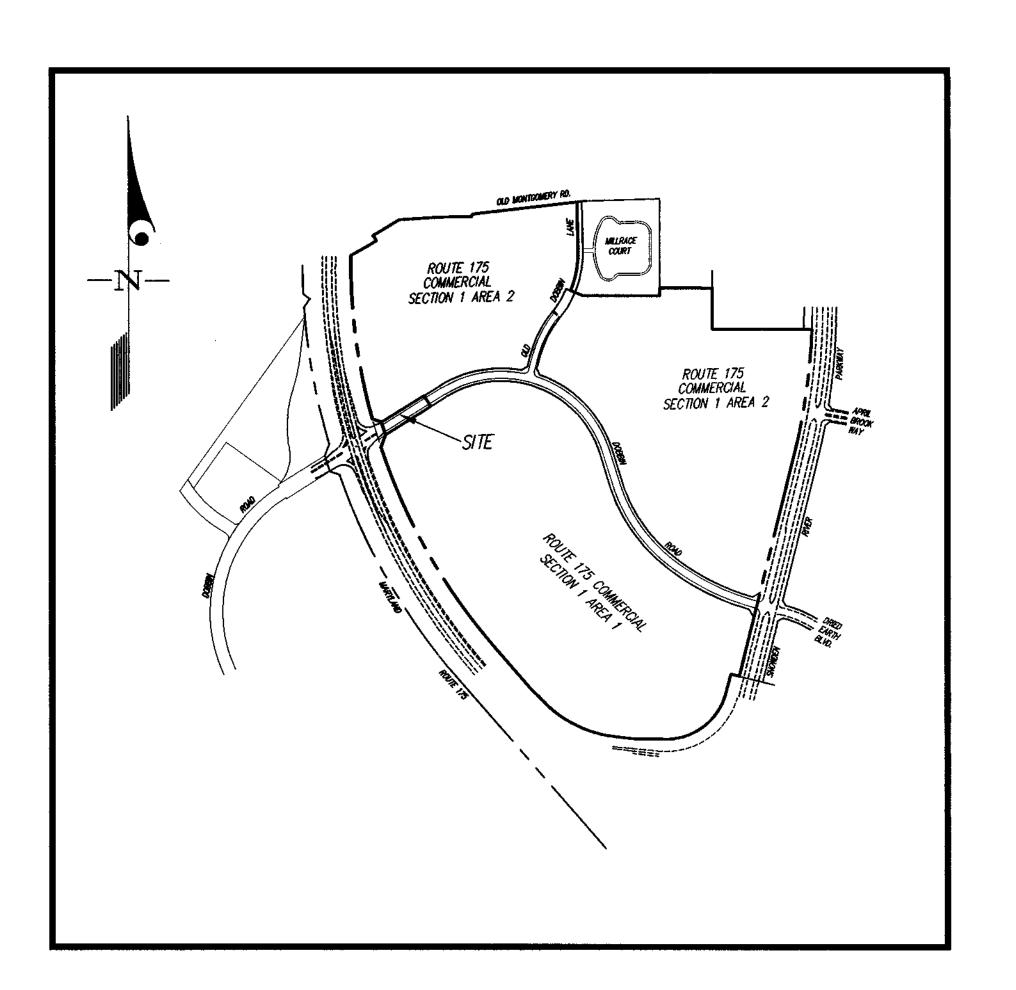
# CONSTRUCTION PLAN FOR

# DOBBIN ROAD IMPROVEMENTS

STA. 79 + 00 TO STA. 81 + 22.98



INDEX OF SHEETS

COVER SHEET PLAN & PROFILE GRADING, SEDIMENT CONTROL & STORM DRAIN PROFILE OFFSITE SEDIMENT CONTROL PLAN & DETAILS. (W & S CONTR. #24-3773-D) SIGNING & STRIPING PLAN & DETAILS

# 2542002

VICINITY MAP SCALE: 1"=2000'

#### LEGEND

⊶  ¬  ¬  ¬  ¬  ¬  ¬  ¬  ¬  ¬  ¬  ¬  ¬  ¬
PROP. TOP OF CURB ELEVATION
EX. 12*WEXISTING WATER MAIN
EX. 18"SDEXISTING STORM DRAIN
= $=$ $=$ $=$ EXIST. CURB/CURB & GUTTER
PROP. CURB & GUTTER
EXISTING PAVING
PROPOSED PAVING
396EXISTING CONTOUR
——96 —PROPOSED CONTOUR
(+)EXISTING STREET TREES
(+)PROPOSED STREET TREES

← ★ ★ .....EXISTING STREET LIGHT

#### BENCHMARK DESCRIPTION

STATION 2542001 (CONCRETE MONUMENT) ELEV. 426.971 (FOR VERTICAL CONTROL ONLY) STATION IS LOCATED ON B.G.& E. TRANSMISSION LINES 1060± S.W. OF DOBBIN ROAD

#### BENCHMARK DESCRIPTION

STATION 2542002 (CONCRETE MONUMENT) ELEV. 363.638 (FOR VERTICAL CONTROL ONLY) STATION IS LOCATED 1000'± WEST OF RTE. 175 ON TRANSMISSION LINE @ G.E. TOWER 19-E.

#### BENCHMARK DESCRIPTION

STATION 37DR (1/2 REBAR) N.169881.1794, É416566.7155 (FOR HORIZONTAL CONTROL ONLY) STATION IS LOCATED 0.45± MILES NORTH OF RTE. 175 AND 46'± EAST OF THE EAST CURB OF SNOWDEN RIVER PKWY.

#### BENCHMARK DESCRIPTION

STATION 361A (CONCRETE MONUMENT) N.169205.9263, E. 416313.5119 (FOR HORIZONTAL CONTROL ONLY) STATION IS LOCATED @ THE SOUTHEAST CORNER OF THE INTERSECTION OF SNOWDEN RIVER PARKWAY AND RTE. 175 3'± FROM CURB AND 5.7± FROM GUARDRAIL END.

