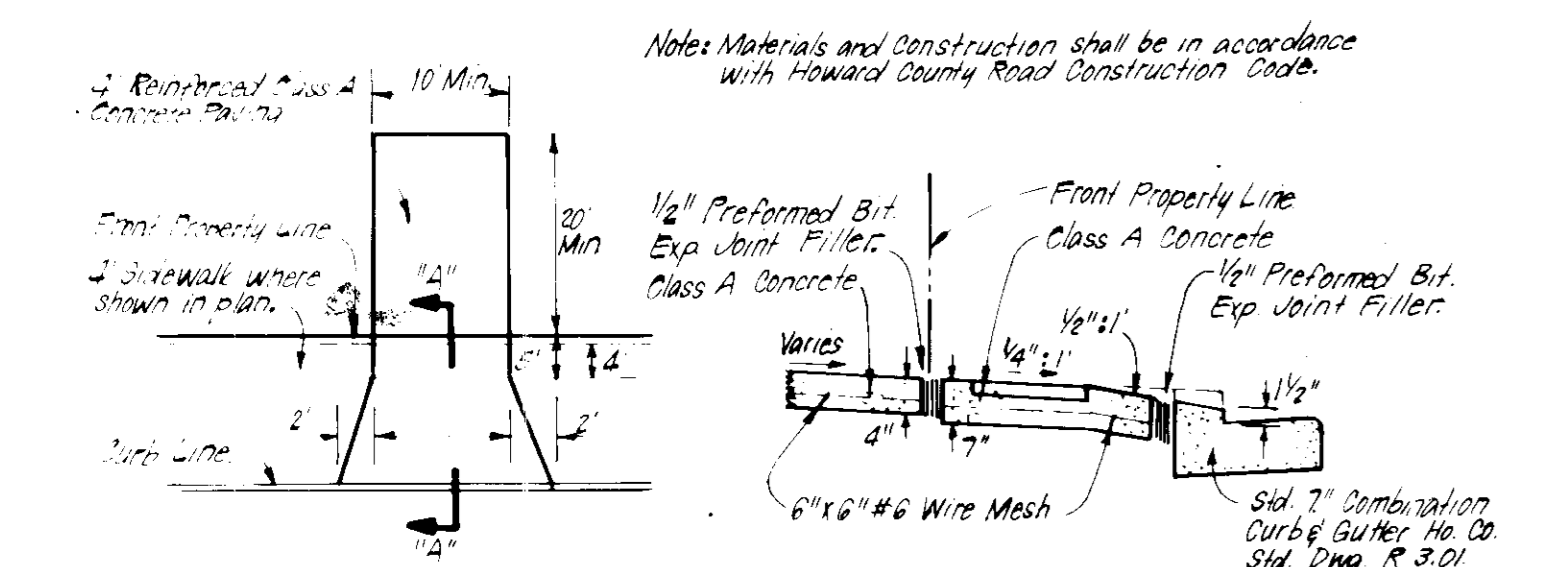


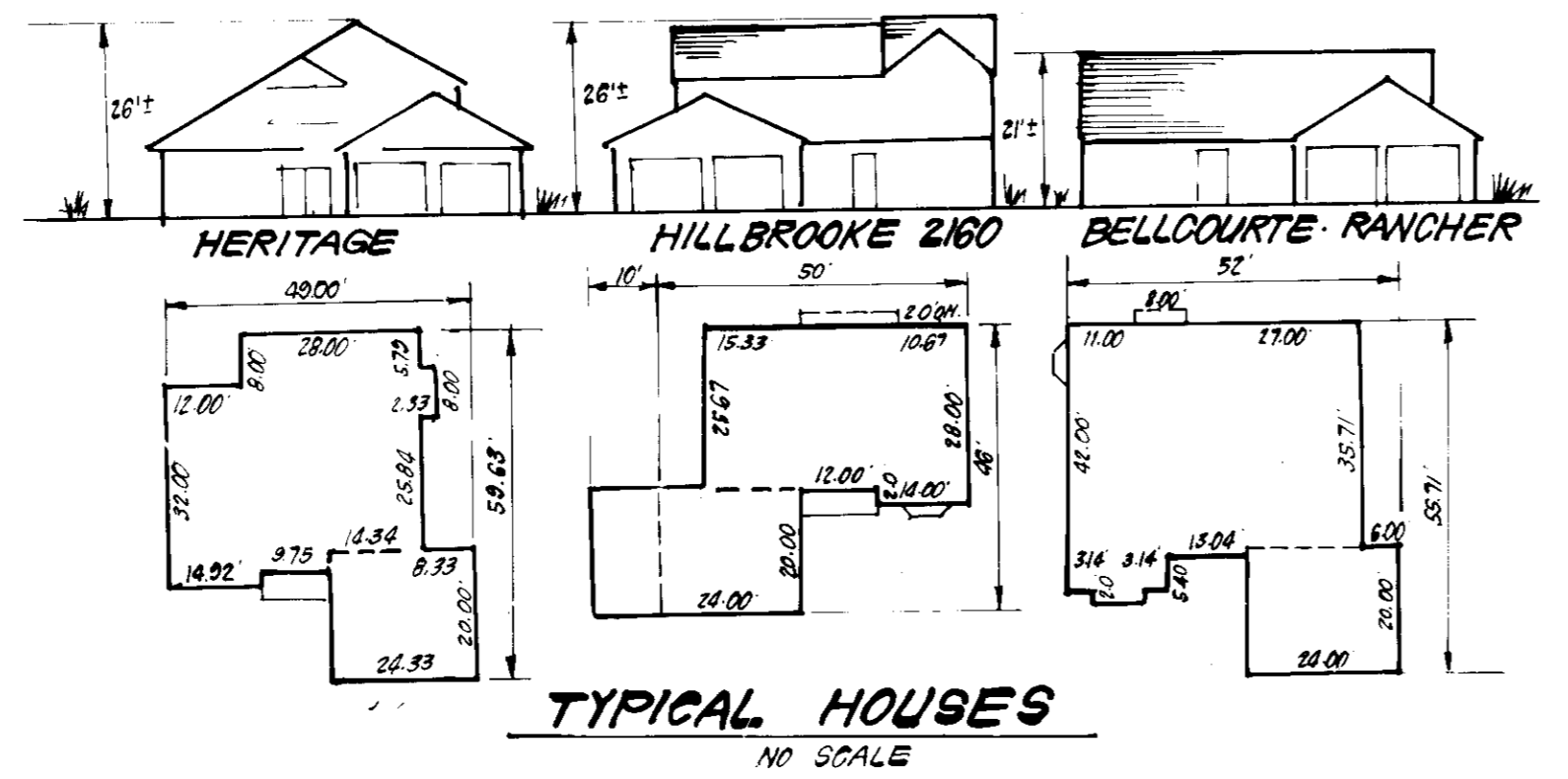
- LEGEND:**
- 1. Contour Interval 2.5'
 - 2. Existing Contour
 - 3. Proposed Contour
 - 4. Spot Elevation
 - 5. Direction of Drainage
 - 6. Existing Trees to be Saved
 - 7. Walk-out Basement

- GENERAL NOTES:**
1. The land included is zoned R-20.
 2. All coordinates are based on the Maryland State Grid System.
 3. The area covered is located on Tax Map # 24, P. 702.
 4. All road ways are public and existing.
 5. Total area is 2.431 Acres.
 6. Total number of Lots: 6.
 7. Any damage to county owned rights-of-way shall be corrected at the developer's expense.
 8. The contractor or developer shall contact the Construction Inspection / Survey Division, 24 hours in advance of commencement of work, at 792-7272.

