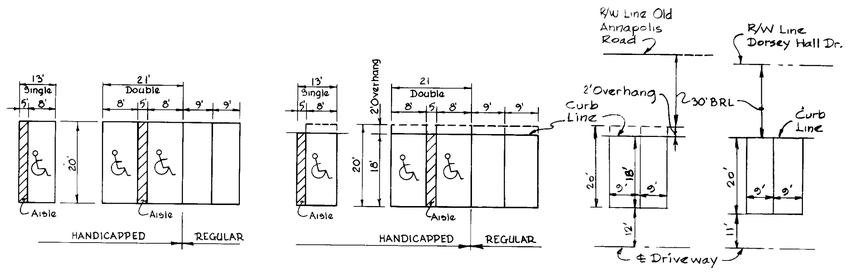


TYPICAL PARKING DETAILS

NO SCALE

SITE ANALYSIS

1 PRESENT ZONING. SHOPPING CENTER (S.C)AND PLANNED OFFICE RESEARCH (P O.R.).

2 TOTAL AREA OF SITE: - - - 18.538 ACRES
- A. S C. = 10.000 ACRES
- B P O R. = 8.538 ACRES

3 PARKING DATA:

A. INTENDED USE OF STRUCTURES: SUPERMARKET, RETAIL STORES AND OFFICES.

B. TOTAL AREA FOR BUSINESS PURPOSES: 82,200 S.F.
- 1 SUPERMARKET - 36,000 S.F
- 2. RETAIL - 21,800 S.F.
- 3. OFFICES - 24,400 S.F.

C. TOTAL NUMBER OF SPACES REQUIRED: 447 SPACES
- 1 1 SPACE/150 S.F. SUPERMARKET AREA 36,000/150 = 240 SPACES
- 2 1 SPACE/200 S.F. RETAIL AREA -- 21,800/200 = 109 SPACES
- 3. 1 SPACE/250 S F. OFFICE AREA — 24,400/250 = 98 SPACES
- 4. HANDICAPPED SPACES REQUIRED = 13 SPACES

D TOTAL NUMBER OF SPACES PROVIDED: 497 SPACES
- 1 REGULAR SPACES = 484
- 2. HANDICAPPED SPACES = 13

4. LOT COVERAGE·

A. S.C.
- 1. MAXIMUM ALLOWED = 30%.
- 2. PROPOSED = 1.43 AC./10.0 AC. = 14.3%.

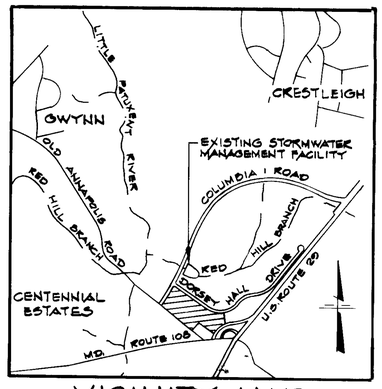
B P.O.R.
- 1. MAXIMUM ALLOWED = 35%
- 2 PROPOSED = 0 57 AC/8.53 AC. = 6 7%.

5 OPEN SPACE:

A. S.C. AND P O.R
- 1 MINIMUM ALLOWED = 20%
- 2 PROPOSED.
  - a S.C. - 2.89 AC/10.0 AC. = 28.9%.
  - b P O.R. - 6.37 AC/ 8.53 AC.= 74.7%.

6 LANDSCAPED ISLANDS:

A S.C. AND P O.R.
- 1 MINIMUM ALLOWED = 5%
- 2. PROPOSED
  - a S.C. - 0.26 AC/2.63 AC. = 9.9%.
  - b P O R - 0 02 AC/0 37 AC. = 5.4%

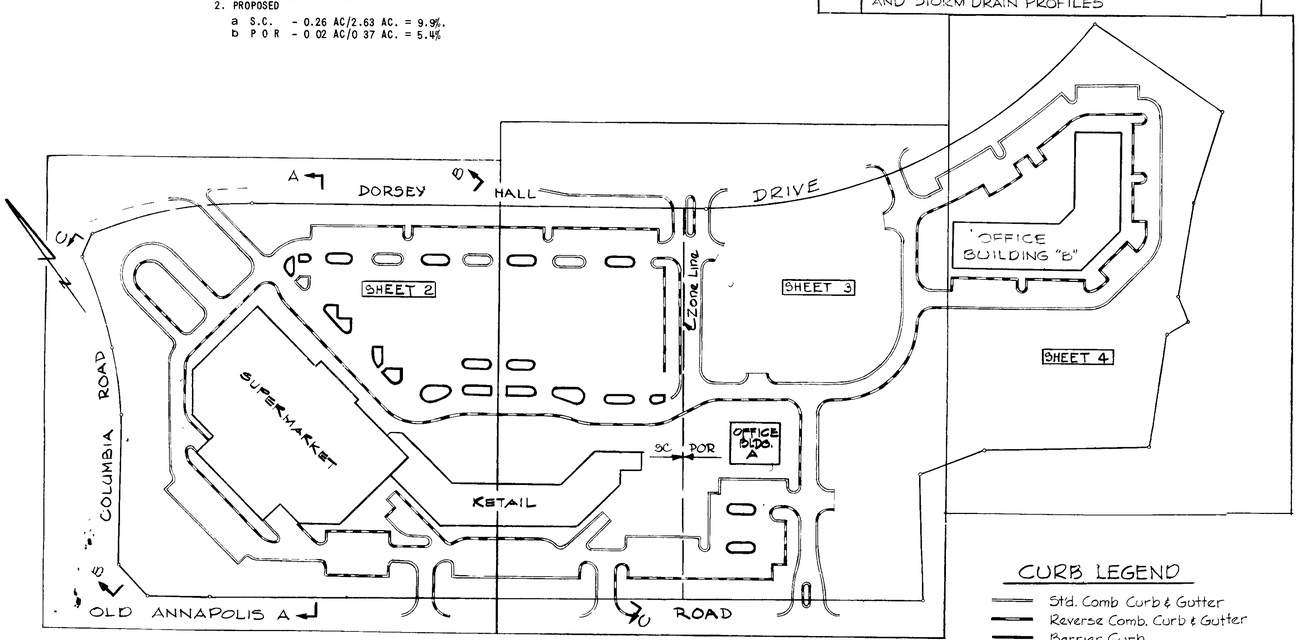


VICINITY MAP

SCALE: 1" = 2000'

SHEET INDEX

NO.	DESCRIPTION
1	TITLE SHEET
2	GRADING PLAN
3	GRADING PLAN
4	GRADING PLAN
5	PARKING LOT STAKEOUT DETAILS
6	℄ ROAD STAKEOUT PLAN
7	ROAD DETAILS
8	DRAINAGE AREA MAP
9	STORM DRAIN PROFILES
10	STORM DRAIN PROFILES
11	SEDIMENT CONTROL PLAN
12	SEDIMENT CONTROL DETAILS
13	LIGHTING AND LANDSCAPE PLAN
14	CROSS-SECTIONS, DETAILS, WATER, SEWER AND STORM DRAIN PROFILES



PLAN OF VILLAGE CENTER

SCALE: 1" = 100'

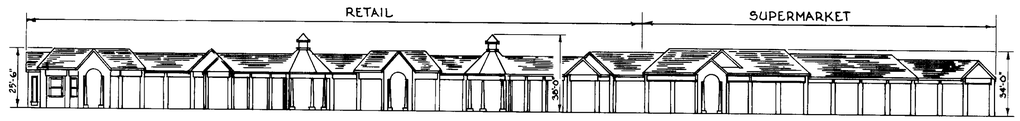
CURB LEGEND
- Std. Comb Curb & Gutter
- Reverse Comb. Curb & Gutter
- Barrier Curb

GENERAL NOTES

1. RECORDING REFERENCES ARE PLATS 7326 AND 7327.
2. SEE ARCHITECTURAL PLANS FOR DETAILS OF PROPOSED BUILDINGS.
3. ALL SITE WORK CONSTRUCTION TO BE DONE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL - VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
4. PUBLIC WATER AND PUBLIC SEWER TO BE UTILIZED.
5. ANY DAMAGE TO PUBLIC RIGHT-OF-WAY OR PAVING MUST BE CORRECTED AT THE DEVELOPERS EXPENSE.
6. GRADES HAVE BEEN ESTABLISHED TO INSURE POSITIVE DRAINAGE.
7. SIDEWALKS SHALL BE SCORED OR OTHERWISE TEXTURED TO INDICATE TO BLIND PERSONS THE LOCATION OF DOORS AT BUILDINGS.
8. ONE HANDICAPPED PARKING SIGN SHALL BE PLACED AT EACH HANDICAPPED PARKING SPACE IN ACCORDANCE WITH REQUIREMENTS OF THE MARYLAND BUILDING CODE.
9. A STORMWATER MANAGEMENT FACILITY HAS BEEN CONSTRUCTED OFF-SITE AT COLUMBIA ROAD UNDER F-85-16. (SEE VICINITY MAP.) TO SERVE THIS PARCEL.
10. ALL EXISTING FACILITIES ADJACENT TO THIS SITE WERE CONSTRUCTED UNDER THE FOLLOWING: F85-16, F86-192, F87-143, 44-0900, 24-1281-D AND 24-1465-D.

