

TIPTON DRIVE
LOCAL ROAD (DESIGN SPEED 30 MPH)
PLAN
SCALE: 1"=50'

P-2 PAVING SECTION
NOT TO SCALE

1 1/2" BIT. CONC. SURFACE	OR	1 1/2" BIT. CONC. SURFACE
2 1/2" BIT. CONC. BASE		5" BIT. CONC. BASE

GRANULAR BASE ALTERNATE

1 1/2" BIT. CONC. SURFACE
2 1/2" BIT. CONC. BASE
6" GRADED AGGREGATE BASE (GAB)

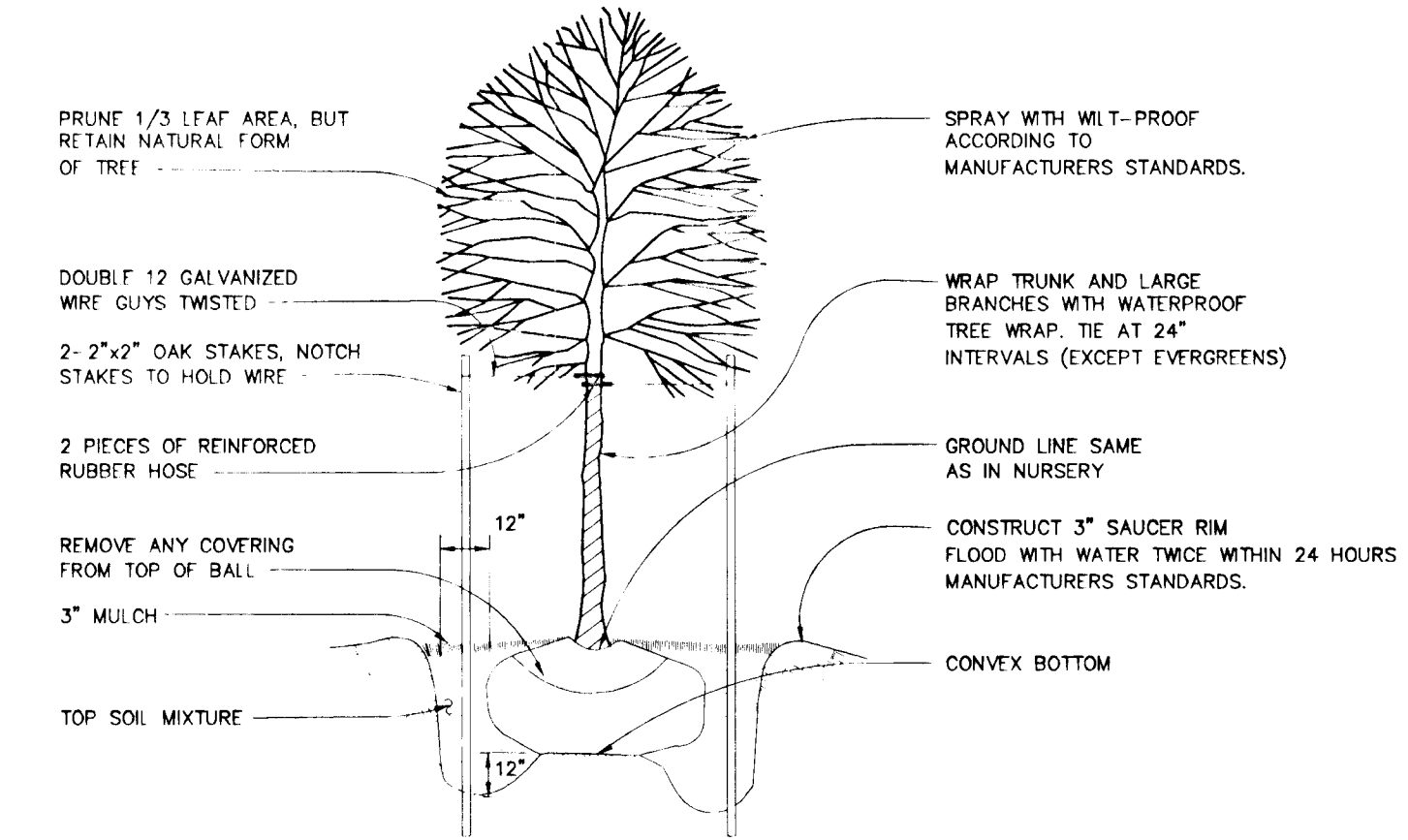
STREET TREES

DESCRIPTION	PERIMETER	NO. OF TREES	SYMBOL
STREET TREES 2-1/2" MIN. CALIPER	400 FT.	10	⊙

