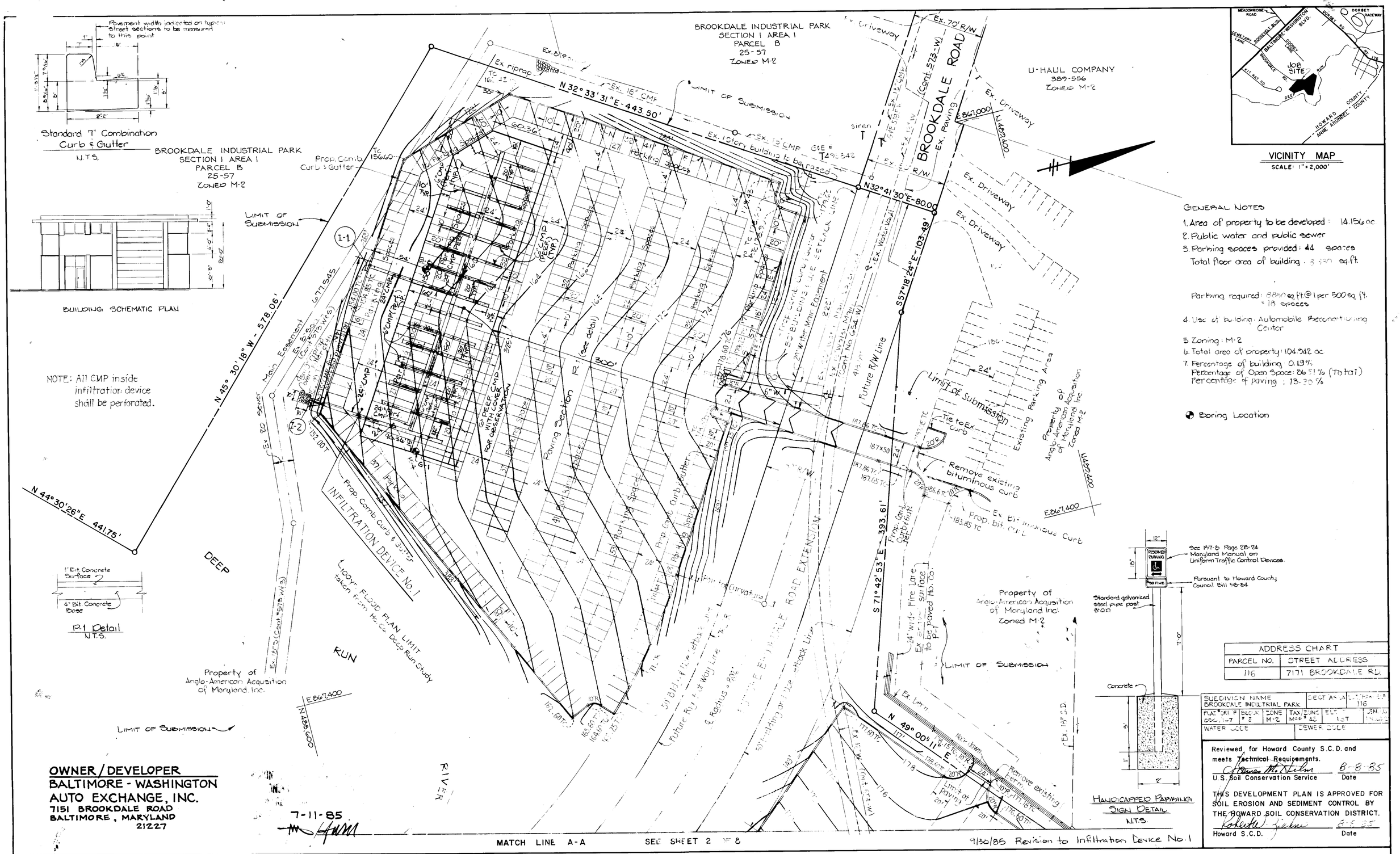


VICINITY MAP
SCALE: 1" = 2,000'

General Notes

1. Area of property to be developed: 14.156 ac
2. Public water and public sewer
3. Parking spaces provided: 44 spaces
   Total floor area of building: 8,850 sq.ft.

   Parking required: 8850 sq.ft. @ 1 per 500 sq.ft. = 18 spaces
4. Use of building: Automobile Reconditioning Center
5. Zoning: M-2
6. Total area of property: 104.342 ac
7. Percentage of building: 0.19%
   Percentage of Open Space: 86.51% (Total)
   Percentage of paving: 13.30%

Boring Location

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
116	7171 BROOKDALE RD.

SUBDIVISION NAME	DEED REF.	LOT NO.
BROOKDALE INDUSTRIAL PARK		116

PLAT NO. SEC. 1-7	BLOCK NO. E	ZONE M-2	TAX/ZONE MAP NO. 42	ELEC. 1ST	SEN. DIST.
WATER CODE		SEWER CODE			

Reviewed for Howard County S.C.D. and meets Technical Requirements.

U.S. Soil Conservation Service — Date 8-8-85

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

Howard S.C.D. — Date 8-5-85

OWNER / DEVELOPER
BALTIMORE - WASHINGTON AUTO EXCHANGE, INC.
7151 BROOKDALE ROAD
BALTIMORE, MARYLAND 21227

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 ROAD.
HOWARD CO. DEPT. OF PUBLIC WORKS
DIRECTOR — DATE 8-9-85
CHIEF, BUREAU OF ENGINEERING — DATE 8-9-85

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8/13/85

APPROVED:
HOWARD CO. OFFICE OF PLANNING & ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. — DATE 8-13-85
PLANNING DIRECTOR — DATE 8-13-85

DEVELOPER'S CERTIFICATION
I CERTIFY THAT ALL DEVELOPMENT & 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 APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT.

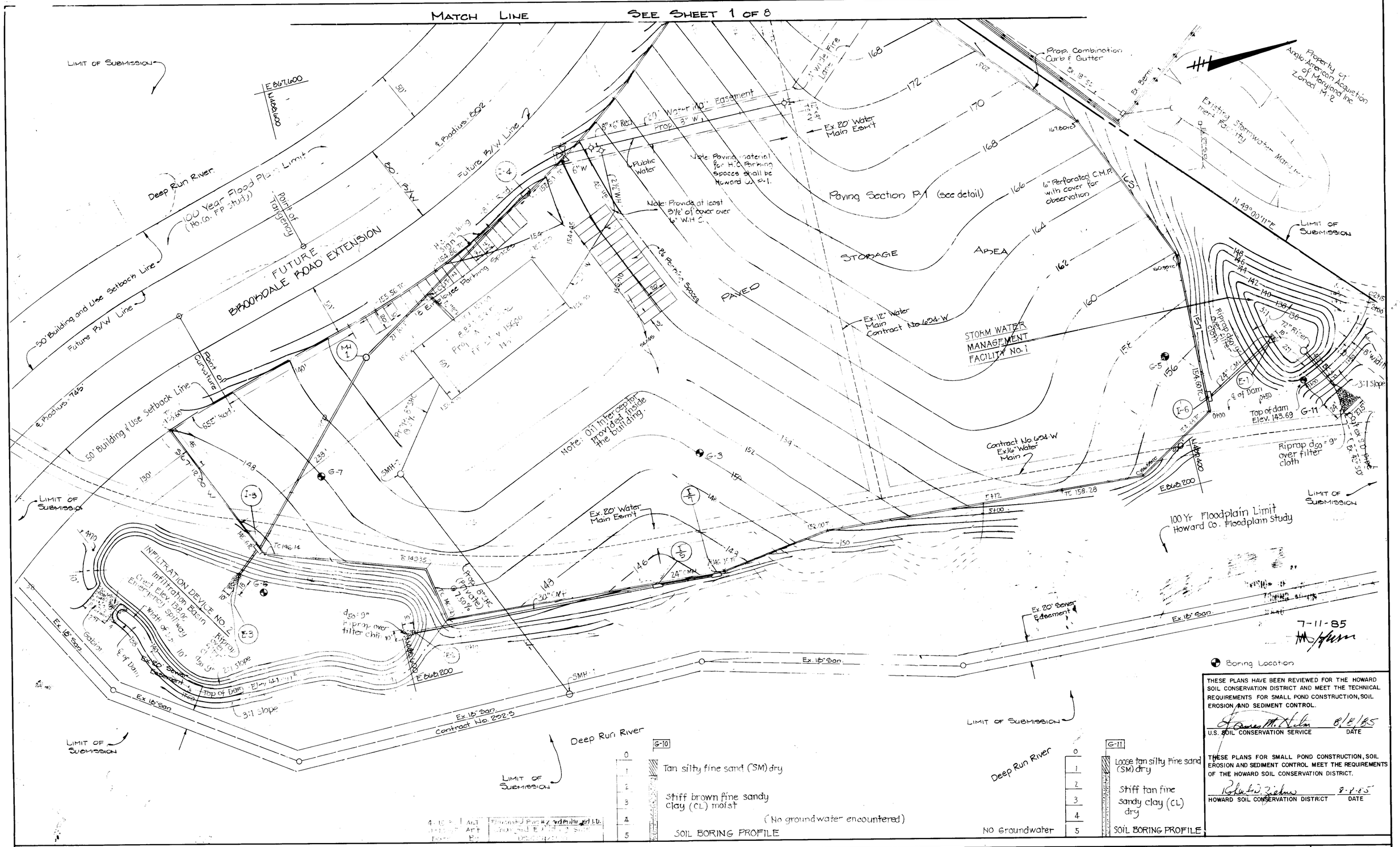
ENGINEER'S CERTIFICATION
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRATICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

