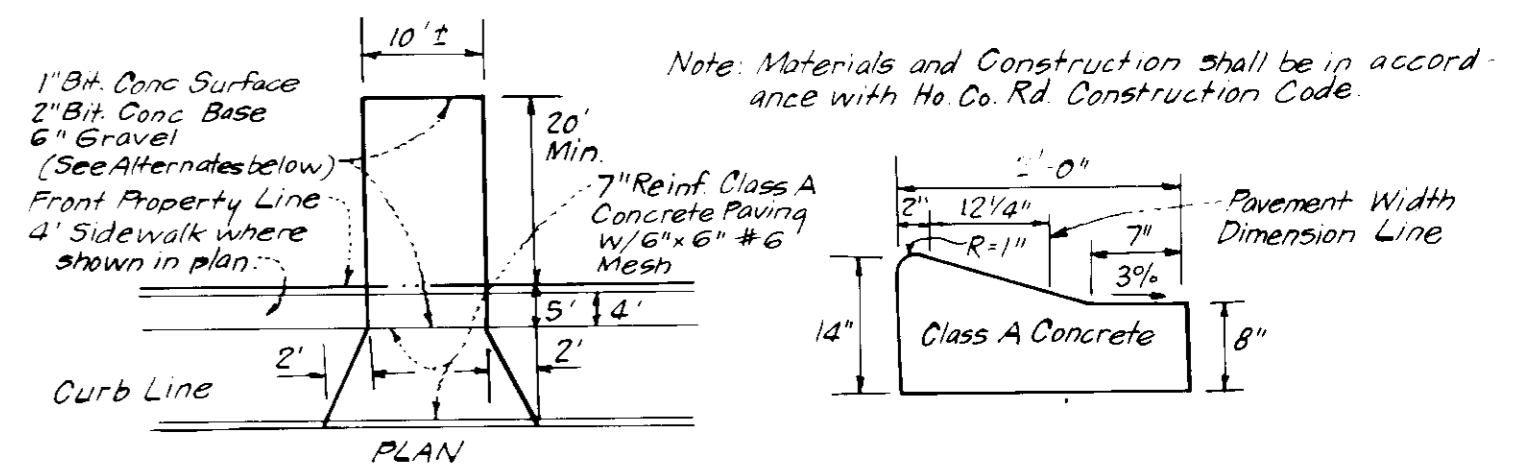
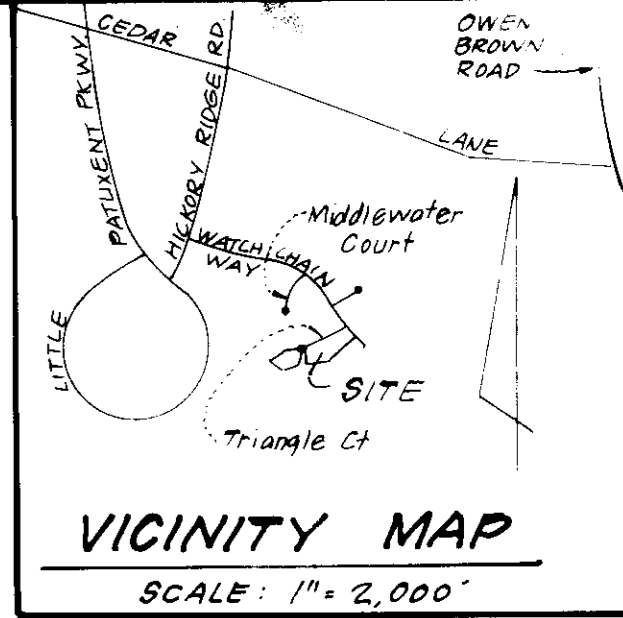




**GENERAL NOTES**

1. The land included is zoned NTSFMD (as per 8/2/85 zoning plan).
2. Coordinates shown hereon are based upon Howard County Control Points 2639002 & 2639003.
3. All roads are public and existing.
4. Any damage to county owned rights-of-way shall be corrected at the developer's expense.
5. The total area included: 2.4173 Acres
6. The total number of lots included: 8.
7. Storm water management for this site has been provided in F 83-120.
8. Reference final development plan, Phase 181, Part IV, for zoning criteria.

