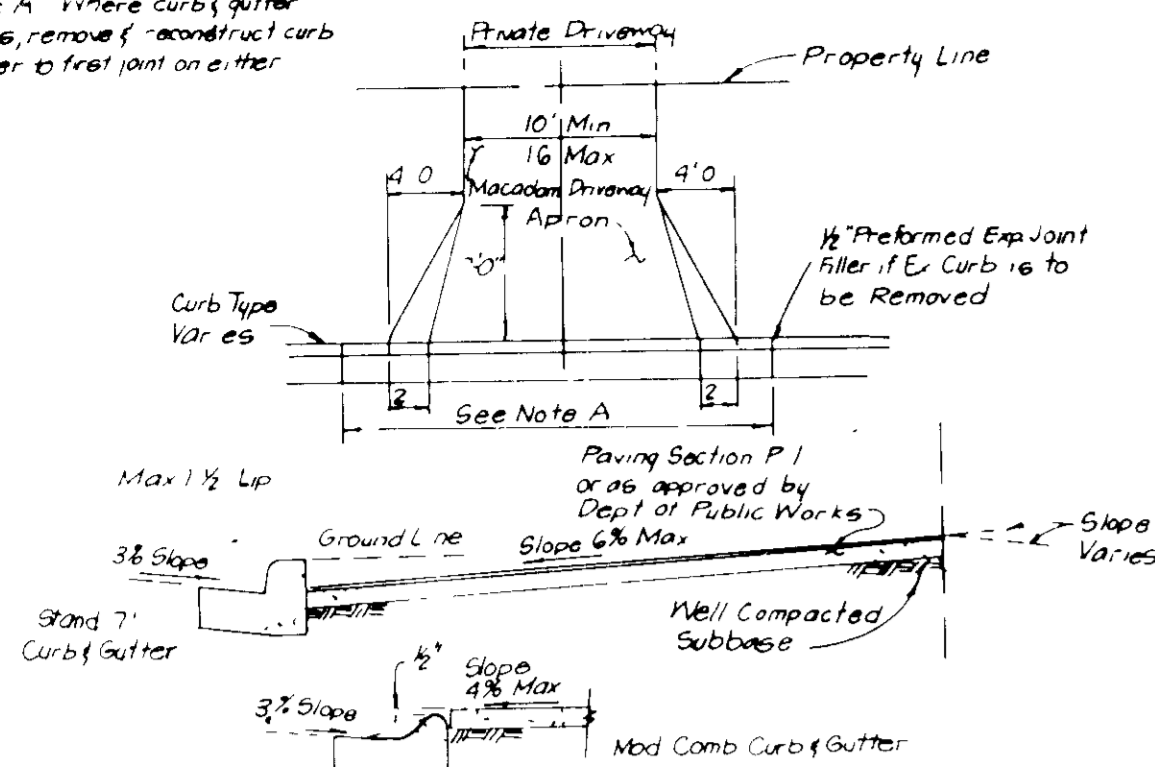
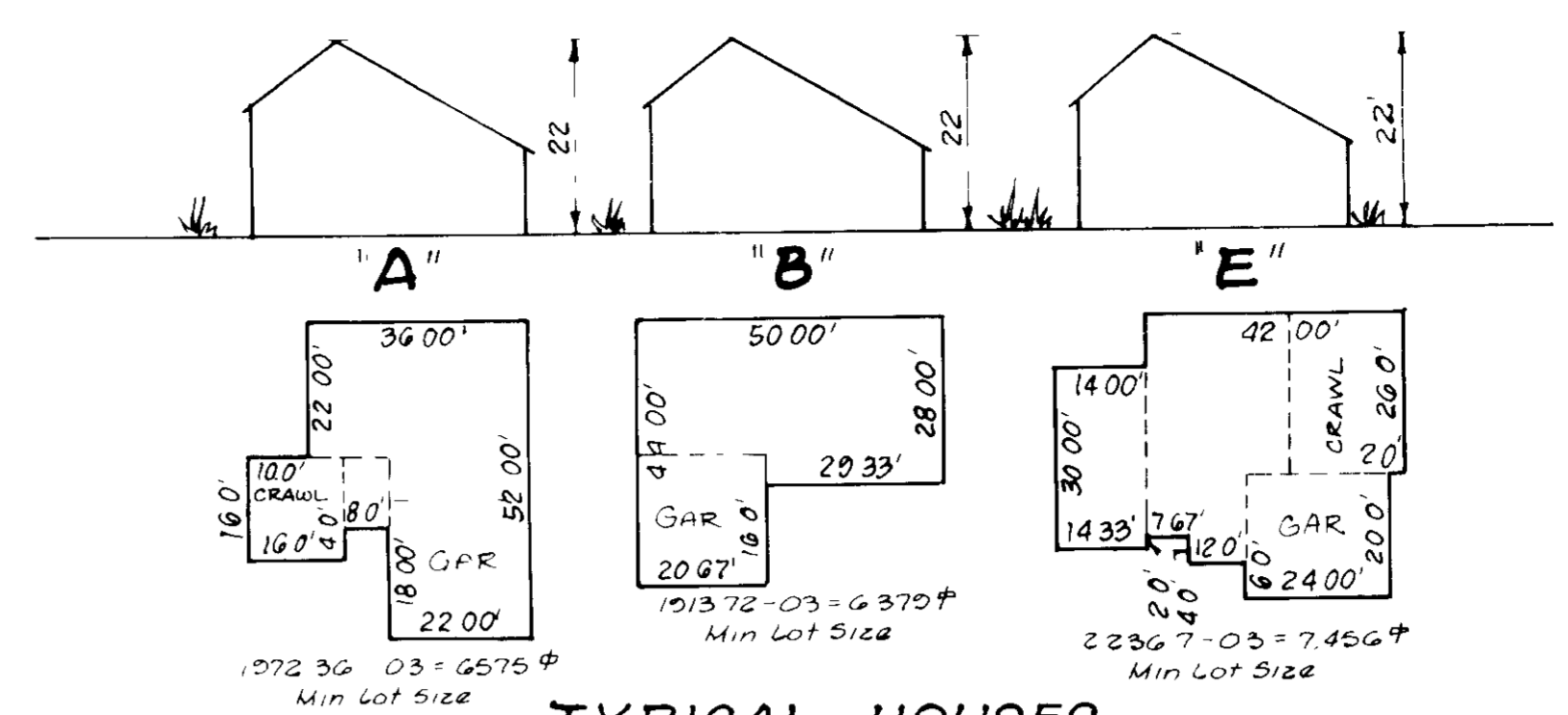


