

REVISIONS CONT'D.

11	Rev. hse. & grad. lot 8	6-25-93
12	Rev. hse. & grad. lot 4	7-28-93
13	Rev. hse. & grad. lot 36	9-1-93
14	Rev. hse. & grad. lot 41	9-16-93

ADDRESS CHART

LOT No.	STREET ADDRESS
1	5421 Kerger Road
2	5417
3	5413 Kerger Road
4	5404 Autumn Field Court
5	5408
6	5412
7	5416
8	5420
9	5424 Autumn Field Court
10	1884 James Avenue
11	7888
12	1902 James Avenue
35	5435 Autumn Field Court
36	5421
37	5425
38	5429
39	5421
40	5417
41	5413
42	5409
43	5405
44	5401 Autumn Field Court

FLAGSTEM TABULATION

LOT NO.	LOT AREA	PIPESTEM AREA	NET LOT AREA
16	15400.00	2738.81	12,661.19
5	22832.71	2237.56	19,995.15
12	22057.38	1968.62	20,088.76
19	15262.21	2662.21	12,600.00
20	15109.37	2509.37	12,600.00
22	13450.94	850.94	12,600.00
27	18103.09	3503.09	12,600.00

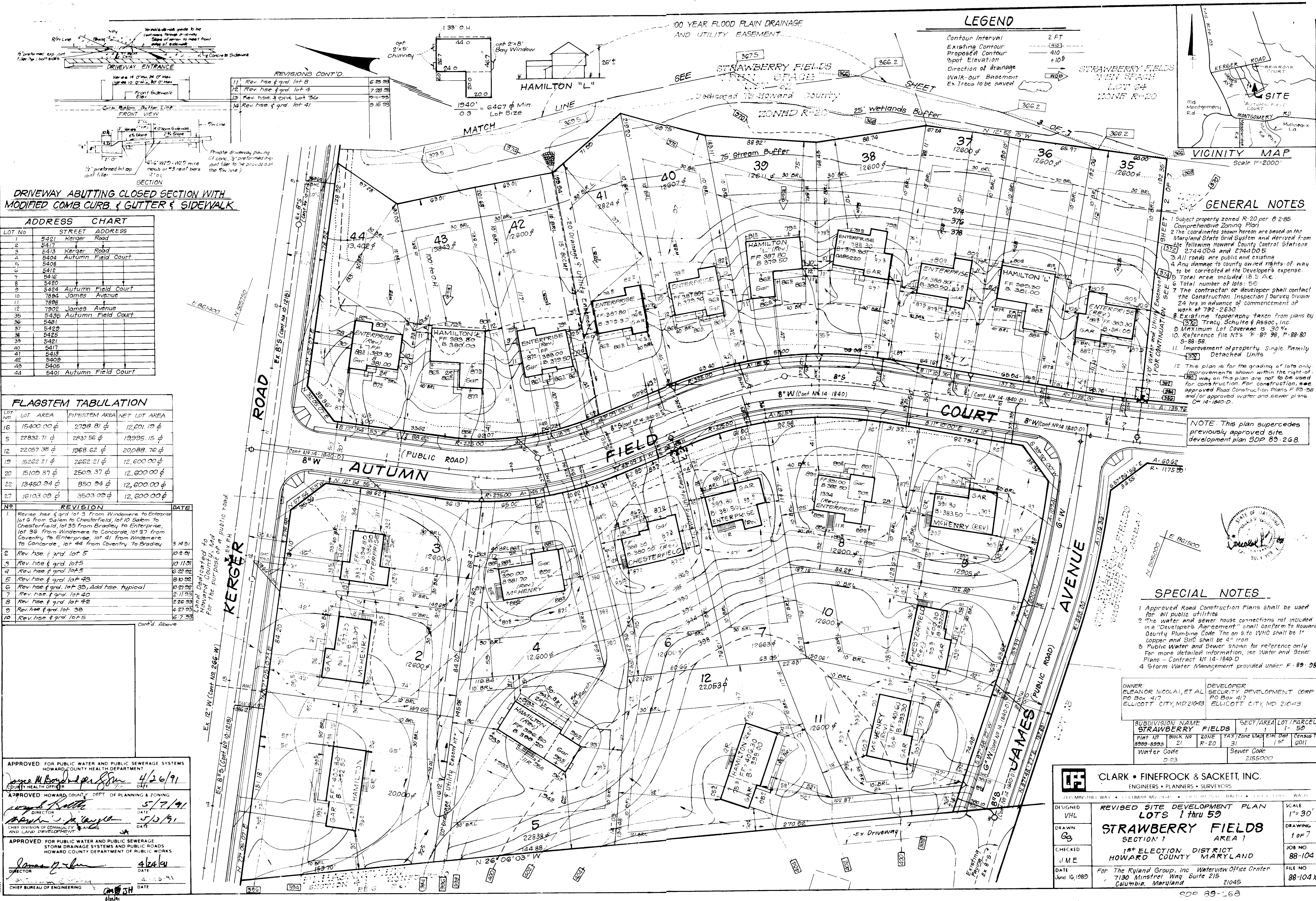
REVISION

NO.	REVISION	DATE
1	Revise hse. & grad. lot 3 from Windemere to Enterprise lot 5 from Salem to Chesterfield lot 10 Salem to Chesterfield lot 35 from Bradley to Enterprise lot 36 from Windemere to Concord lot 37 from Coventry to Enterprise lot 41 from Windemere to Concord lot 44 from Coventry to Bradley	3-14-91
2	Rev. hse. & grad. lot 5	10-2-91
3	Rev. hse. & grad. lot 5	10-11-91
4	Rev. hse. & grad. lot 5	6-22-92
5	Rev. hse. & grad. lot 40	8-10-92
6	Rev. hse. & grad. lot 39, Add hse. typical	10-27-92
7	Rev. hse. & grad. lot 40	2-11-93
8	Rev. hse. & grad. lot 42	2-26-93
9	Rev. hse. & grad. lot 38	4-27-93
10	Rev. hse. & grad. lot 5	16-7-93

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 4/26/91

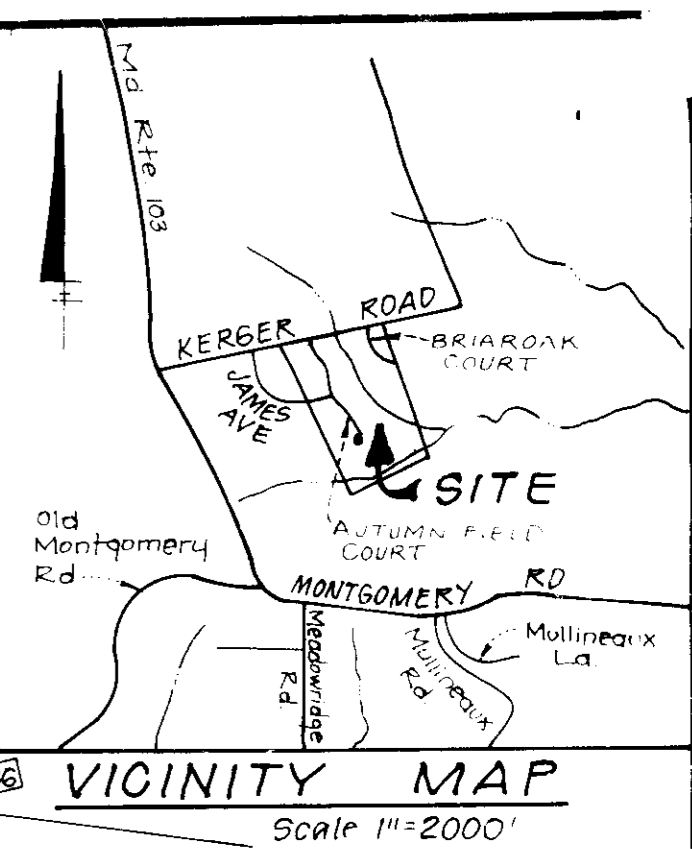
APPROVED HOWARD COUNTY DEPT. OF PLANNING & ZONING
DATE: 5/7/91

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 4/24/91



LEGEND

- Contour Interval: 2 FT
- Existing Contour: ---
- Proposed Contour: - - - -
- Spot Elevation: +10.5
- Direction of Drainage: [Arrow]
- Walk-out Basement: [Symbol]
- Ex Trees to be Saved: [Symbol]



GENERAL NOTES

- Subject property zoned R-20 per 6-2-85 Comprehensive Zoning Plan.
- The coordinates shown herein are based on the Maryland State Grid System and derived from the following Howard County Control Stations 2744004 and 2744005.
- All roads are public and existing.
- Any damage to county owned rights-of-way to be corrected at the Developer's expense.
- Total area included: 18.5 AC.
- Total number of lots: 59.
- The contractor or developer shall contact the Construction Inspection/Survey Division 24 hrs in advance of commencement of work at 792-2630.
- Existing topography taken from plans by [Symbol] Tracy, Schulte & Assoc., Inc.
- Maximum Lot Coverage is 30%.
- Reference file No's: F-89-98, P-88-80 5-88-58.
- Improvement of property Single Family Detached Units.
- This plan is for the grading of lots only. Improvements shown within the right-of-way on this plan are not to be used for construction. For construction, see approved Road Construction Plans F-89-98 and/or approved water and sewer plans C-14-1840-D.