## KEY MAP

SCALE : 1" = 600'

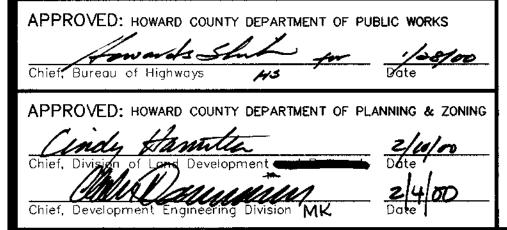


GLOCOST SHANABERGER AROF. L.S. # 10849

> SHANABERGER & LANE 8726 TOWN & COUNTRY BLVD. SUITE 201 **ELLICOTT CITY, MARYLAND 21043**

COVER SHEET PREPARED FOR: G. L. W. FILE No. SCALE GUTSCHICK LITTLE & WEBER, P.A. 95-003 THE HOWARD RESEARCH & DEVELOPMENT CORP. AS SHOWN Route 175 Commercial Jew Town THE ROUSE BUILDING CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS Section | Area 2 10275 LITTLE PATUXENT PARKWAY TAX MAP No. DATE SHEET 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866 COLUMBIA, MD. 21044 Phane 235 How., 1999 1 OF 5 TEL: (301) 421-4024 NO. VA.: (301) 989-2524 BALT: (410) 880-1820 FAX: (301) 421-4186 DES. DRN: CHK. (410)992-6027 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND DATE REVISION APP'R. BY

F-00.20



GENERAL NOTES

THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY

SEE COUNTY FILES NO.'s: S 99-05, FDP 235 & WP 99-117, PB 327, WP 90-41, WP 00-24. Council Renolution 120-1999 Dobbin Rd File No.'o: OP 95-94, FDP 220-4-1.

HORIZONTAL AND VERTICAL CONTROL BASED ON HOWARD COUNTY CONTROL

BEST AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THS EXACT LOCATION AND ELEVATION OF THE MAINS BY DIGGING TEST PITS BY HAND AT ALL CROSSINGS WELL IN ADVANCE OF CONSTRUCTION, ANY DISCREPANCIES

7. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM

8. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY AND MSHA STANDARDS AND

9. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS /BUREAU OF CONSTRUCTION INSPECTION AT 1 (410) 313 - 1880 AT LEAST FIVE (5)

10. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THE PLANS.

11. TYPES OF STORM DRAINS REFER TO THE STANDARD DETAILS OF HOWARD COUNTY

RIGHT - OF - WAYS LIMITS SHALL BE IN ACCORDANCE WITH "HOWARD COUNTY

STANDARDS AND SPECIFICATION FOR SOILS EROSION AND SEDIMENT CONTROL".

14. TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH

15. STREET TREES SHALL BE PLANTED A MINIMUM OF FIVE (5) FEET FROM STORM DRAIN.

10. Remaral/Madifications to the existing road bed for Old Montgomery Road will be indicated on the site Development Plan for Ercel A.

17. MDE Permit/Tracking Number: 2000012FP.

WATERLINE OR SEWER PIPE MANHOLES; ALSO A MINIMUM OF TWENTY (20) FEET

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

13. SEDIMENT CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH " 1994 MARYLAND

12. TRENCH COMPACTION FOR STORM DRAINS WITHIN ROADS AND STREET

1-800-257-7777

729-9976

313-4900

393-3553 850-4620 & 787-9068

MUST BE COMMUNICATED TO THE ENGINEER AT ONCE.

STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.

4. TOPOGRAPHY SHOWN HAS A 2' CONTOUR INTERVAL AND WAS

PHOTOGRAPHED BY MAPPING ASSOCIATES, INC. IN 1989.

EXISTING SPOT ELEVATIONS SURVEYED BY GLW.

PUBLIC WATER AND SEWER TO BE UTILIZED. SITE IS IN METROPOLITAN DISTRICT.

STATIONS 37DR AND 36 IA

SPECIFICATIONS, IF APPLICABLE.

BELL ATLANTIC COMPANY

ANY ASPHALT.

DAYS PRIOR TO THE START OF WORK.

HOWARD COUNTY BUREAU OF UTILITIES

DESIGN MANUAL", VOL. IV, STANDARD G-2.01.

AT&T CABLE LOCATION DIVISION

BALTIMORE GAS & ELECTRIC CO.

