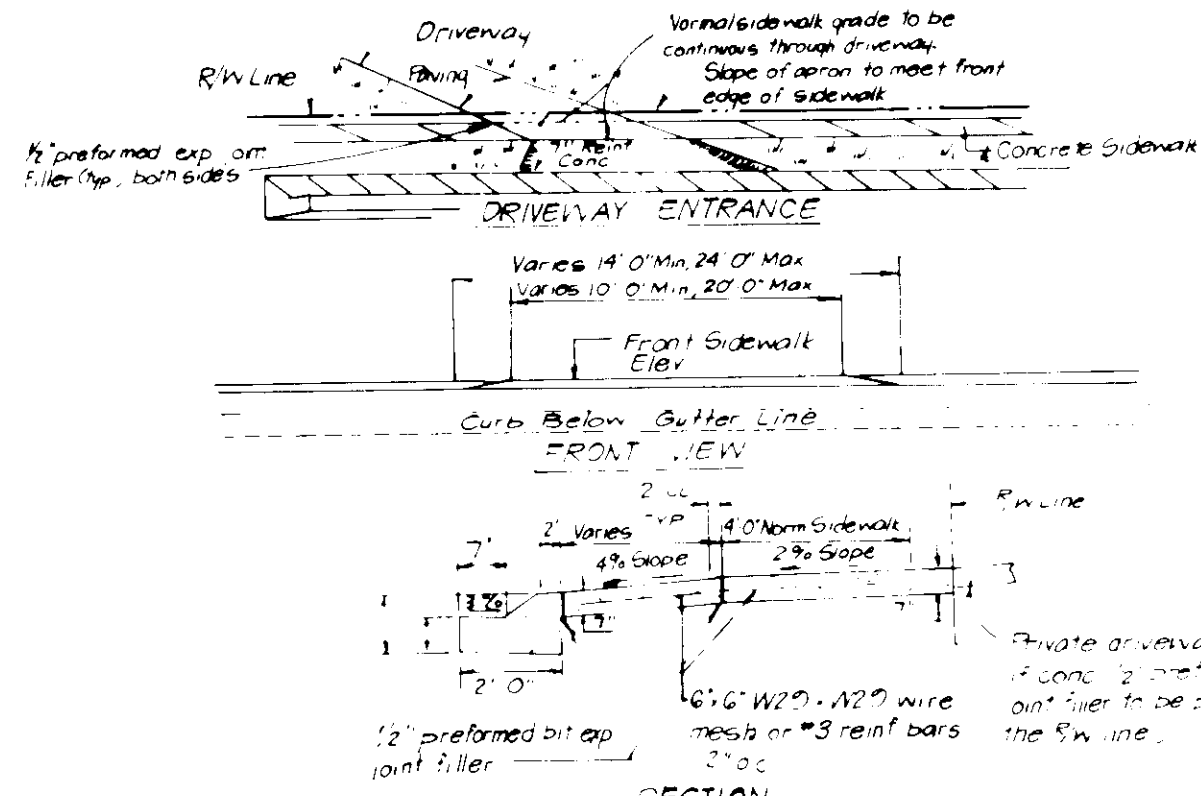
