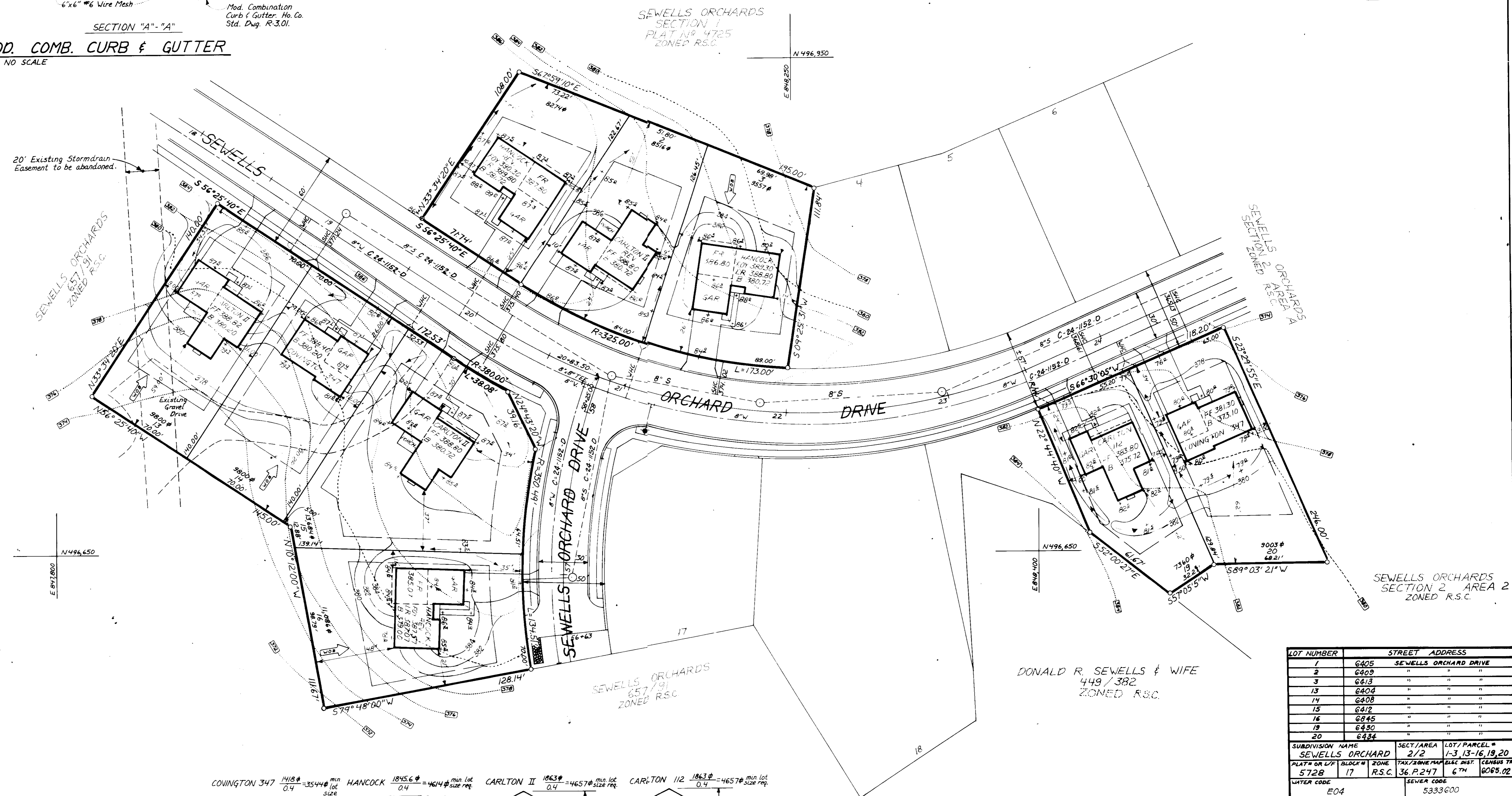
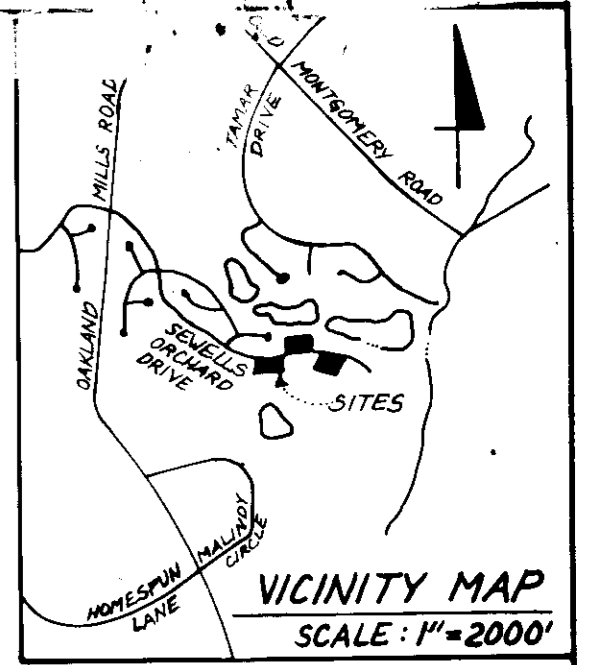


DRIVEWAY ABUTTING MOD. COMB. CURB & GUTTER
NO SCALE

- LEGEND**
- 1. Contour Interval 2 Ft.
 - 2. Existing Contour
 - 3. Proposed Contour
 - 4. Spot Elevation
 - 5. Direction of Drainage
 - 6. Walk-Out-Basement

- GENERAL NOTES**
1. All coordinates are based on Howard County Control Station "Sewell."
 2. The total area included in this plan is 1,999 Acres.
 3. All roadways are public & existing.
 4. Any damage to county owned rights of way shall be corrected at the developer's expense.
 5. Total Number of Lots: 9.