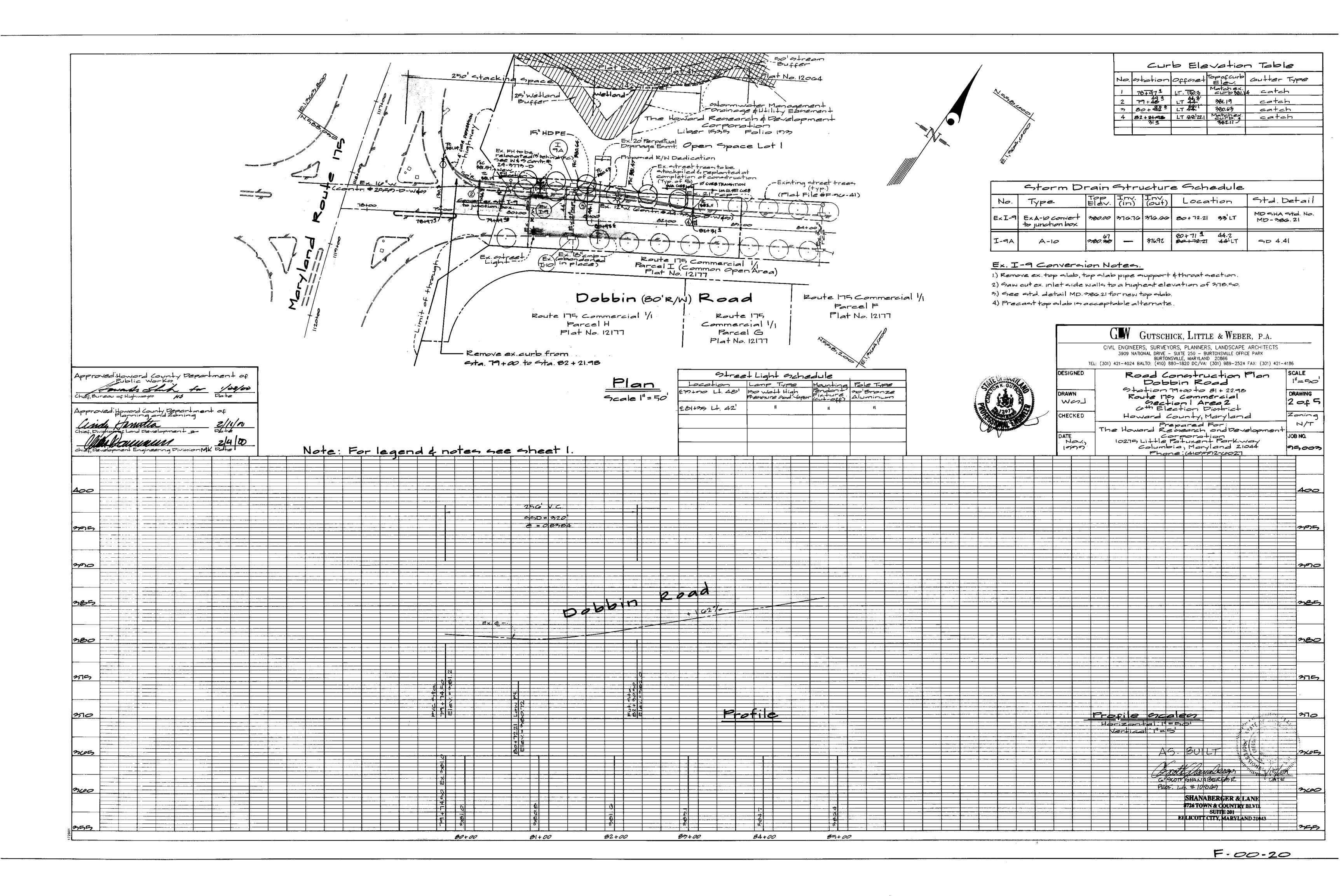
LOCATION: DOBBIN ROAD @ MD. RTE.175

PROJECT BACKGROUND:

ELECTION DISTRICT: 6

TAX MAP: 36

ZONING: N/A



#### PERMANENT SEEDING NOTES

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

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding (unless 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 square feet) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 unreaform fertilizer (9 lbs/1000 sq ft).
- 2) Acceptable Apply 2 tons per ocre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tans 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 tans per acre (70 to 90 lbs/1000 sq ft) of unrotted small arain 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 ocre (8 gal/1000 sq ft) for anchoring.

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

#### TEMPORARY SEEDING NOTES

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

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding (unless 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 October 15, seed with 2-1/2 bushel per ocre 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 oure (70 to 90 lbs/1000 sq. ft) of unrotted, weed-free, small grain straw immediately after seeding. Ancher mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 gal per ocre (8 gal/1000 sq ft) for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

#### SEDIMENT CONTROL NOTES

- 1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (410) 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 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3. Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes and 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 shown must be fenced and warning signs posted ground their perimeter in accordance with Val. 1. Chapter 12. of the HOWARD COUNTY DESIGN MANUAL Storm
- 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, sod, temporary seeding and mulching (Sec. G). Temporary stabilization, with mulch alone, can only be done when recommended seeding dates do not allow for proper
- 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.

germination and establishment of grasses.

- 7. Site Analysis: Total Area of Site 0.20 Acres Area Disturbed 0.26 Acres Area to be roofed or paved O.11 Acres Area to be vegetatively stabilized 0.15 Acres 200 Qu. Yds Total Fill 200 Cu. Yds. Off-site waste/barrow area location: N/A
- 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
- 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. Trenches for the construction of utilities is limited to 3 pipe lengths or that which shall be backfilled and stabilized within one working day, whichever is shorter.