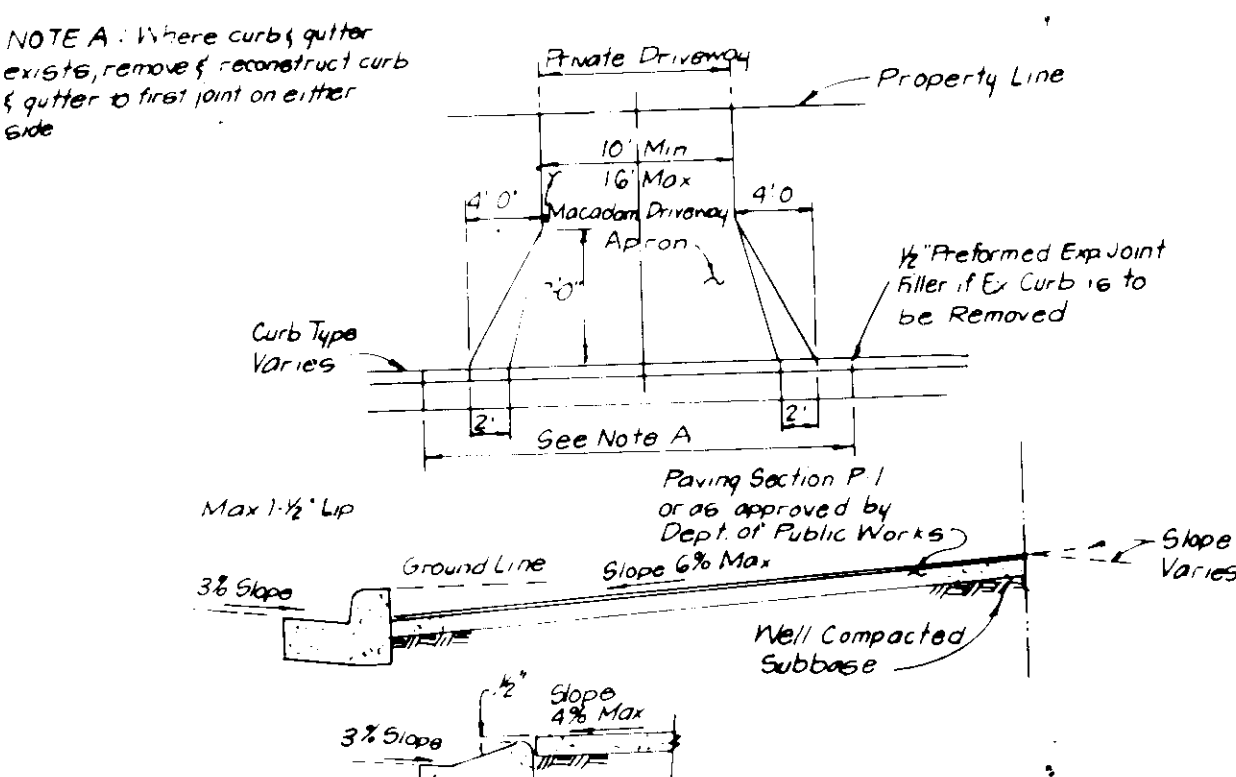