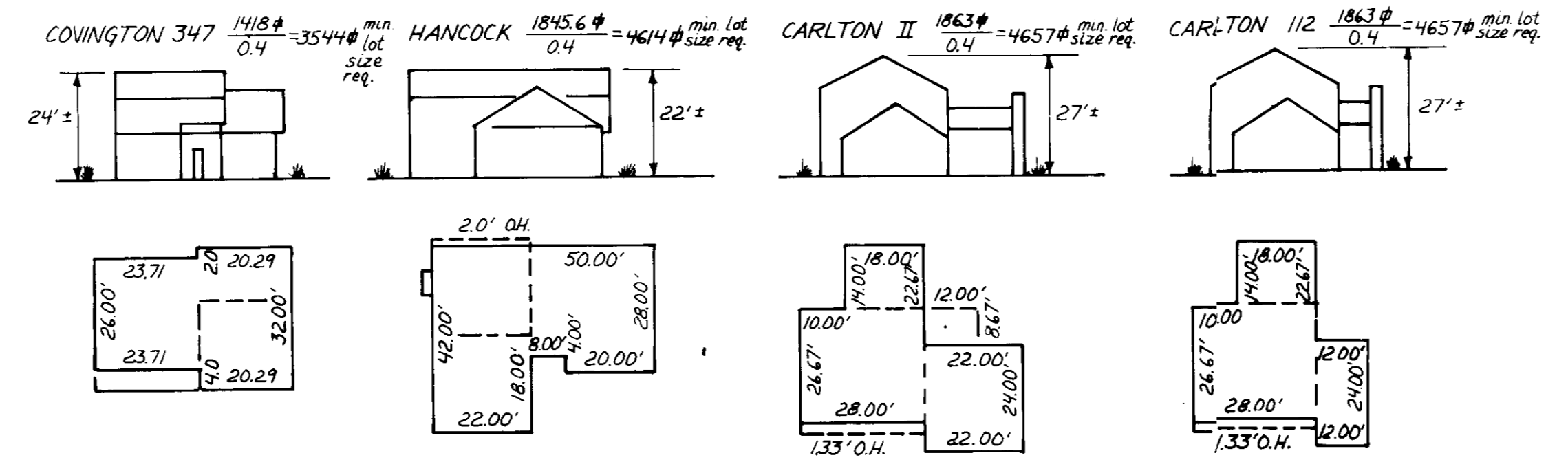
LOT NUMBER	STREET ADDRESS
1	6405 SEWELLS ORCHARD DRIVE
2	6409 " " "
3	6413 " " "
13	6404 " " "
14	6408 " " "
15	6412 " " "
16	6415 " " "
19	6430 " " "
20	6424 " " "

SUBDIVISION NAME	SECT./AREA	LOT/PARCEL #
SEWELLS ORCHARD	2/2	1-3, 13-16, 19, 20

PLAT OR L.P. BLOCK #	ZONE	TAX/ZONE MAP ELEC. DIST.	CENSUS TR.
5728	17	R.S.C. 36.P.247	6 TH 8065.02

WATER CODE	SEWER CODE
E04	5333600

DONALD R. SEWELLS & WIFE
449/382
ZONED R.S.C.



TYPICAL HOUSES
NO SCALE

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

James P. [Signature] COUNTY HEALTH OFFICER DATE 10-30-84

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

[Signature] PLANNING DIRECTOR DATE 10-31-84

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

[Signature] DIRECTOR DATE 10-26-84

CHIEF BUREAU OF ENGINEERING DATE 10-8-84

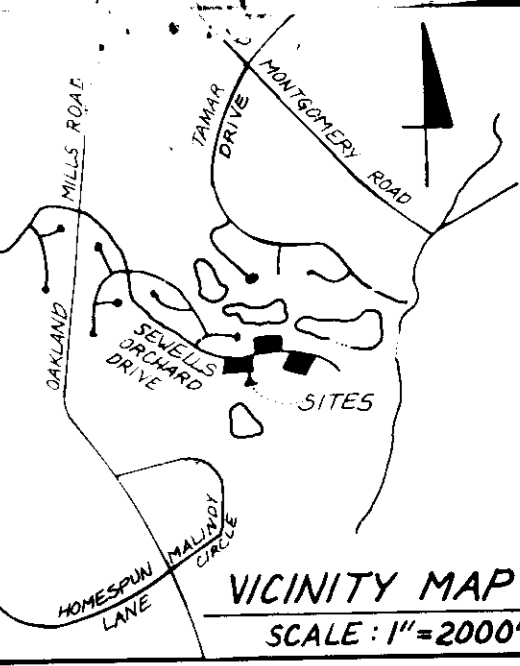
CLARK · FINEFROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS

