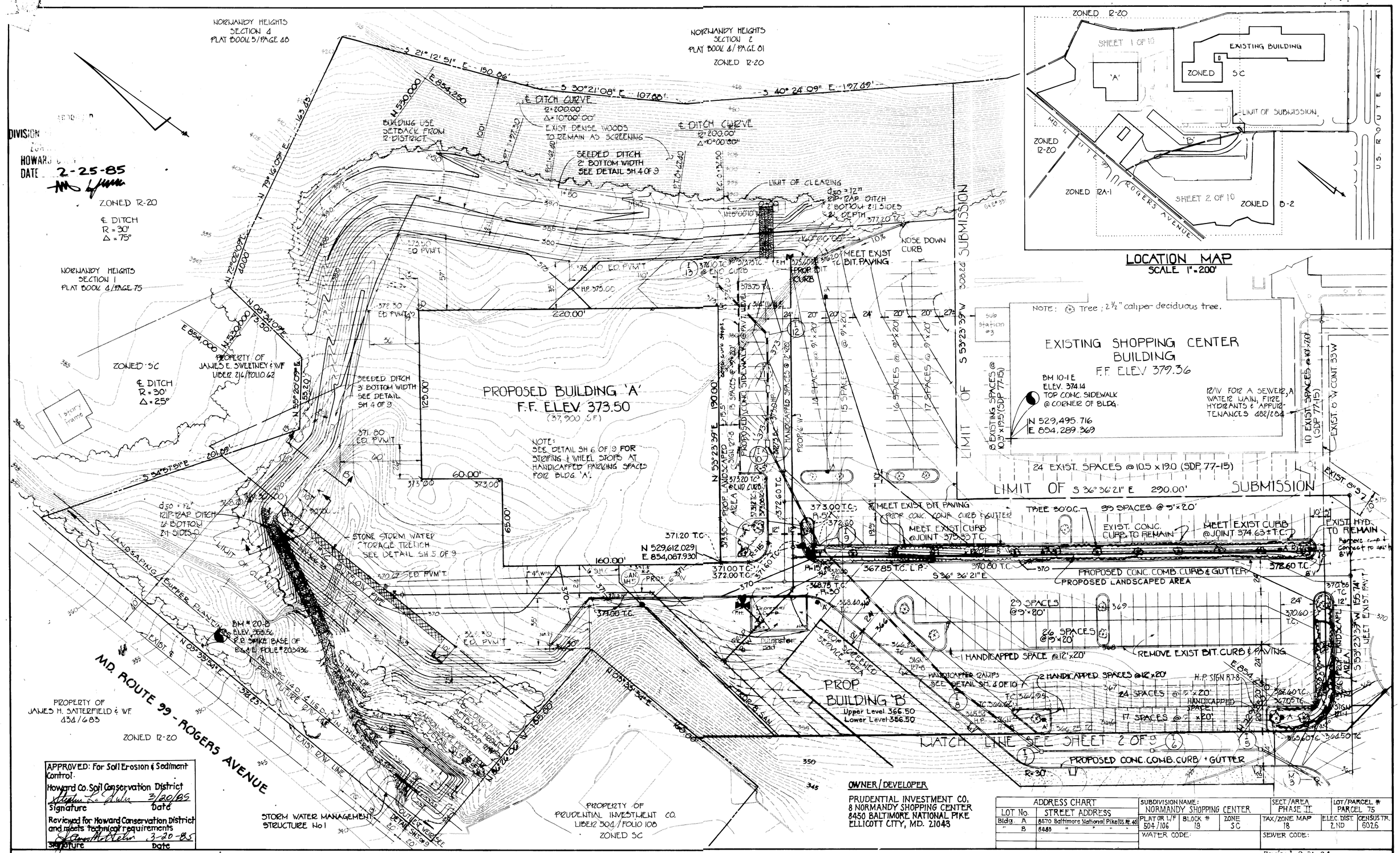


APPROVED: For Soil Erosion & Sediment Control.
Howard Co. Soil Conservation District
Signature — Date 3/20/85
Reviewed for Howard Conservation District and meets technical requirements
Signature — Date 3-20-85

ADDRESS CHART		SUBDIVISION NAME:		SECT/AREA	LOT/PARCEL #
LOT No.	STREET ADDRESS	NORMANDY SHOPPING CENTER		PHASE II	PARCEL 75
Bldg. A	8470 Baltimore National Pike (US Rt. 40)	PLAT OR L/F 504/106	BLOCK # 19	ZONE SC	TAX/ZONE MAP 18
" B	8450 " " " "	WATER CODE:		SEWER CODE:	ELEC. DIST. 2ND / CENSUS TR. 6026

Revised 9-21-84

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1823 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: For Public Water, Public Sewerage, Storm Drainage and Roads, Howard County, Dept. of Public Works
Director — Date 3-25-85
Chief, Bureau of Engineering — Date

APPROVED: For Public Water and Public Sewerage Systems. Howard County Health Department
County Health Officer — Date 3/28/85

APPROVED: Howard Co. Office of Planning & Zoning
Chief, Division of Land Development — Date 3-28-85
Planning Director — Date 3-28-85

DEVELOPER'S CERTIFICATION
I certify that all development and construction will be done according to this plan and any responsible personnel involved in the construction project will have a certificate of attendance at the Dept. of Natural Resources training program for the control of sediment and erosion before beginning the project.

ENGINEER'S CERTIFICATION
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.
WILLIAM G. RASCHE II — DATE 9/28/80

NORMANDY SHOPPING CENTER (PHASE II)
SITE DEVELOPMENT PLAN
2nd Election District
Tax Map Nos. 17 & 18
Scale: 1"=50'
Howard County, Md.
Parcel Nos. 75 & 155
Date: 9-29-80

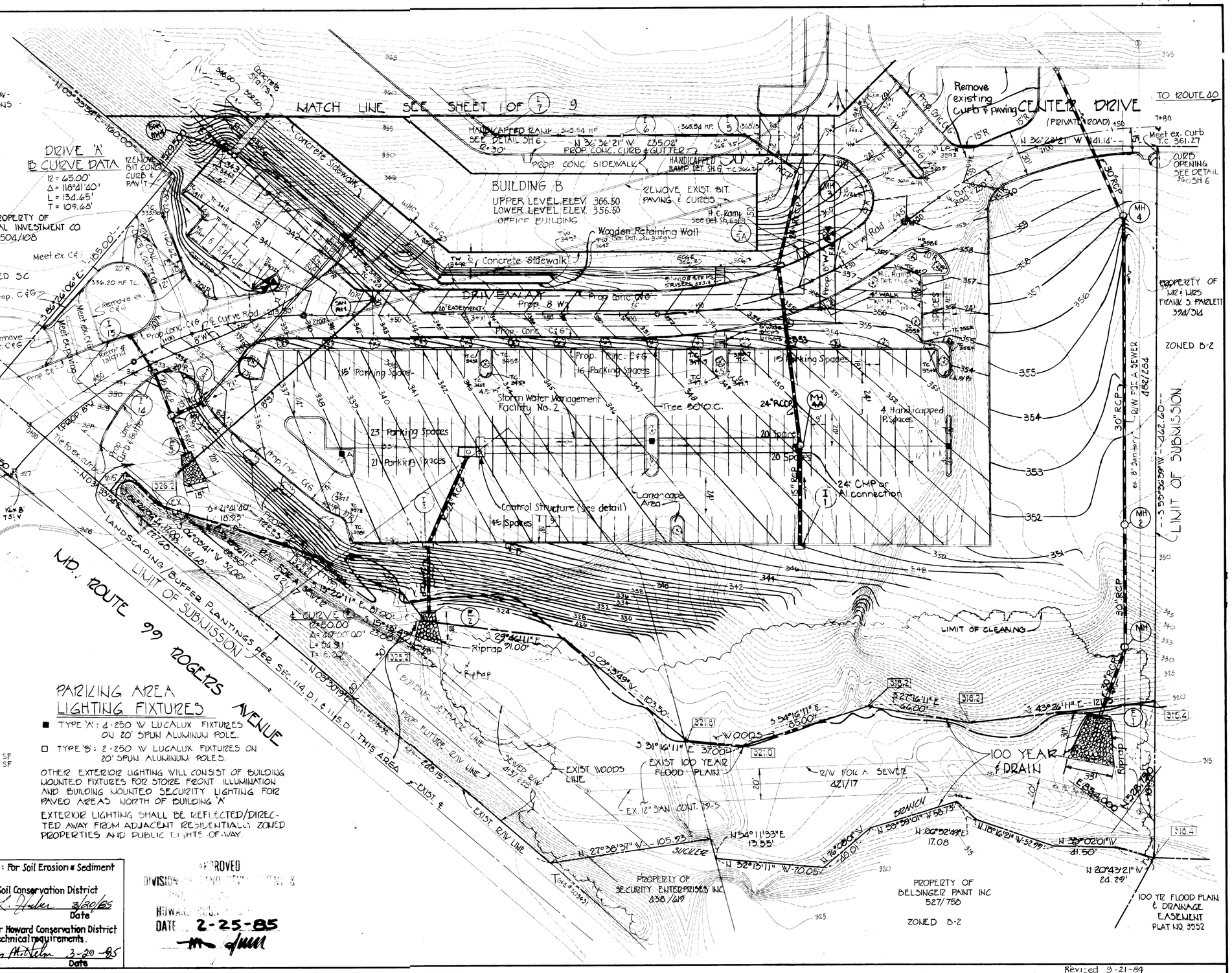
SHEET 1 OF 9

General Revisions 1/5/01
Convert to Md. State Coord. Grid - revise per Ho. Co. Cmts. 3/5/01
11/29/01
Designed: D.E.
Drawn by: S.R.D.
Checked by: D.E.

SDP-84-297

NOTES

1. DRAWING AND PAGE NUMBERS SHOWN HEREON ARE REFERENCED TO THE HOWARD COUNTY STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
2. THE LOCATION OF EXISTING UTILITIES SHOWN HEREON ARE BASED ON THE LATEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL HOWEVER, DETERMINE THE EXACT LOCATION BEFORE MAKING CONNECTIONS
3. THE CONTRACTOR SHALL NOTIFY 'MISS UTILITY' AT LEAST THREE DAYS PRIOR TO BEGINNING ANY WORK SHOWN HEREON.
4. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION UNLESS OTHERWISE SPECIFIED.
5. HANDICAPPED FACILITIES TO BE PROVIDED
6. ALL ROADS & DRIVEWAYS WITHIN THE LIMITS OF SUBMISSION ARE PRIVATE ROADWAYS.
7. ALL NEW WATER MAINS (EXCEPT WATER HOUSE CONNECTIONS) ARE TO BE PUBLIC WATER MAINS CONSTRUCTED UNDER CONTRACT NO
8. HANDICAPPED PARKING SPACE SIGN, USE R7-8, PAGE 2B-24 OF MD. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. HEIGHT OF SIGN 6' FROM GROUND.