ANGLO AMERICAN ACQUISITION OF MARYLAND, INC.
BROOKDALE INDUSTRIAL PARK, PARCEL 116
SITE PLAN
& STORM WATER MANAGEMENT FACILITY PLAN
FIRST ELECTION DISTRICT — HOWARD COUNTY, MD.
JANUARY 16, 1985 — SCALE: 1" = 40'

SHEET 1 OF 8
DES:
DRW'N:
CHK:

SDP-85-172

BRUNING ANE 1M3-2



G-10

Tan silty fine sand (SM) dry

Stiff brown fine sandy clay (CL) moist

(No groundwater encountered)

SOIL BORING PROFILE

G-11

Loose tan silty fine sand (SM) dry

Stiff tan fine sandy clay (CL) dry

NO Groundwater

SOIL BORING PROFILE

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 8/8/85

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 8-8-85

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 ROAD.
HOWARD CO. DEPT. OF PUBLIC WORKS
DIRECTOR — DATE 8-9-85
CHIEF, BUREAU OF ENGINEERING — DATE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8/8/85

APPROVED:
HOWARD CO. OFFICE OF PLANNING & ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. — DATE 8-13-85
PLANNING DIRECTOR — DATE 8-13-85

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 DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

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 CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. — DATE 4/5/85

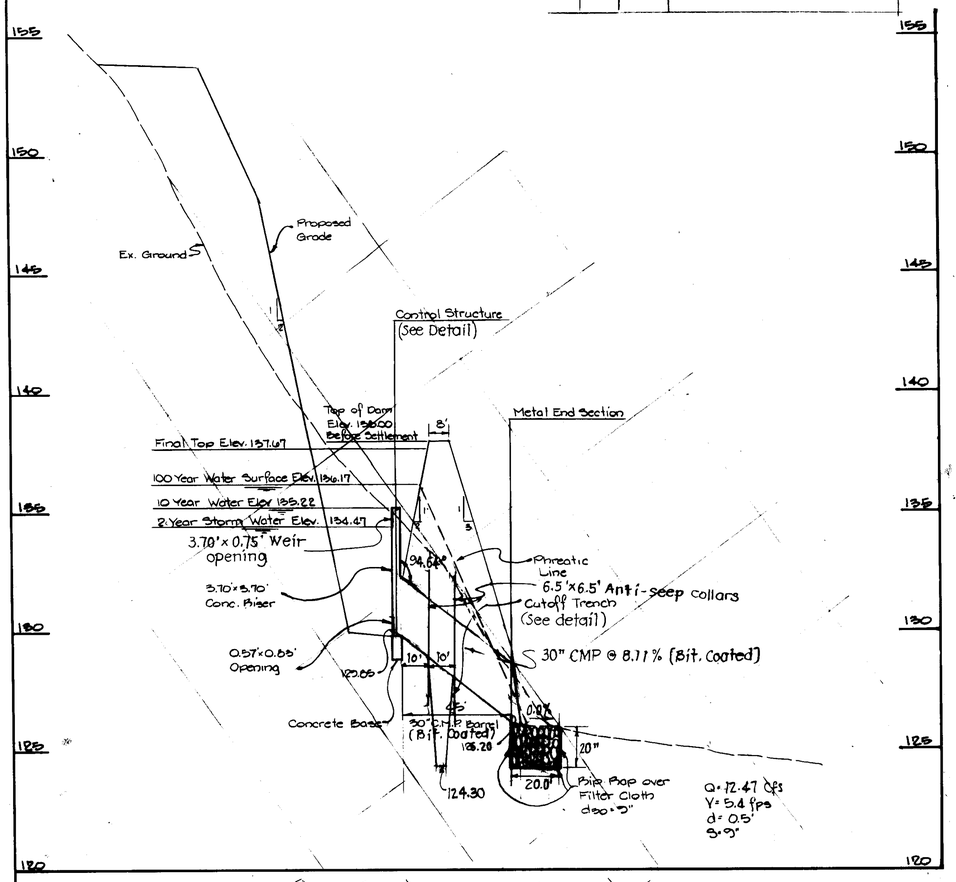
ANGLO AMERICAN ACQUISITION OF MARYLAND, INC.
BROOKDALE INDUSTRIAL PARK, PARCEL 116
SITE PLAN
& STORM WATER MANAGEMENT FACILITY PLAN
FIRST ELECTION DISTRICT HOWARD COUNTY MD.
JANUARY 11, 1985 SCALE 1" = 40'

SHEET 2 OF 8
DES:
DRW'N:
CHK:

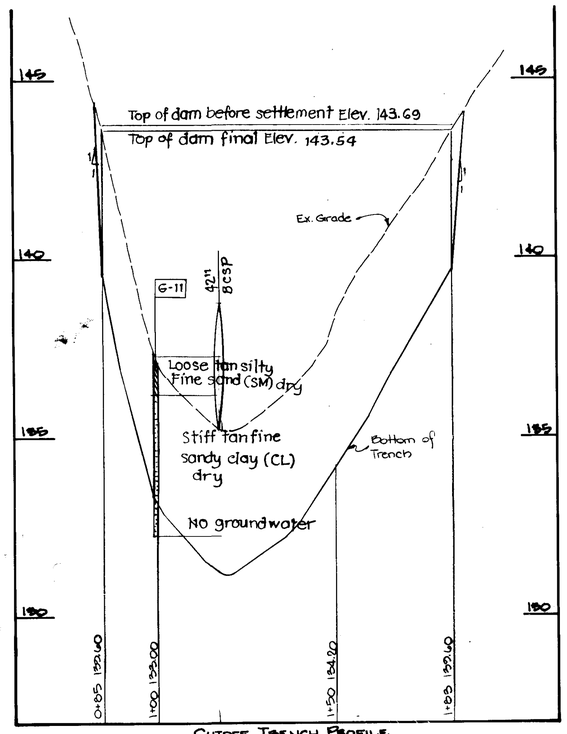
SDP-85-172

BRUNING ANE 1M3-2

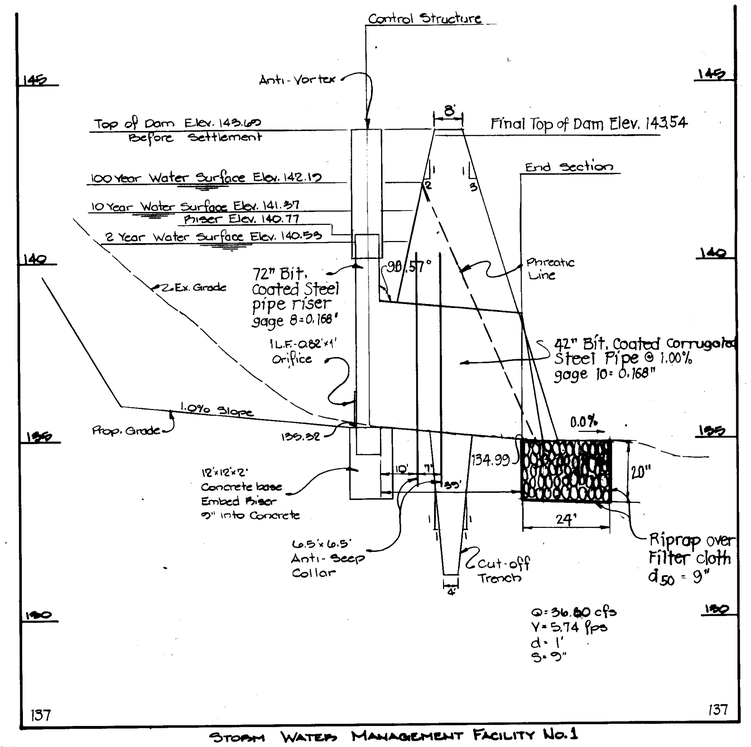
DATE	BY	REVISION
4-15-86	ARJ	CROSSED OUT SWM #2 PROFILES



STORM WATER MANAGEMENT FACILITY No. 2
SCALE 1"=20' HOR. 1"=3' VERT.

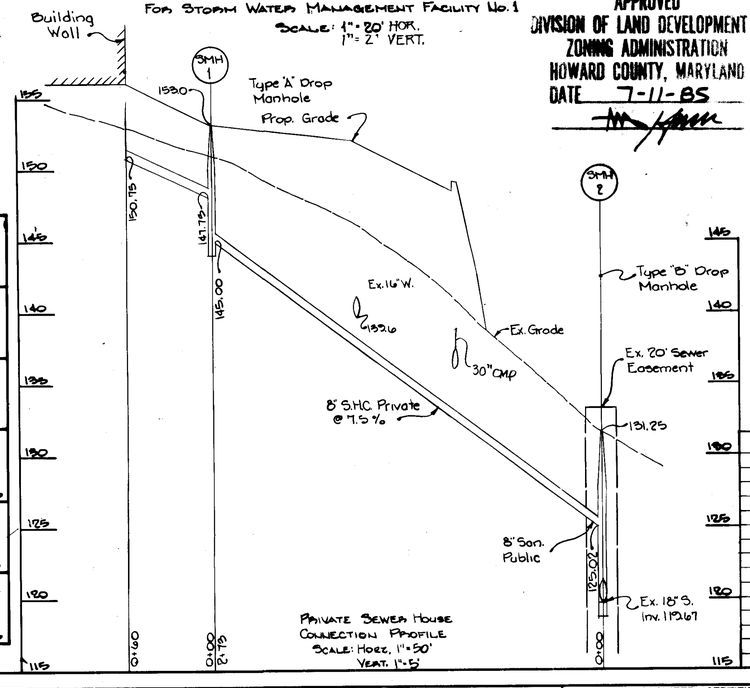


CUTOFF TRENCH PROFILE
FOR STORM WATER MANAGEMENT FACILITY No. 1
SCALE: 1"=20' HOR. 1"=2' VERT.

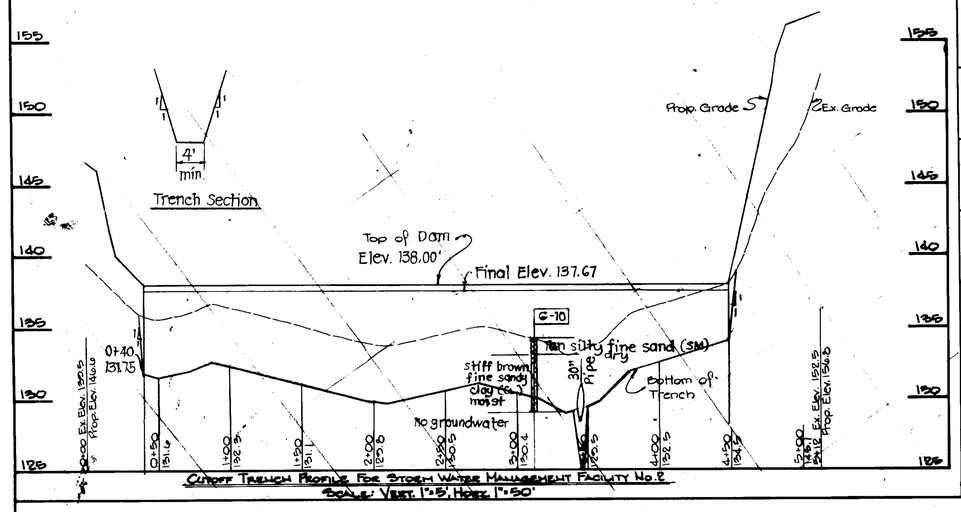


STORM WATER MANAGEMENT FACILITY No. 1
SCALE: 1"=20' HOR. 1"=2' VERT.

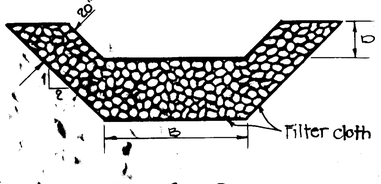
APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 7-11-85



PRIVATE SEWER HOUSE CONNECTION PROFILE
SCALE: HORZ. 1"=50' VERT. 1"=5'

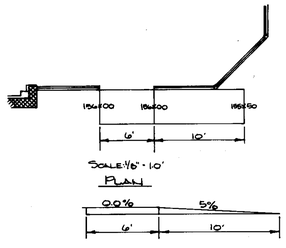


CUTOFF TRENCH PROFILE FOR STORM WATER MANAGEMENT FACILITY No. 2
SCALE: VERT. 1"=5', HORZ. 1"=50'



RIP-RAP DETAIL
N.T.S.

OUTFALL	B	D
E-1	4	—
E-2	~~3~~	~~7.5~~
E-3	—	—
S.W.M. No. 1 Outfall	7'	1.5
S.W.M. No. 2 Outfall	~~4'~~	~~1.5'~~



HANDICAPPED RAMP DETAIL & PROFILE
SCALE: AS SHOWN

STRUCTURE SCHEDULE

No.	Type	Inv. In	Inv. Out	Top Elev.	Remarks
I-1	A-10	146.50	146.50	154.00	S.D.4.02
I-2	A-10	146.50	146.50	152.00	S.D.4.02
I-3	A-10	137.00	134.25	145.30	S.D.4.02
I-4	A-10	—	147.75	152.50	S.D.4.02
I-5	A-10	—	140.75	145.37	S.D.4.02
I-6	A-10	—	148.00	154.60	S.D.4.02
I-7	A-10	136.55	134.05	147.14	S.D.4.02
MH-1	S.D. Recast MH	145.49	145.29	155.00	G.5.11
E-1	Metal	—	—	138.75	S.D.5.61
E-2	End Section	—	—	133.05	S.D.5.61
E-3	Metal End Section	—	—	133.75	S.D.5.61
S.W.M. 1	Metal End Section	—	—	129.50	S.D.5.61
S.W.M. 2	Metal End Section	—	—	138.49	S.D.5.61

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 8/8/85

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 8-8-85

BURDUM & 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 8-9-85
CHIEF, BUREAU OF ENGINEERING — DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPT.
COUNTY HEALTH OFFICER — DATE 8/13/85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING.
CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. — DATE 8-13-85
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 DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
DATE 8/5/85

ENGINEER CERTIFICATION
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
WILLIAM G. RASCH, II — DATE 6/6/85

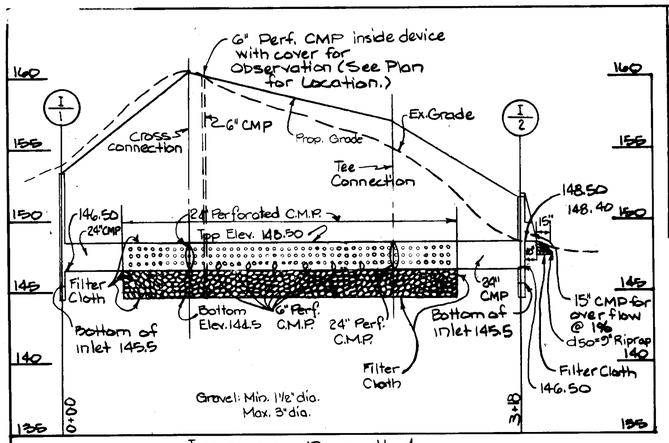
STATE OF MARYLAND — WILLIAM G. RASCH — No. 8194 — PROFESSIONAL ENGINEER

ANGLO AMERICAN ACQUISITION OF MARYLAND INC.
BROOKDALE INDUSTRIAL PARK, PARCEL 116
STORM WATER MANAGEMENT PROFILES
FIRST ELECTION DISTRICT HOWARD COUNTY MD.
JUNE ,1985 SCALE: AS SHOWN

SHEET 3 OF 8
DES: A.T.B.
DRWN: T.D.E.
CHK: A.T.B.

