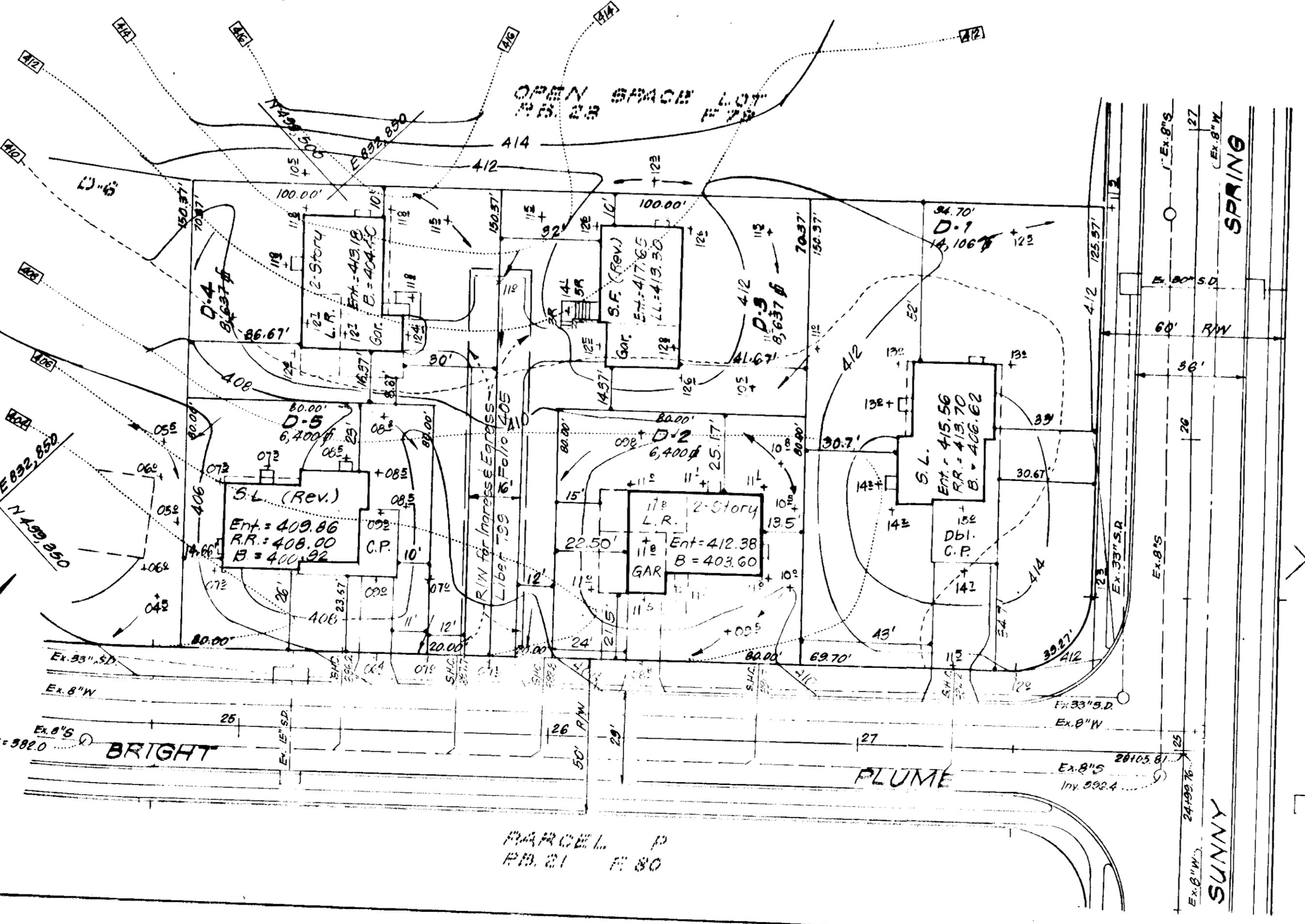
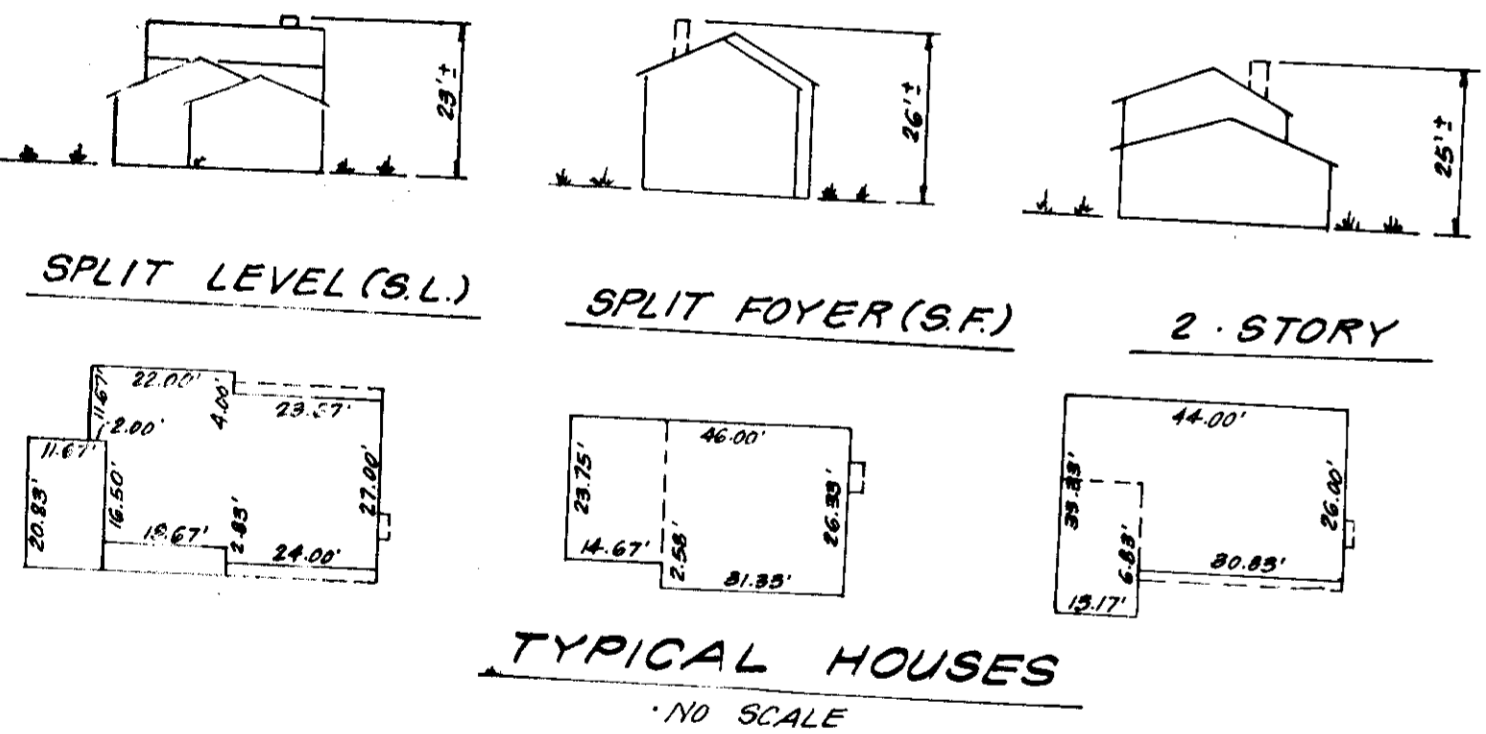