SITE ANALYSIS

1. TOTAL AREA OF SITE ..... 13.869 AC.±
2. PRESENT ZONING: SC ..... 8.010 AC.±
   B2 ..... 5.859 AC.±
3. TOTAL AREA DISTURBED ..... 9.718 AC.±
4. TOTAL AREA PAVED ..... 24,386 S.Y.
5. LOT COVERAGE - STRUCTURES ..... 9.5 %
6. OPEN SPACE ..... 45.8 %
7. PARKING ANALYSIS:
   NO. OF EXIST. PARKING SPACES (SDP 77-15 & SDP 79-140) 606
   NO. OF SPACES TO REMAIN 456
   NEW SPACES PROVIDED (INCLUDING 12 HANDICAPED SPACES) 404
   TOTAL PARKING SPACES PROVIDED 860
   PARKING REQUIREMENTS:
   TOTAL EXISTING BUSINESS AREA (SDP-79-140) .. 77,355 S.F.
   NEW CONSTRUCTION: BUILDING 'A' ..... 36,000 S.F.
   (NET BUSINESS AREA) BUILDING 'B' - UPPER FLOOR-RETAIL - 18,570 SF
   LOWER FLOOR-OFFICES - 19,550 SF
   TOTAL BUSINESS AREA ..... 132,105 S.F.
   SPACES REQ'D @ 1 SPACE/200 SF 660
   TOTAL OFFICE AREA ..... 19,550 S.F.
   SPACES REQ'D @ 7 SPACES/EACH 10 PERSONS 60
   TOTAL SPACES REQUIRED 720
8. AREA OF LANDSCAPED ISLANDS WITHIN
   PROPOSED PARKING LOTS ..... 1,836 S.Y.
   LANDSCAPED ISLAND - PERCENT OF TOTAL PAVED AREA ..... 7.4 %

PARKING AREA LIGHTING FIXTURES

- ■ TYPE 'A': 4-250 W LUCALOX FIXTURES ON 20' SPUN ALUMINUM POLE.
- □ TYPE 'B': 2-250 W LUCALOX FIXTURES ON 20' SPUN ALUMINUM POLES.

OTHER EXTERIOR LIGHTING WILL CONSIST OF BUILDING MOUNTED FIXTURES FOR STORE FRONT ILLUMINATION AND BUILDING MOUNTED SECURITY LIGHTING FOR PAVED AREAS NORTH OF BUILDING 'A'

EXTERIOR LIGHTING SHALL BE REFLECTED/DIRECTED AWAY FROM ADJACENT RESIDENTIALLY ZONED PROPERTIES AND PUBLIC RIGHTS-OF-WAY.

APPROVED: For Soil Erosion & Sediment Control.
Howard Co. Soil Conservation District
Stephen L. Hecker 3/20/85
Signature Date
Reviewed for Howard Conservation District and meets technical requirements.
James Mitchell 3-20-85
Signature Date

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING
HOWARD COUNTY, MD.
DATE 2-25-85

Revised 9-21-84

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: For Public Water, Public Sewerage, Storm Drainage and Roads, Howard County, Dept. of Public Works
Director Date
Chief, Bureau of Engineering Date

APPROVED: For Public Water and Public Sewerage Systems. Howard County Health Department
County Health Officer Date

APPROVED: Howard Co. Office of Planning & Zoning
Chief, Division of Land Development and Zoning Administration Date
Planning Director Date

DEVELOPER'S CERTIFICATION
I certify that all development and construction will be done according to this plan and any responsibility personal involved in the construction project will have a certificate of attendance at the Dept. of Natural Resources training program for the control of any sediment erosion before beginning the project.
The Prudential Insurance Co.
By: James E. Lindsay

ENGINEER'S CERTIFICATION
I certify that this plan of 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.
WILLIAM G. HEACH II 9/28/84 DATE

NORMANDY SHOPPING CENTER (PHASE II)
SITE DEVELOPMENT PLAN
2nd Election District
Tax. Map Nos. 17 & 18
Scale: 1" = 30'
Howard County, Md.
Parcel Nos. 154 & 155
Date: 9-29-00

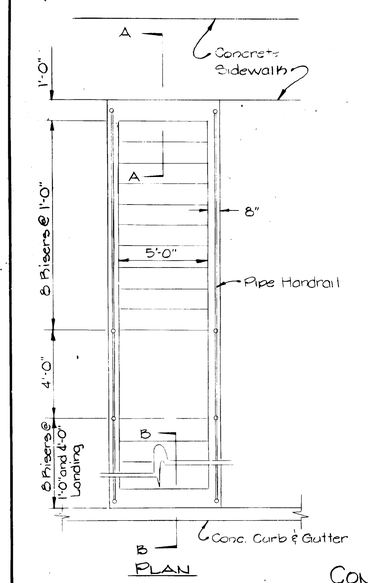
SHEET 2 OF 9
General Revisions 1/5/01
Convert to Md. State Coord. Grid - revise per Ho. Co. Cmts. 3/3/01
Designed: B.E.
Drawn by: J.R.B.
Checked by: B.E.

SDP-84-247

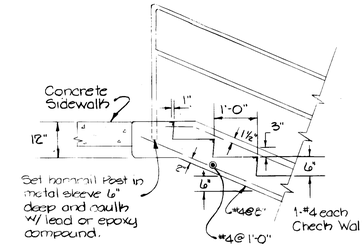
BRUNING AHE 1183-2

APPROVED: For Soil Erosion & Sediment Control.
Howard Co. Soil Conservation District
Signature Date 3/26/85

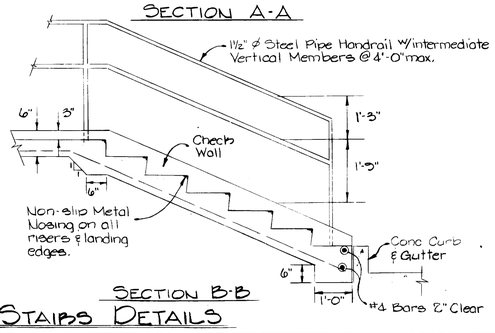
Reviewed for Howard Conservation District and meets technical requirements.
Signature Date



PLAN

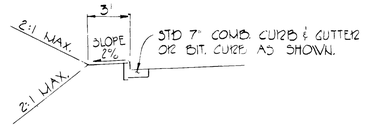


SECTION A-A

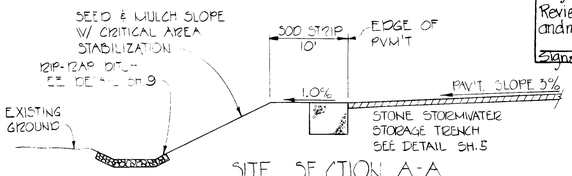


SECTION B-B

CONCRETE STAIRS DETAILS

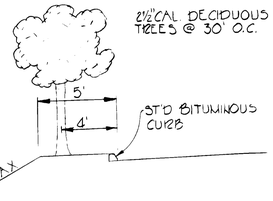


TYPICAL SECTION
PAVEMENT EDGE
NO SCALE

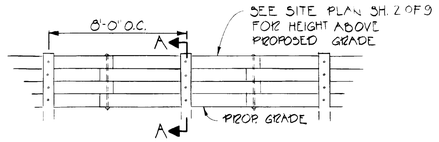


SITE SECTION A-A
NO SCALE

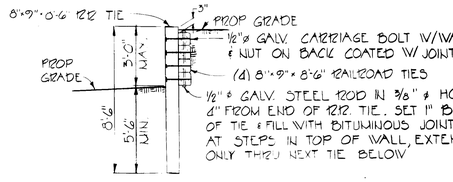
SITE SECTION B-B
NO SCALE



TYPICAL SECTION PAVEMENT EDGE
W/ LANDSCAPE BUFFER STRIP
NO SCALE

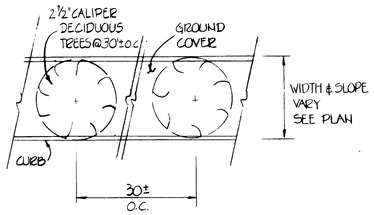


ELEVATION



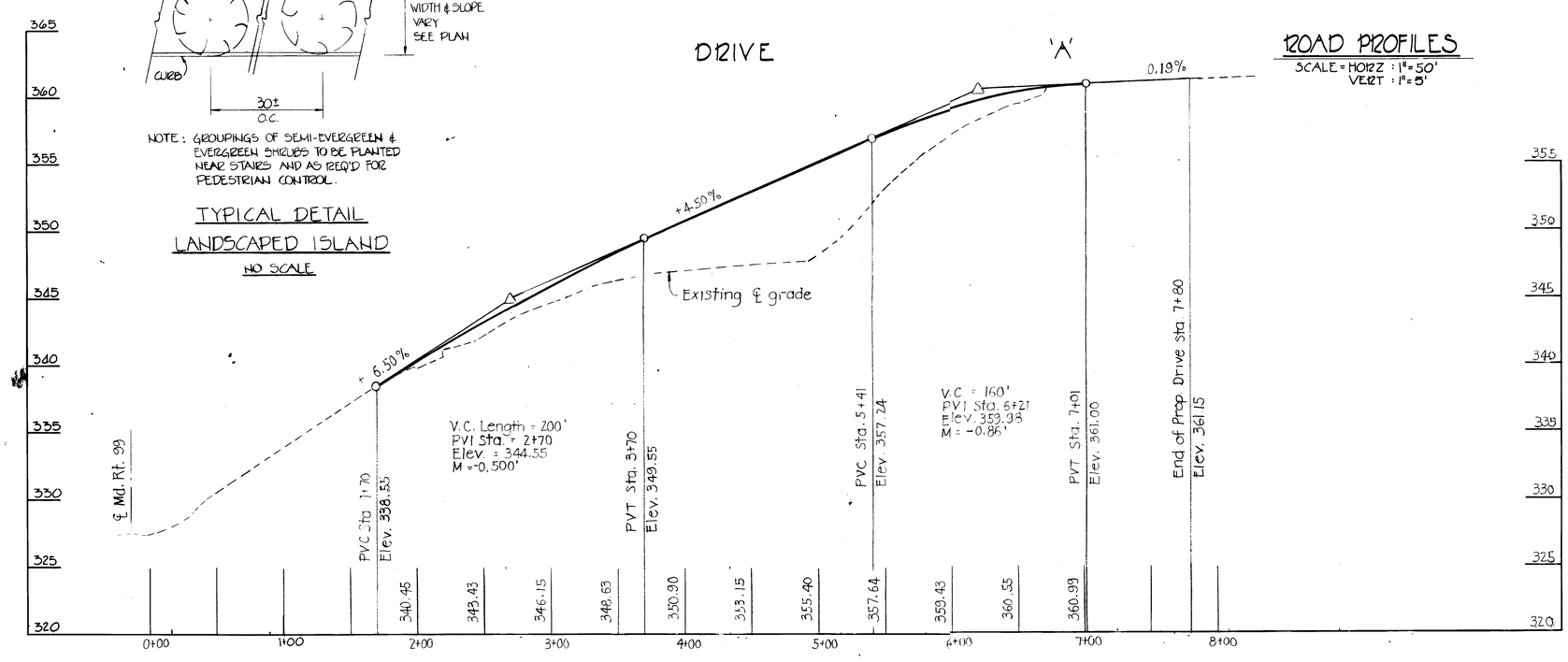
SECTION A-A
RETAINING WALL DETAIL
NO SCALE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 2-25-85



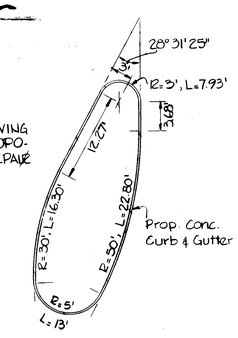
NOTE: GROUPINGS OF SEMI-EVERGREEN & EVERGREEN SHRUBS TO BE PLANTED NEAR STAIRS AND AS REQ'D FOR PEDESTRIAN CONTROL.

