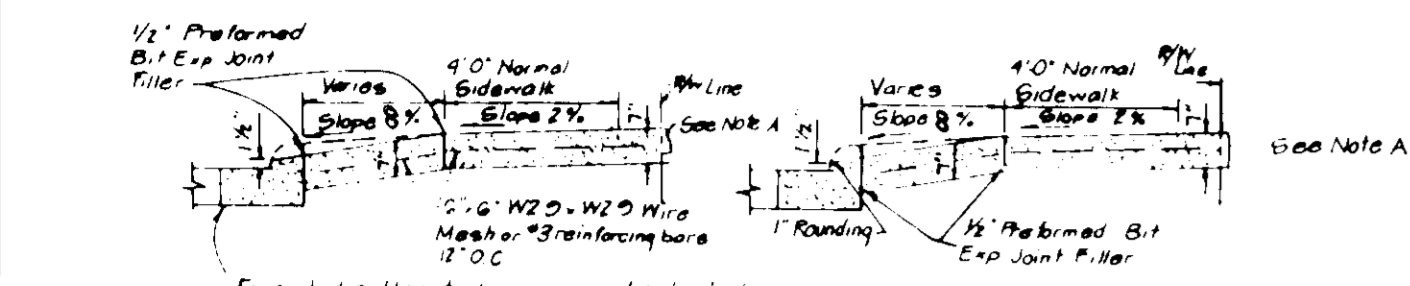
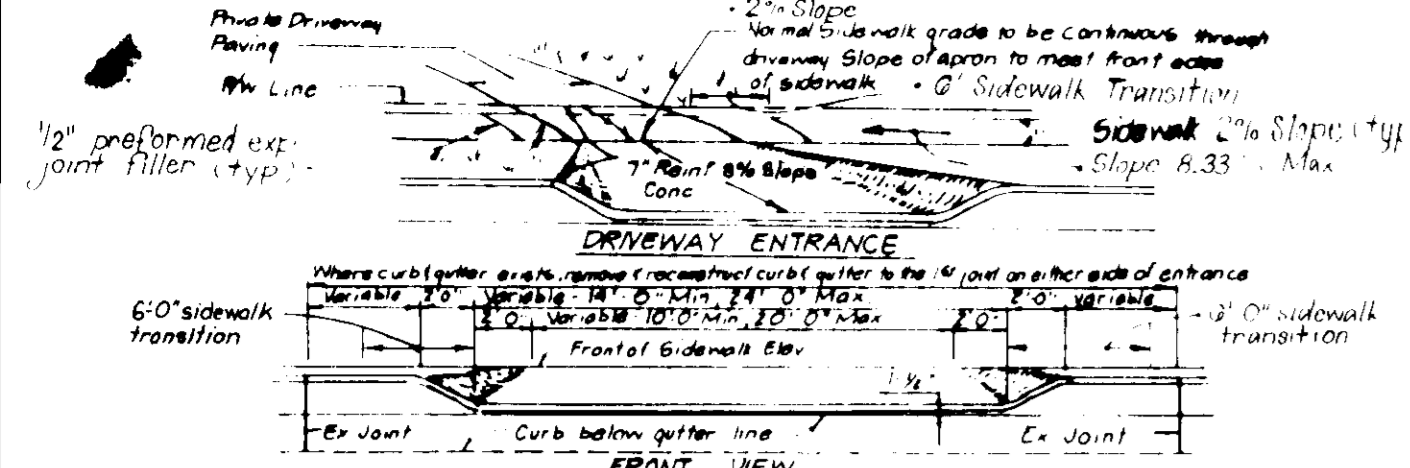


