

GENERAL NOTES

- 1 Subject property zoned NT per Comprehensive Zoning Plan Dated 8/2/85
- 2 The coordinates shown hereon are based on the Maryland State Grid System and derived from the following Howard County Control Stations 2544002 and 2544008
- 3 All roads are public and existing
- 4 Any damage to county owned right-of-ways to be corrected at the Developers expense
- 5 Total area included 842,525 sq ft or 19.9417 Acres
- 6 Total number of lots 82
- 7 Reference Final Development Plan Section 2 Phase 196, Section 4 Phase 197 Part 1
- 8 Maximum lot coverage is 30%
- 9 The contractor or Developer shall contact the Construction Inspection Survey Division, 24 hours in advance of commencement of work at 792-2630
- 10 Existing topography taken from fieldrun topography dated January 4, 1988

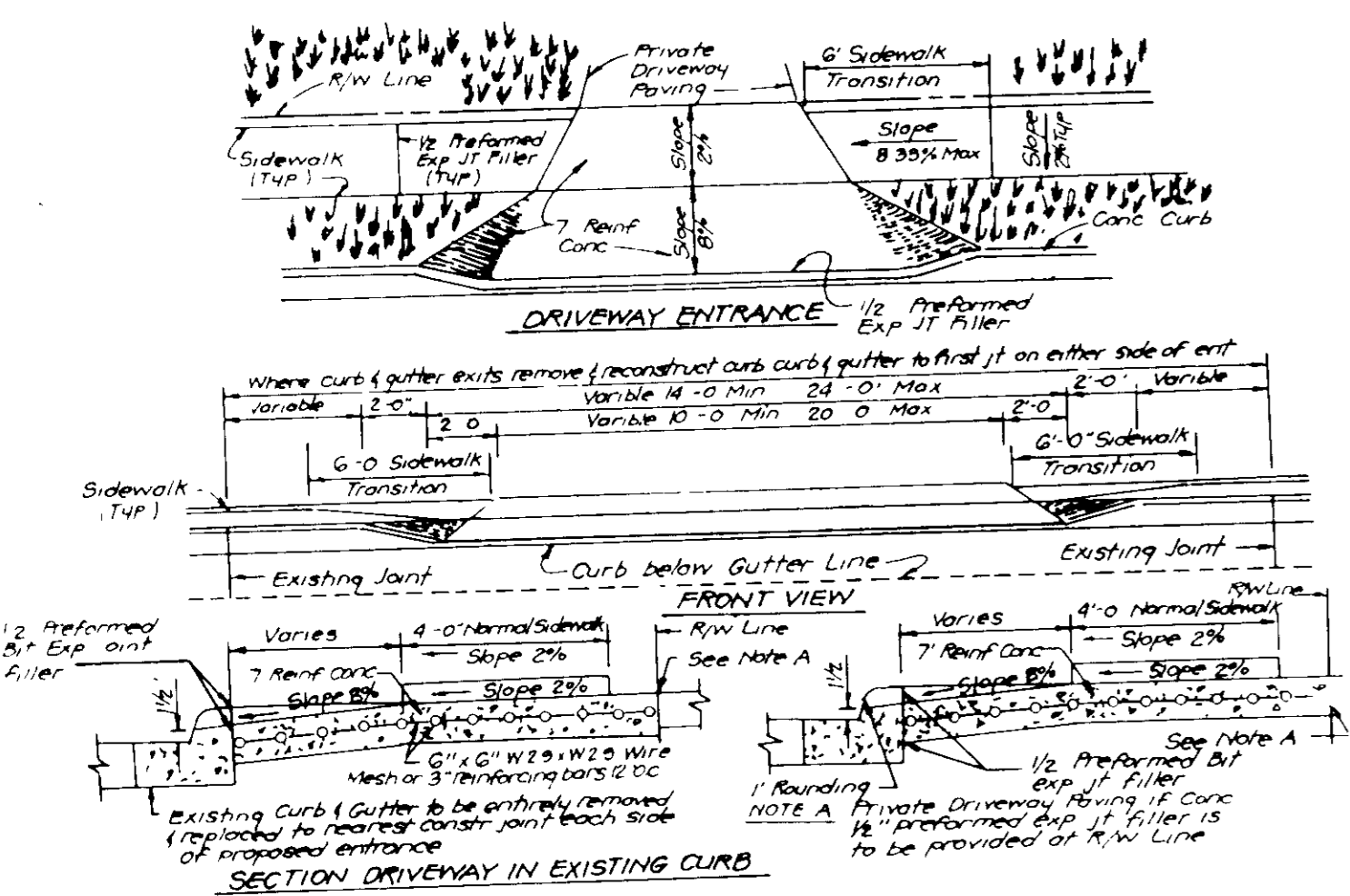
SPECIAL NOTES

- 1 Approved Road Construction Plans shall be used for all public utilities
- 2 The water & sewer house connections not included in a Developers Agreement shall conform to Howard County Plumbing Code. The on-site WHC shall be 1" copper and the SHC shall be 4" iron.
- 3 Stormwater Management provided in the Village of Long Reach, F 88-76 & F 88-78
- 4 Public water & sewer shown for reference only. For more detailed information - See Water and Sewer plans Contract No. 24-1378-D & 24-1664-D

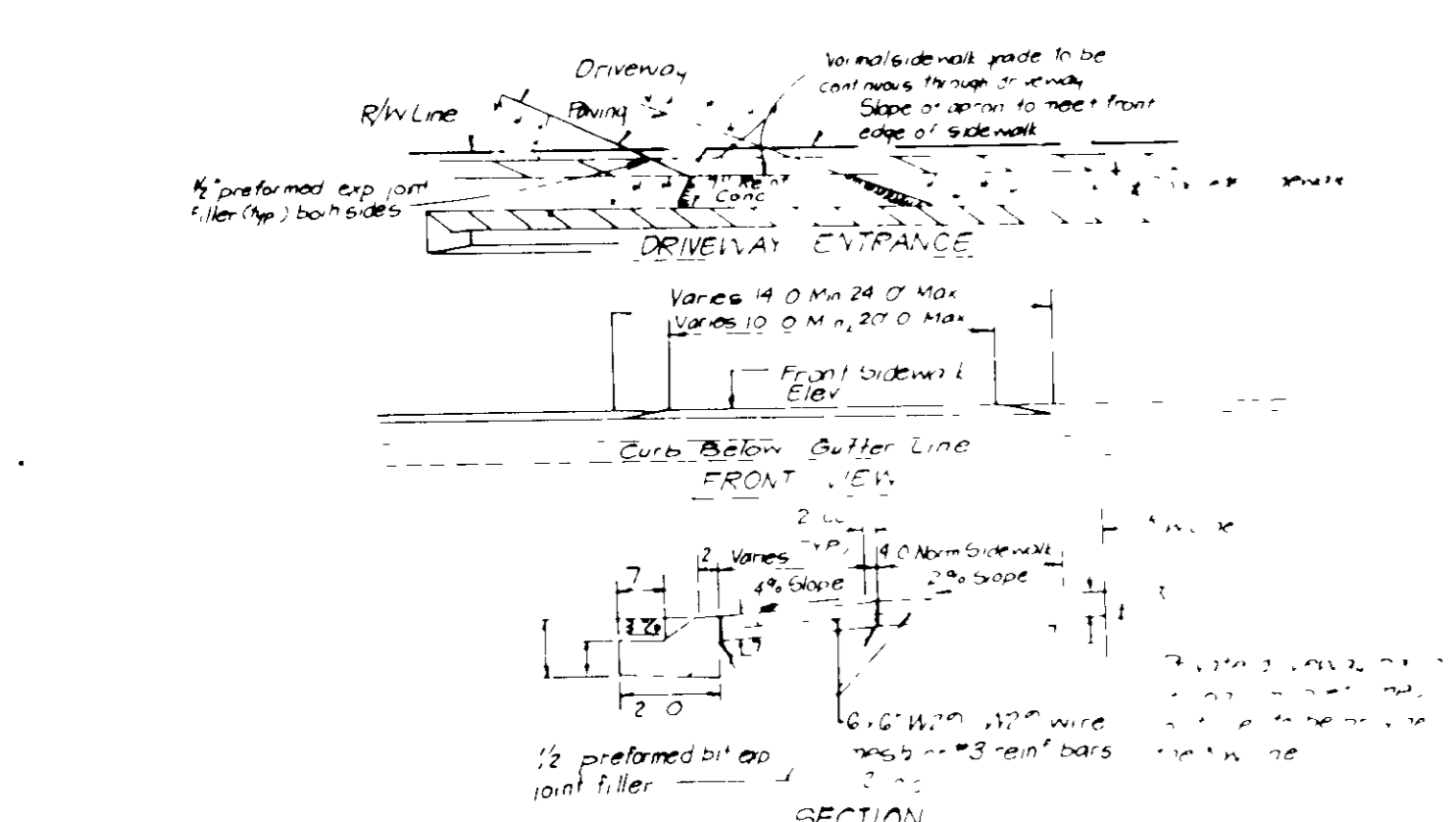
VICINITY MAP
Scale 1" = 2000'

LEGEND

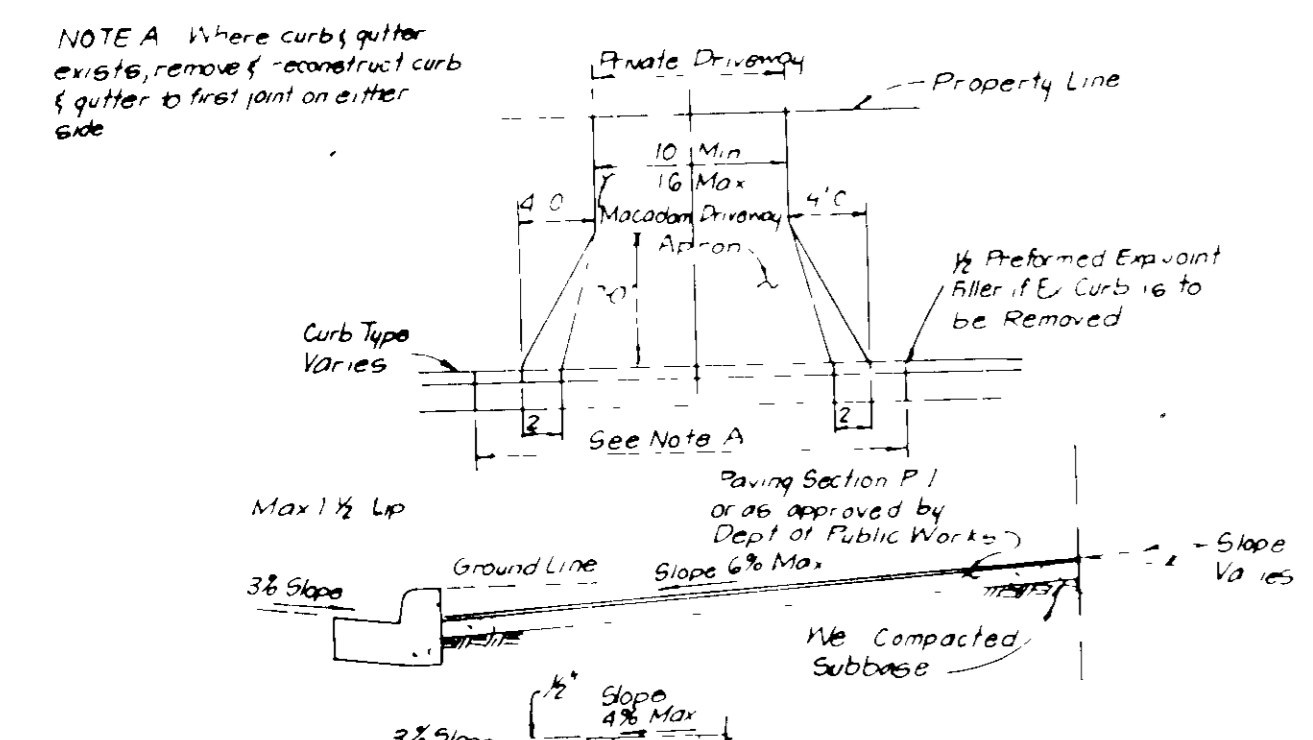
- Contour Interval 2 FT
- Existing Contour - - - - -
- Proposed Contour - - - - -
- Spot Elevation 410
- Direction of Drainage +105
- Walk out Basement
- Trees to be Saved
- Existing Trees