TYPICAL HOUSES
(1" = 80')
NOTE: All units have 8' eaves front of rear.



DRIVEWAY ABUTTING CLOSED SECTION WITH MODIFIED COMB CURB & GUTTER & SIDEWALK



DRIVEWAY ABUTTING CLOSED SECTION WITHOUT CONCRETE SIDEWALK

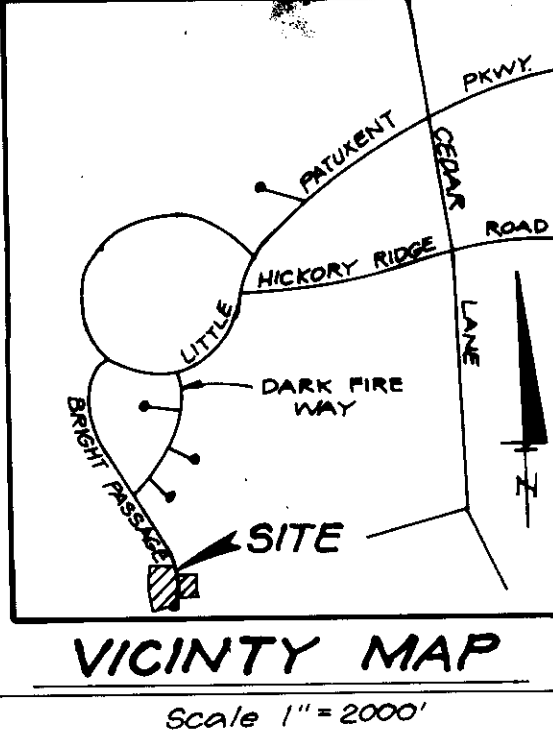
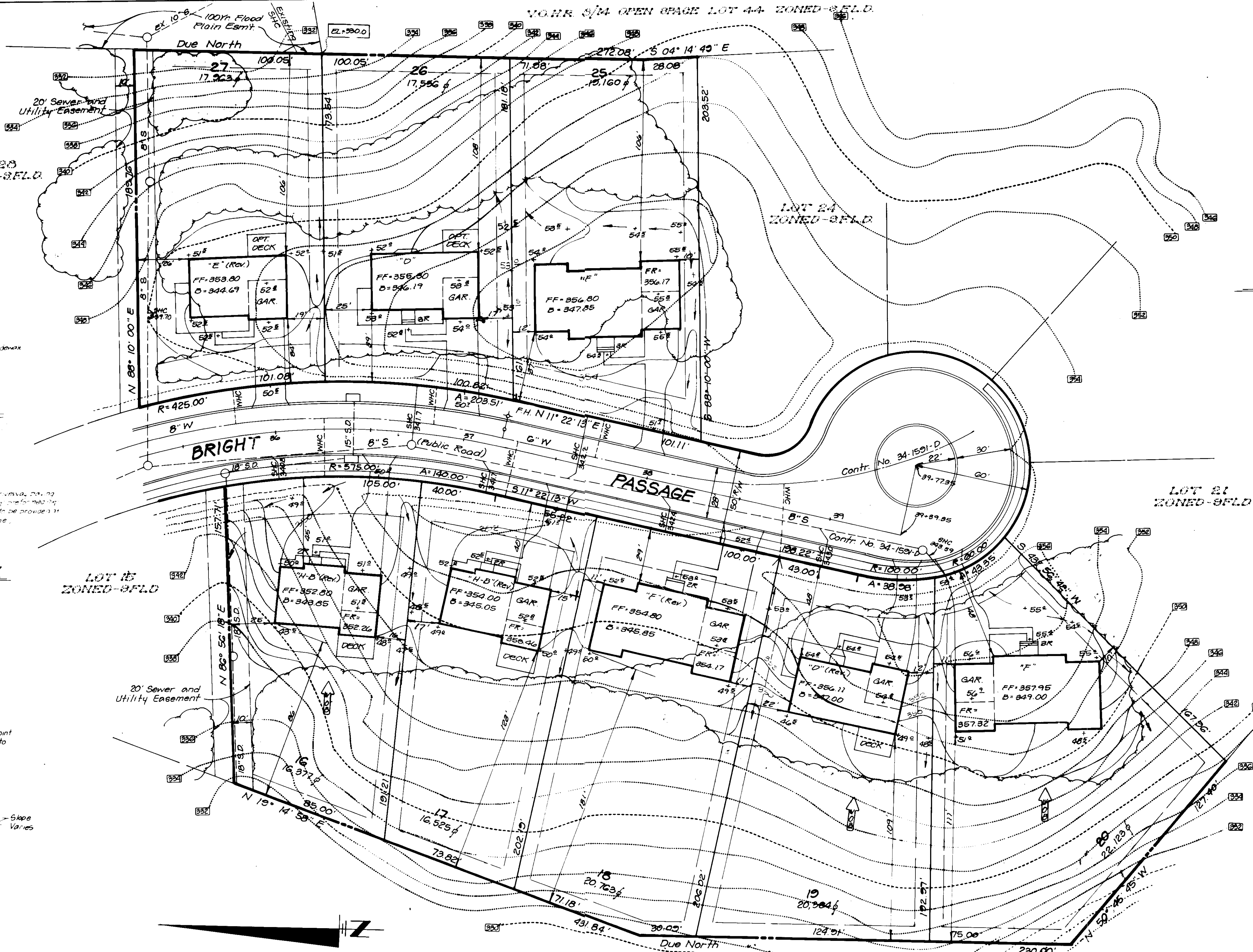
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 8-24-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE: 8-27-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 8-24-87

