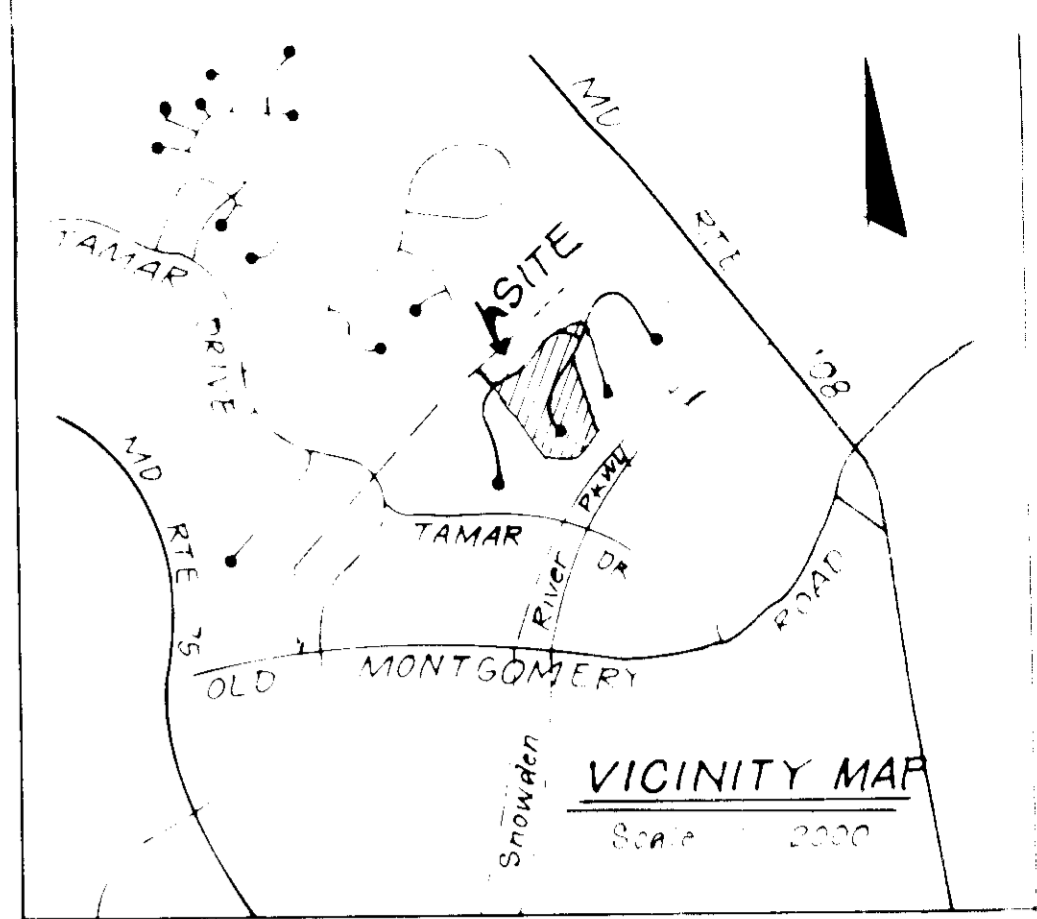
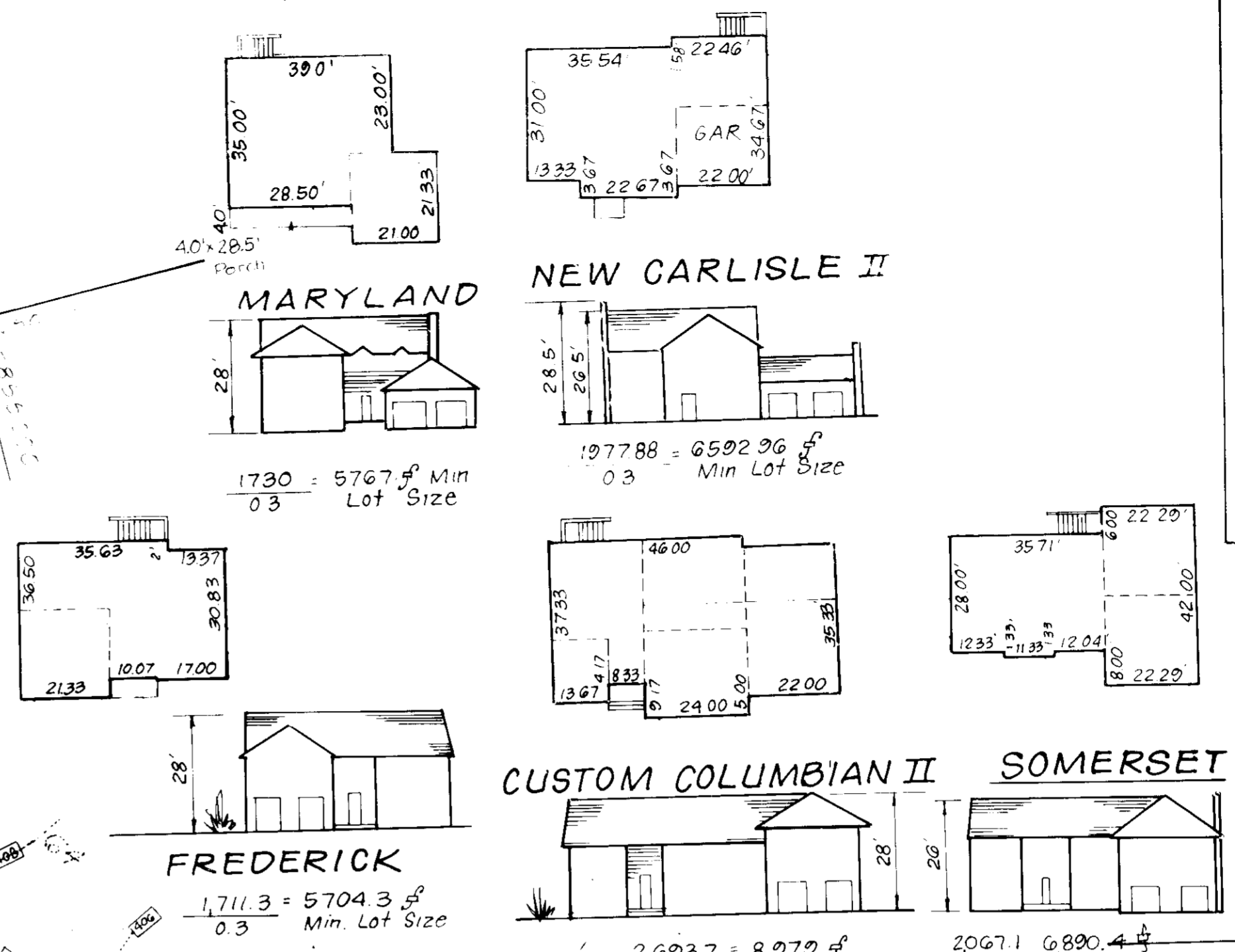


