMENTS DATED 3/11/85
Rev. Date	Rev. No.	Revision Description
<b>COLUMBIA</b> M A R Y L A N D		
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP.		
PROJECT AREA	VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 4	
PROJECT TITLE	6TH ELECTION DISTRICT HOWARD COUNTY MD. KING'S CONTRIVANCE VILLAGE CENTER SEDIMENT CONTROL PLAN	
Des. By	B.D. BURTON	Scale 1" = 50'
Drn. By	W.K. FRALIC	Date MARCH 4, 1985
Chk. By	R.B. CARTER	Approved
Dwg. No. 8 OF 10 C.C.F. No.		





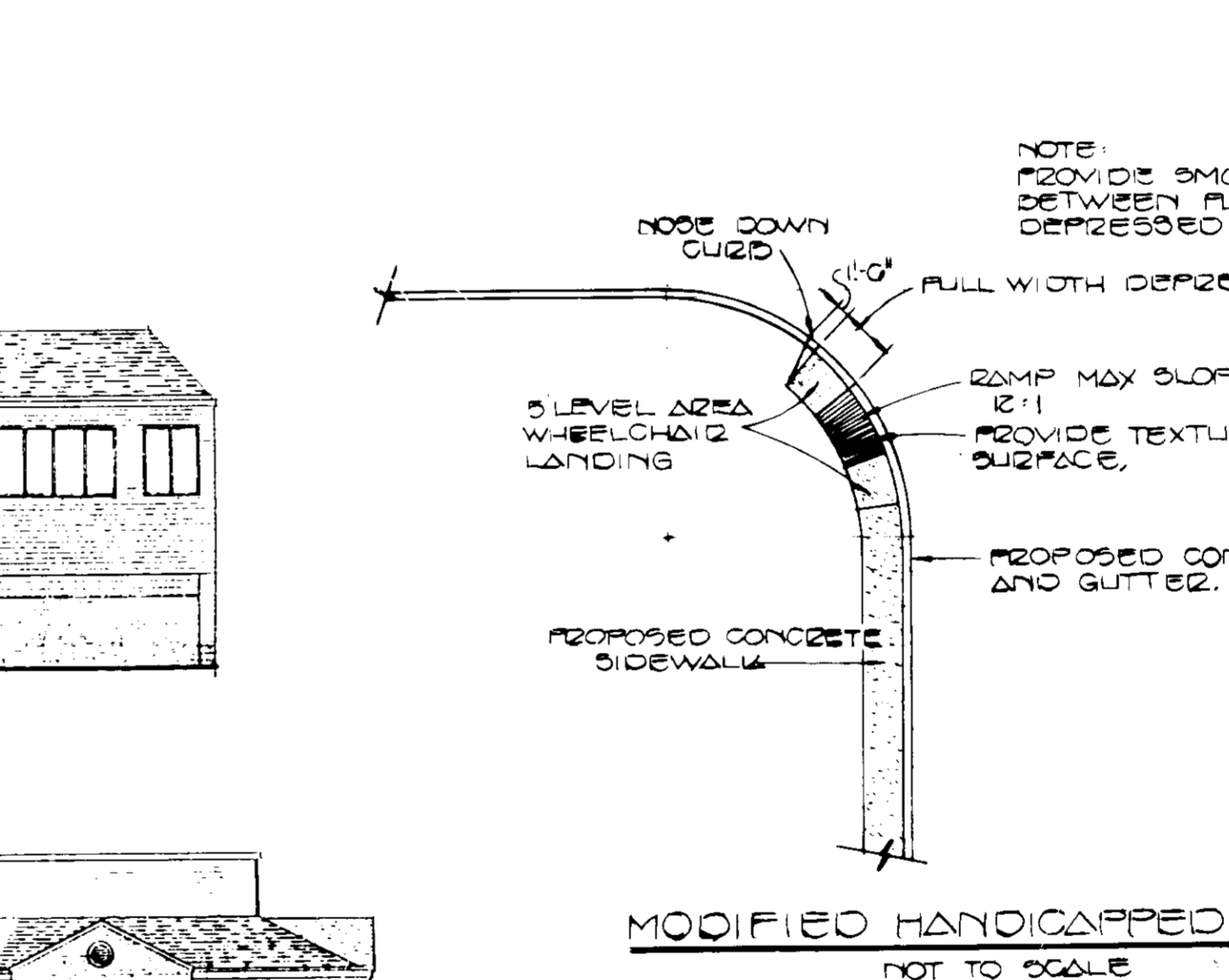
