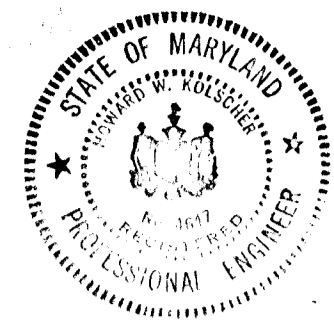


ENGINEER'S CERTIFICATE:

I certify that the plan for Erosion & Sediment Control represents a practical & workable plan based on my professional knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District.

*Howard M. Kelly* 1/19/78  
Signature Date  
HOWARD CO. SOIL CONSERVATION DISTRICT



HOWARD CO. SOIL CONSERVATION DISTRICT  
APPROVED FOR SEDIMENT CONTROL  
*Robert Zickler* 7-7-78  
DISTRICT OFFICIAL  
TECHNICAL REVIEW FOR DISTRICT  
BY *C. Wayne Ray* 7-7-78  
USDA SOIL CONSERVATION SERVICE

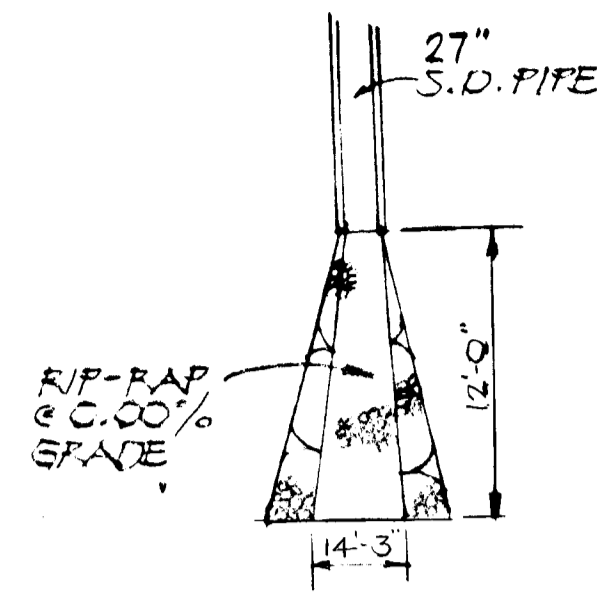
SEDIMENT CONTROL NOTES

1. Notify the Howard County Bureau of Inspection & Permits @ least 24 hrs. before starting work. 992-2434.
2. All sediment control devices are to remain in place until permission for removal has been obtained from the Howard County Bureau of Inspection & Permits.
3. Structural measures such as berms, dikes, traps, basins, etc. will be installed & stabilized according to the plan prior to any disturbance of the existing surface of the site.
4. On site inspection & maintenance of all sediment control measures including cleanout of traps & berms 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.

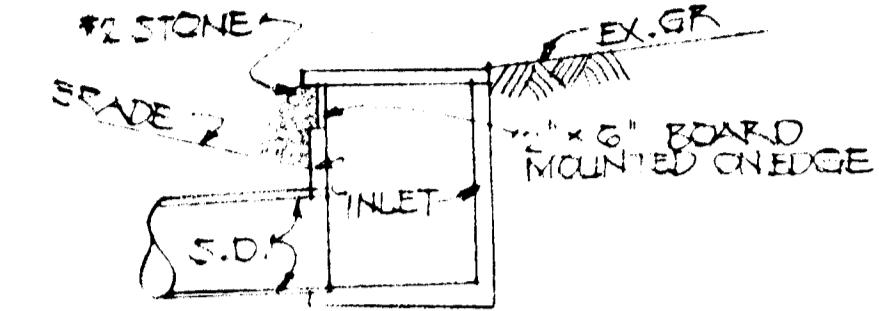
DEVELOPER'S CERTIFICATE:

I certify that all development and/or construction will be done according to this plan of development & plan for erosion & sediment control and I authorize periodic on-site inspection by the Howard County Soil Conservation District or their authorized agents as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

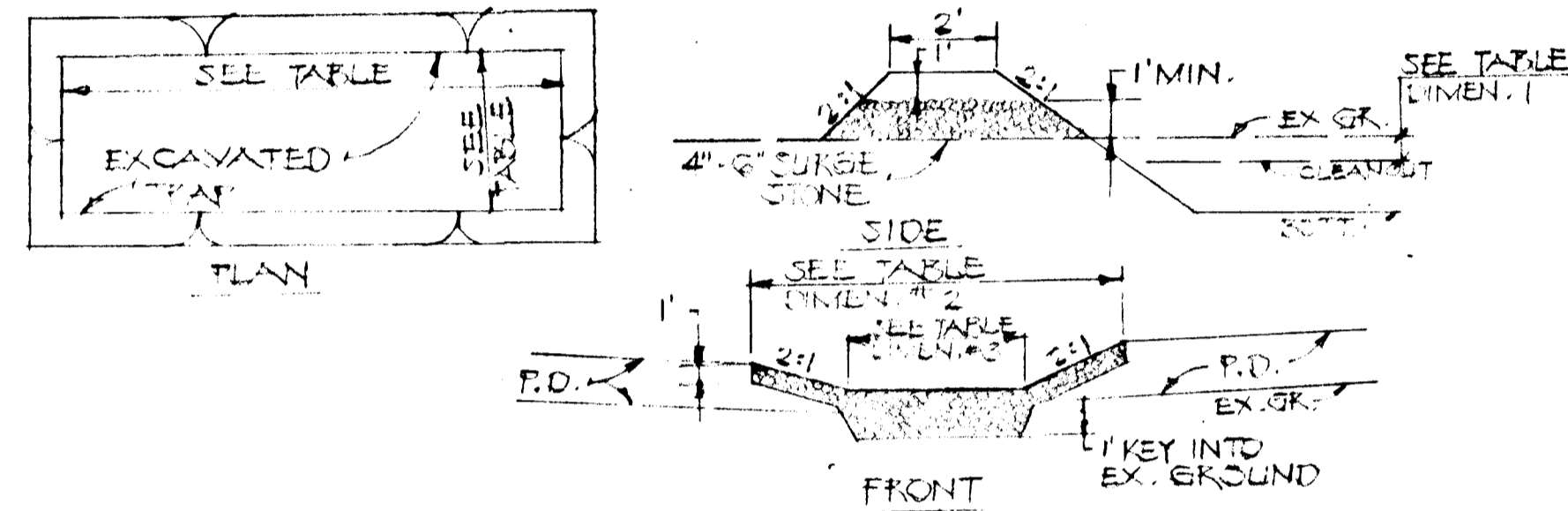
*Margaret G. Allnutt* 2-7-78  
Signature Date  
MARGARET G. ALLNUTT