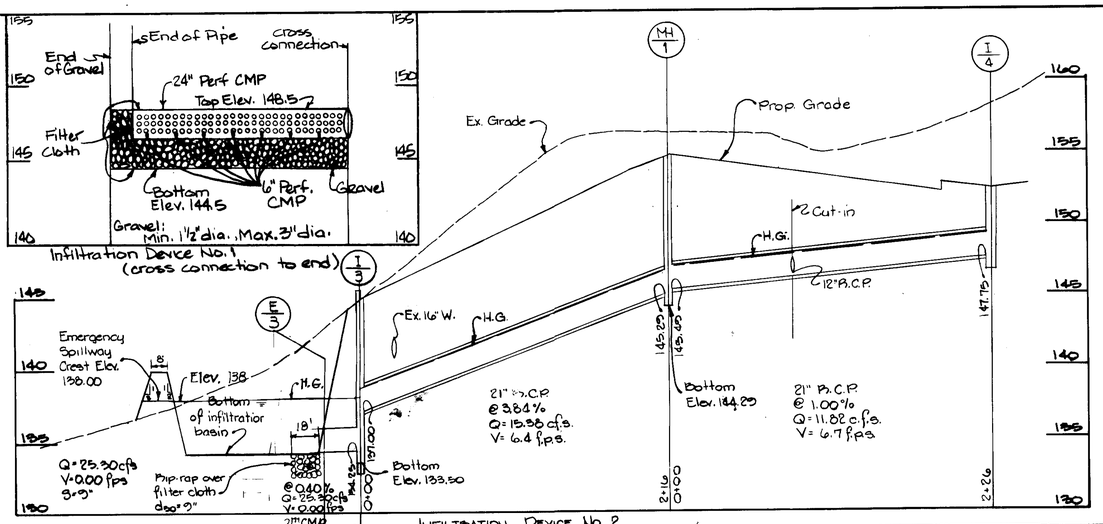
SDP-85-172

BRUNING ANE 1M3-2

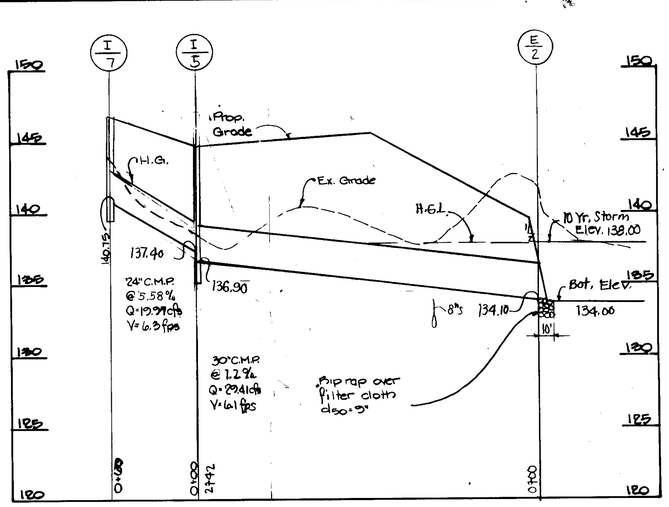


INFILTRATION DEVICE No. 1
SCALE: HORZ. 1"=50'
VERT. 1"=5'

Infiltration Device No. 1
(cross connection to end)

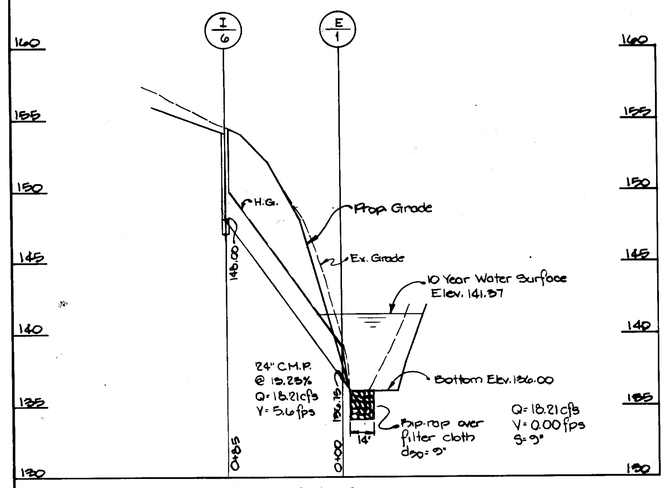


INFILTRATION DEVICE No. 2
SCALE: HORZ. 1"=50'
Vert. 1"=5'

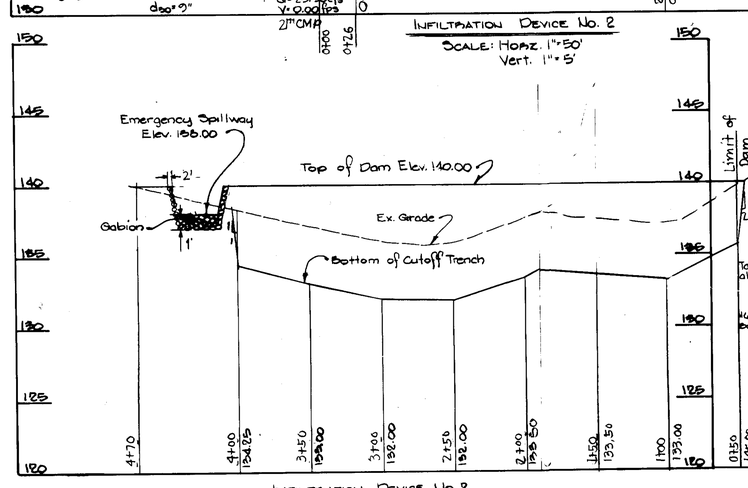


STORM DRAIN PROFILE
SCALE: HORZ. 1"=50'
Vert. 1"=5'

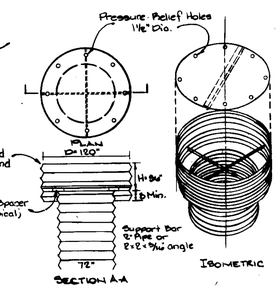
DATE	BY	REVISION
4-15-86	ART	CHANGED OUT SWM #2 DETAIL 4
		REVISED PROFILES



STORM DRAIN PROFILE
SCALE: HORZ. 1"=50'
Vert 1"=5'



INFILTRATION DEVICE No. 2
CUT-OFF TRENCH PROFILE
SCALE: HORZ. 1"=50'
Vert. 1"=5'



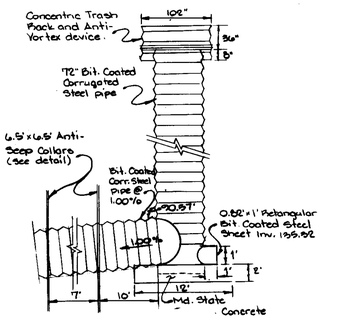
Top Stiffener
2"x2"x¼" angle welded to top and oriented perpendicular to corrugations.

Top is 8 gage corrugated metal or 1/8" steel plate pressure relief holes may be omitted, 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 firmly 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.