NOTE: This plan supercedes previously approved site development plan SDP 89-268.

SPECIAL NOTES

- Approved Road Construction Plans shall be used for all public utilities.
- 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 SHC shall be 4" iron.
- Public Water and Sewer shown for reference only. For more detailed information, see Water and Sewer Plans - Contract No 14-1840-D.
- Storm Water Management provided under F-89-98.

OWNER: ELEANOR NICOLAI, ET AL
PO Box 417
ELLICOTT CITY, MD 21043

DEVELOPER: SECURITY DEVELOPMENT CORP
PO Box 417
ELLICOTT CITY, MD 21043

SUBDIVISION NAME	SECT/AREA	LOT/PARCEL
STRAWBERRY FIELDS	1	1-59
PLAT No	Block No	Zone
9989-8993	21	R-20
Water Code	Sewer Code	
0-03	2155000	

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

DESIGNED: VHL
DRAWN: Gg
CHECKED: JME
DATE: June 16, 1989

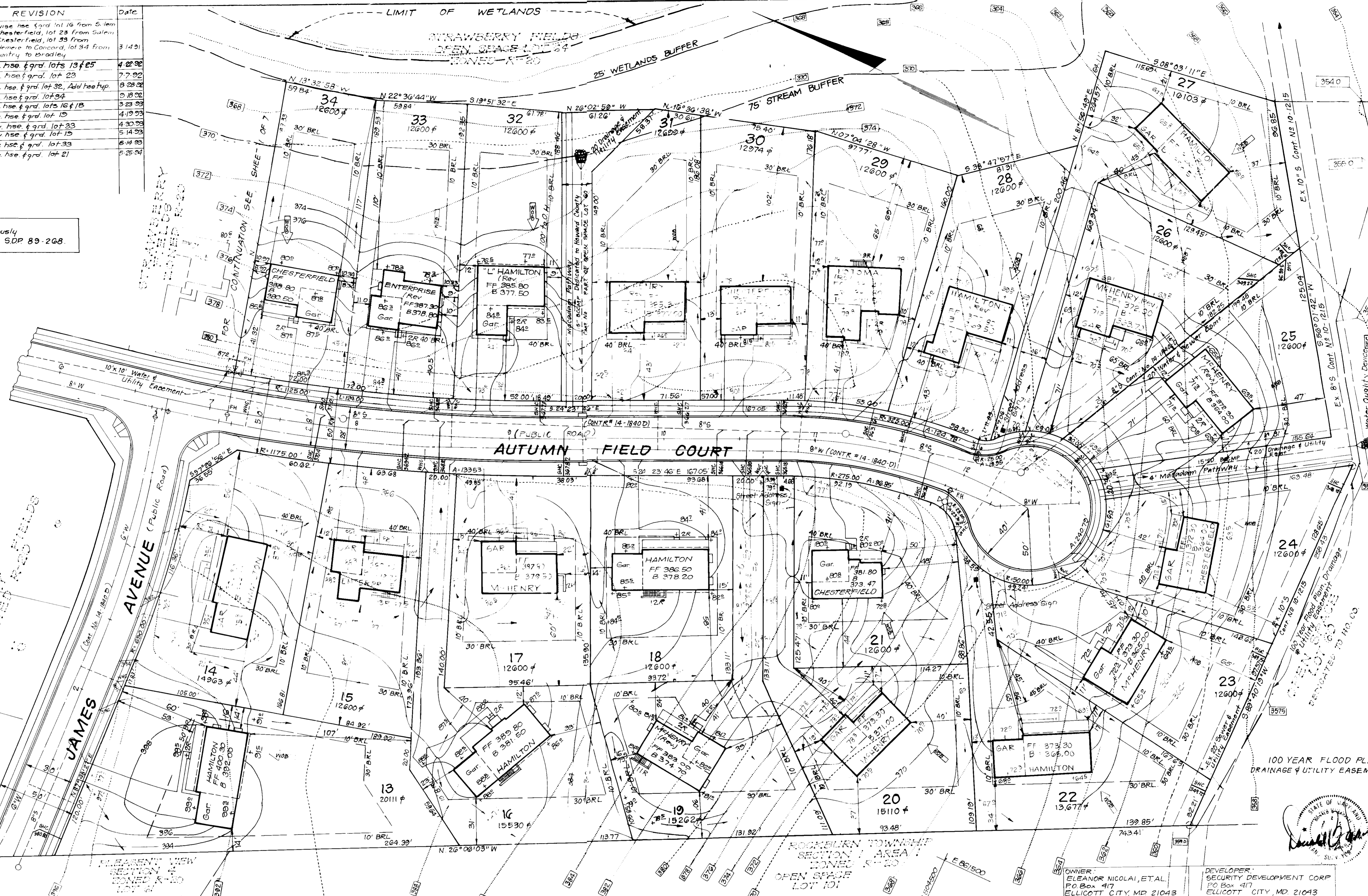
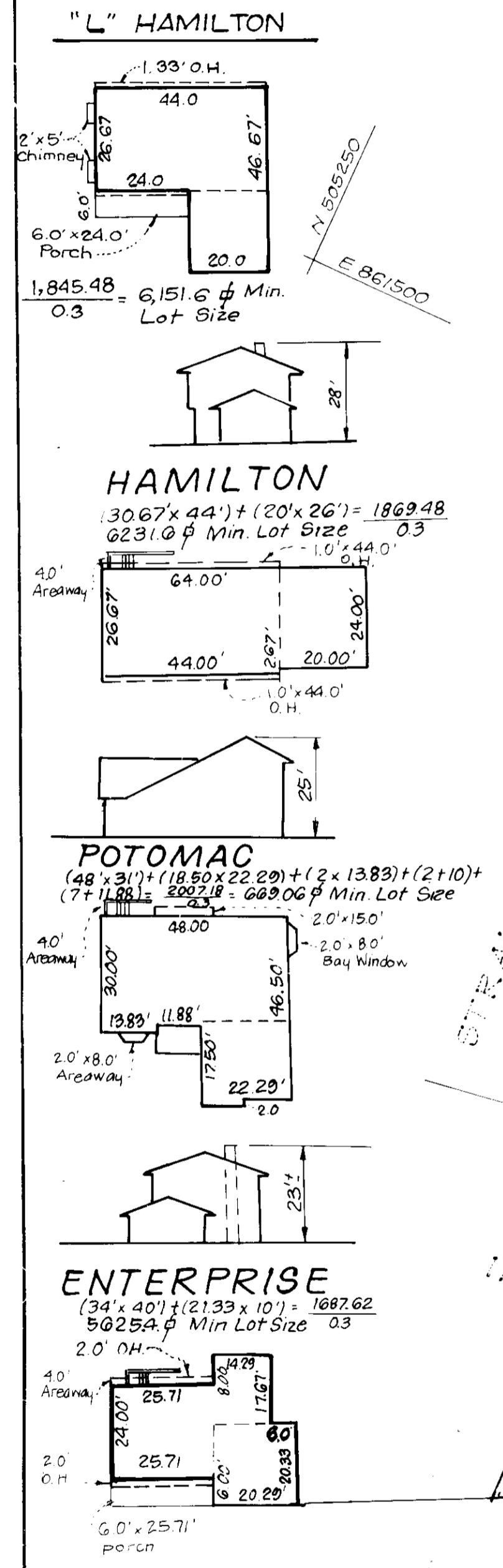
REVISED SITE DEVELOPMENT PLAN
LOTS 1 thru 59
SECTION 1 AREA 1
1ST ELECTION DISTRICT
HOWARD COUNTY MARYLAND

SCALE: 1"=30'
DRAWING: 1 OF 7
JOB NO: 88-104
FILE NO: 88-104 X

For The Ryland Group, Inc. Interview Office Center
7130 Minstrel Way Suite 215
Columbia, Maryland 21045

LOT NO.	STREET ADDRESS	ART	REVISION	Date
12	7897 James Avenue		Revise hse & grd lot 16 from Salem to Chesterfield, lot 23 from Salem to Chesterfield, lot 33 from Wicomico to Concorde, lot 34 from Concorde to Bradley	3/14/91
14	7893			
15	5438			
16	5442			
17	5446			
18	5450			
19	5454			
20	5458 James Avenue			
21	5462 Autumn Field Court			
22	5466			
23	5470			
24	5474			
25	5478			
26	5472			
27	5476			
28	5471			
29	5467			
30	5463			
31	5459			
32	5455			
33	5451			
34	5439 Autumn Field Court			

NOTE: This plan supercedes previously approved site development plan S.D.P. 89-268.

