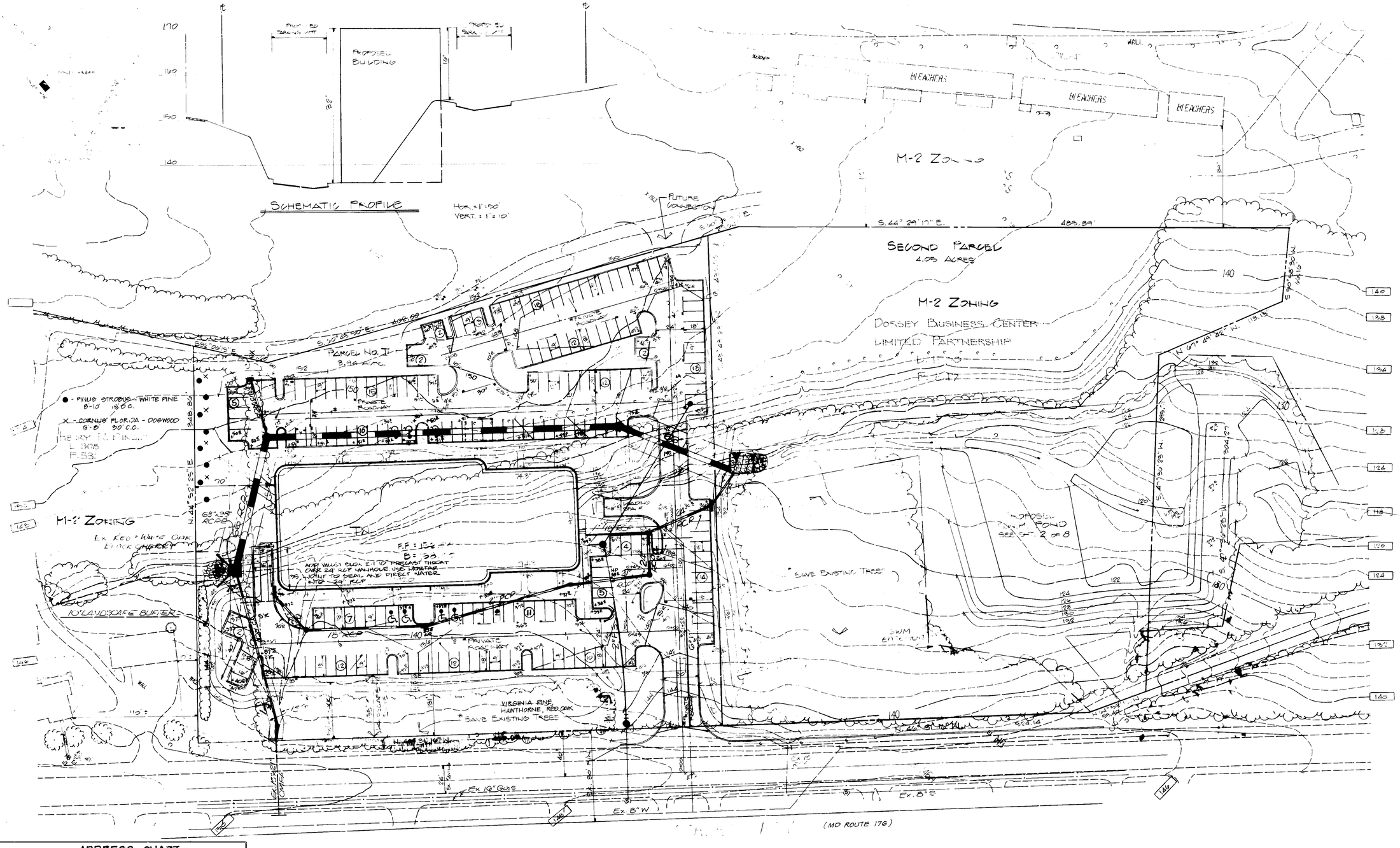


SITE ANALYSIS

1. - AREA OF PARCEL = 3.94 ACRES OR 171,626.82 SQ.FT.
2. - PRESENT ZONING = M-2
3. - FLOOR SPACE (OFFICE/WAREHOUSE)
   27,188 ft²/LEVEL × 2 = 54,376 ft² TOTAL AREA
4. - NUMBER OF PARKING SPACES
   REQ.: 1 SPACE/1,000 SQ. FEET, OFFICE & WAREHOUSE
   TOTAL BUILDING = 250
   250 × 7/10 = 175
   175 + 26 = 201 REQ'D.
   PROVIDED = 201 (4 REQ'D. HANDICAP)
5. - DEED REFERENCE -
   LIBER - 415
   FOLIO - 272
   LIBER - 1300
   FOLIO - 547
6. - OPEN SPACE :
   20% MIN. REQ. = 34,325 ft²
   PROVIDED = 146,115 ft² = 3.82 ac.
7. - FOR HANDICAP RAMP DETAILS SEE SHEET 2 OF 8
8. - PARKING AREA = 83,040 ft²
   PARKING GREEN AREA 4,500 ft²
   % GREEN SPACE = 5.5 %

6-17-85

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
PARCEL II	6717 DORSEY ROAD

SUBDIVISION NAME			SECT./AREA	LOT/PARCEL #
DORSEY BUSINESS CENTER			—	PARCEL 2
PLAT # OR L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELEC. DIST.	CENSUS TR.
419 / 272	24	M-2	37	1	6012
WATER CODE		SEWER CODE			

APPROVED: For Public Water, Public Sewerage & Storm Drainage Systems and Public Roads
HOWARD COUNTY DEPT. OF PUBLIC WORKS
Director — Date
Chief, Bureau of Engineering — 7-30-85 Date

APPROVED: For Public Water & Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
Joyce M. Boyd M.D./mm — 7/29/85 Date
County Health Officer

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
Planning Director — 7-30-85 Date
Chief, Div. of Land Development & Public Facilities Planning — 7-29-85 Date

OWNER:
DORSEY BUSINESS CENTER LTD. PARTNERSHIP
7223 PARKWAY DRIVE
HANOVER, MARYLAND 21076
PHONE: (301) 796-4446

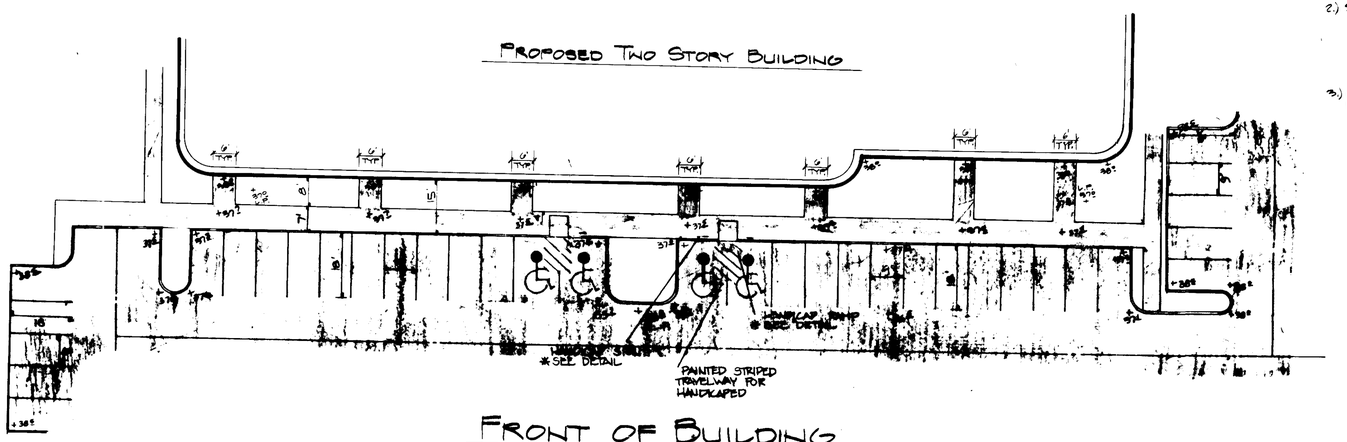
No.	REVISION	DATE	BY
1)	REVISED HANDICAP RAMP & DRIVE LOCATION	6-27-85	JEB
2)	ADDED LOADING DOCK ; REVISED PARKING	8-14-86	HWC

GREENHORNE & O'MARA, INC.
ENGINEERS • ARCHITECTS • PLANNERS • SURVEYORS
2 RESEARCH PLACE ROCKVILLE, MD. 20850
(301) 948 - 0900
GREENBELT, MD • ANNAPOLIS, MD • FAIRFAX, VA • NO. HUNTINGDON, PA

SITE DEVELOPMENT PLAN
DORSEY BUSINESS CENTER
PARCEL II

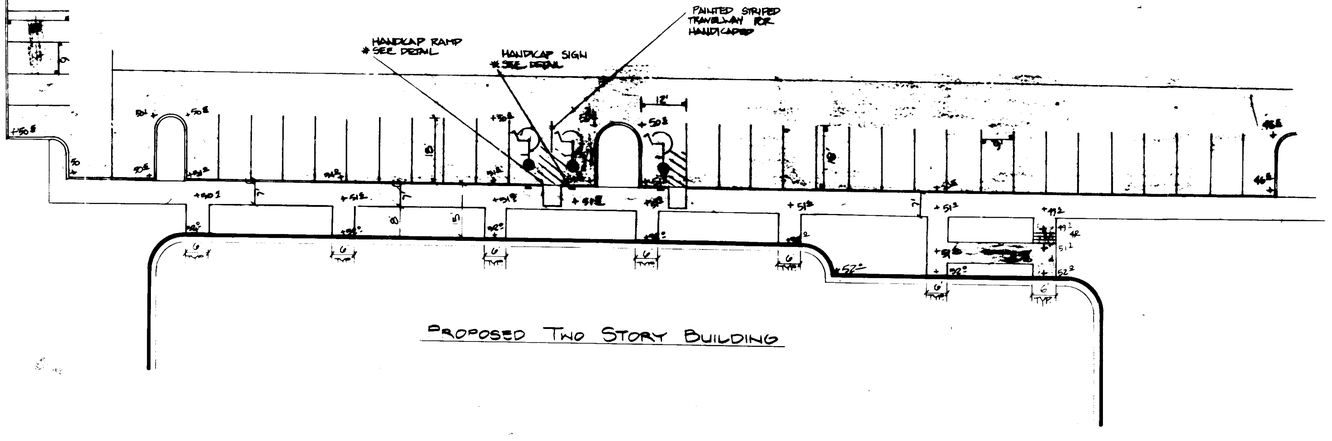
DESIGN: JEB	SCALE: 1" = 40'
DRAWN: JEB/GGD	SHEET: 1 OF 9
CHECKED: SHM	
DATE: MAR. '85	JOB No. — FILE No. 9-1112

SDP-85-154



FRONT OF BUILDING

SCALE 1" = 20'



REAR OF BUILDING

SCALE 1" = 20'

* NOTES :

1.) ALL REFERENCED MATERIAL WAS TAKEN FROM:
- ST. OF MD. STANDARD HIGHWAY SIGNS BOOKLET MD. DEPT. OF TRANSPORTATION, P.O. BOX 717 707 NORTH CALVERT ST. BALTIMORE, MD. 21203

2.) STANDARD COLORS
- LEGEND + BORDER - GREEN
- WHITE SYMBOL ON BLUE BACKGROUND
- BACKGROUND - WHITE

3.) ONE SIGN IS REQUIRED FOR EACH PARKING SPACE

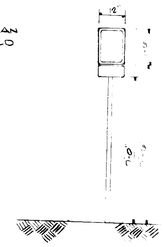
HANDICAP SIGN DETAIL

NOT TO SCALE

* 1.) "RESERVED PARKING" SIGN SETS INCLUDE A 12"x18" RESERVED PARKING SIGN WITH A 12"x6" SUPPLEMENTAL SIGN DESIGNATING THE FINE BELOW IT. THE ADDITIONAL SIGN INTENDED TO RESERVE THE PARKING SPACE ONLY FOR PERSONS WITH AN OFFICIAL PERMIT OR HANDICAP PLATE SHOULD BE NO LOWER THAN 7'-0".

