SITE DEVELOPMENT PLAN FOR VILLAGE OF RIVER HILL PHEASANT RIDGE NEIGHBORHOOD TOT LOT 3 1. All construction shall be in accordance with the latest standards and specifications of

TOT LOT

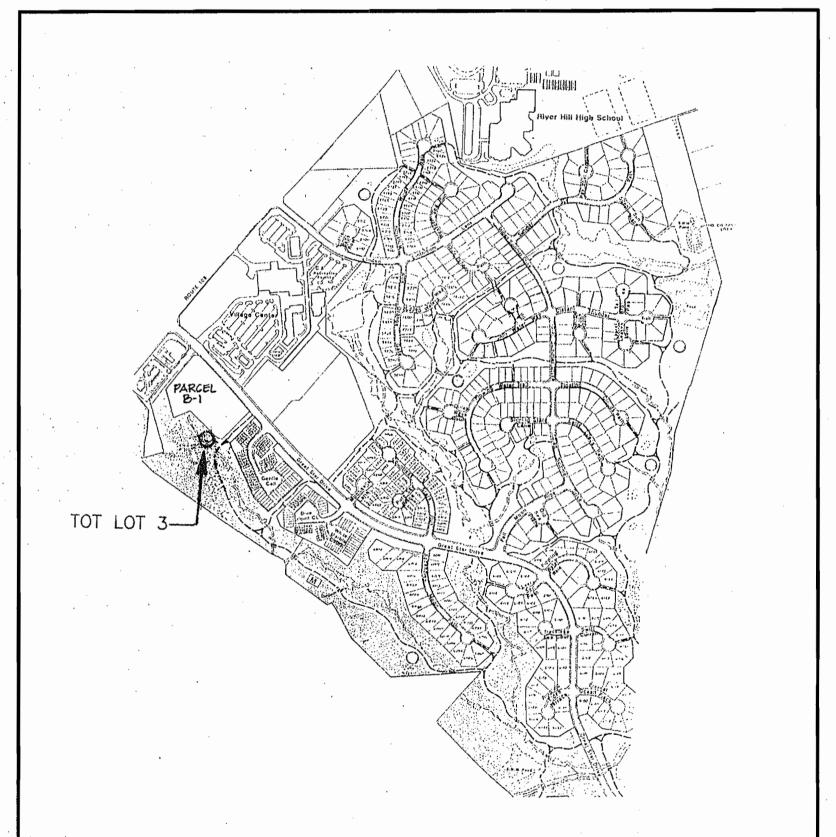
LOCATION MAP SCALE: 1"=800'

SUMMARY SITE ANALYSIS TOT LOT 3

| Zone | NT OPEN SPACE |
|-------------------------------|---------------|
| Disturbed Areas | 0.16 AC |
| Impervious Areas | 0 |
| Permeable Areas | 0.11 AC |
| Mulched Areas | 0.05 AC |
| Vegetatively Stabilized Areas | 0.11 AC |
| Total Earth Cut | 30 CY |
| total Earth fill | 28 CY |
| Total Spoil | 2 CY |
| , | |

NOTE: Construction of all bituminous pathways is permitted under SDP#00—14

Construction of pathway link from Parcel B-1 is covered under SDP-01-144. Planting along SWM bond perimeter as required by Planting Board is shown a red-line revision to SDP: 01.144



Intersection of MD. Route 108 and

an additional 2,544' ± Northeasterly along MD. Route 108 away from Site

| LEGE | ND |
|--|-----------------|
| CONTOUR INTERVAL EXISTING CONTOUR PROPOSED CONTOUR DIRECTION OF DRAINAGE SPOT ELEVATION LIMIT OF DISTURBED AREA TREE PROTECTION FENCE EXISTING TREES TO REMAIN | 2 FT. 348 348 |
| SITE ACCESS / STABILIZED CONSTRUCTION ENTRANCE | |
| | |

VICINITY MAP

| | ADDRESS CH | ART |
|---------|-------------------|------------------|
| TOT LOT | LOT NUMBER | ADDRESS |
| 3 | OPEN SPACE LOT 87 | GREAT STAR DRIVE |
| | | · |
| | | |

| SHEET INDEX | |
|---|-----------|
| DESCRIPTION | SHEET NO. |
| COVER SHEET | 1 OF 3 |
| TOT LOT NO. 3 SITE PLAN AND SEDIMENT CONTROL PLAN | 2 OF 3 |
| SITE AND SEDIMENT CONTROL DETAILS | 3 OF 3 |
| | |
| | |

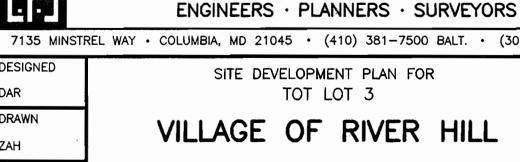
OWNER / DEVELOPER HOWARD RESEARCH AND DEVELOPMENT, CO.

