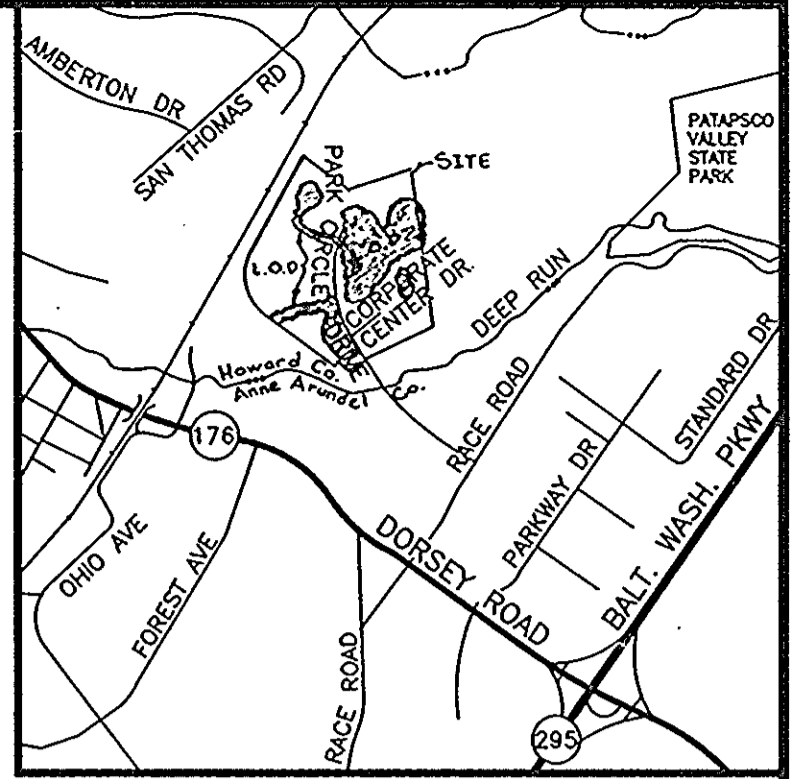


PARKWAY CENTER

GRADING AND SEDIMENT CONTROL PLAN



VICINITY MAP
SCALE: 1"=4000'

SEQUENCE OF CONSTRUCTION

- Phase I (1 Month)**
- Obtain grading permit.
 - Install stabilized construction entrances.
 - Install snow fence as shown around all tree save areas.
 - Clear minimum area necessary and install sediment traps, earth dikes, silt fence, and riprap inflow protection as shown.
 - Clear minimum area necessary and install sediment basin (SMB) facilities including riprap protection, earth dikes, and silt fence. Remove existing riser structure and replace as shown for SMB #1.
- Note: Obtain approval from Md. Professional Engineer and Sediment Control Inspector prior to beginning Phase II.
- Phase II (3 Months)**
- Clear and strip remaining area at the site. DO NOT DISTURB THE WETLANDS and/or BUFFERS IN AREAS SO INDICATED.
 - Install temporary crossing at railroad including temporary culvert, relocated riprap channel, CR-6 base in ree shown.
 - Upon obtaining wetland permits, clear minimum area necessary and install sediment trap #1 and additional earth dike. Clear remaining woods and fill as shown on insert "A" sheet 12. Stabilize this area immediately upon completion of work.
 - Stabilize all disturbed area.
- PHASE III (1 Month)**
- Upon stabilization of all disturbed areas remove all earth dikes, silt fence, construction entrances, sediment traps excluding temporary SMB #1 and stabilize affected areas immediately.
 - Existing stormwater management ponds #1 & #2 shall be cleaned after grading is completed and all areas stabilized.
- (NOTE: REMOVAL OF EXISTING STORMWATER MANAGEMENT FACILITIES MAY NOT OCCUR WITHOUT PRIOR CONSENT FROM THE SEDIMENT CONTROL INSPECTOR.)

PERMANENT SEEDING NOTES

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 3 inches of soil by raking, discing, or other acceptable means before seeding, if not previously loosened.

Soil Amendments: Use one of the following schedules:

- Preferred- Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq. ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.) before seeding. Harrow or disc into upper 3 inches of soil. At time of seeding apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs./1000 sq. ft.).
- 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. of 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. per acre Kentucky 31 Tall Fescue, and mulch with 2 tons per acre well anchored straw.

Mulching: Apply 1 1/2 to 2 tons per acre (70-90 lbs./1000 sq. ft.) of un-rotted 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

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

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

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

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

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gal. per acre (8 gal./1000 sq. ft.) for anchoring.

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

SEDIMENT CONTROL NOTES

- All Grading Permits shall be obtained prior to the starting of any Grading work.
- 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 (313-1855).
- All vegetation 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.
- 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.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, Storm Drainage, of the Howard County Design Manual.
- 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 seeding (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 proper germination and establishment of grasses.
- 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.
- Site Analysis
Zoning: M-2
Total area of site R/W and easements: 111.4 acres
Area disturbed: 41.0 acres
Area to be roofed or paved: 0.0 acres
Area to be vegetatively stabilized: 41.0 acres
Total cut: 225,000 cu. yds.
Total fill: 5,000 cu. yds.
Offsite waste/borrow area location: M.S.H.A. Route 100 Project
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- See sheet Nos. D&E for additional Sediment and Erosion Control Notes and Details.

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- LIMIT OF DISTURBANCE
- SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- EXISTING WATER
- EXISTING SEWER
- EXISTING STORM DRAIN
- 25' WETLAND BUFFER
- LIMIT OF WETLANDS
- EXISTING WOODS TO REMAIN
- EXISTING WOODS TO BE REMOVED
- PROPOSED EARTH DIKE
- AREA OF 15-25% SLOPES
- AREA OF GREATER THAN 25% SLOPES

SHEET INDEX	
NO.	DESCRIPTION
1	COVER SHEET
2	PLAN SHEET
3	PLAN SHEET
4	PLAN SHEET
5	PLAN SHEET
6	PLAN SHEET
7	PLAN SHEET
8	SEDIMENT CONTROL DRAINAGE AREA MAP
9	SEDIMENT CONTROL DRAINAGE AREA MAP
10	SEDIMENT CONTROL DETAILS
11	SEDIMENT BASIN DETAILS
12	SEDIMENT CONTROL AND BASIN SPECIFICATIONS

EXISTING VEGETATIVE ANALYSIS

PLANT COMMUNITY	DOMINANT SPECIES	COVERAGE
OPEN FIELD	---	75%
MIXED DECIDUOUS AND EVERGREEN WOODLAND STAND	SWEET GUM (LIQUIDAMBER STYRACIFLUA) 12" DBH TULIP TREE (LIRIODENDRON TULIPIFERA) 10" DBH PIN OAK (QUERCUS PALUSTRIS) 16" DBH VIRGINIA PINE (PINUS VIRGINIANA) 6" DBH POISON IVY (RHUS RADICANS)	25%

ADDRESS CHART

PARCEL NUMBER	STREET ADDRESS
Q	7250 PARK CIRCLE DRIVE

WOODED AREA TABULATION
Total wooded area onsite (Parcel Q)=22.5 Ac.±
Wooded area within 100 ft. Flood Plain=7.9 Ac.±
Wooded area to be cleared within 100 ft. Flood Plain=0.0 Ac.
Total wooded area to be cleared (Parcel Q)=7.5 Ac.±

OWNER

COCA-COLA ENTERPRISES
9770 PATUXENT WOODS DRIVE
COLUMBIA, MARYLAND 21046
(410) 290-3249
FAX (410) 290-3015

PARKWAY CENTER
SITE DEVELOPMENT PLAN
COCA-COLA ENTERPRISES INC. PROPERTY
COVER SHEET
TAX MAP 38 SECTION 1 PARCEL Q
1 ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

JOHN E. HARMS, JR. AND ASSOCIATES, INC.
CONSULTING ENGINEERS - PLANNERS - SURVEYORS
90 GOVERNOR RITCHIE HIGHWAY PASADENA, MARYLAND 21122 P.O. BOX 5 (410) 647-6000

NO.	ADD'D NOTE #1 TO GENERAL NOTES	1-20-95
NO.	REVISION	DATE

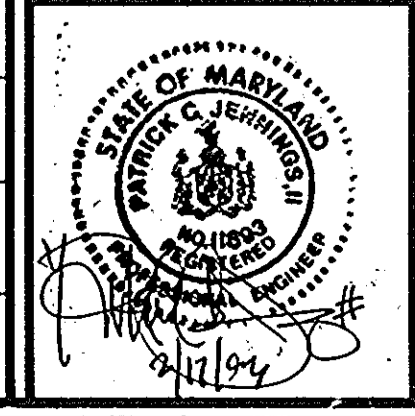
ENGINEERS CERTIFICATE
"WE HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON OUR PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT"
JOHN E. HARMS, JR. & ASSOCIATES
SIGNATURE OF ENGINEER: [Signature] DATE: 2/17/93

OWNERS CERTIFICATE
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM THE MARYLAND DEPARTMENT OF THE ENVIRONMENT'S APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY."
COCA-COLA ENTERPRISES
SIGNATURE OF OWNER: [Signature] DATE: 2/17/93

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
[Signature] DATE: 2/15/93
S. SOIL CONSERVATION SERVICE
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
APPROVED: [Signature] DATE: 2/15/93
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
[Signature] DATE: 3/10/93
DIRECTOR
[Signature] DATE: 3/16/93
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] DATE: 3/16/93
DIRECTOR
[Signature] DATE: 3-2-93
CHIEF, BUREAU OF ENGINEERING

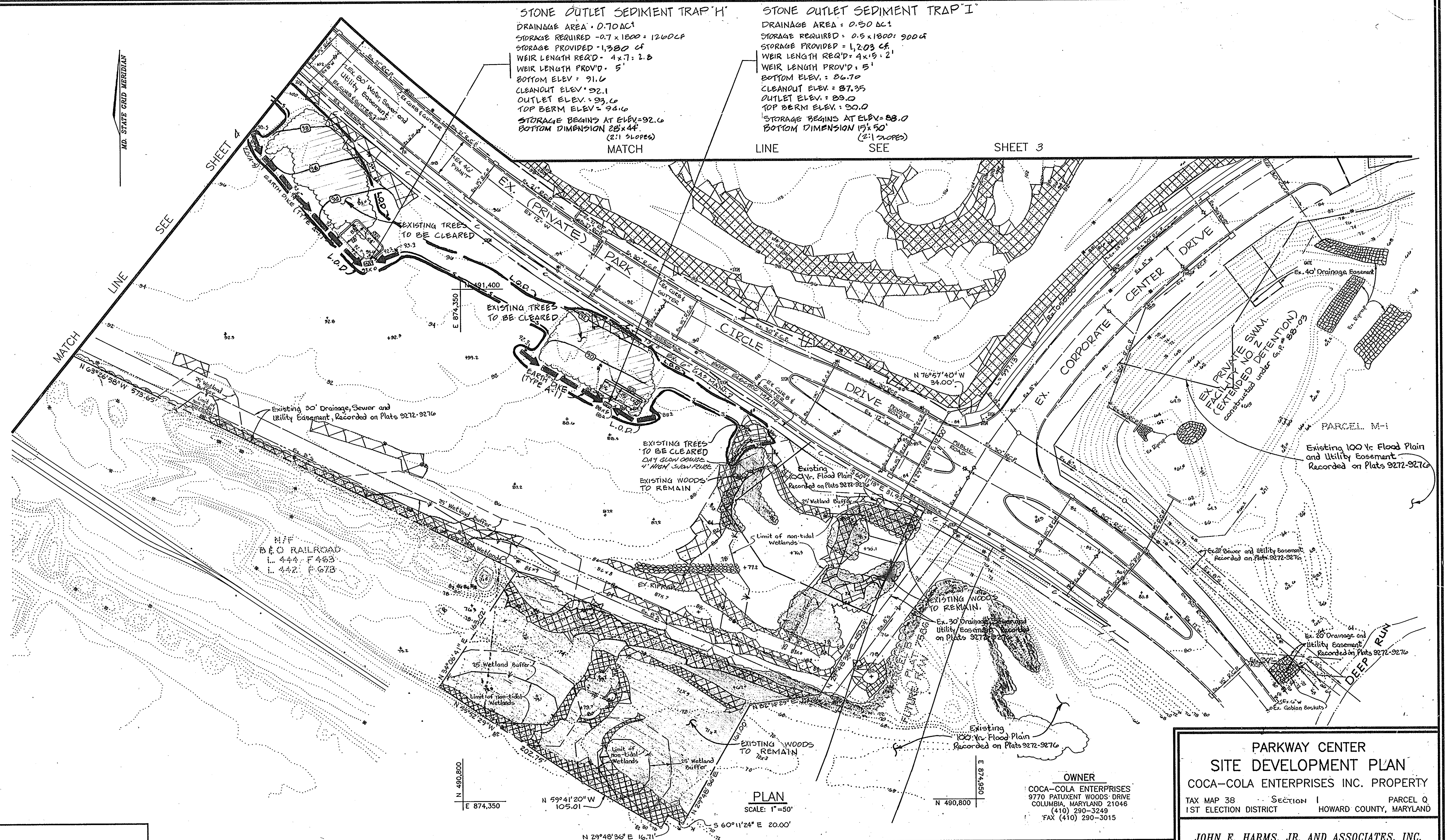
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
[Signature] DATE: 3-5-92
COUNTY HEALTH OFFICER
SUBMISSION NAME: PARKWAY CENTER SECTION/AREA: SECT 1 PARCEL NUMBER: Q
PLAT NO. 10544-10546 BLOCK NO. 19 ZONE M-2 TAX/ZONE TM 38 449 ELECT. DIST. 1ST CENSUS TR. 2150000 & 2150500
WATER CODE A-04 SEWER CODE



DESIGN BY: K.H.W.
DRAWN BY: D.G.H.
CHECKED BY: P.C.J.
DATE: 12/16/92
SCALE: AS SHOWN
W.O. NO.: SDP-92-005A
1 SHEET OF 12

STONE OUTLET SEDIMENT TRAP "H"
 DRAINAGE AREA = 0.70 AC
 STORAGE REQUIRED = 0.7 x 1800 = 1260 CF
 STORAGE PROVIDED = 1,380 CF
 WEIR LENGTH REQ'D = 4 x 1.5 = 2.8
 WEIR LENGTH PROV'D = 5'
 BOTTOM ELEV. = 91.6
 CLEANOUT ELEV. = 92.1
 OUTLET ELEV. = 93.6
 TOP BERM ELEV. = 94.6
 STORAGE BEGINS AT ELEV. = 92.6
 BOTTOM DIMENSION 28' x 44'
 (2:1 SLOPES)

STONE OUTLET SEDIMENT TRAP "I"
 DRAINAGE AREA = 0.50 AC
 STORAGE REQUIRED = 0.5 x 1800 = 900 CF
 STORAGE PROVIDED = 1,203 CF
 WEIR LENGTH REQ'D = 4 x 1.5 = 2'
 WEIR LENGTH PROV'D = 5'
 BOTTOM ELEV. = 86.70
 CLEANOUT ELEV. = 87.35
 OUTLET ELEV. = 89.0
 TOP BERM ELEV. = 90.0
 STORAGE BEGINS AT ELEV. = 88.0
 BOTTOM DIMENSION 15' x 50'
 (2:1 SLOPES)



MD. STATE GRID MERIDIAN

SHEET 2

SHEET 3

N/F B&O RAILROAD
 L. 444 F. 623
 L. 442 F. 678

N 490,800
 E 874,350

PLAN
 SCALE: 1"=50'

N 490,800
 E 874,350

OWNER
 COCA-COLA ENTERPRISES
 9770 PATUXENT WOODS DRIVE
 COLUMBIA, MARYLAND 21046
 (410) 290-3249
 FAX (410) 290-3015

PARKWAY CENTER
 SITE DEVELOPMENT PLAN
 COCA-COLA ENTERPRISES INC. PROPERTY
 TAX MAP 38 SECTION 1 PARCEL Q
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

JOHN E. HARMS, JR. AND ASSOCIATES, INC.
 CONSULTING ENGINEERS - PLANNERS - SURVEYORS
 80 GOVERNOR RITCHIE HIGHWAY
 PASADENA, MARYLAND 21122
 P.O. BOX 5
 (410) 647-6000

ENGINEERS CERTIFICATE
 "WE HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON OUR PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT"
 JOHN E. HARMS, JR. & ASSOCIATES
 SIGNATURE OF ENGINEER
 DATE 2/17/93

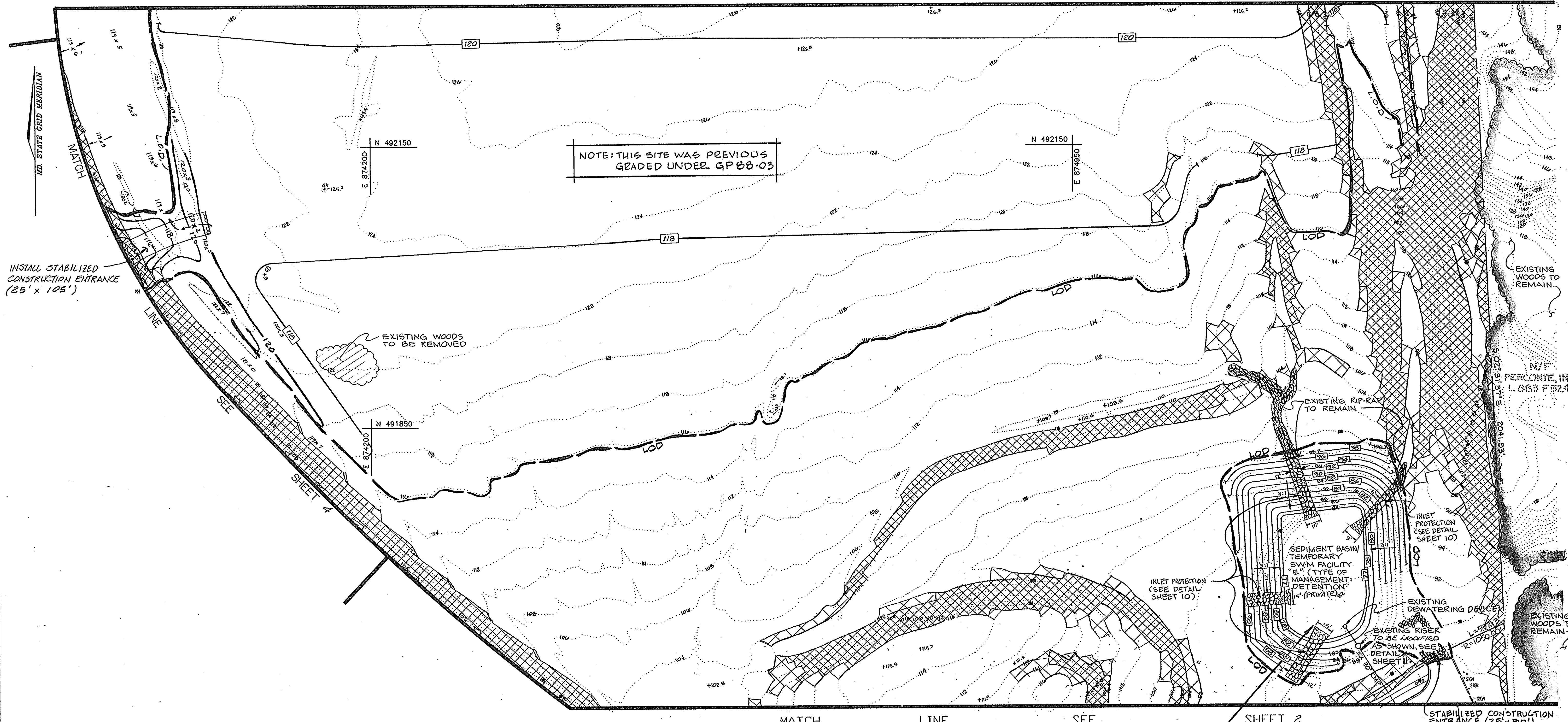
OWNERS CERTIFICATE
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM THE MARYLAND DEPARTMENT OF THE ENVIRONMENT'S APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY."
 COCA COLA ENTERPRISES
 SIGNATURE OF OWNER
 DATE 2/17/93