TYPICAL DETAIL
LANDSCAPED ISLAND
NO SCALE



ROAD PROFILES
SCALE = HORZ : 1" = 50'
VERT : 1" = 5'

NOTE:
CUT EXISTING BITUMINOUS PAVING AS REQUIRED TO INSTALL PROPOSED CONC. CURB & GUTTER, REPAIR PAVING IN KIND.



ROGERS AVENUE

DETAIL - CHANNELIZING ISLAND
CENTER DRIVE @ ROGERS AVE.
SCALE 1" = 10'

Revised Sept 21, 1984

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: For Public Water, Public Sewerage, Storm Drainage and Roads Howard Co. Dept. of Public Works
Director Date 3-25-85
Chief, Bureau of Engineering Date 3/26/85

APPROVED: For Public Water and Public Sewerage Systems. Howard County Health Department
3/28/85
County Health Officer Date

APPROVED:
Howard Co. Office of Planning & Zoning
Chief, Division of Land Development and Zoning Administration Date
Planning Director Date 3-28-85

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By

ENGINEER'S CERTIFICATION
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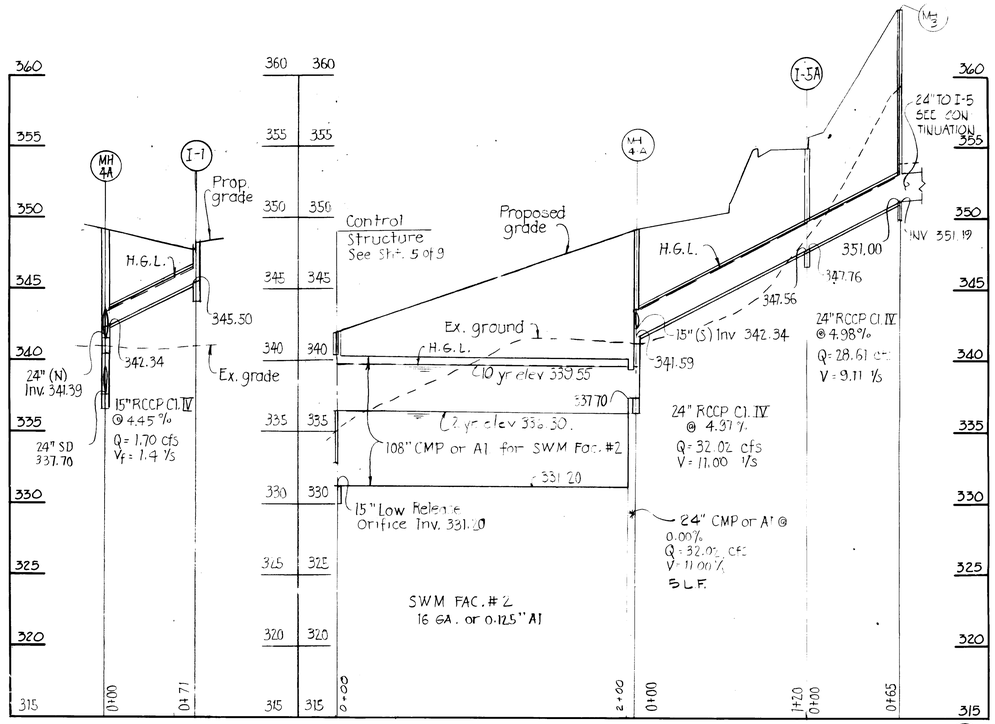
William G. Mach II 9/28/80
WILLIAM G. MACH II DATE

NORMANDY SHOPPING CENTER (PHASE I)
PAVING PROFILES AND DETAILS
2nd Election District
Tax Map Nos. 17 & 18
Scale: AS SHOWN
Howard County, Md.
Parcel Nos. 75 & 155
Date: 9-29-80

SHEET 3 OF 9
General Revisions 1/5/81
Revise per Ho. Co. Cmts. 3/3/81
Designed: BE
Drawn by: SRB
Checked by: BE

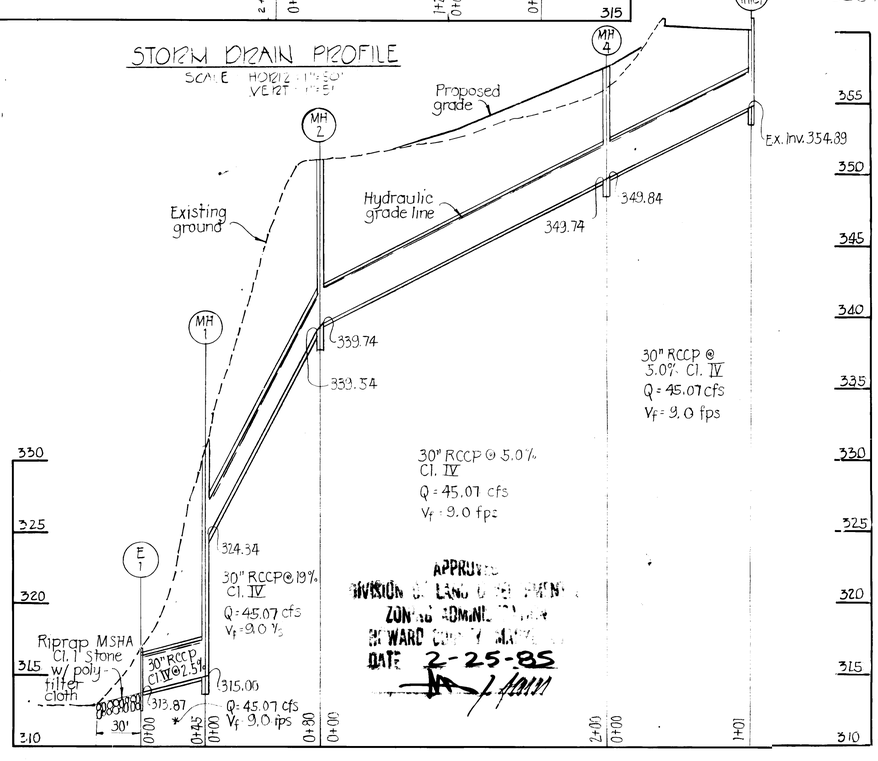
SDP-84-297

BRUNING ANE 1983-2

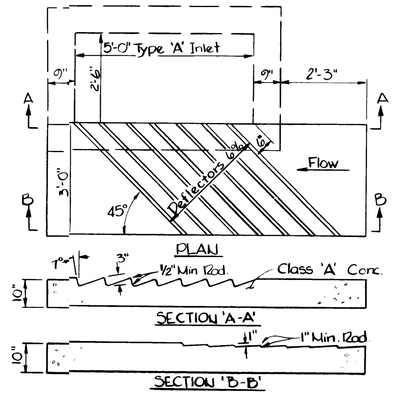


STORM DRAIN PROFILE

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

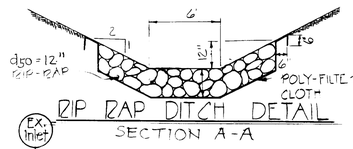


APPROVED
DIVISION OF LAND DEVELOPMENT
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 2-25-85



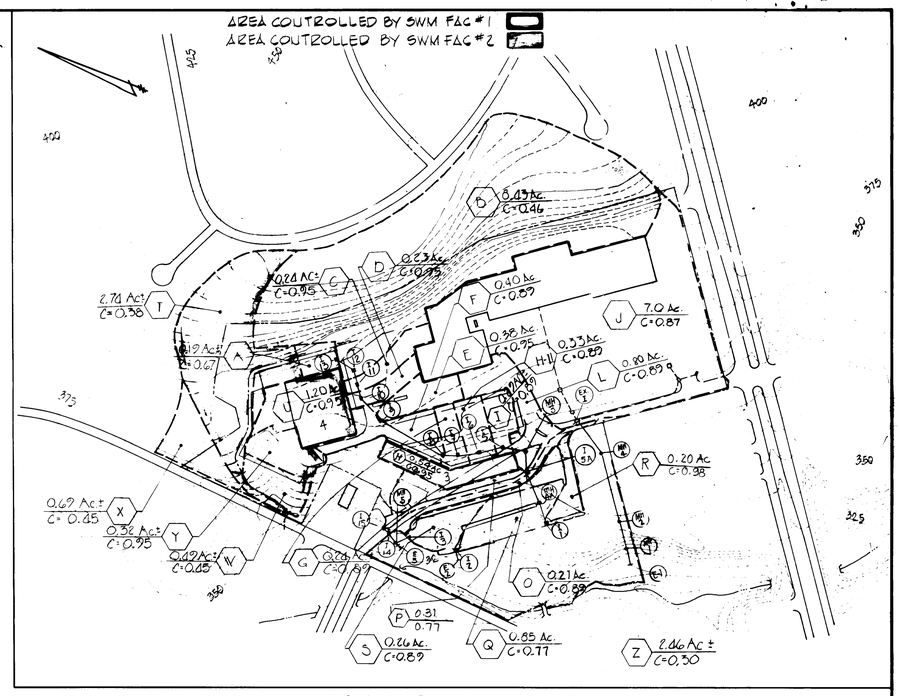
CURB TYPE INLET DEFLECTORS

RIP-RAP DITCH SECTION - 6' BOTTOM W/ 2:1 SLOPES
Q = 9.50 V = 5.85 fps, D = 0.75, S = 20 %



RIP RAP DITCH DETAIL

SECTION A-A



DRAINAGE AREA MAP

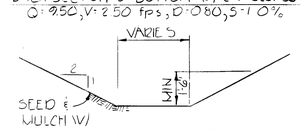
SCALE: 1" = 200'

STRUCTURE SCHEDULE					
STRUCT.	TYPE	TOP	INV. IN	INV. OUT	STD. NO.
E-1	C			313.87	SD-5.21
M-1	Precast	331.00	324.34	315.00	G 5.11
I-1	A-5	348.00	–	345.50	SD-4.01
M-2	Precast	351.00	332.74	332.54	G 5.11
I-5A	A-10 *	355.67	347.76	347.56	SD 4.02
E-2	C			320.91	SD 5.21
I-2	A-5	339.60	324.31	323.06	SD 4.01
I-3	A-10	335.67	330.30	330.30	SD 4.01
M-4A	Precast	340.25	341.59	337.70	G 5.11
M-3	Precast	363.80	351.19	351.00	G 5.11
I-5	S	365.15	351.66	351.66	SD-4.22
I-6	S	365.15	352.46	352.46	SD-4.22
I-7	S	365.15	353.51	353.26	SD 4.22
I-8	S	365.15	358.87	358.62	SD-4.22
I-9	A-5	372.60	364.56	364.31	SD-4.01
I-10	S	372.60	365.80	365.55	SD-4.22
I-11	S	372.60	366.93	366.68	SD-4.22
I-12	S	372.60	368.35	367.65	SD-4.22
I-13	S	372.60		369.00	SD-4.22
M-4 / M-5	Precast	357.00 / 331.00	349.84 / 328.24	349.74 / 328.04	G 5.11
E-3	C			327.90	SD-5.21
I-14	A-10*	333.60	328.63	328.38	SD-4.01
I-15	A-10*	333.60		328.80	SD-4.02