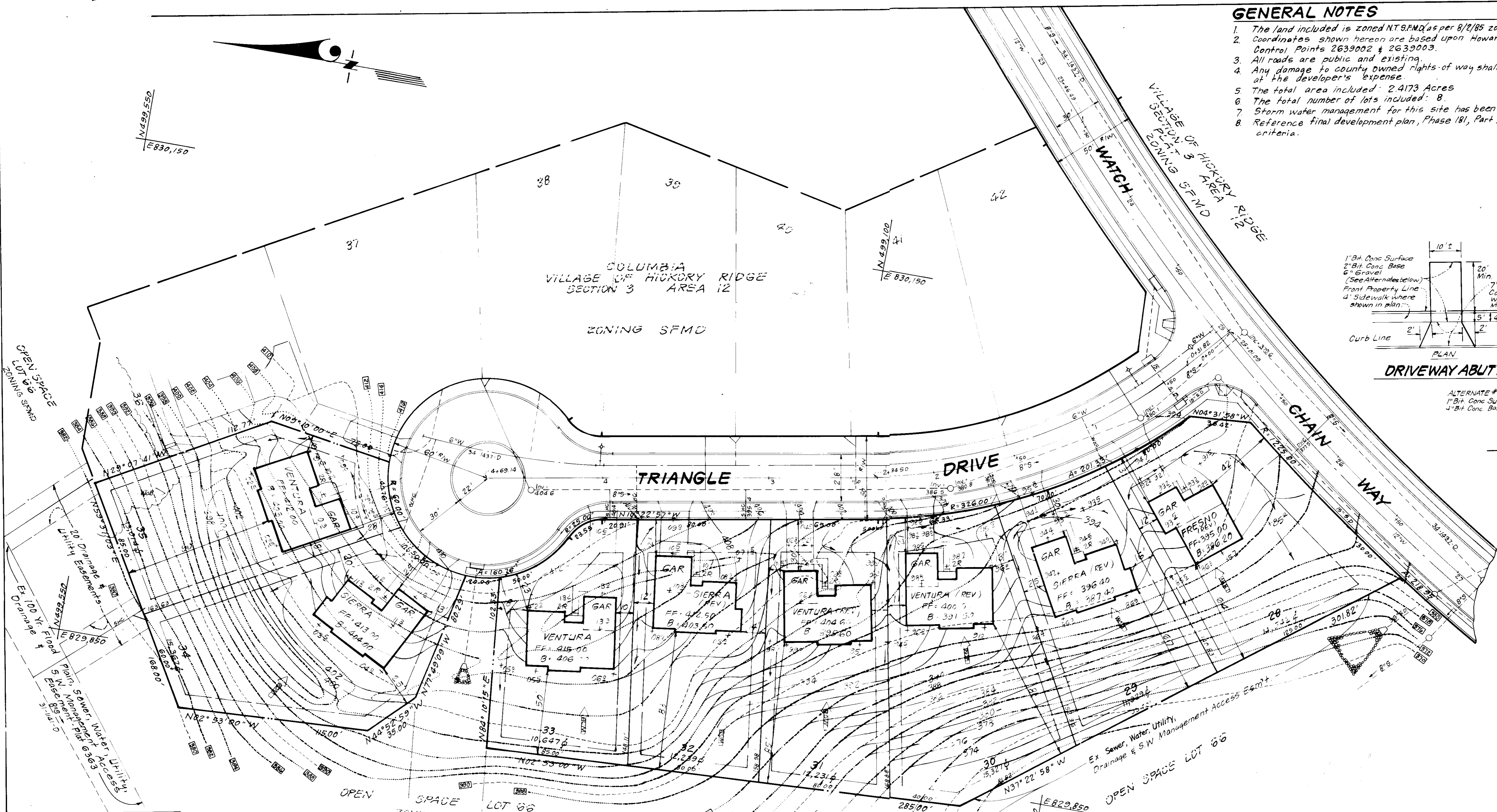


**DRIVEWAY ABUTTING MOD. COMB. CURB & GUTTER\***

- ALTERNATE #1: NO SCALE  
1" Bit Conc Surface  
1" Bit Conc Base  
4" Bit Conc Base
- ALTERNATE #2: NO SCALE  
1 1/2" Bit Conc Surface  
3" Bit Conc Base  
3" Gravel
- \* See Ho. Co. Std. R-3.01 for Std. 7" Comb. Curb & Gutter

