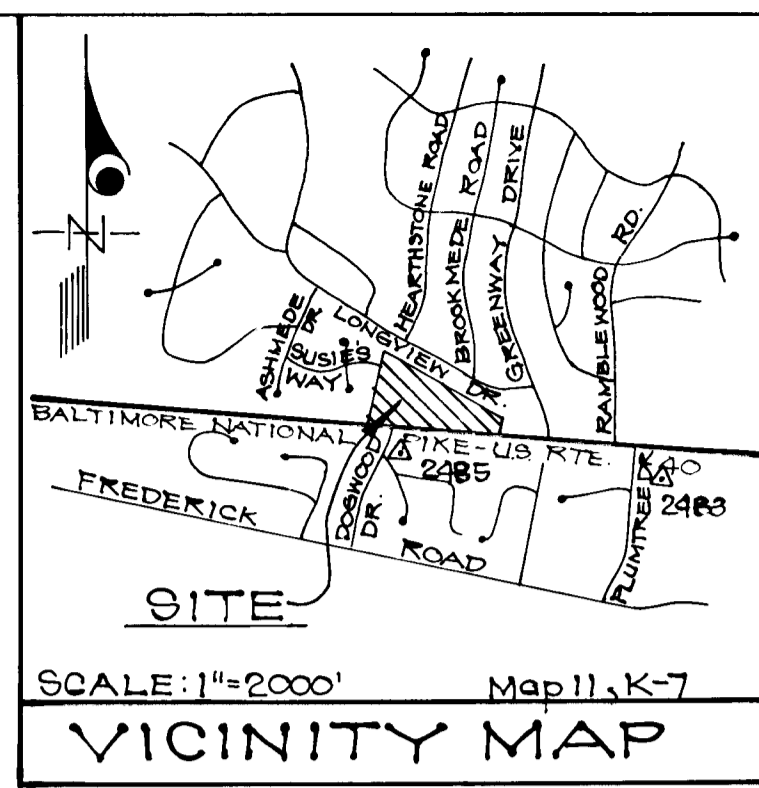


CUL-DE-SAC CURVE DATA

Nº	RADIUS	Δ	ARC	TAN	CHORD	BEARING
3	35'	47°40'21"	29.21'	15.92'	28.37'	S11°46'46"E
4	35'	67°38'43"	168.38'	0.00'	47.00'	N77°52'06"W
5	35'	47°40'21"	29.21'	15.92'	28.37'	N86°02'36"E

- GENERAL NOTES:**
- All construction shall be in accordance with the latest standards and specifications of Howard County plus MSHA standards and specifications, if applicable.
 - The contractor shall notify the Department of Public Works/Bureau of Engineering, Construction Inspection Division @ (410) 313-1870 at least five (5) working days prior to the start of work.
 - The contractor shall notify "Miss Utility" at 1-800-257-777 at least 48 hours prior to any excavation work.
 - Project Background:
 Zoning: R-ED
 Total Tract Area: 11.9 ac.
 Number of Proposed lots 21 (19 Buildable)
 Design Speed: 25 MPH Susies Way
 Date Preliminary Plan approved and DPZ Reference file#: 10-19-95, P-96-05
 Topography was field run by Clark, Finebrock & Sackett, Inc. on 7/16/95.
 Public water and sewer is to be utilized.
 Contract# 24-3406-0 Patuxent
 All utilities shown were compiled from available records and field survey.
 Street trees in accordance with Subdivision and Land Development Regulations, Section 16.124 on the Road Construction Plans.
 Floodplain taken from Howard County study for Plumtree Branch.
 Wetlands shown per report by Exploration Research, Inc. Sag and Crest Vertical Curves were designed in accordance with Howard County Design Manual Vol. III.
 Trench compaction for storm drains within the road or street rights of way limits shall be in accordance with Howard County Design Manual Vol. IV, Std. No. 6-2.01.
 Proposed Stormwater Management
 a. Quantity Control: 2 & 10 Year Detention
 b. Quality Control: Sediment Forebay & Wet Pond
 c. Hazard Class: A
 d. Ownership: Homeowners Association
 e. Maintenance: Structural by Homeowners Association, Landscape by Homeowners Association.
 - See previous county files S-95-02, WP-95-09, P-96-05
 - WP-95-09 waives Section 16.116(a) which requires a 50' streambank buffer from an intermittent stream.
 - Noise study prepared by Wildman Environmental Services, Inc.
 - Geotechnical report by Hillis Carnes, Inc. on 7/95.
 - Coordinates based on NAD 83, MD Coordinate System as projected by Howard County Geodetic Control Stations 2483 Elev. 384.60 and 2485 Elev. 390.27.
 - Boundary survey by Clark, Finebrock & Sackett, Inc. on 7/5/95.
 - Waiver for 175' radius approved by Howard County D.P.W. on 11/4/94.
 - Forest Stand Delineation was prepared by Wildman Environmental Services.
 - Plan subject to MDE Waterway Construction Permit N° 05-NF-1155, Tracking N° 13020356



APPROVED: HOWARD COUNTY DEPT. OF PUBLIC WORKS
 [Signature] 1-23-96
 CHIEF, BUREAU OF HIGHWAYS

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 [Signature] 1/30/96
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED:
 [Signature] 1/25/96
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

CLARK • FINEBROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 1715 MINISTREE WAY • COLUMBIA, MD 21046 • (410) 381-7300 • BAL TO • (410) 601-8800 • WASH

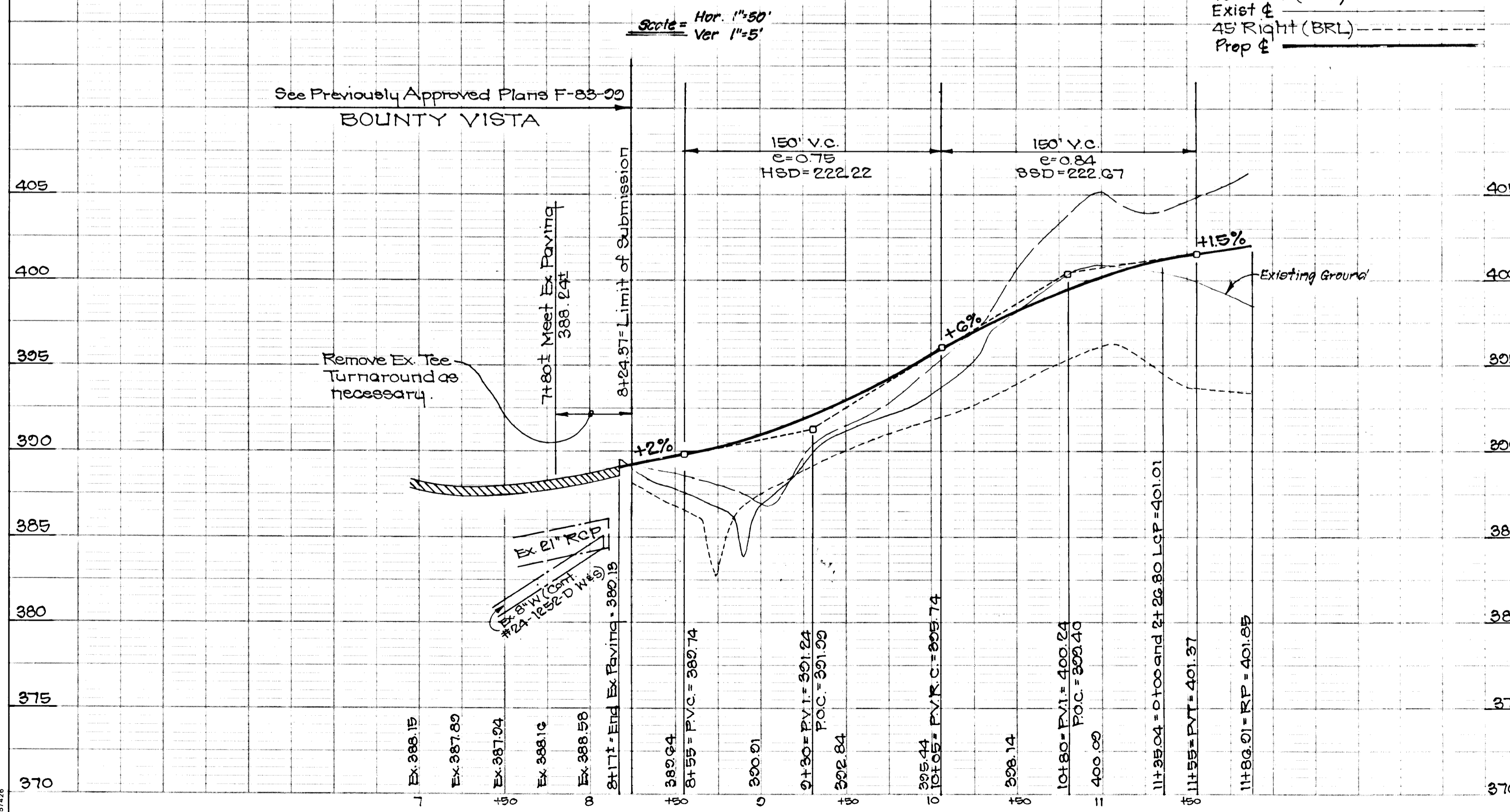
DESIGNED: JLS, ZAL. **SCALE:** 1"=50'
DRAWN: [Signature] **DRAWING:** 1 of 10
CHECKED: [Signature] **JOB NO:** 05-112
DATE: 12-27-95 **FILE NO:** 05-112.D

GRADE ESTABLISHMENT, STORM DRAINAGE & PAVING PLAN, SUSIE'S WAY, BRICKHOUSE ON THE PIKE
 TAX MAP 24, PARCEL 810
 SECOND (2ND) ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 FOR: BRICKHOUSE ON THE PIKE, LLC - % LANDSOURCE DEV. CORP.
 10480 LITTLE PATUXENT PKWY, SUITE 500
 COLUMBIA, MARYLAND 21044
 ATTN: GRESTON L. GATHCART PHONE (410) 740-5674

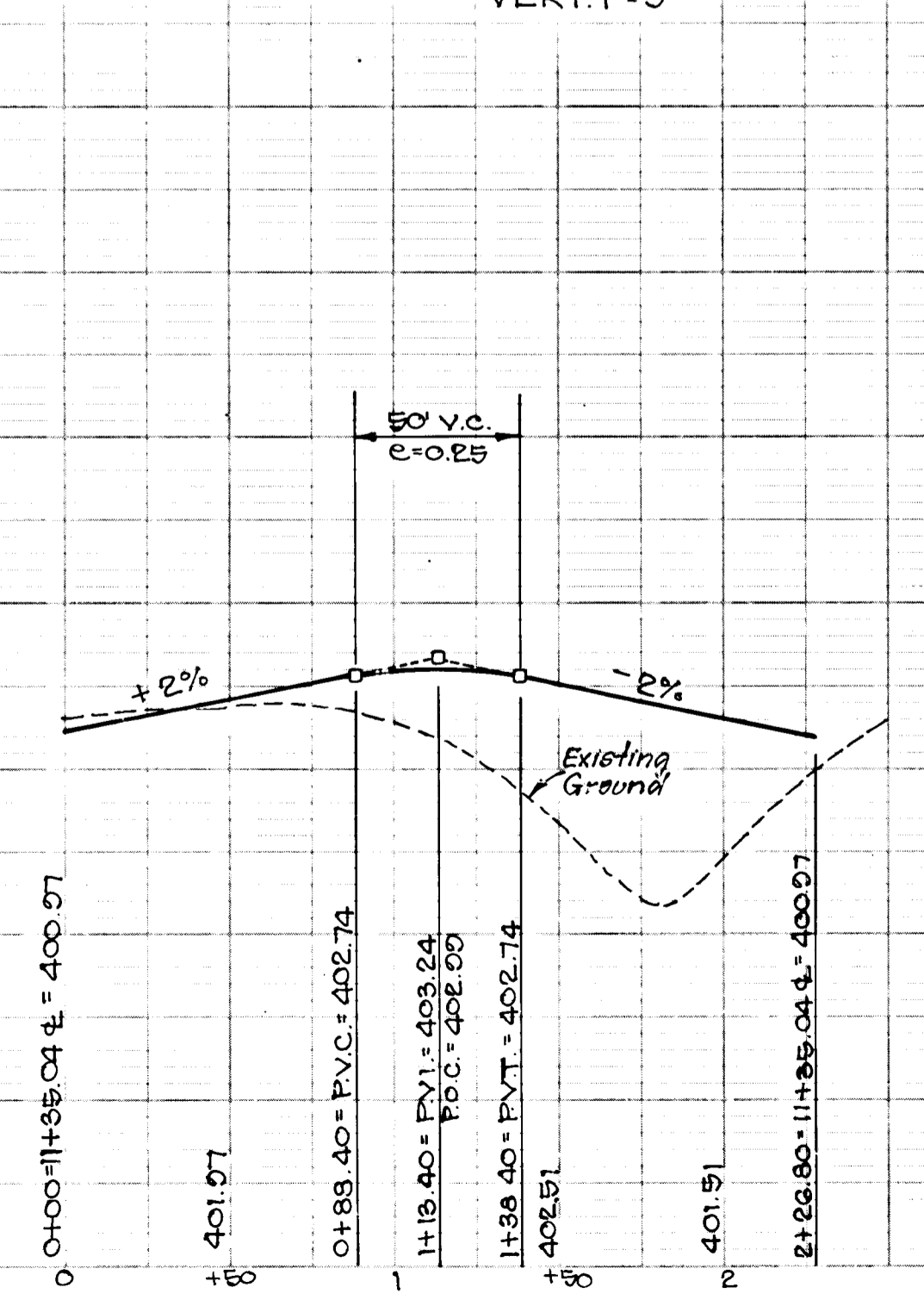
REVISIONS

Nº	Describe	Date
1	Revise Storm Drainage M-3	6-18-96

PROFILE - SUSIE'S WAY
 DESIGN SPEED = 25 M.P.H.
 Scale = Hor. 1"=50'
 Ver. 1"=5'



LINEAR CURB PROFILE
 SCALE: HOR. 1"=50'
 VERT. 1"=5'



SHEET INDEX

SHEET	DESCRIPTION
1	Grade Establishment Plan
2	Grading & Drainage Area Map
3	Storm Drain Profiles
4	Storm Drain & S.W.M. Profiles & Paving Details
5	Sediment Erosion Control Plan
6	Sediment Erosion Control Details
7	Sediment Erosion Control & Storm Drain Details
8	Forest Conservation Plan
9	Forest Conservation Details
10	Street Trees & Landscape Buffer Plan

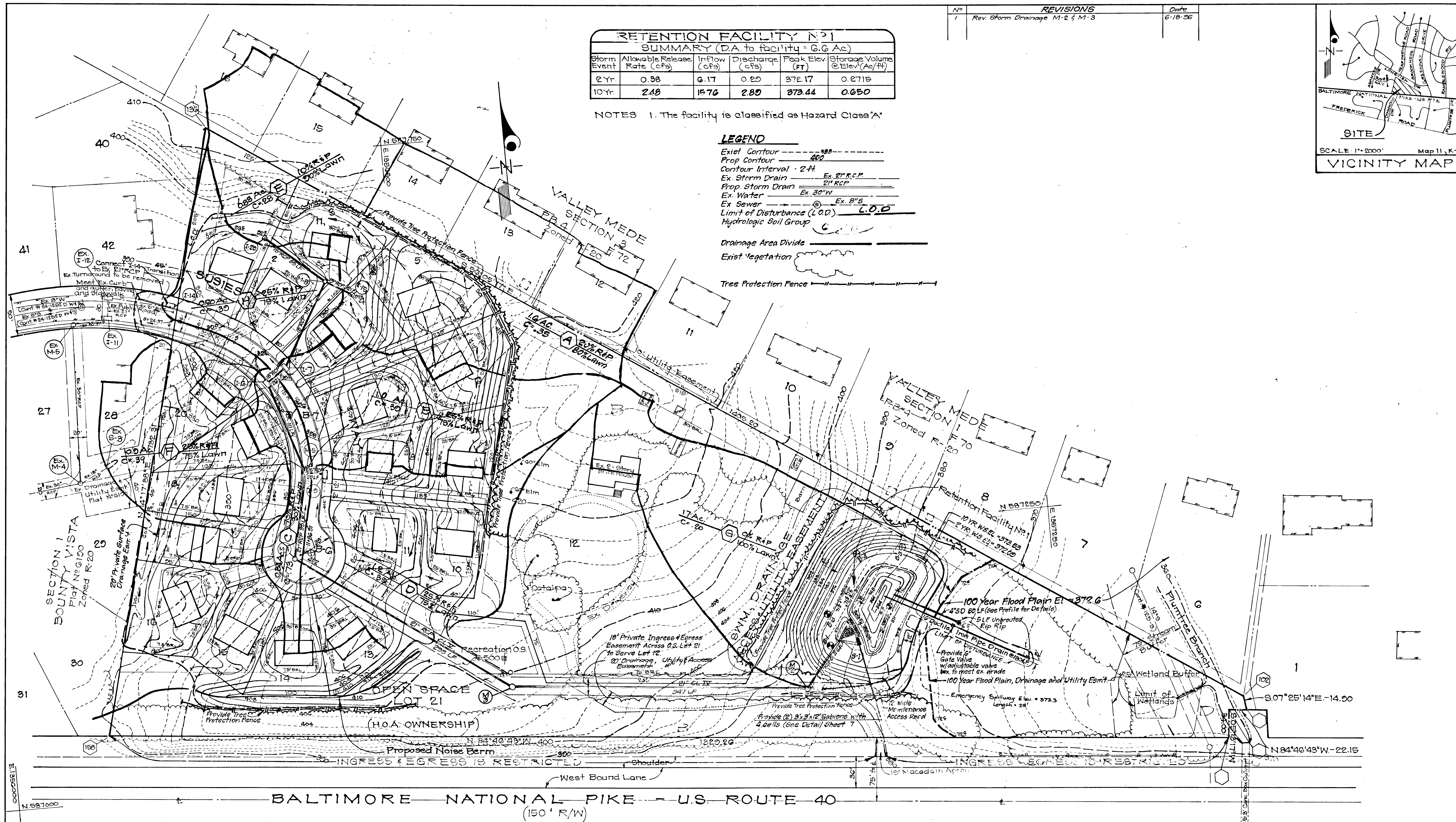
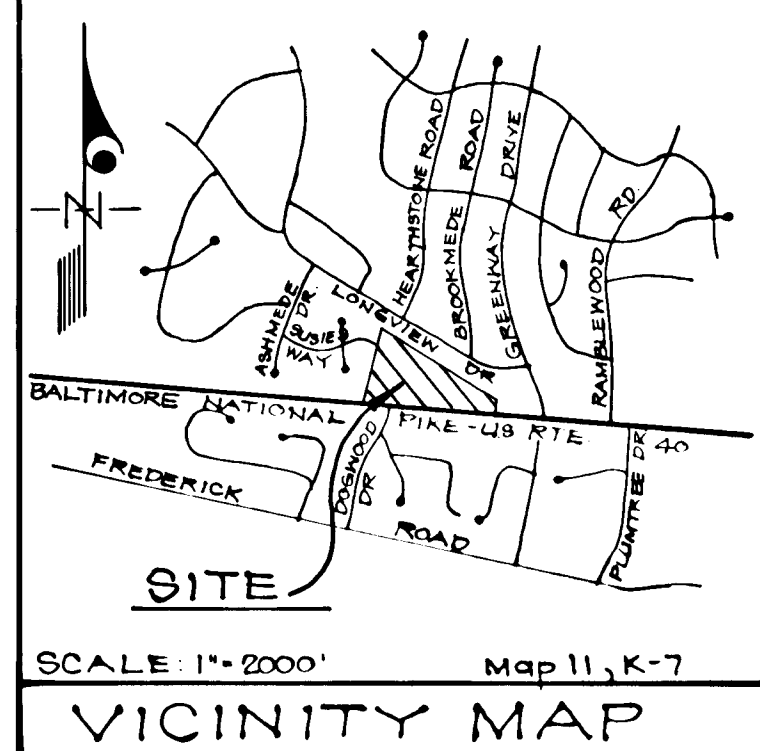
1779

No	REVISIONS	Date
1	Rev. Storm Drainage M-2 & M-3	6-18-96

RETENTION FACILITY No. 1					
SUMMARY (D.A. to facility = 6.6 Ac)					
Storm Event	Allowable Release Rate (cfs)	Inflow (cfs)	Discharge (cfs)	Peak Elev. (FT)	Storage Volume @ Elev. (Ac/Ft)
2 Yr.	0.38	6.17	0.20	372.17	0.2715
10 Yr.	2.48	15.76	2.80	373.44	0.650

NOTES 1. The facility is classified as Hazard Class 'A'

- LEGEND**
- Exist Contour - ---
 - Prop Contour - - - - -
 - Contour Interval - 2 Ft.
 - Ex. Storm Drain - Ex. 2" R.C.P.
 - Prop. Storm Drain - 2" R.C.P.
 - Ex. Water - Ex. 30" W
 - Ex. Sewer - Ex. 8" S
 - Limit of Disturbance (L.O.D.) - L.O.D.
 - Hydrologic Soil Group - C
 - Drainage Area Divide - ———
 - Exist. Vegetation - [Symbol]
 - Tree Protection Fence - [Symbol]



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Richard M. Daniels 1/23/96
 CHIEF, BUREAU OF HIGHWAYS H3 DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
Anna Swannery 1/30/96
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

