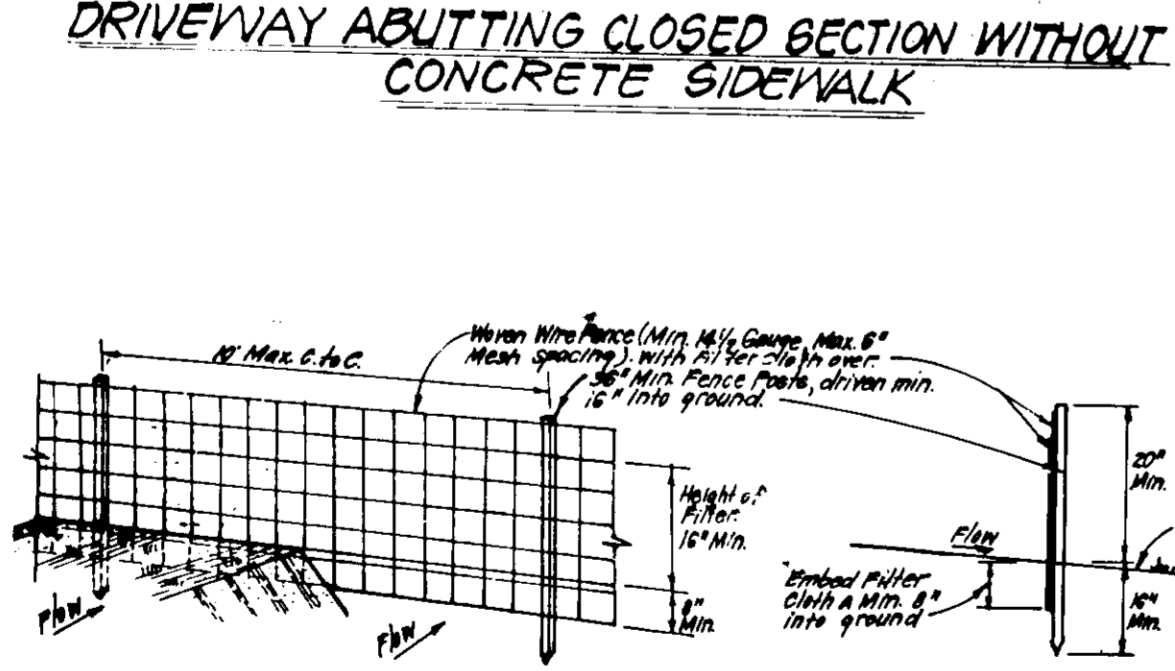
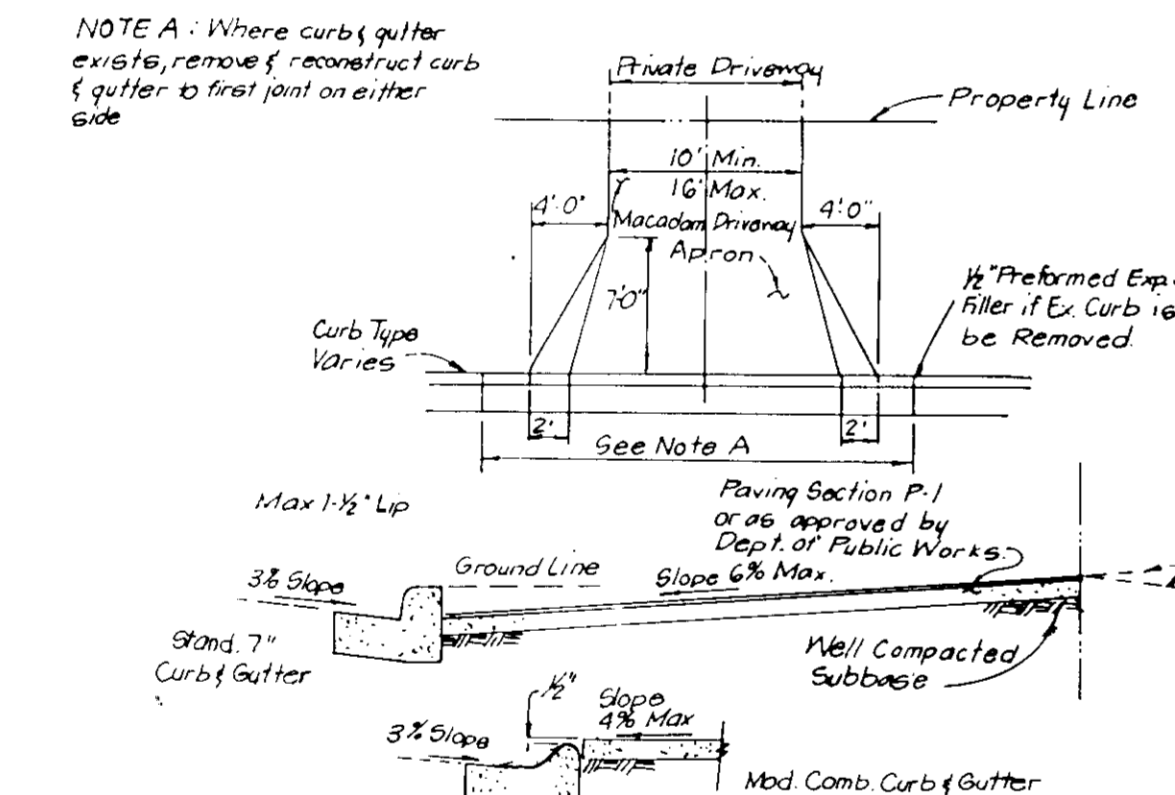