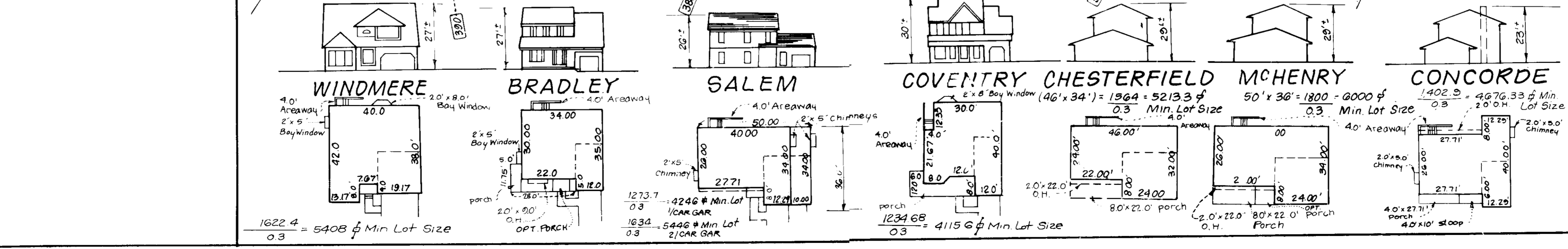


APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 HOWARD COUNTY HEALTH DEPARTMENT
 James M. [Signature] 4/30/91
 COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 [Signature] 5/12/91
 DIRECTOR

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 James P. [Signature] 4/24/91
 DIRECTOR

CHIEF BUREAU OF ENGINEERING [Signature] 4-23-91



OWNER: ELEANOR NICOLAI, ET AL.
 PO Box 417
 ELLICOTT CITY, MD 21043

DEVELOPER: SECURITY DEVELOPMENT CORP.
 PO Box 417
 ELLICOTT CITY, MD 21043

CLARK • FINEPROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 • BALTO. • (301) 621-8100 • WASH.

DESIGNED: VHL
 DRAWN: GS
 CHECKED: JME.
 DATE: June 16, 1990

REVISOR: JME.
 DATE: 4/23/91

DESIGNED SITE DEVELOPMENT PLAN
 LOTS 1-59

SCALE: 1"=30'

DRAWING: 2 of 7

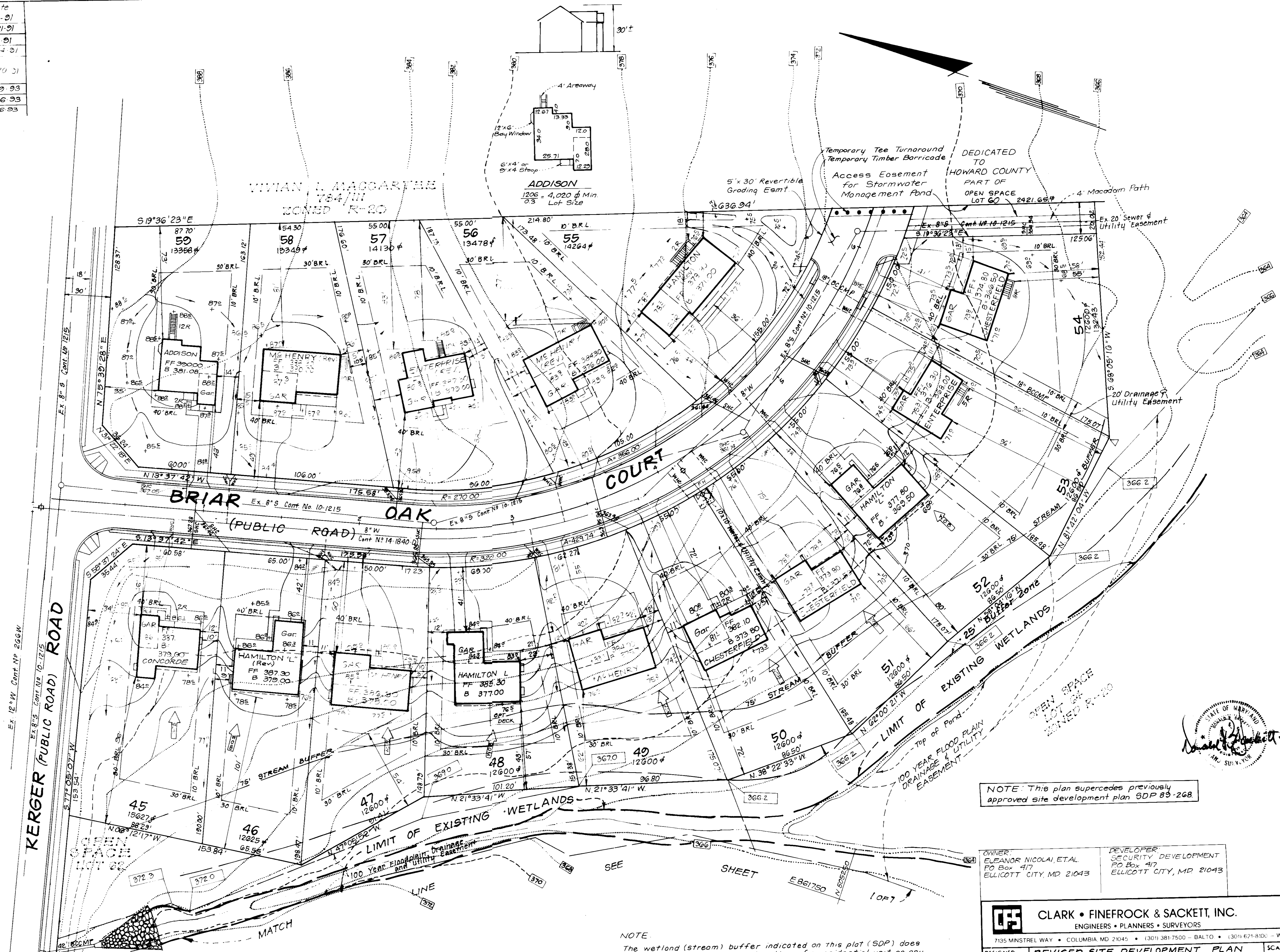
JOB NO: 88-104

FILE NO: 88-104 X

FOR: The Ryland Group, Inc. Waterview Office Center
 7130 Minstrel Way Suite 215
 Columbia, Maryland 21045

No.	Revision	Date
1	Revised Hse Type & Grd., Lot 52, From Salem to Hamilton "L"	1-2-91
2	Revised Hse Type & Grd., Lot 48, From Salem to Hamilton "L"	2-21-91
3	Rev. hse and grd. lot 50 from Windemere to Chesterfield	3-4-91
4	Rev. hse and grd. lot 53 from Coventry to Enterprise	3-4-91
5	Rev. hse and grd. lot 47 from Chesterfield to M ^c Henry, Lot 56 from Enterprise to M ^c Henry, lot 57 from Hamilton "L" to Enterprise	1-20-91
6	Rev. hse & grd. lot 45	1-19-93
7	Rev. hse & grd. lot 46	2-26-93
8	Rev. hse & grd. lot 50, Add hse typical	5-26-93

ADDRESS CHART	
LOT NO	STREET ADDRESS
45	5402 Briar Oak Court
46	5398
47	5394
48	5390
49	5386
50	5382
51	5378
52	5374
53	5370
54	5366
55	5362
56	5358
57	5354
58	5350
59	5346



NOTE: This plan supercedes previously approved site development plan SDP 83-268.

OWNER: ELEANOR NICOLAI, ETAL
 SECURITY DEVELOPMENT
 PO Box 417
 ELLICOTT CITY, MD 21043

DEVELOPER: SECURITY DEVELOPMENT
 PO Box 417
 ELLICOTT CITY, MD 21043

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *James M. [Signature]* 4/26/91

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 DIRECTOR: *James [Signature]* 5/2/91
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: *James [Signature]* 5/2/91

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE.
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *James [Signature]* 4/24/91
 CHIEF BUREAU OF ENGINEERING: *James [Signature]* 4-22-91

NOTE
 The wetland (stream) buffer indicated on this plat (SDP) does not effect the initial construction of a residential unit on any lot. It does prohibit subsequent clearing, grading or construction in the buffer area. Maintenance of residences, landscaping and utilities is permitted.

CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA MD 21045 • (301) 381-7500 - BALTO • (301) 621-8300 - WASH

DESIGNED VHL	REVISED SITE DEVELOPMENT PLAN LOTS 1-59	SCALE 1"=30'
DRAWN GS	STRAWBERRY FIELDS	DRAWING 3 OF 7
CHECKED JME	SECTION 1 AREA 1	JOB NO. 88-104
DATE June 16, '89	1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	FILE NO. 88-104 X

For: The Ryland Group, Inc. Winterview Office Center
 7130 Minstre Way, Suite 215
 Columbia, Maryland 21045

SEDIMENT & EROSION CONTROL LEGEND:
 Earth Dike ———→
 Silt Fence ———→
 Stabilized Construction Entrance [Symbol]
 Entrance [Symbol]

TEMPORARY SWM & SEDIMENT TRAP # 4
 TRAP # 4 SOST (ST-V)
 D.A. = 0.58 Ac.
 Storage Req'd = 1044 cf
 Storage Provided = 3240 cf
 Top of Stone Crest = 377.0
 Bottom Elevation = 372.0
 Clean Out Elev. = 374.0
 Depth = 4'
 Bottom Dimensions = 41' X 14'
 1:1 Side Slopes in Cut
 L = 4'

TEMPORARY SWM & SEDIMENT TRAP # 6
 TRAP # 6 SOST (ST-V)
 D.A. = 0.80 Ac.
 Storage Required = 1440 cf
 Storage Provided = 4320 cf
 Top of Stone Crest = 384.0
 Bottom Elevation = 379.0
 Clean Out Elev. = 381.0
 Depth = 4'
 Bottom Dimensions = 41' X 20'
 1:1 Side Slopes in Cut
 L = 4'