LEGEND

--380---	EXISTING CONTOUR (2' INTERVAL)
—380—	PROPOSED CONTOUR (1' INTERVAL)
FF 000 0	PROPOSED FINISHED FLOOR ELEVATION
380x0	PROPOSED SPOT ELEVATION
TC/BC	TOP CURB/BOTTOM CURB
	CONCRETE WALK
	EXISTING CURB (TO BE REMOVED)
	NUMBER OF STANDARD PARKING SPACES (9' WIDE)
	BUILDING ENTRANCE
	TRAFFIC FLOW
	"RESERVED FOR HANDICAPPED PERSONS" (INDICATED)



PROFILE - RETAIL & SUPERMARKET

No Scale

PROFILE
OFFICE BUILDING 'A'
No Scale

PROFILE
OFFICE BUILDING "B"
No Scale

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

COUNTY HEALTH OFFICER — DATE 10/4/88

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR — DATE 10/5/88

CHIEF, BUREAU OF ENGINEERING — DATE 10-4-88

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 10.20.88

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 10-17-88

A

8-31-88

LES

OWNER AND DEVELOPER

THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND - 21043

WHITMAN, REQUARDT AND ASSOCIATES
-ENGINEERS-
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND-21218

STATE OF MARYLAND — KENNETH A. McCORD — No. 1974 — REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

KENNETH A McCORD, P.E. NO 1974

SUBDIVISION NAME: DORSEY HALL			SECTION/AREA 2 - 4	LOT NO. PARCEL "L"
PLAT 7326 & 7327	BLOCK 3+4	ZONE SC-POR	TAX/ZONE MAP 30	ELEC DIST 2	CENSUS TR 6023.01
WATER CODE F10			SEWER CODE 575000	

ADDRESS CHART

PARCEL	STREET ADDRESS
Supermarket	4715 Dorsey Hall Drive
Retail Stores	4725 Dorsey Hall Drive
Office Bldg A	4745 Dorsey Hall Drive
Office Bldg B	4785 Dorsey Hall Drive

NO	DATE	DESCRIPTION OF REVISION
3	9/12/88	Minor Adjustments
2	9/1/88	As per Planning & DPW Comments
1	7/25/88	As per Planning, DPW and SCS Comments

DORSEY HALL

-SITE DEVELOPMENT PLAN-

SECTION 2 AREA 4

PARCEL "L"

(VILLAGE CENTER)

TITLE SHEET

SHEET 1 OF 14

ELECTION DISTRICT NO 2
HOWARD COUNTY, MARYLAND

DATE 4/25/88

REF. S-78-20, P-84-27, P-86-26, F-85-16, F-86-192, F-87-143, VP-87-97 & F-88-241

SCALE As Shown

TAX MAP 30

SDP-88-192

NOTE:
Design Commercial Fire Flow Rates for Howard County are 1500 gpm with 20 psi residual pressure in the main with maximum daily flow.

APPROVED
HOWARD COUNTY
DEPARTMENT OF PLANNING AND ZONING
8-31-88
LKS

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

COUNTY HEALTH OFFICER — DATE 10.11.88

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR — DATE 10/11/88

CHIEF, BUREAU OF ENGINEERING — DATE 10.4.88

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 10.20.88

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT LKS — DATE 10-13-88

Professional Certification
(for revision 4 only)
I hereby certify that these plans were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the State of Maryland. License No. 11963, Expiration Date: 7/6/2014
Carl Gutschick, P.E. 6/6/13

NOTE:
THE WATER AND SEWER DESIGNATED AS "PROPOSED" WILL BE BUILT UNDER CONTRACT 24-1833-D
THE STORM DRAINS DESIGNATED AS "PROPOSED" WILL BE BUILT UNDER F-88-241

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND - 21043

WHITMAN, REQUARDT AND ASSOCIATES
-ENGINEERS-
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND -21218
KENNETH A. McCORD, P.E. NO.19714

Date	Revision	By
6/6/13	Added 6000 gallon above ground storage tank is called for the 4 existing underground tank to be removed.	D.E.V.

SUBDIVISION NAME: DORSEY HALL		SECT./AREA 2 - 4		LOT NO. PARCEL L
PLAT 7326 & 7327	BLOCK 3+4	ZONE SC-POR	TAX/ZONE MAP 30	ELEC. DIST. 2 / CENSUS TR. 6023.1
WATER CODE F10		SEWER CODE 575000		

North

Note:
1. See Sheet 6 for ℄ Road Stakeout information.
2. Curb fillet radii are 5' unless otherwise noted.
3. Spot elevations are top of curb unless otherwise noted.
4. For private water and sewer construction, see General Notes on Sheet 1 of Contract 24-1833-D (public water and sewer).

STORM DRAIN STRUCTURE SCHEDULE

NO.	TYPE	TOP EL.	INV. IN	INV. OUT	LOCATION
I-1	A-5 Inlet (Width 2.5') S.D. 4.01	374.10	–	367.17	℄ Inlet 12.55' Left & Sta. 1+32.07
I-2	A-5 Inlet (Width 2.5') S.D. 4.02	376.60	–	369.25	℄ Inlet 31.92' Right & Sta. 3+55
I-3	A-5 Inlet (Width 2.5') S.D. 4.01	376.60	369.23	368.98	See Plan and Profile
I-4	A-5 Inlet (Width 2.5') S.D. 4.01	380.00	375.27	375.07	℄ Inlet 16.92' Left & Sta. 3+15
I-5	A-10 Inlet (Width 2.5') S.D. 4.02	378.90	–	373.86	℄ Inlet 12.08' Right & Sta. 1+85.16
I-6	"S" Inlet S.D. 4.22	379.70	371.28	371.03	℄ Inlet 11' Left & Sta. 3+15.16
I-7	A-10 Inlet (Width 2.5') S.D. 4.02	380.20	375.24	373.72	℄ Inlet 12.08' Right & Sta. 3+15.16
M-1	Standard Manhole G 5.01	372.30	364.55	360.43	See Plan and Profile
M-2	Standard Manhole G 5.01	377.00	371.32	371.08	℄ Manhole 2' Left & Sta. 0+57
M-11	Standard Manhole G 5.01	357.50	352.06	351.86	See Plan and Profile
M-15	Standard Manhole G 5.01	384.50	374.00	370.00	℄ Manhole 41' Right & Sta. 6+72
I-24	"S" comb. Inlet S.D. 4.32	383.10	375.40	375.20	℄ Inlet 20' Right & Sta. 7+64.80
M-15A	Standard Manhole G 5.01	383.00	377.98	377.56	℄ MH 17' Left & Sta. 6+72

NO.	DATE	DESCRIPTION OF REVISION
6	6-1-89	Added fuel tank on concrete apron
5	3-31-89	Added B.R.L. & Revised grading near of Supermarket
5	3-31-89	Added Drive-Thru Bank Bldg., Storm Drain & Zone Line
4	9-12-88	Minor Adjustments
3	9-1-88	As per Planning and DPW Comments
2	8-8-88	Adjusted Entrance Ramp
1	7-25-88	As per Planning, D.P.W. and S.C.S. Comments

Note:
Remove temporary bulkhead and connect to existing 21" R.C.P., see Profile on Sheet 10

DORSEY HALL
-SITE DEVELOPMENT PLAN-
SECTION 2 AREA 4
PARCEL "L"
(VILLAGE CENTER)
GRADING PLAN
SHEET 2 OF 14

ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

DATE: 4/25/88 SCALE: 1"= 30'

SDP-88-192

OLD ANNAPOLIS ROAD (MD 32)

ZONED R-20

ZONED B-1

ZONED R-A-15

DORSET HALL DRIVE

RETAIL STORE
GROUND
ELEV 395.50

Remove C & G

Temporary Sign

Trash Compactor
See Details Sheet 5

See Profile

Curbed Island

Ramp
Handicapped Sign

Cone Bumper

Depressed Curb

ROAD 1

ROAD 2

ROAD 3

ROAD 4

100' B.R.L.

30' B.R.L.

ZONE LINE

P.O.B. S.C.

Existing Zone Line

OFFICE
BLDG.
GROUND
ELEV
383.37

Limit of Paving

Directional Sign

Entrance Sign

Monument Sign

Prop 8"W.

Prop 8"S.

Prop 6"W.

Prop 6"S.

Prop 6"SHC

H.C. Ramp

Prop 20' Water Easement

Prop 30' Water and Sewer Easement

Existing 20' Drainage and Utility Easement - Plat 1521
(To be Abandoned)

Inv. 376.20

Inv. 378.70

Center Point 3'R = 0+28

Center Point 3'R = 1+20 Left 60+87

K=50

50'R

Ex MH 435

MH 1

MH 2

FUTURE OFFICE

ZONED POR

PROPOSED FIRE STATION

535° 47' 48" W - 80.78

NOTE:
Manhole M-6 shall be used as a temporary inlet. Provide standard Howard County heavy traffic manhole frame and temporary inlet grate. Upon completion of Inlet I-17, replace grate with standard manhole cover.

M-7 Standard Manhole G5.01 383.80 378.63 378.43 & Manhole 25' Right & Sta. 10+16
I-21A Yard Inlet SD.4.14 385.00 381.20 380.87 See Plan & Profile

---

...ND PUBLIC SEWERAGE SYSTEMS
...UNTY HEALTH DEPARTMENT
...UNTY HEALTH OFFICER — DATE 10/1/88

APPROVED
DIRECTOR — DATE 10/5/88
CHIEF BUREAU OF ENGINEERING — DATE 10-4-88

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 10.20.88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 8-31-88 LKS

AP...
D... 8-31-88 LKS

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA MARYLAND

WHITMAN REQUARDT AND ... ENGINEERS
2515 SAINT PAUL STREET
BALTIMORE MARYLAND 2...
Kenneth McCord
...NNETH ... FORD ... N

NO	DATE	DESCRIPTION OF REVISION
6	9/1/88	Added 6" water line
5	8/31/88	Added Sign Locations
4	9/12/88	Minor Adjustments
3	8/1/88	As per Planning and DPW Comments
2	8/8/88	Changed Public Sewer to Private
1	7/25/88	As per Planning, DPW and SCS Comments

SITE DEVELOPMENT PLAN
SECTION ...
...VILLAGE ... CENTER
...
SHEET ... 14
ELECTION DISTRICT NO. 2
HOWARD COUNTY MARYLAND
DATE 4/25/88

24-1833-D

241

SDP-88-192

STORM DRAIN STRUCTURE SCHEDULE

NO	TYPE	TOP EL	INV. IN	INV. OUT	LOCATION
I-11	A-5 Inlet (Width 25') S.D. 4.01	382.00	376.59	376.39	℄ Inlet 13.92' Left ℄ Sta 16+90.04
I-12	"S" Inlet S.D. 4.22	381.20	376.85	376.65	℄ Inlet 25.92' Left ℄ Sta 16+90.04
I-14	A-5 Inlet (Width 25) S.D. 4.01	381.00	–	375.00	℄ Inlet 30.92' Left ℄ Sta 10+81

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

COUNTY HEALTH OFFICER — DATE 10-14-88

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 10/5/88

CHIEF, BUREAU OF ENGINEERING — DATE 10-4-88

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 10.20.88

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 11-17-88

LKS

8-31-88
LKS

NOTE
THE WATER AND SEWER DESIGNATED AS "PROPOSED" WILL BE BUILT UNDER CONTRACT 24-1833-D
THE STORM DRAINS DESIGNATED AS "PROPOSED" WILL BE BUILT UNDER F-88-241