10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044

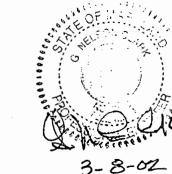
THE COLUMBIA ASSOCIATION 10221 WINCOPIN CIRCLE, SUITE 100 COLUMBIA, MARYLAND 21844-3410

| SUBDIVISION NA VILLAGE OF | | 4/1 Pi | SECTION/AREA HASE 1 | LOTS/PAR 87 | RCELS |
|------------------------------|----------|--------|------------------------|----------------|--------------|
| PLAT NO. | GRID NO. | ZONE | TAX MAP NO. | ELECTION DIST. | CENSUS TRACT |
| 12693 | 7 | NT | 35 | 5TH | 605501 |
| WATER CODE | N/A | | SEWER CODE | N/A | |

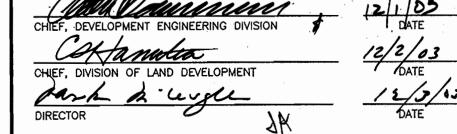
| | CLARK | · FINE | FROCK | & SACK | KETT, INC. |
|------------|----------|--------|-------------|----------------|--------------|
| WATER CODE | N/A | | SEWER CODE | N/A | |
| 12693 | 7 | NT | 35 | 5TH | 605501 |
| PLAT NO. | GRID NO. | ZONE | TAX MAP NO. | ELECTION DIST. | CENSUS TRACT |



(7)F:/Drawings/vorh/tot



| | 7135 MINST | TREL WAY • COLUMBIA, MD 21045 • (410) 381-7500 BALT. • (301) 621-8100 WASH. | | | | |
|-------|------------|---|----------|--|--|--|
| | DESIGNED | SITE DEVELOPMENT PLAN FOR | SCALE | | | |
| | DAR | TOT LOT 3 | AS SHOWN | | | |
| | DRAWN | VILLAGE OF RIVER HILL | DRAWING | | | |
| | ZAH | VILLAGE OF RIVER FILE | 1 of 3 | | | |
| | CHECKED | SECTION 4 AREA 1, PHASE 1 | JOB NO. | | | |
| | DAR | FIFTH (5th) ELECTION DISTRICT HOWARD COUNTY, MARYLAND | 01-083 | | | |
| | DATE | FOR: THE COLUMBIA ASSOCIATION 10221 Wimcopin Circle, Suite 100 | FILE NO. | | | |
| ·lot3 | 5-24-02 | Columbia, Maryland 21044 Phone: 410–381–0383 | 01-083-x | | | |



DEPARTMENT OF PLANNING & ZONING

GENERAL NOTES

any excavation work.

Location: Village Of River Hill

Zoning: New Town Open Space

F-96-110. There are no floodplains on this site.

4. Project background:

Howard County plus MSHA standards and specifications if applicable

2. The contractor shall notify the Bureau of Engineering / Construction Inspection Division at (410) 313—1880 at least five (5) days prior to the start of work.

3. The contractor shall notify "MISS UTILITY" at 1(800)257-7777 at least 48 hours prior to

GDP 00-14 for construction of pathways. FDP 222 A-1, Part 1; SDP-01-118 for tot lots 1,244; SDP-01-144 for Parcel B-1; F-02-87 for resubdivision of F-96-110 for SWM easements; SDP-01-141 for SWM planting

6. Horizontal controls are based on Maryland State Grid System as per the respective record plats.

7. Wetland limits were derived from the retrospective record plats established under subdivision plans

8. Stormwater management for these sites was provided under the original subdivision plans F-96-110.

9. The existing utilities were located from existing plans and records. The contractor must dig test pits,

10. Any damage to County rights—of—ways and paving of public roads shall be repaired immediately at the contractors expense in accordance with the Howard County Specifications and Standards.