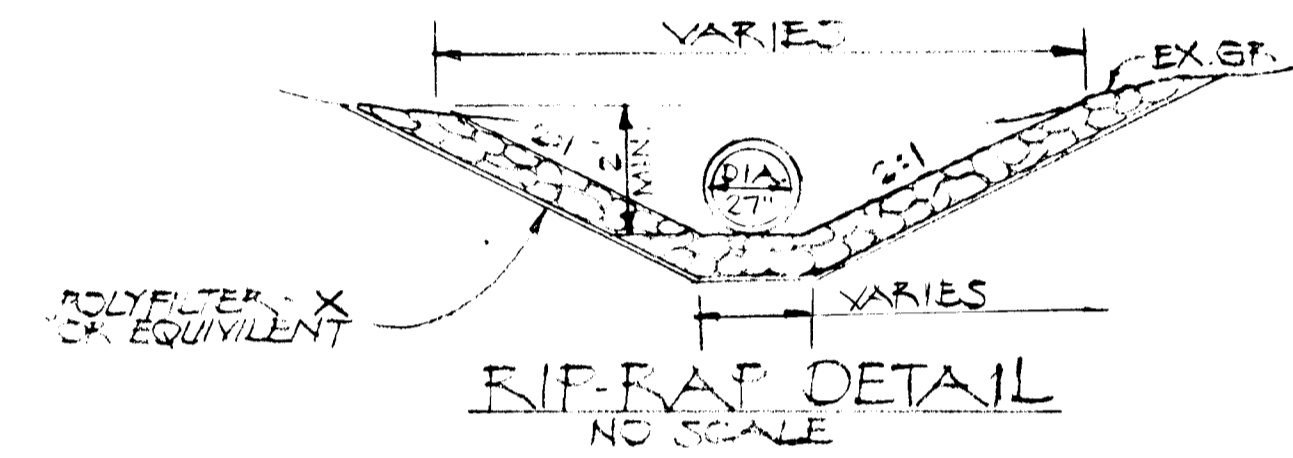
OUTFALL DETAIL  
NO SCALE



INLET PROTECTION  
NO SCALE



SEDIMENT TRAP & STONE OUTLET  
STRUCTURE



RIP-RAP DETAIL  
NO SCALE

TEMPORARY SEEDING PROCEDURES

1. Seed immediately upon construction with 1 lb. Rye grass/1000 S.F.
2. Apply 46 lbs./1000 S.F. of pulverized dolomitic limestone & 11.5 lbs. to 16.4 lbs./1000 S.F. of 10-10-10 or equivalent fertilizer.
3. Harrow or disc limestone & fertilizer into the soil to a depth of @ least 3 in. continue tillage until a reasonably firm seedbed has been prepared on sloping land the final harrowing should be on the contour.
4. Mulch with straw @ 75 lbs./1000 S.F.

PERMANENT SEEDING PROCEDURES

1. Apply 50 lbs./1000 S.F. of limestone.
2. Apply fertilizers @ rate of 25 lbs. of 10x10x10 per 1000 S.F. depending on soil tests.
3. Harrow or disc fertilizer into soil to a depth of 3 in.
4. Seed with 31 tall fescue @ a rate of 5 lbs./1000 S.F. or other S.C.S. approved plan.
5. Mulch with small-grain straw 1.5 to 2.0 tons/acre (75-90 lbs/1000 S.F.)
6. Anchor mulch with sprayed asphalt @ 0.1 gal./sq. yd.

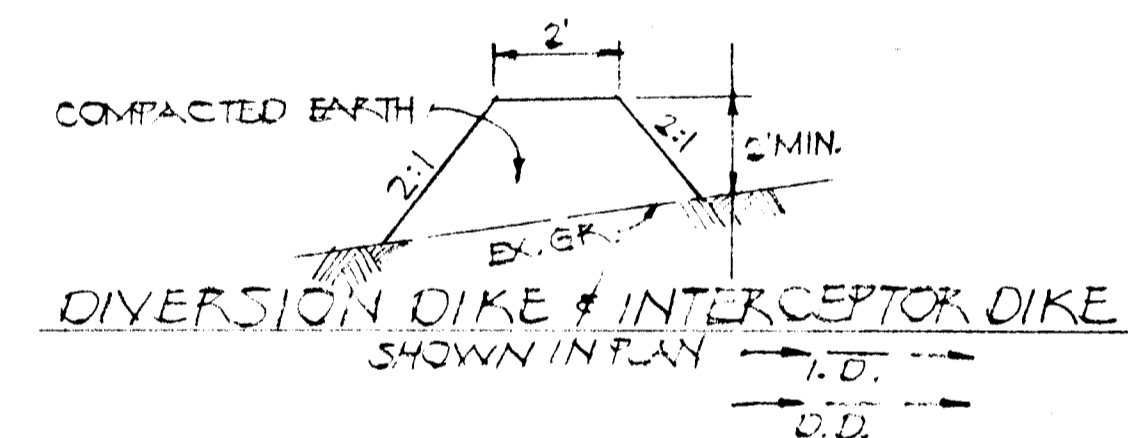
VEGETATIVE COVER OPTIONS

Period	Options
Feb. 1 to May 1	1. Sod 2. Seed & Mulch
May 1 to Aug. 15	1. Sod 2. Mulch, Anchor, tool, then seed during next period
Aug. 15 to Nov. 1	1. Sod 2. Seed & Mulch
Nov. 1 to Feb. 1	1. Sod - delay until next period if ground is frozen 2. Mulch, Anchor, tool, then seed during next period