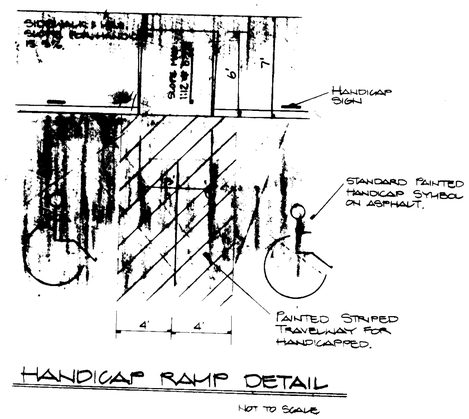
2.) NORMAL MOUNTING OF SIGN(S) OR SET(S) OF SIGNS SHALL BE ON A STEEL POST PLACED IN THE GROUND ADJACENT TO THE PARKING SPACE. THE BOTTOM OF THE SIGN OR SET SHALL BE SEVEN FEET SIX INCHES ABOVE THE GRADE IN THE PARKING SPACE. THE SUPPLEMENTAL SIGN SHOULD BE NO LOWER THAN 7'-0".

3.) NORMAL MOUNTING OF SIGN(S) OR SET(S) OF SIGNS SHALL BE ON A STEEL POST PLACED IN THE GROUND ADJACENT TO THE PARKING SPACE.



TYPICAL HANDICAP SIGN DETAIL

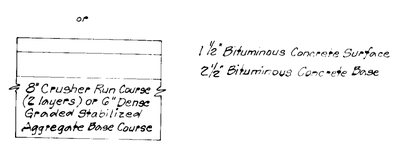
NOT TO SCALE



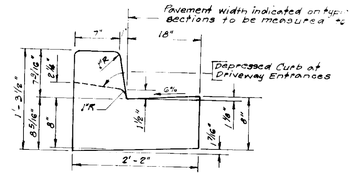
HANDICAP RAMP DETAIL

NOT TO SCALE

TYPICAL PAVING SECTION (HCBPW P2)



COMBINATION CURB & GUTTER DETAIL (HCDPW R-3.01)



STANDARD 7" COMBINATION CURB & GUTTER

6-17-85

STATE OF MARYLAND — Bruce D. Bolte, Jr. — No. 12232 — REGISTERED PROFESSIONAL ENGINEER

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE & STORM DRAINAGE SYSTEMS & PUBLIC ROADS HOWARD COUNTY DEPT. OF PUBLIC WORKS		APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT		APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING	
DIRECTOR	1-21-86 DATE	COUNTY HEALTH OFFICER	2/22/85 DATE	PLANNING DIRECTOR	DATE
CHIEF, BUREAU OF ENGINEERING	7-24-85 DATE			CHIEF, DIV. OF LAND DEVELOPMENT & ZONING ADMINISTRATION	7-30-85 DATE

OWNER:
DORSEY BUSINESS CENTER LTD. PARTNERSHIP
7223 PARKWAY DRIVE
HANOVER, MARYLAND 21076
PHONE: (301) 796-4446

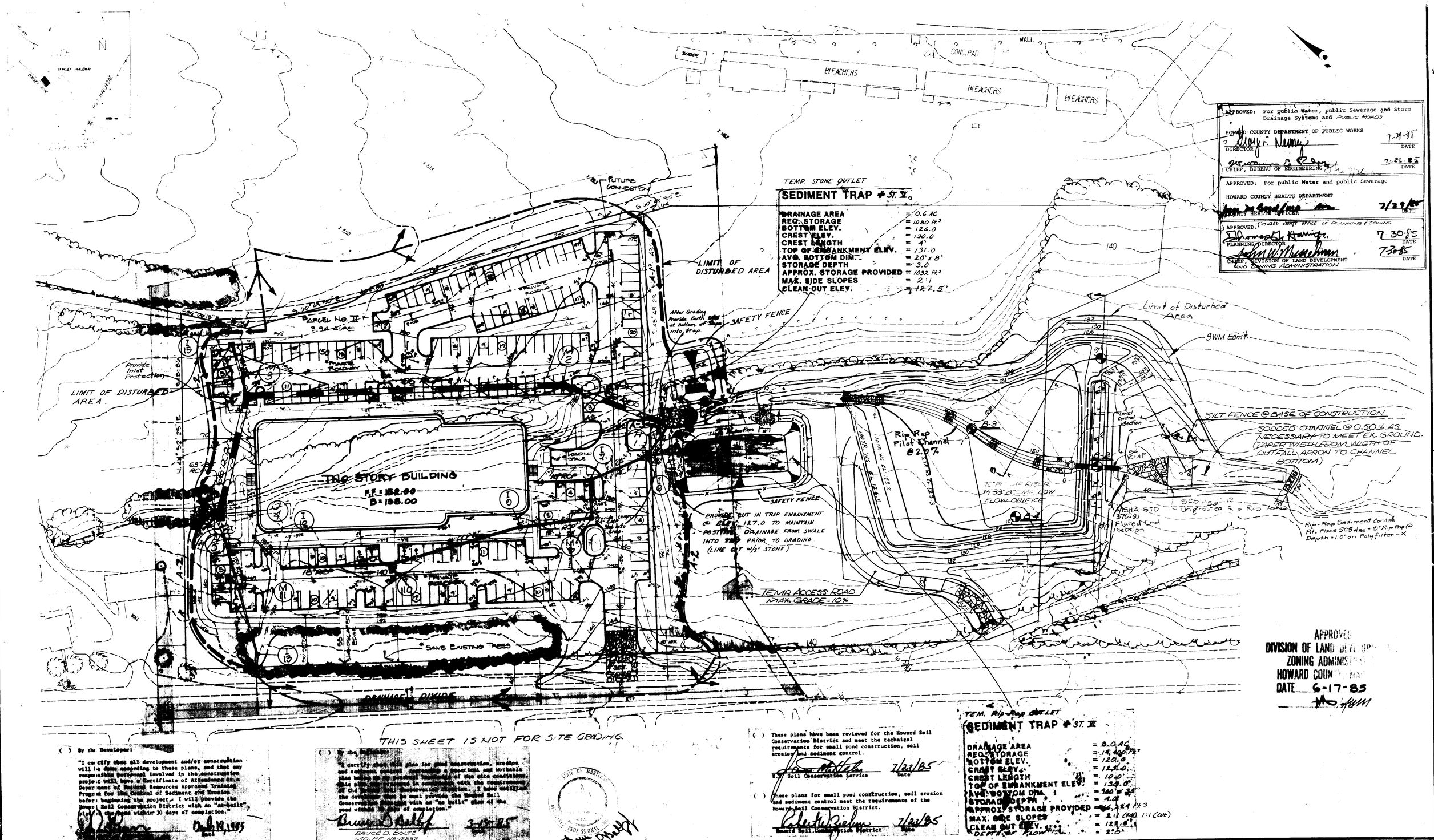
No.	REVISION	DATE	BY
1.)	HANDICAP PARKING/ARCH. SPECS.	5/20/85	RWE
2.)	REVISED HANDICAP PARKING SPACE LOCATIONS	6-27-85	JED

ENGINEERS • ARCHITECTS • PLANNERS • SCIENTISTS • SURVEYORS • PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
2 RESEARCH PLACE, ROCKVILLE, MARYLAND 20850
(301) 948-0900
GREENBELT, MD • ANNAPOLIS, MD • ATLANTA, GA • BECKLEY, WV • CULPEPER, VA • DENVER, CO
FAIRFAX, VA • GREENSBORO, NC • MONROE, MI • EXPORT, PA • WILLISTON PARK, NY

SITE PLAN DETAILS
DORSEY BUSINESS CENTER PARCEL II
ELECTION DISTRICT #1 HOWARD CO., MARYLAND

JED	DESIGN	SCALE : AS SHOWN	
JED	DRAWN	2 OF 9	SHEET
	CHECKED		
MAY '85	DATE	R-1114 X	JOB No. / FILE No.

