

VILLAGE OF KINGS CONTRIVANCE
SECTION 5 AREA 1
GREENBRIAR WOODS
PLAT 4345

VILLAGE OF KINGS CONTRIVANCE
SECTION 5 AREA 1
GREENBRIAR WOODS
PLATS 4348 & 4349

Lot No.	Address
115	8000 Copher Row
116	7936 Red Jacket Way
117	7932 "
118	7928 "
119	7924 "
120	7920 "
121	7916 "
122	7912 "
123	7908 "
124	7904 "
125	7897 Savage Guilford Road

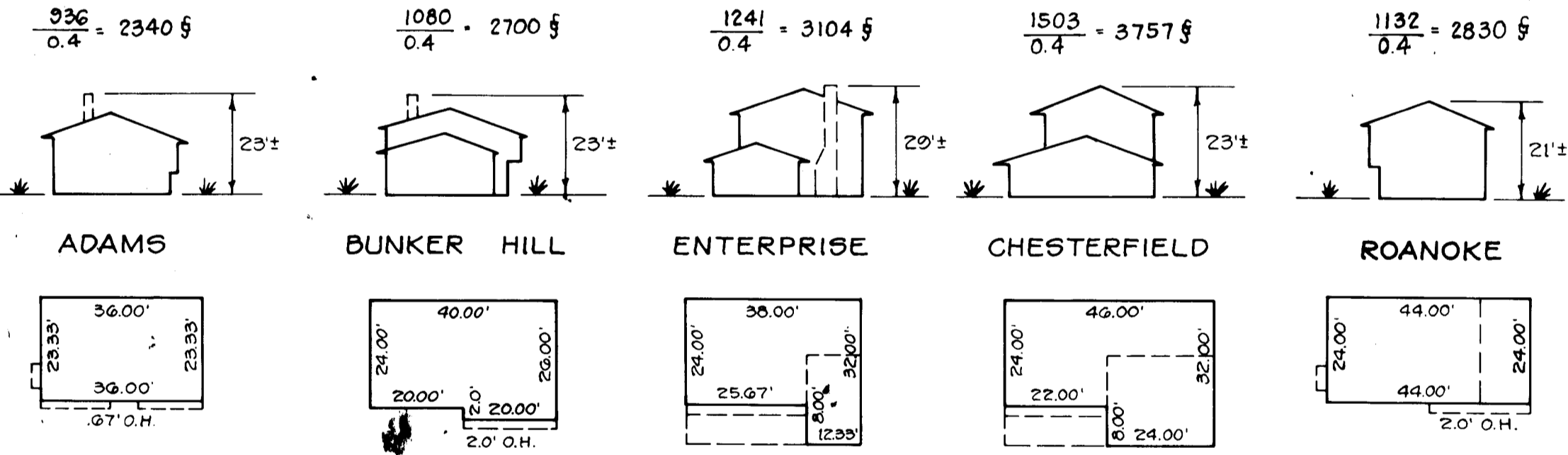
GENERAL NOTES

- The Land included in this plan is zoned: R.S.C.
- All coordinates are based on traverse controls for Columbia established by Maps, Inc. in 1968, by Purdum & Jeschke in 1968, which controls were tied to Maryland Bureau of Control Survey monuments and to U.S. Coast & Geodetic Survey monuments in the Columbia area.
- The area included in this submission is located on Tax Map #42.
- The total area included on this plan is 1.024 acres.
- All roadways are Public and Existing.
- Any damage to county owned rights of way shall be corrected at the developer's expense.
- Number of Lots: 11
- 40% Maximum Building Coverage for each lot is not exceeded by shown house types.

LEGEND

- Contour Interval 2 Ft.
- Existing Contour 310
- Proposed Contour 310
- Spot Elevation + 102
- Direction of Drainage
- Ex. Trees to be retained

Subdivision Name	GREENBRIAR WOODS	Sect./Area	5/1	Lots	115 - 125
Plat	4348, 4349	Block #	23	Zone	R.S.C.
Water Code	E14	Tax/Zone M/Elec Dist	47	6th	0004
		Sewer Code			5091500

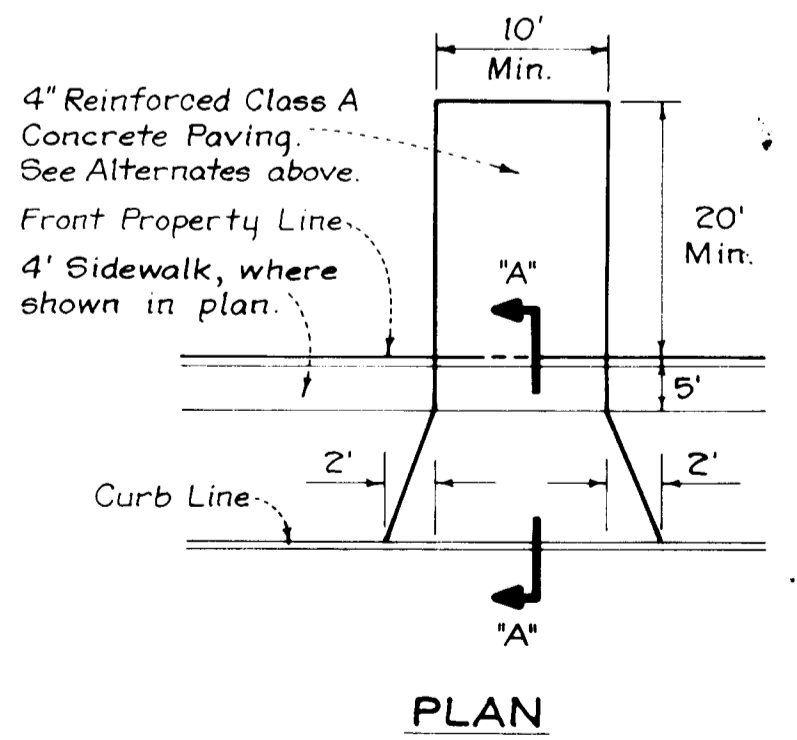


TYPICAL HOUSES

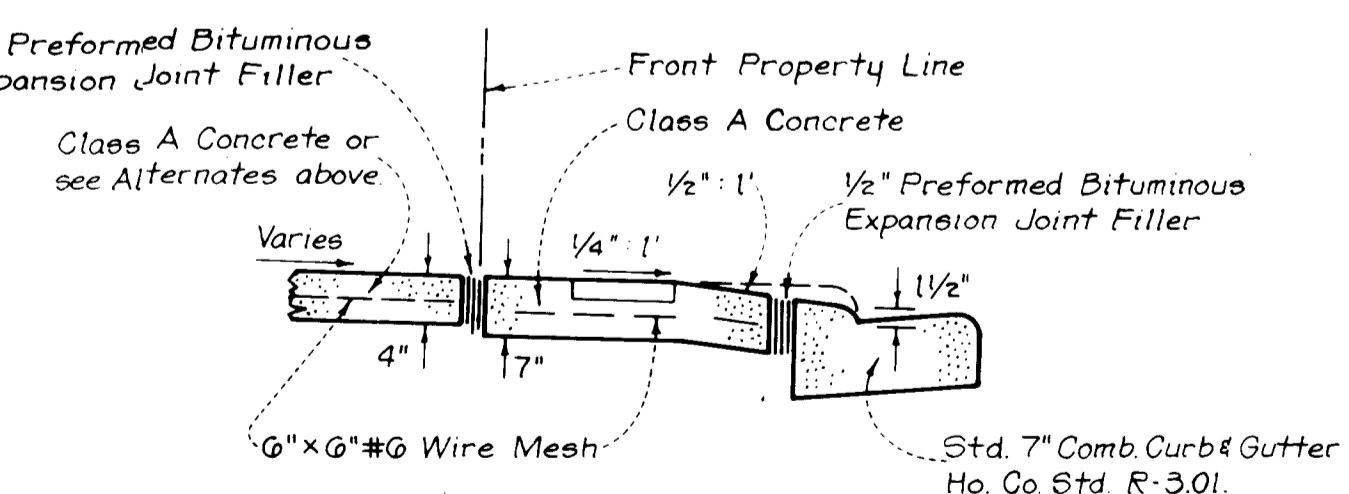
No Scale

- Alternate #1: 1" Bit Conc. Surface, 2" Bit Conc. Base, 6" Gravel
- Alternate #2: 1" Bit Conc. Surface, 4" Bit Conc. Base, 3" Gravel
- Alternate #3: 1" Bit Conc. Surface, 3" Bit Conc. Base, 3" Gravel

