

NO.	REVISION	DATE
1	Use Type F Gr. rev on Lot 118 from Blair to Charleston	12-20-82
2	Use Type F Gr. rev on Lot 113 from Buckingham to Westbridge & Lot 112 from Blair to Sheraton/Don	1-20-83
3	Use Type F Gr. rev on Lot 112 from Shenan, to Charleston	1-21-83

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 2-22-83

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE: 2-24-83

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 1-22-83

DATE: 2-18-83

GENERAL NOTES:

- The Land included in this plan is zoned New Town (B.F.M.D.).
- The Lots shown on this plan are covered by Final Development Plan Phase 178, Part III.
- All coordinates shown herein are based on Howard County Geodetic Control Traverse which is based upon the Maryland State Plane Coordinate System.
- The area covered is located on Tax Map # 82.
- The total area included in this plan is 5.915 Acres.
- All roadways are public & existing.
- Any damage to County owned rights of way or paving shall be corrected at the developer's expense.
- Total Number of Lots: 22.

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 12-10-82

LEGEND:

1. Contour Interval	2'FL
2. Existing Contour	100'
3. Proposed Contour	140'
4. Spot Elevation	1405
5. Direction of Drainage	→
6. Existing Trees to be Retained	(Symbol)
7. Walkout Easement	(Symbol)

PLAT REF: PLATS 4927, 4928, 4929, 4950, 5225

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

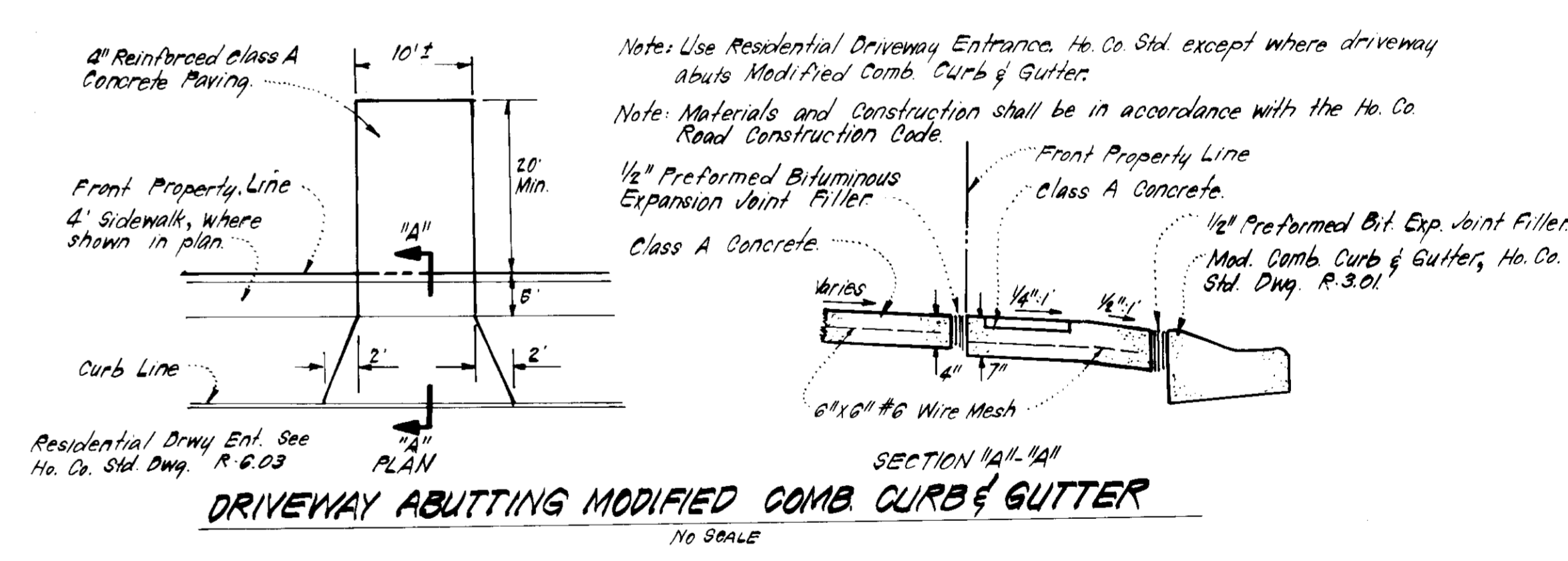
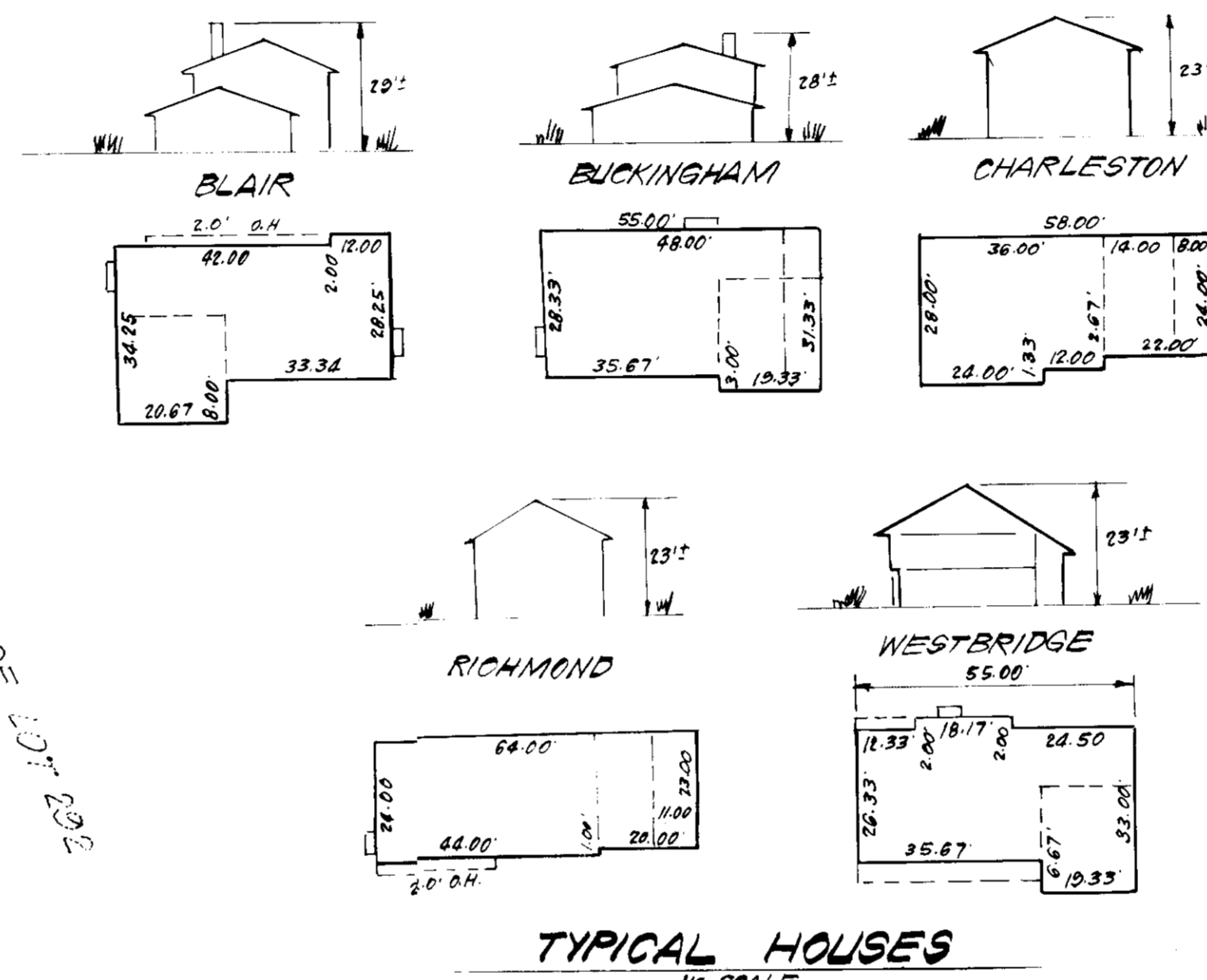
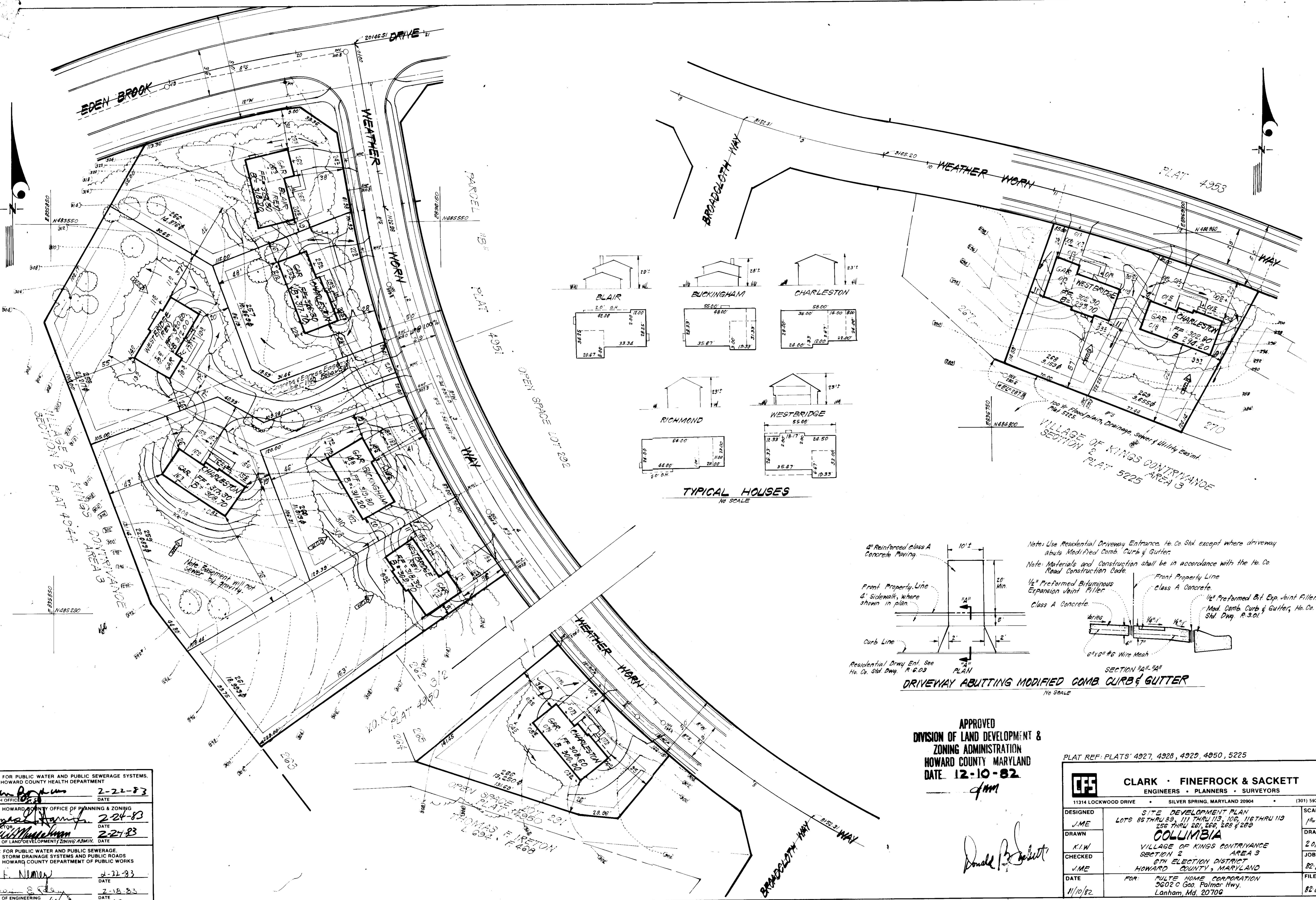
DESIGNED	JME	SCALE	1"=30'
DRAWN	JME	DRAWING	102.5
CHECKED	K.I.W.	JOB NO.	82-038
DATE	11/10/82	FILE NO.	82-038-X