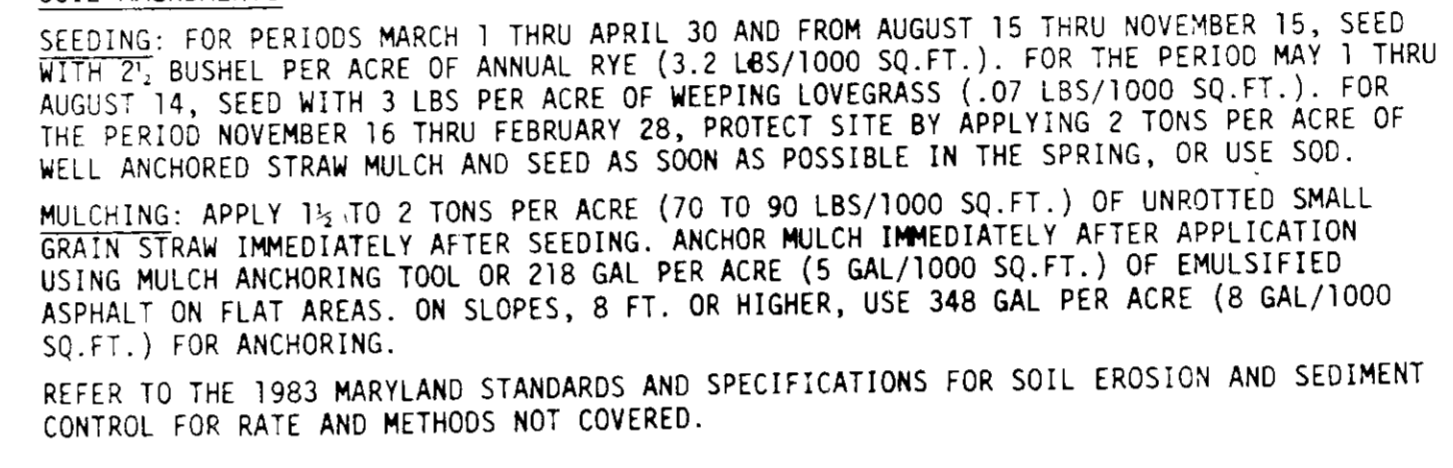
1. Stone Size - Use 2" stone, or recycled concrete equivalent.
2. Length - As required, but not less than 30 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter cloth will not be required on a single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrance shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measure used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing - Wheel shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.