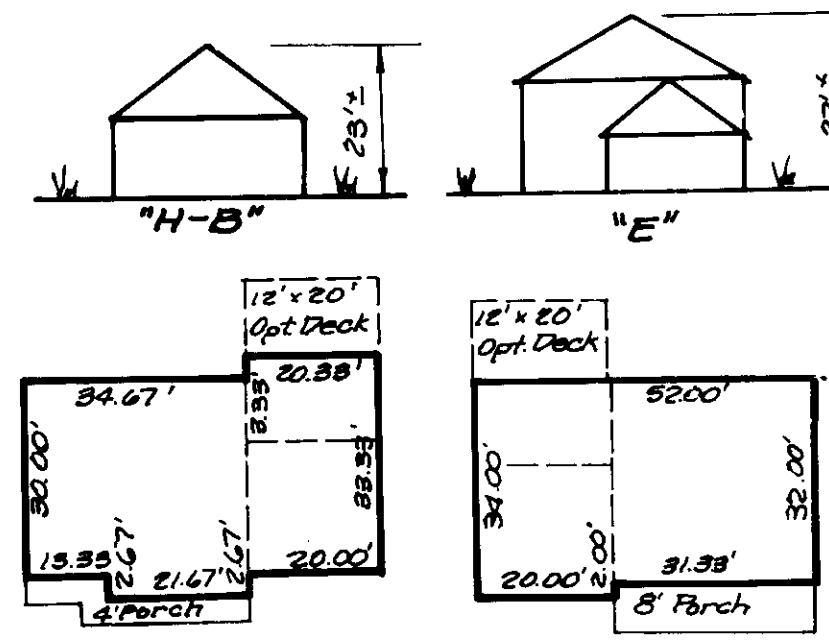
CHIEF BUREAU OF ENGINEERING
DATE: 8-21-87

APPROVED:
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 8-7-87



LEGEND

- Contour Interval: 2 FT.
- Existing Contour: ---
- Proposed Contour: - - - -
- Spot Elevation: +10'
- Direction of Drainage: --->
- Walk out Basement: ---
- Trees to be Saved: (Tree symbol)
- Existing Trees: (Tree symbol)
- Flood Plain Elev. (EL. 150.0)



TYPICAL HOUSES
(1" = 80')
NOTE: All units have 8' eaves front of rear.

ADDRESS CHART

Lot	Street Address
16	1186 1/2 Bright Passage
17	1186 1/2
18	1187 1/2
19	1187 1/2
20	1188 1/2
25	1187 1/2
26	1186 1/2
27	1186 1/2 Bright Passage

NOTE:
The basement for Lots 16, 17 & 18 are set of minimum sewer elevations. Sewer House Connections should be checked at the property line, before starting house construction.

Building Restriction Lines
Front - 20'
Sides & Rear - 75'

YOUR 3/4 OPEN SPACE LOT 44 ZONED-S.F.L.D.

GENERAL NOTES

- The land included is zoned: New Town S.F.L.D.
- Coordinates established by Maps Inc. in 1965 and Purdom & Jeschke in 1968, which were tied to the Maryland Bureau of Control Surveys monuments and to U.S. Coast and Geodetic Survey monuments in the Columbia Area.
- All roads are public and existing.
- Any damage to county owned right-of-ways to be corrected at developer's expense.
- Total area included: 3.463 Acres
- Total number of lots: 8
- Reference Final Development Plan: Criteria Phase 181 P. VII Recorded in 3054 A-893 to 900
- Maximum lot coverage is 30%.
- The Contractor or Developer shall contact the Construction Inspection/Survey Division, 24 hours in advance of commencement of work at 792-2630

SPECIAL NOTES

- Approved Road Construction Plans shall be used for all public utilities.
- The water & sewer house connections not included in a 'Developer's Agreement' shall conform to Howard County Plumbing Code. The on-site WHC shall be 1" copper and the SHC shall be 4" iron.
- Stormwater management provided for in the Village of Hickory Ridge, F 89-120
- Public water and sewer shown for reference only. For more detailed information - See water and sewer Plans Contract No. 94-1591D