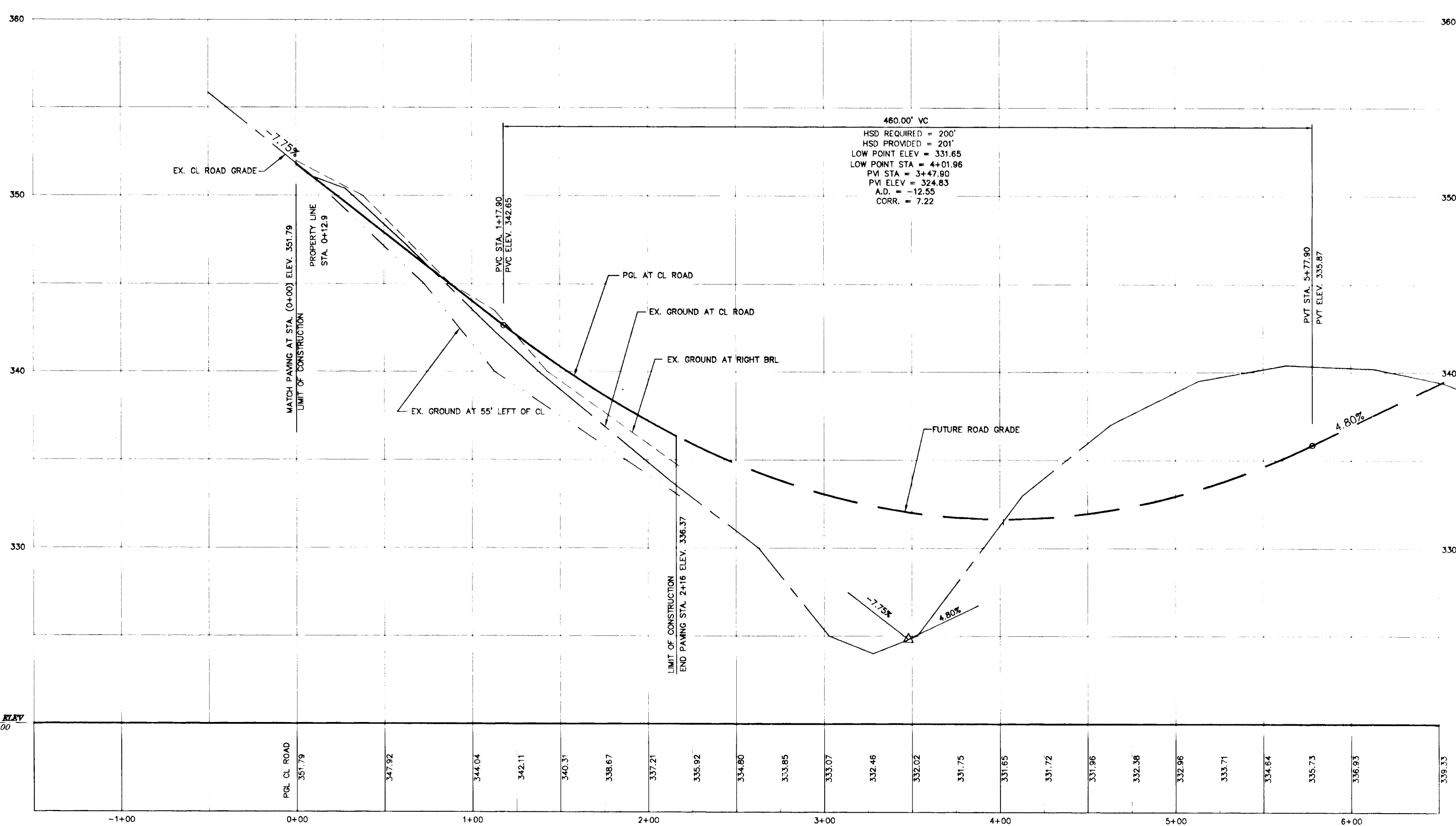
CENTERLINE CURVE DATA CHART

CURVE	DELTA	RADIUS	LENGTH	TANGENT
CURVE #1	43°45'00"	316.00'	241.29'	126.87'

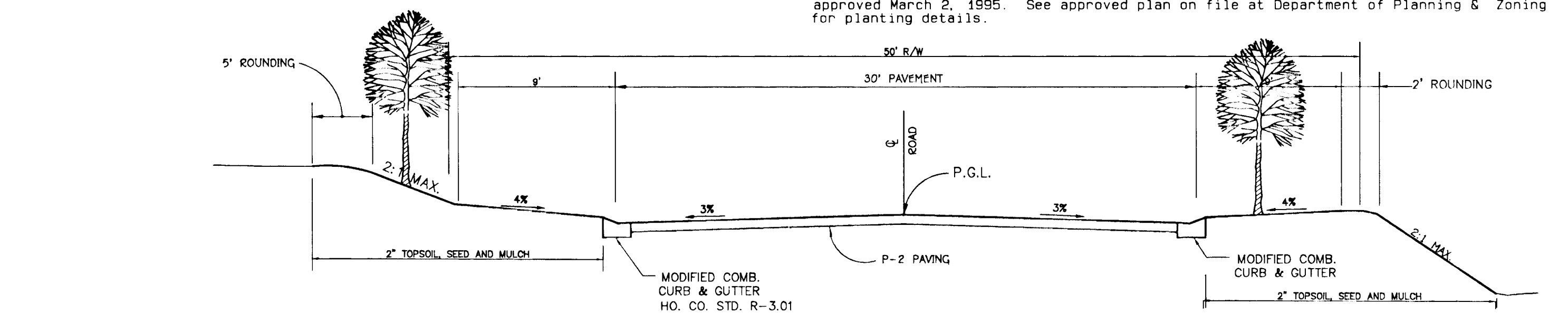
A 20' MINIMUM DISTANCE SHALL BE MAINTAINED BETWEEN ANY TREES LOCATED ALONG THE CURB LINE AND ANY STREET LIGHT.



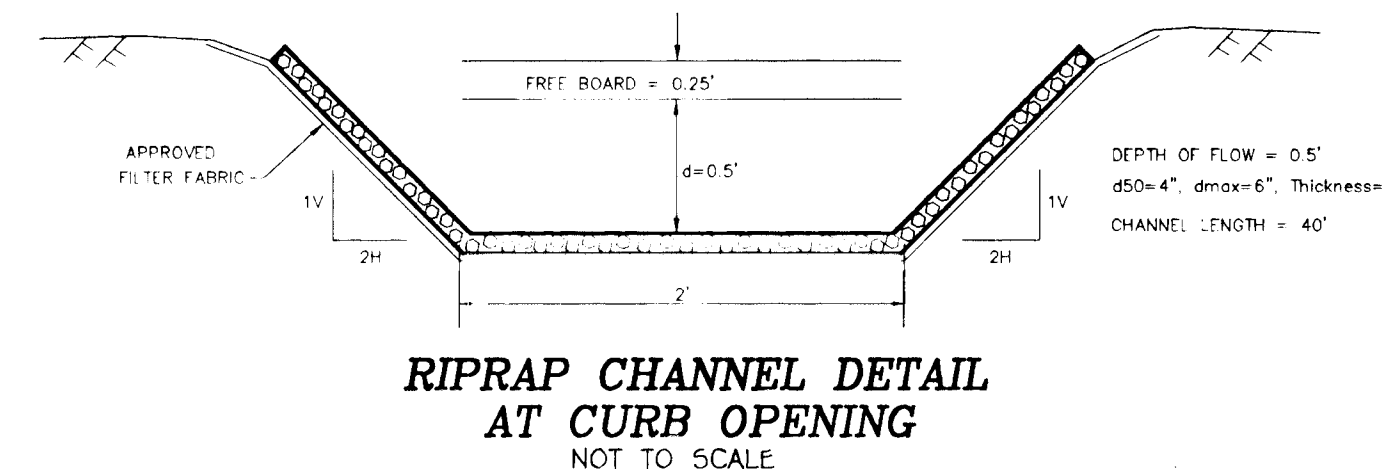
TREE PLANTING DETAIL
NOT TO SCALE



TIPTON DRIVE
LOCAL ROAD (DESIGN SPEED 30 MPH)
PROFILE
SCALE: 1"=50' HORIZ.
1"=5' VERT.