**LEGEND:**

1. Contour Interval: 2'±
2. Existing Contour: ---
3. Proposed Contour: - - - -
4. Spot Elevation: +30.5
5. Direction of Drainage: →
6. Walk-Out Basement: [Symbol]



**BUILDING RESTRICTION LINES**

- Front: 20'
- Sides: 7.5'
- Rear: 7.5'

**ADDRESS CHART**

LOT	STREET ADDRESS
28	2103 Triangle Drive
29	2107 " " "
30	2111 " " "
31	2115 " " "
32	2119 " " "
33	2123 " " "
34	2131 " " "
35	2135 " " "

SUBDIVISION NAME Columbia, Village of Hickory Ridge	SECT./AREA 3/12	LOTS 28-35
PLAT # 2846	BLOCK # 11	ZONE SFMD
TAX/ZONE MAP 5TH	ELEC. DIST. 5TH	CONV. PER. 2053.01
WATER CODE E-27	SEWER CODE 6591000	

7-25-86  
[Signature]

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

COUNTY HEALTH OFFICER: \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

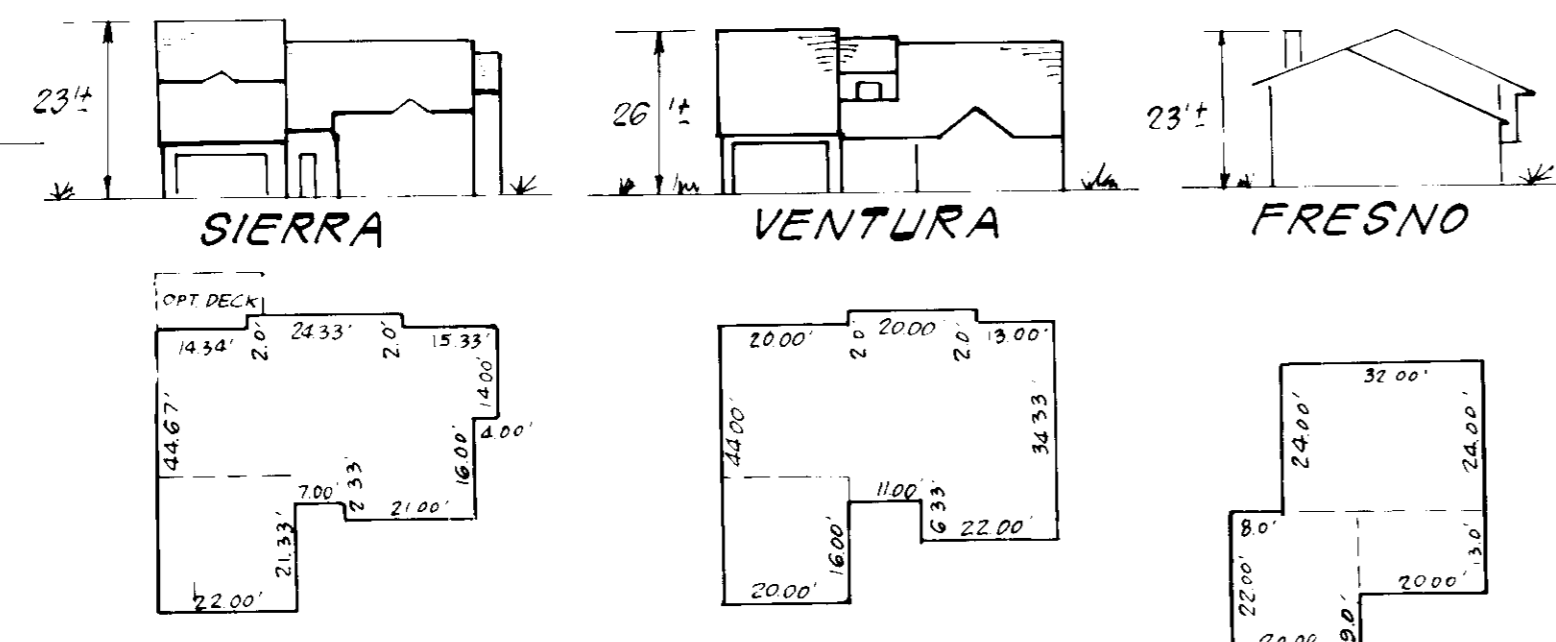
PLANNING DIRECTOR: [Signature] DATE: 8-25-86