NO	REVISIONS	Date
1	Rev hse of 7rd lots 70 & 72	7-3-81

TYPICAL HOUSES



LEGEND

- Contour Interval 2.0'
- Existing Contour 40'
- Proposed Contour 40'
- Spot Elevation 40.5'
- Diagrams of Damage Walk out Basement Trees to be Saved
- 100 Year Flood Plain elev. 59.4'

GENERAL NOTES

- Subject property zoned NTSFMD per Comprehensive Zoning Plan dated 8-2-85.
- The coordinates shown hereon are based on the Maryland State Grid System and derived from the following Howard County Control Stations 2542001, 2643002, 2643003, 2643004, 2643005 & 2645006.
- 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 5.06 AC.
- Total number of lots 19.
- The contractor or developer shall contact the Construction Inspection Survey Division, 24 hours in advance of commencement of work at 792-2630.
- Reference numbers 88-146, P-87-83, F-88-171, F-88-211, F-88-197A & I.
- Topo was field run by Clark Finebrock & Sackett, Inc.

SPECIAL NOTES

- Approved Road Construction Plans shall be used for all 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 4" iron. The shall be 4" iron.
- The stormwater management provided for in the Village of Longreach.
- Public water and sewer shown for reference only. For more detailed information see water and sewer plans contract No. 82-01-825-D.

LOT#	STREET ADDRESS
66	8505 MOON GLASS COURT
67	8509 MOON GLASS COURT
68	8513 MOON GLASS COURT
69	8517 MOON GLASS COURT
70	8521 MOON GLASS COURT
71	8525 MOON GLASS COURT
72	8529 MOON GLASS COURT
73	8533 MOON GLASS COURT
74	8537 MOON GLASS COURT
75	8541 MOON GLASS COURT
76	8545 MOON GLASS COURT
77	8549 MOON GLASS COURT
78	8553 MOON GLASS COURT
79	8557 MOON GLASS COURT
80	8561 MOON GLASS COURT
81	8565 MOON GLASS COURT
82	8569 MOON GLASS COURT
83	8573 MOON GLASS COURT
84	8577 MOON GLASS COURT

NOTE: Topo on this sheet was field run by Clark Finebrock & Sackett, Inc. Dated 12-88

3-2-89
LKS

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 4-18-89

APPROVED FOR PLANNING AND ZONING
HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE: 5-5-89