STA. (0+00 TO STA. 2+16) P-2 PAVING
MODIFIED ROAD SECTION
HO. CO. DETAIL R-1.02
NOT TO SCALE



RIPRAP CHANNEL DETAIL AT CURB OPENING
NOT TO SCALE

SHEET INDEX

NO.	DESCRIPTION
1	ROAD PLAN, PROFILE, TYPICAL SECTION & DETAILS
2	GRADING, SEDIMENT CONTROL AND LANDSCAPE PLAN
3	SEDIMENT CONTROL NOTES AND DETAILS

NO.	DATE	REV. PER CO. COMMENTS & SUBMISSION FOR SIGNATURES
1	5/2/95	REV. PER CO. COMMENTS & SUBMISSION FOR SIGNATURES

TSA GROUP, INC.
planning • architecture • engineering
6460 Baltimore National Pike • Ellicott City, Maryland 21045 • (410) 485-8108

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Andrew M. Daniels 4/1/95
Rudolf Seppan 6-6-95
Gina Summary 6/12/95

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

OWNER: **TIPTON MANOR**
LOTS 1-4

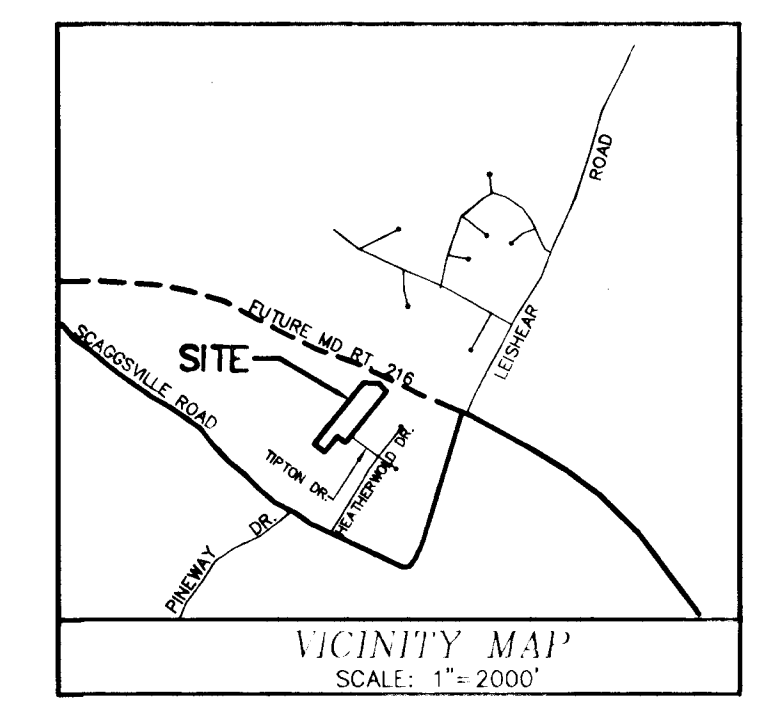
LOCATION: TAX MAP 46 - PARCEL 16
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: **ROAD PLAN, PROFILE, TYPICAL SECTION AND DETAILS**

DATE: MARCH 1995
MAY, 1995

PROJECT NO. 0615

DES: JVP DRN: JVP CHK: CAM SCALE: AS SHOWN DRAWING 1 OF 3



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/Construction Inspection Division at (410) 313-1880 at least 24 hours prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work.
- Project Background:
Location: Tax Map 46 - Parcel 15
Zoning: R-20
Total Site Area: 4.47 Ac.
Number of Proposed Lots: 4
Date Preliminary Plan Approved: March 2, 1995
DPZ Reference #: SP-95-03
- Traffic control devices, markings, and signing shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). All street and regulatory signs shall be in place prior to the placement of any asphalt.
- Topography taken from Howard County 200 scale top maps, supplemented by field run topography by TSA Group, Inc. dated 12/14/1994. Contours at 2' intervals in road construction areas.
- Howard County monuments (Nad83) 46B8 and 46E3 used for horizontal control, and Howard County (Nad 27) monument 2039001 is used for vertical datum.
- Light poles and fixtures for street lights shall be in accordance with latest Howard County Design Manual, Volume III, Roads and Bridges.
- Water and Sewer for this subdivision is public. Drainage area is Little Patuxent. Contract No. 24-3396-D
- Stormwater Management (Quantity Control) for this subdivision is provided by fee-in-lieu. Water Quality is provided by infiltration and is a private facility.
- Existing utilities were located by record drawings and field run survey by TSA Group, Inc.
- Wetlands Delineation Study compiled by M.A. Dircks & Co. inc. dated 14th. October 1994 and approved March 2, 1995.
- Traffic Study is not required for this project.
- Noise Study compiled by T.S.A. Group, inc. dated January 9, 1995 & approved March 2, 1995.
- Geotechnical Report compiled by Hillis-Carnes Assoc. Inc. dated January 4, 1994 and approved March 2, 1995.
- Forest Conservation Plan prepared by M.A. Dircks & Co., Inc. dated October 14, 1994 and approved March 2, 1995. See approved plan on file at Department of Planning & Zoning for planting details.

1736

PERIMETER LANDSCAPE SCHEDULE A			
CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES	SYMBOL
LANDSCAPE TYPE	B**	A	
PERIMETER	274.72 FT.	1862 FT.	
CREDIT FOR EX. VEGETATION	274.72 FT.	520 FT.	
NO. OF SHADE TREES REQUIRED	0	22	
NO. OF SHADE TREES PROVIDED	0	22	○

