

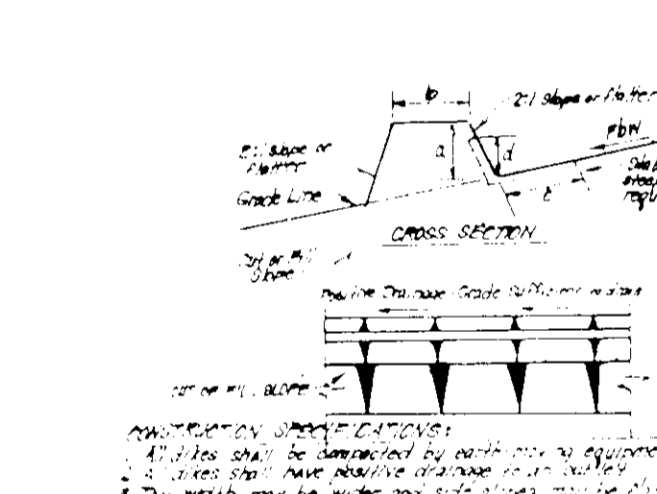
SEDIMENT AND EROSION CONTROL NOTES

- 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. (S.D. 24.2)
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in accordance with the 1983 MARYLAND STANDARDS AND SPECS. FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within 90 calendar days for all perimeter sediment control structures, ditches, perimeter slopes and all slopes greater than 3:1. 14 days for 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 12 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECS. FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) and (Sec. 54), temporary seedings (Sec. 52) 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.
- All sediment control structures are to remain in place and are to be maintained in operative condition until maximum for their removal has been obtained from the Howard County Sediment Control Inspector.
- SITE ANALYSIS:**

Total Area of Site:	0.601 AC
Area to be graded:	0.58 AC
Area to be vegetatively stabilized:	0.26 AC
Total FFI:	0.21 AC
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County DWP Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment control, 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.
- If houses are to be constructed on an "as sold" basis, at random, Single Family Sediment Control, as shown below shall be implemented.
- The total amount of silt fence = **375 LF**

CONSTRUCTION SEQUENCE:

NO. OF DAYS	NO. OF DAYS
1. Obtain grading permit	7
2. Install tree protection fence	7
3. Install sediment and erosion control devices and stabilize	14
4. Excavate for foundations, rough grade and temporarily stabilize	30
5. Construct structures, sidewalks and driveways	30
6. Final grade and stabilize in accordance with Stds. and Specs.	14
7. Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize	7



CONSTRUCTION SPECIFICATIONS

- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 50 feet (except on a simple rest-dence lot where a 30 foot minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
- Filter Cloth - Will be placed over the entire area prior to placing of stone.
- Filter will not be required on a simple family residence lot.
- Surface Water - All surface water flowing or directed toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
- Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleaning of any measures used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be cleaned immediately.
- Washing - 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.
- Periodic inspection and needed maintenance shall be provided after each rain.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDING 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 800 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding.
 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding.
 3) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding.
 4) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding.
 5) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding.

SEEDING: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 8000 lbs per acre (14 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 (20 lbs/1000 sq ft) of seeding legumes. During the period of October 16 thru February 28, seed with 2 tons per acre well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use seed. 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 untreated small grain straw immediately after seeding. Anchor mulch immediately after application using much anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

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

TEMPORARY SEEDING NOTES

SEEDING 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).