NO.	REVISION	DATE
1	Revised grading to reflect swale as per Ho. Co. comments & also S.D. Inlet between lots 8 & 9.	7-22-85



DRIVEWAY ABUTTING 9" STD. 7" COMB CURB & GUTTER
NO SCALE



TYPICAL HOUSES
NO SCALE

LOT No.	STREET ADDRESS
1	3604 ASHMEADE DRIVE
2	3608
3	3612
4	3616
7	3609
8	3613

SUBDIVISION NAME BOUNTY VISTA		SECTION AREA 1	LOT PARCEL # 1-4, 7 & 8
PLAT # 6187	BLOCK # 3	ZONE R-20	TAX ZONE MAP REF. DIST. CENSUS TR. 24, PAR 702 2ND 0022
WATER CODE F-14	SEWER CODE 5320000		

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 6-17-81

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING.
DATE: 6-18-85

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 6-14-85

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
DATE: 5-27-85

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

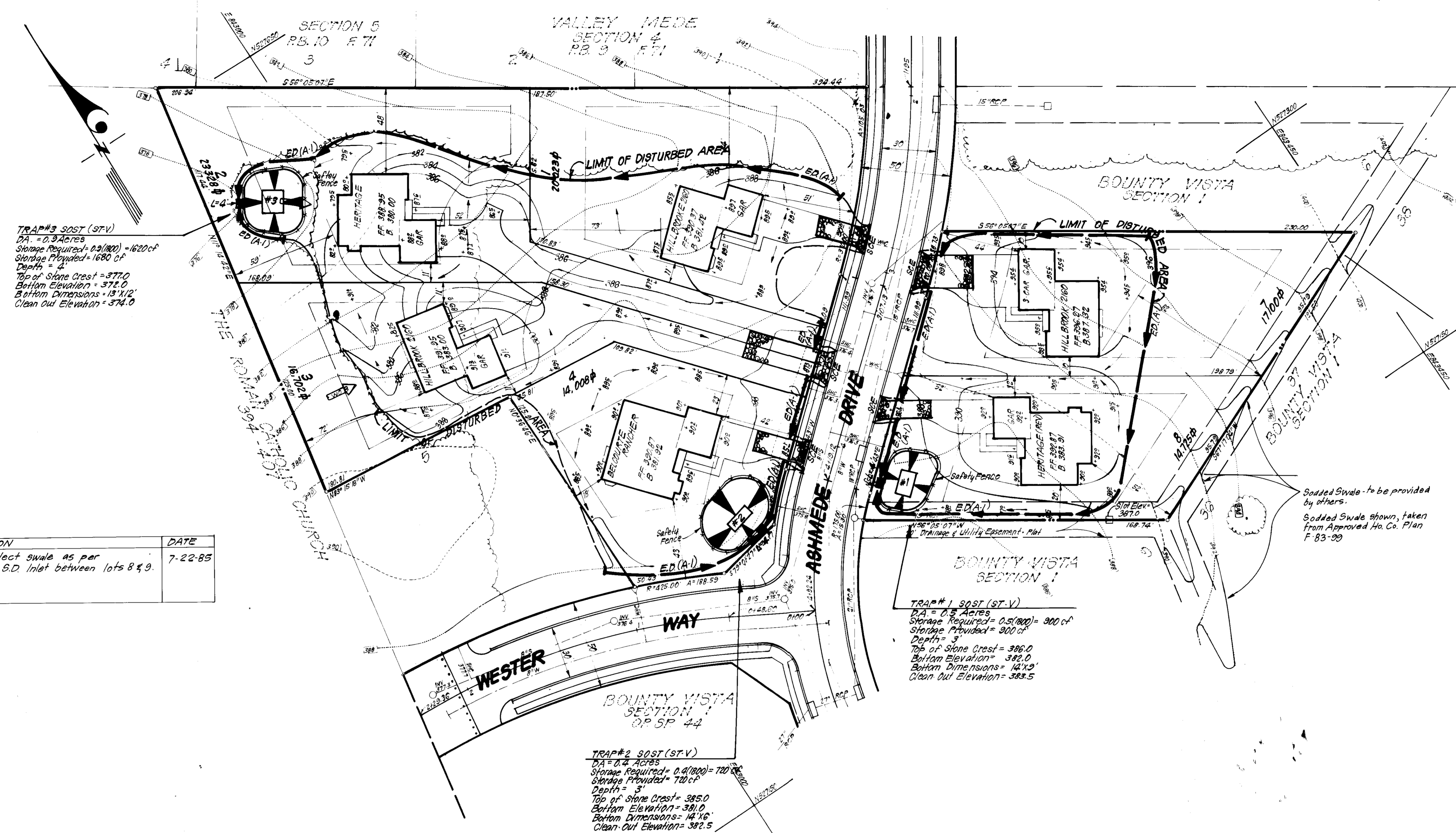
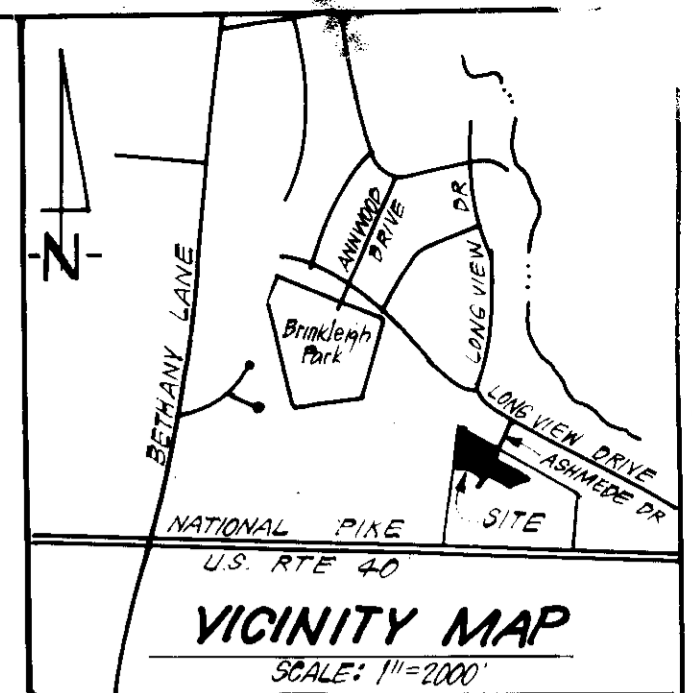
DESIGNED: BAF
DRAWN: K/W
CHECKED: BAF
DATE: 5-2-85