John J. [Signature] 1/25/96
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

These plans have been reviewed for the Howard Soil Conservation District and meet technical requirements for small pond construction, soil erosion and sediment control.
Patricia [Signature] 1/2/96
 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.
Robert W. Zichner 1/2/96
 Approved: Howard S.C.D. DATE

By The Developer:
 "I certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an 'as-built' plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."
[Signature] 12/13/95
 Signature of Developer DATE

By the Engineer:
 "I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an 'as-built' plan of the pond within 30 days of completion."
Jeffrey Lynn Schickel 12/13/95
 Signature DATE

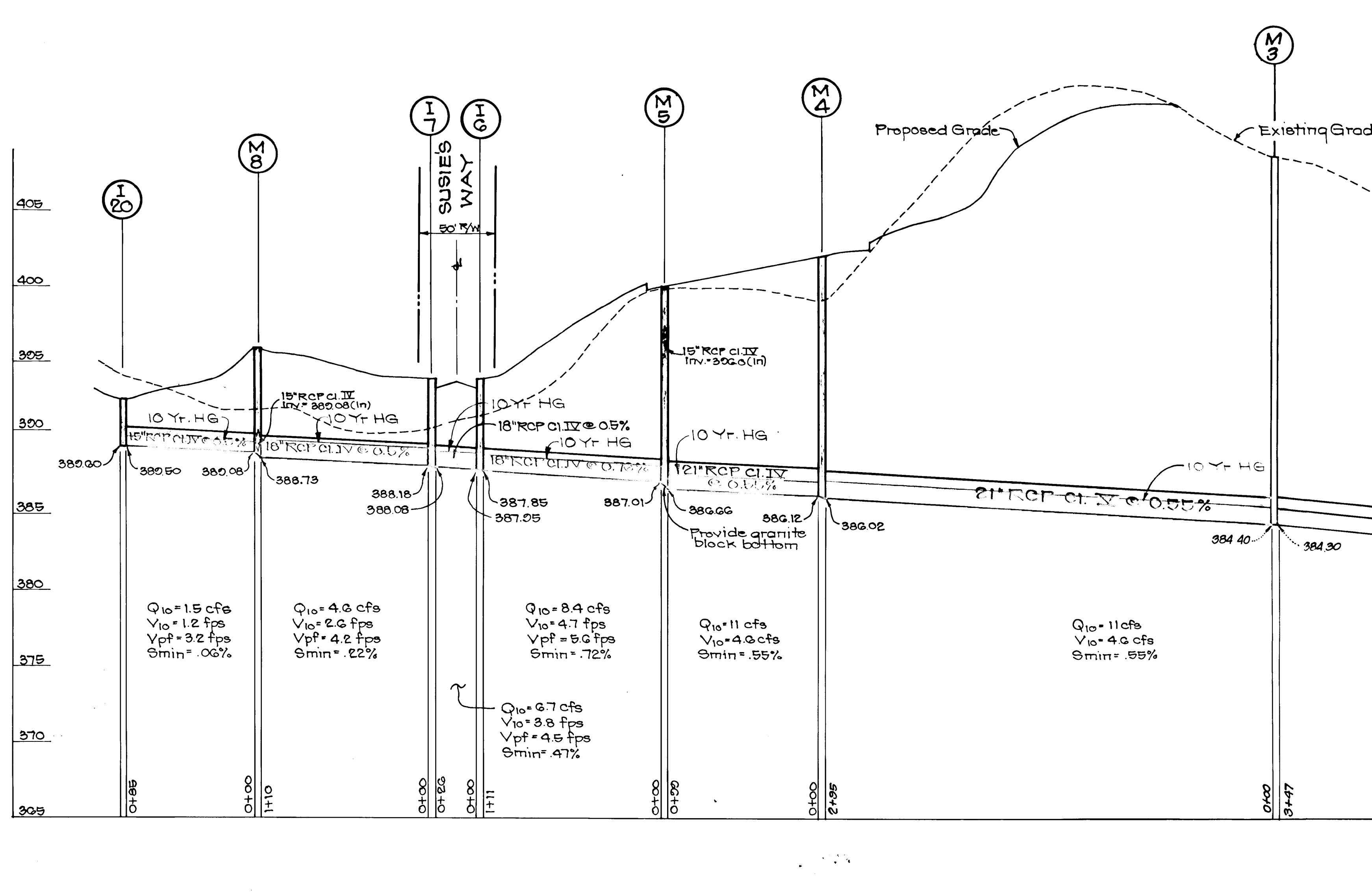
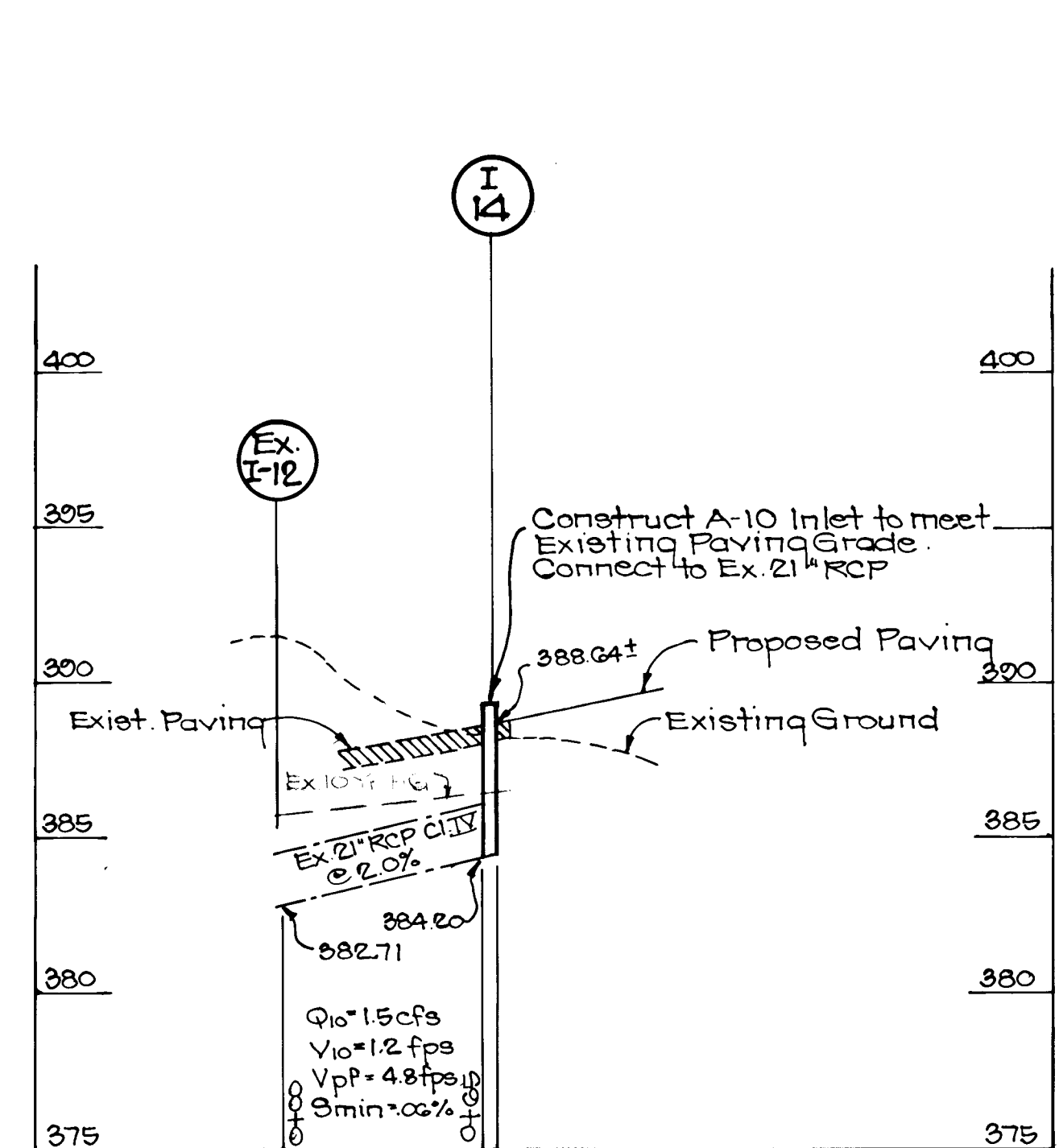
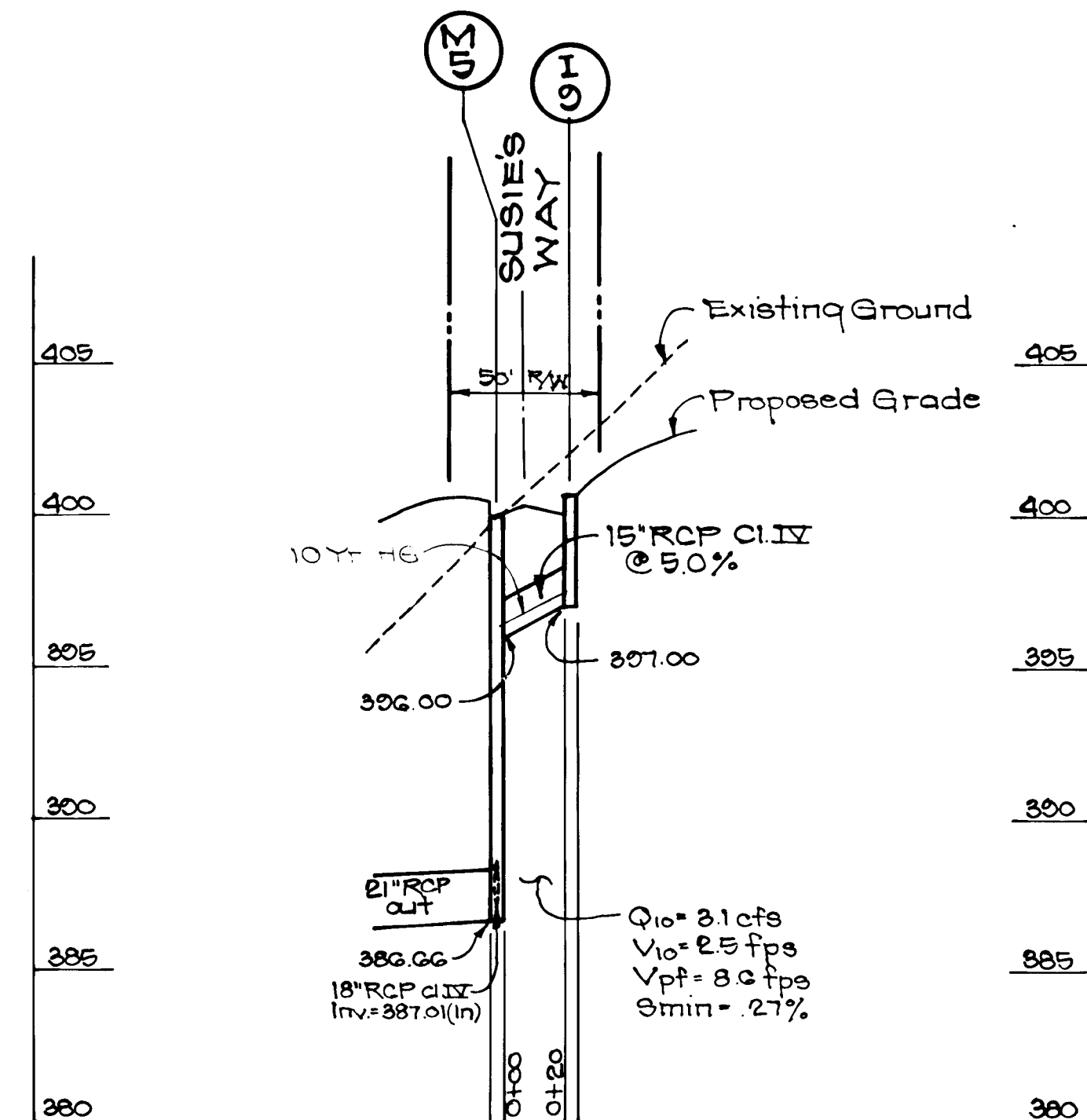
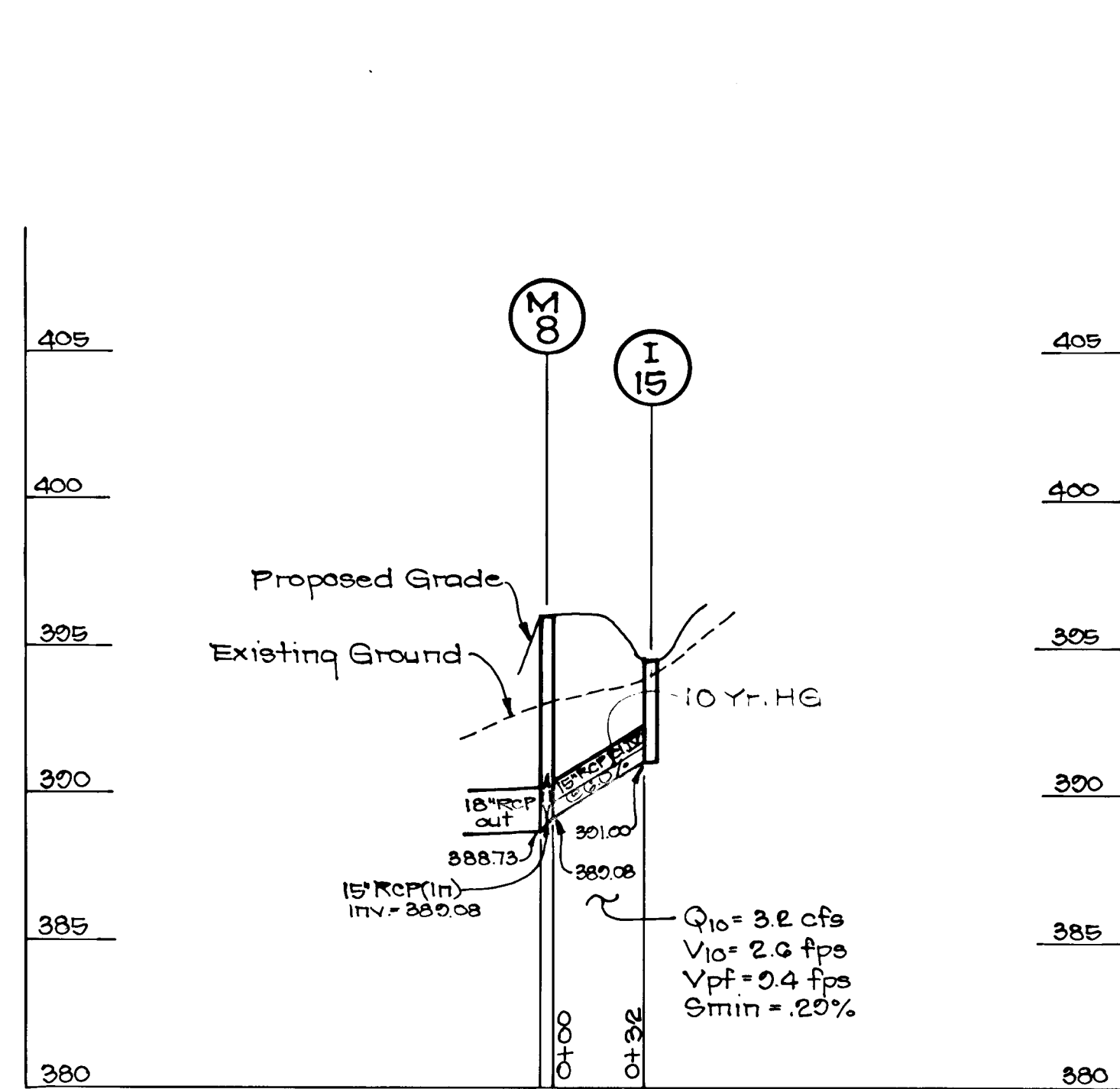


CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA, MD 21045 • (410) 381-7500 - BALTO • (301) 621-8100 - WASH.

DESIGNED Z.A.L.	GRADING AND DRAINAGE AREA MAP LOTS 1-20 AND OPEN SPACE LOT 21 BRICKHOUSE ON THE PIKE TAX MAP 24, PARCEL 810 SECOND (2ND) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1" = 50'
DRAWN [Signature]		DRAWING 2 of 10
CHECKED [Signature]		JOB NO. 05-112
DATE 12-27-95		FILE NO. 05-112D

FOR: BRICKHOUSE ON THE PIKE, LLC - % LANDSOURCE DEV CORP
 10480 LITTLE PATUXENT PKWY, SUITE 500
 COLUMBIA, MARYLAND 21044
 ATTN: CRESTON L. GATHCART PHONE: 410-740-5274

1779



Nº	TYPE	SIZE	INVERT		TOP ELEVATION		REMARKS	LOCATION
			IN	OUT	UPPER	LOWER		
I-20	Yard Inlet	2' Ø	389.00	389.50	392.5		Ho. Co. Std. SD 4.14	See Plan
I-15	Yard Inlet	2' Ø	391.10	391.00	394.5		Ho. Co. Std. SD 4.14	See Plan
M-8	Standard Precast Manhole	4' Ø	388.08	388.73	390.0		Ho. Co. Std. G 5.12	See Plan
I-7	A-10 Inlet		388.18	388.08	393.38	393.65	Ho. Co. Std. SD 4.41	Estn. 2'x12' 12' L x 6' H
I-6	A-10 Inlet		387.85	387.85	393.58	393.65	Ho. Co. Std. SD 4.41	Estn. 2'x12' 12' L x 6' H
M-5	Standard Precast Manhole	4' Ø	387.01	386.66	400.0		Ho. Co. Std. G 5.12	See Plan
I-9	A-10 Inlet		387.10	387.00	399.00	400.0	Ho. Co. Std. SD 4.41	Estn. 10'x12' 12' L x 6' H
M-4	Standard Precast Manhole	4' Ø	386.12	386.02	402.0		Ho. Co. Std. G 5.12	See Plan
M-3	Standard Precast Manhole	4' Ø	384.40	384.30	409.0		Ho. Co. Std. G 5.12	See Plan
M-2	Standard Precast Manhole	4' Ø	381.00	380.70	384.4		Ho. Co. Std. G 5.12	See Plan
M-1	Concrete End Section (21")		380.08	380.00			Ho. Co. Std. SD 5.51	See Plan
I-14	A-10 Inlet		384.81	384.80	384.8	384.8	Ho. Co. Std. SD 4.41	Estn. 8'x17' 12' L x 6' H

SIZE	TYPE	LENGTH
15"	RCP CL IV	137 L.F.
18"	RCP CL IV	247 L.F.
21"	RCP CL IV	411 L.F.
21"	RCP CL IV	295 L.F.
4"	PVC Schedule 40	60 L.F.
6"	D.I.P. CL. 52	190 L.F.

