

THOMAS F. IRETON
L. 294 F. 468

Area to receive stabilization as per pages 63.01 - 63.05 of Standards and Specifications for Soil Erosion & Sediment Control for Developing Areas

VOKC 2 1/3 PHASE II
LOT 461
OPEN SPACE
PLAT 5040

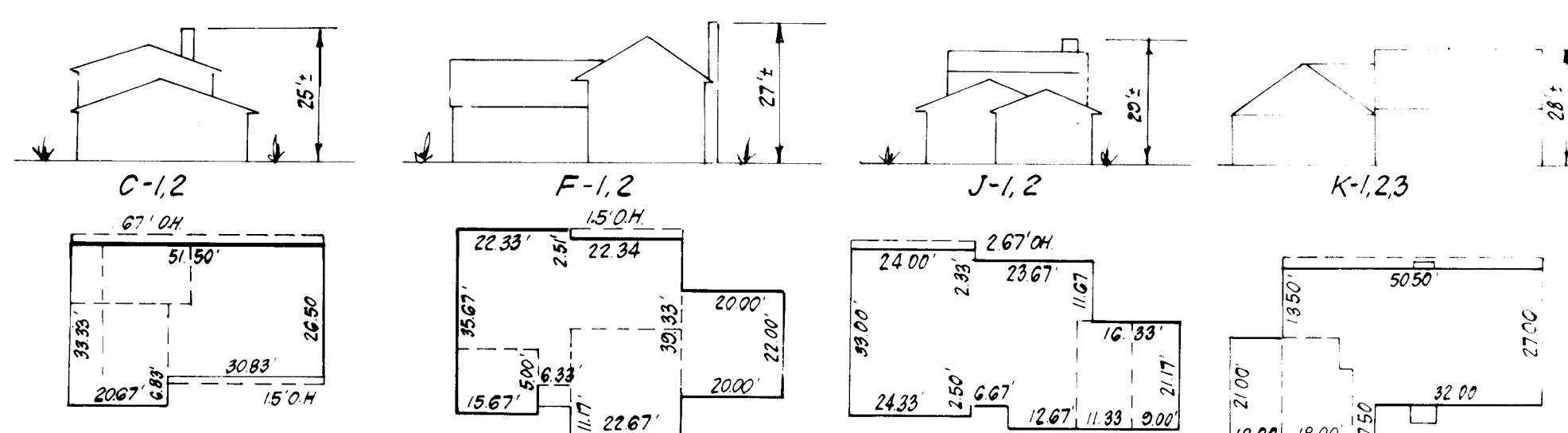
LOT 461
OPEN SPACE
PLAT 5037
VOKC 2 1/3 PHASE II

LEGEND:

- 1 Contour Interval 2 FT
- 2 Existing Contour
- 3 Proposed Contour
- 4 Spot Elevation
- 5 Direction of Drainage
- 6 Existing Trees to be Retained
- 7 Walk Out Basement

GENERAL NOTES:

1. The land included in this plan is zoned New Town, SF 147.
2. The lots shown on this plan are covered by Final Development Plan Phase 178, Part III.
3. All coordinates shown hereon are based on Howard County Geodetic Control Traverse which is based upon the Maryland State Plane Coordinate System.
4. The area covered is located on Tax Map #42.
5. The total area included in this plan is 3.826 Acres.
6. All roadways are public and existing.
7. Any damage to County Owned rights of way or paving shall be corrected at the Developers Expense.
8. Total Number of Lots: 16

