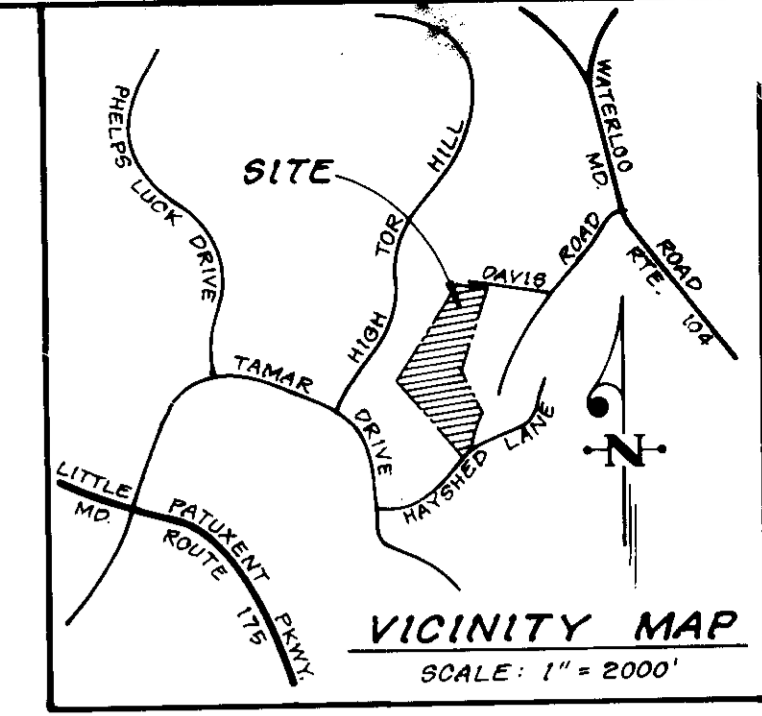


**LEGEND**

Contour Interval 2 Ft.  
 Existing Contour 450  
 Proposed Contour 450  
 Spot Elevation +442  
 Direction of Drainage  
 Walk-Out Basement



**NOTES**

**Building Restrictions**  
 Front: 20' unless otherwise shown  
 Rear: 30'  
 Side: 7.5'

**GENERAL NOTES**

- All coordinates are based on The Maryland State Grid System, Station Numbers 2743004 and 2743000.
- Total Number of Lots: 00
- The Total Area included in this plan is 14.5232 Acres.
- All roadways are public and existing.
- Any damage to county owned rights-of-way shall be corrected at the developer's expense.
- The contractor or developer shall contact the Construction Inspection/Survey Division, 24 hours in advance of commencement of work at 092-2417 or 092-2418.
- The property shown hereon is zoned R-12. Maximum building coverage is 30% per lot.

**SPECIAL NOTES**

Approved Road Construction Plans shall be used for all Public Utilities.  
 Public Water and Sewer shown for reference only. For more detailed information - see Water and Sewer Plans Contract No. 24-1527-D.  
 The water and sewer house connections not included in a "Developer's Agreement" shall conform to Howard County Plumbing Code. The on-site WHC shall be 1" copper and the SHC shall be 4" iron.  
 Stormwater Management provided for under Contract F-80-203.

**ADDRESS CHART**

Lot No.	STREET	ADDRESS
2	Open Meadow Way	
3	"	
4	"	
5	"	
6	Open Meadow Way	
7	Meadowsweet Court	
8	"	
9	Meadowsweet Court	
21	Goldenstraw Lane	
22	Goldenstraw Lane	
23	Open Meadow Way	
24	"	
25	"	
26	"	
27	"	
28	Open Meadow Way	



2-24-87

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER  
 DATE 4-22-87

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 PLANNING DIRECTOR  
 DATE 4-23-87

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR  
 DATE 4-15-87

Reviewed for HOWARD COUNTY S.C.D. and meets Technical Requirements  
 Name  
 Signature  
 Date  
 U.S. Soil Conservation Service

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

**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."

Signature of Developer/Builder  
 DATE 3-30-87

**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 3-30-87

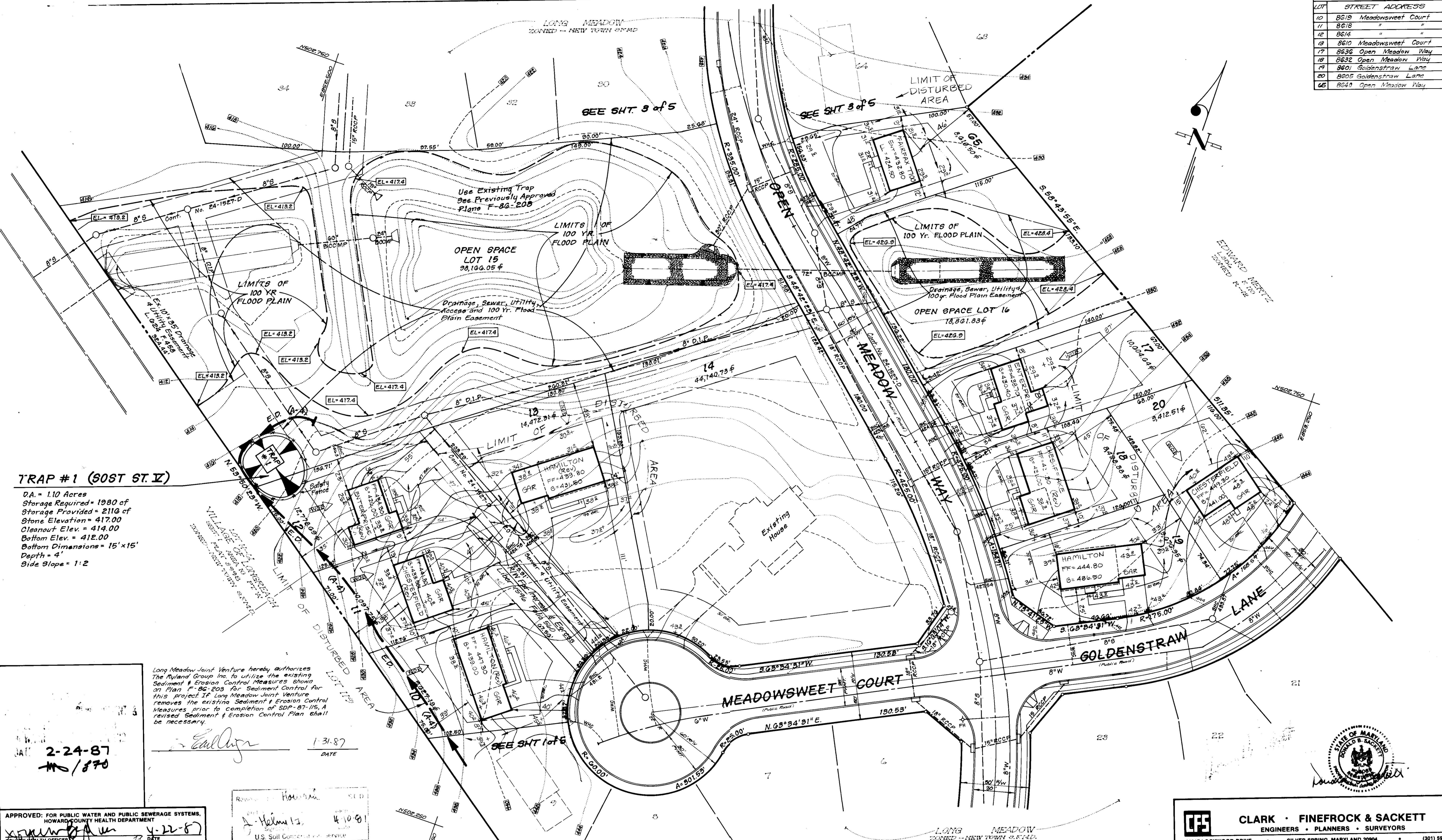
OWNER: GEORGE C. DEERING 5838 34th Meadow Lane Columbia, MD	SUBDIVISION NAME: LONG MEADOW	SECTION: 1	LOTS OR PARCEL: 2-19, 17-28 & 30-65
PLAT # or L/F: 2008, 7009, 7010	BLOCK #: 6	ZONE: R-12	TAX/ZONE MAP: 3G
WATER CODE: 60"	BEWER CODE: 5335"00		