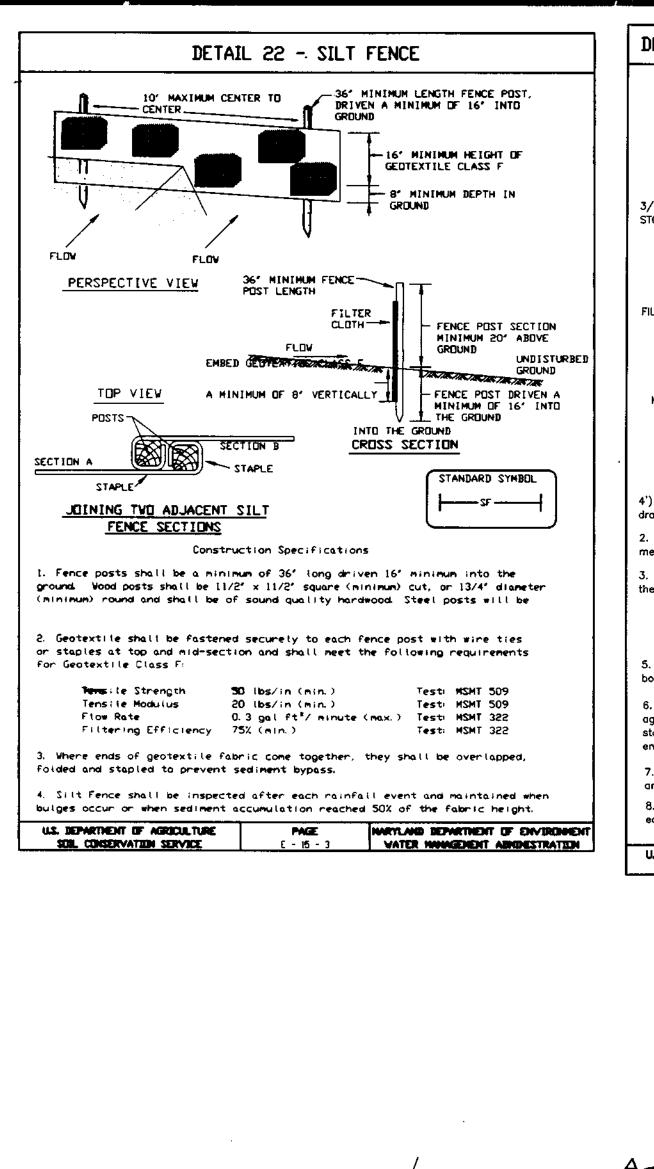
#### Sequence of Construction

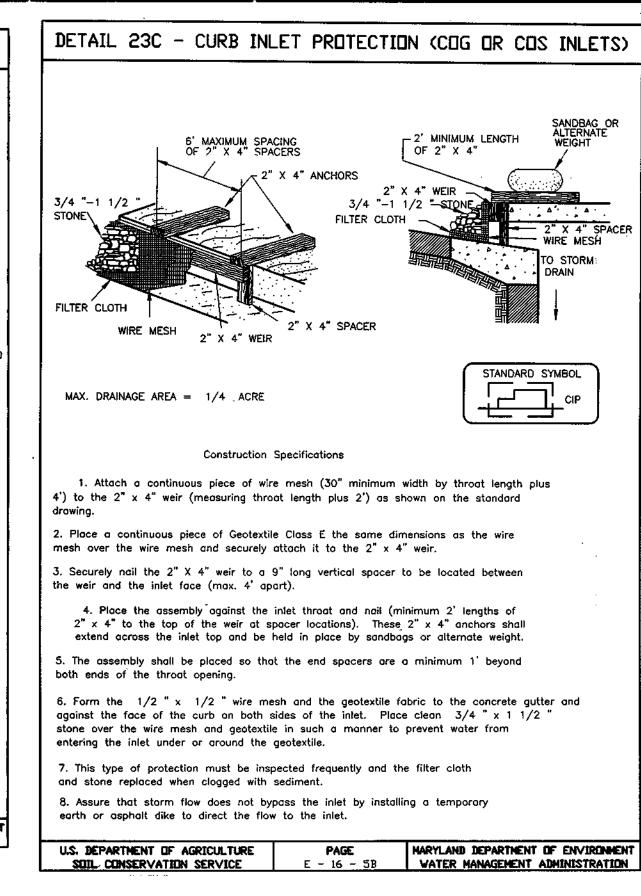
- 1. Obtain grading permit and arrange pre-construction meeting with sediment control inspector (1 day).
- 2. Install silt fence and curb inlet protection for existing inlet I-9 (2)
- 3. Construct Inlet I-9A and modify existing inlet I-9 to junction box. Move curb inlet protection to new inlet I-9A (3 days).
- 4. Grade site for roadway widening, construct proposed curb and gutter, and install paving sub-base (Iweek).
- 5. Stabilize shoulder areas. When areas draining to sediment controls have been stabilized and the sediment control inspector has granted permission, remove curb inlet protection. Remove existing curb (2 days).