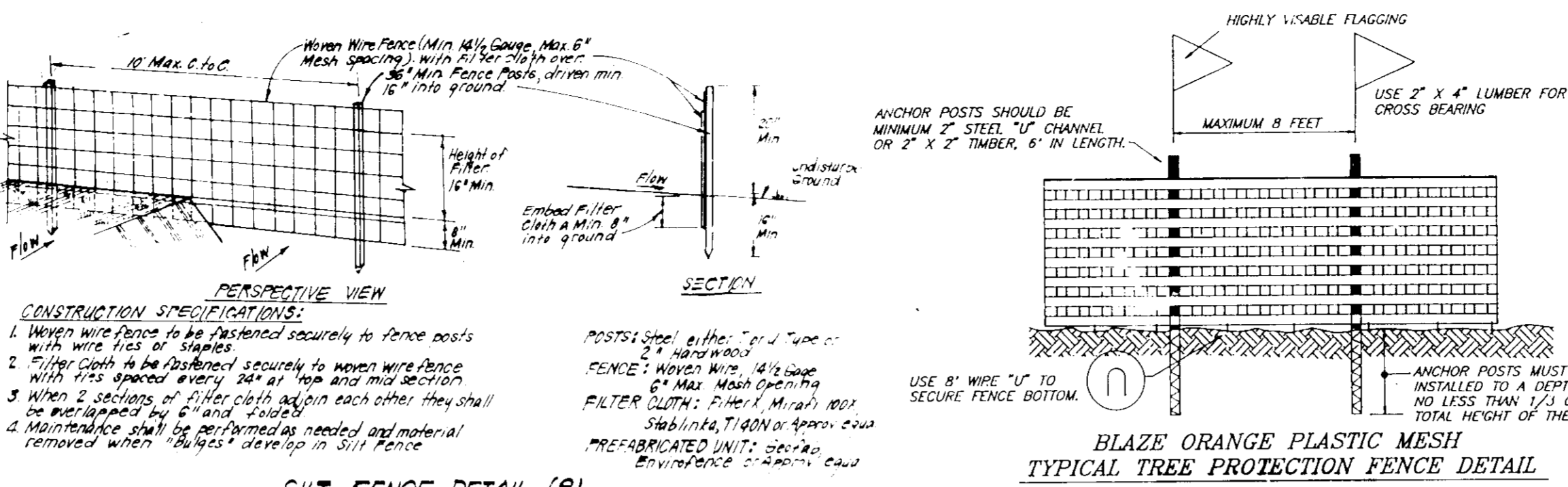
SEEDING: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 tons per acre of annual ryegrass (32 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (0.7 lbs/1000 sq ft). For the period November 16 thru February 28, protect sites by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use seed.

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using much 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.

STABILIZED CONSTRUCTION ENTRANCE (SCE)

No Scale



SILT FENCE DETAIL (S)

No Scale

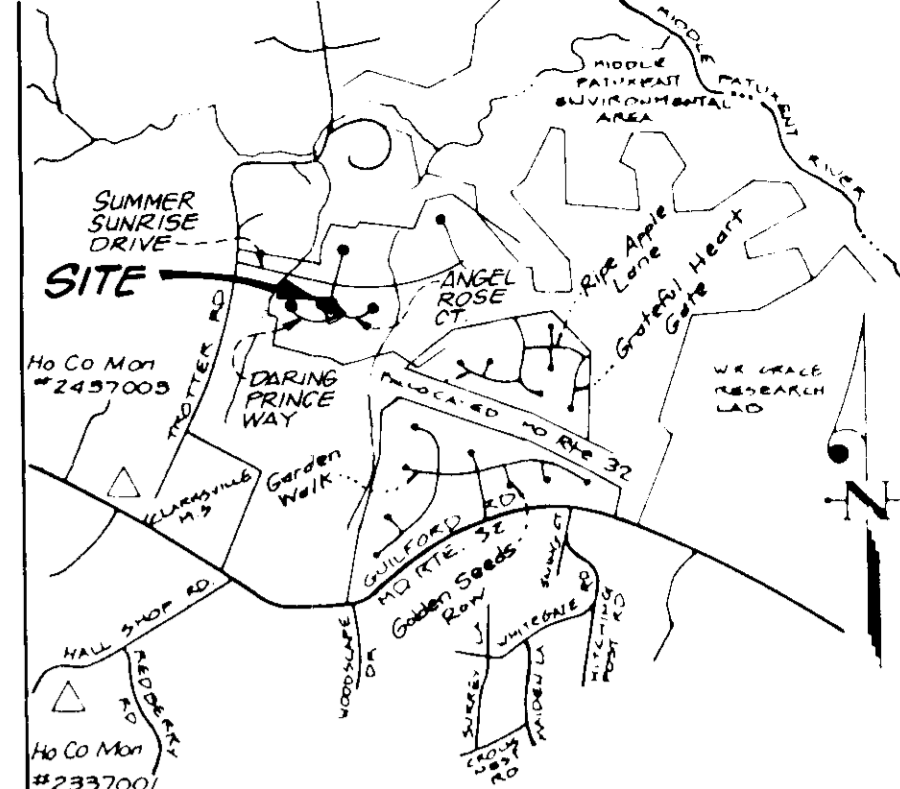
BLAZE ORANGE PLASTIC MESH TYPICAL TREE PROTECTION FENCE DETAIL

No Scale

- NOTES:**
- Forest protection device only.
 - Retention area will be set as part of the review process.
 - Boundaries of retention area should be staked and flagged prior to installing device.
 - Root damage should be avoided.
 - Protect signage may also be used.
 - Fence should be maintained throughout construction.