<b>CLARK · FINEFROCK &amp; SACKETT</b> ENGINEERS · PLANNERS · SURVEYORS		(301) 593-3400
DESIGNED: CMS	<b>SITE DEVELOPMENT PLAN AND BEDIMENT AND EROSION CONTROL PLAN</b>	SCALE: 1" = 30'
DRAWN: LAI, LJG	<b>LOTS 2-19, 17-28 and 30-65 LONG MEADOW SECTION ONE</b>	DRAWING: 1 of 5
CHECKED: CMS	6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO.: 86-092
DATE: December 1986	FOR: The Ryland Group, Inc. (Columbia Division) 7130 Minnetrel Way, Suite 215 Columbia, Maryland 21045	FILE NO.: 86-092

SDP-87-115



LOT	STREET ADDRESS
10	8618 Meadowsweet Court
11	8618 " "
12	8614 " "
13	8610 Meadowsweet Court
17	8636 Open Meadow Way
18	8632 Open Meadow Way
19	8601 Goldenstraw Lane
20	8605 Goldenstraw Lane
25	8649 Open Meadow Way



**TRAP #1 (SOST ST. V)**  
 D.A. = 1.10 Acres  
 Storage Required = 1980 cf  
 Storage Provided = 2110 cf  
 Stone Elevation = 417.00  
 Cleanout Elev. = 414.00  
 Bottom Elev. = 412.00  
 Bottom Dimensions = 15' x 15'  
 Depth = 4'  
 Side Slope = 1:2

Long Meadow Joint Venture hereby authorizes The Ryland Group Inc. to utilize the existing Sediment & Erosion Control Measures shown on Plan F-86-203 for Sediment Control for this project. If Long Meadow Joint Venture removes the existing Sediment & Erosion Control Measures prior to completion of SDP-87-115, A revised Sediment & Erosion Control Plan shall be necessary.

2-24-87  
 M/870

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,  
 HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: [Signature] DATE: 4-22-87  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 PLANNING DIRECTOR: [Signature] DATE: 4-23-87  
 ACTING: [Signature] DATE: 4-27-87  
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: [Signature] DATE: 4-16-87  
 CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 4-15-87

Reviewed: [Signature] S.D.D.  
 A. Helms, 4-10-87  
 U.S. Soil Conservation Service

[Signature] 4-11-87  
 APPROVED DATE

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

WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF EROSION CONTROL AND SEDIMENT CONTROL AND THAT ALL EROSION CONTROL AND SEDIMENT CONTROL MEASURES WILL BE MAINTAINED AND REPAIRED AS NECESSARY TO PROTECT THE NATURAL RESOURCES AND PREVENT POLLUTION OF SURFACE AND GROUNDWATER. THIS CERTIFICATE IS VALID ONLY IF THE DEVELOPER INSPECTS THE SITE PERIODICALLY BY THE HOWARD SOIL CONSERVATION DISTRICT OR ITS AUTHORIZED AGENTS, AS REQUIRED NECESSARY.

[Signature] 12-17-86  
 Signature of Developer/Builder DATE

ENGINEERS CERTIFICATE  
 I hereby certify that the plans shown on this drawing were prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer in the State of Maryland. I am a member of the National Society of Professional Engineers and the Maryland Society of Professional Engineers. I was prepared in accordance with the requirements of the Howard Soil Conservation District.

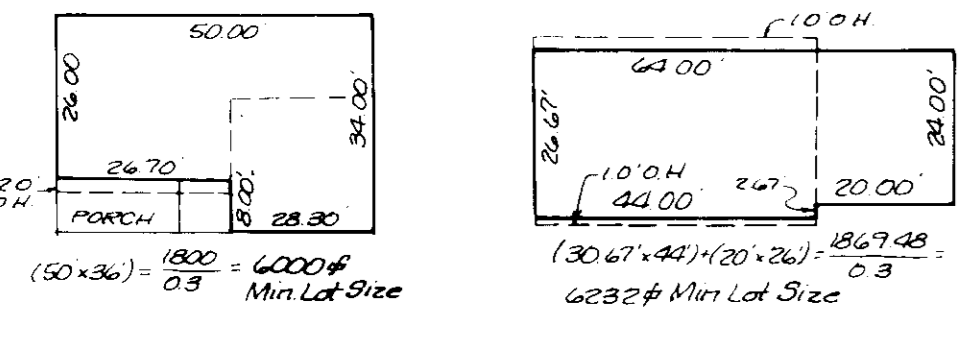
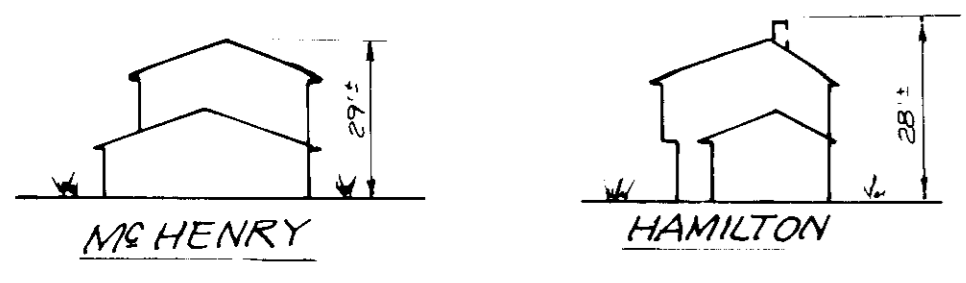
[Signature] 12-17-86  
 G. NELSON CLARK DATE