NOTE: A. Where curb/gutter is to be removed, reconstruct curb/gutter to front on either side.

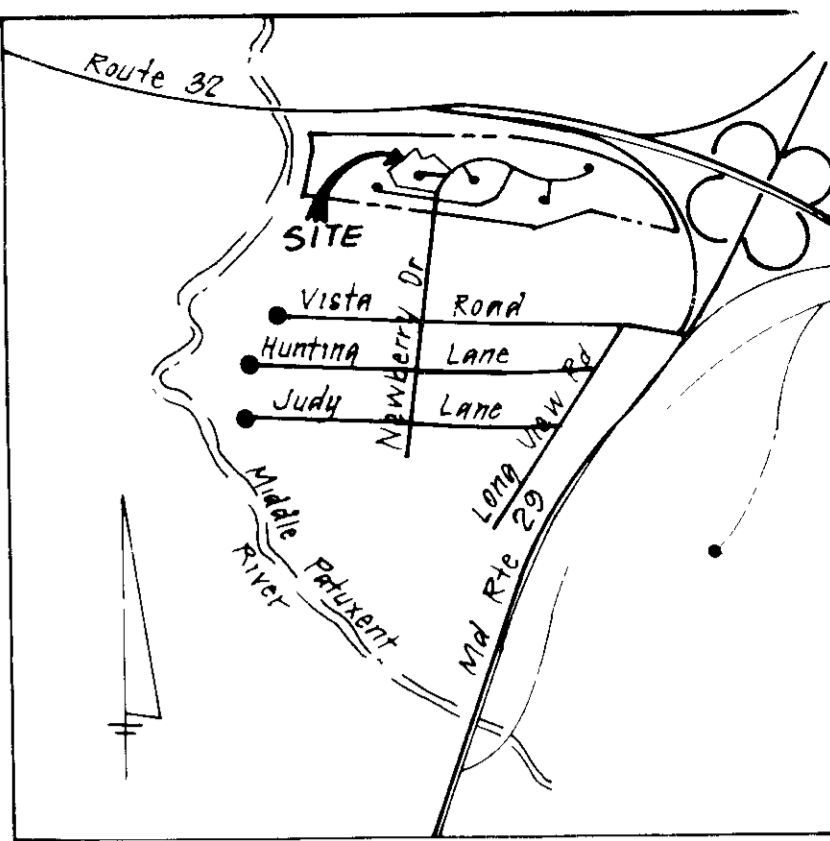


DRIVEWAY ABUTTING CLOSED SECTION WITHOUT CONCRETE SIDEWALK



TYPICAL HOUSES

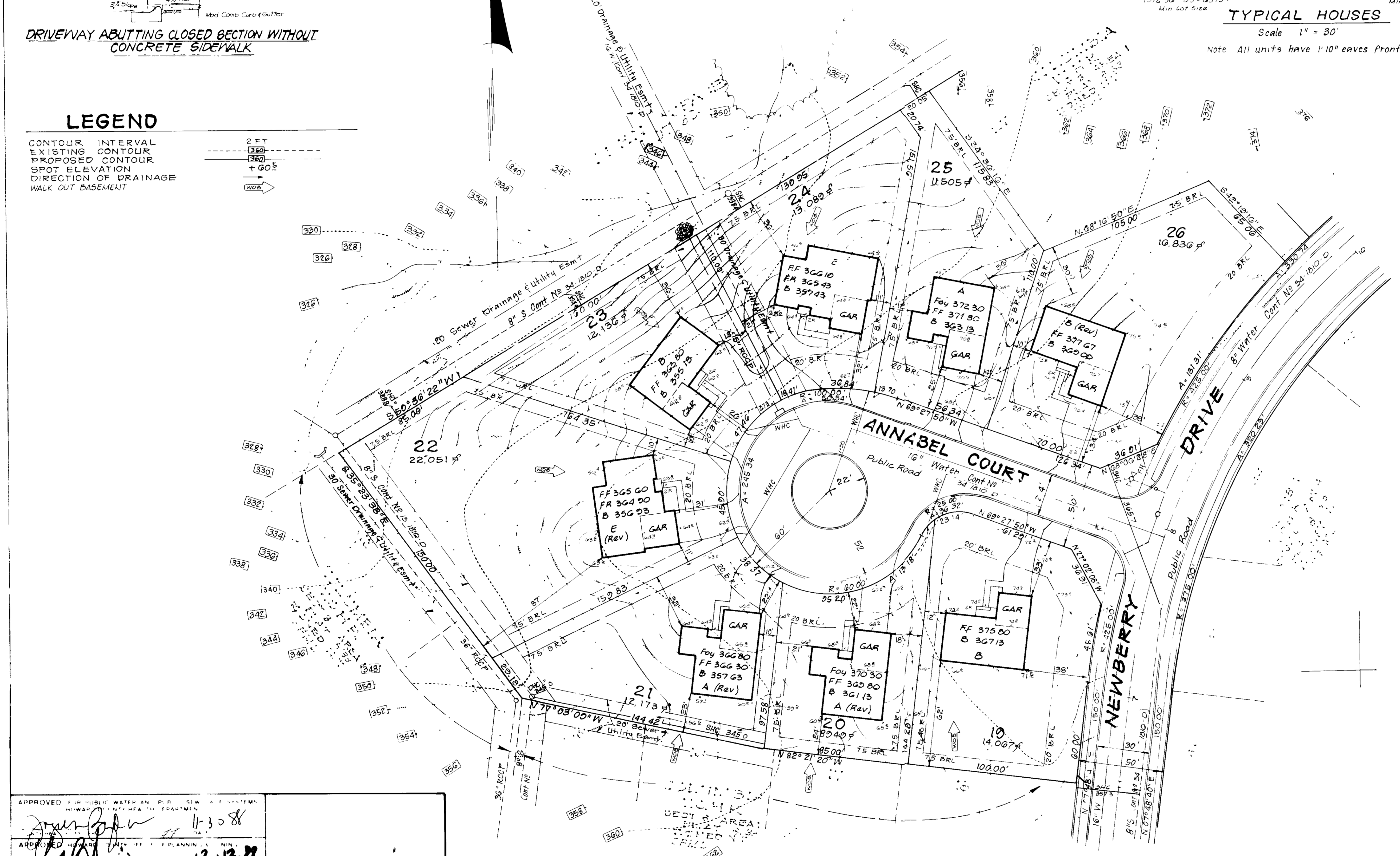
Scale 1" = 30'
Note: All units have 1'10" eaves front & rear



VICINITY MAP
Scale 1" = 2000'

LEGEND

CONTOUR INTERVAL	2 FT
EXISTING CONTOUR	--- 360 ---
PROPOSED CONTOUR	--- 360 ---
SPOT ELEVATION	+ 60.5
DIRECTION OF DRAINAGE	→
WALK OUT BASEMENT	--->



GENERAL NOTES

- 1 Subject property is zoned RT-3FMD
- 2 Coordinates are based upon the Maryland State Grid System
- 3 All roads are public and existing
- 4 Any damage to county owned rights-of-ways to be corrected at the Developers Expense
- 5 Total area included 2.54 Ac
- 6 Total number of lots 8
- 7 Reference Final Development Plan Phase 108
- 8 Maximum Building Coverage 30%
- 9 The Contractor or developer shall contact the Construction Inspection Survey Division 24 hours in advance of commencement of work at 702-2630
- 10 The existing topography was taken from Sediment & Erosion Control Plans F-88 109, Prepared by Century Engineering, Inc. Reference File Nos. S 87 73, VP 88 23, P 88 31 and F 88 109

