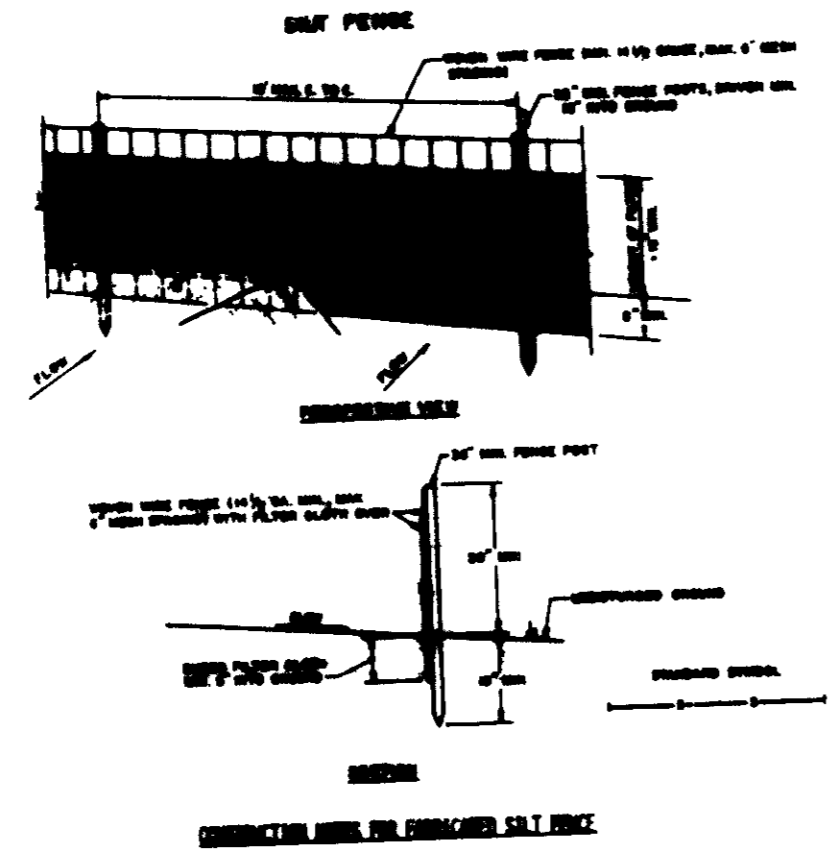


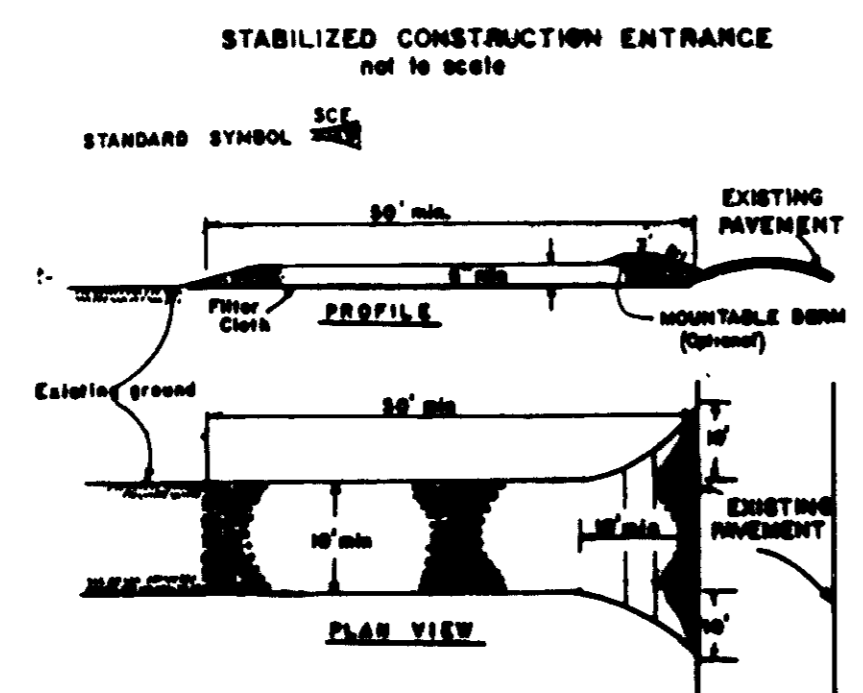
**SEEDING CONTROL NOTES**

- 1) A minimum of 24 hours notice must be given to the Howard County Office of Inspections 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 HARTLAND 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 for all other disturbed or graded areas on the project site.
- 4) All sediment traps/basins shall be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 22, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 5) All disturbed areas must be stabilized within the time periods specified above in conformance with the 1983 HARTLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 82), and (Sec. 84), temporary seeding (Sec. 80) and mulching (Sec. 82). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper penetration and establishment of grasses.
- 6) All sediment control structures are to remain in place and are to be maintained in operation condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- 7) Site Analysis:
 

Total Area of Site	1.000 acres
Area Disturbed	0.725 acres
Area to be roofed or paved	0.200 acres
Area to be vegetatively stabilized	0.275 acres
Total Cut	cu. yds.
Total Fill	cu. yds.
- 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 controls must be provided, if deemed necessary by the Howard County DPM sediment control inspector.
- 10) On all sites with disturbed areas in excess of 12 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.



1. Move soil piles to be removed directly to face with the 12" of buffer.
2. Filter cloth to be placed directly to face of pile with 12" of buffer.
3. Move the bottom of filter cloth along each side of the pile. Layer of 1/2" mesh and filter.
4. Permanent wall to be placed at 12" buffer in the dirt force.



1. Stone size - Use 2" stones, or rounded or crushed concrete equivalent.
2. Length - As required, but not less than 50 feet except on a single road.
3. Spacing - Not less than 50 feet.
4. Width - The 12" from minimum, but not less than the full width at sides where ingress is opposed.
5. Filter cloth - Will be placed over the stones. Filter cloth to be placed over the stones. Filter cloth to be placed over the stones.
6. Surface water - All surface water flowing on the road must be contained within the stones. All surface water flowing on the road must be contained within the stones.