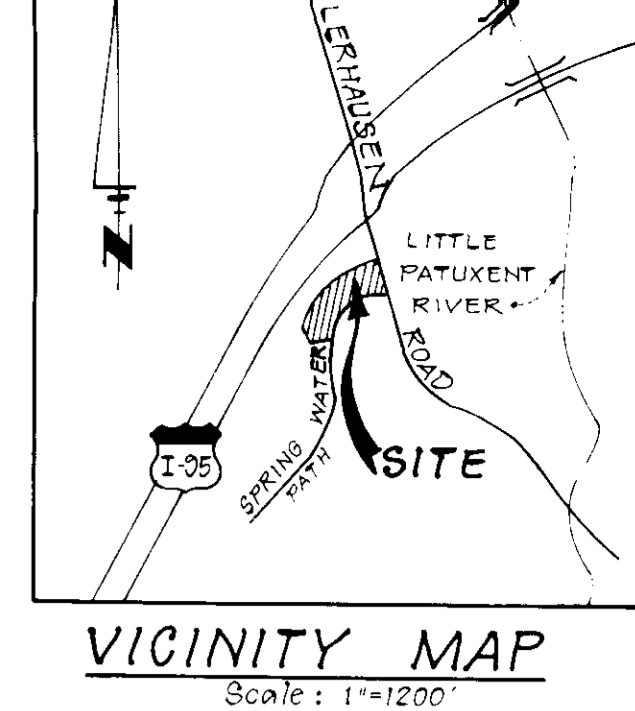
### SPECIAL NOTES

- Approved Road Construction plans shall be used for all public utilities.
- Public Water & Sewer shown for reference only. For more detailed information - See Water & Sewer Plans Contract No 24-1542-D.
- The water & sewer house connections not included in a "Developer's Agreement" shall conform to Howard County Plumbing Code. The on-site WHC shall be copper and the SHC shall be 4" iron.



DRIVEWAY ABUTTING CLOSED SECTION WITH STD 7" COMB. CURB & GUTTER (SIDEWALK SET BACK FROM CURB)

NO.	REVISION	DATE
1	REVISED TO SHOW 1/2" JOINT FILLER	8-21-87
2	REVISED TO SHOW 1/2" JOINT FILLER	8-21-87

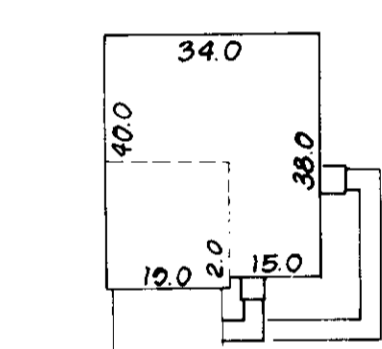
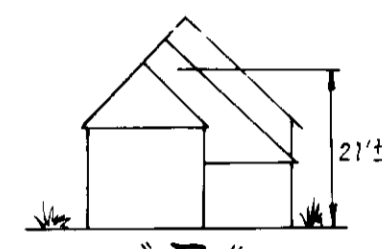


### GENERAL NOTES

- The land included is zoned R-20.
- Coordinates are based upon the Maryland State Grid System and derived from the following Howard County Control Stations 2041003 & 2142006.
- All roads are Public and Existing.
- Any damage to county owned rights-of-way to be corrected at Developers expense.
- Total area included = 2.532 Ac.
- Total number of lots = 7.
- The contractor or developer shall contact the Construction Inspection/Survey Division 24 hours in advance of commencement of work at 702-2030.
- Maximum building coverage is 30% per lot.

### TYPICAL HOUSE

SCALE: 1"=30'  
(NOTE ALL UNITS HAVE 10' EAVES FRONT & REAR)



1328 / 03 = 4090 \$ MIN. LOT SIZE

NOTE: EXISTING TOPO WAS FIELD RUN BY CLARK, FINEFROCK & SACKETT, INC.

### LEGEND

1 CONTOUR INTERVAL	2 FT.
2 EXISTING CONTOUR	---
3 PROPOSED CONTOUR	---
4 SPOT ELEVATION	+105
5 DIRECTION OF DRAINAGE	→
6 EXISTING TREES TO BE SAVED	☺

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

*Jessie Boyden* 11-24-87  
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING

*Kris P. Arin* 11-30-87  
PLANNING DIRECTOR DATE

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

*PO Logan* 27 Nov 87  
DATE

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

*PO Logan* 11-24-87  
DIRECTOR DATE

*PO Logan* 11-24-87  
CHIEF BUREAU OF ENGINEERING DATE

### ADDRESS CHART

LOT NO.	STREET ADDRESS
01	0324 SPRING WATER PATH
02	0320 SPRING WATER PATH
03	0310 SPRING WATER PATH
04	0312 SPRING WATER PATH
05	0308 SPRING WATER PATH
06	0304 SPRING WATER PATH
07	0300 SPRING WATER PATH