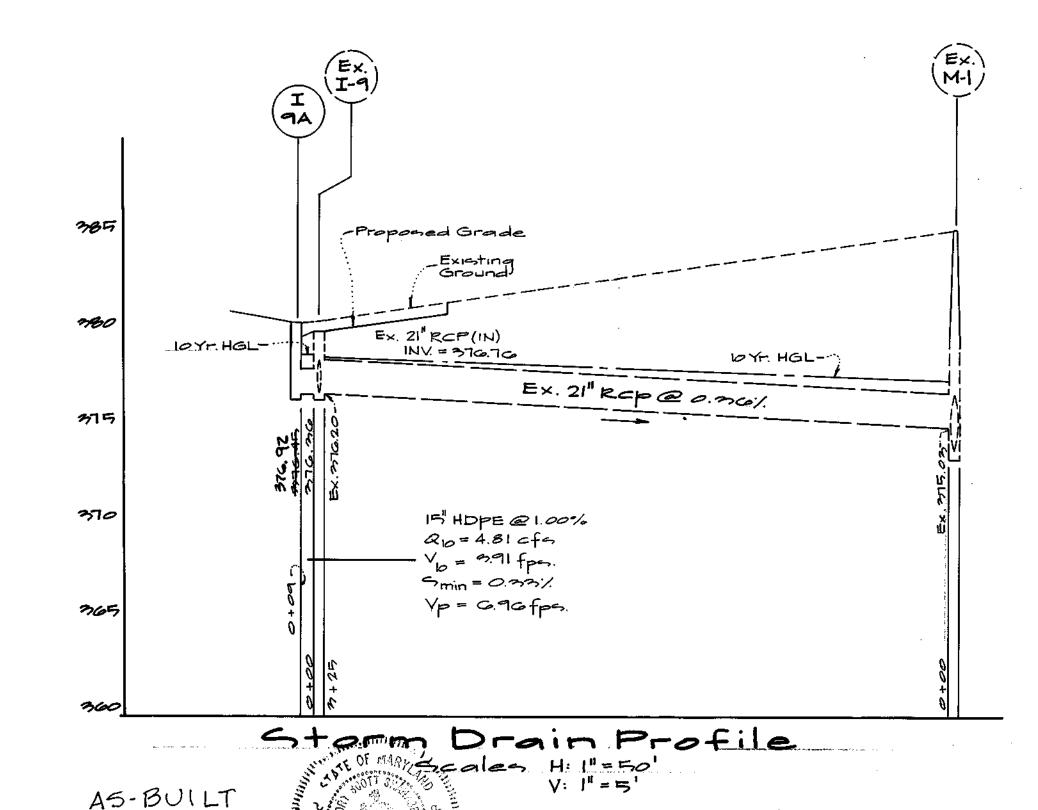
---- Existing Contour

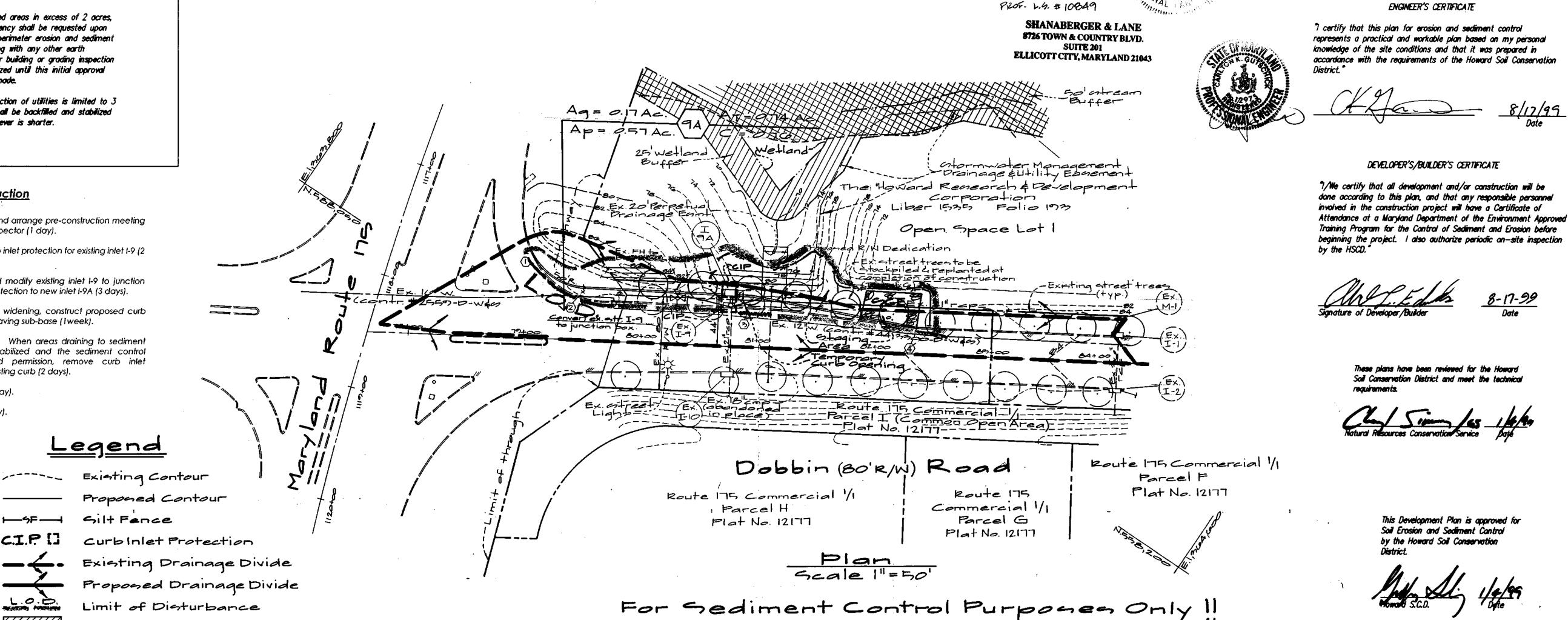
Silt Fence

- 6. Pave widening area (1day).
- 7. Install landscaping (1day).









# GLW GUTSCHICK LITTLE & WEBER, P.A.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONIN

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS BLATTONSVILLE, MARYLAND 20806
TEL: 301-421-4024 BALT: 410-880-1820 BC/AR: 301-889-2524 FAX: 301-421-4188

\DRAWNGS\91055\9155SCD3.DWG

DES. DRILWGJ CHK. DATE

REVISION

Eronion Control Malting

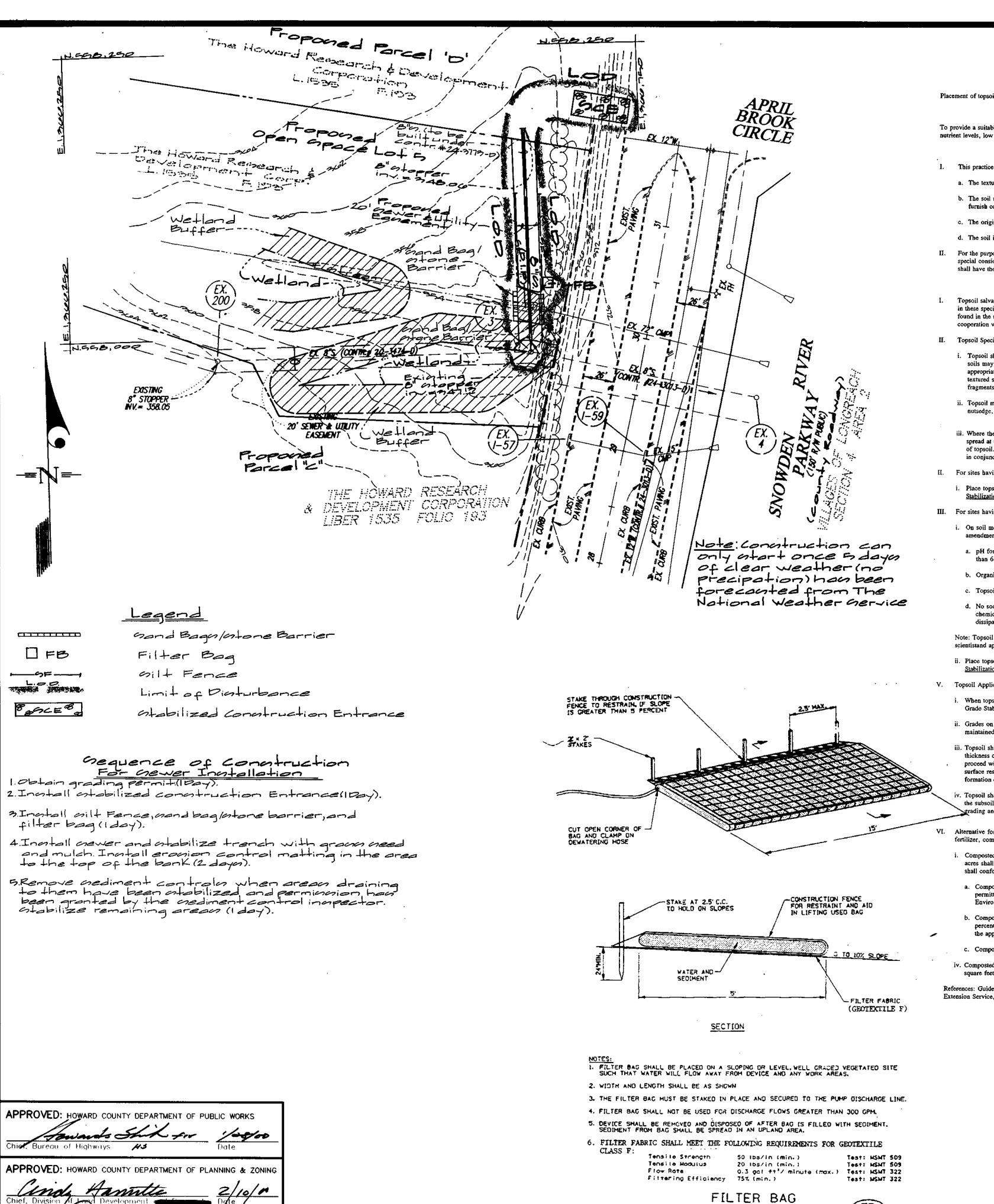
PREPARED FOR: THE HOWARD RESEARCH & DEVELOPMENT CORPORATION 10275 LITTLE PATUXENT PKWAY COLUMBIA, MARYLAND 21044 ATTNL: AL EDWARDS TELE: (410) 992-6027