7. Maintenance - The entrance shall be maintained in a condition which will prevent erosion or flooding of adjacent areas. This may require periodic top dressing with additional stones as conditions demand and repair and/or cleaning of any measure used to trap sediment. All sediment spilled, applied, washed or tracked onto public right-of-way must be removed immediately.
8. Cleaning - Streets shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trap/dike device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

**TEMPORARY SEEDING NOTES**

- SEEDING PREPARATION** - Loosen upper 3 inches of soil by chiseling, raking or other acceptable means, if not previously loosened.
- SOIL AMENDMENTS** - Apply 900 lbs./1000 sq.ft. of 10-20-10 fertilizer.
- SEEDING** - For periods March 1 thru April 30, and from August 15 thru November 15, seed with 2 1/2 bushels per acre (3.2 pounds/1000 sq.ft.) of untreated small grain immediately after seeding. For the period May 1 thru August 15, seed with 3 pounds per acre (3.6 lbs./1000 sq.ft.) with Weeping Lovegrass.
- MULCHING** - Apply 1.5 to 2 tons per acre (70 to 90 pounds per 1000 sq.ft.) of untreated small grain immediately after seeding. Another mulch immediately after application using 200 gallons per acre (5 gallons per 1000 sq.ft.) of untreated small grain. Or apply 8 feet or higher use 348 gallons per acre (8 gallons per 1000 sq.ft.)

**PERMANENT SEEDING NOTES**

- SEEDING PREPARATION** - Scarify or otherwise loosen upper 5 inches of soil. Seeds shall be broken up and the top three (3) inches of soil shall be worked into a satisfactory condition by raking, chiseling or other acceptable means before seeding, if not previously loosened.
- SOIL AMENDMENTS** - Apply 3 tons per acre dolomitic limestone (150 lbs./1000 sq.ft.) and 800 lbs per acre 8-20-20 fertilizer (14 lbs./1000 sq. ft.). Narrow or disc line and apply into upper three inches of soil. At time of seeding apply 600 lbs. per acre (96.2 lbs./1000 sq.ft.) of 30-0-0 urea/ammonia fertilizer and 500 lbs. per acre (11.5 lbs./1000 sq.ft.) of 10-20-20 fertilizer.
- SEEDING** - Grass seed shall be certified seed only and should be delivered to the site with original state certification. In the case of a mixture, certified by the Maryland Department of Agriculture.