LEGEND

1. Contour Interval	2 FT
2. Existing Contours	--- 97.6 ---
3. Proposed Contours	--- 97.6 ---
4. Spot Elevations	+ 78.4
5. Direction of Drainage	→
6. Yard Requirements	
7. Walk Out Basement	W.O.B.
8. Timber Retaining Wall	-----

Front: 20 Ft. on 50' Wide Street,
30 Ft. on 60' Wide Street.
Back: 7.5' (Min.)



BUFFER PLANT SCHEDULE

KEY	PLANT NAME	SIZE
○	PIRUS NIGRA	6-10' HT
○	PIRUS NIGRA	6-8' HT
○	PIRUS STROBUS	8-10' HT
○	PIRUS STROBUS	6-8' HT
○	TSUGA CANADENSIS	6-10' HT
○	TSUGA CANADENSIS	4-8' HT
○	CRATAEGUS OXYCAUTHA SUBERBA	6-10' HT
○	PRUNUS YERGENSIS	6-10' HT

- GENERAL NOTES**
- The land included in this plan is zoned New Town (S.F.M.D.)
 - The lots shown on this plan are covered by Final Development Plan Phase 100-A recorded in Plat Book 20, Folio 148 to 157
 - All coordinates are based on Maryland State Grid System. Elevations are based on the U.S. Coast and Geodetic Survey Mean Sea Level Datum of 1929
 - The Area covered in this submission is located on Tax Map No. 35
 - The Total area included in this plan is 8.08 Acres.
 - All Road ways shown are public and existing.
 - Any damage to County owned Right of Ways or paving shall be corrected at the Developer's expense.