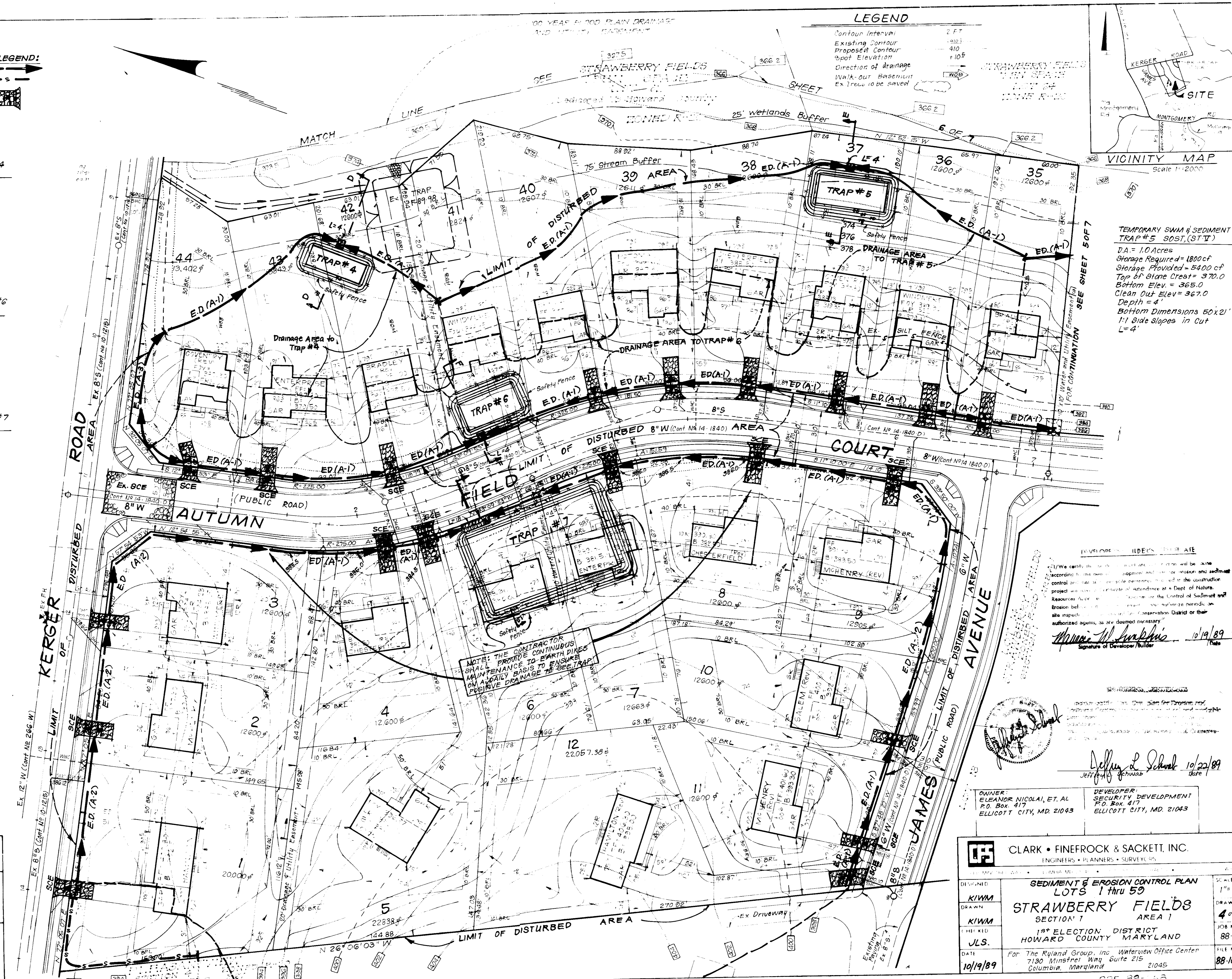
TEMPORARY SWM & SEDIMENT TRAP # 7
 TRAP # 7 S.O.S.T. (ST-V)
 D.A. = 4.5 Acres
 Storage Required = 8100 cf
 Storage Provided = 24400 cf
 Top of Stone Crest = 384.0
 Bottom Elevation = 379.0
 Clean Out Elev. = 381.0
 Depth = 4'
 Bottom Dimensions = 100' X 61'
 1:1 Side Slopes in Cut
 L = 18'

Reviewed for HOWARD COUNTY S.C.D.
 Name John M. [Signature]
 Date 10/19/89
 and meets Technical Requirements
 of the Conservation Service
 and the Department of the Environment
 and is APPROVED
 FOR THE EROSION CONTROL PLAN
 AND THE SWM TRAP DESIGN

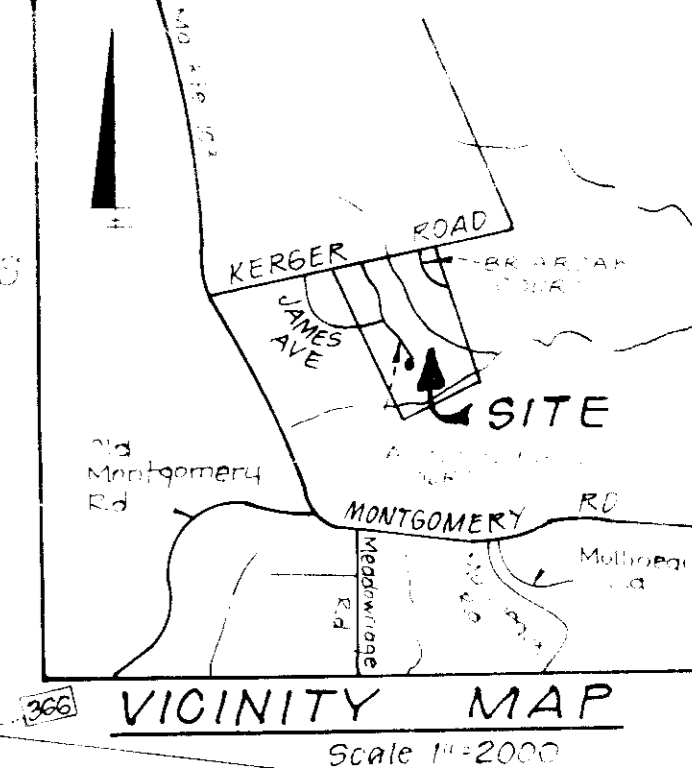
John M. [Signature] 10/19/89
 Approved

7-13-89

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
[Signature] 12-21-87
 COUNTY HEALTH OFFICER
 APPROVED HOWARD COUNTY DEPT. OF PLANNING & ZONING
[Signature] 12/29/89
 DIRECTOR
[Signature] 12/29/89
 CHIEF DIVISION OF COMMUNITY PLANNING
 AND LAND DEVELOPMENT
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 12/20/89
 DIRECTOR
[Signature] 12/18/89
 CHIEF BUREAU OF ENGINEERING



LEGEND
 Contour Interval 2 FT
 Existing Contour 410
 Proposed Contour 410
 Spot Elevation +10.5
 Direction of drainage
 Walk-out Basement
 Ex Trees to be saved



TEMPORARY SWM & SEDIMENT TRAP # 5
 TRAP # 5 SOST (ST-V)
 D.A. = 1.0 Acres
 Storage Required = 1800 cf
 Storage Provided = 5400 cf
 Top of Stone Crest = 370.0
 Bottom Elev. = 365.0
 Clean Out Elev. = 367.0
 Depth = 4'
 Bottom Dimensions 60' X 21'
 1:1 Side Slopes in Cut
 L = 4'

NOTE: THE CONTRACTOR SHALL PROVIDE CONTINUOUS MAINTENANCE TO EARTH DIKES ON A DAILY BASIS TO ENSURE POSITIVE DRAINAGE TO EACH TRAP.

IN WITNESS WHEREOF
 I, the undersigned, certify that the construction and maintenance of the erosion and sediment control measures shown on this plan and the construction project was inspected and approved by me at a Dept. of Natural Resources Agency for the Control of Sediment and Erosion before the start of construction. I will continue to inspect the site periodically during construction to ensure that the authorized agents, as are deemed necessary.
[Signature] 10/19/89
 Signature of Developer/Builder

[Signature]
 Date 10/22/89
 Jeffrey L. School

OWNER: ELEANOR NICOLAI, ET AL
 P.O. Box 417
 ELLICOTT CITY, MD 21043
 DEVELOPER: SECURITY DEVELOPMENT
 P.O. Box 417
 ELLICOTT CITY, MD 21043