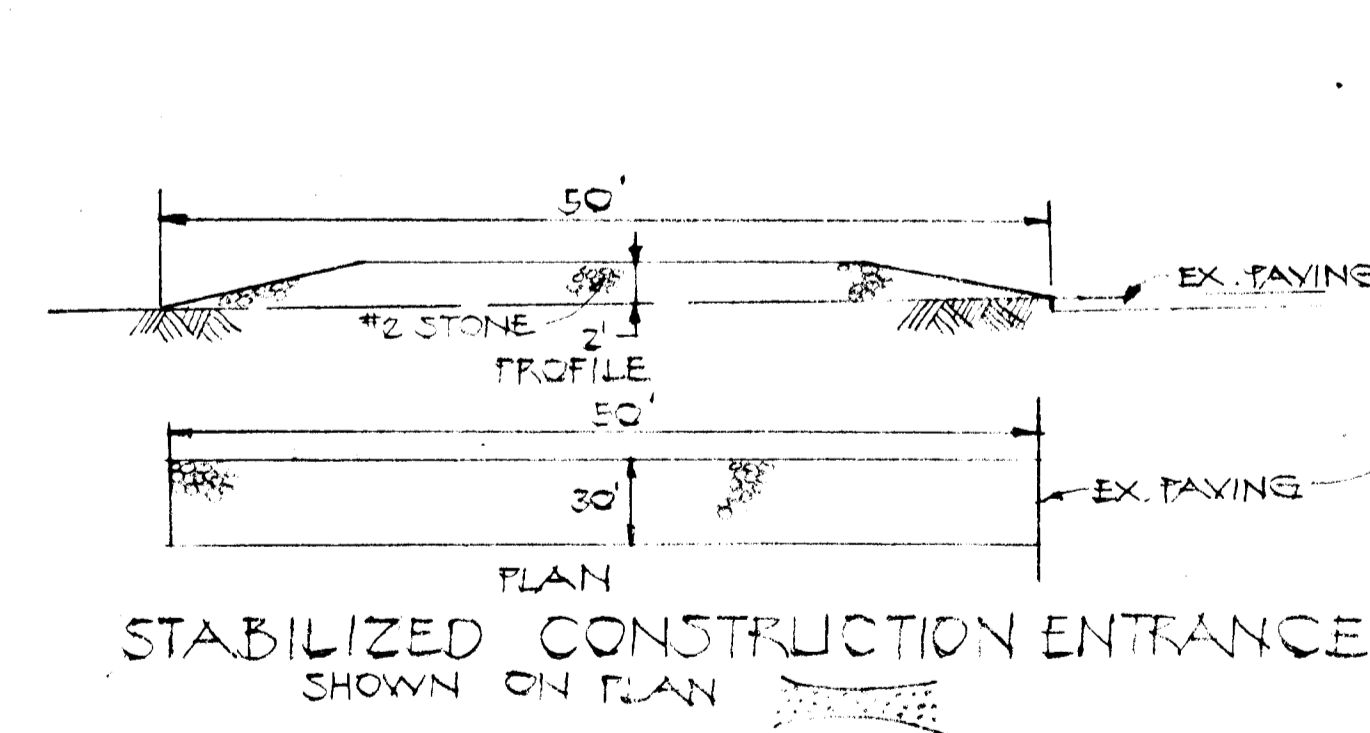
SEQUENCE OF CONSTRUCTION

1. Obtain grading permit.
2. Notify Howard Co. Dept. of Inspection & permits 992-2434.
3. Install Sediment control devices.
4. Rough grade site.
5. Install storm drains. Block openings @ all inlets until all areas are stabilized.
6. Repair devices as required.
7. Fine grade & place subgrade in road beds. Stabilize areas not to be paved.
8. Proceed with road construction.
9. Remove sediment control devices after obtaining Howard Co. approval.

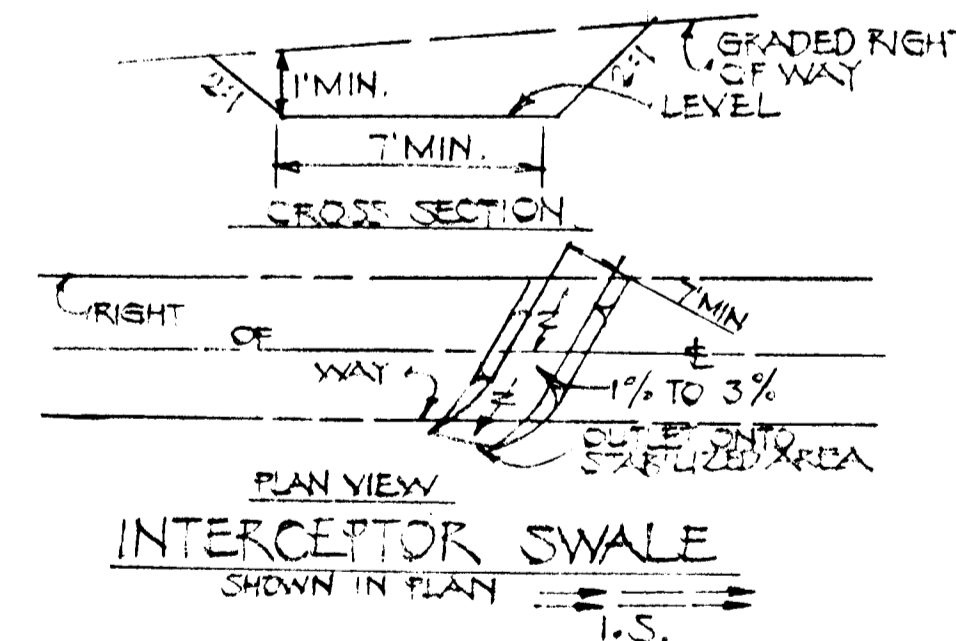
Trap	No.	Main Area	Dist. Area	Vol. H <sub>2</sub> O	Vol. Tr. Com.	Size	Dist. Dimensions	Elev. at Outlet
A		1.8 AC.	1.5 AC.	101 CY	101 CY	30x30x31	12'	0'
B		1.8 AC.	1.8 AC.	121 CY	121 CY	40x40x21	15'	1.05'



DIVERSION DIKE & INTERCEPTOR DIKE  
SHOWN IN PLAN



STABILIZED CONSTRUCTION ENTRANCE  
SHOWN ON PLAN



INTERCEPTOR SWALE  
SHOWN IN PLAN

SEDIMENT CONTROL PLAN  
SECTION THREE ALLNUTT FARMS ESTATES  
ELECTION DISTRICT 5-HOWARD COUNTY, MO.  
SCALE: AS SHOWN JANUARY 17, 1978