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

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

DIRECTOR: [Signature] DATE: 8-25-86

CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 8-25-86



**TYPICAL HOUSES**

NO SCALE



**CLARK · FINEFROCK & SACKETT**  
ENGINEERS · PLANNERS · SURVEYORS

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

DESIGNED: C.J.S.  
DRAWN: V.L.M.  
CHECKED: J.M.E.  
DATE: 6-18-86

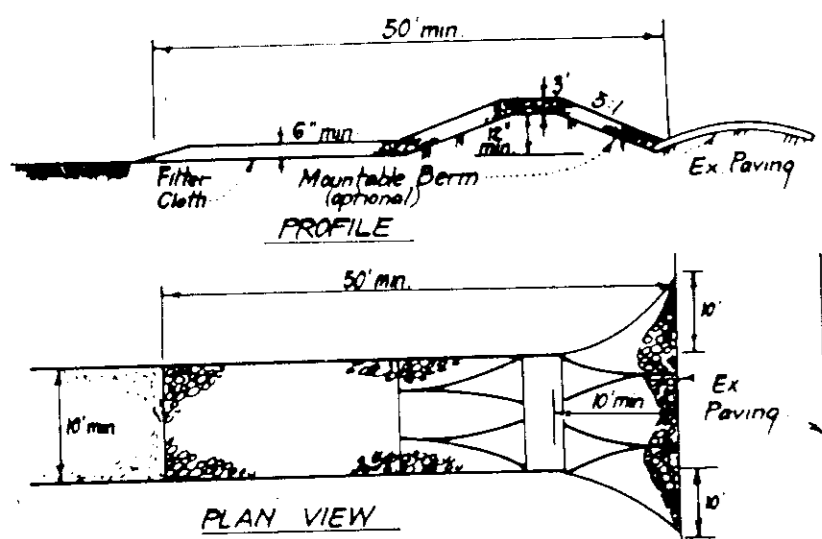
**SITE DEVELOPMENT PLAN**  
LOTS 28 THRU 35  
**COLUMBIA**  
VILLAGE OF HICKORY RIDGE  
SECTION 3 AREA 12  
5TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