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 4-13-89

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

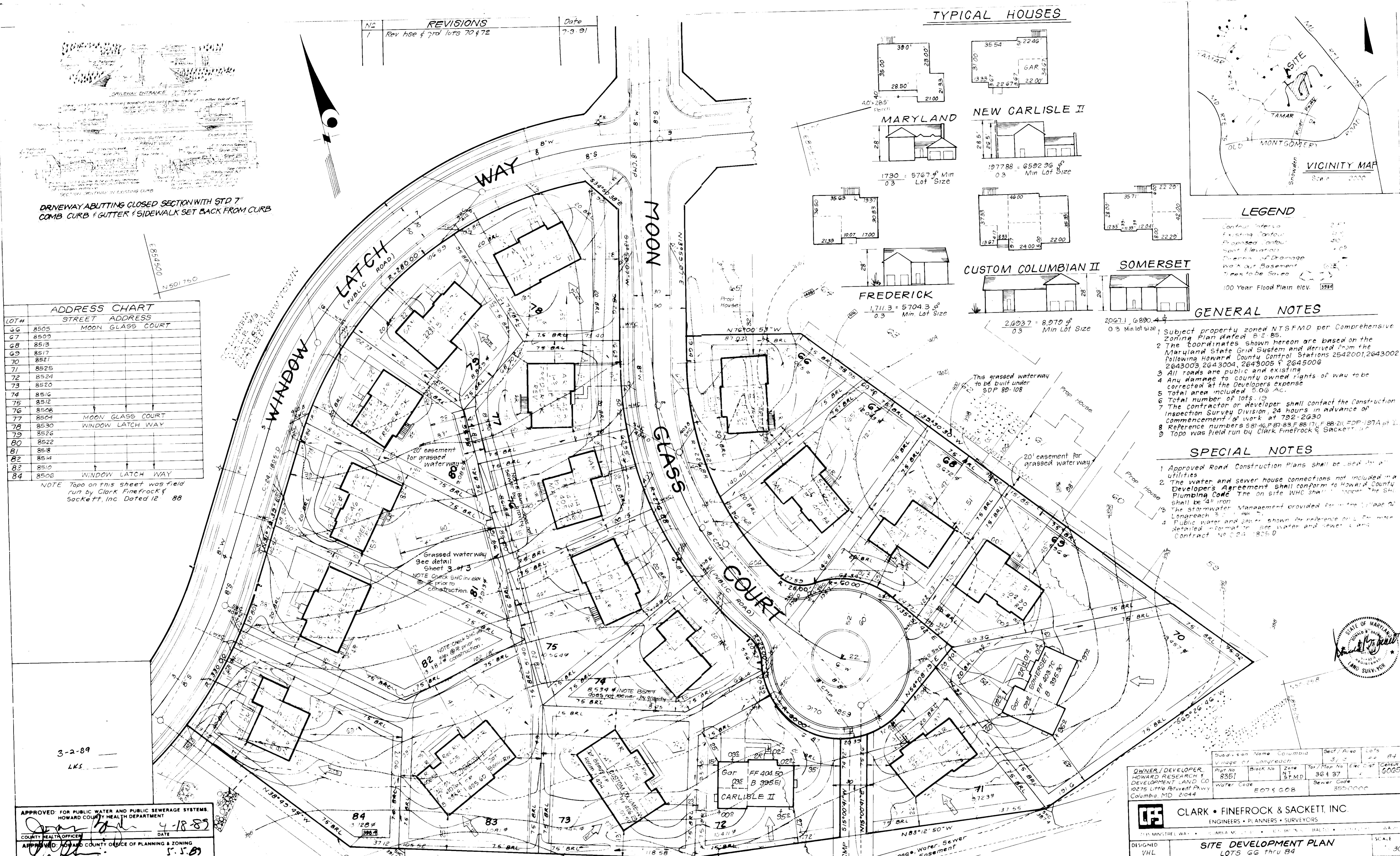
SITE DEVELOPMENT PLAN
LOTS 66 THRU 84
COLUMBIA VILLAGE OF LONGREACH
SECTION 3 AREA 3
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR CONSOLIDATED HOME BUILDERS INC.
6625 Selnick Drive
Baltimore, Maryland 21227

DATE: 1-31-89

SCALE: 30'
DRAWING: 88-168
JOB NO: 88-168
FILE NO: 88-168

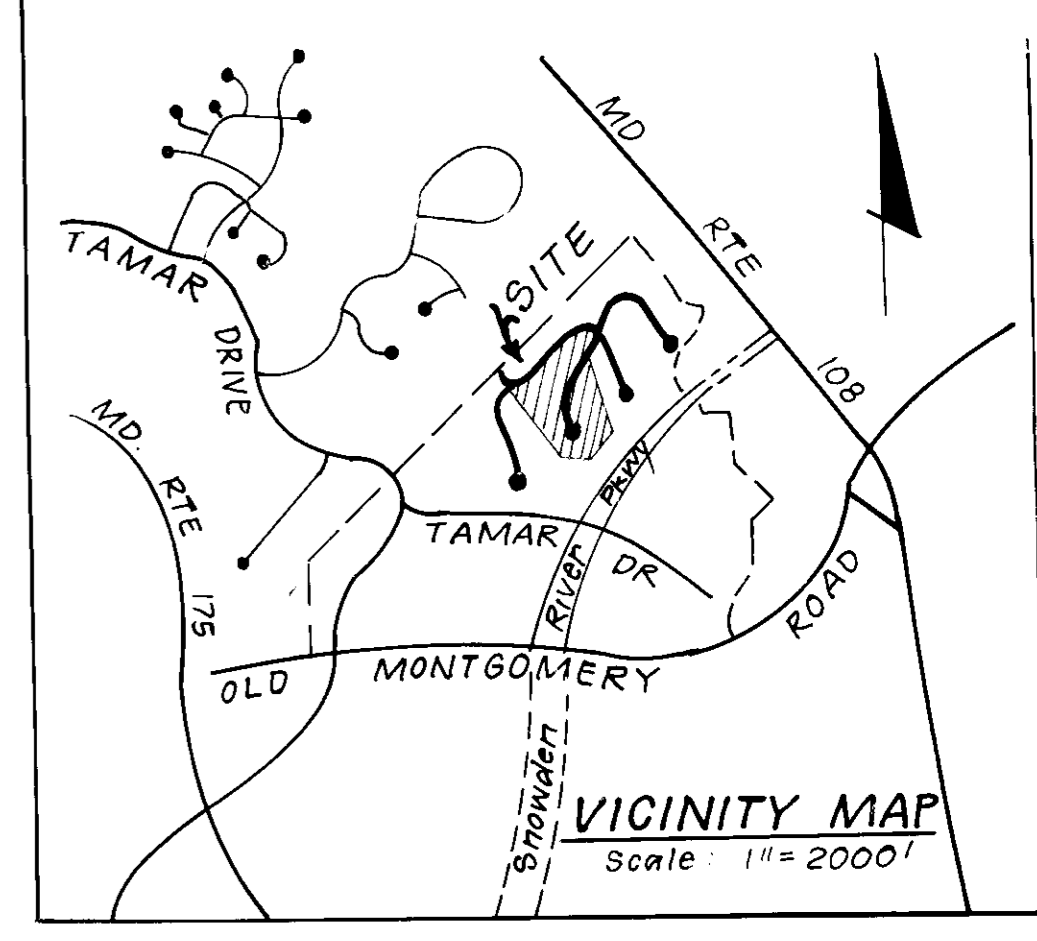
SDP-89-152



DEVELOPER/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 necessary personnel involved in the construction project will be trained in accordance with the Department of Natural Resources approved Training Program for the Control of Sediment and Erosion. I/We hereby certify that I/We also authorize periodic on-site inspections by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."

