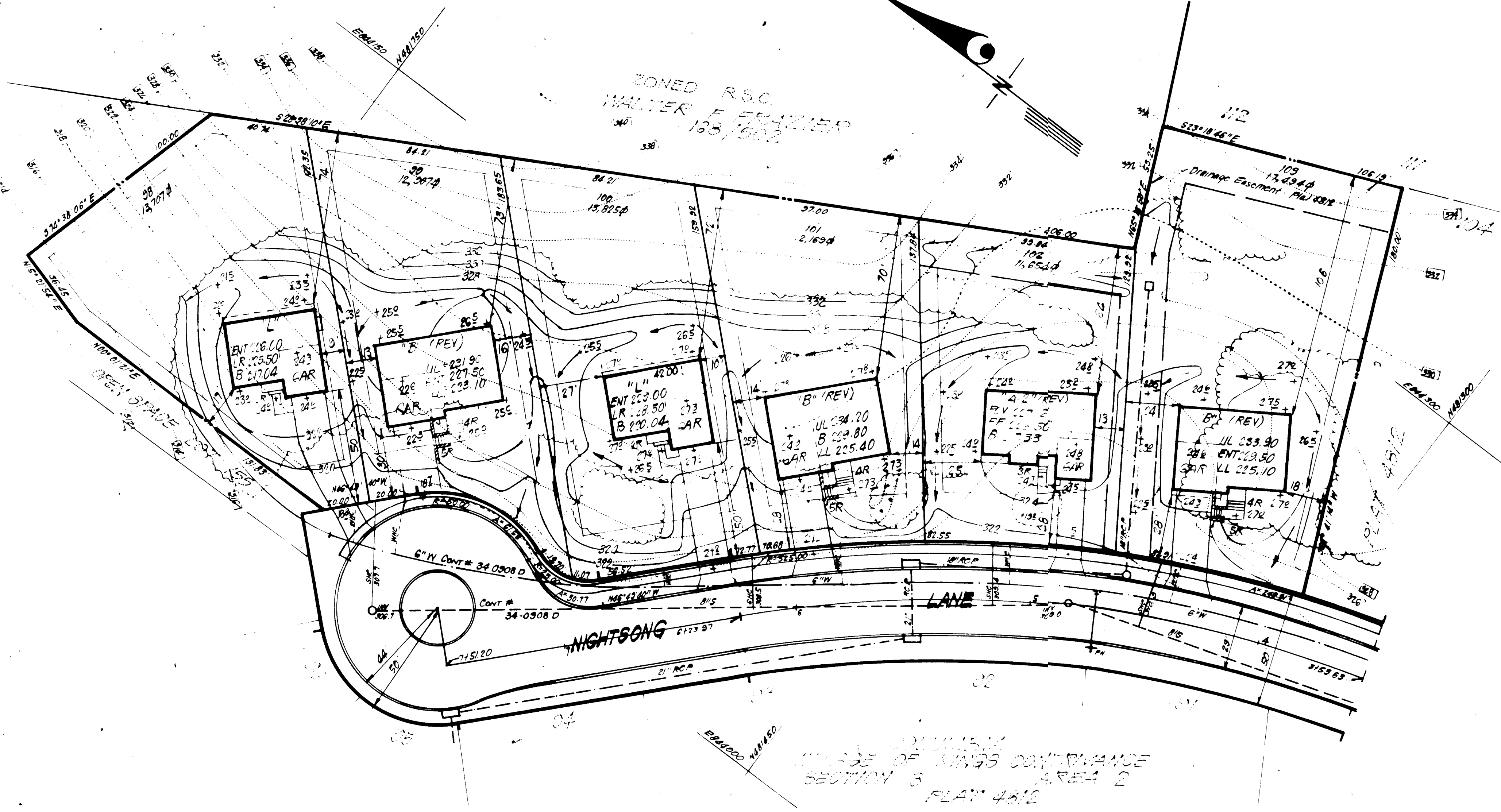
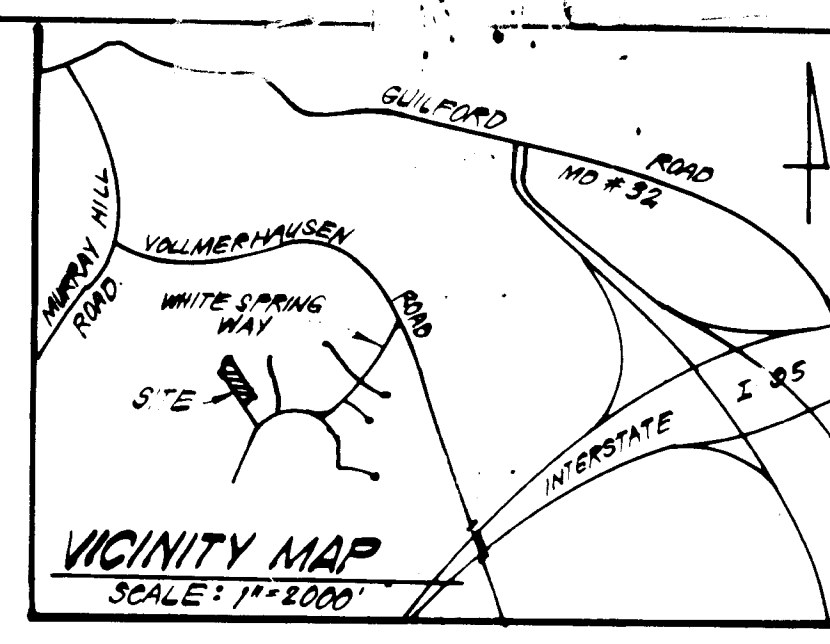