Note: Materials and Construction shall be done in accordance with Ho. Co. Road Construction Code.



PLAN



SECTION "A-A"

DRIVEWAY ABUTTING STD. 7" COMB. CURB & GUTTER

No Scale

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 6-7-84

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR
DATE: 6-8-84

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 6-4-84

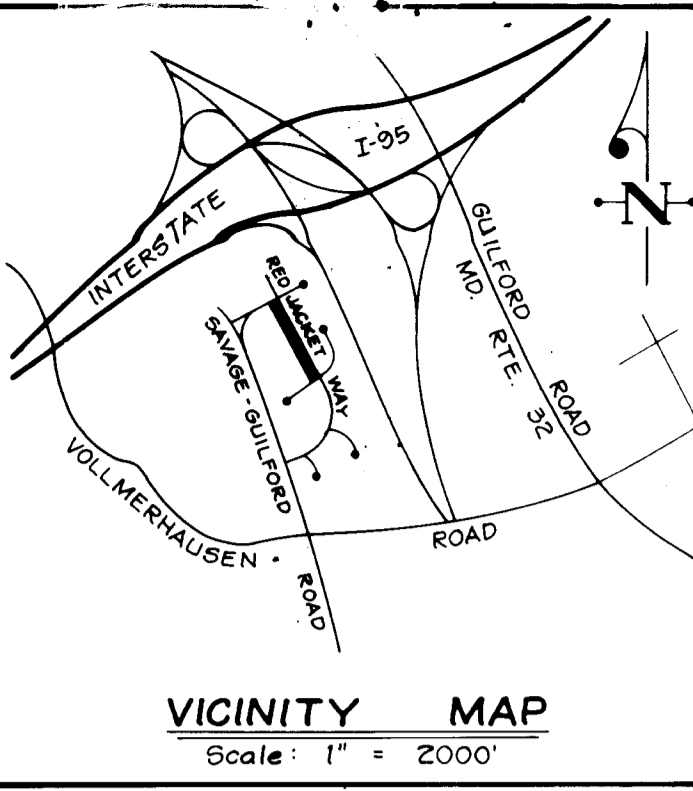
APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 5-22-84

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

DESIGNED	J.M.E.	SITE DEVELOPMENT PLAN	SCALE	1" = 30'
DRAWN	L.A.I.	LOTS 115 THRU 125	DRAWING	1 of 3
CHECKED	J.M.E.	VILLAGE OF KINGS CONTRIVANCE	JOB NO.	79-093
DATE	3-14-84	SECTION 5 AREA 1	FILE NO.	79-093X

FOR: The Ryland Group (Columbia Division)
One Knoll North Drive, Suite 503
Columbia, Maryland 21045

SDP-84-236



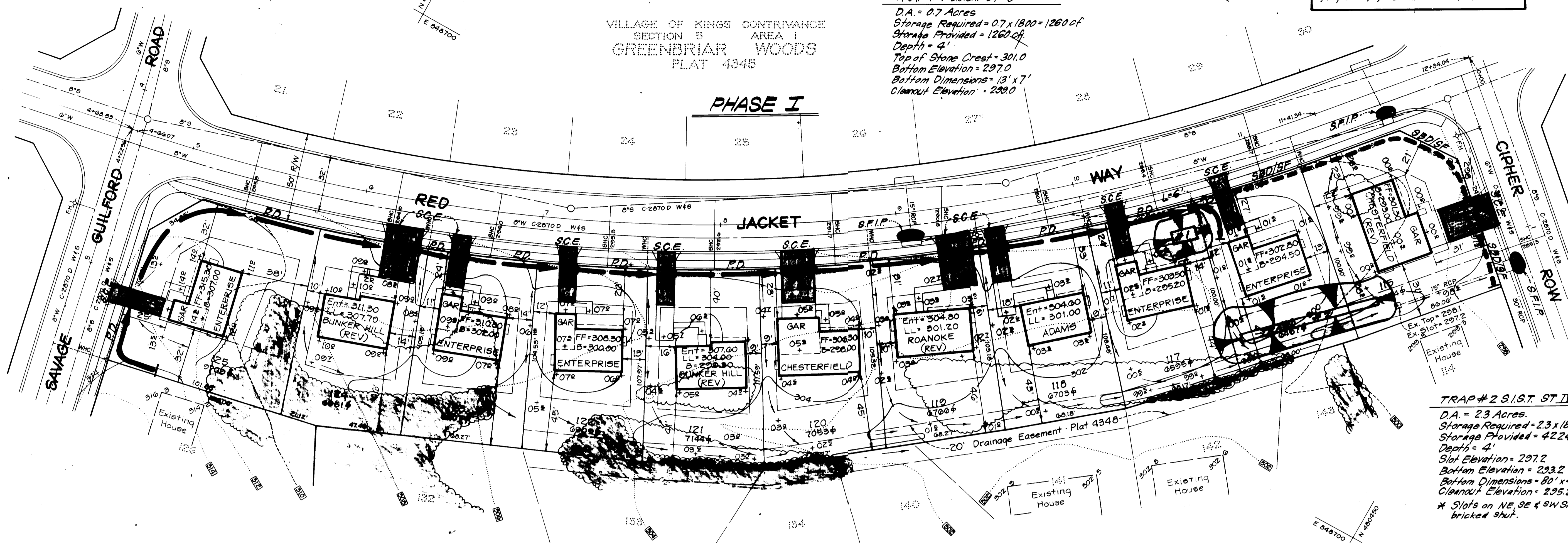
NOTE: Houses on Lots 115, 116 & 117, are not to be constructed until traps #1 & #2 are removed.

TRAP #1 S.O.S.T. ST-3
 D.A. = 0.7 Acres
 Storage Required = 0.7 x 1800 = 1260 CF
 Storage Provided = 1260 CF
 Depth = 4'
 Top of Stone Crest = 301.0
 Bottom Elevation = 297.0
 Bottom Dimensions = 13' x 7'
 Cleanout Elevation = 299.0

TRAP #2 S.I.S.T. ST-IV *
 D.A. = 2.3 Acres
 Storage Required = 2.3 x 1800 = 4140 CF
 Storage Provided = 4224 CF
 Depth = 4'
 Slot Elevation = 297.2
 Bottom Elevation = 293.2
 Bottom Dimensions = 80' x 4'
 Cleanout Elevation = 295.2
 * Slots on NE, SE & SW Sides to be bricked shut.