### BUILDING RESTRICTION LINES

FRONT - 40'  
SIDES - 10'  
REAR - 30' Unless Noted Otherwise



SUBDIVISION NAME	SECT./AREA	LOTS
VILLAGE OF KINGS CONTRIVANCE	5/2	61-67
FLAT NO. 7242	BLOCK # 22	ZONE R-20
TAX./ZONEMAP/ELEC. DIST. 42	GTH 6064	CENSUS TR 6064
WATER CODE E-15	SEWER CODE 0150000	

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

1111 MINISTRELL WAY • COLUMBIA, MD. 21046 • (410) 871-7200 • BALTIMORE, MD. 21201 • (410) 528-1000 • WASHINGTON, D.C. 20004 • (202) 462-1000

DESIGNED: CMS  
DRAWN: Steinberger  
CHECKED: CMS  
DATE: AUGUST 1987

**SITE DEVELOPMENT PLAN**  
LOTS 61 THRU 67  
**COLUMBIA**  
VILLAGE OF KINGS CONTRIVANCE  
SECTION 5 AREA 2  
5TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

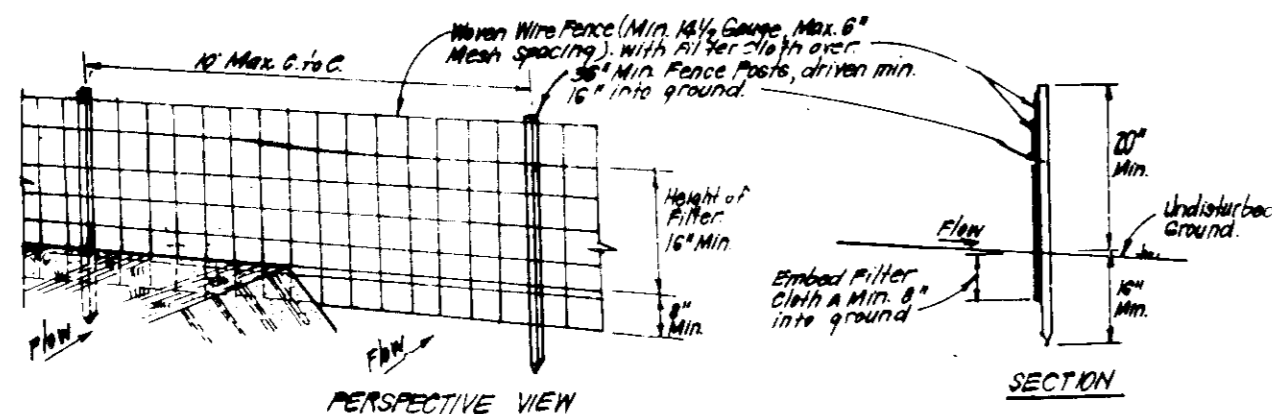
FOR: CHRIS STUBBS, INC.  
P.O. BOX 2036  
COLUMBIA, MD. 21045

SCALE: 1"=30'  
DRAWING: 1 of 2  
JOB NO: 87-084  
FILE NO: 87-084X

**SEDIMENT CONTROL NOTES**

- Minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (892-2437)
- 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.
- 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.
- All sediment traps/basins 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.
- 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 temporary seedings (Sec. 50) and matching (Sec. 51). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- 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.
- Site Analysis:
 

Total Area of Site	2.53 Acres
Area Disturbed	1.31 Acres
Area to be seeded or paved	0.97 Acres
Area to be vegetatively stabilized	0.84 Acres
Total Cut	1,600 Cu. Yds
Total Fill	1,180 Cu. Yds
Offsite waste/borrow area location	