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 S. SOIL CONSERVATION SERVICE
 DATE 2/15/93
 THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 APPROVED: HOWARD SOIL CONSERVATION DISTRICT
 DATE 2/15/93

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 DIRECTOR
 DATE 3/1/93
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR
 DATE 2/22/93

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER
 DATE 3-5-93
 SUBMISSION NAME SECTION/AREA PARCEL NUMBER
 PARKWAY CENTER SECT-1 1981 Q
 PIAT NO. BLOCK NO. ZONE TAX/ZONE ELECT. DIST. CENSUS TR.
 10544 1981 M-2 TM 2844 1ST 60120
 WATER CODE A-04 SEWER CODE 2150500

DESIGN BY: K.H.W.
 DRAWN BY: D.G.H.
 CHECKED BY: P.C.J.
 DATE: 12/16/92
 SCALE: AS SHOWN
 W.O. NO.: 02-92-005A
 2 SHEET OF 12



INSTALL STABILIZED CONSTRUCTION ENTRANCE (25' x 105')

NOTE: THIS SITE WAS PREVIOUS GRADED UNDER GP 88-03

EXISTING WOODS TO BE REMOVED

EXISTING WOODS TO REMAIN

EXISTING RIP-RAP TO REMAIN

INLET PROTECTION (SEE DETAIL SHEET 10)

SEDIMENT BASIN TEMPORARY SWM FACILITY 5" (TYPE OF MANAGEMENT DETENTION (PRIVATE))

EXISTING DEWATERING DEVICE

EXISTING RISER TO BE MODIFIED AS SHOWN, SEE DETAIL SHEET 11

EXISTING WOODS TO REMAIN

STABILIZED CONSTRUCTION ENTRANCE (25' x 90')

PLAN SCALE: 1" = 50'

Sediment Basin 'E'
 Maximum Drainage Area 35.50 Ac
 Storage Required: 35.5 x 1800 = 63,900 c.f.
 Storage Provided: 67,520 c.f.
 Bottom Elevation: 77.0
 Outlet Elev. (Low Flow Orifice): 81.50
 Cleanout Elevation: 78.8
 Side Slopes: 3:1

OWNER
 COCA-COLA ENTERPRISES
 8770 PATUXENT WOODS DRIVE
 COLUMBIA, MARYLAND 21046
 (410) 290-3249
 FAX (410) 290-3015

PARKWAY CENTER
SITE DEVELOPMENT PLAN
 COCA-COLA ENTERPRISES INC. PROPERTY
 TAX MAP 38 PARCEL Q
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

JOHN E. HARMS, JR. AND ASSOCIATES, INC.
 CONSULTING ENGINEERS - PLANNERS - SURVEYORS

90 GOVERNOR RITCHIE HIGHWAY PASADENA, MARYLAND 21122 P.O. BOX 5 (410) 647-6000

ENGINEERS CERTIFICATE
 "WE HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON OUR PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT"
 JOHN E. HARMS, JR. & ASSOCIATES
 SIGNATURE OF ENGINEER: [Signature] DATE: 2/17/93

OWNERS CERTIFICATE
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM THE MARYLAND DEPARTMENT OF THE ENVIRONMENT'S APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY."
 COCA COLA ENTERPRISES
 SIGNATURE OF OWNER: [Signature] DATE: 2/17/93

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 [Signature] 2/25/93
 S. S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 [Signature] 2/25/93
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 [Signature] 3/10/93
 DIRECTOR DATE

[Signature] 3/5/93
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

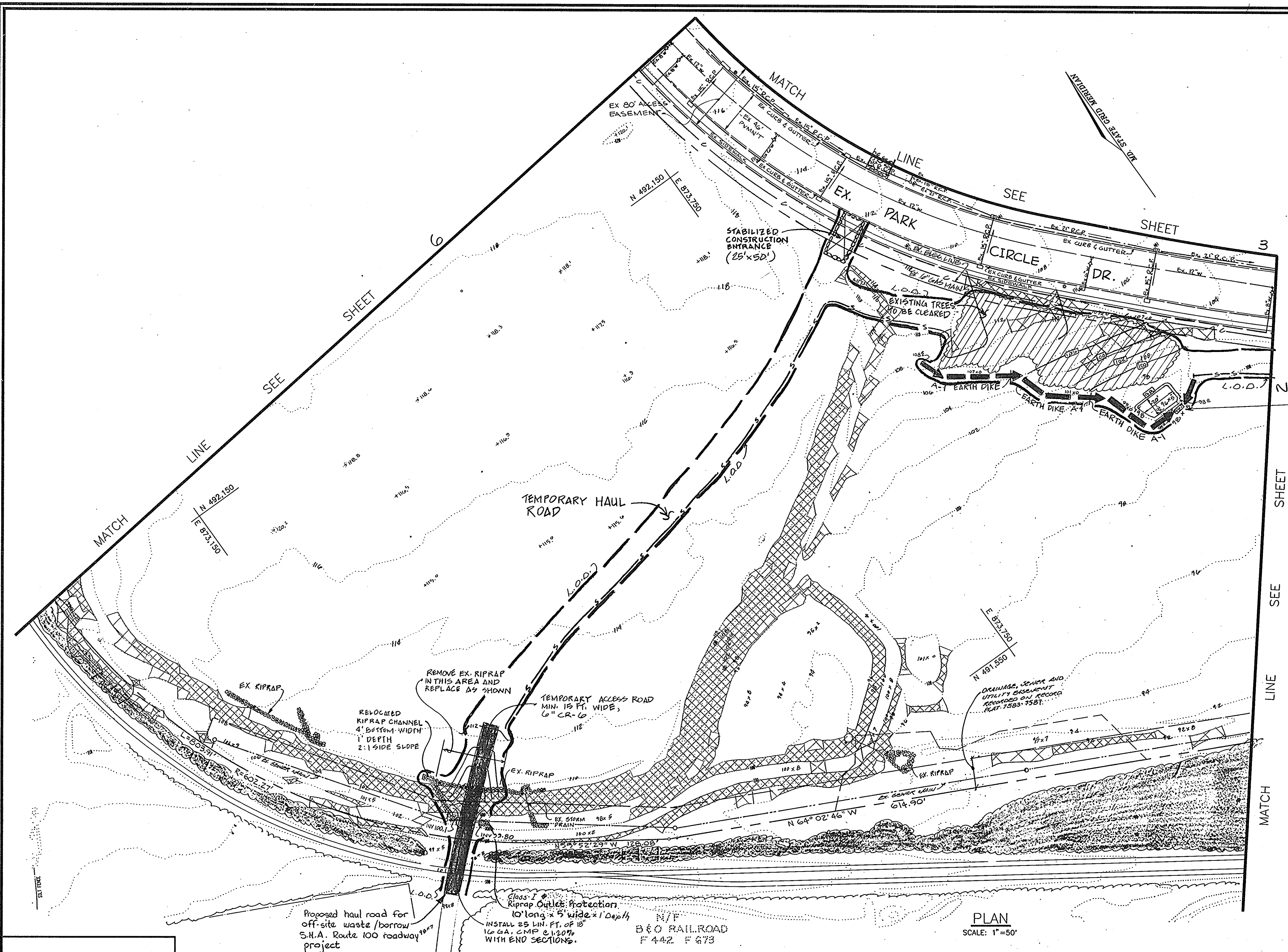
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 3-2-93
 DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 [Signature] 3-5-93
 COUNTY HEALTH OFFICER DATE

SUBDIVISION NAME PARKWAY CENTER	SECTION/AREA Sec. 1	PARCEL NUMBER "Q"
PLAT NO. 10544-10546	BLOCK NO. M-2	TAX/ZONE ELECT. DIST. 1ST
CENSUS TR.	WATER CODE	SEWER CODE

DESIGN BY: K.H.W.
 DRAWN BY: D.G.H.
 CHECKED BY: P.C.L.
 DATE: 12/18/92
 SCALE: AS SHOWN
 W.O. NO.: 06-92-005A

3 SHEET 12



STONE OUTLET SEDIMENT TRAP "G"
 DRAINAGE AREA = 0.50 AC
 STORAGE REQUIRED = 0.5 x 1800 = 900 cf
 STORAGE PROVIDED = 1300 cf
 LENGTH WEIR REQ'D. = 4 x .5 = 2'
 LENGTH WEIR PROV'D. = 5'
 BOTTOM ELEV. = 96.5
 CLEANOUT ELEV. = 97.25
 OUTLET ELEV. = 99.0
 TOP BERM = 100.0
 STORAGE BEGINS AT ELEV. = 98.0
 BOTTOM DIMENSION 20' x 35'
 (2:1 SLOPES)

OWNER
 COCA-COLA ENTERPRISES
 9770 PATUXENT WOODS DRIVE
 COLUMBIA, MARYLAND 21046
 (410) 290-3249
 FAX (410) 290-3015

PARKWAY CENTER
 SITE DEVELOPMENT PLAN
 COCA-COLA ENTERPRISES INC. PROPERTY
 TAX MAP 38 PARCEL Q
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

JOHN E. HARMS, JR. AND ASSOCIATES, INC.
 CONSULTING ENGINEERS - PLANNERS - SURVEYORS
 90 GOVERNOR RITCHIE HIGHWAY PASADENA, MARYLAND 21122 P.O. BOX 5 (410) 647-8000

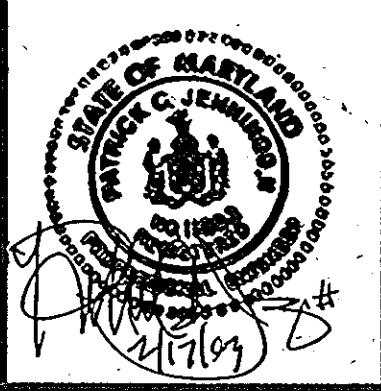
ENGINEERS CERTIFICATE
 "WE HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON OUR PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT"
 JOHN E. HARMS, JR. & ASSOCIATES
 [Signature] # 21/1/93
 SIGNATURE OF ENGINEER DATE

OWNERS CERTIFICATE
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM THE MARYLAND DEPARTMENT OF THE ENVIRONMENT'S APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY."
 COCA COLA ENTERPRISES
 [Signature] # 21/17/93
 SIGNATURE OF OWNER DATE

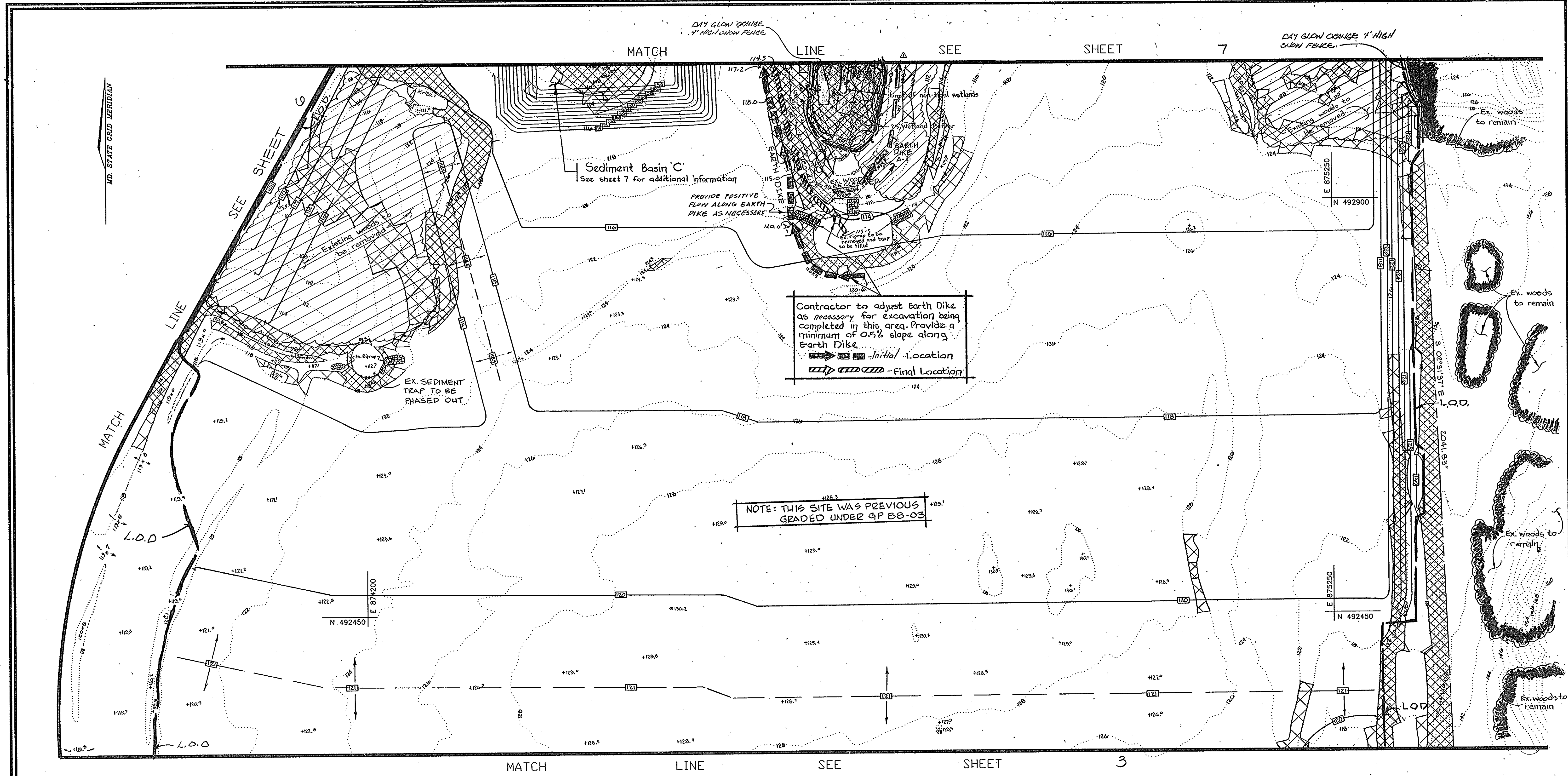
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 [Signature] # 2/25/93
 S. SOIL CONSERVATION SERVICE DATE
 THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 [Signature] # 2/25/93
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 [Signature] # 3/1/93
 DIRECTOR DATE
 [Signature] # 3/5/93
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] # 3/2/93
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 [Signature] # 3-5-93
 COUNTY HEALTH OFFICER DATE
 SUBDIVISION NAME: PARKWAY CENTER SECTION/AREA: Parcel Q PARCEL NUMBER: Q
 PLAT NO. 10544-10546 BLOCK NO. M-2 ZONE TAX/ZONE ELECT. DIST. 1ST CENSUS TR.
 WATER CODE: SEWER CODE:



DESIGN BY: K.H.W.
 DRAWN BY: D.G.H.
 CHECKED BY: P.C.J.
 DATE: 12/16/92
 SCALE: AS SHOWN
 W.O. NO.: 66-92-025A
 4 SHEET OF 12



NOTE: THIS SITE WAS PREVIOUS GRADED UNDER 9P 88-03

Contractor to adjust Earth Dike as necessary for excavation being completed in this area. Provide a minimum of 0.5% slope along Earth Dike.

--- Initial Location
 --- Final Location

PLAN
SCALE: 1" = 50'

OWNER
 COCA-COLA ENTERPRISES
 9770 PATUXENT WOODS DRIVE
 COLUMBIA, MARYLAND 21046
 (410) 290-3249
 FAX (410) 290-3015

PARKWAY CENTER
 SITE DEVELOPMENT PLAN
 COCA-COLA ENTERPRISES INC. PROPERTY
 TAX MAP 38 PARCEL Q
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

JOHN E. HARMS, JR. AND ASSOCIATES, INC.
 CONSULTING ENGINEERS - PLANNERS - SURVEYORS

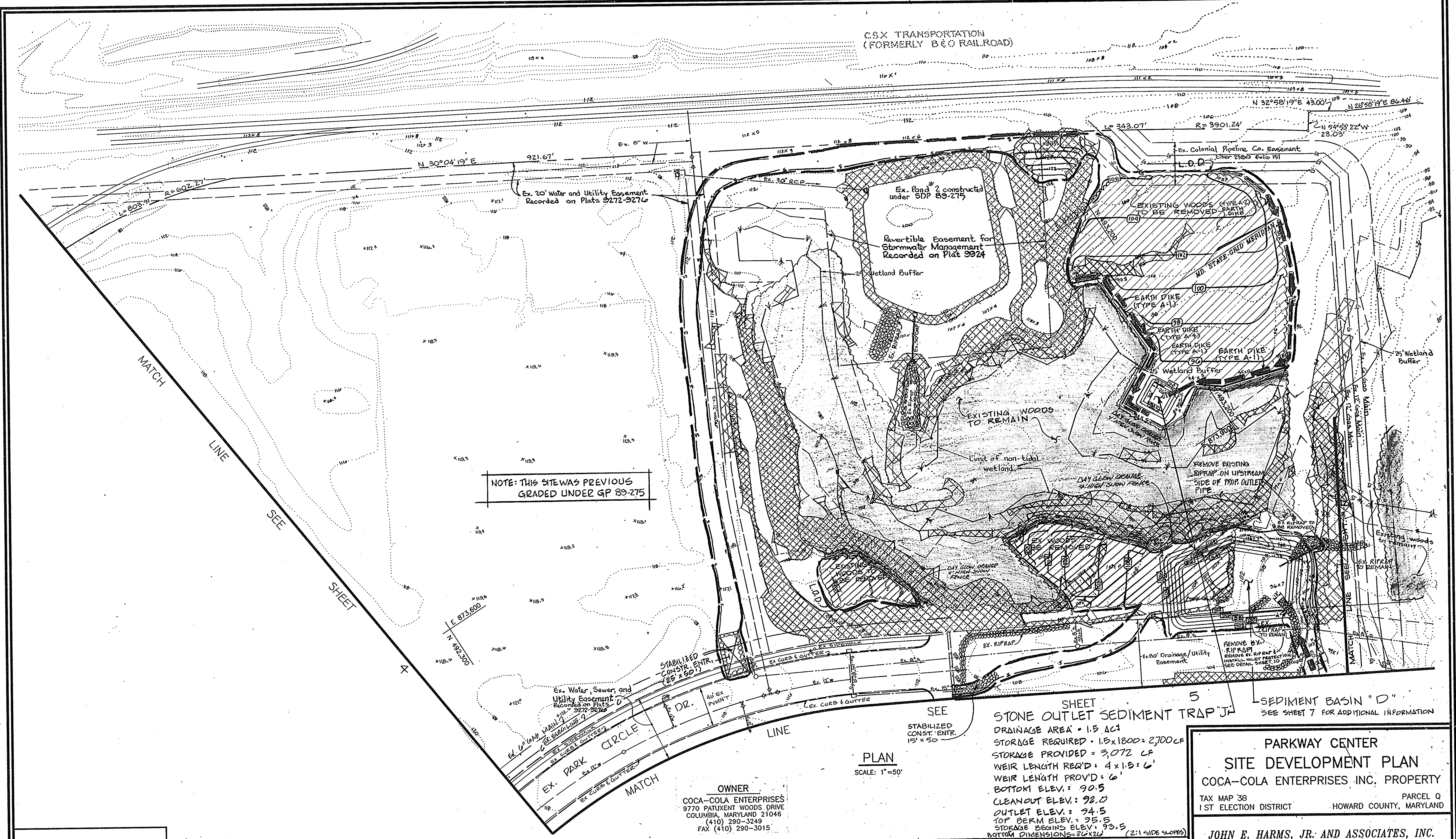
90 GOVERNOR RITCHIE HIGHWAY PASADENA, MARYLAND 21122 P.O. BOX 6 (410) 647-6000

DESIGN BY: K.H.W.	
DRAWN BY: D.G.H.	
CHECKED BY: P.C.J.	
DATE: 12/16/92	
SCALE: AS SHOWN	
W.O. NO.: 92-025A	5 SHEET OF 12