Route 175 Commercial action 1 Area 2 Phane 235 ELECTION DISTRICT No. 6

Spott Flanderg 7

& SCOTT SHANABERGER

D.A.M., Gradina, Sediment Control, Notes, Details & S.D. Profiles SCALE G. L. W. FILE No. 95003 AS SHOWN TAX MAP - GRID 305 Now, 1999 HOWARD COUNTY, MARYEAND



CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS

3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MD. 20866

TELEPHONE: (301)421-4024 NO.VA. (301)989-2524 BALTO. (301)880-1820 FAX (301)421-4186

21.0 STANDARD AND SPECIFICATIONS

<u>TOPSOIL</u>

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation

#### To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

- I. This practice is limited to areas having 2:1 or flatter slopes where:
- a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth
- b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.

Conditions Where Practice Applies

- c. The original soil to be vegetated contains material toxic to plant growth.
- d. The soil is so acidic that treatment with limestone is not feasible.
- II. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

#### Construction and Material Specifications

- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.
- II. Topsoil Specifications Soil to be used as topsoil must meet the following:
  - . Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 11/2" in diameter.
  - ii. Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.
- iii. Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- II. For sites having disturbed areas under 5 acres:
- i. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
- III. For sites having disturbed areas over 5 acres:
  - i. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
  - a. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be perscribed to raise the pH to 6.5 or higher.

  - b. Organic content of topsoil shall be not less than 1.5 percent by weight.
  - c. Topsoil having soluble salt content greater than 500 parts per million shall not be used.
  - d. No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.

Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientistand approved by the appopriate approval authority, may be used in lieu of natural topsoil.

- ii. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

PREPARED FOR

Development Corporation

10275 Little Paturent PKWY.

Columbia, Maryland 21044

The Howard Renearch &

Attn.: Al Edwards

APP'R. Tele: (410)0012-6027

TEMPORARY EROSION CONTROL MEASURE FB

REVISION

- i. When topsoiling, maintain needed erosion and sediment control practices such as diversions Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
- ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation
- iii. Topsoil shall be uniformly distributed in a 4" 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
- . Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper
- Alternative for Permanent Seeding Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:
- i. Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
- a. Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the
- b. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a Ph of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
- c. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
- iv. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

References: Guideline Specifications, Soil Preparation and Sodding. MD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1973.

#### 22.0 STANDARD AND SPECIFICATIONS

#### EROSION CONTROL MATTING

Erosion control matting is used to temporarily stabilize channels or steep slopes until vegetation is established. There are many types of matting available. The erosion control matting that is used must withstand velocities of 6 feet per second.

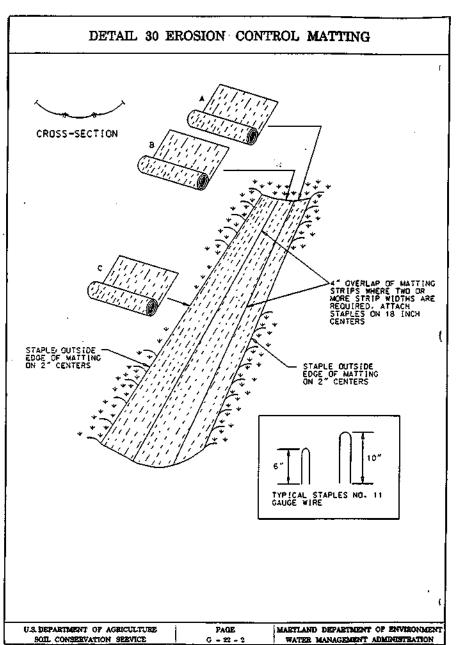
#### Conditions Where Practice Applies

Mattings are used to stabilize the flow channels of dikes and swales where the velocity is under 6 feet per second. They may also be used on tidal or stream banks where moving water is likely to wash out new

- Some channels will require multiple widths of matting, with two widths being the most commonly used. Unroll the matting starting at the upper end of the channel, allowing a 4" overlap of mattings along center of channel. The sequence of construction should be as follows:
- 1. Bury the top ends of the matting in a narrow trench, 6" in depth. Backfill the trench and tamp firmly to conform to the channel cross-section. Secure with a row of staples about 4" down slope from the trench. Spacing between staples is 6".
- 2. Staple the 4" overlap in the channel center spacing the staples 18" apart.
- 3. Make sure the matting is smooth and in firm contact with the soil, then staple the outer edges of the matting. Staples shall be placed 2' apart with 4 rows for each strip, 2 outer rows, and 2 alternating

Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper

- end of the lower strip by 4", shiplap fashion. Reinforce the overlap with a double row of staples spaced 6" apart in a staggered pattern on either side. The discharge end of the matting liner should be similarly secured with 2 double rows of staples.
- 5. The protective matting can be laid over sprigged areas where small grass plants have been planted. Where ground covers are to be planted, lay the protective matting first and then plant through the matting according to the landscape design.