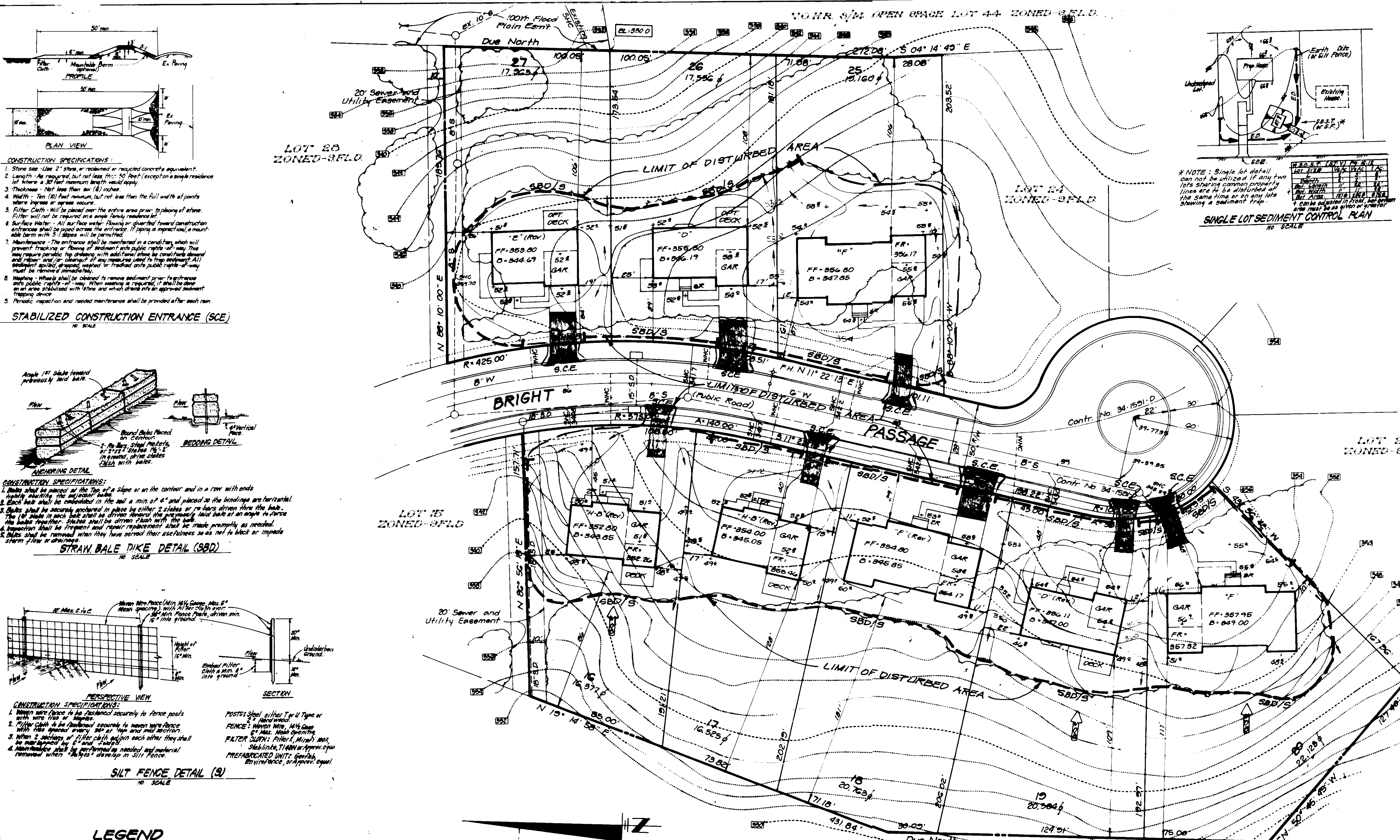


Subdivision Name: Columbia Village of Hickory Ridge	Block/Area: 8 14	Lots: 16-20 & 25-27
Proj. No: 777	Blk. No: 16	Zone: S.F.L.D.
Water Code: E-27	Sever Code: 6640000, 6891000 & 6890000	