JOSEPH M. BOGDAN 12-27-76

W.C. TALLEY 12-27-76

APPROVED
DIVISION OF LAND DEVELOPMENT
11-22-76
Thomas H. Hines

RONALD S. SACKETT

CLARK • FINFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS

1000 WASHINGTON BLVD. SUITE 1000
BETHESDA, MARYLAND 20814

DESIGNED BY: SETH DIMITROVSKI, PH.D.
1000 WASHINGTON BLVD. SUITE 1000
BETHESDA, MARYLAND 20814

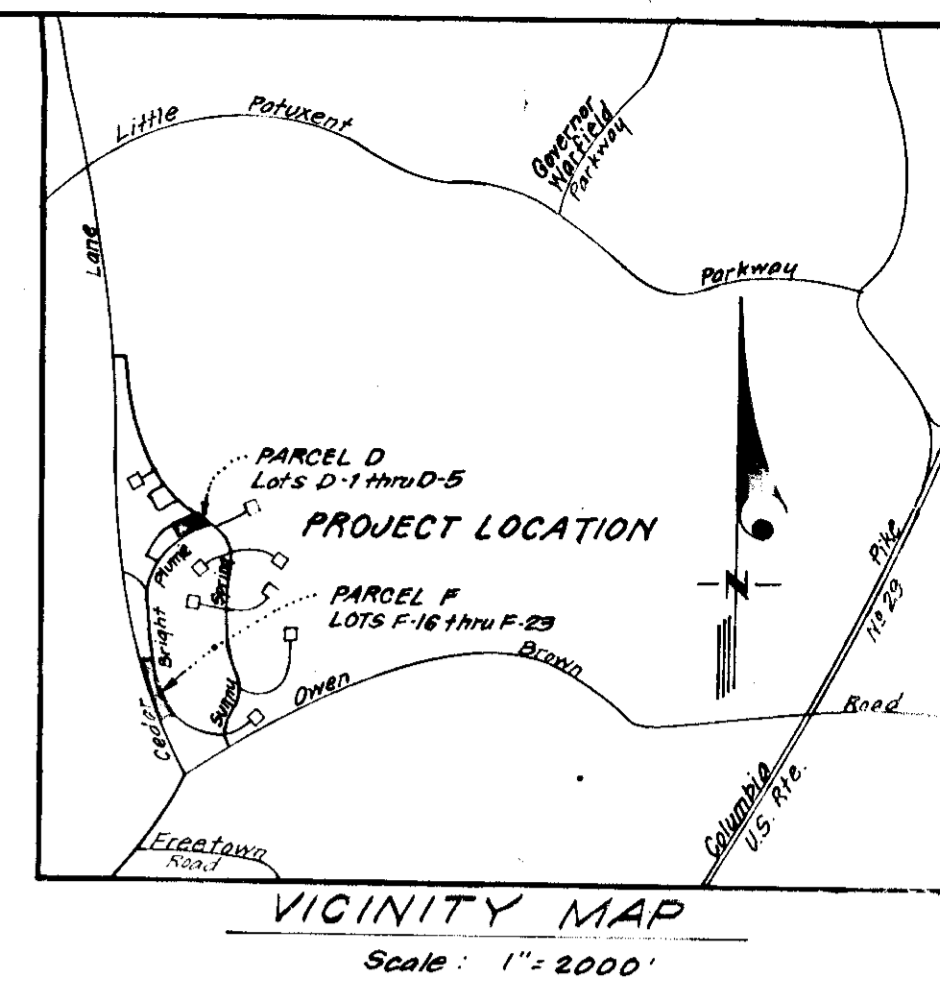
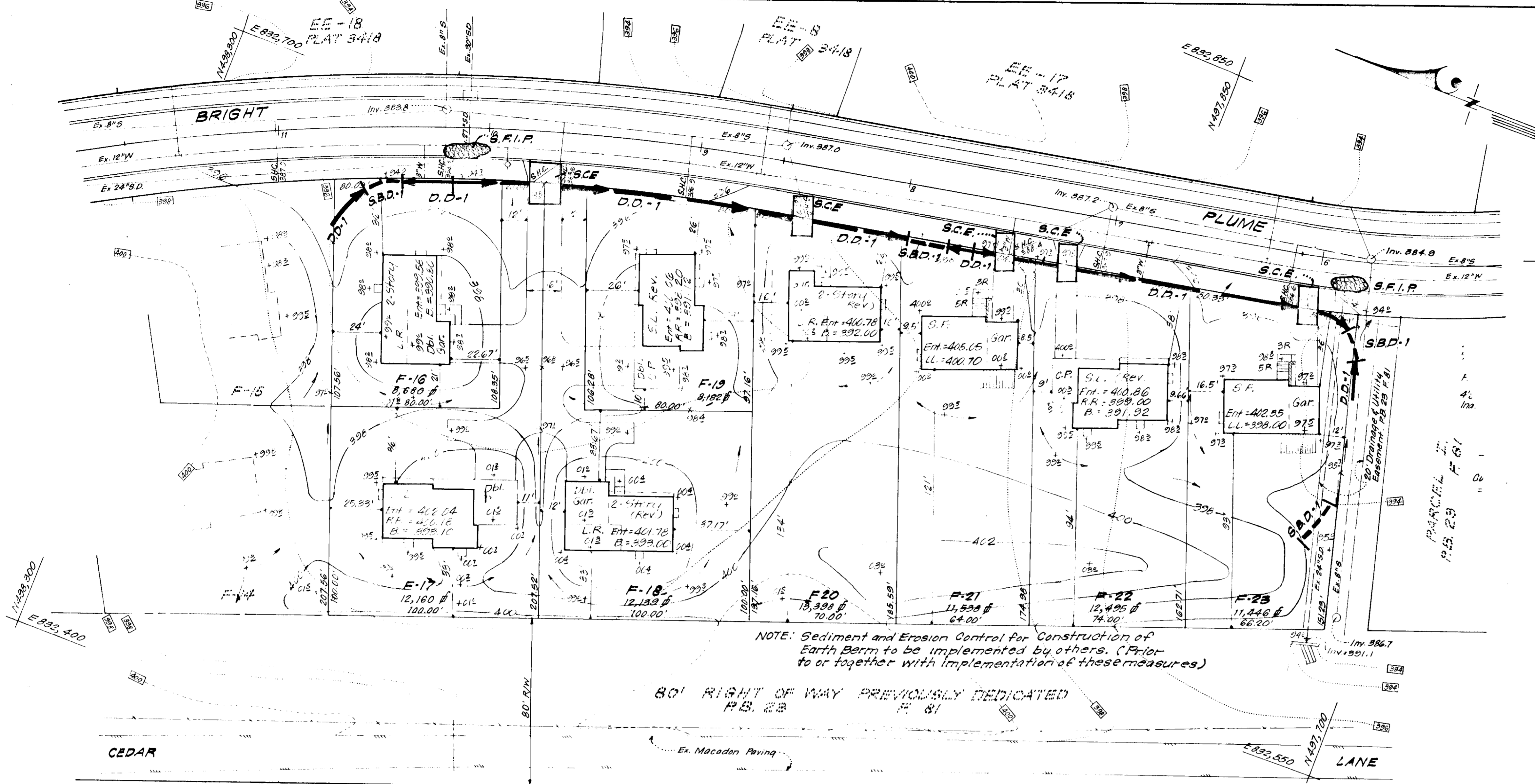
DRAWN BY: COLUMBIA