**TURF GRASS MIXTURE**

Common Name	% by Min. #	Minimum #	Purity	Substitution
Tall Fescue (Ruhel 73, Howard Dog, Palom HJ-74 or Shuman RS-2)	90	90	90	
Kentucky Blue Grass (Kambra)	10	90	90	

- MULCHING** - Apply 1-1/2 to 2 tons per acre (70 to 90 lbs./1000 sq.ft.) of untreated small grain straw immediately after seeding. Apply mulch immediately after seeding. Another mulch immediately after application using 348 gallons per acre (8 gallons/1000 sq.ft.) of untreated small grain.
- MAINTENANCE** - Inspect all seeded areas and make needed repairs, replanting, and mowing.

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

DATE: 2-6-89

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING

DATE: 2-14-89

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

DATE: 1-30-89

APPROVED  
DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT  
HOWARD COUNTY, MARYLAND  
DATE: Dec 15, 1988

APPROVED FOR HOWARD S.E.D. AND ITS SUBDIVISIONS  
DATE: 1-15-89  
U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
DATE: 1/15/89

**GENERAL NOTES**

1. STORM WATER MANAGEMENT UNDER F 86-144
2. THE LAND INCLUDED IS ZONED R-20
3. COORDINATES SHOWN ARE EXTENSIONS MADE FROM THE MARYLAND STATE PLANE COORDINATE SYSTEM. BEARINGS REFER TO THE TRUE NORTH AND ARE BASED ON HOWARD COUNTY GEODETIC SURVEY
4. THE AREA COVERED IN THIS SUBMISSION IS LOCATED ON TAX MAP 17
5. THE TOTAL AREA ON THIS PLAN IS 47,453 SQ FT (1.090 AC)
6. ALL ROADS ARE PUBLIC, AND EXISTING
7. ANY DAMAGE TO COUNTY OWNED RIGHT-OF-WAYS SHALL BE CORRECTED AT THE DEVELOPERS EXPENSE.
8. TOTAL NUMBER OF LOTS IN THIS SUBMISSION ARE 3
9. STREET TREES WILL BE PROVIDED IN ACCORDANCE WITH SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS BY THE DEVELOPER
10. PREVIOUS RELATED PLAN FILE REFERENCES AS FOLLOWS:  
V.P. 85-88, V.P. 80-01, S 85-23, S 86-06, P 85-36  
FINAL 86-144, RECORDED PLAT # 7303 & S.O.P. 88-158