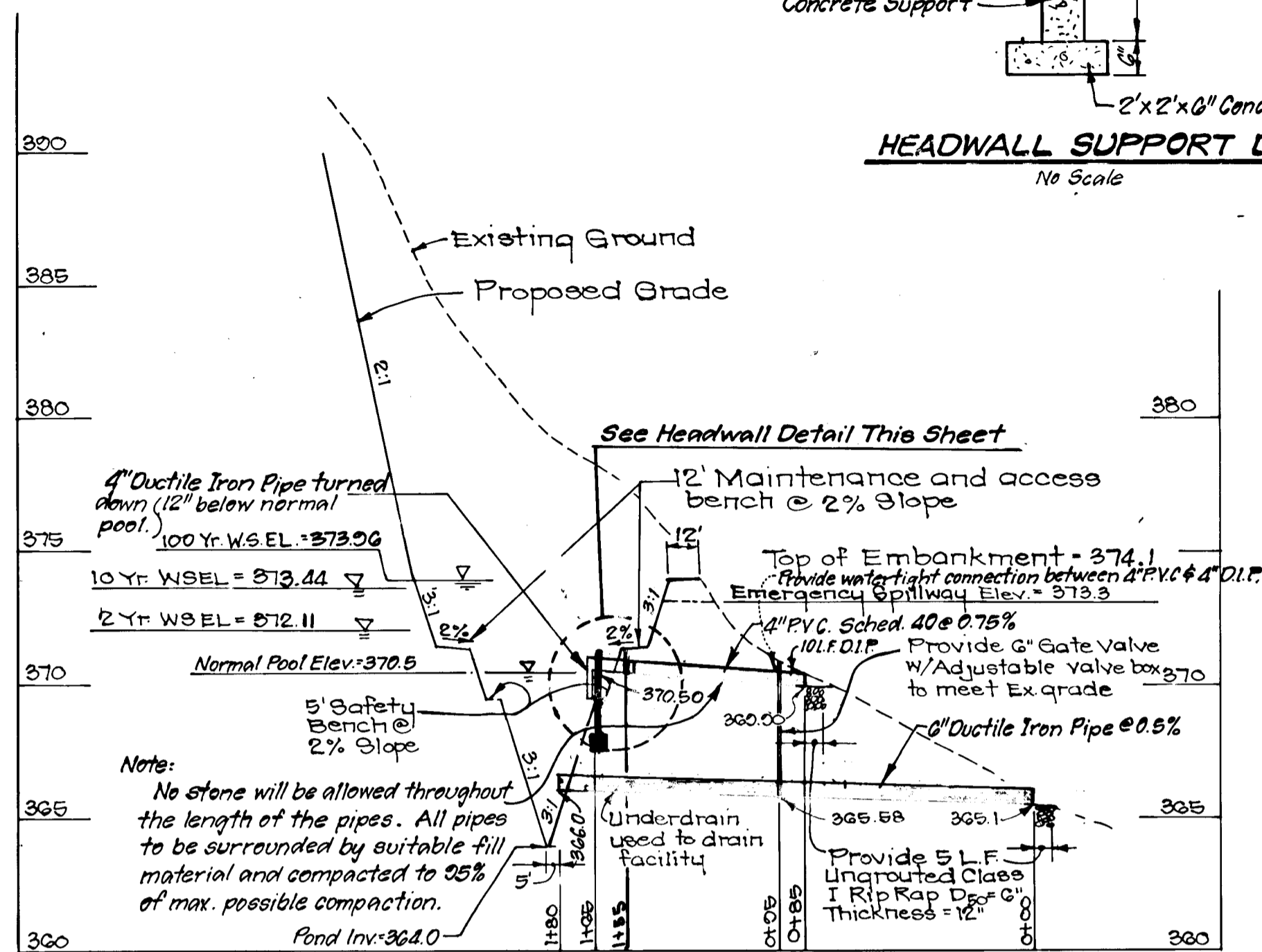
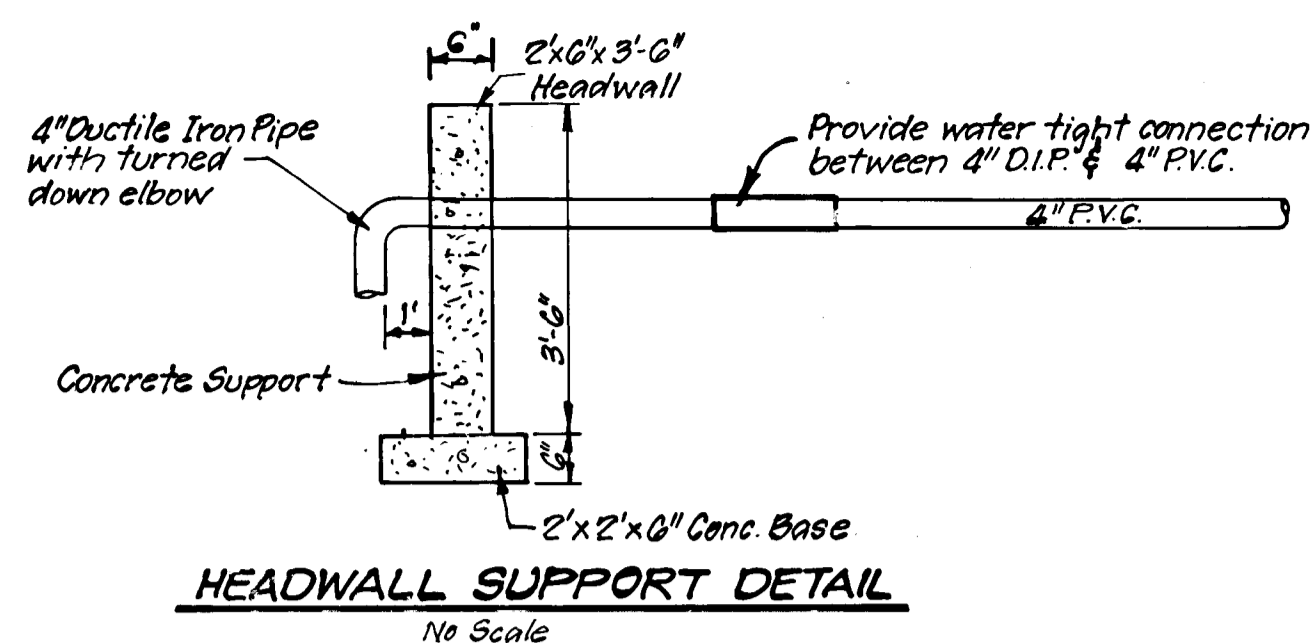
DEVELOPER'S/BUILDER'S CERTIFICATE
 I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for (1) 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.
 Signature: [Signature] DATE: 10/19/95

Reviewed for: HOWARD S.C.D.
 Signature: [Signature] DATE: 11/2/96
 U.S. Natural Resources Conservation Service
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature: [Signature] DATE: 12/9/96

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Signature: [Signature] DATE: 1-23-96
 CHIEF, BUREAU OF HIGHWAYS
 APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 Signature: [Signature] DATE: 1/30/96
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH
 Signature: [Signature] DATE: 1/25/96
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

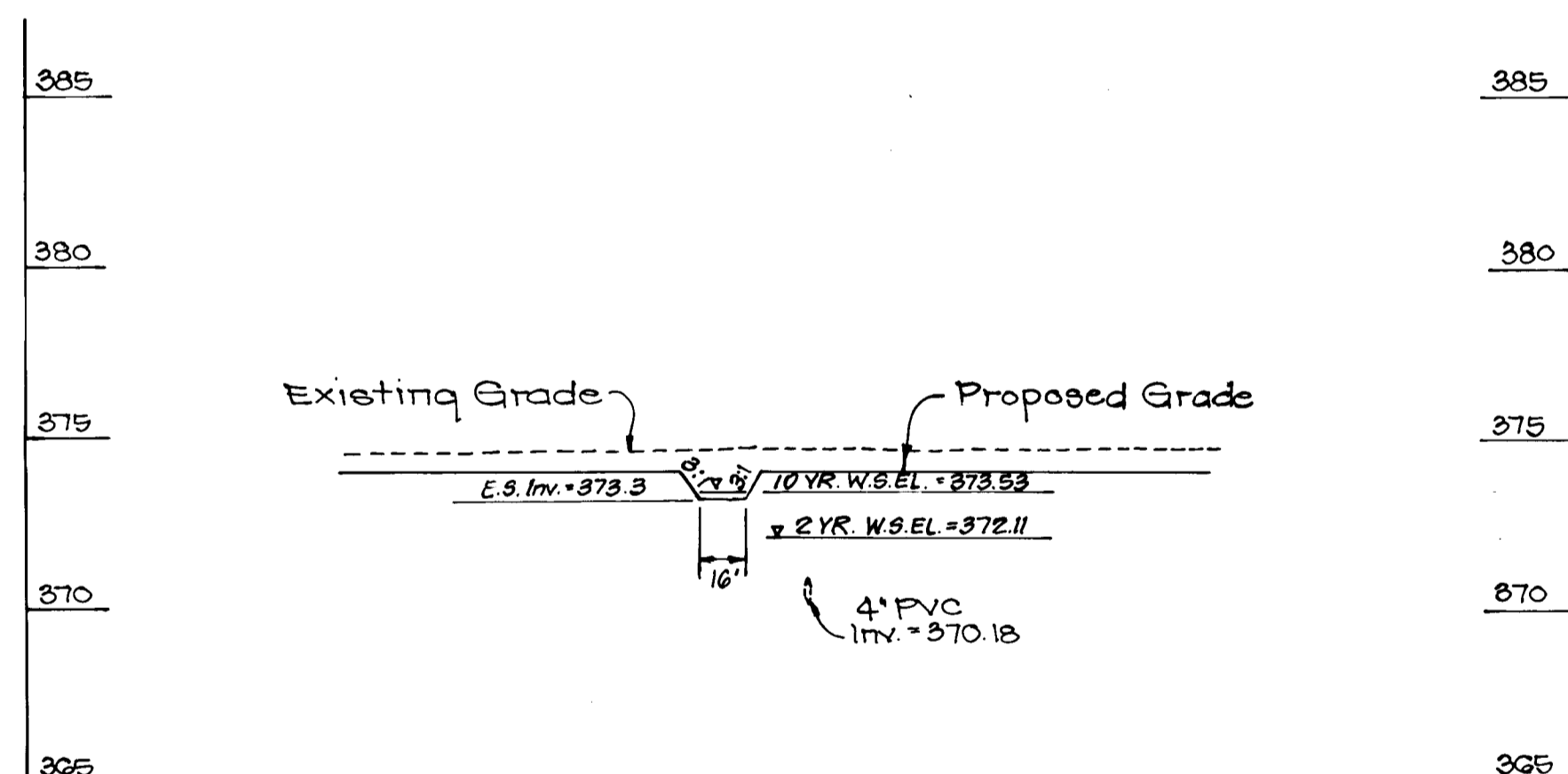
CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (410) 381-7500 - BALTO. • (301) 621-8100 - WASH.
 DESIGNED: JLS, ZAL
 DRAWN: [Signature]
 CHECKED: [Signature]
 DATE: 12-27-95
 STORM DRAIN PROFILES
BRICKHOUSE ON THE PIKE
 TAX MAP 24, PARCEL 810
 SECOND (2nd) ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 FOR: BRICKHOUSE ON THE PIKE, LLC - 6% LANDSOURCE DEV. CORP.
 10480 LITTLE PATRIDENT PARKWAY, SUITE 500
 COLUMBIA, MARYLAND 21044
 ATTN: CRESTON L. GATHCART PHONE: (410)-740-5874
 SCALE: AS SHOWN
 DRAWING: 3 of 10
 JOB NO: 05-112
 FILE NO: 05-112D

1779



PRINCIPLE SPILLWAY PROFILE

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



CROSS SECTION OF EMERGENCY SPILLWAY

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

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

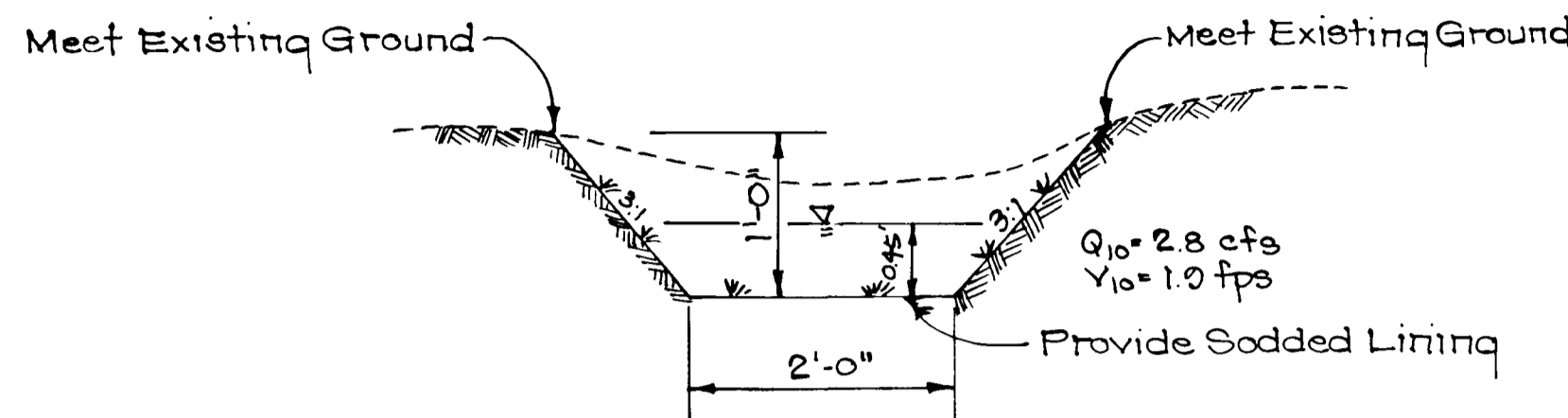
Peterson Eng 1/2/96
U.S. Soil Conservation District

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

Approved: *Robert W. Ziehm* 1/2/96
Howard S.C.D. Date

APPROVED: DEPARTMENT OF PUBLIC WORKS
Richard M. Daniels 1/23/96
Chief, Bureau of Highways Date

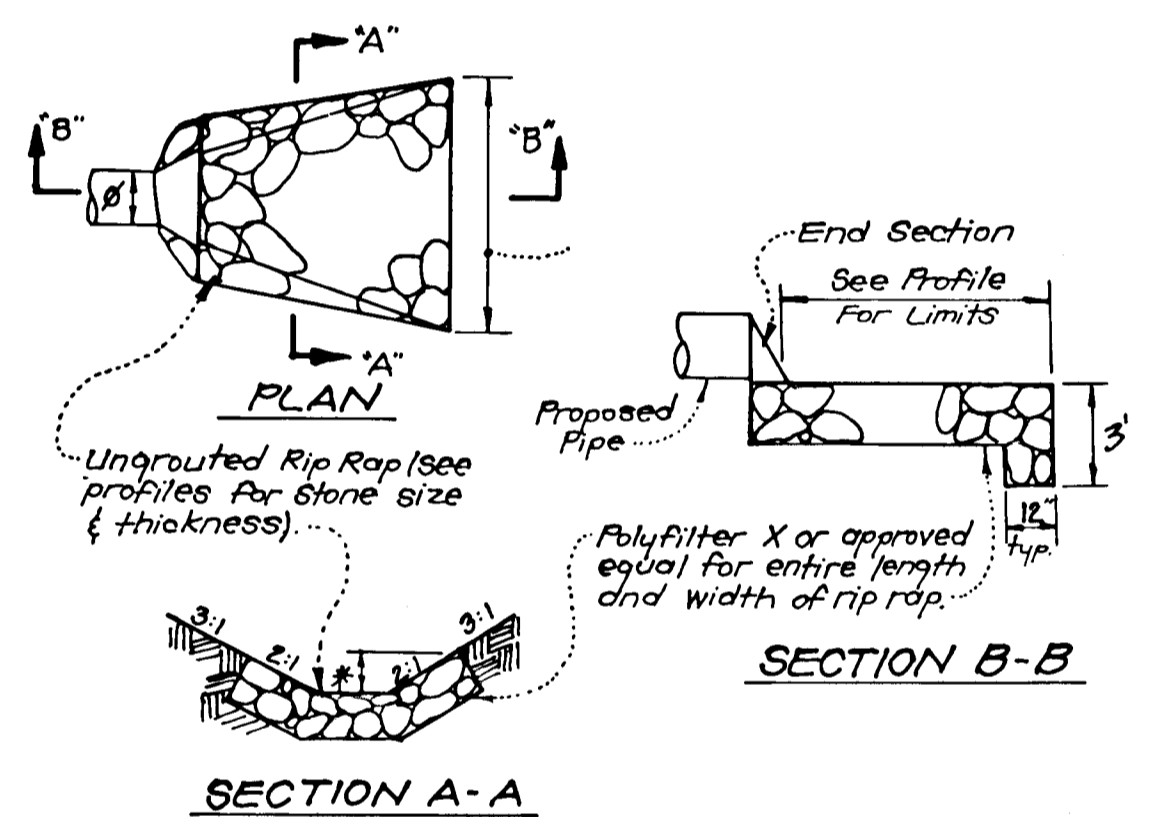
APPROVED: DEPARTMENT OF PLANNING AND ZONING
Gina Summary 1/20/96
Chief, Division of Land Development and Research, Date
Alvin Dammer 1/25/96
Chief, Development Engineering Division Date



SODDED SWALE IN REAR OF LOTS 16, 17 & 18

NO SCALE

RIP RAP SCHEDULE				
STRUCTURE NO.	SHA CLASS	DOWNSTREAM WIDTH	THICKNESS (IN)	LENGTH (FT)
S-1	I	6	10"	28
4" PVC outlet	I	5	14"	5
4" DIP outlet	I	5	14"	5



LINGROUTED RIP RAP PAVING DETAILS

NO SCALE

By The Developer:

"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an 'as-built' plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."

[Signature] 12/13/95
Signature of Developer Date

By the Engineer:

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an 'as-built' plan of the pond within 30 days of completion."

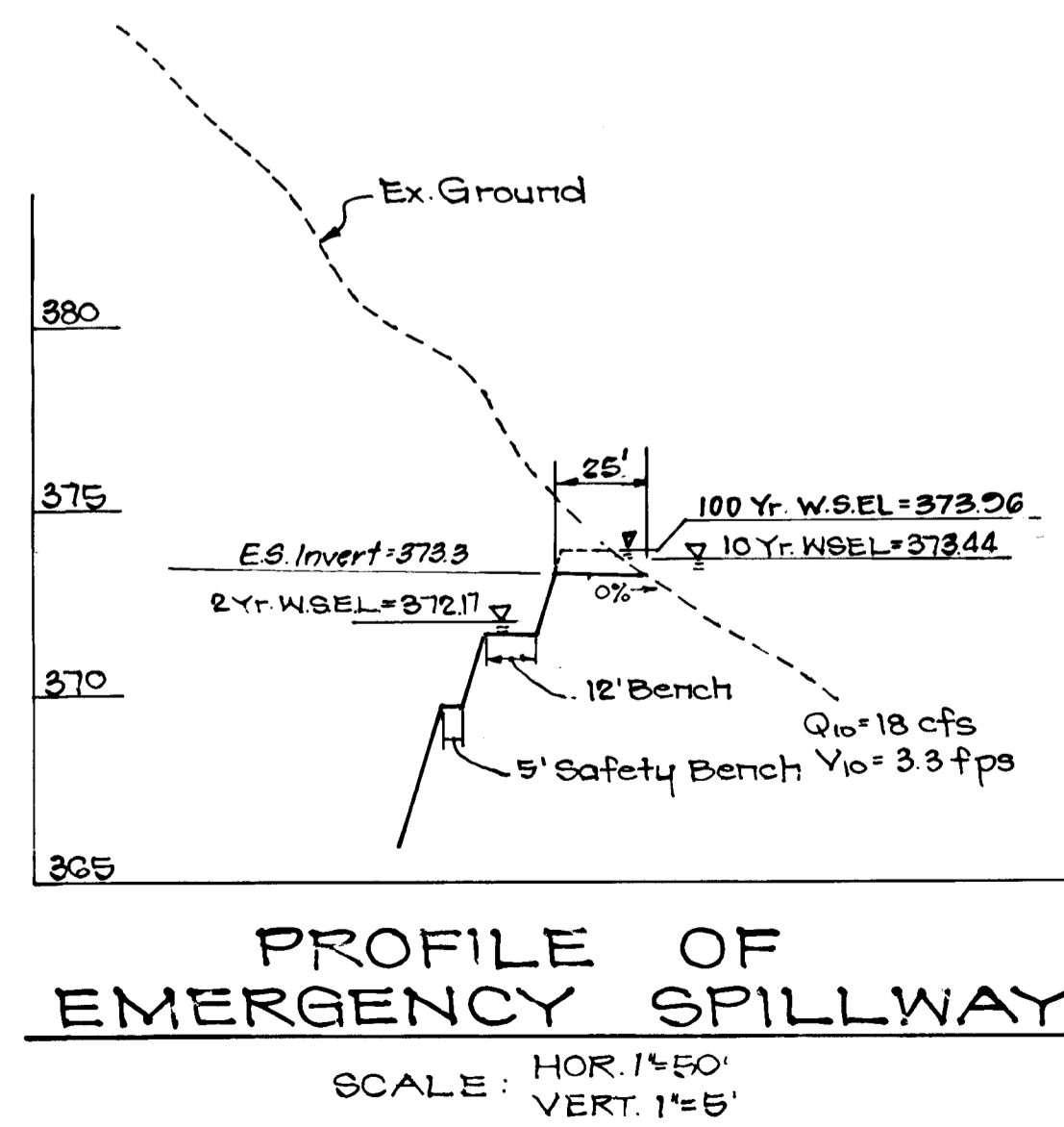
[Signature] 12/13/95
Jeff John Schrab Date

HOME OWNERS ASSOCIATION
MAINTENANCE SCHEDULE FOR SWM FACILITY #1

- Forebays to be inspected after each major storm or every month. Trash to be removed as necessary.
- Facility to be inspected once a month and excessive growth cut or mowed as required (No growth above 18" over normal pool allowed) during growing season.
- Pond slopes and benches to be mowed once every month during growing season.
- Trash to be removed after each major storm or every month.
- An annual inspection of the pond is to be done.
- Remove sediment from forebay areas when depth exceeds 4".
- Corrective maintenance is to be done as needed if the ponds are found to be unfunctional (i.e. water quality facilities don't drain back to the marsh pool elevation within 60 hours).