K.I.W. VILLAGE OF HICKORY RIDGE
SECTION 1 - AREA 1

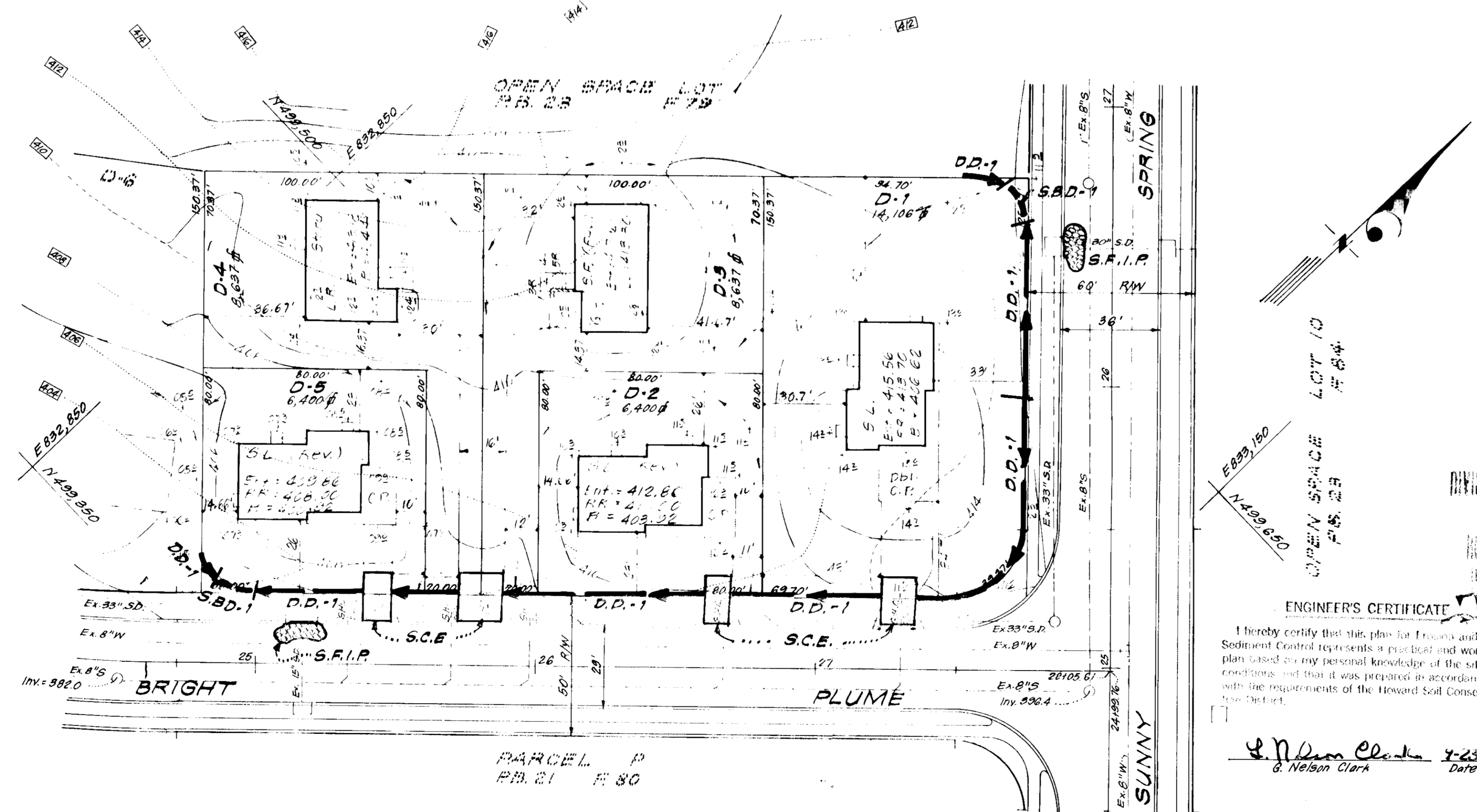
CHECKED BY: EDWARD GUNTER, P.E.
HOWARD COUNTY, MARYLAND

DATE: 10/1/76

FOR: COLUMBIA DEVELOPMENT, INC.
600 ANDERSON CIRCLE, SUITE 200
COLUMBIA, MARYLAND 21046



- LEGEND**
- Contour Interval 2 FT
 - Existing Contours 972
 - Proposed Contours 976
 - Spot Elevations +76.4
 - Direction of Drainage
 - Yard Requirements:
Front: 20 Ft. on 50' Wide Street.
30 Ft. on 80' Wide Street.
Back: 7.5' (Min.)
 - Walk Out Basement
 - Timber Retaining Wall
 - Diversion Dike
 - Straw Bale Dike
 - Stone Construction Entrance
 - Stone Filter Inlet Protection



DEVELOPER'S CERTIFICATE

I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control and I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents as are deemed necessary. Deviation from this plan will not be made without the prior written approval of the Howard Soil Conservation District.

Reviewed for HOWARD S.C.D. and meets Technical Requirements
Ernie V. Newman 12/16/76
Signature
U.S. Soil Conservation Service

Signature: [Signature] Date: 12-21-76
Signature: Robert W. Zieher Date: 12-16-76
Approved: [Signature] Date

NOTE: For bearings and distances of individual lot lines, see record plat recorded in Plat Book 34 at Folios 81 & 82.
A subdivision of Parcels D & F.

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.

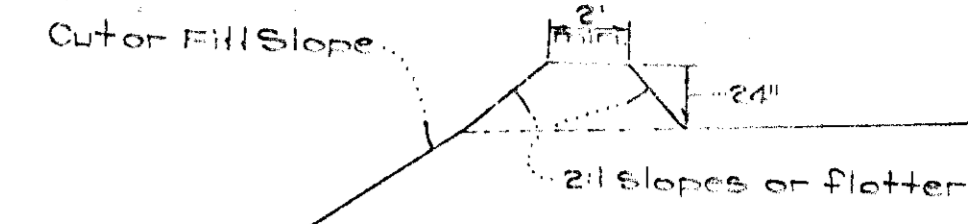
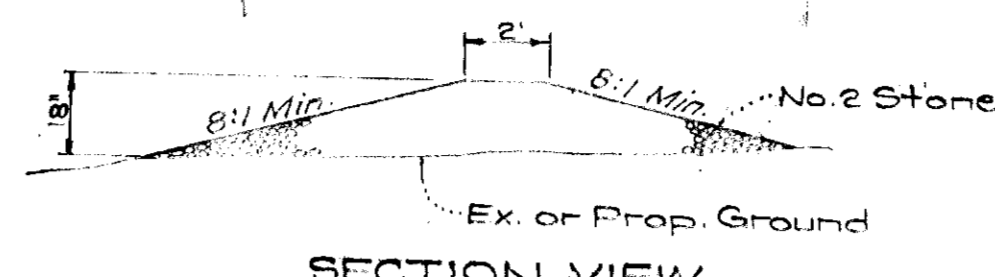
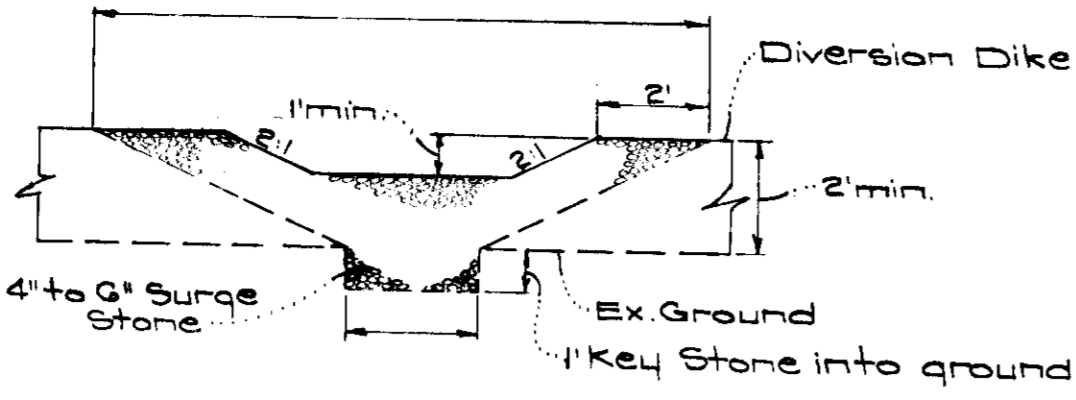
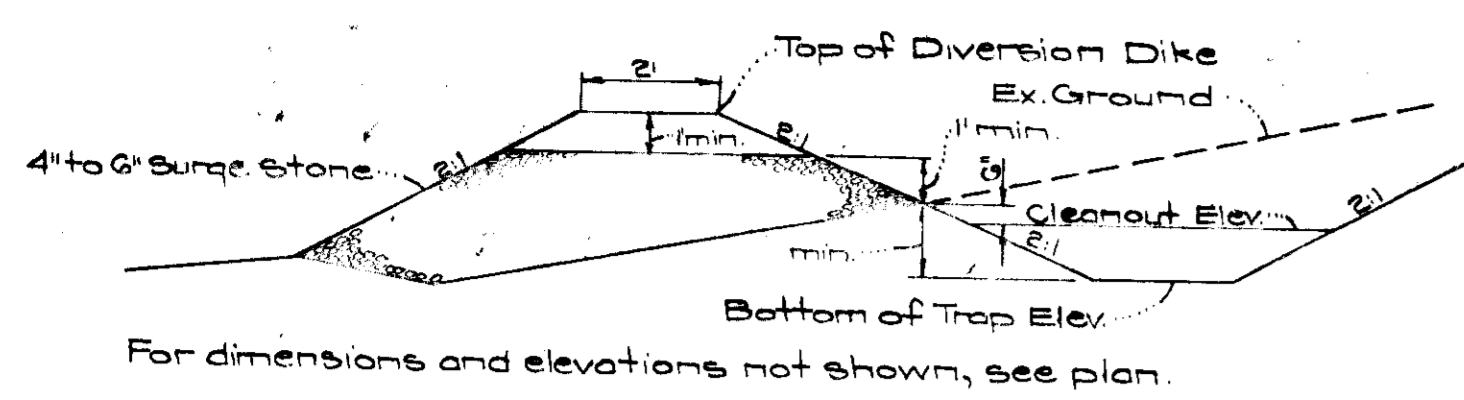
Signature: [Signature] Date: 1-25-76
G. Nelson Clark