WHITMAN, REQUARDT AND ASSOCIATES
-ENGINEERS-
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND-21218
KENNETH A McCORD, P.E NO. 1974

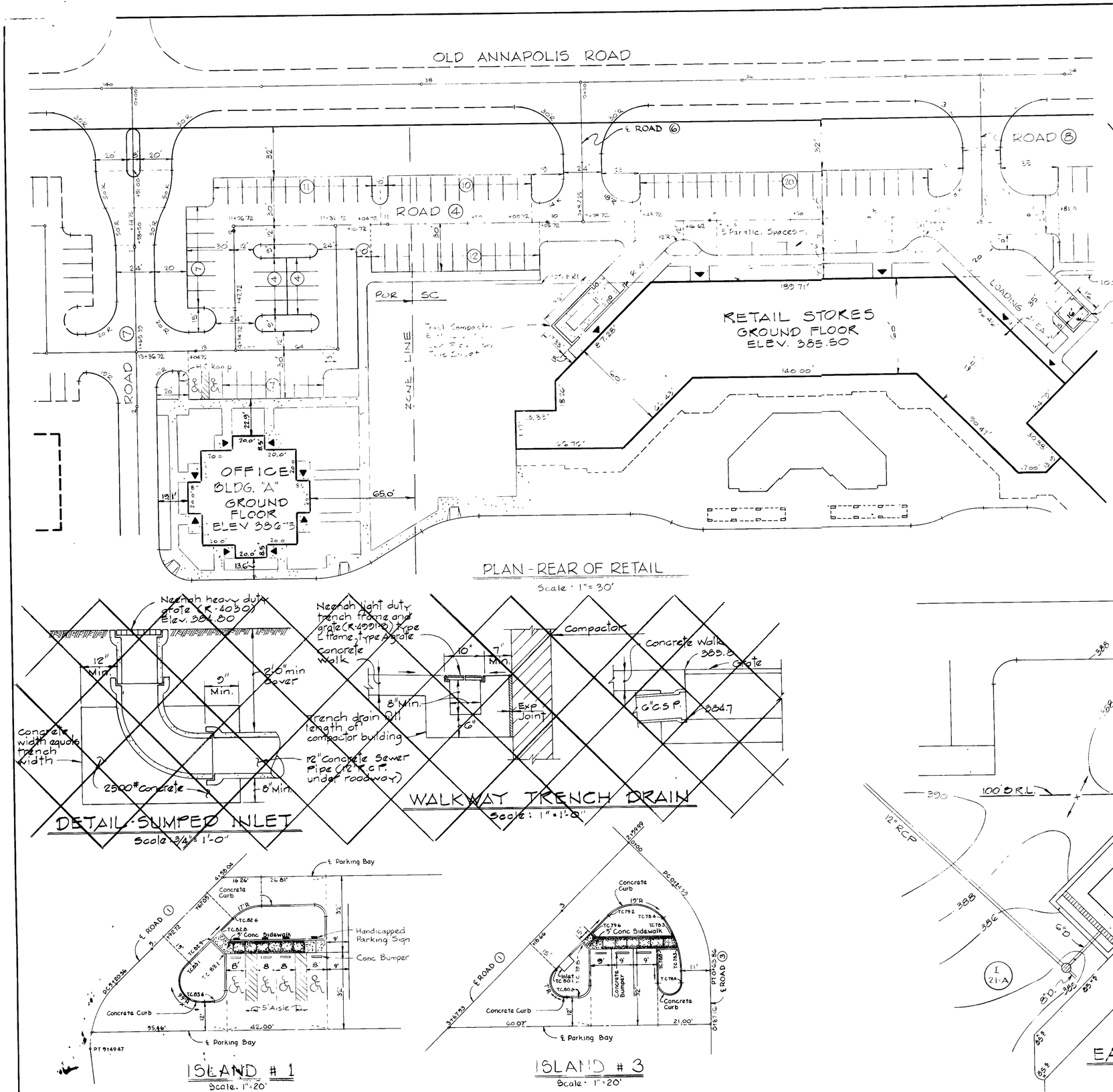
OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA MARYLAND - 21044

NO	DATE	DESCRIPTION OF REVISION
3	9/12/88	Minor Adjustments
2	9/1/88	As per Planning and DPW Comments
1	7/25/88	As per Planning, DPW and SCS Comments

DORSEY HALL
-SITE DEVELOPMENT PLAN-
SECTION 2 AREA 4
PARCEL "L"
(VILLAGE CENTER)
GRADING PLAN
SHEET 4 OF 14

ELECTION DISTRICT NO 2
HOWARD COUNTY MARYLAND
DATE 4/25/88 SCALE 1" = 30'

SDP-88-192



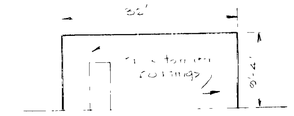
PLAN - REAR OF RETAIL
Scale: 1" = 30'

DETAIL - SUMPED INLET
Scale: 3/4" = 1'-0"

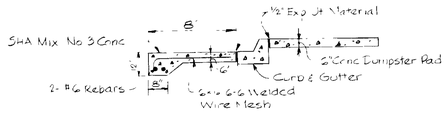
WALKWAY TRENCH DRAIN
Scale: 1" = 1'-0"

ISLAND # 1
Scale: 1" = 20'

ISLAND # 3
Scale: 1" = 20'



TRASH COMPACTOR ENCLOSURE WALL
No Scale



DUMPSTER PAD
No Scale

EAST COMPACTOR AREA
Scale: 1" = 10'

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

COUNTY HEALTH OFFICER — DATE 10-14-88

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 10/6/88

CHIEF BUREAU OF ENGINEERING — DATE 10-4-88

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 10.20.88

CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 10-17-88

LKS

APP...
PI...
DA... 8-31-88
LKS

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA MARYLAND 21043

WHITMAN REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE MARYLAND 21218

KENNETH A McCORD P E NO 1974

NO	DATE	DESCRIPTION OF REVISION
3	9/12/88	Minor Adjustments
2	9/1/88	As per Planning and DPW Comments
1	7/25/88	As per Planning, DPW and SCS Comments

DORSEY HALL
-SITE DEVELOPMENT PLAN-
SECTION 2 AREA 4
PARCEL "L"
(VILLAGE CENTER)

PARKING LOT STAKEOUT DETAILS

SHEET 5 OF 14

ELECTION DISTRICT NO 2
HOWARD COUNTY MARYLAND
DATE 4/25/88 SCALE As Shown

SDP-88-192

CURVE DATA

NO.	RADIUS	Δ	ARC.	TAN.	CHORD	CRD. BRG.
			ROAD ①			
A	135.52	09-16-52	21.95	11.00	21.93	S02-49-29E
B	37.07	45-00-00	29.11	15.36	28.37	S29-57-54E
C	45.00	25-00-00	19.64	9.98	19.48	S64-57-55E
D	61.73	25-00-00	26.94	13.68	26.72	S64-57-55E
E	61.73	25-00-00	26.94	13.68	26.72	S39-57-55E
F	45.00	25-00-00	19.64	9.98	19.48	S39-57-55E
G	55.00	30-00-00	28.80	14.74	28.47	S67-27-55E
			ROAD ②			
H	105.00	90-00-00	164.93	105.00	148.49	N82-32-05E
I	200.00	06-30-16	22.70	11.36	22.69	N34-16-57E
J	200.00	15-51-41	55.37	27.86	55.19	N23-05-59E
			ROAD ③			
K	50.00	45-00-00	39.27	20.71	38.27	S74-57-55E
L	746.00	11-13-25	146.13	73.30	145.90	S58-04-37E
M	746.00	11-14-55	146.46	73.46	146.22	S69-18-47E
			ROAD ③ CONT'D.			
N	746.00	20-17-49	264.26	133.53	262.89	S85-05-09E
O	40.00	42-46-09	29.86	15.66	29.17	S73-50-59E
P	17.00	90-00-00	26.70	17.00	24.04	S07-27-55E
Q	30.00	45-00-00	23.56	12.43	22.96	S60-02-05W
R	30.00	45-00-00	23.56	12.43	22.96	N74-57-55W
			ROAD ④			
S	30.00	45-00-00	23.56	12.43	22.96	S60-02-05W
T	25.00	45-00-00	19.64	10.36	19.13	S15-02-05W
U	25.00	45-00-00	19.64	10.36	19.13	S29-57-55E
			ROAD ⑤			
V	32.50	180-00-00	102.10	-	-	-
			ROAD ⑥			
W	60.00	45-00-00	47.12	24.85	45.92	N60-02-05E
X	30.00	45-00-00	23.56	12.43	22.96	S74-57-[illegible]E
Y	17.33	44-59-48	13.61	7.18	13.26	S29-57-57E

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

[signature] 10-14-88
COUNTY HEALTH OFFICER — DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[signature] 10/5/88
DIRECTOR — DATE

[signature] 10-4-88
CHIEF BUREAU OF ENGINEERING — DATE

APPROVED· HOWARD COUNTY OFFICE OF PLANNING AND ZONING

[signature] 10.20.88
PLANNING DIRECTOR — DATE

[signature] 10-17-88
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE

8-31-88
LKS

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND
DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND - 21043

WHITMAN REQUARDT AND ASSOCIATES
-ENGINEERS-
2315 SAINT PAUL STREET
BALTIMORE MARYLAND-21218

[signature]
KENNETH A McCORD, P E NO 1974

NO	DATE	DESCRIPTION OF REVISION
3	9/12/88	Minor Adjustments
2	9/1/88	As per Planning and DPW Comments
1	7/25/88	As per Planning, DPW and SCS Comments

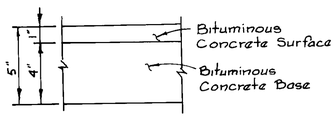
DORSEY HALL
-SITE DEVELOPMENT PLAN-
SECTION 2 AREA 4
PARCEL "L"
(VILLAGE CENTER)

℄ ROAD STAKEOUT PLAN
SHEET 6 OF 14

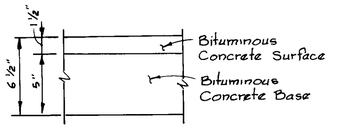
ELECTION DISTRICT NO 2
HOWARD COUNTY, MARYLAND

DATE 4/25/88 — SCALE 1" = 50'