DRIVEWAY ABUTTING CLOSED SECTION WITH STD 7" COMB CURB & GUTTER & SIDEWALK SET BACK FROM CURB



DRIVEWAY ABUTTING CLOSED SECTION WITH MODIFIED COMB CURB & GUTTER & SIDEWALK



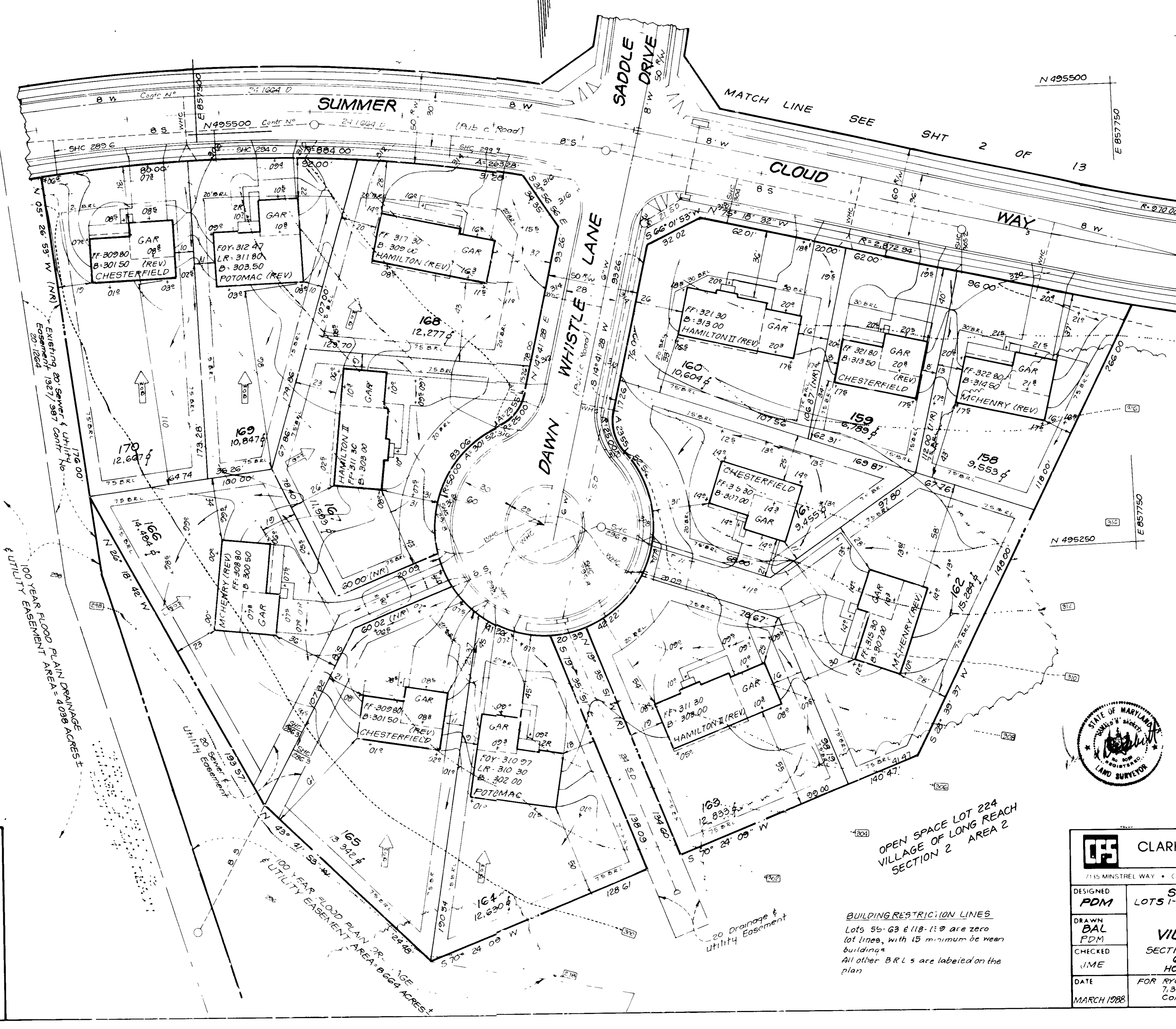
DRIVEWAY ABUTTING CLOSED SECTION WITHOUT CONCRETE SIDEWALK

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 9-30-88

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE: 10-10-88

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 10-6-88

DATE: 5-11-88
LKS



ADDRESS CHART

LOT NO	STREET ADDRESS
158	G407 SUMMER CLOUD WAY
159	G411
160	G415
161	G423
162	G421
163	G435
164	G409 DAWN WHISTLE LANE
165	G413
166	G416
167	G412
	G408
	G404

Subdivision Name	LONG REACH	Sheet (Area)	211, 212, 213, 214	Lot's 1-5, 88-91	26, 105, 118, 142, 149, 170, 197, 221
Plot No.	7805-7806	Block No.	7115-14	Tax Map No.	97
Water Code (E.O.G.)		Sewer Code	3490000 & 3460030	Eng. Dist. Census	71



CLARK • FINEFROCK & SACKETT, INC
ENGINEERS • PLANNERS • SURVEYORS
7115 MINISTREL WAY • COLUMBIA MD 21045 • (301) 381-2000

SITE DEVELOPMENT PLAN
LOTS 1-5, 55-64, 96-106, 118-142, 149-170 AND 197-221

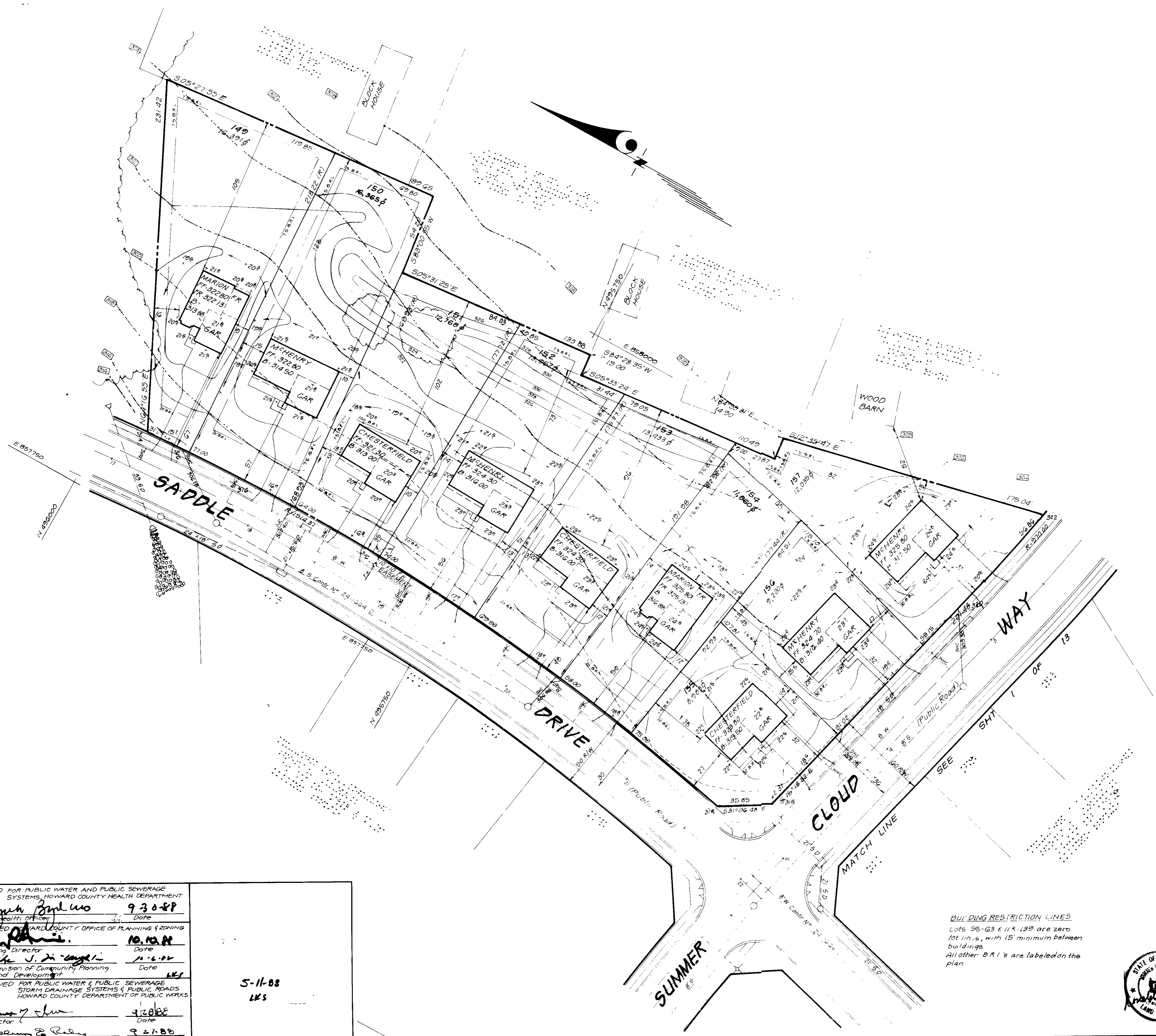
COLUMBIA VILLAGE OF LONG REACH
SECTION 2 AREA 1 and SECTION 2 AREA 2
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR RYLAND GROUP, INC - COLUMBIA DIVISION
7130 Ministrel Way, Suite 301
Columbia, Md. 21045

DATE: MARCH 1988

SCALE: 1" = 30'
DRAWING: 1 OF 13
JOB NO: 88-003
FILE NO: 88-003-X

BUILDING RESTRICTION LINES
Lots 55-63 & 118-142 are zero lot lines, with 15' minimum bc near buildings.
All other B.R.L.s are labeled on the plan.



NOTE:
Proposed term located on Lots 150 thru 154
was taken from rough grading plan F-88-76

ADDRESS CHART	
LOT NO	STREET ADDRESS
149	G401 SADDLE DRIVE
150	G405
151	G409
152	G413
153	G417
154	G421
155	G418 SUMMER CLOUD WAY
156	G410
157	G406

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer *[Signature]* 9-30-88
 Date

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
 Planning Director *[Signature]* 10-10-88
 Date
 Chief, Division of Community Planning and Land Development *[Signature]* 11-6-88
 Date

APPROVED FOR PUBLIC WATER & PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director *[Signature]* 9-28-88
 Date
 Chief, Bureau of Engineering *[Signature]* 9-27-88
 Date

S-11-88
LKS

BUILDING RESTRICTION LINES
 Lots 35-63 & 119-139 are zero lot in.s., with 15' minimum between buildings.
 All other B.R.L.'s are labeled on the plan.



CLARK • FINEFROCK & SACKETT, INC
 ENGINEERS • PLANNERS • SURVEYORS

MINSTREL WAY • COLUMBIA MD 21045 • (301) 881-7200 • BA 10 • 130114 • 151 • WA 11

DESIGNED PDM	SITE DEVELOPMENT PLAN LOTS 1-5, 65-69, 96-106, 118-142, 149-170 AND 197-221	SCALE 1" = 30'
DRAWN BAL PDM		COLUMBIA VILLAGE OF LONG REACH
CHECKED JME	SECTION 2 AREA 1 and SECTION 2 AREA 2 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	DRAWING 2 OF 13
DATE March 1988	FOR THE RYLAND GROUP, INC - COLUMBIA DIVISION 7130 Minstrel Way, Suite 201 Columbia, Maryland 21045	JOB NO 88-003
		FILE NO 88-003X

SDP-88-178c

ADDRESS CHART	
LOT NO.	STREET ADDRESS
197	G301 DISTANT ROCK PATH
198	G305
199	G309
200	G313
201	G317
202	G321
203	G325
204	G329
205	G316
206	G303 SHORT WHEEL WAY
207	G307
208	G311
209	G315
210	G319
211	G322
212	G318
213	G314
214	G310
215	G306
216	G302

TYPICAL HOUSES Scale 1" = 30'
NOTE: All units have 1" roof eaves front & rear

MCLEAN
20 OH
2119 = 7003 sq ft Min Lot Size

PRINCETON
20 OH
1 CAR 1448 sq ft = 4826 sq ft Min Lot Size

KING GEORGE
20 OH
1296 = 4186 sq ft Min Lot Size

CHESTERFIELD
20 OH
1564 = 5214 sq ft Min Lot Size

ENTERPRISE
20 OH
2 CAR 1606 sq ft = 5355 sq ft Min Lot Size

HAMILTON
10 OH
1869 sq ft = 6232 sq ft Min Lot Size (Hamilton II only)
1893 sq ft = 6312 sq ft Min Lot Size (Hamilton I)