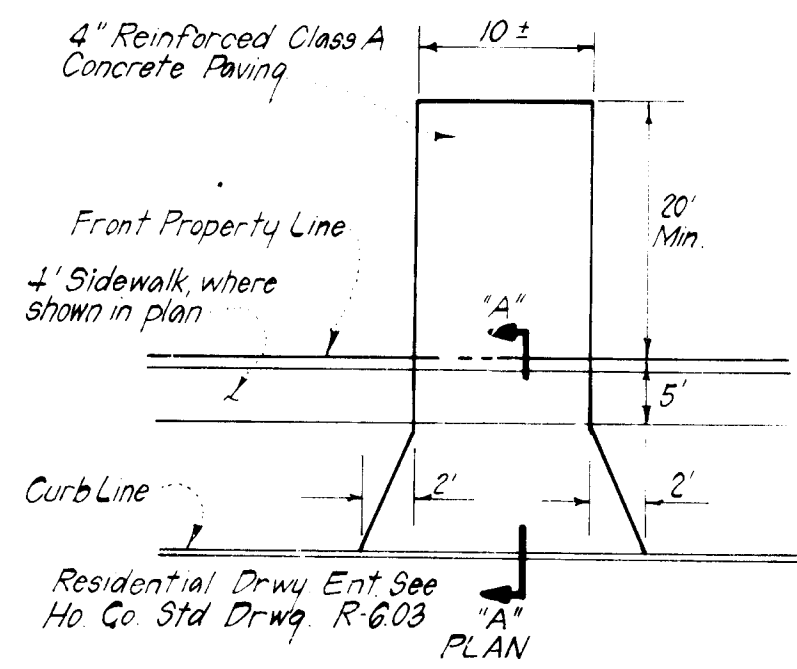


TYPICAL HOUSES
NO SCALE

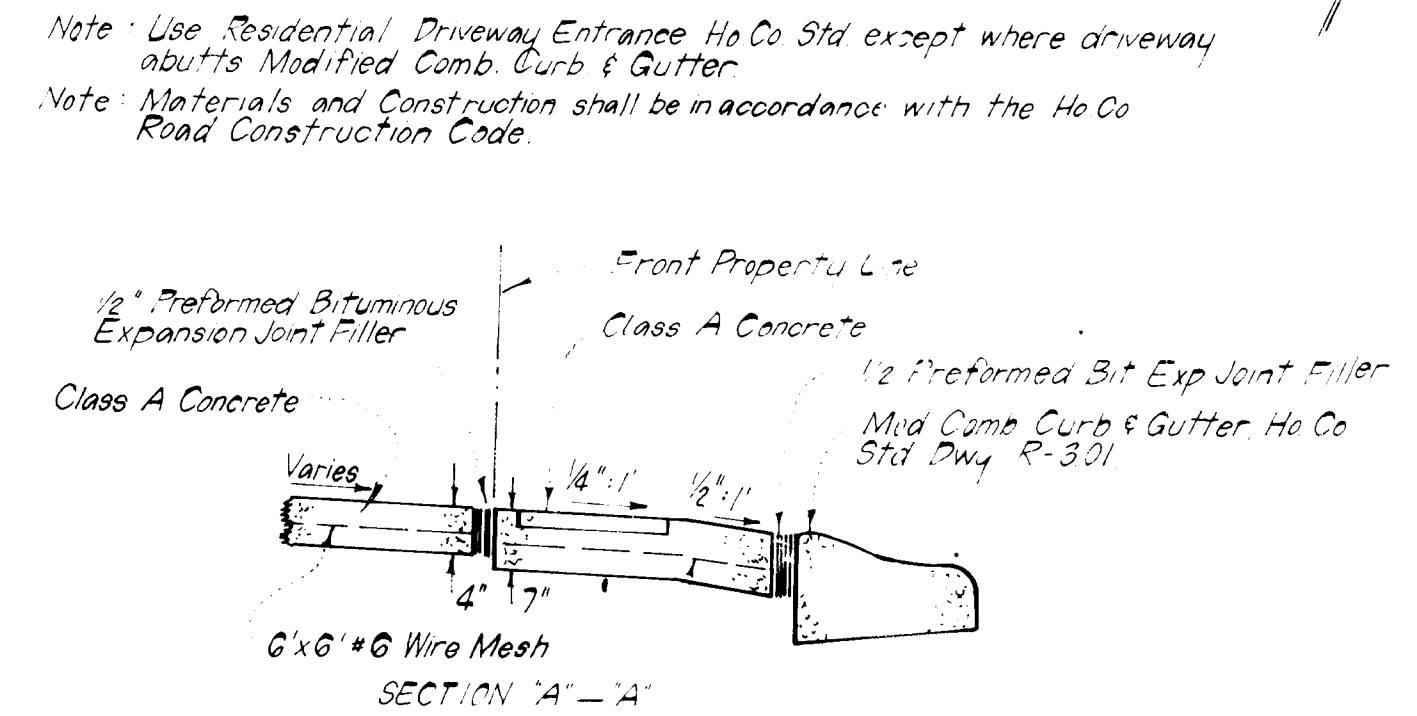
LOT NO	STREET ADDRESS
291	7502
292	7506 Yellow Bonnet Place
293	7510
300	7514
600	7518
602	7522
607	7526
608	7530
606	7529
605	7525
601	7521
302	7517
604	7511
603	7507
311	7503
296	7508 Broadcloth Way

SUBDIVISION NAME	COLUMBIA VOKC	SECT. AREA	2.3 Ph II	LOTS 296-300, 302-303, 305-308 AND 603-608
PLAT # OF LIT	5801 & 5811	BLOCK #	13	NEW TOWN
WATER CODE	E-16	ELEC DIST	67	CENSUS TR
		SEWER CODE	G-7	6062

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: [Signature] DATE: 7-12-84
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR: [Signature] DATE: 7-18-84
 CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMIN
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] DATE: 7-16-84
 CHIEF BUREAU OF ENGINEERING



DRIVEWAY ABUTTING MODIFIED COMB. CURB AND GUTTER
NO SCALE



NO SCALE



CLARK · FINEFROCK & SACKETT
 ENGINEERS · PLANNERS · SURVEYORS
 11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 593-3400

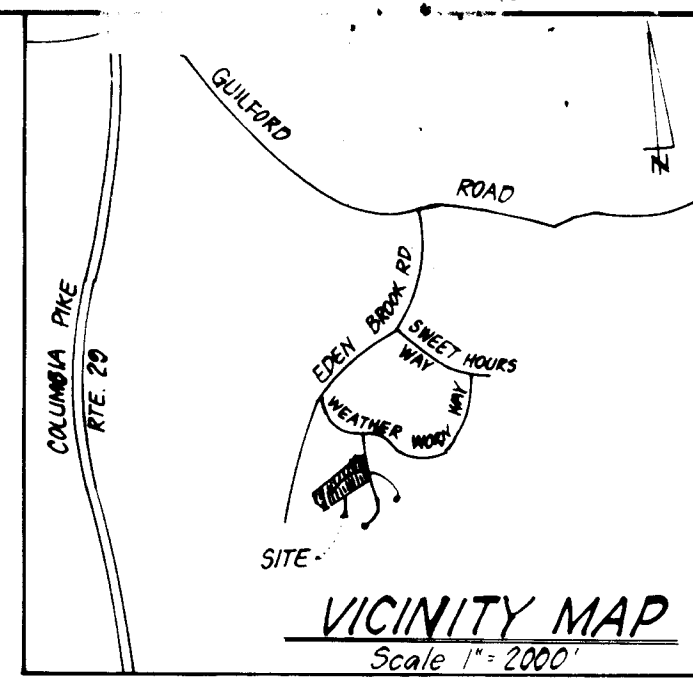
DESIGNED	J.M.E.	SCALE	1" = 30'
DRAWN	B.A.F.	DRAWING	1-2-3
CHECKED	J.M.E.	JOB NO.	84-040
DATE	June, 1984	FILE NO.	84-040-X

FOR: COLUMBIA BUILDERS, INC.
 3 Lakefront North Suite 200
 Columbia, Maryland 21044

TRAP #1 SOST (ST-3)

DA = 15 Ac.
 Storage Required = 15 x 1800 = 2700 cf.
 Storage Provided = 2700 cf.
 Depth = 4 ft.
 Top of Stone Crest = 287.0
 Bottom Elevation = 283.0
 Cleanout Elevation = 285.0
 Bottom Dimension = 22' x 14.5'