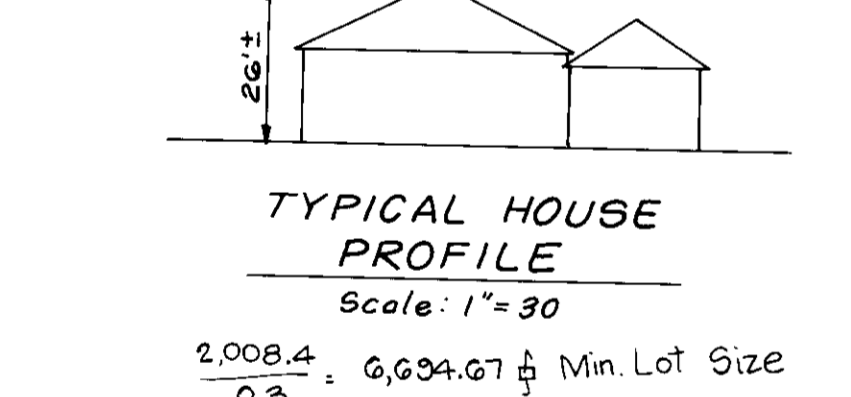
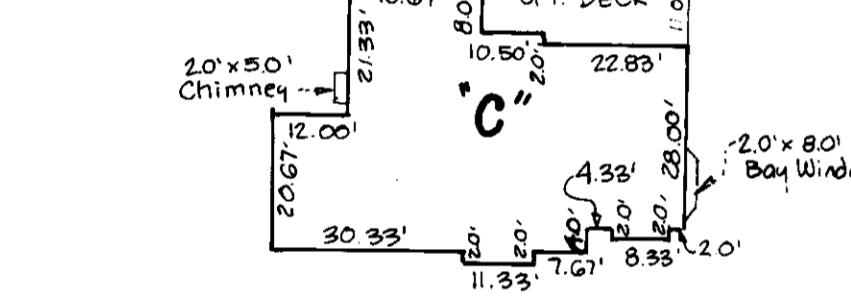