**PERMANENT SEEDING NOTES:**  
 APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.  
**SEEDBED PREPARATION:** LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.  
**SOIL AMENDMENTS:** IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULE:  
 1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ.FT.).  
 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.

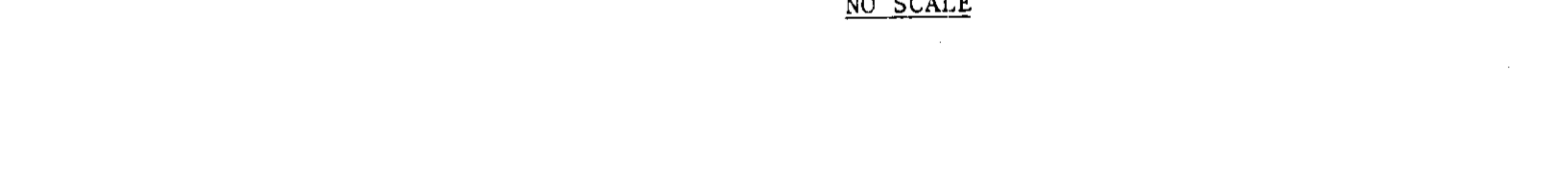
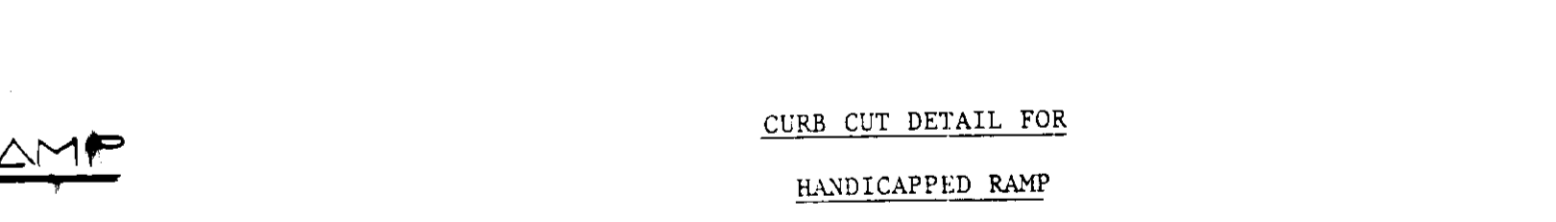
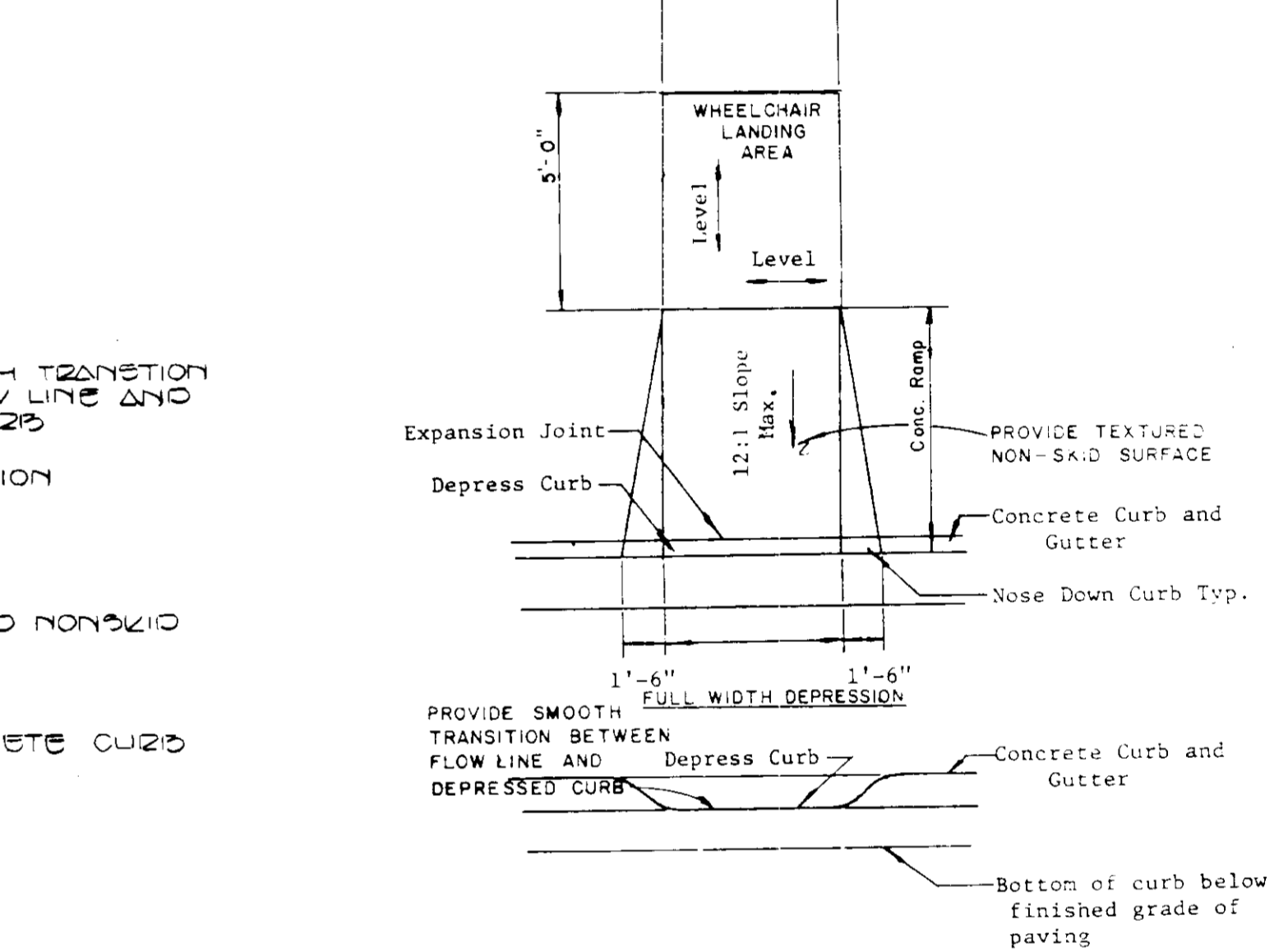
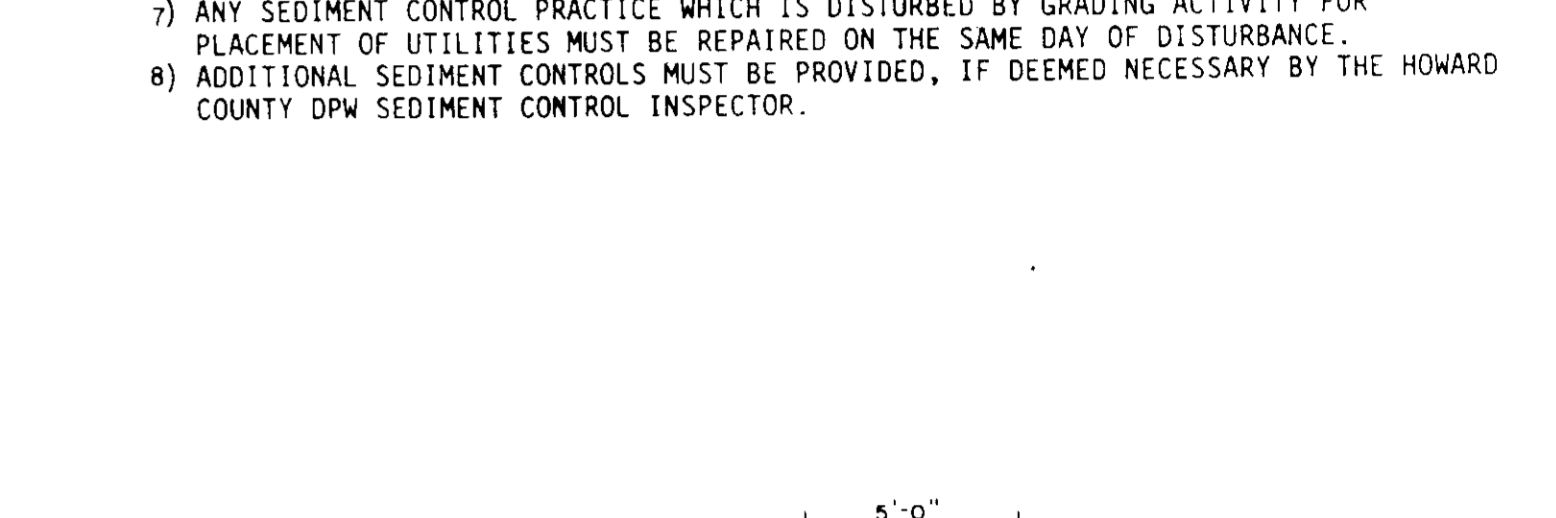
**SEEDING:** FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.  
**MULCHING:** APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 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.