SITE DEVELOPMENT PLAN
LOTS 85 THRU 89, 111 THRU 113, 106, 116 THRU 119
256 THRU 261, 266, 268 & 269
COLUMBIA
VILLAGE OF KINGS CONTRIVANCE
SECTION 2 AREA 3
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
FOR: ULTE HOME CORPORATION
3602 C Geo. Palmer Hwy.
Lanham, Md. 20706

Donald B. Sackett

SDP-83-52c

2 Timber Retaining Walls 3' in height.

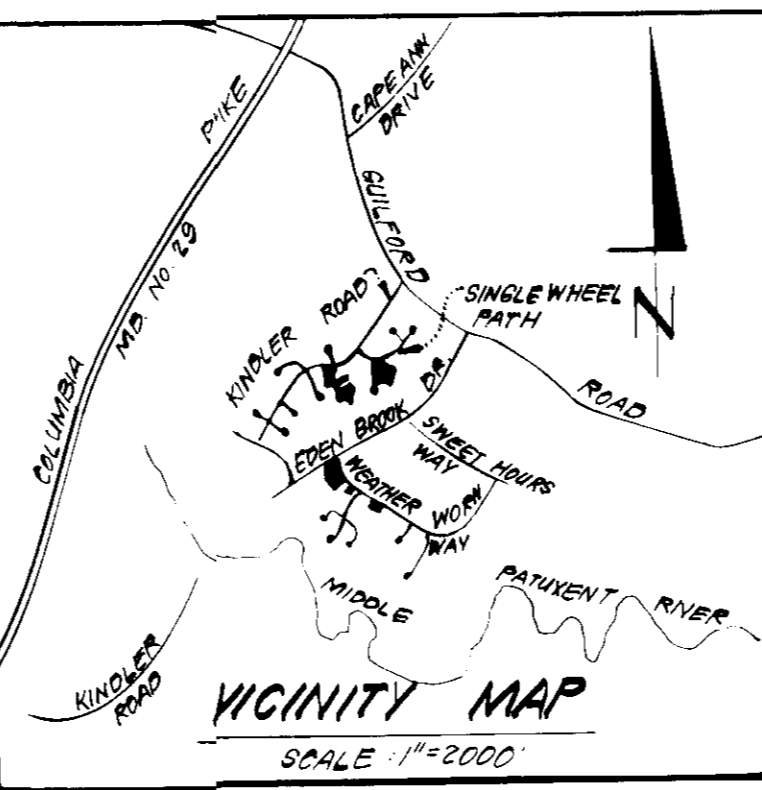
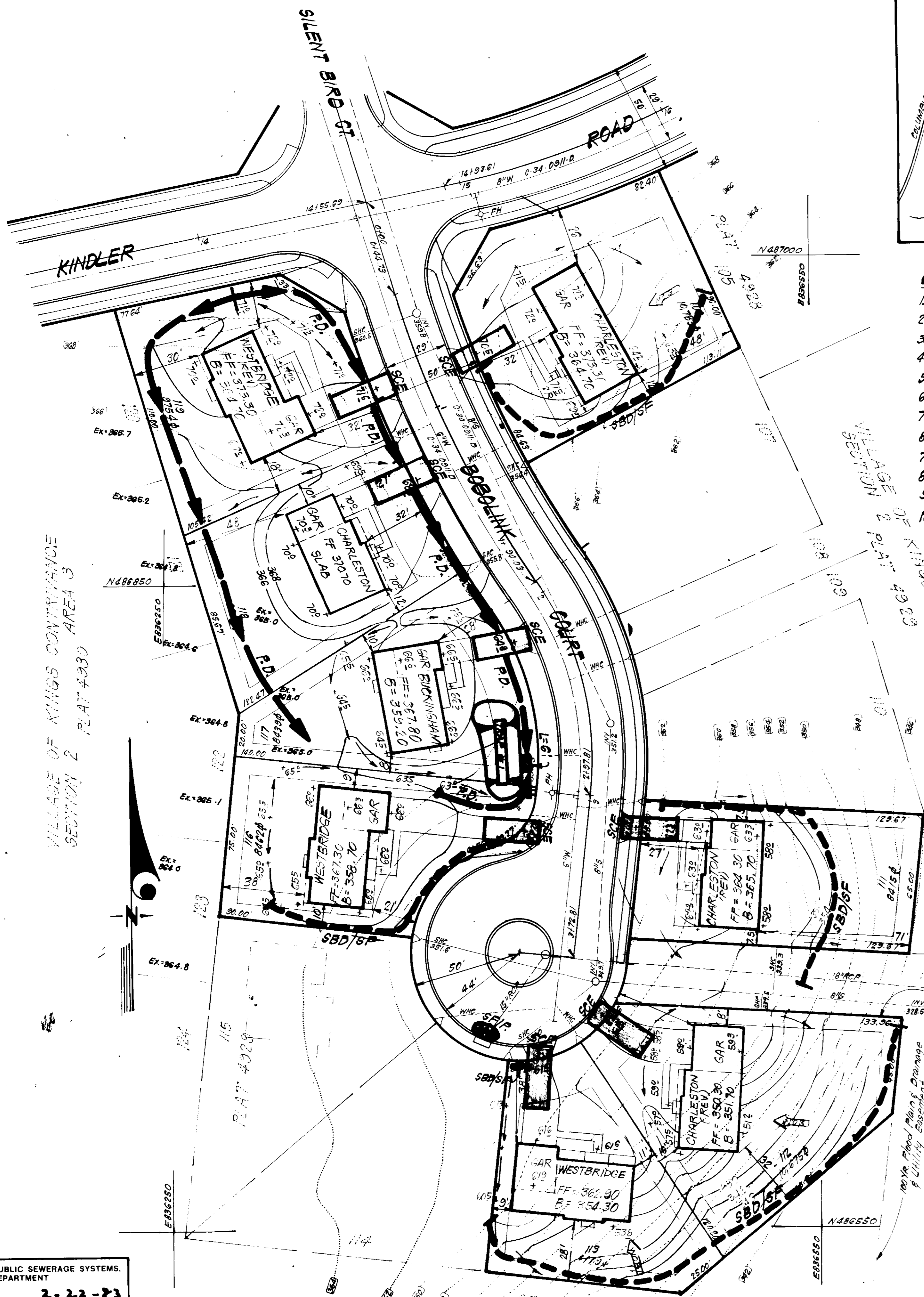


APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY MARYLAND
 DATE 12-10-82
 JMM

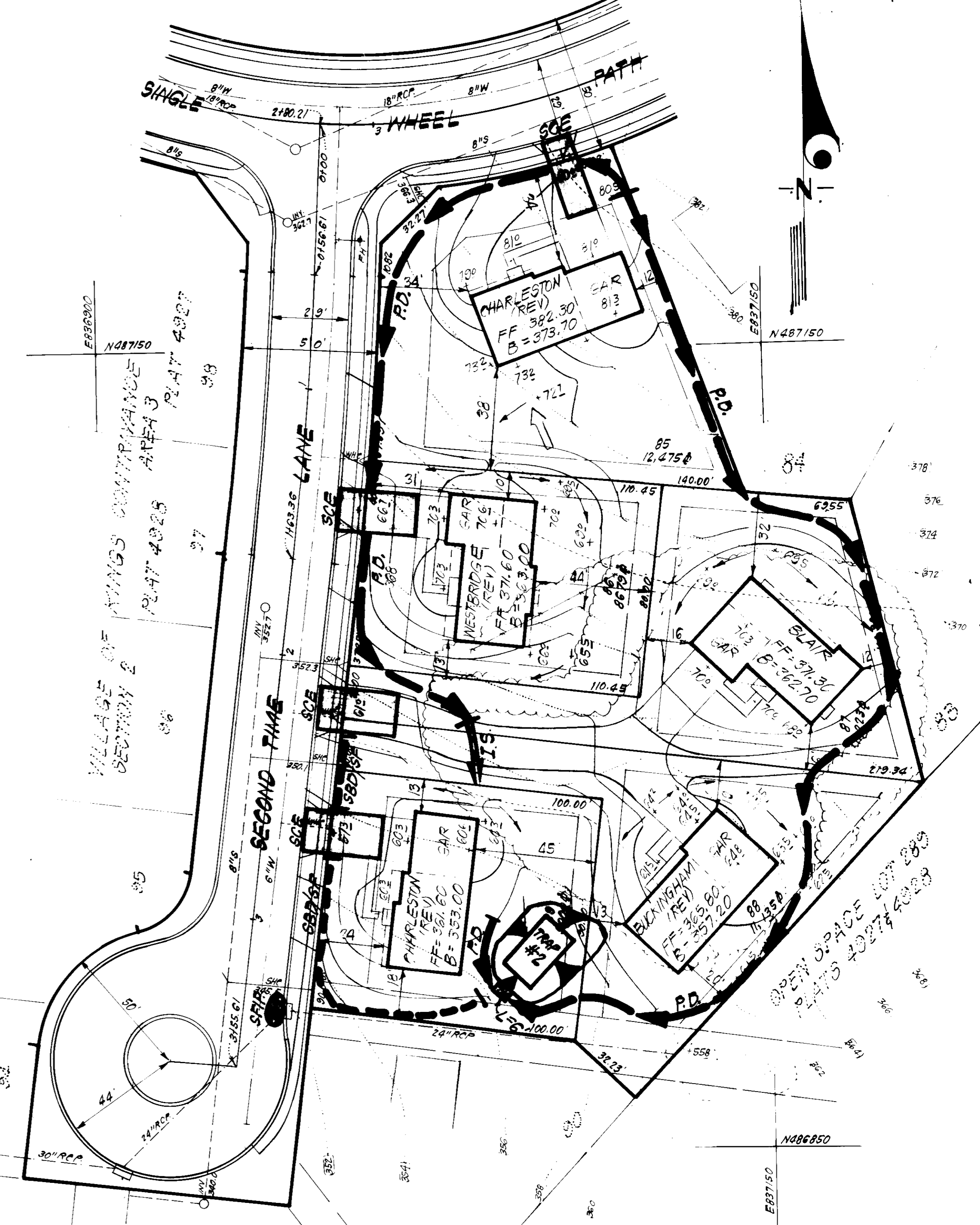
PLAT REF: PLATS 4927, 4928, 4929, 4950, 5225