LEGEND

- Contour Interval: 2 FT
- Existing Contour: (Symbol)
- Proposed Contour: (Symbol)
- Spot Elevation: (Symbol)
- Direction of Drainage: (Symbol)
- Walk out Basement: (Symbol)
- Trees to be Saved: (Symbol)
- Tree Protection Fence: (Symbol)



VICINITY MAP

SCALE: 1"=2000'

GENERAL NOTES:

- Subject property is zoned: NT SFLD per 10.8.93 Comprehensive Zoning Plan, FDP Phase 200, Part One.
- The total area included in this submission is: 0.601 AC.
- The total number of lots included in this submission are: 2.
- Improvement to property: Single family detached.
- For driveway reference details refer to Ho Co Design Manual, Volume II, Sec. 2.1.1, R-603.
- Department of Planning and Zoning reference file numbers are: F-93-18, S-01-08, P-92-18, FDP Phase 200 Part 1.
- Utilities shown as existing are taken from approved water and sewer plan Contract #34-3204D, approved road construction plans F-93-18 and actual field survey.
- Any damage to county owned rights-of-way shall be corrected at the developer's expense.
- Storm water management is provided for this development in accordance with the approved water and sewer plan Contract #34-3204D.
- All roadways are public and existing.
- The existing topography shown was taken from field run survey by C.F.E.S. Sept. 1994.
- 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.: 2337001 & 2437002.
- The contractor shall notify the Department of Public Works, Division of Construction Inspection at 410.313.1800 at least five (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-291-1111 at least 48 hours prior to any excavation work.
- Under certain conditions, decks and porches may only extend 3 feet into front and rear setbacks or easements in FDP Phase 200.
- The wetland/stream buffer indicated on the plan prohibits subsequent clearing, grading or construction in the buffer area. Maintenance of residences, landscaping and utilities is permitted.
- The maximum lot coverage permitted is: 80%

ADDRESS CHART

LOT NUMBER	STREET ADDRESS
123	6306 ANGELO ROSE COURT
124	6304 ANGELO ROSE COURT

SPECIAL NOTES:

This plan's house siting and grading improvements shown with the lots in way of this SCE are not to be used for construction. For construction, see approved Road Construction Plans F-93-18 and/or approved Water and Sewer Plans Contract #C 34-3204 D. SHC elevations shown are at the property line.

REVISIONS

NO.	REVISIONS	DATE
1	Rev. 122 3rd Lot 124	11/28/94

APPROVED: HOWARD COUNTY DEPT OF PLANNING & ZONING
 DIRECTOR: *[Signature]* DATE: 11/9/94
 CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH: *[Signature]* DATE: 11/9/94

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *[Signature]* DATE: 11/24/94
 CHIEF BUREAU OF ENGINEERING: *[Signature]* DATE: 11/23/94

Reviewed for: HOWARD S.C.D.
 and meets Technical Requirements
 Signature: *[Signature]* Date: 10/21/94
 US Soil Conservation Service

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

[Signature] Approved: 10/31/94

DEVELOPER'S/BUILDER'S CERTIFICATE

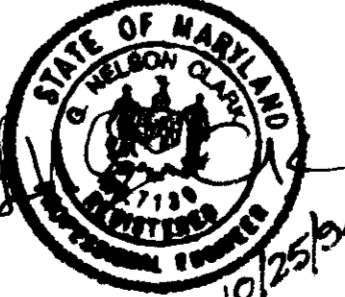
I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a certificate of Attendance at a Department of the Environment Approved Training 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]

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] Date: 10/25/94



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

DESIGNED: WHT
 DRAWN: FTU
 CHECKED: [Signature]
 DATE: 10/25/94

SITE DEVELOPMENT PLAN AND SEDIMENT AND EROSION CONTROL PLAN
 LOTS 123 & 124
COLUMBIA VILLAGE OF RIVER HILL
 SECTION 2 AREA 1
 FIFTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 For THE RYLAND GROUP INC
 7150 Minnetonka Way
 Columbia, Md 21045

SCALE: 1"=30'
 DRAWING: 1 OF 1
 JOB NO: 93-055
 FILE NO: 93-055-X

SDP-95-24