**TEMPORARY SEEDING NOTES:**  
 APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.  
**SEEDBED 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 218 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.



**SEDIMENT CONTROL NOTES:**  
 1) A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (992-2437).  
 2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.  
 3) FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.  
 4) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC.51) SOD (SEC.54), TEMPORARY SEEDING (SEC.50) AND MULCHING (SEC.52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.  
 5) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.  
 6) SITE ANALYSIS:  
 TOTAL AREA OF SITE 13.2 ACRES  
 AREA DISTURBED 13.2 ACRES  
 AREA TO BE ROOFED OR PAVED 9.3 ACRES  
 AREA TO BE VEGETATIVELY STABILIZED 3.9 ACRES  
 TOTAL CUT 3.9 CU.YDS.  
 TOTAL FILL 3.9 CU.YDS.  
 OFFSITE WASTE/BORROW AREA LOCATION  
 7) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.  
 8) ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.

TOTAL AREA OF SITE	13.2	ACRES
AREA DISTURBED	13.2	ACRES
AREA TO BE ROOFED OR PAVED	9.3	ACRES
AREA TO BE VEGETATIVELY STABILIZED	3.9	ACRES
TOTAL CUT	3.9	CU.YDS.
TOTAL FILL	3.9	CU.YDS.



OWNER AND DEVELOPER:  
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
 10275 LITTLE PATUXENT PARKWAY  
 COLUMBIA, MARYLAND 21044

Rev. Date	Rev. No.	Revision Description
3/4/85	1	PER H2O COMMENTS DATE 3/11/85

COLUMBIA MARYLAND	
OWNER AND DEVELOPER HOWARD RESEARCH AND DEVELOPMENT CORP.	
PROJECT AREA	VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 4
PROJECT TITLE	KINGS CONTRIVANCE VILLAGE CENTER NOTES & DETAILS
Des. By B.D. BURTON	Scale AS SHOWN
Drn. By W.K. FRALIC	Date MARCH 4, 1985
Chk. By R.B. CARTER	Approved

**ENGINEER'S CERTIFICATE**  
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A FEASIBLE AND WORKABLE PLAN BASED ON MY PERSONAL AND FIELD SURVEY OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY DISTRICT.  
 FISHER, COLLINS & CARTER, INC.  
 CIVIL ENGINEERS & LAND SURVEYORS  
 8388 COURT AVE.  
 ELLICOTT CITY, MD. 21043  
 (301) 461-2855  
 Signature: *Charles J. Conner*  
 DATE: 3/15/85

**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: *John H. Naylor*  
 DATE: 3-15-85

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
 Signature: *John H. Naylor*  
 DATE: 7/16/85  
 U.S. SOIL CONSERVATION SERVICE  
 APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Signature: *Stephen L. Hudson*  
 DATE: 7/16/85  
 DISTRICT HOWARD SOIL CONSERVATION DISTRICT

APPROVED: OFFICE OF PLANNING AND ZONING  
 Signature: *John W. Wood*  
 DATE: 7-17-85  
 PLANNING DIRECTOR  
 APPROVED: DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
 Signature: *John W. Wood*  
 DATE: 7-16-85  
 APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS.  
 Signature: *John W. Wood*  
 DATE: 7/16/85