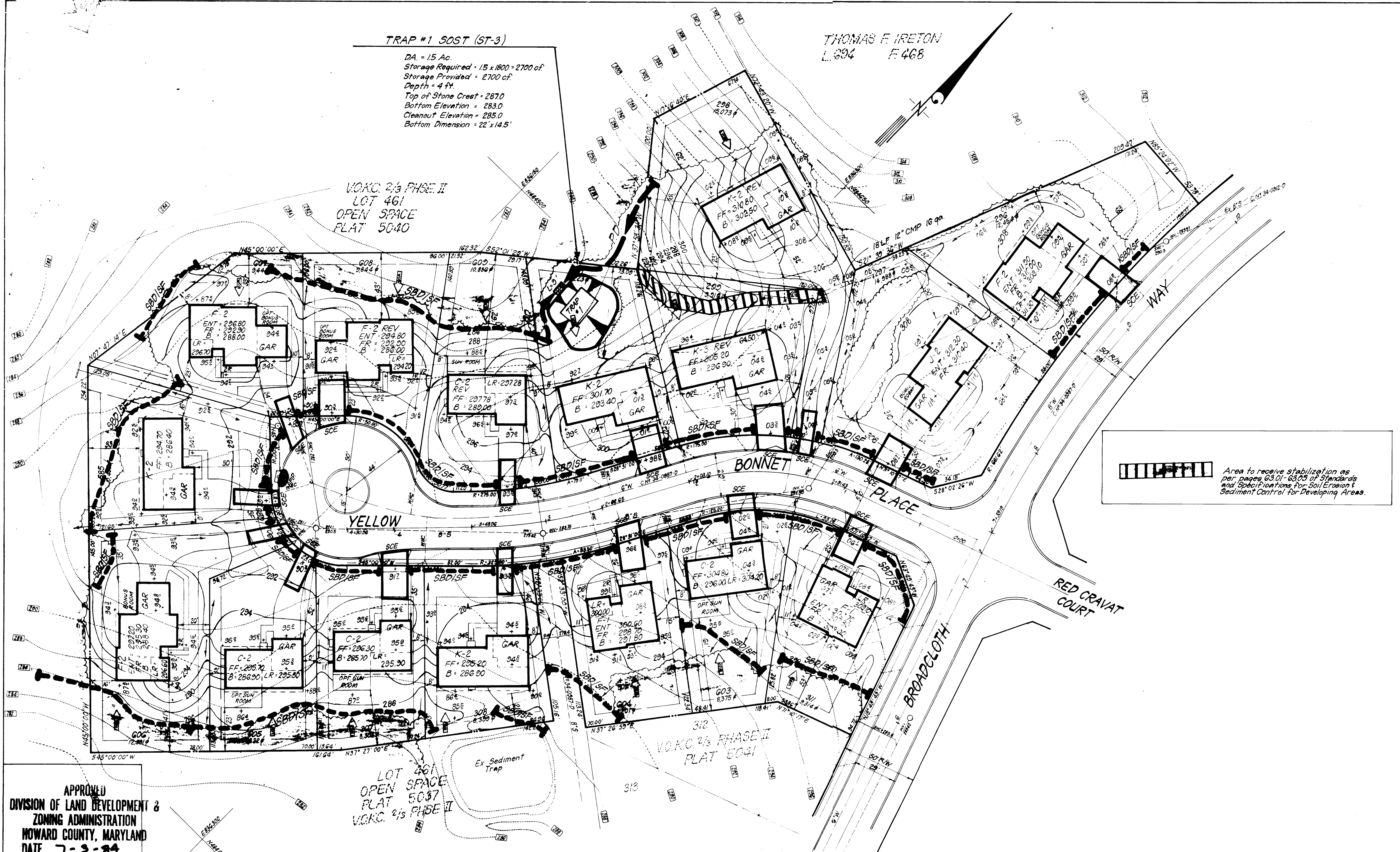
THOMAS F. IRETON
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LEGEND:

1. Contour Interval 2 Ft
2. Existing Contour
3. Proposed Contour
4. Spot Elevation
5. Direction of Drainage
6. Existing Trees to be Retained
7. Walk Out Basement
8. Straw Bale Dike/Silt Fence
9. Perimeter Dike
10. Stone Outlet Sediment Trap
11. Stone Construction Entrance
12. Stone Filter Inlet Protection

Area to receive stabilization as per pages 03.01, 03.05 of Standards and Specifications for Soil Erosion & Sediment Control for Developing Areas.



APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 7-2-84

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER J.S. DATE 7-18-84

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR DATE 7-18-84

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR DATE 7-17-84

CHIEF BUREAU OF ENGINEERING DATE 7-16-84

Reviewed for... Howard S.C.D.
 Name
 and meets Technical Requirements
 Signature Date 7-13-84
 U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED
 FOR SOIL EROSION AND SEDIMENT
 CONTROL BY THE HOWARD SOIL
 CONSERVATION DISTRICT
 Approved Date 7-13-84



ENGINEER'S CERTIFICATE
 I hereby certify that this plan for Erection and
 Erection Control represents a practical and workable
 based on my personal knowledge of the site
 conditions and that it was prepared in accordance
 with the regulations of the Howard Soil Conserva-
 tion District.
 DATE 6-5-84 G. Nelson Clark

DEVELOPER/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 B. James Greenfield DATE 6-5-84

SUBDIVISION NAME	COLUMBIA V.O.K.C.	SECT./AREA	2/3 Ph. II	LOTS 296-300, 307
PLAT # OF L.P.	5040 8/81	BLK #	13	ZONE
PLAT # OF L.P.	5041 8/81	BLK #	13	ZONE
WATER CODE	E-16	SEWER CODE	G350000	

CLARK • FINEFROCK & SACKETT
 ENGINEERS • PLANNERS • SURVEYORS
 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 (301) 593-3400

DESIGNED	J.M.E.	SCALE	1" = 30'
DRAWN	B.A.F.	DRAWING	2 of 3
CHECKED	J.M.E.	JOB NO.	84-040
DATE	June, 1984	FILE NO.	84-040 BE