ADDRESS CHART

LOT	STREET ADDRESS
19	6901 Annabel Court
20	6905 " "
21	6909 " "
22	6913 " "
23	6917 " "
24	6921 " "
25	6925 " "
26	6900 Annabel Court

SPECIAL NOTES

- 1 Approved road construction plans shall be used for all public utilities
- 2 Public water and sewer shown for reference only for more detailed information see Contract no 34-810-3
- 3 The water and sewer house connections not included in a Developers Agreement shall conform to Howard Co. Plumbing Code The on site WHC shall be 1/2" copper, the SHC shall be 4" iron
- 4 A waiver from stormwater management for this site was granted January 14, 1988, Prepared by Century Engineering

SUBDIVISION NAME - COLUMBIA VILLAGE OF HICKORY RIDGE		SECT/AREA	10-26
Plot No 8133	Block # 5	Zone RT-3FMD	Lot Area 10,000
Water Code E 22		Sewer Code	6480000

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS BY THE BOARD OF PUBLIC UTILITIES

APPROVED FOR PLANNING AND LAND DEVELOPMENT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS AND PUBLIC STREETS BY THE BOARD OF PUBLIC UTILITIES

DATE: 11-3-88



CLARK • FINEROCK & SACKETT, INC.

7135 MINSTREL WAY • COLUMBIA MD 21045 • (301) 381-7500

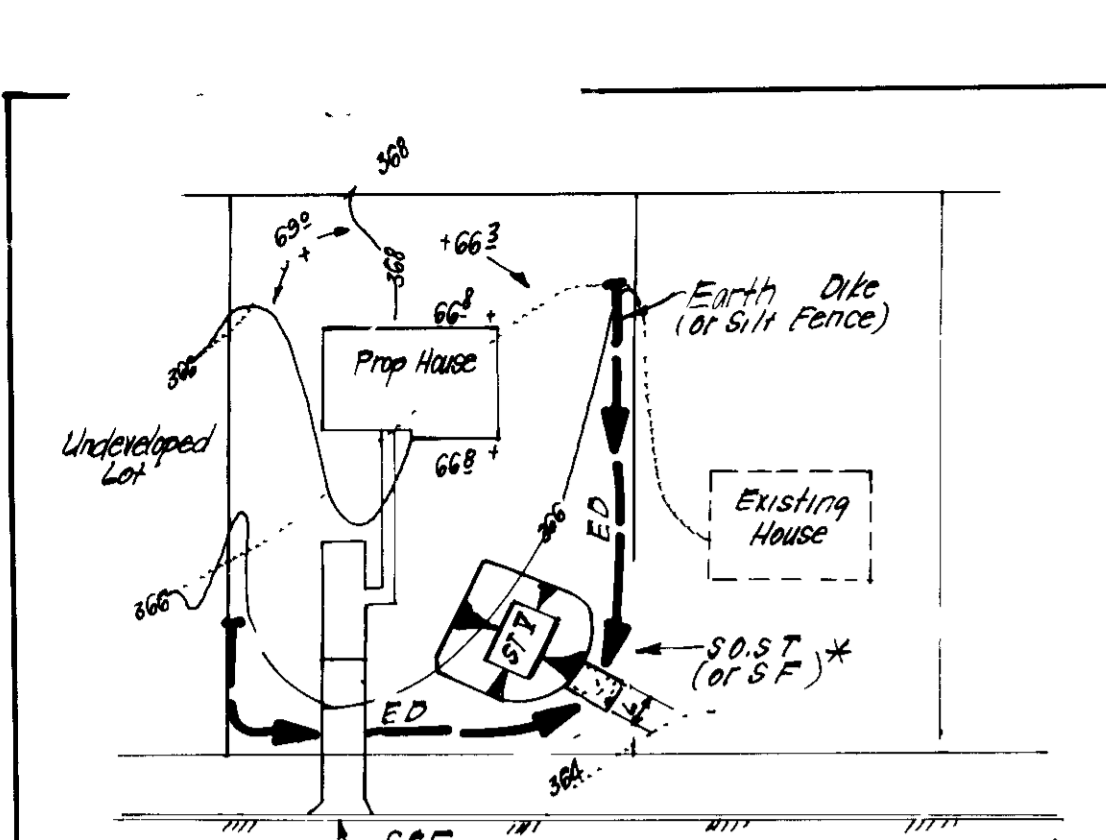
SITE DEVELOPMENT PLAN
LOTS 19 thru 26
COLUMBIA VILLAGE OF HICKORY RIDGE

SECTION 6 AREA 1
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR GOODIER BUILDERS, INC.
11207 MCGEE WAY
ELLCOTT CITY, MARYLAND 21043