VILLAGE OF KINGS CONTRIVANCE
 SECTION 5 AREA 1
 GREENBRIAR WOODS
 PLAT 4348

PHASE I



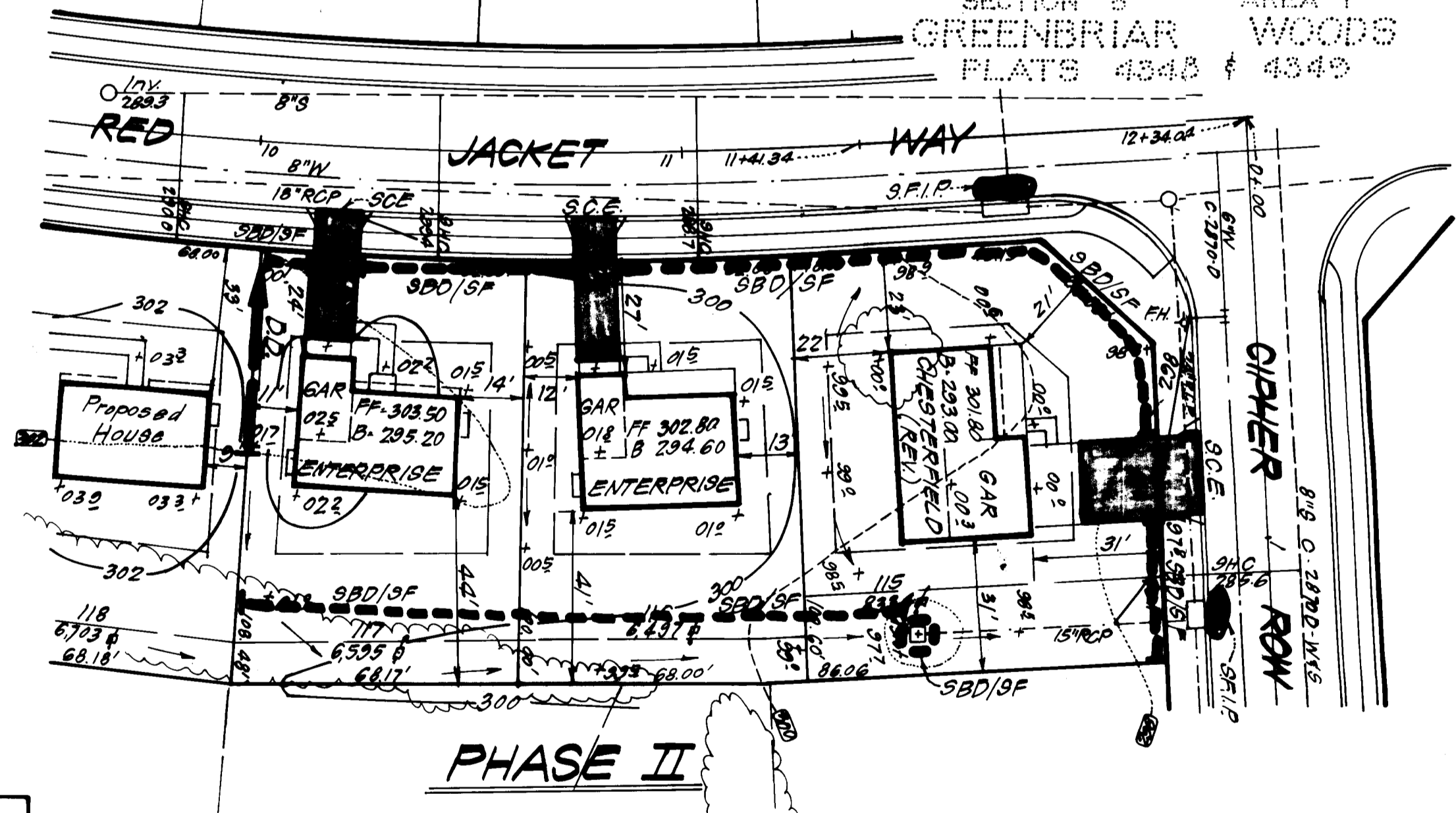
VILLAGE OF KINGS CONTRIVANCE
 SECTION 5 AREA 1
 GREENBRIAR WOODS
 PLATS 4348 & 4349

LEGEND:

1. Contour Interval 2 Ft.
2. Existing Contour ---
3. Proposed Contour - - -
4. Spot Elevation + 11'
5. Direction of Drainage →
6. Ex. Trees to be retained
7. Perimeter Dike PD →
8. Straw Bale Dike/Silt Fence SBD/SF →
9. Stone Construction Entrance SCE
10. Stone Filter Inlet Protection S.F.I.P.
11. Diversion Dike D.D. →
12. Interceptor Swale I.S. →

GENERAL NOTES

1. The Land included in this plan is zoned: R.S.C.
2. All coordinates are based on traverse controls for Columbia established by Maps, Inc., in 1968, by Purdum & Jeschke in 1968, which controls were tied to Maryland Bureau of Control Survey monuments and to U.S. Coast & Geodetic Survey monuments in the Columbia area.
3. The area included in this submission is located on Tax Map #42.
4. The total area included on this plan is 1.824 acres.
5. All roadways are Public and Existing.
6. Any damage to county owned rights of way shall be corrected at the developer's expense.
7. Number of Lots: 11
8. 40% Maximum Building Coverage for each lot is not exceeded by shown house types.



PHASE II

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
 [Signature] 6-7-84
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 [Signature] 6-8-84
 PLANNING DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 6-4-84
 DIRECTOR DATE

CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMIN.
 [Signature] 6-4-84
 CHIEF BUREAU OF ENGINEERING DATE

APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 5-22-84

Reviewed for [Signature] S.D.
 and meets Technical Requirements
 [Signature] 5-22-84
 U.S. Soil Conservation Service

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

[Signature] 5-30-84
 Date

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 Erosion and Sediment before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as set forth herein."
 [Signature] 3-29-84
 Signature of Developer/Builder Date
 MAURICE M. SIMPKINS

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] 3-29-84
 Date
 G. Nelson Clark

Subdivision Name	GREENBRIAR WOODS	Sect./Area	5/1	Lots	115 - 125
Plat	4348, 4349	Block #	23	Zone	R.S.C.
Water Code	E14	Tax/Zone M/Elec. Dist.	47	Census Tr.	6004
		Sewer Code			5091500