DIVISION: George C. Deering  
 5200 5th Meadow Lane  
 Columbia, Maryland

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

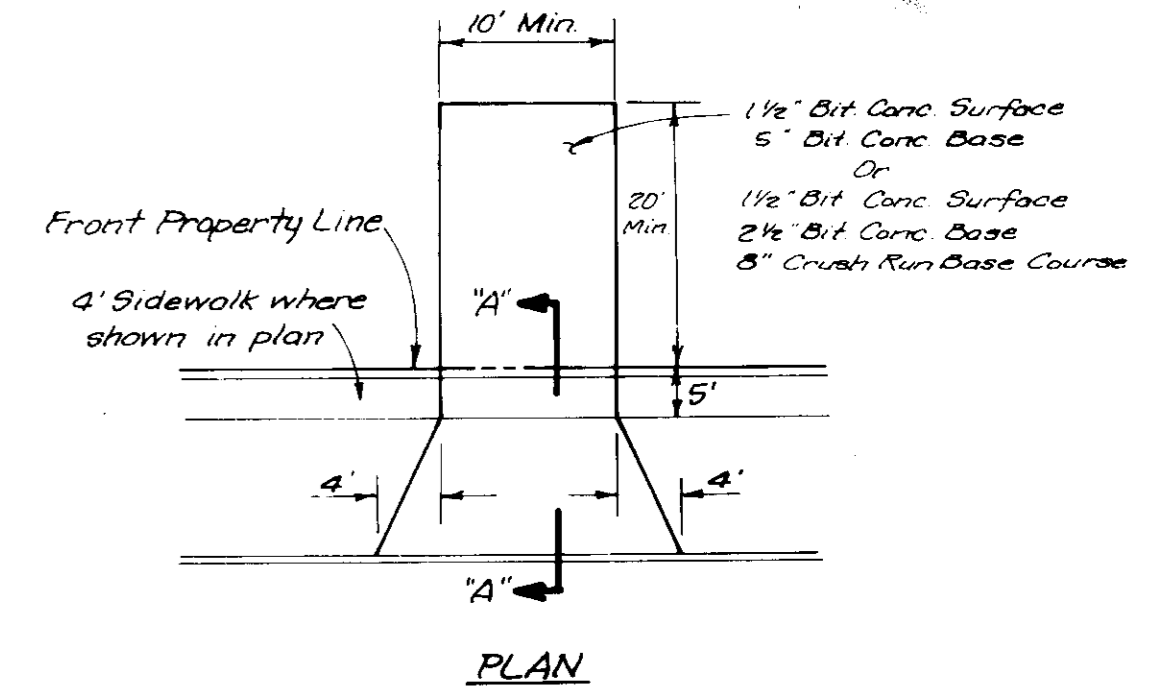
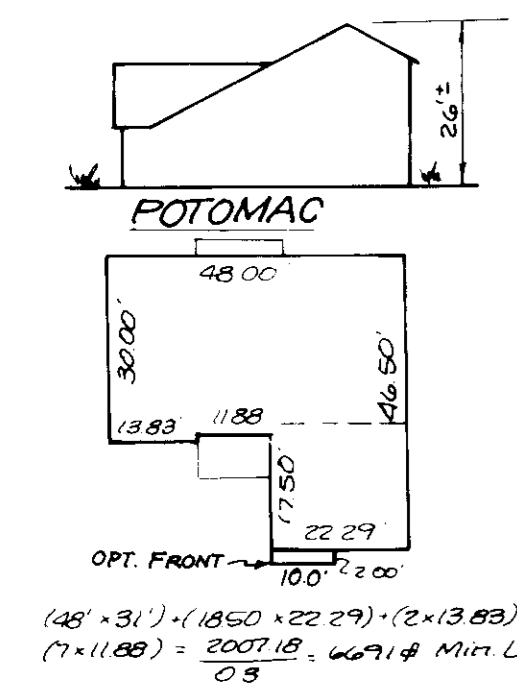
DESIGNED CMS/DT	<b>SITE DEVELOPMENT PLAN AND SEDIMENT AND EROSION CONTROL PLAN</b> LOTS 2-13, 17-28 and 30-65 <b>LONG MEADOW</b> SECTION ONE 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: The Ryland Group, Inc. (Columbia Division) 7130 Marshfield Way, Suite 215 Columbia, Maryland 21035	SCALE 1" = 30'
DRAWN LAI LJG		DRAWING 2 of 5
CHECKED CMS/DT		JOB NO. 86-092
DATE DECEMBER 1986		FILE NO. 86-092



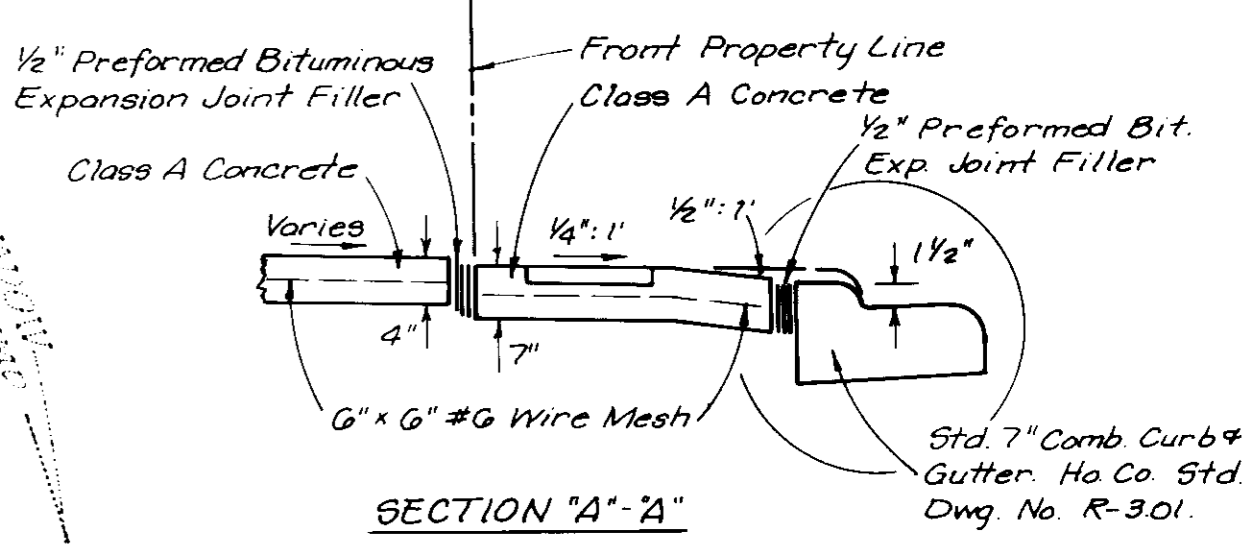


**TYPICAL HOUSES**

Scale 1"=30'  
(Note: All units have 1 roof eave front + rear)