11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 593-3400

DESIGNED JME	SITE DEVELOPMENT PLAN LOTS 1 THRU 3, 13 THRU 16, 19 AND 20	SCALE 1"=30'
DRAWN CJM		DRAWING 1 OF 3
CHECKED JME	SECTION 2 AREA 2 6 TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 84-098
DATE 9-10-84		FOR: DIVERSIFIED HOUSING CORP. Suite 211, American City Bldg. Columbia, Md. 21044

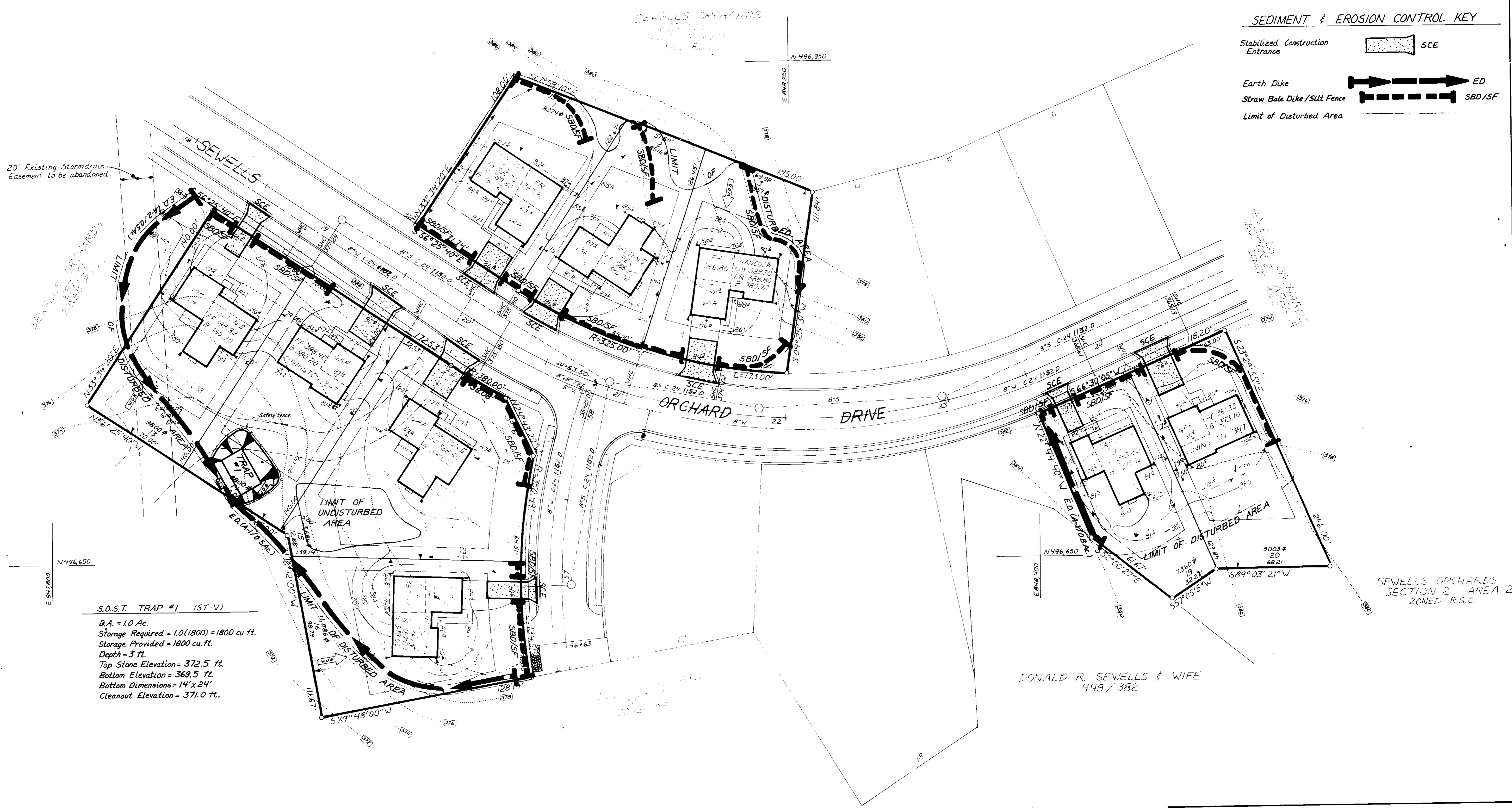
LEGEND

- 1. Contour Interval 2 FT.
- 2. Existing Contour ---
- 3. Proposed Contour ---
- 4. Spot Elevation • 80'
- 5. Direction of Drainage →
- 6. Walk-Out-Basement →



SEDIMENT & EROSION CONTROL KEY

- Stabilized Construction Entrance [Symbol] SCE
- Earth Dike [Symbol] ED
- Straw Bale Dike/Silt Fence [Symbol] SBD/SF
- Limit of Disturbed Area [Symbol]



S.O.S.T. TRAP #1 (ST-V)
 D.A. = 1.0 Ac.
 Storage Required = 1.0(1800) = 1800 cu.ft.
 Storage Provided = 1800 cu.ft.
 Depth = 3 ft.
 Top Stone Elevation = 372.5 ft.
 Bottom Elevation = 369.5 ft.
 Bottom Dimensions = 14' x 24'
 Cleanout Elevation = 371.0 ft.

APPROVED FOR ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 10-8-84

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER
 APPROVED FOR PLANNING & ZONING
 HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR

Reviewed for HOWARD COUNTY, M.D.
 Name
 and meet requirements
 Signature Date
 U.S. Soil Conservation Service

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

Approved Date

DEVELOPER'S/BUILDER'S CERTIFICATE
 "We certify that all development and construction will be done according to this plan of layout and plan for erosion and sediment control and that all requirements involved in the construction project will have a Certificate of Approval from the 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."