EROSION CONTROL MATTING

Construction Specifications

1. Key-in the matting by piccing the top ends of the matting in a

norrow trench. 6" in depth. Backfill the trench and tamp firmly to conform to the channel cross-section. Secure with a row of stoples about 4" down slope from the trench. Specing between staples is

2. Staple the 4" overlap in the channel center using an 18" spacing

3. Before stopling the outer edges of the motting, make sure the

4. Staples shall be placed 2' apart with 4 rows for each strip. 2

5. Where one roll of matting ends and another begins, the end of

6. The discharge end of the matting liner should be similarly

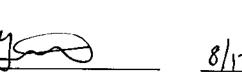
shiples fashion. Reinforce the overlop with a double row of staples

Note: if flow will enter from the edge of the matting then the area

# WATER RESOURCES **ADMINISTRATION**

"I 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 Soil Conservation

ENGINEER'S CERTIFICATE



Approved On 1/24/84

Chief Waterway Permit

#### DEVELOPER'S /BUILDER'S CERTIFICATE

"I/We certify that all development and/or construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Maryland 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

These plans have been reviewed for the Howard Soil Conservation District and meet the technical

by the Howard Soil Conservation

SCALE ZONING 7 so ohowr DRN.: WM-DATE TAX MAP No. CHK.:

gediment Control Plan G.L.W. FILE No. Route 175 Commercial 95-007 nection 1. Area 2 SHEET Phane 235 Mori Todolo 4 of 5 Election Dintrict No. co Howard County, Maryland

Dewatering Device

Stream Bank

i⊕>— ç utility———

\_\_\_\_\_

\_\_\_\_\_

Flow Barrier

--- Sediment Cantrol

The contractor shall insure that a continuous perimeter control barrier is in place so as to minimize pollutants entering the water. Excavated topsoil and subsoil shall be kept

Construction Requirements

separate and replaced in their natural order. 4. All excavated materials shall be placed on the upland side of the excavation.
All construction shall take place during stream

This work shall consist of installing erosion control devices in and adjacent to temporary stream con-

All erosion and sediment control devices shall be installed as the first order of work.

low flows. The length of construction time shall be limited to a maximum of 5 days for each All utility crossings shall be placed at least

three feet beneath the stream bed unless an alternative section is specifically approved by the Administration.
The contractor may elect to construct the utility

crossing in two stages. In this case, a WRA approved flow barrier may be constructed to keep the construction area dry. Sediment control devices are to remain in place until all disturbed areas are stabilized in accordance with an approved sediment and erosion control plan and the inspection authority approves

their removal. Alternatives

FLOW Bank Protection 15-24 in Ripray

SECTION AA Stream Bed 3 fc min

SECTION BB

PLAN VIEW

\_\_\_\_\_\_\_

\_\_ -\_ -

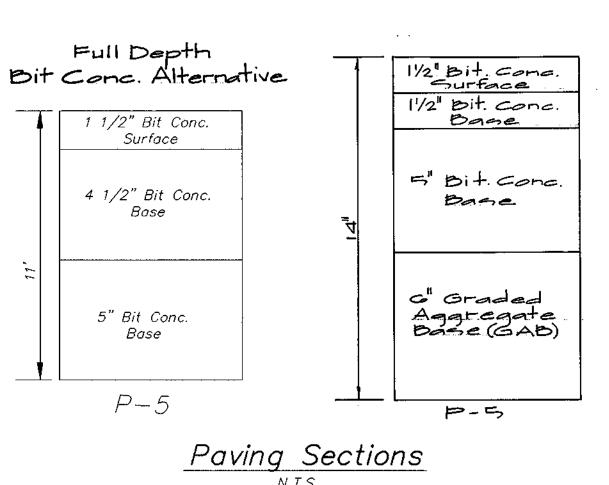
Buffer Zone

Limits Of

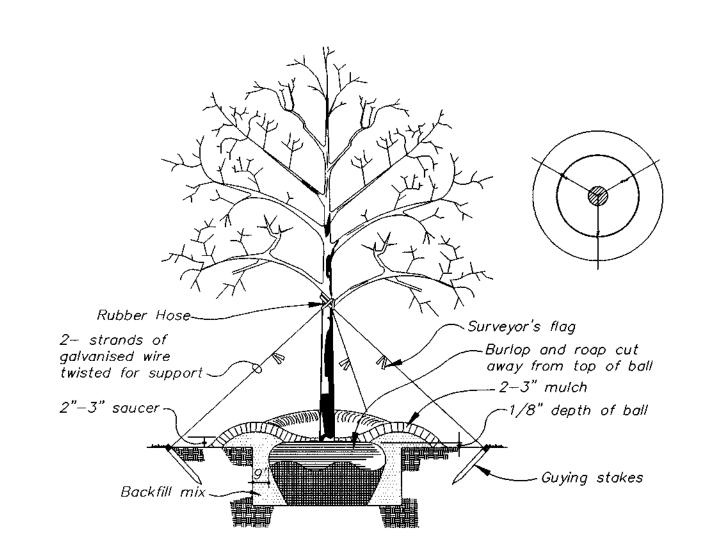
Disturbance

Washed Grav

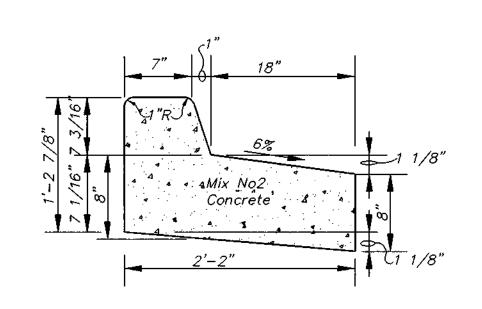
Utility Crossing



Note: Other equivalent paving sections may be approved where approved by a professional soils engineer.



Typical Tree Guying Detail



Reverse 7" Combination Curb & Gutter N. T. S.

Ex. Paving -.

Remove Ex. Stal.

4 qutter

2" top goil

Street Trees to be located approximately 5' behind curbs.

Combination curb

80' R/W

+-+ R/W+ Grade

DOBBIN ROAD

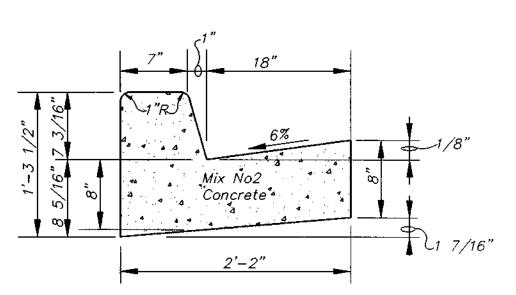
(Sta.79+46 to Sta. 80+92)

Provide New Pout

Ex. 20 Perpetual Drainage Egent.