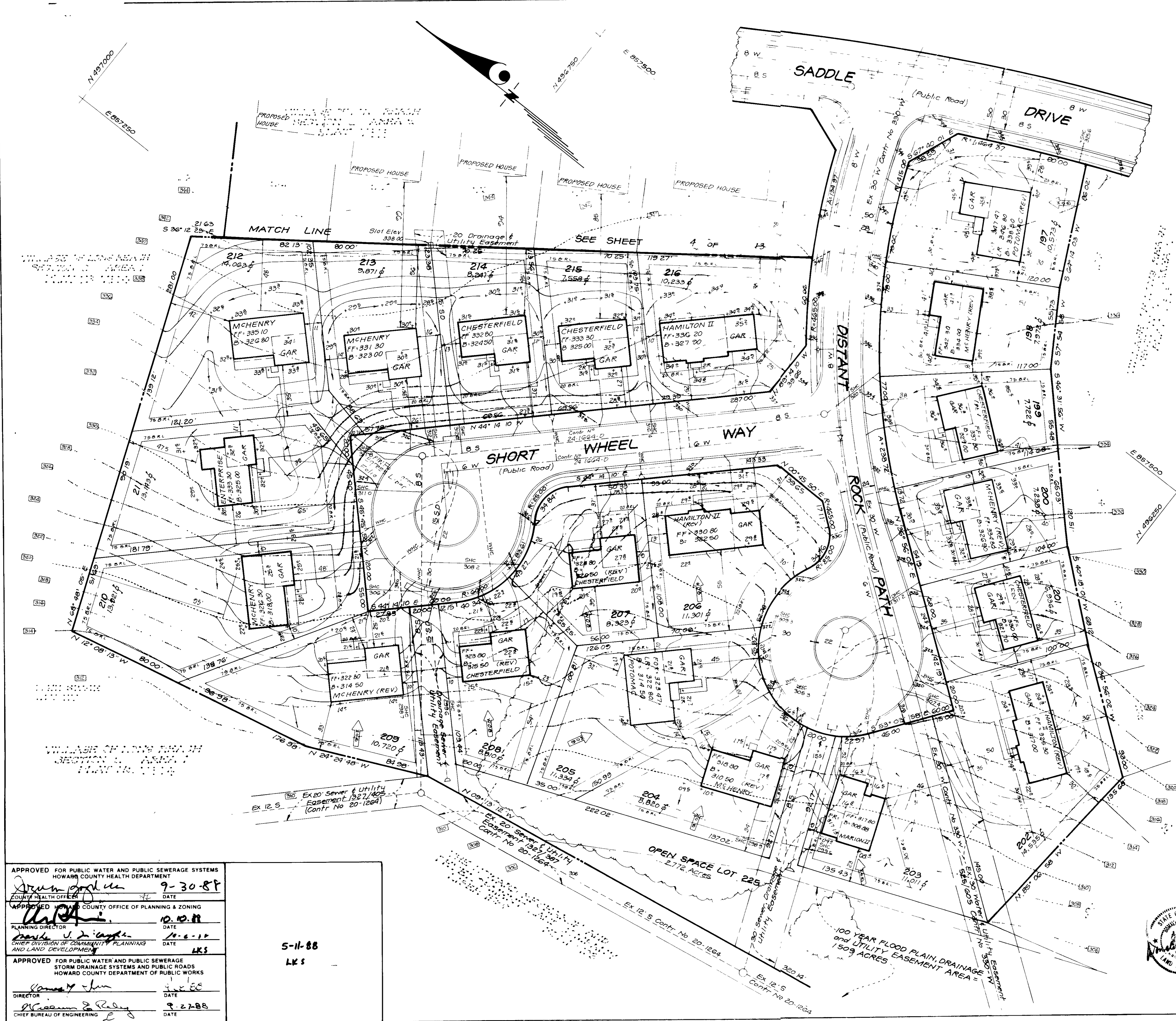
MCHENRY
20 OH
1800 sq ft = 6000 sq ft Min Lot Size

MARION II
20 OH
1439 sq ft = 4786 sq ft Min Lot Size

POTOMAC
20 OH
2007 sq ft = 6690 sq ft Min Lot Size

PINEHURST
20 OH
Min Lot Size = 3120 sq ft

BUILDING RESTRICTION LINES
Lots 55-63 & 118-139 are zero lot lines, with 15' minimum between buildings
All other B.R.L.s are labeled on the plan



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 9-30-87

APPROVED FOR COUNTY OFFICE OF PLANNING & ZONING
DATE: 10-10-87

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 5-11-88



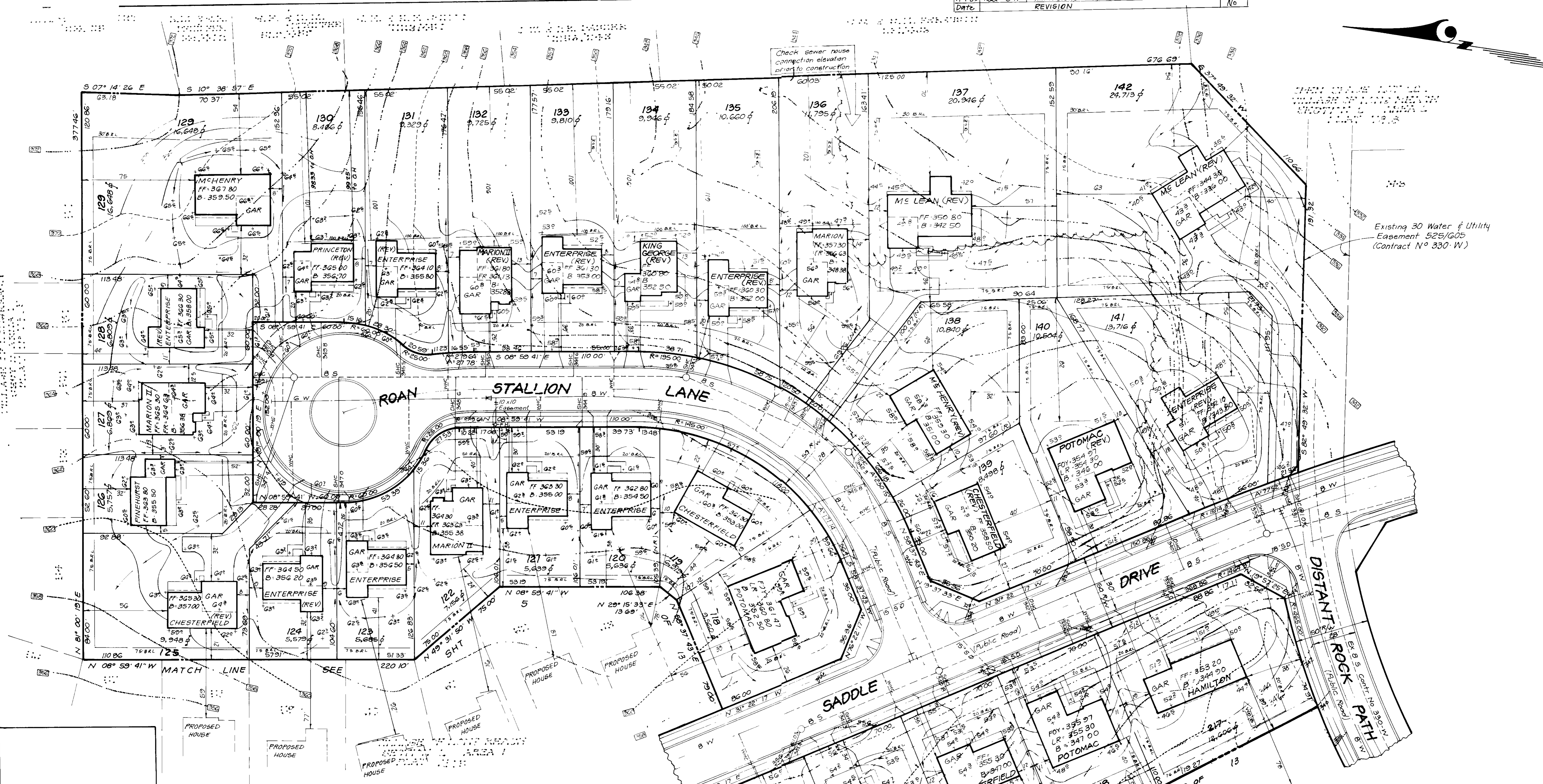
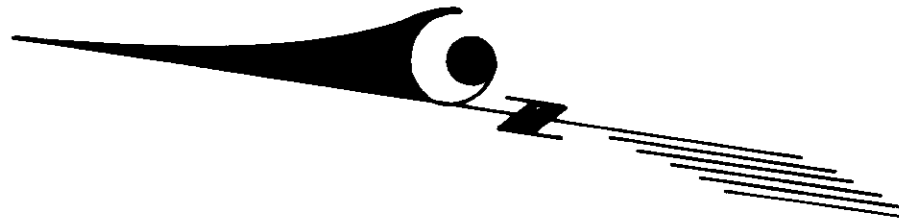
CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7115 MINSTREL WAY • COLUMBIA MD 21045 • (301) 381-7200 BALTO • (301) 1-1811 WA

SITE DEVELOPMENT PLAN
LOTS 1-5, 55-64, 96-106, 118-142, 149-170 AND 197-211

COLUMBIA VILLAGE OF LONG REACH
SECTION 2 AREA 1 SECTION 2 AREA 2
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR THE RYLAND GROUP INC - COLUMBIA DIVISION
7130 Minstrel Way Suite 201
Columbia, Md 21045

SCALE: 1" = 30'
DRAWING: 3 OF 13
JOB NO: 88-003
FILE NO: 88-003X



Check sewer house connection elevation prior to construction

Existing 30' Water & Utility Easement 525/G05 (Contract No 330-W)

ADDRESS CHART	
LOT NO	STREET ADDRESS
118	G303 ROAN STALLION LANE
119	G307
120	G315
121	G323
122	G327
123	G331
124	G335
125	G339
126	G343
127	G347
128	G346
129	G342
130	G338
131	G334
132	G330
133	G326
134	G322
135	G318
136	G314
137	G310
138	G306
139	G302
140	G298
141	G293
142	G287
143	G281
144	G275
145	G269
146	G263
147	G257
148	G251
149	G245
150	G239
151	G233
152	G227
153	G221
154	G215
155	G209
156	G203
157	G197
158	G191
159	G185
160	G179
161	G173
162	G167
163	G161
164	G155
165	G149
166	G143
167	G137
168	G131
169	G125
170	G119
171	G113
172	G107
173	G101
174	G95
175	G89
176	G83
177	G77
178	G71
179	G65
180	G59
181	G53
182	G47
183	G41
184	G35
185	G29
186	G23
187	G17
188	G11
189	G5
190	G0
191	G0
192	G0
193	G0
194	G0
195	G0
196	G0
197	G0
198	G0
199	G0
200	G0
201	G0
202	G0
203	G0
204	G0
205	G0
206	G0
207	G0
208	G0
209	G0
210	G0
211	G0
212	G0
213	G0
214	G0
215	G0
216	G0
217	G0
218	G0
219	G0
220	G0
221	G0

BUILDING RESTRICTION LINES
 Lots 55-63 & 118-139 are zero lot lines, with 15' minimum between buildings.
 All other B.R.L.s are labeled on the plan.