CLARK · FINEFROCK & SACKETT ENGINEERS · PLANNERS · SURVEYORS		(301) 593-3400
11314 LOCKWOOD DRIVE	SILVER SPRING, MARYLAND 20904	
DESIGNED JME	SITE DEVELOPMENT PLAN LOTS 85 THRU 89, 111 THRU 113, 106, 116 THRU 119 256 THRU 261, 266, 268 & 269	SCALE 1"=30'
DRAWN K.I.W.	COLUMBIA	DRAWING 2 OF 5
CHECKED JME	VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 82-038
DATE 11/10/82	FOR: PULTE HOME CORPORATION 3602 C Geo. Palmer Hwy. Lanham, Md. 20706	FILE NO. 82-038-X

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	DATE 2-22-83
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING	DATE 2-24-83
PLANNING DIRECTOR	DATE 2-27-83
CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMIN.	DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	DATE 2-22-83
DIRECTOR	DATE 2-18-83
CHIEF BUREAU OF ENGINEERING	DATE 2-18-83



- LEGEND:**
1. Contour Interval 2' F.T.
 2. Existing Contour
 3. Proposed Contour
 4. Spot Elevation +60E
 5. Direction of Drainage
 6. Perimeter Dike
 7. Diversion Dike
 8. Interceptor Swale
 9. Straw Bale Dike or Silt Fence
 10. Stone Filter Inlet Protection
 11. Stone Construction Entrance
 12. Sediment Trap



TRAP #1 S.O.S.T. ST. 3
 D.A. = 0.6 Acres
 Storage Required = 0.6(1800) = 1080 cf
 Storage Provided = 1080 cf
 Depth = 3'
 Top of Stone Crest = 364.0
 Bottom Elevation = 361.0
 Bottom Dimensions = 30' x 4'

TRAP #2 S.O.S.T. (ST. 3)
 D.A. = 1.0 Acres
 Storage Required = 1(1800) = 1800 cf
 Storage Provided = 1800 cf
 Depth = 3'
 Top of Stone Crest = 357.0
 Bottom Elevation = 354.0
 Bottom Dimensions = 24' x 4'

I hereby certify that all development and construction will be done in accordance with the approved plan for erosion and sediment control. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as deemed necessary.

APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 12-10-82

Signature of Developer/Builder
 Thomas Lawrence

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE 2-23-83

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 DATE 2-24-83

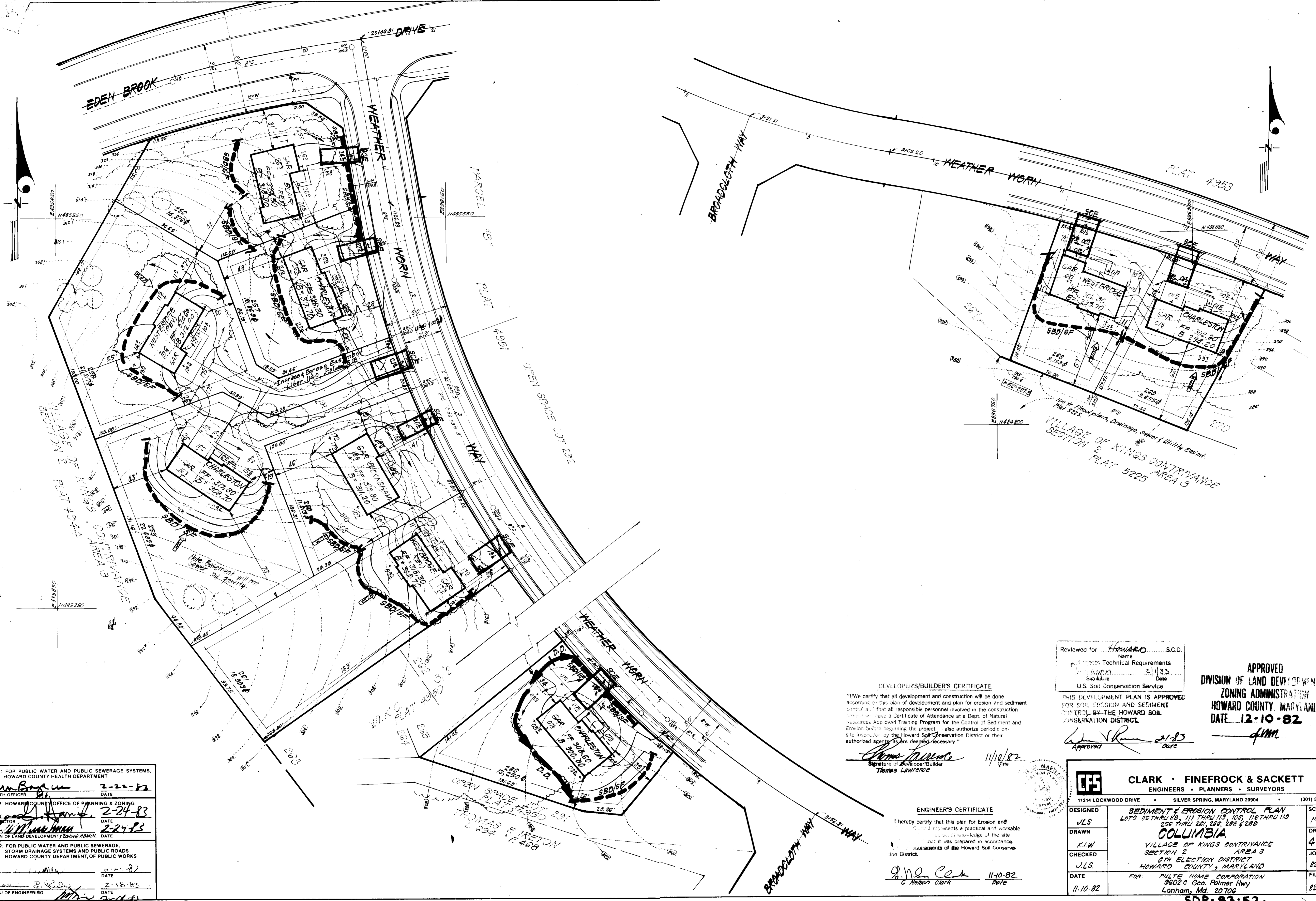
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DATE 2-26-83

Reviewed for S.C.D. Technical Requirements
 Signature: [Signature]
 Date: 2/1/83
 U.S. Soil Conservation Service
 APPROVAL: [Signature]
 Date: 2-1-83

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: 11-10-82

CLARK · FINEFROCK & SACKETT ENGINEERS · PLANNERS · SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20994 (301) 593-3400				
DESIGNED	JLG	SEDIMENT & EROSION CONTROL PLAN LOTS 85 THRU 89, 111 THRU 113, 106, 116 THRU 119 256 THRU 261, 266, 268 & 269 COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: ULTE HOME CORPORATION 5602 G Geo. Palmer Hwy Lanham, Md. 20706	SCALE	1" = 30'
DRAWN	JLG		DRAWING	3-25
CHECKED	JLS		JOB NO.	82-038
DATE	11-10-82		FILE NO.	82-038 SE
			DATE	11-10-82

SDP-83-52-L



Reviewed for Howard S.C.D.
 Name
 Technical Requirements
 Signature
 Date
 U.S. Soil Conservation Service

APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 12-10-82

DEVELOPER'S/BUILDER'S CERTIFICATE
 "I hereby 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."