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

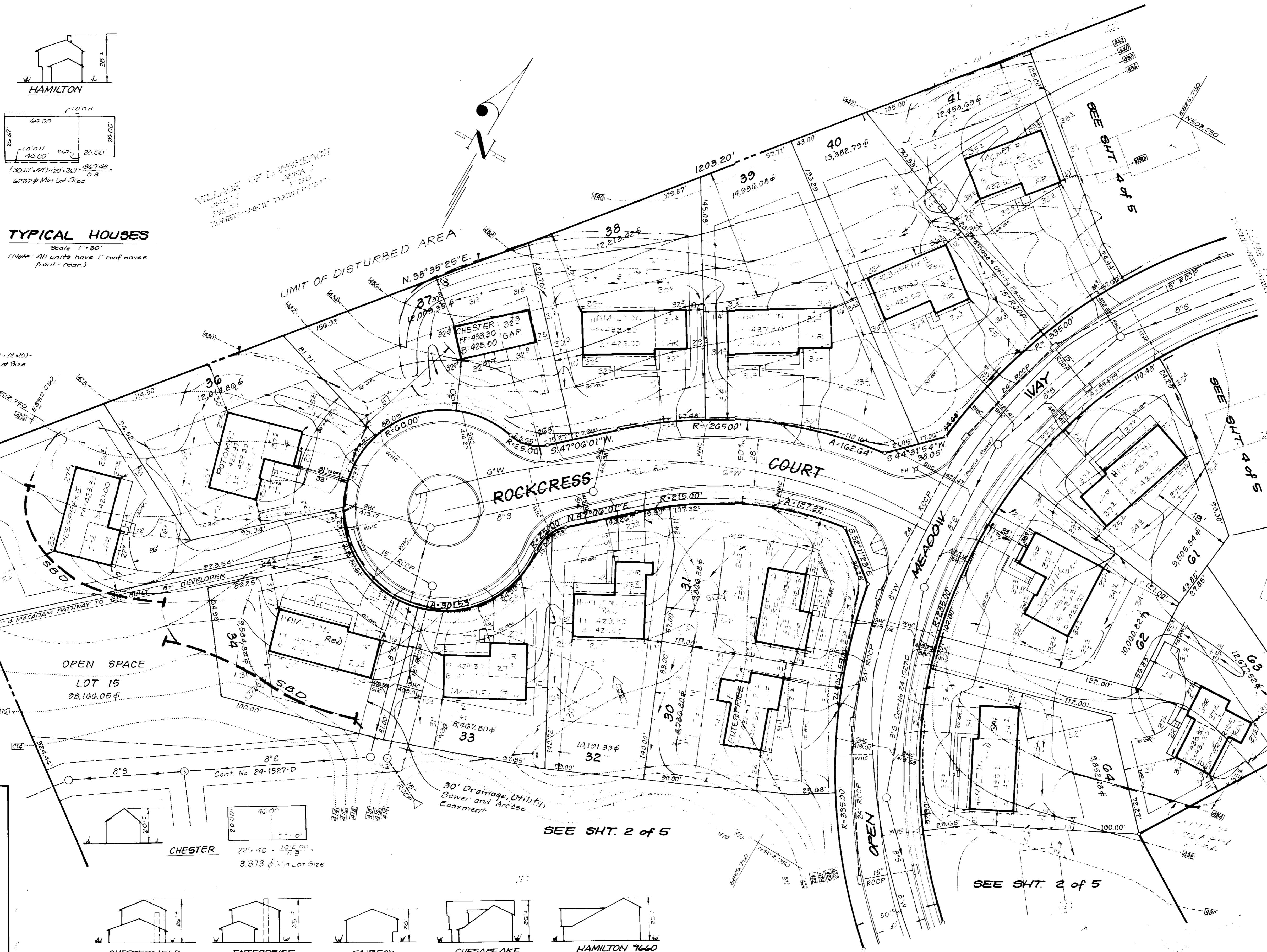


**DRIVEWAY ABUTTING STD. 7" & MODIFIED COMB. CURB AND GUTTER**

No Scale

Reviewed for... H. K. KAS... S.C.D.  
and meets Technical Requirements  
Signature: H. K. KAS... Date: 4-10-87  
U.S. Soil Conservation Service

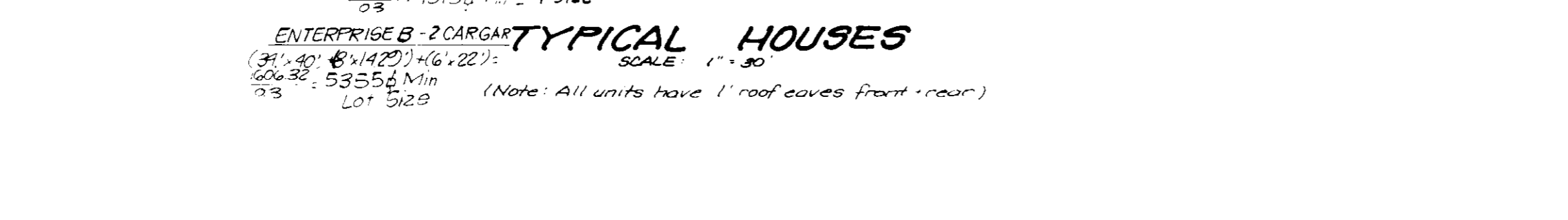
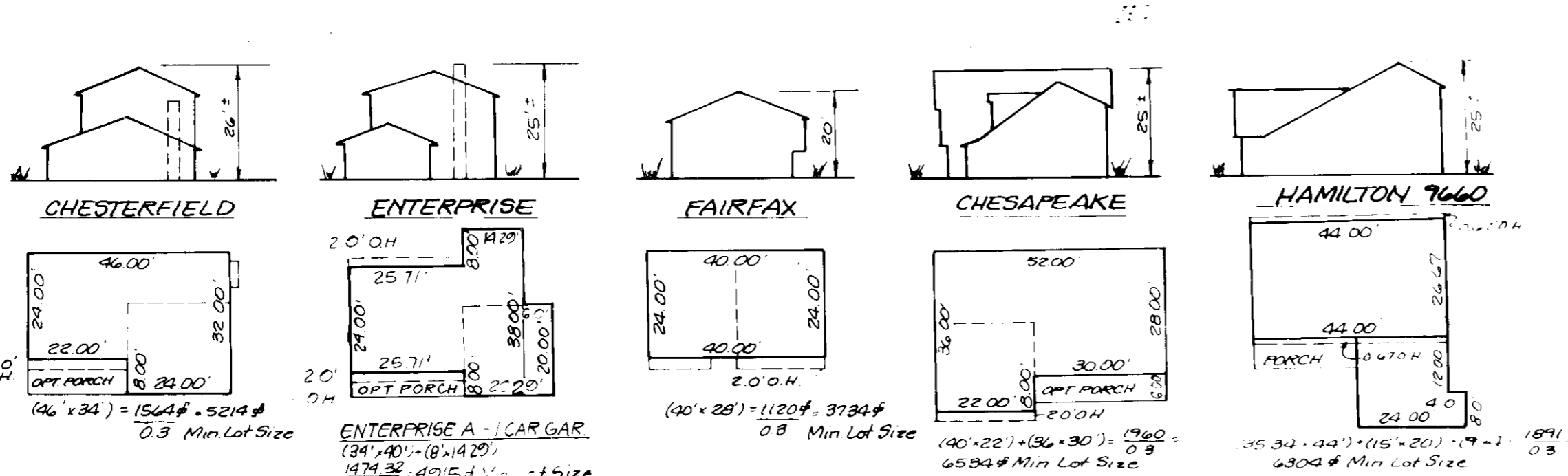
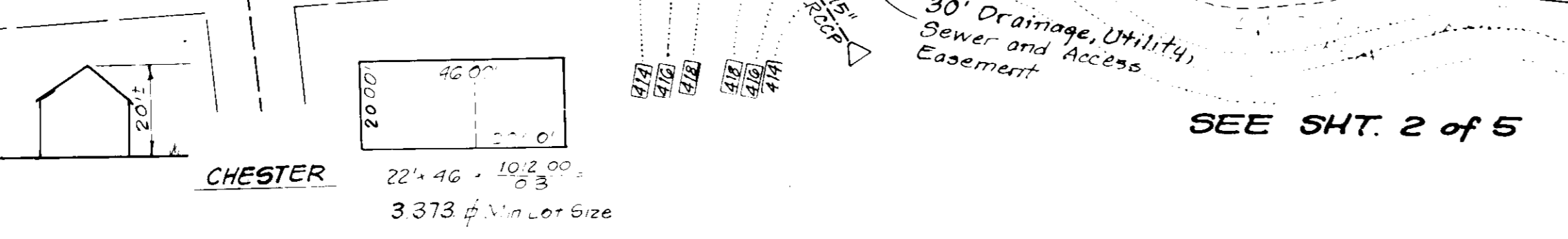
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.



