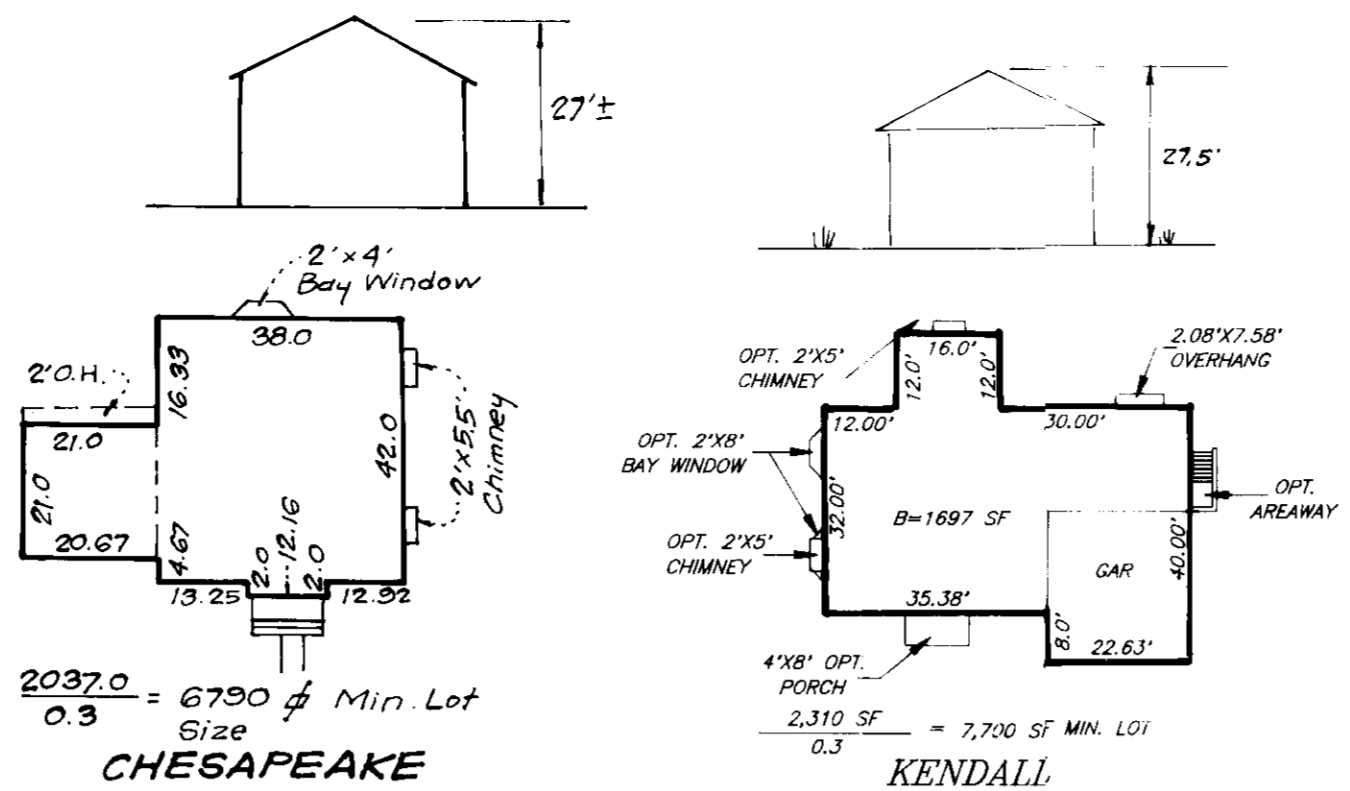


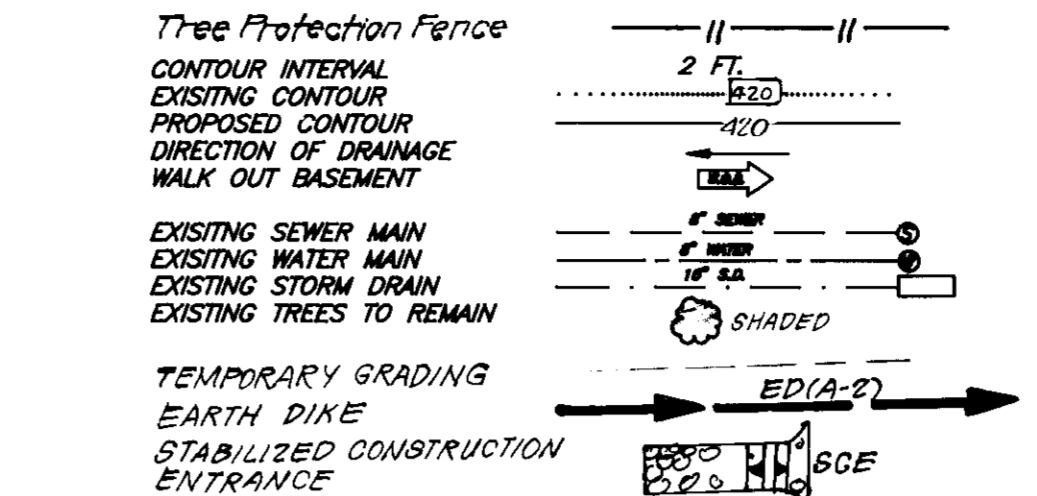
GENERAL NOTES:

- The contractor shall notify the Department of Public Works/Bureau of Construction Inspection at (301) 792-7272 at least five (5) working days 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.
- The existing topography shown was field run by Clark, Finerock and Sackett, Inc. on 5/28/92. The contour interval is 2 feet.
- The coordinates shown herein are based upon the Howard County Geographic Control which is based upon the Maryland State Plane Coordinate System - Howard County Monument Nos. 314, 002, 2, 314, 003, 3.
- Storm water management is provided per F-88-187.
- Any damage to county owned rights-of-way shall be corrected at the developer's expense.
- Utilities shown as existing are taken from approved water and sewer plan Contract #24-1779-D, approved road construction plans F-88-187, and actual field survey.
- All roadways are public and existing.
- Subject property is zoned: R-20 per 8-2-85 Comprehensive Zoning Plan.
- The total area included in this submission is: 0.847 Ac.
- The total number of lots included in this submission is: 2.
- For driveway entrance details, refer to Hb Co Design Manual Volume II Std Detail R-6.03.
- Improvements to property: Single Family Detached Unit.
- Reference File Numbers: 8-86-52, F-86-49, P-88-11, F-88-187.

LOT No.	ADDRESS CHART
	STREET ADDRESS
41	9960 Timber Knoll Lane
42	9964 Timber Knoll Lane



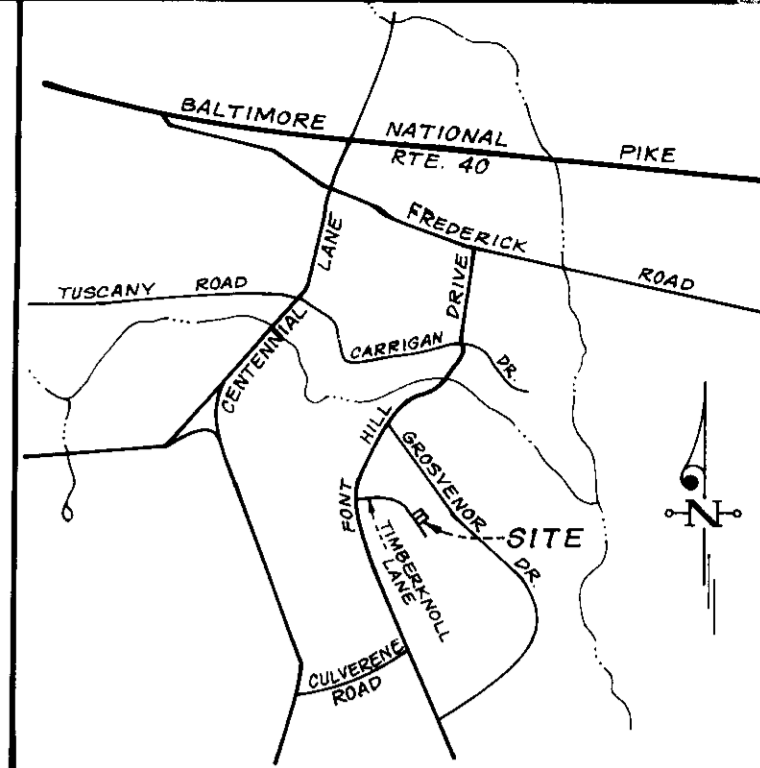
LEGEND



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. (992-2437).
 - All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
 - 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 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.
 - SITE ANALYSIS:**

Total Area of Site:	0.85 AC
Area Disturbed:	0.52 AC
Area to be vegetatively stabilized:	0.33 AC
Total Cut:	100 CY
Total Fill:	170 CY
 - Off-site Waste/Borrow Area Location:
 Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
 - All structures are to be constructed on an "as-built" basis, at random. Single Family Sediment Control, as shown below, shall be installed. N/A
 - All pipes to be blocked at the end of each day (see detail sheet). N/A
 - The total amount of silt fence = 0 -
- 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.