ENGINEERS CERTIFICATE WE HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON OUR PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT JOHN E. HARMS, JR. & ASSOCIATES [Signature] DATE 2/17/93	OWNERS CERTIFICATE I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM THE MARYLAND DEPARTMENT OF THE ENVIRONMENT'S APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY. COCA COLA ENTERPRISES [Signature] DATE 2/17/93
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REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS. [Signature] DATE 2/25/93 S. SOIL CONSERVATION SERVICE	APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING [Signature] DATE 3/10/93 DIRECTOR [Signature] DATE 3/9/93 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT APPROVED: [Signature] DATE 2/25/93 HOWARD SOIL CONSERVATION DISTRICT	APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS APPROVED: [Signature] DATE 3/10/93 CHIEF, BUREAU OF ENGINEERING

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT [Signature] DATE 3-5-93 COUNTY HEALTH OFFICER					
SUBDIVISION NAME	SECTION/AREA	PARCEL NUMBER			
PARKWAY CENTER	SECT. 1	Q			
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELECT. DIST.	CENSUS TR.
10544-10546		M-2		1 ST	
WATER CODE			SEWER CODE		



NOTE: THIS SITE WAS PREVIOUSLY GRADED UNDER GP 89-275

SHEET 5
SEDIMENT BASIN "D"
 SEE SHEET 7 FOR ADDITIONAL INFORMATION

STONE OUTLET SEDIMENT TRAP "J"
 DRAINAGE AREA = 1.5 AC
 STORAGE REQUIRED = 1.5 x 1800 = 2700 CF
 STORAGE PROVIDED = 3072 CF
 WEIR LENGTH REQ'D = 4 x 1.5 = 6'
 WEIR LENGTH PROVIDED = 6'
 BOTTOM ELEV. = 90.5
 CLEANOUT ELEV. = 92.0
 OUTLET ELEV. = 94.5
 TOP BERM ELEV. = 95.5
 STORAGE BEGINS ELEV. = 93.5
 BOTTOM DIMENSIONS = 20' x 20' (2:1 SIDE SLOPES)

PARKWAY CENTER
SITE DEVELOPMENT PLAN
 COCA-COLA ENTERPRISES INC. PROPERTY

TAX MAP 38 PARCEL Q
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

JOHN E. HARMS, JR. AND ASSOCIATES, INC.
 CONSULTING ENGINEERS - PLANNERS - SURVEYORS

90 GOVERNOR RITCHIE HIGHWAY PASADENA, MARYLAND 21122 P.O. BOX 5 (410) 647-8000

OWNER
 COCA-COLA ENTERPRISES
 9770 PATUXENT WOODS DRIVE
 COLUMBIA, MARYLAND 21046
 (410) 290-3249
 FAX (410) 290-3015

PLAN
 SCALE: 1" = 50'

ENGINEERS CERTIFICATE

"WE HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON OUR PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT"

JOHN E. HARMS, JR. & ASSOCIATES
 [Signature]
 SIGNATURE OF ENGINEER DATE

OWNERS CERTIFICATE

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

COCA COLA ENTERPRISES
 [Signature]
 SIGNATURE OF OWNER DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

[Signature] 2/15/93 DATE
 HOWARD SOIL CONSERVATION SERVICE

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

[Signature] 2/17/93 DATE
 HOWARD SOIL CONSERVATION DISTRICT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 3/10/93 DATE
 DIRECTOR

[Signature] 3/19/93 DATE
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 3/15/93 DATE
 DIRECTOR

[Signature] 3/22/93 DATE
 CHIEF, BUREAU OF ENGINEERING

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS

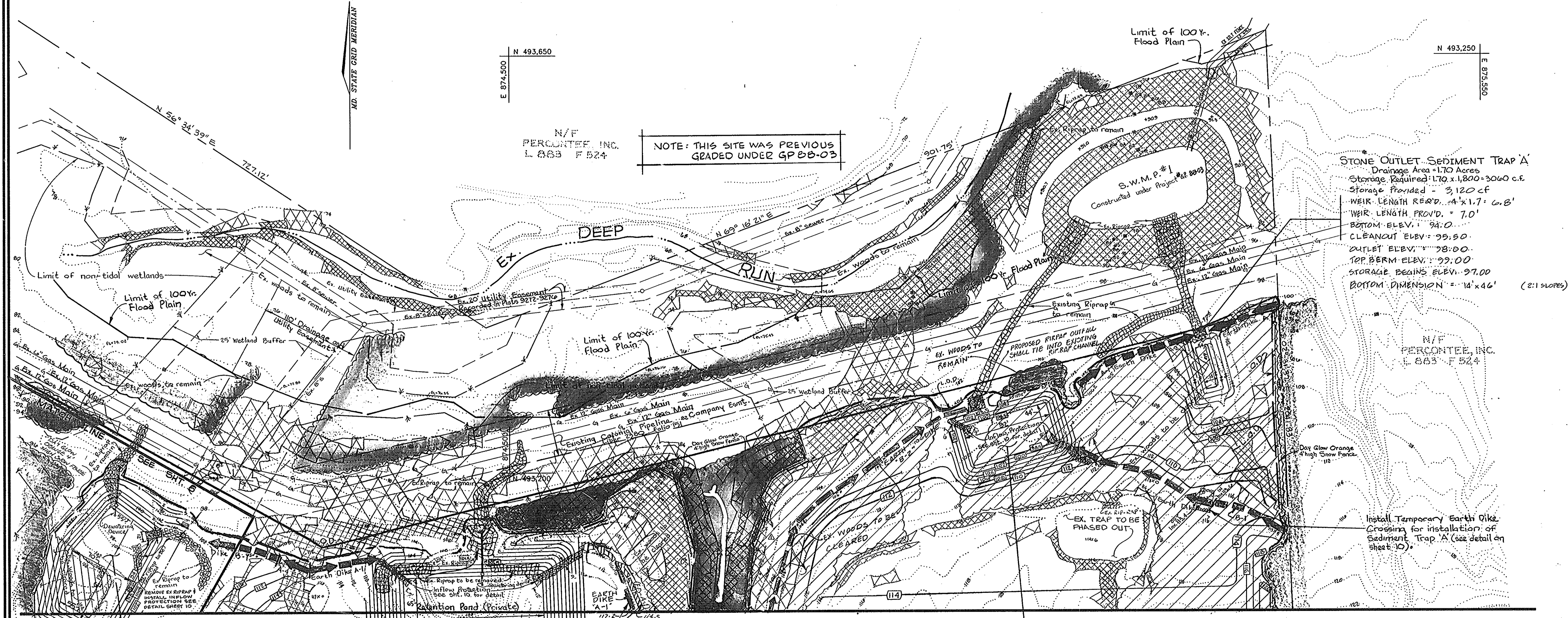
HOWARD COUNTY HEALTH DEPARTMENT

[Signature] 3-5-93 DATE
 COUNTY HEALTH OFFICER

SUBDIVISION NAME		SECTION/AREA	PARCEL NUMBER
PARKWAY CENTER		SECT 1	Q
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE
10544-10546	19 & 1	M-2	TH 38 & 44
ELECT. DIST.		CENSUS TR.	
1ST		601200	
WATER CODE		SEWER CODE	
A-04		2150500 & 2150500	

DESIGN BY: K.H.W.
 DRAWN BY: D.G.H.
 CHECKED BY: P.C.J.
 DATE: 12/16/92
 SCALE: AS SHOWN
 W.O. NO.: 02-92-005A

6 SHEET OF 12



N/F PERCUTEE, INC. L. 883 F 524

NOTE: THIS SITE WAS PREVIOUS GRADED UNDER GP 88-03

STONE OUTLET SEDIMENT TRAP 'A'
 Drainage Area: 1.70 Acres
 Storage Required: 1.70 x 1,800 = 3,060 c.f.
 Storage Provided: 3,120 c.f.
 WEIR LENGTH REQ'D: 4' x 1.7' = 6.8'
 WEIR LENGTH PROVIDED: 7.0'
 BOTTOM ELEV.: 94.0
 CLEANOUT ELEV.: 95.50
 OUTLET ELEV.: 98.00
 TOP BERM ELEV.: 99.00
 STORAGE BEGINS ELEV.: 97.00
 BOTTOM DIMENSION: 14' x 46' (2:1 SLOPES)

N/F PERCUTEE, INC. L. 883 F 524

Install Temporary Earth Dike Crossing for installation of Sediment Trap 'A' (see detail on sheet 10)

Sediment Basin D
 Maximum Drainage Area: 10.6 Ac.
 Storage Required: 10.6 x 1800 = 19,080 c.f.
 Storage Provided: 20,190 c.f.
 Bottom Elevation: 94.0
 Outlet Elev. (Low Flow Orifice): 96.5
 Cleanout Elevation: 95.1
 Side Slopes: 2:1

Sediment Basin C
 Maximum Drainage Area: 5.5 Ac.
 Storage Required: 5.5 x 1800 = 9,900 c.f.
 Storage Provided: 15,606 c.f.
 Bottom Elevation: 94.0
 Outlet Elev. (Low Flow Orifice): 95.5
 Cleanout Elevation: 94.4
 Side Slopes: 2:1

LINE SEE SHEET 5
 Contractor to adjust Earth Dike as necessary for excavation being completed in this area. Provide a minimum of 0.5% slope along Earth Dike.
 - - - - - Initial Location
 - - - - - Final Location

SEE INSERT 'A' - SHEET 12.

OWNER
 COCA-COLA ENTERPRISES
 9770 PATUXENT WOODS DRIVE
 COLUMBIA, MARYLAND 21046
 (410) 290-3249
 FAX (410) 290-3015

Riprap Outlet Sediment Trap B
 Drainage Area: 11.30 Acres
 Storage Required: 11.3 x 1800 = 20,340 c.f.
 Storage Provided: 20,820 c.f.
 Weir Length Required: 14'
 Weir Length Provided: 14'
 Channel Depth: 2'
 Top Embankment Elev: 104.5
 Outlet Elevation: 103.5
 Cleanout Elevation: 100.5
 Bottom Elevation: 98.5
 Bottom Dimension: 32' x 44'
 Interior Side Slopes 2:1

PARKWAY CENTER
SITE DEVELOPMENT PLAN
 COCA-COLA ENTERPRISES INC. PROPERTY
 TAX MAP 38 PARCEL Q
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

JOHN E. HARMS, JR. AND ASSOCIATES, INC.
 CONSULTING ENGINEERS - PLANNERS - SURVEYORS
 90 GOVERNOR RITCHIE HIGHWAY PASADENA, MARYLAND 21122 P.O. BOX 5 (410) 647-6000

NO.	REVISION	DATE
1	PERMIVE L.O.D.	1-20-93

ENGINEERS CERTIFICATE
 "WE HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON OUR PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT"

JOHN E. HARMS, JR. & ASSOCIATES
 SIGNATURE OF ENGINEER
 DATE 1/17/93

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

COCA COLA ENTERPRISES
 SIGNATURE OF OWNER
 DATE 2/17/93

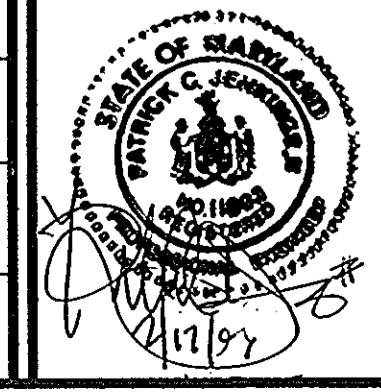
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 S. SOIL CONSERVATION SERVICE DATE 2/25/93
 THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 HOWARD SOIL CONSERVATION DISTRICT DATE 2/25/93

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 DIRECTOR DATE 3/10/93
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE 3/15/93

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR DATE 3/25/93
 CHIEF, BUREAU OF ENGINEERING M.K. DATE 3/25/93

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER DATE 3-5-93

SUBMISSION NAME	SECTION/AREA	PARCEL NUMBER
PARKWAY CENTER	SECT 1	Q
PLAT NO.	BLOCK NO.	ZONE
10544-10546	19 & 1	M-2
TAX/ZONE	ELECT. DIST.	CENSUS TR.
TM 58 & 44	1ST	601200
WATER CODE	SEWER CODE	
A-04	2150500	2150500



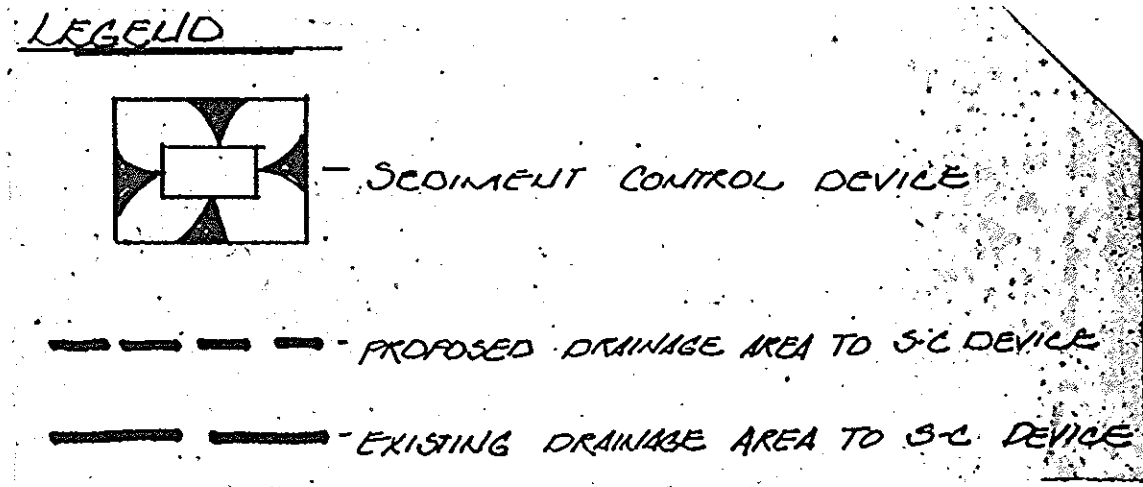
DESIGN BY: K.H.W.
 DRAWN BY: D.G.H.
 CHECKED BY: P.C.J.
 DATE: 12/18/92
 SCALE: 1"=50'
 W.O. NO.: 06-92-005A

25' NON-TIDAL WETLANDS BUFFER

COURSE	BEARING	DISTANCE
1	N 47°51'43"E	37.20'
2	N 80°39'53"E	17.90'
3	N 37°12'10"E	29.24'
4	S 67°33'59"E	77.81'
5	S 07°58'41"W	19.87'
6	S 50°39'36"E	18.37'
7	S 77°31'54"E	47.36'
8	S 63°25'19"E	107.22'
9	S 09°27'02"E	65.34'
10	N 64°22'47"E	68.51'
11	S 39°36'55"E	35.89'
12	S 30°17'18"E	38.04'
13	S 07°40'52"E	47.77'
14	N 84°33'12"E	85.90'
15	S 72°28'18"E	42.08'
16	S 58°51'08"E	41.65'
17	S 63°24'10"E	49.68'
18	S 74°18'44"E	43.84'
19	S 49°23'09"E	37.65'
20	S 59°46'56"E	34.84'
21	S 10°52'51"W	68.88'
22	N 74°33'24"W	82.17'
23	N 74°01'10"E	10.82'
24	S 86°28'16"E	44.93'
25	S 88°49'51"E	49.88'
26	S 44°44'17"E	34.11'
27	S 14°16'38"E	37.39'
28	S 34°28'54"W	45.42'
29	N 87°30'00"W	38.38'
30	N 33°05'05"W	10.70'
31	N 09°25'40"W	37.87'
32	N 50°28'03"E	46.85'
33	S 89°10'09"E	37.25'
34	S 64°51'37"E	43.39'
35	S 08°16'49"E	33.13'
36	S 03°27'18"W	22.27'
37	S 37°17'48"W	32.79'
38	S 72°28'29"W	19.17'
39	N 02°58'33"W	9.55'
40	N 37°57'53"E	34.82'
41	S 76°34'11"E	13.76'
42	N 79°34'46"W	27.67'
43	S 13°35'14"E	9.50'
44	S 83°44'38"W	31.24'
45	S 40°23'27"W	34.17'
46	S 58°35'30"W	12.00'
47	S 14°41'42"W	14.35'
48	S 26°32'37"W	63.81'
49	N 60°01'17"W	89.20'
50	N 10°12'28"E	41.02'
51	N 34°32'16"W	21.50'
52	N 14°52'35"W	45.00'
53	N 31°07'48"E	12.63'
54	N 38°49'14"W	24.79'
55	N 31°39'57"E	40.98'
56	N 29°25'44"E	37.31'
57	N 63°05'49"E	23.55'
58	N 77°20'02"E	47.12'
59	S 20°29'05"E	57.52'
60	S 61°07'59"E	9.03'
61	S 83°43'53"E	9.74'
62	S 86°52'28"E	71.68'
63	S 12°18'52"E	28.28'
64	S 74°41'34"E	34.52'

TOTAL DRAINAGE AREA TO SILENT FENCE 11.0 AC. PER 0.30' OF SILENT FENCE. 0.10 AC. PER 100' OF SILENT FENCE. MAX. FENCE LENGTH TO 150'

SYMBOL	CLASSIFICATION	GROUP
Gp	GRAVEL PITS AND QUARRIES	C
ScD	SANDY AND CLAYEY LAND	C
Ha	HATBORO SILT LOAM	D
Cs	COMUS SILT LOAM	B
Li	LEONARDTOWN SILT LOAM	D
IuB	IUKA LOAM	C
SD2	SASSAFRAS GRAVELLEY SANDY LOAM.	B
WoB2	WOODSTOWN SANDY LOAM	C
Co	CODORUS SILT LOAM	C
SsE	SASSAFRAS SOILS	C
SfC2	SASSAFRAS GRAVELLEY SANDY LOAM	B
CnD3	CHILLUM FAIRFAX LOAMS	B
ScE	SANDY AND CLAYEY LAND	B
BeC2	BRANDYWINE LOAM	C
LoD	LOAMY AND CLAYEY LAND	C



PLAN SCALE: 1"=100'

OWNER
COCA-COLA ENTERPRISES
9770 PATUXENT WOODS DRIVE
COLUMBIA, MARYLAND 21046
(410) 290-3249
FAX (410) 290-3015

**PARKWAY CENTER
DRAINAGE AREA MAP**
COCA-COLA ENTERPRISES INC. PROPERTY
TAX MAP 38 PARCEL Q
1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

JOHN E. HARMS, JR. AND ASSOCIATES, INC.
CONSULTING ENGINEERS - PLANNERS - SURVEYORS

80 GOVERNOR RITCHIE HIGHWAY PASADENA, MARYLAND 21122 P.O. BOX 5 (410) 647-8000

ENGINEERS CERTIFICATE
"WE HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON OUR PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT"

JOHN E. HARMS, JR. & ASSOCIATES
SIGNATURE OF ENGINEER DATE

OWNERS CERTIFICATE
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COCA COLA ENTERPRISES
SIGNATURE OF OWNER DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
U. S. SOIL CONSERVATION SERVICE DATE 2/25/93

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
APPROVED: SIGNATURE OF DISTRICT CHIEF, BUREAU OF ENGINEERING DATE 2/25/93

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DIRECTOR DATE 3/19/93

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR DATE 3/22/93

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER DATE 3-5-93

SUBDIVISION NAME	SECTION/AREA	PARCEL NUMBER
PARKWAY CENTER	SECT 1	Q
PLAT NO.	BLOCK NO.	ZONE
10544-10546	19 & 1	M-2
TAX/ZONE	ELECT. DIST.	CENSUS TR.
TM 38444	1ST	601200
WATER CODE	SEWER CODE	
A-24	2150500	2150500