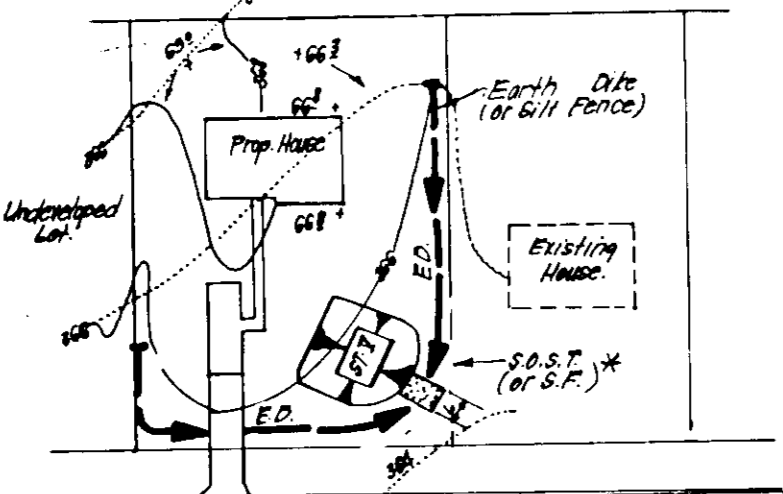


**CONSTRUCTION SPECIFICATIONS:**

- When wire fence is to be installed securely to fence posts with wire ties or staples.
- Filter cloth is to be fastened securely to inner wire fence with ties spaced every 4' 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 "pockets" develop in silt fence.

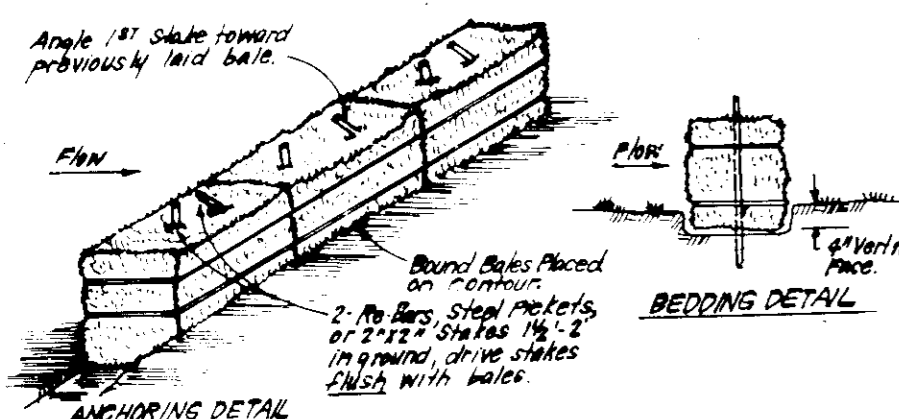
**POSTS:** Steel, either T or U Type or 2" hardwood  
**FENCE:** Heavy Wire, 1/4" Gauge  
**FILTER CLOTH:** Filter, Miraflex, 100% Synthetic, 1/2" Mesh or Equivalent  
**PREPARED UNIT:** Geotextile, 3/4" Mesh or Equivalent

**SILT FENCE DETAIL (S)**



**\* NOTE:** Single lot detail can only be utilized if only two lots sharing common property lines are to be disturbed and the same time on any lots showing a sediment trap.

**SINGLE LOT SEDIMENT CONTROL PLAN**



**CONSTRUCTION SPECIFICATIONS:**

- Bales shall be placed at the top of a slope or on the contour and in a row with ends facing up.
- 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 1/2" diameter stakes shall be driven through the bale at an angle to force the bales together. Stakes shall be driven flush with the soil.
- 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)**

**LEGEND**

1 CONTOUR INTERVAL	2 FT.
2 EXISTING CONTOUR	(---)
3 PROPOSED CONTOUR	(---)
4 SPOT ELEVATION	+105
5 DIRECTION OF DRAINAGE	(--->)
6 EXISTING TREES TO BE SAVED	(Tree Symbol)
7 WALKOUT BASEMENT	(---)
8 STRAW BALE DIKE / SILT FENCE	(---)
9 STABILIZED CONSTRUCTION ENTRANCE	(---)