5-11-88 LKS

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE 9-30-88

APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING & ZONING
 DATE 10-10-88

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DATE 9-27-88

CLARK • FINEROCK & SACKETT, INC
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA MD 21045 • (410) 381-7700 • BALTY • MD

SITE DEVELOPMENT PLAN
 LOTS 1-5, 55-64, 96-106, 110-142, 149-170 AND 197-221
COLUMBIA
VILLAGE OF LONG REACH

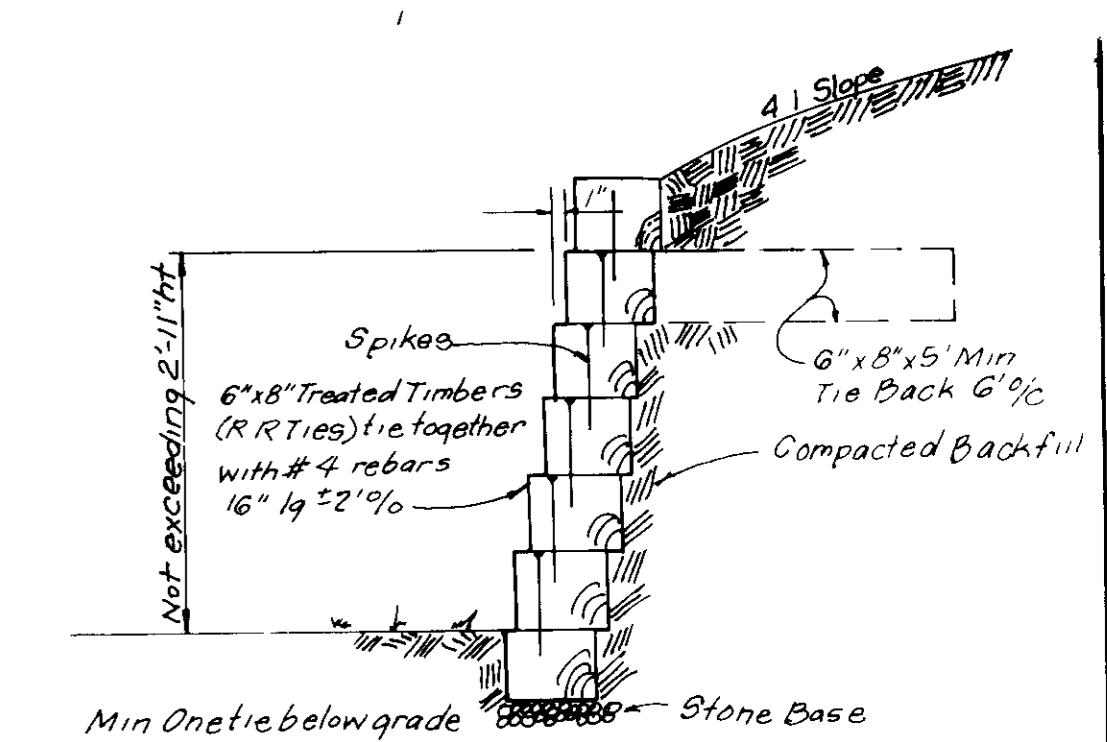
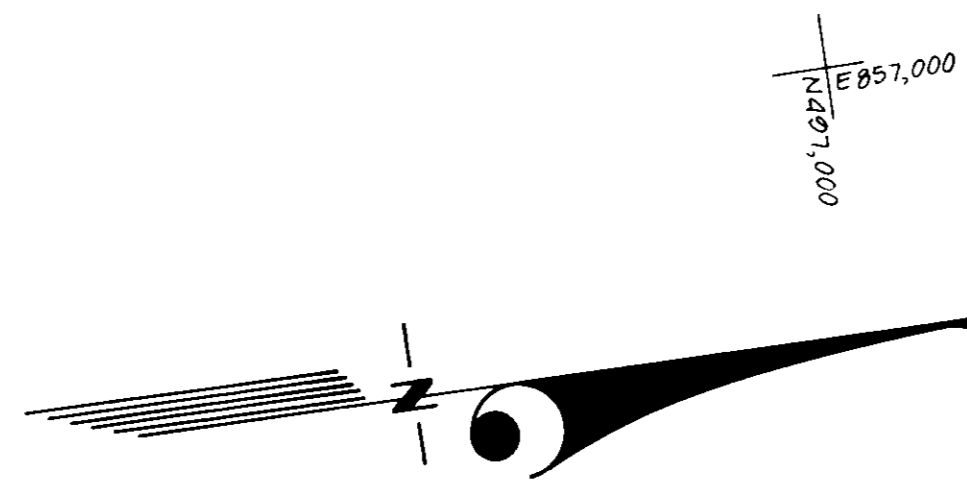
SECTION 2 AREA 1 and SECTION 2 AREA 2
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FOR THE RYLAND GROUP INC - COLUMBIA DIVISION
 7130 Minstrel Way, Suite 201
 Columbia, Md 21045

SCALE 1" = 30'
 DRAWING 4 OF 13
 JOB NO 88-003
 FILE NO 88-003X

DESIGNED PDM
 DRAWN BAL PDM
 CHECKED JME
 DATE March 1988





ADDRESS CHART	
LOT NO	STREET ADDRESS
55	G301 SADDLE DRIVE
56	G305
57	G309
58	G313
59	G317
60	G321
61	G325
62	G329
63	G333
64	G324

BUILDING RESTRICTION LINES
 1 1/2" 5' 2 1/2" 18' 180' are zero
 4' lines with 15' minimum between
 buildings
 All other 8' 4' 5' are applied on the
 1/2"

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *James Boyler* 9-30-88
 DATE: 9-30-88

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR: *Mark S. McLaughlin* 10-10-88
 DATE: 10-10-88

CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 DATE: 10-6-88
 LKS

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *James P. Law* 9-10-88
 DATE: 9-10-88

CHIEF BUREAU OF ENGINEERING: *Ray* 9-21-88
 DATE: 9-21-88

S-11-88
 LKS

CLARK • FINEFROCK & SACKETT, INC
 ENGINEERS • PLANNERS • SURVEYORS
 111 MINISTERS LANE • LUMBERTON, MD 21088

DESIGNED: PDM
 DRAWN: BAL, PDM
 CHECKED: JME
 DATE: March 1988

SITE DEVELOPMENT PLAN
 LOTS 1-5, 55-64, 96-106, 118-142, 149-170 AND 197-221

COLUMBIA VILLAGE OF LONG REACH
 SECTION 2 AREA 1 and SECTION 2 AREA 2
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FOR THE CYLAND GROUP INC - COLUMBIA DIVISION
 7150 Minster Lane, Suite 201
 Columbia, Maryland 21045

SCALE: 1" = 30'
 DRAWING: 5 OF 13
 JOB NO: 88-003
 FILE NO: 88-003X





APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER *John B. [Signature]* 7-30-87
 DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR *[Signature]* 10-10-88
 DATE
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 DATE 10-6-88
 LMS


APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR *[Signature]* 9-1-88
 DATE
 CHIEF BUREAU OF ENGINEERING *[Signature]* 9-27-88
 DATE

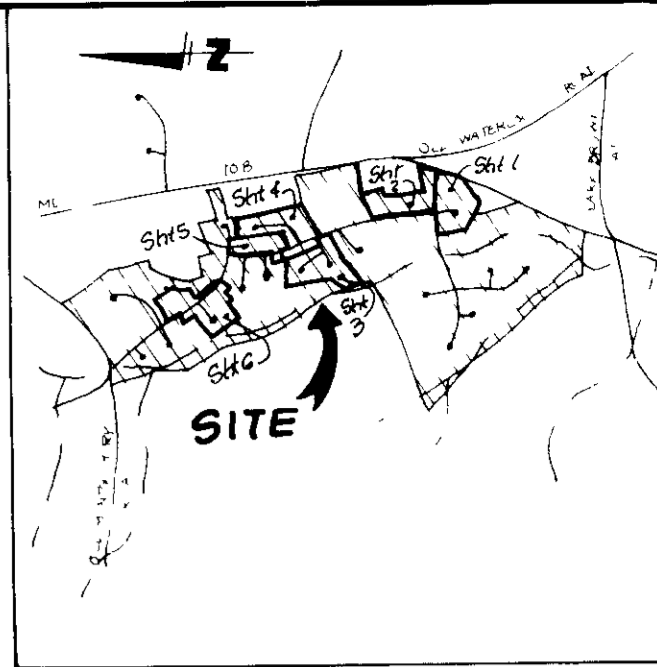
5-11-88
 LMS

ADDRESS CHART	
LOT NO	STREET ADDRESS
1	8198 TAMAR DRIVE
2	8194 " "
3	8190 " "
4	8186 " "
5	8182 " "
6	8105 TIDE ROCK SQUARE
7	8107 " "
8	8111 " "
9	8115 " "
100	8118 " "
101	8114 " "
102	8110 " "
103	8106 " "
104	8179 TAMAR DRIVE
105	8183 " "
106	8187 " "

BUILDING RESTRICTION LINES
 Lots 55-63 & 118-130 are zero lot lines, with 15' minimum between buildings.
 All other B.R.L.'s are labeled on the plan.



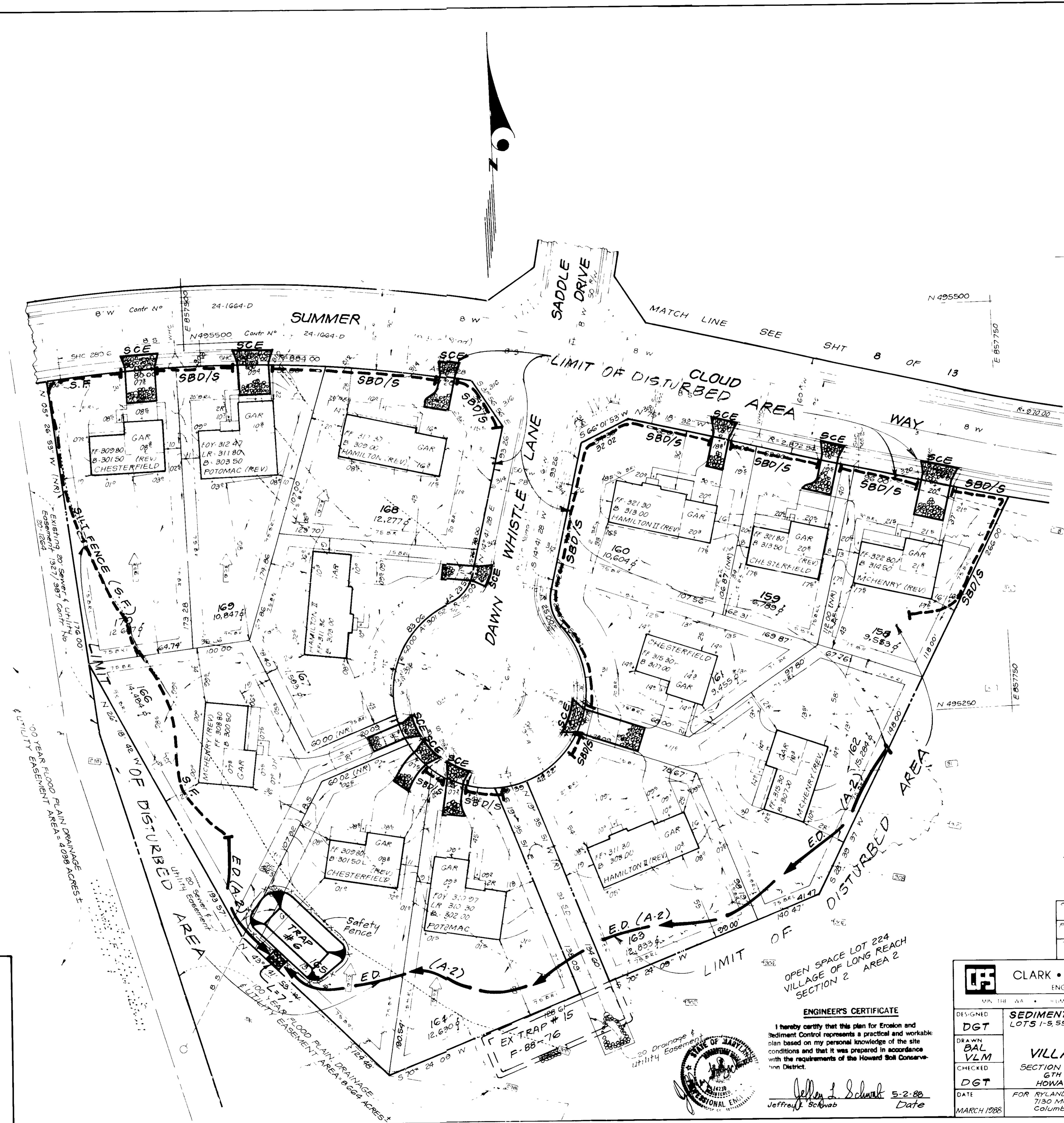
 CLARK • FINEROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS 7115 MINSTREL WAY • COLUMBIA, MD. 21045 • (703) 881-7200 • BALTO. • (410) 528-1100		
DESIGNED PDM	SITE DEVELOPMENT PLAN LOTS 1-5, 55-64, 96-106, 118-142, 149-157 AND 197-221	SCALE 1" = 30'
DRAWN BAL PDM	COLUMBIA VILLAGE OF LONG REACH SECTION 2 AREA 1 and SECTION 2 AREA 2	DRAWING 6 OF 13
CHECKED JME	6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO 88-003
DATE FEB 1988	FOR THE RYLAND GROUP INC - COLUMBIA DIVISION 7130 Minstrel Way Suite 200 Columbia, Maryland 21045	FILE NO 88-003X



VICINITY MAP
Scale 1" = 200'

LEGEND

- Contour Interval 2' ±
- Existing Contour 2' ±
- Proposed Contour 4' 0"
- Spot Elevation 10' ±
- Direction of Drainage
- Walk out Base ment
- Trees to be Saved
- Existing Trees
- Straw Bale Dike or Silt Fence SBD/B
- Stabilized Construction Entrance SCE
- Earth Dike E.D. (A-2)