Paul Montgomery, Inc. 9-10-84
 Signature of Developer/Builder
 PAUL MONTGOMERY

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 9-10-84
 Date

CLARK · FINEFROCK & SACKETT
 ENGINEERS · PLANNERS · SURVEYORS
 1131E LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 (301) 563-3400

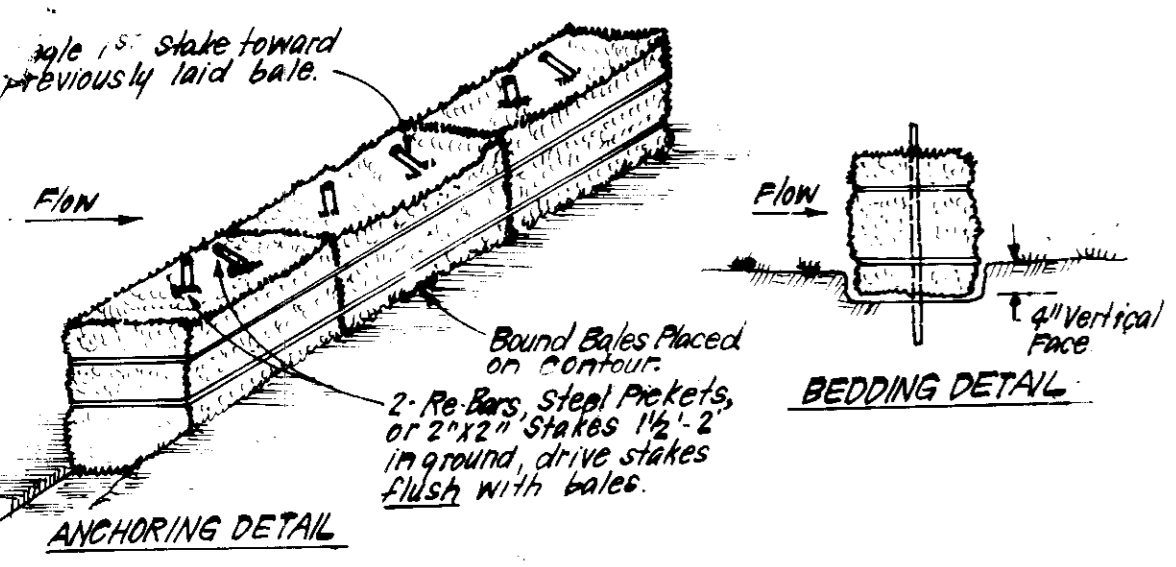
DESIGNED	J.P.A.	SCALE	1"=30'
DRAWN	C.J.M.	DRAWING	2 of 3
CHECKED	J.P.A.	JOB NO.	84-098
DATE	9-6-84	FILE NO.	84-098SE

SEDIMENT & EROSION CONTROL PLAN
 LOTS 1 THRU 3, 13 THRU 16, 19 AND 20
SEWELLS ORCHARD
 SECTION 2 AREA 2
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 FOR: DIVERSIFIED HOUSING CORP.
 Suite 211, American City Bldg.
 Columbia, Md. 21044