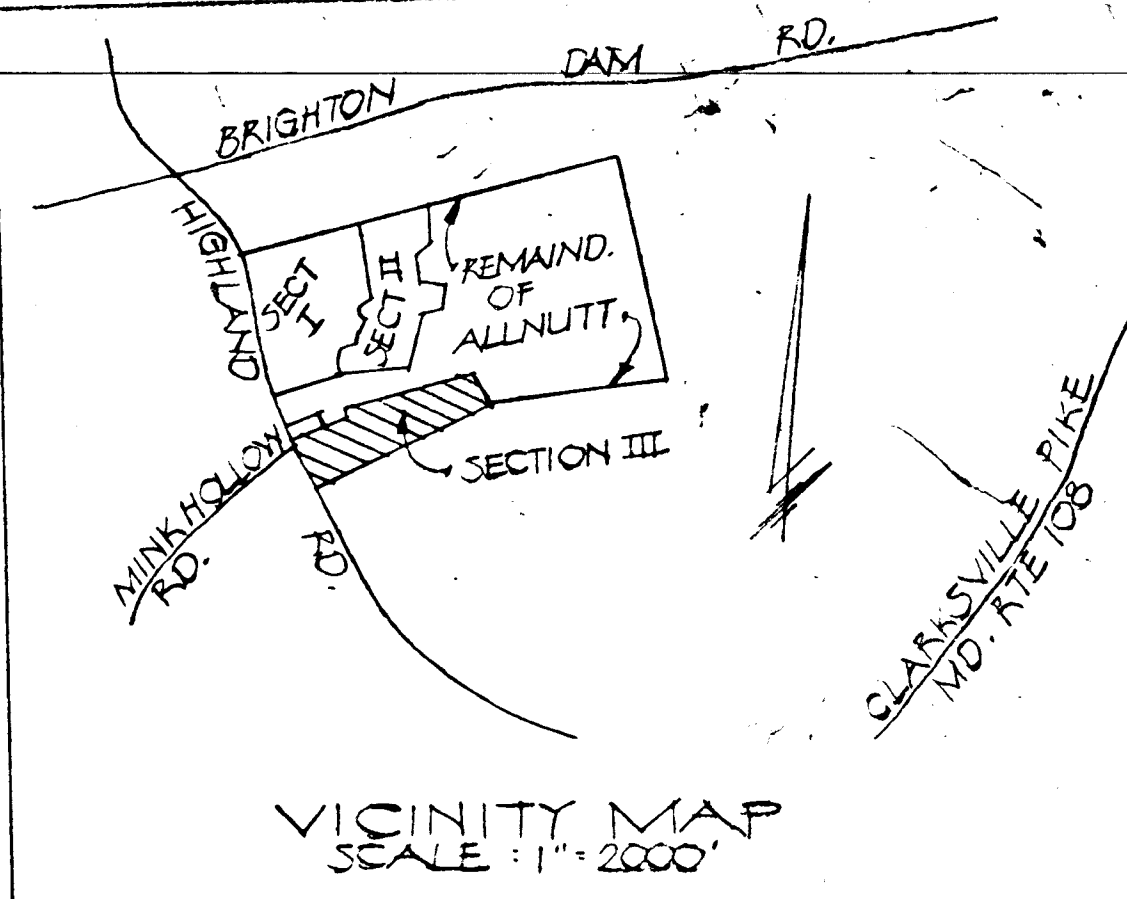
SHEET 1 OF 2

NOTE: Approval of this plan covers road construction only. Individual lot owners will be responsible for providing sediment control measures in conjunction with bldg. permits.

XXAL-78-001

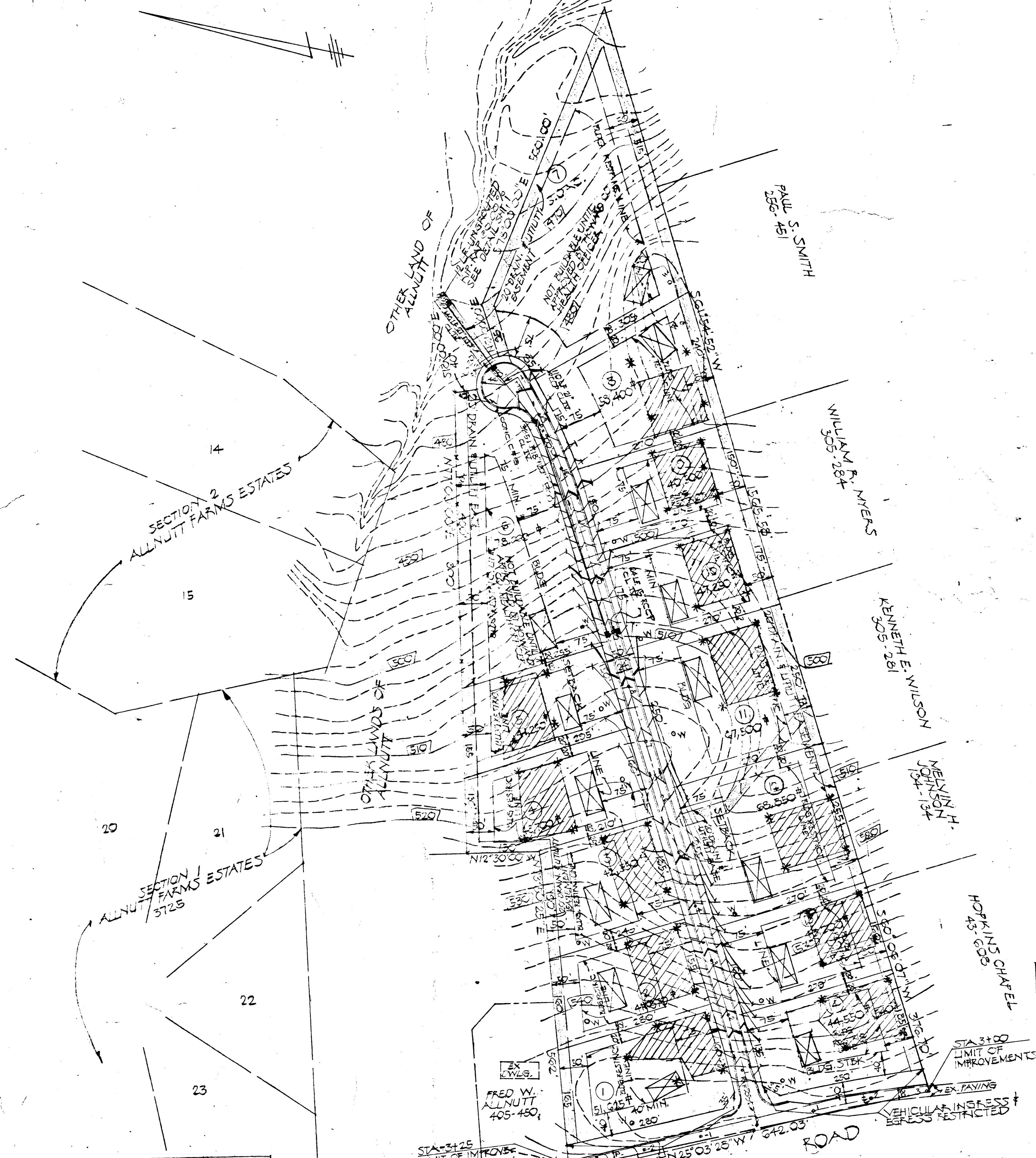
AS BUILT DEC 28, 1982

#544  
Sec. 3



**ENGINEER'S CERTIFICATE:**  
I CERTIFY THAT THE PLAN FOR EROSION & SEDIMENT CONTROL REPRESENTS A PRACTICAL & WORKABLE PLAN BASED ON MY PROFESSIONAL KNOWLEDGE OF THE SITE CONDITIONS & THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD CO. SOIL CONSERVATION DISTRICT.  
Howard W. Kulscher 4/6/78  
HOWARD W. KULSCHER DATE

**DEVELOPER'S CERTIFICATE:**  
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT & PLAN FOR EROSION & SEDIMENT CONTROL & I AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD CO. SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD CO. SOIL CONSERVATION DISTRICT.  
Margaret G. Allnutt 4-6-78  
MARGARET G. ALLNUTT DATE