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 DATE: 11-24-87

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 DATE: 11-30-87

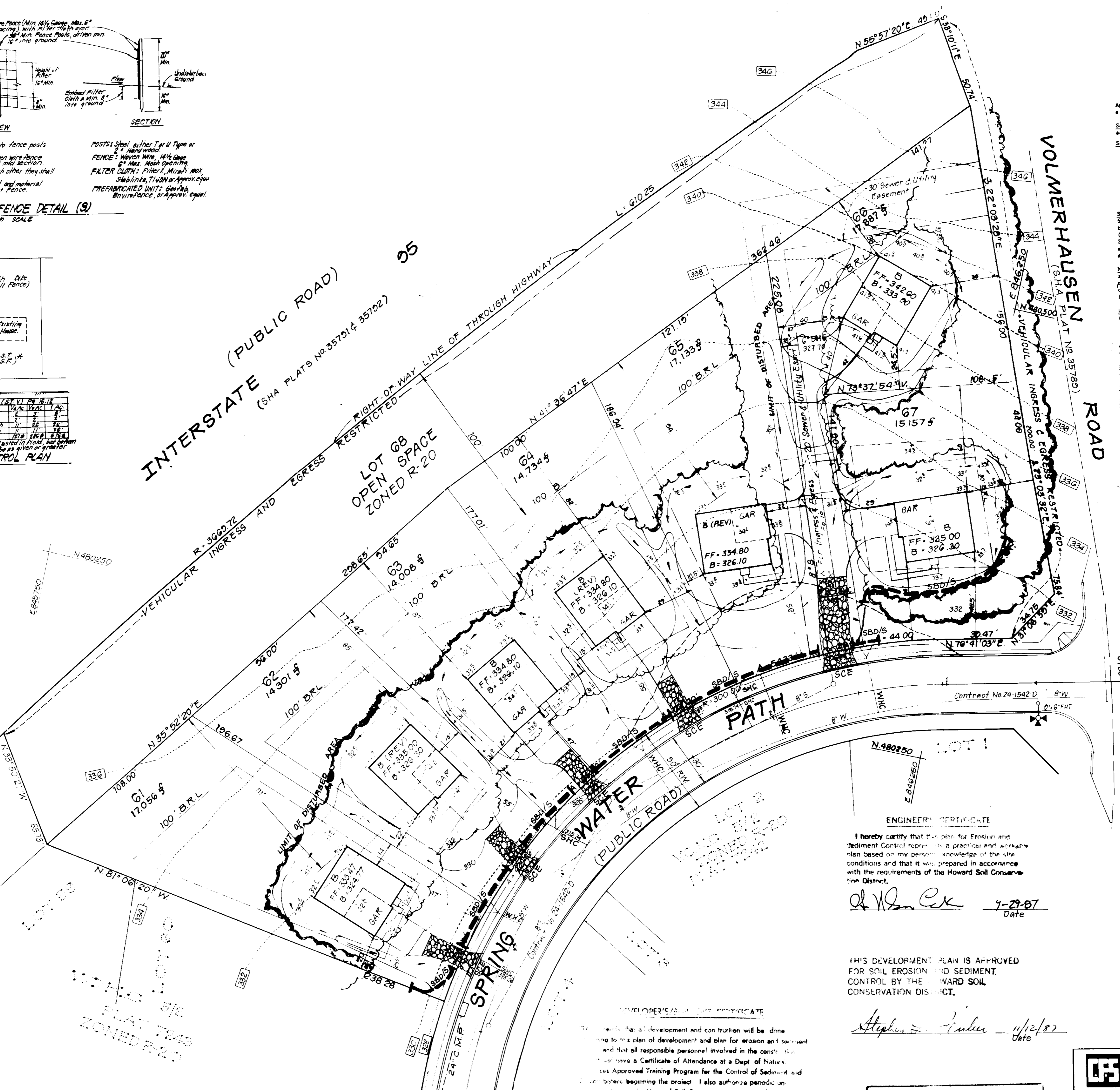
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE  
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DATE: 27 NOV. 87

DIVISION OF LAND  
 ZONING ADMINISTRATOR  
 HOWARD COUNTY  
 DATE: 9-11-87

INTERSTATE (PUBLIC ROAD)  
 (SHA PLATS NO 35701 & 35702)

VEHICULAR INGRESS AND EGRESS RESTRICTED

LOT 68 OPEN SPACE ZONED R-20



**PERMANENT SEEDING NOTES**

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

**Seeding 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:

- Preferred - Apply 2 tons per acre dolomitic limestone (47 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding.
- 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. Narrow 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 50 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 per acre of Kentucky 31 Tall Fescue. For the period May 1 thru August 15, seed with 3 lbs per acre 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 2 1/2 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 redisturbed where a short-term vegetative cover is needed.