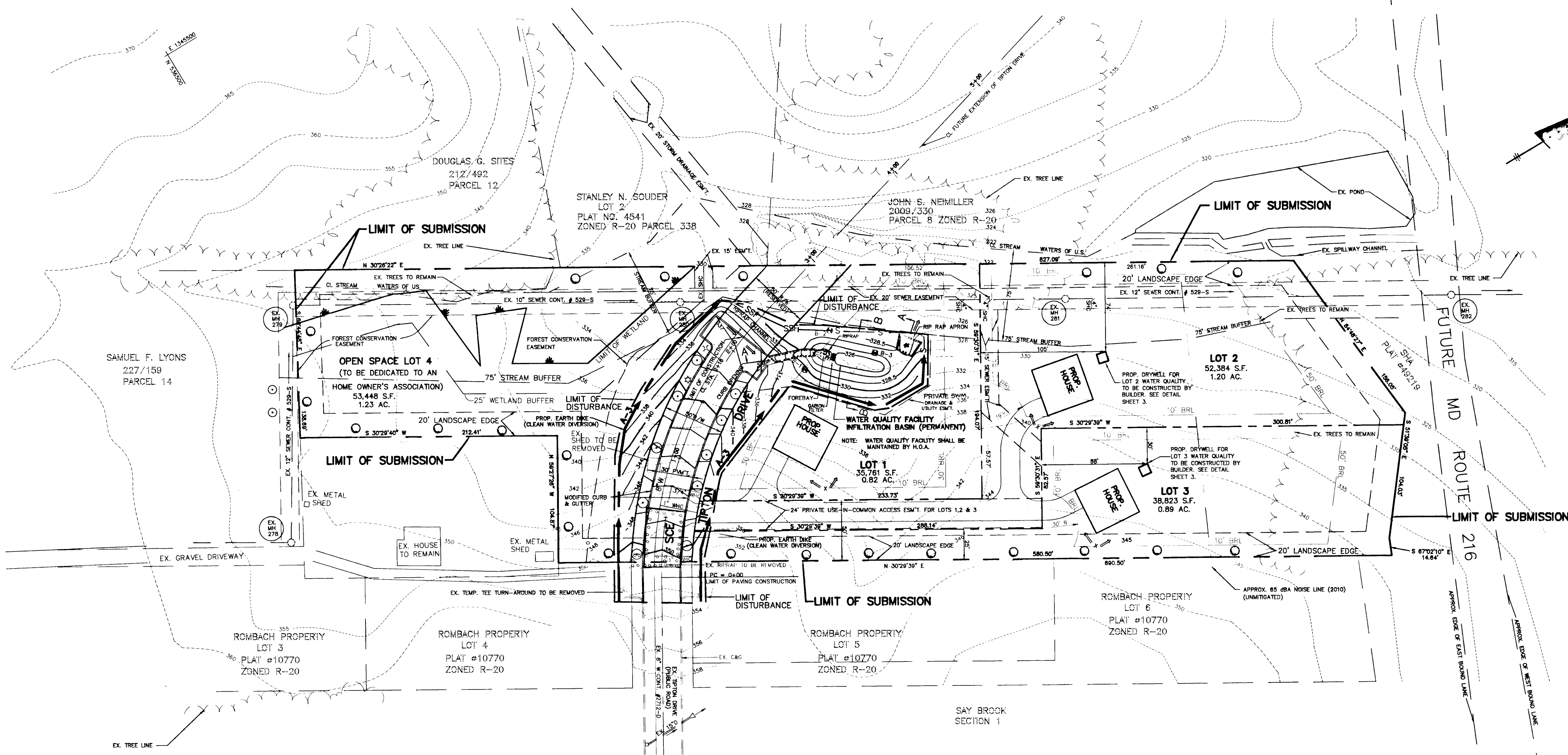
- NOTES:
 1. LANDSCAPING INDICATED SHALL BE PROVIDED BY DEVELOPER.
 2. ** DENOTES TYPE "B" BUFFER APPLIES TO THE REAR OF LOTS 2 & 3.

STREET TREES			
DESCRIPTION	PERIMETER	NO. OF TREES	SYMBOL
STREET TREES 2-1/2" MIN. CALIPER	400 FT.	10	○

A 20' MINIMUM DISTANCE SHALL BE MAINTAINED BETWEEN ANY TREES LOCATED ALONG THE CURB LINE AND ANY STREET LIGHT.

LEGEND:

- 30'x50' STABILIZED CONSTRUCTION ENTRANCE
- EARTH DIKE
- SILT FENCE
- SUPER SILT FENCE
- LIMIT OF DISTURBANCE
- PROPOSED CONTOUR
- EXISTING CONTOUR
- STREAM
- 75' STREAM BUFFER
- LIMIT OF WETLANDS
- 25' WETLAND BUFFER



OPERATION AND MAINTENANCE SCHEDULE OF THE HOME OWNERS ASSOCIATION MAINTAINED INFILTRATION BASIN

- REMOVE SILT WHEN ACCUMULATION EXCEEDS 1/2 INCH.
- REMOVE ACCUMULATED PAPER, TRASH AND DEBRIS EVERY SIX MONTHS OR AS NECESSARY.
- VEGETATION GROWING IN BASIN IS NOT ALLOWED TO EXCEED 18 INCHES IN HEIGHT.
- CORRECTIVE MAINTENANCE REQUIRED ANY TIME DRAW-DOWN DOES NOT OCCUR WITHIN 36 HOURS AFTER SEDIMENTS AND DEBRIS ARE REMOVED.

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 22 LANDSCAPE TREES, IN THE AMOUNT OF \$2,200.00, IS PART OF THE DEVELOPER'S AGREEMENT.

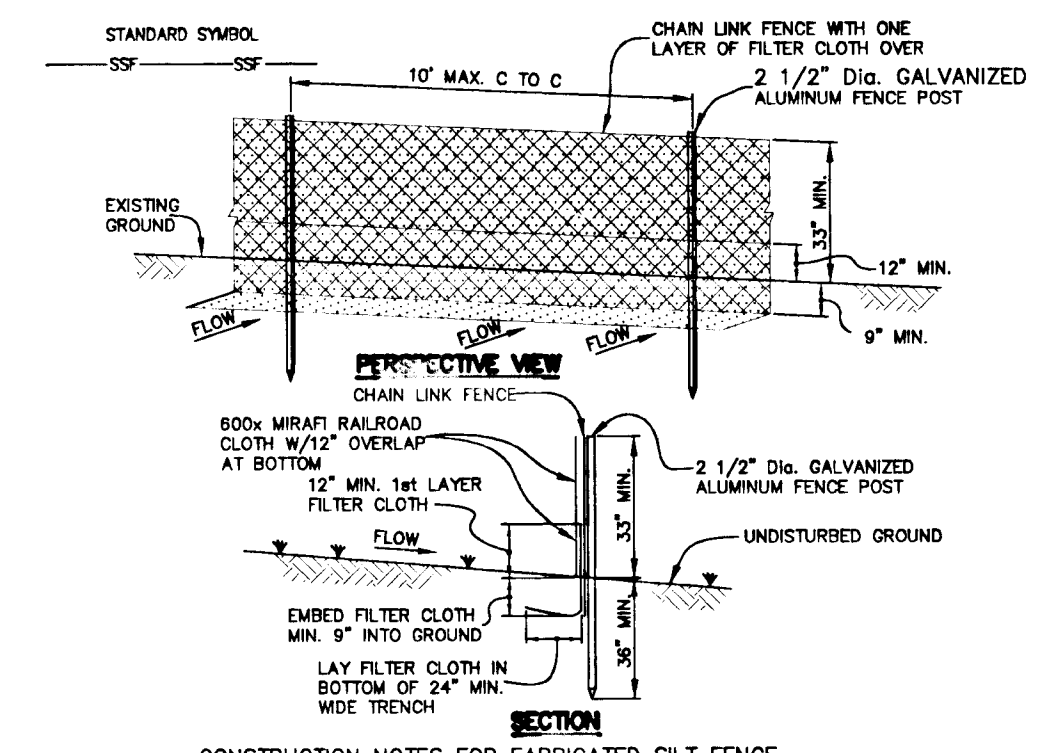
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Chad Demme 6/1/95
Andrew M. Daniels 6-6-95
Paul J. Spon 6/8/95