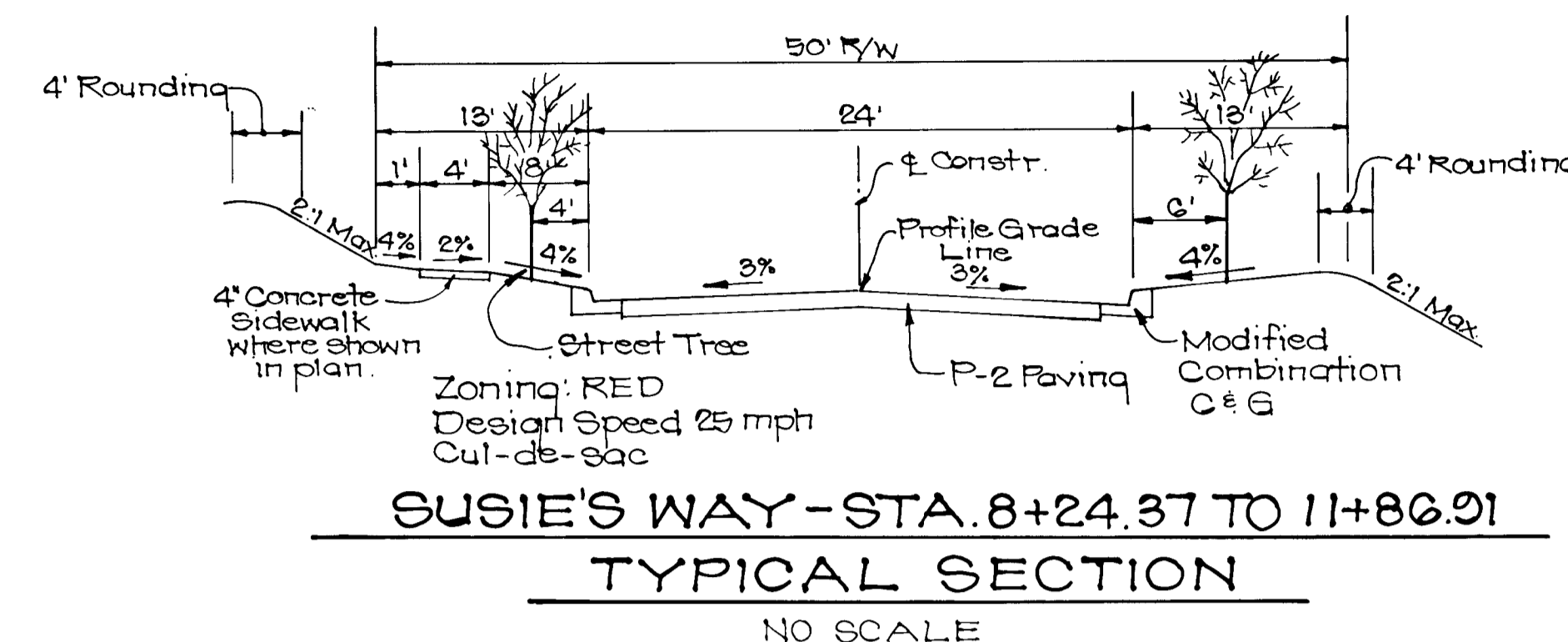
OPERATION, MAINTENANCE & INSPECTION

Inspection of the pond(s) shown hereon shall be performed at least annually, in accordance with the checklist and requirements contained within USDA, SCS "Standards and Specifications For Ponds" (MD-378). The pond owner(s) and any heirs, successors or assigns shall be responsible for the safety of the pond and the continued operation, surveillance, inspection, and maintenance thereof. The pond owner(s) shall promptly notify the Soil Conservation District of any unusual observations that may be indications of distress such as excessive seepage, turbid seepage, sliding or slumping.



PROFILE OF EMERGENCY SPILLWAY

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



SUSIE'S WAY - STA. 8+24.37 TO 11+86.91

TYPICAL SECTION

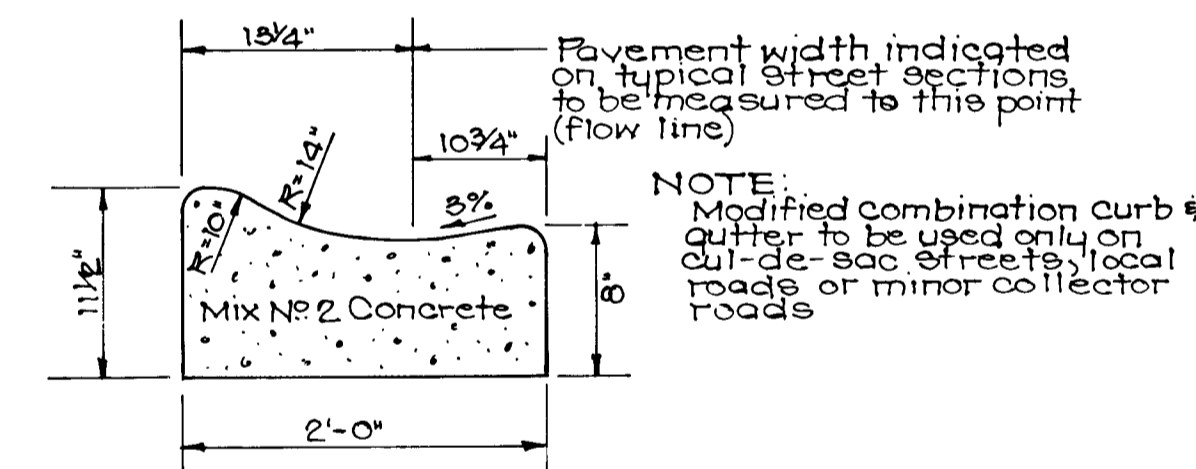
NO SCALE

Bituminous Conc. Surface	1 1/2"
Bituminous Conc. Base	2"
Prime	3"
8" Crusher Run Base Course (2 Courses) or 6" Dense Graded Stabilized Aggregate Base Course	6"

SECTION P-2

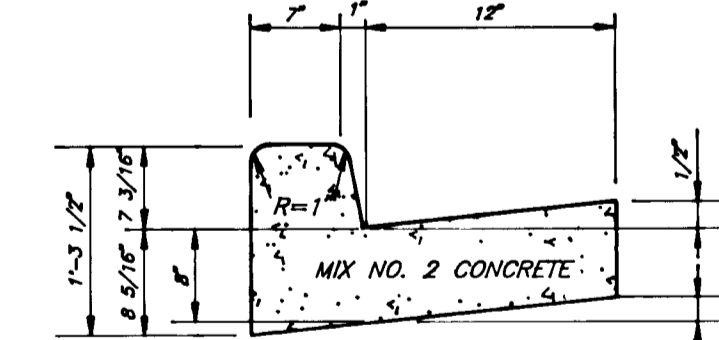
TYPICAL PAVING SECTION

NO SCALE



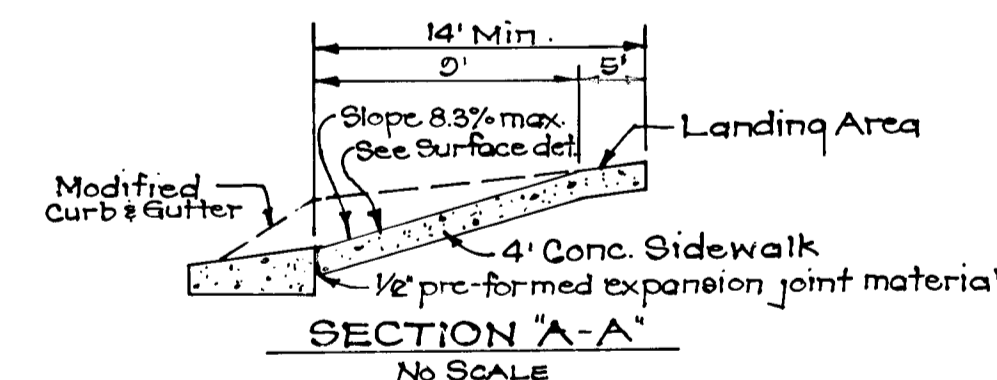
MODIFIED COMBINATION CURB AND GUTTER

NO SCALE



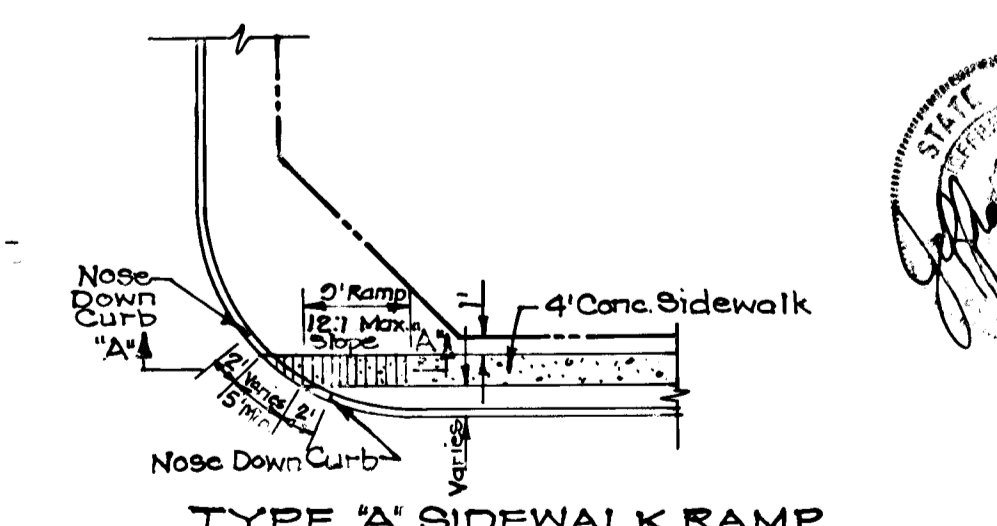
STANDARD COMBINATION CURB AND GUTTER

NO SCALE



SECTION A-A

NO SCALE



TYPE A SIDEWALK RAMP

NO SCALE

CONCRETE RAMP DETAIL

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA, MD 21045 • (410) 381-7500 • BALTO • (301) 621-8100 • WASH.

DESIGNED ZAL JLS	STORM DRAIN, STORMWATER MANAGEMENT & PAVING DETAILS	SCALE -
DRAWN JLS	BRICKHOUSE ON THE PIKE TAX MAP 24, PARCEL 810 SECOND (2ND) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	DRAWING 4 of 10
CHECKED JLS		JOB NO. 05-112
DATE 12-27-95	FOR BRICKHOUSE ON THE PIKE, LLC - 96 LANDBOURNE DEV. CORP. 10485 LITTLE PATUXENT PKWY, SUITE 500 COLUMBIA, MARYLAND 21044 ATTN: CRESTON L. CATHCART PHONE (410) 740-5074	FILE NO. 05-112 D

SEDIMENT TRAP N°1 (ST-I)

Drainage Area to Trap = 3.0 ac
 Wet Storage Req'd. = 7020 cf
 Wet Storage Provided = 7056 cf
 Wet Storage Depth = 4'
 Dry Storage Req'd. = 7020 cf
 Dry Storage Provided = 8200 cf
 Dry Storage Depth = 2.5'
 Clean Out El. = 384.0
 Storage Depth Below River Crest = 0.5'
 Barrel Diam. = 24"
 River Diam. = 24"
 Trash Rack Diam. = 36"
 Top of Embankment = 390.0
 Bottom Elev. = 382.0
 Top of Wet Storage El. = 386.0
 Top of Dry Storage = 388.5
 Bottom Dimension = 10' - 00"
 40

0.6 ac (H) 25% R&P
 C = .30 (H) 75% LAWN

Provide Safety Fence Around Trap
 Provide 25' Baffle Board as shown (See Detail)
 Barrel Inv 384.0

Connect Temporary C.M.P. Barrel to I-14 at Inv. 384.20

SUSIE'S WAY

20' Temp. Curb Opening
 Provide Safety Fence around Trap
 Provide 75' Baffle Board as shown (See Detail)

0.6 ac (F) 25% R&P
 C = .30 (F) 75% LAWN

SEDIMENT TRAP N°2 (ST-II)

Drainage Area = 3.3 ac
 Storage Required = 11880 cf
 Wet Storage Required = 5040 cf
 Wet Storage Provided = 5085 cf
 Wet Storage Depth = 3'
 Bottom Elev. = 380.0
 Bottom Dim = 15' x 80'
 Dry Storage Req'd. = 5040 cf
 Dry Storage Provided = 6510 cf
 Dry Storage Depth = 2'
 Top Wet Storage Elev. = 383.0
 Top Dry Storage Elev. = 385.0
 Top of Embankment = 386.0
 Top of Stone Crest El. = 385.0
 Wier Width = 13'
 Total Storage Provided = 12495 cf.

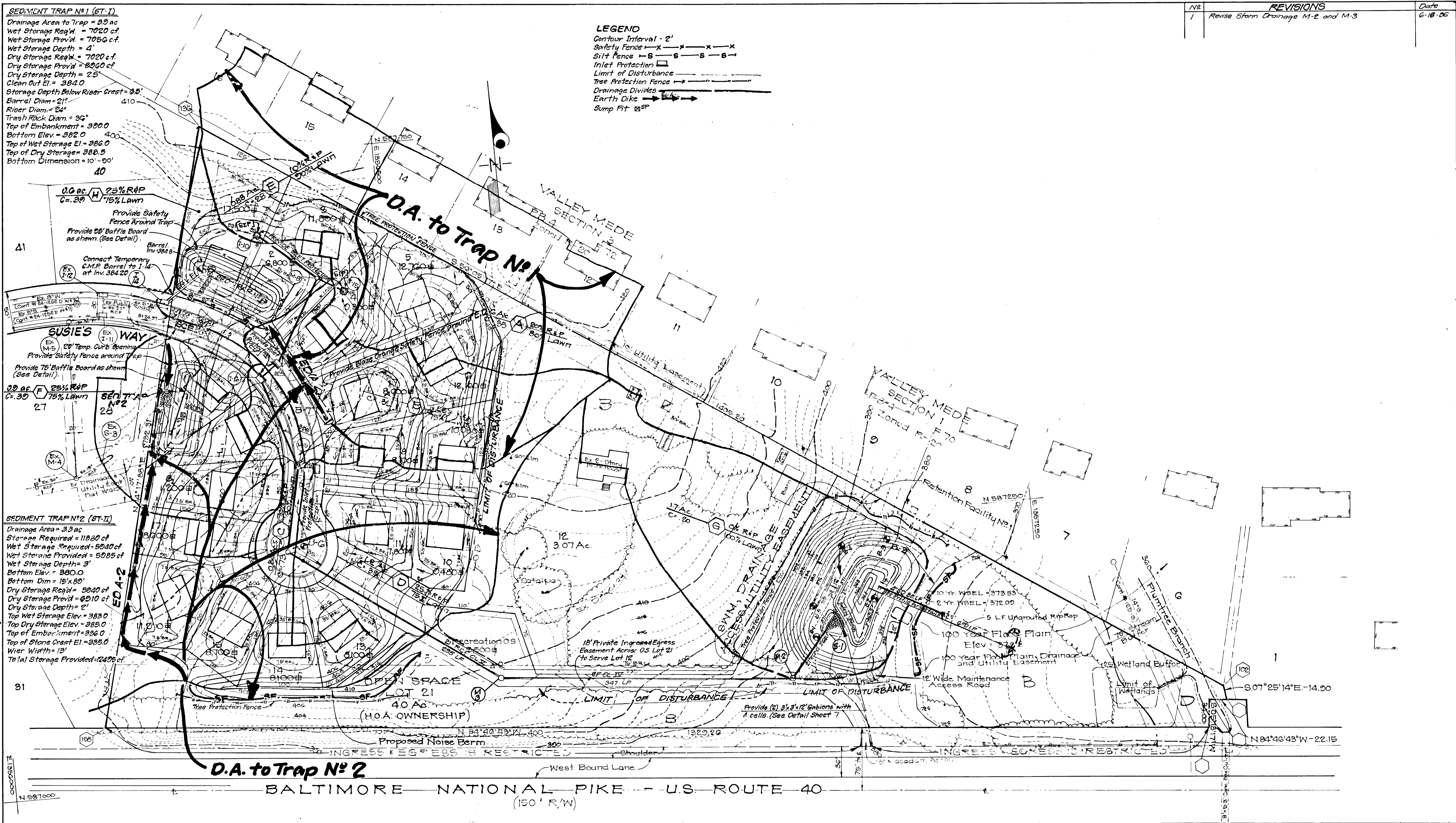
D.A. to Trap N°2

40 Ac (H.O.A. OWNERSHIP)

LEGEND

- Contour Interval - 2'
- Safety Fence - X-X-X-X
- Silt Fence - S-S-S-S
- Inlet Protection - [Symbol]
- Limit of Disturbance - [Symbol]
- Tree Protection Fence - [Symbol]
- Drainage Divides - [Symbol]
- Earth Dike - [Symbol]
- Sump Pit - [Symbol]

REVISE	REVISIONS	Date
1	Revise Storm Drainage M-2 and M-3	6-18-96



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 1-23-96
 CHIEF, BUREAU OF HIGHWAYS

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 [Signature] 1/30/96
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

[Signature] 1/25/96
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

Reviewed for HOWARD COUNTY S.C.D.
 and meets Technical Requirements
 [Signature] 1/23/96
 U.S. Natural Resources Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 [Signature] 1/23/96

DEVELOPER'S/BUILDER'S CERTIFICATE
 I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment 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.
 [Signature] 10/19/95

ENGINEER'S CERTIFICATE
 I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
 [Signature] 10/17/95
 JEFFREY JOCHNAB

CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA MD 21045 • (410) 381-7500 BALTO • (301) 621-8100 WASH

DESIGNED: ZAL
 DRAWN: ZAH
 CHECKED: JAS
 DATE: 12-27-95

SCALE: 1"=50'
 DRAWING: 5 of 10
 JOB NO: 95-112
 FILE NO: 95-112-D

SEDIMENT EROSION CONTROL PLAN
BRICKHOUSE ON THE PIKE
 TAX MAP 24, PARCEL 810
 SECOND (2nd) ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FOR: BRICKHOUSE ON THE PIKE, LLC - 2/6 LANSBOROUGH DEV. CORP.
 10480 LITTLE PATUXENT PARKWAY, SUITE 500
 COLUMBIA, MARYLAND 21044
 ATTN: CRESTON L. CATHCART PHONE: (410)-740-5874

1779

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

SOIL AMENDMENTS: In lieu of soil test recommendations, use one of the following schedules:

- 1) Preferred—Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.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 the time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs./1000 sq.ft.)
- 2) Acceptable—Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and apply 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 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 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 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 reseeding.

TEMPORARY SEEDING NOTES

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 1 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 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.