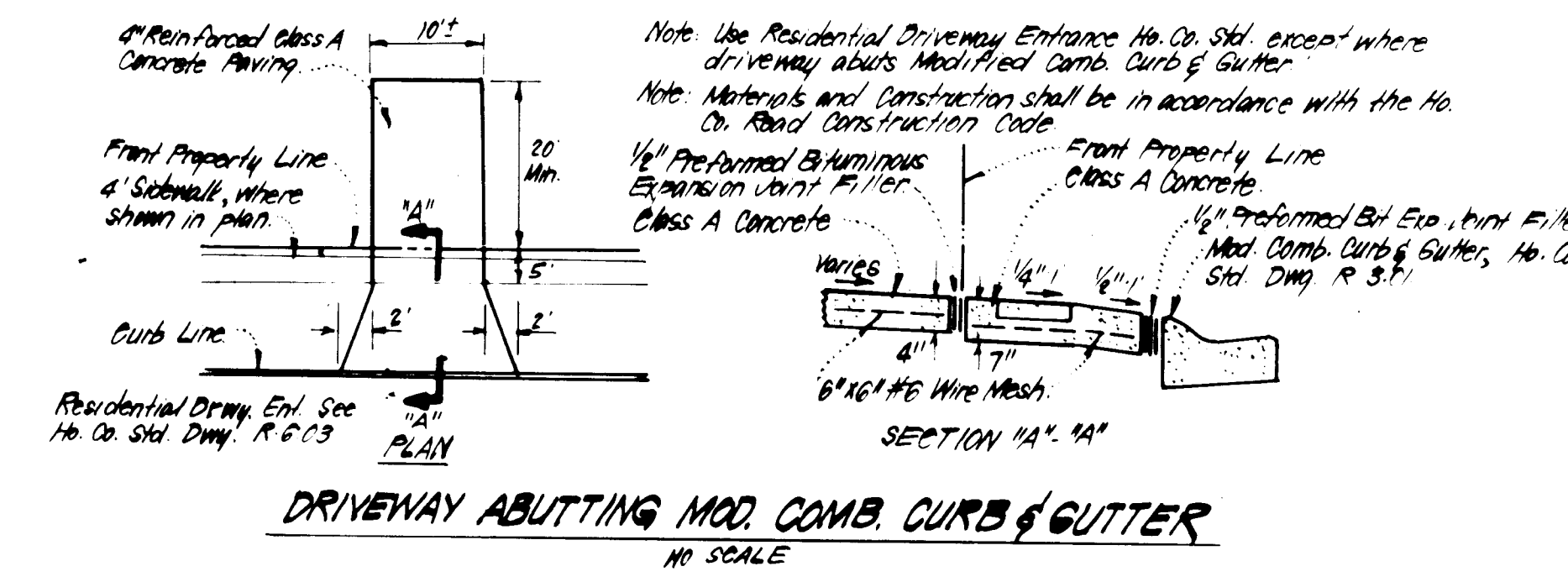
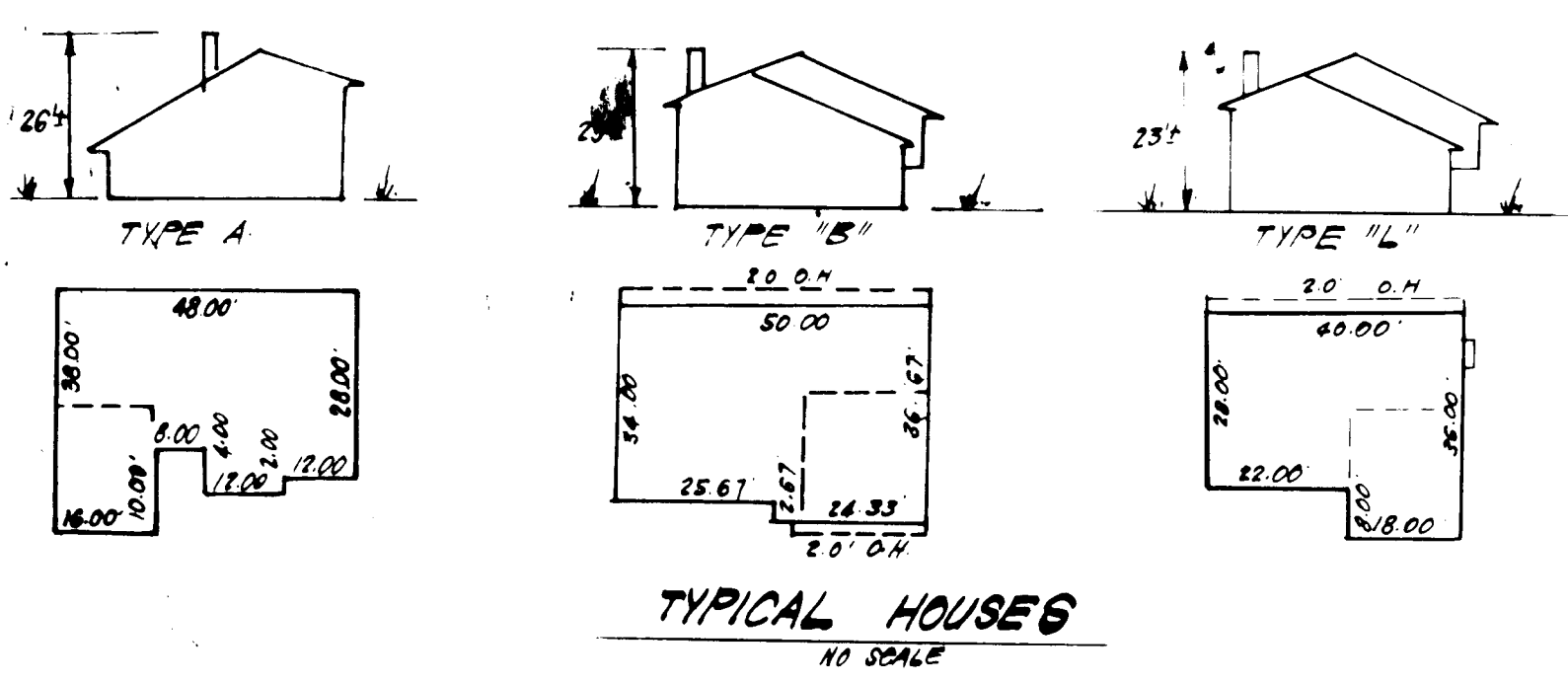