SDP 88-192



P-1 FULL DEPTH BITUMINOUS CONCRETE



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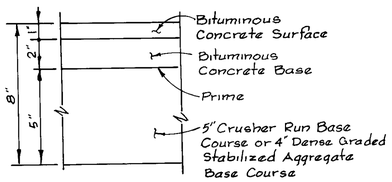
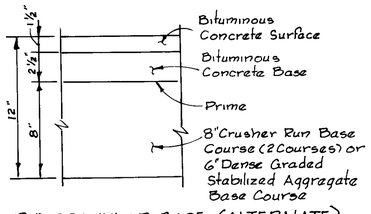
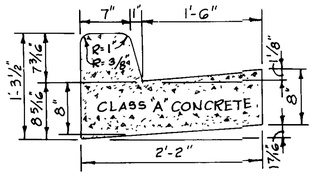


P-1 GRANULAR BASE (ALTERNATE)

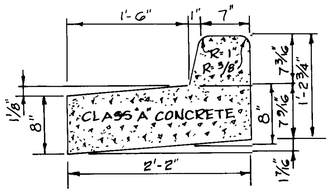


P-2 GRANULAR BASE (ALTERNATE)

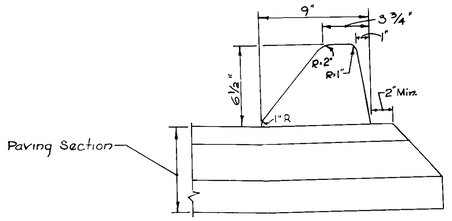
TYPICAL PAVING SECTIONS
NO SCALE



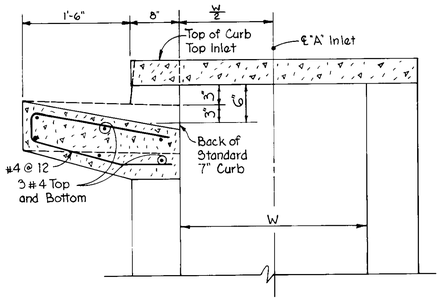
STANDARD 7" COMBINATION CURB AND GUTTER
NO SCALE



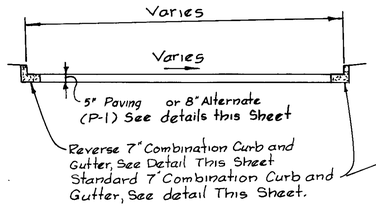
REVERSE 7" COMBINATION CURB AND GUTTER
NO SCALE



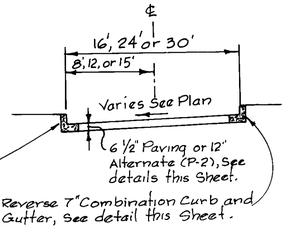
TEMPORARY BITUMINOUS CURB
No Scale



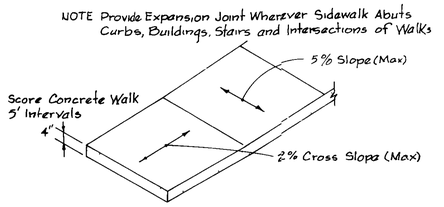
"A" INLET- STANDARD CURB
NO SCALE



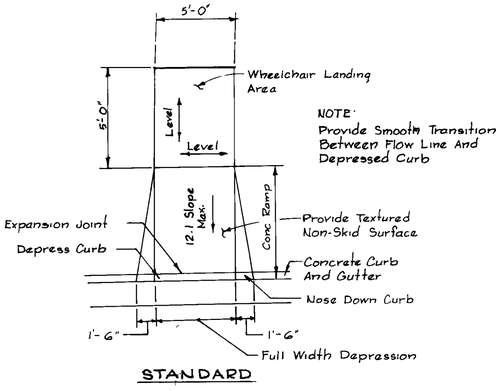
TYPICAL SECTION PARKING LOTS
NO SCALE



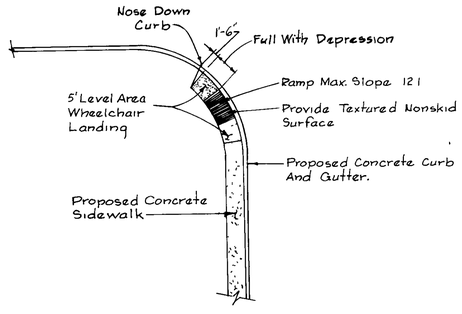
TYPICAL SECTION 16', 24' AND 30' DRIVEWAYS
NO SCALE



TYPICAL SIDEWALK DETAIL
NO SCALE

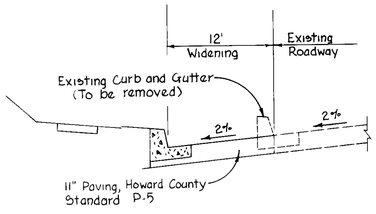


STANDARD

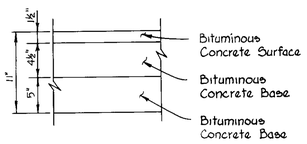


MODIFIED

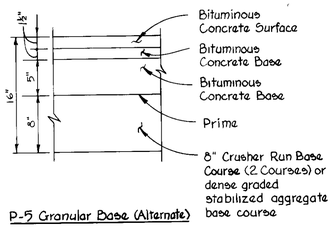
HANDICAPPED RAMP DETAILS
NO SCALE



TYPICAL SECTION



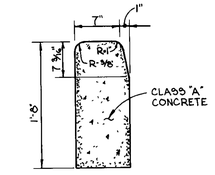
P-5 Full Depth Bituminous Concrete



P-5 Granular Base (Alternate)

PAVING SECTIONS

DORSEY HALL DRIVE WIDENING



STANDARD BARRIER CURB
NO SCALE

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

COUNTY HEALTH OFFICER — DATE 10-14-88

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 10/21/88

CHIEF BUREAU OF ENGINEERING — DATE 10-4-88

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 10.20.88

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 10-7-88 LKS

A

8-31-88
LKS

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21043

WHITMAN REQUARDT AND ASSOCIATES
-ENGINEERS-
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND-21218

KENNETH A McCORD, P E NO 1974

NO	DATE	DESCRIPTION OF REVISION
2	9/1/88	As per Planning and DPW Comments
1	7/25/88	As per Planning, DPW and SCS Comments

DORSEY HALL
-SITE DEVELOPMENT PLAN-
SECTION 2 AREA 4
PARCEL "L"
(VILLAGE CENTER)

ROAD DETAILS

SHEET 7 OF 14

ELECTION DISTRICT NO 2
HOWARD COUNTY, MARYLAND
DATE: 4/25/88 SCALE AS SHOWN

SDP-88-192

NO	DATE	DESCRIPTION OF REVISION
2	9/1/88	As per Planning and DPW Comments
1	7/25/88	As per Planning, DPW and SCS Comments

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

COUNTY HEALTH OFFICER — DATE 10-14-88

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR — DATE 10/5/88

CHIEF BUREAU OF ENGINEERING — DATE 10-4-88

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 10.20.88

CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 10-7-88

LKS

8-31-88
LKS

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND
DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA MARYLAND 21043

WHITMAN REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE MARYLAND 21218

KENNETH A. McCORD P.E. NO 1974

STATE OF MARYLAND — KENNETH ARMSTRONG McCORD — No 1974 — REGISTERED — PROFESSIONAL ENGINEER & LAND SURVEYOR

DORSEY HALL

-SITE DEVELOPMENT PLAN-
SECTION 2 AREA 4
PARCEL "L"
(VILLAGE CENTER)

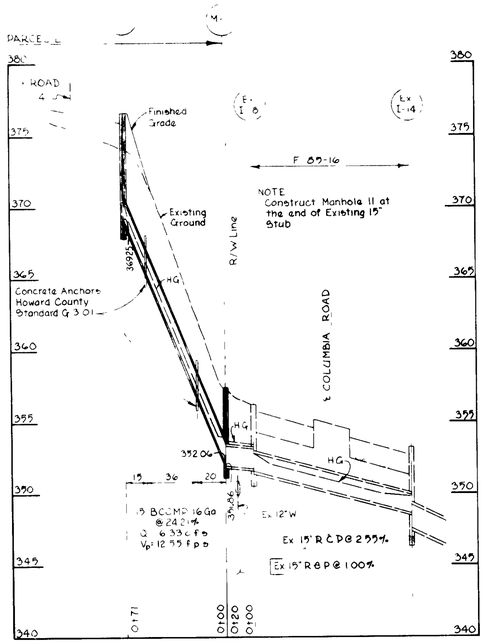
DRAINAGE AREA MAP

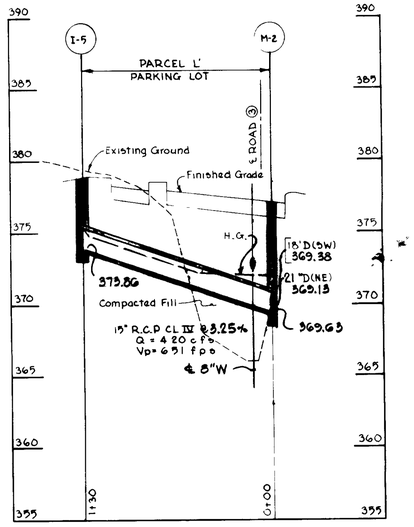
SHEET 8 OF 14

ELECTION DISTRICT NO 2
HOWARD COUNTY MARYLAND

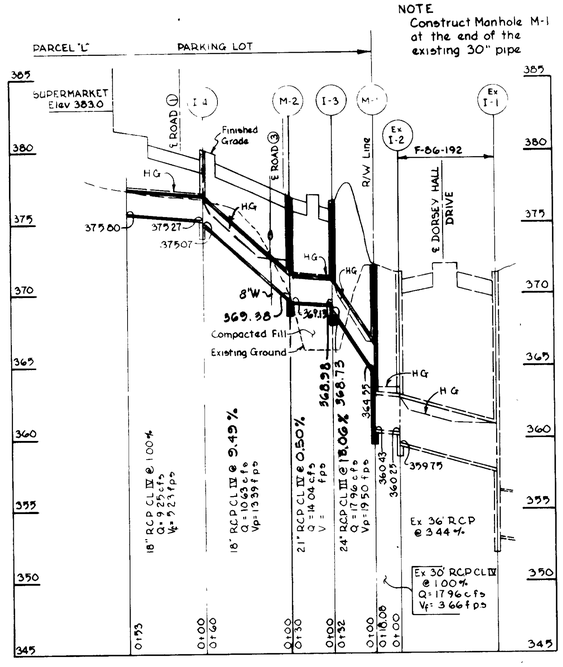
DATE 4/25/88 SCALE 1"=50'