SDP-85-49

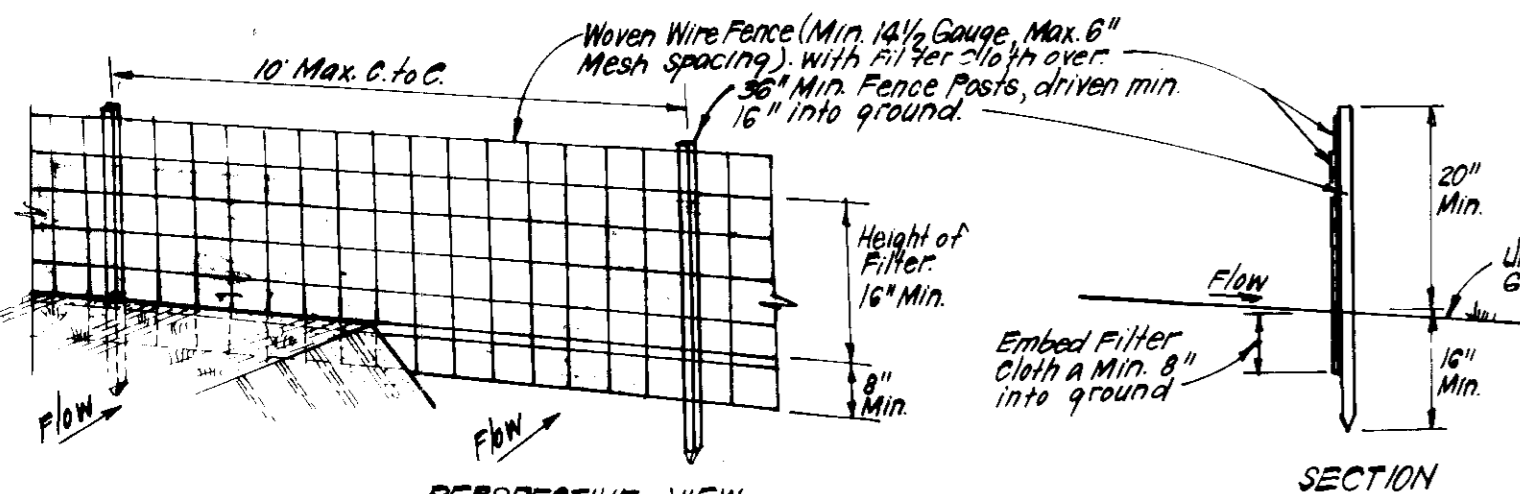
GENERAL NOTES

- Grading Permits shall be obtained prior to installation of sediment control.
- All Sediment Control Measures will be installed and stabilized according to this plan prior to any other grading, clearing or disturbance of existing surface of site.
- Notify the Bureau of Inspections and Permits at least 24 hours before starting any work.
- All Sediment Control Practices to conform to the "Standards and Specs. for Soil Erosion and Sediment Control in Developing Areas", and shall be adjusted to meet actual field conditions.
- All structural Sediment Control Measures are to remain in place until permission for their removal has been obtained from the Bureau of Inspections and Permits.
- On Site Inspection and maintenance of all Sediment Control measures including clean-out of Sediment Traps and Dikes, and proper establishment of all planned vegetative measures will be the responsibility of the developer or his representative on the site, on a continuing day to day basis.
- It will be the developer's responsibility to provide additional sediment & Erosion Control Devices to protect stabilized areas during construction.
- The contractor shall keep all public roads free of sediment deposits left from traffic leaving construction site.
- Approval of this plan is conditional upon the approval of Sediment Control Plan for the off-site waste or bottom area prior to the import of any borrow or export of waste to or from this site.
- See Pages 51.01 - 51.08 of the Maryland State & Specs for Soil Erosion and Sediment Control For Permanent Seeding and Pages 50.01 - 50.05 for Temporary Seeding.
- As per C.O.M.A.R. 08.05.01.06 -- "Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within (a) seven calendar days as to the surface of all perimeter control/dikes, swales, ditches, perimeter slopes, and all slopes greater than 3 horizontal to one vertical (3:1) and (b) fourteen days as to all other disturbed or graded areas on the project site."
- All Pipes to be blocked at the end of each day (See detail below).
- The total amount of Straw Bale Dikes / Silt Fence shown = 775 LF
- SITE ANALYSIS:**
 - A Total Area: 1.999 Acres
 - B Area to be Roofed: 0.298 Acres
 - C Area to be Paved: 0.161 Acres
 - D Area to be Seeded: 1.275 Acres
 - E Area Undisturbed: 0.265 Acres
- CONSTRUCTION SEQUENCE:**
 - A Install Sediment & Erosion Control Devices and Stabilize.
 - B Excavate for foundations and Rough Grade.
 - C Construct Structures, Driveways & Sidewalks.
 - D Final Grade in accordance with note #10.
- IF houses are to be constructed on an "As Sold" basis, at random, single lot sediment control as shown below, shall be implemented.
- All sediment traps shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chap. 12, of the Howard Co. Design Manual for Storm Drainage.



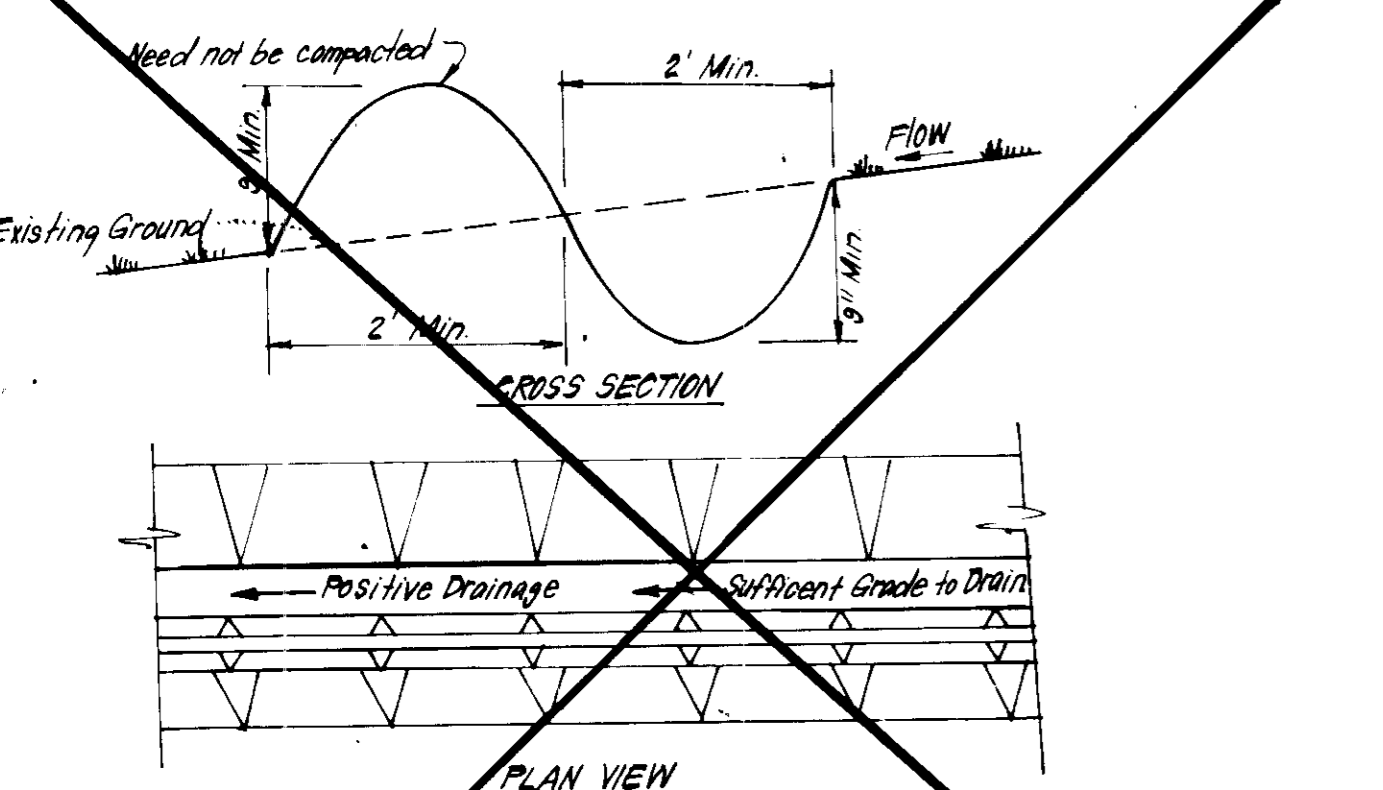
- CONSTRUCTION SPECIFICATIONS:**
- Bales shall be placed at the top of a slope or on the contour and in a row with ends tightly abutting the adjacent bales.
 - Each bale shall be embedded in the soil a min. of 4" and placed so the bindings are horizontal.
 - Bales shall be securely anchored in place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