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

2700 MANSFIELD WAY • COLUMBIA, MD 21046 • (410) 271-2000 • (410) 271-1800 • WASH.

DESIGNED: LUG	SITE DEVELOPMENT PLAN LOTS 16-20, 25-27 COLUMBIA VILLAGE OF HICKORY RIDGE SECTION 3 AREA 14 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE: 1" = 30'
DRAWN: BAL		DRAWING: 1 of 2
CHECKED: JME		JOB NO: 87-077
DATE: JUNE, 1987		FILE NO: 87-077x
		FOR: WILLIAMSBURG BUILDERS P.O. BOX 1018 COLUMBIA, MARYLAND 21044



PERMANENT SEEDING NOTES

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

Soil Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

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. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 urea-form 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 (1.6 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 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 unrotted small grain straw immediately after seeding. Anchor 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 feet or higher, use 348 gal per acre (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.

Soil Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

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

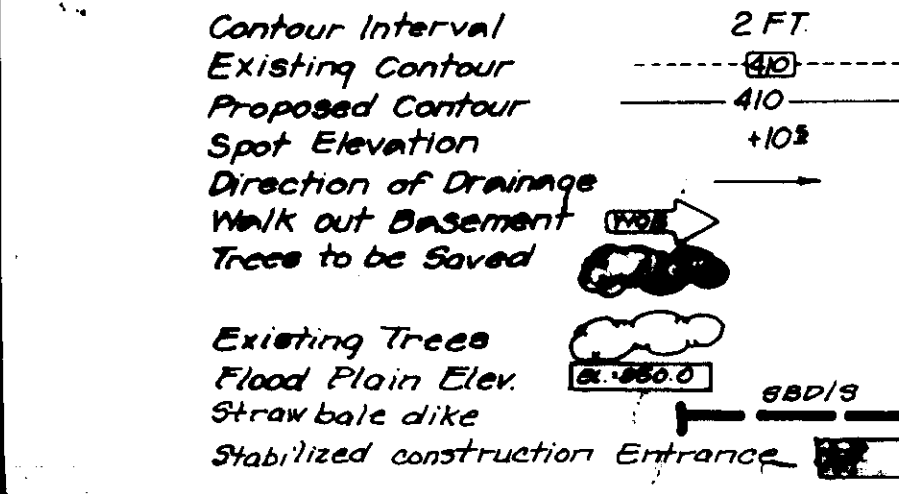
Seeding: For periods March 1 thru April 30 and from August 1 thru November 15, seed with 20 bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (0.1 lbs/1000 sq ft). For the period November 16 thru February 28, protect 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 unrotted small grain straw immediately after seeding. Anchor 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 feet 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 rate and methods not covered.

- SEEDING 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. (992-2437)
 - 2) All vegetative and structural practices are to be installed according to the provisions of this plan and also to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - 3) Following initial soil disturbance or redisturbances, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, ditches, 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 around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
 - 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 (Sec. 51) and (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding rates 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	3.468 Acres
Area Disturbed	1.77 Acres
Area to be roofed or paved	0.69 Acres
Area to be vegetatively stabilized	1.87 Acres
Total Cut	Cu. yds
Total Fill	Cu. yds
Off-site waste/borrow 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 DWM 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) If houses are to be constructed on a "no-ditch" basis, at random, Single Lot Sediment Control as shown below shall be implemented.
 - 12) All pipes to be blocked at the end of each day (see detail 18/E).
 - 13) The total amount of straw bale dikes/silt fence equals 18/E L.F.



CONSTRUCTION SPECIFICATIONS:

1. Strips shall be placed at the top of a slope or on the contour and in a row with ends slightly overlapping the adjacent strips.
2. Each strip shall be consolidated in the soil a min. of 4" and placed so the binding is horizontal.
3. Strips shall be secured in place by either 2 stakes or re-bars driven thru the bale. The top stake in each bale shall be driven toward the previously laid bale at an angle to the face of the bale. Strips shall be driven close with the bale.
4. Inspectors shall be frequent and repair replacement shall be made promptly as needed.
5. Strips shall be removed when they have served their usefulness as as not to block or impede stream flow or drainage.