VICINITY MAP
SCALE: 1" = 2000'

NO.	REVISIONS	Date
1	Rev. Use of lot 42, Add hse. typical	10/28/93

PERMANENT SEEDING NOTES

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

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

SOIL AMENDMENTS: In lieu of soil test recommendations, use one of the following schedules:
 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and 800 lbs per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At the time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs./1000 sq.ft.).
 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq ft.) and 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 (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 (0.5 lbs./1000 sq ft.) of waving lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

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

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

TEMPORARY SEEDING NOTES

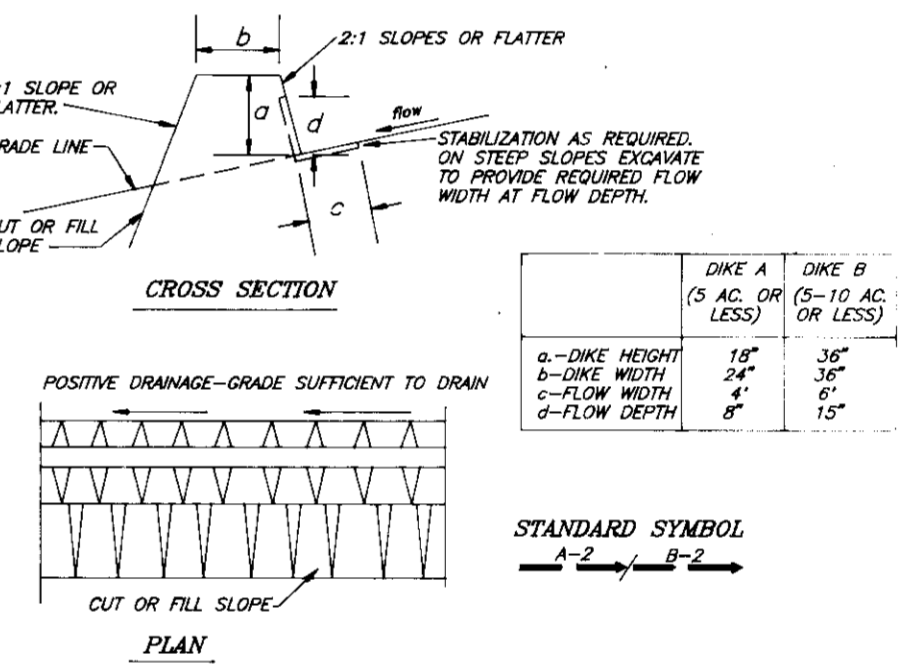
SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing, or other acceptable means before seeding, if not previously loosened.

SOIL AMENDMENTS: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs./1000 sq ft.).

SEEDING: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 1/2 bushel per acre of annual ryegrass (3.2 lbs./1000 sq ft.). For the period May 1 thru August 14, seed with 3 lbs per acre of waving lovegrass (0.7 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 acre (70 to 90 lbs./1000 sq ft.) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal./1000 sq ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal./1000 sq ft.) for anchoring.

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



CONSTRUCTION SPECIFICATIONS

- All dikes shall be compacted by earth moving equipment.
- The fill material for the embankment shall be free of roots and other woody vegetation as well as un-washed stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
- All cut and fill slopes shall be 2:1 or flatter.
- The stone used in the outlet shall be rip rap 4"-8" along with a 1" thickness of 2" aggregate placed on the up-grade side of the small rip rap or embedded filter cloth in the rip rap.
- Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

TYPE OF TREATMENT	CHANNEL GORGE	DIKE A	DIKE B
1	0.5-3.0 FEET	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0 FEET	SEED AND STRAW MULCH	SEED AND STRAW MULCH
3	5.1-8.0 FEET	SEED WITH MULCH OR SOG	EXPOSED SOG; 2" STONE LINED RIP-RAP 4"-8"
4	8.1-20 FEET	LINED RIP-RAP 4"-8"	ENGINEERING DESIGN

4. Stone to be 2 inch stone, or recycled concrete equivalent, in a layer of 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 least 8 inches thick 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.