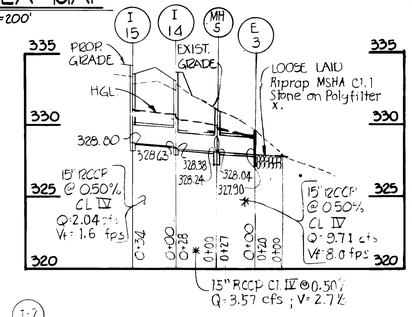
* INDICATES INLET WITH DEFLECTORS SD-4.03

DITCH SECTION 2' BOTTOM W/ 2:1 SLOPES
Q = 3.09 cfs, V = 3.83 fps D = 0.34, S = 6.70%

DITCH SECTION 3' BOTTOM W/ 2:1 SLOPES
Q = 9.50, V = 2.50 fps, D = 0.80, S = 1.0%



DITCH DETAIL



APPROVED: For Soil Erosion & Sediment Control.
Howard Co. Soil Conservation District
Signature 3-26-85 Date

Reviewed for Howard Conservation District and meets technical requirements.
Signature 3-20-85 Date

Revision - 6-7-85 - Storm Drain Profiles - AFT

Revised 9-21-84

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: For Public Water, Public Sewerage, Storm Drainage and Roads
Howard Co. Dept. of Public Works
Director 3-25-85 Date
Chief, Bureau of Engineering Date

APPROVED: For Public Water and Public Sewerage Systems.
Howard County Health Department
County Health Officer 2/28/85 Date

APPROVED:
Howard Co. Office of Planning & Zoning
Chief, Division of Land Development and Zoning Administration Date
Planning Director 3-28-85 Date

DEVELOPER'S CERTIFICATION
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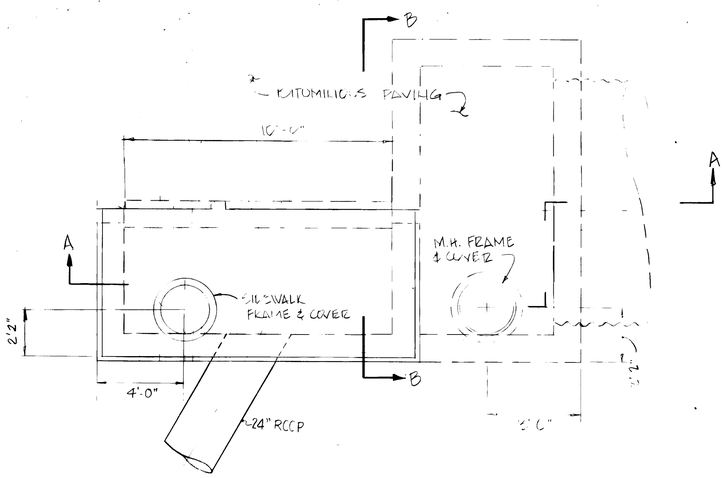
WILLIAM G. KASCH II 9/28/80 DATE

NORMANDY SHOPPING CENTER (PHASE II)
DRAINAGE AREA MAP - STORM DRAIN PROFILES
2nd Election District — Howard County, Md.
Tax. Map No. 17 | 18 — Parcel No. 75 | 155
Scale: AS SHOWN — Date: 9-27-80

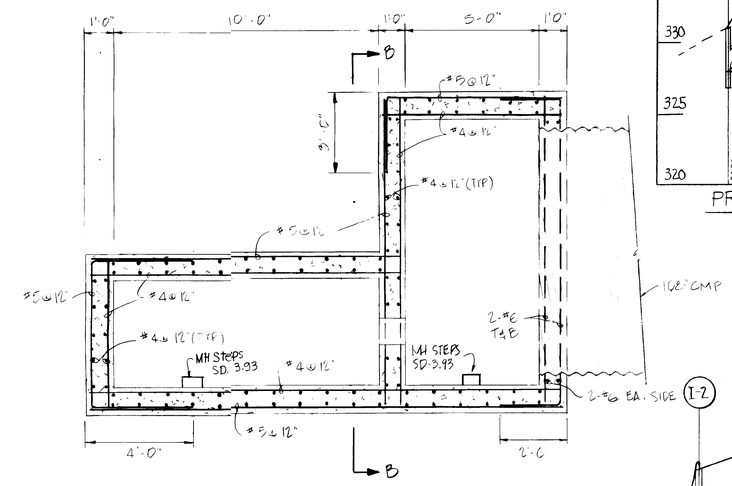
SHEET 4 OF 9
General Revisions 1/5/81
Revise per Ho. Co. Cmts. 3/23/81 11/20/84
Designed: J.L.A. / D.E.
Drawn by: J.T.D.
Checked by: B.E.

BRUNING ANE 1M32

SDP-84-297

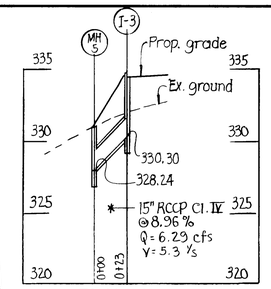


PLAN

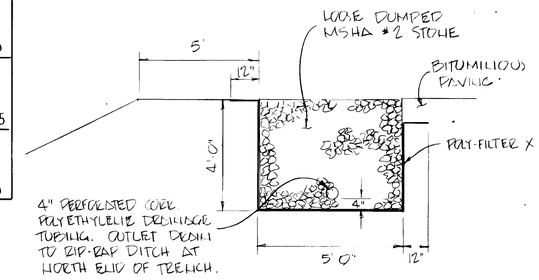


NOTE: SEE SECTION A-A FOR VARIATION IN WALL REINFORCEMENT.

SECTION 'C-C'

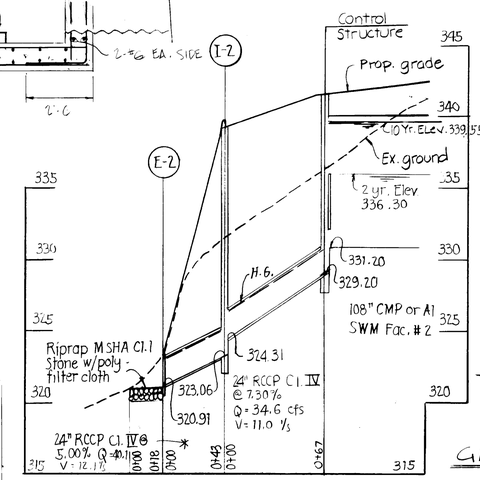


PROFILE

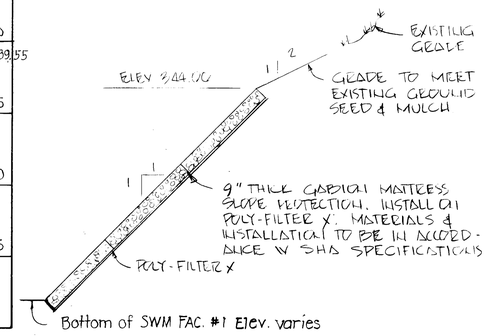


STONE STORAGE TRENCH

NO SCALE



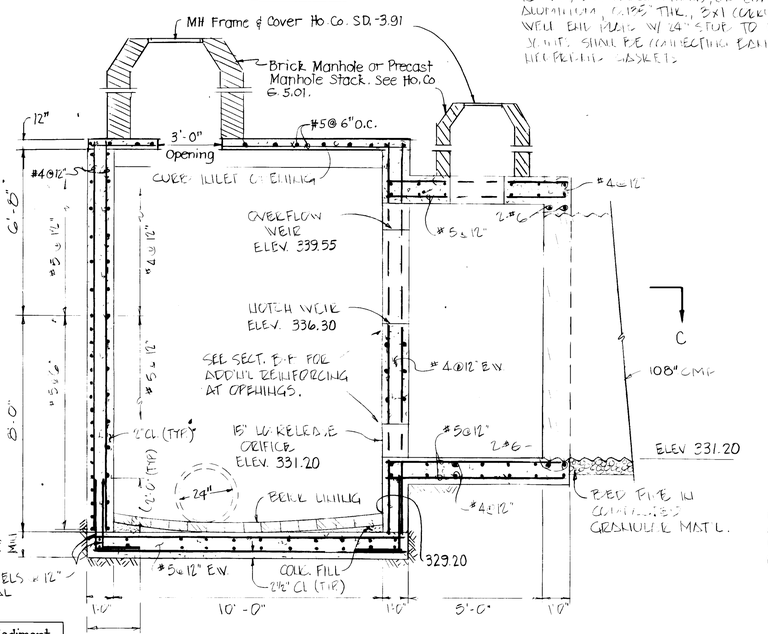
PROFILE



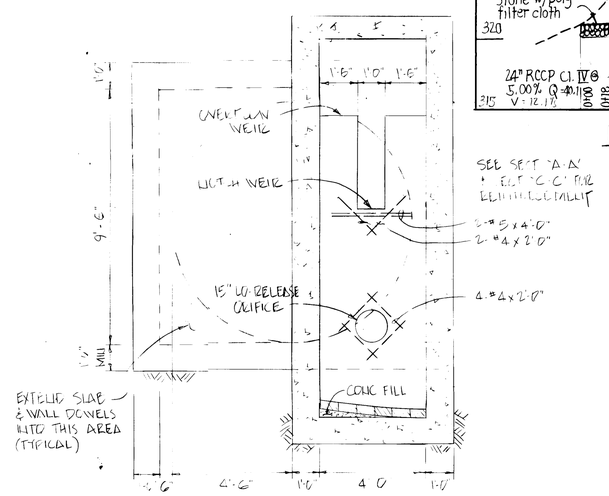
GABION SLOPE PROTECTION

NO SCALE

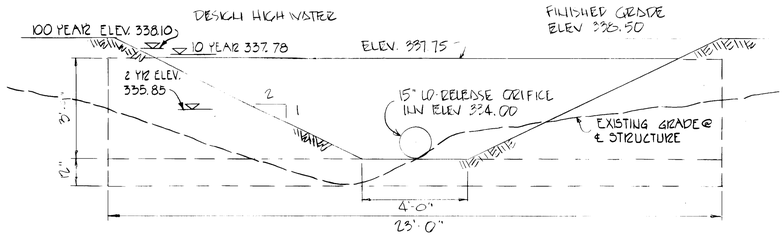
NOTE: PIPE FOR SWM FACILITY #2 SHALL BE BITUMINOUS COATED CORRUGATED STEEL, 16 ga., 3x1 CORRUGATIONS, OR CONSISTING OF ALUMINUM, 0.125" THK., 3x1 CORRUGATIONS. WELD END PLATE W/ 24" STUB TO INLET END WALL. SHALL BE CONNECTING BANDS W/ MEETING GASKETS



SECTION 'A-A'



SECTION 'B-B'



NOTE: STRUCTURE SHALL CONFORM TO DETAIL SD-5.21 FOR HEADWALL FOR 36" PIPE EXCEPT DIMENSIONS 'H' & 'L' SHALL BE AS SHOWN. MATERIALS & REINFORCING SHALL BE AS REQ'D BY DETAIL SD-5.21

OUTLET STRUCTURE SWM FACILITY #1

NO SCALE

CONTROL STRUCTURE — SWM FACILITY #2

SCALE 3/8" = 1'

APPROVED: For Soil Erosion & Sediment Control.
Howard Co. Soil Conservation District
Stephen L. Shuler 3/20/85
Signature Date
Reviewed for Howard Conservation District and meets technical requirements.
Signature Date 3-20-85