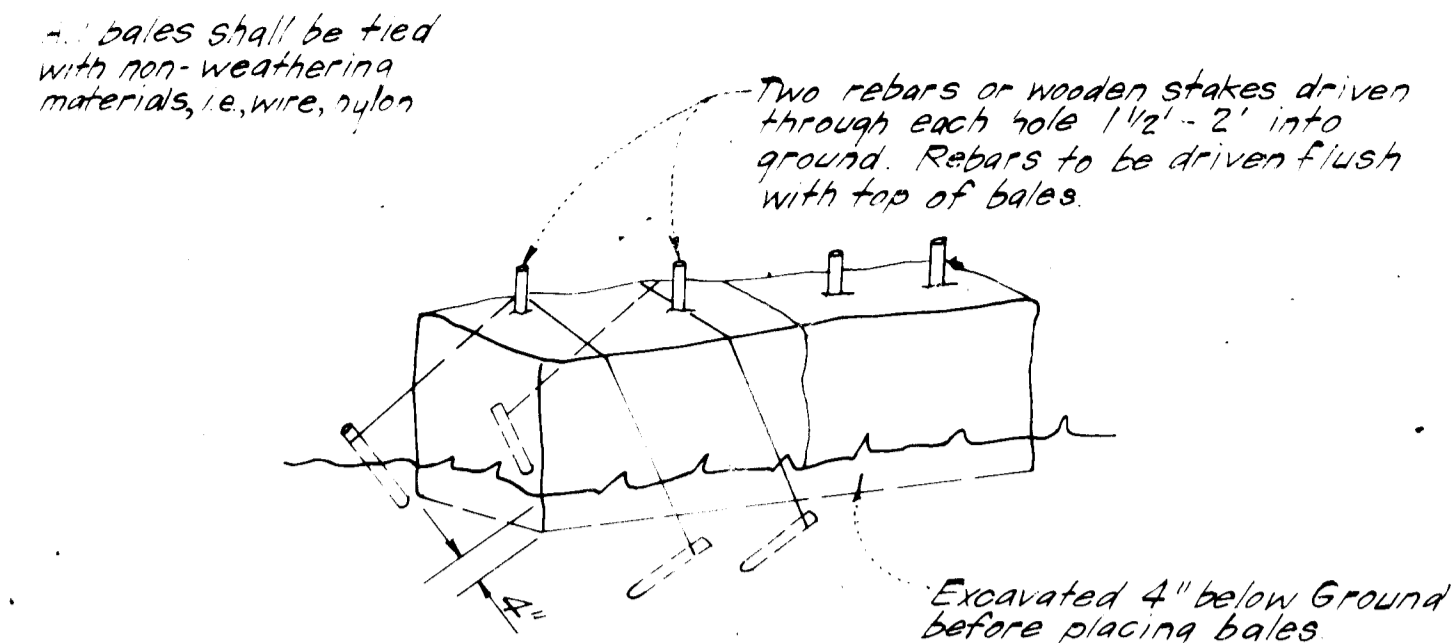
FOR: COLUMBIA BUILDERS, INC.
 3 Lakefront North Suite 200
 Columbia, Maryland 21044

SDP-84-293c

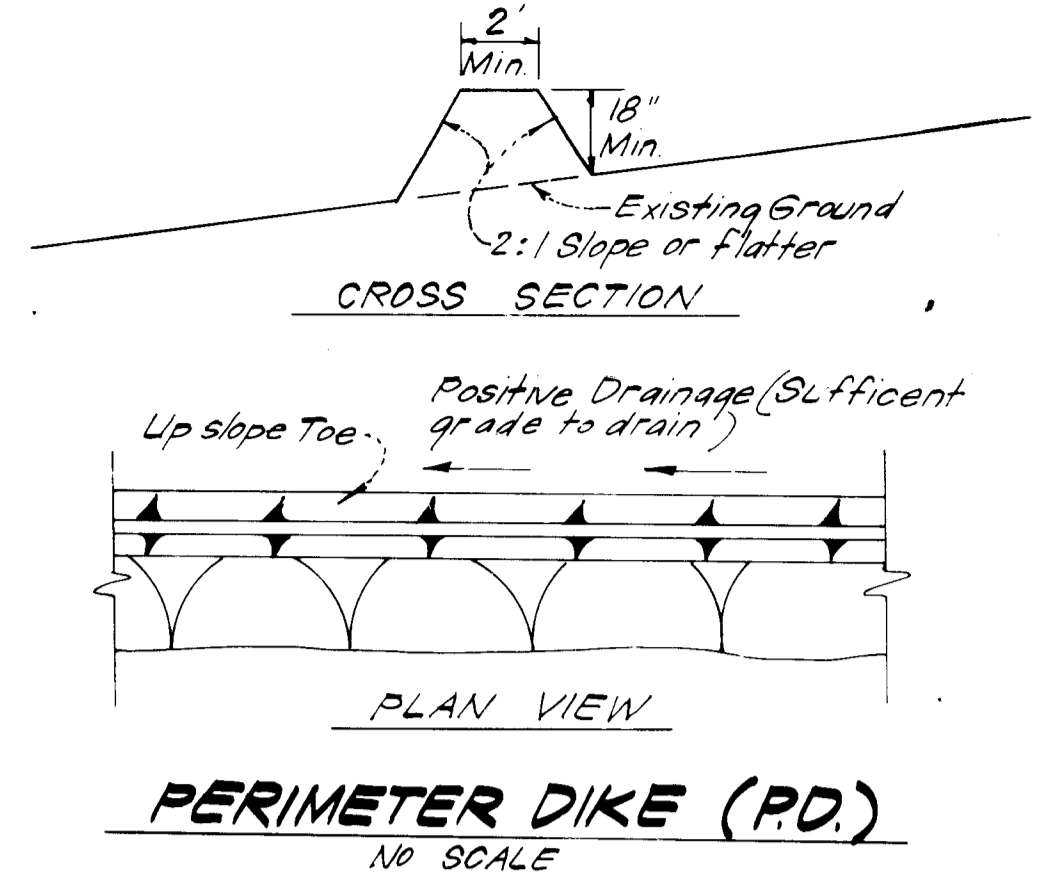
GENERAL NOTES

- Grading Permits shall be obtained prior to installation of Sediment Control & Grading
- 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 #6 for stabilization except that the seed mixture will be annual rye applied at a rate of 1.4 lbs./1000 sf.
- Notify the Bureau of Inspections and Permits at least 24 hours before starting any work
- 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
- Stabilization of Disturbed ground to be done as soon after construction as possible.
- All disturbed areas to be stabilized in accordance with the following Specifications:
 - Seed - certified 85% germination applied at the rate of 3 lbs./1000 sf. Mixture - 40% Kentucky Blue, 20% chewing Fescue, 20% Kentucky 31 and 20% annual rye
 - Fertilizer - 10-10-10 applied at a rate of 23 lbs./1000 sf. Ground Agricultural Lime or Dolomitic Lime applied at a rate of 90 lbs./1000 sf.
 - Mulch - Weed free grain straw applied at a rate of 70-90 lbs./1000 sf. Mulch shall be secured to the ground by any approved method i.e.; asphalt tacks, chemical binder etc.
 - All Sod used shall be Maryland State Certified.
- All structural Sediment Control Measures are to remain in place until permission for their removal has been obtained from the Bureau of Inspections and Permits
- On-Site Inspection and Maintenance of all Sediment Control Measures including clean out of Sediment Traps and Dikes, and proper establishment of all planned vegetative measures will be the responsibility of the developer or his representative on the site, on a continuing day to day basis.
- It will be the developer's responsibility to provide additional Sediment & Erosion Control Devices to protect stabilized areas during construction.
- The Contractor shall keep all public roads free of sediment deposits left from traffic leaving construction site.
- Approval of this plan is conditional upon the approval of Sediment Control Plan for the off-site waste or borrow area prior to the import of any borrow or export of waste to or from this site.
- All pipes to be blocked at the end of each day. See detail this sheet N/A
- Total Amount of Straw Bales or Silt Fence shown = 1605 LF
- SITE ANALYSIS:

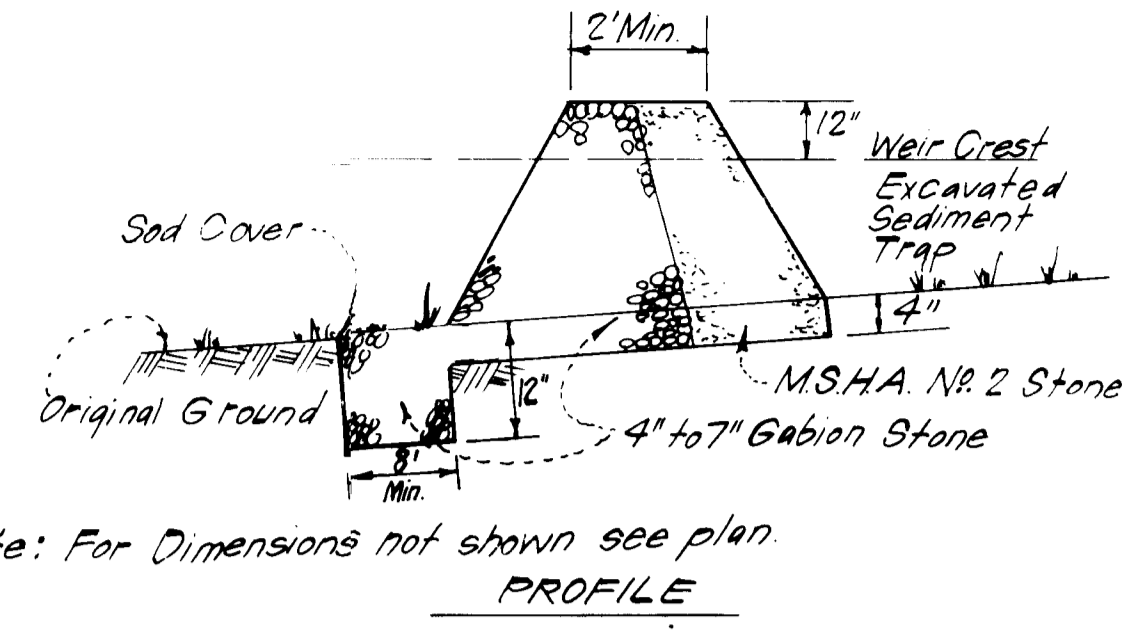
A. Total Area:	3896	Acres
B. Area to be Roofed:	0758	Acres
C. Area to be Paved:	0318	Acres
D. Area to be Seeded:	2086	Acres
E. Area Undisturbed:	0734	Acres
- CONSTRUCTION SEQUENCE:
 - Install Sediment & Erosion Control Devices and Stabilize Diversion Dike
 - Excavate for Foundations and Rough Grade
 - Construct Structures, Driveways and Sidewalks
 - Final Grade and Stabilize in accordance with note #6.
- If houses are to be constructed on an "As-Sold" basis at random, Single Lot Sediment Control, as shown on this sheet, shall be implemented