STREET ADDRESS	NEIGHBORING LANE
99	
100	9528
101	9524
102	9520
103	9516



- GENERAL NOTES:**
1. The Land included is Zoned New Town (SFMD)
 2. The coordinates shown hereon are based upon traverse controls for Columbia, established by Maps Inc. in 1965 and Purdum & Meschke in 1968, which controls were tied to the Maryland Bureau of Control Survey Monuments and to U.S. Coast & Geodetic Survey monuments in the Columbia area.
 3. The total area of this plan is 1.877 Acres
 4. All roadways are public & existing
 5. Any damage to County owned rights of way or paving shall be corrected at the developer's expense
 6. Total Number of Lots: 6

- LEGEND:**
1. Contour Interval 2 FT
 2. Existing Contour
 3. Proposed Contour
 4. Spot Elevation +0.5
 5. Direction of Drainage
 6. Existing Trees to be retained
 7. Wall-Out Basement



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
DATE 5-22-84

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE 5-22-84

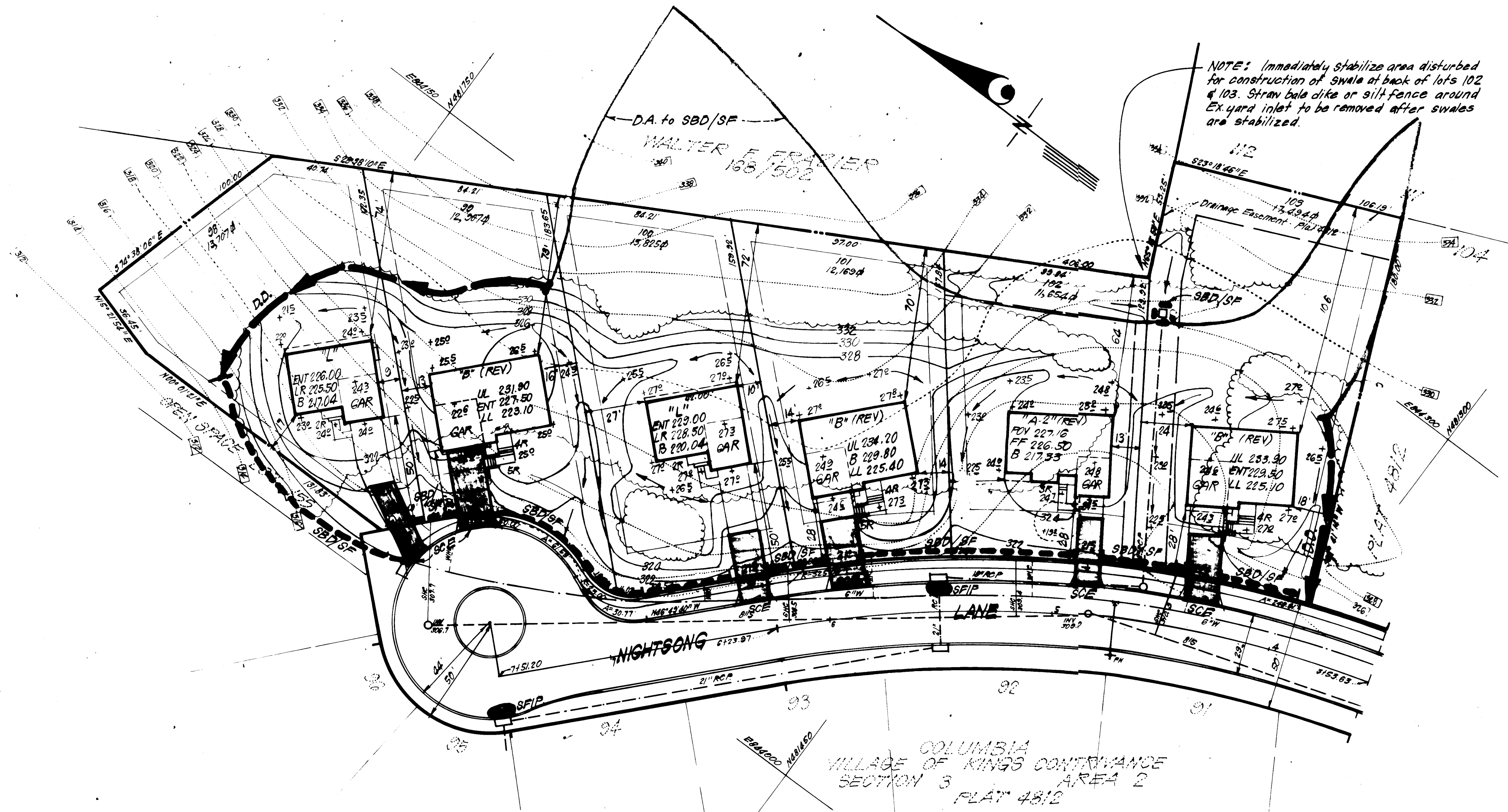
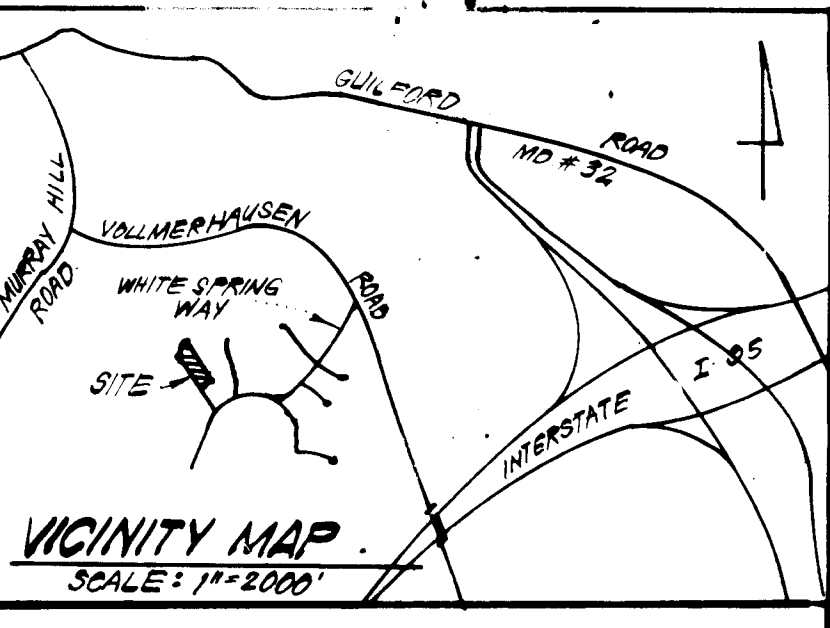
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE.
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE 5-16-84

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 5-3-84

SUBDIVISION NAME COLUMBIA - VOKC		SET/AREA 3/2	LOT NUMBER 98-103
PLAT # OR L.P. 4812	BLOCK # 21	PLAT/ZONE MAP NT	ELER. DIST. CHANGE TP. GTH 6062
WATER CODE E15		SEWER CODE 6240000	