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
Gina Murray 6/12/95

NO.	DATE	REV. PER CO. COMMENTS & SUBMISSION FOR SIGNATURES
1	5/2/95	REV. PER CO. COMMENTS & SUBMISSION FOR SIGNATURES
		REVISION

TSA GROUP, INC. *engineering*
 planning • architecture • research
 8640 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 486-8106

OWNER/DEVELOPER:	PROJECT:
SAMUEL LYONS 10688 SCAGGSVILLE ROAD LAUREL, MARYLAND 20723	TIPTON MANOR LOTS 1-4
LOCATION:	TITLE:
TAX MAP 46-PARCEL 15 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	GRADING, SEDIMENT CONTROL AND LANDSCAPE PLAN
DATE:	PROJECT NO. 0615
MARCH 1995 MAY, 1995	DRAWING 2 OF 3
DES: JVP	DRN: JVP
CHK.: CAM	SCALE: AS SHOWN



- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE
- Chain link fence to be fastened securely to fence post with wire ties or staples.
 - Filter cloth to be fastened securely to chain link fence with ties spaced every 24" on top and 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 silt buildups removed when "bulges" develop in the silt fence. (Approximate cost = \$9.25/linear foot installed.)

SUPER SILT FENCE DETAIL
 NOT TO SCALE

PLAN
 SCALE: 1"=50'

APPROVED: REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Patricia Engle 5/23/95

APPROVED: THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
John R. Robitson 5/23/95

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.
 JOHN M. ELORRAGA PE No. 16891 DATE 5/16/95

CERTIFY MEANS TO STATE OR DECLARE A PROFESSIONAL OPINION BASED UPON ONSITE INSPECTIONS AND MATERIAL TESTS WHICH ARE CONDUCTED DURING CONSTRUCTION. THE ONSITE INSPECTIONS AND MATERIAL TESTS ARE THOSE INSPECTIONS AND TESTS DEEMED SUFFICIENT AND APPROPRIATE BY COMMONLY ACCEPTED ENGINEERING STANDARDS. CERTIFY DOES NOT MEAN OR IMPLY A GUARANTEE BY THE ENGINEER NOR DOES AN ENGINEER'S CERTIFICATION RELIEVE ANY OTHER PARTY FROM MEETING REQUIREMENTS IMPOSED BY CONTRACT, EMPLOYMENT, OR OTHER MEANS, INCLUDING MEETING COMMONLY ACCEPTED INDUSTRY PRACTICES.

DEVELOPER'S CERTIFICATE
 I/We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this 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 onsite inspection by the Howard County Soil Conservation District or their authorized agents, as are deemed necessary.
Samuel F. Lyons 5/17/95

ENGINEER'S CERTIFICATE
 I hereby certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District.
John M. Elorraga 5/16/95

1736

PERMANENT SEEDING NOTES

Apply to graded or cleared area 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 on the following schedules.

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sf).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sf) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the periods March 1 through April 30 and August 1 through October 15, seed with 60 lbs per acre (1.4 lbs/1000 sf) of Kentucky 31 Tall Fescue. For the period May 1 through July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (0.05 lbs/1000 sf) of Weeping Lovegrass. During the period of October 16 through February 28, protect site by Option 1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option 2) use sod. Option 3) seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sf) 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 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sf) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseeding.

TEMPORARY SEEDING NOTES

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

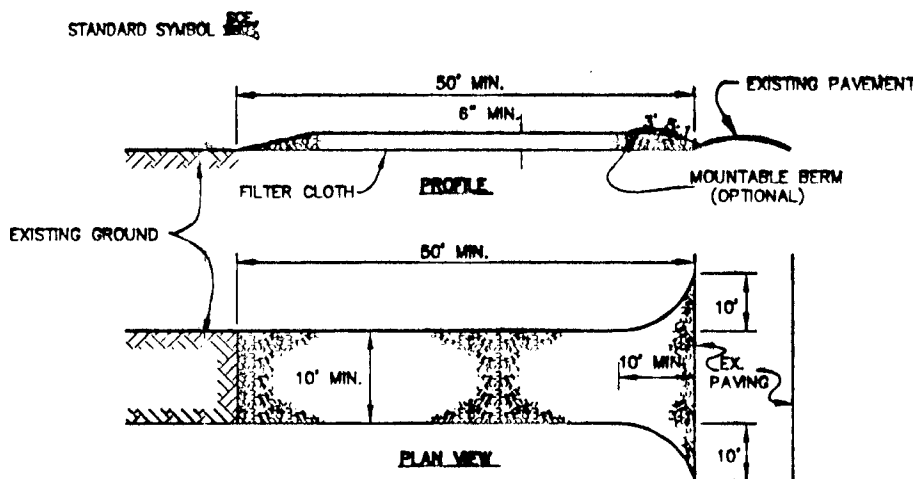
Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding. (If not previously loosened)

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

Seeding: For periods March 1 through April 30 and from August 15 through November 15, seed with 2-1/2 bushel per acre of annual rye (3.2 lbs/1000 sf). For the period May 1 through August 14, seed with 3 lbs per acre of Weeping Lovegrass (0.07 lbs/1000 sf). For the period November 16 through 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.