LOT	STREET ADDRESS
61	8656 Open Meadow Way
62	8652 " " "
63	8648 " " "
64	8644 " " "
30	8645 " " "
31	8649 Open Meadow Way
32	8605 Rockcross Court
33	8602 " " "
34	8613 " " "
36	8616 " " "
34	8612 " " "
37	8608 " " "
34	8604 " " "
39	8600 Rockcross Court
40	8659 Open Meadow Way
41	8623 " " "
42	8627 Open Meadow Way

DIVISION OF LAND DEVELOPMENT  
HOWARD COUNTY, MARYLAND  
DATE: 2-24-87  
M/878

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
DATE: 4-22-87  
APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING  
DATE: 4-23-87  
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC WORKS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DATE: 4-15-87



**DEVELOPER'S/BUILDER'S CERTIFICATE**

I 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: M. S. S... 3-30-87  
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: G. NELSON 3-30-87  
Date

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

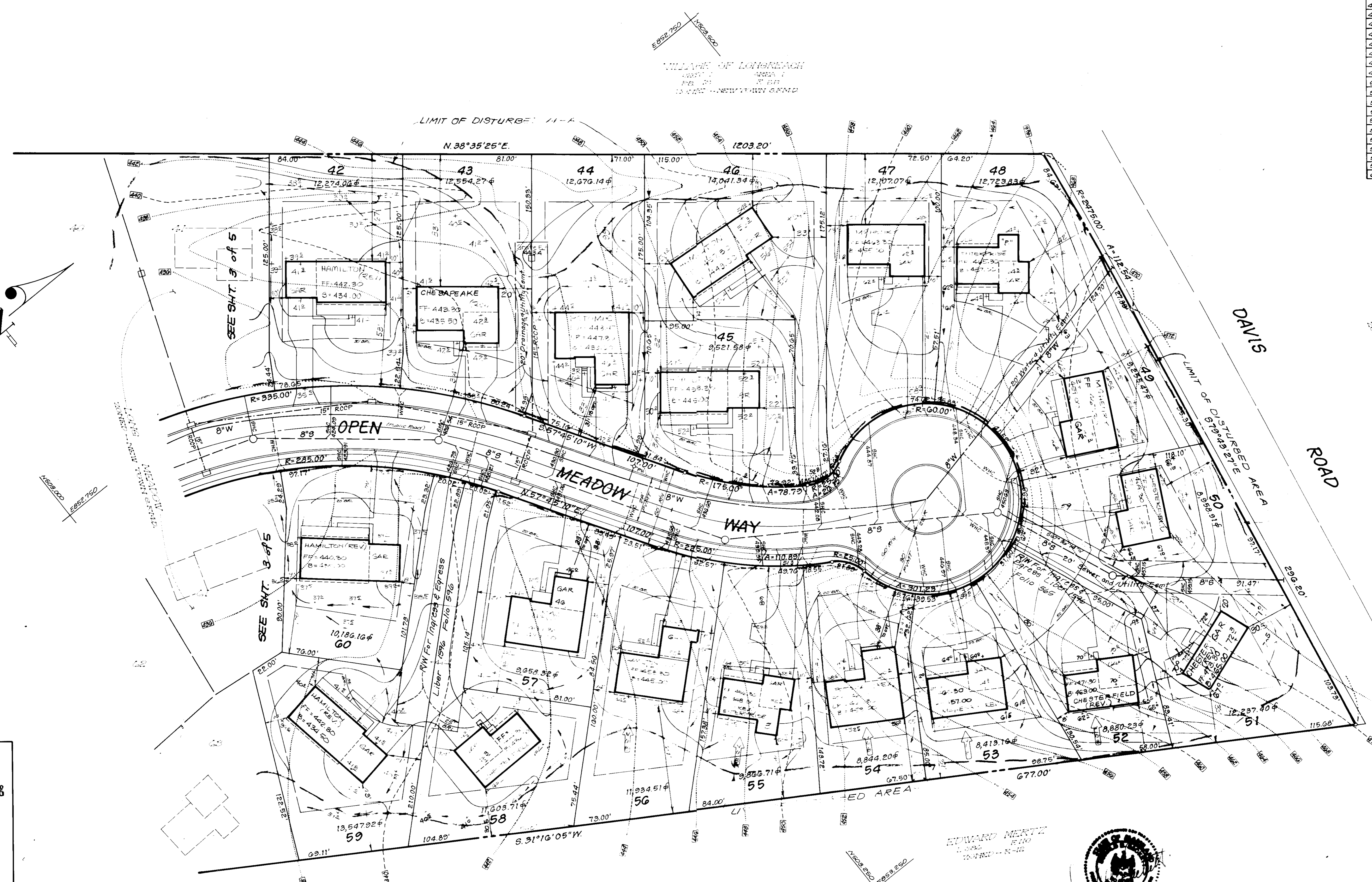
DESIGNED: CM9/DT  
DRAWN: LA1/LJG  
CHECKED: CM9/DT  
DATE: DECEMBER 1986

**SITE DEVELOPMENT PLAN AND SEDIMENT AND EROSION CONTROL PLAN**  
SCALE: 1"=30'  
DRAWING: 3 of 5  
JOB NO.: 86-092  
FILE NO.: 86-092X

SECTION ONE  
6th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
FOR: The Ryland Group, Inc. (Columbia Division)  
7130 Minstrel Way, Suite 215  
Columbia, Maryland 21045



LOT	STREET ADDRESS
42	8657 Open Meadow Way
43	8671 " " "
44	8675 " " "
45	8679 " " "
46	8683 " " "
47	8687 " " "
48	8691 " " "
49	8695 " " "
50	8698 Open Meadow Way
51	8694 " " "
52	8690 " " "
53	8686 " " "
54	8682 " " "
55	8678 " " "
56	8674 " " "
57	8670 " " "
58	8668 " " "
59	8664 " " "
60	8660 Open Meadow Way



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,  
 HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 2-24-87  
 1/278

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,  
 HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER [Signature] DATE 4-22-87

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 PLANNING DIRECTOR [Signature] DATE 4-23-87

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
 [Signature] DATE 4-23-87

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,  
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR [Signature] DATE 4-15-87