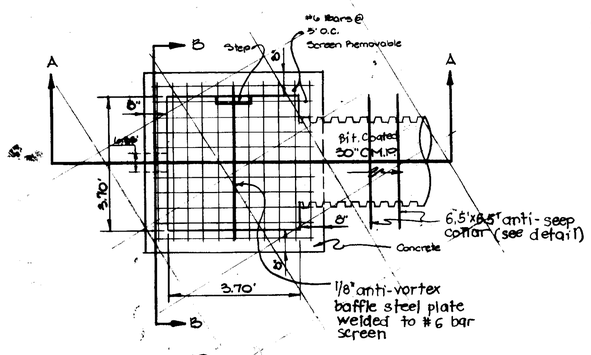
ANTI-VORTEX & TRASH RACK DETAIL
NO SCALE



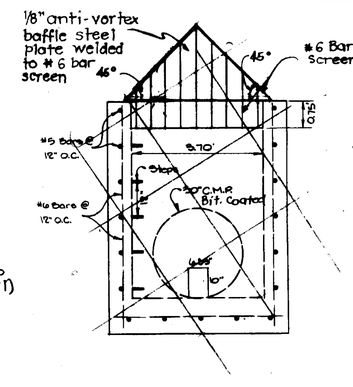
PRINCIPAL & EMERGENCY SPILLWAY DETAIL
NO SCALE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 7-11-85

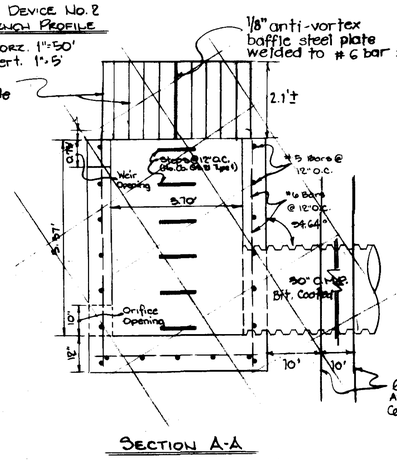
STORM WATER MANAGEMENT FACILITY No. 1
STRUCTURE DETAIL



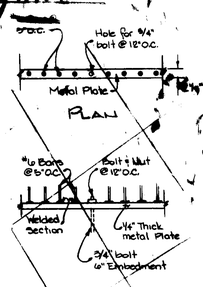
PLAN
1"=20'



SECTION B-B
1"=20'



SECTION A-A
1"=20'



SCREEN DETAIL
NO SCALE

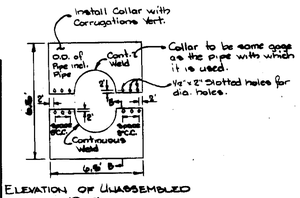
STORM WATER MANAGEMENT FACILITY No. 2

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.

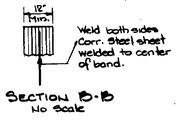
8/8/85
U.S. Soil Conservation Service — Date

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

8-8-85
Howard Soil Conservation District — Date



ELEVATION OF UNASSEMBLED DETAIL



SECTION B-B
No Scale

DETAILS OF CORRUGATED STEEL* ANTI-SEEP COLLAR
*ALTERNATE - METAL SHEET
NO SCALE
STORM WATER MANAGEMENT FACILITY No. 1 & No. 2

9/30/85 Revised. Infiltration Device No. 1

BURDUM & 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 DEPT.
8-17-85
COUNTY HEALTH OFFICER — DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING.
8-13-85
CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. — DATE
8-13-85
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 DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
8/5/85
DATE

ENGINEER CERTIFICATION
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6/6/85
WILLIAM G. RASCH, II — DATE

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER — WILLIAM G. RASCH, II

ANGLO AMERICAN ACQUISITION OF MARYLAND, INC.
BROOKDALE INDUSTRIAL PARK, PARCEL 116
STORM WATER MANAGEMENT & STORM DRAIN PROFILES AND DETAILS
FIRST ELECTION DISTRICT HOWARD COUNTY MD.
JUNE 1985 SCALE: AS SHOWN

SHEET 4 OF 8
DES: A.T.R.
DRWN: T.D.E.
CHK: A.T.R.

SDP-85-172

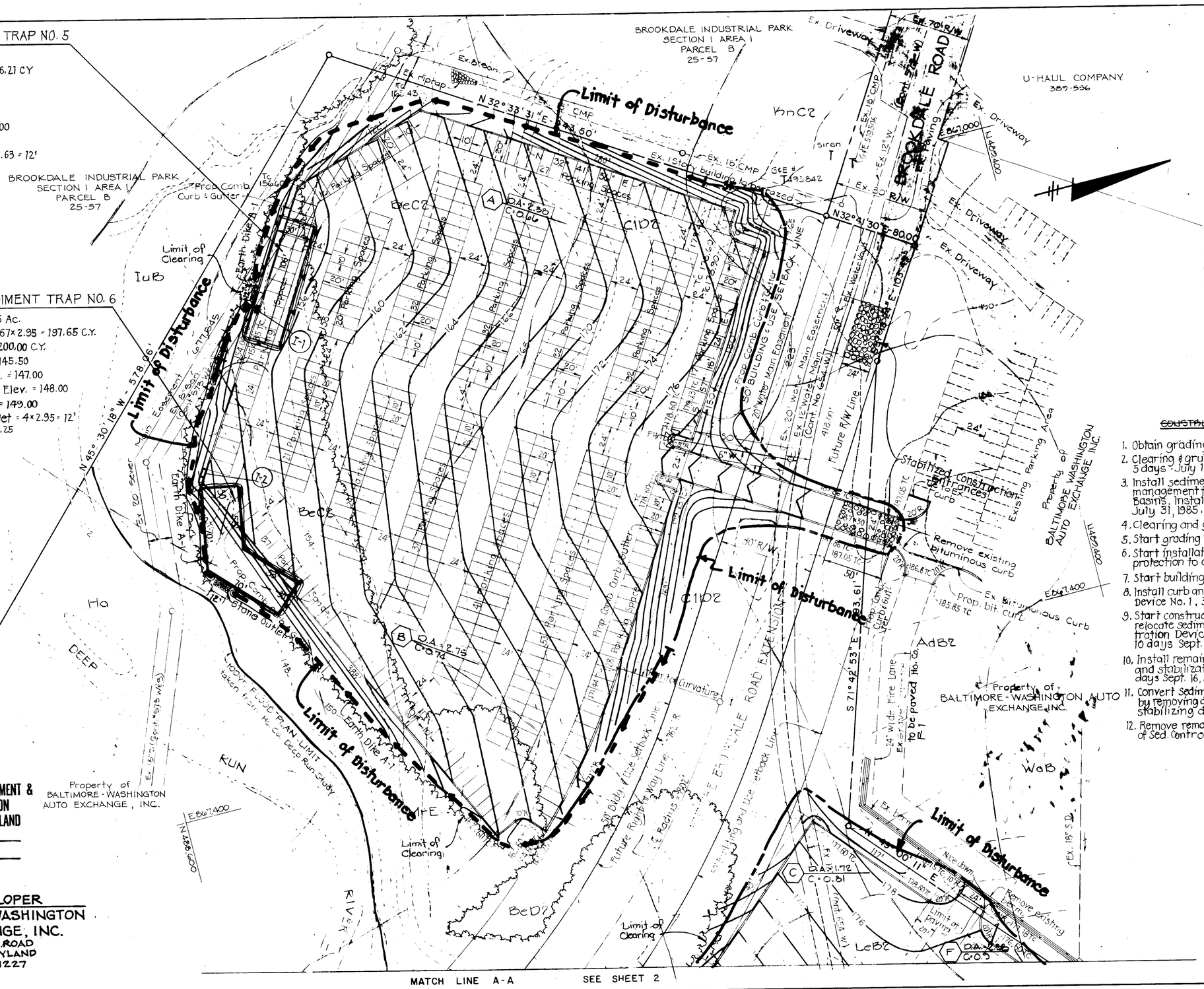
BRUNING ANE 1M3-2

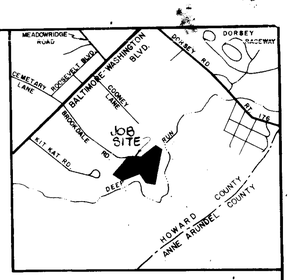
STONE OUTLET SEDIMENT TRAP NO. 5

Drainage Area = 2.63 Ac.
Volume Required = 67 × 2.63 = 176.21 CY
Volume Provided = 176.67 CY
Bottom Elev. = 151.50
Storage Limit Elev. = 153.00
Stone Outlet Crest Elev. = 154.00
Earth Dike Elev. = 155.00
Length of Stone Outlet = 4 × 2.63 = 12'
Cleanout Elev. = 152.25