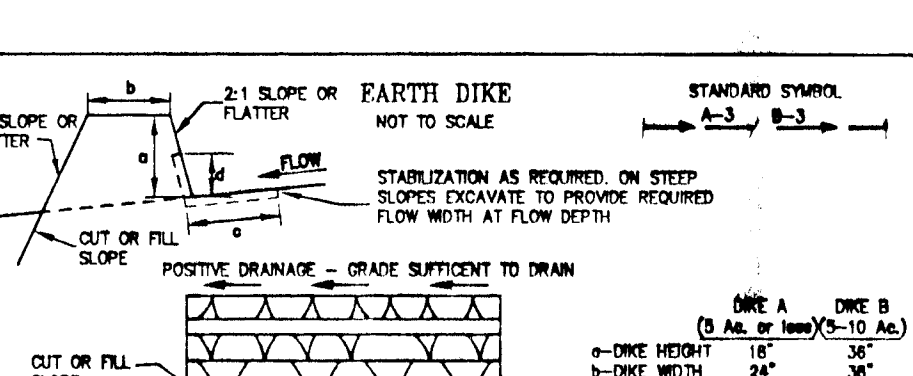
Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sf) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348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

Refer to the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for rate and methods not covered.



1. Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. 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 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Warning - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-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.
9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



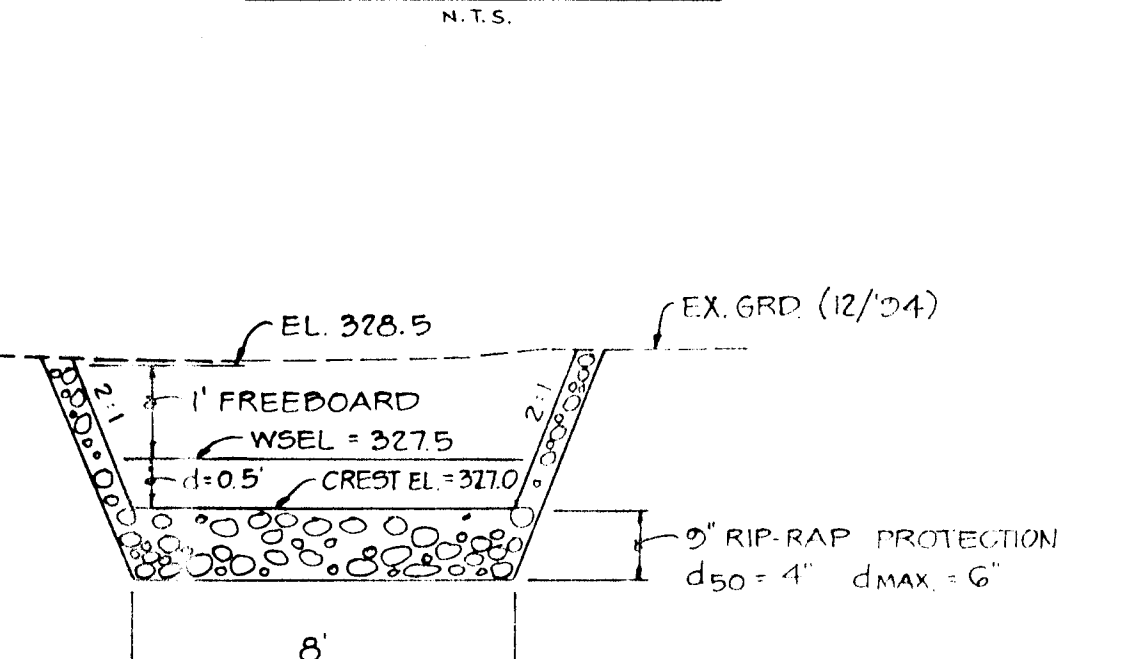
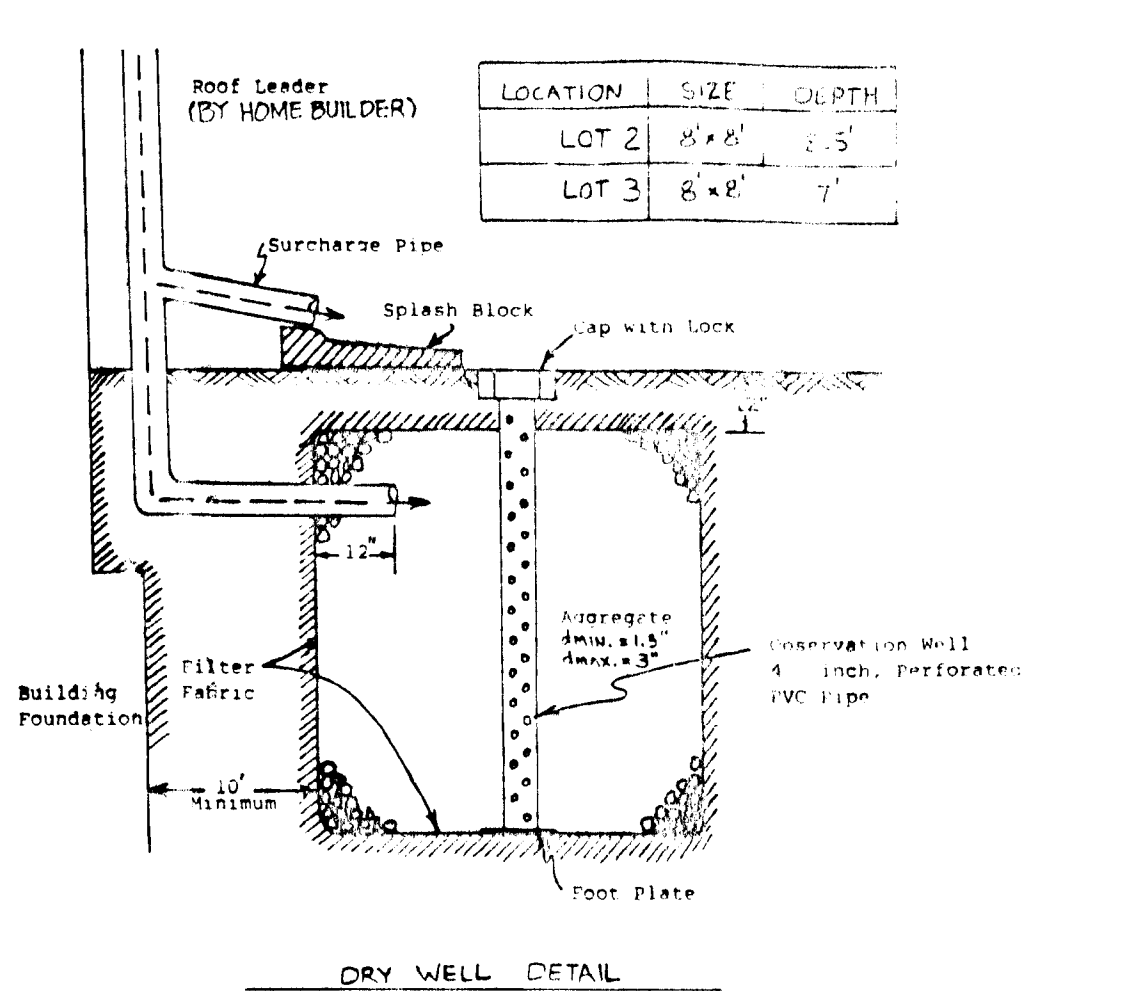
1. All dikes shall be constructed by earthmoving equipment.
2. All dikes shall have positive drainage to an outlet.
3. Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction traffic.
4. Field location should be adjusted as needed to utilize a stabilized safe outlet.
5. Earth dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment 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.
6. Stabilization shall be: (A) in accordance with standard specifications for seed and straw mulch or straw mulch if not in seeding season; (B) flow channel as per the chart below.

TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	3-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED WITH JUTE, OR EXCLUSION; 500; 2" STONE	SEED WITH JUTE, OR EXCLUSION; 500; 2" STONE
3	5.1-8.0%	SEED WITH STRAW, OR SOOD; 2" STONE	SEED WITH STRAW, OR SOOD; 2" STONE
4	8.1-20%	UNED RIP-RAP 4-6"	UNED RIP-RAP 4-6"

A. Stone to be 2 inch stone, or recycled concrete equivalent, in a layer of at least 3 inches in thickness and be pressed into the soil with construction equipment.
B. Rip-rap to be 4-8 inches in a layer of at least 8 inches in thickness and pressed into the soil.
C. Approved equivalents can be substituted for any of the above materials.
7. Periodic inspection and required maintenance must be provided after each rain event.

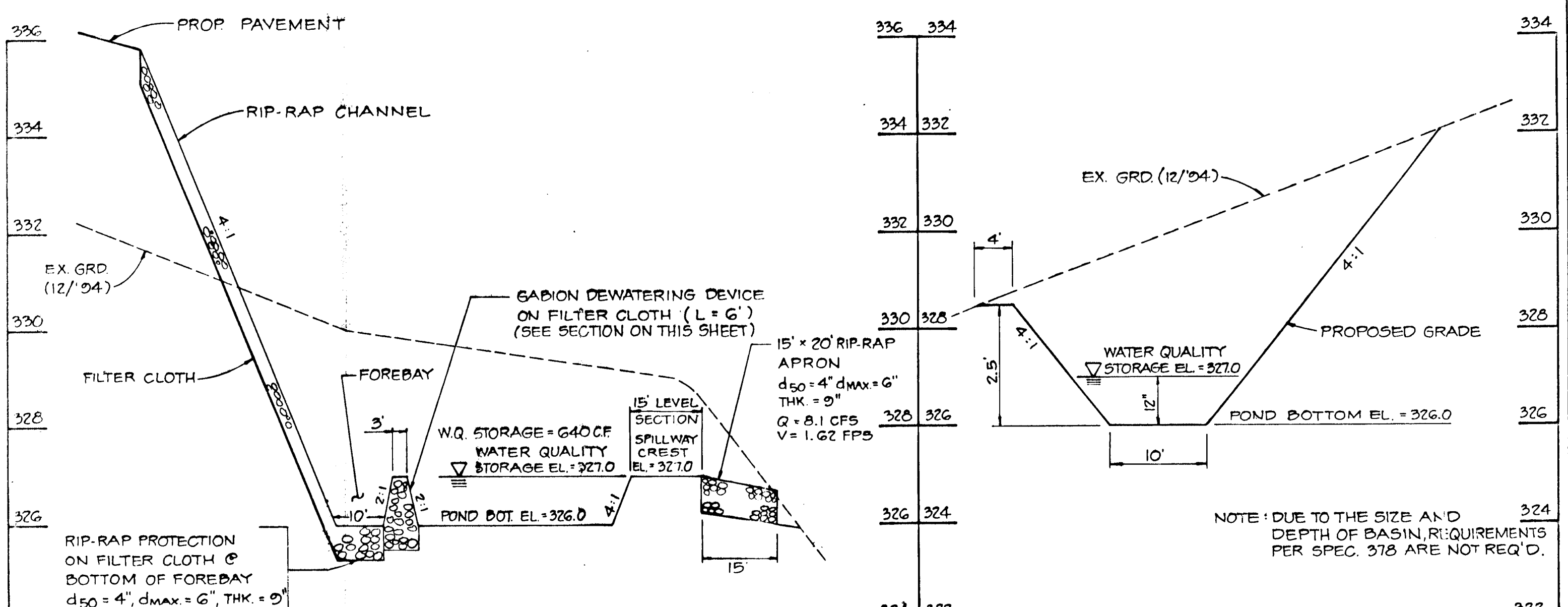
SEDIMENT CONTROL NOTES

1. A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division 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 most current Maryland Standards and Specifications for Soil Erosion and Sediment Control, and revisions thereto.
3. Following initial soil disturbances or redisturbances, 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 calendar days as to all other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the "Howard County Design Manual, Storm Drainage".
5. All disturbed areas must be stabilized within the time period specified above in accordance with the "1991 Maryland Standards and Specifications for Soil Erosion and Sediment Control" for Permanent Seedings (Sec. 51), Sod (Sec. 54), Temporary Seeding (Sec. 50) and Mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
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: 4.47 acres
Area to be Disturbed: 0.50 acres
Area to be roofed or paved: 0.17 acres
Area to be vegetatively stabilized: 0.33 acres
Total Cut: 2700 cu. yd.
Total Fill: 2300 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 controls must be provided, if deemed necessary by the Howard County 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 agencies may not be authorized until this initial approval by the inspection agency is made.
11. Trenches for the construction of utilities is limited to three pipe lines or that which can be back filled and stabilized within one working day, which will be shorter.
12. Quantities and estimates shown are for sediment control purposes only. Contractor shall prepare his/her own quantity estimates to his/her satisfaction.