FOR: ALLAN HOMES, INC.  
P.O. Box 1058  
Columbia, Maryland 21024

SCALE: 1" = 30'  
DRAWING: 1 OF 2  
JOB NO.: 86-060  
FILE NO.: 86-060

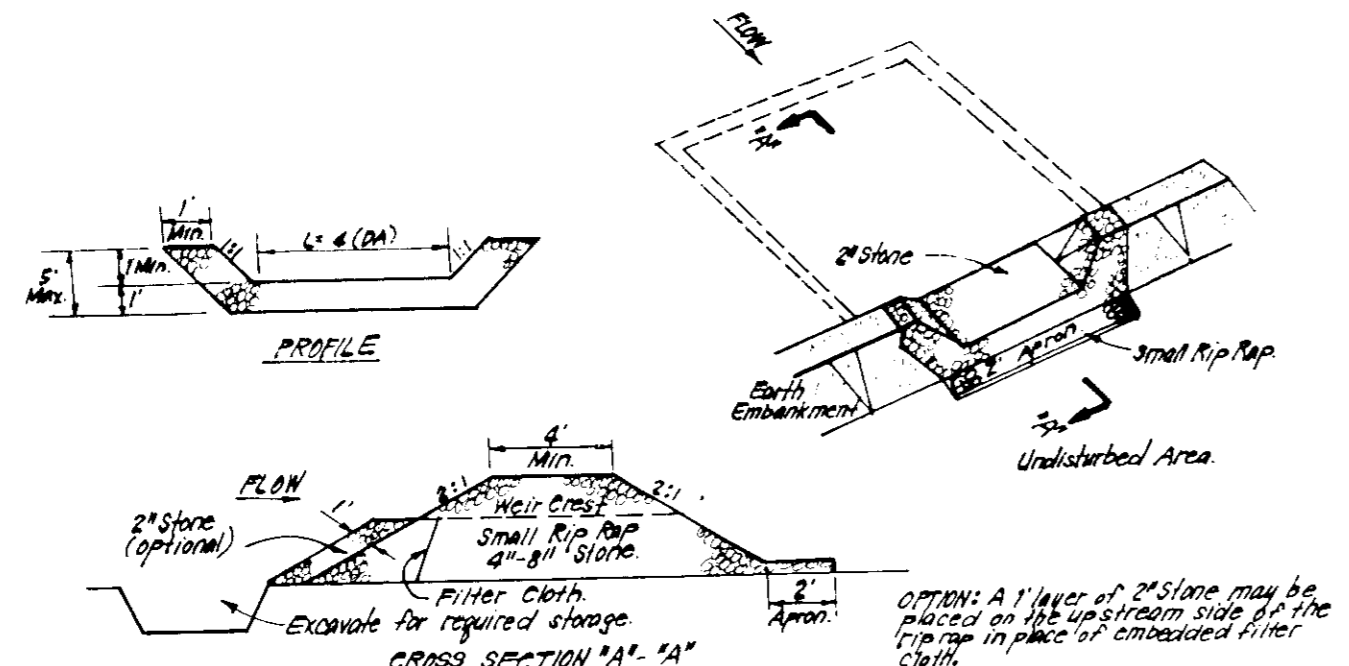
SDP-86-283c





- 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 simple 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 stone 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 simple family residence lot.
  6. Surface Water - All surface water flowing or diverted toward construction entrance shall be piped across the entrance. If piping is impractical, a mound berm with 3:1 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.
  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



- 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 any sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by tamping with equipment while it is being constructed.
  3. All cut and fill slopes shall be 1:1 or flatter.
  4. The stone used in the outlet shall be small rip rap of 4" to 6" in size.
  5. The stone used in the outlet shall be small rip rap of 4" to 6" in size.
  6. The structure shall be constructed to trap sediment accumulated to 1/2 the design depth of the trap.
  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 (SOST) STV.**  
NO SCALE

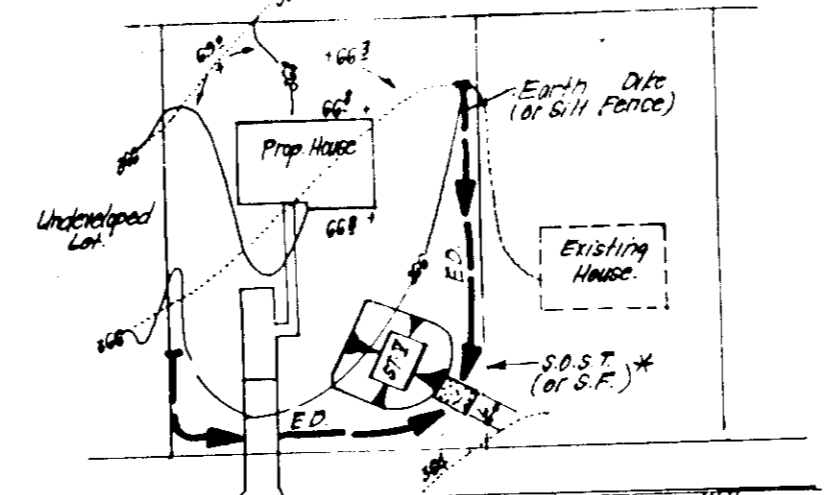
- CONSTRUCTION SPECIFICATIONS**
1. All dikes shall be constructed by earth-moving equipment.
  2. All dikes shall have positive drainage to an outlet.
  3. The width may be wider and side slopes may be flatter if desired, to facilitate passing by construction traffic.
  4. Field location should be adjusted as needed to utilize a stabilized safe outlet.
  5. Earth dikes shall have an outlet that functions with a minimum of erosion. Repair shall be completed to a permanent 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 or Straw Mulch	Seed or Straw Mulch
2	3.1 - 5.0%	Seed or Straw Mulch	Seed or Straw Mulch
3	5.1 - 8.0%	Seed or Straw Mulch	Seed or Straw Mulch
4	8.1 - 20.0%	Seed or Straw Mulch	Seed or Straw Mulch