12. The limit of disturbance area on the site shall be marked with a construction fence prior to any

14. All trees 12 inches and larger are not to be disturbed unless indicated on plans. All trees within

13. Maintenance of the tot lot will be the responsibility of the owner, The Columbia Association.

15. No disturbance of Wetlands or Steam Buffers is permitted unless specific waiver is approved.

17. This plan is exempt from Forest Conservation obligations per Section 16.1202 (b)(1)(iv) based on approval of

19. The coordinates shown hereon are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane Coordinate System. Howard County Monument Nos.

PLANNING BOARD of HOWARD COUNTY

the limit of disturbance are to have tree protection fence installed around them.

16. The subject property is zoned NT per the 10-18-93 Comprehensive Zoning Plan.

Preliminary Development Plan and development of 50% of the land prior to 12-31-92.

11. All concrete for the site work shall be Class 2 concrete and shall be in accordance with the Maryland

5. Topography within limits of disturbance was field run at two foot contour intervals by. Daft—McCune—Walker, dated February, 2001.

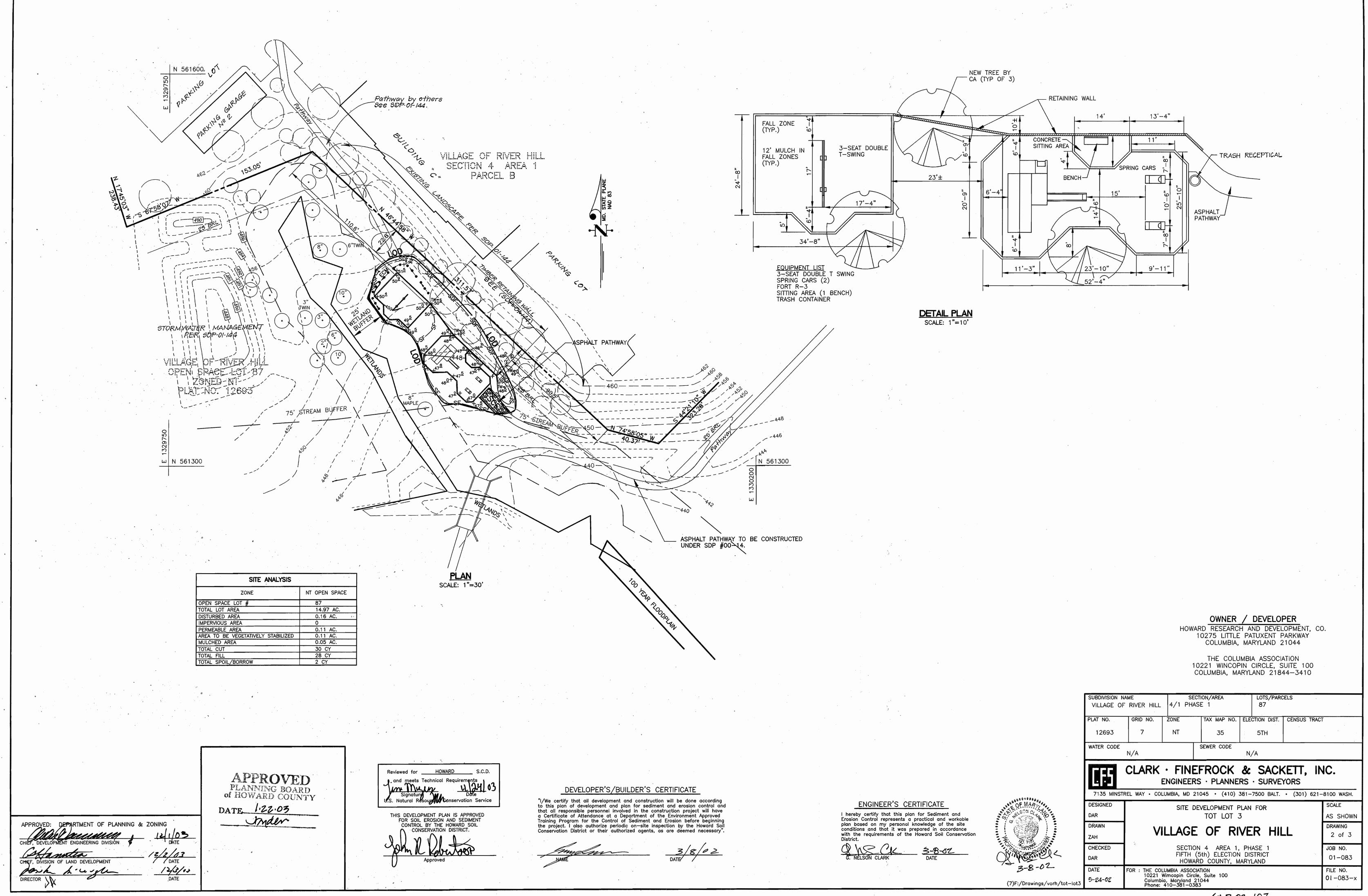
by hand, at all utility crossings and connection points to verify exact location