HOWARD CO. SOIL CONSERVATION DISTRICT  
APPROVED FOR SEDIMENT CONTROL  
Debra Ziel 7-7-78  
DISTRICT OFFICIAL  
TECHNICAL REVIEW FOR DISTRICT  
BY Wayne Ray 7-7-78  
USDA SOIL CONSERVATION SERVICE

SEDIMENT CONTROL PLAN  
SECTION 3 - ALLNUTT FARMS ESTATES  
ELECTION DISTRICT 5 HOWARD CO., MD.  
SCALE 1"=100' MAY 13, 1977  
  
SHEET 2 OF 2  
  
TAX MAP 34 PARCEL 170 & 74  
TITLE REF: 175-93 & 286-513  
  
XXAL-78-002 AS BUILT DEC. 28, 1982

APPROVED FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS.  
HOWARD COUNTY HEALTH DEPARTMENT  
  
\_\_\_\_\_  
COUNTY HEALTH OFFICER  
  
\_\_\_\_\_  
DATE

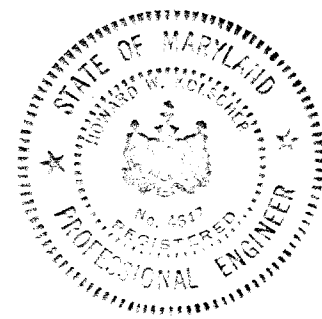
HUDKINS ASSOC. INC  
200 E. JOFFA RD.  
TOWSON, MD 21204  
328-5060  
5/14/78



ENGINEER'S CERTIFICATE:

I certify that the plan for Erosion & Sediment Control represents a practical & workable plan based on my professional knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District.

*James M. Kelly* 1/9/78  
Signature Date



SEDIMENT CONTROL NOTES

1. Notify the Howard County Bureau of Inspection & Permits @ least 24 hrs. before starting work. 465-5000
2. All sediment control devices are to remain in place until permission for removal has been obtained from the Howard County Bureau of Inspection & Permits.
3. Structural measures such as berms, dikes, traps, basins, etc. will be installed & stabilized according to the plan prior to any disturbance of the existing surface of the site.
4. On site inspection & maintenance of all sediment control measures including cleanup of traps & berms 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.

DEVELOPER'S CERTIFICATE:

I certify that all development and/or construction will be done according to this plan of development & plan for erosion & sediment control and I authorize periodic on-site inspection by the Howard County Soil Conservation District or their authorized agents as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

*Margaret A. Almonte* 2-7-78  
Signature Date

TEMPORARY SEEDING PROCEDURES

1. Seed immediately upon construction with 1 lb. Rye grass/1000 S.F.
2. Apply 46 lbs./1000 S.F. of pulverized dolomitic limestone & 11.5 lbs. to 18.4 lbs./1000 S.F. of 10-10-10 or equivalent fertilizer.
3. Harrow or disc limestone & fertilizer into the soil to a depth of @ least 3 in. continue tillage until a reasonably firm seedbed has been prepared on sloping land the final harrowing should be on the contour.
4. Mulch with straw @ 75 lbs./1000 S.F.

PERMANENT SEEDING PROCEDURES

1. Apply 50 lbs./1000 S.F. of limestone.
2. Apply fertilizers @ rate of 25 lbs. of 10x10x10 per 1000 S.F. depending on soil tests.
3. Harrow or disc fertilizer into soil to a depth of 3 in.
4. Seed with 31 tall fescue @ a rate of 5 lbs./1000 S.F. on other S.C.S. approved plan.
5. Mulch with small-grain straw 1.5 to 2.0 tons/acre (75-80 lbs/1000 S.F.)
6. Anchor, mulch with sprayed asphalt @ 0.1 gal./sq. yd.