SCALE: 1" = 30'
DRAWING: 1 of 2
JOB NO: 88-025X
DATE: October 1988

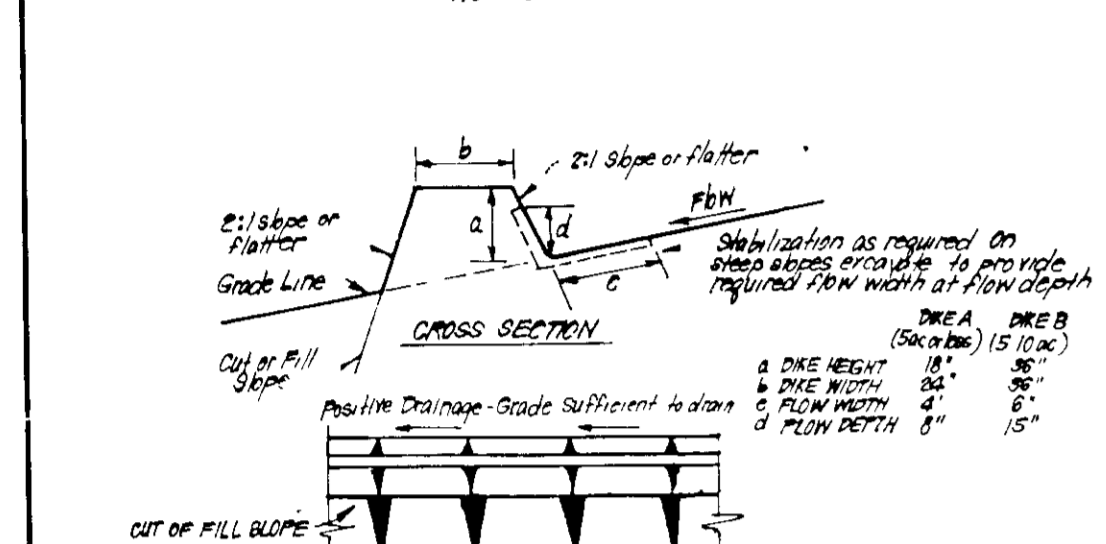
SDP-89-68



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 (S.V.)	PAVING	PAVING	PAVING
1.00	1.00	1.00	1.00
2.00	2.00	2.00	2.00
3.00	3.00	3.00	3.00
4.00	4.00	4.00	4.00
5.00	5.00	5.00	5.00
6.00	6.00	6.00	6.00
7.00	7.00	7.00	7.00
8.00	8.00	8.00	8.00
9.00	9.00	9.00	9.00
10.00	10.00	10.00	10.00

SINGLE LOT SEDIMENT CONTROL PLAN
NO SCALE



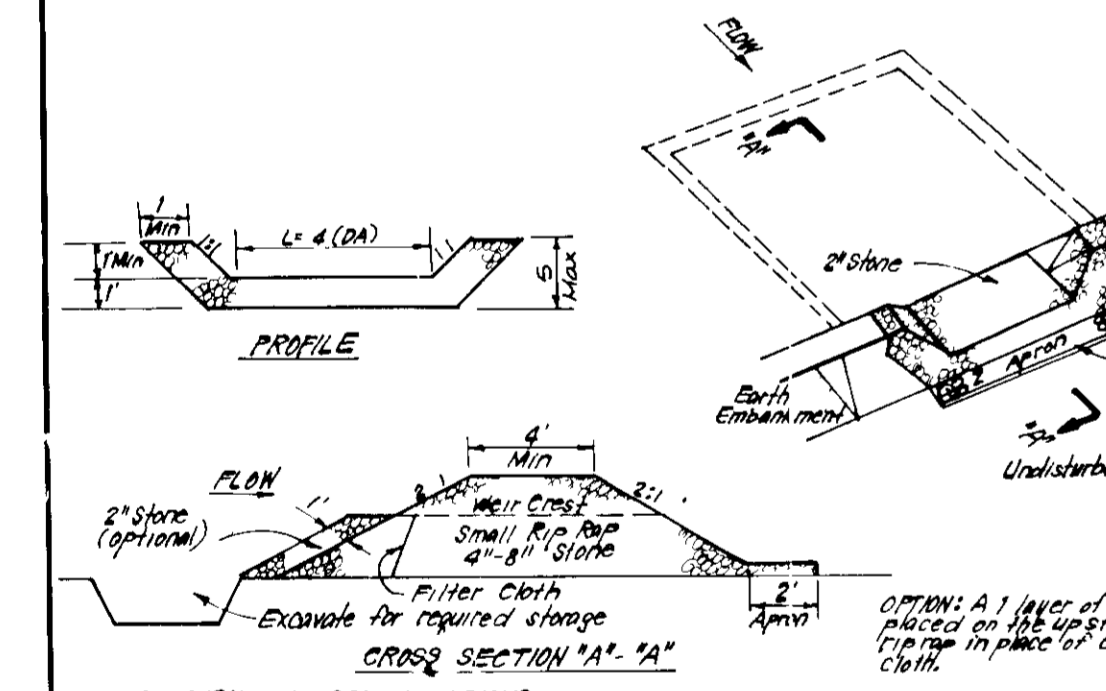
CONSTRUCTION SPECIFICATIONS:

1. All dikes shall be constructed 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 operation by construction vehicle.
4. Field location should be adjusted as needed to utilize a stabilized silt outlet.
5. Eighth dikes shall have an outlet that discharges 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 channels as per chart below.