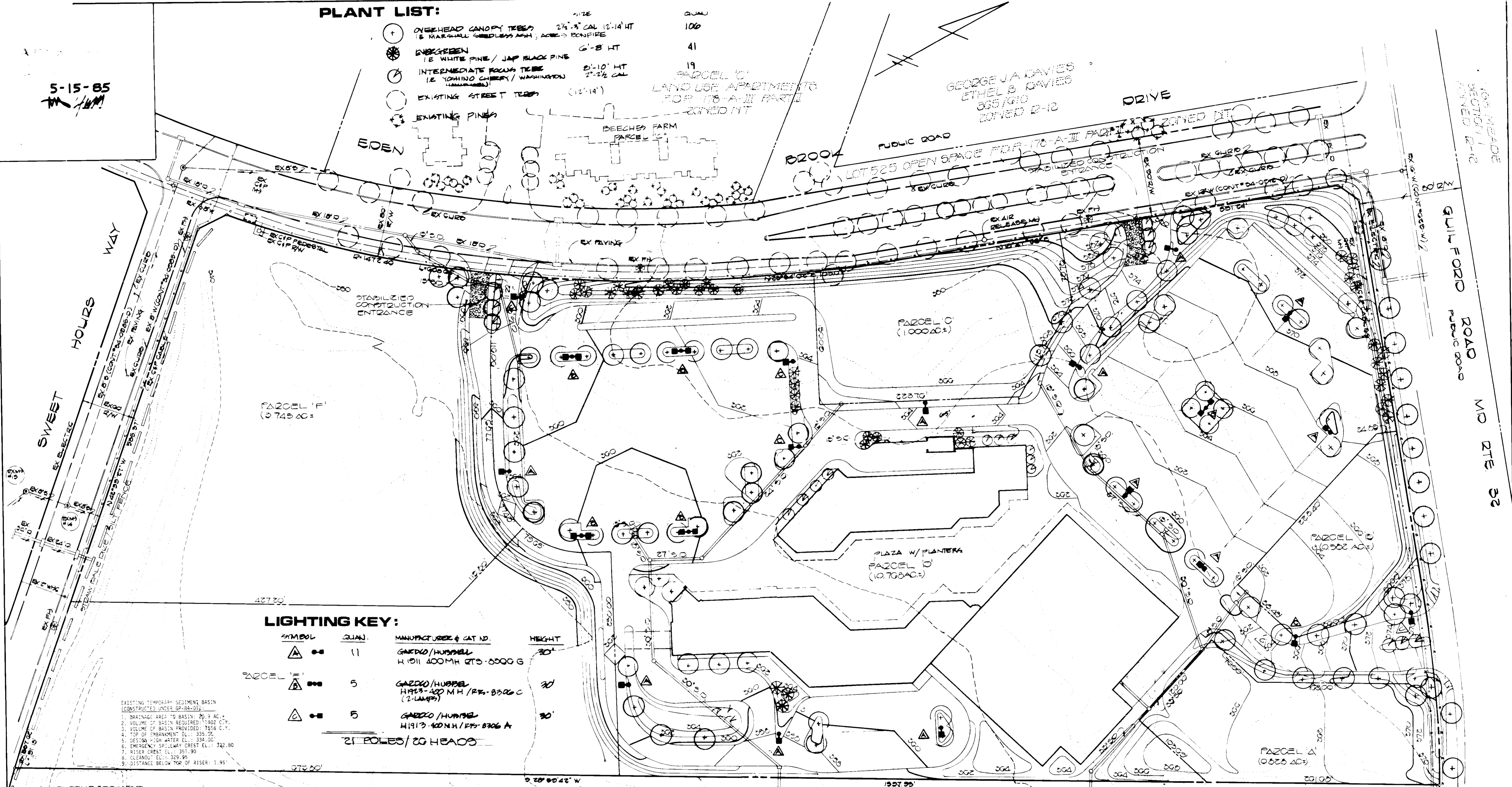
APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER AND SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.	Signature: <i>John W. Wood</i> DATE: 7-15-85
APPROVED: CHIEF, BUREAU OF ENGINEERING	Signature: <i>John W. Wood</i> DATE: 7-12-85
SUBDIVISION NAME: VILLAGE OF KINGS CONTRIVANCE	SECTION/AREA: 2 / 4
PLAT No. / BLOCK No. / ZONE: G210 / 7 / COMM	TAX / ZONE / ELEC. DIST. / CENSUS TR.: MAP 42 / 6TH / G020
WATER CODE: E 10	SEWER CODE: G00000



5-15-85

**PLANT LIST:**

- | SYMBOL | QUANTITY | MANUFACTURER & CAT. NO.  | HEIGHT                    |
|--------|----------|--|---------------------------|
| (+)    | 106      | OVERHEAD CANOPY TREES<br>(E. MARSHAL GLOBE PINE)                     | 2 1/2" CAL 12-14 HT       |
| (*)    | 41       | EVERGREEN<br>(E. WHITE PINE / JAP. BLACK PINE)                       | 6'-8' HT                  |
| (O)    | 19       | INTERMEDIATE PINE TREES<br>(E. YOHIMBO CHERRY / WASHINGTON HAWTHORN) | 2'-10" HT<br>2-2 1/2" CAL |
| (X)    |          | EXISTING STREET TREES  | (12-14')                  |
| (O)    |          | EXISTING PINES   |                           |