STRAW BALE DIKE DETAIL (SBD)
NO SCALE



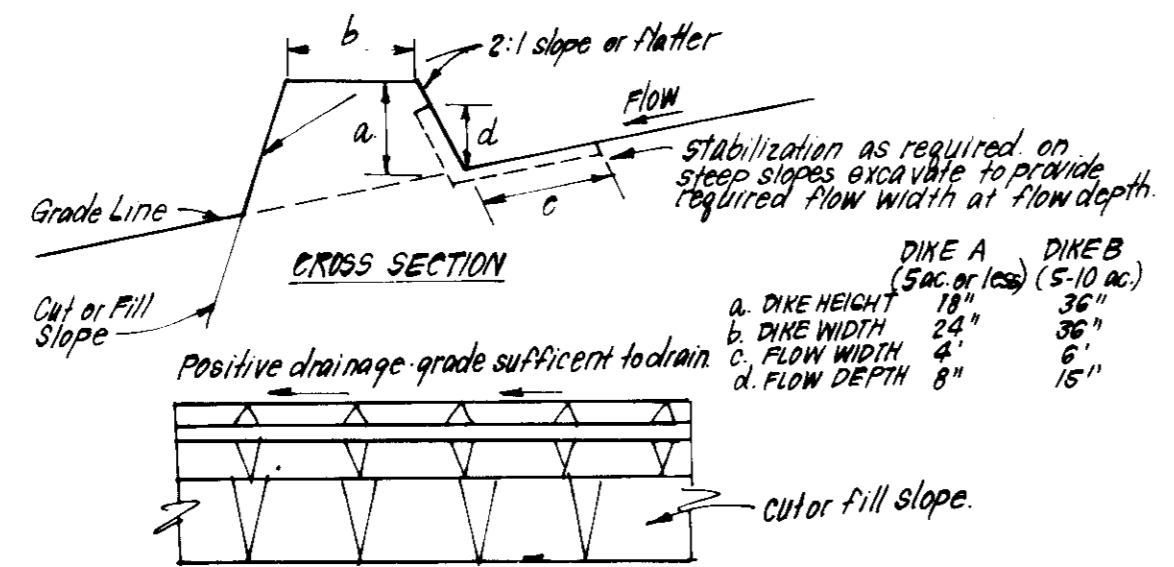
- CONSTRUCTION SPECIFICATIONS:**
- Woven wire fence to be fastened securely to fence posts with wire ties or staples.
 - Filter Cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid section.
 - When 2 sections of filter cloth adjoin each other they shall be overlapped by 6" and stapled.
 - 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 K, Mira's 100X, Stabilink, T140N or Approv. equal
PREFABRICATED UNIT: Geofab, EnviroFence, or Approv. equal