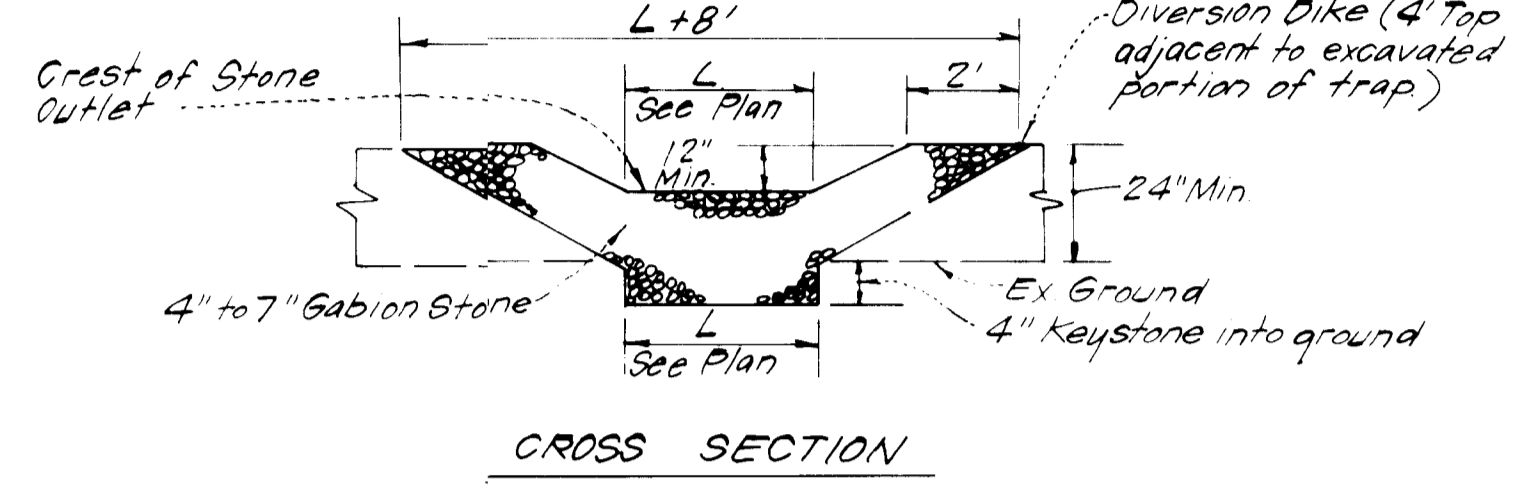
STRAW BALE DIKE DETAIL (S.B.D.)
NO SCALE



PERIMETER DIKE (P.D.)
NO SCALE

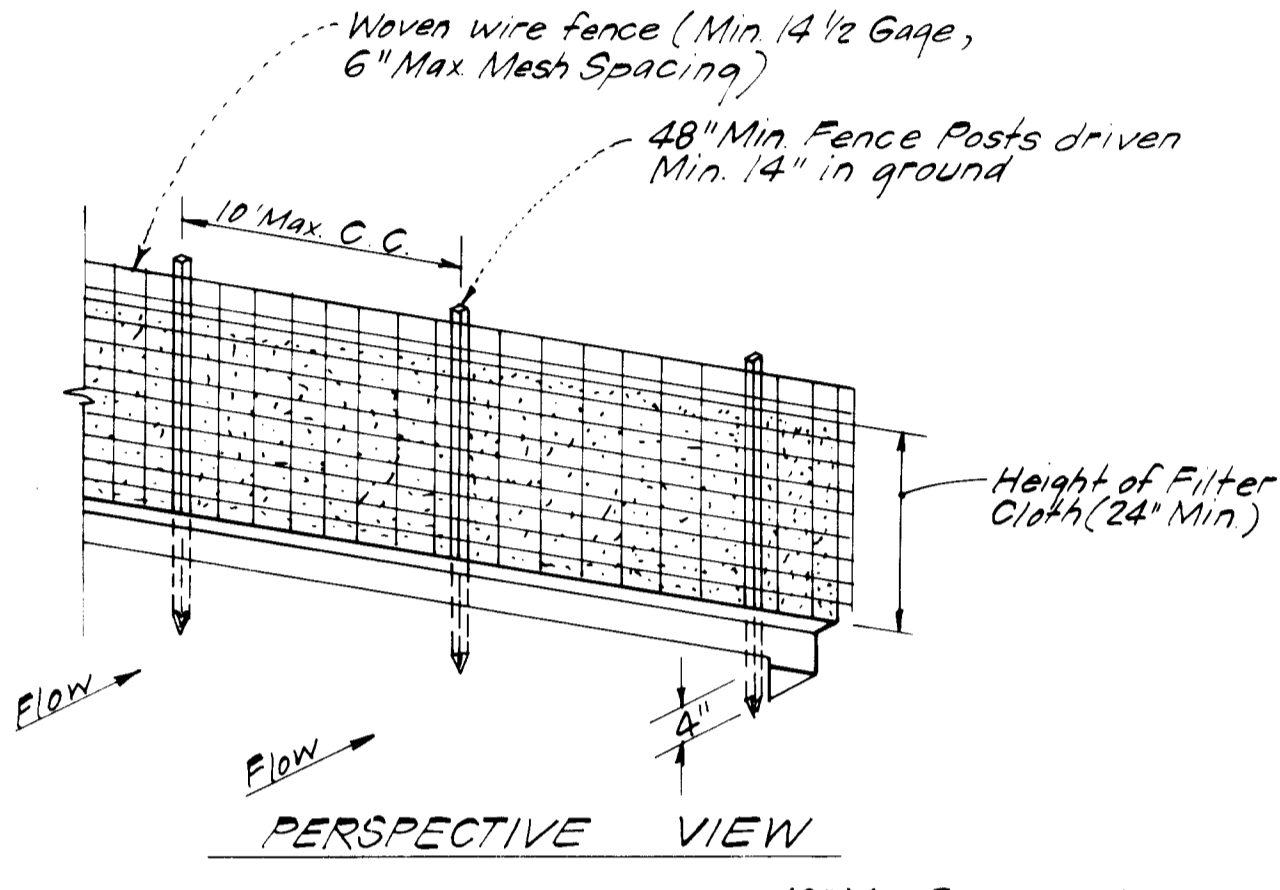


Note: For Dimensions not shown see plan

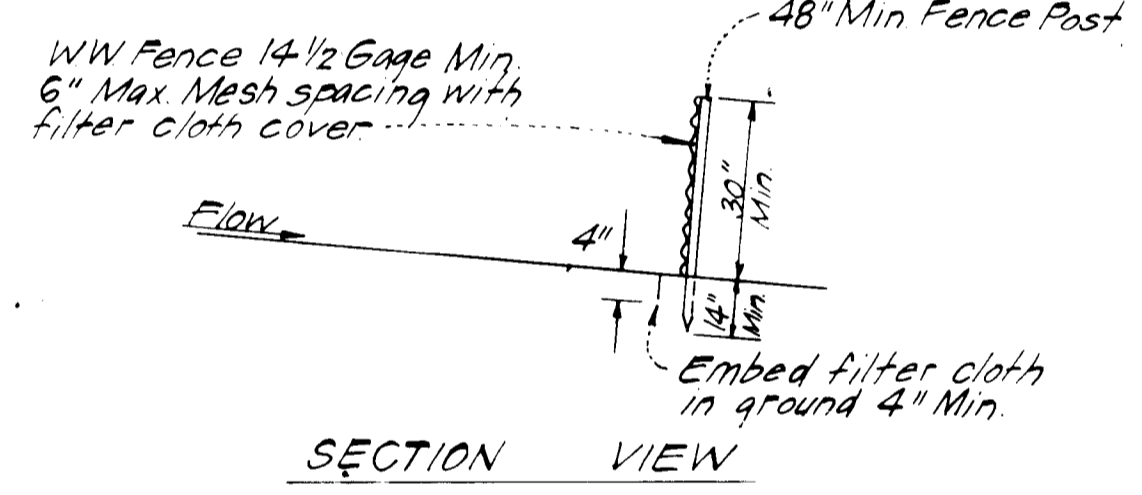


- Notes:
- Sediment Trap to be cleaned out when sediment reaches a level of 1 foot below crest of stone outlet
 - Bottom of Sediment Trap to be level and constructed to the dimensions shown on plan
 - Stone Outlet to be constructed through diversion dike adjacent to excavated trap

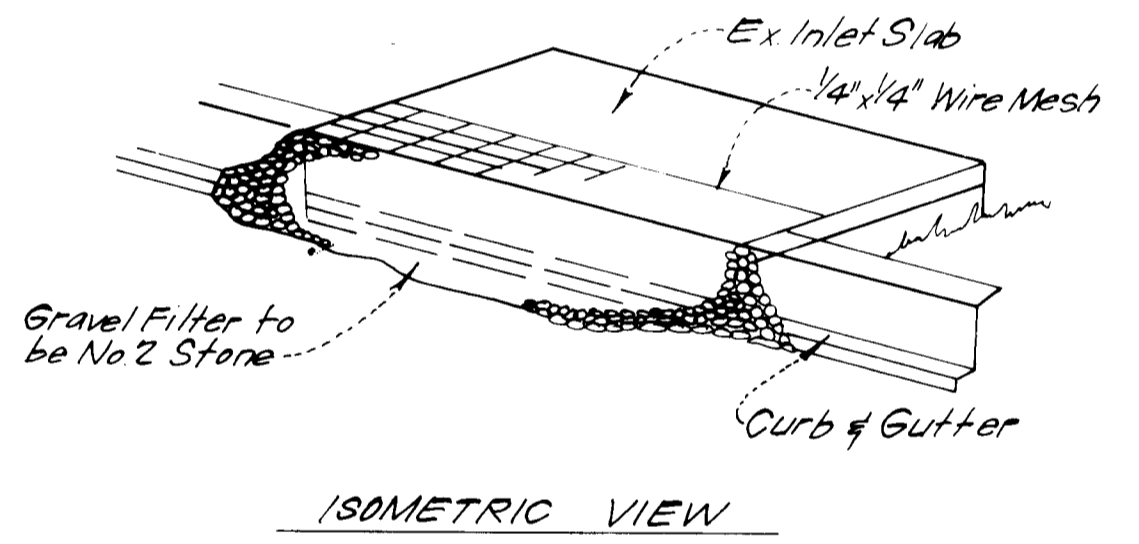
DETAILS OF STONE FILTER OUTLET FOR STONE OUTLET SEDIMENT TRAP (S.O.S.T.)
NO SCALE