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

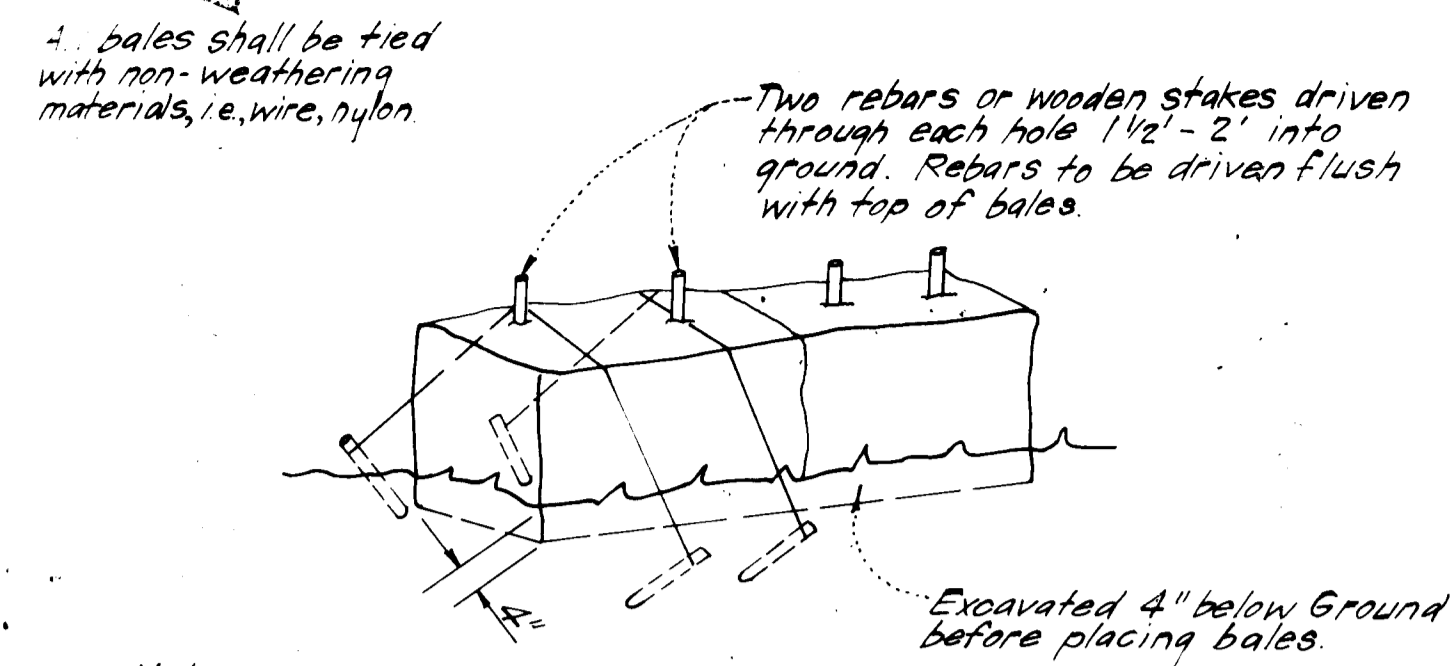
DESIGNED J.L.S.
 DRAWN L.A.I.
 CHECKED J.L.S.
 DATE 3-29-84

SCALE 1" = 30'
 DRAWING 2 OF 3
 JOB NO. 79-093
 FILE NO. 79-0936

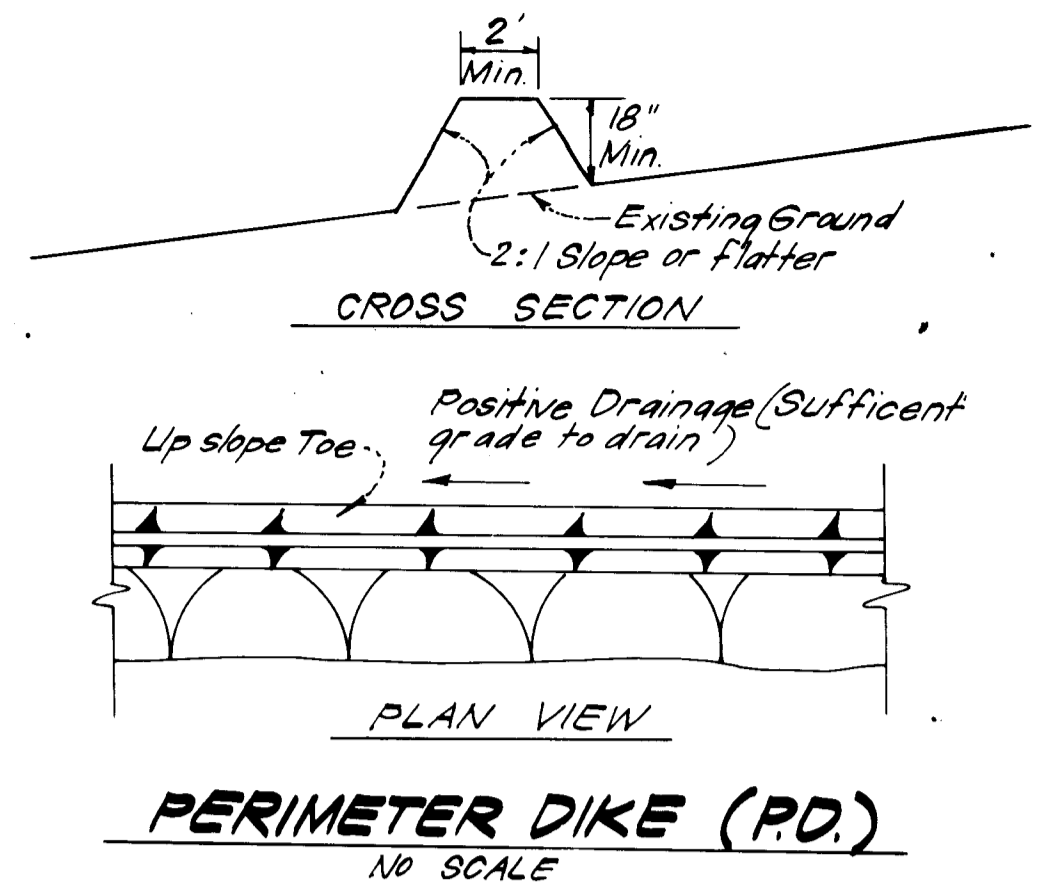
FOR: The Ryland Group (Columbia Division)
 One Knoll North Drive, Suite 503
 Columbia, Maryland 21045

GENERAL NOTES

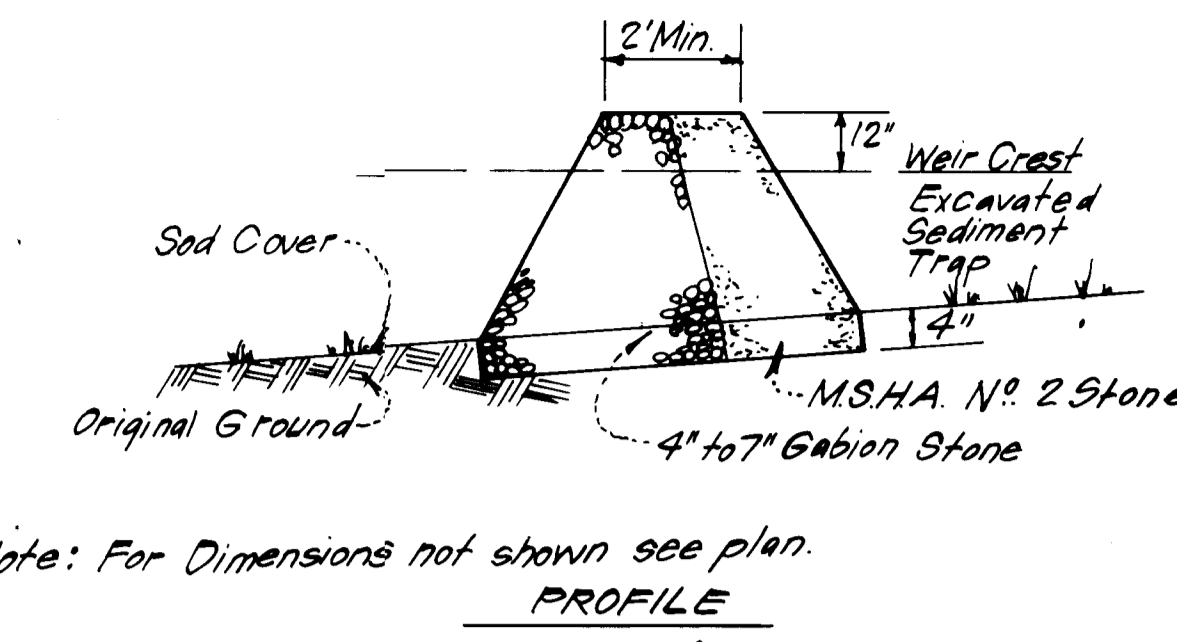
- Grading Permits shall be obtained prior to installation of Sediment Control & Grading.
- All Sediment and Erosion Control Measures will be installed and stabilized according to this plan prior to any other grading, clearing or disturbance of the existing surface of the site. See note #6 for stabilization except that the seed mixture will be annual rye applied at a rate of 1.4 lbs./1000 s.f.
- 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 s.f. 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 s.f. Ground Agricultural Lime or Dolomitic Lime applied at a rate of 30 lbs./1000 s.f.
 - Mulch - Weed free grain straw applied at a rate of 70-90 lbs./1000 s.f. 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 = 414 LF
- SITE ANALYSIS:
 - Total Area: 1.824 Acres
 - Area to be Roofed: 0.282 Acres
 - Area to be Paved: 0.125 Acres
 - Area to be Seeded: 1.259 Acres
 - Area Undisturbed: 0.160 Acres
- CONSTRUCTION SEQUENCE:
 - PHASE I
 - Install Sediment & Erosion Control Devices and Stabilize Perimeter Dike.
 - Excavate for Foundations and Rough Grade.
 - Construct Structures, Driveways and Sidewalks.
 - Final Grade and Stabilize in accordance with note #6.
 - PHASE II
 - Remove Ex. Traps #1 & #2 and remove Ex. Perimeter Dike in front of lot 117 after lots 118 thru 125 have been stabilized.
 - Install Sediment & Erosion Control Devices.
 - Excavate 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-Bid" basis at random, Single Lot Sediment Control, as shown on this sheet, shall be implemented.