SILT FENCE DETAIL (SF)
NO SCALE



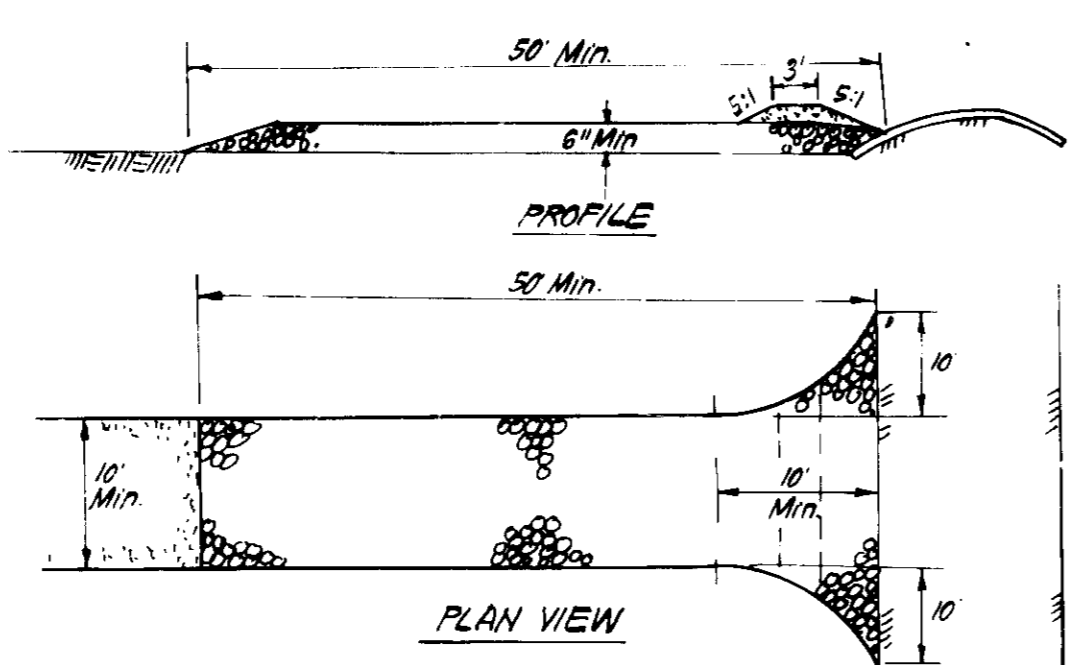
- CONSTRUCTION SPECIFICATIONS:**
- All perimeter dike/swale shall have uninterrupted positive grade to an outlet.
 - Diverted runoff from a disturbed area shall be conveyed to a sediment trapping device.
 - Diverted runoff from an undisturbed area shall outlet into an undisturbed stabilized area at an existing velocity.
 - The swale shall be excavated or shaped to line grade, and cross sections required to meet the criteria specified in the standard.
 - Stabilization of the areas disturbed by the dike and swale shall be done in accordance with the standards and specs for seed and straw mulch, and shall be done within 14 days.
 - Periodic inspection and required maintenance must be provided after each rain event.

PERIMETER DIKE/SWALE DETAIL (PDS)
NO SCALE



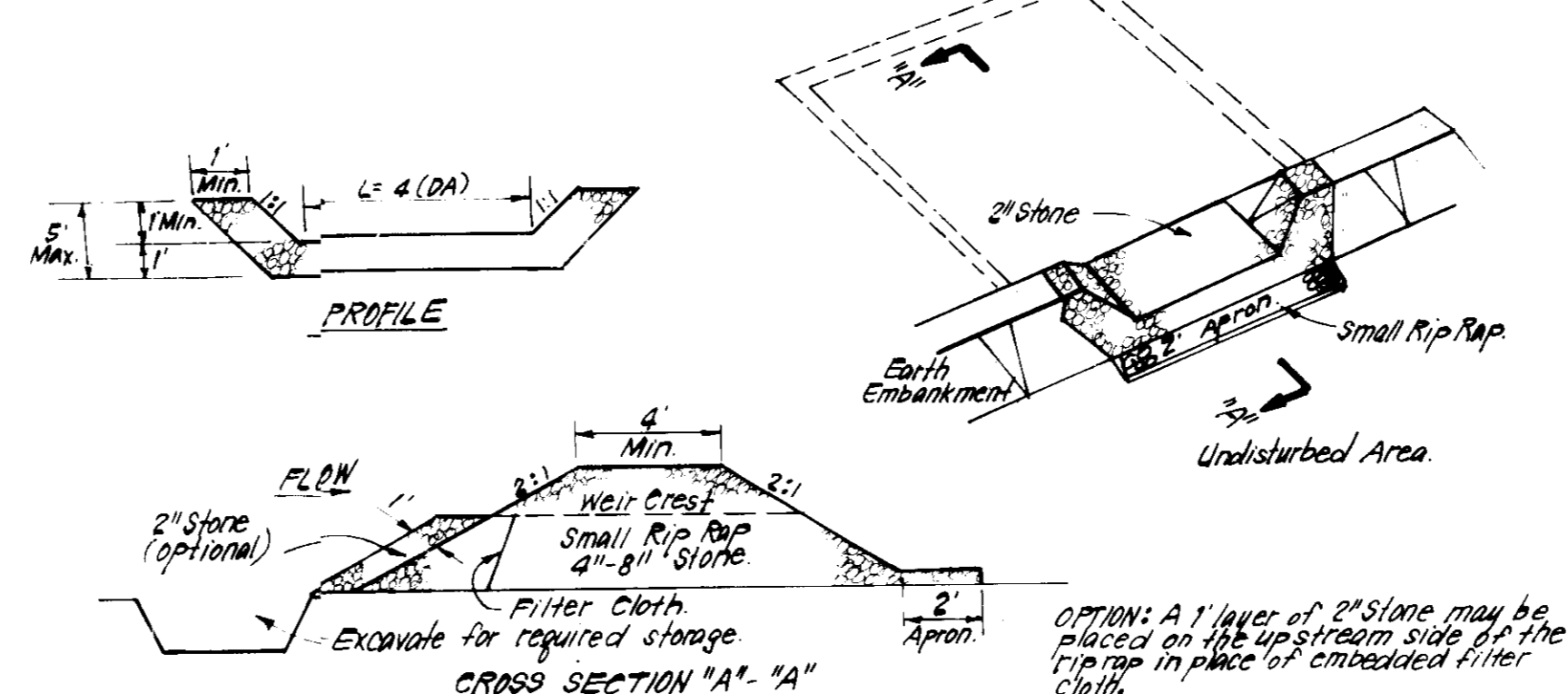
- CONSTRUCTION SPECIFICATIONS:**
- All dikes shall be compacted by earth-moving equipment.
 - All dikes shall have positive drainage to an outlet.
 - Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction traffic.
 - Field location should be adjusted as needed to utilize a stabilized safe outlet.
 - Earth dikes shall have an outlet that functions with a min. of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin where either the dike or the drainage area above the dike are not adequately stabilized.
 - Stabilization shall be: (A) in accordance with the State & Specs for Seed and Straw Mulch if not in seeding season (B) flow channel as per Std Detail ED-1, pg. 10.03 of the state & Specs.