TRAP # 6 SOST ST.
 DA = 1.60 Ac
 Storage Required = 2880 cf
 Storage Provided = 3000 cf
 Weir Crest = 299.5
 Cleanout Elev = 297.0
 Bottom Elev = 295.5
 Bottom Dimensions = 44' x 14'
 Depth = 3'
 Side Slope 2:1
 Weir Length L = 7'

Reviewed for **HOWARD** SCD
 Name
 and meets Technical Requirements
 Signature Date
 U.S. Soil Conservation Service
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 Approved Date 9/15/88

DEVELOPER'S/BUYER'S CERTIFICATE
 I/We certify that all development and construction will be done according to the 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 Date 5-2-88

LONG REACH		2/1, 2/2
Plot No	Block No	Zone
1710	200	37
TOTAL AREA		3490000 ± 3490000

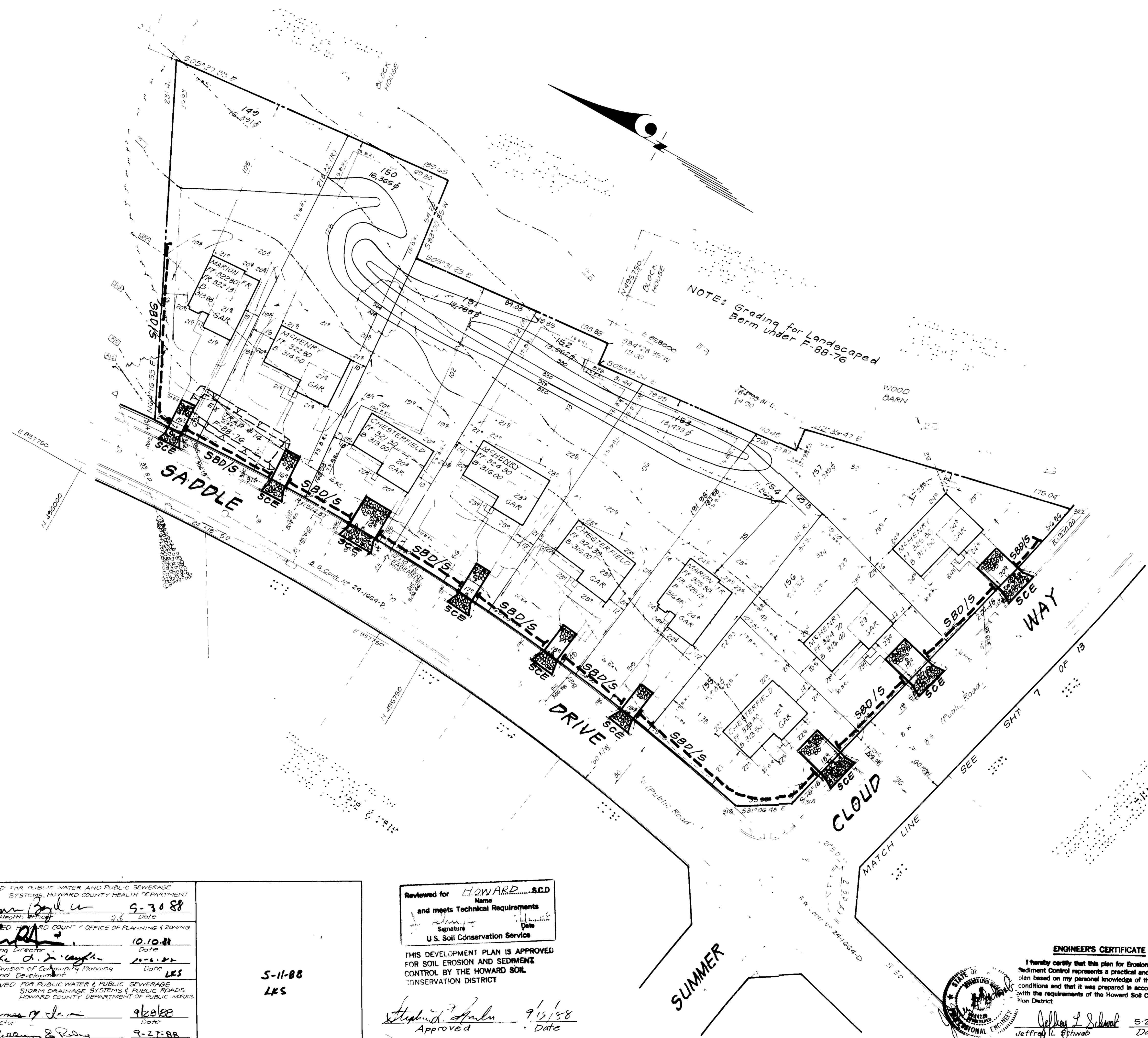
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER DATE 9-30-88
 APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR DATE 10-19-88
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE 10-6-88
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR DATE 9-27-88
 CHIEF BUREAU OF ENGINEERING DATE

5-11-88
 LKS

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 of Engineer Date 5-2-88
 Jeffrey J. Schwab



CLARK • FINEFROCK & SACKETT, INC
 ENGINEERS • PLANNERS • SURVEYORS
 1730 Minstrel Way, Suite 201, Columbia, Md. 21045
 DESIGNED: DGT
 DRAWN: BAL, VLM
 CHECKED: DGT
 DATE: MARCH 1988
SEDIMENT AND EROSION CONTROL PLAN
 LOTS 1-5, 55-64, 96-106, 118-142, 149-170 AND 197-221
COLUMBIA
 VILLAGE OF LONG REACH
 SECTION 2 AREA 1 and SECTION 2 AREA 2
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30'
 DRAWING: 7 OF 13
 JOB NO: 88-003
 FILE NO: 88-003 SE



NOTE: Proposed berm located on Lots 150 thru 154 was taken from rough grading plan F-88-76.

DEVELOPER'S, BUILDERS 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 5-2-88
Date

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 SOUTH HEALTH OFFICE
 5-30-88
 Date

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
 Planning Director
 10-10-88
 Date

APPROVED FOR PUBLIC WATER & PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS & PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director
 9-28-88
 Date

Chief Bureau of Engineering
 9-27-88
 Date

S-11-88
LKS

Reviewed for HOWARD S.C.D.
 Name
 and meets Technical Requirements
 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 9/13/88
 Approved Date

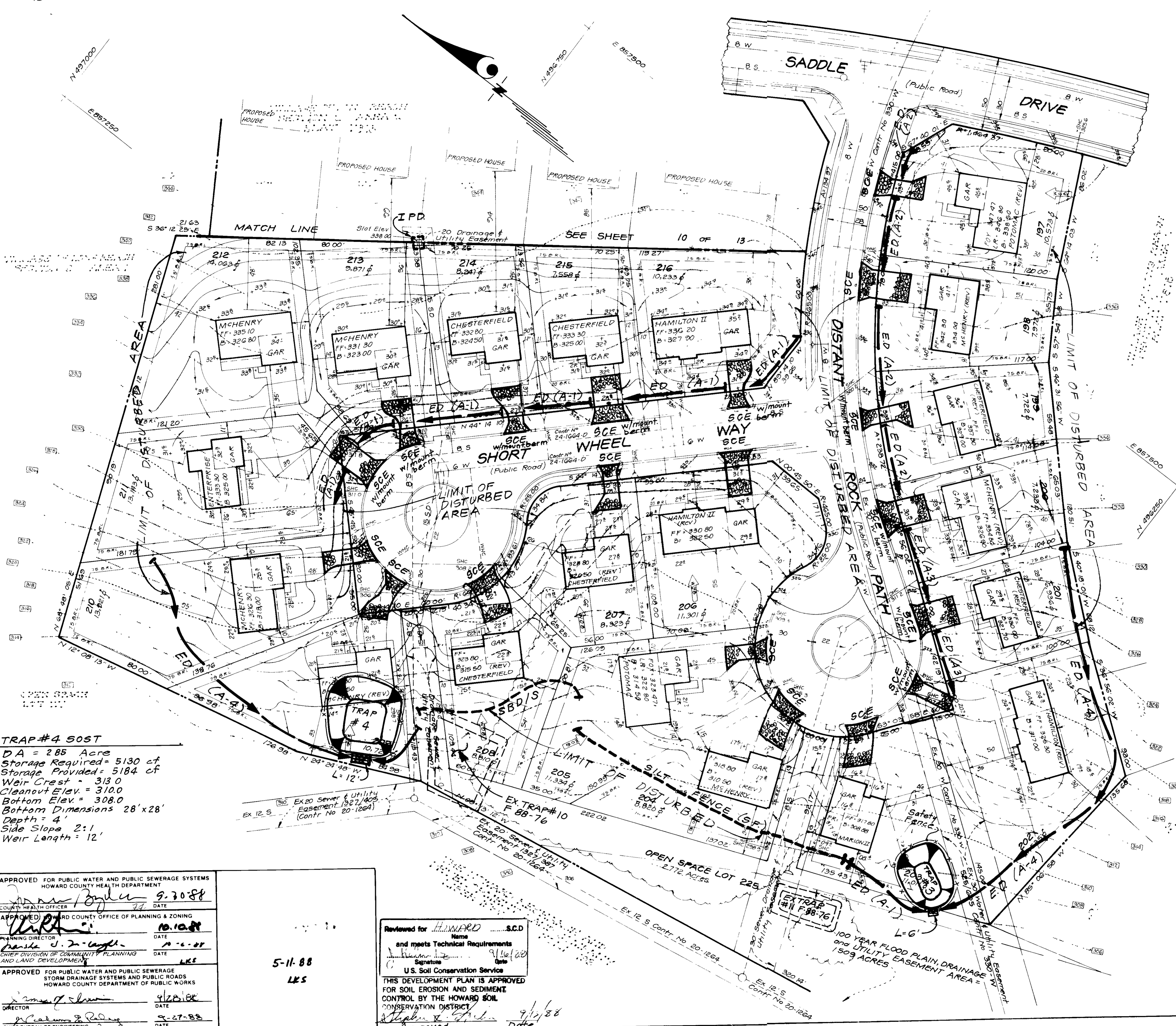
ENGINEER'S CERTIFICATE

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 5-2-88
 Jeffrey L. Bihwab Date

CLARK • FINEROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS		SCALE 1" = 30'
DESIGNED DGT	SEDIMENT AND EROSION CONTROL PLAN LOTS 1-5, 55-64, 96-106, 118-142, 149-170 AND 197-221 COLUMBIA VILLAGE OF LONG REACH	DRAWING 8 OF 13
DRAWN BAL	SECTION 2 AREA 1 and SECTION 2 AREA 2 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO 88-003
CHECKED DGT		FILE NO 88-003SE
DATE March 1988	FOR THE RYLAND GROUP INC - COLUMBIA DIVISION 7130 Minstrel Way, Suite 201 Columbia, Maryland 21045	



TRAP#4 SOST
 DA = 285 Acre
 Storage Required = 5130 cf
 Storage Provided = 5184 cf
 Weir Crest = 313.0
 Cleanout Elev. = 310.0
 Bottom Elev. = 308.0
 Bottom Dimensions 28'x28'
 Depth = 4'
 Side Slope 2:1
 Weir Length = 12'

TRAP#3 SOST
 DA = 138 Acres
 Storage Required = 2484 cf
 Storage Provided = 2560 cf
 Weir Crest = 307.5
 Cleanout = 304.5
 Bottom Elev = 302.5
 Depth = 4'
 Bottom Dimensions = 24'x12'
 Side Slope = 2:1
 Weir Length = 6'

DEVELOPER'S CERTIFICATE
 "I/We certify that all development and construction will be done according to the 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: *Harold W. Kunkling*
 Date: 5-2-88

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: *Jeffrey J. Schwab*
 Date: 5-2-88