SITE DEVELOPMENT PLAN
LOTS 1 THRU 4 AND LOTS 7 & 8

BOUNTY VISTA
SECTION ONE
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR: J.D. EVANS, INC.
5301 LIGHT HOUSE COURT
COLUMBIA, MD 21046
S.D.P. 85-201

SCALE: 1"=30'
DRAWING: 10F3
JOB NO: 8502
FILE NO: 85-014-X



TRAP#3 SOST (ST-V)
 DA = 0.3 Acres
 Storage Required = 0.3(100) = 1620 CF
 Storage Provided = 1620 CF
 Depth = 4'
 Top of Stone Crest = 377.0
 Bottom Elevation = 372.0
 Bottom Dimensions = 13'x12'
 Clean Out Elevation = 374.0

TRAP#1 SOST (ST-V)
 DA = 0.3 Acres
 Storage Required = 0.3(100) = 300 CF
 Storage Provided = 300 CF
 Depth = 3'
 Top of Stone Crest = 386.0
 Bottom Elevation = 382.0
 Bottom Dimensions = 14'x9'
 Clean Out Elevation = 383.5

TRAP#2 SOST (ST-V)
 DA = 0.4 ACRES
 Storage Required = 0.4(100) = 120 CF
 Storage Provided = 120 CF
 Depth = 3'
 Top of Stone Crest = 385.0
 Bottom Elevation = 381.0
 Bottom Dimensions = 14'x6'
 Clean Out Elevation = 382.5