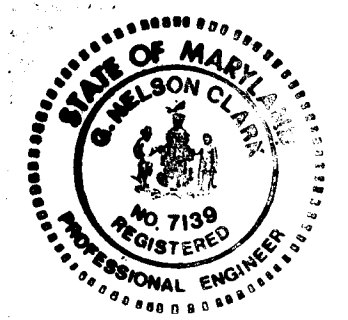
CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS		SCALE 1"=30'
11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 (301) 593 1400		DRAWING 10F3
DESIGNED J.M.E.	SITE DEVELOPMENT PLAN LOTS 98 THRU 103	JOB NO. 82 072
DRAWN K.I.W.	COLUMBIA	FILE NO. 82-072-X
CHECKED J.M.E.	VILLAGE OF KINGS CONTRIVANCE SECTION 3 AREA 2 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
DATE 3-30-84	FOR: ALLAN HOMES, INC. P.O. Box 1059 Columbia, Md 21044	

S.D.P. 84-239C



- LEGEND:**
- 1. Contour Interval 2 FT.
 - 2. Existing Contour (dashed line)
 - 3. Proposed Contour (solid line)
 - 4. Spot Elevation (+0.05)
 - 5. Direction of Drainage (arrow)
 - 6. Existing Trees to be retained (circle with 'X')
 - 7. Walk-Out Basement (W.O.B.)
 - 8. Diversion Dike (D.D.)
 - 9. Straw Bale Dike or Silt Fence (SBD/SF)
 - 10. Stone Filter Inlet Protection (SFIP)
 - 11. Stone Construction Entrance (SCE)

COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 3 AREA 2 FLAT 4812



SUBDIVISION NAME COLUMBIA - VOKC	SECT./AREA 3/2	LOT/MARCEL # 98-103
PLAT # OR L.P. BOOK # 4812 21	ZONE N.T.	PREVIOUS MAP ELEV. DET. VARIUS TR GTH 6062
WATER CODE E15	SEWER CODE 6240000	

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

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR
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
CHIEF BUREAU OF ENGINEERING

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE **5-3-84**

Reviewed for HOWARD S.C.D. Name
and meets Technical Requirements
MARK K. SALLY 5-18-84 Signature Date
U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED
SOIL EROSION AND SEDIMENT
CONTROL BY THE HOWARD SOIL
CONSERVATION DISTRICT

Joseph K. Bennett 5-18-84 Approved Date

DESIGNER'S CERTIFICATE
I hereby certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Soil Erosion beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as may be deemed necessary.

Alan Mischak 5-30-84 Signature Date
Alan Mischak

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.

Alan Mischak 5-30-84 Signature Date
Alan Mischak

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

DESIGNED: VLS
DRAWN: K/W
CHECKED: VLS
DATE: 5-30-84

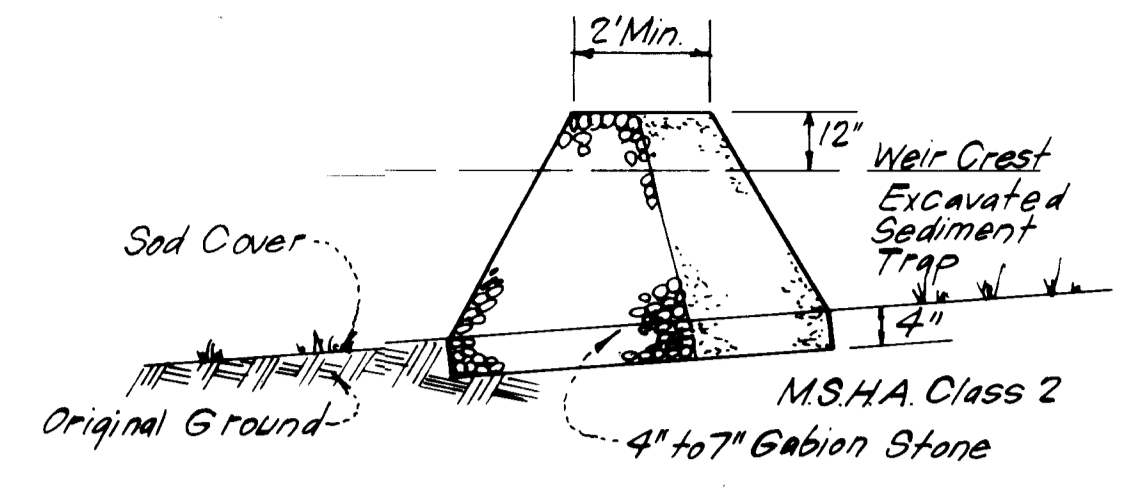
SCALE: 1"=30'
DRAWING: 2 OF 3
JOB NO.: 82.072
FILE NO.: 82-072-S2

SEDIMENT & EROSION CONTROL PLAN
LOTS 98 THRU 103
COLUMBIA
VILLAGE OF KINGS CONTRIVANCE
SECTION 3 AREA 2
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