STRAW BALE DIKE DETAIL (SBD)

ANCHORING DETAIL

CONSTRUCTION SPECIFICATIONS:

1. Strips shall be placed at the top of a slope or on the contour and in a row with ends slightly overlapping the adjacent strips.
2. Each strip shall be consolidated in the soil a min. of 4" and placed so the binding is horizontal.
3. Strips shall be secured in place by either 2 stakes or re-bars driven thru the bale. The top stake in each bale shall be driven toward the previously laid bale at an angle to the face of the bale. Strips shall be driven close with the bale.
4. Inspectors shall be frequent and repair replacement shall be made promptly as needed.
5. Strips shall be removed when they have served their usefulness as as not to block or impede stream flow or drainage.

STRAW BALE DIKE DETAIL (SBD)

ANCHORING DETAIL

CONSTRUCTION SPECIFICATIONS:

1. Strips shall be placed at the top of a slope or on the contour and in a row with ends slightly overlapping the adjacent strips.
2. Each strip shall be consolidated in the soil a min. of 4" and placed so the binding is horizontal.
3. Strips shall be secured in place by either 2 stakes or re-bars driven thru the bale. The top stake in each bale shall be driven toward the previously laid bale at an angle to the face of the bale. Strips shall be driven close with the bale.
4. Inspectors shall be frequent and repair replacement shall be made promptly as needed.
5. Strips shall be removed when they have served their usefulness as as not to block or impede stream flow or drainage.

STRAW BALE DIKE DETAIL (SBD)

ANCHORING DETAIL

LEGEND

Contour Interval 2 FT

Existing Contour (dashed line)

Proposed Contour (solid line)

Spot Elevation +10'

Direction of Drainage (arrow)

Walk out Basement (rectangle)

Trees to be Saved (cloud)

Existing Trees (circle with cross)

Flood Plain Elev. (dashed line)

Straw bale dike (rectangle with cross-hatch)

Stabilized construction Entrance (rectangle with cross-hatch)

CONSTRUCTION SEQUENCE

No. of Days	Description
14	Obtain grading permit & install sediment & erosion control devices & stabilize.
30	Excavate for foundations and rough grade & temporarily stabilize.
120	Construct structures, sidewalks & driveways.
30	Final grade & stabilize in accordance with std's & specs.
14	Upon approval of the sediment control inspector, remove sediment & erosion controls & stabilize.

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 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 are deemed necessary."

Signature of Developer/Builder: *David R. Smith* Date: 7-13-87

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.

Signature: *G. Nelson* Date: 7-13-87

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT

Signature: *John M. Boyd* Date: 8-24-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

Signature: *John M. Boyd* Date: 8-27-87

Signature: *John M. Boyd* Date: 8-24-87

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Signature: *James M. Wilson* Date: 8-18-87

Signature: *James M. Wilson* Date: 8-21-87

APPROVED DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND

DATE: 8-7-87

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

Signature: *Stephanie J. Smith* Date: 8-18-87

REVIEWED FOR HOWARD COUNTY S.C.D.

Name: *David R. Smith* Date: 8-18-87

Signature: *David R. Smith* Date: 8-18-87

U.S. Soil Conservation Service

CLARK • FINEFROCK & SACKETT, INC.

ENGINEERS • PLANNERS • SURVEYORS

DESIGNED: JME

DRAWN: LIG

CHECKED: JME

DATE: JUNE, 1987

SEDIMENT & EROSION CONTROL PLAN
LOTS 16-20, 25-27
COLUMBIA
VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 14
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR: WILLIAMSBURG BUILDERS
P.O. BOX 1018
COLUMBIA, MARYLAND 21044

SCALE: 1" = 30'

DRAWING: 2 of 2

JOB NO: 87-077

FILE NO: 87-077E

SDP-88-11