Joseph Blubaugh 1/31/89
 Signature of Developer/Builder Date



LEGEND

- CONTOUR INTERVAL 2 FT
- EXISTING CONTOUR 410
- PROPOSED CONTOUR 410
- SPOT ELEVATION +10'
- DIRECTION OF DRAINAGE
- WALK OUT BASEMENT
- TREES TO BE SAVED
- 100 YR FLOOD PLAIN ELEV. 332.2'
- EARTH DIKE ED (A-3)
- SILT FENCE
- STABILIZED CONST ENTRANCE

Approved for HOWARD S.C.D.
 Name
 and meets technical requirements
Joseph Blubaugh 3/23/89
 Signature Date
 U.S. Soil Conservation Service

THIS REVEAL STATE REPORT IS FOR SOIL LOSS AND SEDIMENT CONTROL AND TOWARD SOIL CONSERVATION DISTRICT.

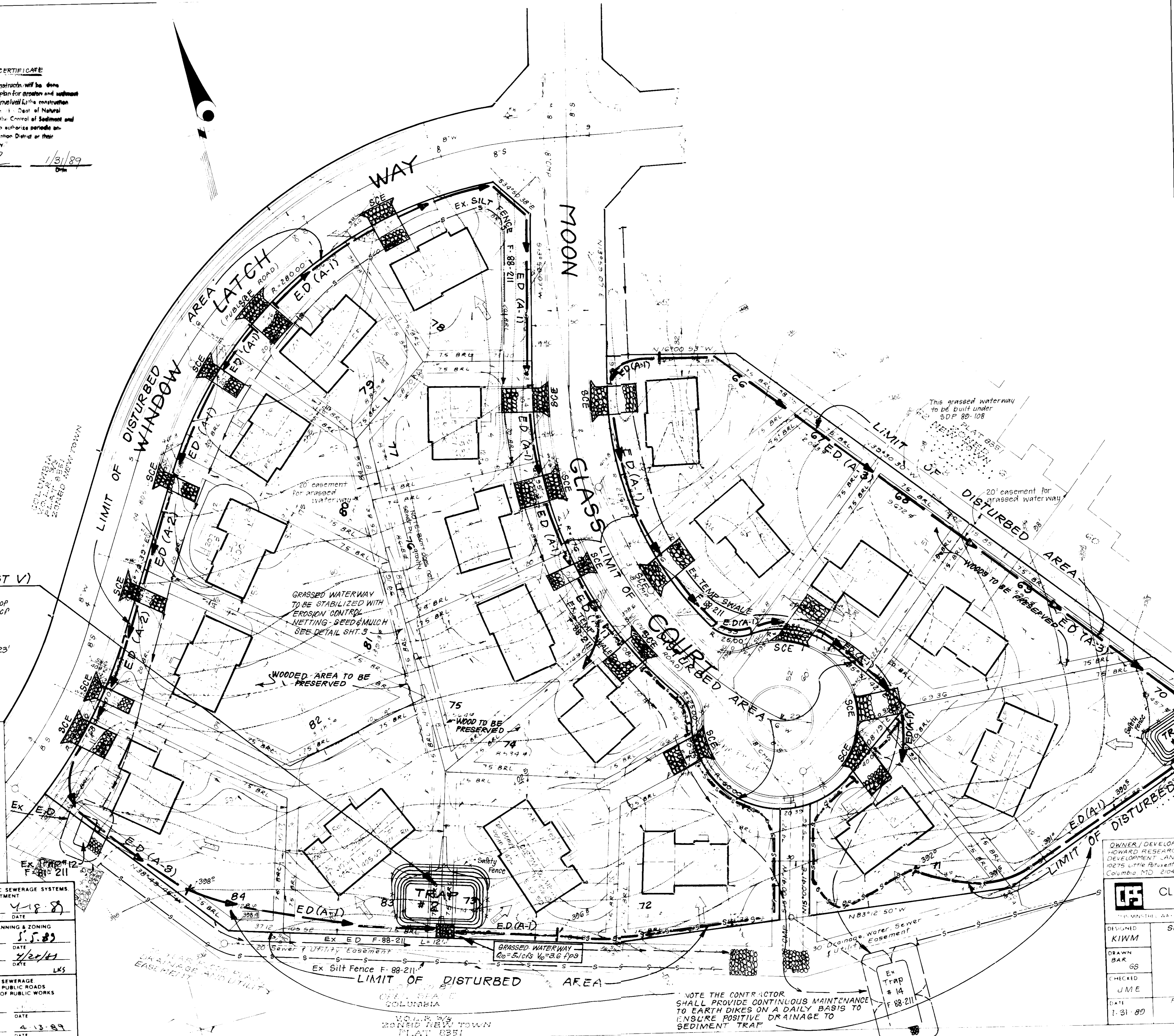
Approved _____ Date _____

TRAP #1 SOST (ST V)