SDP-85-154



APPROVED: For public Water, public Sewerage and Storm Drainage Systems and PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 7-27-85
CHIEF, BUREAU OF ENGINEERING — DATE 7-26-85

APPROVED: For public Water and public Sewerage
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 7/29/85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR — DATE 7-30-85
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 7-30-85

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 6-17-85

THIS SHEET IS NOT FOR SITE GRADING

( ) By the Developer:
"I certify that all development and/or construction will be done according to these plans, 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 will provide the owner's Soil Conservation District with an "as-built" plan for the pond within 30 days of completion."
Owner — Date

( ) By the Engineer:
"I certify that these plans for grade construction, erosion and sediment control incorporate practical and workable plan based on the principles and standards of the site conditions. This plan is based on information available, which the undersigned feels is adequate for the purposes for which it is intended. I have assisted the developer's agent in part preparing the Howard Soil Conservation District with an "as built" plan of the pond within 30 days of completion."
BRUCE D. BOLTZ
MD. RE. No. 12292
3-27-85

STATE OF MARYLAND — BRUCE D. BOLTZ — PROFESSIONAL ENGINEER

( ) These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.
U.S. Soil Conservation Service — Date 7/23/85

( ) These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.
Howard Soil Conservation District — Date 7/23/85

OWNER:
DORSEY BUISNESS CENTER LTD. PARTNERSHIP
7223 PARKWAY DRIVE
HANOVER, MARYLAND 21076
PHONE: (301) 796-4446

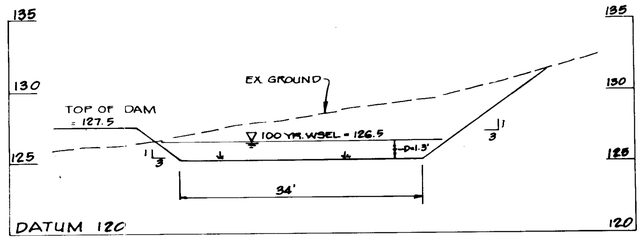
NO.	REVISION	DATE	BY
1	STORM DRAINS I12, H8, I12, M11, I15, M3		
	CORRECTED TO CONFORM WITH STORM DRAIN PLAN	8/23/85	BJF

GREENHORNE & O'MARA, INC.
ENGINEERS • ARCHITECTS • PLANNERS • SURVEYORS
2 RESEARCH PLACE
(301) 948 - 0900
ROCKVILLE, MD. 20850
GREENBELT, MD · ANNAPOLIS, MD · FAIRFAX, VA · NO. HUNTINGDON, PA

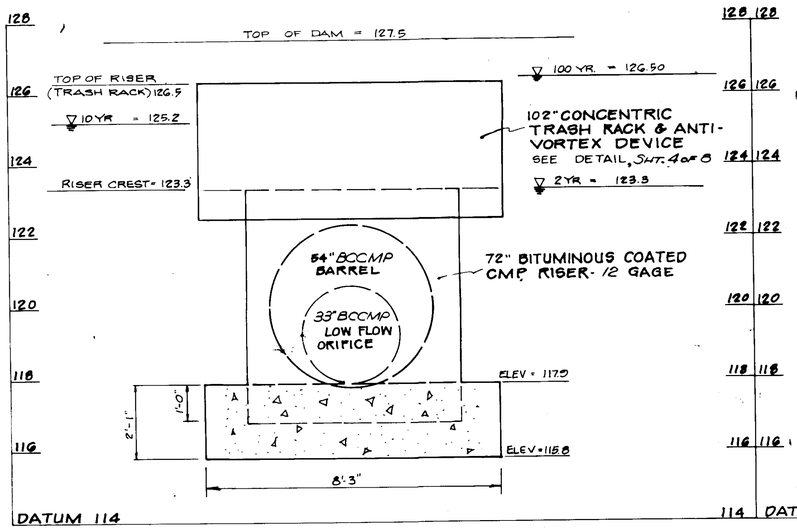
STORMWATER MANAGEMENT AND SEDIMENT CONTROL PLAN
DORSEY BUSINESS CENTER
PARCEL "II"
ELECTION DISTRICT = 1 HOWARD COUNTY, MARYLAND

JSL DESIGN	SCALE 1" = 40'
M DRAWN	3 OF
RHM CHECKED	SHEET
Mar. 85 DATE	JOB No.
	R- X FILE No.

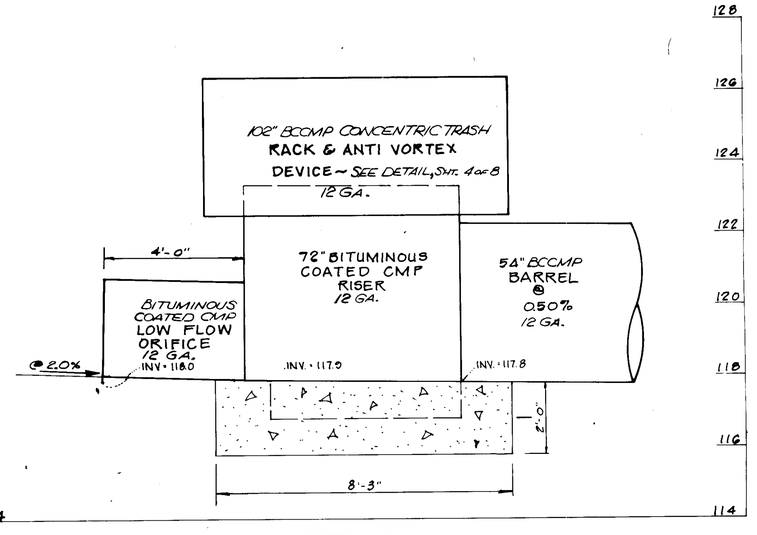
SDP-85-154



CROSS SECTION
EMERGENCY SPILLWAY
SCALE HORIZ 1" = 10'
VERT 1" = 5'

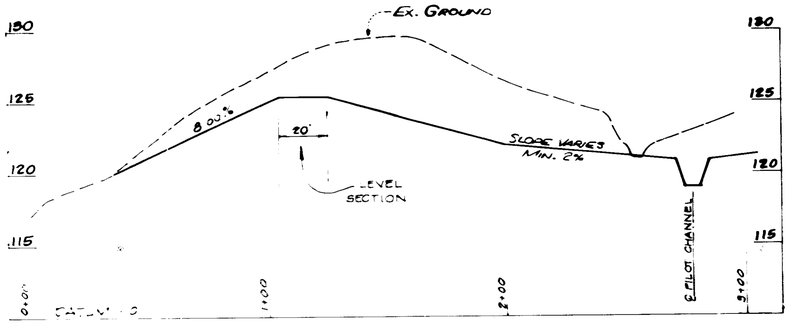


FRONT VIEW

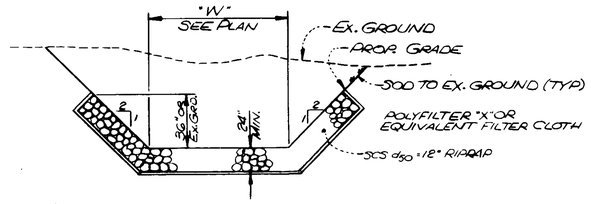


SIDE VIEW

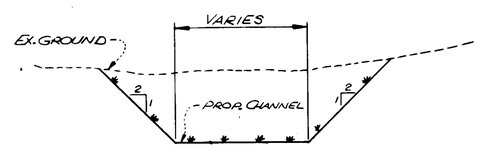
DETAIL - RISER STRUCTURE
SCALE : 1" = 2'



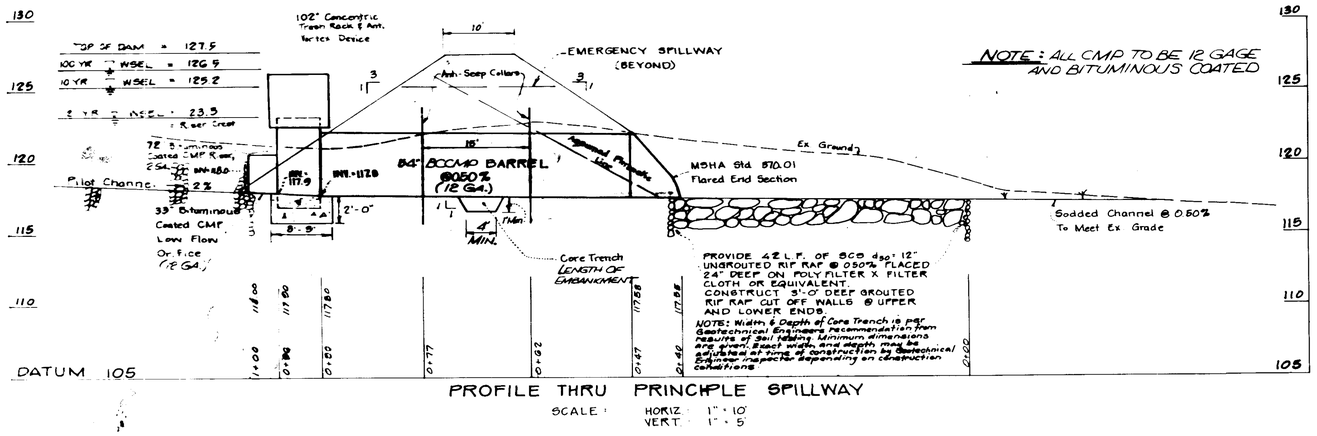
SECTION B-B
THRU
EMERGENCY SPILLWAY
SCALE HORIZ 1" = 30'
VERT 1" = 5'



OUTFALL APRON DETAIL
SCALE : NONE



SODDED CHANNEL DETAIL
SCALE : NONE



PROFILE THRU PRINCIPLE SPILLWAY
SCALE : HORIZ 1" = 10'
VERT 1" = 5'

NOTE : ALL CMP TO BE 12 GAGE AND BITUMINOUS COATED

PROVIDE 42 L.F. OF SCD d_{50} = 12" UNGROUTED RIP RAP @ 0.50% PLACED 24" DEEP ON POLYFILTER X FILTER CLOTH OR EQUIVALENT. CONSTRUCT 3'-0" DEEP GROUTED RIP RAP CUT OFF WALLS @ UPPER AND LOWER ENDS.

NOTE: Width & Depth of Core Trench is per Geotechnical Engineers recommendation from results of Soil testing. Minimum dimensions are given. Exact width and depth may be adjusted at time of construction by Geotechnical Engineer inspector depending on construction conditions.

APPROVED: For public Water, public Sewerage and Storm Drainage Systems and PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 7-24-85
CHIEF, BUREAU OF ENGINEERING — DATE 7-24-85

APPROVED: For public Water and public Sewerage
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 7/30/85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR — DATE 7-30-85
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 7-30-85

APPROVED
DIVISION OF LAND DEVELOPMENT
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 6-17-85

OWNER:
DORSEY BUSINESS CENTER LTD. PARTNERSHIP
7223 PARKWAY DRIVE
HANOVER, MARYLAND 21076
PHONE: (301) 796-4446

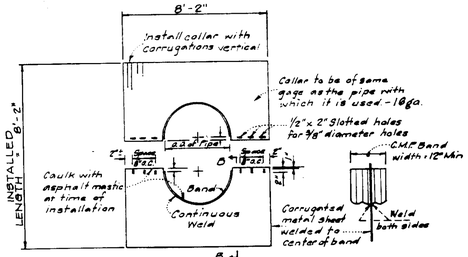
No.	REVISION	DATE	BY

GREENHORNE & O'MARA, INC.
ENGINEERS • ARCHITECTS • PLANNERS • SURVEYORS
2 RESEARCH PLACE ROCKVILLE, MD. 20850
(301) 948 - 0900
GREENBELT, MD • ANNAPOLIS, MD • FAIRFAX, VA • NO. HUNTINGDON, PA

STORMWATER MANAGEMENT AND SEDIMENT CONTROL PLAN
PARCEL II
DORSEY BUSINESS CENTER
ELECTION DISTRICT #1
HOWARD COUNTY, MARYLAND

JSL DESIGN	SCALE AS SHOWN		
ML DRAWN	4 OF 9 SHEET		
RHM CHECKED			
Mar. 85 DATE	JOB No.	R-1114-X FILE No.	