CHIEF BUREAU OF ENGINEERING [Signature] DATE 4-15-87

Reviewed for HOWARD S.C.D.  
 Name  
 and meets Technical Requirements  
 Signature  
 U.S. Soil Conservation Service

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

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."  
 Signature of Developer/Builder [Signature] DATE 3-30-87

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 has been prepared in accordance with the requirements of the Howard Soil Conservation District.  
 Signature of Engineer [Signature] DATE 3-30-87

OWNER: George C. Dearing  
 5838 3411 Meadow Lane  
 Columbia, Maryland



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

DESIGNED CMS DT	SITE DEVELOPMENT PLAN AND SEDIMENT AND EROSION CONTROL PLAN LOTS 2-13, 17-28 and 30-65 LONG MEADOW SECTION ONE 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: The Ryland Group, Inc. (Columbia Division) 7130 Munster Way, Suite 215 Columbia, Maryland, 21045	SCALE 1" = 30'
DRAWN LAI LWG		DRAWING 4 of 5
CHECKED CMS DT		JOB NO. 84-092
DATE DECEMBER 1986		FILE NO. 84-092A



**SEDIMENT CONTROL NOTES**

- 1) 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)
- 2) 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.
- 3) Following initial soil disturbance or disturbance, 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.
- 4) 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.
- 5) 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. 31) soil (Sec. 32), temporary seeding (Sec. 30) 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.
- 6) 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.
- 7) Site Analysis:  
 Total Area of Site: 14.5232 Acres  
 Area Disturbed: 12.52 Acres  
 Area to be roofed or paved: 5.09 Acres  
 Area to be vegetatively stabilized: 0.09 Acres  
 Total Cut: \_\_\_\_\_ Cu. yds  
 Total Fill: \_\_\_\_\_ Cu. yds  
 Offsite waste/borrow area location: N/A
- 8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- 9) Additional sediment control must be provided, if deemed necessary by the Howard County DFW sediment control inspector.
- 10) 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.
- 11) If houses are to be constructed on an "As-Sold" basis, at Random, Single Lot Sediment Control as shown below shall be implemented.
- 12) All pipes to be blocked at the end of each day (see detail below). N/A
- 13) The total amount of straw bale dikes/silt fence equals 270 L.F.

**CONSTRUCTION SEQUENCE**

No. of Days	Activity
5	1. Obtain Grading Permit.
10	2. Clean existing sediment basin in accordance with F-86-203, install all other required Sediment and Erosion control devices as shown on plan and stabilize.
60	3. Excavate for foundations, rough grade and temporarily stabilize.
200	4. Construct structures, sidewalks and driveways.
60	5. Final Grade and stabilize in accordance with standards and specifications.
14	6. Upon approval of sediment Control Inspector, remove all sediment and erosion controls and convert sediment basin to a Stormwater Management Facility as follows: a. Pump out impounded water. b. Remove inlet blocking and sediment and dispose as directed by the Sediment Control Inspector. c. Restore basin to original dimensions in accordance with F-86-203. d. Stabilize all disturbed areas as per the permanent seeding notes.

APPROVED: 2-24-87  
 [Signature]

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 DATE: 4-22-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 DATE: 4-23-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DATE: 4-15-87

**PERMANENT SEEDING NOTES**

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

**Seeded Preparation:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

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

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square 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).
- 2) 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.

**Maintenance -** Inspect all seeded areas and make needed repairs, replacements and reseeding.

**TEMPORARY SEEDING NOTES**

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

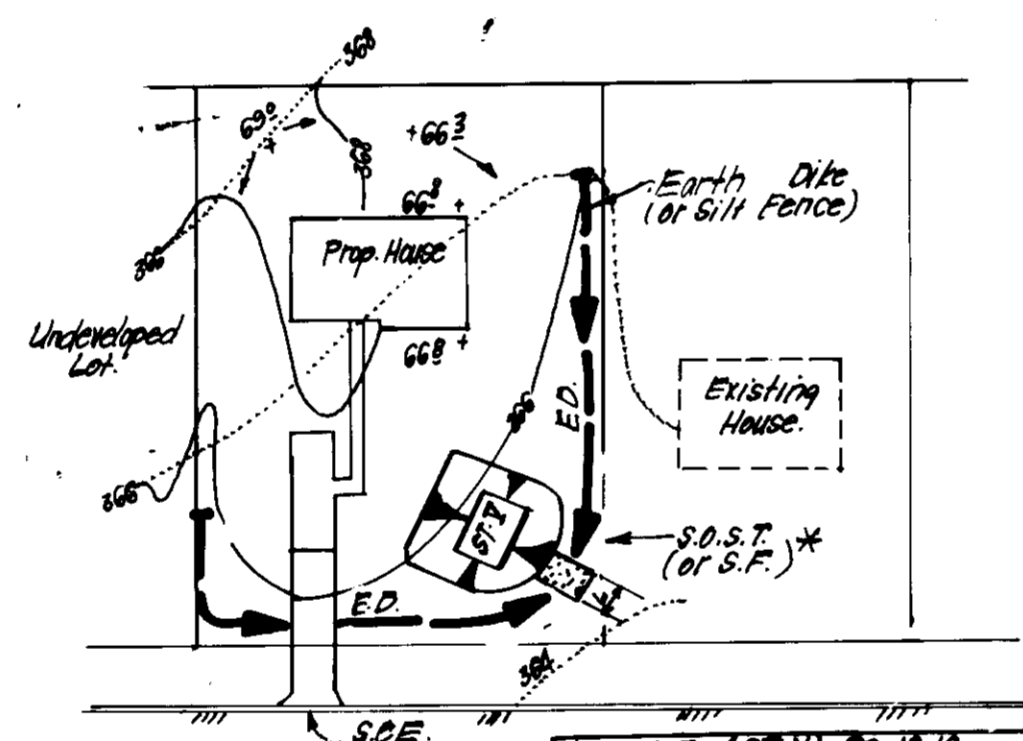
**Seeded Preparation:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