DA = 1.2 AC
 Storage Req'd = 2160 cf
 Storage Provided = 2160 cf
 Depth = 4 ft
 Top of Stone Crest = 390.0
 Bottom Elev. = 385.0
 Clean Out = 387.0
 L = 5'
 Bottom Dimensions = 26' x 14'
 1:1 Side Slopes

TRAP #2 SOST (ST V)

DA = 30 AC
 Storage Required = 5400 cf
 Storage Provided = 5400 cf
 Depth = 4 ft
 Top of Stone Crest = 396.0
 Bottom Elevation = 391.0
 Clean Out Elev. = 392.0
 Bottom Dimensions = 40' x 23'
 L = 12'
 1:1 Side Slopes



OWNER/DEVELOPER
 HOWARD RESEARCH & DEVELOPMENT LAND CO
 10275 LITTLE PATENT PIKE
 Columbia MD 21044

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

DESIGNED KIWM
 DRAWN BAR 66
 CHECKED JME
 DATE 1-31-89

SEDIMENT AND EROSION CONTROL PLAN
 LOTS 66 THRU 84
COLUMBIA
VILLAGE OF LONGREACH
SECTION 3 AREA 3
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 FOR CONSOLIDATED HOME BUILDERS INC
 4625 Selnick Drive
 Baltimore Maryland 21227

SDP-89-152

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER *John P. ...* 4-18-89
 DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR *Mark S. ...* 4/20/89
 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR *William ...* 4-13-89
 DATE

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



ENGINEER'S CERTIFICATE
 I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
G. Nelson Clark 2-1-89
 G. Nelson Clark Date

1. All sites shall be stabilized within the time period specified above in accordance with the Maryland Standards and Specifications for Soil Erosion and Sediment Control (MDES) and the Howard County Design Manual, Storm Drainage, Chapter 11.02, and the Howard County Design Manual, Storm Drainage, Chapter 11.03.

2. All sites shall be stabilized within the time period specified above in accordance with the Maryland Standards and Specifications for Soil Erosion and Sediment Control (MDES) and the Howard County Design Manual, Storm Drainage, Chapter 11.02, and the Howard County Design Manual, Storm Drainage, Chapter 11.03.

3. All sites shall be stabilized within the time period specified above in accordance with the Maryland Standards and Specifications for Soil Erosion and Sediment Control (MDES) and the Howard County Design Manual, Storm Drainage, Chapter 11.02, and the Howard County Design Manual, Storm Drainage, Chapter 11.03.

4. All sites shall be stabilized within the time period specified above in accordance with the Maryland Standards and Specifications for Soil Erosion and Sediment Control (MDES) and the Howard County Design Manual, Storm Drainage, Chapter 11.02, and the Howard County Design Manual, Storm Drainage, Chapter 11.03.

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6. All sites shall be stabilized within the time period specified above in accordance with the Maryland Standards and Specifications for Soil Erosion and Sediment Control (MDES) and the Howard County Design Manual, Storm Drainage, Chapter 11.02, and the Howard County Design Manual, Storm Drainage, Chapter 11.03.

7. All sites shall be stabilized within the time period specified above in accordance with the Maryland Standards and Specifications for Soil Erosion and Sediment Control (MDES) and the Howard County Design Manual, Storm Drainage, Chapter 11.02, and the Howard County Design Manual, Storm Drainage, Chapter 11.03.

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9. All sites shall be stabilized within the time period specified above in accordance with the Maryland Standards and Specifications for Soil Erosion and Sediment Control (MDES) and the Howard County Design Manual, Storm Drainage, Chapter 11.02, and the Howard County Design Manual, Storm Drainage, Chapter 11.03.

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12. All sites shall be stabilized within the time period specified above in accordance with the Maryland Standards and Specifications for Soil Erosion and Sediment Control (MDES) and the Howard County Design Manual, Storm Drainage, Chapter 11.02, and the Howard County Design Manual, Storm Drainage, Chapter 11.03.

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14. All sites shall be stabilized within the time period specified above in accordance with the Maryland Standards and Specifications for Soil Erosion and Sediment Control (MDES) and the Howard County Design Manual, Storm Drainage, Chapter 11.02, and the Howard County Design Manual, Storm Drainage, Chapter 11.03.

15. All sites shall be stabilized within the time period specified above in accordance with the Maryland Standards and Specifications for Soil Erosion and Sediment Control (MDES) and the Howard County Design Manual, Storm Drainage, Chapter 11.02, and the Howard County Design Manual, Storm Drainage, Chapter 11.03.