SDP-85-154

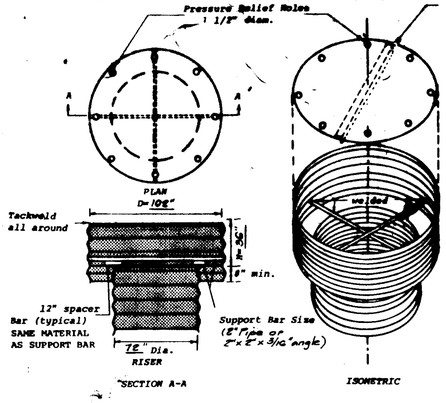


ELEVATION OF UNASSEMBLED COLLAR — SECTION "B-B"

NOTE: Each collar shall be furnished with two 1/2" diameter rods with standard tank lugs for connecting collars to pipe

DETAILS OF CORRUGATED METAL ANTI-SEEP COLLAR

NO SCALE



Top stiffener (if required) is 2"x2"x1/4" angle welded to top and orienented perpendicular to corrugations.

Top is 8 gage corrugated metal or 1/8" steel plate. Pressure relief holes may be committed, if ends of corrugations are left fully open when corrugated top is welded to cylinder.

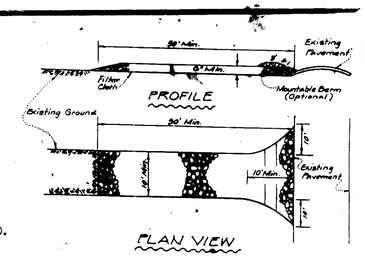
Cylinder is 10 gage corrugated metal pipe or fabricated from 1/8" steel plate.

Notes:
1) The cylinder must be fimly fastened to the top of the riser.
2) Support bars are welded to the top of the riser or attached by straps bolted to top of riser.

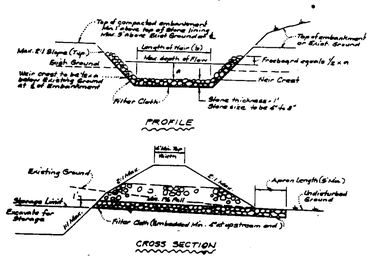
CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE
(not to scale)

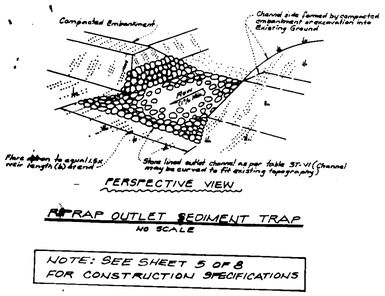
PIPE SCHEDULE		
DIA.	* TYPE	LENGTH
39"	CMP	4 L.F.
54"	CMP	43 L.F.
72"	CMP	6.5 L.F.

* ALL CORRUGATED METAL PIPE TO BE 16 GA. & BITUMINOUS COATED.



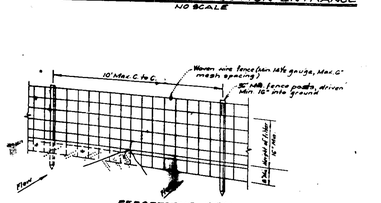
STABILIZED CONSTRUCTION ENTRANCE
NO SCALE

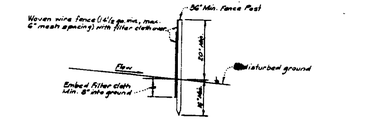




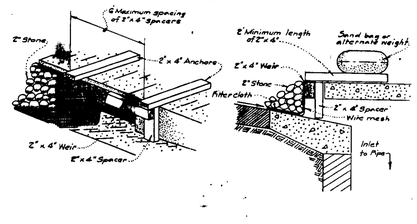
RIP RAP OUTLET SEDIMENT TRAP
NO SCALE

NOTE: SEE SHEET 5 OF 8 FOR CONSTRUCTION SPECIFICATIONS

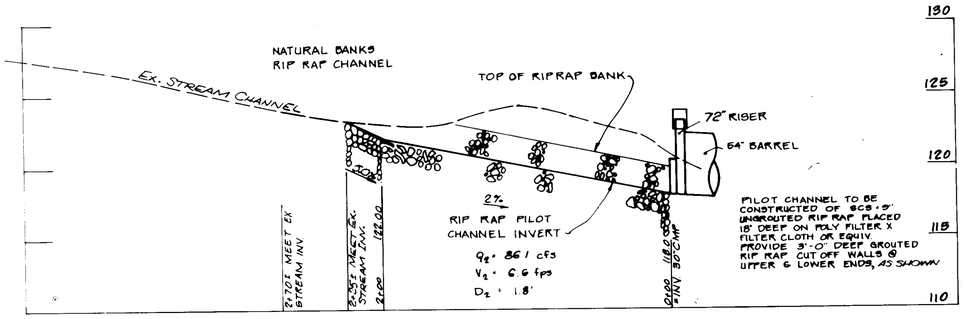




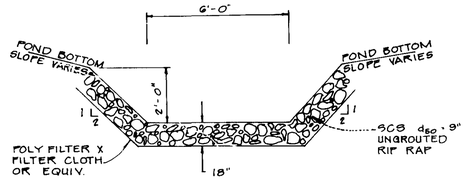
SILT FENCE
NO SCALE



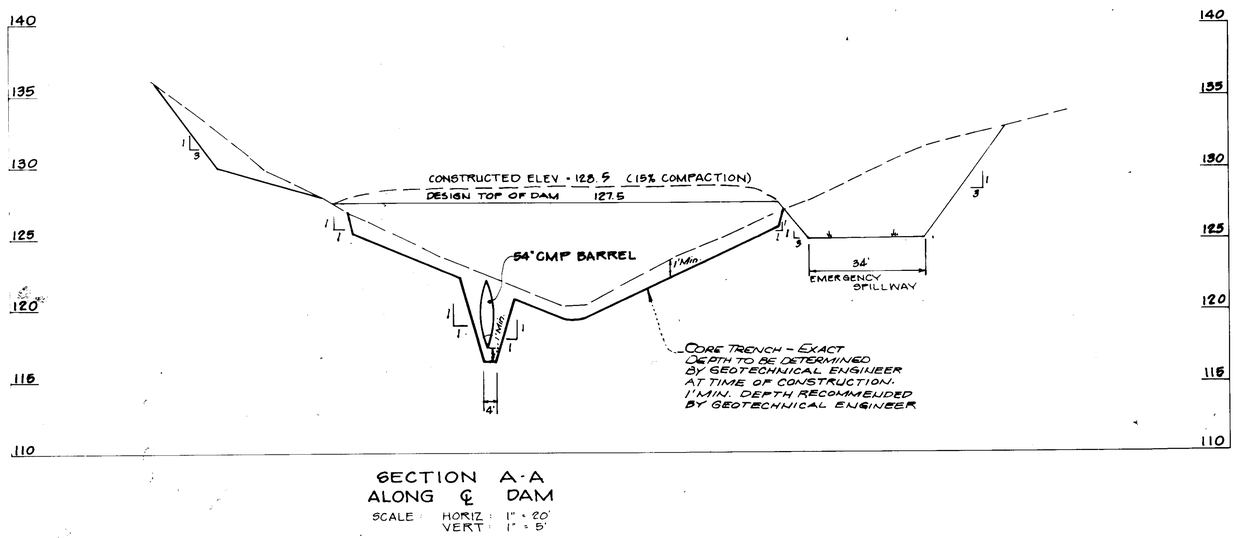
CURB INLET PROTECTION DETAIL
NO SCALE



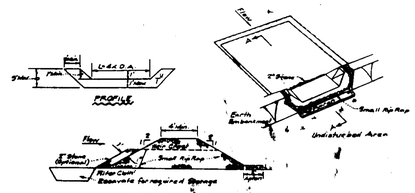
PROFILE OF PILOT CHANNEL
SCALE HORIZ. 1" = 50'
VERT. 1" = 6'



DETAIL OF
RIP RAP PILOT CHANNEL
NOT TO SCALE



SECTION A-A
ALONG ℄ DAM
SCALE HORIZ. 1" = 20'
VERT. 1" = 5'



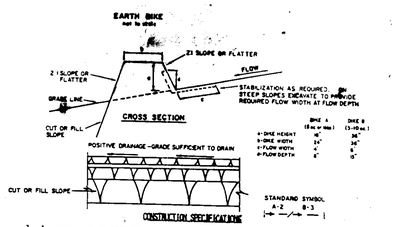
STONE OUTLET SEDIMENT TRAP
NO SCALE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 6-17-85

APPROVED: For public Water, Public Sewerage and Storm Drainage Systems and Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 7-29-85
CHIEF, BUREAU OF ENGINEERING — DATE 7-31-85

APPROVED: For public Water and public Sewerage
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 7/30/85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING
PLANNING DIRECTOR — DATE 7-30-85
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 7-30-85



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. 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 SUFFICIENTLY STABILIZED.
5. 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	.5-5.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	5.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EQUIVALENT; 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.

OWNER:
DORSEY BUSINESS CENTER LTD. PARTNERSHIP
7223 PARKWAY DRIVE
HANOVER, MARYLAND 21076
PHONE: (301) 796-4446

No.	REVISION	DATE	BY

GREENHORNE & O'MARA, INC.
ENGINEERS • ARCHITECTS • PLANNERS • SURVEYORS
2 RESEARCH PLACE ROCKVILLE, MD. 20850
(301) 948 - 0900
GREENBELT, MD • ANNAPOLIS, MD • FAIRFAX, VA • NO. HUNTINGDON, PA

STORMWATER MANAGEMENT AND SEDIMENT CONTROL PLAN
PARCEL II
DORSEY BUSINESS CENTER
ELECTION DISTRICT #1
HOWARD COUNTY, MARYLAND

JSL DESIGN	SCALE AS SHOWN		
M DRAWN	5 OF 9		
RHM CHECKED	SHEET		
Mar. 85 DATE	JOB No.	R-1114-X FILE No.	