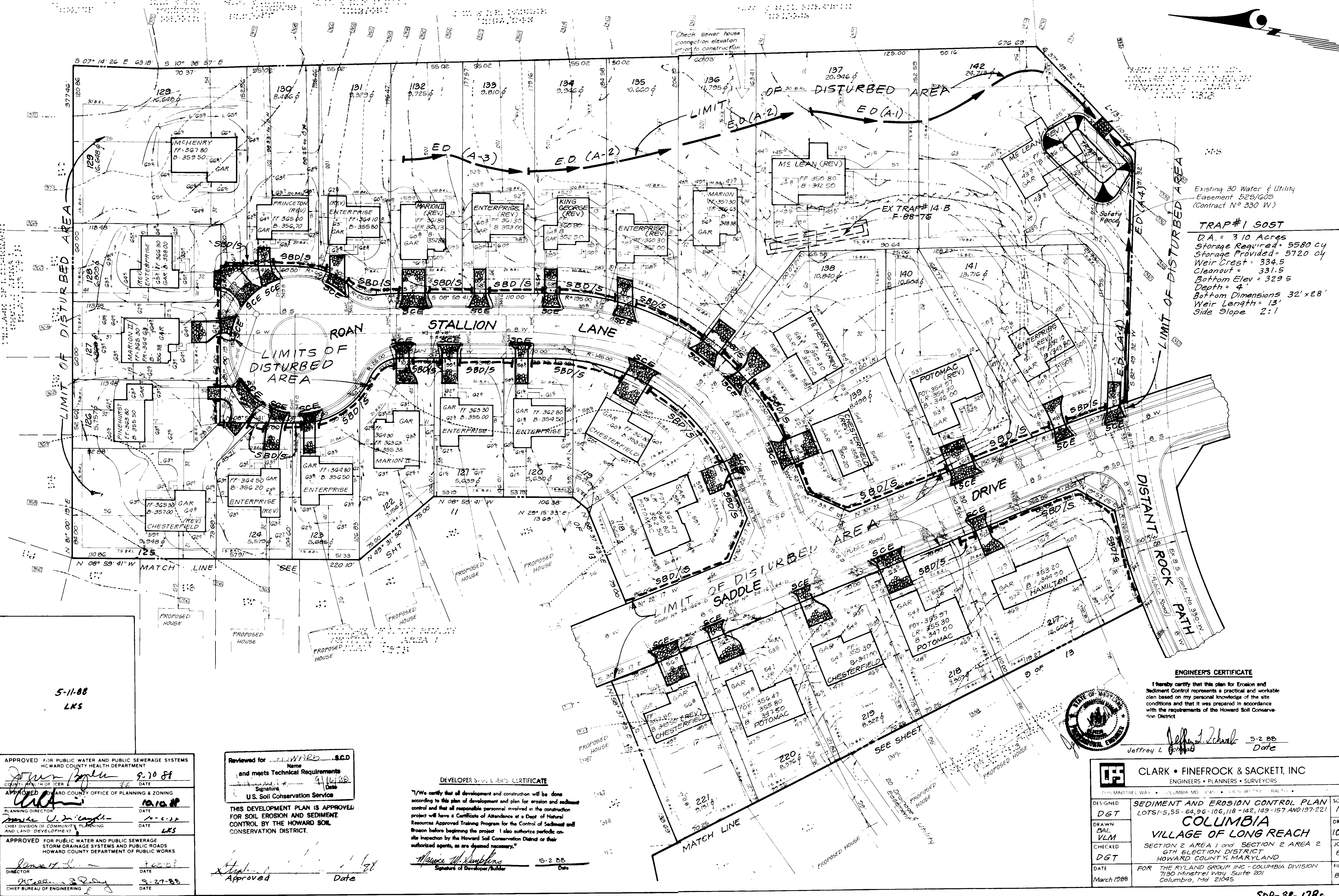
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *James J. Zolner* 9-30-88
 DATE: 9-30-88
 APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR: *Wanda J. DeLughe* 10-10-88
 DATE: 10-10-88
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *William J. ...* 9-28-88
 DATE: 9-28-88
 CHIEF BUREAU OF ENGINEERING: *...* 9-27-88
 DATE: 9-27-88

5-11-88
 LKS

Reviewed for HOWARD S.C.D.
 Name: *...*
 and inspects Technical Requirements
 Signature: *...* Date: *9/11/88*
 U.S. Soil Conservation Service
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature: *...* Date: *9/11/88*
 Approved

CLARK • FINEFROCK & SACKETT, INC
 ENGINEERS • PLANNERS • SURVEYORS
 7130 MINSTREL WAY • COLUMBIA, MD 21045 • (410) 881-7216 FAX •

DESIGNED	SEDIMENT AND EROSION CONTROL PLAN	SCALE	1" = 30'
DGT	LOTS 1-5, 55-64, 96-106, 118-142, 149-170 AND 197-221	DRAWING	9 OF 13
DRAWN	COLUMBIA VILLAGE OF LONG REACH	JOB NO.	88-003
BAL	SECTION 2 AREA 1 SECTION 2 AREA 2	FILE NO.	88-003SE
YLM	6TH ELECTION DISTRICT		
CHECKED	HOWARD COUNTY, MARYLAND		
DGT	FOR THE RYLAND GROUP INC - COLUMBIA DIVISION		
DATE	7190 Minstrel Way Suite 201		
March 1986	Columbia, Md 21045		



Existing 30 Water & Utility Easement 525/605 (Contract N° 330 W)

TRAP#1 SOST
 D.A. = 3.10 Acres
 Storage Required = 5580 cy
 Storage Provided = 5720 cy
 Weir Crest = 334.5
 Cleanout = 331.5
 Bottom Eley = 329.5
 Depth = 4'
 Bottom Dimensions 32' x 28'
 Weir Length = 13'
 Side Slope 2:1

5-11-88
 LKS

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

John P. [Signature] 9-30-88
 COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING

[Signature] 10-10-88
 PLANNING DIRECTOR DATE

Charles J. [Signature] 10-6-88
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

[Signature] 9-27-88
 DIRECTOR DATE

CHIEF BUREAU OF ENGINEERING

Reviewed for LAND S.C.D.
 and meets Technical Requirements

Name [Signature]
 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] Approved Date

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."

[Signature] 5-2-88
 Signature of Developer/Builder Date

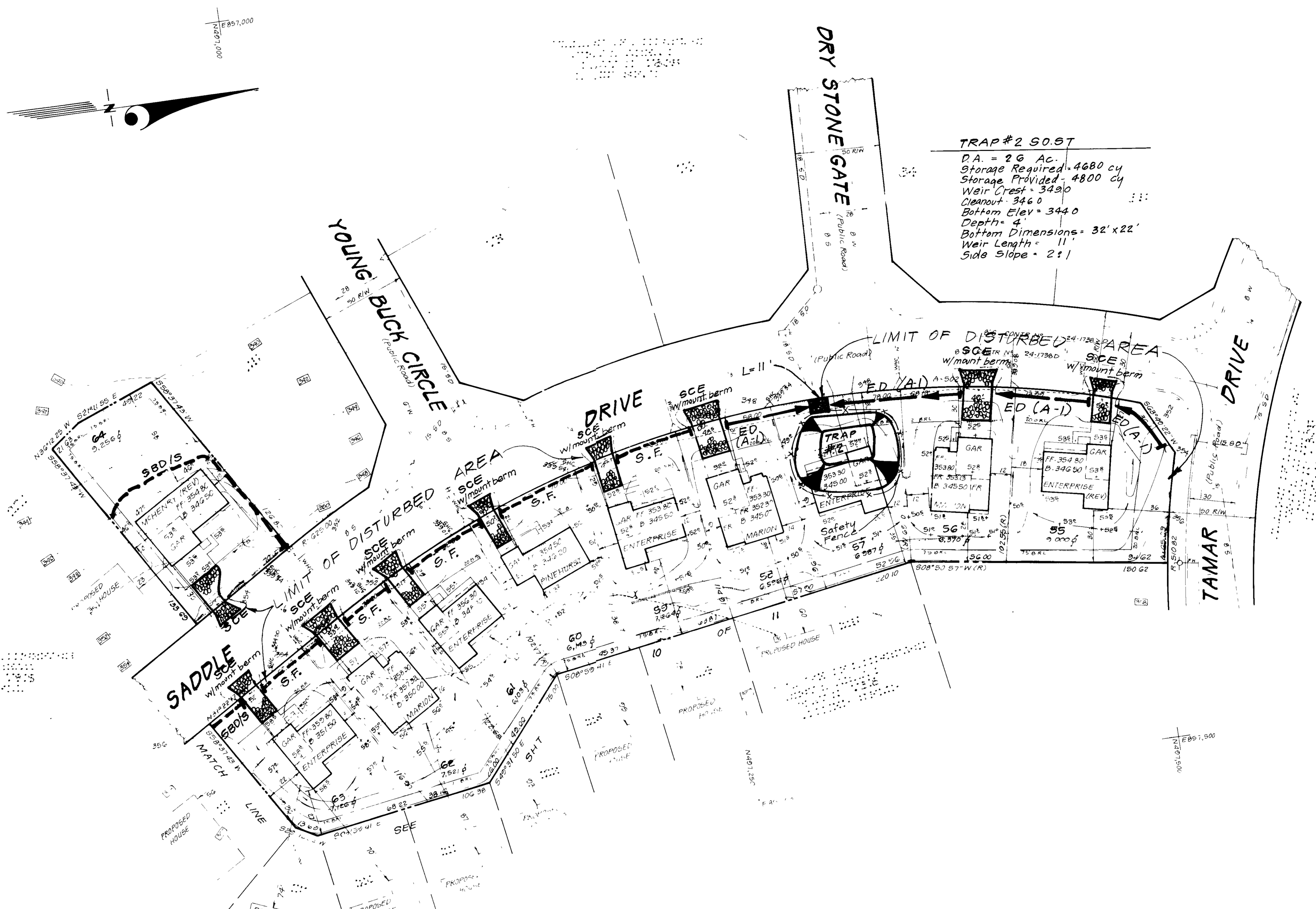
ENGINEER'S CERTIFICATE

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] 5-2-88
 Date



CLARK • FINEFROCK & SACKETT, INC ENGINEERS • PLANNERS • SURVEYORS 7130 MINISTREL WAY • COLUMBIA, MD. 21045 • (410) 271-7700 • BALTIMORE, MD.		
DESIGNED DGT	SEDIMENT AND EROSION CONTROL PLAN LOTS 1-5, 55-64, 96-106, 118-142, 149-157 AND 197-221	SCALE 1" = 30'
DRAWN BAL	COLUMBIA VILLAGE OF LONG REACH SECTION 2 AREA 1 and SECTION 2 AREA 2 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	DRAWING 10 OF 13
CHECKED DGT		JOB NO. 88-003
DATE March 1988	FOR THE RYLAND GROUP INC - COLUMBIA DIVISION 7130 Ministrel Way, Suite 201 Columbia, Md. 21045	FILE NO. 88-003



TRAP #2 S.O.S.T
 D.A. = 26 AC.
 Storage Required - 4680 cy
 Storage Provided - 4800 cy
 Weir Crest = 342.0
 Cleanout = 346.0
 Bottom Elev = 344.0
 Depth = 4'
 Bottom Dimensions = 32' x 22'
 Weir Length = 11'
 Side Slope = 2:1

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE 9-30-88
 APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
 DATE 10-10-88
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DATE 9-27-88

5-11-88
 LKS

Reviewed for HOWARD S.C.D.
 Name
 and meets Technical Requirements
 Signature Date 9/16/88
 U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED
 FOR SOIL EROSION AND SEDIMENT
 CONTROL BY THE HOWARD SOIL
 CONSERVATION DISTRICT
 Signature Date 9/11/88
 Approved 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 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
 Date 5-2-88