PERMITS CONTROL NOTES

- 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, or 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 perimeter in accordance with Vol. 1, Chapter 21 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 SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 50) and (Sec. 50), temporary seedings (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.
- 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: 0.453 Acres
Area Disturbed: 0.20 Acres
Area to be roofed or paved: 0.10 Acres
Area to be vegetatively stabilized: 0.10 Acres
Total Cut: 29.2 Cu. Yds
Total Fill: 29.2 Cu. Yds
Offsite waste/borrow area location: undetermined
- 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 DPM 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 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.
- If houses are to be constructed on an "As-Built" basis, at random, Simple Lot Sediment Control as shown below shall be implemented.
- All pipes to be blocked at the end of each day (see detail "Detail" N/A).
- The total amount of straw bale dikes/silt fence equals 225 L.F.

CONSTRUCTION SEQUENCE:

Activity	No. of Days
A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.	7
B. Excavate for Foundations and Rough Grade & Temporarily Stabilize.	30
C. Construct Structures, Sidewalks and Driveways.	120
D. Final Grade and Stabilize in accordance with Stds. & Specs.	30
E. Upon approval of the sediment control inspector, remove sediment and erosion controls and stabilize.	7



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: [Signature] DATE: 3-30-90

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 DIRECTOR: [Signature] DATE: 4/12/90

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] DATE: 3/27/90

CHIEF BUREAU OF ENGINEERING
 [Signature] DATE: 3-27-90

No.	REVISION	Date
1	Rev. hse & grad lot 93 from "B" to "C" Reversed	2.7.90
2	Rev. hse & grad lot 93 from "C" (Rev.) to Gibbons	2.14.92

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, disking 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 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Narrow 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 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. Narrow 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 80 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 of well anchored straw mulch and seed acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw. 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 1½ 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 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 gallon per acre (8 gal/1000 sq ft) 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 restituted where a short-term vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, disking 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 24 bushel per acre of annual ryegrass (3.2 lbs/1000 sq ft). For the period May 1 thru 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 seed.

Mulching - Apply 1½ 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 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 acre (8 gal/1000 sq ft) for anchoring.

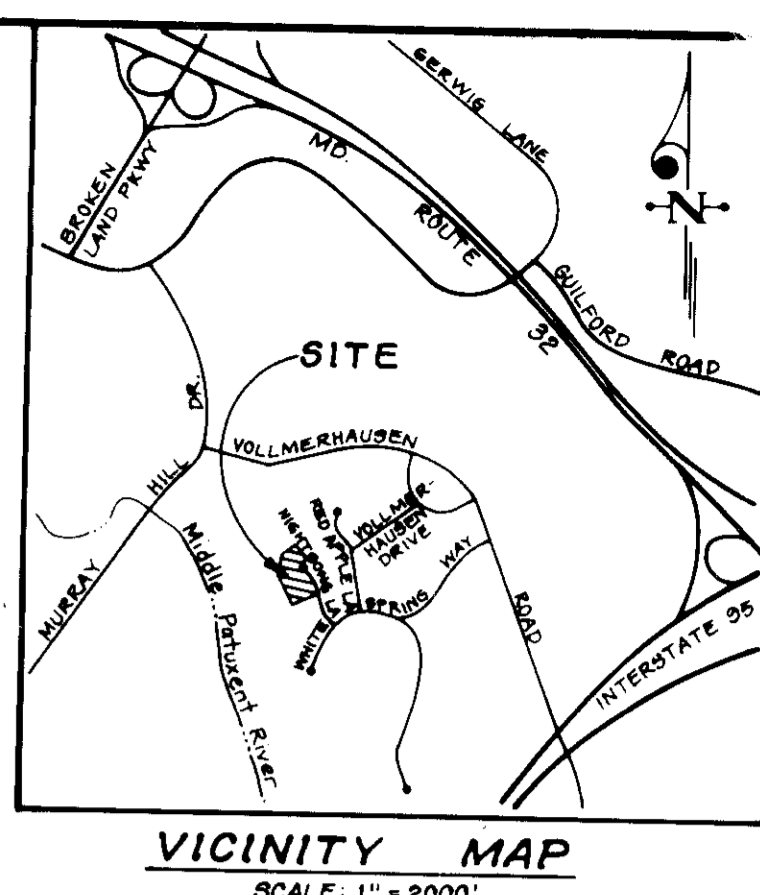
Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for lists and methods not covered.