EARTH DIKE DETAIL (ED)
NO SCALE



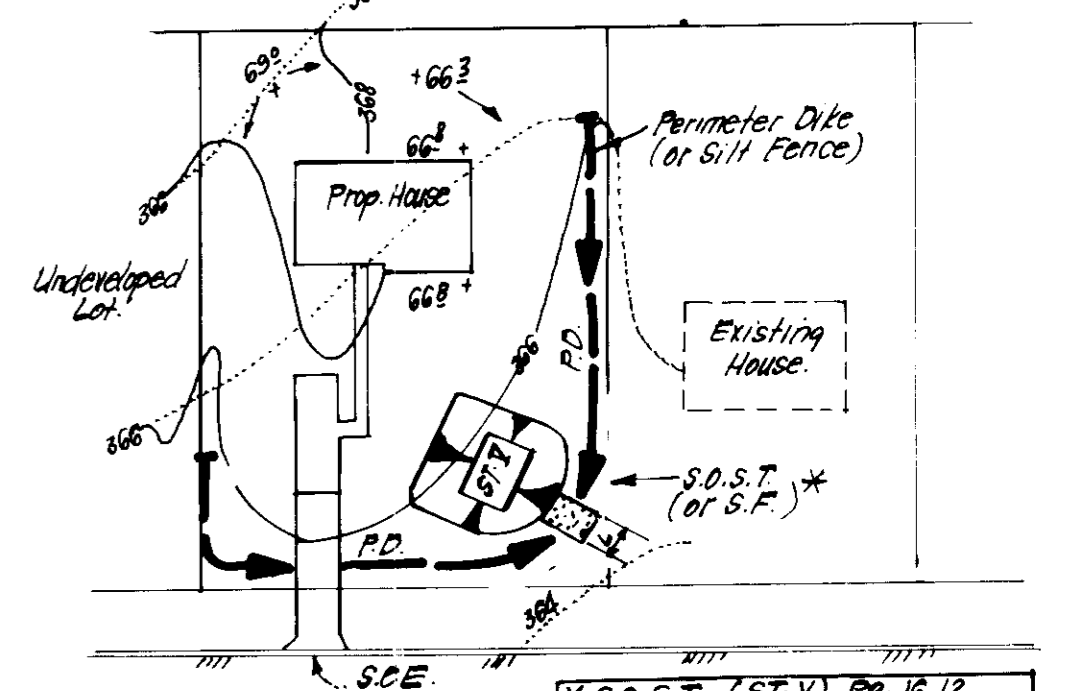
- CONSTRUCTION SPECIFICATIONS:**
- Stone Size - Use 2" Stone, or reclaimed or recycled concrete equivalent.
 - Length - As required, but not less than 50 feet (except on a single residence lot where a 30 min. length would apply).
 - Thickness - Not less than 6"
 - Width - Top foot min, but not less than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

STABILIZED CONSTRUCTION ENTRANCE (S.C.E.)
NO SCALE



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

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



H.S.O.S.T. (S.T.V.) P# 16-12			
LOT SIZE	1/4 AC	1/2 AC	1 AC
L	2'	3'	6'
Depth	2'	2'	2'
Bot. Length	11'	26'	26'
Bot. Width	11'	11'	26'
Bot. Area	121 sq ft	276 sq ft	676 sq ft

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

SINGLE LOT SEDIMENT CONTROL PLAN
NO SCALE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 10-8-84
M. J. FUM

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
Serge J. Rodgers 10-30-84
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
John W. Mulvihill 10-31-84
PLANNING DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
10-26-84
DIRECTOR DATE

CHIEF BUREAU OF ENGINEERING
10-20-84
DATE



ENGINEER'S CERTIFICATE

I hereby certify that this plan for Erosion and Sediment Control meets 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 9-10-84
Date

DEVELOPER'S/BUILDER'S CERTIFICATE

"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."

Paul Montgomery 9-10-84
Signature of Developer/Builder Date
PAUL MONTGOMERY

Reviewed for HOWARD S.C.D. Name and meets Technical Requirements
Signature 10-17-84 Date
U.S. Soil Conservation Service

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

Approved 10-17-84 Date

CLARK · FINEFROCK & SACKETT
ENGINEERS · PLANNERS · SURVEYORS
1131E LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 (301) 583-3400

DESIGNED J.P.A.	SEWELLS ORCHARD SECTION 2 AREA 2 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: DIVERSIFIED HOUSING CORP. Suite 211, American City Bldg. Columbia, Md. 21044 SDP-85-49	SCALE 1"=30'
DRAWN C.J.M.		DRAWING 3 of 3
CHECKED J.P.A.		JOB NO. 84-098
DATE 9-7-84		FILE NO. 84-098 SE