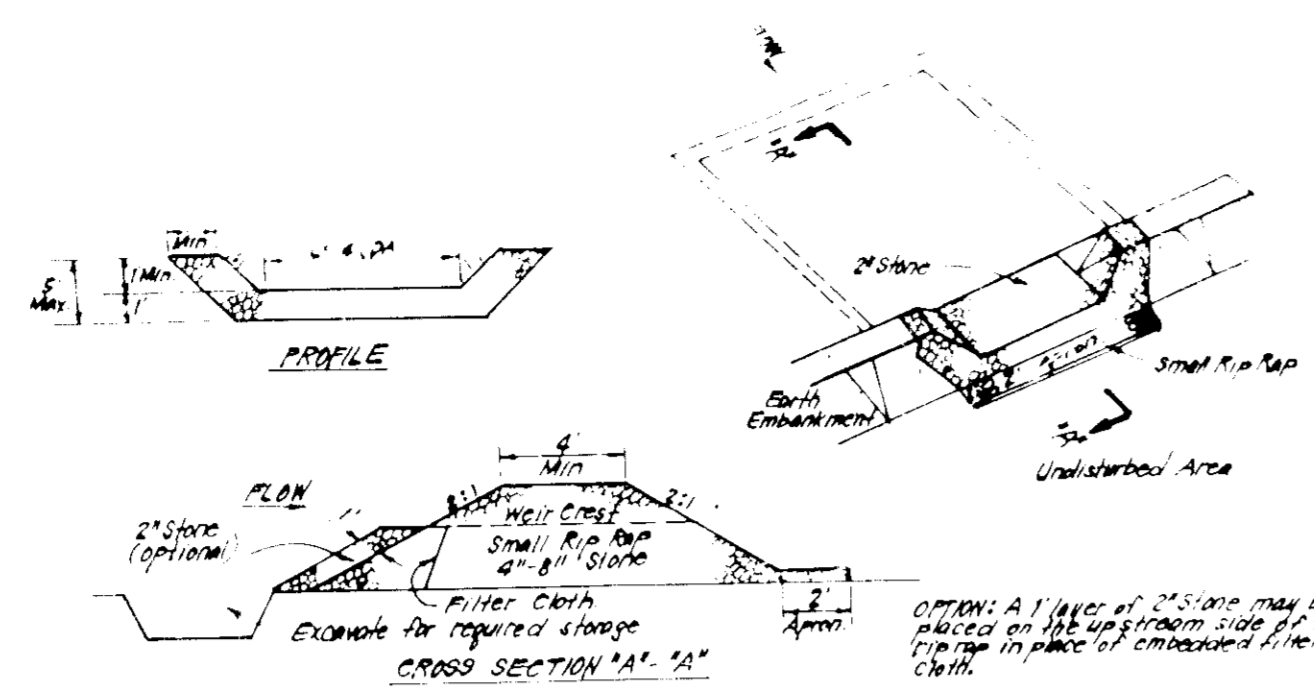
16. All sites shall be stabilized within the time period specified above in accordance with the Maryland Standards and Specifications for Soil Erosion and Sediment Control (MDES) and the Howard County Design Manual, Storm Drainage, Chapter 11.02, and the Howard County Design Manual, Storm Drainage, Chapter 11.03.

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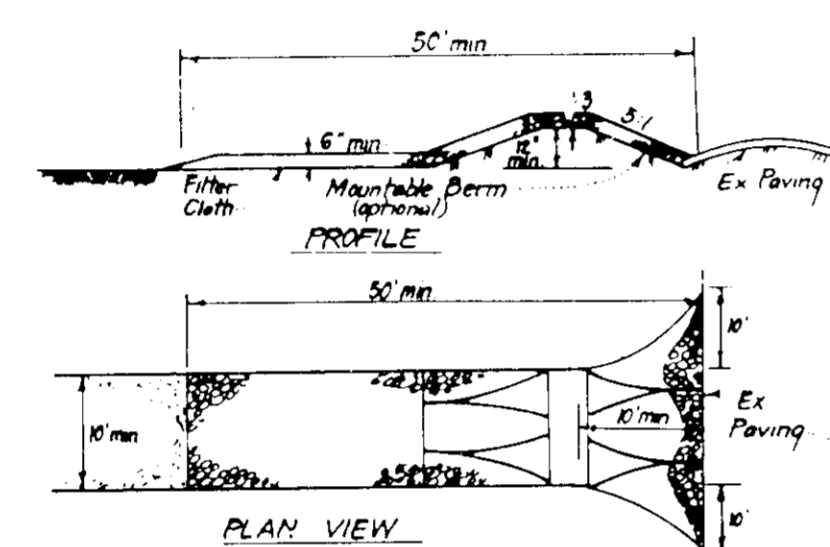
20. All sites shall be stabilized within the time period specified above in accordance with the Maryland Standards and Specifications for Soil Erosion and Sediment Control (MDES) and the Howard County Design Manual, Storm Drainage, Chapter 11.02, and the Howard County Design Manual, Storm Drainage, Chapter 11.03.



CONSTRUCTION SPECIFICATIONS:

1. Rip rap embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The rip rap shall be compacted.
2. The rip rap material for the embankment shall be size of rock and other woody vegetation as well as any other debris, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment of which it is being constructed.
3. All rip rap used in the outlet shall be small rip rap 4" x 8" stone with 1" thickness of 2" aggregate placed on the up-slope side on the small rip rap of embedded rip rap cloth in the rip rap.
4. The rip rap shall be compacted to 1/2 the design depth of the trap.
5. Settlement shall be removed and repairs made as needed.
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.