LEGEND

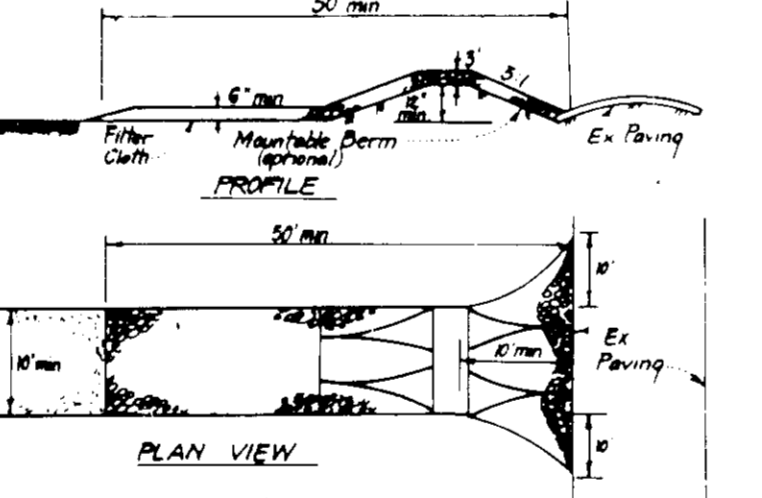
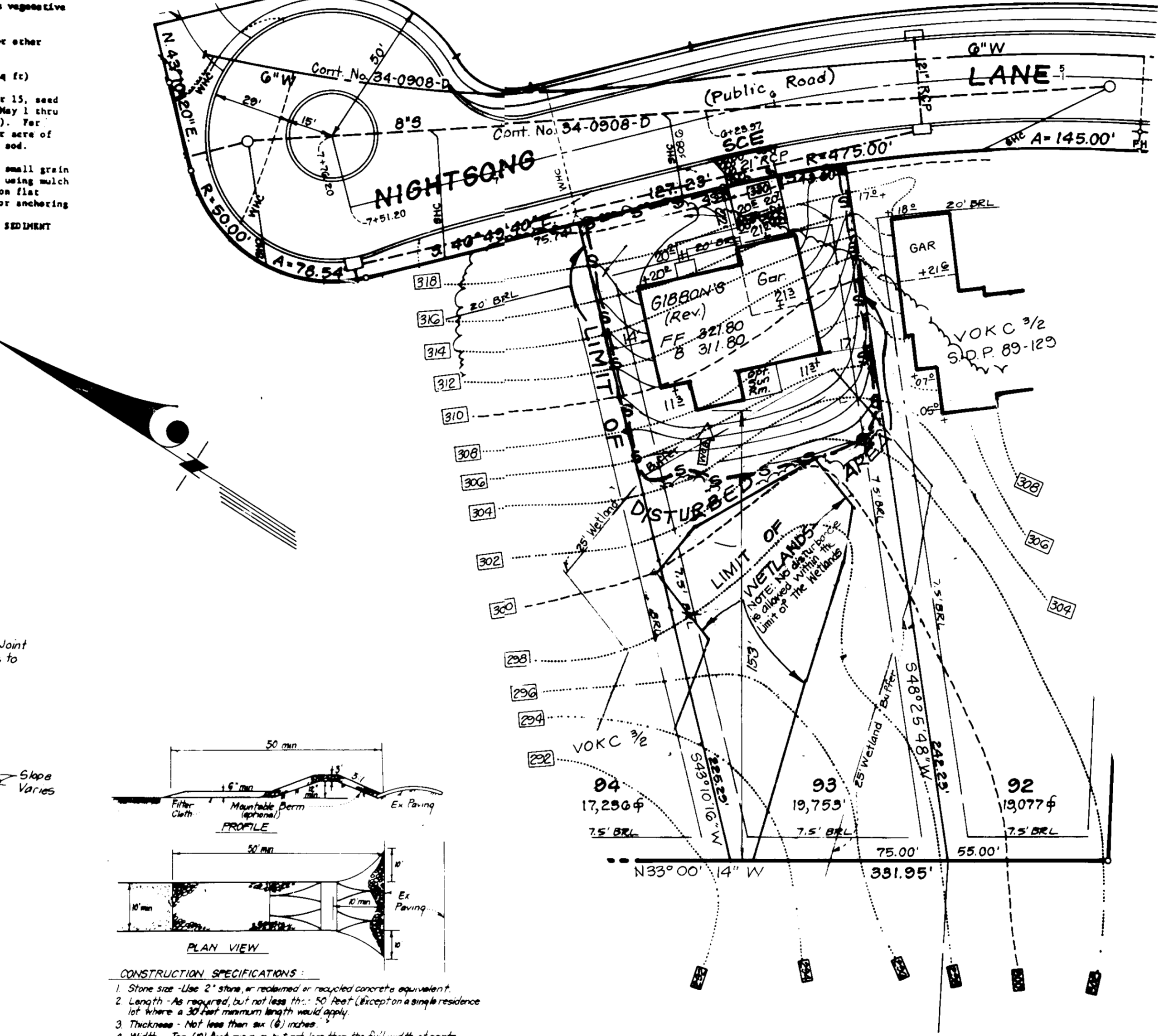
1. Contour Interval 2 Ft
2. Existing Contour
3. Proposed Contour 290
4. Spot Elevation +98 ±
5. Direction of Drainage
6. Existing Trees to be Saved
7. Silt Fence
8. Stabilized Construction Entrance
9. Steep Slopes
10. Walk-Out Basement

SPECIAL NOTES

1. Approved Road Construction Plans shall be used for all public utilities.
2. Public Water and Sewer shown for reference only. For more detailed information, see Water & Sewer Plans Contract No. 34-0908-D.
3. The water and sewer house connections not included in a "Developer's Agreement" shall conform to Howard County Plumbing Code. The on-site WWC shall be 1" copper and the SHC shall be 4" iron.
4. The wetland buffer located on this plan does not affect the initial construction of a residential unit on the lot. It does prohibit subsequent clearing, grading or construction in the buffer area. Maintenance of residences, landscaping and utilities is permitted.
5. Reference File Nos: F-88-274.