SHT 1 OF 3 (210-X)

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
12-27-76
DATE
PLANNING DIRECTOR
DATE
FAMILY DIVISION OF LAND DEVELOPMENT
DATE
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC SQUARES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
12-22-76
DATE
CHIEF CLERK OF HIGHWAYS

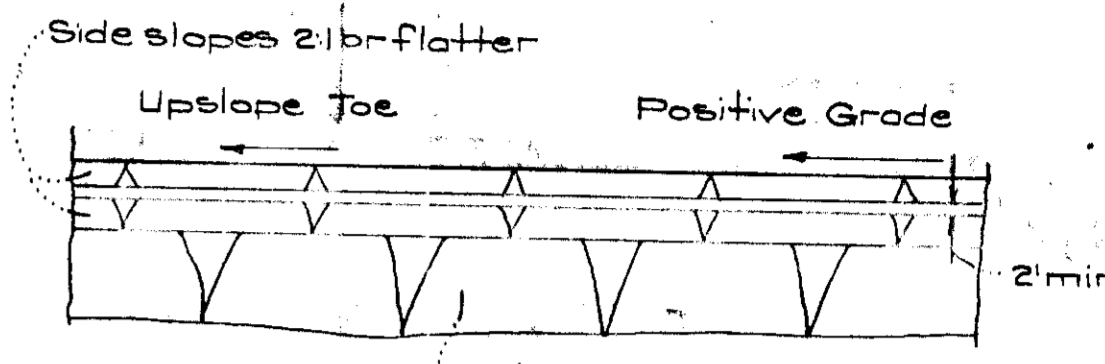
CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11330 CORKWOOD DRIVE SHILOH SPRING, MARYLAND 20864 (301) 581-3300			
DESIGNED	WRMS	SEDIMENT & EROSION CONTROL PLAN LOTS D-1 THRU D-5 & LOTS F-16 THRU F-23 COLUMBIA VILLAGE OF HICKORY RIDGE SECTION 1 AREA 1 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	1" = 30' DRAWING 2 of 3 JOB NO.
CHECKED	K.I.W.		
DATE	WRMS	FOR: COLUMBIA BUILDERS, INC. 606 American City Building Columbia, Maryland 21043	FILE NO. 1201-SE
11-22-76	12-22-76		



TYPICAL PROFILE
TYPICAL SPILLWAY CROSSSECTION
SECTION VIEW
CROSS SECTION

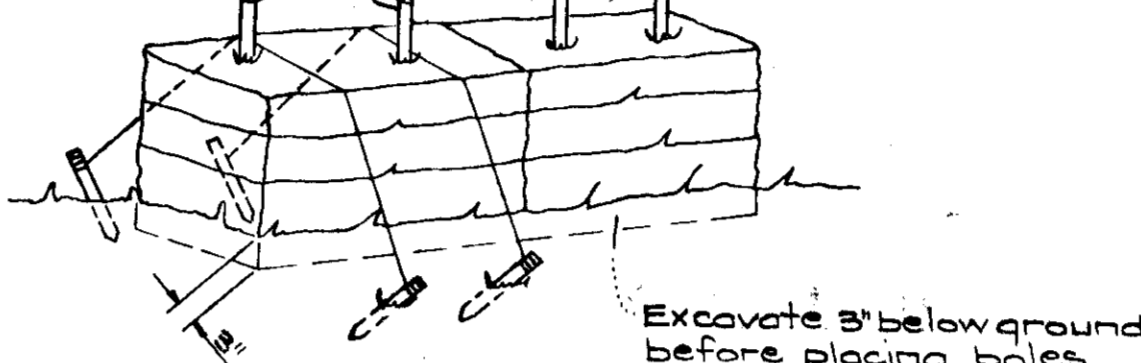
SEDIMENT TRAP NOTES

1. All Sediment Traps to be cleaned out when sediment reaches a level 6" below the existing ground line.
2. Bottoms of all Sediment Traps to be level and constructed to the dimensions shown in plan view.
3. Spillways to be constructed through diversion dikes adjacent to excavated portion of sediment trap.