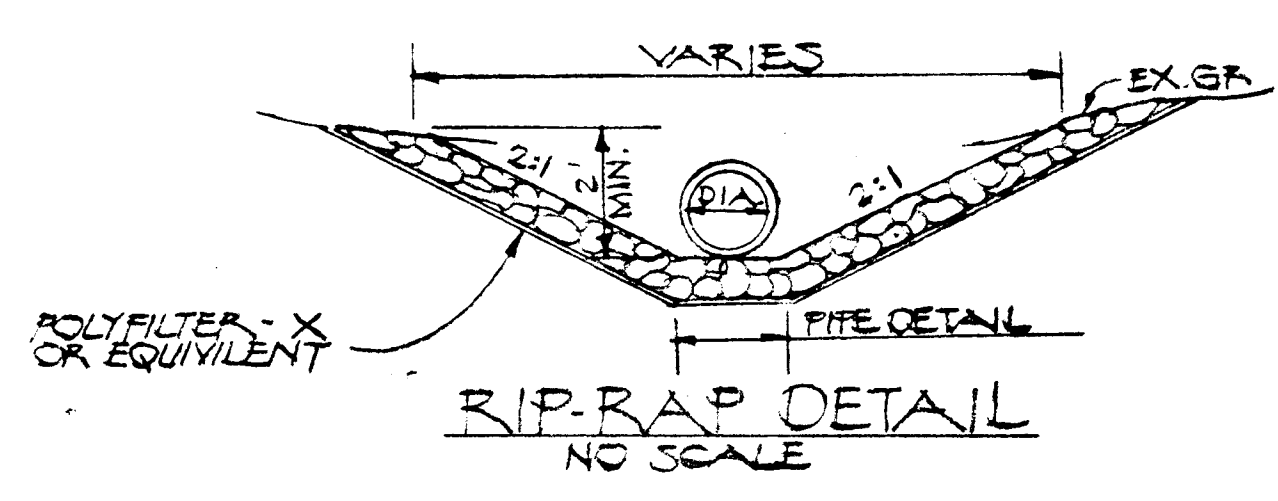
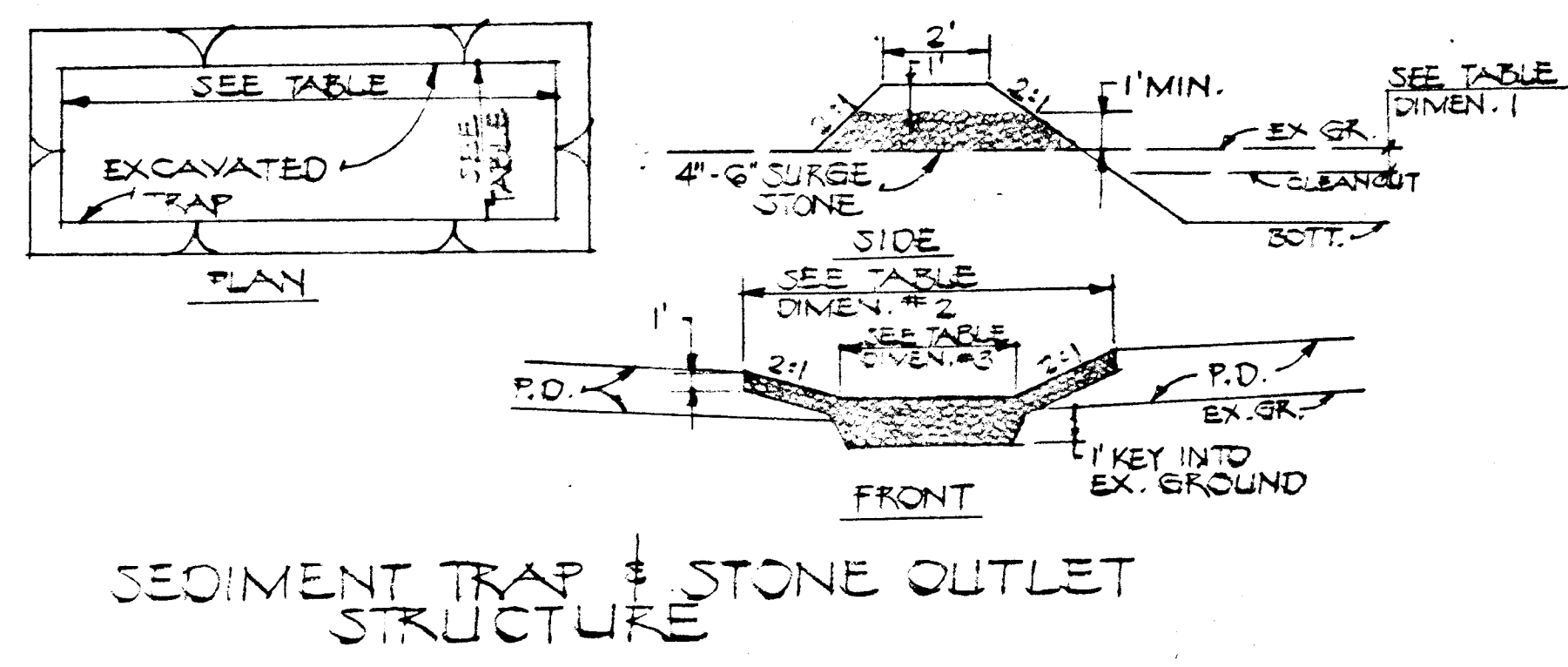
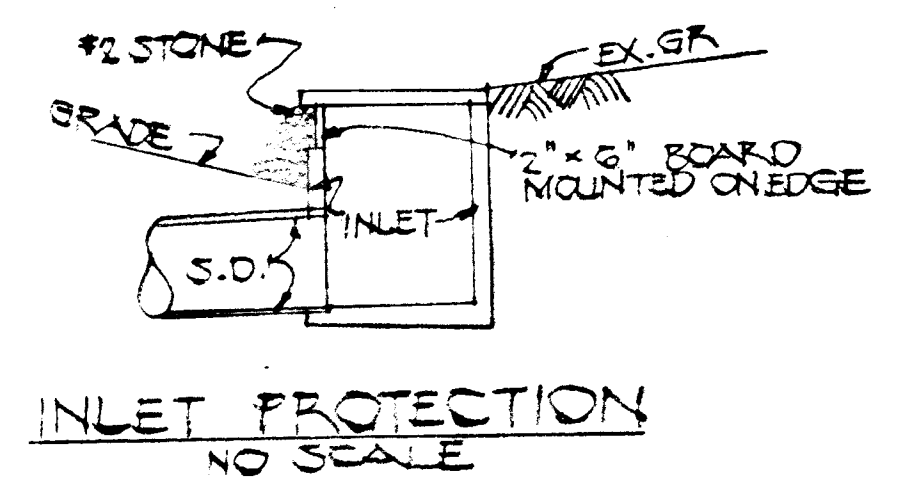
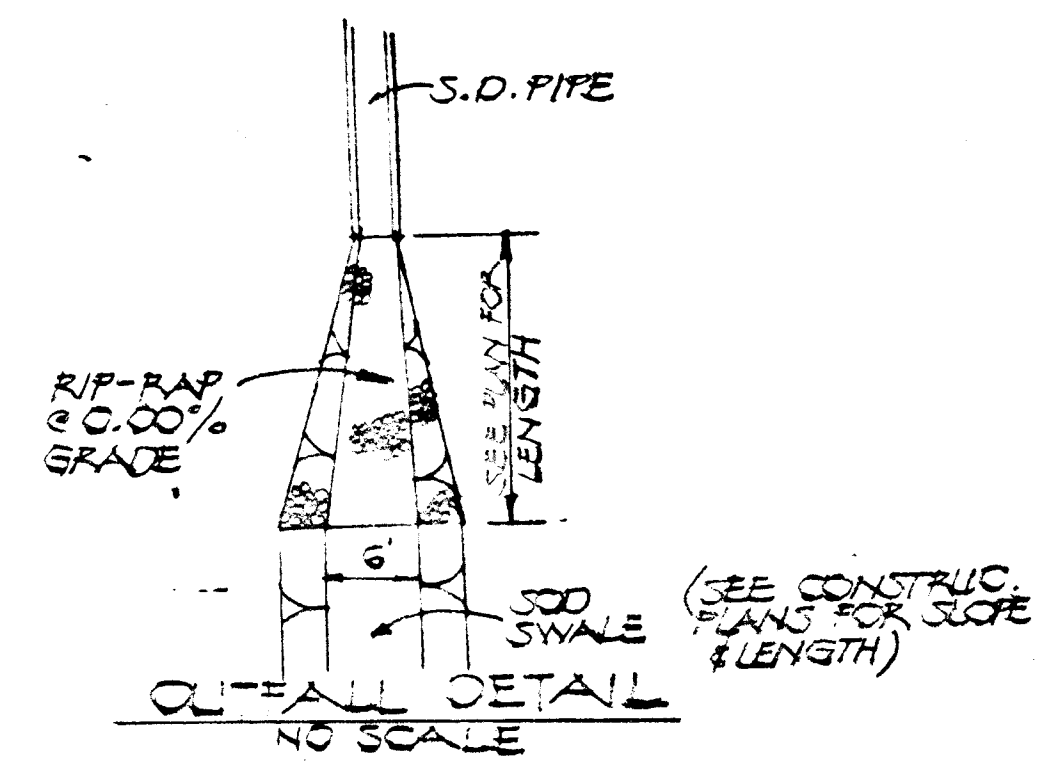
VEGETATIVE COVER OPTIONS