STONE OUTLET SEDIMENT TRAP NO. 6

Drainage Area = 2.95 Ac.
Volume Required = 67 × 2.95 = 197.65 C.Y.
Volume Provided = 200.00 C.Y.
Bottom Elevation = 145.50
Storage Limit Elev. = 147.00
Stone Outlet Crest Elev. = 148.00
Earth Dike Elev. = 149.00
Length of Stone Outlet = 4 × 2.95 = 12'
Cleanout Elev. = 146.25





VICINITY MAP
SCALE: 1" = 2,000'

GENERAL NOTES

1. Area of property to be developed: 14.156 ac.
2. Public water and public sewer
3. Parking spaces provided: 400 spaces
   Total floor area of building: 20,290 sq.ft.
   Office area: 3450 sq.ft.
   Parking required: 3450 sq.ft. @ 1 per 200 sq.ft. = 18 spaces
4. Use of building: Automobile Reconditioning Center
5. Zoning M-2
6. Total area of property: 104.942 ac.

~~CONSTRUCTION SEQUENCE~~

1. Obtain grading permit - 19 days - Jun. 10, 1985 - Jun. 28, 1985.
2. Clearing & grubbing for the installation of perimeter controls. 5 days - July 1, 1985 to July 5, 1985.
3. Install sediment control devices and construct storm water management facility Nos. 1 & 2 to be used as Sediment Basins. Install dewatering devices. - 18 days - July 8, 1985 - July 31, 1985.
4. Clearing and grubbing of site - 10 days - July 8, 1985 - Jul. 19, 1985
5. Start grading to subgrade - 25 days - July 15, 1985 - Aug. 16, 1985
6. Start installation of storm drain, water and sewer. Provide protection to all inlets - 10 days - Aug. 5, 1985 - Aug. 16, 1985.
7. Start building construction - 30 days - Aug. 19, 1985 - Sept. 27, 1985.
8. Install curb and gutter and paving, except at Infiltration Device No. 1, 30 days - Aug. 19, 1985 - Sept. 27, 1985.
9. Start construction of Infiltration Device Nos. 1 & 2. Remove or relocate sediment traps if necessary to fully construct Infiltration Devices as per approval of sediment control inspector, 10 days Sept. 9, 1985 - Sept. 20, 1985.
10. Install remaining curb & gutter and paving. Final grading and stabilization of disturbed areas not to be paved. 34 days Sept. 16, 1985 - Oct. 31, 1985.
11. Convert Sediment Basin Nos. 1 & 2 into S.W.M. Fac. Nos. 1 & 2 by removing dewatering devices, reshaping the ponds and stabilizing disturbed areas. 20 days - Oct. 7, 1985 - Nov. 1, 1985.
12. Remove remaining sediment control devices as per approval of Sed. Control Inspector - 20 days Nov. 4, 1985 - Nov. 29, 1985.

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
116	7151 BROOKDALE RD.

SUBDIVISION NAME						
BROOKDALE INDUSTRIAL PARK					LOT	PARCEL 116
PLAT ORL F 850/147	BLOCK E	ZONE M-2	TAX/ZONE MAP	ELEC. DIST. 1ST		SENSUS TR. 6001
WATER CODE			SEWER CODE			

Reviewed for Howard County S.C.D. and meets Technical Requirements.
U.S. Soil Conservation Service — Date 8/8/85

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Howard S.C.D. — Date 8/8/85

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 7-11-85

OWNER / DEVELOPER
BALTIMORE - WASHINGTON AUTO EXCHANGE, INC.
7151 BROOKDALE ROAD
BALTIMORE, MARYLAND 21227

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 ROAD.
HOWARD CO. DEPT. OF PUBLIC WORKS
DIRECTOR — DATE 8-13-85
CHIEF, BUREAU OF ENGINEERING — DATE 8-13-85

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-12-85

APPROVED
HOWARD CO. OFFICE OF PLANNING & ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. — DATE 8-13-85
PLANNING DIRECTOR — DATE 8-13-85

DEVELOPER'S CERTIFICATION

I CERTIFY THAT ALL DEVELOPMENT & 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 APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT.

ENGINEER'S CERTIFICATION

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRATICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. — 4/5/85

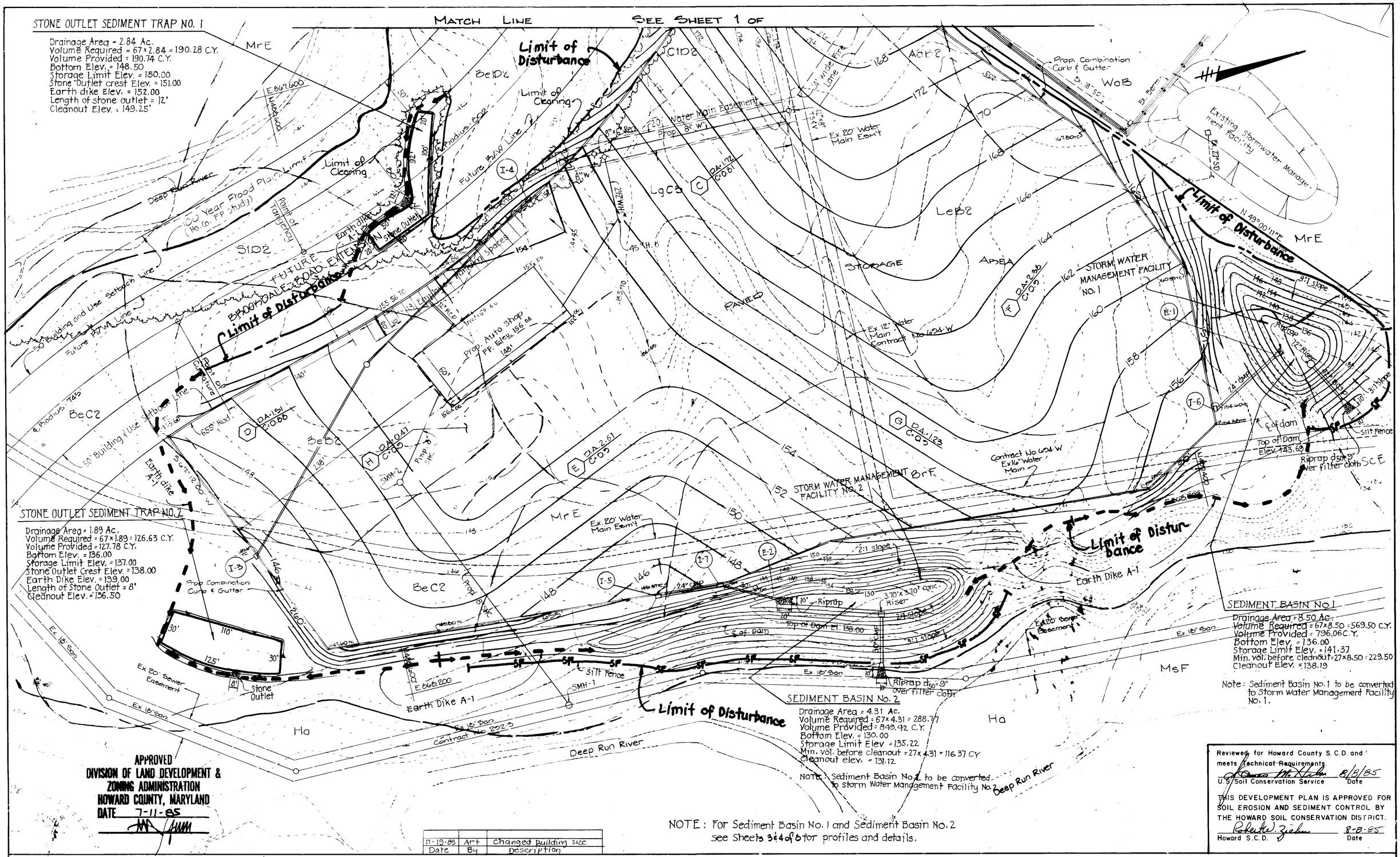
STATE OF MARYLAND — ALLEN T. PURDUM — REGISTERED PROFESSIONAL ENGINEER

ANGLO AMERICAN ACQUISITION OF MARYLAND, INC.
BROOKDALE INDUSTRIAL PARK, PARCEL 116
SEDIMENT CONTROL PLAN
SOIL MAP & STORM DRAINAGE AREA MAP
FIRST ELECTION DISTRICT — HOWARD COUNTY MD.
JANUARY 16, 1985 — SCALE: 1" = 40'

SHEET 5 OF 8
DES: ATR
DRW'N: TE
CHK: ATR

SDP-85-172

BRUNING ANE 1M3-2



NOTE: For Sediment Basin No. 1 and Sediment Basin No. 2 see Sheets 3 & 4 of 8 for profiles and details.