DESIGN BY: K.H.W.
DRAWN BY: D.C.H.
CHECKED BY: P.C.J.
DATE: 12/16/92
SCALE: AS SHOWN
W.O. NO.: 06-92-005A

8 SHEET OF 12

SOIL TYPES

SYMBOL	CLASSIFICATION	GROUP
Gp	GRAVEL PITS AND QUARRIES	C
ScD	SANDY AND CLAYEY LAND	C
Hg	HATBORO SILT LOAM	D
Cs	COMUS SILT LOAM	B
Li	LEONARDTOWN SILT LOAM	D
IuB	IUKA LOAM	C
SfD2	SASSAFRAS GRAVELLEY SANDY LOAM	B
WoB2	WOODSTOWN SANDY LOAM	C
Co	CODORUS SILT LOAM	C
SsE	SASSAFRAS SOILS	C
SfC2	SASSAFRAS GARVELLEY SANDY LOAM	B
CnD3	CHILLUM FAIRFAX LOAMS	B
ScE	SANDY AND CLAYEY LAND	B
BeC2	BRANDYWINE LOAM	C
LoD	LOAMY AND CLAYEY LAND	C

25' NON-TIDAL WETLANDS BUFFER

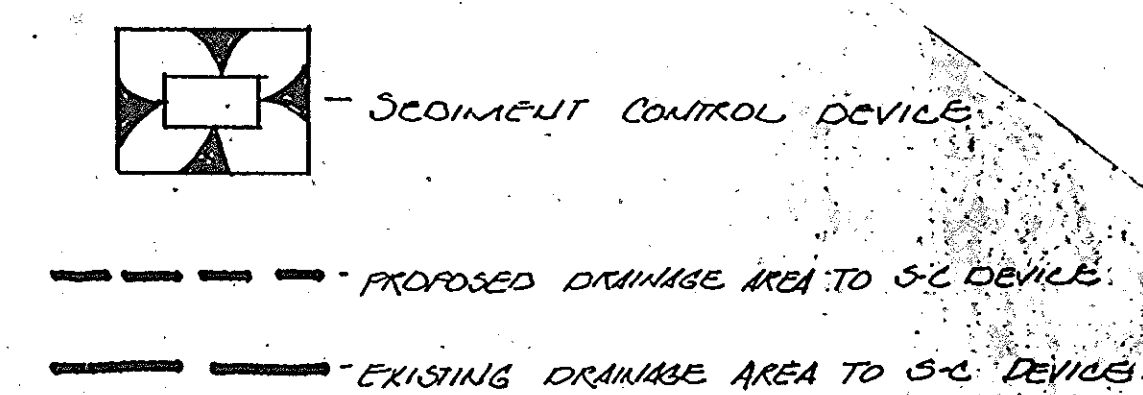
COURSE	BEARING	DISTANCE	COURSE	BEARING	DISTANCE
1	N 73° 40' 55" E	38.88'	114	N 76° 43' 17" E	71.43'
2	S 81° 24' 15" W	19.41'	115	S 81° 10' 10" W	87.48'
3	S 70° 52' 35" W	37.70'	116	S 85° 55' 49" E	37.81'
4	S 82° 22' 39" W	37.45'	117	S 85° 55' 49" E	37.81'
5	S 82° 22' 39" W	37.45'	118	S 85° 55' 49" E	37.81'
6	S 82° 22' 39" W	37.45'	119	S 85° 55' 49" E	37.81'
7	S 82° 22' 39" W	37.45'	120	S 85° 55' 49" E	37.81'
8	S 82° 22' 39" W	37.45'	121	S 85° 55' 49" E	37.81'
9	S 82° 22' 39" W	37.45'	122	S 85° 55' 49" E	37.81'
10	S 82° 22' 39" W	37.45'	123	S 85° 55' 49" E	37.81'
11	S 82° 22' 39" W	37.45'	124	S 85° 55' 49" E	37.81'
12	S 82° 22' 39" W	37.45'	125	S 85° 55' 49" E	37.81'
13	S 82° 22' 39" W	37.45'	126	S 85° 55' 49" E	37.81'
14	S 82° 22' 39" W	37.45'	127	S 85° 55' 49" E	37.81'
15	S 82° 22' 39" W	37.45'	128	S 85° 55' 49" E	37.81'
16	S 82° 22' 39" W	37.45'	129	S 85° 55' 49" E	37.81'
17	S 82° 22' 39" W	37.45'	130	S 85° 55' 49" E	37.81'
18	S 82° 22' 39" W	37.45'	131	S 85° 55' 49" E	37.81'
19	S 82° 22' 39" W	37.45'	132	S 85° 55' 49" E	37.81'
20	S 82° 22' 39" W	37.45'	133	S 85° 55' 49" E	37.81'
21	S 82° 22' 39" W	37.45'	134	S 85° 55' 49" E	37.81'
22	S 82° 22' 39" W	37.45'	135	S 85° 55' 49" E	37.81'
23	S 82° 22' 39" W	37.45'	136	S 85° 55' 49" E	37.81'
24	S 82° 22' 39" W	37.45'	137	S 85° 55' 49" E	37.81'
25	S 82° 22' 39" W	37.45'	138	S 85° 55' 49" E	37.81'
26	S 82° 22' 39" W	37.45'	139	S 85° 55' 49" E	37.81'
27	S 82° 22' 39" W	37.45'	140	S 85° 55' 49" E	37.81'
28	S 82° 22' 39" W	37.45'	141	S 85° 55' 49" E	37.81'
29	S 82° 22' 39" W	37.45'	142	S 85° 55' 49" E	37.81'
30	S 82° 22' 39" W	37.45'	143	S 85° 55' 49" E	37.81'
31	S 82° 22' 39" W	37.45'	144	S 85° 55' 49" E	37.81'
32	S 82° 22' 39" W	37.45'	145	S 85° 55' 49" E	37.81'
33	S 82° 22' 39" W	37.45'	146	S 85° 55' 49" E	37.81'
34	S 82° 22' 39" W	37.45'			
35	S 82° 22' 39" W	37.45'			
36	S 82° 22' 39" W	37.45'			
37	S 82° 22' 39" W	37.45'			
38	S 82° 22' 39" W	37.45'			
39	S 82° 22' 39" W	37.45'			
40	S 82° 22' 39" W	37.45'			
41	S 82° 22' 39" W	37.45'			
42	S 82° 22' 39" W	37.45'			
43	S 82° 22' 39" W	37.45'			
44	S 82° 22' 39" W	37.45'			
45	S 82° 22' 39" W	37.45'			
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113	S 82° 22' 39" W	37.45'			

TOTAL DRAINAGE AREA TO SILT FENCE 0.10 AC. PER 130' OF SILT FENCE. 0.08 AC. PER 100' OF S.F. MAX. FLOW LENGTH TO S.F. = 60'

TOTAL DRAINAGE AREA TO SILT FENCE 0.24 AC. PER 330' OF SILT FENCE. 0.06 AC. PER 100' OF S.F. MAX. FLOW LENGTH TO S.F. = 40'

TOTAL DRAINAGE AREA TO SILT FENCE 0.91 AC. PER 350' OF SILT FENCE. 0.07 AC. PER 100' OF S.F. MAX. FLOW LENGTH TO S.F. = 70'

LEGEND



ENGINEERS CERTIFICATE
 "WE HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON OUR PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT"
 JOHN E. HARMS, JR. & ASSOCIATES
 SIGNATURE OF ENGINEER: [Signature] DATE: 2/17/93

OWNERS CERTIFICATE
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM THE MARYLAND DEPARTMENT OF THE ENVIRONMENT'S APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY."
 COCA COLA/ENTERPRISES
 SIGNATURE OF OWNER: [Signature] DATE: 2/17/93

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 [Signature] DATE: 2/15/93
 S. SOIL CONSERVATION SERVICE
 THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 [Signature] DATE: 2/15/93
 HOWARD SOIL CONSERVATION DISTRICT

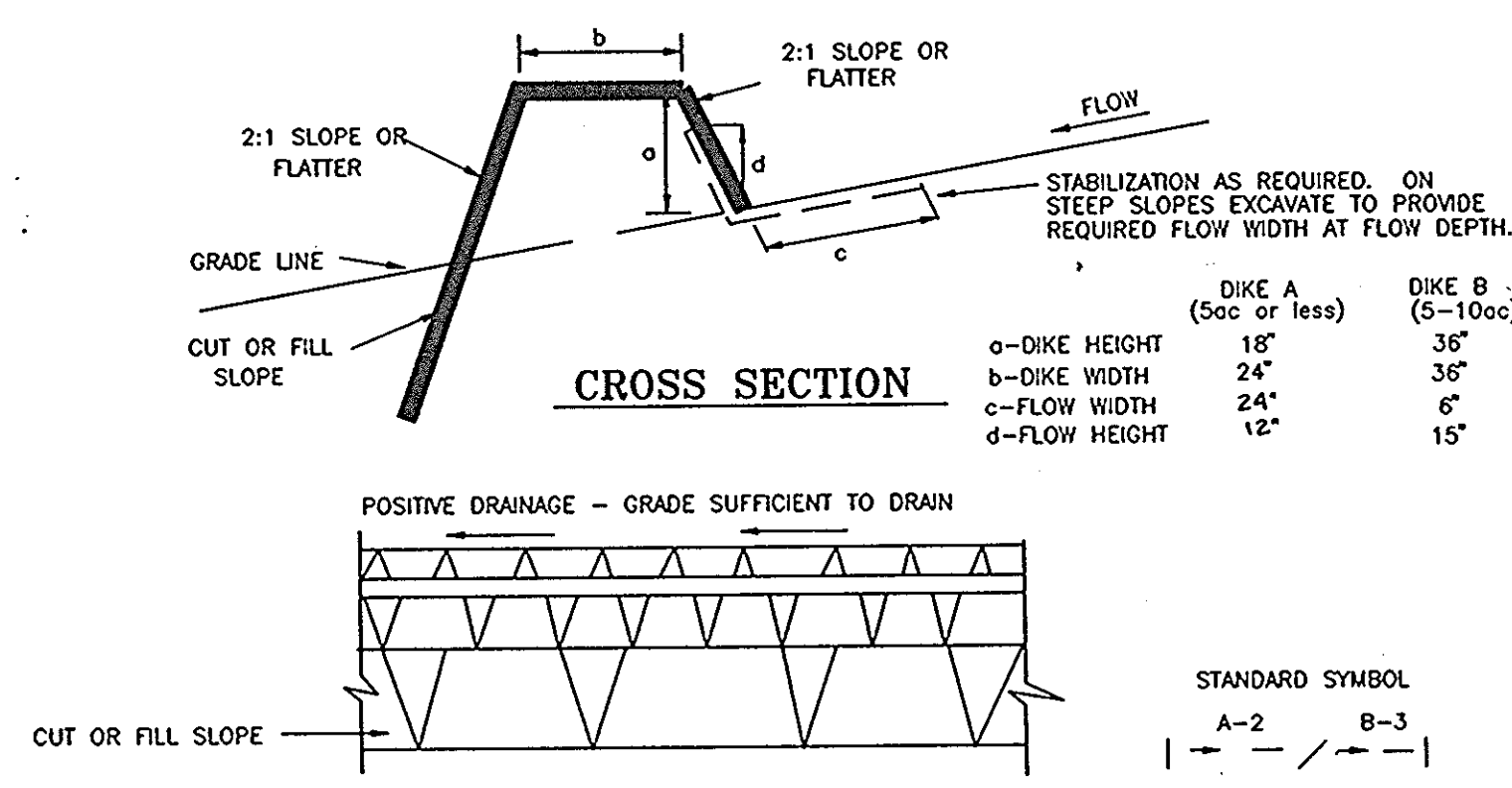
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 [Signature] DATE: 3/10/93
 DIRECTOR
 [Signature] DATE: 3/19/93
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] DATE: 3/2/93
 DIRECTOR
 [Signature] DATE: 3/2/93
 CHIEF, BUREAU OF ENGINEERING

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 [Signature] DATE: 3-5-93
 COUNTY HEALTH OFFICER
 SUBDIVISION NAME: PARKWAY CENTER SECTION/AREA: SECT. 1 PARCEL NUMBER: 'Q'
 PLAN NO. 10544-10546 BLOCK NO. 19 & 1 ZONE M-2 TAX/ZONE TM 38 & 44 ELECT. DIST. 1ST CENSUS-TR. 2150000 & 2150500
 WATER CODE A-04 SEWER CODE 2150500

PARKWAY CENTER SITE DEVELOPMENT PLAN
 COCA-COLA ENTERPRISES INC. PROPERTY
 TAX MAP 38 PARCEL Q
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

JOHN E. HARMS, JR. AND ASSOCIATES, INC.
 CONSULTING ENGINEERS - PLANNERS - SURVEYORS
 90 GOVERNOR RITCHIE HIGHWAY PASADENA, MARYLAND 21122 P.O. BOX 5 (410) 647-8000

DESIGN BY: K.H.W.
 DRAWN BY: D.G.M.
 CHECKED BY: P.C.J.
 DATE: 12/16/92
 SCALE: AS SHOWN
 W.O. NO.: 02-92-005A
 9 SHEET OF 12



DIKE A (50c or less)	DIKE B (5-100c)
a-DIKE HEIGHT 18"	36"
b-DIKE WIDTH 24"	36"
c-FLOW WIDTH 24"	6"
d-FLOW HEIGHT 12"	15"

CONSTRUCTION SPECIFICATIONS

- ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
- ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
- 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 ADEQUATELY STABILIZED.
- DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.

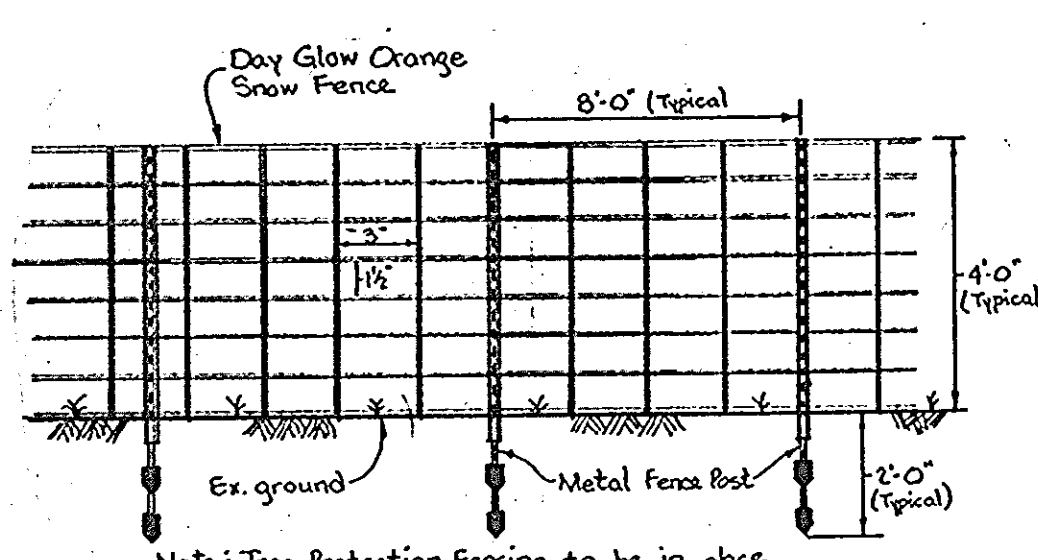
FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING SOIL STABILIZATION MATTING, OR SOD LINED RIP-RAP 4-8"
3	5.1-8.0%	SEED WITH SOIL STABILIZATION MATTING, OR SOD LINED RIP-RAP 4-8"	ENGINEERING DESIGN
4	8.1-20%	SEED WITH SOIL STABILIZATION MATTING, OR SOD LINED RIP-RAP 4-8"	ENGINEERING DESIGN

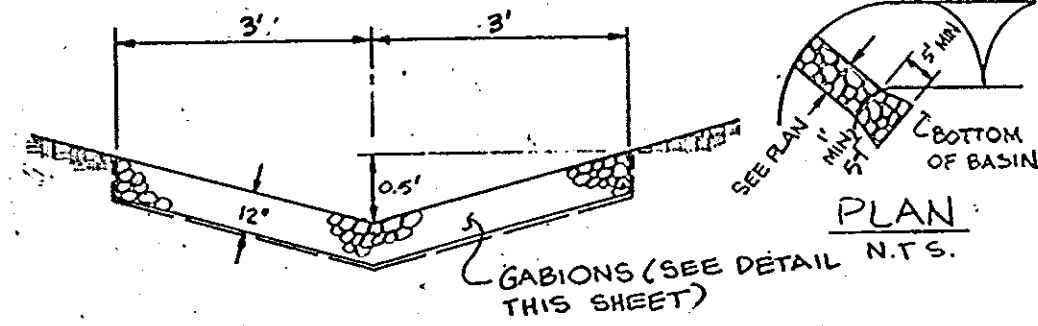
A. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.
 B. SUBSTITUTION FOR ANY OF THE ABOVE MATERIALS MAY BE CONSIDERED BUT MUST BE APPROVED BY THE ENGINEER.

- 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 G-1 OVER.
- PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

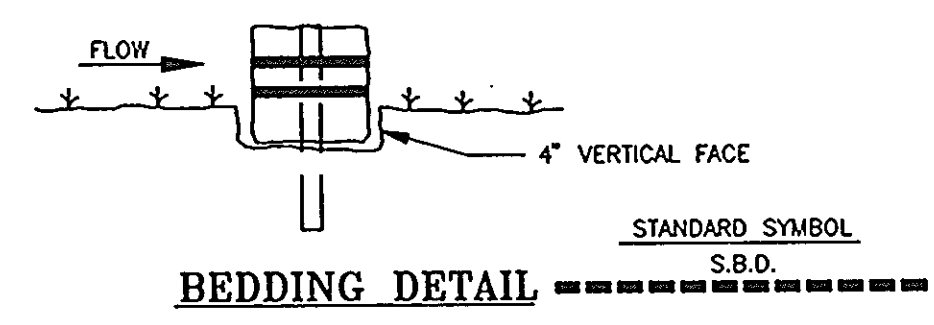
EARTH DIKE
N.T.S.



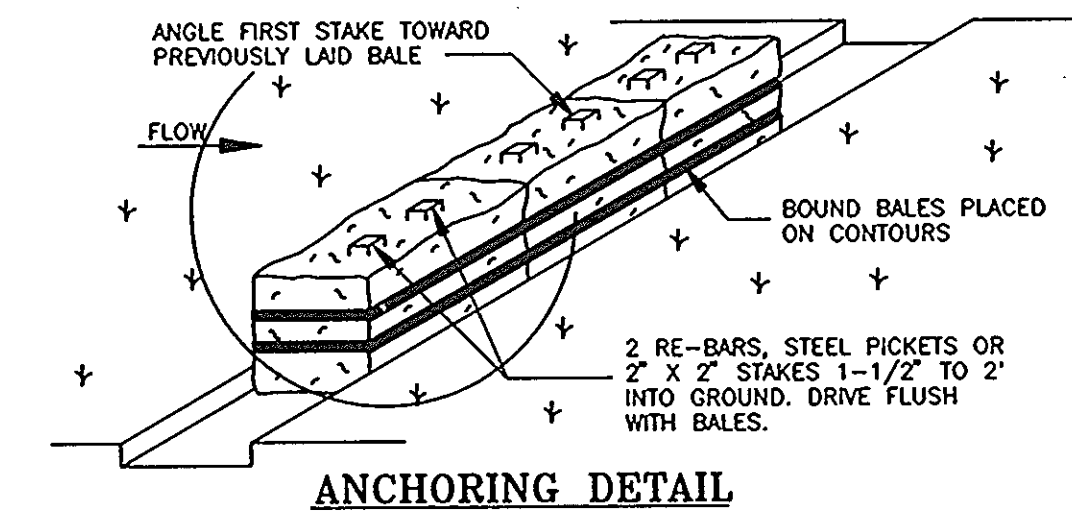
Note: Tree Protection Fencing to be in place prior to beginning of construction.
Tree Protection Fence Detail
 Not to Scale



INFLOW PROTECTION DETAIL
NOT TO SCALE



BEDDING DETAIL
S.B.D.