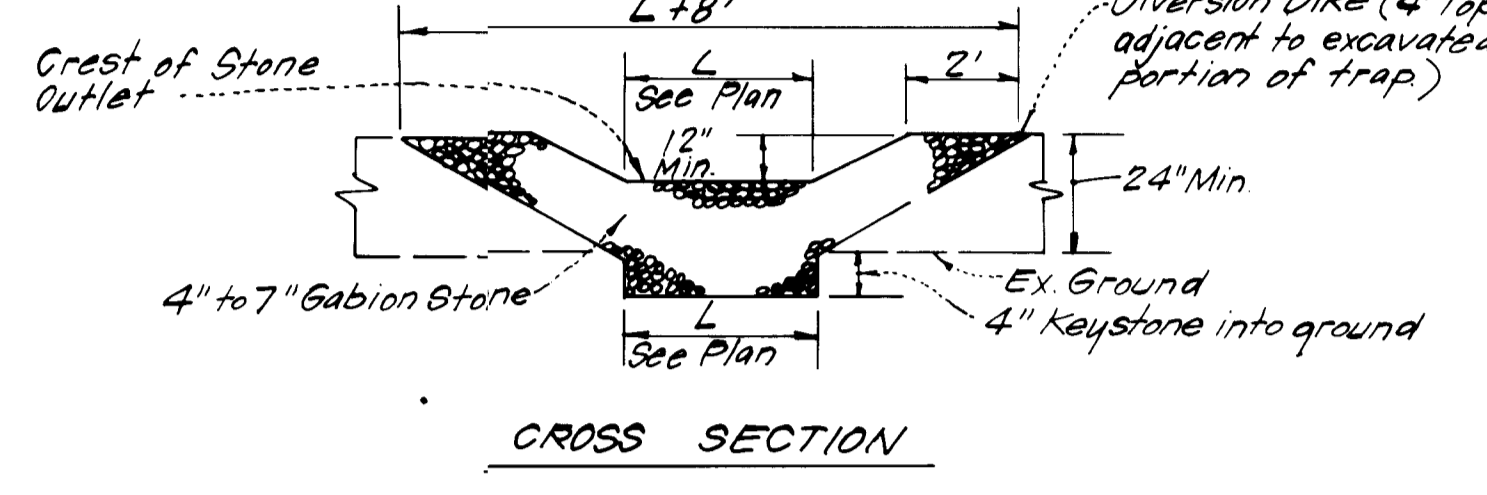
STRAW BALE DIKE DETAIL (S.B.D.)
NO SCALE