Date	By	Description
11-13-85	Art	Changed building size

Reviewed for Howard County S.C.D. and meets technical Requirements.

U.S. Soil Conservation Service — Date 8/8/85

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

Howard S.C.D. — Date 8-8-85

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 ROAD.
HOWARD CO. DEPT. OF PUBLIC WORKS
DIRECTOR — DATE 8-9-85
CHIEF, BUREAU OF ENGINEERING — DATE 8/9/85

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-13-85

APPROVED:
HOWARD CO. OFFICE OF PLANNING & ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. — DATE 8-13-85
PLANNING DIRECTOR — DATE 8-13-85

DEVELOPER'S CERTIFICATION

I CERTIFY THAT ALL DEVELOPMENT & 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 APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT.

ENGINEER'S CERTIFICATION

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4/5/85

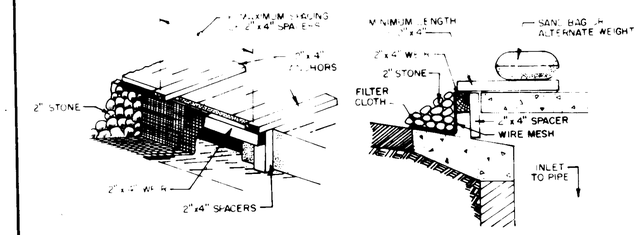
STATE OF MARYLAND — No. 4576 — Professional Engineer

ANGLO AMERICAN ACQUISITION OF MARYLAND, INC.
BROOKDALE INDUSTRIAL PARK, PARCEL 116
SEDIMENT CONTROL PLAN
SOIL MAP & STORM DRAINAGE AREA MAP
FIRST ELECTION DISTRICT — HOWARD COUNTY MD.
JANUARY 11, 1985 — SCALE 1" = 40'

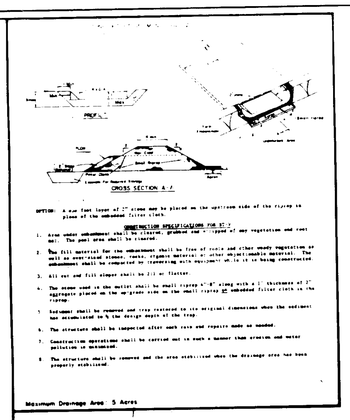
SHEET 6 OF 8.
DES: ATR
DRW'N: TE
CHK: ATR

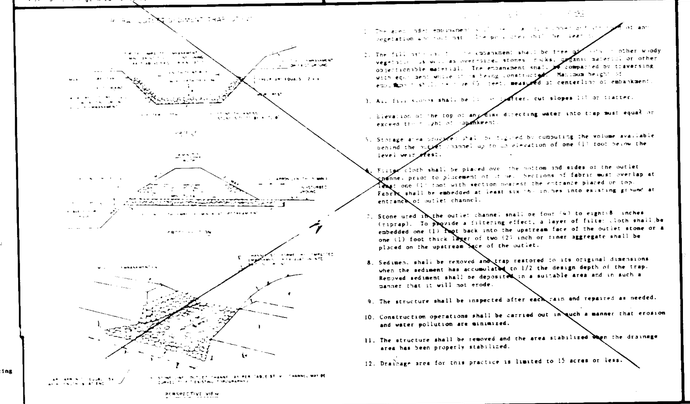
SDP-85-172

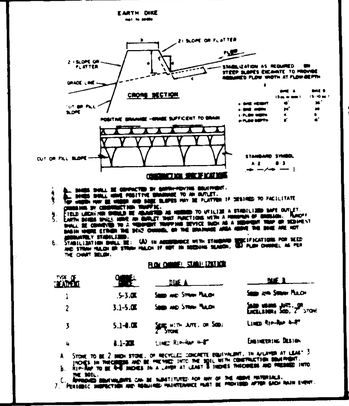
BRUNING ANE 1M3-2

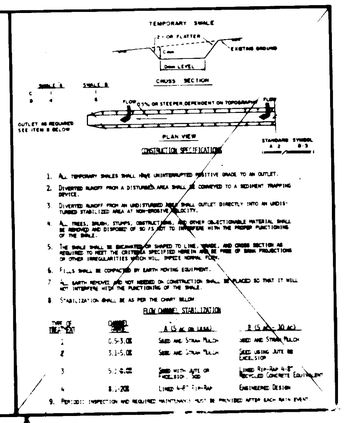


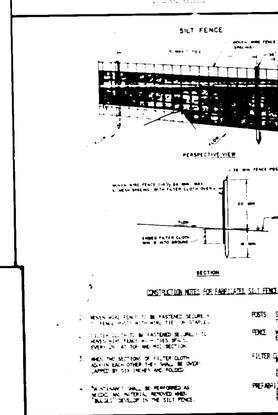
CURB INLET PROTECTION DETAIL

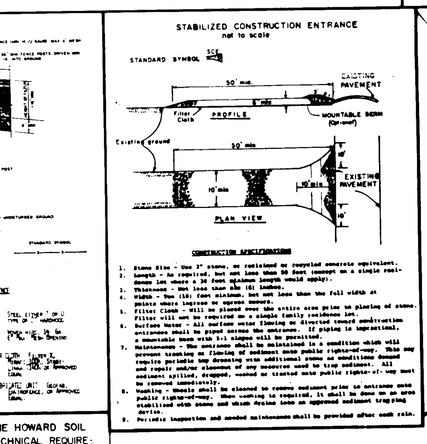


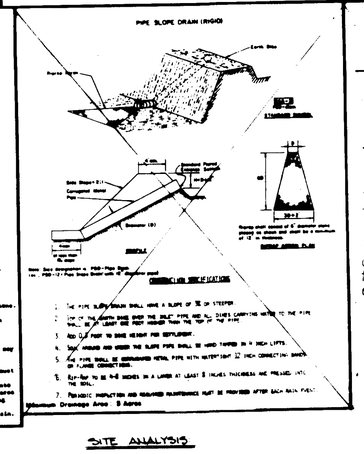


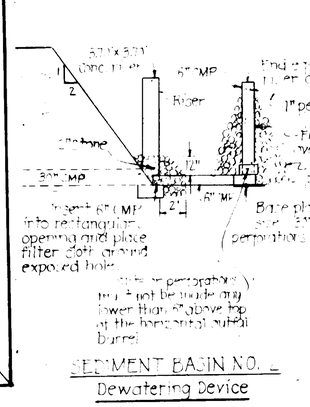




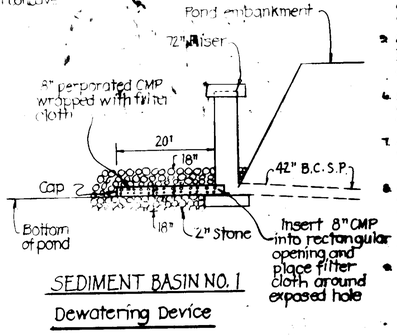




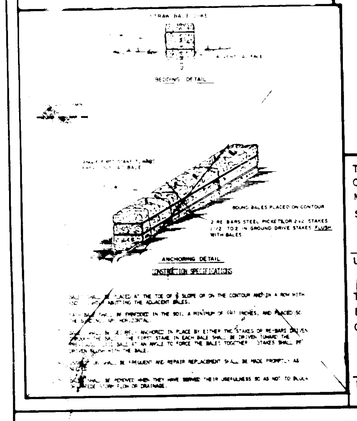




SEDIMENT BASIN NO. 2
Dewatering Device



SEDIMENT BASIN NO. 1
Dewatering Device



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 8/8/85

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 8/8/85

SITE ANALYSIS

Total Area of Site	104.34 Acres
Area Disturbed	44.194 Acres
Area to be roofed or paved	12.034 Acres
Area to be vegetatively stabilized	1.50 Acres
Total Cut	51,691 C.Y.
Total Fill	38,765 C.Y.
Offsite waste/borrow area location	None

Note: A minimum of 24 hours notice must be given to the Ho. Co. Office of Inspection and Permits prior to the start of any construction. (992-2437)

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 7-11-85

PERMANENT VEGETATIVE ESTABLISHMENT

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 lb per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).