- |                   |  |
|-------------------|--|
| Feb. 1 to May 1   | 1. Sod<br>2. Seed & Mulch  |
| May 1 to Aug. 15  | 1. Sod<br>2. Mulch, Anchor, tool, then seed during next period   |
| Aug. 15 to Nov. 1 | 1. Sod<br>2. Seed & Mulch  |
| Nov. 1 to Feb. 1  | 1. Sod - delay until next period if ground is frozen<br>2. Mulch, Anchor, tool, then seed during next period |

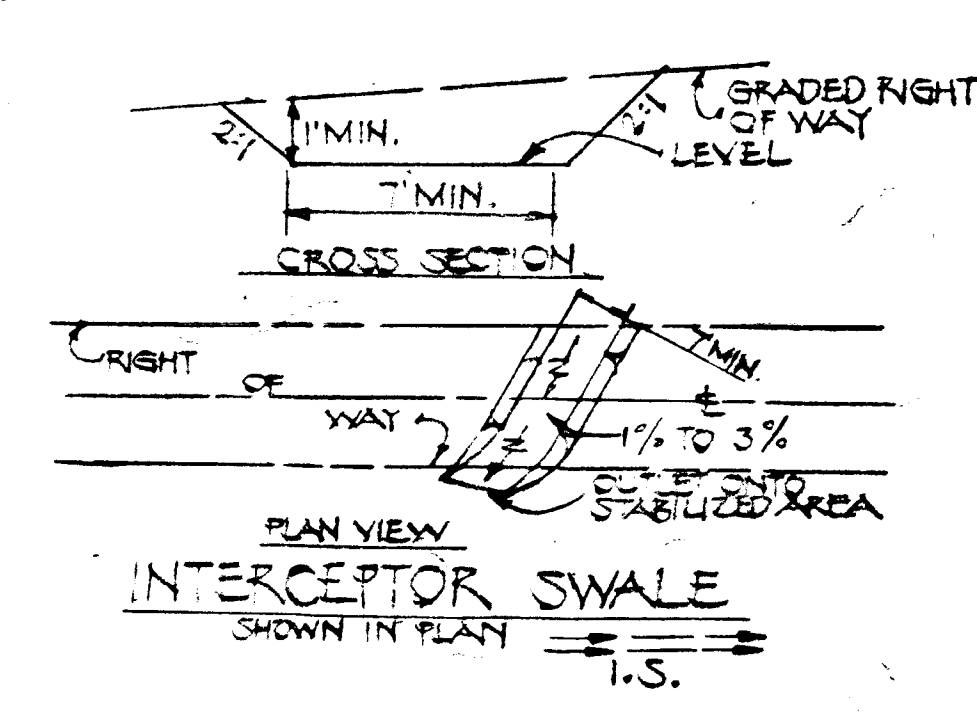
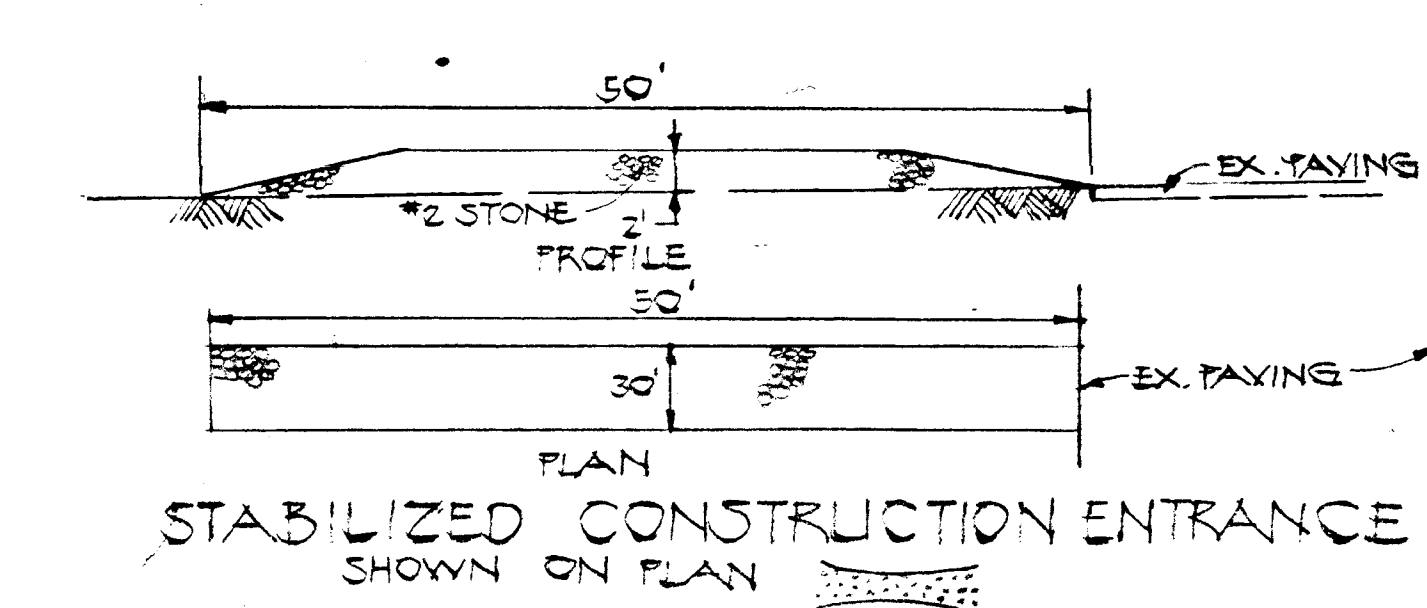
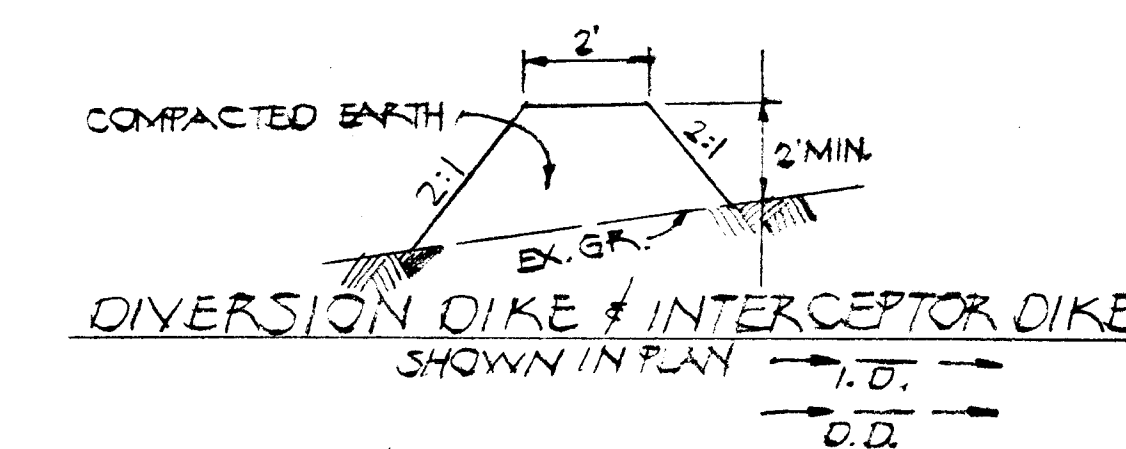
SEQUENCE OF CONSTRUCTION

1. Obtain grading permit.
2. Notify Howard Co. Dept. of Inspection & permits 465-3480
3. Install Sediment control devices.
4. Rough grade site.
5. Install storm drains. Block openings @ all inlets until all areas are stabilized.
6. Repair devices as required.
7. Fine grade & place subgrade in road beds. Stabilize areas not to be paved.
8. Proceed with road construction.
9. Remove sediment control devices after obtaining Howard Co. approval.