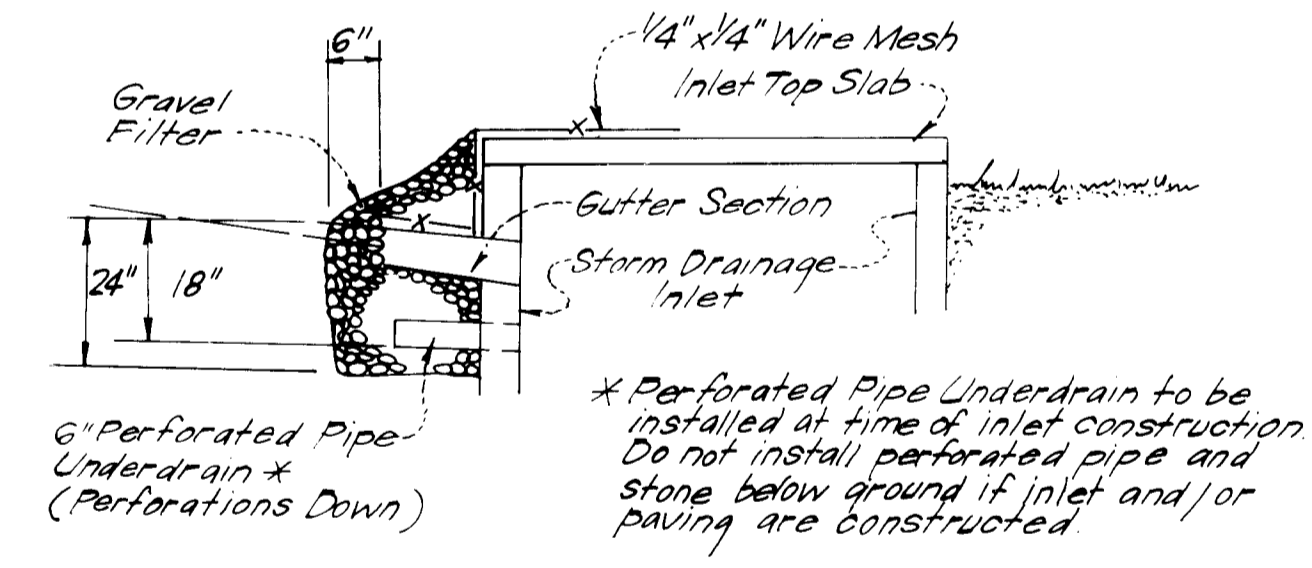
PERSPECTIVE VIEW



SECTION VIEW



ISOMETRIC VIEW



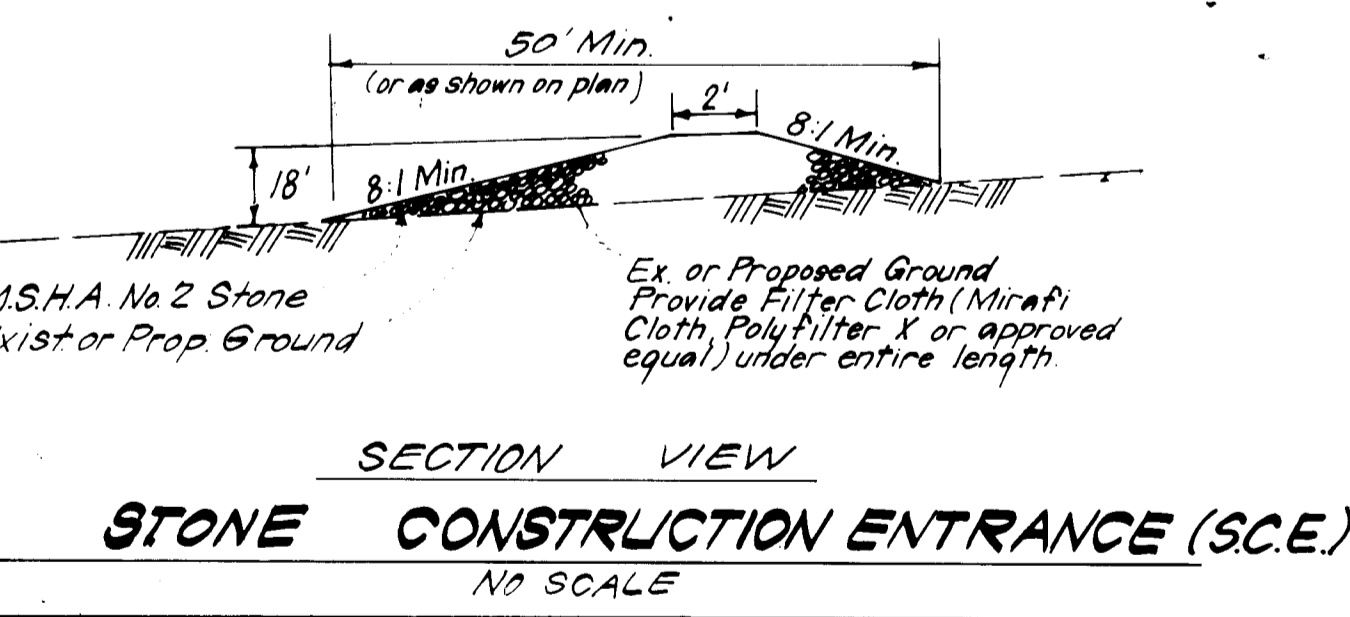
SECTION VIEW
STONE FILTER INLET PROTECTION (S.F.I.P.)
NO SCALE

CONSTRUCTION NOTES:

- Woven wire fence to be fastened securely to fence posts with wire ties or staples
- Filter cloth to be fastened securely to woven wire fence with wire ties spaced every 24 inches at top and mid-section