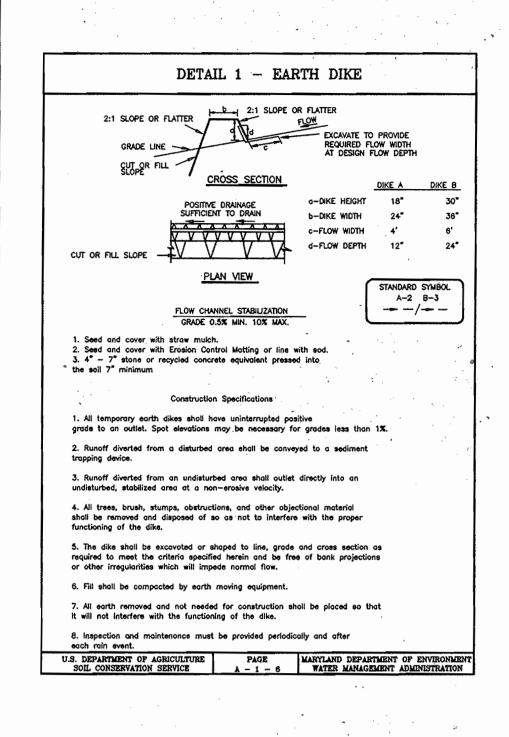
State Highway Administration specifications as amended to date.

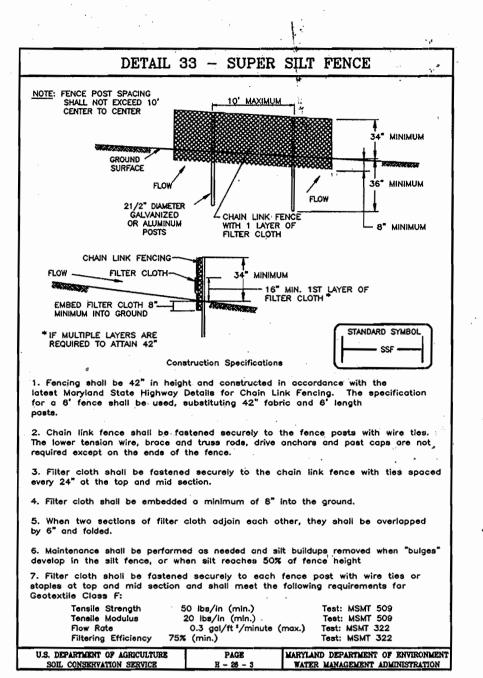
clearing and grading activity for the tot lot construction.

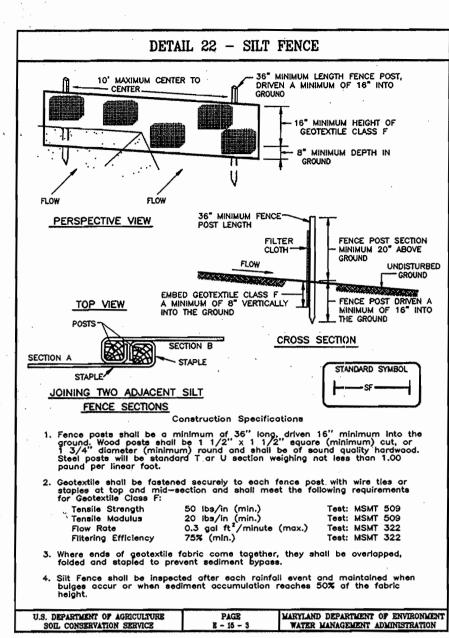
18. No traffic study is required for this project.