SDP-85-154

SEQUENCE OF CONSTRUCTION

1. Clear and grub areas necessary to construct sediment control measures and construct all sediment control measures.
2. Construct storm drain structures 1-5 and connecting pipe to by-pass offsite runoff.
3. Construct temporary access road to stormwater management.
4. Commence construction of stormwater management pond.
   a. CLEAR & GRUB STORMWATER MANAGEMENT SITE
   b. PROVIDE DEWATERING MEASURES NECESSARY AS DESIGNATED BY ENGR. PRIOR TO CONSTRUCTION.
   c. Construct riser, barrel and low flow orifice including base and anti-seep collar
   d. Construct outfall
   e. Commence dam embankment construction including emergency spillway
   f. Grade pond to design specification including rip-rap pilot channel
   g. Stabilize disturbed areas
5. Clear and grub Parcel II area.
6. Commence site grading.
7. Upon completion of rough site grading, construct storm drainage and onsite utilities and provide temporary 24" CMP stub from structure I-6 to rip-rap outlet sediment trap.
8. Upon completion of storm drainage and utility construction, fine grade building area and commence building construction.
9. Fine grade paving areas and commence curb and gutter paving construction.
10. Complete grading and stabilize disturbed areas.
11. Upon completion of all construction and disturbed area stabilization, remove temporary sediment control measures.
12. Stabilize any remaining disturbed areas.

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 storm drain inlets/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 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 and Sec. 52), 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 3.44 Acres
   Area Disturbed 3.94 Acres
   Area to be roofed or paved 0.45 Acres
   Area to be vegetatively stabilized 1.51 Acres
   Total Cut 3900 Cu. yds
   Total Fill 3000 Cu. yds
   Offsite waste/borrow area location APPROVED STOCKPILE @ SPEEDWAY
8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired in the same day of disturbance.

STORMWATER MANAGEMENT CONSTRUCTION SPECIFICATIONS

A. Site Preparation

Areas under the embankment, structural works, and stream diversion shall be cleared, grubbed, and the topsoil stripped to remove all trees, vegetation, roots, or other objectionable material. To facilitate clean out and restoration, the permanent pool area should be cleared of all brush and trees.

B. Earth Fill

Earth fill shall conform to SHA specification Article 31.06 and these specifications:

1. Material

The fill material shall be taken from an approved borrow area. The first two feet of excavation under the embankment is to be wasted at the designated spoil area. The final decision as to the suitability of the exposed soil shall be made by the Soils Engineer at the time of construction. All material shall be free from roots, stumps, wood, rubbish, oversized stones, frozen or other objectionable materials. The dam embankment should be formed of material conforming to the Unified Soil Classification SC, CL, and ML. As a minimum criteria, the fill material for the dam embankment (except as noted below) will have a maximum density not less than 100 pcf as determined by AASHTO T99 Method A. The liquid limit shall not exceed 40 and the Plasticity Index must be between 12 and 25. All material shall contain no stone larger than three inches in the greatest dimension. Such stones shall not be more than 25 percent by volume of the fill material. For dam core trenches, the material used can include clean and organic-free CH and MH material in addition to CL and ML. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height all along the length of the embankment shall be increased at least ten percent above the design elevation (including freeboard) unless otherwise shown on the plans.

2. Placement

Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in eight-inch maximum thickness (before compaction) layers and shall be continuous over the entire length of the fill. The most porous borrow material shall be placed in the downstream portions of the embankment.

3. Compaction

The movement of hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be compacted to a minimum of 95 percent of the maximum dry density obtained in compaction tests of the fill materials performed in accordance with the requirements of the AASHTO designation T99 Method A, prior to next lift being spread and be certified by the Soils Engineer at the time of construction. The fill density shall meet minimum specified density regardless of the compaction method used. The moisture content of the embankment material shall be within the designated upper and lower limits of the optimum moisture content. Limits of moisture content may be modified by the engineer during construction depending on material encountered. Fill placed at densities lower than the specified minimum density or at moisture contents outside the specified acceptable range of moisture content or otherwise not conforming to the requirements of the specifications shall be reworked to meet the requirements or removed and replaced by acceptable fill.

4. Core Trench/Cutoff Trench

Where specified, a core trench shall be excavated along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being TWO feet. The depth shall be at least ONE FT. or as shown on the plans. The side slopes of the trench shall be one-to-one or flatter. The backfill material for the core trench shall be approved prior to use and shall be free of all organic materials. The fill for the trench shall be compacted with equipment or methods to assure that a minimum of 95 percent of the maximum dry density and minimum permeability is achieved. GEOTECHNICAL ENGINEER TO SPECIFY MINIMUM DEPTH DURING CONSTRUCTION INSPECTION.

C. Structural Backfill

Backfill material shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other compaction equipment. The material must completely fill all spaces under and adjacent to the structure or pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall the contractor drive equipment over any part of a concrete structure or pipe unless there is a compacted fill of 24 inches or greater over the structure or pipe.

D. Pipe Conduits

All pipe denoted as "CMP" may be either corrugated aluminum pipe or asphalt coated corrugated steel pipe. The barrell, riser, trash rack, end section, and anti-seep collars must all be made of the same material (either steel or aluminum).

1. Corrugated Metal Pipe

a. Materials - (Steel Pipe) - This pipe and its appurtenances shall be galvanized and have full bituminous coating and shall conform to the requirements of AASHTO Specification M-190, Type A, with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.

Materials - (Aluminum Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211 with watertight coupling bands. Coupling bands, anti-seep collars, and sections, etc., must be composed of the same material as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer. Hot dip galvanized bolts may be used for connections. The pH of the surrounding soil shall be less than nine (9) and greater than four (4). Helically corrugated pipe, in addition to the requirements above, shall have either continously welded seams or have lock seams which are caulked with a neoprene bead.

b. Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around and shall be at the proper angle to provide a watertight connection. Watertight coupling bands shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight.

c. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

d. Laying pipe - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.

e. Backfilling shall conform to structural backfill as described above.

f. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

2. Reinforced Concrete Pipe

a. Materials - This pipe shall conform to SHA specification, Article 20.16. Class IV pipe shall be used unless otherwise specified. Reinforced concrete pipe shall have a rubber gasket joint and shall equal or exceed ASTM Specification C-361. Approved equivalents are AWWA Specifications C-300, -301, and -302.

b. Bedding - All reinforced concrete pipe shall be laid in a concrete bedding for their entire length. This bedding shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least ten percent of its diameter with a minimum thickness of three inches. ~~Where no concrete bedding is an approved application.~~

c. Laying pipe - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed on the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe.

d. All concrete pipe joints will be sealed with mortar inside and outside.

e. Backfilling shall conform to structural backfill as described above.

f. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

E. Concrete

Concrete shall meet minimum requirements set forth in SHA Specification and Supplement (August 1980), Article 20.07 (Portland Cement Concrete Mixtures), for Class 3(A-1) or 2(P-1) concrete and 20.10 for reinforcement. Concrete construction shall conform to SHA Specifications, Articles 34.08 and 34.09.

F. Rip Rap and Slope Protection

Rock for rip rap shall conform to SRC specifications and Supplement (August 1980), Article 20.03-6. Plastic filter cloth shall be placed under all rip rap. Filter cloth shall be "Poly Filter X" or approved subsitute.

G. Fencing

When required by the HOWARD SOIL CONSERVATION DISTRICT chain link fence fabric, fence posts, toprails, braces, gates, and accessories shall conform to the requirements of Federal Specification RR-F-191. Materials shall be as follows, except as otherwise specified:

Fabric: Type I, 2-inch mesh, 9-gauge, minimum weight of zinc coating-1.8 ounces per square foot.
Barbed Wire: Zinc-coated steel.
Posts: Type I, Class I, zinc-coated.
Top Rails: Type II, Class I, zinc-coated.
Braces: Zinc-coated steel.
Gates: Type I, zinc-coated steel.

H. Stabilization

Borrow areas, spoil areas, and all graded areas of the dam and road shall be graded to provide proper drainage and left in a sightly condition. All exposed surfaces of the embankment, spillway, and borrow areas shall be stabilized by seeding and applying straw mulch in accordance with these specifications and SHA Specifications, Article 20.07, 20.28, 20.29, 36.04, and 36.05.

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

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

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

I. Reforestation

a. Seedlings should be planted above the two-year storm pool. Varieties and spacing shall be in accordance with the State Forester, Maryland Forestry Service. The State Forestry Service should be contacted to establish details of Reforestation Plan.

J. Construction Inspection by Designated Engineer

The construction of the pond and embankment shall be under the supervision of a registered engineer. The engineer must certify that the pond and embankment have been built in accordance with the plans and submit, such a written certification to the ~~Department of Environmental Protection and the~~ Howard Soil Conservation District immediately following the completion of the project. The engineer shall have the responsibility and authority to make minor changes in the plans in order to compensate for unusual soils conditions encountered during construction as long as changes do not adversely affect the integrity of the dam. Major changes to the design which may result from site conditions encountered during construction must be reviewed and approved by the Design Engineer and the ~~MDCO~~ prior to initiation of construction. CONSTRUCTION INSPECTION TO BE MADE BY GEOTECHNICAL ENGINEER.

K. Care of Water During Construction

All work on permanent structures shall be carried out in areas free from water. The contractor shall construct and maintain all temporary dikes, levees, coffardams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works, and to furnish, install, operate, and maintain all necessary pumping and other equipment required for removal of water from the various parcs of the work and for maintaining the excavations, foundation, and other parts of the work free from water as required or directed by the engineer for constructing each part of the work. After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required to prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet works and so as not to interfere in any way with the operation or maintenance of the structure. The diversion and care of the stream will be diverted through the site until the full flow can be passed through the permanent works. The removal of water from the required excavation and the foundation shall be accomplished in a manner and to the extent that will maintain stability of the excavated slopes and bottom of required excavations and will allow satisfactory performance of all construction operations. During the placing and compacting of material in required excavations, the water level at the locations being refilled shall be maintained below the bottom of the excavation at such locations, which may require draining the water to sumps from which the water shall be pumped.