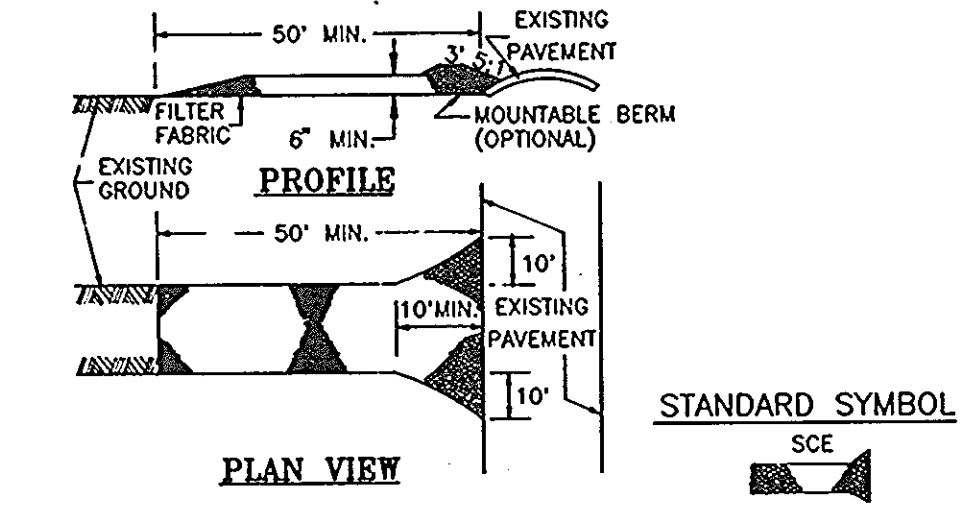


ANCHORING DETAIL

STRAW BALE DIKE SPECIFICATIONS

- BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH THE ENDS TIGHTLY ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED INTO SOIL A MINIMUM OF FOUR (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUS LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH BALE.
- INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

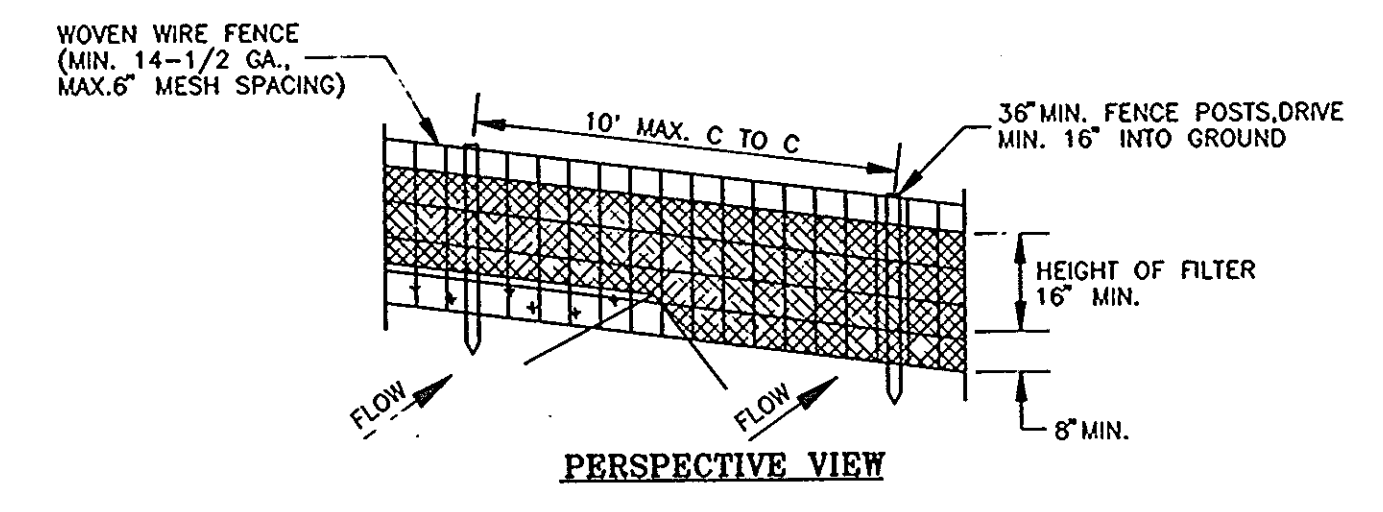
STRAW BALE DIKE DETAILS
N.T.S.



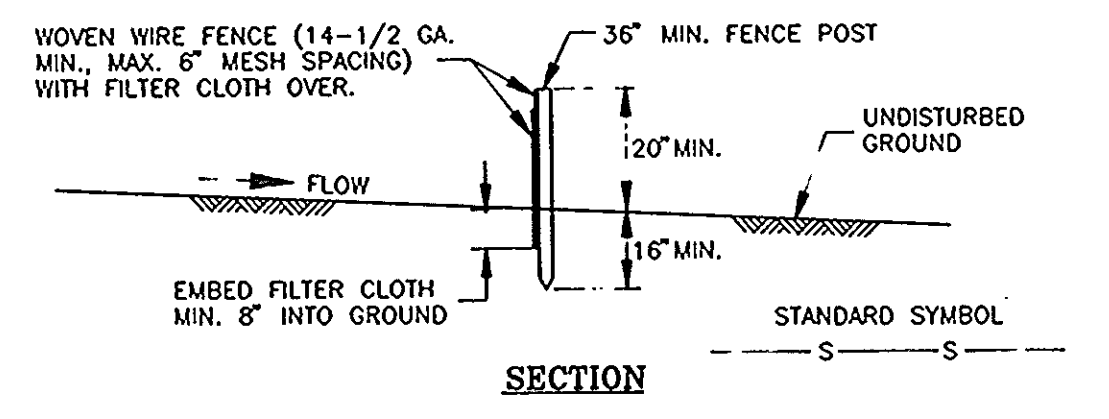
CONSTRUCTION SPECIFICATIONS

- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT
- LENGTH - AS REQUIRED BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENT LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINT WHERE INGRESS AND EGRESS OCCURS.
- FILTER CLOTH - WILL BE PLACED OVER ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY LOT.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SIDE SLOPE WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE INTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE
N.T.S.



PERSPECTIVE VIEW



SECTION

CONSTRUCTION NOTES FOR SILT FENCE

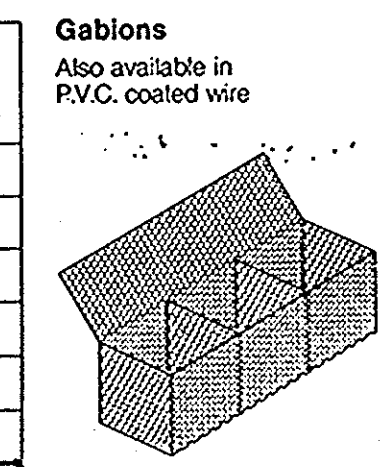
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP & MID SECTION.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD.
 FENCE: WOVEN WIRE, MIN. 14-1/2 GA., 6" MAX. MESH OPENING.
 FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL.
 PREFABRICATED UNIT: GEOFAB, ENVROFENCE, OR APPROVED EQUAL.

SILT FENCE
N.T.S.

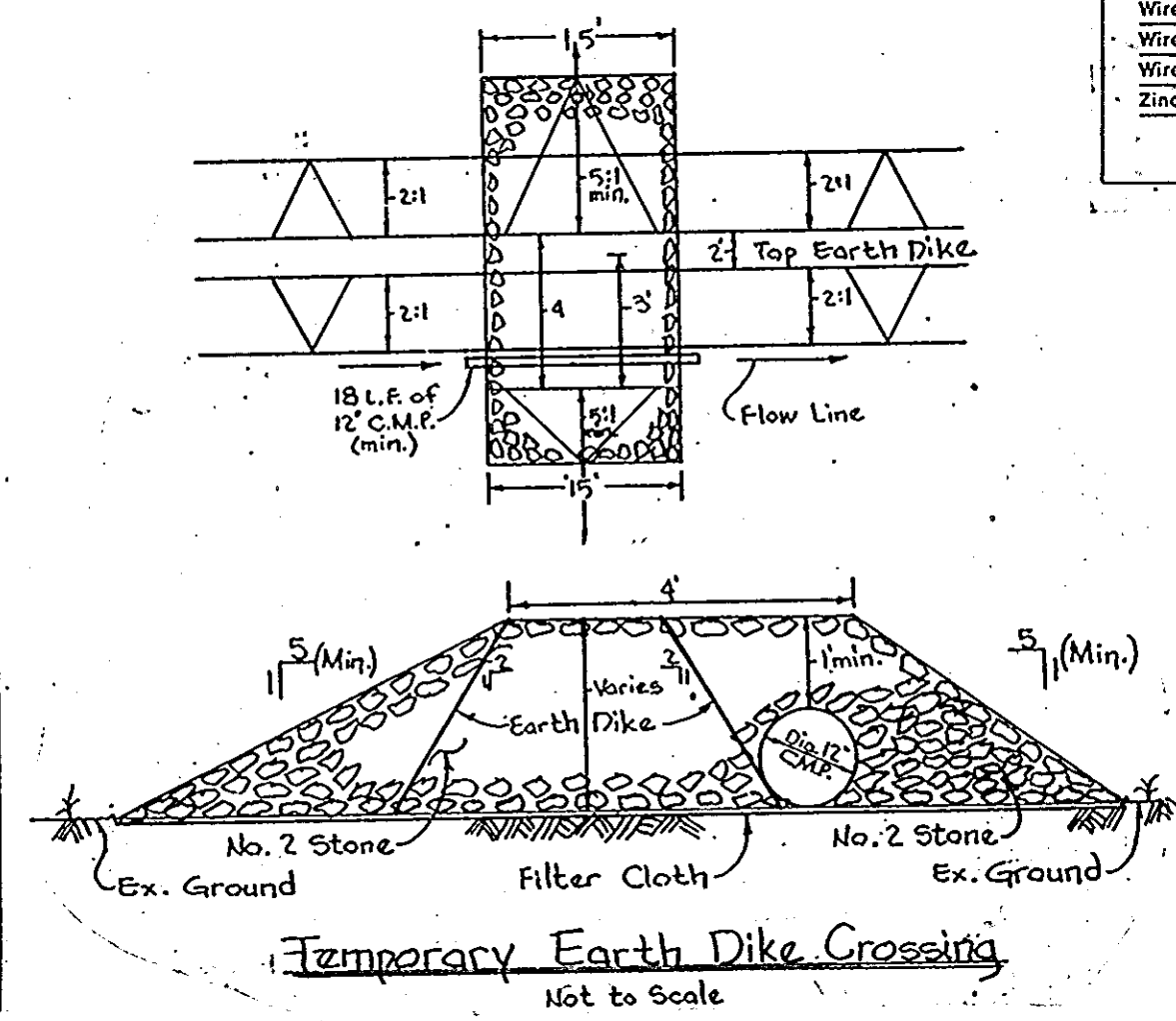
Letter Code	Length	Width	Height	Number of Diaphragms	Capacity Cubic Yards	Color Code
A	6'	3'	3'	1	2.0	BLUE
B	9'	3'	3'	2	3.0	WHITE
C	12'	3'	3'	3	4.0	BLACK
D	6'	3'	1'6"	1	1.0	RED
E	9'	3'	1'6"	2	1.5	GREEN
F	12'	3'	1'6"	3	2.0	YELLOW
G	6'	3'	1'	1	0.65	BLUE-RED
H	9'	3'	1'	2	1.0	BLUE-YELLOW
I	12'	3'	1'	3	1.33	BLUE-GREEN

SPECIFICATIONS	
ZINC COATED	TiNc COATED
Mesh opening: Max. nom. 3 1/4" x 4 1/4"	Max. nom. 3 1/4" x 4 1/4"
Wire for netting: 0.1181" nom. diam.	0.1062" nom. diam. plus nom. 0.02165" PVC
Wire for selvages: 0.1535" nom. diam.	0.1338" nom. diam. plus nom. 0.02165" PVC
Wire for binding: 0.0866" nom. diam.	0.0866" nom. diam. plus nom. 0.02165" PVC
Zinc coating: 0.80 ozs. per sq. ft.	0.80 ozs. per sq. ft. plus nom. 0.02165" PVC

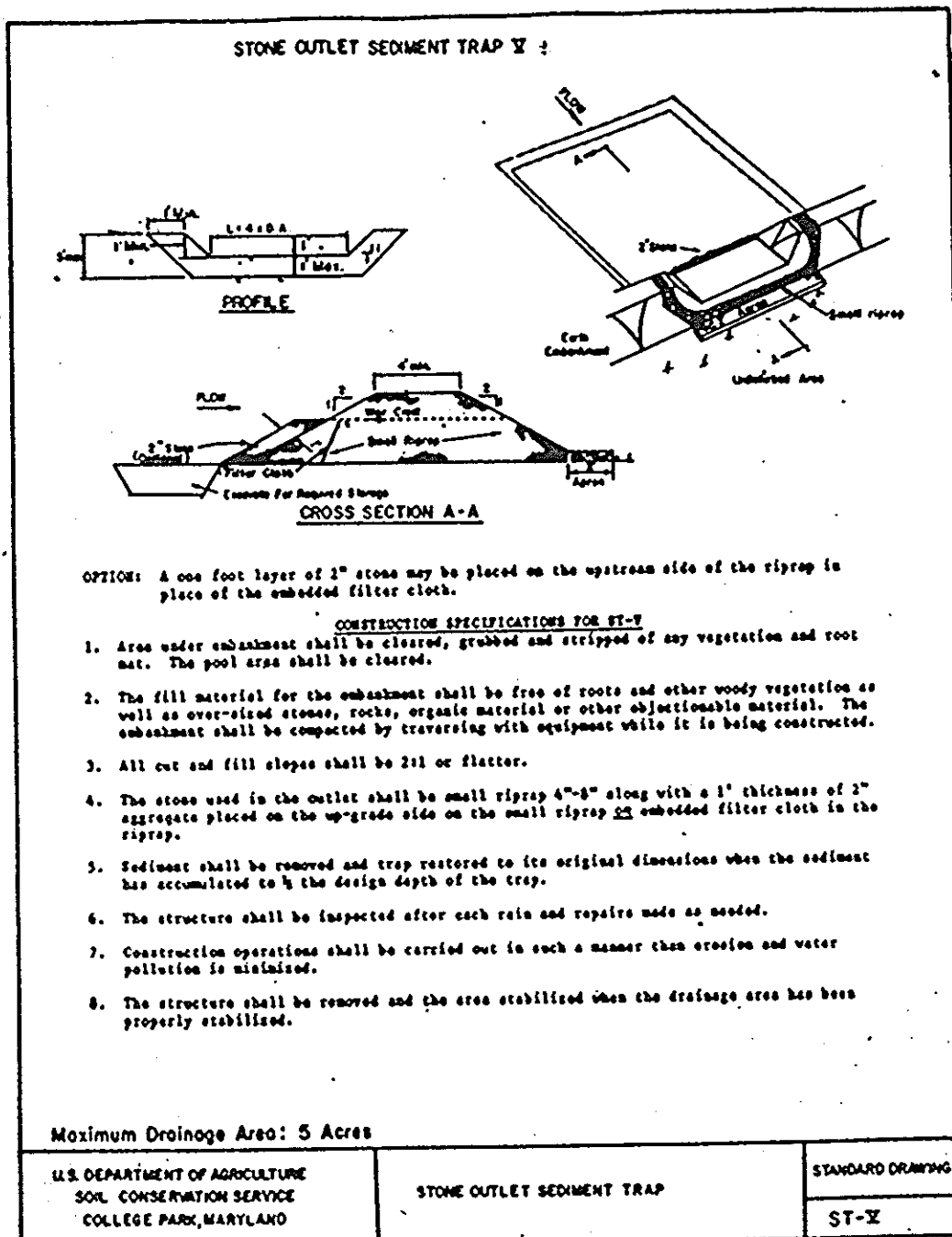
Minimum thickness of PVC coating shall be not less than 0.015".



GABION DETAIL



Temporary Earth Dike Crossing
Not to Scale



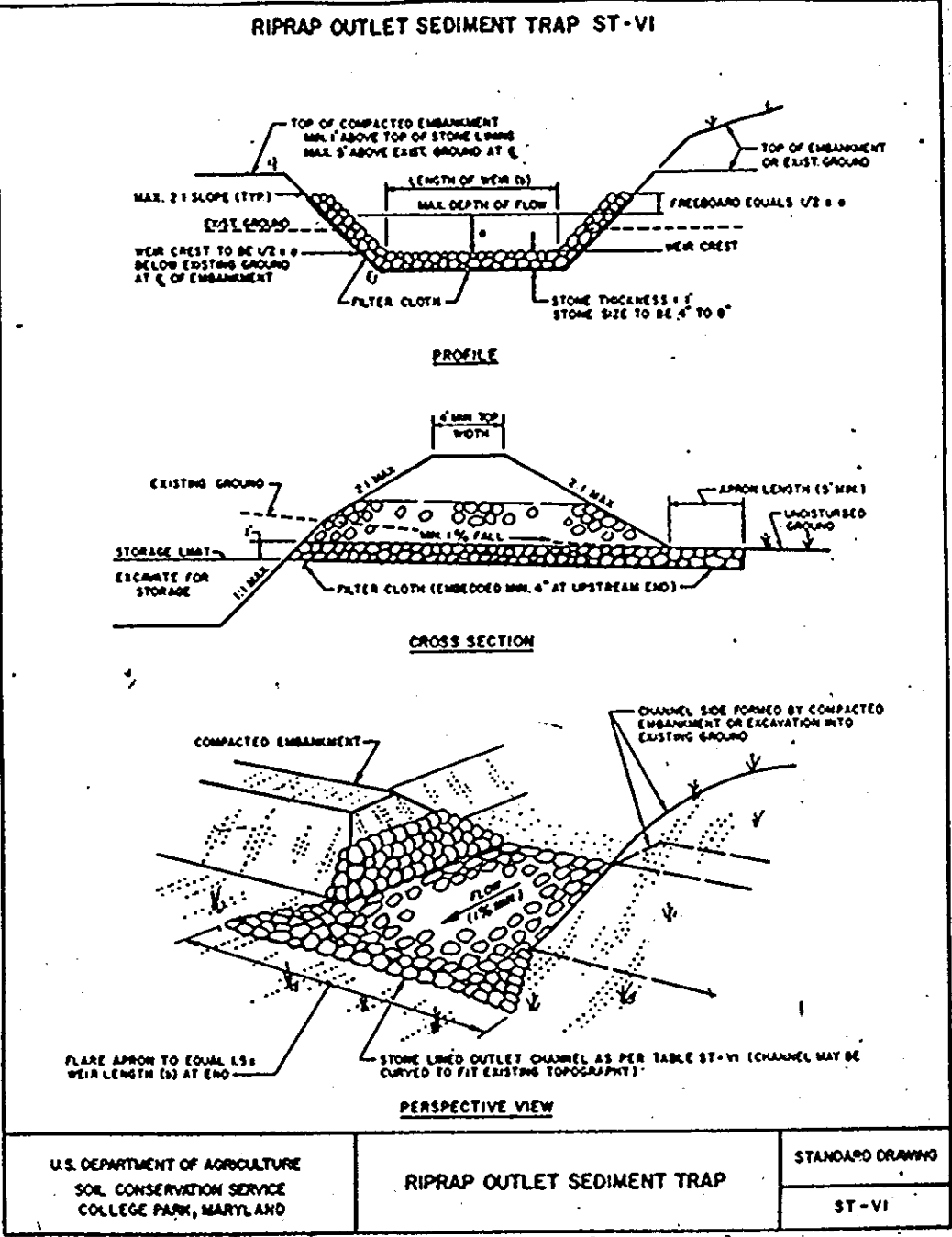
OPTION: A one foot layer of 3" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.