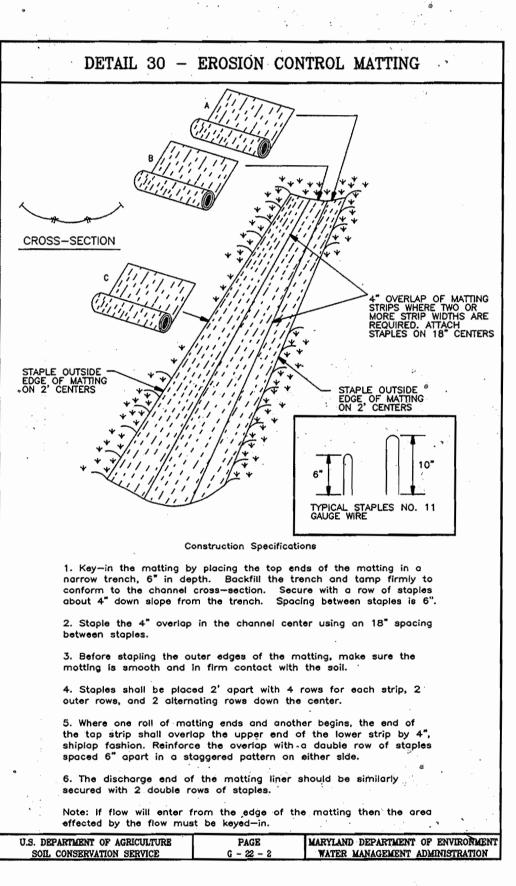
29G4 and 29G5 were used for this project.

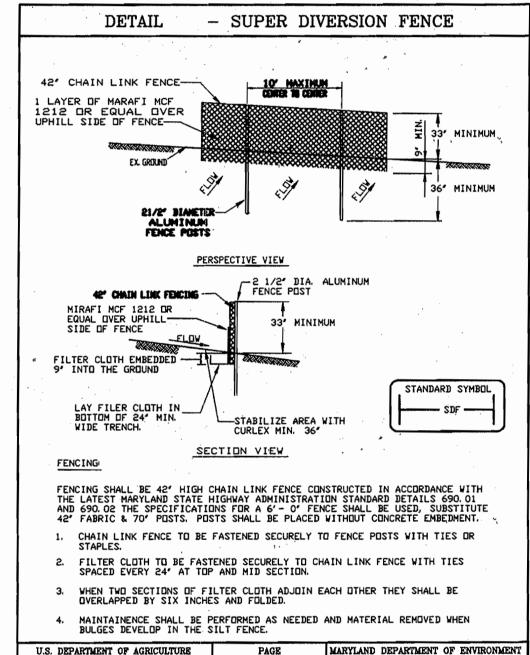


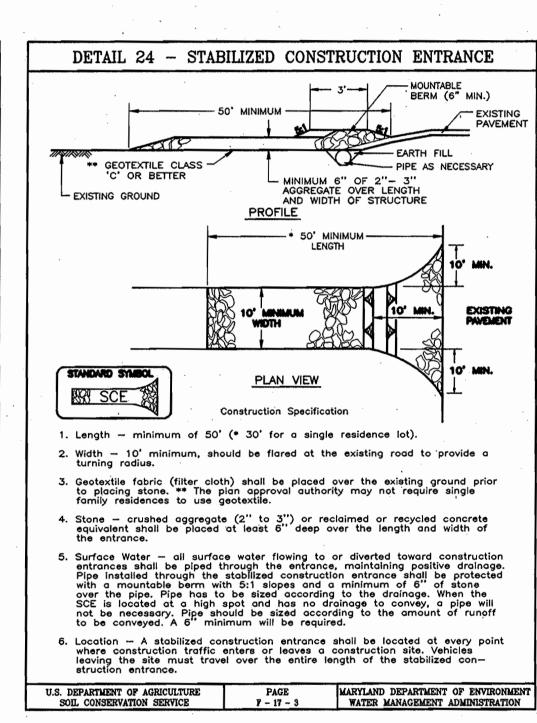












21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

Definition

Placement of topsoil over a prepared subsoil prior to

<u>Purpose</u> To provide a suitable soil medium for vegetable growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or

- Conditions Where Practice Applies
- This practice is limited to areas having 2:1 or flatter a. The texture of the exposed subsoil/parent
- material is not adequate to produce vegetative 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. c. The original soil to be vegetated contains material toxic to plant growth. d. The soil is so acidic that treatment with
- imestone 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 gricultural Experimental Station.
- II. Topsoil Specifications Soil to be used as topsoil
- i. 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 a soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of cantrasting textured subsoils and shall contain le than 5% by volume of cinders, stones, stag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2" 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 compose 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 topso Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with till— age operations as described in the following procedures.