**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.



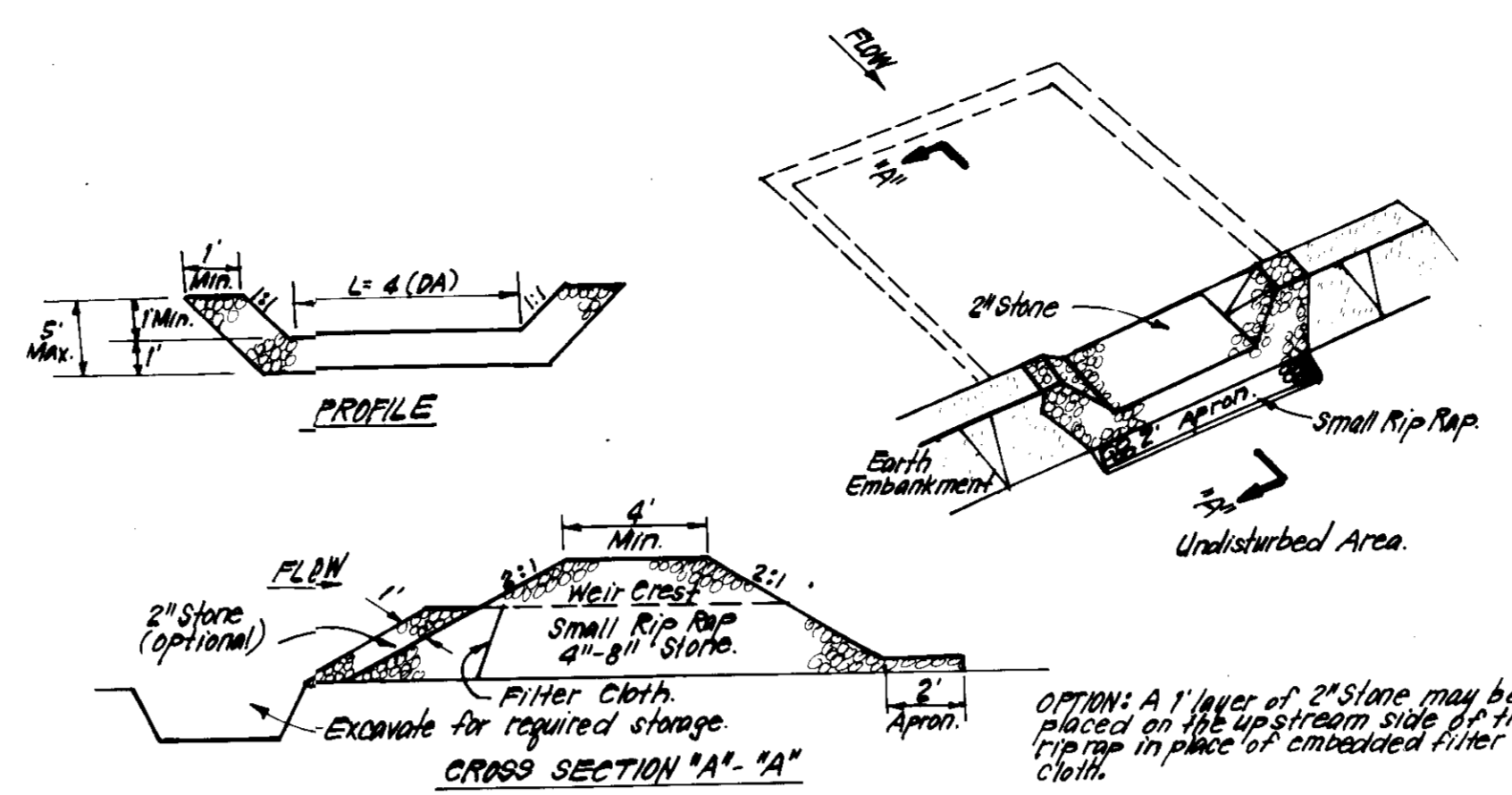
\* NOTE: Single lot detail can not be utilized if any two lots sharing common property lines are to be disturbed at the same time or on any lots showing a sediment trap.

LOT SIZE	W/AC	TRAC	LAG
Depth	2'	2'	2'
Bar Length	11'	36'	36'
Bar Width	11"	11"	11"
Bar Area	121 sq ft	1296 sq ft	1296 sq ft