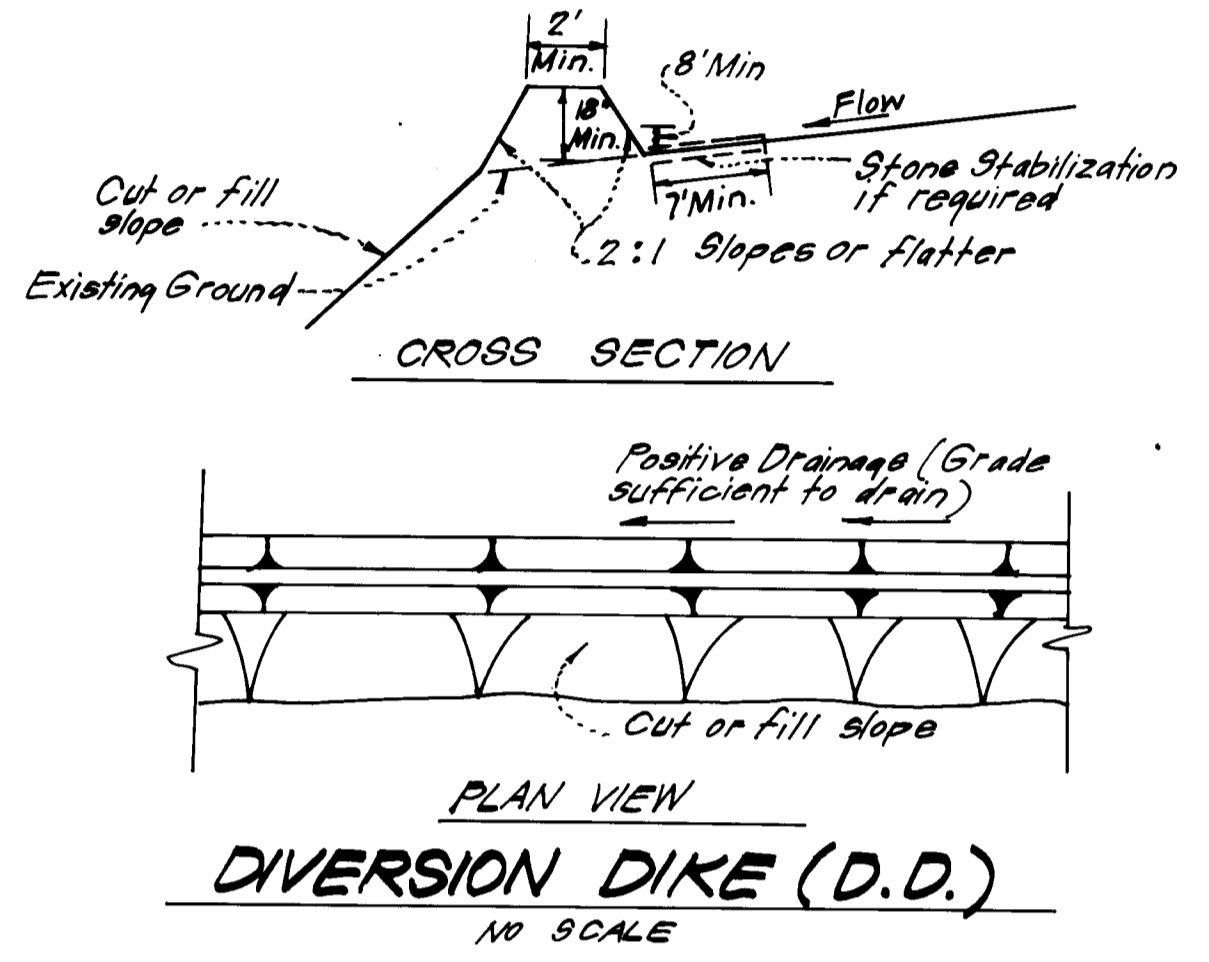
PERIMETER DIKE (P.D.)
NO SCALE



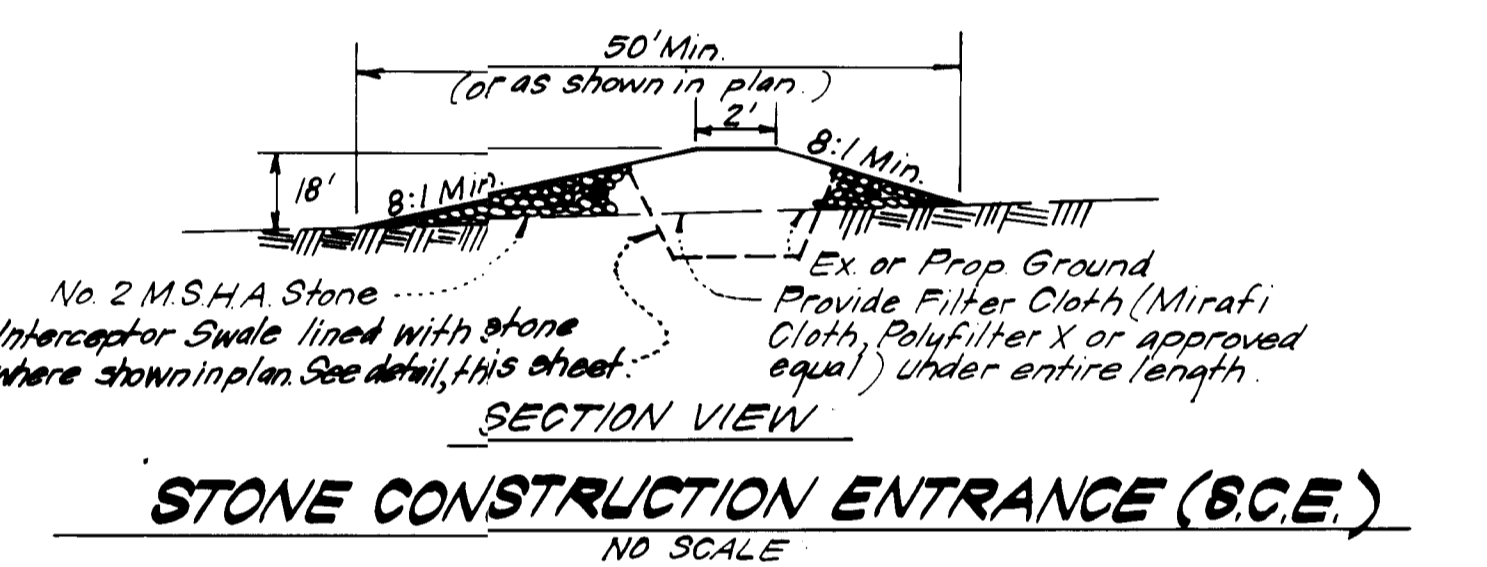
DETAILS OF STONE FILTER OUTLET FOR STONE OUTLET SEDIMENT TRAP (S.O.S.T.)
NO SCALE



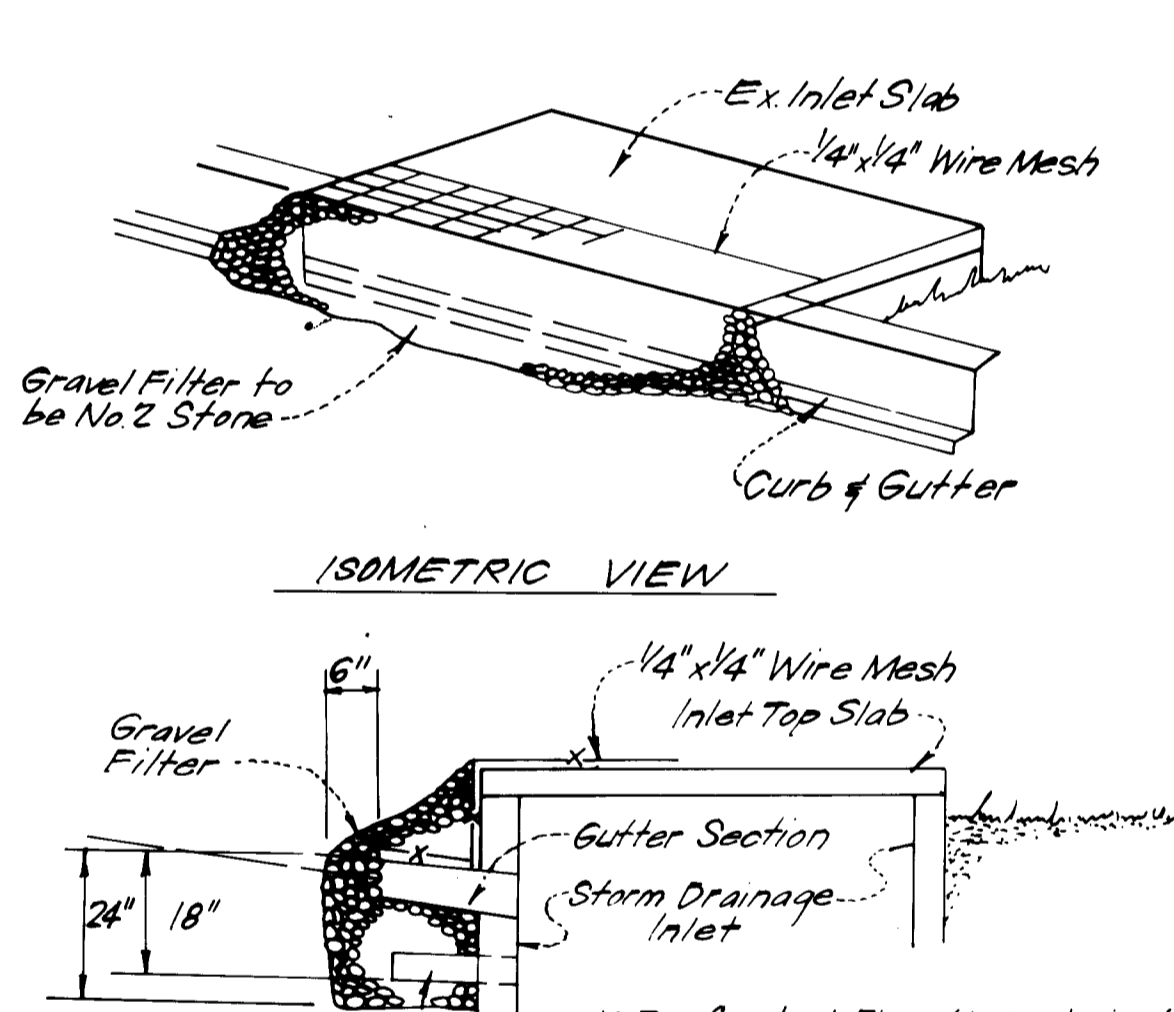
DETAILS OF STONE FILTER OUTLET FOR STONE OUTLET SEDIMENT TRAP (S.O.S.T.)
NO SCALE