EARTH DIKE (ED)

STONE OUTLET SEDIMENT TRAP (ST-V)



CONSTRUCTION SPECIFICATIONS

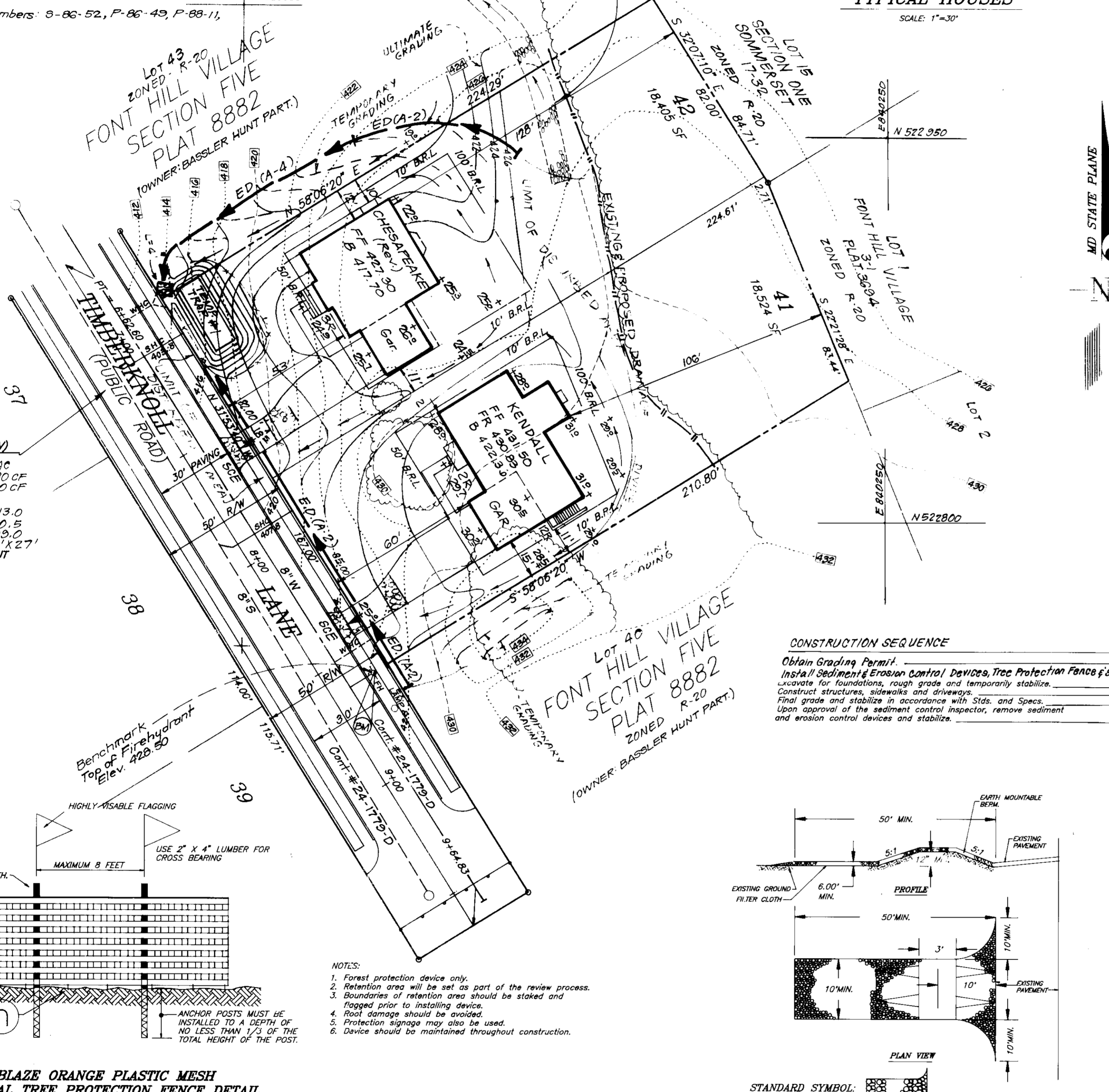
- STONE SIZE: USE 2" STONE OR RECYCLED CONCRETE EQUIVALENT. LENGTH, AS REQUIRED, BUT NOT LESS THAN 30 FEET (EXCEPT ON A RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- THICKNESS: NOT LESS THAN SIX (6) INCHES.
- WIDTH: TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- FILTER CLOTH: WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE.
- SURFACE WATER: ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE TURED ACROSS THE ENTRANCE. IF PAVING 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 CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WASHING: WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO OPERATING OVER PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH GRAB INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAINFALL.