CONSTRUCTION SPECIFICATIONS FOR ST-VI:
 1. Area under embankment shall be cleared, graded and stripped of any vegetation and root mat. The pool area shall be cleared.
 2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by treading with equipment while it is being constructed.
 3. All cut and fill slopes shall be 2:1 or flatter.
 4. The stone used in the outlet shall be small riprap 4"-8" along with a 1" thickness of 3" aggregate placed on the up-grade side on the small riprap 22 embedded filter cloth in the riprap.
 5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
 6. The structure shall be inspected after each rain and repairs made as needed.
 7. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
 8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

Maximum Drainage Area: 5 Acres

U.S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
 COLLEGE PARK, MARYLAND

STONE OUTLET SEDIMENT TRAP
 STANDARD DRAWING
 ST-VI



CONSTRUCTION SPECIFICATIONS FOR ST-VI:
 1. Area under embankment shall be cleared, graded and stripped of any vegetation and root mat. The pool area shall be cleared.
 2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by treading with equipment while it is being constructed.
 3. All cut and fill slopes shall be 2:1 or flatter.
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 6. The structure shall be inspected after each rain and repairs made as needed.
 7. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
 8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

Maximum Drainage Area: 5 Acres

U.S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
 COLLEGE PARK, MARYLAND

RIPRAP OUTLET SEDIMENT TRAP
 STANDARD DRAWING
 ST-VI

ENGINEERS CERTIFICATE
 "WE HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON OUR PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT"

JOHN E. HARMS, JR. & ASSOCIATES
 SIGNATURE OF ENGINEER
 DATE

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

COCA COLA ENTERPRISES
 SIGNATURE OF OWNER
 DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 DATE
 S. SOIL CONSERVATION SERVICE

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

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 DATE
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

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

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

SUBMISSION NAME: PARKWAY CENTER
 SECTION/AREA: SECT 1
 PARCEL NUMBER: Q

PLAT NO. 10544-10546
 BLOCK NO. 19 & 1
 ZONE M-2
 TAX/ZONE: TM 38&44
 ELECT. DIST. 1 ST
 CENSUS TR. 601200

2150000
 2150500

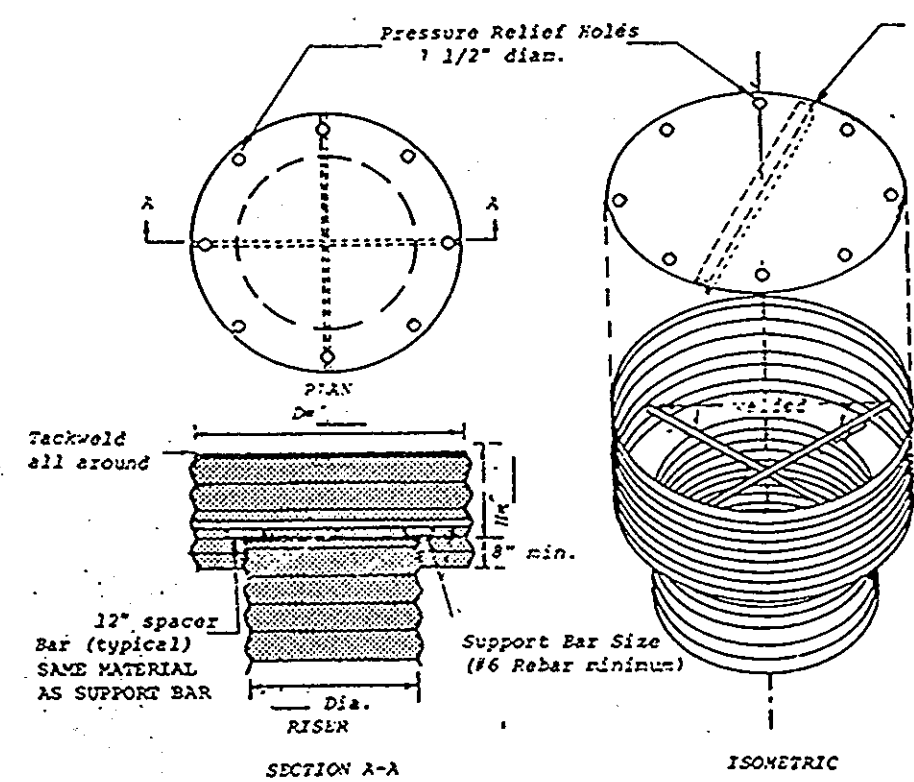
WATER CODE A-04
 SEWER CODE 2150500

PARKWAY CENTER
SEDIMENT CONTROL DETAILS
 COCA-COLA ENTERPRISES INC. PROPERTY
 TAX MAP 38 PARCEL Q
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

JOHN E. HARMS, JR. AND ASSOCIATES, INC.
 CONSULTING ENGINEERS - PLANNERS - SURVEYORS
 80 GOVERNOR RITCHIE HIGHWAY PASADENA, MARYLAND 21122
 P.O. BOX 5 (410) 647-6000

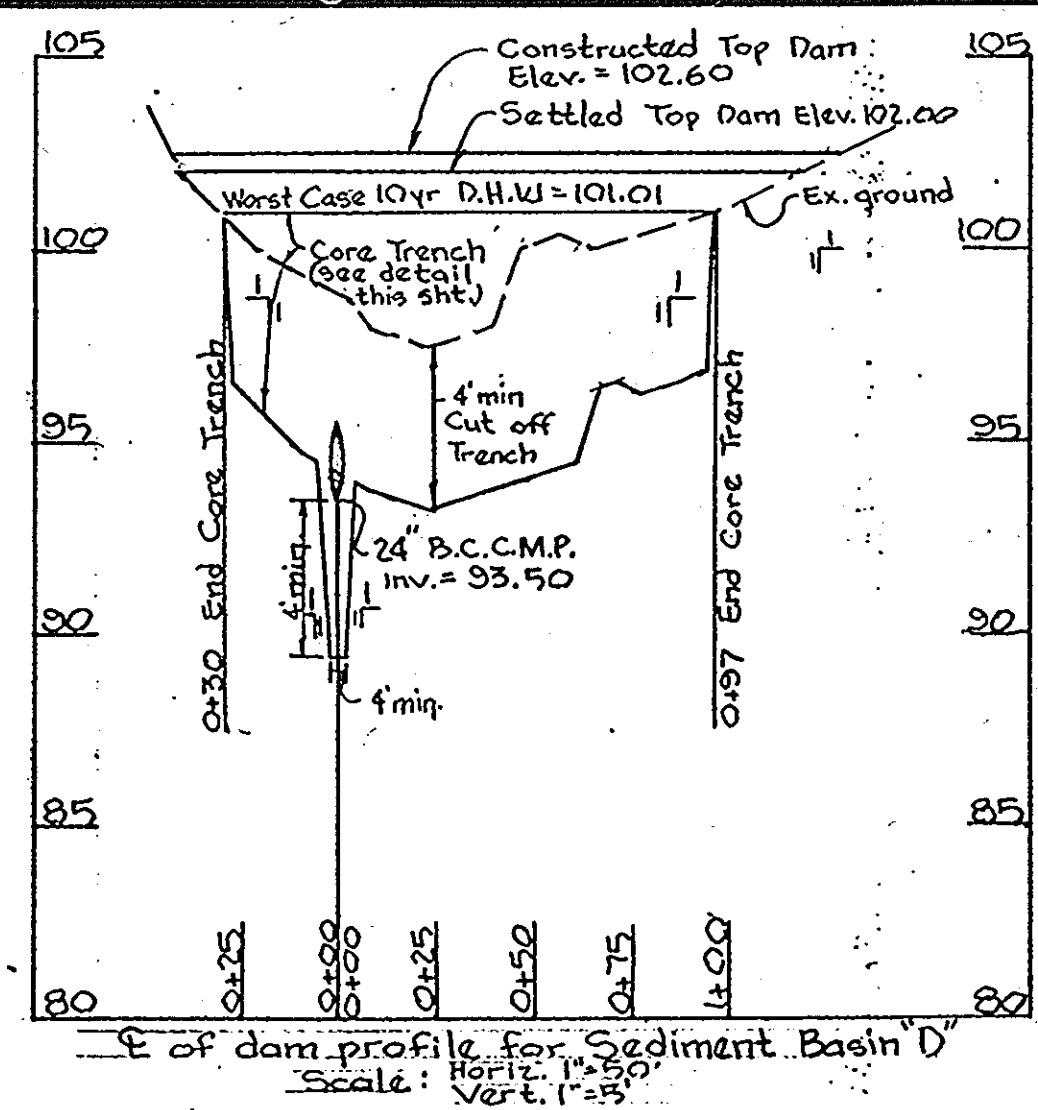
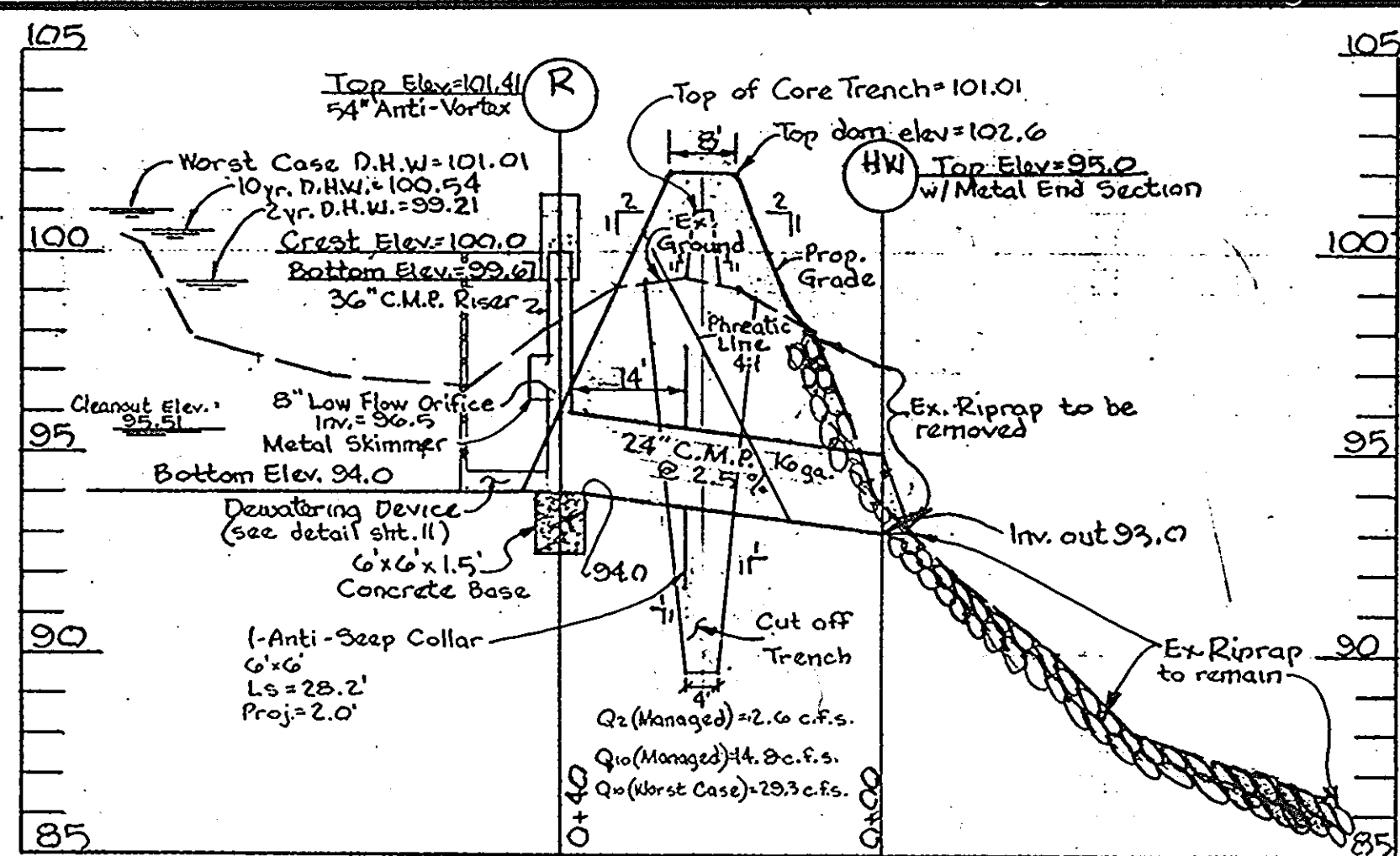
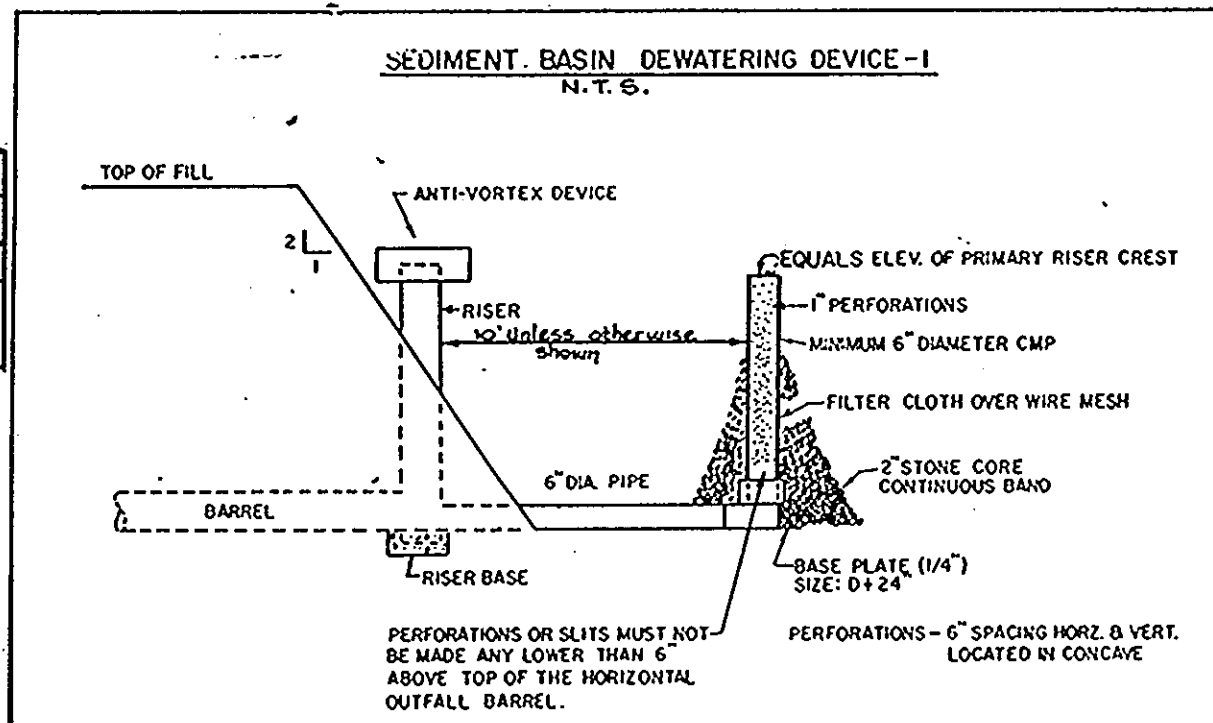
DESIGN BY: K.H.W.
 DRAWN BY: J.R.R.
 CHECKED BY: P.C.J.
 DATE: 12/16/92
 SCALE: AS SHOWN
 W.O. NO.: 06-92-005A