L. ADDITIONAL INFORMATION
CONSULT GEOTECHNICAL ENGINEERING REPORT PRIOR TO CONSTRUCTION FOR ANY ADDITIONAL REQUIREMENTS.

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 6-17-85

APPROVED: For Public Water, Public Sewerage & Storm Drainage Systems and PUBLIC ROADS
HOWARD COUNTY DEPT. OF PUBLIC WORKS
Director — 7-29-85 Date
Chief, Bureau of Engineering — 7-26-85 Date

APPROVED: For Public Water & Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
County Health Officer — 7/29/85 Date

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
Planning Director — 7-30-85 Date
Chief, Div. of Land Development & Zoning Administration — 7-30-85 Date

STATE OF MARYLAND — Russell D. Baldy II

OWNER:
DORSEY BUSINESS CENTER LTD. PARTNERSHIP
7223 PARKWAY DRIVE
HANOVER, MARYLAND 21076
PHONE: (301) 796-4446

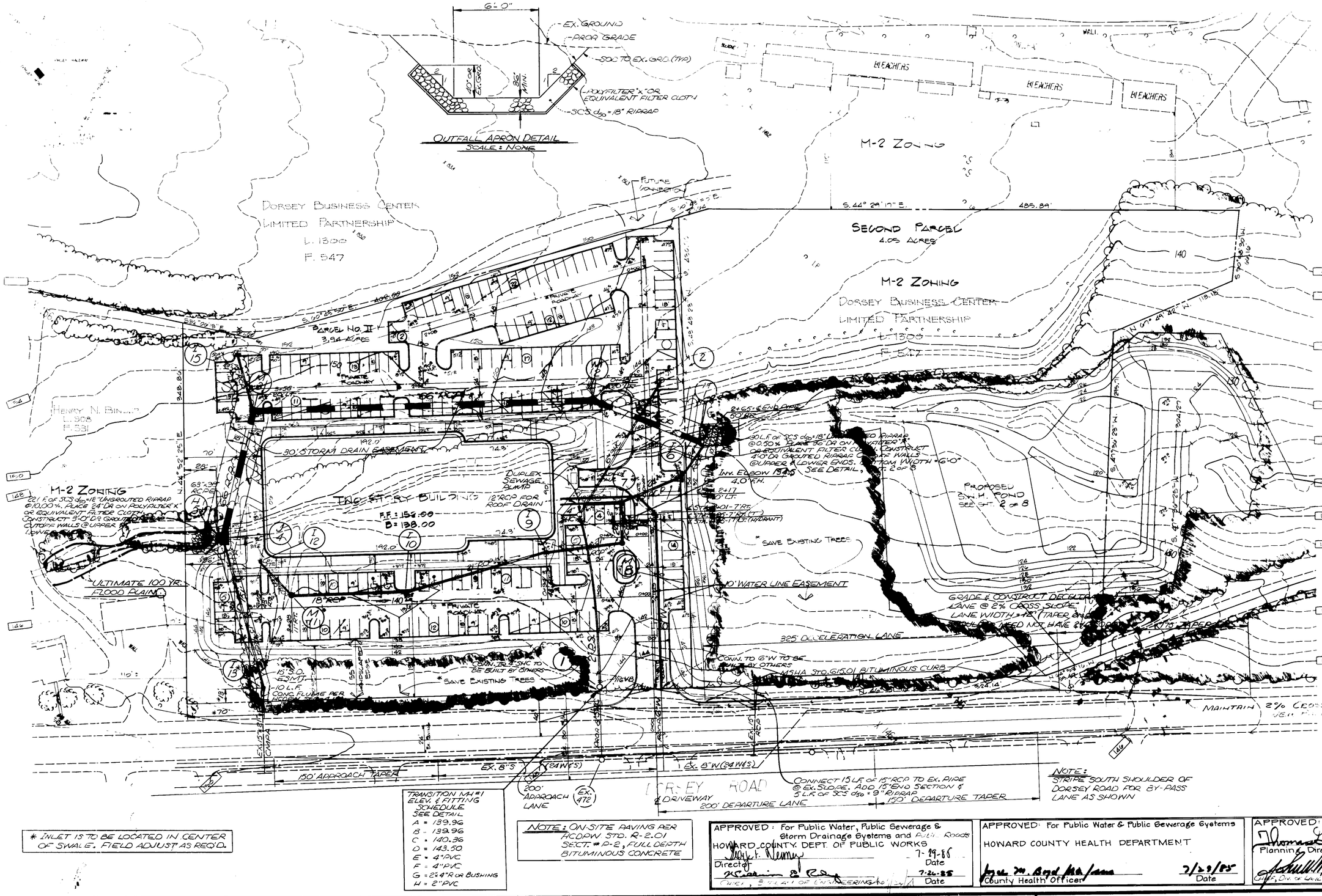
No.	REVISION	DATE	BY

ENGINEERS • ARCHITECTS • PLANNERS • SCIENTISTS • SURVEYORS • PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
2 RESEARCH PLACE, ROCKVILLE, MARYLAND 20850
(301) 948-0900
GREENBELT, MD • ANNAPOLIS, MD • ATLANTA, GA • BECKLEY, WV • CULPEPER, VA • DENVER, CO
FAIRFAX, VA • GREENSBORO, NC • MONROE, MI • EXPORT, PA • WILLISTON PARK, NY

STORMWATER MANAGEMENT AND SEDIMENT CONTROL PLAN
PARCEL II
DORSEY BUSINESS CENTER
ELECTION DISTRICT #1
HOWARD COUNTY, MARYLAND

JSL DESIGN	SCALE NONE		
DRAWN	6 OF 9		
RHM CHECKED	SHEET		
MARCH, 85 DATE	JOB No.	R-1114- FILE No.	

SDP-85-154



APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 6-17-85

* INLET IS TO BE LOCATED IN CENTER OF SWALE. FIELD ADJUST AS REQ'D.

TRANSITION MH #1 ELEV. & FITTING SCHEDULE SEE DETAIL
A = 139.96
B = 139.96
C = 140.36
D = 143.50
E = 4" PVC
F = 4" PVC
G = 2"x4"R OR BUSHING
H = 2" PVC

NOTE: ON-SITE PAVING PER HCDPW STD. R-2.01 SECT. # P-2, FULL DEPTH BITUMINOUS CONCRETE

APPROVED: For Public Water, Public Sewerage & Storm Drainage Systems and Public Roads
HOWARD COUNTY DEPT. OF PUBLIC WORKS
Director — 7-29-85 Date
CHIEF, BUREAU OF ENGINEERING — 7-26-85 Date

APPROVED: For Public Water & Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
County Health Officer — 7/29/85 Date

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
Planning Director — 7-30-85 Date
CHIEF, DIV. OF LAND DEVELOPMENT & ZONING ADMIN. — 7-30-85 Date

OWNER:
DORSEY BUSINESS CENTER LTD. PARTNERSHIP
7223 PARKWAY DRIVE
HANOVER, MARYLAND 21076
PHONE: (301) 796-4446

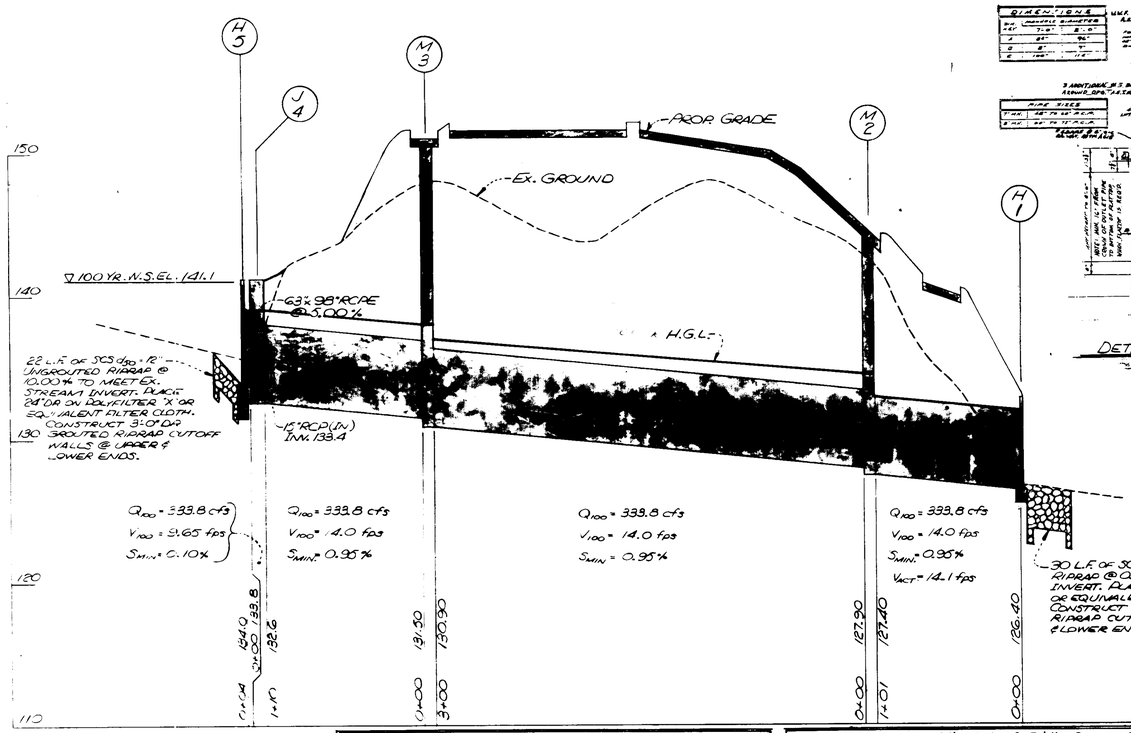
No.	REVISION	DATE	BY

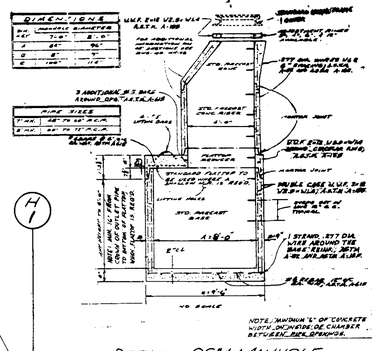
GREENHORNE & O'MARA, INC.
ENGINEERS • ARCHITECTS • PLANNERS • SURVEYORS
2 RESEARCH PLACE ROCKVILLE, MD. 20850
(301) 948 - 0900
GREENBELT, MD • ANNAPOLIS, MD • FAIRFAX, VA • NO. HUNTINGDON, PA