\* can be adjusted in field, but bottom area must be as given or greater

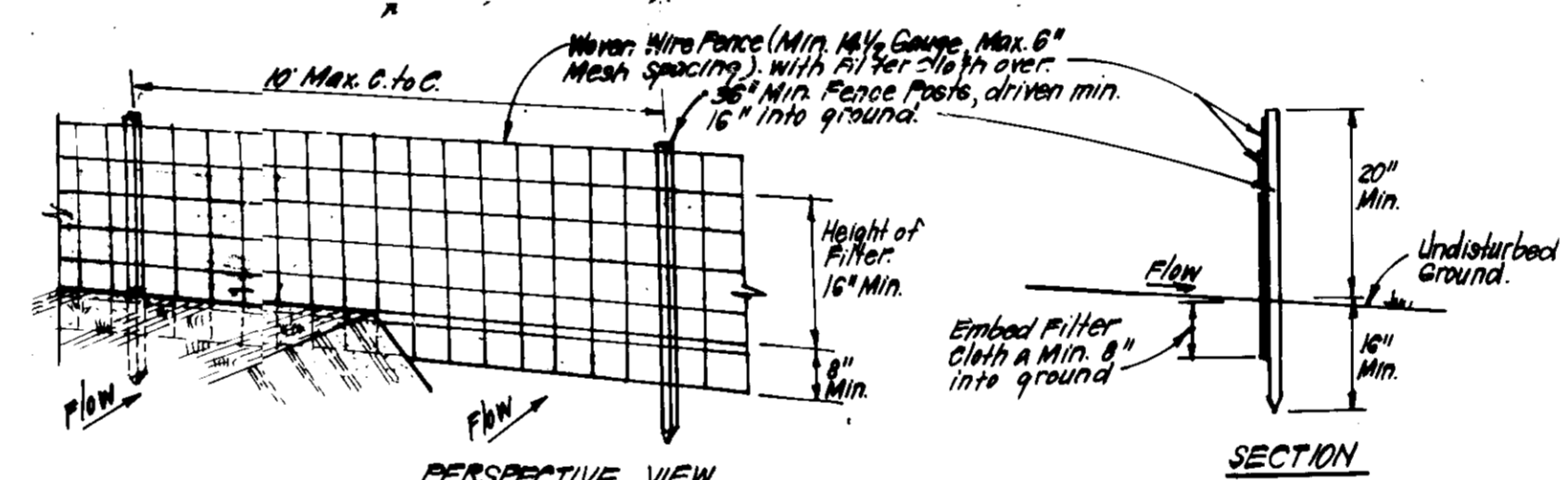
**SINGLE LOT SEDIMENT CONTROL PLAN**  
 NO SCALE

Howard  
 [Signature]  
 DATE



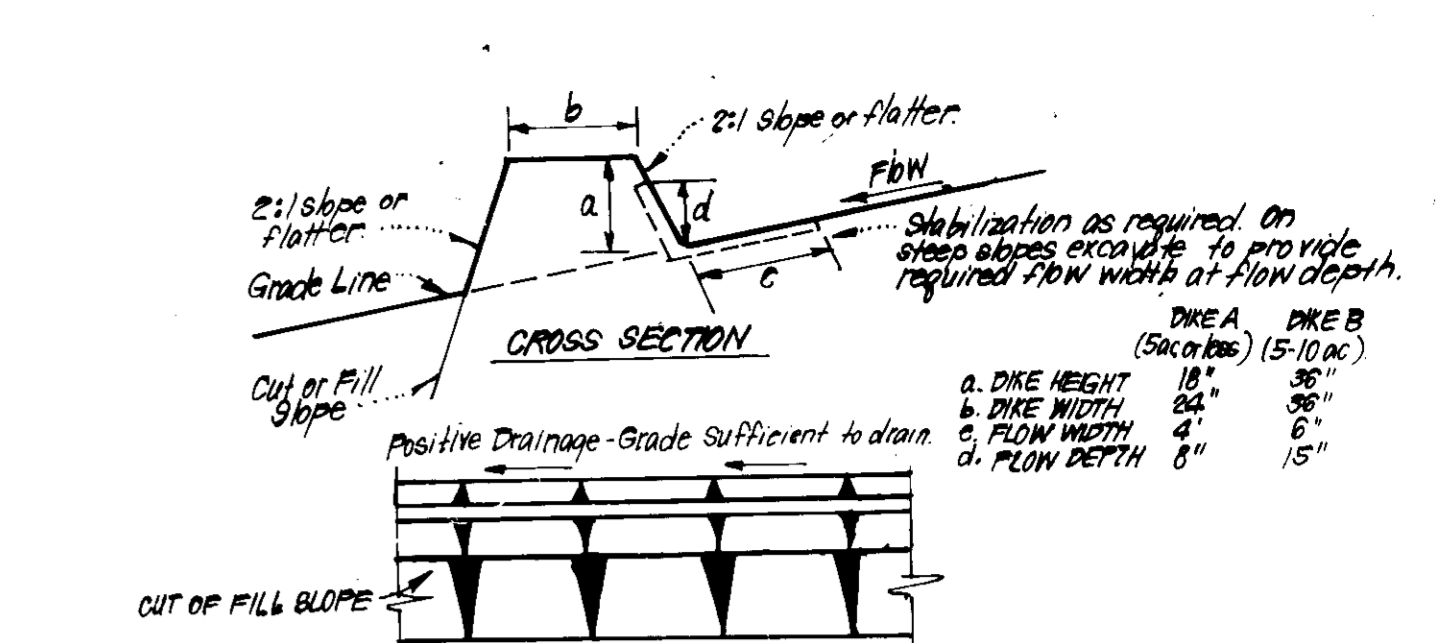
- CONSTRUCTION SPECIFICATIONS:**
1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
  2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by hand or with equipment while it is being constructed.
  3. All cut and fill slopes shall be 2:1 or flatter.
  4. The stone used in the outlet shall be small rip rap 4" to 6" 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.
  5. 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.
  6. The structure shall be inspected after each rain and repairs made as needed.
  7. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
  8. 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.) ST.V.**  
 NO SCALE



- CONSTRUCTION SPECIFICATIONS:**
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 1/2" spaced every 36" at top and mid sections.
  3. When 2 sections of filter cloth adjoin each other they shall be overlapped by 6" and folded.
  4. 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, 14 1/2 Gauge, 6" Max. Mesh Opening.  
 FILTER CLOTH: Filter Cloth, Min. 100% Stabilized, T110W or Approved Equal.  
 PREFABRICATED UNIT: Geotext, Envirofence, or Approved Equal.

**SILT FENCE DETAIL (S)**  
 NO SCALE



- CONSTRUCTION SPECIFICATIONS:**
1. All dikes shall be compacted by earth-moving equipment.
  2. All dikes shall have positive drainage to an outlet.
  3. Top width may be wider and side slopes may be flatter if desired, to facilitate crossing by construction traffic.
  4. Field location should be adjusted as needed to utilize a stabilized safe outlet.
  5. Earth dikes shall have an outlet trap 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.
  6. 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.

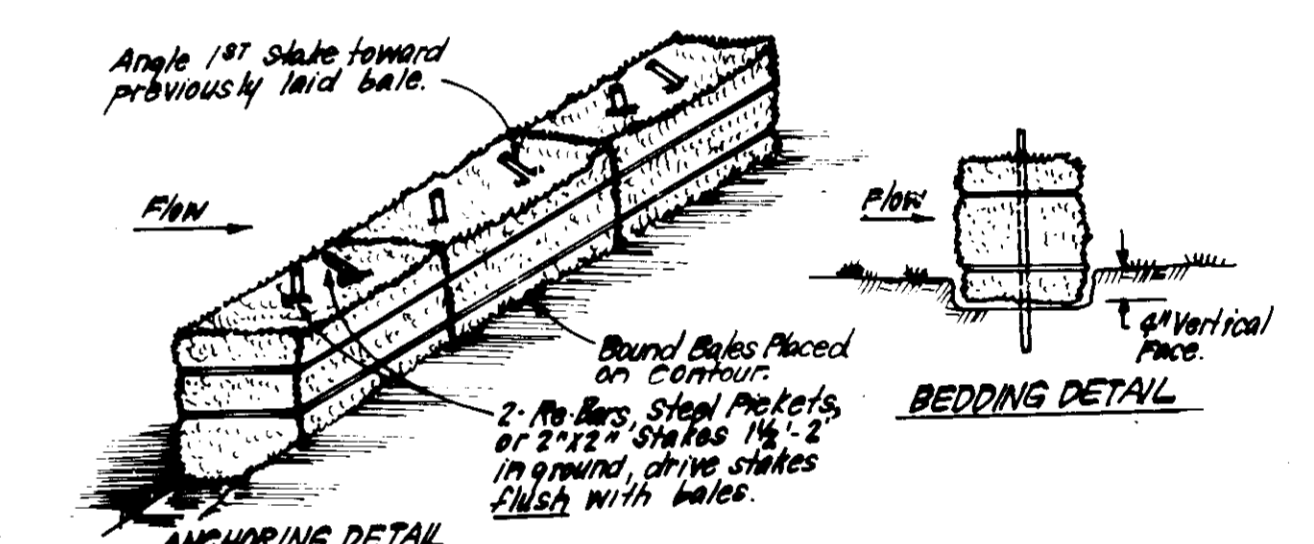
**FLOW CHANNEL STABILIZATION**

TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	0.5 - 3.0%	Seed & Straw Mulch	Seed or Straw Mulch
2	3.1 - 5.0%	Seed & Straw Mulch	Seed & Straw Mulch or Excelsior; Sed. 2" Stone
3	5.1 - 8.0%	Seed & Straw Mulch or Sed. 2" Stone	Lined Rip Rap 2"-8" Stone
4	8.1 - 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.

7. Periodic Inspection and Required Maintenance must be provided after each rain.

**EARTH DIKE DETAIL (E.D.)**  
 NO SCALE



- CONSTRUCTION SPECIFICATIONS:**
1. Bales shall be placed at the top of a slope or on the contour and in a row with ends tightly abutting the adjacent bales.
  2. Each bale shall be embedded in the soil a min. of 4" and placed so the bindings are horizontal.
  3. Bales shall be securely anchored 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.
  4. Inspection shall be frequent and repair/replacement shall be made promptly as needed.
  5. 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

**CLARK · FINEFROCK & SACKETT**  
 ENGINEERS · PLANNERS · SURVEYORS  
 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 583-3400

DESIGNED CMS DT	<b>SITE DEVELOPMENT PLAN AND BEDIMENT AND EROSION CONTROL PLAN</b> LOTS 2-13, 17-28 and 30-65 <b>LONG MEADOW</b> SECTION ONE 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: The Ryland Group, Inc. (Columbia Division) 7130 Minnetrel Way, Suite 215 Columbia, Maryland 21045	SCALE 1" = 30'
DRAWN LAI LJG		DRAWING 5 of 5
CHECKED CMS DT		JOB NO. 86-09E
DATE December 1986		FILE NO. 86-09E X

SDP-87-115

APPROVED: [Signature] DATE: 12-17-86

APPROVED: [Signature] DATE: 12-17-86

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