SDP-88-192





NOTE
Construct Manhole M-1 at the end of the existing 30" pipe



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

COUNTY HEALTH OFFICER — DATE 11-14-88

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR — DATE 10/6/88

CHIEF, BUREAU OF ENGINEERING — DATE 10-4-88

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 10.20.88

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 10-7-88

APPROVED

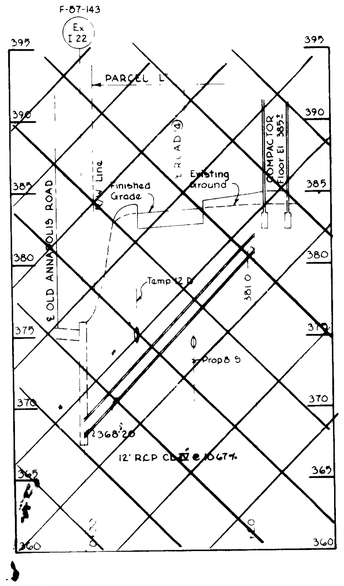
DATE 8-31-88

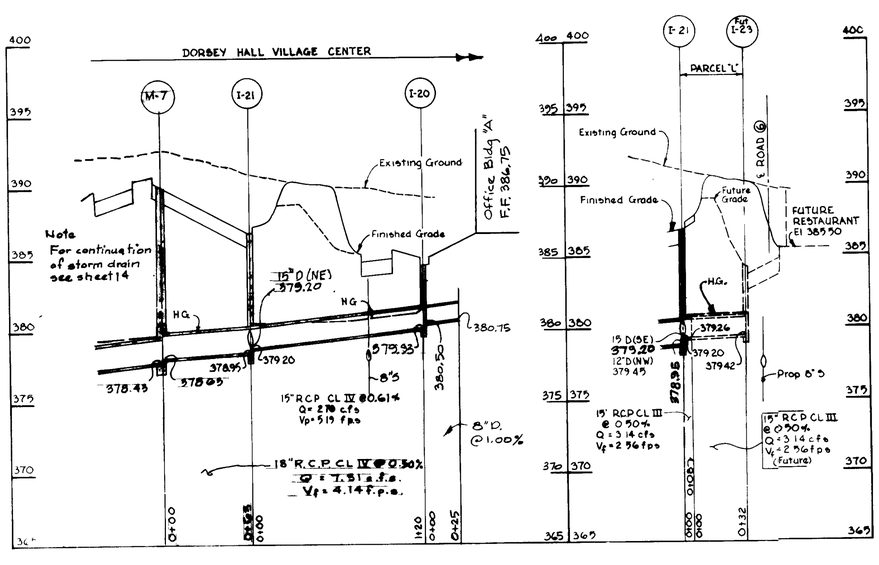
OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND -- 21044

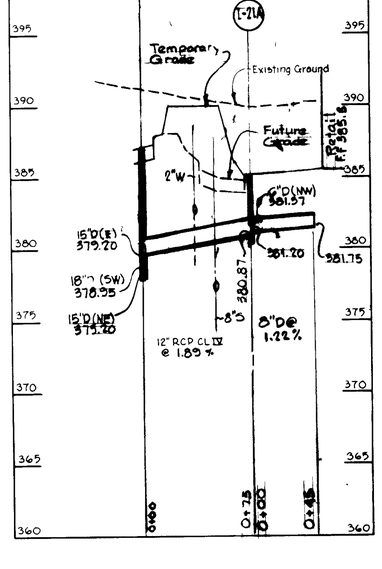
WHITMAN, REQUARDT AND ASSOCIATES
-ENGINEERS-
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND-21218

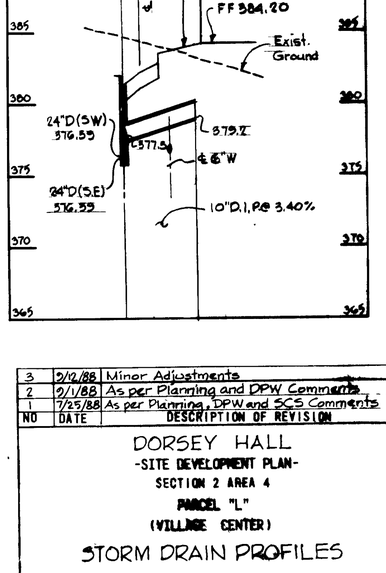
KENNETH A. McCORD, P.E. NO. 10974

NOTE
* The type of bedding used for storm drain pipe shall be Class C, shaped subgrade. If rock is encountered, the trench invert should be over excavated 6" and the over excavation of 6" refilled with granular material









NO	DATE	DESCRIPTION OF REVISION
3	9/12/88	Minor Adjustments
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DORSEY HALL
-SITE DEVELOPMENT PLAN-
SECTION 2 AREA 4
PARCEL "L"
(VILLAGE CENTER)

STORM DRAIN PROFILES

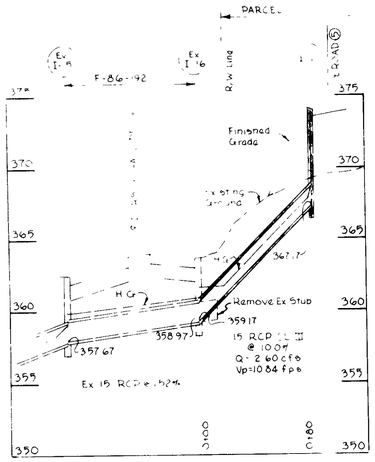
SHEET 9 OF 14

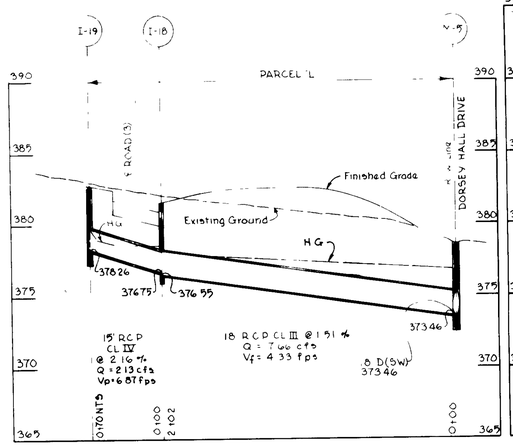
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

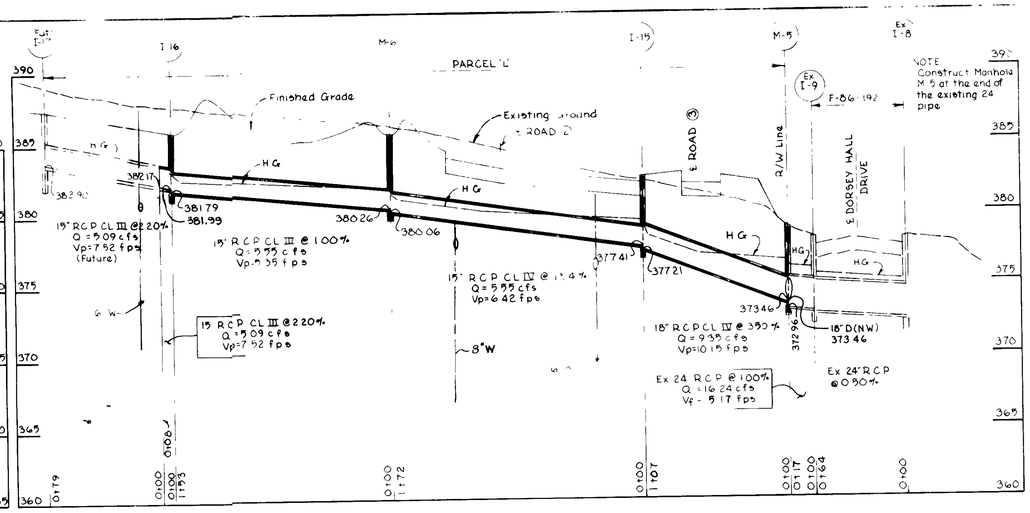
DATE: 4/25/88 SCALE: AS SHOWN.

PROFILES
Scale Horz 1"=50'
Vert 1"= 5

S89-88-192







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

COUNTY HEALTH OFFICER — DATE 10-11-88

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR — DATE 10/5/88

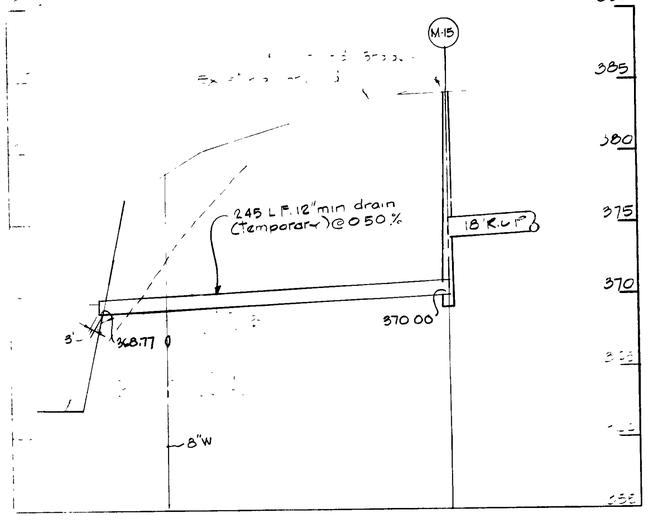
CHIEF, BUREAU OF ENGINEERING — DATE 10-4-88

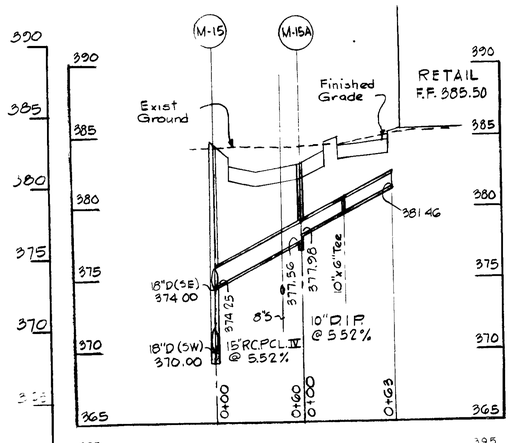
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