Thomas Lawrence 11/10/82
 Signature of Developer/Builder
 Thomas Lawrence
 Date

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

G. Nelson Clark 11-10-82
 Signature
 G. Nelson Clark
 Date

CLARK · FINEFROCK & SACKETT ENGINEERS · PLANNERS · SURVEYORS 11314 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 (301) 593-3400			
DESIGNED	JLS	SCALE	1"=30'
DRAWN	K.I.W.	DRAWING	4 OF 5
CHECKED	JLS	JOB NO.	82-038
DATE	11-10-82	FILE NO.	82-038 SE
SEDIMENT & EROSION CONTROL PLAN LOTS 85 THRU 89, 111 THRU 113, 106, 116 THRU 119 256 THRU 261, 268, 278 & 283 COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 2 AREA 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: PULTE HOME CORPORATION 9602 C. Geo. Palmer Hwy Lanham, Md. 20706		SDP-83-52.	

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

James Boyd 2-22-83
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR 2-24-83
 DATE

John W. Mann 2-27-83
 CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. DATE

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

DIRECTOR 2-18-83
 DATE

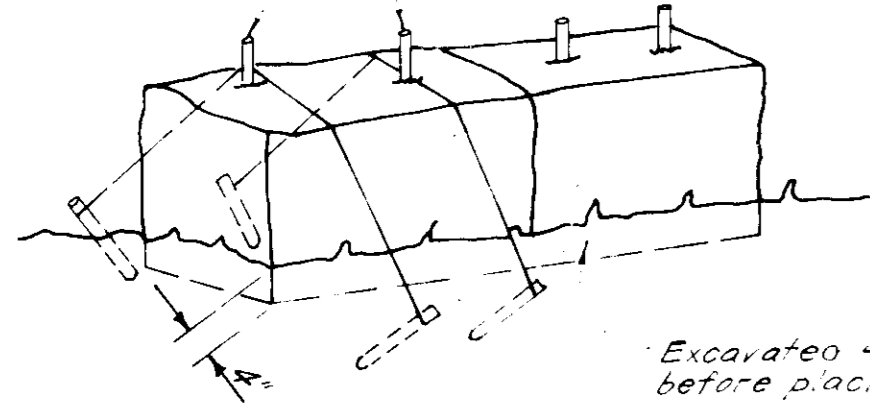
CHIEF BUREAU OF ENGINEERING 2-11-83
 DATE

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 4 lbs/1000 sf
- Notify the Bureau of Inspections and Permits at least 24 hrs 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 area to be stabilized in accordance with the following Specifications:
 - A 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
 - B Fertilizer - 10-10-10 applied at a rate of 23 lbs/1000 sf Ground Agricultural Lime or Dolomitic Lime applied at a rate of 30 lbs/1000 sf
 - C 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
 - D 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
- Total Amount of Straw Bales or Silt Fence shown = 1950 L.F.
- SITE ANALYSIS:
 - A Total Area: 5.915 Acres
 - B Area to be Roofed: 0.817 Acres
 - C Area to be Paved: 0.422 Acres
 - D Area to be Seeded: 2.624 Acres
 - E Area Undisturbed: 2.052 Acres
- CONSTRUCTION SEQUENCE:
 - A Install Sediment & Erosion Control Devices and Stabilize Diversion Dike
 - B Excavate for Foundations and Rough Grade
 - C Erect 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.

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

Two rebars or wooden stakes driven through each bale 1/2" into ground. Rebars to be driven flush with top of bales