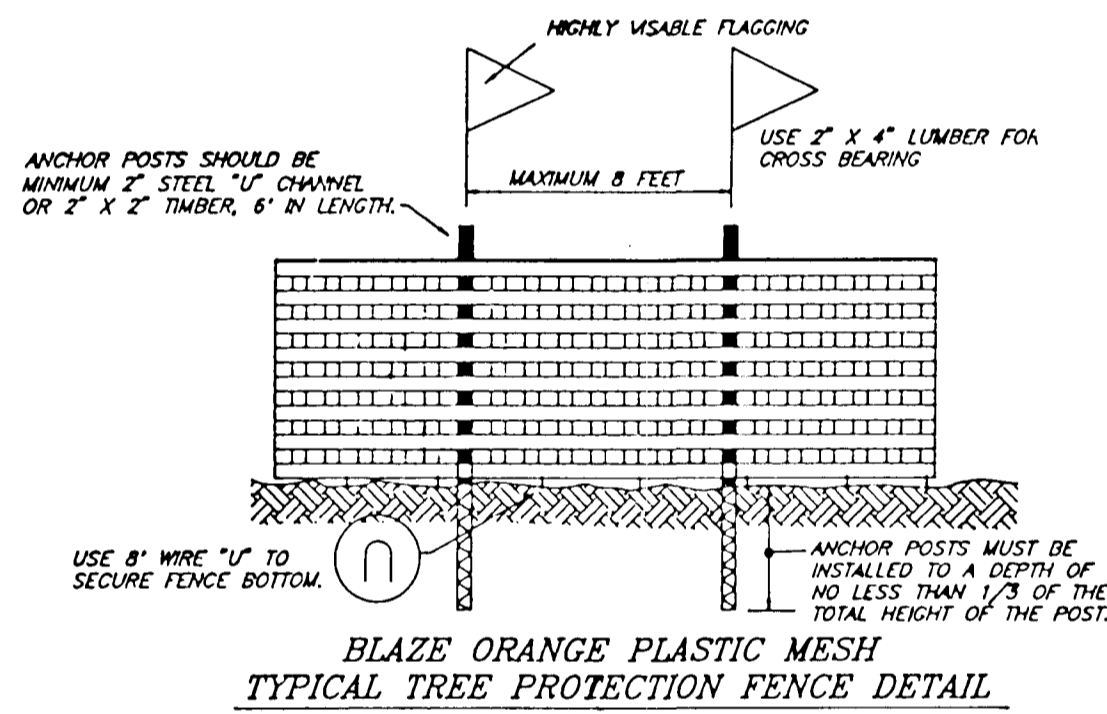
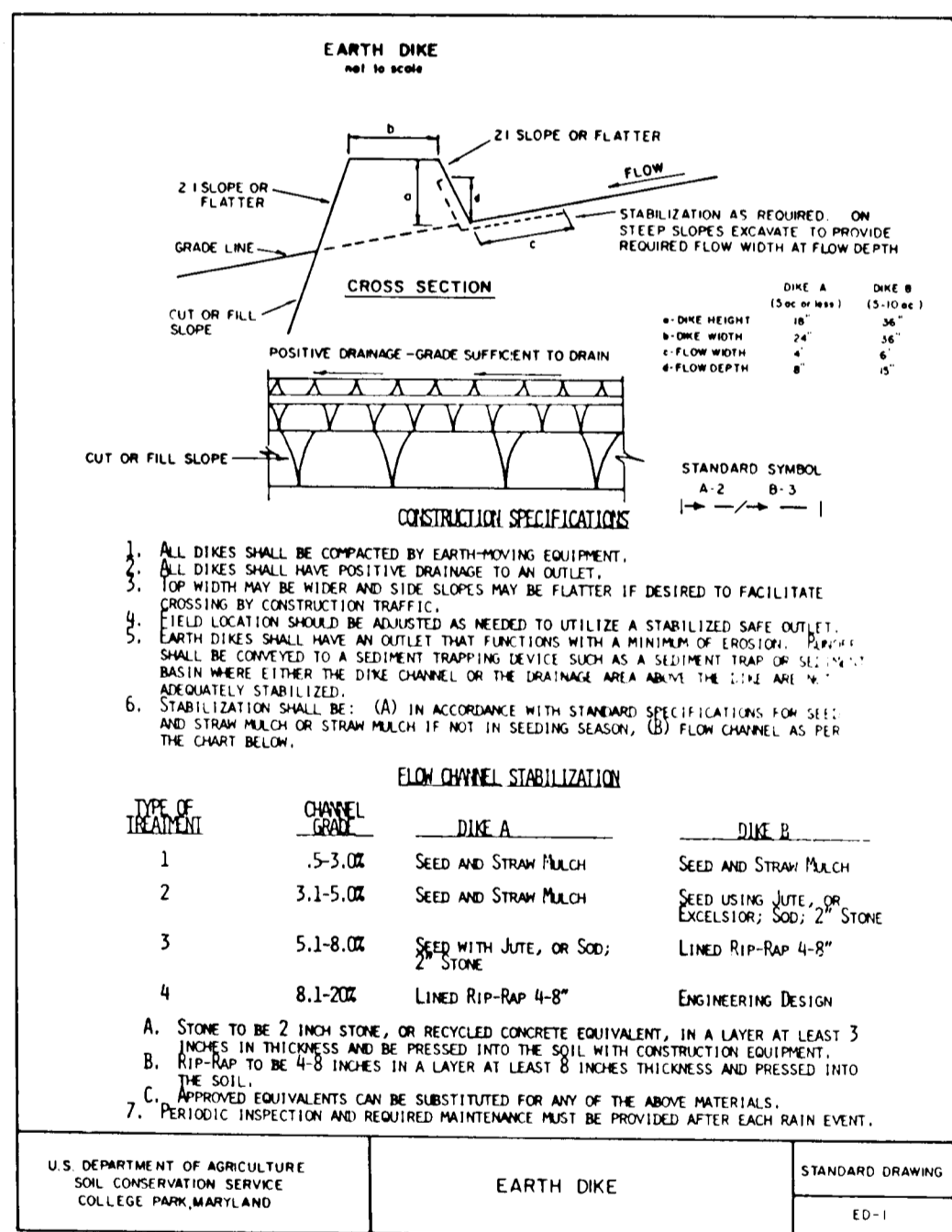
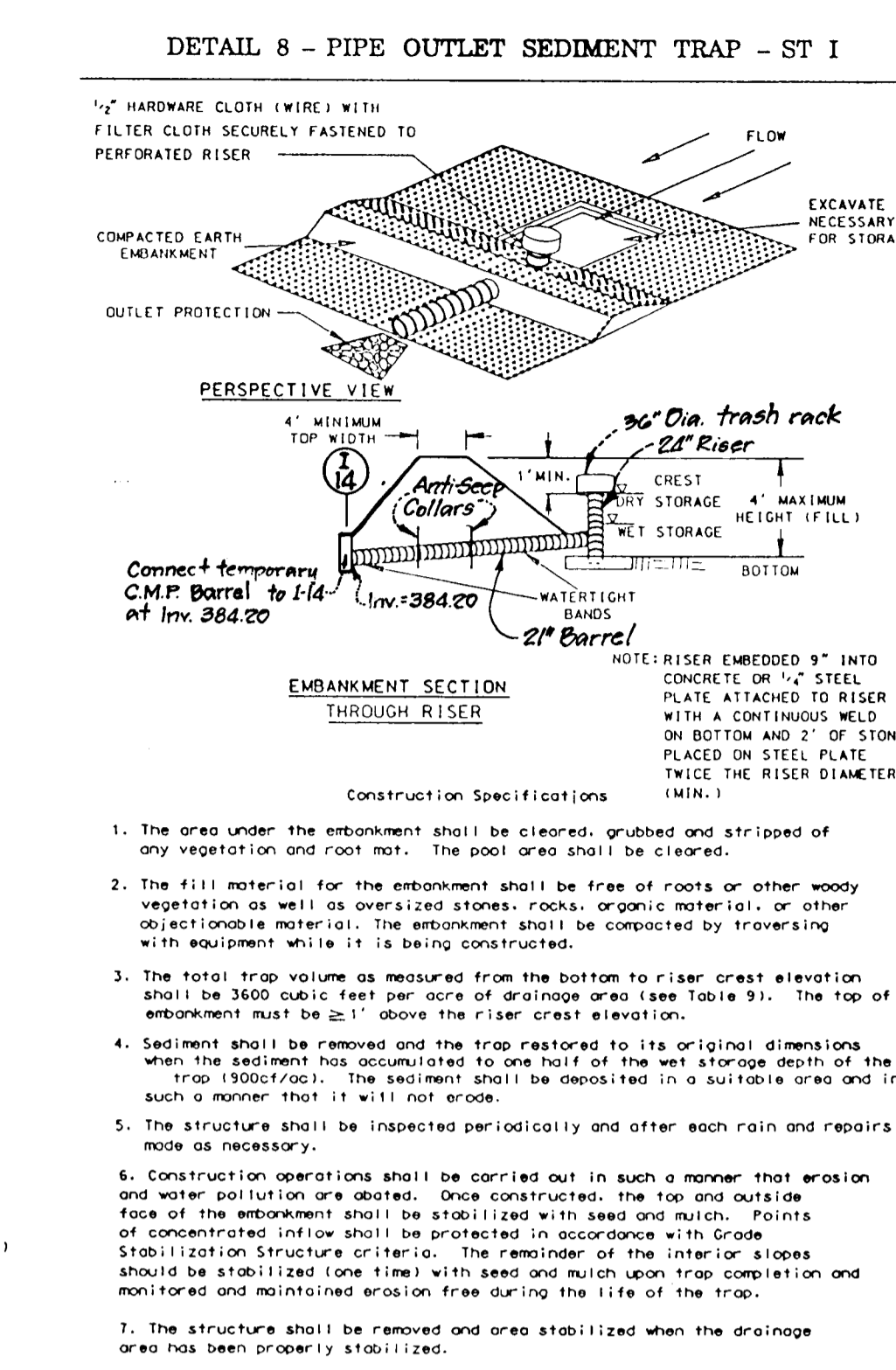
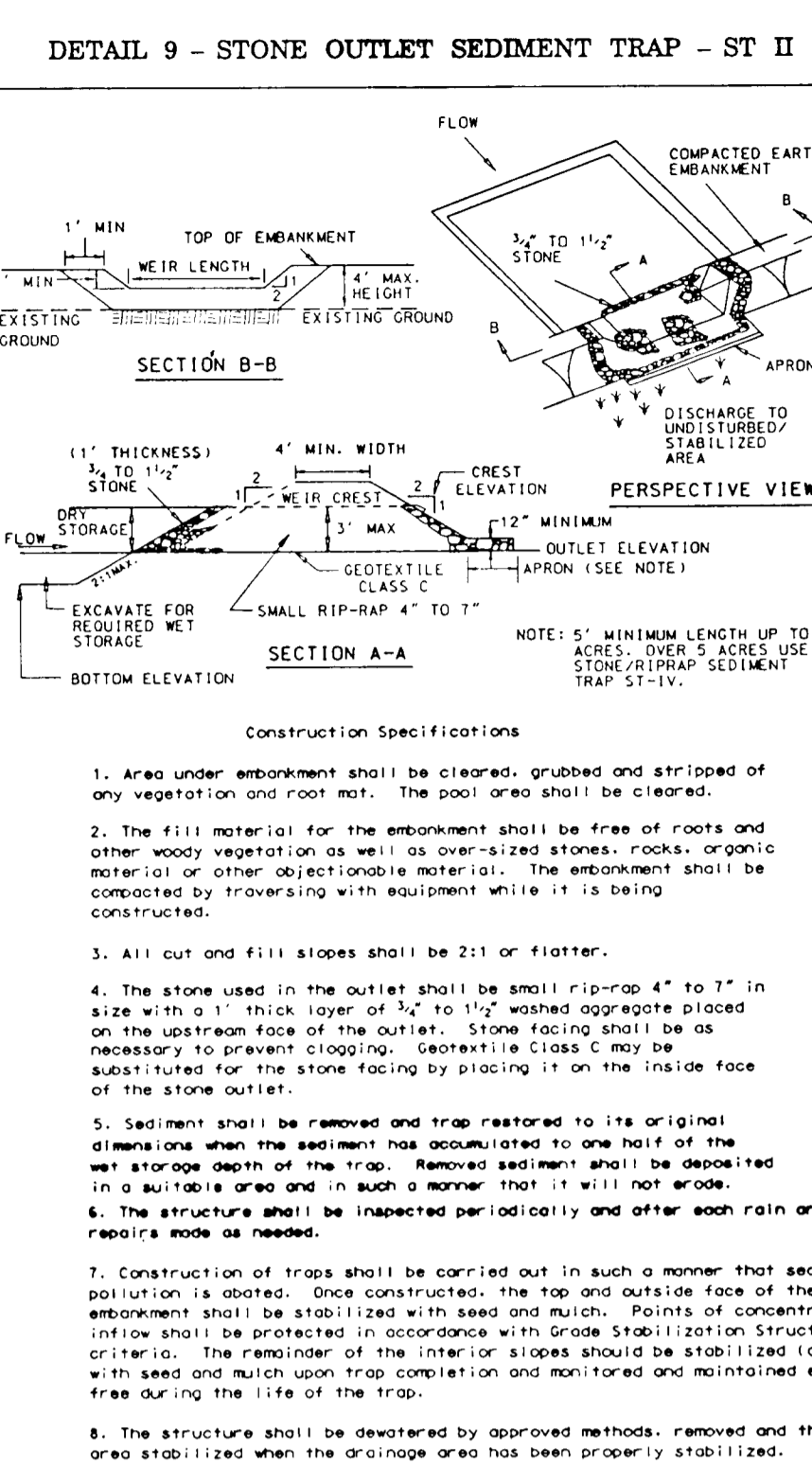
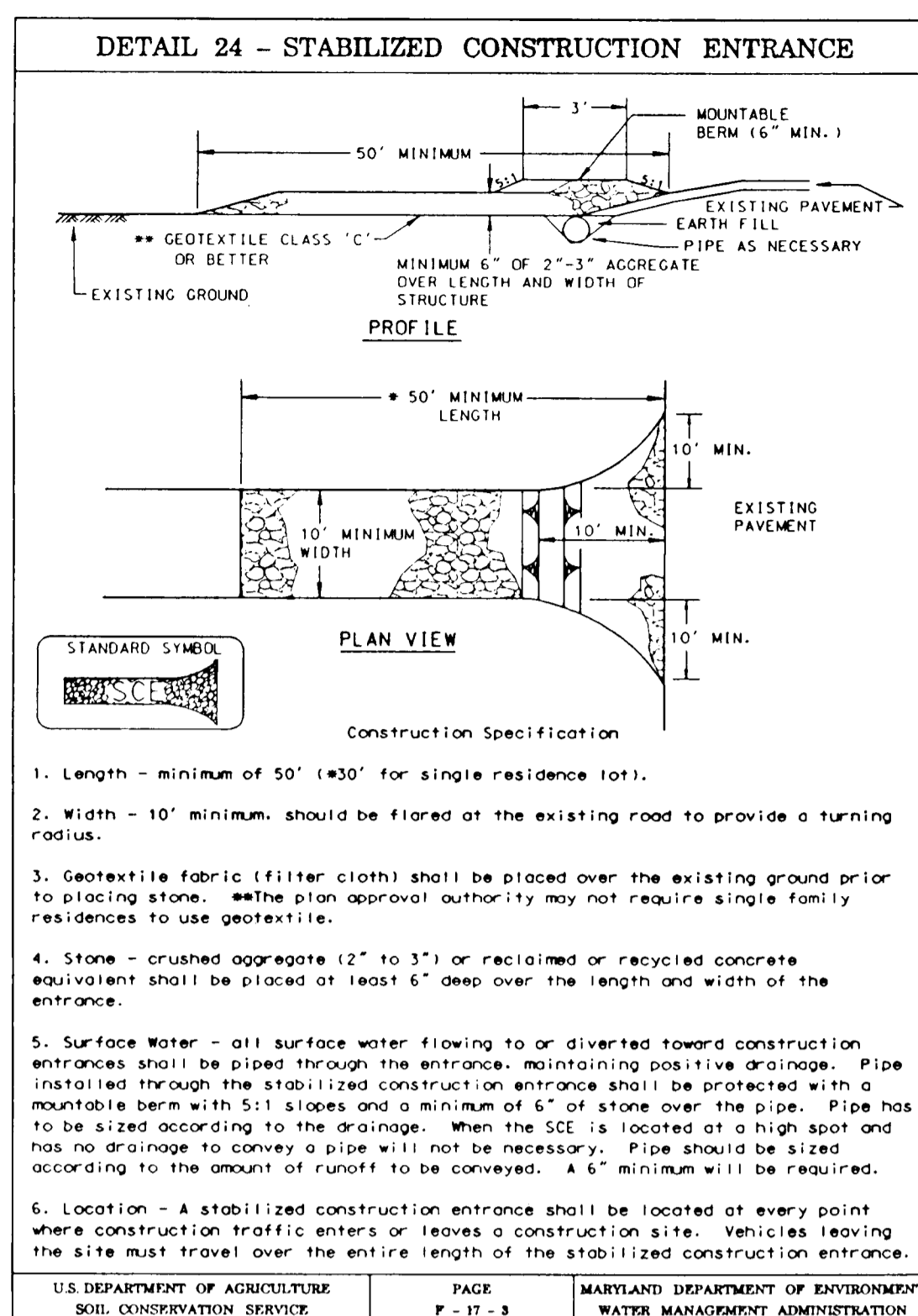
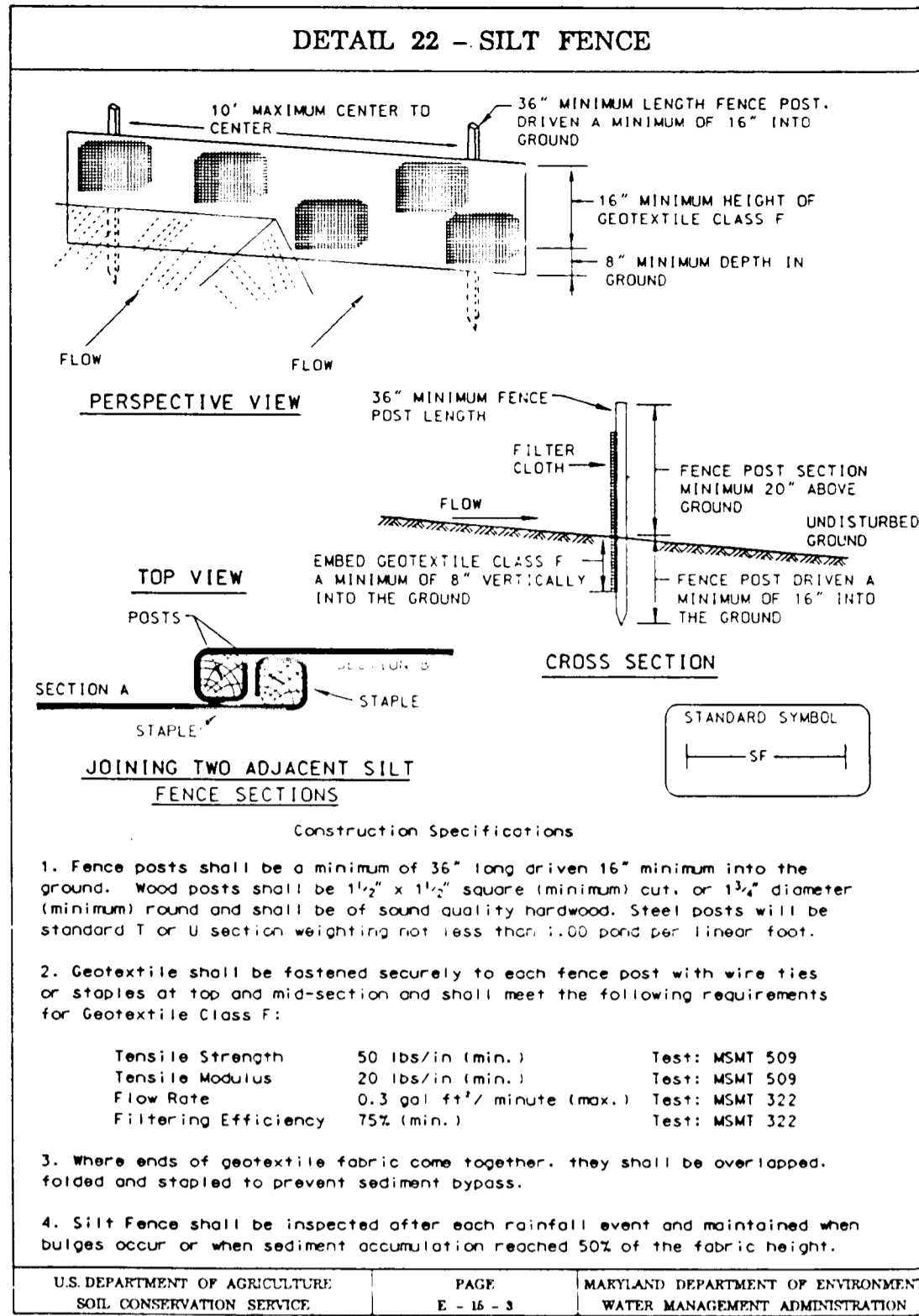
REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

SEDIMENT AND EROSION CONTROL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (313-1855).
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECS. FOR SOIL EROSION AND SEDIMENT CONTROL.
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within:
 - a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1
 - b) 14 days as to all other disturbed or graded areas on the project site.
4. All sediment traps/basins must be fenced and warning signs posted around their perimeters in accordance with Vol. I, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. All disturbed areas must be stabilized within the time period specified above, in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51), sod (Sec. 54), temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
7. SITE ANALYSIS:

Total Area of Site:	11.9 Ac.
Area Disturbed:	6.2 Ac.
Area to be roofed or paved:	1.5 Ac.
Area to be vegetatively stabilized:	4.7 Ac.
Total Cut:	15,000 cu. yd.
Total Fill:	19,000 cu. yd.
Offsite Waste/Borrow Area Location:	
8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
9. Additional sediment control must be provided, if deemed necessary by the Howard County DPW Sediment Control Inspector.
10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
11. The total amount of silt fence = **820 LF.**

* It is the responsibility of the contractor to identify the spoil/borrow site and notify and gain approval from the sediment control inspector of the site and its grading permit number at the time of construction.



SEQUENCE OF CONSTRUCTION

No. of Days	Description
7	Obtain grading permit.
14	Build inlet 1-14 and block inlet opening.
14	Install all sediment and erosion control devices, tree protection fence and stabilize.
45	Clear and rough grade site.
90	Build retention facility.
90	Construct storm drainage and block all inlet openings.
90	Fine grade roads and construct curb and gutter and paving.
14	Stabilize all disturbed areas on-site in accordance with Standards and Specs.
14	Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize.
7	Construct swale across lots 16-20 and stabilize.