LEGEND:

1. Contour Interval
2. Existing Contour
3. Proposed Contour
4. Spot Elevation
5. Direction of Drainage
6. Existing Trees to be Saved
7. Walk Out Basement
8. Earth Dike
9. Stabilized Construction Entrance

NO.	REVISION	DATE
1.	Revised grading to reflect swale as per Ho. Co. Comments & also S.D. Inlet between lots 8 & 9.	7-22-85

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
Joseph B. ... 6-17-85
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 6-18-85
 PLANNING DIRECTOR DATE
John W. Munchman
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 6-14-85
 DIRECTOR DATE
...
 CHIEF BUREAU OF ENGINEERING DATE

APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 5-27-85
...

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.
Stephen H. ...
 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."
J. D. Evans 5-2-85
 Signature of Developer/Builder Date
 J. D. EVANS

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 Conserva-
 tion District.
G. Nelson Clark 5-2-85
 Signature Date
 G. Nelson Clark



SUBDIVISION NAME	SECTION AREA	LOT PARCELS #
BOUNTY VISTA	1	1-4, 7 & 8
PLAT #	BLOCK #	ZONE
6187	R-20	2d, Part 702
TAX CODE	MAP	ELC DIST
WATER CODE	SEWER CODE	CENSUS TR

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

DESIGNED: JLS
 DRAWN: K/W
 CHECKED: JLS
 DATE: 5-2-85

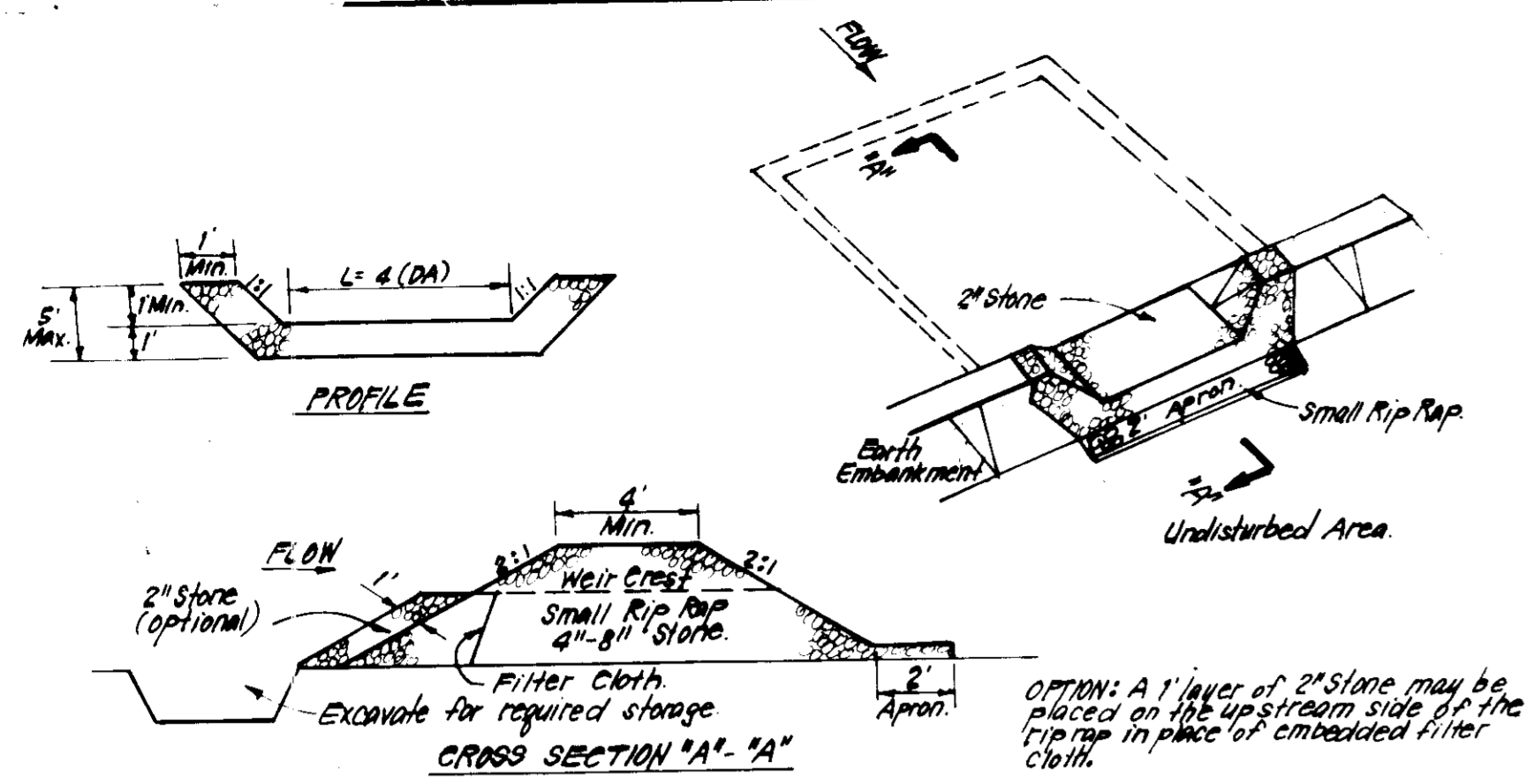
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 DRAWING: 2 OF 3
 JOB NO.: 85-01
 FILE NO.: 85-0129E