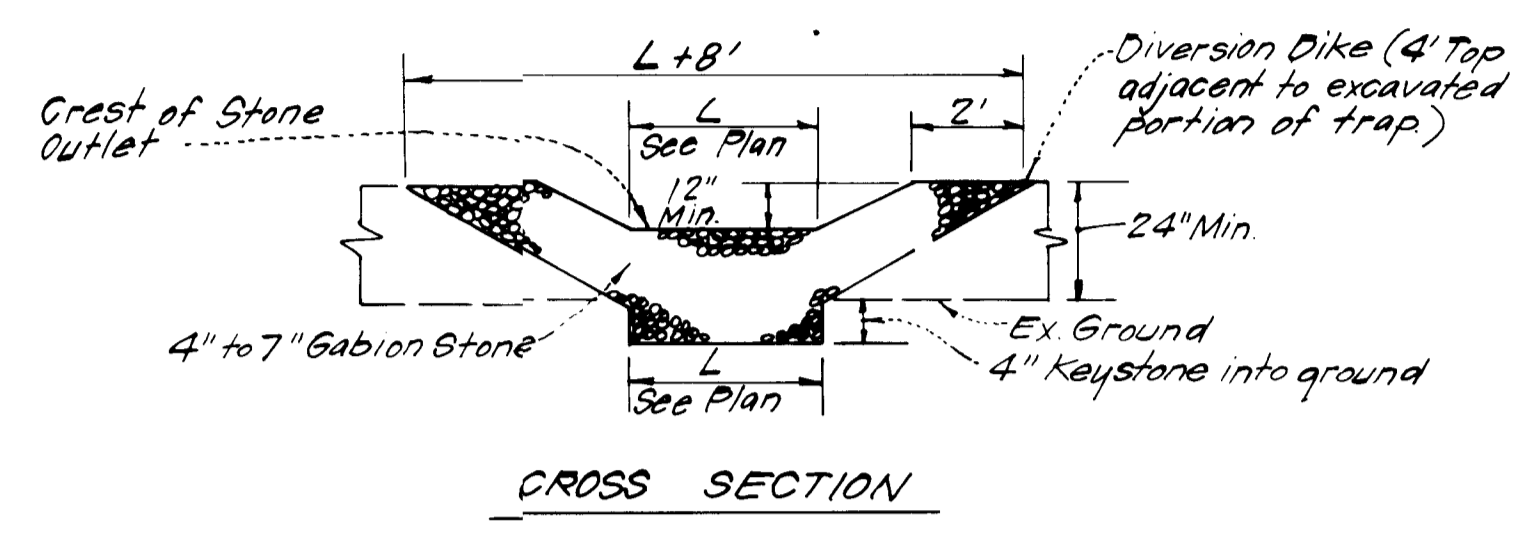
FOR: **ALLAN HOMES, INC.**
P.O. BOX 105-B
COLUMBIA, MD 21044
SDP-84-239c

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 = 491 L.F.
- SITE ANALYSIS:
 - A. Total Area: 1.877 Acres
 - B. Area to be Roofed: 0.227 Acres
 - C. Area to be Paved: 0.082 Acres
 - D. Area to be Seeded: 0.882 Acres
 - E. Area Undisturbed: 0.676 Acres.
- CONSTRUCTION SEQUENCE:
 - A. Install Sediment & Erosion Control Devices and Stabilize Diversion Dike.
 - B. Excavate for Foundations and Rough Grade.
 - C. Construct Structures, Driveways and Sidewalks.
 - D. 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.



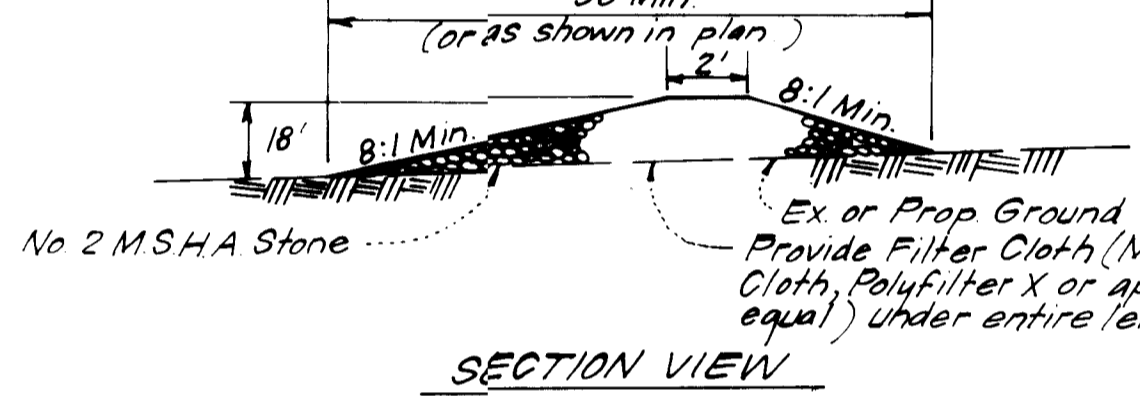
PROFILES
Note: For Dimensions not shown see plan.



- 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.

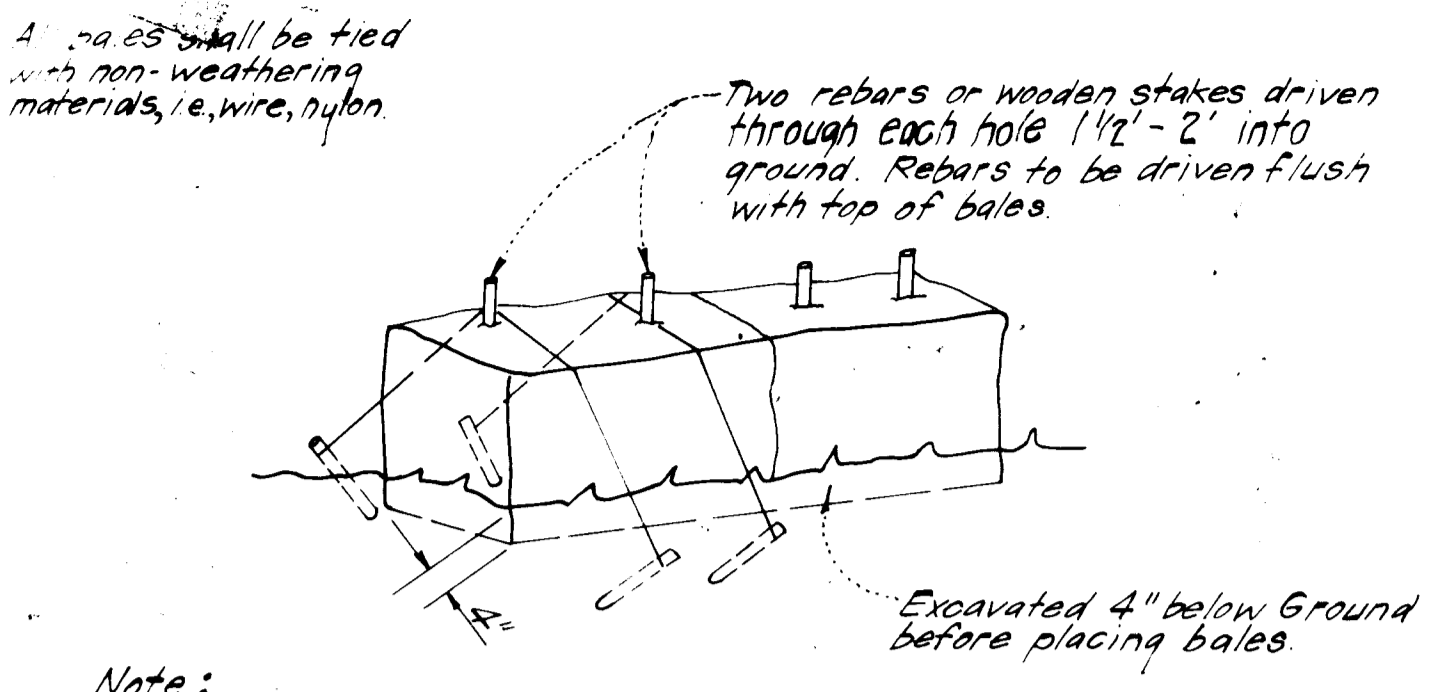
DETAILS OF STONE FILTER OUTLET FOR STONE OUTLET SEDIMENT TRAP (S.O.S.T.)

NO SCALE



STONE CONSTRUCTION ENTRANCE (S.C.E.)