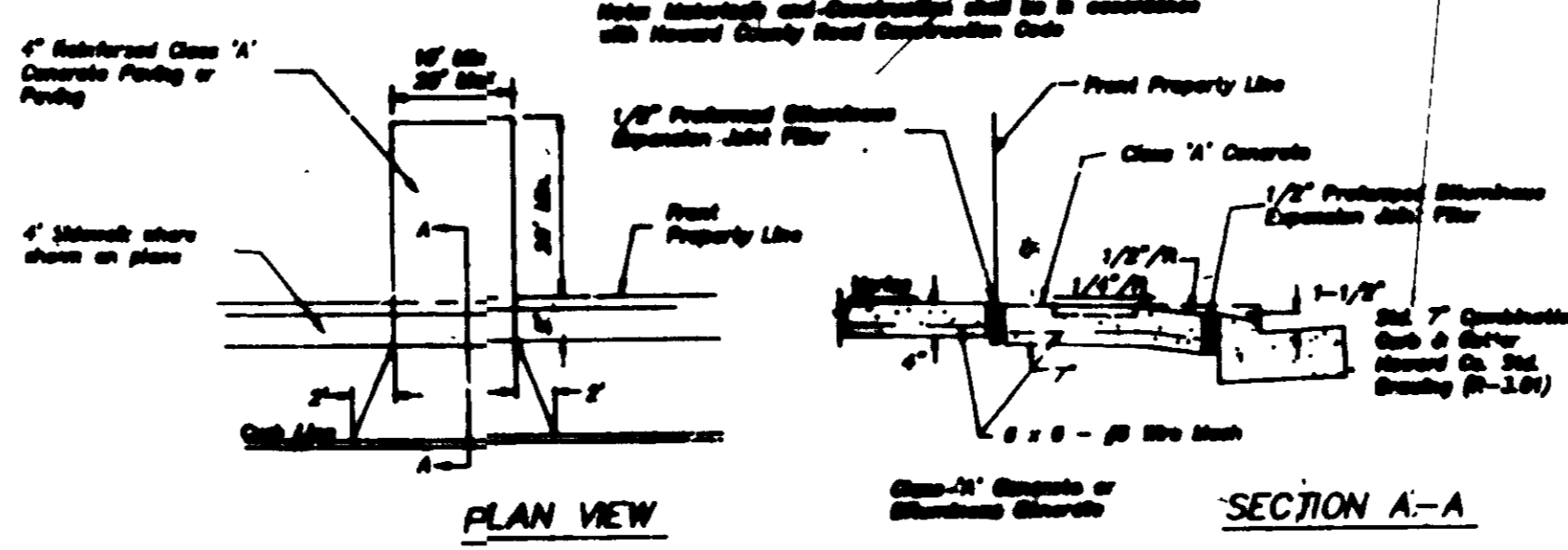
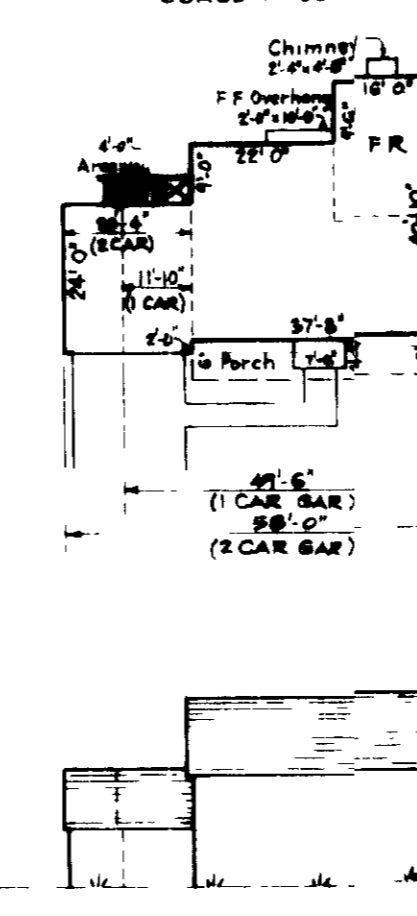
**SEQUENCE OF OPERATIONS**

DESCRIPTION	WEEK
1. "OBTAIN GRADING PERMIT", Notify Sediment Control Division 48 hours prior to start of operation.	1
2. Clear and grub for sediment control measures only.	1-3
3. Grade for sediment control measures in designated areas.	2-3
4. Install all sediment control measures that do not conflict with existing sediment traps and basins.	3-5
5. Clear and grub remainder of site.	5-7
6. Excavate foundations and rough grade site excluding lots.	7-10
7. With the approval of the inspector install remaining sediment control devices on the remaining lots.	9-10
8. Excavate and rough grade lots.	10-12
9. Fine grade, topsoil, and seed areas immediately.	8-15
10. After turf is established and upon the approval of the inspector, remove temporary sediment control measures and clean up site.	15-20

**MINIMUM LOT SIZE CHART**

LOT #	GROSS AREA #	25% SLOPE ORDER	MIN. LOT SIZE
14	14,192	NONE	14,100
15	14,700	2.00 #	14,100
16	18,561	2.02 #	14,536

**HOUSE TYPES**



DEVELOPERS/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 PERSONS 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 CONTROL BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OF THEIR AUTHORIZED AGENTS AS DEEMED NECESSARY.