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" to 6" in a layer at least 3" thick, pressed into soil.  
C Approved equivalent 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



**SINGLE LOT SEDIMENT CONTROL PLAN**  
NO SCALE

NO.	AREA	AREA	AREA	AREA	AREA	AREA	AREA
1	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
10	1.0	1.0	1.0	1.0	1.0	1.0	1.0
11	1.0	1.0	1.0	1.0	1.0	1.0	1.0
12	1.0	1.0	1.0	1.0	1.0	1.0	1.0
13	1.0	1.0	1.0	1.0	1.0	1.0	1.0
14	1.0	1.0	1.0	1.0	1.0	1.0	1.0
15	1.0	1.0	1.0	1.0	1.0	1.0	1.0
16	1.0	1.0	1.0	1.0	1.0	1.0	1.0
17	1.0	1.0	1.0	1.0	1.0	1.0	1.0
18	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19	1.0	1.0	1.0	1.0	1.0	1.0	1.0
20	1.0	1.0	1.0	1.0	1.0	1.0	1.0
21	1.0	1.0	1.0	1.0	1.0	1.0	1.0
22	1.0	1.0	1.0	1.0	1.0	1.0	1.0
23	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24	1.0	1.0	1.0	1.0	1.0	1.0	1.0
25	1.0	1.0	1.0	1.0	1.0	1.0	1.0
26	1.0	1.0	1.0	1.0	1.0	1.0	1.0
27	1.0	1.0	1.0	1.0	1.0	1.0	1.0
28	1.0	1.0	1.0	1.0	1.0	1.0	1.0
29	1.0	1.0	1.0	1.0	1.0	1.0	1.0
30	1.0	1.0	1.0	1.0	1.0	1.0	1.0
31	1.0	1.0	1.0	1.0	1.0	1.0	1.0
32	1.0	1.0	1.0	1.0	1.0	1.0	1.0
33	1.0	1.0	1.0	1.0	1.0	1.0	1.0
34	1.0	1.0	1.0	1.0	1.0	1.0	1.0
35	1.0	1.0	1.0	1.0	1.0	1.0	1.0
36	1.0	1.0	1.0	1.0	1.0	1.0	1.0
37	1.0	1.0	1.0	1.0	1.0	1.0	1.0
38	1.0	1.0	1.0	1.0	1.0	1.0	1.0
39	1.0	1.0	1.0	1.0	1.0	1.0	1.0
40	1.0	1.0	1.0	1.0	1.0	1.0	1.0
41	1.0	1.0	1.0	1.0	1.0	1.0	1.0
42	1.0	1.0	1.0	1.0	1.0	1.0	1.0
43	1.0	1.0	1.0	1.0	1.0	1.0	1.0
44	1.0	1.0	1.0	1.0	1.0	1.0	1.0
45	1.0	1.0	1.0	1.0	1.0	1.0	1.0
46	1.0	1.0	1.0	1.0	1.0	1.0	1.0
47	1.0	1.0	1.0	1.0	1.0	1.0	1.0
48	1.0	1.0	1.0	1.0	1.0	1.0	1.0
49	1.0	1.0	1.0	1.0	1.0	1.0	1.0
50	1.0	1.0	1.0	1.0	1.0	1.0	1.0
51	1.0	1.0	1.0	1.0	1.0	1.0	1.0
52	1.0	1.0	1.0	1.0	1.0	1.0	1.0
53	1.0	1.0	1.0	1.0	1.0	1.0	1.0
54	1.0	1.0	1.0	1.0	1.0	1.0	1.0
55	1.0	1.0	1.0	1.0	1.0	1.0	1.0
56	1.0	1.0	1.0	1.0	1.0	1.0	1.0
57	1.0	1.0	1.0	1.0	1.0	1.0	1.0
58	1.0	1.0	1.0	1.0	1.0	1.0	1.0
59	1.0	1.0	1.0	1.0	1.0	1.0	1.0
60	1.0	1.0	1.0	1.0	1.0	1.0	1.0
61	1.0	1.0	1.0	1.0	1.0	1.0	1.0
62	1.0	1.0	1.0	1.0	1.0	1.0	1.0
63	1.0	1.0	1.0	1.0	1.0	1.0	1.0
64	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65	1.0	1.0	1.0	1.0	1.0	1.0	1.0
66	1.0	1.0	1.0	1.0	1.0	1.0	1.0
67	1.0	1.0	1.0	1.0	1.0	1.0	1.0
68	1.0	1.0	1.0	1.0	1.0	1.0	1.0
69	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70	1.0	1.0	1.0	1.0	1.0	1.0	1.0
71	1.0	1.0	1.0	1.0	1.0	1.0	1.0
72	1.0	1.0	1.0	1.0	1.0	1.0	1.0
73	1.0	1.0	1.0	1.0	1.0	1.0	1.0
74	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75	1.0	1.0	1.0	1.0	1.0	1.0	1.0
76	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77	1.0	1.0	1.0	1.0	1.0	1.0	1.0
78	1.0	1.0	1.0	1.0	1.0	1.0	1.0
79	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80	1.0	1.0	1.0	1.0	1.0	1.0	1.0
81	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82	1.0	1.0	1.0	1.0	1.0	1.0	1.0
83	1.0	1.0	1.0	1.0	1.0	1.0	1.0
84	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85	1.0	1.0	1.0	1.0	1.0	1.0	1.0
86	1.0	1.0	1.0	1.0	1.0	1.0	1.0
87	1.0	1.0	1.0	1.0	1.0	1.0	1.0
88	1.0	1.0	1.0	1.0	1.0	1.0	1.0
89	1.0	1.0	1.0	1.0	1.0	1.0	1.0
90	1.0	1.0	1.0	1.0	1.0	1.0	1.0
91	1.0	1.0	1.0	1.0	1.0	1.0	1.0
92	1.0	1.0	1.0	1.0	1.0	1.0	1.0
93	1.0	1.0	1.0	1.0	1.0	1.0	1.0
94	1.0	1.0	1.0	1.0	1.0	1.0	1.0
95	1.0	1.0	1.0	1.0	1.0	1.0	1.0
96	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97	1.0	1.0	1.0	1.0	1.0	1.0	1.0
98	1.0	1.0	1.0	1.0	1.0	1.0	1.0
99	1.0	1.0	1.0	1.0	1.0	1.0	1.0
100	1.0	1.0	1.0	1.0	1.0	1.0	1.0