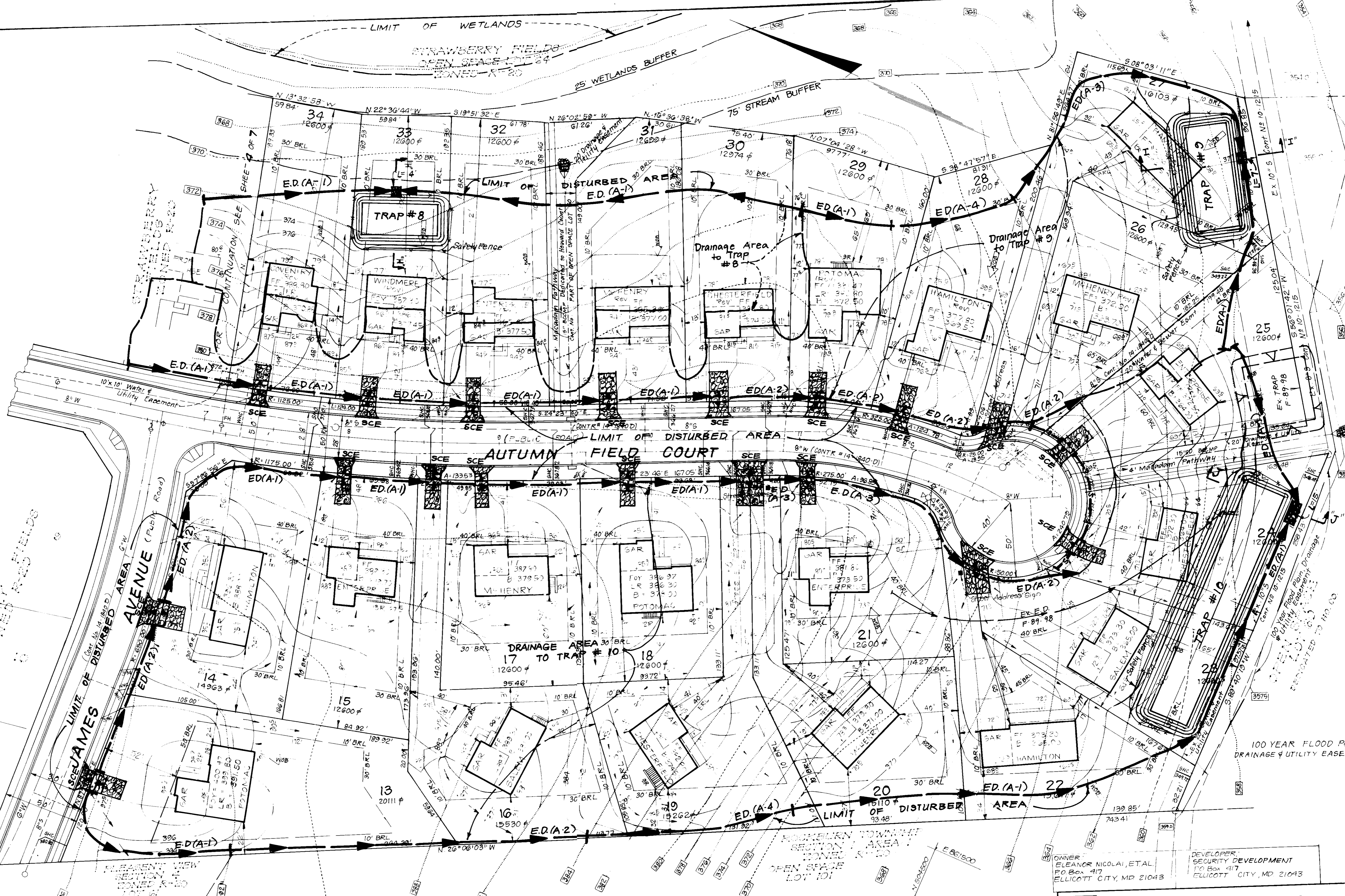
CLARK • FINECROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS

DESIGNED	KIWM	SEDIMENT & EROSION CONTROL PLAN	SCALE
DRAWN	KIWM	LOTS 1 thru 59	1" = 30'
CHECKED	JLS.	STRAWBERRY FIELDS	DRAWING
DATE	10/19/89	SECTION 1 AREA 1	4 of 7
		18 th ELECTION DISTRICT	JOB NO.
		HOWARD COUNTY MARYLAND	88-104
		For The Ryland Group, Inc. Waterworks Office Center	FILE NO.
		7130 Minstrel Way, Suite 215	88-104-SE
		Columbia, Maryland	

TEMPORARY SWM & SEDIMENT TRAP # 8 SOST (ST-V)
 D.A. = 1.0 Acres
 Storage Req'd = 1800 cf
 Storage Provided = 5400 cf
 Top of Stone Crest = 371.0
 Bottom Elev = 366.0
 Clean Out Elev = 368.0
 Depth = 4'
 Bottom Dimensions = 50'x21'
 1:1 Side Slopes in Cut
 L = 4'

TEMPORARY SWM & SEDIMENT TRAP # 9 SOST (ST-V)
 D.A. = 1.7 Acres
 Storage Req'd = 3060 cf
 Storage Provided = 9300 cf
 Top of Stone Crest = 356.0
 Bottom Elev = 351.0
 Clean Out Elev = 353.0
 Depth = 4'
 Bottom Dimensions = 71'x27'
 1:1 Side Slopes in Cut
 L = 7'

TEMPORARY SWM & SEDIMENT TRAP # 10 SOST (ST-V)
 D.A. = 3.8 Acres
 Storage Required = 6840 cf
 Storage Provided = 20740 cf
 Top of Stone Crest = 357.0
 Bottom Elev = 352.0
 Clean Out Elev = 354.0
 Depth = 4'
 Bottom Dimensions = 166'x26.5'
 1:1 Side Slopes in Cut
 L = 15'



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *Paul W. ...* 12-21-89
 DATE: 12/21/89
 APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 DIRECTOR: *Richard ...* 12/22/89
 DATE: 12/22/89
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *James ...* 12/20/89
 DATE: 12/20/89
 CHIEF BUREAU OF ENGINEERING

7-13-89

DEVELOPER'S REGISTERED FERTILIZER
 Reviewed for *John M. ...* S.C.D.
 Name: *John M. ...*
 Signature: *John M. ...* 12/21/89
 U.S. Soil Conservation Service
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE SOIL CONSERVATION SERVICE
 Approved: *John R. ...* 12/24/89

WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THE PLAN OF DEVELOPMENT AND CONSTRUCTION AND SEDIMENT CONTROL AND THAT ALL NECESSARY PERMITS AND APPROVALS FOR THE CONSTRUCTION PROJECT WILL HAVE BEEN OBTAINED. IN ADDITION, ALL NECESSARY PERMITS AND APPROVALS FOR THE CONSTRUCTION PROJECT WILL BE OBTAINED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
 Signature of Developer/Builder: *Walter M. ...* 10/19/89
 Date: 10/19/89

WE CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND FEASIBLE PLAN AND THAT THE MEASURES AND METHODS SPECIFIED WILL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND WILL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
 Signature: *John L. ...* 12/22/89
 Date: 12/22/89

OWNER: ELEANOR NICOLAI, ETAL
 P.O. Box 417
 ELLICOTT CITY, MD 21043
 DEVELOPER: SECURITY DEVELOPMENT
 P.O. Box 417
 ELLICOTT CITY, MD 21043

CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7130 MINISTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 • BALTO • (410) 486-1000 • WASH DC
 DESIGNED: K/IWM
 DRAWN: K/IWM
 CHECKED: JLS
 DATE: 10/19/89

SEDIMENT & EROSION CONTROL PLAN
 LOTS 1-59
 STRAWBERRY FIELDS
 SECTION 1
 AREA 1
 1ST ELECTION DISTRICT
 HOWARD COUNTY MARYLAND
 For The Ryland Group, Inc. Waterview Office Center
 7130 Ministrel Way Suite 215
 Columbia, Maryland 21045
 SCALE: 1" = 30'
 DRAWING: 5 of 7
 JOB NO: 88-104
 FILE NO: 88-104S
 5DP-89-268

TEMPORARY SWM & SEDIMENT TRAP #1 SOST (ST-V)

D.A. = 1.2 Acres
 Storage Req'd = 2160 cf
 Storage Provided = 6480 cf
 Top of Stone Crest = 374.0
 Bottom Elev. = 369.0
 Clean Out Elev. = 371.0
 Depth = 4'
 Bottom Dimensions = 16'x77'
 1:1 Side Slopes in Cut
 L=5'

TEMPORARY SWM & SEDIMENT TRAP #3 SOST (ST-V)

D.A. = 1.1 Acres
 Storage Req'd = 1980 cf
 Storage Provided = 5940 cf
 Top of Stone Crest = 367.0
 Bottom Elev. = 364.0
 Clean Out Elev. = 364.0
 Depth = 4'
 Bottom Dimensions = 51'x23'
 1:1 Side Slopes in Cut
 L=5'

TEMPORARY SWM & SEDIMENT TRAP #2 SOST (ST-V)

D.A. = 1.1 Acres
 Storage Req'd = 1980 cf
 Storage Provided = 5940 cf
 Top of Stone Crest = 368.0
 Bottom Elev. = 363.0
 Clean Out Elev. = 365.0
 Depth = 4'
 Bottom Dimensions = 51'x23'
 1:1 Side Slopes in Cut
 L=5'