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 2-25-85

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: For Public Water, Public Sewerage, Storm Drainage and Roads, Howard County, Dept. of Public Works
Director Date 3-25-85
Chief, Bureau of Engineering Date

APPROVED: For Public Water and Public Sewerage Systems.
Howard County Health Department
County Health Officer Date 3/28/85

APPROVED:
Howard Co. Office of Planning & Zoning
Chief, Division of Land Development and Zoning Administration Date 3-28-85
Planning Director Date 3-28-85

DEVELOPER'S CERTIFICATION
I certify that all development and construction will be done according to this plan and any responsible personnel involved in the construction project will have a certificate of attendance at the Dept. of Natural Resources Training Program for the control of any sediment erosion before beginning the project.
The Grandwood Investment Co.
By: Jeanne P. Mayer

ENGINEER'S CERTIFICATION
I certify that this plan of 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.
William E. Rasch II 4/25/81
WILLIAM E. RASCH II DATE

Revised 9-21-84

NORMANDY SHOPPING CENTER (PHASE II)
STORM WATER MANAGEMENT DETAILS
2nd Election District
Tax. Map Nos. 17 & 18
Scale: 1" = 30'
Howard County, Md.
Parcel Nos. 75 & 155
Date: 4-27-81

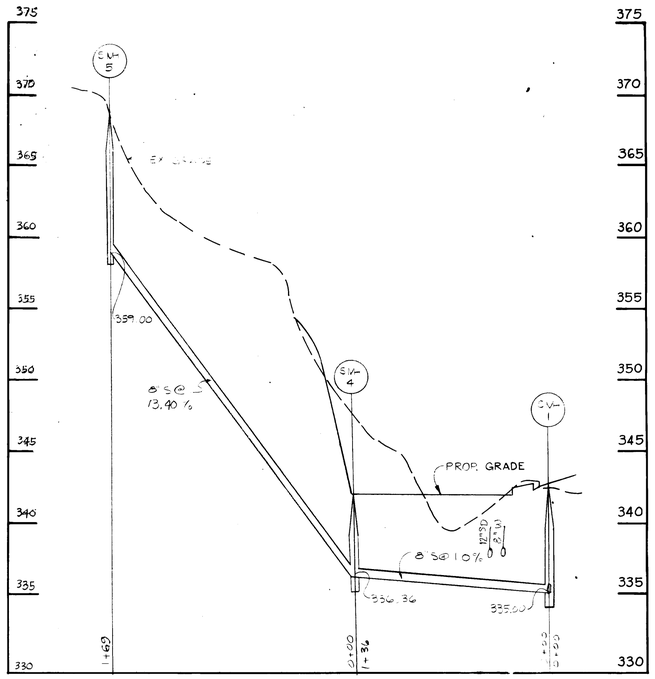
SHEET 5 OF 9

Designed: B.E.
Drawn by:
Checked by:

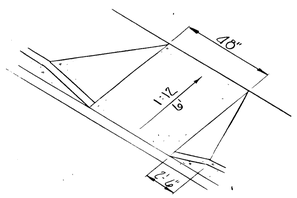
SDP-84-297

BRUNING ANE 1M3-2

APPROVED: For Soil Erosion & Sediment Control.
Howard Co. Soil Conservation District
Signature — Date 3/20/85
Reviewed for Howard Conservation District and meets technical requirements.
Signature — Date 3-20-85

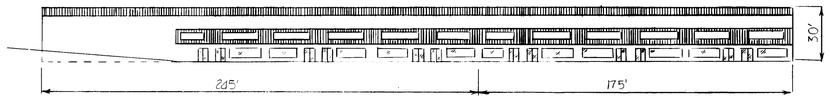


PRIVATE SEWER PROFILE
SCALE: Hor. 1" = 50' Vert. 1" = 5'



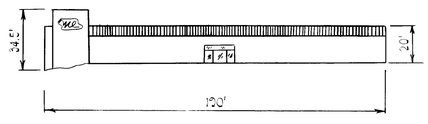
HANDICAPPED RAMP
NO SCALE

NOSE DOWN CURB DETAIL
NO SCALE



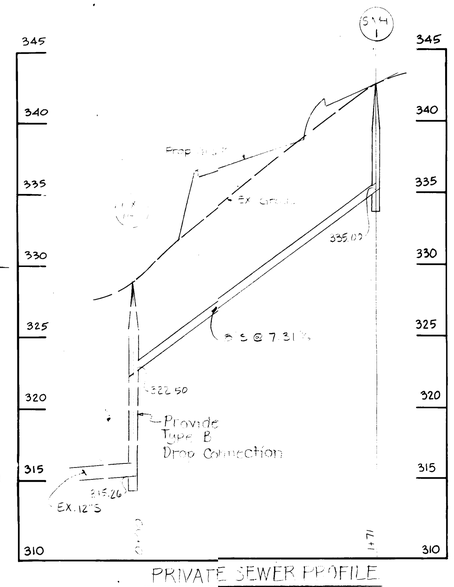
BUILDING 'B' - WEST BUILDING SCHEMATIC
NO SCALE

NOTES: (For Private Sewer)
1. All manholes shall be Ho. Co. Det. G.5.11
2. All sewer mains shall be C.S.P.X., RCCP, VCPX, ACP Class 2400 or PVC unless otherwise noted.

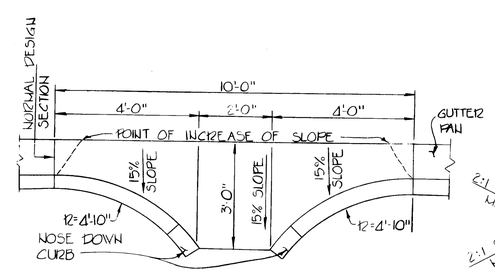


BUILDING 'A' - SOUTH BUILDING SCHEMATIC
NO SCALE

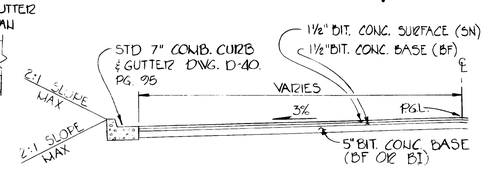
APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY MARYLAND
DATE 2-25-85



PRIVATE SEWER PROFILE
SCALE: Hor. 1" = 50' Vert. 1" = 5'

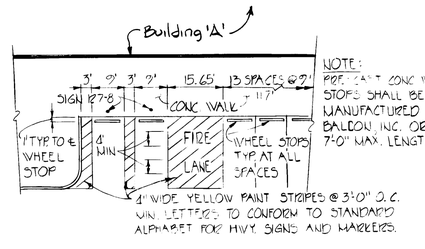


CURB OPENING DETAIL
NO SCALE



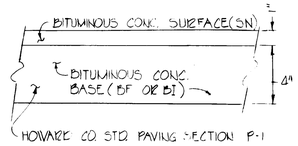
HOWARD CO. STD PAVING SECTION R3

TYPICAL DRIVE HALF SECTION
NO SCALE



NOTE: PRE-CAST CONC. WHEEL STOPS SHALL BE AS MANUFACTURED BY BALLON, INC. OR EQUAL, 7'-0" MAX. LENGTH.

HANDICAPPED ACCESS BUILDING 'A'
No Scale



HOWARD CO. STD. PAVING SECTION P-1

TYPICAL PARKING AREA PAVING SECTION
NO SCALE

Date	Revision	By
6-7-85	Revised Sewer Profile	ART

Revised 9-21-84

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 — 301/837-0194

APPROVED: For Public Water, Public Sewerage, Storm Drainage and Roads Howard Co., Dept. of Public Works.
Director — Date 3-25-85
Chief, Bureau of Engineering — Date 3/22/85

APPROVED: For Public Water and Public Sewerage Systems. Howard County Health Department
County Health Officer — Date 3/28/85

APPROVED: Howard Co. Office of Planning & Zoning
Chief, Division of Land Development and Zoning Administration — Date 3-28-85
Planning Director — Date 3-28-85

DEVELOPER'S CERTIFICATION
I certify that all development and construction will be done according to this plan and any responsible personnel involved in the construction project will have a certificate of attendance at the Dept. of Natural Resources training program for the control of any sediment erosion before beginning the project.

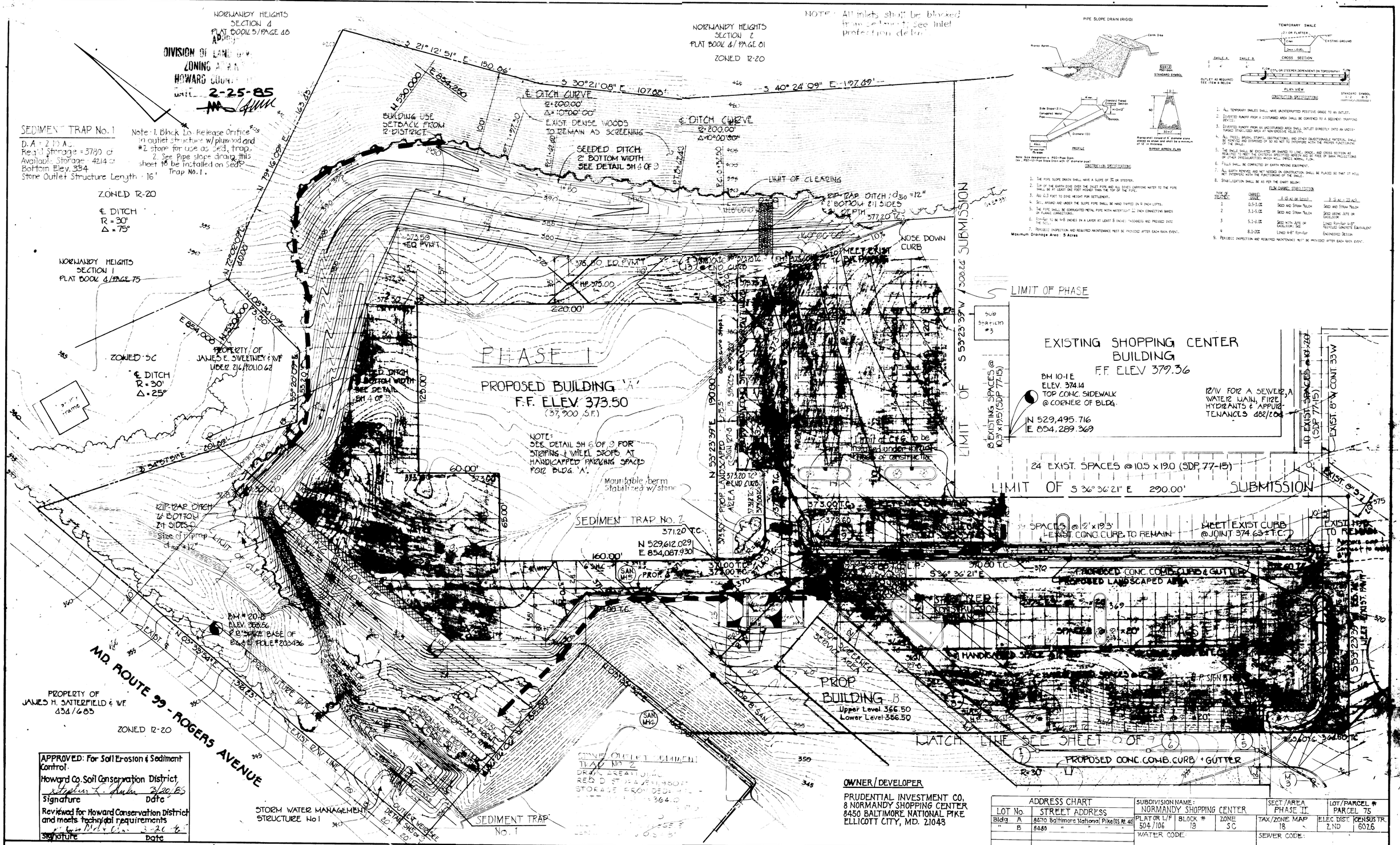
ENGINEER'S CERTIFICATION
I certify that this plan of erosion and sediment control represents a practical and workable plan based on my personal knowledge of this site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
WILLIAM G. MASCH II — DATE 3/20/85

NORMANDY SHOPPING CENTER (PHASE II)
PAVING PROFILES AND DETAILS AND SANITARY SEWER PROFILE
2nd Election District — Howard County, Md.
Tax. Map Nos. 17 & 18 — Parcel Nos. 75 & 155
Scale: AS SHOWN — Date: 9-29-80

SHEET 6 OF 9
General Revisions 1/5/81
Revised Paving Sect. 3/5/81
11/22/84
Designed: DE
Drawn by: SKB
Checked by: B.E.