Reviewed for: HOWARD S.G.D. and meets Technical Requirements
 Signature: [Signature] Date: 1/26/96
 Natural Resources Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature: [Signature] Date: 1/26/96

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize permanent on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."
 Signature: [Signature] Date: 10/19/95

ENGINEER'S CERTIFICATE

"I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
 Signature: [Signature] Date: 10/19/95

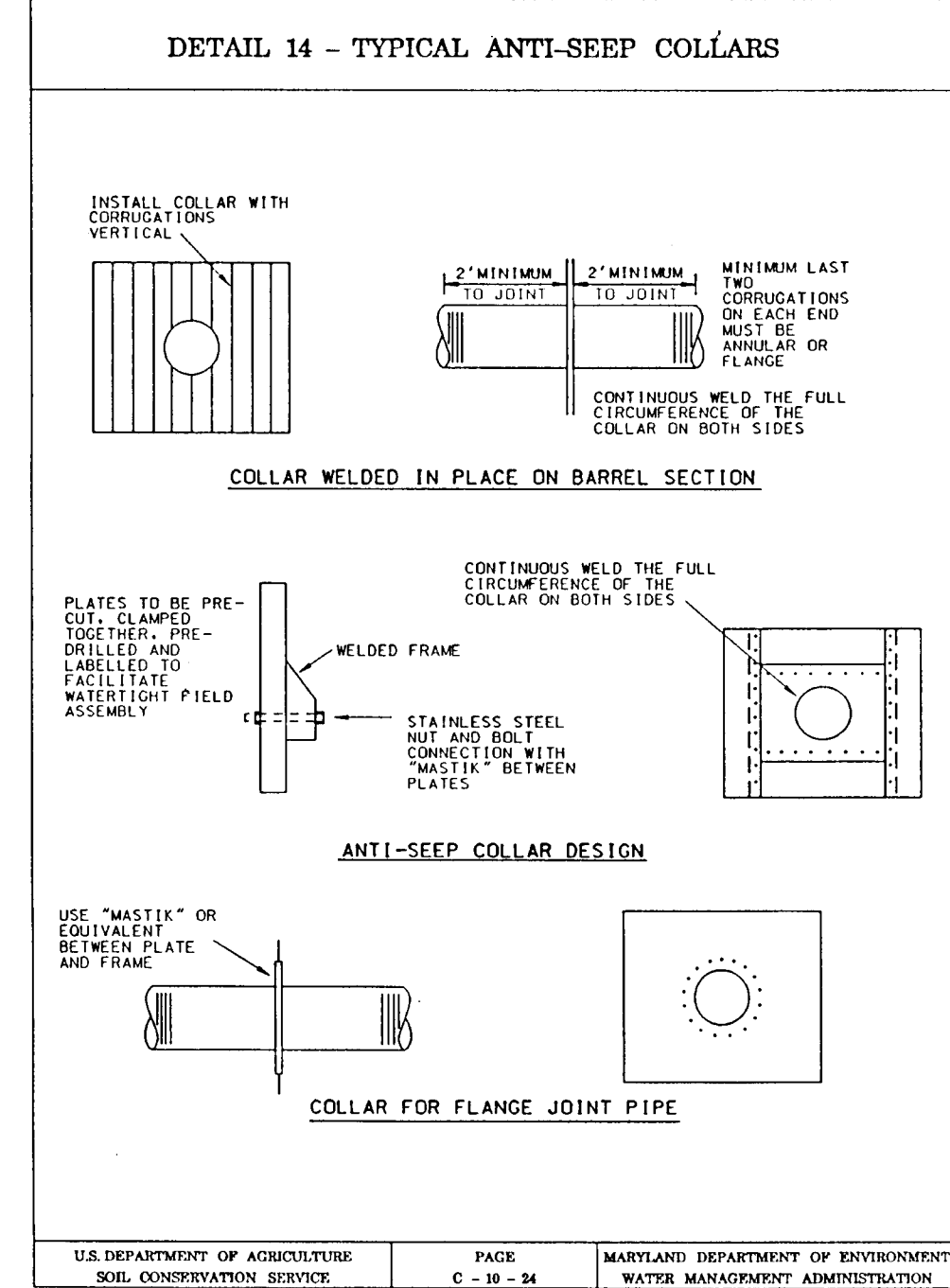
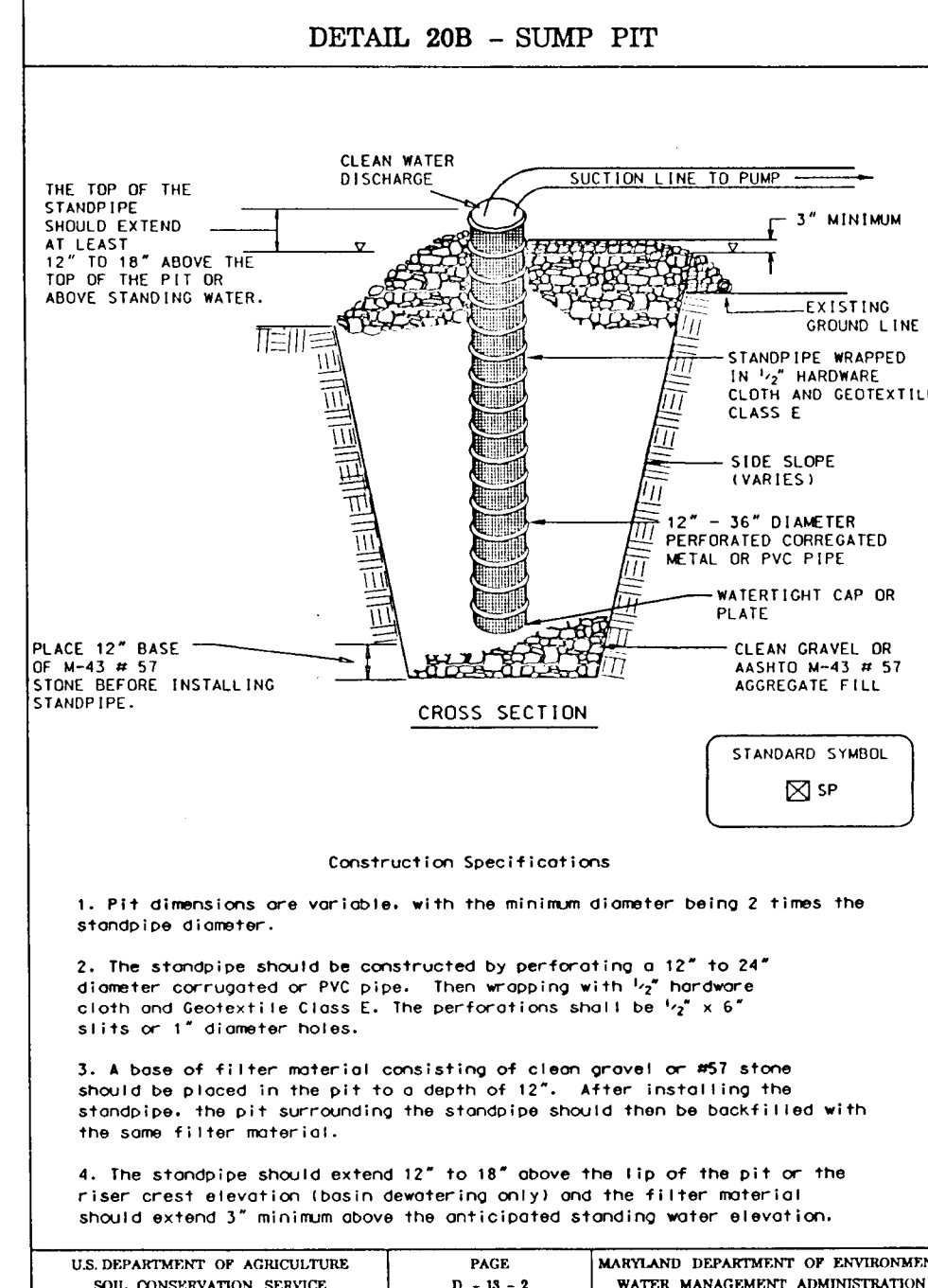
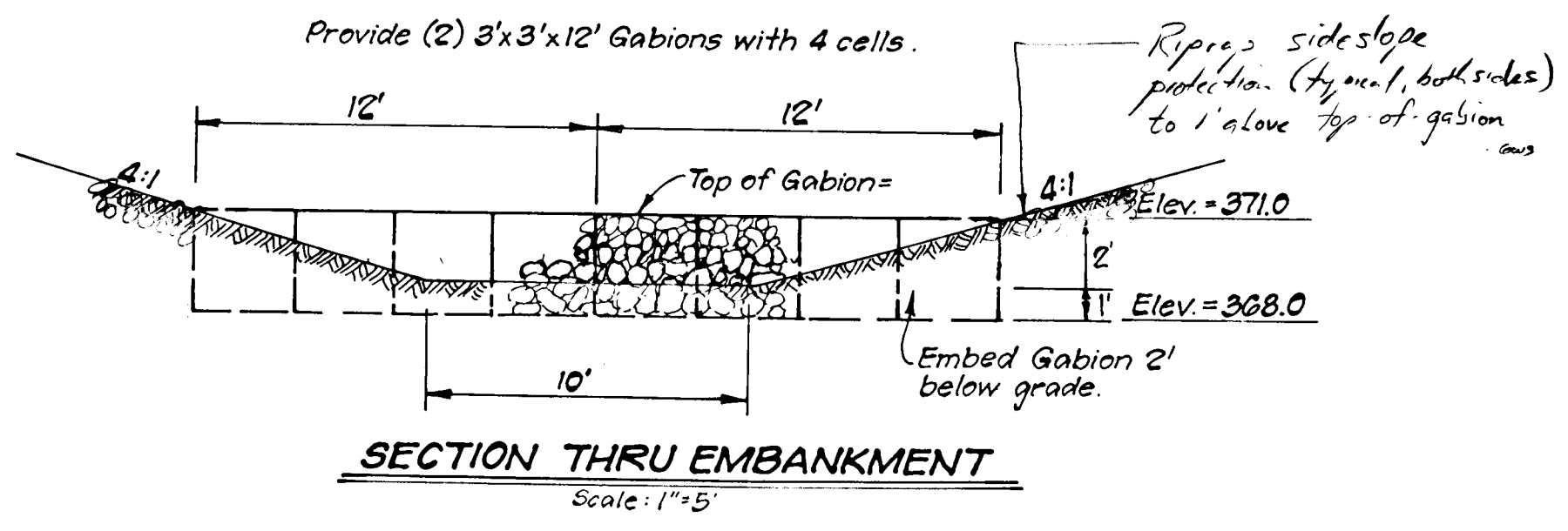
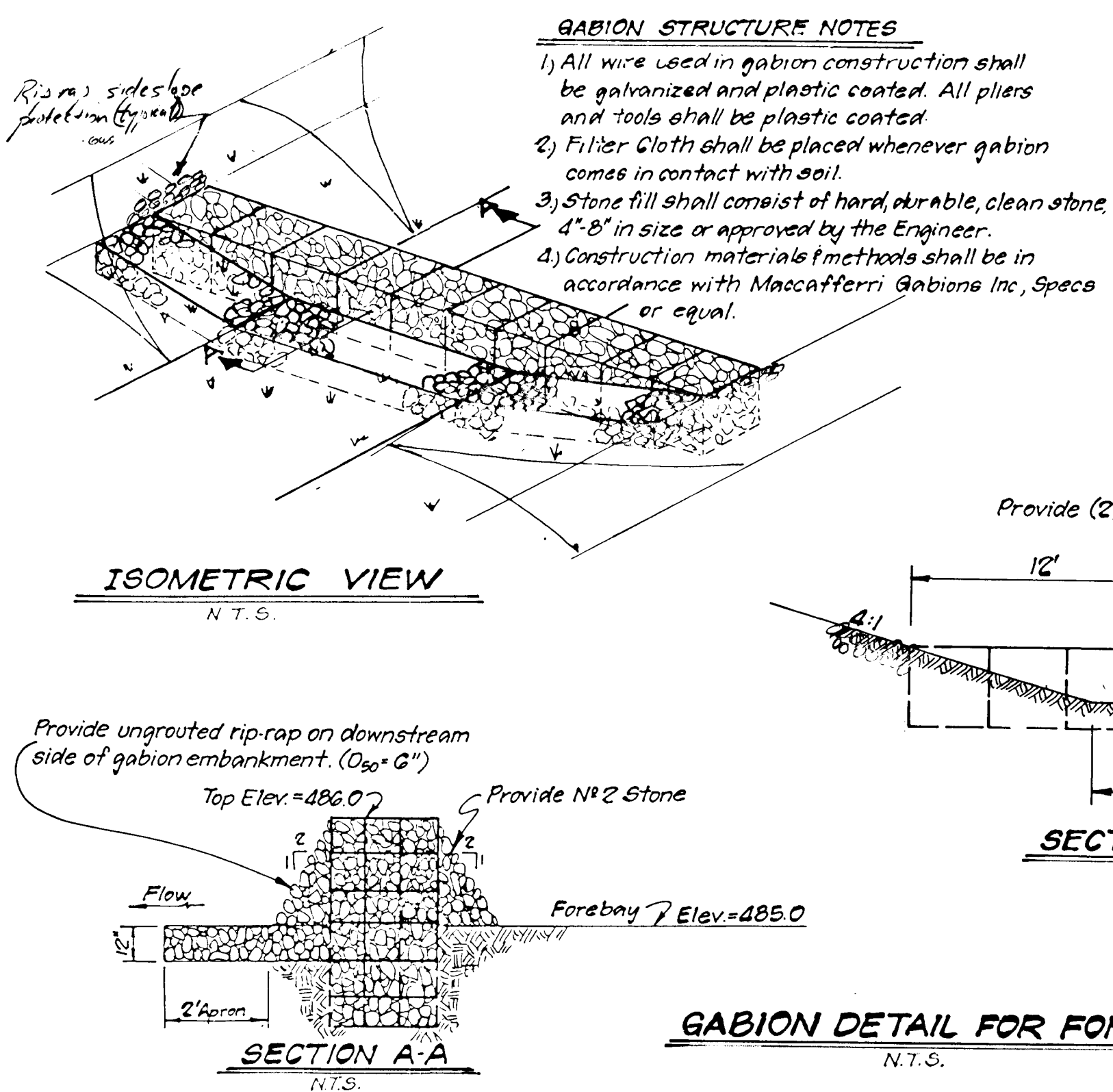
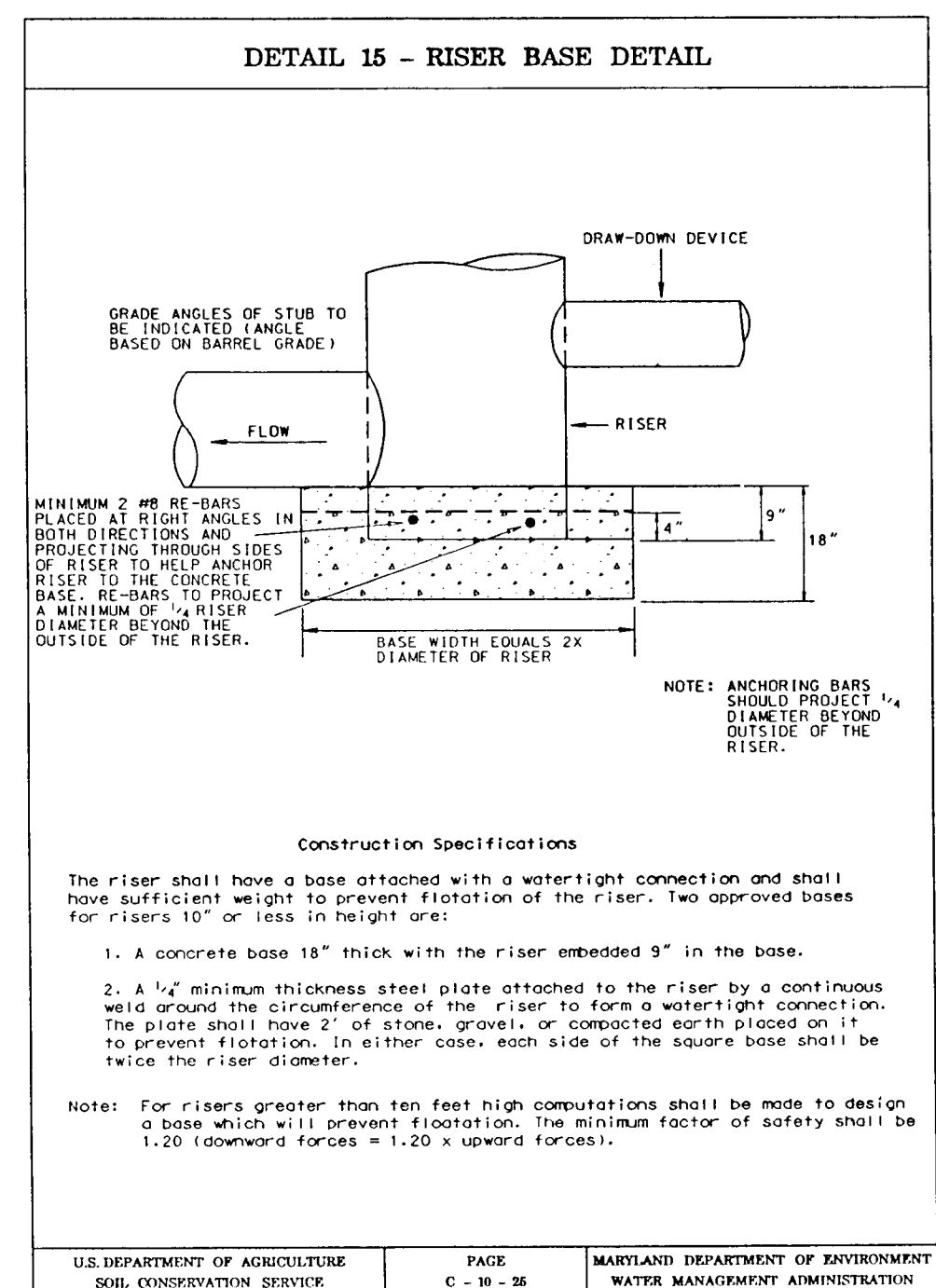
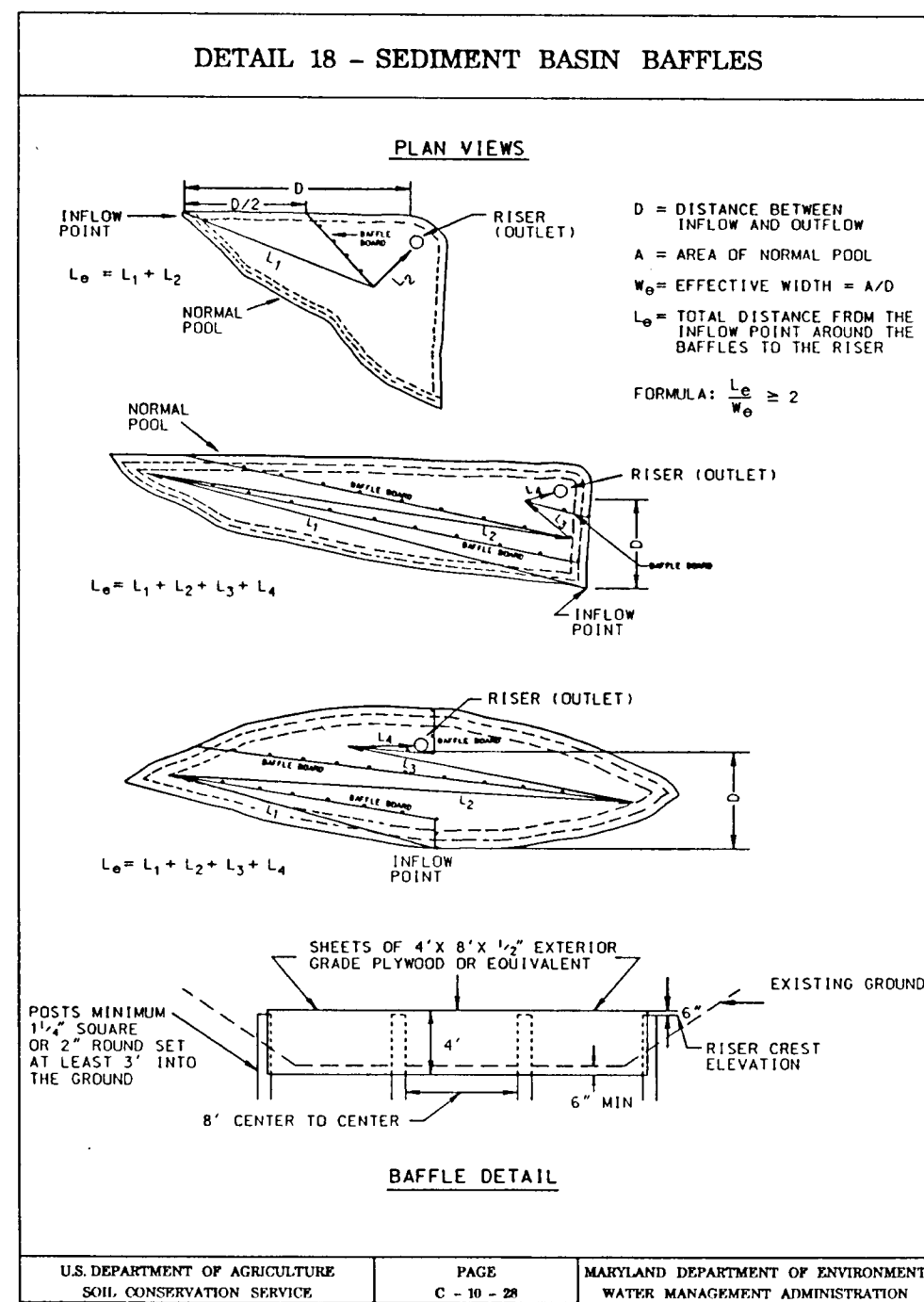
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Signature: [Signature] Date: 1-23-96
 CHIEF, BUREAU OF HIGHWAYS

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 Signature: [Signature] Date: 1/30/96
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

Signature: [Signature] Date: 1/25/96
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

CLARK • FINEROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 1115 MINSTREL WAY • COLUMBIA MD 21045 • (410) 381-7500 • BALTO • (301) 621-8100 • WASH

DESIGNED Z.A.L.	SEDIMENT EROSION CONTROL DETAILS	SCALE —
DRAWN Z4	BRICKHOUSE ON THE PIKE	DRAWING G OF 10
CHECKED P.18	TAX MAP 24, PARCEL 810 SECOND (2nd) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO 95-112
DATE 12-27-95	FOR: BRICKHOUSE ON THE PIKE, LLC - 6% LANDSOURCE DEV. CORP. 10480 LITTLE PATENTUR PARKWAY, SUITE 500 COLUMBIA, MARYLAND 21044 ATTN: CRESTON L. CATHCART PHONE: (410)-740-5674	FILE NO 95-112 D



HILLIS - CARNES ENGINEERING ASSOCIATES, INC.

RECORD OF SOIL EXPLORATION

Project Name: Brick House Property SWM Facility
 Location: Howard County, Maryland

Date: 7-14-95
 Soil Elev: 382.2
 Date Started: 7-14-95

ELEV.	SOIL DESCRIPTION	DEPTH (FEET)	SAMPLE NO.	NO.	REC.	NOTES	BORING & SAMPLING	
							DEPTH (FEET)	NO.
0.0	Surface	0.0	1	1-3-4	1	4" Topsoil	1	18"
1.0	Brown, damp, silty, slightly micaceous silt and sand with some roots	1.0	1	1-2-3	1	18"	1	18"
2.0	Brown, damp, medium dense micaceous to coarse silty sand with some weathered rock	2.0	2	3-6-9	2	18"	2	18"
5.0	Brown, damp, medium dense to very dense micaceous silt sand and weathered rock	5.0	3	4-5-7	3	18"	3	18"
10.0		10.0	4	7-10-16	4	18"	4	18"
15.0		15.0	5	4-6-7	5	18"	5	18"
16.5		16.5	6	40-30-37	6	18"	6	18"
Bottom of Boring at 16.5'		16.5						

US DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE C-18-38 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

HILLIS - CARNES ENGINEERING ASSOCIATES, INC.