**LIGHTING KEY:**

SYMBOL	QUANTITY	MANUFACTURER & CAT. NO.	HEIGHT
(A)	11	GARDOL/HUBBELL H 1011 400MH 275-0000 G	20'
(B)	5	GARDOL/HUBBELL H1913-400 MH / RPS-0306 C (2-LAMP)	20'
(C)	5	GARDOL/HUBBELL H1913-400MH / RPS-0306 A	20'

21 POLES / 20 HEADS

EXISTING TEMPORARY SEDIMENT BASIN  
(CONSTRUCTED UNDER GP-84-01):  
 1. DRAINAGE AREA TO BASIN: 20.9 AC.  
 2. VOLUME OF BASIN REQUIRED: 1400 C.Y.  
 3. VOLUME OF BASIN PROVIDED: 1855 C.Y.  
 4. TOP OF EMBANKMENT ELEV.: 335.00  
 5. DESIGN HIGH WATER ELEV.: 334.00  
 6. EMERGENCY SPILLWAY CREST ELEV.: 332.00  
 7. RISER CREST ELEV.: 361.90  
 8. CLEANOUT ELEV.: 329.95  
 9. DISTANCE BELOW TOP OF RISER: 1.95'

**SITE ANALYSIS:**  
 1. TOTAL AREA OF SITE: 19.923 AC.  
 2. TOTAL AREA TO BE DISTURBED: 13.2 AC.  
 3. TOTAL IMPERVIOUS AREA: 9.3 AC.  
 4. TOTAL AREA TO BE REVEGETATED: 3.9 AC.

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERS & LAND SURVEYORS  
 8388 COURT AVE.  
 ELLICOTT CITY, MD. 21043  
 (301) 461-2855

**ENGINEER'S CERTIFICATE**  
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN CONFORMANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY ZONING DISTRICT.  
 Signature: *Charles J. Carter*  
 DATE: 3/15/85

**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: *John H. ...*  
 DATE: 3-15-85

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
 Signature: *John H. ...*  
 DATE: 7/10/85  
 U.S. SOIL CONSERVATION SERVICE  
 THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 APPROVED: *Stephen L. ...*  
 DATE: 7/10/85  
 HOWARD SOIL CONSERVATION DISTRICT

APPROVED: OFFICE OF PLANNING AND ZONING  
 Signature: *John ...*  
 DATE: 7-17-85  
 PLANNING DIRECTOR  
 Signature: *John ...*  
 DATE: 7-16-85  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
 APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS.  
 Signature: *John ...*  
 DATE: 7/16/85

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER AND SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.  
 Signature: *John ...*  
 DATE: 7-15-85  
 DIRECTOR, PUBLIC WORKS  
 Signature: *John ...*  
 DATE: 7-12-85  
 CHIEF, BUREAU OF ENGINEERING  

SUBDIVISION NAME	SECTION/AREA	PARCEL No.
VILLAGE OF KINGS CONTRIVANCE	2 / 4	
PLAT No./C.F. BLOCK No.	ZONE MAP	ELEC. DIST. CENSUS TR.
6270 / 7	42	6TH G002
WATER CODE	SEWER CODE	
E-10	G000000	

Rev. Date	Rev. No.	Revision Description
5-17-85	3	ADJUSTED QUANTITIES
4-27-85	2	LIGHTING DISTRIBUTION QUANTITIES
3-14-85	1	PER H2D COMMENTS DATED 3/11/85

**COLUMBIA**  
 MARYLAND  
 OWNER AND DEVELOPER  
 HOWARD RESEARCH AND DEVELOPMENT CORP.  
 PROJECT AREA: VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 4 PARCEL D  
 PROJECT TITLE: KING'S CONTRIVANCE VILLAGE CENTER LIGHTING AND LANDSCAPE PLAN  
 Des. By: B. D. BURTON Scale: 1" = 50' Dwg. No. 10 OF 10  
 Dra. By: W. K. FRALIC Date: MARCH 4, 1985 C.C.F. No.  
 Chk. By: R. B. CARTER Approved