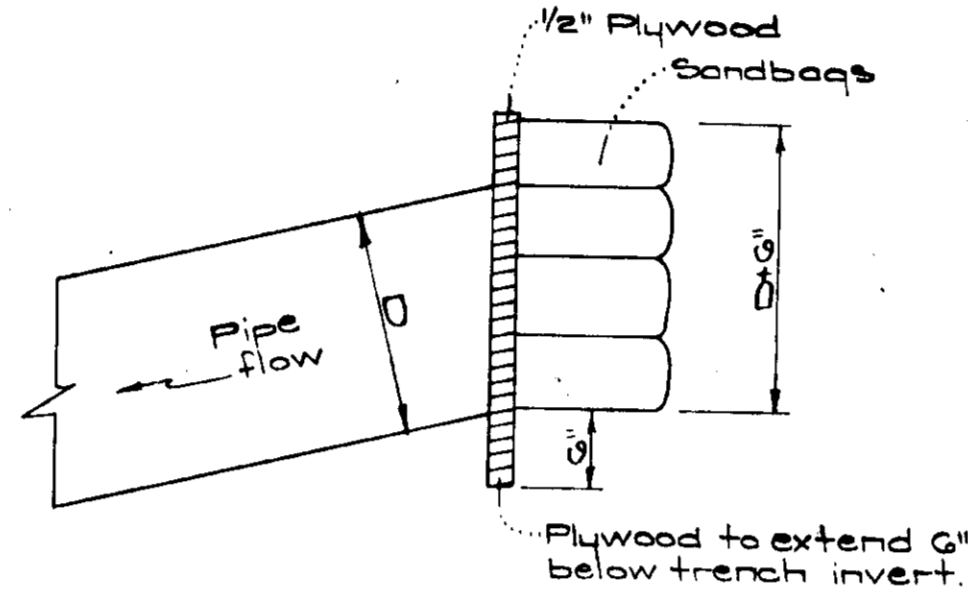
PLAN VIEW
DIVERSION DIKE (D.D-1)
No Scale

All bales shall be tied with non-weathering material, i.e. wire, nylon.

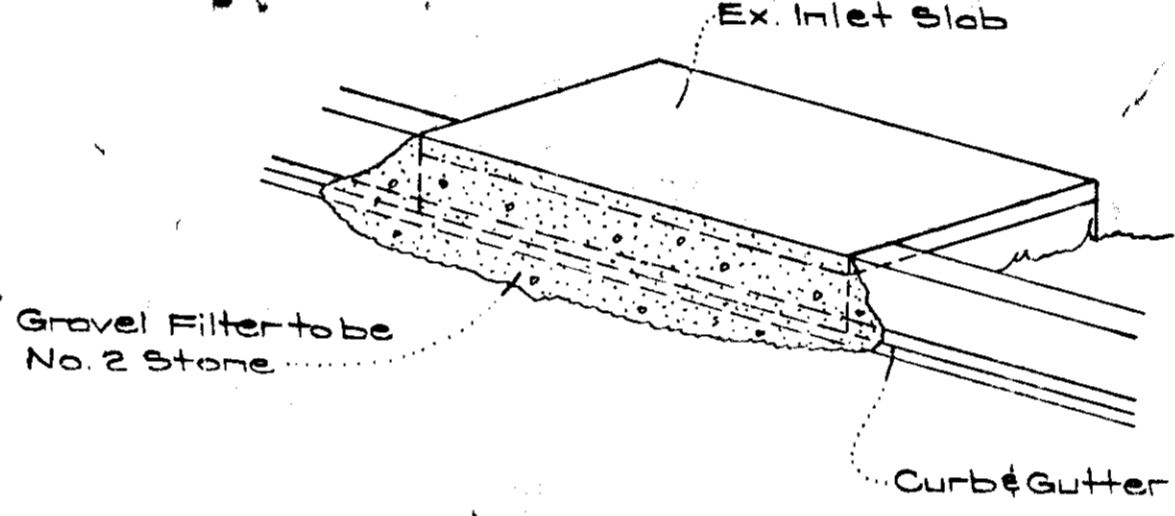


NOTE: In lieu of the use of rebars, each straw bale may be fastened to ground with pegs (4 per bale and wire or nylon as shown above).