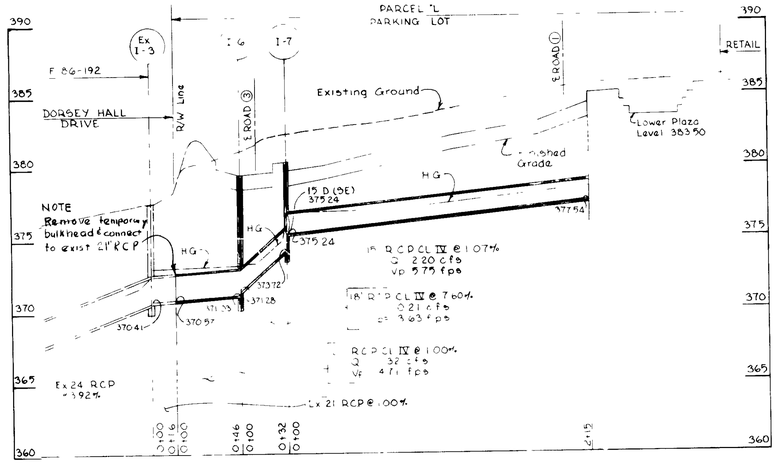
PLANNING DIRECTOR — DATE 10-20-88

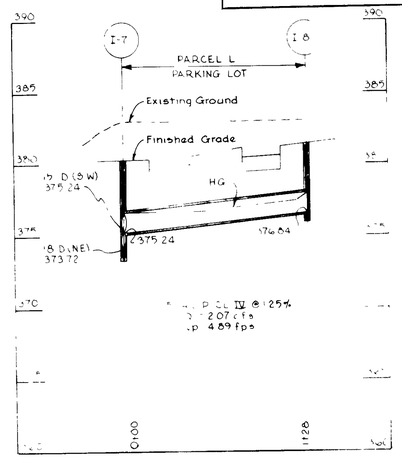
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT LKS — DATE 10-17-88

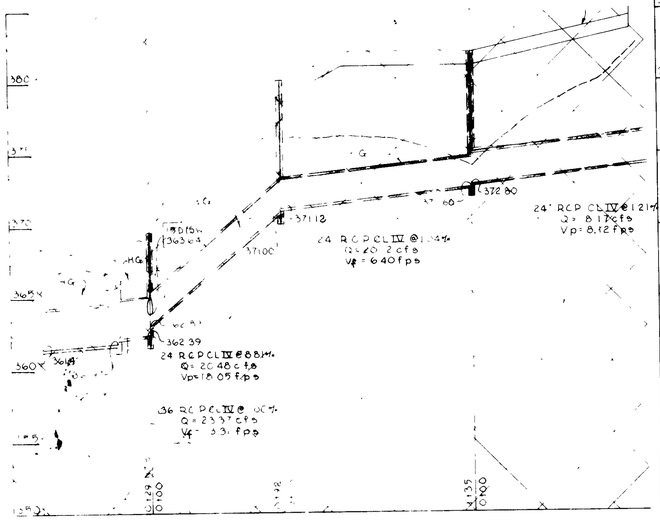
8-31-88
LKS

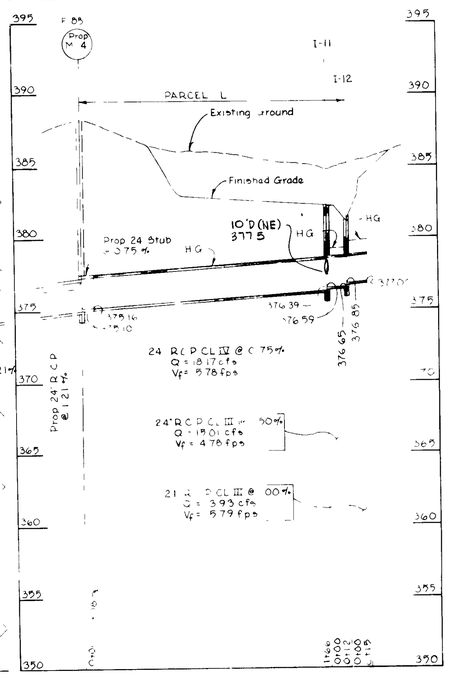


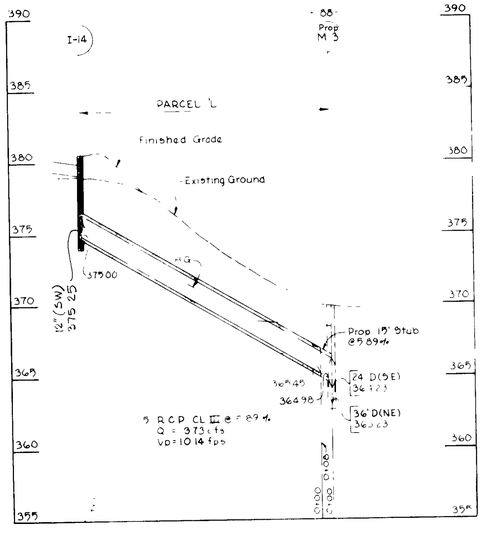












PROFILES

Scale Horz 1" = 50'
Vert 1" = 5'

NO	DATE	DESCRIPTION OF REVISION
3	9/12/88	Minor Adjustments
2	9/1/88	As per Planning and DPW Comments
1	7/25/88	As per Planning, DPW and SCS Comments

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND - 21044

WHITMAN, REQUARDT AND ASSOCIATES
-ENGINEERS-
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND-21218

KENNETH A. McCORD, P E NO 1974

DORSEY HALL
-SITE DEVELOPMENT PLAN-
SECTION 2 AREA 4
PARCEL "L"
(VILLAGE CENTER)

STORM DRAIN PROFILES

SHEET 10 OF 14

ELECTION DISTRICT NO 2
HOWARD COUNTY, MARYLAND
DATE 4/25/88 SCALE AS SHOWN

SDP-88-192

BY THE DEVELOPER:

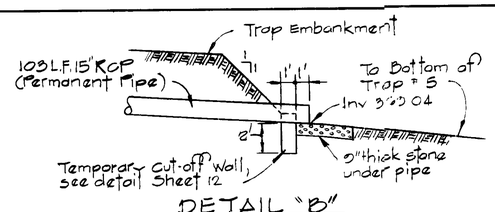
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION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

Gregory R. Klar — 4-25-88 DATE

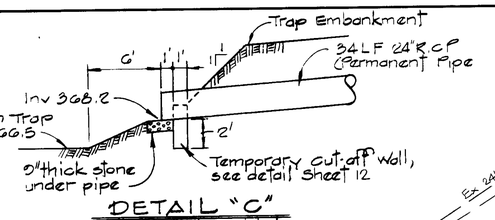
BY THE ENGINEER:

"I 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"

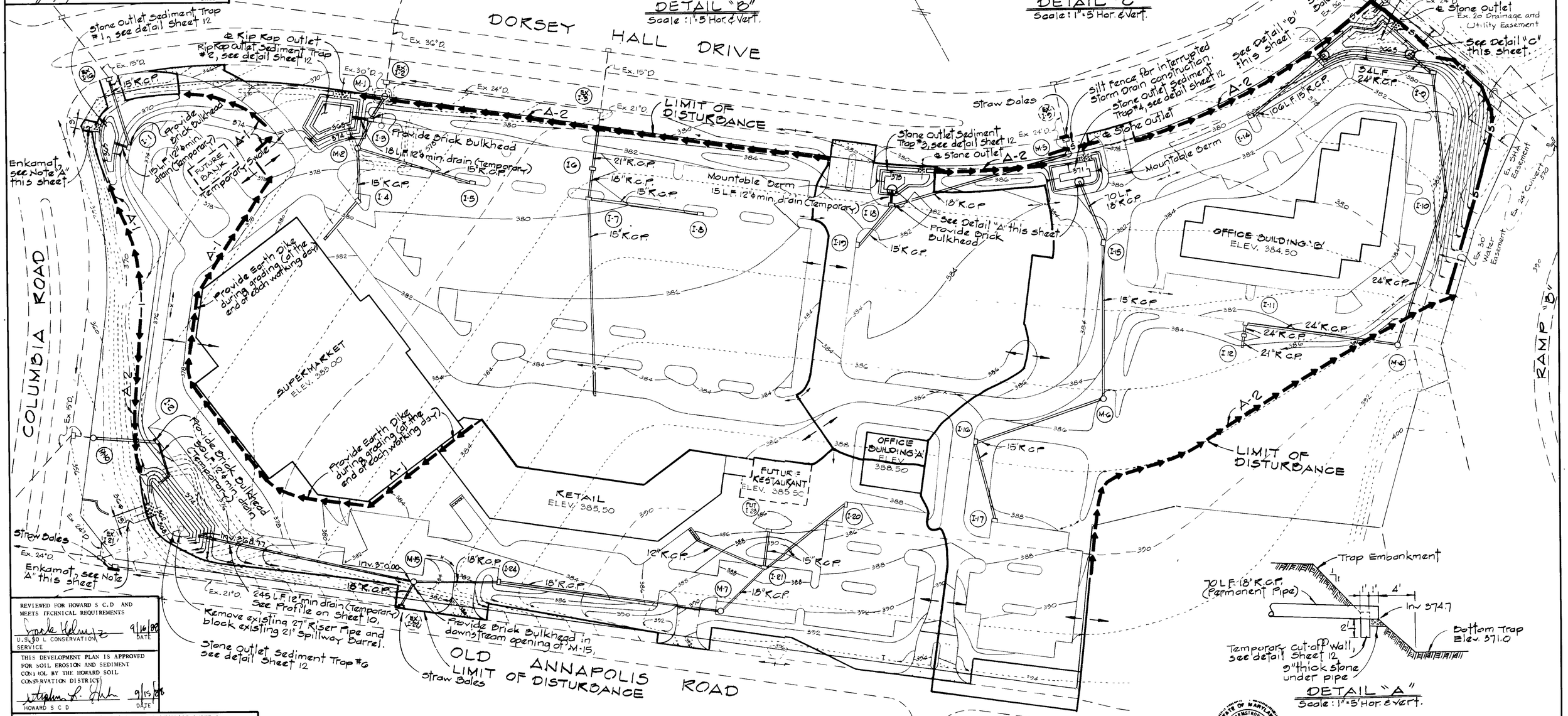
Kenneth A. McCord — 4-25-88 DATE



DETAIL "B"
Scale: 1"=5' Hor. & Vert.