III. For sites having disturbed areas under 5 acres:

- Place topsoil (if required) and apply soil amend— ments as specified in 20.0 Vegetative Stabilization -Section 1 Vegetative Stabilization Methods and
- IV. For sites having disturbed areas over 5 acres: On soil meeting topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the
- 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 prescribed to raise
- 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
 b. Organic cantent 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 scientist and approved by the appropriate approval authority, may be used in
- Place topsoil (if required) and apply soil amendments specified in 20.0 Vegetative Stabilization—Section I— Vegetative Stabilization Methods and Materials.
- i. When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope
- 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 top-soiling or other operations shall be corrected in order to prevent the formation of depressions or
- iv. Topsoil shall not be place 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 grading and seedbed preparation.

NOTES:

1. Timbers shall be either:

a) Creasote treated railroad ties.

Hardware shall be hot dipped galvanized.

b) CCA treated landscaping timbers (.40 lb./cf retention)

Weepholes with or without gravel drain are minimum

PERMANENT SEEDING NOTES

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

1) Preferred-Apply 2 tons per acre dolomitic limestone (92 lbs/100 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 dolomatic limestone (92 lbs/

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 appeared straw mulch and seed as soon as possible

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

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,

TEMPORARY SEEDING NOTES

SEEDBED PREPARATION: Loosen upper three inches of soil by raking,

discing or other acceptable means before seeding, if not previously

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 anchoning.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT

SOIL AMENDMENTS: Apply 600 lbs. per acre 10-10-10 fertilizer

(14 lbs./1000 sq.ft).

in the spring, or use sod.

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

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

> a) 7 calendar days for all perimeter sediment control stuctures dikes, perimeter slopes and all slopes greater than 3:1 b) 14 days as to all other disturbed or graded areas on the project site.

All sediment traps/basins shown must be fenced and warning signs posted around their perimeters in accordance with Vol.1, Chapter 7, of the HOWARD COUNTY DESIGN MANUAL, Storm

SEDIMENT AND EROSION CONTROL NOTES

Sediment Control Division prior to the start of any construction (313-1855).

according to the provisions of this plan and one to be in conformance with the 1994 MARYLAND STANDARDS AND SPECS. FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.

3. Following initial soil disturbance or redisturbance, permanent or

A <u>minimum of 48 hours</u> notice must be given to the Howard County Department of Inspections, Licenses and Permits,

2. All vegetative and structural practices are to be installed

 All disturbed areas must be stabilized within the time period specified above, in accordance with the 1994 MARYLAND STAND— ARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings, sod, temporary seeding and mulching (Sec G). Temporary stabilization with mulch alone can anly 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:

Area Disturbed:

Area to be roofed or paved:

Area to be vegetatively stabilized:

Total Cut:

O.16 Acres

O.16 Acres

O.11 Acres

30 CY

8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same

Additional sediment control must be provided, if deemed necessary by the Howard County DPW Sediment Control Inspector.

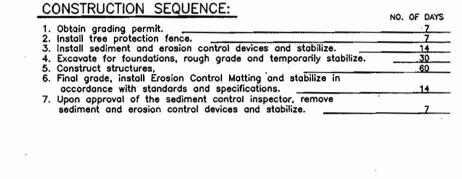
10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

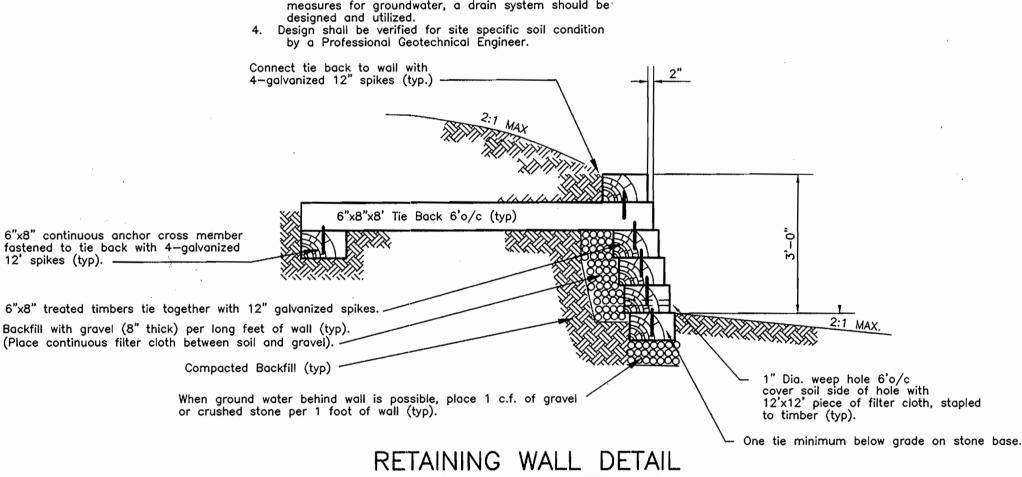
11. Trenches for the construction of utilities shall be backfilled and stabilized within one working day, or is limited to three pipe lengths.