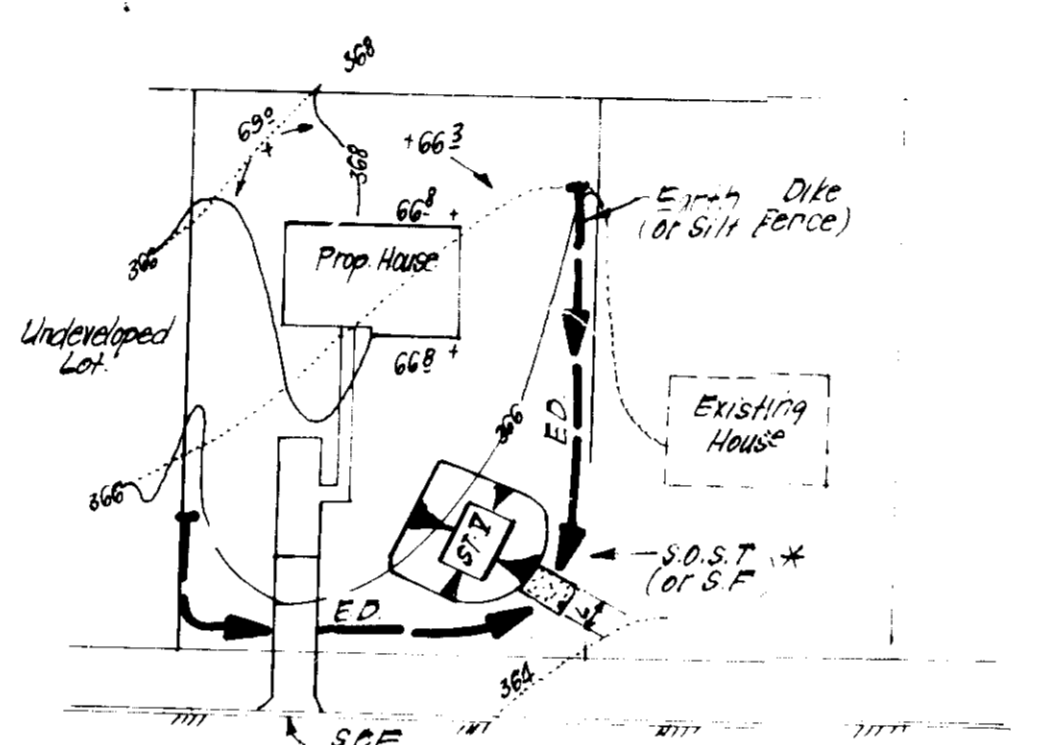
STONE OUTLET SEDIMENT TRAP (S.O.S.T.) S.V.
NO SCALE



CONSTRUCTION SPECIFICATIONS:

1. Stone Size - Use 2" stone or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (exception a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) feet minimum, but not less than the full width of 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 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 maintainable berm with 5' slope will be provided.
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 conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment collected, trapped, 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 rip rap and wheel washers or an approved sediment trapping device.
9. Periodic inspection and record maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE (SCE)
NO SCALE



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

SINGLE LOT SEDIMENT CONTROL PLAN
NO SCALE

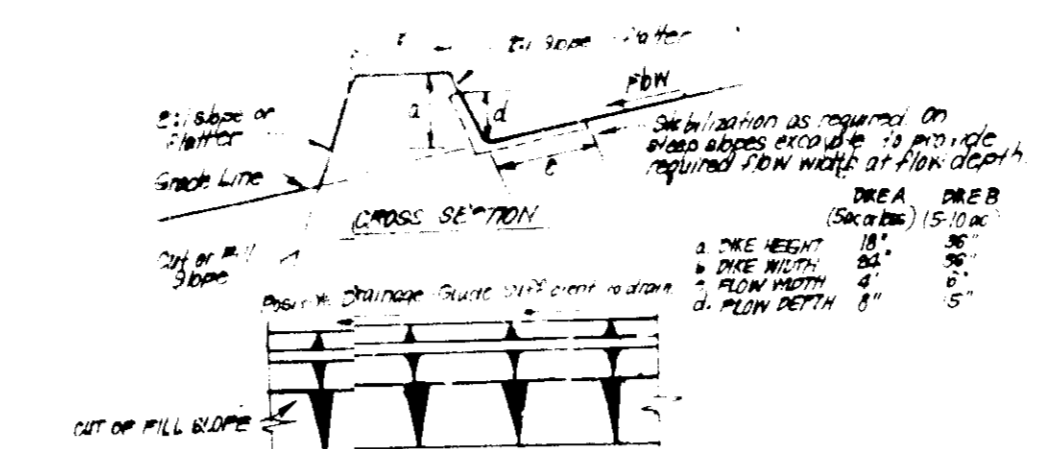
LOT SIZE	VAL	VAL	AC
Depth	2'	3'	2'
Bot. Length	11'	26'	26'
Bot. Width	11'	26'	26'
Bot. Area	121 sq ft	676 sq ft	676 sq ft

* Can be adjusted in field, but bottom area must be as given or greater.

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

Approved _____ Date _____

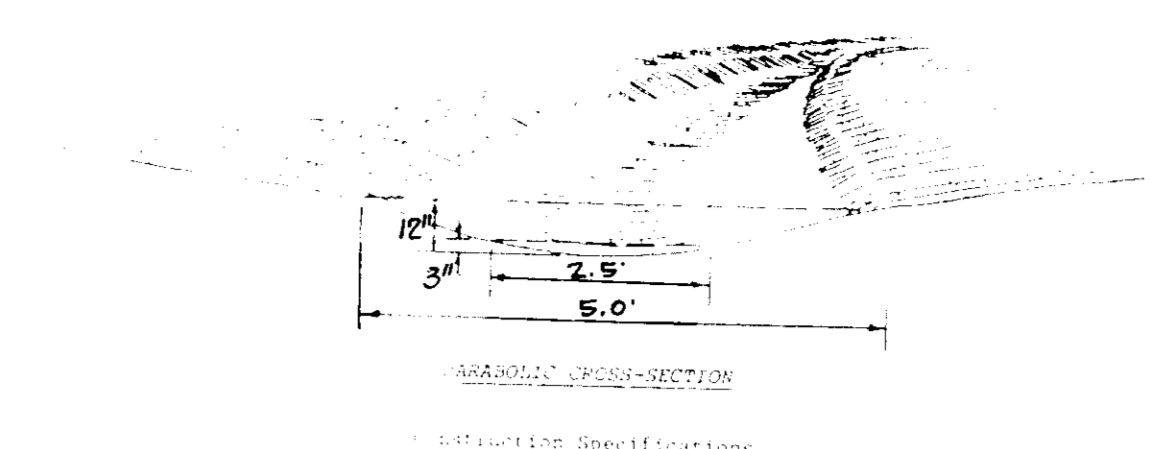
CONSTRUCTION SEQUENCE:	NO OF DAYS
A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.	7
B. Excavate for Foundations and Rough Grade & temporarily stabilize.	30
C. Construct Structures, Sidewalks and Driveways.	200
D. Final Grade and stabilize in accordance with Subs. & Specs.	14
E. Upon approval of the sediment control inspector remove sediment and erosion controls and stabilize.	7