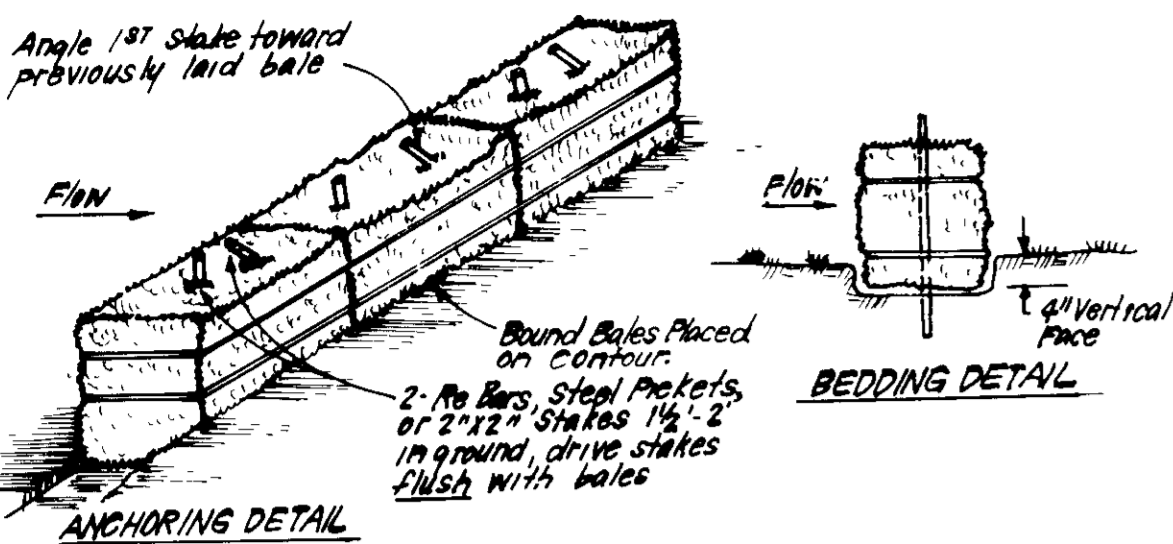


ENGINEER'S CERTIFICATE

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 of Engineer
 Date 5-2-88

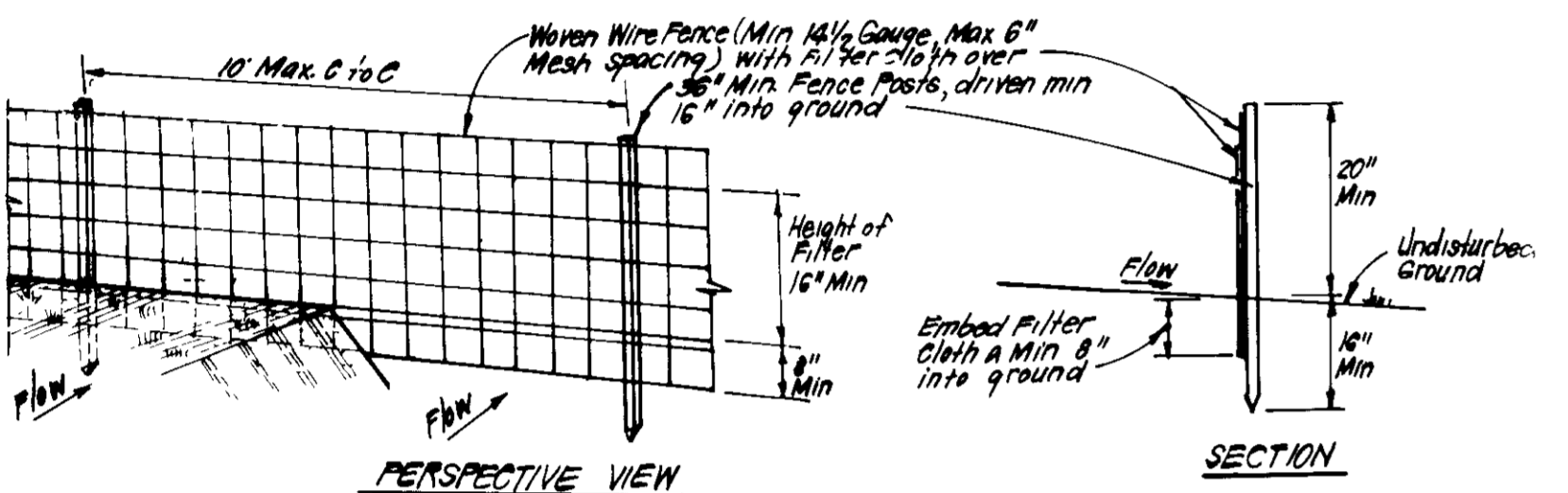
CLARK • FINEFROCK & SACKETT INC ENGINEER • PLANNERS • SURVEYORS	
DATE	SEDIMENT AND EROSION CONTROL PLAN LOTS 1-5, 55-64, 96-106, 118-142, 149-170 AND 197-221
DRAWN	BAL
CHECKED	
DATE	March 1988
FILE NO.	88-003
FILE NO.	88-003



CONSTRUCTION SPECIFICATIONS:

- Bales shall be placed at the top of a slope or on the contour and in a row with ends vertically abutting the adjacent bales.
- Each bale shall be embedded in the soil a min of 4" and placed so the bindings are horizontal.
- Bales shall be secured in place by either 2 stakes or re bars driven thru the bale. The 1st stake in each bale shall be driven toward the previously laid bale at an angle to force the bales together. Stakes shall be driven flush with the bale.
- Inspection shall be frequent and repair replacement shall be made promptly as needed.
- Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

STRAW BALE DIKE DETAIL (SBD)
NO SCALE

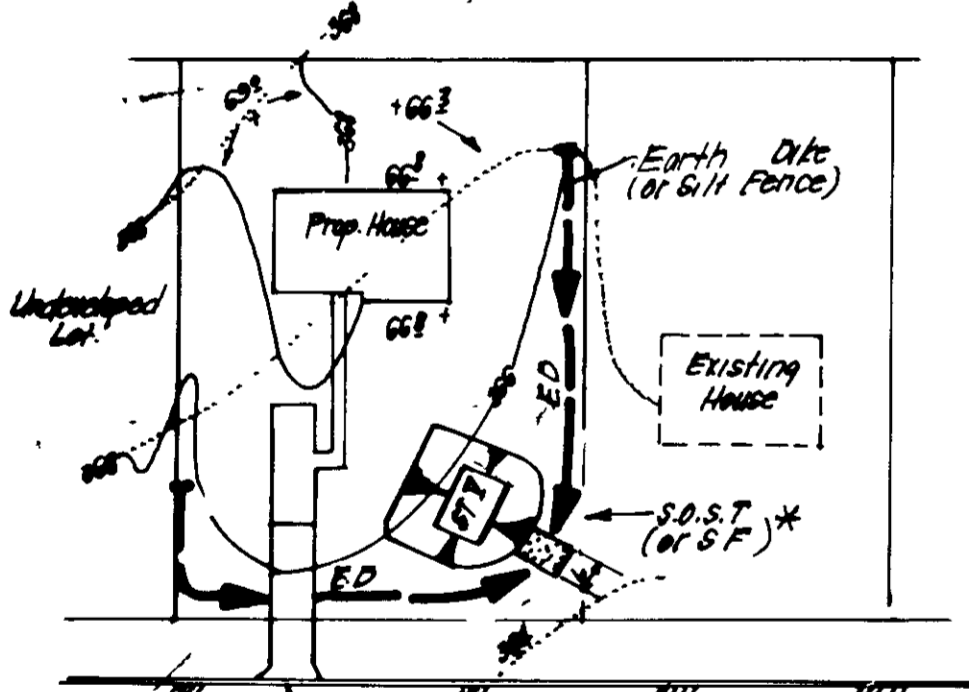


CONSTRUCTION SPECIFICATIONS:

- 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 ties spaced every 24" at top and mid section.
- When 2 sections of filter cloth adjoin each other they shall be overlapped by 6" and folded.
- Maintenance shall be performed as needed and material removed when "bulges" develop in Silt Fence.

POSTS: Steel either T or U Type or 2" Hardwood
FENCE: Woven Wire, 1 1/4 Gauge, 6" Max Mesh Opening
FILTER CLOTH: Filter Cloth, Min 100% Silt Retention, 1/4" or Approx. equiv. Synthetic, T14N or Approx. equiv. Environmentally friendly, or Approx. equal

SILT FENCE DETAIL (S)
NO SCALE

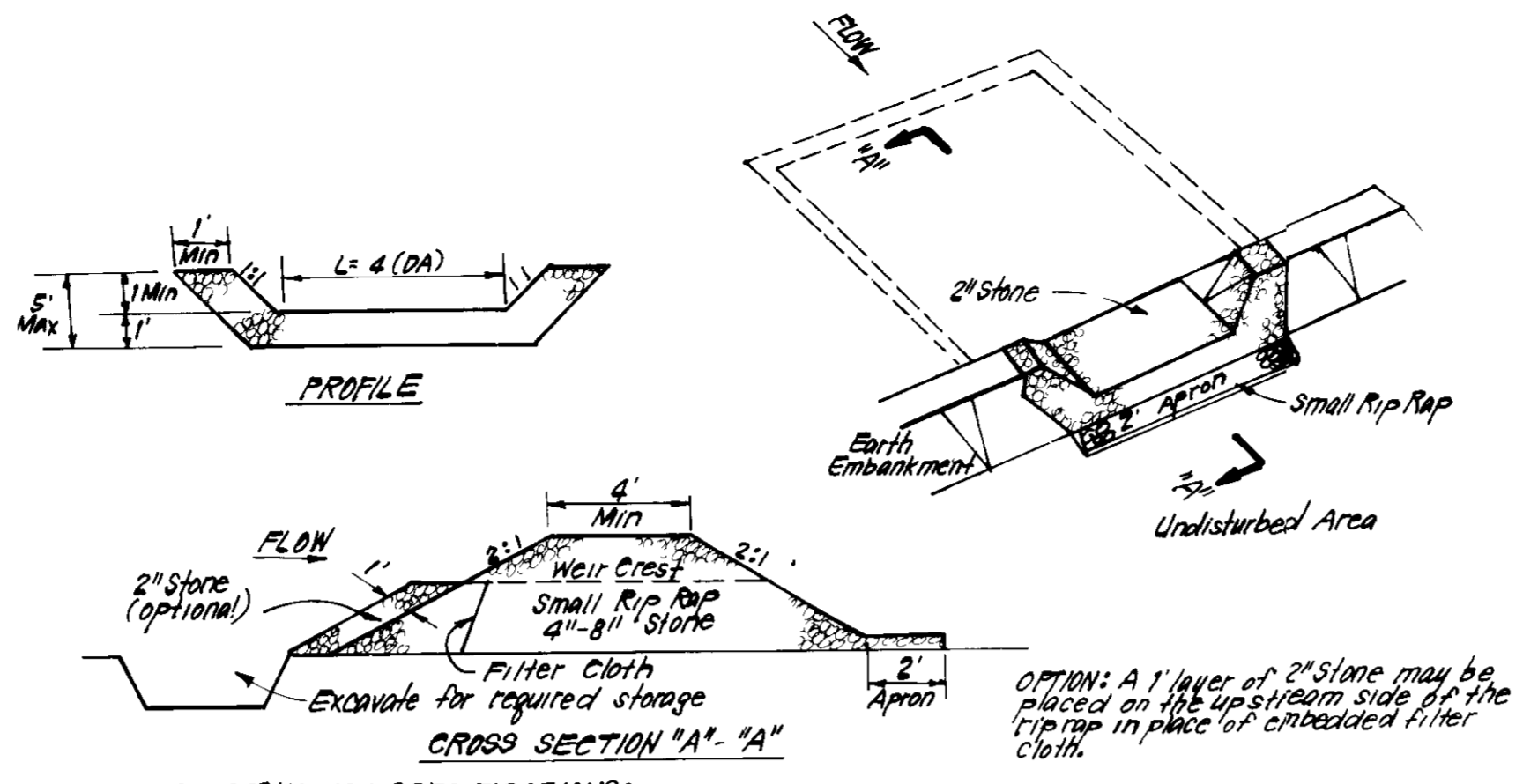


* NOTE: Single lot detail can not be utilized if any two lots sharing common property lines are to be disturbed at the same time or any lots showing a sediment trap.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
DATE: 9-23-88

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE: 10-20-88

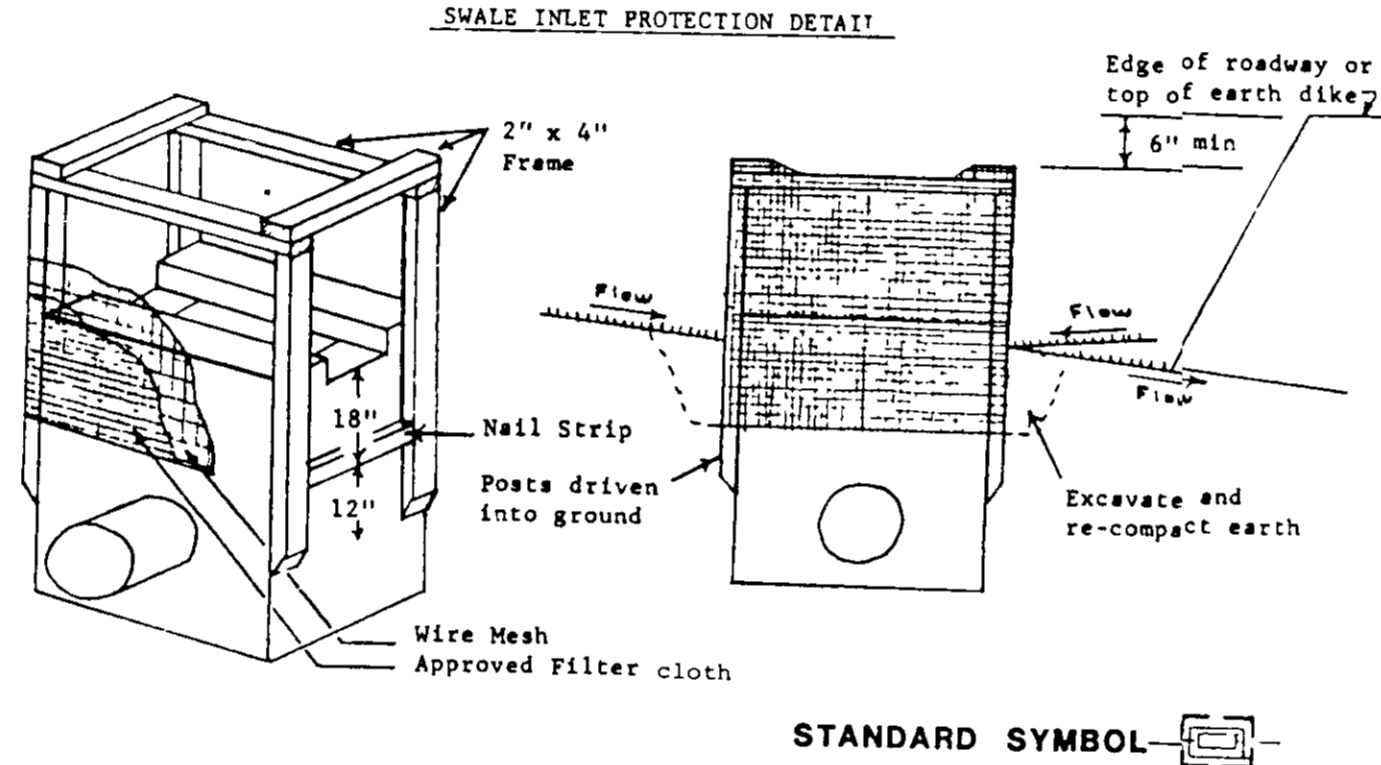
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 9-27-88