- 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 urea-form 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 (14 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 unrotted 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.
- Maintenance:** Inspect all seeded areas and make needed repairs, replacements and reseedings.

- TEMPORARY SEEDING NOTES**
- Apply to graded or cleared areas likely to be redistributed 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 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 28 bushel per acre of annual ryegrass (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 unrotted 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.

- SEDI-MENT CONTROL NOTES**
- 1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permitting prior to the start of any construction. (1983-213)
  - 2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
  - 3) Following initial soil disturbance or redistribution, 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) and (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	2.417 Acres
Area to be seeded or paved	2.422 Acres
Area to be vegetatively stabilized	2.422 Acres
Total Cut	0.000 cu. yds
Total Fill	0.000 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 DPM 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 an "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).
  - 13) The total amount of straw bale dikes/silt fence equals 485 L.F.

**LEGEND**

1. Contour Interval	2' H
2. Existing Contour	--- 570 ---
3. Proposed Contour	--- 570 ---
4. Spot Elevation	+70E
5. Direction of Drainage	→
6. Straw Bale Dike or Silt Fence	--- SBD/S ---
7. Earth Dike	--- E.D. ---
8. Stabilized Construction Entrance	--- SCE ---

- CONSTRUCTION SEQUENCE:**
- | No. | Description   | No. of Days |
|-----|---|-------------|
| 1   | Obtain grading permit & install sediment & erosion control devices and stabilize.             | 5           |
| 2   | Excavate for foundations & rough grade & temporarily stabilize.                               | 30          |
| 3   | Construct structures, sidewalks & drive ways.   | 250         |
| 4   | Final grade in accordance w/Specs & Specs.  | 15          |
| 5   | Upon approval of sediment control inspection, remove sediment & erosion controls & stabilize. | 3           |