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	SEEDING	DIKE A	DIKE B
1	1.00	1.00	1.00
2	2.00	2.00	2.00
3	3.00	3.00	3.00
4	4.00	4.00	4.00
5	5.00	5.00	5.00
6	6.00	6.00	6.00
7	7.00	7.00	7.00
8	8.00	8.00	8.00
9	9.00	9.00	9.00
10	10.00	10.00	10.00

EARTH DIKE DETAIL (E.D.)
NO SCALE



CONSTRUCTION SPECIFICATIONS:

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The soil surface shall be compacted.
2. The fill material for the embankment shall be free of rocks and other woody vegetation as well as other sized stones, rocks, organic material or other plant/animal 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" x 8" along with 1" thickness of 2" aggregate placed on the up-slope side on the small rip rap or embedded filter cloth in the rip rap.
5. Soil must be removed and trap restored to its original dimensions when the sediment has accumulated to 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.

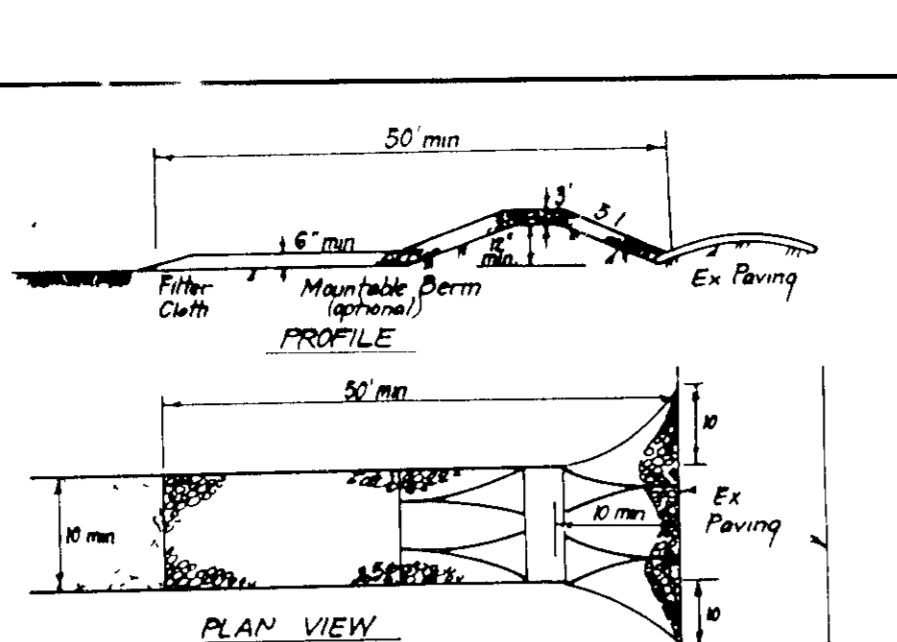
STONE OUTLET SEDIMENT TRAP (S.O.S.T.) STV.
NO SCALE

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

APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING & ZONING

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

11-22-88



CONSTRUCTION SPECIFICATIONS:

1. Stone size - Use 2" stone or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 15" length (except on a single residence lot where a 30" 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 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 mound able berm with 5% slope 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 needed. Periodic cleaning and/or cleaning of any measures used to trap sediment. All sediment applied, 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 in an area stabilized with stone and wheel tracks into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE (SCE)
NO SCALE

TRAP #2 S.O.S.T. ST V *

DA = 13 Ac
Storage Req = 13 x 1800 = 23400 cf
Storage Prov = 23600 cf
Depth = 5'
Top of Stone Crest = 348.0
Bottom Elev = 337.0
Cleanout Elev = 339.0
Bottom Dim = 55' x 6'
* 1:1 side slopes in cut

TRAP #1 S.O.S.T. ST V *

DA = 09 Ac
Storage Req = 09 x 1800 = 16200 cf
Storage Prov = 16200 cf
Depth = 5'
Top of Stone Crest = 350.0
Bottom Elev = 345.0
Cleanout Elev = 347.0
Bottom Dim = 11' x 23'
* 1:1 Side Slopes in Cut

CONSTRUCTION SEQUENCE

- 1 Obtain a grading permit
- 2 Install Sediment & Erosion Control measures
- 3 Clear & rough grade site
- 4 Construct houses, driveways & walks
- 5 Fine grade and stabilize all disturbed areas onsite in accordance with standards & specifications
- 6 Upon approval of the Sediment Control Inspector, remove sediment & erosion control measures and stabilize

* Note: Houses on lots 22 & 23 not to be constructed until permission to remove ex trap # 4 has been obtained.