SDP-84-297

BRUNING ANE 1M3-2



SEDIMENT TRAP No. 1

D.A. = 2.10 A.C.
Req'd Storage = 3780 cf
Available Storage = 4214 cf
Bottom Elev. 334
Stone Outlet Structure Length = 16'

Note: 1. Block Lo-Release Orifice in outlet structure w/plywood and #2 stone for use as sed. trap. 2. See Pipe slope drain this sheet to be installed on Sed. Trap No. 1.

APPROVED: For Soil Erosion & Sediment Control.
Howard Co. Soil Conservation District
Signature Date 3/20/85
Reviewed for Howard Conservation District and meets technical requirements
Signature Date

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: For Public Water, Public Sewerage, Storm Drainage and Roads, Howard County, Dept. of Public Works
Director Date
Chief, Bureau of Engineering Date 3/22/85

APPROVED: For Public Water and Public Sewerage Systems. Howard County Health Department
County Health Officer Date 3/22/85

APPROVED: Howard Co. Office of Planning & Zoning
Chief, Division of Land Development and Zoning Administration Date 3/28/85
Planning Director Date

DEVELOPER'S CERTIFICATION
I certify that all development and construction will be done according to this plan and any responsible personnel involved in the construction project will have a certificate of attendance at the Dept. of Natural Resources Training program for the control of any sediment erosion before beginning the project. The required training will be provided by Joanne R. Mosley, Jr. Author

ENGINEER'S CERTIFICATION
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.
William G. Pasch II 2-22-85
WILLIAM G. PASCH II DATE

OWNER/DEVELOPER
PRUDENTIAL INVESTMENT CO.
8 NORMANDY SHOPPING CENTER
8450 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MD. 21043

ADDRESS CHART			SUBDIVISION NAME: NORMANDY SHOPPING CENTER			SECT./AREA PHASE II	LOT/PARCEL # PARCEL 75
LOT No.	STREET ADDRESS		PLAT OR L/F 504/106	BLOCK # 19	ZONE SC	TAX/ZONE MAP 18	ELEC. DIST. 2ND / CENSUS TR. 6026
Bldg. A	8470 Baltimore National Pike (US Rt. 40)		WATER CODE:			SEWER CODE:	
" B	8480 " " "						

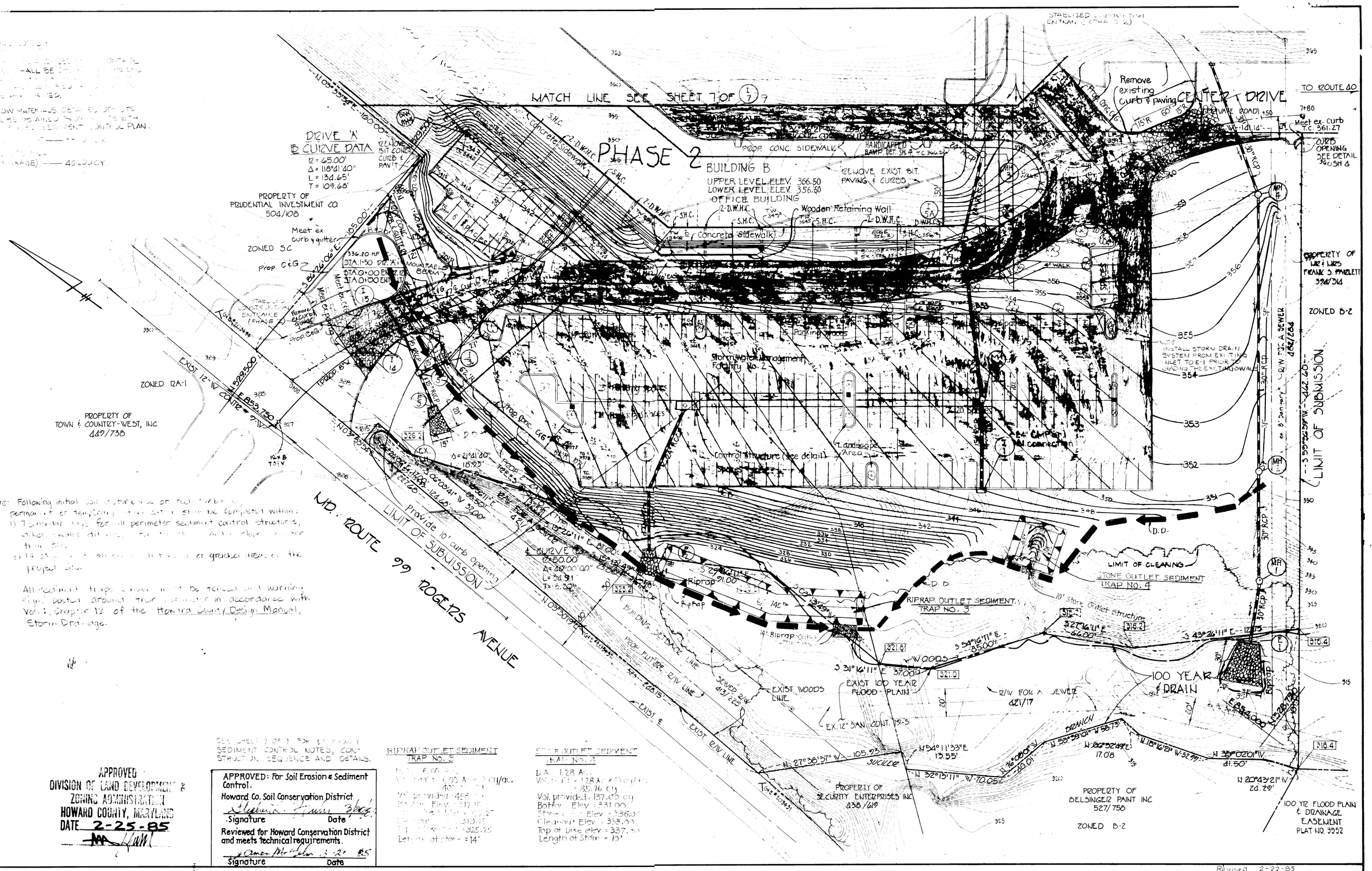
Revised 2-22-85

NORMANDY SHOPPING CENTER (PHASE II)
EROSION AND SEDIMENT CONTROL PLAN
2nd Election District
Tax Map Nos. 17 & 18
Scale: 1"=50'
Howard County, Md.
Parcel Nos. 75 & 155
Date: 1-1-85

SHEET 7 OF 9

General Revisions 1/5/01
Convert to Md. State Coord. Grid - revise for Ho. Co. Cmts. 3/5/01
11/20/01
Designed: D.E.
Drawn by: S.R.D.
Checked by: D.E.

SDP-84-247



Note: Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within:
1) 7 calendar days for all perimeter sediment control structures, dikes, swales, ditches, perimeter slopes, and slopes greater than 3:1.
2) 14 days for all other disturbances or graded areas on the project site.

All sediment traps shall be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12 of the Howard County Design Manual, Storm Drainage.

SEE SHEET 7 OF 9 FOR EROSION & SEDIMENT CONTROL NOTES, CONSTRUCTION SEQUENCE AND DETAILS.

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 2-25-85

APPROVED: For Soil Erosion & Sediment Control.
Howard Co. Soil Conservation District
Signature Date 3/6/85
Reviewed for Howard Conservation District and meets technical requirements.
Signature Date 3-21-85

RIPRAP OUTLET SEDIMENT TRAP NO. 3
D.A. = 6.00 Ac.
Vol. Req'd = 6.00 Ac. x 2 cy/ac. = 40 cy
Vol. provided = 458 cy
Bottom Elev. = 317.15
Stone Elev. = 322.25
Cleanout Elev. = 319.15
Top of bike elev. = 325.25
Length of stone = 14'

STONE OUTLET SEDIMENT TRAP NO. 4
D.A. = 1.28 Ac.
Vol. Req'd = 1.28 Ac. x 47 cy/ac. = 85.76 cy
Vol. provided = 137.00 cy
Bottom Elev. = 331.00
Stone Elev. = 336.00
Cleanout Elev. = 333.00
Top of bike elev. = 337.00
Length of Stone = 10'

Revised 2-22-85

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: For Public Water, Public Sewerage, Storm Drainage and Roads, Howard County, Dept. of Public Works
Director Date
Chief, Bureau of Engineering Date 3/4/85

APPROVED: For Public Water and Public Sewerage Systems. Howard County Health Department
County Health Officer Date 3/28/85

APPROVED: Howard Co. Office of Planning & Zoning
Chief, Division of Land Development and Zoning Administration Date 3-28-85
Planning Director Date

DEVELOPER'S CERTIFICATION
I certify that all development and construction will be done according to this plan and any responsible personnel involved in the construction project will have a certificate of attendance at the Dept. of Natural Resources training program for the control of any sediment erosion before beginning the project.
The Prudential Investments G.
By: James L. Myers Jr. Partner

ENGINEER'S CERTIFICATION
I certify that this plan of 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.
William G. Rasch II 2-22-85
WILLIAM G. RASCH II DATE

NORMANDY SHOPPING CENTER (PHASE II)
EROSION & SEDIMENT CONTROL PLAN
2nd Election District
Tax. Map Nos. 17 & 18
Scale: 1" = 30'
Howard County, Md.
Parcel Nos. 75 & 155
Date: 2-22-85

SHEET 8 OF 9
General Revisions 1/5/81
Convert to Md. State Coord. Grid - revise per Ho. Co. Cmts. 3/3/81
Designed: B.E.
Drawn by: S.R.B.
Checked by: B.E.