CONSTRUCTION SPECIFICATIONS:

- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The soil area shall be cleared.
- The fill material for the embankment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by tamping with equipment of weight while it is being constructed.
- All cut and fill slopes shall be 2:1 or flatter.
- The stone used in the outlet shall be small rip rap 4"-8" along with 1" thickness of 2" aggregate placed on the up-grade side on the small rip rap or embedded filter cloth in the rip rap.
- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

STONE OUTLET SEDIMENT TRAP (S.O.S.T.) STV.
NO SCALE



CONSTRUCTION SPECIFICATIONS:

- MATERIALS:** A. Wooden frame is to be constructed of 2"x4" construction grade lumber. B. Wire mesh must be of sufficient strength to support filter fabric and stone for curb inlets, with water fully impounded against it. C. Filter cloth must be of a type approved for this purpose resistant to sunlight with sieve size, EBS, 40-85, to allow sufficient passage of water and removal of sediment. D. Stone is to be 2" in size and clean, since fines would clog the cloth.
- PROCEDURE:** SWALE DITCHLINE ON YARD INLET PROTECTION
 - Excavate completely around inlet to a depth of 18" below notch elevation.
 - Drive 2x4 post 1' into ground at four corners of inlet. Place nail strips between posts on ends of inlet. Assemble top portion of 2x4 frame with overlap joint shown. Top of frame (weir) must be 6" below edge of road way adjacent to inlet.
 - Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.
 - Stretch filter cloth tightly over wire mesh, the cloth must extend from top of frame to 18" below inlet notch elev. Fasten securely to frame. Ends must meet at post, be overlapped and folded, then fastened down.
 - Back fill around inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on sides.
 - If the inlet is not in a low point, construct a compacted earth dike in the ditch line below the top of this earth dike is to be at least 6" higher than the top of frame (weir).
 - The structure must be inspected frequently and filter to be replaced when clogged.

SWALE INLET PROTECTION DETAIL
NO SCALE

CONSTRUCTION SEQUENCE

NOTE: Work may not begin on lot #57 section 2 area 1 and lot #209 #142 section 2 area 2 until Drainage Areas to Traps # 13, 2 & # 4 have been stabilized and the traps removed.

#	DESCRIPTION	# OF DAYS
1.	Obtain Grading Permit and Install Sediment and Erosion Control Devices.	30
2.	Excavate for Foundations and rough grade & temporarily stabilize.	200
3.	Construct structures, sidewalks & driveways.	250
4.	Final grade & stabilize in accordance with Sids and Specs.	60
5.	Upon approval of the sediment control inspector, remove sediment & erosion controls & stabilize.	25

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 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: *Matthew M. Hensley*
Date: 5-2-88

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

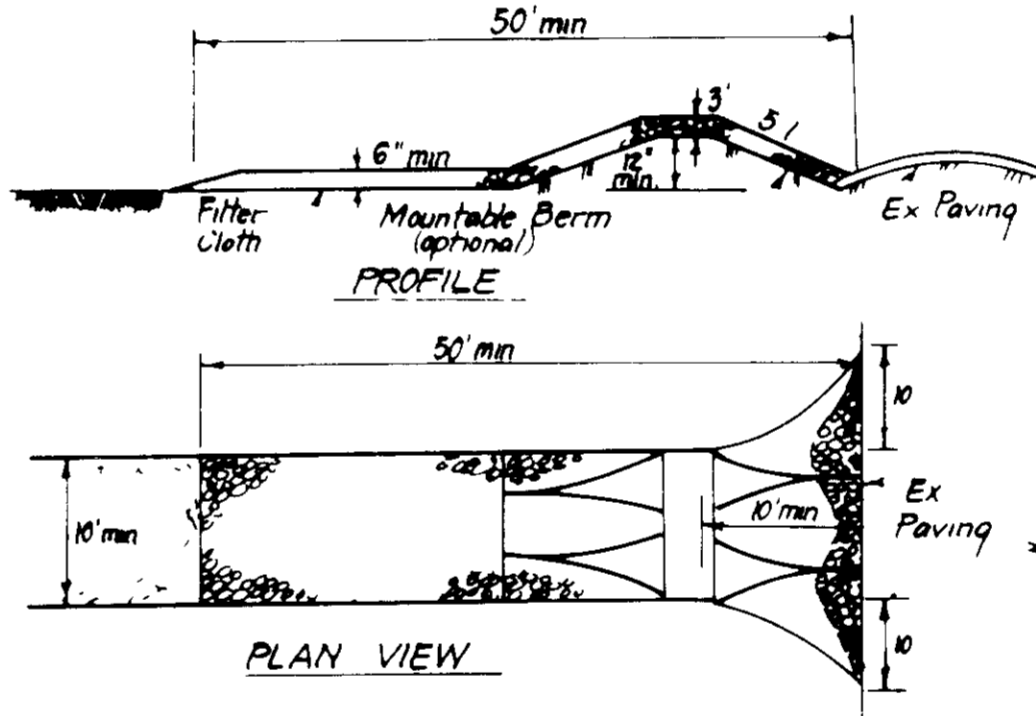
Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft)

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 24 bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.



CONSTRUCTION SPECIFICATIONS

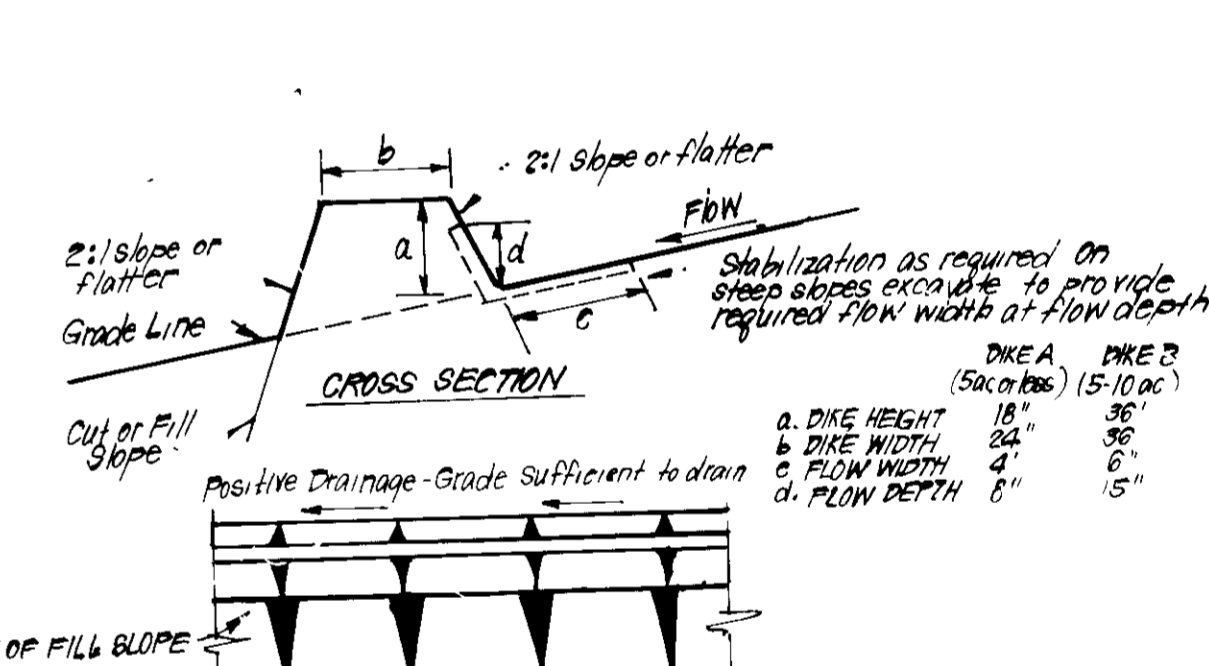
- Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
- Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a maintainable berm with 5:1 slopes will be permitted.
- Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE (SCE)
NO SCALE

SEDIMENT CONTROL NOTES

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction (992-2437).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:

Total Area of Site	12.34 Acres
Area Disturbed	15.37 Acres
Area to be roofed or paved	5.57 Acres
Area to be vegetatively stabilized	9.80 Acres
Total Cut	Cu yds
Total Fill	Cu yds
Offsite waste/borrow area location	N/A
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- If houses are to be constructed on a "fast-sold" basis, at random, Single Lot Sediment Control as shown below shall be implemented.
- All pipes to be blocked at the end of each day (see detail below).
- The total amount of straw bale dikes/silt fence equals 4740 L.F.



CONSTRUCTION SPECIFICATIONS

- All dikes shall be compacted by earth-moving equipment.
 - All dikes shall have positive drainage to an outlet.
 - Top width may be wider and side slopes may be flatter if desired, to facilitate crossing by construction equipment.
 - Field locations should be adjusted as needed to utilize a stabilized safe outlet.
 - Earth dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin where either the dike channel or the drainage area above the dike are not adequately stabilized.
 - Stabilization shall be: (A) in accordance with standard specifications for seed and straw mulch or straw mulch if not in seeding season, (B) flow channel as per chart below.
- | TYPE OF TREATMENT | CHANNEL GRADE | DIKE A | DIKE B |
|-------------------|---------------|---------------------------|---|
| 1. | 0.5 - 3.0% | Seed & Straw Mulch | Seed or Straw Mulch |
| 2. | 3.1 - 8.0% | Seed & Straw Mulch | Seed, Willow, or Excelsior, Sod, 2" Stone |
| 3. | 8.1 - 20.0% | Seed & Straw Mulch | Lined Rip Rap 4"-8" Stone |
| 4. | 20.1 - 20.0% | Lined Rip Rap 4"-8" Stone | Engineering Design |
- A Stone to be 2" Stone, or recycled concrete equivalent, in a layer at least 3" thick and be pressed into soil with construction equipment.
B Rip Rap to be 4"-8" in a layer at least 8" thick, pressed into soil.
C Approved equivalents can be substituted for any of the above materials.
D Periodic inspection and Required Maintenance must be provided after each rain.

EARTH DIKE DETAIL (E.D.)
NO SCALE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
DATE: 9-23-88

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE: 10-20-88

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 9-27-88

CLARK • FINEROCK & SACKETT, INC
ENGINEERS • PLANNERS • SURVEYORS

7130 MINISTREL WAY • COLUMBIA, MD 21045 • (301) 381-7200 • BALTO. • (410) 591-5544

DESIGNED PDM
DRAWN BAL YLM
CHECKED DGT
DATE FEB 1988

SEDIMENT AND EROSION CONTROL PLAN
LOTS 1-5, 55-64, 96-106, 118-142, 149-157 AND 197-221

COLUMBIA
SECTION 2 AREA 1 and SECTION 2 AREA 2
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE 1" = 30'
DRAWING 13 OF 13
JOB NO. 88-003
FILE NO. 88-003SE

FOR THE RYLAND GROUP INC - COLUMBIA DIVISION
7130 Ministrel Way, Suite 200
Columbia, Maryland 21045

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 of Engineer: *Jeffrey L. Schwab*
Date: 5-2-88