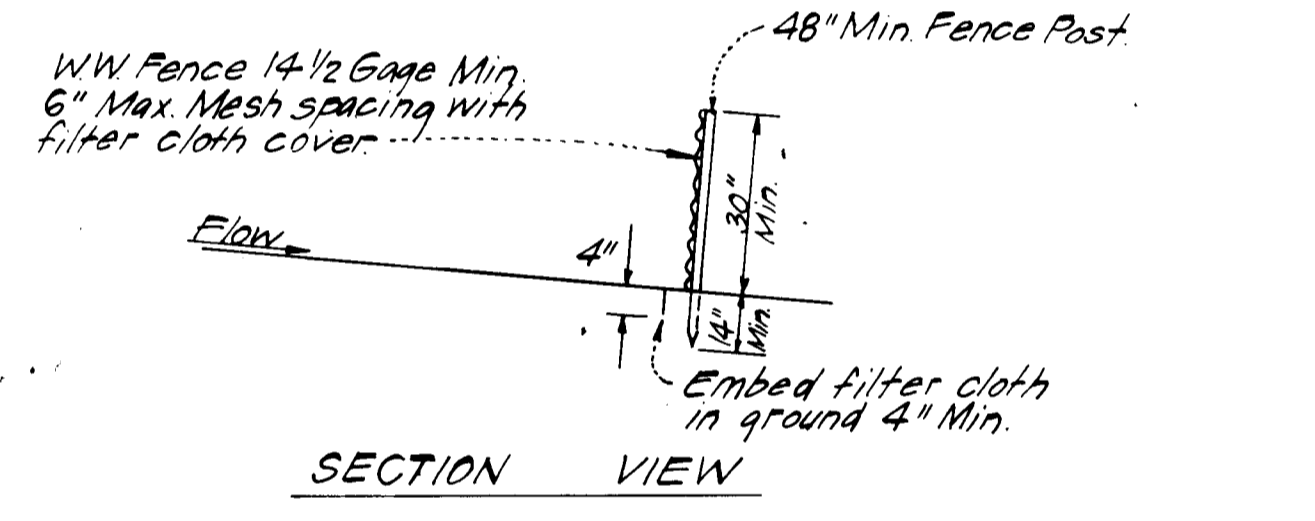
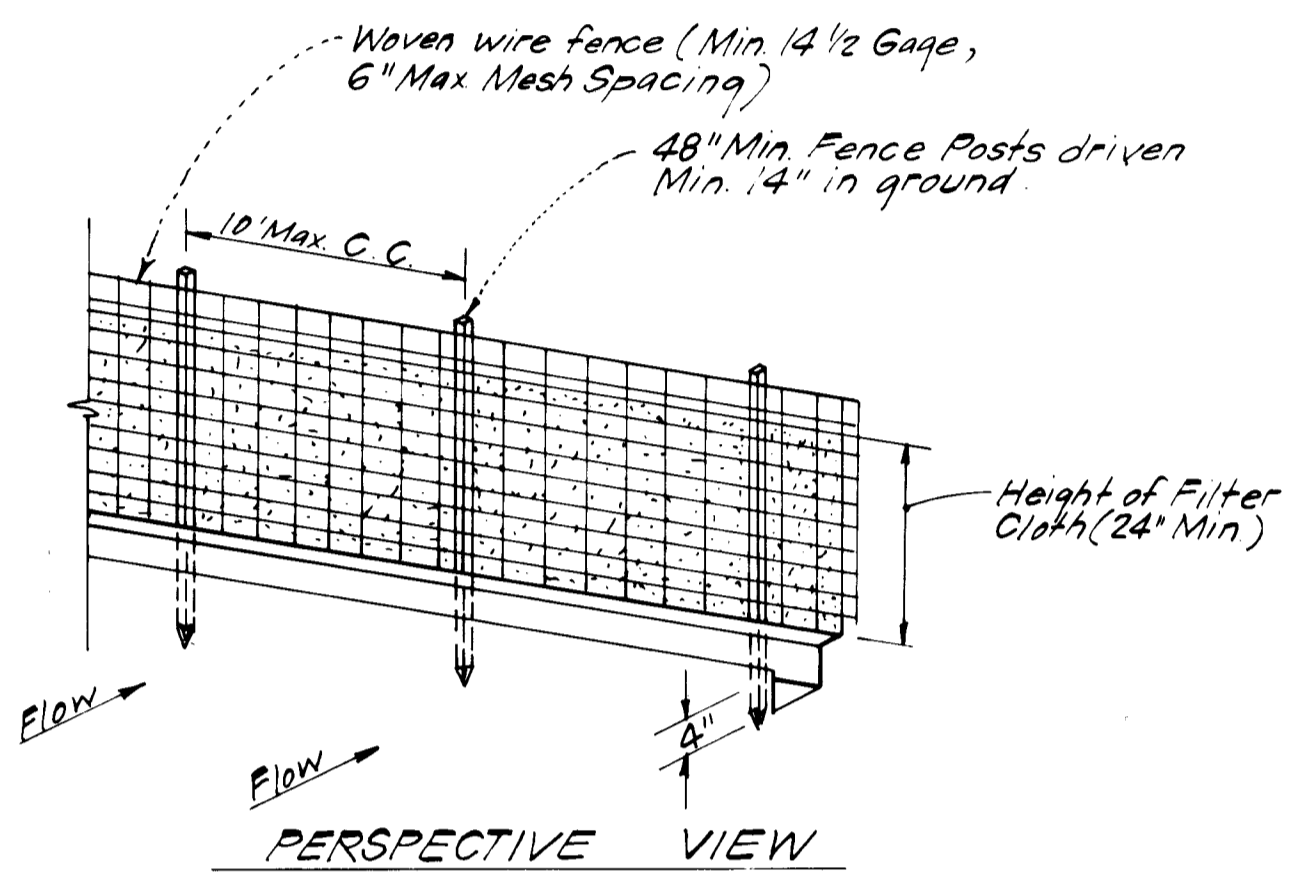
NO SCALE



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).

STRAW BALE DIKE DETAIL (S.B.D.)