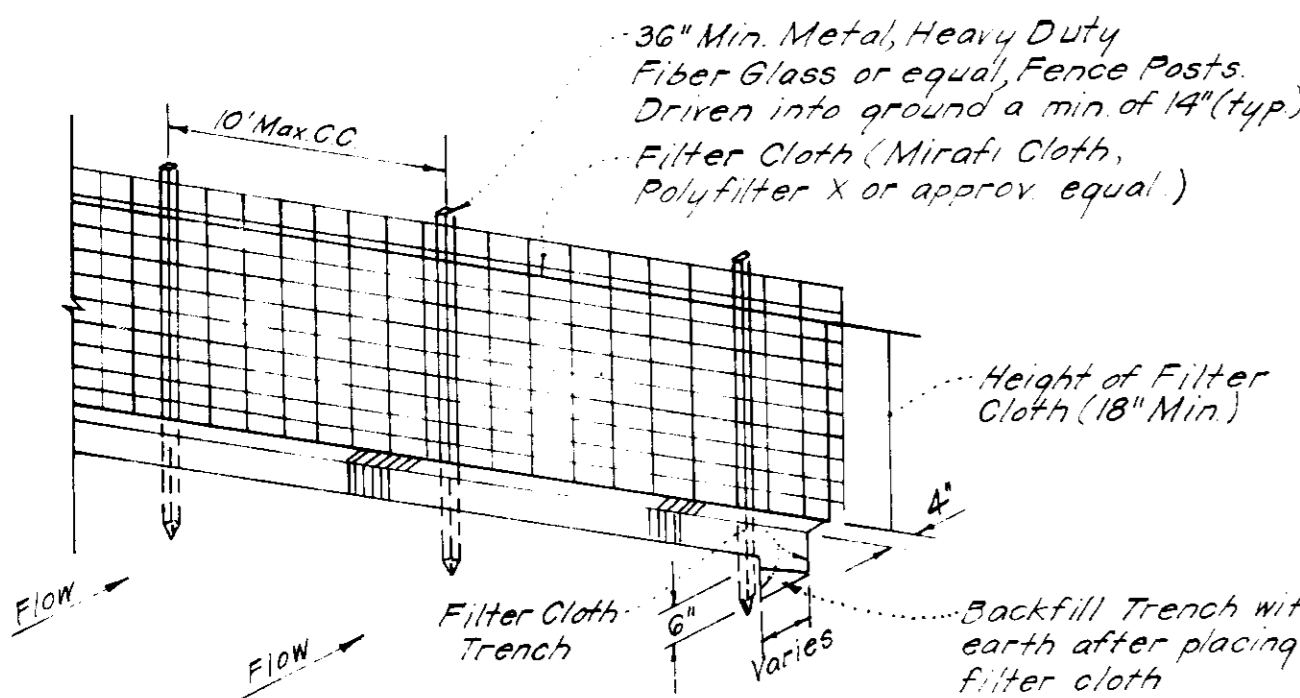


Excavate 4" below ground before placing bales

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 (SBD)
NO SCALE

Woven wire fence - Min 14 gage;
6" Max spacing



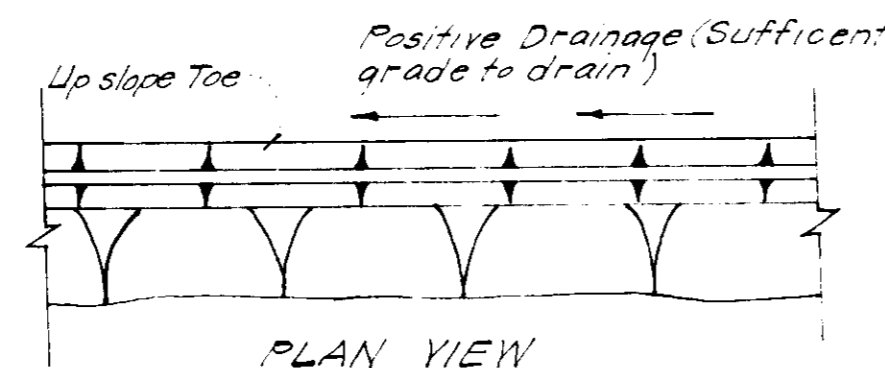
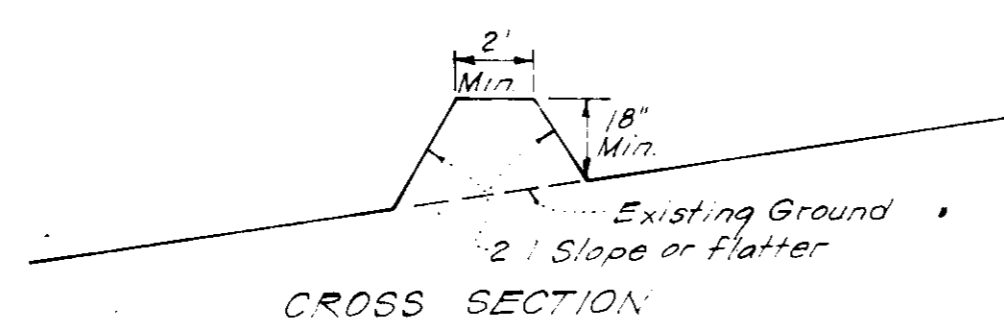
36" Min. Metal, Heavy Duty Fiber Glass or equal, Fence Posts Driven into ground a min of 14" (typ)
Filter Cloth (Miraf Cloth, Polyfilter X or approved equal)

Height of Filter Cloth (18" Min)

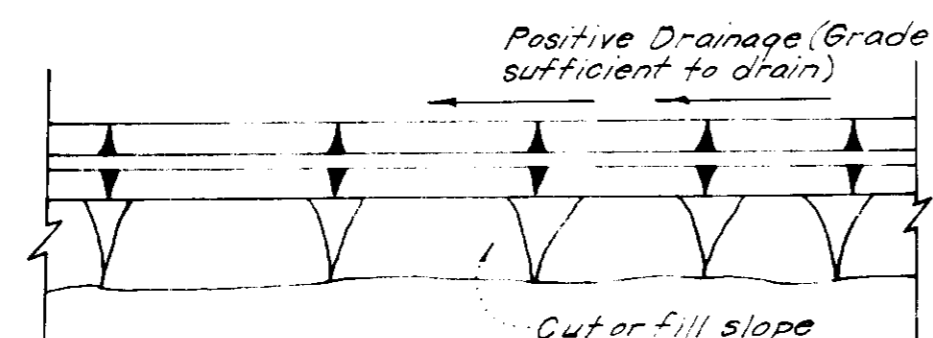
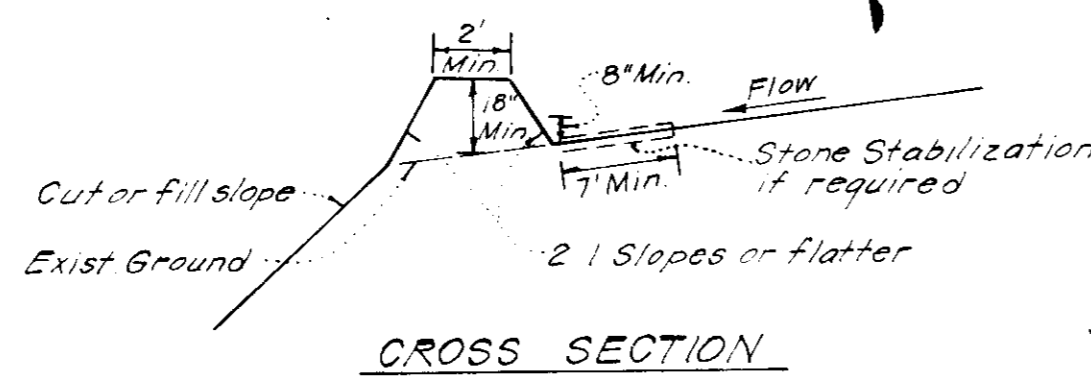
Backfill Trench with earth after placing filter cloth

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, by use of wire ties spaced every 24"x24"