DETAIL "C"
Scale: 1"=5' Hor. & Vert.



PLAN
Scale: 1" = 50'

DETAIL "A"
Scale: 1"=5' Hor. & Vert.

REVIEWED FOR HOWARD S.C.D AND MEETS TECHNICAL REQUIREMENTS
U.S. SOIL CONSERVATION SERVICE — 9/16/88 DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
HOWARD S.C.D — 9/15/88 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — 10-14-88 DATE

APPROVED. FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
DIRECTOR — 10/13/88 DATE
CHIEF BUREAU OF ENGINEERING — 10-4-88 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — 10-20-88 DATE
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT LKS — 10/17/88 DATE

Note "A" Provide Enkamat down existing slope at Trap outlets. (Traps 1 and 6)

A-1 — 8-31-88 LKS

SEDIMENT TRAP DESIGN DATA

TRAP NO.	TYPE	DRAINAGE AREA	VOLUME REQUIRED	VOLUME AVAILABLE	TOP BERM ELEV.	WEIR CREST ELEV.	WEIR LENGTH	STORAGE ELEV.	BOTTOM ELEV.
1	ST V	1.1	73.7 C.Y.	79 C.Y.	370.0	369.0	5'	368.0	365.0
2	"	5.4	361.8 C.Y.	362 C.Y.	372.0	370.5	12'	370.0	368.0
3	"	1.3	87.1 C.Y.	100 C.Y.	381.0	380.0	5'	379.0	375.0
4	"	3.1	207.7 C.Y.	211 C.Y.	381.0	380.0	12'	379.0	371.0
5	"	2.7	180.9 C.Y.	210 C.Y.	372.0	371.0	11'	370.0	366.5
6	"	2.6	174.2 C.Y.	190 C.Y.	368.0	367.0	11'	366.0	362.0

Notes:
1. Stabilized construction Entrance to be placed at all entrances; see detail on Sheet 12.
2. Place Straw Bales in front of existing inlets 9, 10, 21, 22 and 23 for construction of watermain.

NO	DATE	DESCRIPTION OF REVISION
2	9/1/88	As per Planning and DPW Comments
1	7/25/88	As per Planning, DPW and SCS Comments

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA MARYLAND 21043

WHITMAN REQUARDT AND ASSOCIATES -ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE MARYLAND 21218
KENNETH A. McCORD P.E. NO 19741

DORSEY HALL
-SITE DEVELOPMENT PLAN-
SECTION 2 AREA 4
PARCEL "L"
(VILLAGE CENTER)
SEDIMENT CONTROL PLAN

SHEET 11 OF 14
ELECTION DISTRICT NO 2
HOWARD COUNTY MARYLAND
DATE 4/25/88 SCALE As Shown

SDP-88-192

SEDIMENT CONTROL NOTES

1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection 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 sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol 1, Chaper 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.

5) 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.

6) 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

7) Site Analysis:

Total Area of Site	18.5	Acres
Area Disturbed	16.2	Acres
Area to be roofed or paved	10.0	Acres
Area to be vegetatively stabilized	8.5	Acres
Total Cut	29,000	Cu. yds
Total Fill	29,000	Cu. yds
Offsite waste/borrow area location		

8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

9) Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.

10) On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is heeded.

Seedbed Preparation. Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules

1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (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 1½ 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.

Matinenance - Inspect all seeded areas and make needed repairs, replacements and reseedings.

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, if not previously loosened.

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft)

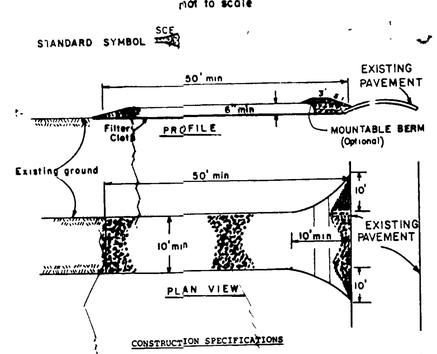
Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2½ bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect 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 1½ 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.

STABILIZED CONSTRUCTION ENTRANCE

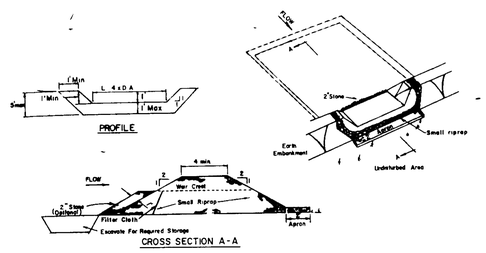
not to scale



CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 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 occure.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrances 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 or flowing 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 measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing - Wheels 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.

STONE OUTLET SEDIMENT TRAP V



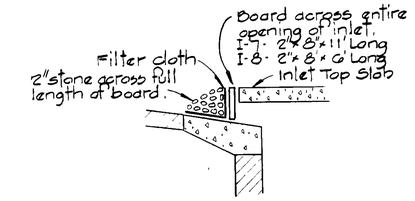
OPTION A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth

CONSTRUCTION SPECIFICATIONS FOR ST-V

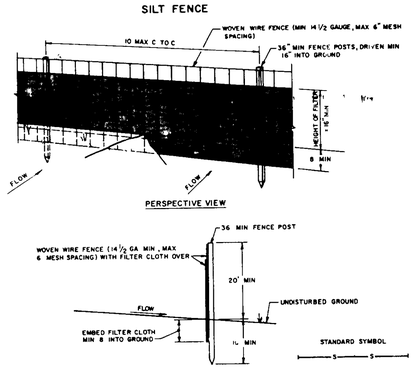
1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
3. All cut and fill slopes shall be 2 1 or flatter
4. The stone used in the outlet shall be small riprap 4"-8" along with a 1' thickness of 2" aggregate placed on the up-grade side on the small riprap OR embedded filter cloth in the riprap
5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to ½ the design depth of the trap
6. The structure shall be inspected after each rain and repairs made as needed
7. Construction operations shall be carried out in such a manner than erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

BLOCKED INLET DETAIL

NO SCALE



SILT FENCE



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.

POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD

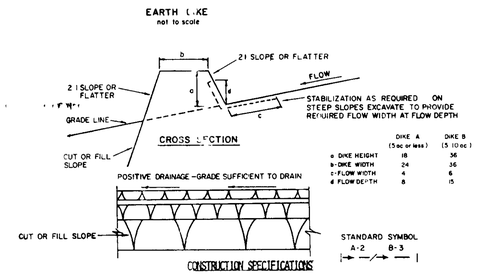
FENCE: WOVEN WIRE, 14½ GA. 6" MAX. MESH OPENING

FILTER CLOTH: FILTER X, MIRAFI 100X, STABINKA T140N OR APPROVED EQUAL

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

EARTH DIKE

not to scale



	DIKE A (5ac or less)	DIKE B (5-10ac)
a-DIKE HEIGHT	18	36
b-DIKE WIDTH	24	36
c-FLOW WIDTH	4	6
d-FLOW DEPTH	8	15

SWALE A: C 1', D 4'

OUTLET AS REQUIRED SEE ITEM 8 BELOW

CONSTRUCTION SPECIFICATIONS

1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
6. STABILIZATION SHALL BE (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

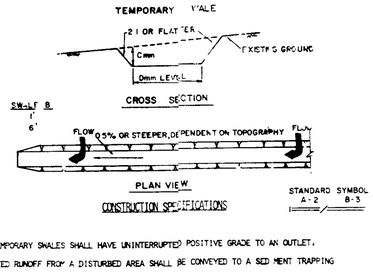
FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSIOR, SOD, 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOD, 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20%	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 IN 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 RAIN EVENT.

TEMPORARY SWALE



CONSTRUCTION SPECIFICATIONS

1. ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SED MENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY I TO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTS NABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH T E PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. STABILIZATION SHALL BE AS PER THE CHART BELOW

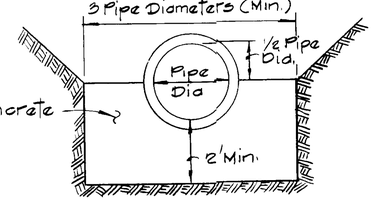
FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	A (5 AC OR LESS)	B (5 AC - 10 AC)
1	0.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELSIOR
3	5.1-8.0%	SEED WITH JUTE OR EXCELSIOR, SOD	LINED RIP-RAP 4-8" RECYCLED CONCRETE EQUIVALENT
4	8.1-20%	LINED 4-8" RIP-RAP	ENGINEERED DESIGN

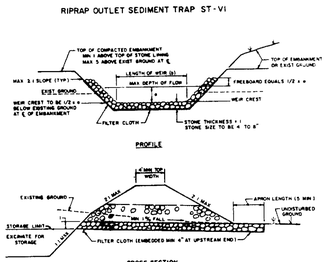
9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT

ELEVATION TEMPORARY TOE WALL

NO SCALE



RIPRAP OUTLET SEDIMENT TRAP ST-VI



CONSTRUCTION SPECIFICATIONS FOR ST-VI

1. The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots or other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment
3. All fill slopes shall be 2:1 or flatter, cut slopes 1:1 or flatter
4. Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment
5. Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the level weir crest
6. Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (1) foot with section nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel
7. Stone used in the outlet channel shall be four (4) to eight(8) inches (riprap). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot back into the upstream face of the outlet stone or a one (1) foot thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet
8. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode
9. The structure shall be inspected after each rain and repaired as needed
10. Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
11. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized
12. Drainage area for this practice is limited to 15 acres or less

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT.
2. INSTALL SIX STABILIZED CONSTRUCTION ENTRANCES.
3. CONSTRUCT SEDIMENT TRAPS 1 THRU 6, EARTH DIKES, SILT FENCE AND TEMPORARY SWALE.
4. STABILIZE EARTH DIKES WITH TEMPORARY SEEDING. SEE SPECIFICATIONS ON THIS SHEET.
5. ROUGH GRADE ENTIRE SITE.
6. CONSTRUCT ALL UTILITIES EXCEPT STORM DRAIN PIPES AND STRUCTURE WITHIN TRAPS 4 AND 5 AND STORM DRAIN PIPE BETWEEN EXISTING I-22 AND NEW I-24.
7. BLOCK INLETS I-1 AND I-8. PLACE STRAW BALES AROUND I-6.
8. BEGIN BUILDING CONSTRUCTION.
9. FINE GRADE ROADS, CONSTRUCT CURB AND GUTTER, SIDEWALKS AND SEED DISTURBED AREAS WITH PERMANENT SEEDING. SEE SPECIFICATIONS THIS SHEET.
10. PAVE ROADS
11. AFTER GRASS IS ESTABLISHED IN THE CONTRIBUTING DRAINAGE AREAS AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR THE INTERRUPTED STORM DRAINS MAY BE COMPLETED, THEN ALL SEDIMENT CONTROL FACILITIES MAY BE REMOVED.
12. STABILIZE "SEDIMENT TRAP REMOVAL AREAS" WITH PERMANENT SEEDING, SEE SPECIFICATIONS THIS SHEET.