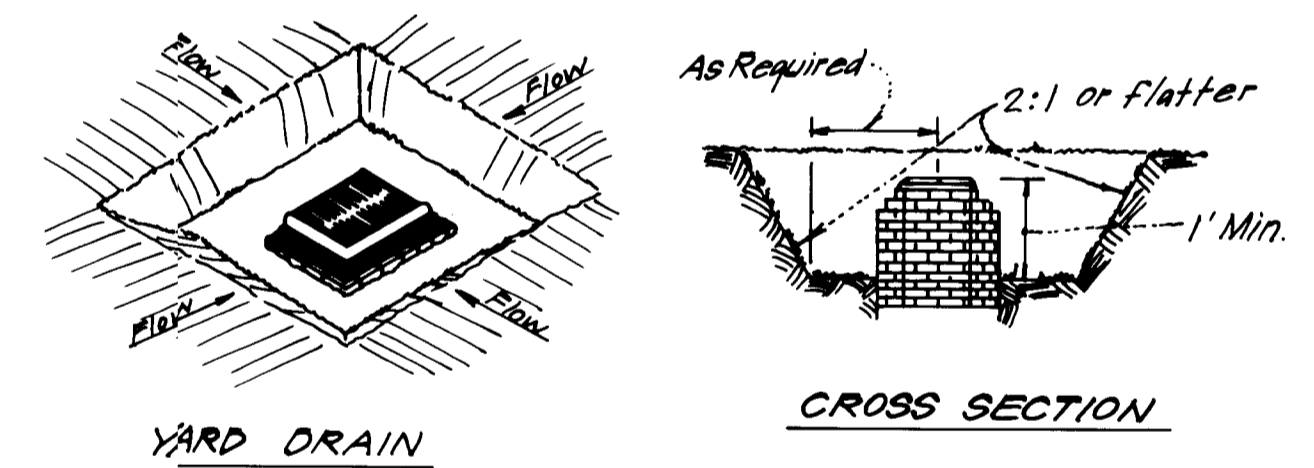
DIVERSION DIKE (D.D.)
NO SCALE



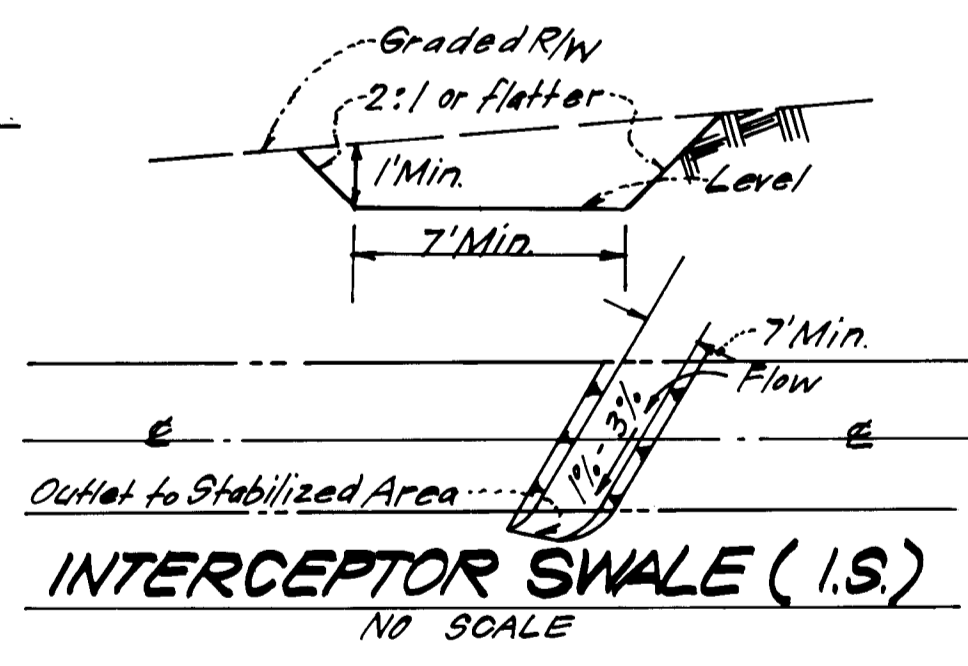
STONE CONSTRUCTION ENTRANCE (S.C.E.)
NO SCALE



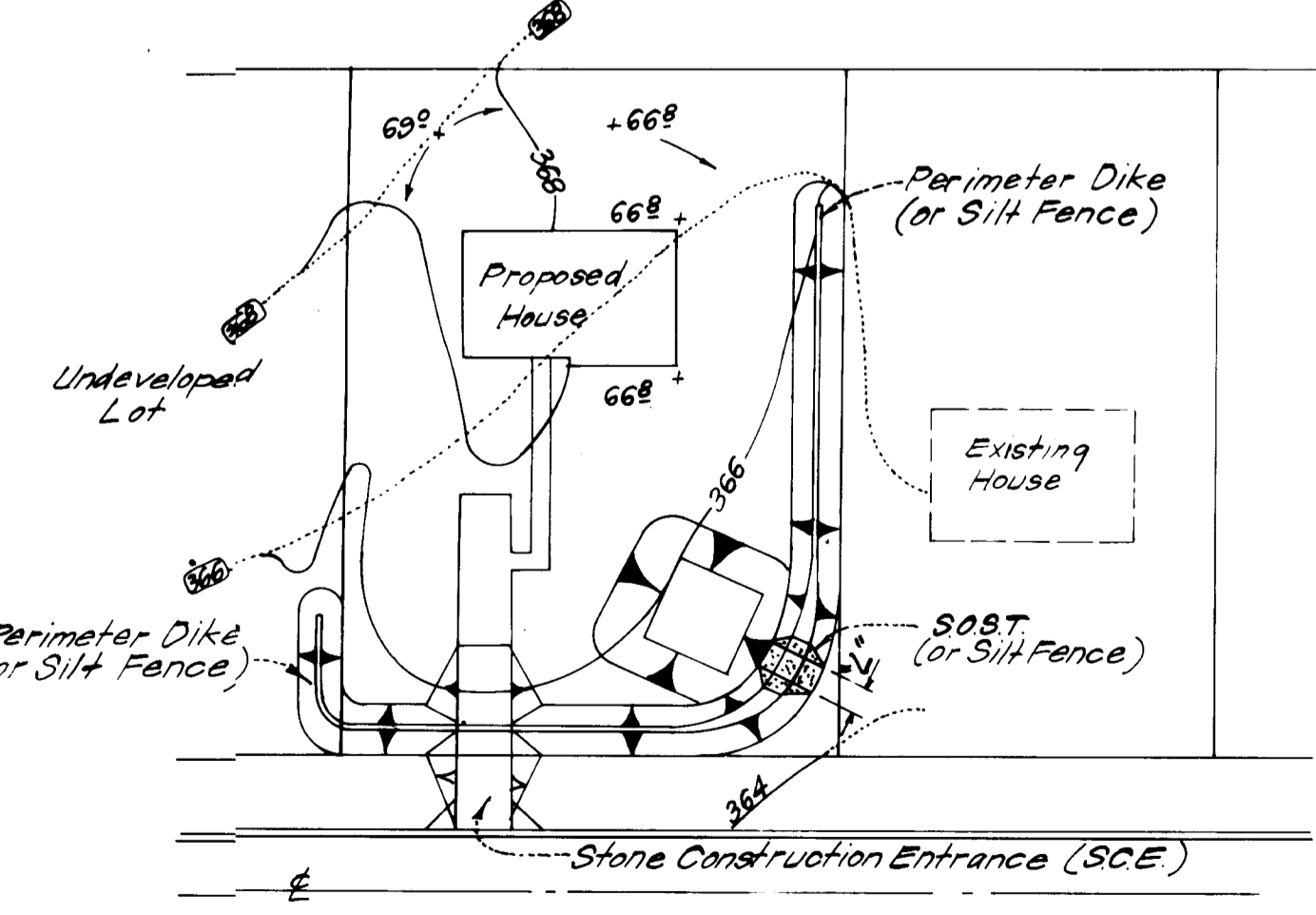
STONE FILTER INLET PROTECTION (S.F.I.P.)
NO SCALE



STORM INLET SEDIMENT TRAP (S.I.S.T.)
NO SCALE



INTERCEPTOR SWALE (I.S.)
NO SCALE



SINGLE LOT SEDIMENT CONTROL PLAN
NO SCALE

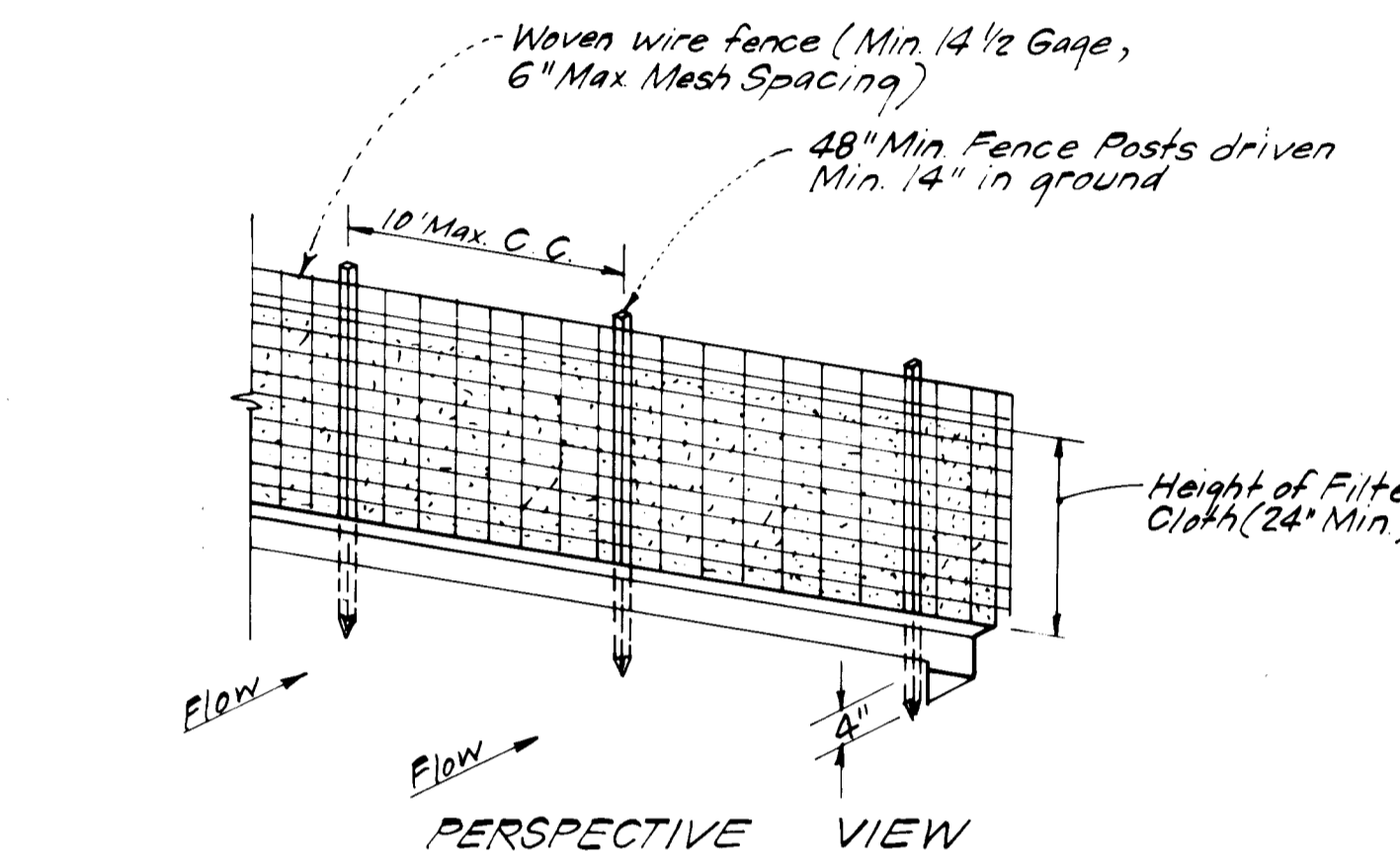
S.O.S.T. *			
Lot Size	1/4 Ac.	1/2 Ac.	1 Ac.
L	2'	3'	6'
Depth	2'	2'	2'
Bot. Length **	11'	26'	26'
Bot. Width **	11'	11'	26'
Bot. Area	121 sq ft	286 sq ft	676 sq ft

* See S.H. ST-3, pg. 20 for detail not shown
** Can be adjusted in field but bottom area must be as given or greater.

DEVELOPER'S/BUILDER'S CERTIFICATE
"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 deemed necessary."

Maurice M. Sumpkins
Signature of Developer/Builder
3-29-84
Date

Note:
1. 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.)



SILT FENCE DETAIL (S.F.)
NO SCALE

CONSTRUCTION NOTES:
1. Woven wire fence to be fastened securely to fence posts with wire ties or staples.
2. Filter cloth to be fastened securely to woven wire fence with wire ties spaced every 24" at top and mid-section.
POSTS: Steel, either T or U type or 2" Hardwood.
FENCE: Woven wire, 1 1/2 Ga., Max. 6" Mesh Opening.