Reviewed for Name: **Howard S.C.D.**

and meets Technical Requirements

Signature: *James M. Helm* 10/24/89

Date: 10/24/89

Signature: *John Robinson* 10/24/89

Date: 10/24/89

Signature: *John Robinson* 10/24/89

Date: 10/24/89

7-13-89

Signature: *James M. Helm* 12-21-85

Date: 12-21-85

Signature: *Richard Hood* 12/22/89

Date: 12/22/89

Signature: *Richard Hood* 12/22/89

Date: 12/22/89

Signature: *James M. Helm* 12/22/89

Date: 12/22/89

Signature: *James M. Helm* 12/22/89

Date: 12/22/89

Signature: *James M. Helm* 12/22/89

Date: 12/22/89

Signature: *James M. Helm* 12/22/89

Date: 12/22/89

Signature: *James M. Helm* 12/22/89

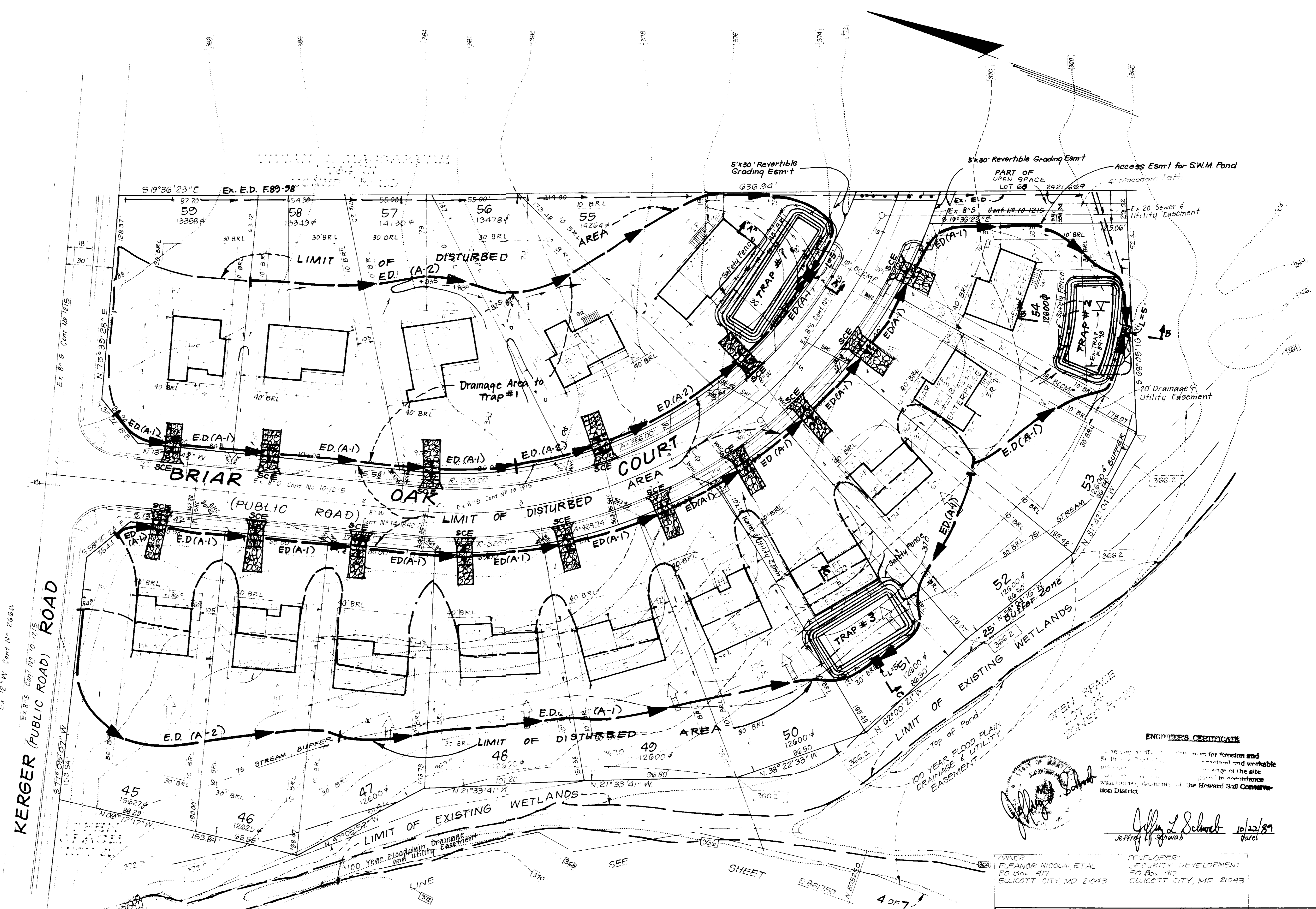
Date: 12/22/89

Signature: *James M. Helm* 12/22/89

Date: 12/22/89

Signature: *James M. Helm* 12/22/89

Date: 12/22/89



DEVELOPER'S CERTIFICATE

"I/We certify that the construction will be done according to the specifications for erosion and sediment control and that the construction will be completed in accordance with the construction project plan. I/We certify that the construction project will be completed in accordance with the control of Sediment and Erosion before the construction is authorized. I/We authorize periodic on-site inspection by the Howard County Conservation District or their authorized agents, as are deemed necessary."

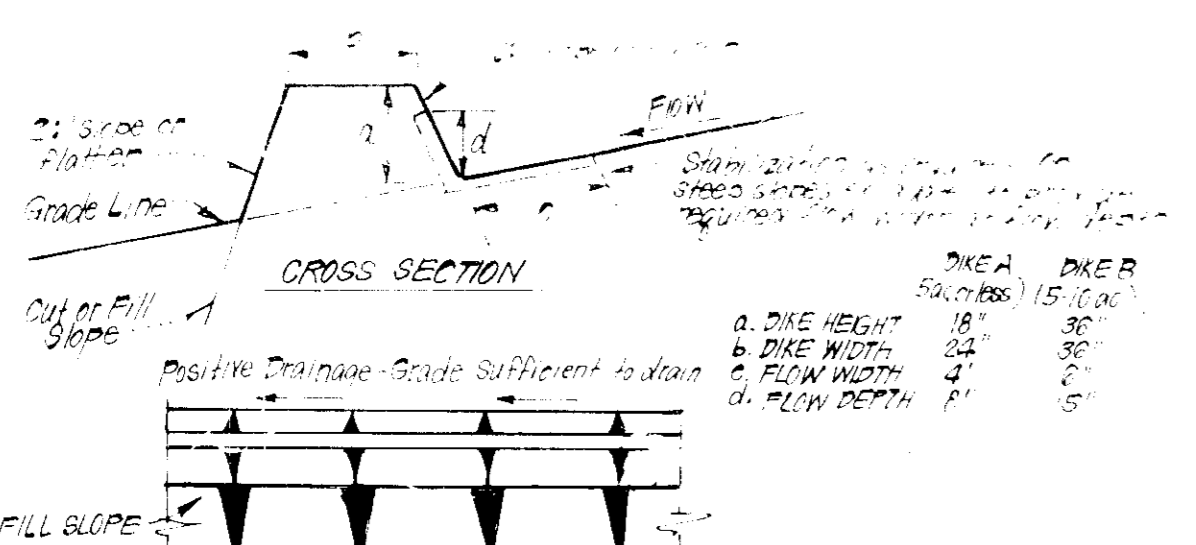
Signature: *James M. Helm* 10/19/89
 Date: 10/19/89

ENGINEER'S CERTIFICATE

"I/We certify that the construction will be done according to the specifications for erosion and sediment control and that the construction will be completed in accordance with the construction project plan. I/We certify that the construction project will be completed in accordance with the control of Sediment and Erosion before the construction is authorized. I/We authorize periodic on-site inspection by the Howard County Conservation District or their authorized agents, as are deemed necessary."

Signature: *Jeffrey L. Schwab* 10/22/89
 Date: 10/22/89

CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS		
DESIGNED	SEDIMENT & EROSION CONTROL PLAN LOTS 1-59	
DRAWN	STRAWBERRY FIELDS	
CHECKED	SECTION 1 AREA 1	
DATE	1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
DATE	For The Ryland Group, Inc. Winterview Office Center 7130 Minstrel Way Suite 215 Columbia, Maryland 21045	
SCALE	1" = 20'	
DRAWING	6-7	
JOB NO.	88-104	
FILE NO.	88-104-SE	



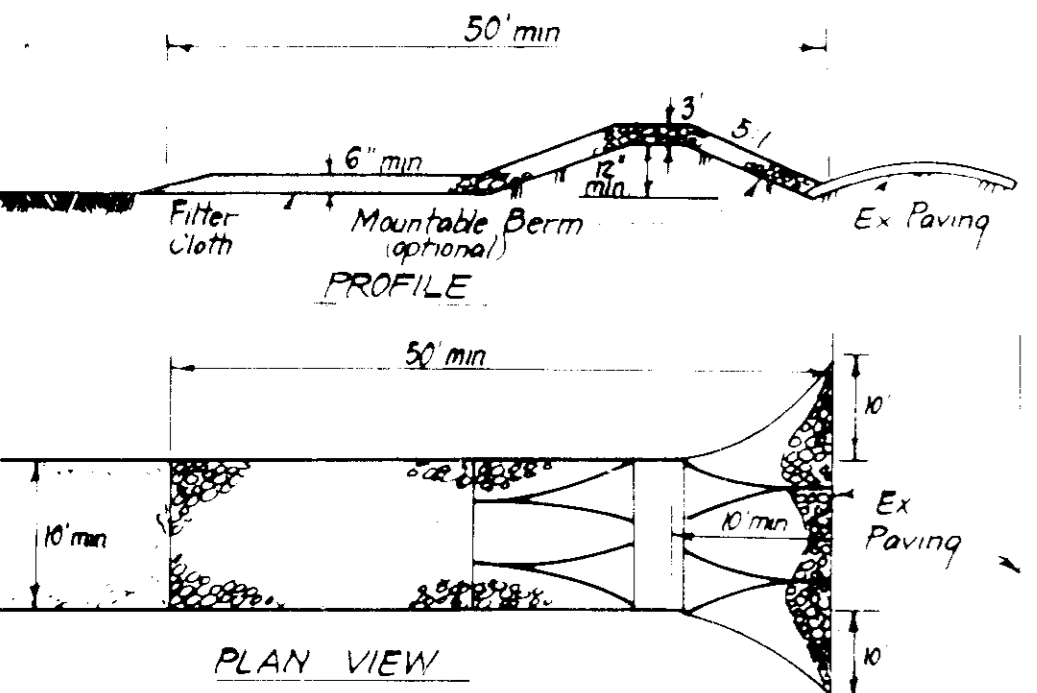
CONSTRUCTION SPECIFICATIONS:
 1. All dikes shall be compacted by earth-moving equipment.
 2. All dikes shall have positive drainage to an outlet.
 3. Top width may be wider and side slopes may be flatter if desired, but must crossing by construction traffic.
 4. Final location should be adjusted as needed to utilize a stable and soft surface.
 5. Earth dikes shall have an outlet with a minimum 2% slope. Rip rap 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 (B) in seeding season (C) flow channel as per chart below.