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

COUNTY HEALTH OFFICER — 10-14-88 DATE

APPROVED FOR PUBLIC WATER AND PURLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — 10/5/88 DATE

CHIEF BUREAU OF ENGINEERING — 10-4-88 DATE

APPROVED. HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — 10.20.88 DATE

CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — 10-7-88 DATE

8-31-88

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA MARYLAND 21043

WHITMAN REQUARDT AND ASSOCIATES ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE MARYLAND 21218

KENNETH A McCORD, P E NO 19741

By the Developer.

"I/We certify that all development and construction will be done according to this plan, 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 also authorize periodic on-site inspection by the Howard Soil Conservation District."

Gregory R. Blair — 4-25-88 Date

Reviewed for HOWARD S C.D. and meets Technical Requirements

U.S. Soil Conservation Service — 9/16/88 Date

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

Howard S.C.D. — 9/15/88 Date

By the Engineer.

"I 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."

Kenneth A. McCord — 4-25-88 Date

NO	DATE	DESCRIPTION OF REVISION
2	9/1/88	As per Planning and DPW Comments
1	7/25/88	As per Planning, DPW and SCS Comments

DORSEY HALL

-SITE DEVELOPMENT PLAN-
SECTION 2 AREA 4
PARCEL "L"
(VILLAGE CENTER)

SEDIMENT CONTROL DETAILS

SHEET 12 OF 14

ELECTION DISTRICT NO 2
HOWARD COUNTY MARYLAND
DATE 4/25/88 SCALE As Shown

SDP-88-192

PLANTING DETAIL
Not to Scale

LIGHTING LEGEND

	QUANTITY	MFG. & CAT NO.	HEIGHT	COLOR
	18	GARDCO/VALMONT POLE H1913-400 M.H./DS210-6.6 A 300	30'	DARK DURONODIC BRONZE
	13	GARDCO/VALMONT POLE H1923-400 MH/DS210-6.6 A 300	30'	DARK DURONODIC BRONZE

LANDSCAPING LEGEND

	SIZE	QUANTITY
OVERHEAD CANOPY TREE ie MAPLE, ASH OR SWEETGUM	2½" - 3" MIN. 12' - 14' HT	258
INTERMEDIATE FOCUS TREE ie CHERRY FLOWERING, HAWTHORN, MAGNOLIA, FLOWERING CRAB	8' - 10' HT. 2" - 2½" C	56
EVERGREEN (CONIFER) ie WHITE PINE, NORWAY SPRUCE	6' - 8' HT.	65
EXISTING STREET TREES	12' - 14' HT.	

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

COUNTY HEALTH OFFICER — DATE 10-14-88

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 10/5/88

CHIEF BUREAU OF ENGINEERING — DATE 10-4-88

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 10-20-88

CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 10-13-88

LKS

8-31-88
LKS

NO	DATE	DESCRIPTION OF REVISION
2	9/1/88	As per Planning and DPW Comments
1	7/25/88	As per Planning, DPW and SCS Comments

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA MARYLAND 21043

WHITMAN REQUARDT AND ASSOCIATES ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE MARYLAND 21218

KENNETH A. McCORD P.E. NO. 9

DORSEY HALL

SITE DEVELOPMENT PLAN
SECTION 2 AREA 4
PARCEL "L"
(VILLAGE CENTER

LIGHTING AND LANDSCAPE PLAN

SHEET 13 OF 14

ELECTION DISTRICT NO 2
HOWARD COUNTY MARYLAND

DATE 4/25/88 SCALE 1"=50'

SDP-88-192

SECTION "A-A"

SECTION "B-B"

SECTION "C-C"

CROSS-SECTIONS

Scale Horz 1"=100'
Vert 1"=10'

STORM DRAIN PROFILE Scale Horz 1" = 50' Vert 1" = 5'

PROFILE "J"

PROFILE "B"

PROFILE "F"

FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER — 10-14-88 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — 10/5/88 DATE

CHIEF BUREAU OF ENGINEERING — 10-4-88 DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — 10.20.88 DATE

CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — 10-7-88 DATE

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 8-31-88

OWNER AND DEVELOPER

THE HOWARD RESEARCH AND
DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA MARYLAND 21044

WHITMAN REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE MARYLAND 21218

KENNETH A. McCORD P.E. No. 9?4

NO	DATE	DESCRIPTION OF REVISION
2	9/12/88	Minor Adjustments
1	9/1/88	As per Planning and DPW Comments

DORSEY HALL
SITE DEVELOPMENT PLAN
SECTION 2 AREA 4
PARCEL "L"
(VILLAGE CENTER)

CROSS-SECTIONS, DETAILS, WATER, SEWER AND STORM DRAIN PROFILES

SHEET 14 OF 14

ELECTION DISTRICT NO. 2
HOWARD COUNTY MARYLAND
DATE 7/25/88 SCALE AS SHOWN

SDP-88-192

MATCH LINE SHEET 3

ZONED B-1

OLD ANNAPOLIS ROAD

PROPOSED FIRE STATION
ZONED POR
HOWARD COUNTY, MARYLAND
LIBER 1710 FOLIO 633

N54°17'12"W - 230.00'

ZONED R-A-15

DORSEY HALL DRIVE

ROAD 1

ROAD 3

OFFICE BUILDING "B"
FLOOR ELEV. 384.20

14 L.F. 21" RCP CL. III
10 L.F. 24" RCP CL. III
60 L.F. 24" RCP CL. III
50 L.F. 10" D.I.P.
70 L.F. 12" R.C.P. CL. IV
160 L.F. 15" RCP CL. III
49 L.F. 6" D.I.P.
See Profile J

Ex. 24" RCP
Ex. 36" RCP
Ex. 30" RCP
Ex. 12" W.
Ex. Paving, Curb and Gutter
Ex. G"W
Ex. B"SD
Ex. 20' Drainage Easement
Ex. 24" RCP
Ex. SHA Perpetual Easement for Outlet Ditch

Prop. 20' Drainage Easement
Prop. 24" RCP
Prop. 24" RCP

S45°10'40"W - 155.84'
Ex. 15" RCP
Ex. 12" RCP
Ex. 30" W.
N82°36'14"W - 35.57'
S16°08'48"W - 37.91'
Right-of-Way Line of Through Highway
S46°00'55"W - 134.20'
Ex. 30 Water Main Easement
S54°43'28"W - 134.20'
N19°10'43"W - 214.28'

HOWARD COUNTY, MARYLAND
LIBER 1462 FOLIO 133
Existing Water Pumping Station
ZONED POR

30' B.R.L.

10'X26' CONCRETE PAD

10'x12' DUMPSTER ENCLOSURE SEE DETAIL THIS SHEET

PARCEL M
ZONED POR

RAMP "B"

U.S. ROUTE 29 AND MARYLAND ROUTE 108 INTERCHANGE AREA

E845,500
N512,800
N513,100

Inv. 378.20
Inv. 377.45

F-87-143

WEST COMPACTOR AREA
Scale: 1"=10'

STORM DRAIN STRUCTURE SCHEDULE					
NO.	TYPE	TOP EL.	INV. IN	INV. OUT	LOCATION
I-11	A-5 Inlet (Width 2.5') S.D. 4.01	382.00	376.59	376.39	℄ Inlet 13.92' Left ℄ Sta. 16+90.04
I-12	"S" Inlet S.D. 4.22	381.20	376.85	376.65	℄ Inlet 25.92' Left ℄ Sta. 16+90.04
I-14	A-5 Inlet (Width 2.5') S.D. 4.01	381.00	—	375.00	℄ Inlet 32.92' Left ℄ Sta. 10+81

14" WIDE CAPSTONE CAP WITH CHAMFERED TOP
4" BRICK VENEER WITH 8" CMU BACKUP, TRUSS OR LADDER TYPE MASONRY REINFORCEMENT @ 16" O.C. VERTICAL
8'-0"
30" MIN
8"X20" CONCRETE FOOTING

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE 8-31-88
LKS

10'X12' DUMPSTER ENCLOSURE DETAIL
NO SCALE

STRAP HINGES ATTACHED TO PIPE BOLLARD PER MANUF. INSTRUCTIONS
(2) 7'-0"X7'-8" COMMERCIAL INDUSTRIAL WOOD DOOR OR SIMILAR, STAINED TO MATCH METAL CANOPY
8'

NOTE:
THE WATER AND SEWER DESIGNATED AS "PROPOSED" WILL BE BUILT UNDER CONTRACT 24-1833-D

THE STORM DRAINS DESIGNATED AS "PROPOSED" WILL BE BUILT UNDER F-88-241

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
COUNTY HEALTH OFFICER — DATE 10-19-88

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 10/6/88
CHIEF, BUREAU OF ENGINEERING — DATE 10-4-88

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR — DATE 10.20.88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 10-17-88
LKS

8.03.05
STATE OF MARYLAND
JAMES C. HEMINGER
No. 21623
PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION OF REVISION
4	8 08 05	1 DUMPSTER PAD ADDED
3	9/12/88	Minor Adjustments
2	8/1/88	As per Planning and DPW Comments
1	7/25/88	As per Planning, DPW and SCS Comments

REVISION 4

DORSEY HALL
-SITE DEVELOPMENT PLAN-
SECTION 2 AREA 4
PARCEL "L"
(VILLAGE CENTER)
GRADING PLAN
SHEET 4 OF 14

ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND
DATE: 4/25/88 SCALE: 1" = 30'

WHITMAN, REQUARDT AND ASSOCIATES
-ENGINEERS-
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218
KENNETH A. McCORD, P.E. NO. 1974

STATE OF MARYLAND
KENNETH A. McCORD
No. 1974
REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

OWNER AND DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND - 21044

SDP-88-192