SEDIMENT & EROSION CONTROL PLAN
 LOTS 1 THRU 4 AND LOTS 7 & 8

BOUNTY VISTA
 SECTION ONE
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

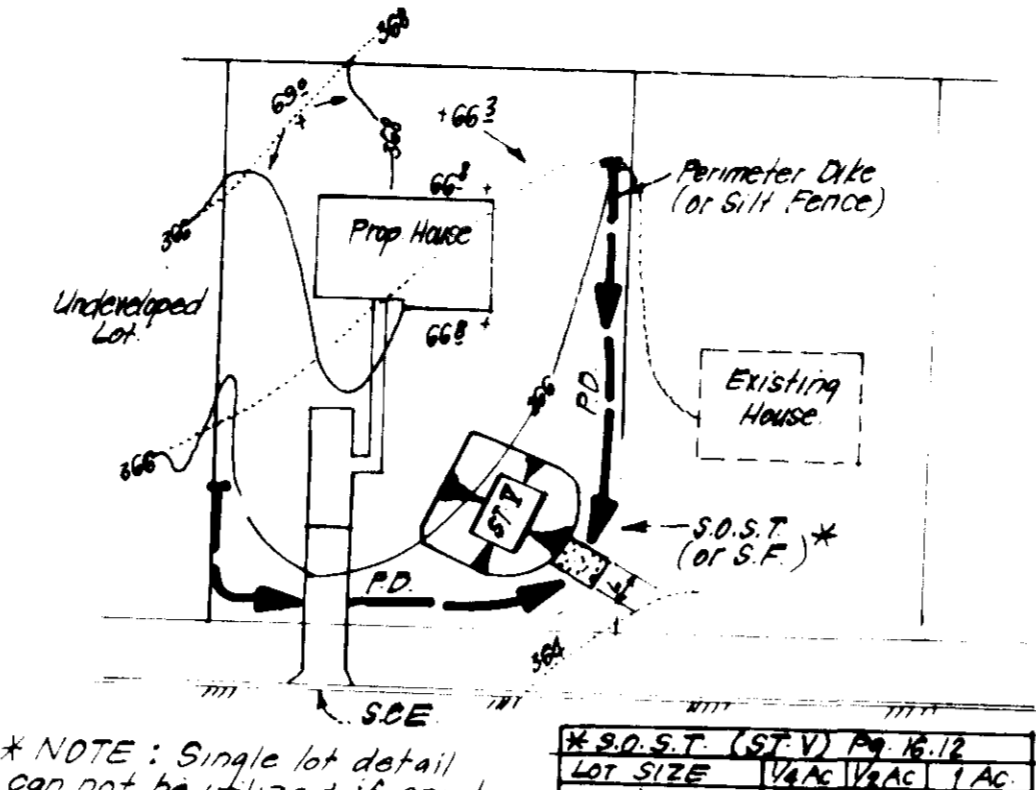
FOR: J. D. EVANS, INC.
 5301 Light House Court
 Columbia, Md. 21046