POSTS: Steel, either T or L type or 2" Hardwood
FENCE: Woven wire, 1 1/2 Ga., Max 6" Mesh Opening
FILTER CLOTH: Filter X, Mirafi 100X, Laurel Erosion Control Cloth, Bidim, PolyFilter X or equal

SILT FENCE DETAIL (S.F.)
NO SCALE



SECTION VIEW
STONE CONSTRUCTION ENTRANCE (S.C.E.)
NO SCALE

ENGINEER'S CERTIFICATE

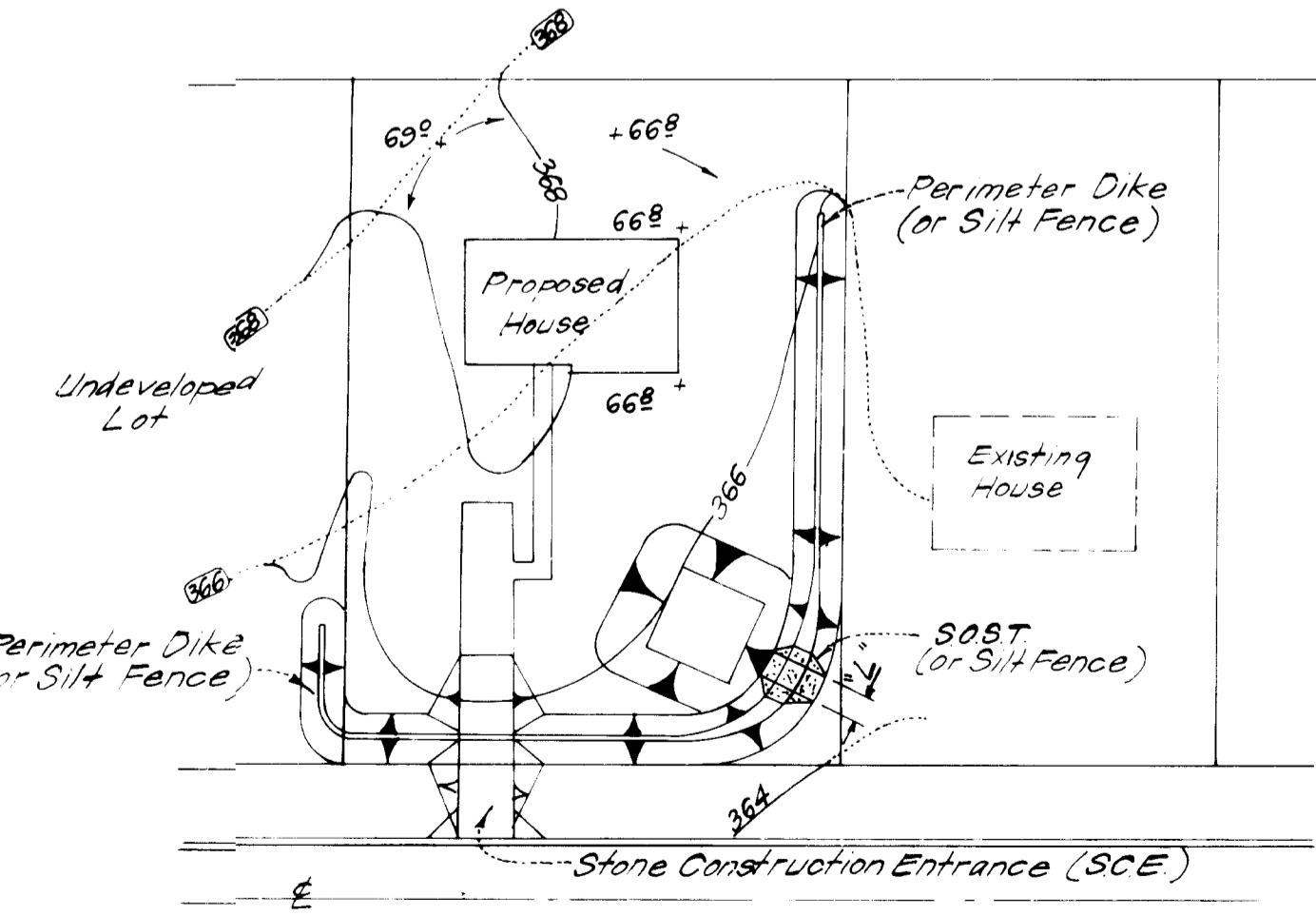
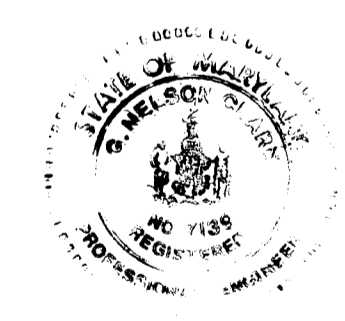
I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

6-5-84 Date
G. Nelson Clark

DEVELOPER'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."

B. James Greenfield Signature of Developer/Builder
6-5-84 Date



SINGLE LOT SEDIMENT CONTROL PLAN
NO SCALE

S.O.S.T. *			
Lot Size	1/4 Ac.	1/2 Ac.	1 Ac.
L	2'	3'	6'
Depth	2'	2'	2'
Bot Length**	11'	26'	26'
Bot Width**	11'	11'	26'
Bot Area	121 sq	286 sq	676 sq

* See Std ST-3, pg 20.07 for detail not shown
 ** Can be adjusted in field, but bottom area must be 1/2 sq ft or greater.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT COUNTY HEALTH OFFICER: <u>[Signature]</u> DATE: <u>2-18-84</u>	APPROVED DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION HOWARD COUNTY, MARYLAND DATE: <u>7-3-84</u>
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING PLANNING DIRECTOR: <u>[Signature]</u> DATE: <u>7-18-84</u>	
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DIRECTOR: <u>[Signature]</u> DATE: <u>7-17-84</u>	

Reviewed for: Howard S.C.D.
 Name
 and meets Technical Requirements
[Signature] 7/13/84
 Signature Date
 U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
[Signature] 7/13/84
 Approved Date

CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 1131F LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400		
DESIGNED: J.L.S. DRAWN: J.L.S. CHECKED: J.L.S. DATE: June, 1984	SEDIMENT & EROSION CONTROL PLAN LOT 585 AND LOTS 290, 300, 307, 308, 311, AND 312, 1/2 AC. TRACT 403 COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 3 PHASE II 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: COLUMBIA BUILDERS, Inc. 3 Lakefront North Suite 200 Columbia, Maryland 21044	SCALE: As Shown DRAWING: 3 of 3 JOB NO.: 84-040 FILE NO.: 84-040 SE