LOT #	GROSS AREA	MINUS FLOOD PLAIN	MINUS PIPE STEM	Ex. Steep Slope Area to remain (if applicable)	NET LOT AREA	CREATED Steep Slope #	Plus up to 10% of allowable Min. Lot Size Credit for Created Steep Slope	Min. Lot Size
93	19,753 sq ft	0	0	0	19,753 sq ft	639 #	630 #	19,753 sq ft



- CONSTRUCTION SPECIFICATIONS:**
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 length would apply).
 3. Thickness - Not less than six (6) inches.
 4. Width - Ten (10) feet minimum, but not less than the full width of points where degree or apron 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 entrance shall be piped across the entrance. If piping is impractical, a rubble dam with 5/8" slopes will be permitted.
 7. Maintenance - The entrance shall be maintained in a condition which will prevent trapping or flowing of sediment into public rights-of-way. It may require periodic top dressing with additional stone or concrete. Sediment and debris must be removed from all areas used to trap sediment. Sediment and debris must be removed into public rights-of-way must be removed immediately.
 8. Warning - Warning shall be obtained to remove sediment prior to entrance into public rights-of-way. When warning is required, it shall be done in an area stabilized with stone and which stands up to an approved sediment trapping device.
 9. Periodic inspection and needed maintenance shall be provided after each run.

OPEN SPACE LOT 183
 V.O.C. 3/2
 ZONED R-20
 PLAT 4015

DEVELOPER'S/BUILDER'S CERTIFICATE

"I hereby certify that all development and construction will be done according to the plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources 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 an approved practice."

Signature: [Signature] Date: 10/19/89

Reviewed for HOWARD COUNTY S.C.D. and meets Technical Requirements
 [Signature] 3/19/91
 U.S. Soil Conservation Service

GENERAL NOTES

1. The Land included is zoned: NTSFLD
2. The coordinates shown hereon are based upon traverse controls for Columbia established by Maps, Inc. in 1965 and Purdum and Jeschke in 1968, which controls were filed to the Md. Bureau of Control Surveys monuments and to U.S. coast and Geodetic survey monuments in the Columbia area.
3. All roads are public and existing.
4. Any damage to county owned rights-of-way to be corrected at Developer's expense.
5. Total area included is 0.453 Acres.
6. Total number of lots is 1.
7. The contractor or developer shall contact the Construction Inspection/Survey Division 24 hours in advance of commencement of work at 792-2630.
8. Maximum building coverage is 30% per lot.
9. Existing topo was field run by Clark, Finetrock & Sackett, Inc. 6-30-88.
10. Storm water Management provided under F-80-87.
11. Min. building setback requirements from property lines and right of way of any public road or street to be in accordance with the recorded final development plan criteria Phase 160-A-1, Part II.
12. Wetland Delineation provided by Exploration Research, Inc.

ADDRESS CHART

LOT No.	STREET ADDRESS
93	2525 Night Song Lane

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 Soil Conservation District.

Jeffrey L. Schwab
 Date: 10/19/89

OWNER/DEVELOPER HOWARD RESEARCH & DEVELOPMENT, CORP. COLUMBIA, MARYLAND	SUBDIVISION NAME-COLUMBIA VILLAGE OF KINGS CONTRIVANCE PLAT NO. 8112 BLOCK 21 ZONE TARDON MARLEIC DIST. CENSUS TR RESEARCH DISTRICT	RECT./AREA 5/2 42 5th 6062	LOT 93
CLARK • FINEBROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS 7135 MINSTREL WAY • COLUMBIA MD 21045 • (410) 981-7800		DESIGNED KJW/JME	SCALE 1" = 30'
SITE DEVELOPMENT & SEDIMENT EROSION CONTROL PLAN LOT 93		DRAWN BAK	DRAWING 1 OF 1
COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 3 AREA 2 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND		CHECKED BAK	JOB NO. 88-006
DATE August 1989	FOR: CHRIS STUBBS, INC. P. O. Box 2080 Columbia, Maryland 21045	FILE NO. 88-006	