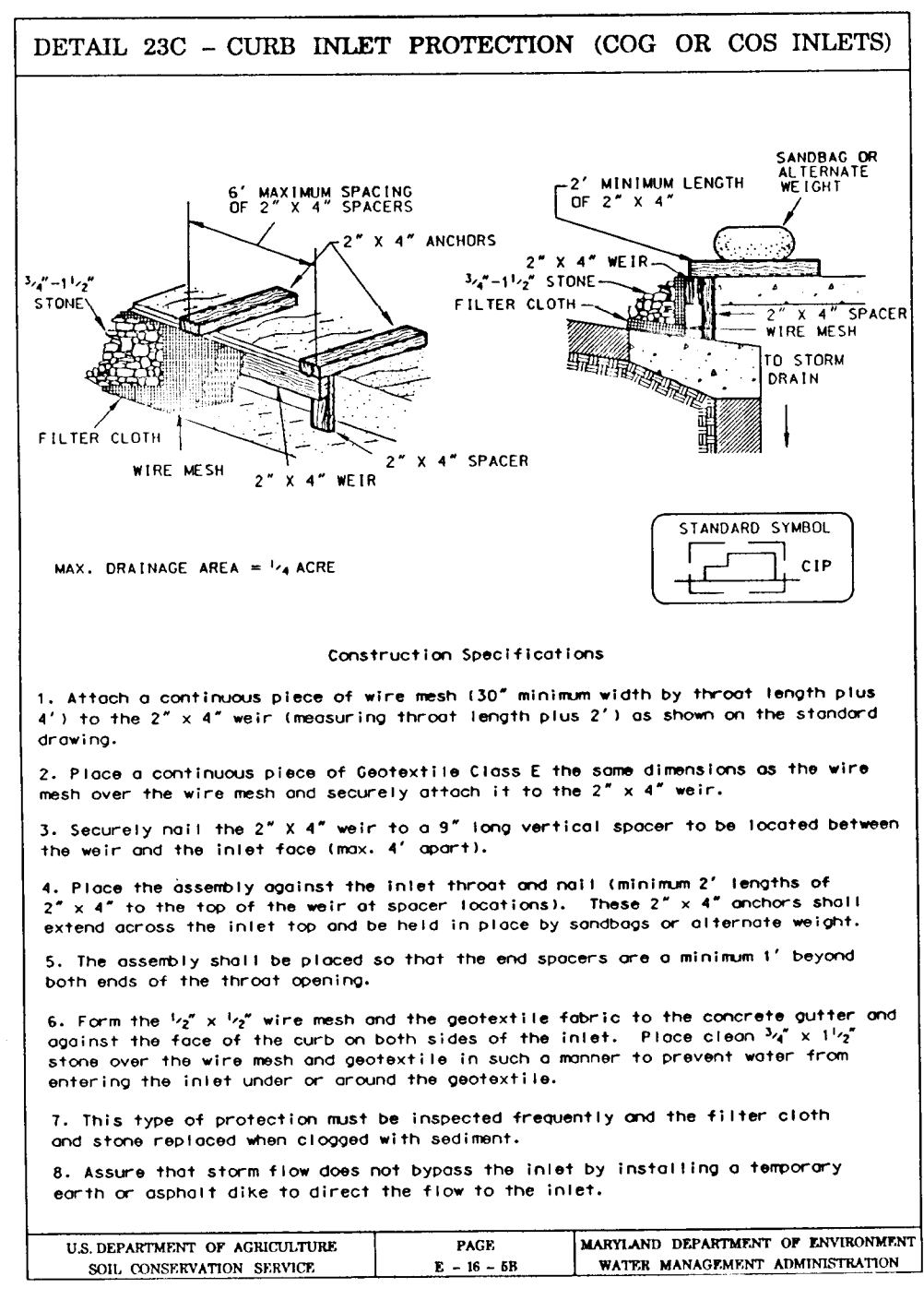
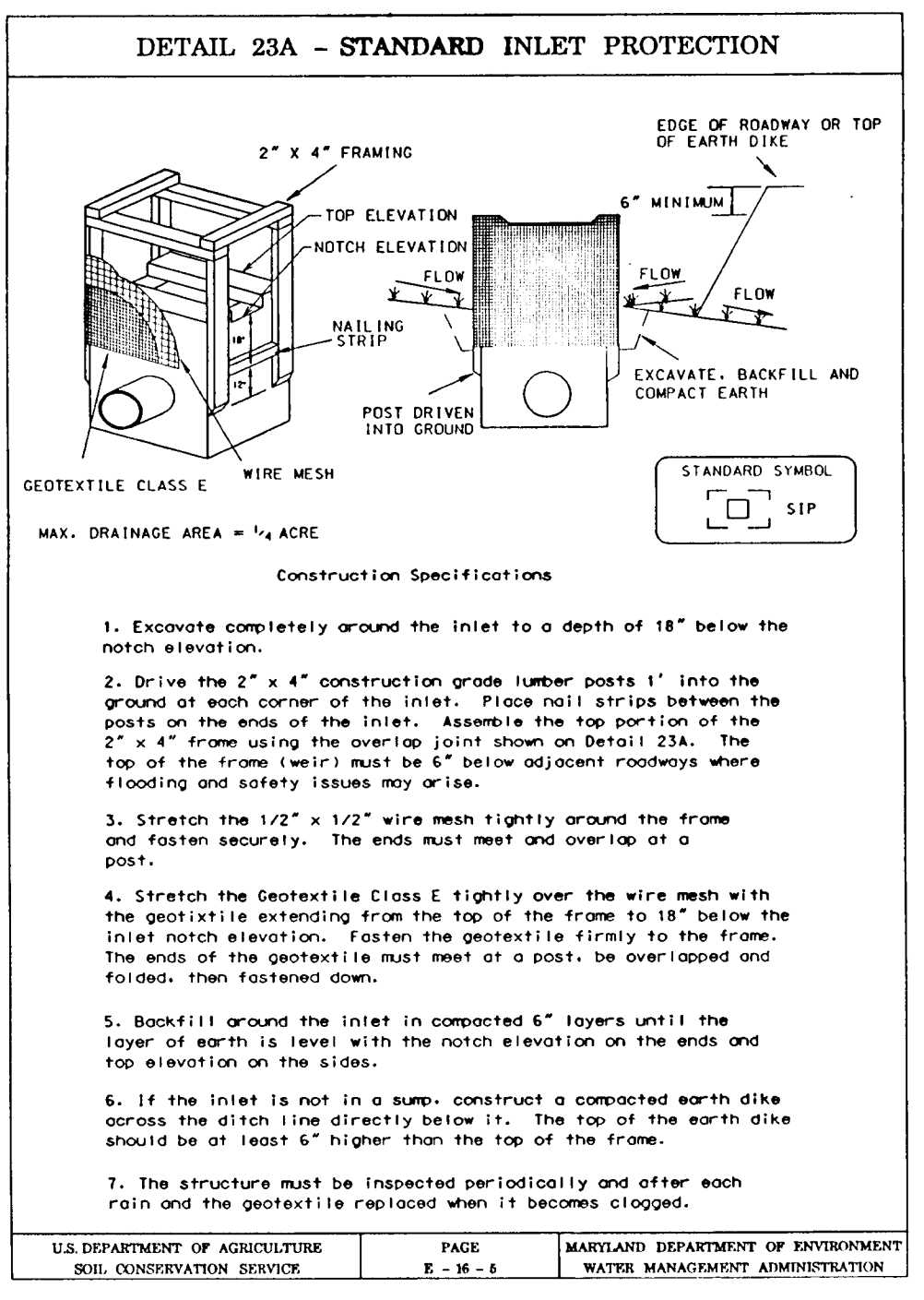
RECORD OF SOIL EXPLORATION

Project Name: Brick House Property SWM Facility
 Location: Howard County, Maryland

Date: 7-14-95
 Soil Elev: 378.9
 Date Started: 7-14-95

ELEV.	SOIL DESCRIPTION	DEPTH (FEET)	SAMPLE NO.	NO.	REC.	NOTES	BORING & SAMPLING	
							DEPTH (FEET)	NO.
0.0	Surface	0.0	1	1-2-3	1	18"	1	18"
1.0	Brown, damp, silty, slightly micaceous silt and sand with some roots	1.0	1	1-2-3	1	18"	1	18"
2.0	Brown, damp, medium dense micaceous to coarse silty sand with some weathered rock	2.0	2	3-6-9	2	18"	2	18"
5.0	Brown, damp, medium dense to very dense micaceous silt sand and weathered rock	5.0	3	4-5-7	3	18"	3	18"
10.0		10.0	4	7-10-16	4	18"	4	18"
15.0		15.0	5	4-6-7	5	18"	5	18"
16.5		16.5	6	40-30-37	6	18"	6	18"
Bottom of Boring at 16.5'		16.5						

US DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE C-18-38 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



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

Patricia Lef
 U.S. Soil Conservation Service
 1/2/96
 Date

By The Developer:

"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."

Robert W. Zehner
 Signature of Developer
 12/13/95
 Date

By The Engineer:

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

Jeffrey L. Schwab
 Signature of Engineer
 12/13/95
 Date

CLARK • FINEROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS

7135 MINTREL WAY • COLUMBIA, MD 21045 • (410) 381-7500 BALTO • (301) 621-8100 WASH

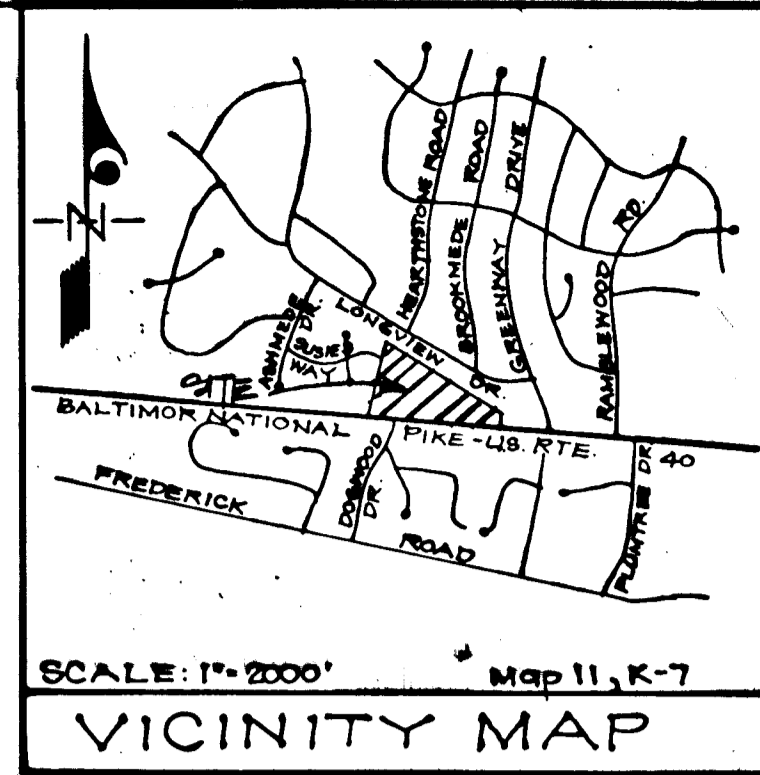
DESIGNED Z.A.L.	SEDIMENT EROSION CONTROL AND STORM DRAIN DETAILS BRICKHOUSE ON THE PIKE TAX MAP 24, PARCEL 810 SECOND (2nd) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE —
DRAWN Z.A.H.		DRAWING 7 of 10
CHECKED J.B.B.		JOB NO. 95-112
DATE 12-27-95		FILE NO. 95-112-D
		FOR BRICKHOUSE ON THE PIKE, SEE SURVEY SOURCE DEV. CORP. ROAD LITTLE PATRICK PARKWAY, SUITE 300 COLUMBIA, MARYLAND 21046 (410) 381-7500

1776

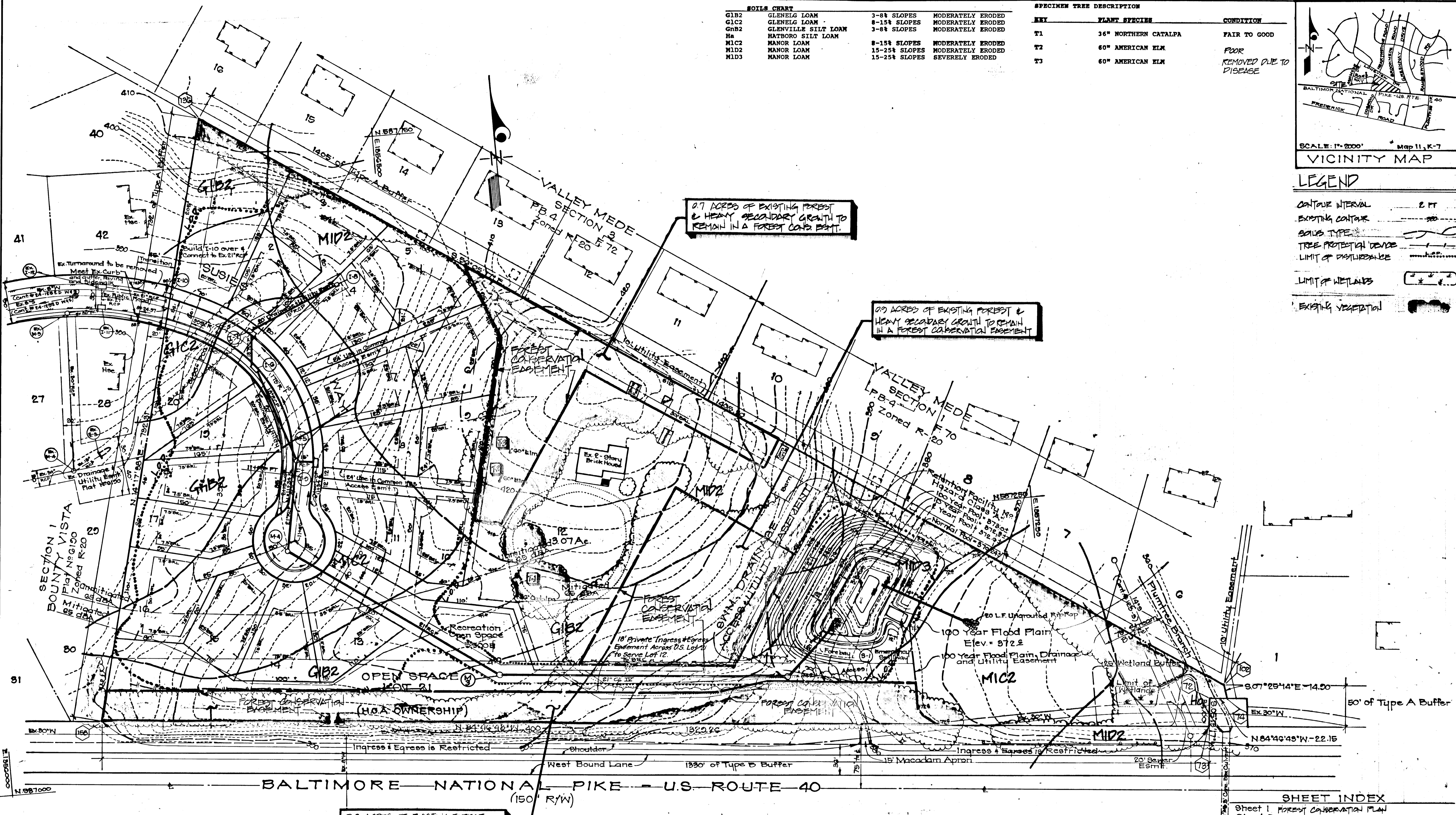
F 96.56

SOILS CHART		
G1B2	GLENELG LOAM	3-8% SLOPES MODERATELY ERODED
G1C2	GLENELG LOAM	8-15% SLOPES MODERATELY ERODED
GhB2	GLENEVILLE SILT LOAM	3-8% SLOPES MODERATELY ERODED
Ha	HATBORO SILT LOAM	3-8% SLOPES MODERATELY ERODED
M1C2	MANOR LOAM	8-15% SLOPES MODERATELY ERODED
M1D2	MANOR LOAM	15-25% SLOPES MODERATELY ERODED
M1D3	MANOR LOAM	15-25% SLOPES SEVERELY ERODED

SPECIMEN TREE DESCRIPTION		
KEY	PLANT SPECIES	CONDITION
T1	36" NORTHERN CATALPA	FAIR TO GOOD
T2	60" AMERICAN ELM	POOR
T3	60" AMERICAN ELM	REMOVED DUE TO DISEASE



LEGEND	
CONTOUR INTERVAL	2 FT
EXISTING CONTOUR	---
SOILS TYPE	---
TREE PROTECTION DEVICE	---
LIMIT OF DISTURBANCE	---
LIMIT OF WETLANDS	---
EXISTING VEGETATION	---



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Howard M. Danah
 CHIEF, BUREAU OF HIGHWAYS
 DATE: 1/23/96

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
Anna S. Starnowicz
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH
 DATE: 1/30/96

William J. ...
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 1/25/96

0.9 ACRES OF EXISTING FOREST TO REMAIN IN A FOREST CONSERVATION EASEMENT

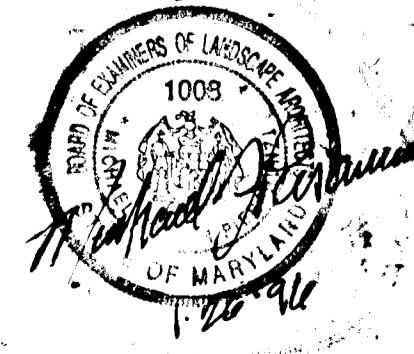
CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (410) 381-7500 - BALTO. • (301) 821-8100 - WASH.

DESIGNED: MJP
 DRAWN: JLS
 CHECKED: JLS
 DATE: 12-27-95

SCALE: 1"=50'
 DRAWING: 05 of 10
 JOB NO.: 05-112
 FILE NO.: 05-1120

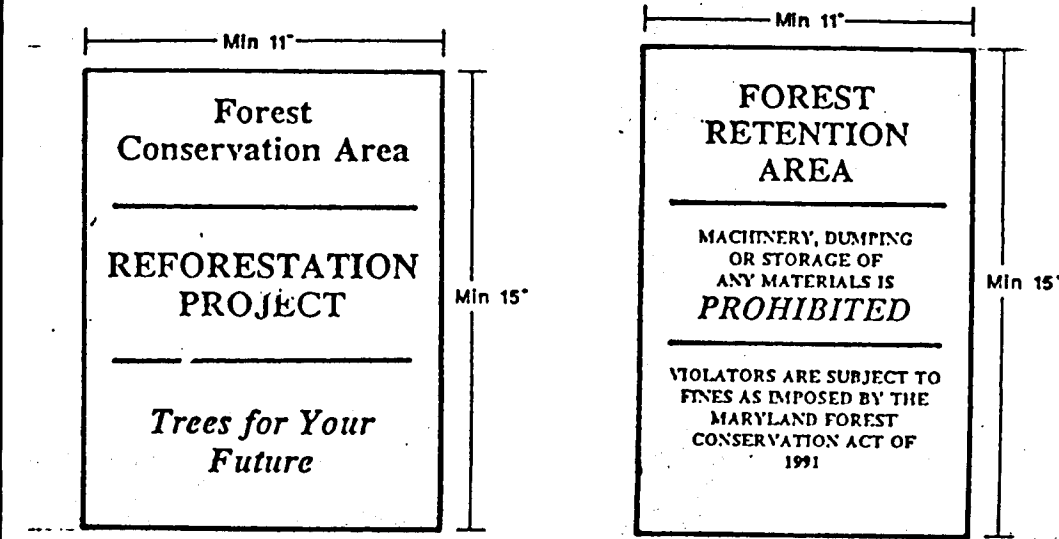
FOR: BRICKHOUSE ON THE PIKE, LLC - % LANDSOURCE DEV. CORP.
 10480 LITTLE PATUXENT FERRY, SUITE 500
 COLUMBIA, MARYLAND 21044
 ATTN: CRESTON L. CATHCART PHONE: 410-740-8274

No	REVISIONS	Date
1	Rev. Storm Drainage M-2 of M-3 and Forest Cons Eas	6-18-96



4779

Reforestation and Afforestation Area Protection Signage



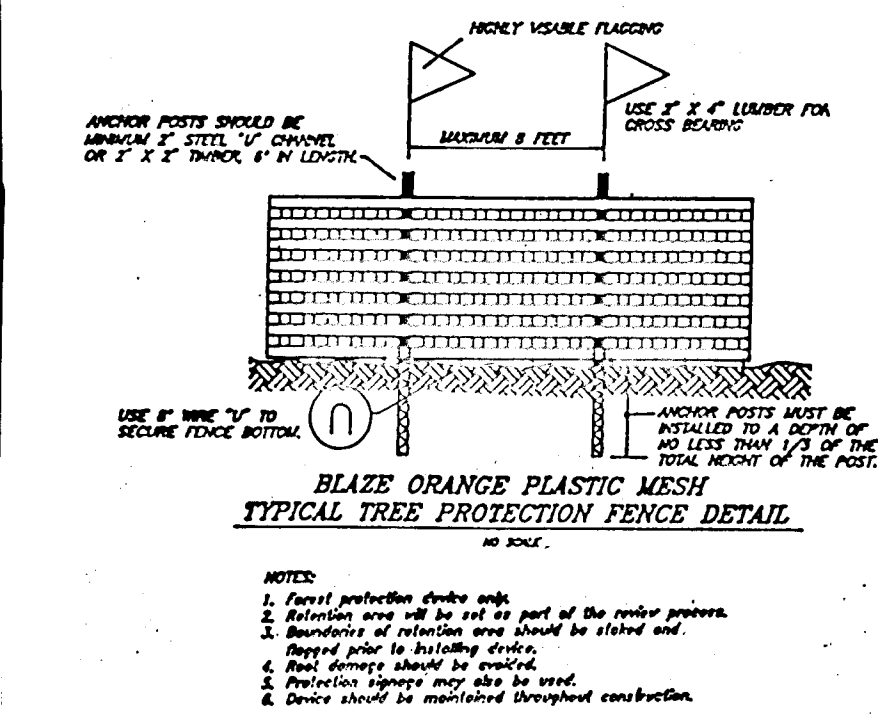
Tree Planting and Maintenance Calendar General Guidelines

	J	F	M	A	M	J	J	A	S	O	N	D
Transplant of 2" DBH or Greater	NOT RECOMMENDED											
Planting of Seedlings, Whips	NOT RECOMMENDED											
Inspection	X					X			X			
Fertilizer (if needed)	N, P, K											
Water												

KEY:
 [Hatched Box] = greatly recommended
 [Dotted Box] = recommended with additional care
 [White Box] = dependent upon site conditions

Note: Activities during November through February are dependent upon ground conditions.