Reviewed for HOWARD COUNTY and meets Technical Requirements

Signature: [Signature]
Date: 11/16/88
U.S. Soil Conservation Service

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

APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING & ZONING

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

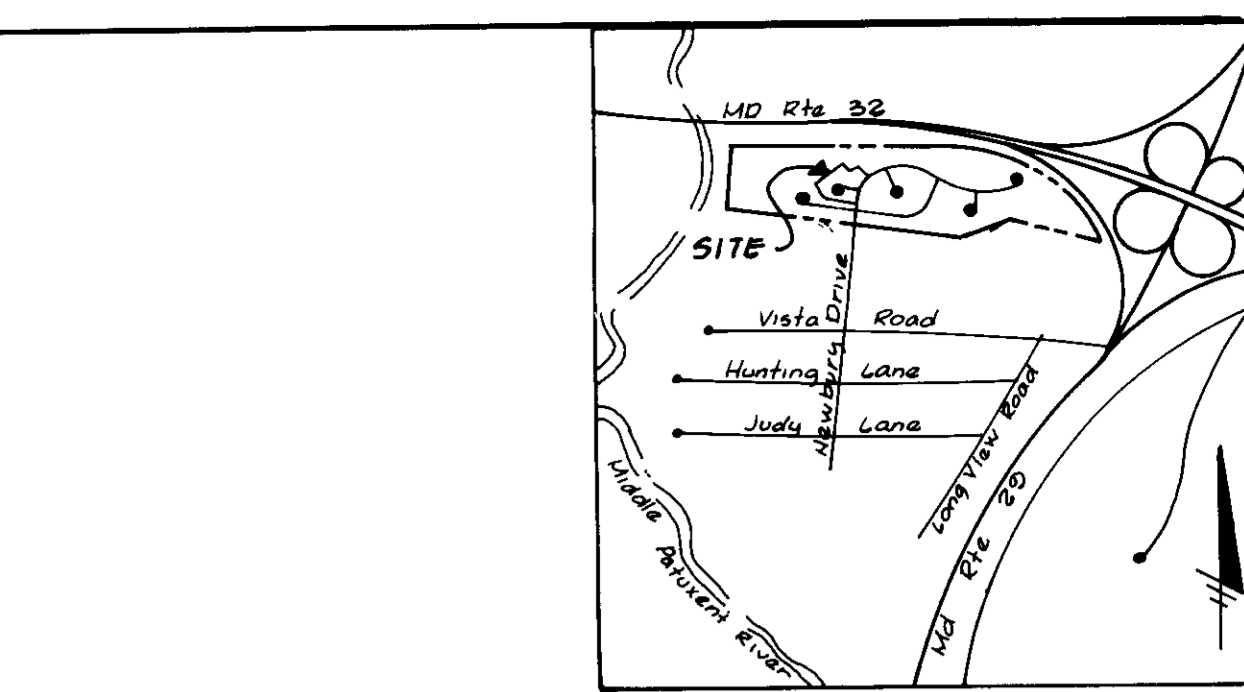
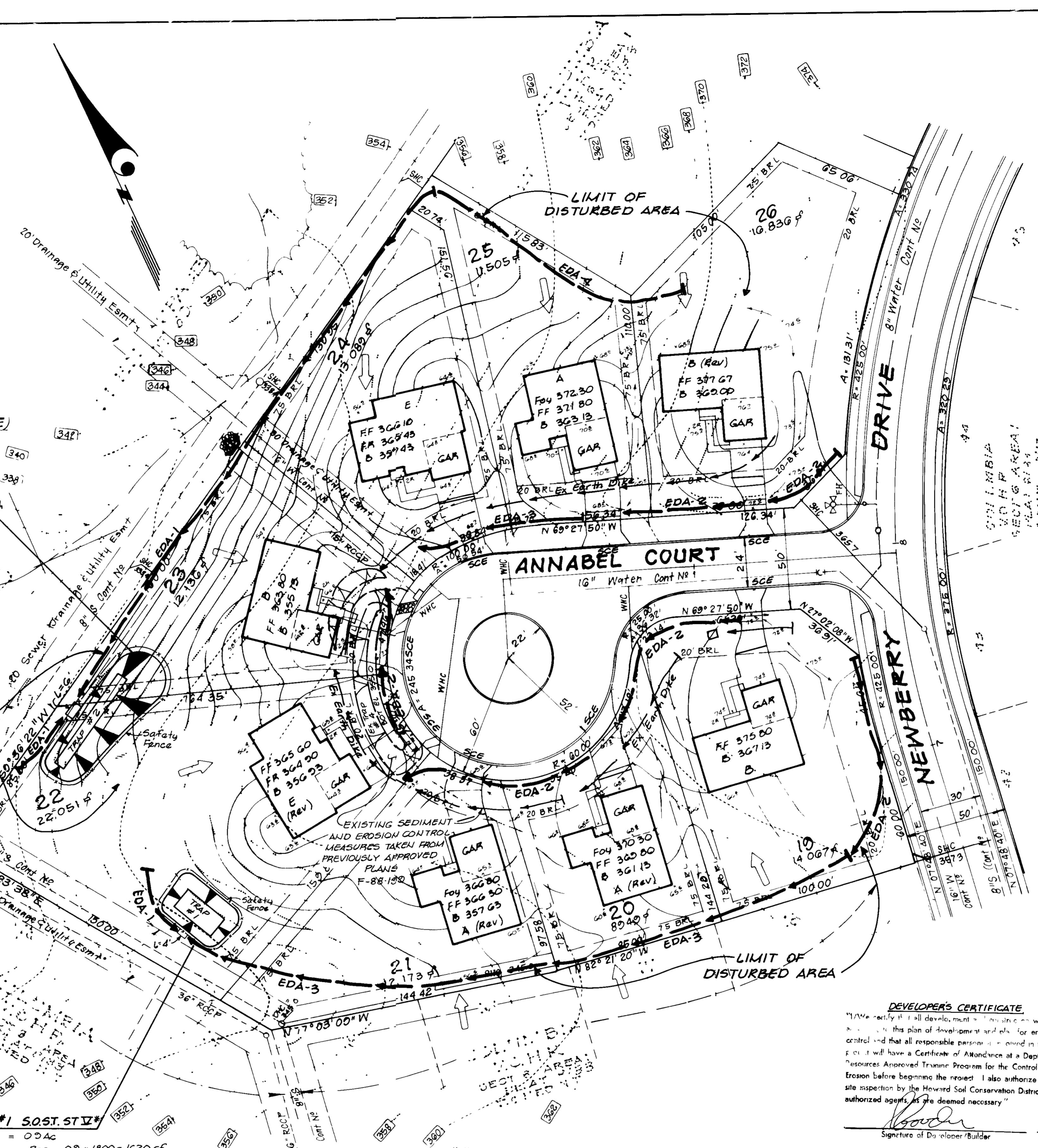
11-22-88