SDP-84-297

BRUNING ANE 1M3-2

SEDIMENT CONTROL NOTES

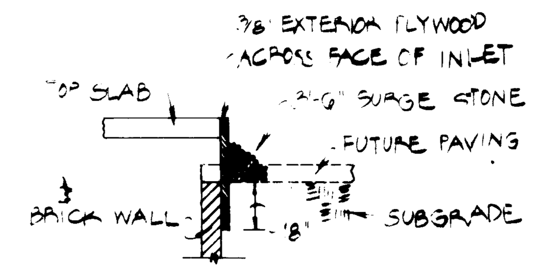
1. Specifications ... the U.S.D.A. Soil Conservation ... Standards and Specifications for ... and Sediment control in developing areas.
2. The developer ... 24 hours prior to beginning any construction ... (992-2435 or 992-2436)
3. All sediment control structures to remain in place until permission for their removal has been obtained from the Howard County ... Inspections and Permits (992-2435 or 992-2436).
4. All graded areas shall be stabilized in accordance with the following requirements.
   1. Site Preparation.
      A. Harrow or disc the areas to be seeded with the following materials at the specified rate to a depth of 3".
         1) Pulverized limestone at 90 lbs / 1000 sf.
         2) Commercial fertilizer 10-6-4 at 30 lbs / 1000 sf.
   2. Seeding.
      A. Sow the following seed mixture at the specified rate with a mechanical spreader.
         1) Temporary - Italian or Perennial Ryegrass (1 lb / 1000 sf.)
         2) Permanent - (Slopes Flatter than 3:1) - Common Kentucky Bluegrass 40% Merion Bluegrass 40% Red Fescue 20% (3 lbs / 1000 sf) Slopes steeper than 3:1 - Ground Cover.
      B. The seeded area shall be raked with a York Rake (minimum of 2 passes) covered and compacted with a cultipacker or other approved method.
   3. Mulching.
      A. Seeded areas shall be uniformly mulched immediately after seeding with unweathered small grain straw at the rate of 1½ to 2 tons / acre.
      B. Tie mulch down with liquid asphalt at 0.1 gal./s.y. or emulsified asphalt at 0.04 gal./s.y.
   4. Sodding.
      A. Apply 10-6-4 fertilizer at 1000 lbs / acre (25 lbs / 1000 sf)
      B. Apply ground agricultural limestone at 2000 lbs / acre (90 lbs / 1000 sf)
      C. Incorporate both lime and fertilizer into soil by discing ... after incorporation.
      D. Lay sod to a tight fit. Roll to insure contact with underlying soil. Water as necessary for first two weeks (in summer) to insure establishment.
   5. Ground Cover:
      A. Crown vetch (innoculated) at 15 lbs. / acre and Kentucky 31 Tall Fescue (certified) at 40 lbs / acre. (2:1 maximum slope). Mulch in accordance w/3 above.
5. The contractor shall place plywood braced with sand bags at the inlet end of unfinished drainpipes at the end of each work day.
6. All stockpiles shall be protected with straw bale dikes, silt fences, or other approved sediment control devices.

CONSTRUCTION SEQUENCE

1. Obtain Grading Permit.
2. Install all Sediment Control Devices for Phase 1.
3. Construct proposed storm drain from existing inlet to E-1.
4. START PHASE I
   - a. ~~Construct ... and sodded~~ ditches.
   - b. ~~...~~
   - c. Construct storm drain from I-13 to I-8 and install 80 l.f. of RCP for outfall and provide rip-rap and provide inlet protection.
   - d. Construct water and sewer mains.
   - e. Construct Building A.
   - f. Construct storm water storage trench.
   - g. Start paving travelway, parking area and curbs and gutters.
   - h. Stabilize disturbed areas not to be paved by permanent seeding.
   - i. Convert sediment trap No. 1 to storm water management structures only after contributing drainage area is permanently stabilized.
   - j. Remove sediment control devices as approved by Sediment Control Inspector.
5. START PHASE 2
   - a. Install all sediment control devices
   - b. Close Center Drive to traffic. Install stabilized construction entrances and mountable berm.
   - c. Start grading operation.
   - d. Construct remaining storm drain as shown on plan and provide inlet protection.
   - e. Construct storm water management Facility No. 2
   - f. Construct water and sewer mains.
   - g. Construct Building B
   - h. Start paving travelway, parking area, curb and gutters.
   - i. Stabilize disturbed areas not to be paved by permanent seeding.
   - j. Remove sediment control devices as approved by Sediment Control Inspector.

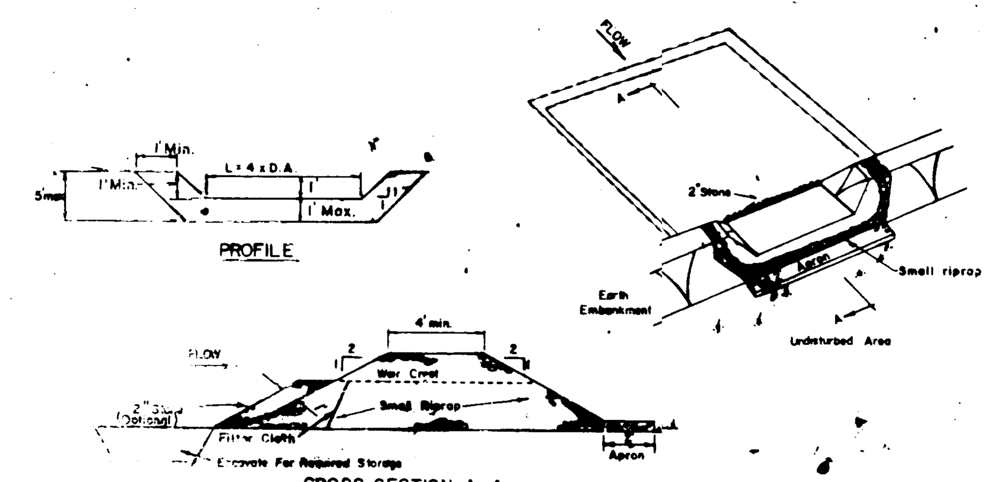
APPROVED: For Soil Erosion & Sediment Control
Howard Co. Soil Conservation District
Signature — Date 3/20/85
Reviewed for Howard Conservation District and meets technical requirements.
Signature — Date

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 2-25-85



TYPE "A" INLET PROTECTION DETAIL

STONE OUTLET SEDIMENT TRAP V

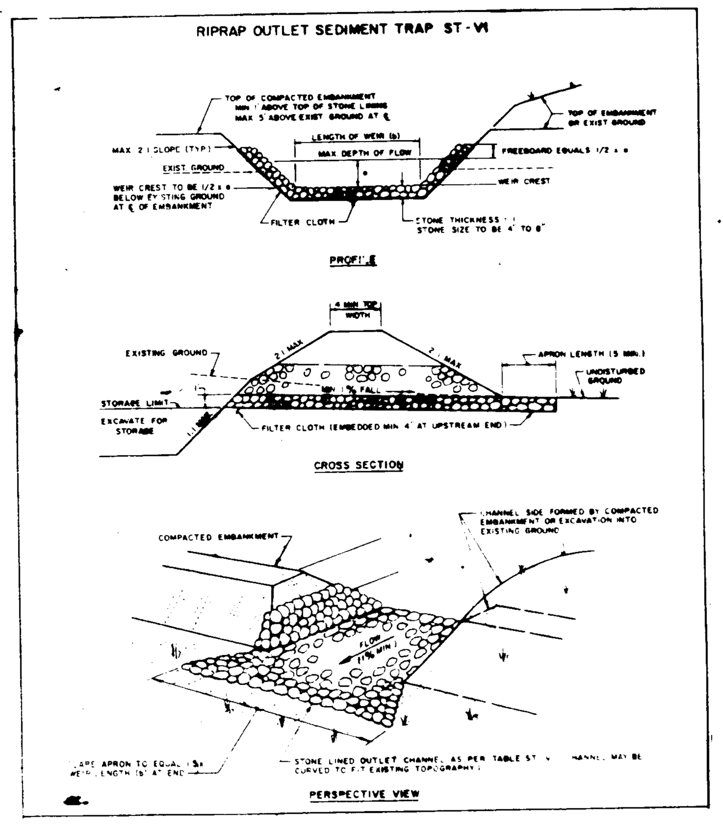


OPTION: A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.

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 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 that erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

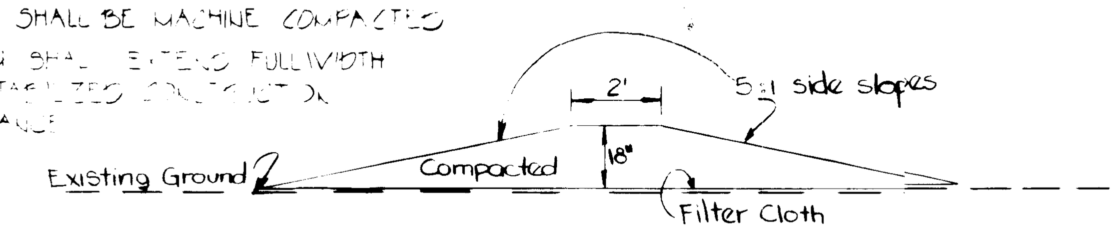
RIPRAP OUTLET SEDIMENT TRAP ST-VI



CONSTRUCTION SPECIFICATIONS FOR ST-VI

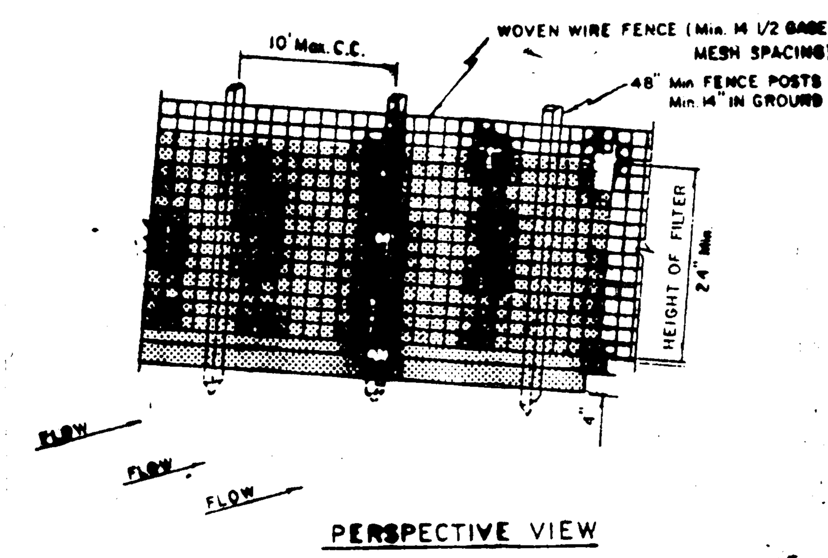
1. The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots or other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. 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.