SDP 85-201



- CONSTRUCTION SPECIFICATIONS:**
1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The soil area shall be cleared.
 2. The fill material for the embankment shall be free of rocks and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing 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\"/>

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



SINGLE LOT SEDIMENT CONTROL PLAN
NO SCALE

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.

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 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).
- 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 rotted 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.

Soil Amendment: 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 2 1/2 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 rotted 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.

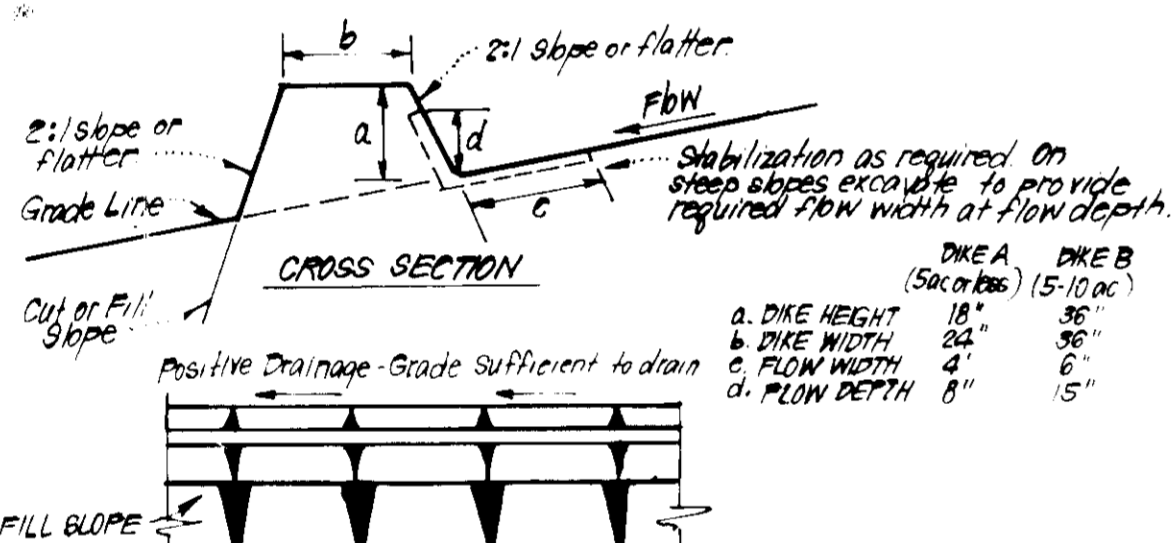
Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

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 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.
- 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. 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.
- 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	2.421 Acres
Area Disturbed	1.662 Acres
Area to be roofed or paved	0.491 Acres
Area to be vegetatively stabilized	1.171 Acres
Total Cut	1460 Cu. yds
Total Fill	3260 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 DPW 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 a "As-Built" 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 N/A L.F.

CONSTRUCTION SEQUENCE:	No. of Days
A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.	5
B. Excavate for foundations and Rough Grade.	14
C. Construct Structures, Sidewalks and Driveways.	45
D. Final Grade and stabilize in accordance with Stds. & Specs.	7
E. Upon approval of the sediment control inspector, remove sediment and erosion control and stabilize.	5



- 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 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.
 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.