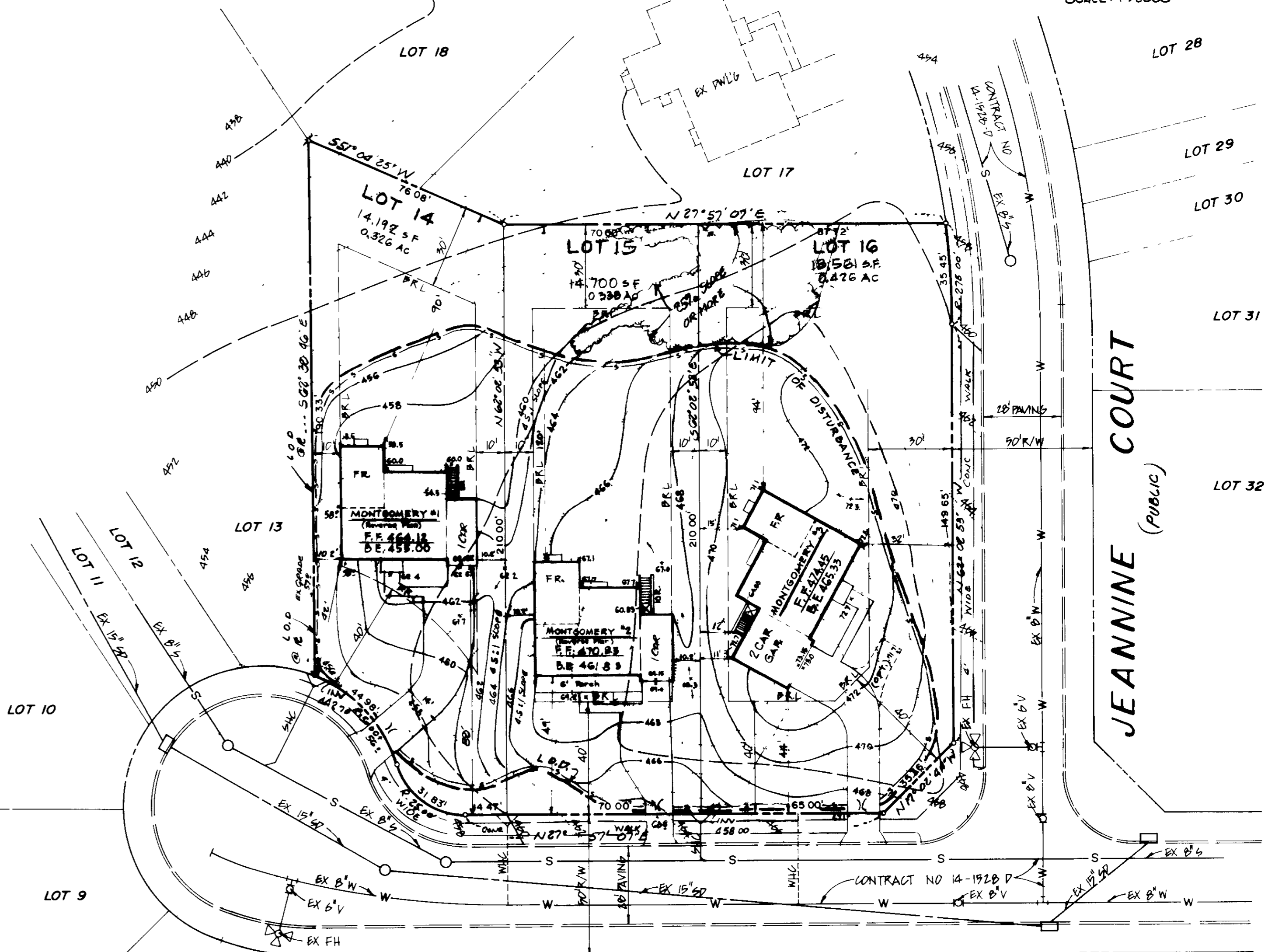
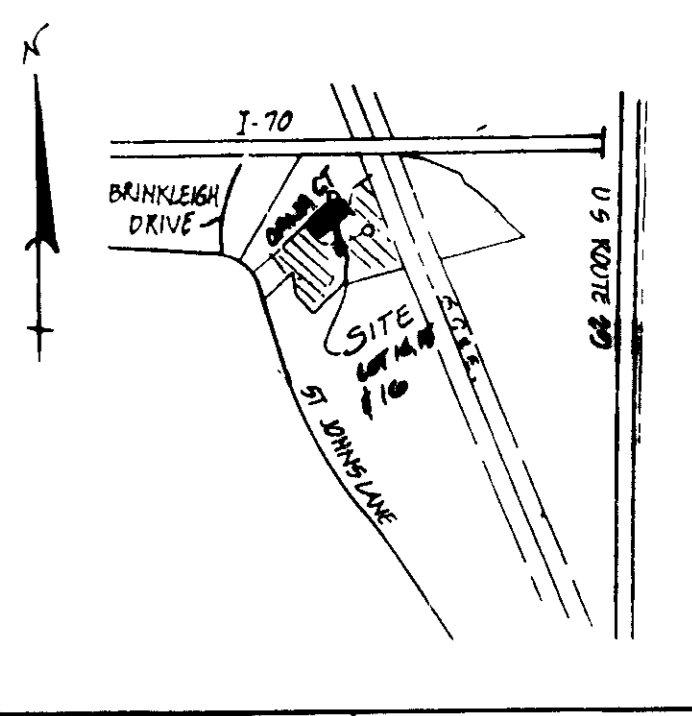
DATE: 1/17/89