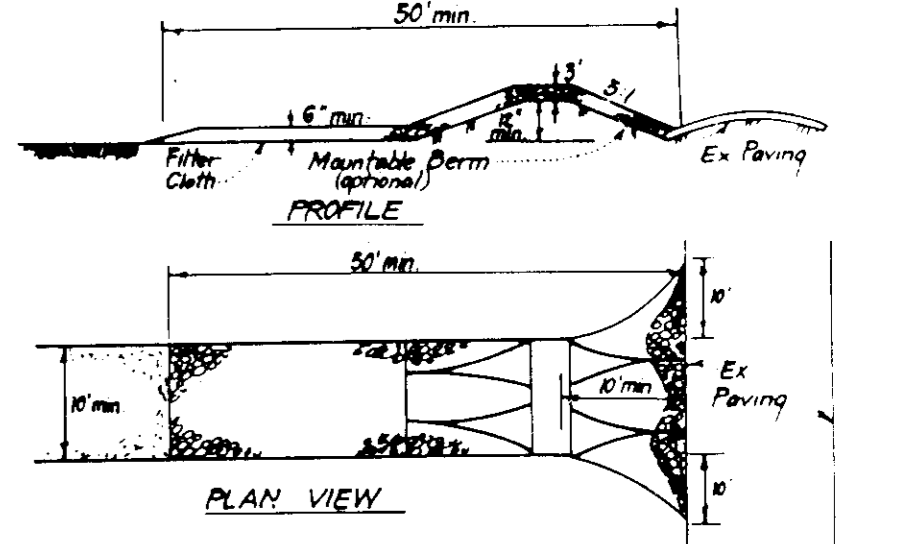
**Seeding Preparation:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

**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 25 bushes 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 2 1/2 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.



**CONSTRUCTION SPECIFICATIONS:**

- Stone size - Use 2" stone, or reclaimed or recycled concrete equipment.
- Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Ten (10) feet minimum, but not less than the full width of a point where ingress or egress occurs.
- Filter Cloth - Will be placed over the entire area prior to placing of stone.
- 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' slopes will be permitted.
- 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 construction damage and repair and/or removal of any equipment used to transport sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Warning - Whenever it shall be deemed to remove sediment prior to entrance onto public rights-of-way, when warning 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 (SCE)**

**CONSTRUCTION SEQUENCE**

CONSTRUCTION SEQUENCE	NO OF DAYS
1 Obtain grading Permit and install Sediment and Erosion Control Devices and stabilize.	15
2 Excavate for Foundations and Rough Grade & temporarily Stabilize.	30
3 Construct Structures, Sidewalks and Driveways.	180
4 Final Grade and stabilize in accordance with S&S Specs.	30
5 Upon approval of the sediment control inspector, remove sediment and erosion controls and stabilize.	15

I hereby certify that this plan for Erosion and Sediment Control represents a practical and accurate 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: 9-29-87

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

Signature: [Signature] Date: 11/2/87

DEVELOPER'S CERTIFICATE

I certify that all development and construction will be done in accordance with this plan and that all responsible personnel involved in the construction will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and that I also authorize periodic inspection by the Howard Soil Conservation District or their designees as are deemed necessary.

Signature: [Signature] Date: 9/29/87

Reviewed for HOWARD COUNTY S.C.D. and meets Technical Requirements

Signature: [Signature] Date: 11-18-87

U.S. Soil Conservation Service

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

DESIGNED: DGT  
 DRAWN: [Signature]  
 CHECKED: DGT  
 DATE: 9-29-87

**SEDIMENT & EROSION CONTROL PLAN & DETAILS**  
 LOTS 61 thru 67  
**COLUMBIA VILLAGE OF KINGS CONTRIVANCE**  
 SECTION 5 AREA 2  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

FOR: CHRIS STUBBS  
 PO BOX 2036  
 COLUMBIA, MARYLAND 21045

SCALE: 1"=30'  
 DRAWING: 2 of 2  
 JOB NO: 87-084  
 FILE NO: 87-084SE

SDP-88-27