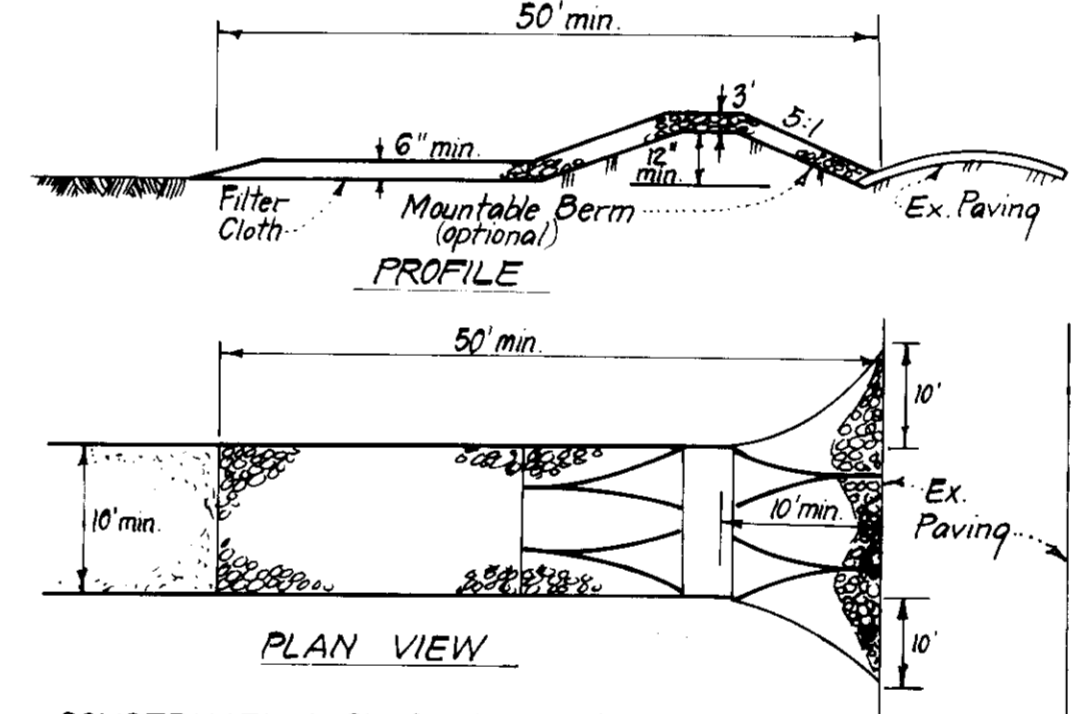
FLOW CHANNEL STABILIZATION

TYPE OF 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 w/rite or Excelsior; Sod; 2" Stone
3	5.1 - 8.0%	Seed w/rite or Sod; 2" Stone	Lined Rip Rap 4"-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. 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 5:1 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 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.
 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)
NO SCALE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 6-17-85

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE: 6-18-85

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 5-27-85

APPROVED DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 5-27-85

Reviewed for Howard S.C.D.
Name: Howard S.C.D.
and meets Technical Requirements
Signature: [Signature]
Date: 6-17-85
U.S. Soil Conservation Service

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

Signature: [Signature]
Date: 6/28/85

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: J.D. Evans
Date: 5-2-85

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: [Signature]
Date: 5-2-85

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

DESIGNED: JLS
DRAWN: KIW
CHECKED: JLS
DATE: 5-2-85

SEDIMENT & EROSION CONTROL PLAN
LOTS 1 THRU 4 AND LOTS 7 & 8
BOUNTY VISTA
SECTION ONE
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
FOR: J.D. EVANS, INC.
5391 Light House Ct.
Columbia, Md 21044

SCALE: As Shown
DRAWING: 30F3
JOB NO.: 85-014
FILE NO.: 85-014 SE

SDP-85-201