10 SHEET OF 12



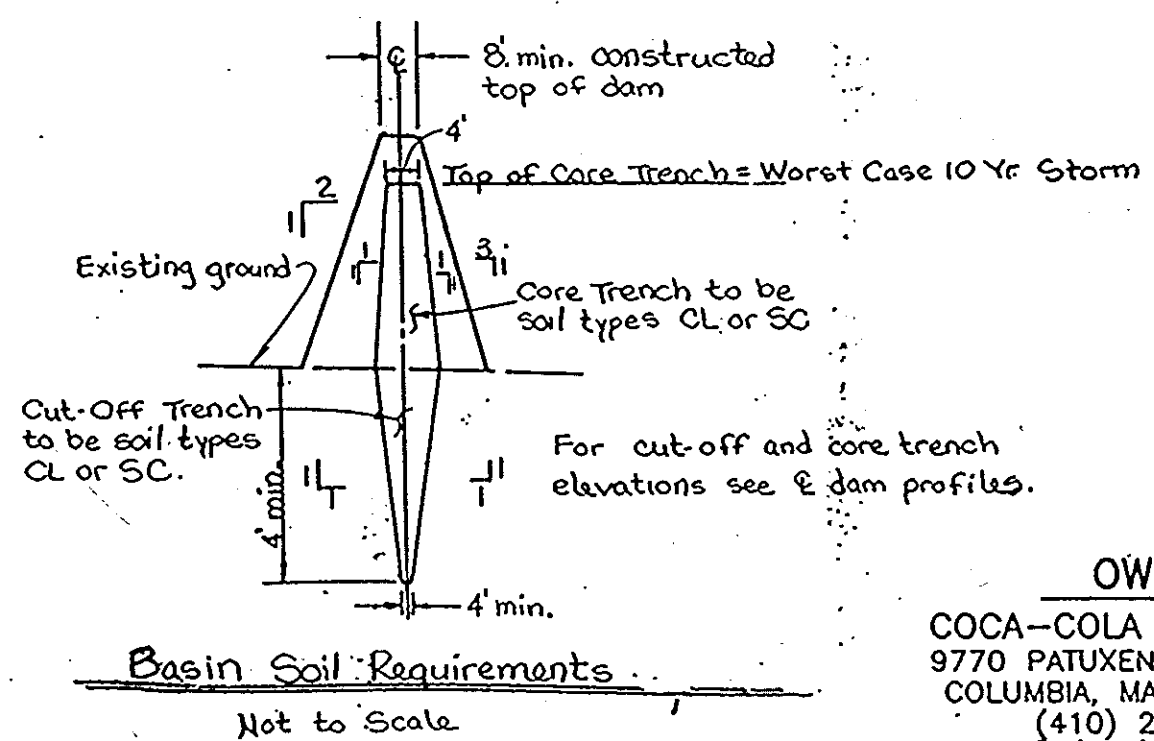
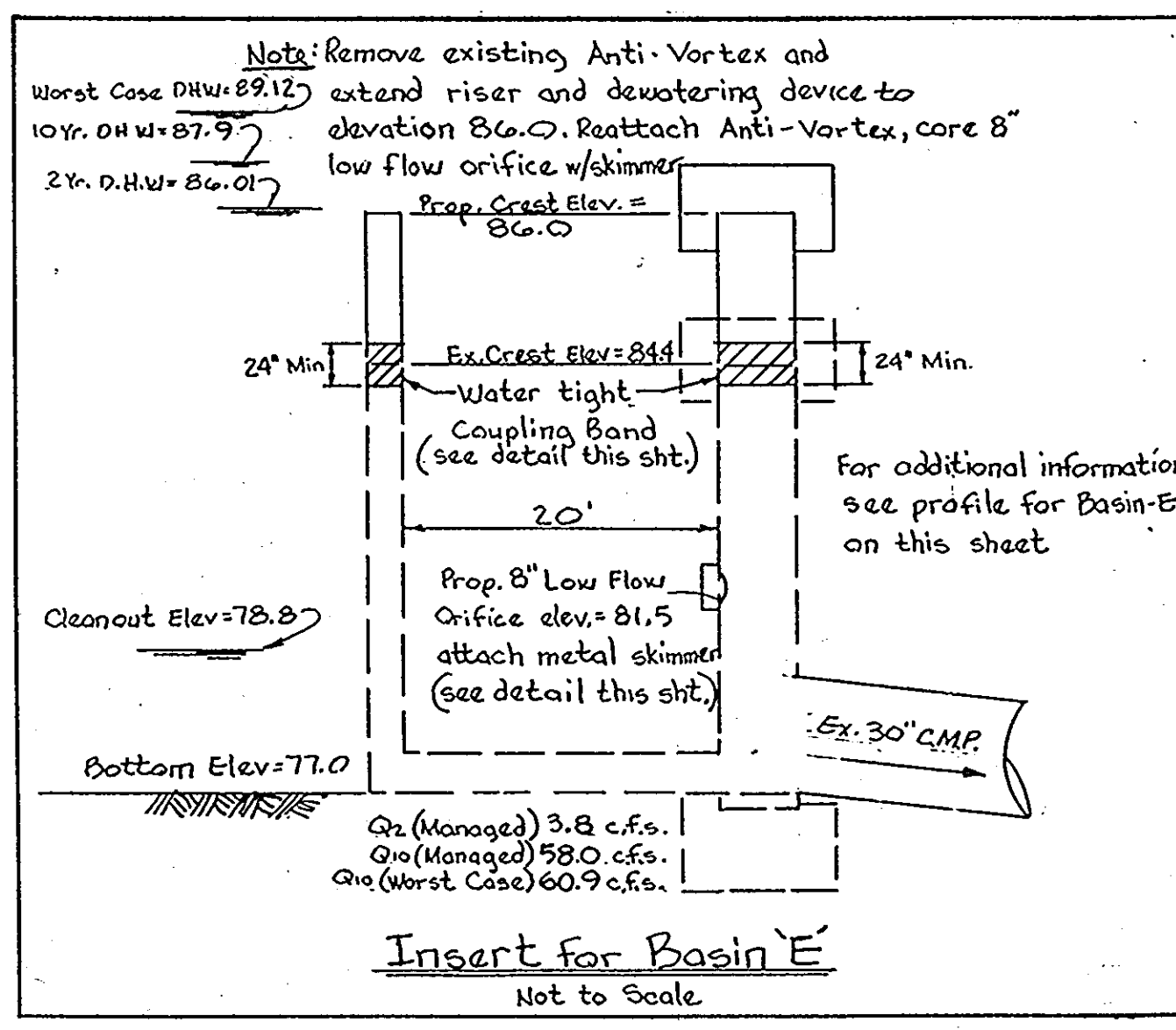
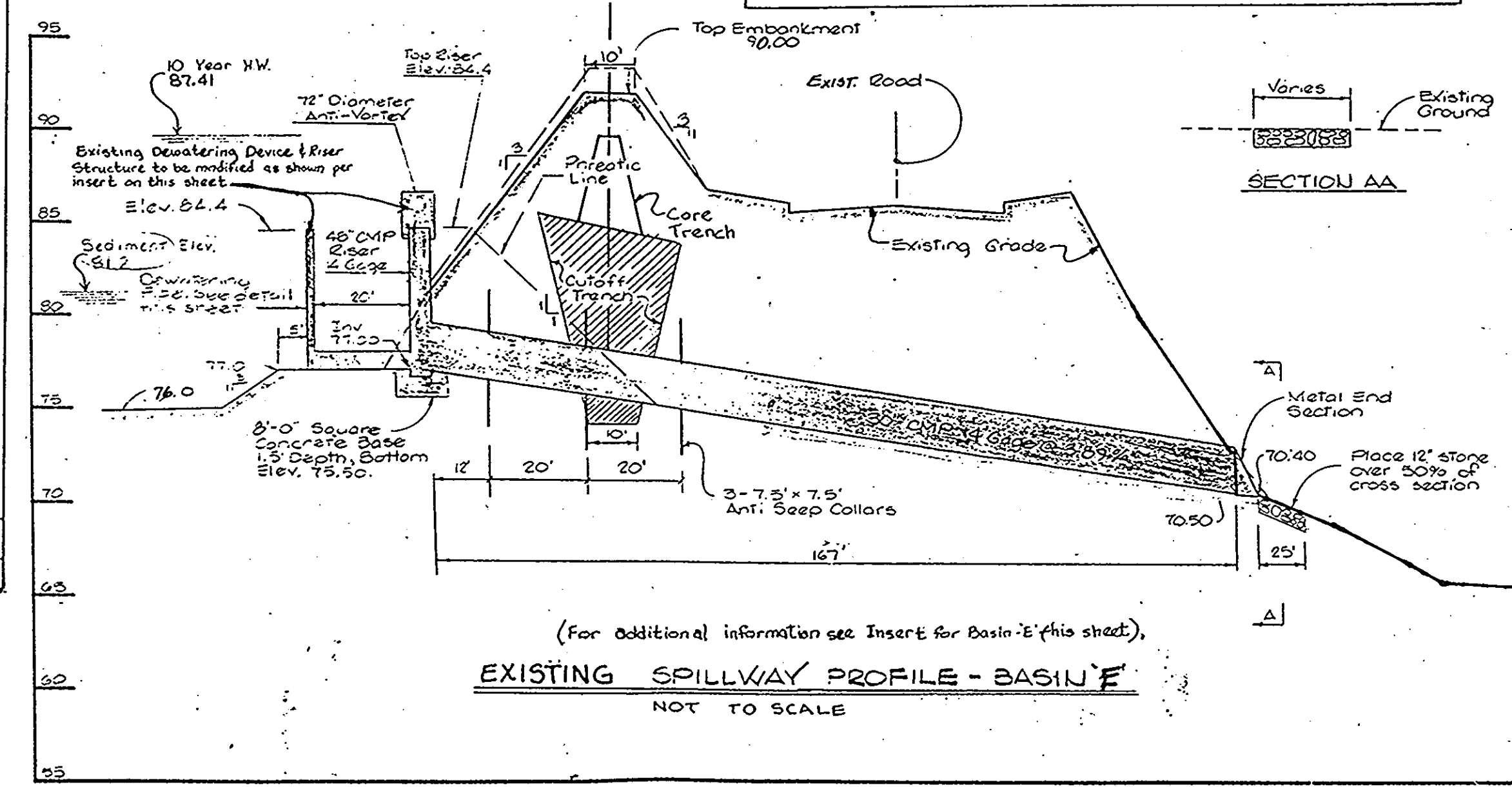
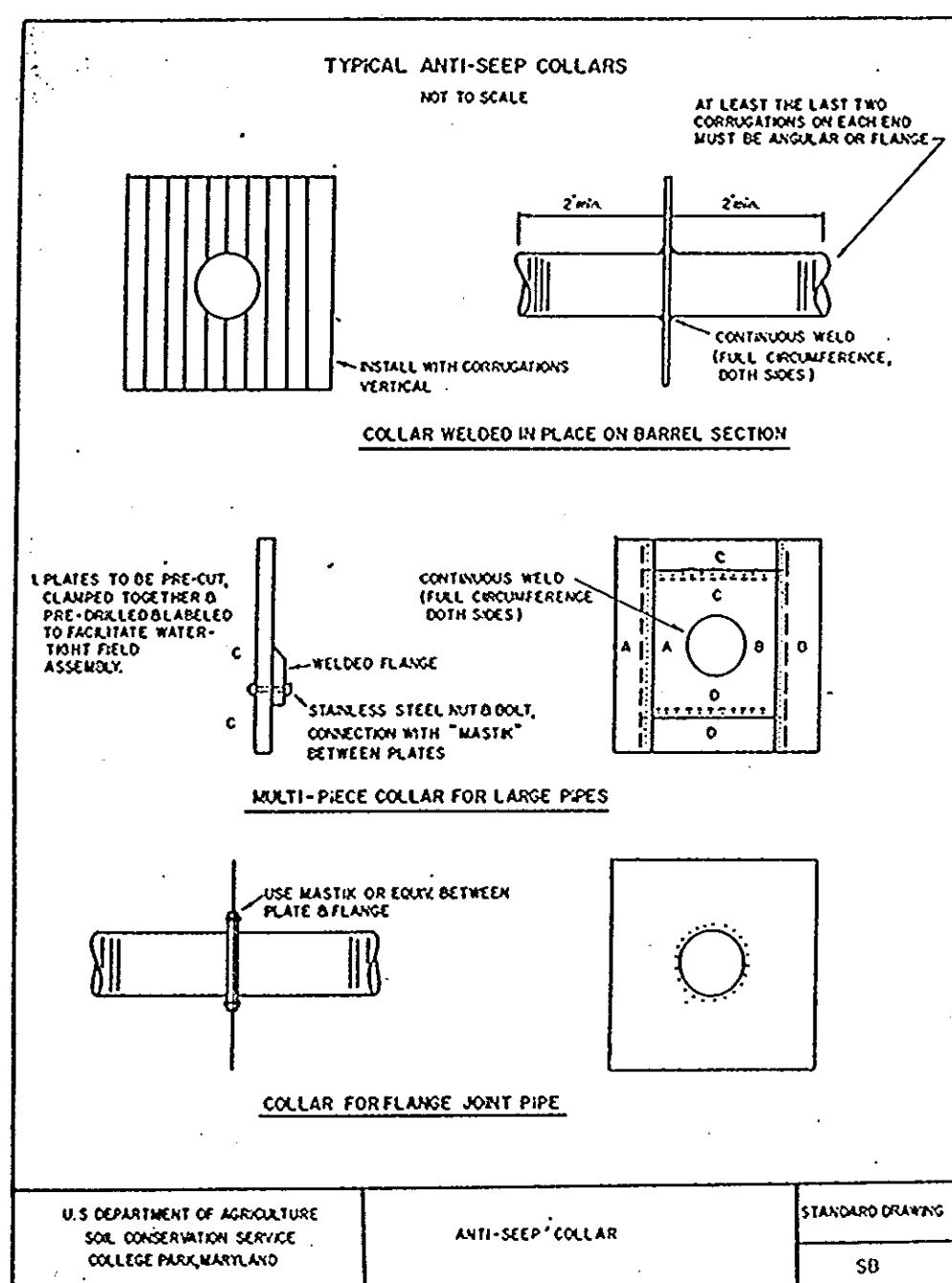
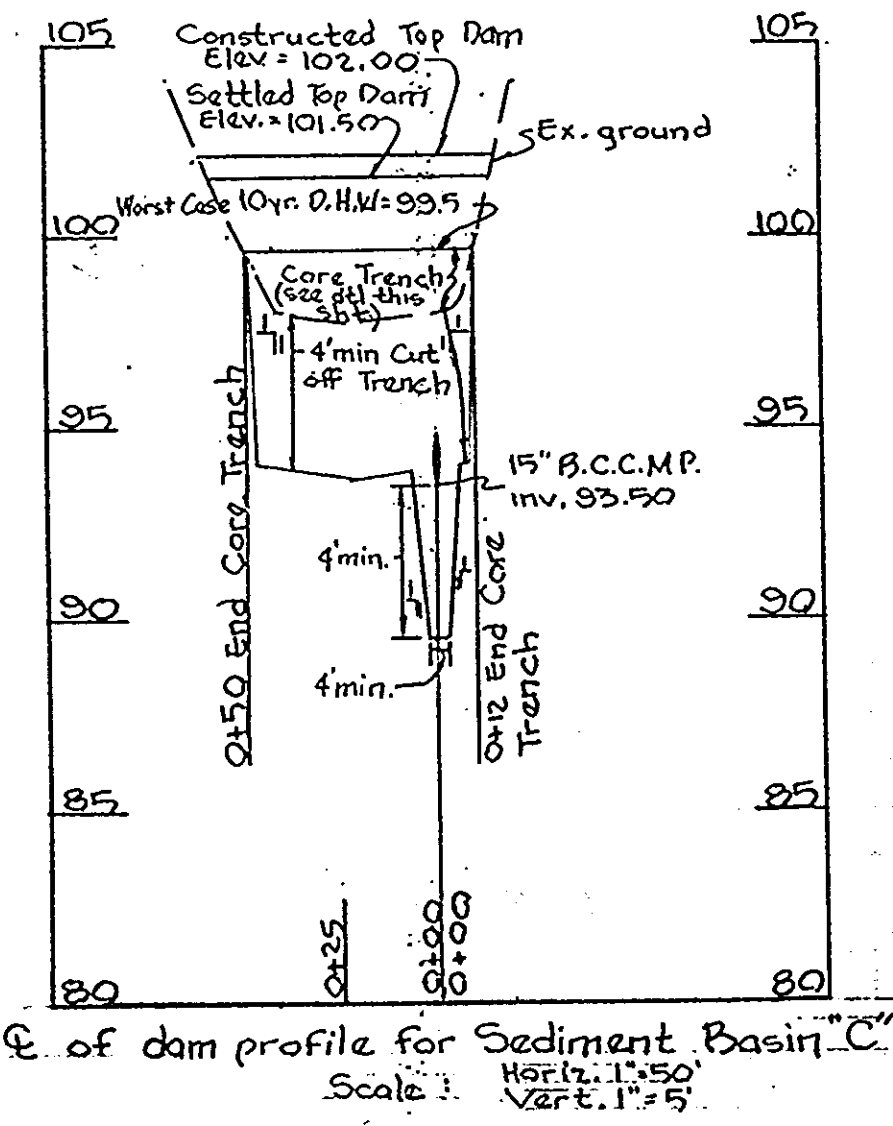
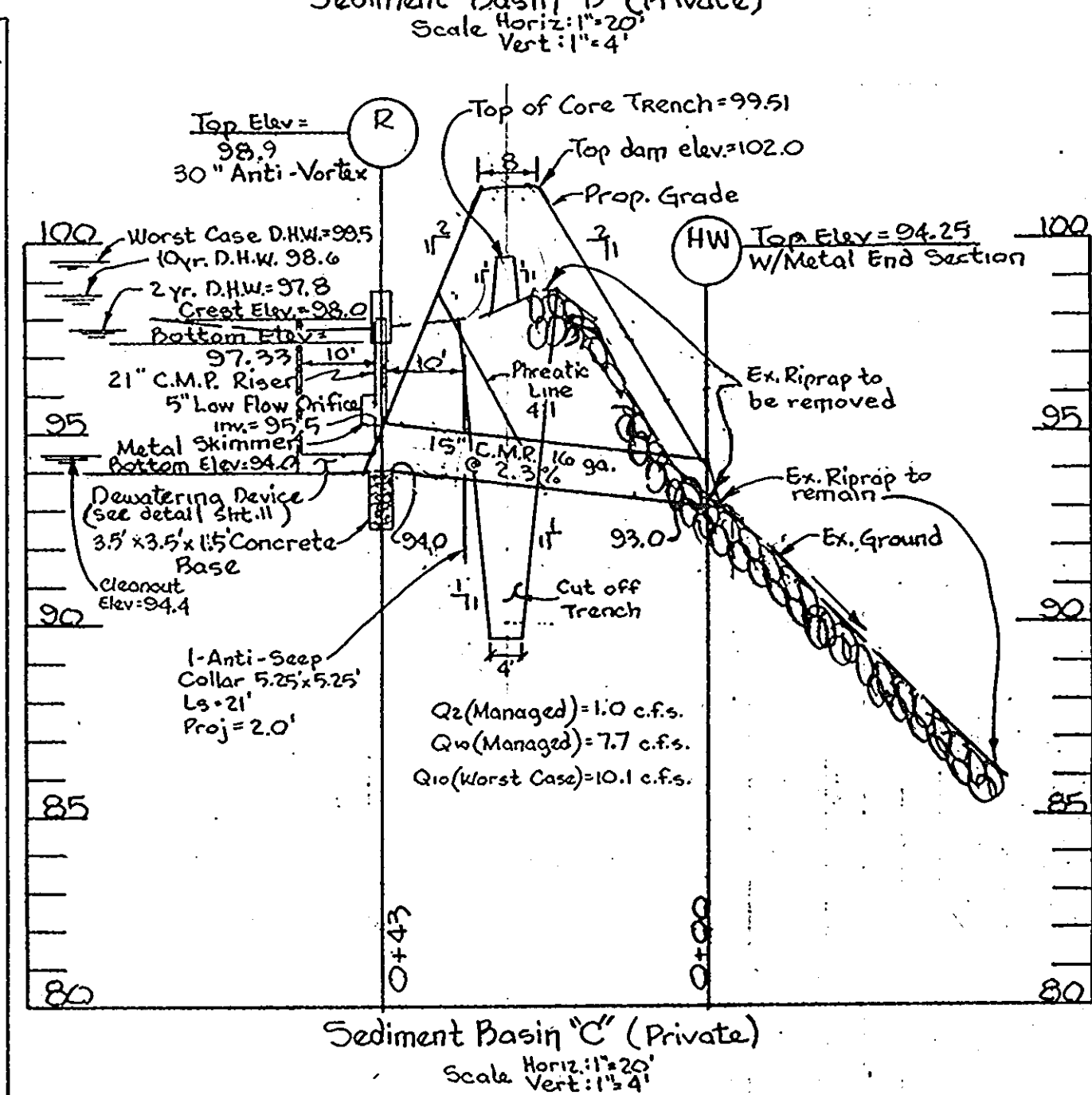
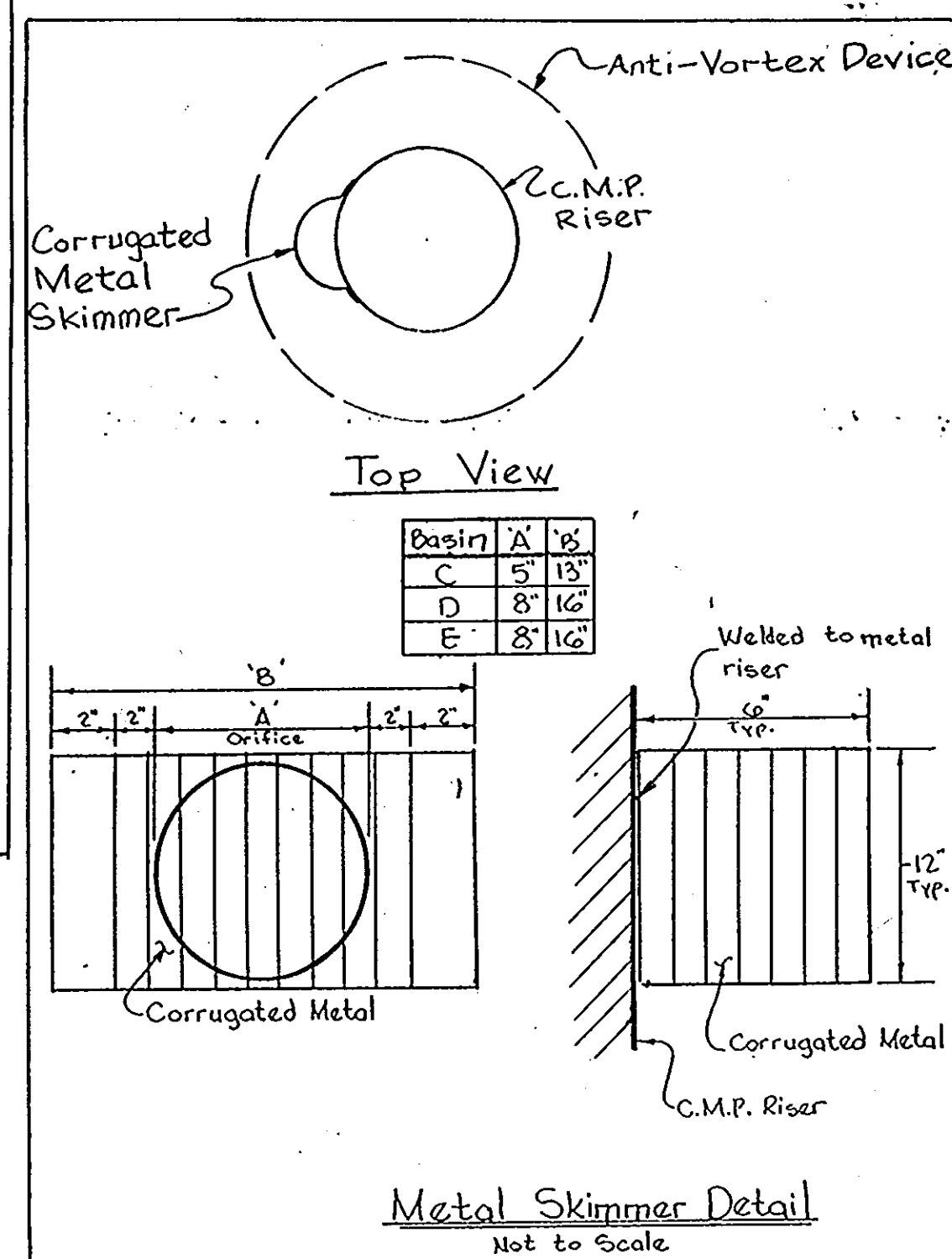
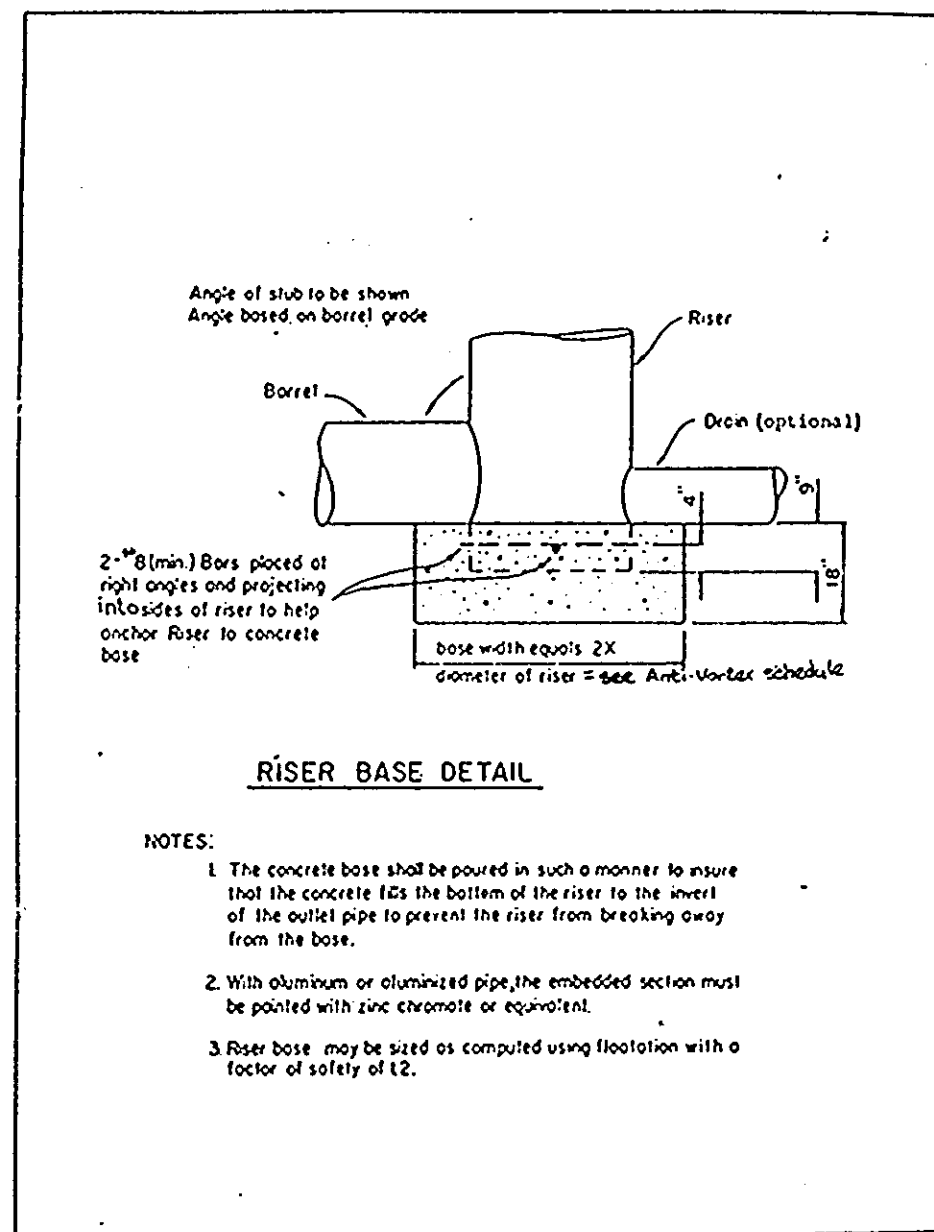
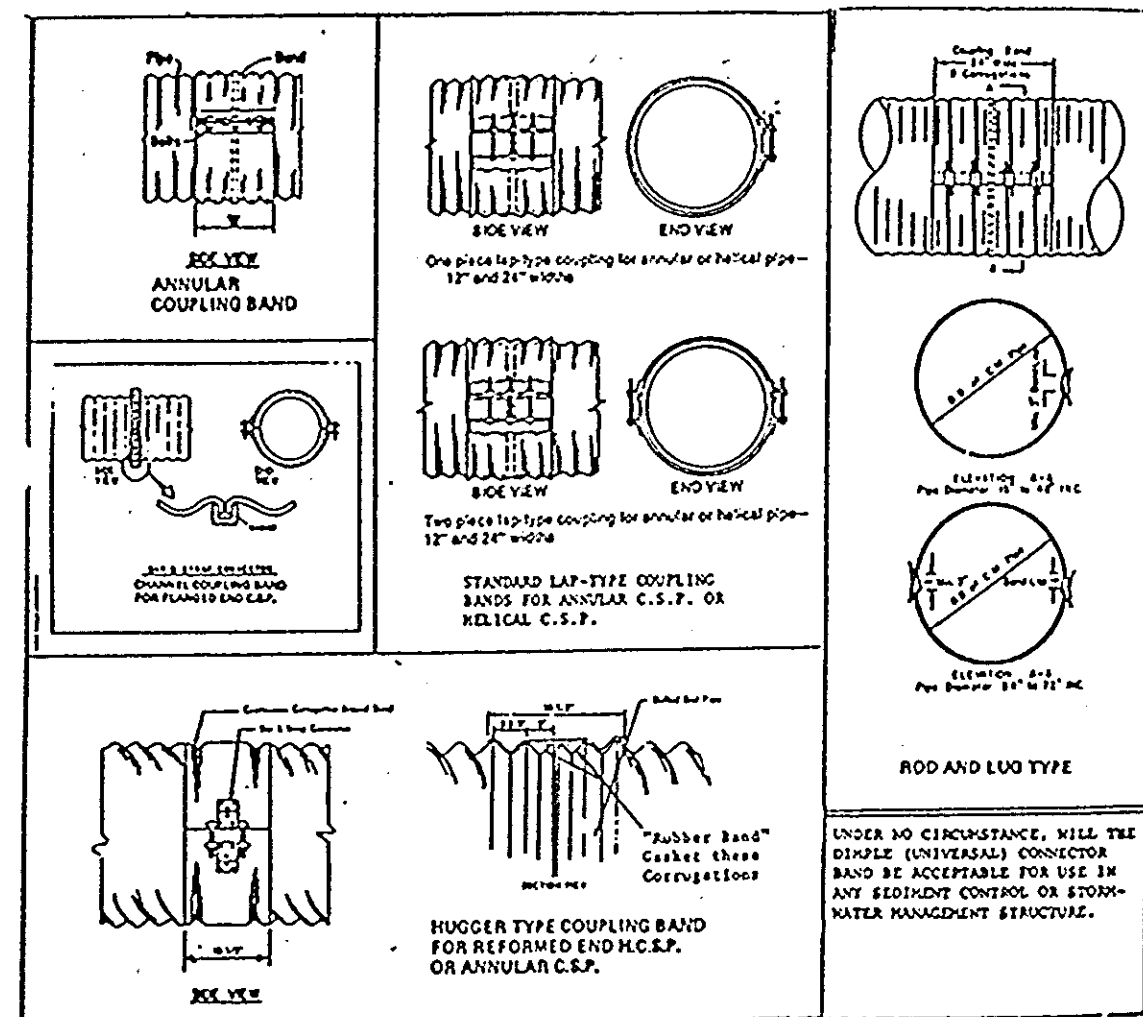
Riser	Basin	Top Dia.	Bottom Dia.	Height	Cylinder Stage	Top Stage	Base
C	21"	30"	11"	16	16	3/4" x 3/4" x 1/2"	8" x 8" x 1/2"
D	36"	54"	17"	14	12	6" x 6" x 1/2"	10" x 8" x 1/2"
E	48"	72"	21"	12	10	8" x 8" x 1/2"	10" x 8" x 1/2"