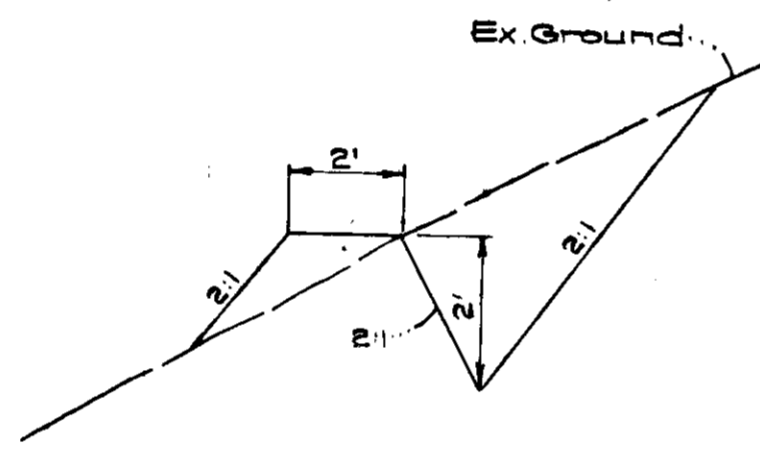
TYPICAL STRAW BALE DETAIL
No Scale



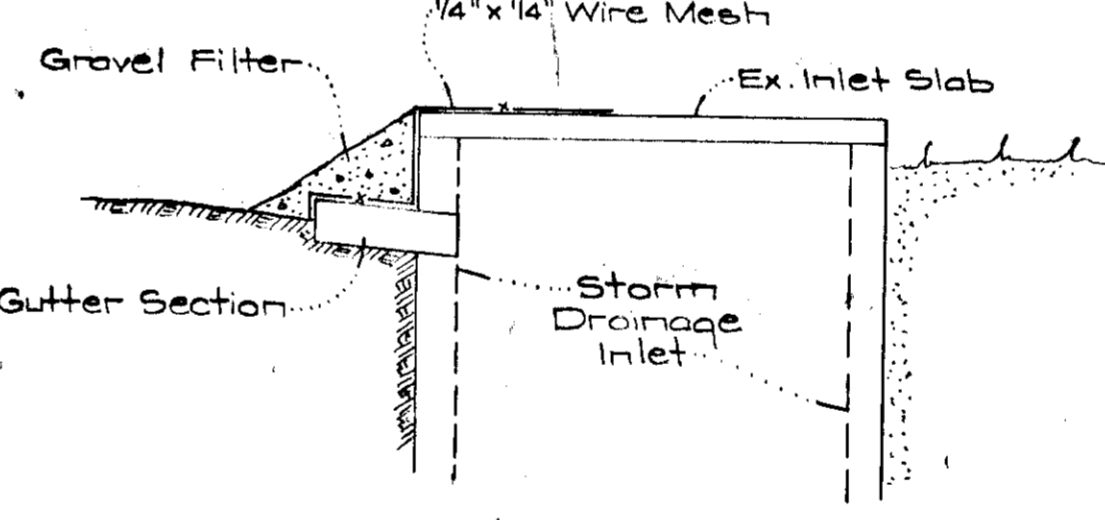
PIPE BLOCKING DETAIL
No Scale



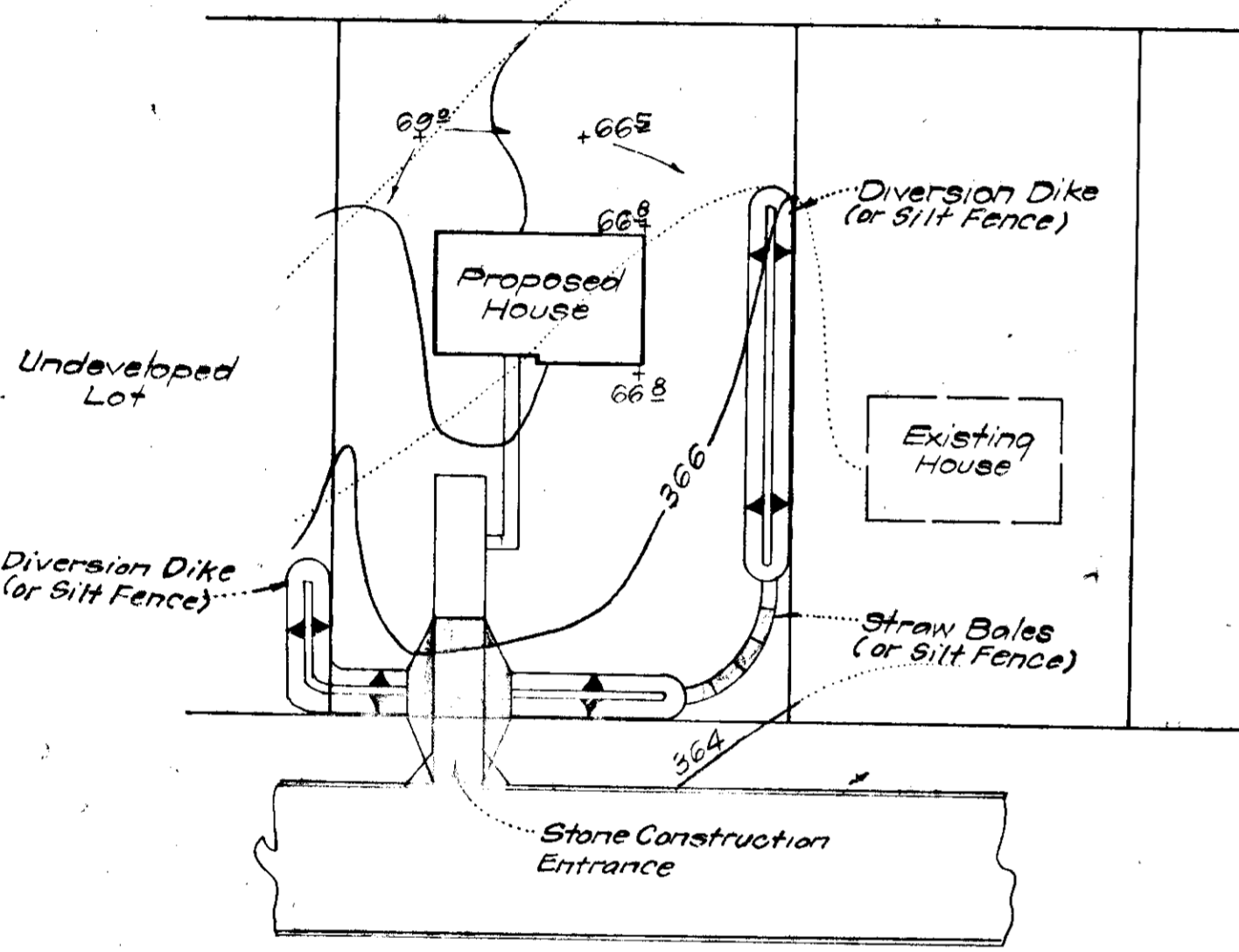
ISOMETRIC VIEW



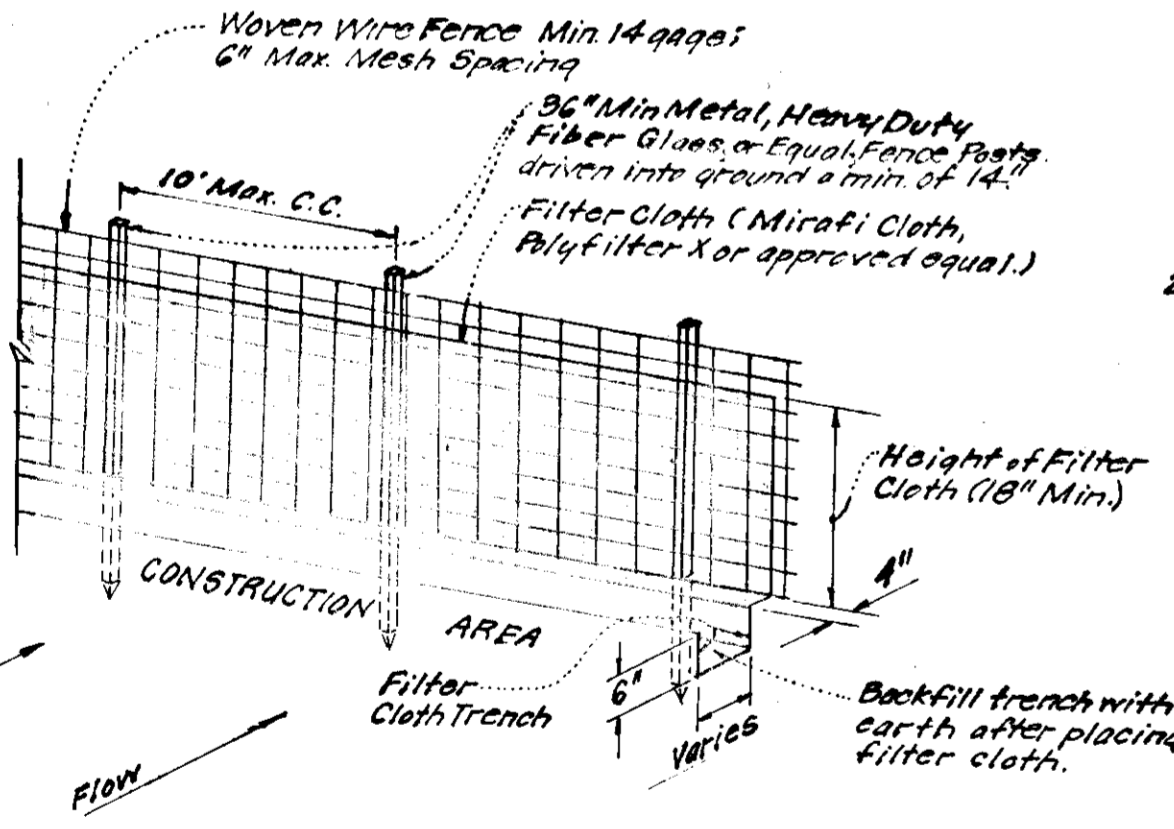
CUT DIVERSION DIKE
No Scale



SECTION VIEW
STONE FILTER INLET PROTECTION DETAIL (SFIP)
No Scale



TYPICAL SINGLE LOT SEDIMENT CONTROL PLAN



SILT FENCE DETAIL
No Scale

- Notes:
1. Woven Wire fence to be fastened securely to fence posts by use of wire ties.
 2. Filter Cloth to be fastened securely to woven wire fence by use of wire ties spaced every 24" x 24".

- GENERAL NOTES**
1. All Sediment and Erosion Control Measures will be installed and stabilized according to this plan prior to any other grading, clearing, or disturbance of the existing surface of the site. See Note # 15 for stabilization except that the seed mixture will be Annual Ryegrass at the rate of 14 lbs./1000 sq. ft.
 2. Notify the Howard Soil Conservation District and the Bureau of Inspections and Permits at least 24 hours before starting any work.
 3. All sediment control practices to conform to the standards and Specifications For Soil Erosion and Sediment Control in Developing Areas and shall be adjusted to meet actual field conditions.
 4. Stabilization of disturbed ground to be done as soon after construction as possible.
 5. All graded areas shall be treated in accordance with the following Specifications:
 - a. Seed: certified 85% germination applied at the rate of 2 lbs./1000 sq. ft. Mixture: 40% Kentucky Blue, 20% Chewink Fescue, 20% Orchardgrass, 20% Annual Ryegrass.
 - b. Fertilizer: 10-10-10 applied at the rate of 2 lbs./1000 sq. ft. or similar agricultural lime or dolomitic lime applied at the rate of 40 lbs./1000 sq. ft.
 - c. Mulch: Weed free grain straw applied at the rate of 20 lbs./1000 sq. ft. Mulch shall be secured to the ground by any approved method, i.e. asphalt tacks, chemical binder, wood chips, etc.
 6. All structural sediment control measures are to remain in place until permission for their removal has been obtained from the Howard Soil Conservation District, phone 461-9180 or 461-5000, ext. 222.
 7. On site inspection and maintenance of all sediment control measures, including cleanup of sediment, temporary dikes, and proper installation of all planned vegetative measures, will be the responsibility of the Developer or his representative on the site, on a continuing basis.