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	0.5 - 3.0%	Seed & Straw Mulch	Seed or Straw Mulch
2	3.1 - 6.0%	Seed & Straw Mulch	Seed mulch or Excelsior (2" x 3" x 4")
3	6.1 - 8.0%	Seed mulch or Sod/straw	Lined Rip Rap 2" x 4" system
4	8.1 - 20.0%	Lined Rip Rap 4" x 8" system	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 of least 8" thick, pressed into soil.
 C Appropriate equivalents can be substituted for any of the above materials.
 7 Periodic inspection and required maintenance must be provided after each rain.

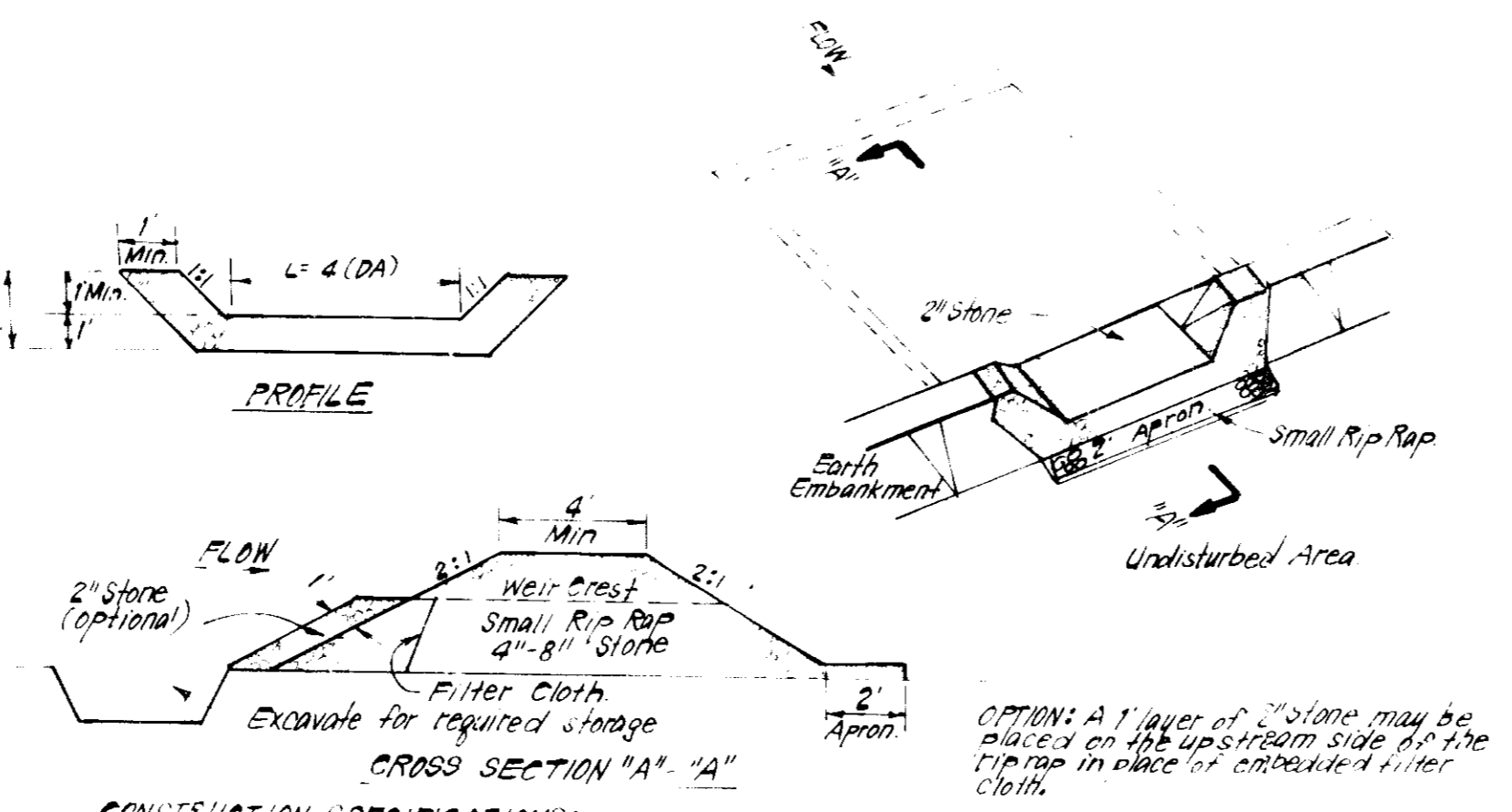
EARTH DIKE DETAIL (E.D.)



CONSTRUCTION SPECIFICATIONS:
 1. Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
 2. Length - As required, but not less than 50 feet, except on a single residence lot where a 30 foot minimum length would apply.
 3. Thickness - Not less than six (6) inches.
 4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
 5. 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.
 6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5% slopes will be permitted.
 7. 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 conditional 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.
 8. 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.
 9. Periodic inspection and needed maintenance shall be provided after each rain.

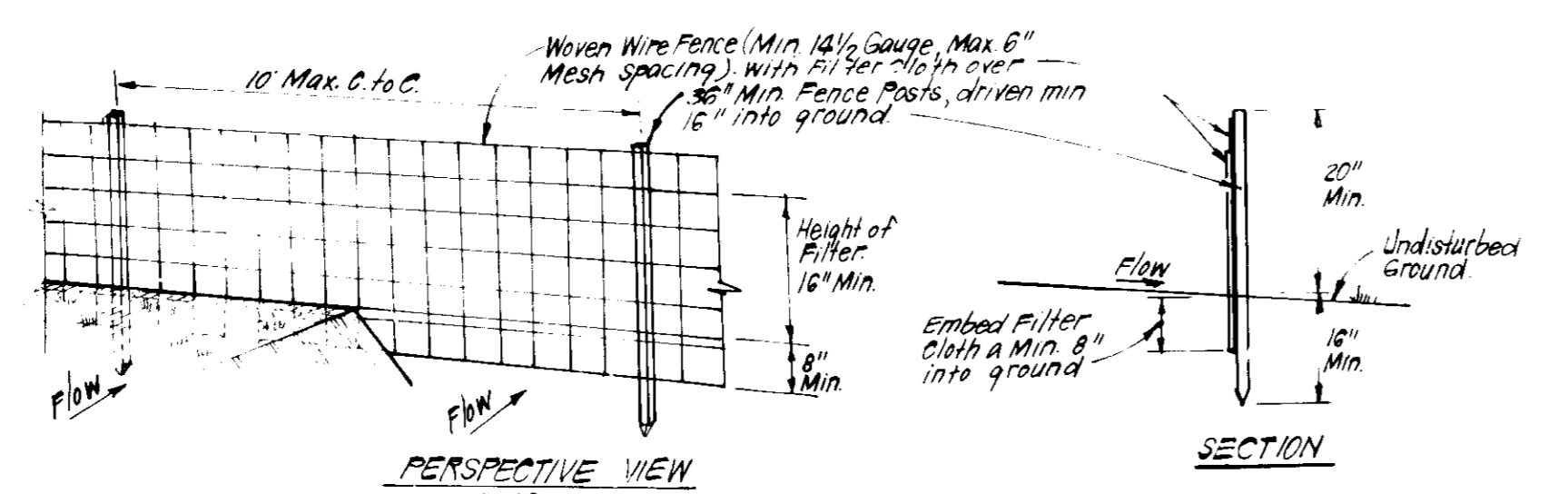
STABILIZED CONSTRUCTION ENTRANCE (SCE)

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: [Signature] 12-21-89
 APPROVED, HOWARD COUNTY DEPT. OF PLANNING & ZONING
 PLANNING DIRECTOR: [Signature] 12/27/89
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] 12/20/89
 CHIEF BUREAU OF ENGINEERING: [Signature] 12-13-89