CONSTRUCTION NOTES
1. BERM SHALL BE MACHINE COMPACTED
2. BERM SHALL EXTEND FULL WIDTH OF STABILIZED CONSTRUCTION ENTRANCE

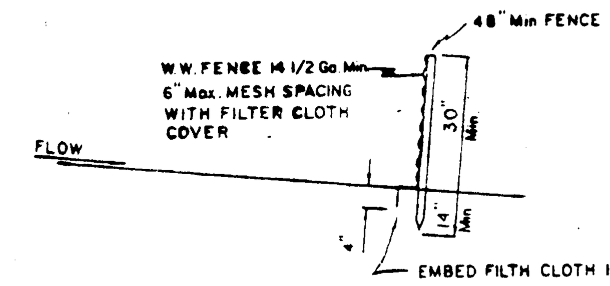


MOUNTABLE BERM

SILT FENCE DETAIL



PERSPECTIVE VIEW



SECTION

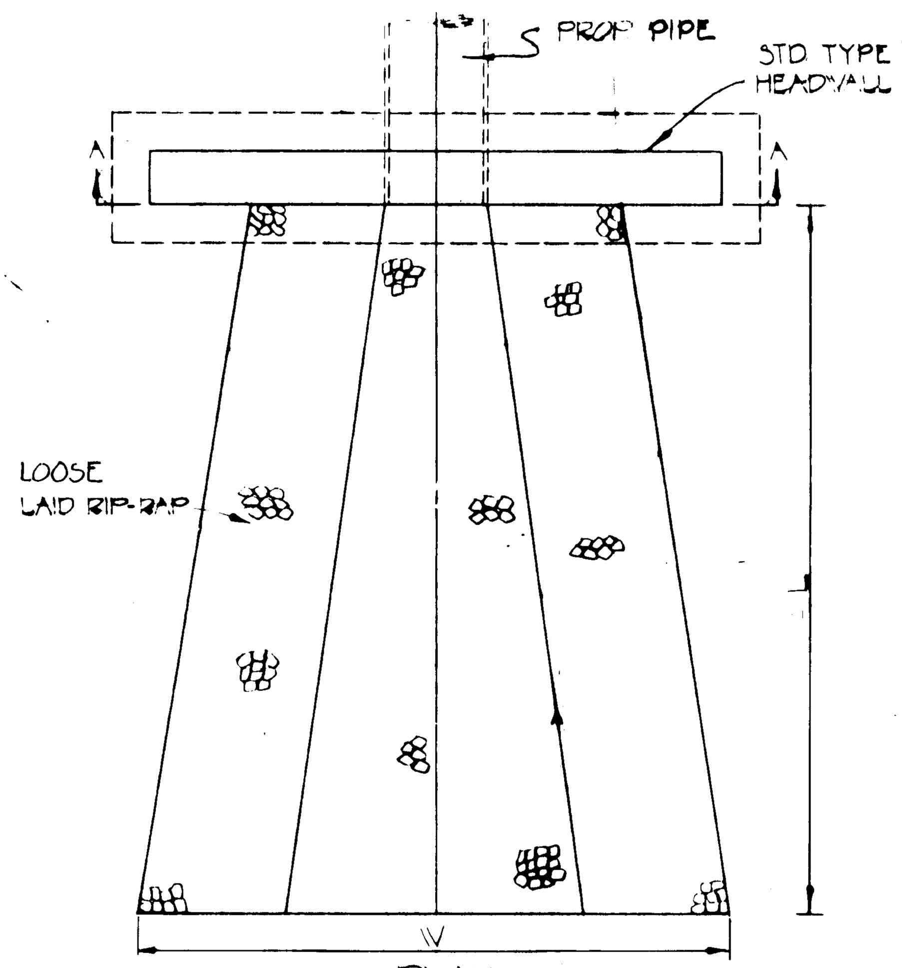
CONSTRUCTION NOTES

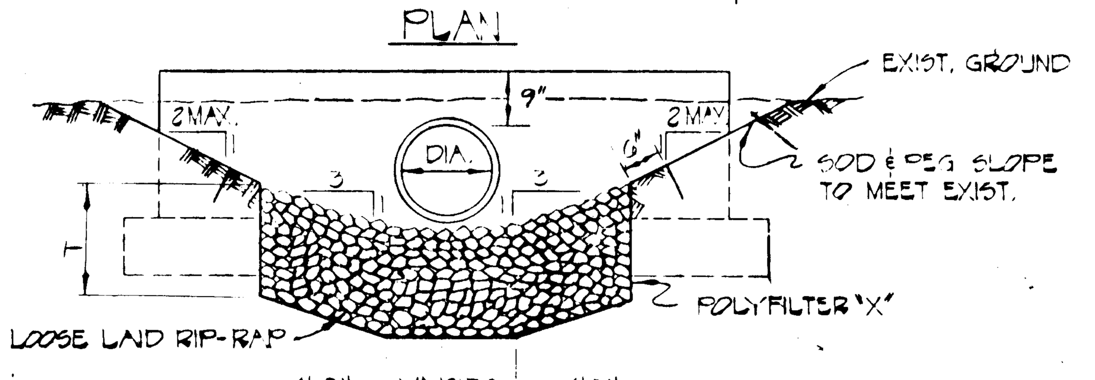
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH WIRE TIES SPACED EVERY 24" AT TOP AND MID SECTION
3. SEE STEP BY STEP PROCEDURE ON BACK OF THIS SHEET.

POSTS: STEEL EITHER T or U TYPE OR 2" HARDWOOD
FENCE: WOVEN WIRE, 14 1/2 Ga. Max. 6" MESH OPENING
FILTER CLOTH: FILTER X, MIRIFI 100X, LAUREL EROSION CONTROL CLOTH, BIDIM, POLYFILTER X OR EQUAL

STANDARD SYMBOL —o—o—o—

* DRAINAGE AREA LESS THAN 1/2 ACRE

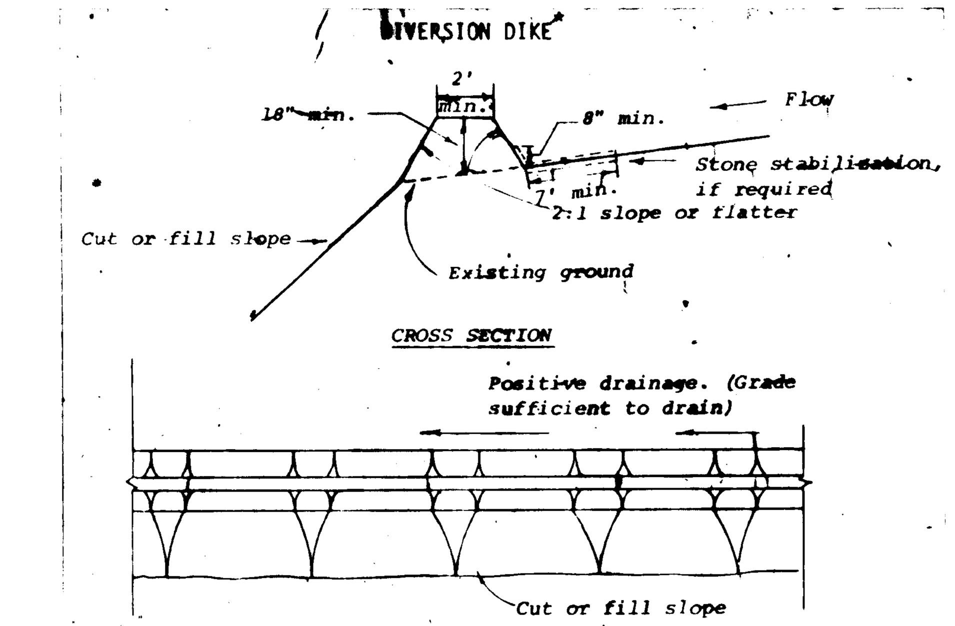




SECTION A-A

RIP-RAP OUTLET PROTECTION

DIVERSION DIKE*



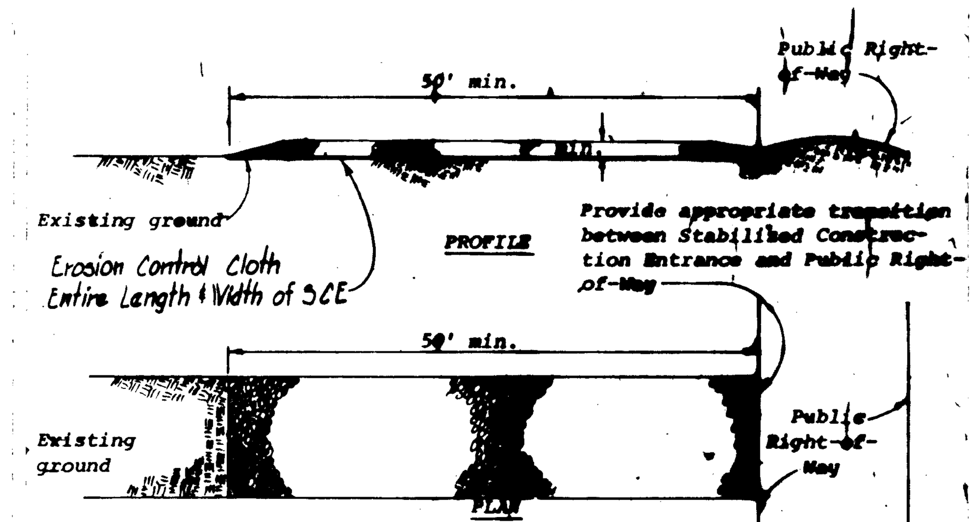
Construction Specifications

1. All dikes shall be machine compacted.
2. All diversion dikes shall have positive drainage to an outlet.
3. A. Diverted runoff from a protected or stabilized area shall outlet directly to an undisturbed stabilized area or into a level spreader or grade stabilization structure.
   B. Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as a sediment trap or a sediment basin or to an area protected by any of these practices.
4. Stabilization, as specified by the plans, shall be: (1) in accordance with Standard and Specifications for Grassed Waterway, and the area to be stabilized shall be the channel (flow area); or (2) the flow area shall be lined with stone that meets MSHA size No. 2 or AASHTO M43 size No. 2 or 24 which is placed in a 3 inch thick layer and pressed into the soil. The area covered by the stone shall be as shown on the drawing above.
5. Periodic inspection and required maintenance shall be provided.

Standard Symbol —DD—

* Drainage area less than 5 acres

STABILIZED CONSTRUCTION ENTRANCE
(not to scale)



Construction Specifications

1. Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M43, size No. 2 (2-1/2" to 1-1/2"): Use crushed stone.
2. Length - As effective, but not less than 50 feet.
3. Thickness - Not less than eight (8) inches.
4. Width - Not less than full width of all points of ingress or egress.
5. Washing - When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sand bags, gravel, boards or other approved methods.
6. 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.

Standard Symbol SCE

RIP-RAP SCHEDULE

STRUCT	L	W	T	RIP-RAP
E-1	30'	33'	30"	SHA CLASS 1 #400 MAX
E-2	18'	20'	18"	SHA CLASS 1
E-3	20'	15"	12"	SHA CLASS 1

Revised 2-22-85

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: For Public Water, Public Sewerage, Storm Drainage and Roads Howard Co. Dept. of Public Works
Director — Date
Chief, Bureau of Engineering — Date 3/22/85

APPROVED: For Public Water and Public Sewerage Systems. Howard County Health Department
County Health Officer — Date 3/28/85

APPROVED: Howard Co. Office of Planning & Zoning
Chief, Division of Land Development and Zoning — Date 3-28-85
Planning Director — Date

DEVELOPER'S CERTIFICATION
I certify that all development and construction will be done according to this plan and any responsible personnel involved in the construction project will have a certificate of attendance at the Dept. of Natural Resources training program for the control of any sediment erosion before beginning the project.

ENGINEER'S CERTIFICATION
I certify that this plan of 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 Howard Soil Conservation District.
WILLIAM G. RASCH II — DATE 2/21/85

NORMANDY SHOPPING CENTER (PHASE II)
EROSION & SEDIMENT CONTROL DETAILS
2nd Election District — Howard County, Md.
Tax. Map Nos. 17 & 18 — Parcel Nos. 75 & 155
Scale: AS SHOWN — Date: 2-22-85

SHEET 9 OF 9
General Revisions 1/3/84
Revise per Ho Co. Cmts. 3/3/84 11/20/84
Designed: B.E.
Drawn by: S.R.B.
Checked by: B.E.

SDP-84-297

BRUNING ANE 1M3-2