CONSTRUCTION SEQUENCE

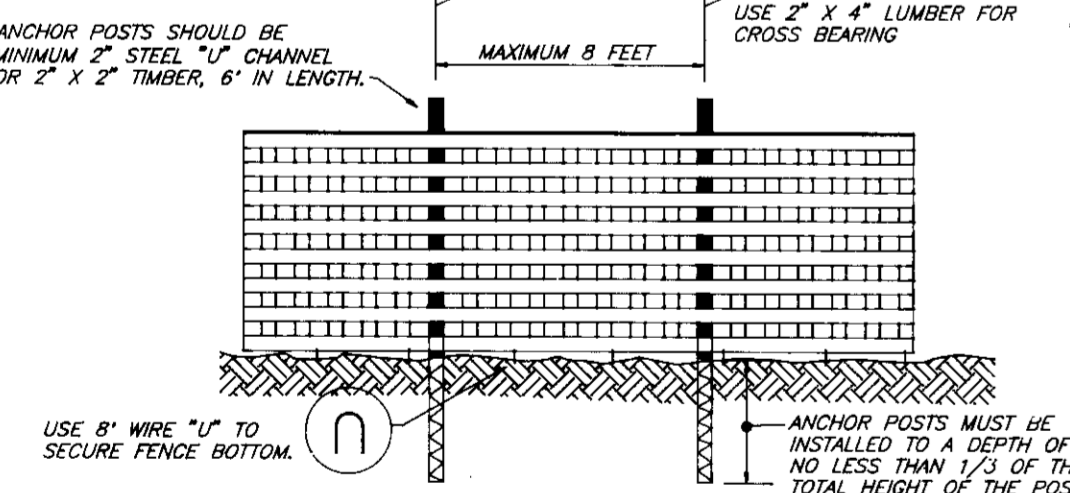
Obtain Grading Permit	No. OF DAYS
Install Sediment Erosion Control Devices, Tree Protection Fence & Stabilize	7
Locate for Foundations, rough grade and temporary structures	14
Construct structures, sidewalks and driveways	60
Final grade and stabilize in accordance with Specs. and Specs.	14
Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize.	7

CONSTRUCTION SPECIFICATIONS FOR ST-V

- Area under embankment shall be cleared, grubbed and stripped of any vegetation on a root mat.
- The soil area shall be cleared.
- The fill material for the embankment shall be free of roots and other woody vegetation as well as un-washed stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
- All cut and fill slopes shall be 2:1 or flatter.
- The stone used in the outlet shall be rip rap 4"-8" along with a 1" thickness of 2" aggregate placed on the up-grade side of the small rip rap or embedded filter cloth in the rip rap.
- Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.



TEMPORARY TRAP NO. 1 (ST-V)
 DRAINAGE AREA: 0.80 AC
 STORAGE REQUIRED: 1080 CF
 STORAGE PROVIDED: 1080 CF
 DEPTH: 3'
 TOP OF STONE WEIR: 413.0
 CLEANOUT ELEV.: 410.5
 BOTTOM ELEV.: 410.5
 BOTTOM DIMENSIONS: 9' x 27'
 1:1 SIDE SLOPES IN CUT
 L=4'



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 storage should be avoided.
 - Protection signage may also be used.
 - Device should be maintained throughout construction.

Reviewed for HOWARD S.C.D. Name _____ and meets Technical Requirements _____
 Signature _____ Date 7/31/92
 US Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature _____ Date 7/31/92
 Approved

STABILIZED CONSTRUCTION ENTRANCE (SCE)



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 Signature _____ Date 8/10/92
 COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY, DEPT. OF PLANNING & ZONING
 Signature _____ Date 8/14/92
 DIRECTOR

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC WORKS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Signature _____ Date 8/10/92
 DIRECTOR

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 6/17/92

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 _____ Date 6-17-92

CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MNSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 • BALTO. • (301) 511-8000 • WASH.

DESIGNED	VLP K/W/M	SCALE	1" = 30'
DRAWN <td>LAI <td>DRAWING <td>10F/1</td> </td></td>	LAI <td>DRAWING <td>10F/1</td> </td>	DRAWING <td>10F/1</td>	10F/1
CHECKED <td>VLP K/W/M <td>JOB NO. <td>92-089</td> </td></td>	VLP K/W/M <td>JOB NO. <td>92-089</td> </td>	JOB NO. <td>92-089</td>	92-089
DATE <td>6/92 <td>FILE NO. <td>92-089 X</td> </td></td>	6/92 <td>FILE NO. <td>92-089 X</td> </td>	FILE NO. <td>92-089 X</td>	92-089 X

SITE DEVELOPMENT AND SEDIMENT AND EROSION CONTROL PLAN
 LOTS 41 AND 42
FONT HILL VILLAGE
 SECTION FIVE
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 FOR: BASSLER HUNT PARTNERSHIP
 P.O. BOX 1447
 ELLICOTT CITY, MD 21041-1447