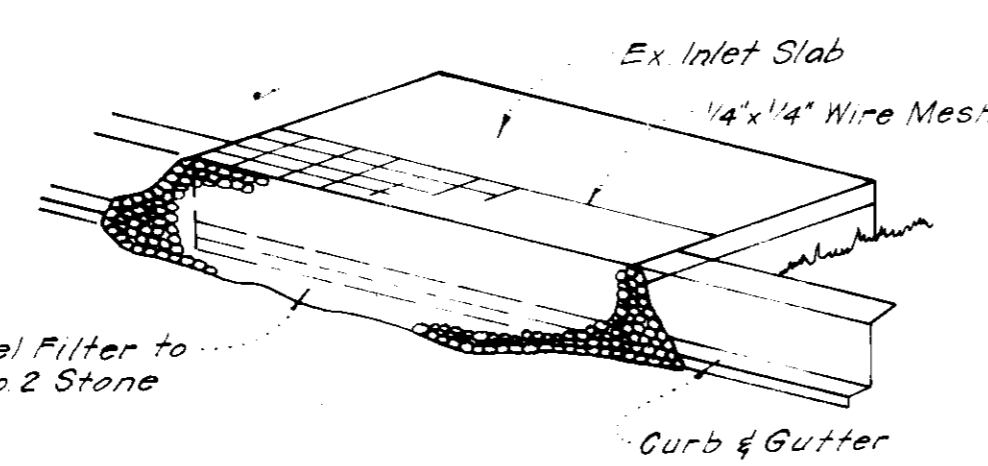
SILT FENCE DETAIL (SF)
NO SCALE



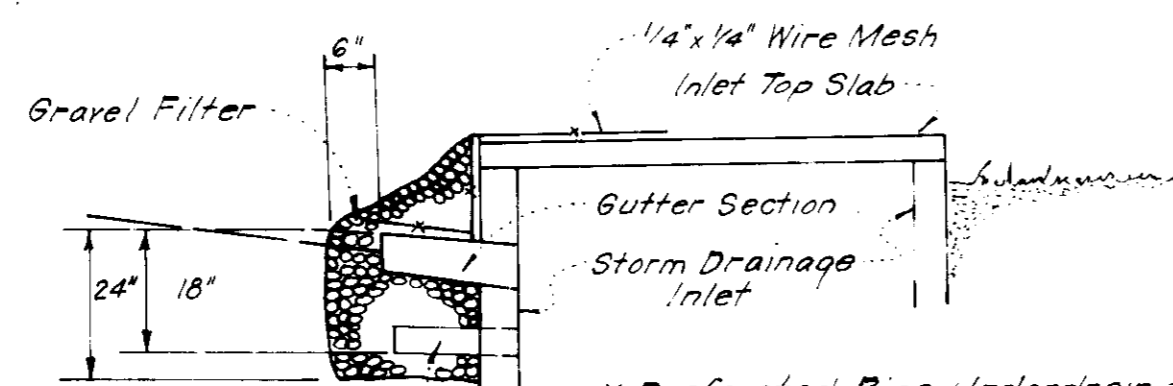
PERIMETER DIKE (P.D.)
NO SCALE



DIVERSION DIKE (D.D.)
NO SCALE

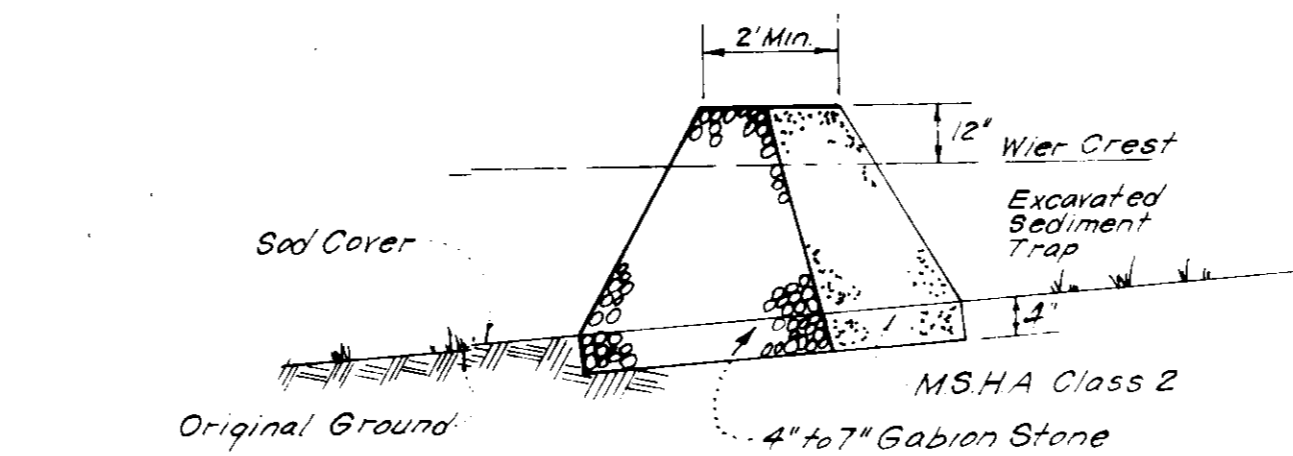


ISOMETRIC VIEW

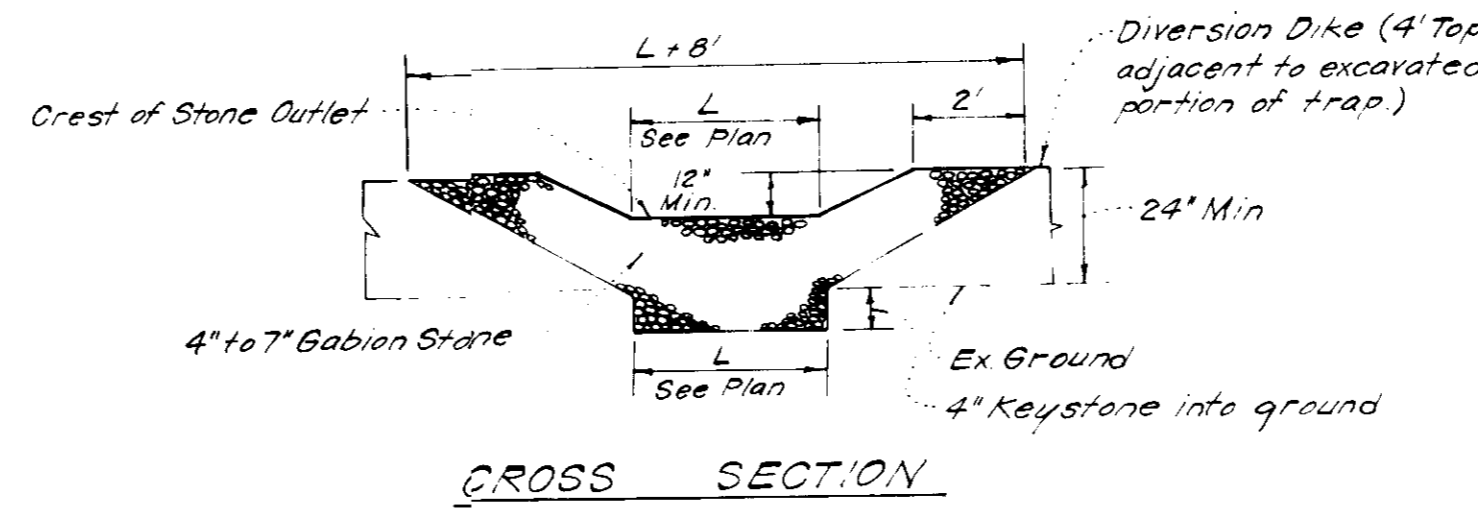


* Prefabricated Pipe Underdrain to be installed at time of inlet construction. Do not install prefabricated pipe and stone below ground if inlet and/or paving are constructed