The planting and care of trees is most successful when coordinated with the local climatic conditions. This calendar summarizes some of the recommended time frames for basic reforestation and stress reduction activities.



GENERAL NOTES:

1. WORK RELATED TO THIS FOREST CONSERVATION PLAN SHALL BE PERFORMED ONLY BY A LANDSCAPE CONTRACTOR EXPERIENCED IN REFORESTATION/AFFORESTATION PRACTICES.
2. THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOREST CONSERVATION ACT. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENTS; HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
3. THE FOREST STAND DELINEATION WAS PREPARED BY EXPLORATION RESEARCH, INC. ON JULY 27, 1994. Revised October 1995 by Wildman Environmental Services.

CONSTRUCTION PERIOD PROTECTION & MANAGEMENT:

1. THE CONSTRUCTION PERIOD EXTENDS FROM APPROVAL OF THE PROPOSAL UNTIL COMPLETION OF ALL SITE IMPROVEMENTS AND RELEASE OF DEVELOPERS AGREEMENTS & BONDS.
2. ALL APPLICABLE CONSTRUCTION ACTIVITIES SHALL CONFORM TO THE TERMS AND CONDITIONS OF THE APPROVED SEDIMENT AND EROSION CONTROL PLAN.
3. TREE PROTECTION FENCING AND TEMPORARY SIGNAGE SHALL BE INSTALLED ALONG TREE SAFE AREAS THAT ARE WITHIN 50' OF ANY CONSTRUCTION ACTIVITIES AND IN ACCORDANCE WITH THE APPROVED SEDIMENT AND EROSION CONTROL PLAN.
4. PLACE PROTECTIVE FENCING & SIGNAGE AROUND SPECIMEN TREES AS SHOWN ON THE PLAN.
5. VEHICLES, EQUIPMENT, MACHINERY, DEBRIS, TEMPORARY STRUCTURES AND/OR EXCESSIVE PEDESTRIAN TRAFFIC SHALL NOT BE PERMITTED IN THE RETENTION AREAS.
6. THE REFORESTATION/AFFORESTATION SHALL BE CLEARLY MARKED BY PERMANENT SIGNAGE AT +/-100' INTERVALS.

- THE FENCE SHALL BE OF SUFFICIENT CONSTRUCTION TO IMPED ENTRY AND MARKED APPROPRIATELY WITH CONSPICUOUS MARKERS AND/OR SIGNAGE.
7. ALL TEMPORARY FENCING SHALL BE REMOVED AT THE END OF CONSTRUCTION PERIOD WITH THE APPROVED SEDIMENT AND EROSION CONTROL PLAN.
 8. SUMMARY OF CONSTRUCTION PERIOD SEQUENCE:
 - A. OBTAIN GRADING PERMIT.
 - B. INSTALL TEMPORARY TREE PROTECTION FENCING AND SIGNAGE ALONG LIMITS OF DISTURBANCE AND AROUND SPECIMEN TREES.
 - C. PROCEED WITH CLEARING, GRADING, STABILIZATION OR CONSTRUCTION IN ACCORDANCE WITH APPROVED PLANS.
 - D. AFTER COMPLETED CONSTRUCTION, REMOVE TEMPORARY TREE PROTECTION DEVICES.
 - E. PLACE PERMANENT PROTECTIVE DEVICES, I.E. SIGNAGE AND FENCING AS DEEMED NECESSARY.

APPENDIX G
FOREST CONSERVATION WORKSHEET

	ACRES (1/10 ACRES)
I. BASIC SITE DATA	
GROSS SITE AREA	11.9
AREA WITHIN 100 YEAR FLOODPLAIN	1.2
AREA WITHIN AGRICULTURAL USE OR PRESERVATION PARCEL (IF APPLICABLE)	
NET TRACT AREA	10.7
LAND USE CATEGORY (R-RLD, R-RMD, R-S, C/A/O, U) R-PD	
II. INFORMATION FOR CALCULATIONS	
A. NET TRACT AREA	10.7
B. REFORESTATION THRESHOLD (20% x A)	2.1
C. AFFORESTATION MINIMUM (25% x A)	2.6
D. EXISTING FOREST ON NET TRACT AREA	3.1
E. FOREST AREAS TO BE CLEARED OR UNPROTECTED	0.8
F. FOREST AREAS TO BE RETAINED	2.3
III. DETERMINING REQUIREMENTS: AFFORESTATION OR REFORESTATION	
1. <u>Reforestation</u>	
If existing forest areas equal or exceed the afforestation minimum (if D equals or is more than C), and clearing of forest areas is proposed, reforestation requirements may apply.	
GO TO SECTION IV	
If existing forests exceed the afforestation minimum (if D equals or is more than C) and no clearing of existing forest resources is proposed, no reforestation is required. No further calculations are needed.	
2. <u>Afforestation</u>	
If existing forest area are less than the afforestation minimum (if D is less than C), afforestation requirements apply.	
GO TO SECTION V	

	ACRES (1/10 ACRES)
IV. REFORESTATION CALCULATIONS	
A. NET TRACT AREA	10.7
B. REFORESTATION THRESHOLD (20% x A)	2.1
D. EXISTING FOREST ON NET TRACT AREA	3.1
E. FOREST AREAS TO BE CLEARED OR UNPROTECTED	0.8
F. FOREST AREAS TO BE RETAINED	2.3
G. FOREST AREAS CLEARED ABOVE REFORESTATION THRESHOLD (D - F, if F equals or is greater than B, Alternate 1)	0.8
H. FOREST AREAS CLEARED BELOW REFORESTATION THRESHOLD (D - B, if F is less than B, Alternate 2)	
I. FOREST AREAS RETAINED ABOVE REFORESTATION THRESHOLD (B - F, if applicable)	0.2
Select the alternative that applies:	
1. <u>Clearing above the threshold only</u>	
If forest areas to be retained equal or are greater than the reforestation threshold (if F equals or is greater than B), the following calculations apply:	
REFORESTATION FOR CLEARING ABOVE THRESHOLD (G x 1/4)	0.2
CREDIT FOR FOREST AREAS RETAINED ABOVE THRESHOLD (I + Retention Credit)	0.2
TOTAL REFORESTATION REQUIRED (G x 1/4) - I	0
If the total reforestation requirement is equal to or less than 0, no reforestation is required.	
2. <u>Clearing below the threshold</u>	
If forest areas to be retained are less than the reforestation threshold (if F is less than B), the following calculations apply:	
REFORESTATION FOR CLEARING ABOVE THRESHOLD (G x 1/4)	
REFORESTATION FOR CLEARING BELOW THRESHOLD (H x 2)	
TOTAL REFORESTATION REQUIRED (G x 1/4) + (H x 2)	
Since clearing occurs below the threshold, no forest retention credit is possible.	

BONDING NOTE
 This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code and Landscape Manual. Financial surety for the required 30 landscape trees in the amount of \$3600 is part of the Developers Agreement.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 1-23-96
 CHIEF, BUREAU OF HIGHWAYS

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 [Signature] 1/30/96
 CHIEF DIVISION OF PLANNING AND RESEARCH

[Signature] 1/25/96
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

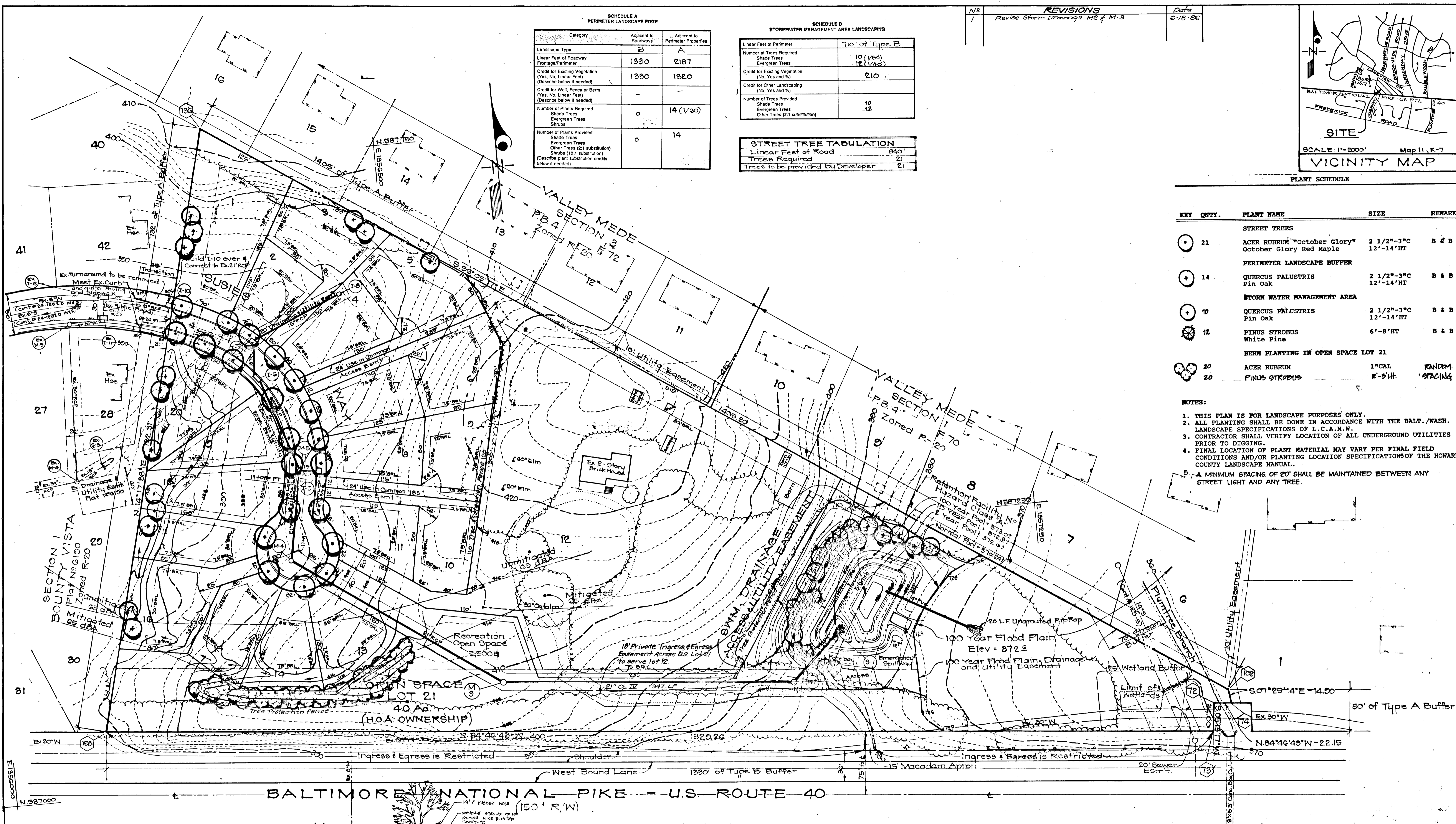
CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (410) 381-7500 - BALTO. • (301) 621-8100 - WASH.

DESIGNED MJP	FOREST CONSERVATION PLAN DETAILS LOTS 1-20 AND OPEN SPACE LOT 21 BRICKHOUSE ON THE PIKE	SCALE No Scale
DRAWN MJP		DRAWING 9 of 10
CHECKED JLS	TAX MAP 24, PARCEL 810 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 05-112
DATE 12-27-05	FOR: BRICKHOUSE ON THE PIKE, LLC % LANDSOURCE DEV. CORP. 10480 LITTLE PATUXENT PKWY., SUITE 500 COLUMBIA, MARYLAND 21044 ATTN: CRESTON L. CATHART	FILE NO. 05-112D

Phone: (410) 740-5674



1-96-56



SCHEDULE A PERIMETER LANDSCAPE EDGE

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Linear Feet of Roadway Frontage/Perimeter	1330	2187
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	1330	1320
Number of Plants Required	0	14 (1/00)
Number of Plants Provided	0	14

SCHEDULE D STORMWATER MANAGEMENT AREA LANDSCAPING

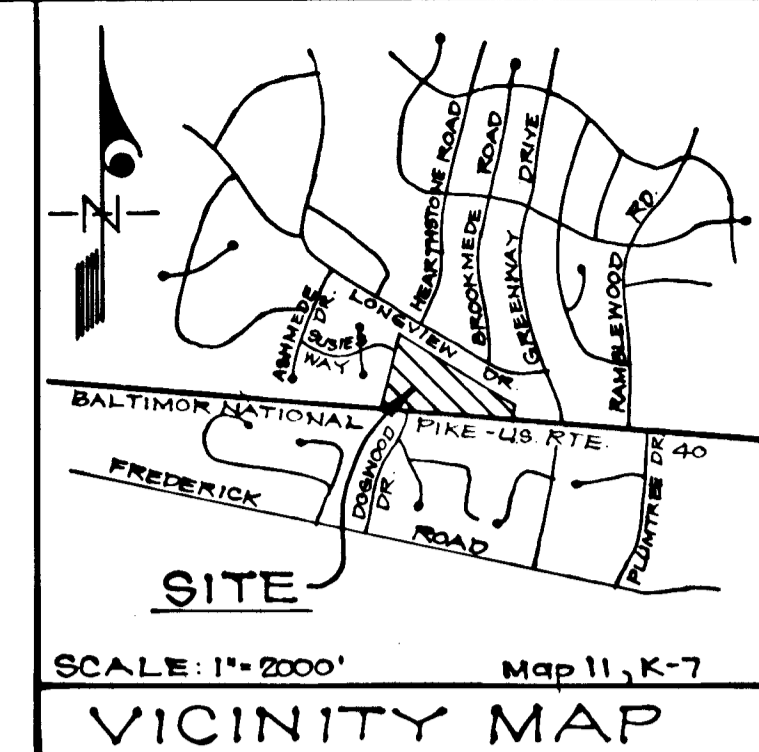
Linear Feet of Perimeter	710' of Type B
Number of Trees Required	10 (1/00)
Credit for Existing Vegetation (No, Yes and %)	12 (1/43)
Number of Trees Provided	10
Number of Plants Provided	12

STREET TREE TABULATION

Linear Feet of Road	840'
Trees Required	21
Trees to be provided by developer	21

REVISIONS

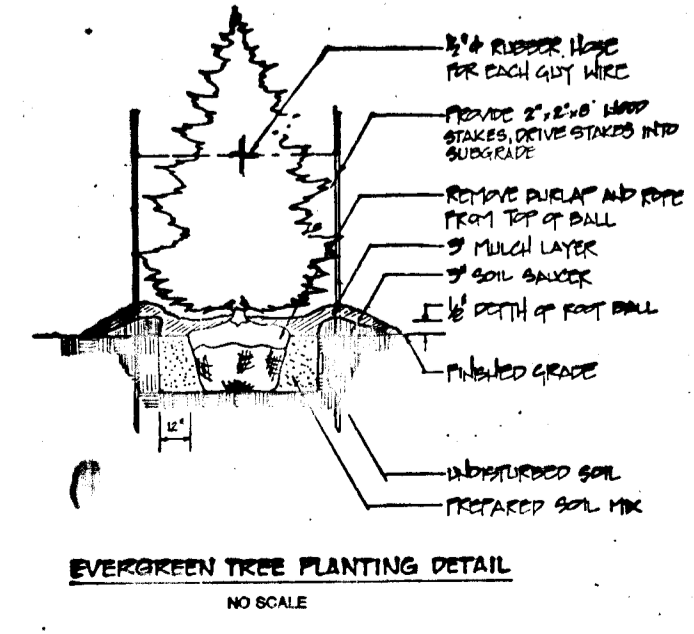
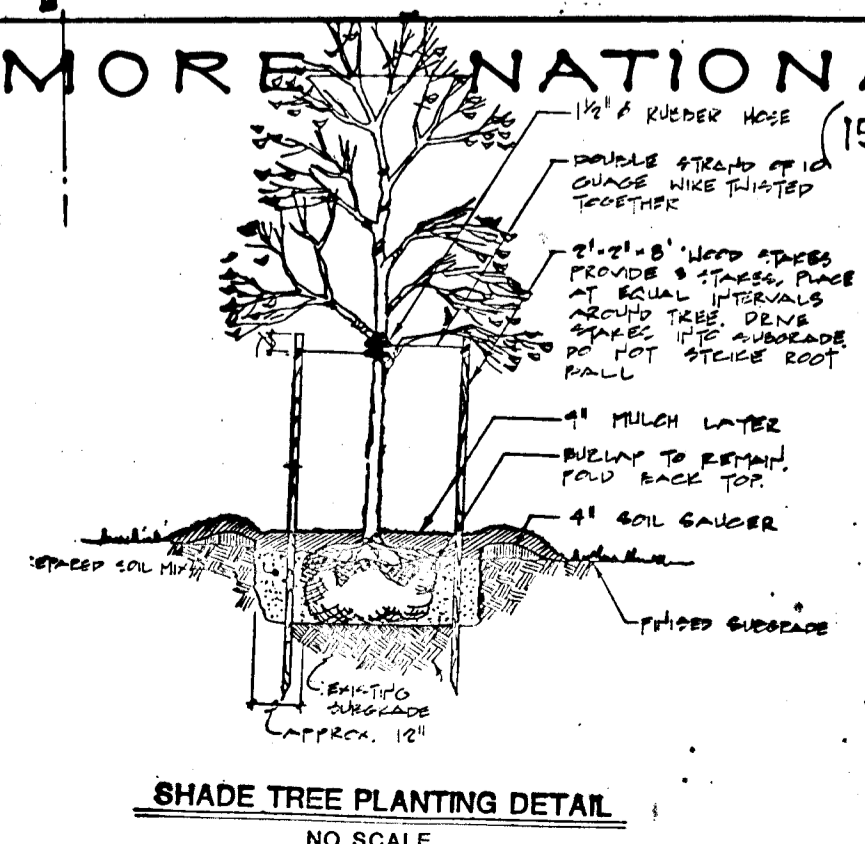
No.	Describe	Date
1	Revise Storm Drainage M2 & M-3	6-18-96



PLANT SCHEDULE

KEY	QTY.	PLANT NAME	SIZE	REMARKS
STREET TREES				
○	21	ACER RUBRUM "October Glory" October Glory Red Maple	2 1/2"-3" C 12'-14' HT	B & B
PERIMETER LANDSCAPE BUFFER				
⊕	14	QUERCUS PALUSTRIS Pin Oak	2 1/2"-3" C 12'-14' HT	B & B
STORM WATER MANAGEMENT AREA				
⊕	10	QUERCUS PALUSTRIS Pin Oak	2 1/2"-3" C 12'-14' HT	B & B
⊗	12	PINUS STROBUS White Pine	6'-8' HT	B & B
BEM PLANTING IN OPEN SPACE LOT 21				
⊗	20	ACER RUBRUM	1" CAL	RANDOM SPACING
⊗	20	PINUS STROBUS	2'-3' HT	RANDOM SPACING

- NOTES:**
- THIS PLAN IS FOR LANDSCAPE PURPOSES ONLY.
 - ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH THE BALT./WASH. LANDSCAPE SPECIFICATIONS OF L.C.A.M.W.
 - CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
 - FINAL LOCATION OF PLANT MATERIAL MAY VARY PER FINAL FIELD CONDITIONS AND/OR PLANTING LOCATION SPECIFICATIONS OF THE HOWARD COUNTY LANDSCAPE MANUAL.
 - A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE.



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Andrew M. Rankin 1/23/96
 CHIEF, BUREAU OF HIGHWAYS

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
Chris Summerville 1/30/96
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

John C. ... 1/23/96
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

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DESIGNED: MJP
 DRAWN: MJP
 CHECKED: JLS
 DATE: 12-27-95

STREET TREES AND LANDSCAPE BUFFER PLAN
LOTS 1-20 AND OPEN SPACE LOT 21
BRICKHOUSE ON THE PIKE
 TAX MAP 24, PARCEL 810
 SECOND (2ND) ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE: 1" = 50'
 DRAWING: 10 of 10
 JOB NO: 05-112
 FILE NO: 05-112 P

1779