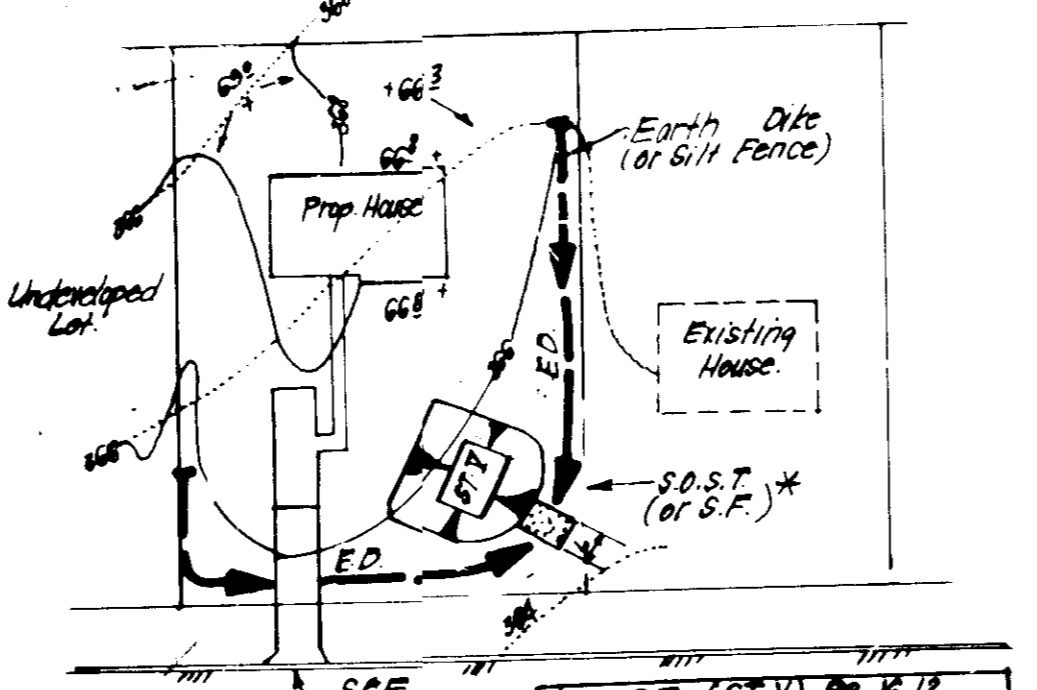
CONSTRUCTION SPECIFICATIONS:
 1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The rip rap area shall be cleared.
 2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by tractors, rollers, or other 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" x 8" with 1" thickness of aggregate placed on the up-grade side on the small rip rap or embedded filter cloth in the rip rap.
 5. The outlet 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.) STV



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 ties spaced every 24" at top and mid section.
 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.

SILT FENCE DETAIL (S)



CONSTRUCTION SPECIFICATIONS:
 1. Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
 2. Length - As required, but not less than 50 feet, except on a single residence lot where a 30 foot minimum length would apply.
 3. Thickness - Not less than six (6) inches.
 4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
 5. 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.
 6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5% slopes will be permitted.
 7. 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 conditional 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.
 8. 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.
 9. Periodic inspection and needed maintenance shall be provided after each rain.

SINGLE LOT SEDIMENT CONTROL PLAN

1. Following any soil disturbance or redistribution, permanent or temporary stabilization shall be completed within 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.
 2. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 14, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
 3. All disturbed areas must be stabilized within the time period specified above in accordance with the 1987 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.
 4. 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.
 5. Site Analysis:
 Total Area of Site: 18.248 Acres
 Area Disturbed: 15.90 Acres
 Area to be roofed or paved: 4.03 Acres
 Area to be vegetatively stabilized: 11.87 Acres
 Total Cut: 2546 Cu. yds
 Total Fill: 3297 Cu. yds
 Offsite waste/borrow area location: Undetermined
 6. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
 7. Additional sediment control must be provided, if deemed necessary by the Howard County DEW sediment control inspector.
 8. 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.
 9. If houses are to be constructed on an "As-Sold" basis, at random, single lot Sediment Control as shown below shall be implemented.
 10. All pipes to be blocked at the end of each day (see detail below). N/A
 11. The total amount of straw bales (1000 lbs) equals 230 lbs.
 12. If houses are to be constructed on an "As-Sold" basis, at random, single lot Sediment Control as shown below shall be implemented.
 13. The total amount of straw bales (1000 lbs) equals 230 lbs.

CONSTRUCTION SEQUENCE:

NO.	DESCRIPTION	NO. OF DAYS
A.	Obtain Grading Permit and Install Sediment & Erosion Control Devices and Stabilize.	7
B.	Excavate for foundations, Rough Grade, & Temp. Stabilize.	100
C.	Construct Structures, Sidewalks & Drive Ways.	200
D.	Final Grade & Stabilize in accordance w/Specs. & Specs.	30
E.	Upon approval of the sediment control inspector, remove sediment & erosion controls & stabilize.	7

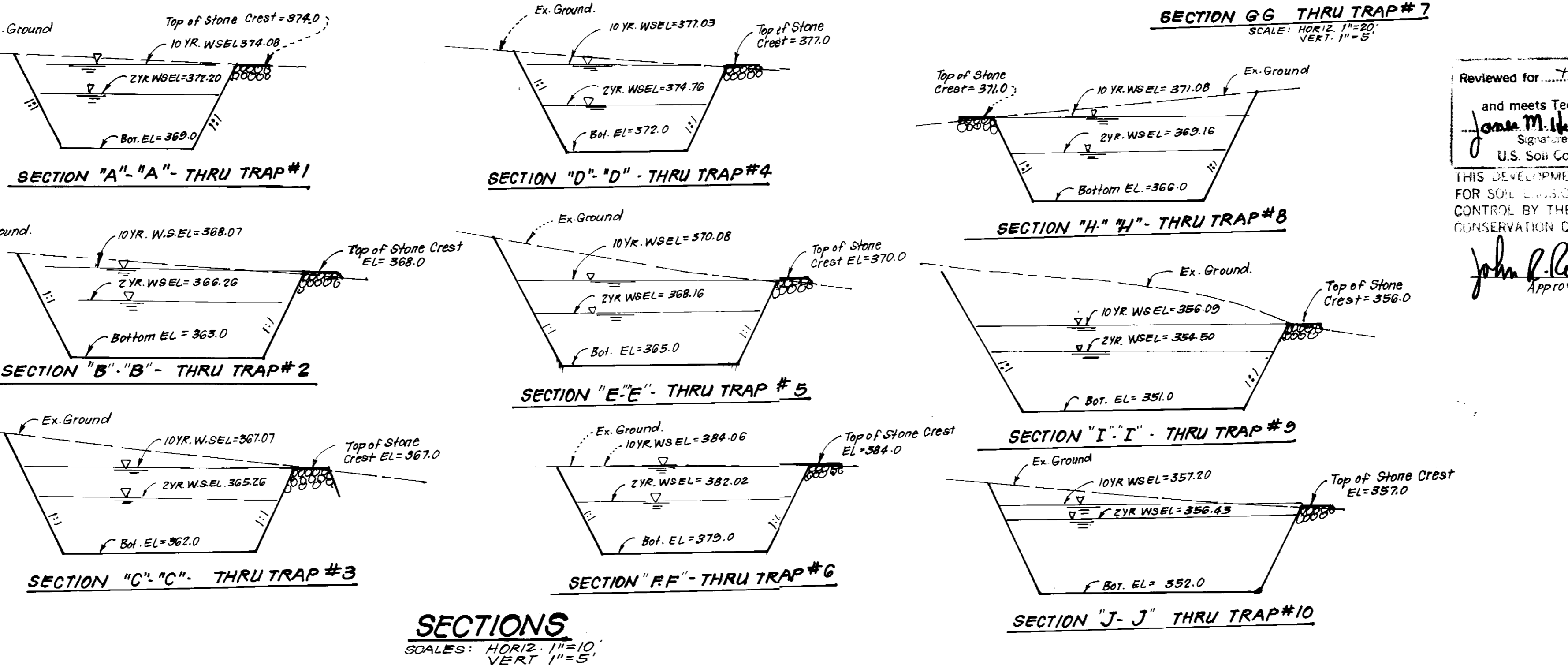
DEVELOPER'S/BUILDER'S CERTIFICATE

"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: [Signature] 10/19/89
 Title: [Title]

ENGINEER'S CERTIFICATE

"I hereby certify that this plan for Erosion and Sediment Control represents a professional and responsible 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] 10/20/89
 Title: [Title]

Reviewed for: [Signature] S.C.D. and meets Technical Requirements
 Signature: [Signature] 10/21/89
 Title: [Title]
 U.S. Soil Conservation Service
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature: [Signature] 10/21/89
 Title: [Title]



SECTIONS
 SCALES: HORIZ. 1"=10'
 VERT. 1"=5'
 (Unless shown otherwise)

OWNER: ELBA NOR NICOLAI, ET AL
 P.O. BOX 417
 ELLICOTT CITY, MD 21043

DEVELOPER: SECURITY DEVELOPMENT
 P.O. BOX 417
 ELLICOTT CITY, MD 21043

CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7330 MINISTREL WAY • COLUMBIA MD 21045 • (301) 881-7500 BALTO • (410) 326-1100 W.A.

DESIGNED	KIWM	SCALE	As Shown
DRAWN	KIWM	SEDIMENT & EROSION CONTROL PLAN	
CHECKED	JLS	LOTS 1-59	
DATE	10/19/89	STRAWBERRY FIELDS	
		SECTION 1 AREA 1	
		1ST ELECTION DISTRICT	
		HOWARD COUNTY, MARYLAND	
		88-104	
		FOR: The Ryland Group, Inc. Waterview Office Ch.	
		7130 Ministrel Way Suite 215	
		Columbia Md. 21045	
		88-104 SE	

SDP-89-268