2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding - For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well-anchored straw.

Mulching - Apply 1½ to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

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

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

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

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

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2½ bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1½ to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

GENERAL NOTES

1. Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within:
   1) Seven calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1,
   2) Fourteen days as to all other disturbed or graded areas on the project site.
2. All sediment traps shown must be fenced and warning signs posted around their perimeter in accordance with Vol. I, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
3. 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
4. All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
5. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
6. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
7. Additional sediment controls must be provided, if deemed necessary by the Howard County D.P.W. sediment control inspector.
8. On all sites with disturbed areas in excess of 2 acres, approval of the sediment control plan by the soil conservation district must be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the soil conservation district is made.
9. On all sites with disturbed areas in excess of 2 acres, approval of the sediment control plan shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the soil conservation district has been made.

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 ROAD.
HOWARD CO. DEPT. OF PUBLIC WORKS
DIRECTOR — DATE
CHIEF, BUREAU OF ENGINEERING — DATE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-13-85

APPROVED:
HOWARD CO. OFFICE OF PLANNING & ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN — DATE 8-13-85
PLANNING DIRECTOR — DATE 8-13-85

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 DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION. BEFORE BEGINNING THE PROJECT I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. — DATE 8/15/85

ENGINEER'S CERTIFICATION

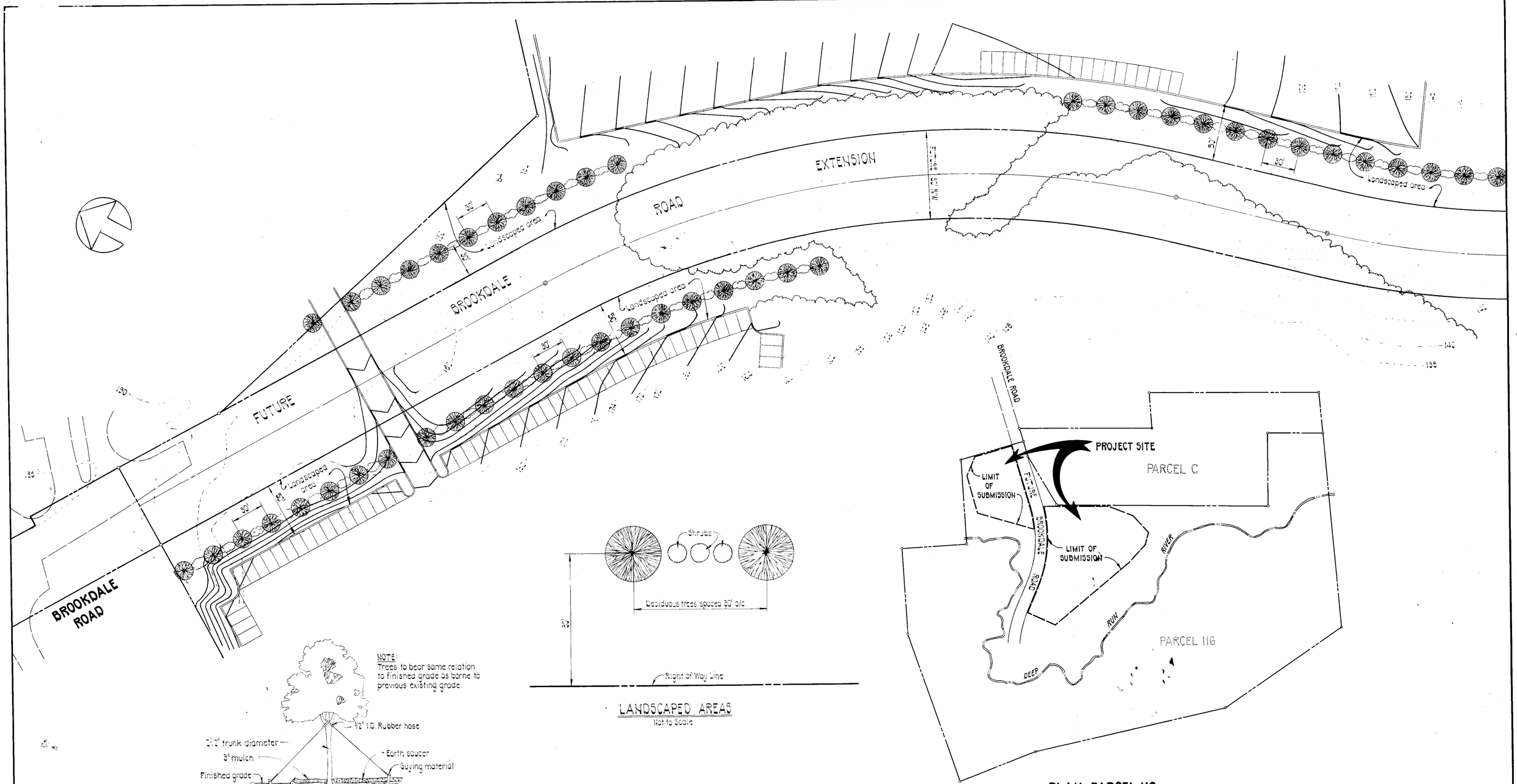
I HAVE VISITED THE DEVELOPER THAT AS BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. — DATE 8/15/85

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER

ANGLO AMERICAN ACQUISITION OF MARYLAND INC.
BROOKDALE INDUSTRIAL PARK, PARCEL 116
SEDIMENT CONTROL DETAILS & POND CONSTRUCTION SPECIFICATIONS
FIRST ELECTION DISTRICT HOWARD COUNTY, MD.
JANUARY 11, 1985 — SCALE 1" = 40'

SHEET 7 OF 8
DES: ATR
DRW'N: TT
CHK: ATR

SDP-85-172



LANDSCAPED AREAS
Not to Scale

PLAN-PARCEL 116
Scale: 1"=300'

DECIDUOUS TREE PLANTING DETAIL
Not to Scale

APPROVED
DIVISION OF LAND DEVELOPMENT
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 7-11-85

Reviewed for Howard Soil Conservation District and meets technical requirements.
U.S. Soil Conservation District — Date 8/8/85

This Development Plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
Howard Soil Conservation District — Date 8/8/85

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 ROAD.
HOWARD COUNTY DEPT. OF PUBLIC WORKS
DIRECTOR — DATE 8-20-85
CHIEF, BUREAU OF ENGINEERING — DATE 8/13/85

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 8-13-85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 8/13/85
PLANNING DIRECTOR — DATE 8-13-85

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 DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT.
DATE

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 CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
WILLIAM G. RASCH, II — NO. 4575 — DATE 5/3/85

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER

ANGLO AMERICAN ACQUISITION
OF MARYLAND INC.
BROOKDALE INDUSTRIAL PARK, PARCEL 116
LANDSCAPING PLAN AND DETAILS
PLAN OF ENTIRE PARCEL 116
FIRST ELECTION DISTRICT — HOWARD COUNTY, MD.
SCALE: 1"=40'

SHEET 8 OF 8
DES: A.T.R.
DRW'N: A.R.W.
CHK: A.T.R.

SDP-85-172

BRUNING AKE 1M3-2