SITE UTILITIES & PAVING PLAN
DORSEY BUSINESS CENTER
PARCEL II
ELECTION DISTRICT #1 HOWARD COUNTY, MARYLAND

JS-/RJB DESIGN	SCALE 1" = 40'		
JDF DRAWN	SHEET 7 OF 9		
RAM CHECKED			
MAR '85 DATE	JOB No.	FILE No. 8-1114-X	

SDP-85-154





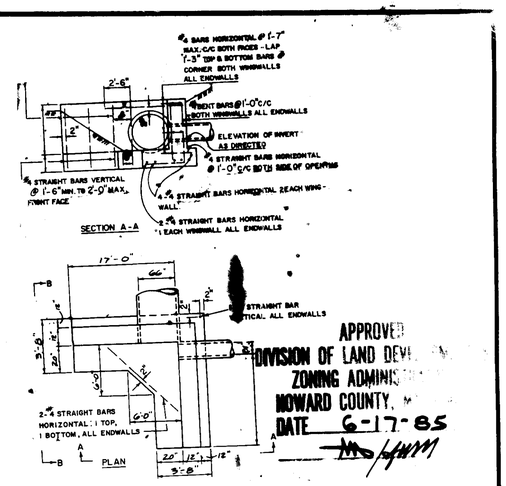
DETAIL - 96"ϕ MANHOLE
SCALE: NONE

STRUCTURE SCHEDULE

NO.	TYPE	TOP ELEVATION UPPER	TOP ELEVATION LOWER	REMARKS **
H1	HEADWALL	———	———	Mod. MSHA Std. 352.02 – SEE DETAIL
J4	JUNCTION BOX	141.60		PRECAST JUNCTION BOX – SEE DETAIL
M2	MANHOLE	146.25		PRECAST MH-96" – SEE DETAIL
M3	MANHOLE	150.40		PRECAST MH-96" – SEE DETAIL
H5	HEADWALL	———	———	Mod. MSHA Std. 352.02 – SEE DETAIL
I6	A-10 INLET	136.60		PRECAST CI-48" THT=10'
I7	A-5 INLET	137.60		PRECAST CI-48" THT=6'
M8	MANHOLE	138.63		PRECAST MH-48"
I9	YARD INLET	137.00		HCDPW Std. SD-4.14
I10	DOUBLE TYPE S CURB INLET	136.51	136.10	HCDPW Std SD-4.39 (FACING to curb)
M11	MANHOLE	136.51		PRECAST MH-48"
I12	YARD INLET	137.00		HCDPW Std. SD-4.14
I13	TYPE K INLET	143.07		HCDPW Std. SD-4.12 ***
I15	A-5 INLET	149.60		PRECAST CI-36" THT=6'
E-16	15" CONC. END SECT.	———	———	HCDPW STD. 30-5.52

** PRECAST STRUCTURES to be Supplied by Valley Block, INC.
*** CONCRETE VALLEY GUTTER to be constructed on upstream side only.
* TOP ELEVATION given: CURB INLET & COMBINATION INLETS – TOP OF CURB
other structures – Top of Structure or Grate @ ℄

Note: Structure I-13 alignment & elevation to be field adjusted as necessary to locate in center of existing ditch.



APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 6-17-85

PIPE SCHEDULE

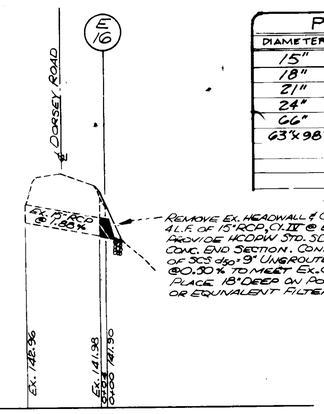
DIAMETER	TYPE	LENGTH
15"	RCP CI. IV	226 L.F.
18"	"	100 L.F.
21"	"	195 L.F.
24"	"	125 L.F.
66"	"	511 L.F.
63"x98"	RCPE CI. IV	41 L.F.

GENERAL NOTES:
SPECIFICATIONS: LATEST S.H.A.
CONCRETE: SEE S.H.A. SPECIFICATIONS
REINFORCING: DEFORMED STEEL BARS ϕ 6 BARS
CHAMFER: ALL EXPOSED EDGES 1"x1" OR AS DIRECTED
SOD: 3' OF SOD WILL BE CALLED FOR ON INDIVIDUAL JOBS.

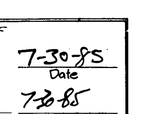
APPROVED: For Public Water, Public Sewerage & Storm Drainage Systems and Public Roads
HOWARD COUNTY DEPT. OF PUBLIC WORKS
Director — Date 7-24-85
Chief, Bureau of Engineering — Date 7-24-85

APPROVED: For Public Water & Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
County Health Officer — Date 7-29-85

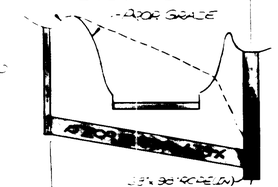
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
Planning Director — Date 7-30-85
Chief, Div. of Land Development & Zoning Administration — Date 7-30-85

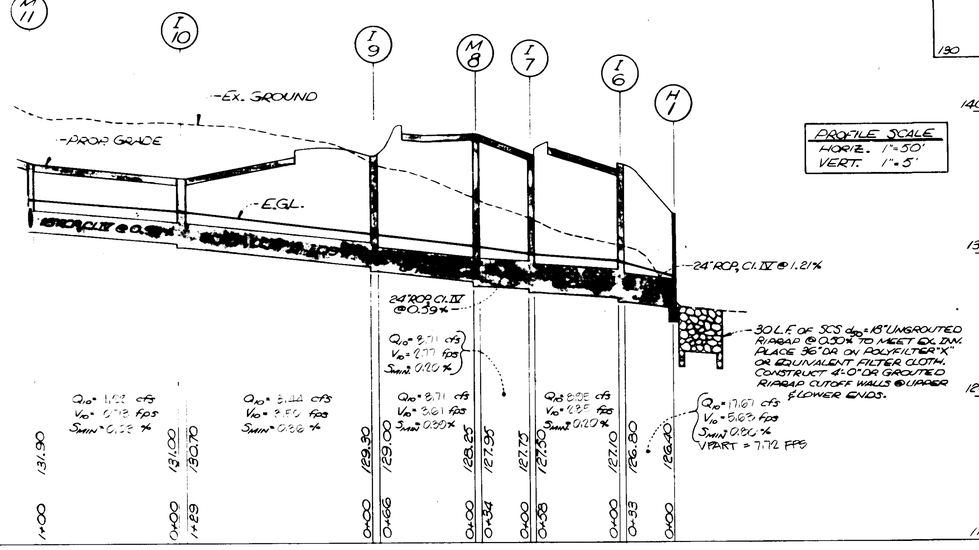


REMOVE EX. HEADWALL & CONSTRUCT 4 L.F. OF 15" RCP, CL IV @ EX. SLOPE. REPLACE HCDPW STD. SD-5.52 15" CONC. END SECTION. CONSTRUCT 5 L.F. OF SCS d50 = 9" UNGROUTED RIPRAP @ 0.30% TO MEET EX. GRADE. PLACE 18" DEEP ON POLYFILTER "X" OR EQUIVALENT FILTER CLOTH.

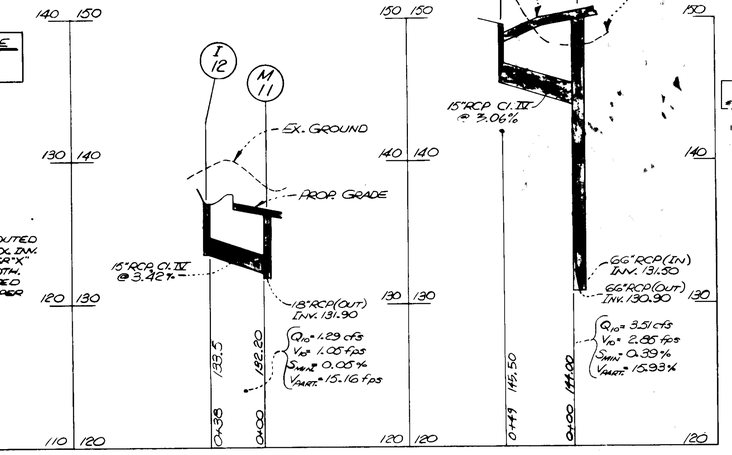


H-1 DETAIL (MOD. MSHA STD. 352.01)
SCALE: NONE

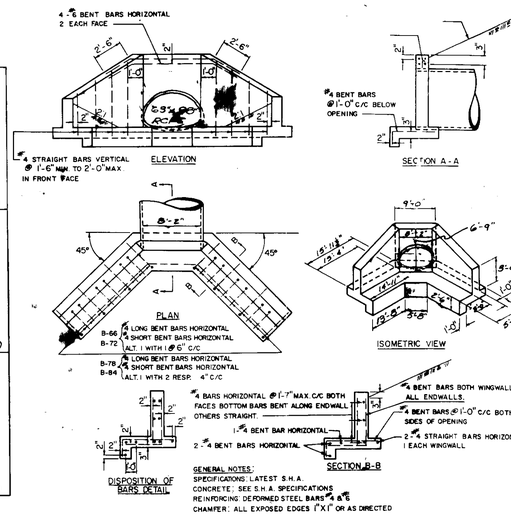




PROFILE SCALE
HORIZ. 1"=50'
VERT. 1"=5'



NOTE: SEE SHT. 2 OF 9 FOR STD. PAVING & CURB SECTIONS



OWNER:
DORSEY BUSINESS CENTER LTD. PARTNERSHIP
7223 PARKWAY DRIVE
HANOVER, MARYLAND 21076
PHONE: (301) 796-4446

No.	REVISION	DATE	BY
1	H1 TO M11, Q'S, V'S, & MIN UPDATED TO CONFORM TO APPROVED COMP.	8/13/85	BJP

ENGINEERS • ARCHITECTS • PLANNERS • SCIENTISTS • SURVEYORS • PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
2 RESEARCH PLACE, ROCKVILLE, MARYLAND 20850
(301) 948-0900
GREENBELT, MD • ANNAPOLIS, MD • ATLANTA, GA • BECKLEY, WV • CULPEPER, VA • DENVER, CO
FAIRFAX, VA • GREENSBORO, NC • MONROE, MI • EXPORT, PA • WILLISTON PARK, NY

STORM DRAINAGE PROFILES & DETAILS
PARCEL II
DORSEY BUSINESS CENTER
ELECTION DISTRICT #1
HOWARD COUNTY, MARYLAND

JSL DESIGN	SCALE AS SHOWN		
EB DRAWN	SHEET 8 OF 9		
RHM CHECKED			
MAR. '85 DATE	JOB No.	R-1114-X FILE No.	