NO SCALE



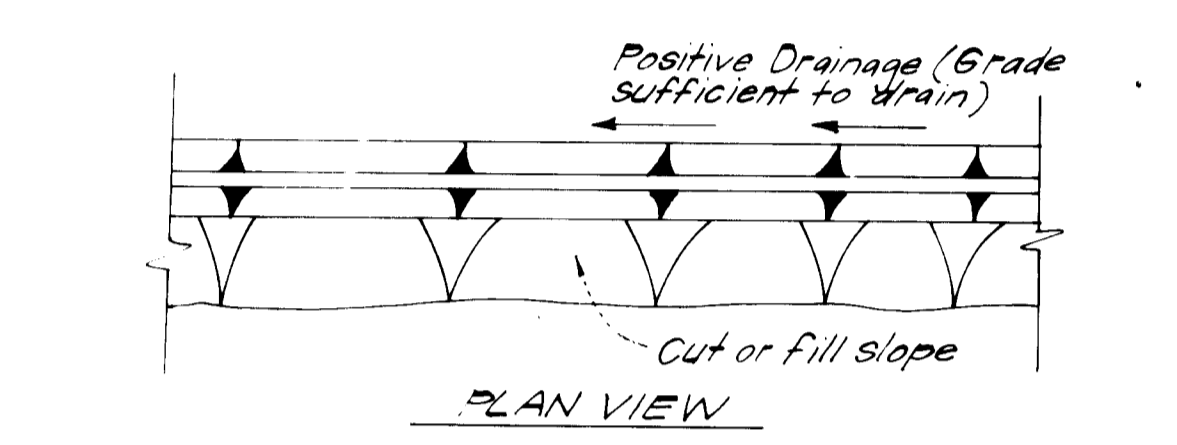
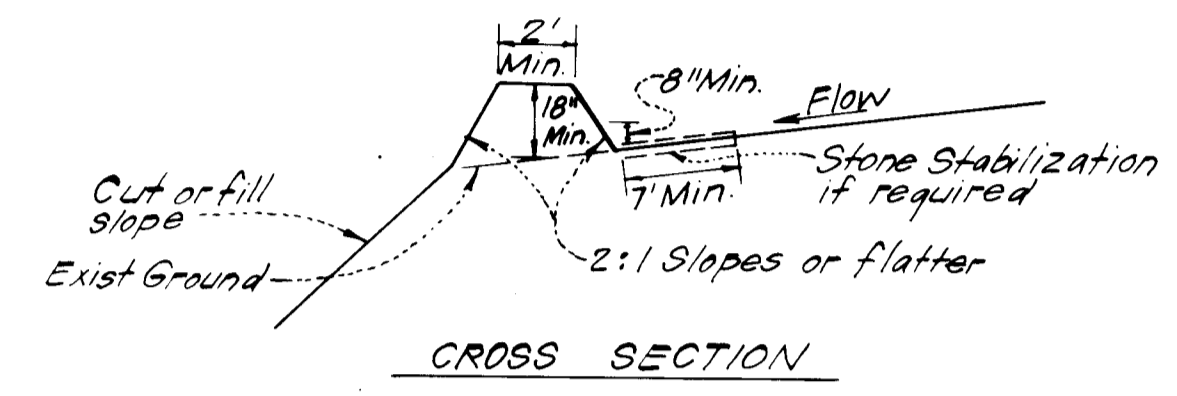
- CONSTRUCTION NOTES:
- Woven wire fence to be fastened securely to fence posts with wire ties or staples.
 - Filter cloth to be fastened securely to woven wire fence with wire ties spaced every 24\"/>
- POSTS: Steel, either T or L type or 2\"/>

FENCE: Woven wire, 14 1/2 Ga, Max 6\"/>

FILTER CLOTH: Filter X, Mirafi 100X, Laurel Erosion Control Cloth, Bidim, Polyfilter X or equal.

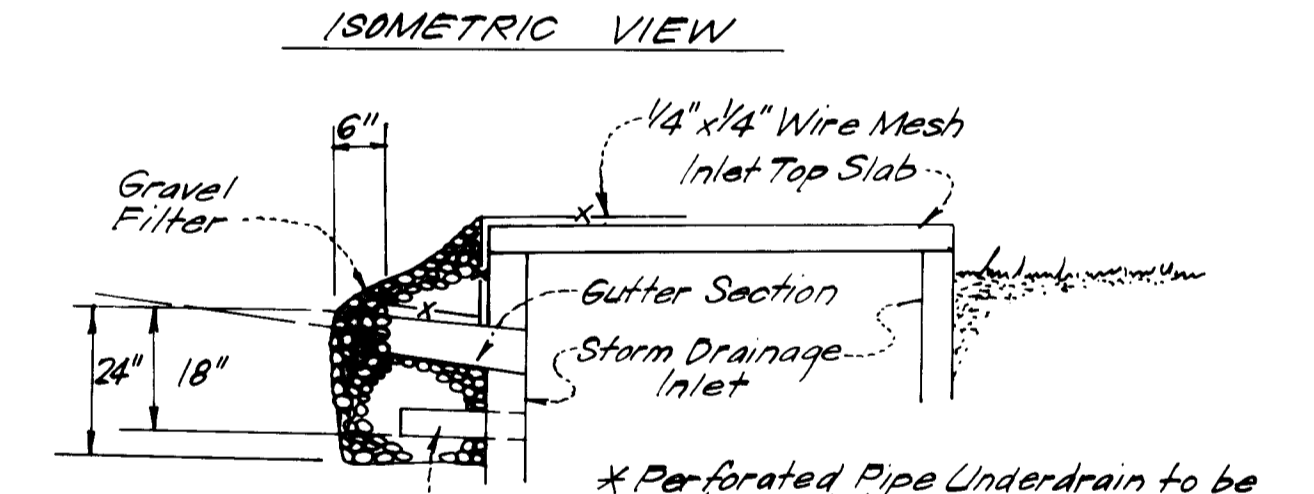
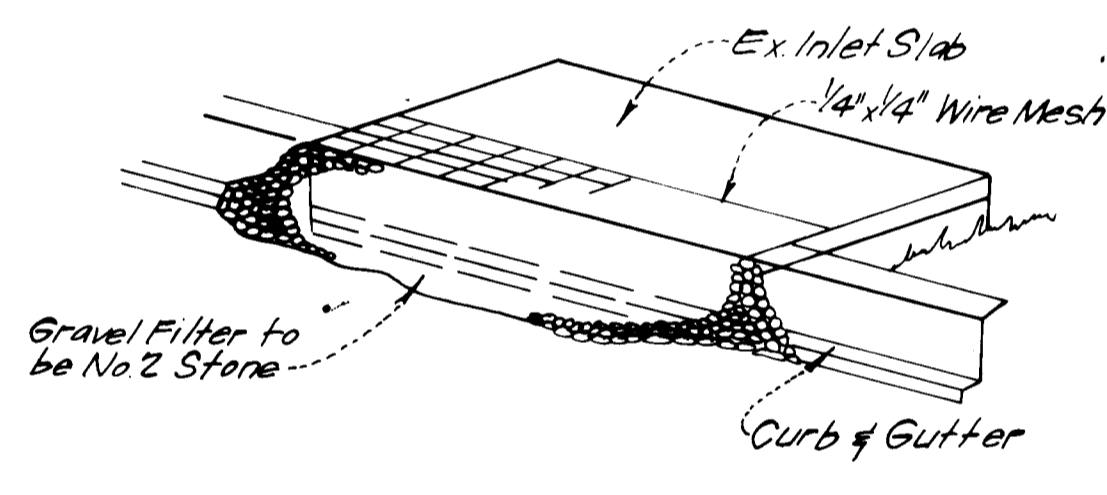
SILT FENCE DETAIL (S.F.)