CONSTRUCTION SPECIFICATIONS:

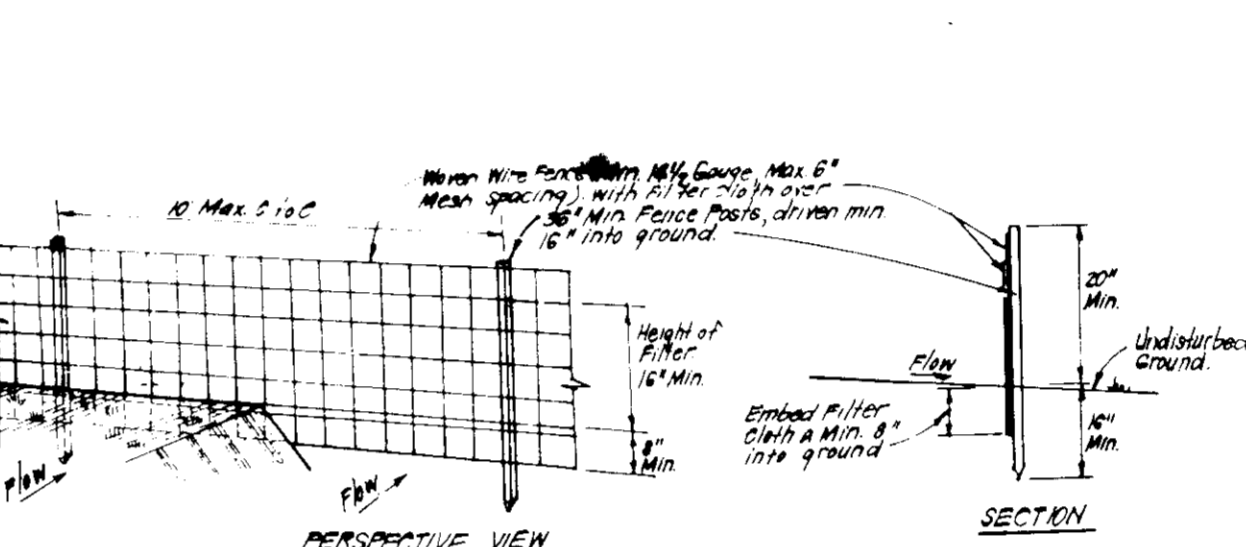
1. All dikes shall be compacted by earth-moving equipment.
2. All dikes shall have positive drainage to an outlet.
3. Top width may be wider and side slopes may be flatter if desired, to facilitate crossing by construction equipment.
4. Heavy sections should be designed to utilize a stabilized soil which is free of organic matter and has a minimum of 10% clay content.
5. Earth dikes shall have an outlet that functions with a minimum of 10% clay content.
6. Earth dikes shall be constructed 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.
7. Stabilization shall be: (A) in accordance with standard specifications for seed and straw mulch or straw per chart below.

EARTH DIKE DETAIL (E.D.)
NO SCALE



DETAIL - GRASSED WATERWAY
NO SCALE

Standard Symbol = GR



CONSTRUCTION SPECIFICATIONS:

1. Weep wire fence to be installed securely to fence posts with wire ties or staples.
2. Filter cloth to be fastened securely to weep wire fence with wire staples every 24" at top and mid section.
3. When 2 sections of filter cloth adjoin each other they shall be fastened by 2" and staples.
4. Maintenance shall be performed as needed and material removed when "bunches" develop in Silt Fence.

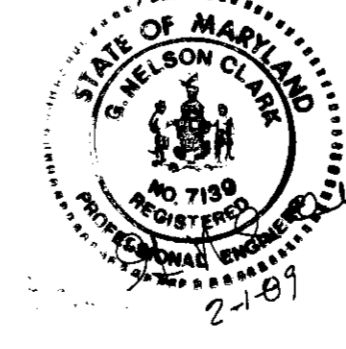
SILT FENCE DETAIL (S)
NO SCALE

DEVELOPER/BUILDERS CERTIFICATE

I/We 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: _____ Date: 1/31/89

Reviewed for HOWARD SOIL CONSERVATION DISTRICT
Signature: _____ Date: 3/28/87
U.S. Soil Conservation Service



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: _____ Date: 2-1-87
G. Nelson Clark

OWNER/DEVELOPER
HOWARD RESEARCH & DEVELOPMENT LAND CO.
10275 LITTLE PATUXENT PKWY.
COLUMBIA, MARYLAND 21044

CLARK • FINEFROCK & SACKETT INC.

SEDIMENT AND EROSION CONTROL PLAN
LOTS 66-84
COLUMBIA
VILLAGE OF LONGREACH
SECTION 3 AREA 3
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

For: Consolidated Home Builders, Inc.
6625 Selnick Drive
Baltimore, Maryland 21227

SDP 89-152