 8. Protection of stabilized area from sediment runoff shall be provided by the use of an approved sediment control device, like straw bales, diversion dikes.
 9. Site Analysis:

Total Area:	3.08 Acres
Area To Be Roofed:	0.39 Acres
Area To Be Paved:	0.26 Acres
Area To Be Seeded:	2.11 Acres
Area Undisturbed:	0.32 Acres
 10. The Contractor shall keep all public roads free of sediment deposits left from traffic leaving construction site.
 11. Stone Construction Entrances shall be constructed at all construction entrances.
 12. CONSTRUCTION SEQUENCE
 - (a) Install Sediment & Erosion Control Devices and stabilize Diversion Dikes.
 - (b) Excavate for foundations and rough grade.
 - (c) Erect Structures, driveways and sidewalks.
 - (d) Final grade and stabilize in accordance with General Note # 5.
 13. If Houses are to be constructed on an "As-Sold" basis of random, Single Lot Sediment Control, as shown on this sheet shall be implemented.
 14. It will be the Developer's responsibility to provide additional Sediment and Erosion Control Devices to protect stabilized areas during construction.
 15. Total Amount of Straw Bales shown = 100 L.F.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER
 DATE 12-27-76
 APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR
 DATE 12-22-76
 DIVISION OF LAND DEVELOPMENT
 DATE 11/17/76
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS, AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR
 DATE 12-22-76
 COUNTY DEPARTMENT OF HIGHWAYS
 DATE

Reviewed for HOWARD COUNTY S.C.D. Name
 and meets Technical Requirements
 Date 12/16/76
 Signature
 U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: Robert W. Zech DATE: 12-16-76
 S.D.M.

DEVELOPER'S CERTIFICATE
 I certify that all development and/or construction will be done according to the plan of development and plan for Erosion and Sediment Control, and I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.
 DATE 9-24-76
 Signature
 DATE 9-23-76
 Signature G. Nelson Clark

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.
 DATE 11-22-76
 Signature
 DATE 9-23-76
 Signature G. Nelson Clark

APPROVED
 DIVISION OF LAND DEVELOPMENT

HOWARD COUNTY, MARYLAND
 DATE 11-22-76
 Signature



CLARK • FINFROCK & SACKETT
 ENGINEERS • PLANNERS • SURVEYORS
 11515 LOCKWOOD DRIVE
 BELLEVILLE, MARYLAND 20644
 DESIGNED BY WRMC
 DRAWN BY KIW
 CHECKED BY G.M.C.
 DATE
 FOR: COLUMBIA BUILDERS, INC.
 608 American City Building
 Columbia, Maryland 21044
 1201-5E
 SDP-77-33c