NO SCALE



DIVERSION DIKE (D.D.)

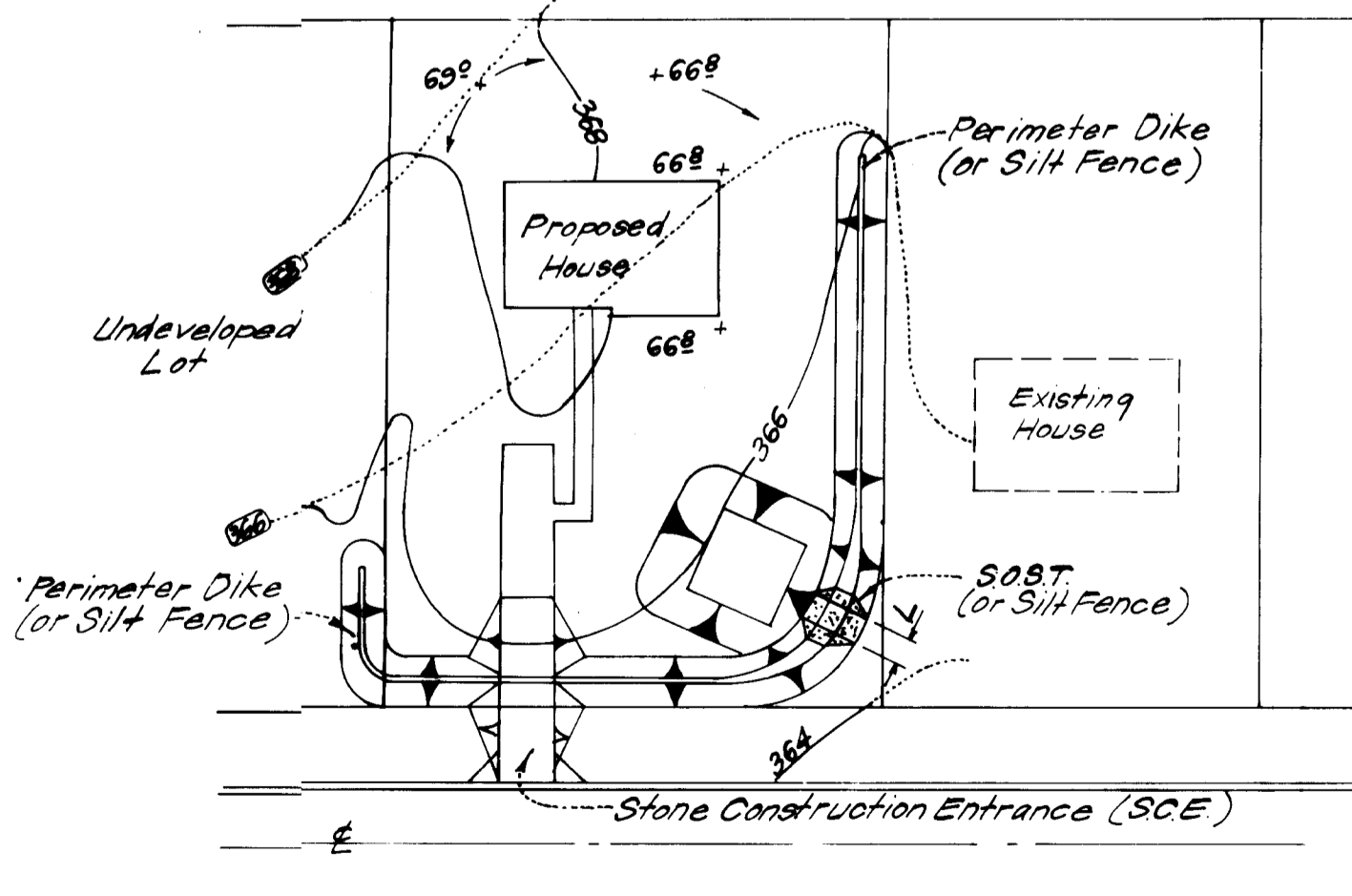
NO SCALE



- * Perforated Pipe Underdrain to be installed at time of inlet construction. Do not install perforated pipe and stone below ground if inlet and/or paving are constructed.

STONE FILTER INLET PROTECTION (S.F.I.P.)

NO SCALE



SINGLE LOT SEDIMENT CONTROL PLAN

NO SCALE

S.O.S.T. *			
Lot Size	1/8 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 of for detail (not shown).
** Can be adjusted in field but bottom area must be the given or greater.



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.

John C. Clark 4-2-89
John C. Clark Date

DEVELOPER'S/BUILDER'S CERTIFICATE

"I hereby certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction 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."

Alan Washak 5/2/89
Signature of Developer/Builder Date
Alan Washak

CLARK · FINEFROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS

11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400

DESIGNED	JLS	SCALE	1" = 30'
DRAWN	JLS	DRAWING	30F3
CHECKED	JLS	JOB NO	82-072
DATE	3-30-84	FILE NO	82-072-5E

SEDIMENT & EROSION CONTROL PLAN
LOTS 38 THRU 103
COLUMBIA
VILLAGE OF KINGS CONTRIVANCE
SECTION 3 AREA 2
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR: ALLAN HOMES, INC.
P.O. Box 1058
Columbia, Md 21044
SDP-84-239c

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

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

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 5-3-84

Reviewed for: *Howard* S.C.D.
Name
and meets Technical Requirements
John C. Clark 5-14-84
Signature Date
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED
SOIL EROSION AND SEDIMENT
CONTROL BY THE HOWARD SOIL
CONSERVATION DISTRICT.

Joseph K. Dominick 5-14-84
Approved Date