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

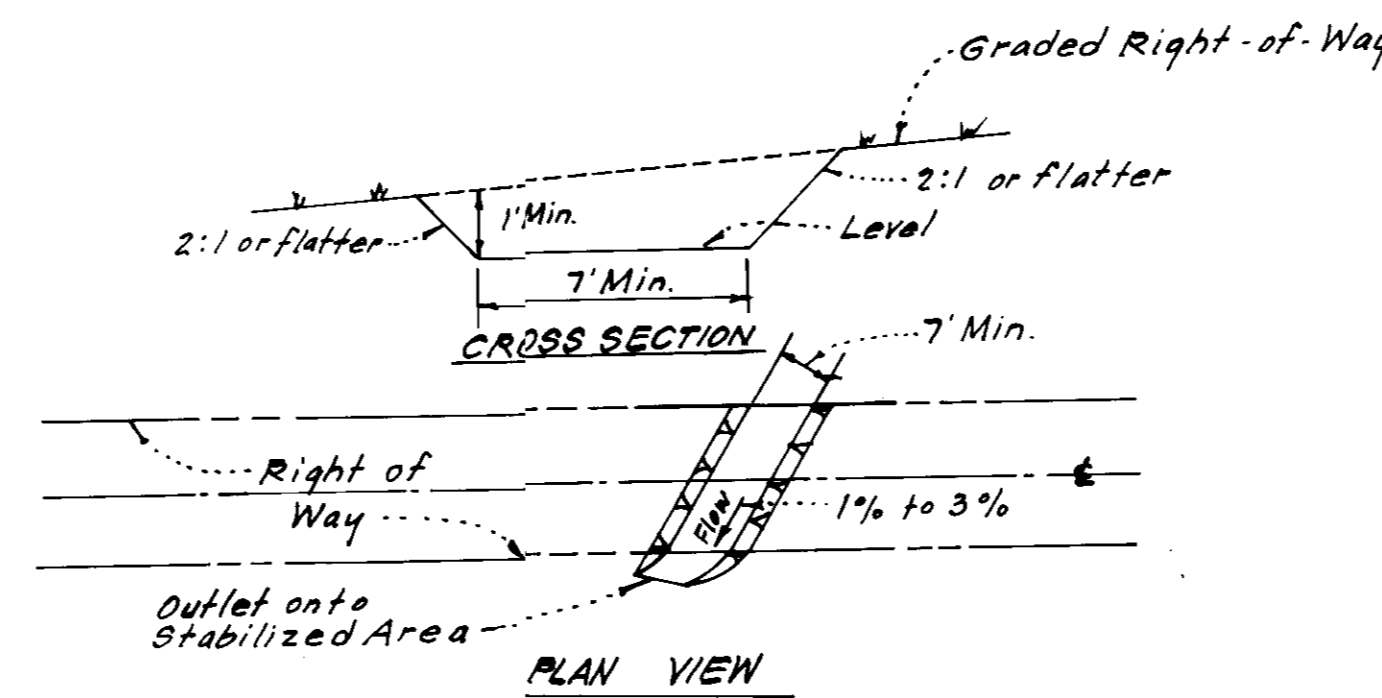


Note: For Dimensions not shown see plan

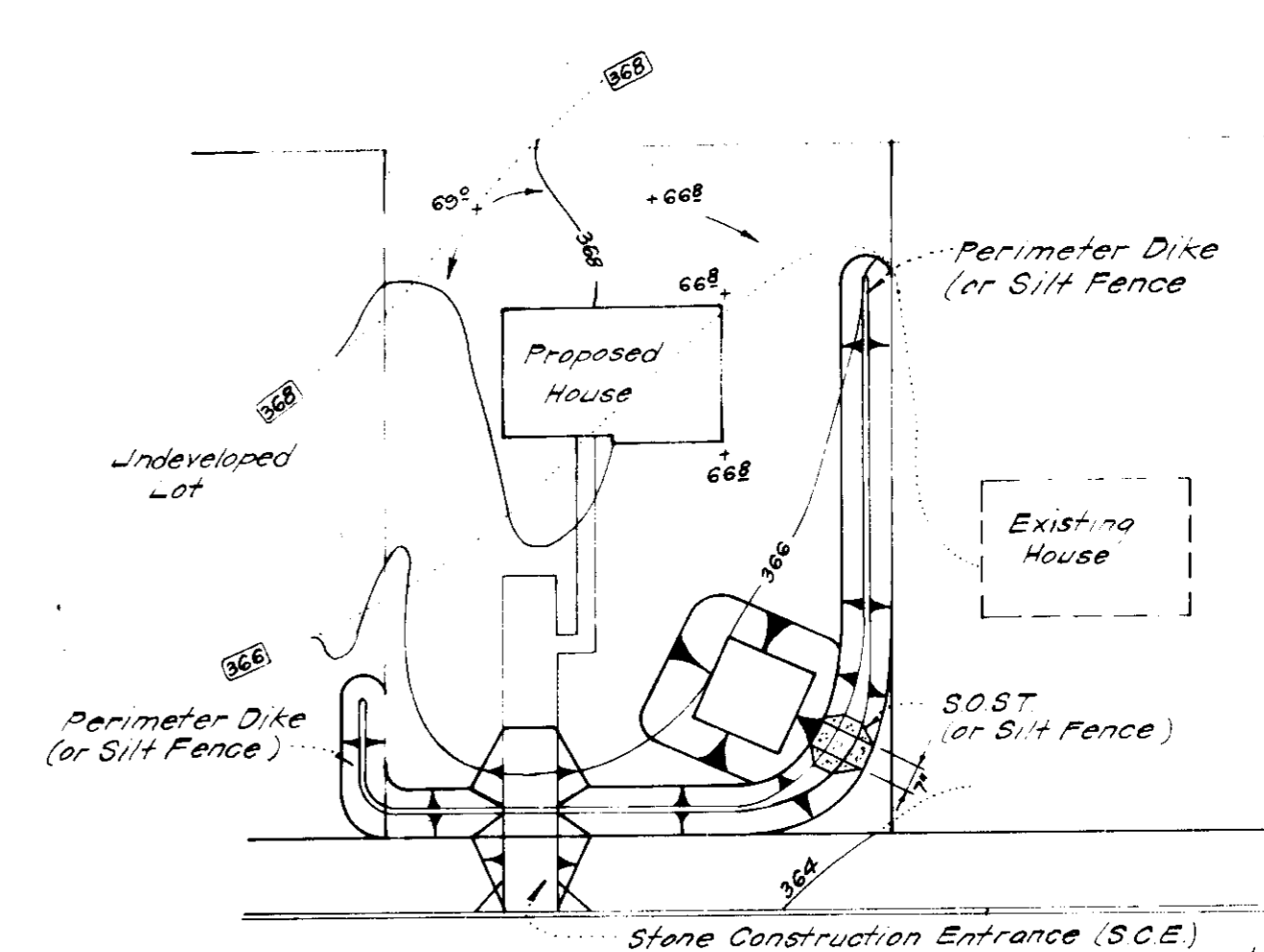


Notes:
1 Sediment Trap to be cleaned out when sediment reaches a level of 1ft below crest of stone outlet
2 Bottom of Sediment Trap to be level and constructed to the dimensions shown on plan
3 Stone Outlet to be constructed through diversion dike adjacent to excavated

DETAILS OF STONE FILTER OUTLET FOR STONE OUTLET SEDIMENT TRAP
NO SCALE



INTERCEPTOR SWALE
NO SCALE



SINGLE LOT SEDIMENT CONTROL PLAN
NO SCALE

SOST #			
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 2007 for det not shown
** Can be adjusted in field but bottom area must be as given or greater

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *[Signature]* DATE: 2-22-83
 APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR: *[Signature]* DATE: 2-24-83
 CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION: *[Signature]* DATE: 2-27-83
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *[Signature]* DATE: 2-26-83
 CHIEF BUREAU OF ENGINEERING: *[Signature]* DATE: 2-18-83

Reviewed for HOWARD S.C.D. Technical Requirements
 Technical Name: *[Signature]* DATE: 2/18/83
 DEVELOPMENT PLAN IS APPROVED
 HOWARD SOIL CONSERVATION DISTRICT
 Approved: *[Signature]* DATE: 2-1-83

DEVELOPER'S/BUILDER'S CERTIFICATE
 I hereby 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 School of Erosion and Sediment Control Approved Training Program for the District of Sediment and Erosion Control by the Howard Soil Conservation District. Their authorized agents are deemed necessary.
 Signature: *[Signature]* DATE: 11/10/82
 Thomas Lawrence

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. However, that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
 Signature: *[Signature]* DATE: 11-10-82
 G. Nelson Clark

CLARK • FINEFROCK & SACKETT
 ENGINEERS • PLANNERS • SURVEYORS
 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 301.593.1418
 DESIGNED: J.L.S. SCALE: As Shown
 DRAWN: K.I.W. DRAWING: 50F5
 CHECKED: J.L.S. JOB NO: 82-038
 DATE: 11-10-82 FILE NO: 82-038-SE
 SEDIMENT & EROSION CONTROL PLAN
 LOTS 85 THRU 89, 111 THRU 113, 106, 116 THRU 119, 258 THRU 261, 266, 268 & 269
 COLUMBIA VILLAGE OF KINGS CONTRANCE SECTION 2 AREA 3 ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 FOR: MULTE HOME CORPORATION 3602 G Geo Palmer Hwy Lanham, Md. 20706
 SDP-83-52.

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY MARYLAND
 DATE: 12-10-82
[Signature]