<u>Plan</u>

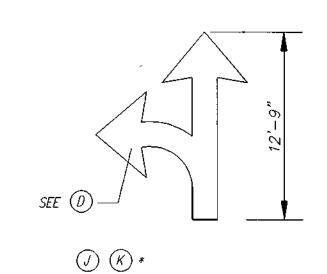
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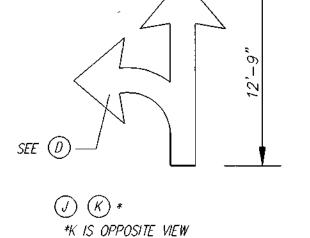


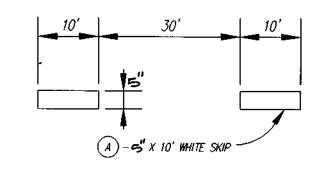
Standard 7" Combination Curb & Gutter

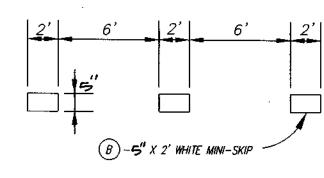
Ex.Ground-

5+a. 80 + 40 Begin B

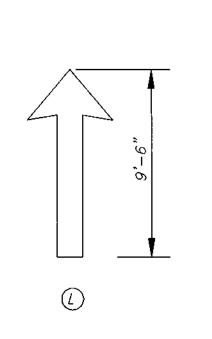


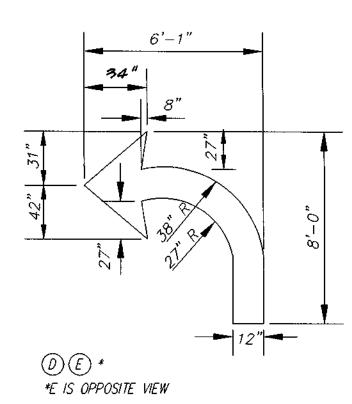


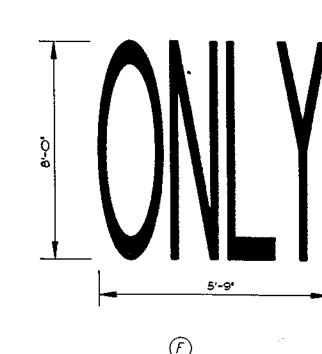




Typical Spacing Longitudinal Pavement Lines



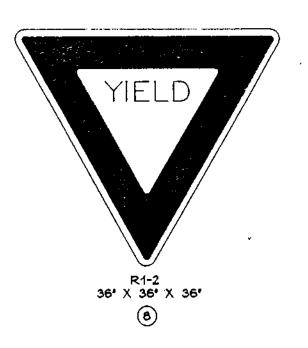




PAVEMENT SYMBOLS

Pavement Marking Details

NO SCALE



Signing Details

NO SCALE

#### <u>LEGEND</u>

- (A) PAVEMENT LINES -5" X 10' WHITE SKIP
- (B) PAVEMENT LINES S" X 2' WHITE MINI-SKIP
- (C) PAVEMENT LINES 5" WHITE SOLID
- (D) PAVEMENT SYMBOL LEFT TURN ARROW
- (E) PAVEMENT SYMBOL RIGHT TURN ARROW
- (F) PAVEMENT SYMBOL ONLY
- (G) PAVEMENT LINES 24" WHITE TRANSVERSE STOP LINE ( SEE PAVEMENT MARKING NOTE #3)
- PAVEMENT LINES 5" DOUBLE YELLOW SOLID
- PAVEMENT LINES -5" YELLOW SOLID TEMPORARY TAPE
- $\overline{(J)}$  PAVEMENT SYMBOL LEFT TURN AND THROUGH ARROW
- (K) PAVEMENT SYMBOL RIGHT TURN AND THROUGH ARROW
- (L) PAVEMENT SYMBOL THROUGH ARROW
- (M) PAVEMENT LINES 5" YELLOW SOLID



### **LEGEND**

- 1 EXISTING SIGN TO REMAIN
- (1) EXISITNG SIGN TO BE REMOVED AND SALVAGED
- (2) EXISTING SIGN TO BE REMOVED AND RESET AT NEW LOCATION
- 2 NEW SIGNS SEE BELOW
- (G) EXISTING PAVEMENT MARKING
- (G) NEW PAVEMENT MARKING

#### PAVEMENT MARKING NOTES

- 1. ALL PAVEMENT MARKINGS TO BE APPLIED USING "SETFAST PREMIMUM ALKYD TRAFFIC PAINT" BY SHERWIN WILLIAMS OR APPROVED EQUAL.
- 2. EXISTING PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS FOR THIS CONTRACT WILL BE REMOVED BY THE CONTRACTOR BY ANY METHOD WHICH IS APPROVED BY THE ENGINEER. ONLY METHOD CHRRENTLY APPROVED IN GRINDING.

#### SIGNING NOTES

SIGN ERECTED AT THE SIDE OF THE ROAD SHALL BE MOUNTED AT A HEIGHT OF AT LEAST 7 FEET MEASURED FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE PAVEMENT.

Sta. 80+92 End (B)

Route 175 Commercial 1/1

Plat No. 12177

Dobbin (80'R/W) Road

Parcel I (Common Open Area)

6TH ELECTION DISTRICT

oponed R/W Dedication

- 2. ALL SIGNS TO BE MOUNTED ON 4"X4"X12" WOLMANIZED, (PRESSURE TREATED), WOODEN POSTS.
- 3. SIGNS SHALL BE 12" TO 18" FROM EDGE OF SIGN TO CURB LINE. STOP SIGNS SHALL BE LOCATED 15' BACK FROM INTERSECTING STREET CURB LINE OR AS DIRECTED BY HOWARD COUNTY TRAFFIC DIVISION.



GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186 CHK.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DATE BY APP'R. REVISION

PREPARED FOR: THE HOWARD RESEARCH & DEVELOPMENT CORP. THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MD. 21044 ATTN: MR. BILL BROWN (410) 992–6027

Section | Area 2 Phane 235

STRIPING PLAN & TYPICAL DETAILS G. L. W. FILE No. 95-003 AS SHOWN Route 175 Commercial New Town TAX MAP - GRID SHEET Now, 1999 HOWARD COUNTY, MARYLAND