- Notes:
- The cylinder must be firmly fastened to the top of the riser.
 - 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)

TYPES OF COUPLERS FOR CORRUGATED STEEL PIPE (All coupler bands require support gaskets)



<p>ENGINEERS CERTIFICATE</p> <p>"WE HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON OUR PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT"</p> <p>JOHN E. HARMS, JR. & ASSOCIATES SIGNATURE OF ENGINEER: [Signature] DATE: 2/17/93</p>	<p>OWNERS CERTIFICATE</p> <p>"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM THE MARYLAND DEPARTMENT OF THE ENVIRONMENT'S APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY."</p> <p>COCA COLA ENTERPRISES SIGNATURE OF OWNER: [Signature] DATE: 2/17/93</p>	<p>REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.</p> <p>[Signature] 2/15/93 S. SOIL CONSERVATION SERVICE DATE</p> <p>THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT</p> <p>APPROVED: [Signature] 2/15/93 HOWARD SOIL CONSERVATION DISTRICT DATE</p>	<p>APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING</p> <p>[Signature] 2/19/93 DIRECTOR DATE</p> <p>[Signature] 2/19/93 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE</p> <p>APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS</p> <p>[Signature] 2/19/93 DIRECTOR DATE</p>	<p>APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT</p> <p>[Signature] 3-5-93 COUNTY HEALTH OFFICER DATE</p> <p>SUBMISSION NAME: PARKWAY CENTER SECTION/AREA: SECT 1 PARCEL NUMBER: "Q"</p> <p>PLAT NO. 10544-10546 BLOCK NO. 19 & 1 ZONE M-2 TAX/ZONE TM 38 & 44 ELECT. DIST. 1ST CENSUS TR. 601200</p> <p>WATER CODE A-04 SEWER CODE 2150500</p>	<p>OWNER</p> <p>COCA-COLA ENTERPRISES 9770 PATUXENT WOODS DRIVE, COLUMBIA, MARYLAND 21046 (410) 290-3249 FAX (410) 290-3015</p>
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PARKWAY CENTER
SEDIMENT CONTROL DETAILS
 COCA-COLA ENTERPRISES INC. PROPERTY

TAX MAP 38 PARCEL Q
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

JOHN E. HARMS, JR. AND ASSOCIATES, INC.
 CONSULTING ENGINEERS - PLANNERS - SURVEYORS

90 GOVERNOR RITCHIE HIGHWAY PASADENA, MARYLAND 21122 P.O. BOX 6 (410) 647-8000

DESIGN BY: K.H.W.
 DRAWN BY: J.R.R.
 CHECKED BY: P.C.J.
 DATE: 12/16/92
 SCALE: AS SHOWN
 W.O. NO.: 06-92-005A

11 SHEET OF 12

SEDIMENT BASIN CONSTRUCTION SPECIFICATIONS

Site Preparation

Areas under the embankment shall be cleared, grubbed, and stripped of topsoil to remove trees, vegetation, roots or other objectionable material. In order to facilitate clean-out and restoration, the pool area (measured at the top of the pipe spillway) will be cleared of all brush, trees, and other objectionable materials.

Cut-off Trench

A cut-off trench shall be excavated along the centerline of earth fill embankments. The minimum depth shall be two feet. The cut-off trench shall extend up both abutments to the riser crest elevation. The minimum bottom width shall be four feet, but wide enough to permit operation of excavation and compaction equipment. The side slopes shall be no steeper than 1:1. Compaction requirements shall be the same as those for embankment. The trench shall be dewatered during the backfilling-compaction operations.

Embankment

The fill material shall be taken from approved areas on the plans. It shall be clean mineral soil free of roots, woody vegetation, oversized stones, rocks, or other objectionable material. Relatively pervious materials, such as sand or gravel (Unified Soil Classes GW, GP, SW & SP) shall not be placed in the embankment. Areas on which fill is to be placed shall be scarified prior to placement of fill. The fill material shall contain sufficient moisture so that it can be formed by hand into a ball without crumbling. If water can be squeezed out of the ball, it is too wet for proper compaction. Fill material shall be placed six-inch to eight-inch thick continuous layers over the entire length of the fill. Compaction shall be obtained by routing and hauling the construction equipment over the fill so that the entire surface of each layer of the fill is traversed by at least one wheel or tread track of the equipment or by the use of a compactor. The embankment shall be constructed to an elevation 10 percent higher than the design height to allow for settlement.

Pipe Spillways

The riser shall be securely attached to the barrel or barrel stub by welding the full circumference making a watertight structural connection. The barrel stub must be attached to the riser at the same percent (angle) of grade as the outlet conduit. The connection between the riser and the riser base shall be watertight. All connections between barrel sections must be achieved by approved watertight band assemblies. (See page 18.22 for details). The barrel and riser shall be placed on a firm, smooth foundation of impervious soil. Previous materials such as sand, gravel, or crushed stone shall not be used as backfill around the pipe or anti-seep collars. The fill material around the pipe spillway shall be placed in four inch layers and compacted under and around the pipe to at least the same density as the adjacent embankment.

A minimum depth of two feet of hand compacted backfill shall be placed over the pipe spillway before crossing it with construction equipment. Steel base plates on risers shall have at least 2-1/2 feet of compacted earth, stone or gravel placed over it to prevent flotation.

Emergency Spillway

The emergency spillway shall be installed in undisturbed ground. The achievement of planned elevations, grades, design width, entrance and exit channel slopes are critical to the successful operation of the emergency spillway and must be constructed within a tolerance of + 0.2 feet.

Vegetative Treatment

Stabilize the embankment and emergency spillway in accordance with the appropriate vegetative Standard and Specifications immediately following construction. In no case shall the embankment remain unstabilized for more than seven (7) days.

Erosion and Pollution Control

Construction operations shall be carried out in such a manner that erosion and water pollution will be minimized. State and local laws shall be complied with concerning pollution abatement.

Safety

State and local requirements shall be met concerning fencing and signs, warning the public of hazards of soft sediment and floodwater.

Maintenance

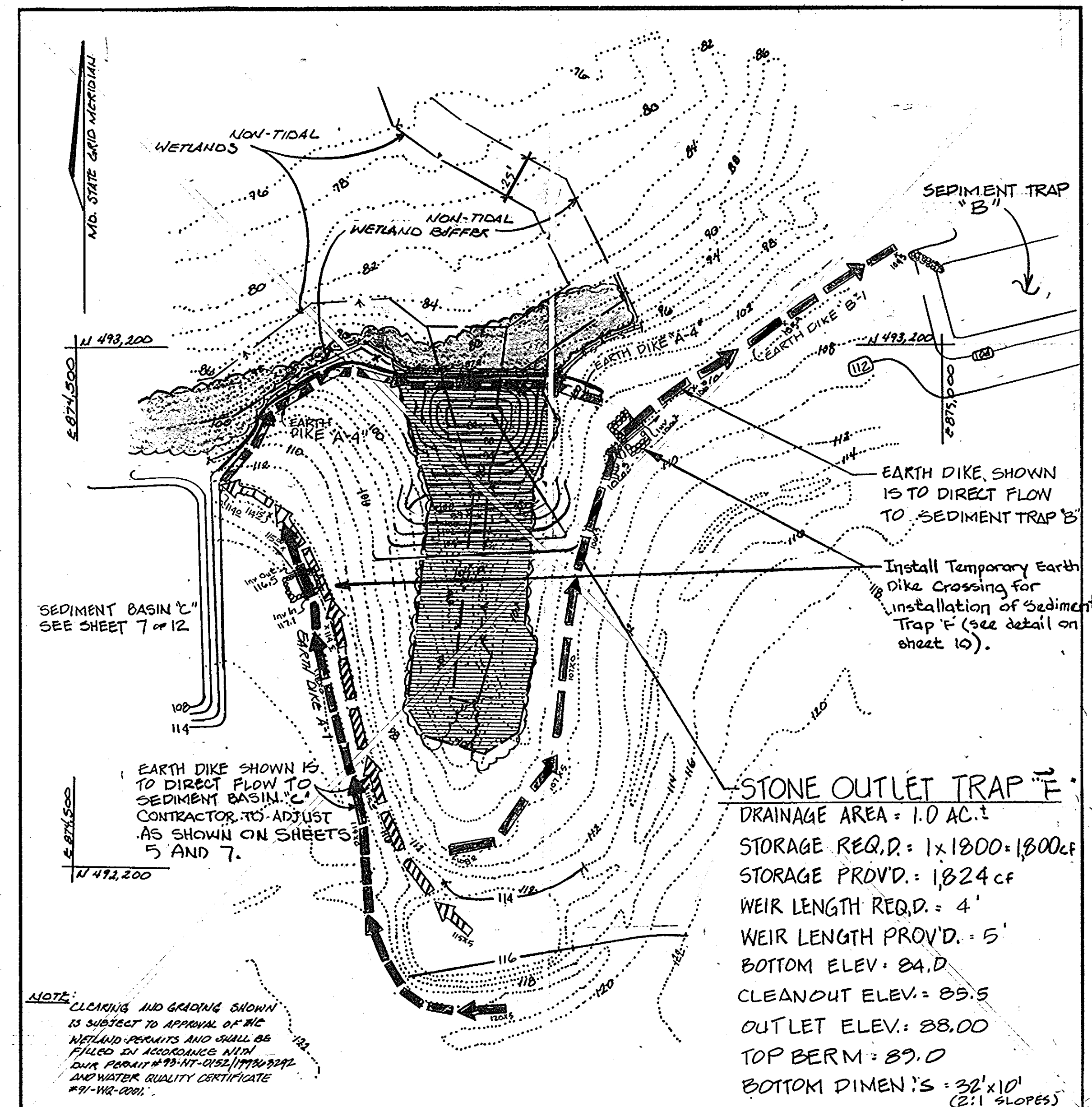
1. Repair all damages caused by soil erosion and construction equipment at or before the end of each working day.
2. Sediment shall be removed from the basin when it reaches the specified distance below the top of the riser. This sediment shall be placed in such a manner that it will not erode from the site. The sediment shall not be deposited downstream from the embankment, adjacent to a stream or flood plain.

Final Disposal

When temporary structures have served their internal purpose and the contributing drainage area has been properly stabilized, the embankment and resulting sediment deposits are to be leveled or otherwise disposed of in accordance with the approved sediment control plan. The proposed use of a sediment basin site will often dictate final disposition of the basin and any sediment contained therein. If the site is scheduled for future construction, then the basin material and trapped sediments must be removed, safely disposed of, and backfilled with a structural fill. When the basin area is to remain open space the pond may be pumped dry, graded and back filled.

CONSTRUCTION SPECIFICATIONS FOR RIPRAP OUTLET & STONE OUTLET SEDIMENT TRAPS

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



Δ *INSERT "A"
SCALE: 1"=50'

OWNER
COCA-COLA ENTERPRISES
9770 PATUXENT WOODS DRIVE
COLUMBIA, MARYLAND 21046
(410) 290-3249
FAX (410) 290-3015

**PARKWAY CENTER
SEDIMENT CONTROL DETAILS**
COCA-COLA ENTERPRISES INC. PROPERTY
TAX MAP 38 PARCEL Q
1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

JOHN E. HARMS, JR. AND ASSOCIATES, INC.
CONSULTING ENGINEERS - PLANNERS - SURVEYORS
90 GOVERNOR RITCHIE HIGHWAY PASADENA, MARYLAND 21122 P.O. BOX 5 (410) 647-8000

DESIGN BY: K.H.W.
DRAWN BY: J.R.R.
CHECKED BY: P.C.U.
DATE: 12/16/92
SCALE: AS SHOWN
W.O. NO. 06-92-005A
12 SHEET OF 12

ENGINEERS CERTIFICATE
"WE HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON OUR PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT"
JOHN E. HARMS, JR. & ASSOCIATES
SIGNATURE OF ENGINEER: [Signature] DATE: 1/17/93

OWNERS CERTIFICATE
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM THE MARYLAND DEPARTMENT OF THE ENVIRONMENT'S APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY."
COCA COLA ENTERPRISES
SIGNATURE OF OWNER: [Signature] DATE: 2/17/93

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
[Signature] DATE: 2/25/93
S. SOIL CONSERVATION SERVICE
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
APPROVED: [Signature] DATE: 2/25/93
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
[Signature] DATE: 3/10/93
DIRECTOR
[Signature] DATE: 3/15/93
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
APPROVED: [Signature] DATE: 3-2-93
DIRECTOR CHIEF, BUREAU OF ENGINEERING

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
[Signature] DATE: 3-5-93
COUNTY HEALTH OFFICER
SUBMISSION NAME: PARKWAY CENTER SECTION/AREA: SECT 1 PARCEL NUMBER: "Q"
PLAT NO. 10544-10546 BLOCK NO. 19 & 1 ZONE M-2 TAX/ZONE TM 28.444 ELECT. DIST. 1ST CENSUS TR. 601200
WATER CODE A-04 SEWER CODE 2150500

Δ	ADD INSERT "A"	1-20-92
NO.	REVISION	DATE