SPILLWAY SECTION AT WATER QUALITY INFILTRATION BASIN
N.T.S.

GABION DEWATERING FILTER DEVICE SECTION
N.T.S.



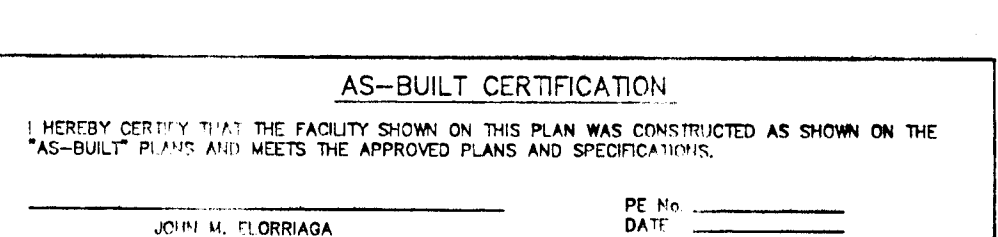
SECTION A-A
SECTION B-B
WATER QUALITY INFILTRATION BASIN
SCALE: 1" = 20' HORIZ.
1" = 2' VERT.

NOTE: DUE TO THE SIZE AND DEPTH OF BASIN, REQUIREMENTS PER SPEC. 318 ARE NOT REQ'D.

ELEV.	SOIL DESCRIPTION	STRA. DEPTH	SAMPLE NO.	BORING & SAMPLING NOTES	ELEV.	SOIL DESCRIPTION	STRA. DEPTH	SAMPLE NO.	BORING & SAMPLING NOTES
328.8	Surface	0.0	1	1'	328.8	Surface	0.0	1	1'
328.7	Brown, med. to dark micaceous sandy silty clay (MS) (USDA: Loam)	1.0	1	1'	328.7	Brown, med. to dark micaceous sandy silty clay (MS) (USDA: Loam)	1.0	1	1'
328.5	Brown, med. to dark micaceous sandy silty sand (SM) (USDA: Loamy Sand)	2.0	1	1'	328.5	Brown, med. to dark micaceous sandy silty sand (SM) (USDA: Loamy Sand)	2.0	1	1'
328.3	Brown, med. to dark micaceous sandy silty sand (SM) (USDA: Loamy Sand)	3.0	1	1'	328.3	Brown, med. to dark micaceous sandy silty sand (SM) (USDA: Loamy Sand)	3.0	1	1'
328.1	Brown, med. to dark micaceous sandy silty sand (SM) (USDA: Loamy Sand)	4.0	1	1'	328.1	Brown, med. to dark micaceous sandy silty sand (SM) (USDA: Loamy Sand)	4.0	1	1'
327.9	Brown, med. to dark micaceous sandy silty sand (SM) (USDA: Loamy Sand)	5.0	1	1'	327.9	Brown, med. to dark micaceous sandy silty sand (SM) (USDA: Loamy Sand)	5.0	1	1'
327.7	Brown, med. to dark micaceous sandy silty sand (SM) (USDA: Loamy Sand)	6.0	1	1'	327.7	Brown, med. to dark micaceous sandy silty sand (SM) (USDA: Loamy Sand)	6.0	1	1'
327.5	Brown, med. to dark micaceous sandy silty sand (SM) (USDA: Loamy Sand)	7.0	1	1'	327.5	Brown, med. to dark micaceous sandy silty sand (SM) (USDA: Loamy Sand)	7.0	1	1'
327.3	Brown, med. to dark micaceous sandy silty sand (SM) (USDA: Loamy Sand)	8.0	1	1'	327.3	Brown, med. to dark micaceous sandy silty sand (SM) (USDA: Loamy Sand)	8.0	1	1'
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1. OBTAIN GRADING PERMIT.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, EARTHDIKES. (DAY 1-4)
3. CONSTRUCT WATER QUALITY BASIN, RIP RAP APRON. DO NOT CONSTRUCT FOREBAY AT THIS TIME. (DAY 5-8)
4. REMOVE EXISTING TEMPORARY TIE TURN-AROUND, EXISTING SEED, EXISTING RIP RAP, AND GRADE ROAD TO THE SUBBASE. (DAY 9-15)
5. CONSTRUCT WATER MAIN AND SANITARY SEWER ROSE CONNECTIONS. (16-20)
6. CONSTRUCT MODIFIED COMBINATION CURBS AND GUTTER AND RIP RAP CHANNEL AT CURB OPENING. (DAY 21-25)
7. CONSTRUCT PAVING. (DAY 26-30)
8. COMPLETE FINAL GRADING OF SITE AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (DAY 31-32)
9. INSTALL STREET TREES. (DAY 33)
10. CONSTRUCT FOREBAY. (DAY 34)
11. UPON APPROVAL OF HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES, FINAL GRADE AND PERMANENTLY STABILIZE AS NEEDED. (DAY 35)

SILT FENCE DETAIL
NOT TO SCALE



1. Woven wire fence to be fastened securely to fence posts with wire ties or staples.
2. Filter cloth to be fastened securely to woven wire fence with the spaced every 24" at top and mid section.
3. When two sections of filter cloth adjoin each other they shall be overlapped by six inches and folded.
4. Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.

JOHN M. FLORRAGA
PE No. _____
DATE: 3/21/95

ENGINEER'S CERTIFICATE

I hereby certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District.

JOHN M. FLORRAGA
DATE: 6/2/95

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

REMOVED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

PATRICIA ENGEL
DATE: 5/23/95

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

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

JOHN R. ROBERTSON
DATE: 5/23/95

TSA GROUP, INC.
planning • architecture • engineering
6400 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 488-8108

OWNER/DEVELOPER:	PROJECT:
SAMUEL LYONS 10888 SCAGGSVILLE ROAD LAUREL, MARYLAND 20707	TIPTON MANOR LOTS 1-4
LOCATION:	TAX MAP 48-PARCEL 15 8th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE:	SEDIMENT CONTROL NOTES & DETAILS AND WATER QUALITY DETAILS
DATE:	MARCH 1995 MAY 1995
PROJECT NO. 0615	
DES: JVP	DRN: JVP
CHK: CAM	SCALE: AS SHOWN
	DRAWING 3 OF 3

1736