SDP-85-154

DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

GENERAL NOTES

PARTS I, II & III

PART I

1. Approximate location of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer, at the Contractor's expense.
2. All horizontal controls are based on Maryland State Coordinates.
3. All vertical controls are based on U. S. G. S Datum.
4. All pipe elevations shown are invert elevations.
5. Clear all utilities by a minimum of 6'. Clear all poles by 2'-0" minimum or tunnel as required. Any cost incurred to the contractor for tunneling or backing at poles shall be included in unit prices bid for construction of the main.
6. For details not shown on the drawings use Howard County Standard Details.
7. For materials and construction methods use Howard County Standard Specifications.
8. Contractor shall locate existing utilities a minimum of two (2) weeks in advance of construction operations in the vicinity of proposed utilities at this own expense.
9. Contractor shall notify the following utilities or agencies at least five (5) working days before starting work shown on these plans:

   State Highway Administration - 531-5533

   Baltimore Gas & Electric Company - Underground Electric Distribution Customer Service - 685-0123

   Baltimore Gas & Electric Company - Ungerground Gas Distribution Customer Service - 685-0123

   Engineering - "Damage Control" - 234-5621

   Chesapeake & Potomac Telephone Company - 725-9976

   American Telephone & Telegraphy - Cable Location Division - 393-3553

   Colonial Pipe Company - 795-1390

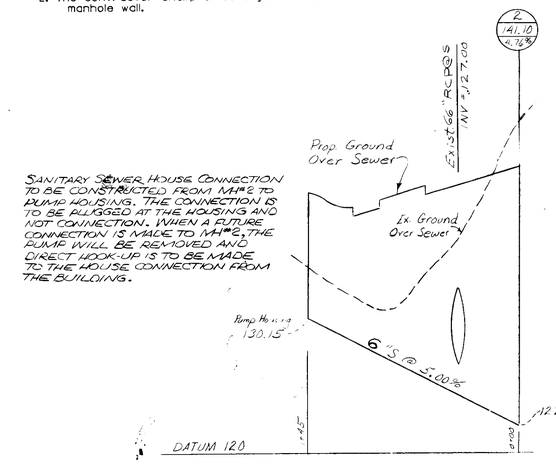
   Bureau of Utilities Howard County - 992-2366
10. Trees are to be protected from damage to maximum extent. Trees located within the construction strip are not to be removed or damaged by the contractor.
11. Contractor shall remove trees, stumps and roots along line of excavation as directed by the Engineer. Payment for such removal shall be included in the unit price bid for construction of the main.
12. Place regulation 'Men Working' and warning signs as required to comply with Maryland State Highway Administration Manual of Traffic Control for Highway Construction and Maintenance Operations.

WATER - PART II

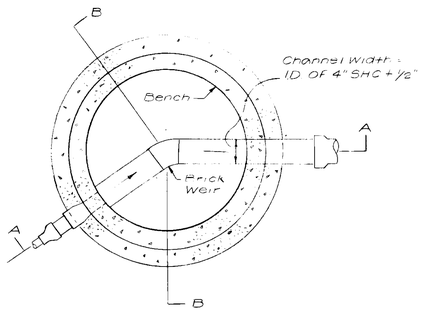
1. All water mains to be C.I.P. or D.I.P. unless otherwise noted.
2. Top of all water mains to have a minimum of 3 1/2' cover unless otherwise noted.
3. Valves adjacent to tees shall be strapped to tees.
4. Block all fittings with concrete.
5. Bury line elevations on fire hydrants shall be set to the elevations shown on the drawings. All fire hydrants shall be strapped and buttressed with concrete in accordance with standard details. Soil around the fire hydrant to be compacted in accordance with Sections 10.03 and 10.08 of the Standard Specifications.
6. All water house connections shall be for an inside meter setting.
7. The contractor shall not operate any water main valves on the existing system.
8. For all copper water house connections, utilize flared type fittings only.

SEWER - PART III

1. All sewer mains shall be CSPX, RCSP, VCPX, ACP Class 2400 or PVC unless otherwise noted.
2. The contractor shall provide a joint in all sewer main within 2'0" of exterior manhole wall.



SANITARY SEWER HOUSE CONNECTION TO BE CONSTRUCTED FROM MH#2 TO PUMP HOUSING. THE CONNECTION IS TO BE PLUGGED AT THE HOUSING AND NOT CONNECTION. WHEN A FUTURE CONNECTION IS MADE TO MH#2, THE PUMP WILL BE REMOVED AND DIRECT HOOK-UP IS TO BE MADE TO THE HOUSE CONNECTION FROM THE BUILDING.

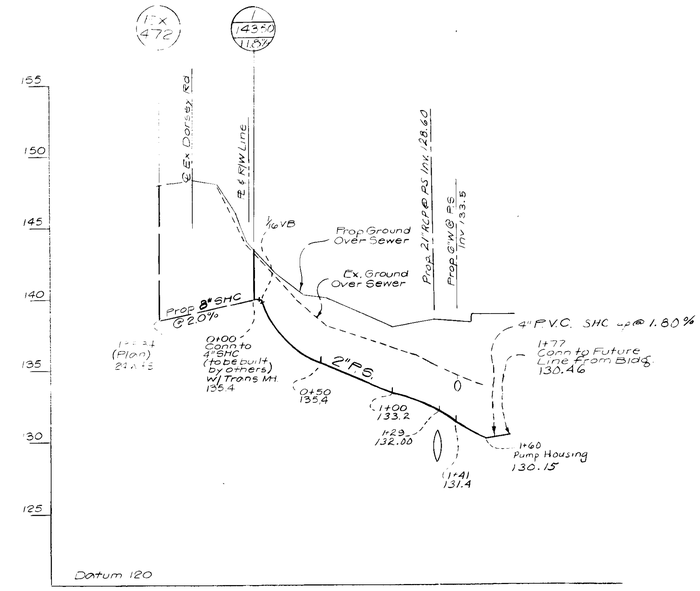


PLAN VIEW
(Slab Removed)

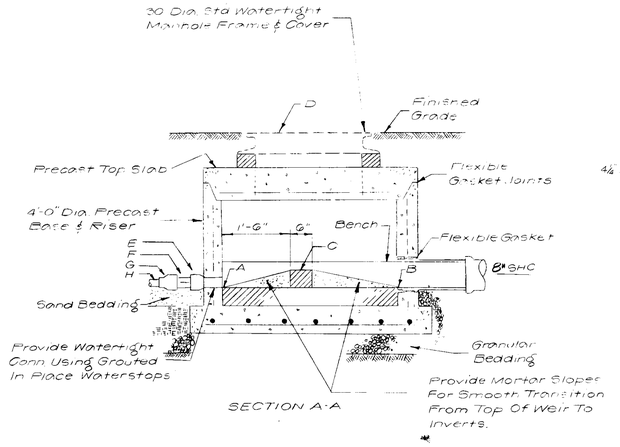
ELEVATION & FITTING SCHEDULE

A	Pressure Sewer Influent Invert Elev.
B	Sewer Effluent Invert Elevation
C	Weir Top Elevation
D	Manhole Frame Elevation
E	P.V.C. Bell-End Section
F	P.V.C. Nipple
G	P.V.C. Reducer
H	P.V.C. Pressure Sewer

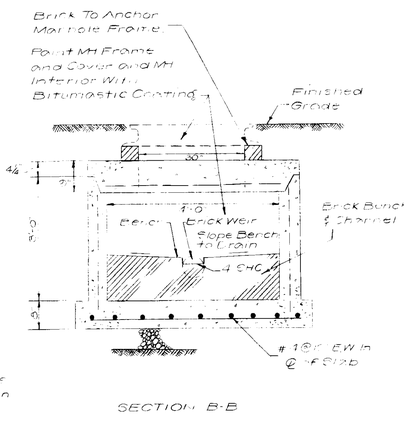
FOR SPECIFIC ELEVATIONS AND FITTING SIZES, SEE PLAN SHEET



PROFILE SCALE
Vert 1" = 5'
Hor 1" = 50'



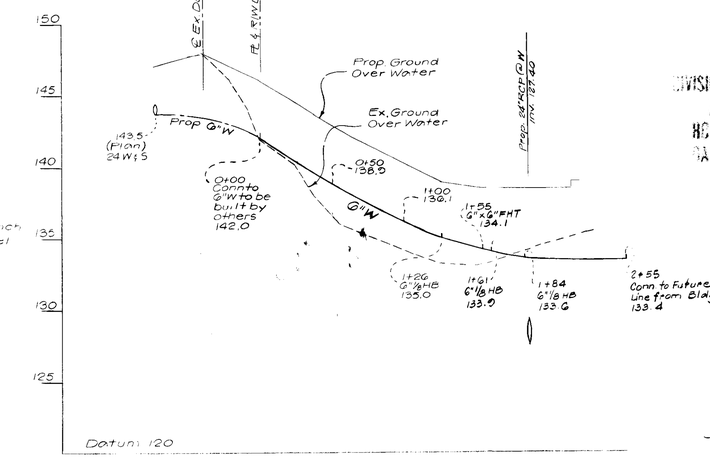
SECTION A-A



SECTION B-B

NOTES:
1. MH 2 TO BE HOWARD CO. STD. G5.01 MANHOLE
2. CHANNEL LINING TO BE 90° TO PROPERTY LINE WITH 8" KNOCKOUT PROVIDED.

SPECIAL DETAIL
TRANSITION MANHOLE
(No Scale)



APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 6-17-85

Bruce D Bolf

SEE CONTRACT 14-1383D
FOR WATER & SEWER WORK IN PUBLIC R.O.W.

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE & STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPT OF PUBLIC WORKS
Director — Date
Chief Bureau of Engineering — Date 7-24-85

APPROVED: For Public Water & Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
County Health Officer — Date 7-29-85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
Planning Director — Date 7-30-85
Chief, Div. of Land Development & Zoning Administration — Date

OWNER:
DORSEY BUSINESS CENTER LTD. PARTNERSHIP
7225 PARKWAY DRIVE
HANOVER, MARYLAND
PHONE: (301) 796-4446

No.	REVISION	DATE	BY

ENGINEERS • ARCHITECTS • PLANNERS • SCIENTISTS • SURVEYORS • PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
2 RESEARCH PLACE, ROCKVILLE, MARYLAND 20850
(301) 948-0900
GREENBELT, MD • ANNAPOLIS, MD • ATLANTA, GA • BECKLEY, WV • CULPEPER, VA • DENVER, CO
FAIRFAX, VA • GREENSBORO, NC • MONROE, MI • EXPORT, PA • WILLISTON PARK, NY

WATER AND SEWER PROFILE, DETAIL SHEET

DORSEY BUSINESS CENTER
PARCEL II
ELECTION DISTRICT NO. 1 HOWARD COUNTY

RGB DESIGN	SCALE AS SHOWN
RGB DRAWN	9 OF 9
BDE CHECKED	SHEET
Mar 85 DATE	JOB No. / FILE No. R-1114-X

SDP-85-154