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

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STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

11-22-88



VICINITY MAP
Scale 1" = 200'

LEGEND

Contour Interval 2 FT
Existing Contour 410
Proposed Contour 410
Spot Elevation +10.0
Direction of Drainage
Walk out Basement
Trees to be Saved

Existing Trees
Earth Dike
Existing Earth Dike
Stabilized Construction Entrance

PERMANENT SEEDING NOTES

Soil Preparation - Loosen upper three inches of soil by raking, discing or other acceptable means before seeding. Do not previously seeded.

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. Follow 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. Follow 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 (0.5 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 seed - Option (3) Seed with 60 lbs acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching - Apply 15 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 well anchored pegs, or 218 gallons 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.

Inspection - 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.

Soil Preparation - Loosen upper three inches of soil by raking, discing or other acceptable means before seeding. Do not previously seeded.

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 25 lbs per acre of annual ryegrass (2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 2 lbs per acre of weeping lovegrass (0.7 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 seed.

Mulching - Apply 15 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 well anchored pegs, 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.

DEVELOPER'S CERTIFICATE

I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan and on my personal knowledge, I believe that the plan and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Signature: [Signature]
Date: 10-13-88
G Nelson Clark

OWNER/Developer	Howard Research & Development Land Company	Subdivision Name	Village of Hickory Ridge
Plot No	8133	Block No	5
Water Code	E-22	Sewer Code	6480000

DESIGNED	JLS	SCALE	1" = 30'
DRAWN	PER	DRAWING	2 OF 2
CHECKED	JLS	JOB NO	88-005
DATE	10-11-88	FILE NO	88-0055E

CLARK • FINEROCK & SACKETT, INC
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 • BALTO • (301) 611-8100 • WASH

SEDIMENT & EROSION CONTROL PLAN
LOTS 19 THRU 26
SECTION G, AREA 1
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

GOODIER BUILDERS
11207 KRIGEE WAY
ELLICOTT CITY, MD 21043

SDP-89-68