ENGINEERS CERTIFICATE  
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

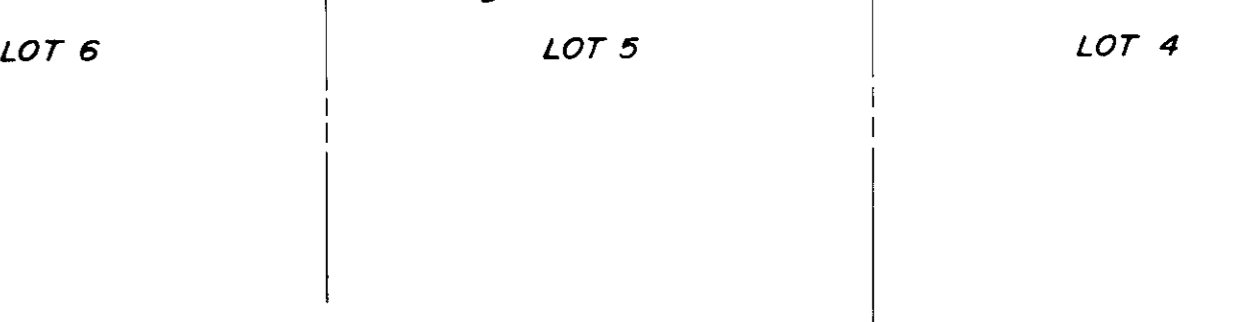
DATE: 1/18/89

**SITE ANALYSIS**

- AREA OF PARCEL 47,453 SQ FT (1.090 AC)
- PRESENT ZONING, R 20
- PREVIOUS RELATED PLAN FILE REF AS FOLLOWS: V.P. 85-88, V.P. 80-01, S 85-23 & 86-06, P 85-36 FINAL 86-144 RECORDED PLAT # 7303
- BUILDING COVERAGE LOT 14 0.12%, LOT 15 0.12%, LOT 16 0.10%
- NUMBER SINGLE FAMILY DWELLINGS PROPOSED 3 UNITS
- NUMBER SINGLE FAMILY DWELLINGS ALLOWED 3 UNITS



**DANA COURT**



LOT NUMBER	STREET ADDRESS
LOT 14	3838 DANA COURT
LOT 15	2884 DANA COURT
LOT 16	3840 DANA COURT

**ST. JOHNS WOODS**

SITE DEVELOPMENT & SEDIMENT CONTROL PLAN  
SECOND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

FOR: KNECHT ENTERPRISES  
\* 3830 BETHANY LAKE  
61100TT CITY MD 21048  
PHONE 486-0030

DESIGNED P.S. DRAWN P.S. CHECKED P.W.

SCALE: 1/8"=1'-0"