FILTER CLOTH: Filter X, Mirafil 100X, Laurel Erosion Control Cloth, Bidim, Polyfilter X or equal.

Reviewed for Howard S.D. and meets Technical Requirements
Signature: [Signature]
Date: 5-30-84
U.S. Soil Conservation Service

HIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Signature: [Signature]
Date: 5-30-84

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
Signature: [Signature]
Date: 6-7-84
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
Signature: [Signature]
Date: 6-8-84
PLANNING DIRECTOR

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
Signature: [Signature]
Date: 6-8-84

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Signature: [Signature]
Date: 6-4-84
DIRECTOR

CHIEF BUREAU OF ENGINEERING
Signature: [Signature]
Date: 6-4-84

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 5-22-84



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.

G. Nelson Clark
3-27-84
Date

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

DESIGNED	J.L.S.	SEDIMENT & EROSION CONTROL PLAN LOTS 115 THRU 125	SCALE	As Shown
DRAWN	V.L.B.	GREENBRIAR WOODS VILLAGE OF KINGS CONTRIVANCE	DRAWING	3 OF 3
CHECKED	J.L.S.	SECTION 5 AREA 1 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO.	79-093
DATE	3-29-84	FOR: THE RYLAND GROUP (Columbia Division) One Knoll North Drive, Suite 503 Columbia, Maryland 21045	FILE NO.	79-093SE

SDP-84-236