12. The total amount of earth dike = 1<u>57 LF</u> 13. The total amount of super silt fence =

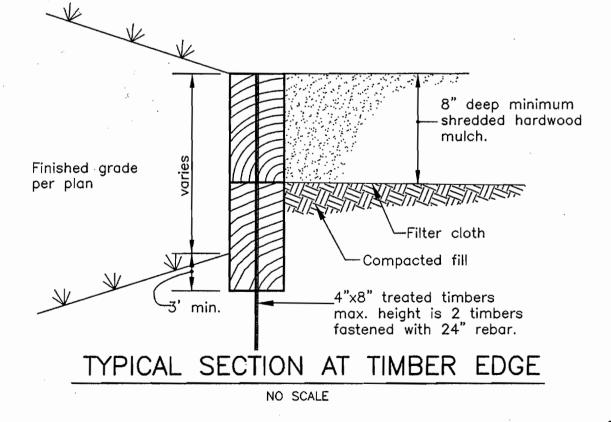
14. The total amount of super diversion fence: 172 LF

* 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 it's grading permit number at the time of construction.





NO SCALE



ENGINEER'S CERTIFICATE

I hereby certify that this plan for Sediment and

Erosion Control represents a practical and workable

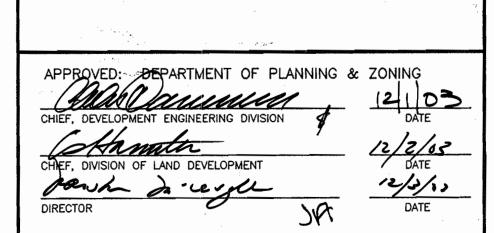
plan based on my personal knowledge of the site

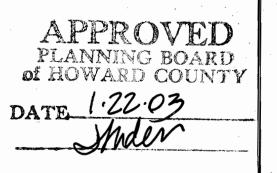
conditions and that it was prepared in accordance

with the requirements of the Howard Soil Conservation

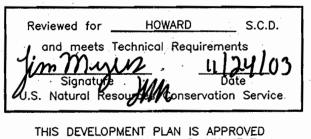
OWNER / DEVELOPER HOWARD RESEARCH AND DEVELOPMENT, CO. 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044

THE COLUMBIA ASSOCIATION 10221 WINCOPIN CIRCLE, SUITE 100 COLUMBIA, MARYLAND 21844-3410





SOIL CONSERVATION SERVICE



WATER MANAGEMENT ADMINISTRATION

FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

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 So Conservation District or their authorized agents, as are deemed necessary



(#7)F:/drawings/vorh/tot-lot3

DATE

5-24-02



CLARK · FINEFROCK & SACKETT, INC. **ENGINEERS · PLANNERS · SURVEYORS** 7135 MINSTREL WAY • COLUMBIA, MD 21045 • (410) 381-7500 BALT. • (301) 621-8100 WASH. DESIGNED SCALE SEDIMENT CONTROL DETAILS PAC TOT LOT 3 1" = 30'DRAWN DRAWING VILLAGE OF RIVER HILL 3 of 3 ZAHCHECKED SECTION 4, AREA 1, AREA 4 AND AREA 5 JOB NO. FIFTH (5th) ELECTION DISTRICT 00-083 HOWARD COUNTY, MARYLAND

THE COLUMBIA ASSOCIATION

Columbia, Maryland 21044 Phone: 410-381-0383

10221 Wimcopin Circle, Suite 100

FILE NO.

01-083-9