HOWARD CO SOIL CONSERVATION DISTRICT  
APPROVED FOR SEDIMENT CONTROL  
*James M. Kelly* DISTRICT OFFICIAL 2-1-78  
TECHNICAL REVIEW FOR DISTRICT  
BY *C. W. [unclear]* 2-1-78  
USDA SOIL CONSERVATION SERVICE



TRAP NO.	RAIN AREA AC.	AREA AC.	VOL. REQ. CY	VOL. PROV. CY	SIZE	ISSUE	CONSTRUCTION	PERMIT
A	1.4	1.2	34	34	30x40x2.1	13'	5'	1.05'
B	1.0	1.0	27	27	30x30x2.0	10'	2'	1.0'
C	2.5	2.4	187	187	40x50x2.5	21'	17'	1.25'
D	2.7	2.0	181	181	40x50x2.4	21'	17'	1.2'
E	2.0	2.8	34	104	40x50x2.6	22'	18'	1.3'
F	1.2	1.4	107	107	30x40x2.4	14'	10'	1.2'
G	1.3	1.0	27	27	30x30x2.0	12'	8'	1.3'



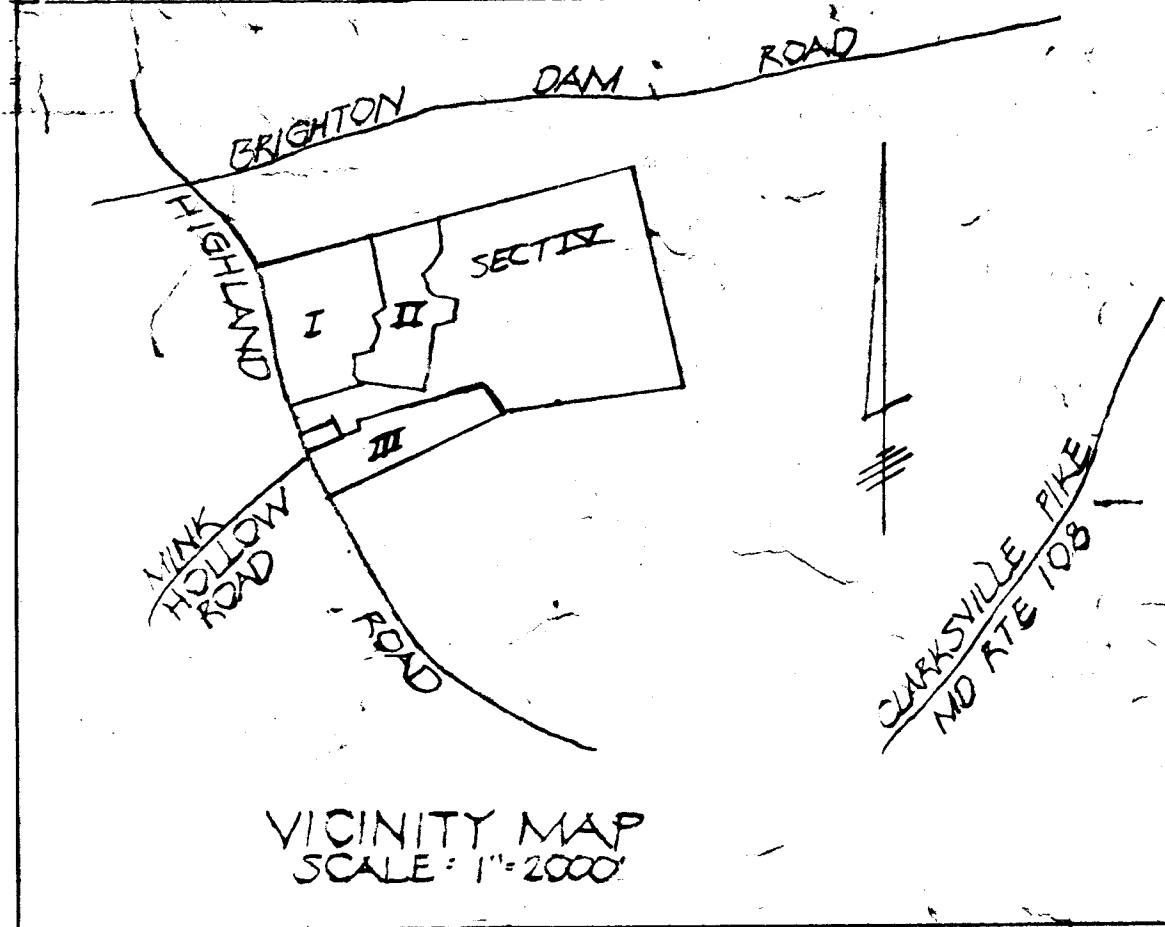
NOTE: Approval of this plan covers road construction only. Individual lot owners will be responsible for providing sediment control measures in conjunction with bldg. permits.

SEDIMENT CONTROL PLAN  
SECTION FOUR - ALLNUTT FARMS ESTATES  
ELECTION DISTRICT 5 - HOWARD COUNTY, MO.  
SCALE: AS SHOWN  
JANUARY 17, 1978  
SHEET 1 OF 2  
XXAL - 78 - 003

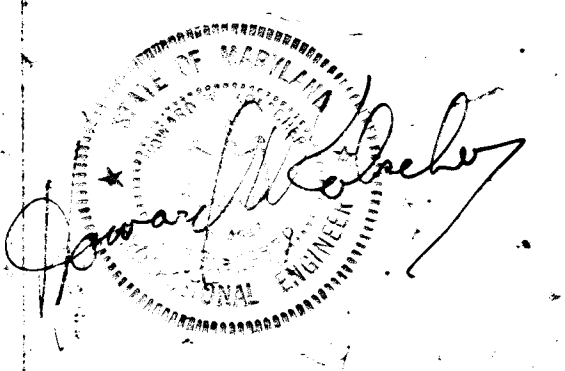
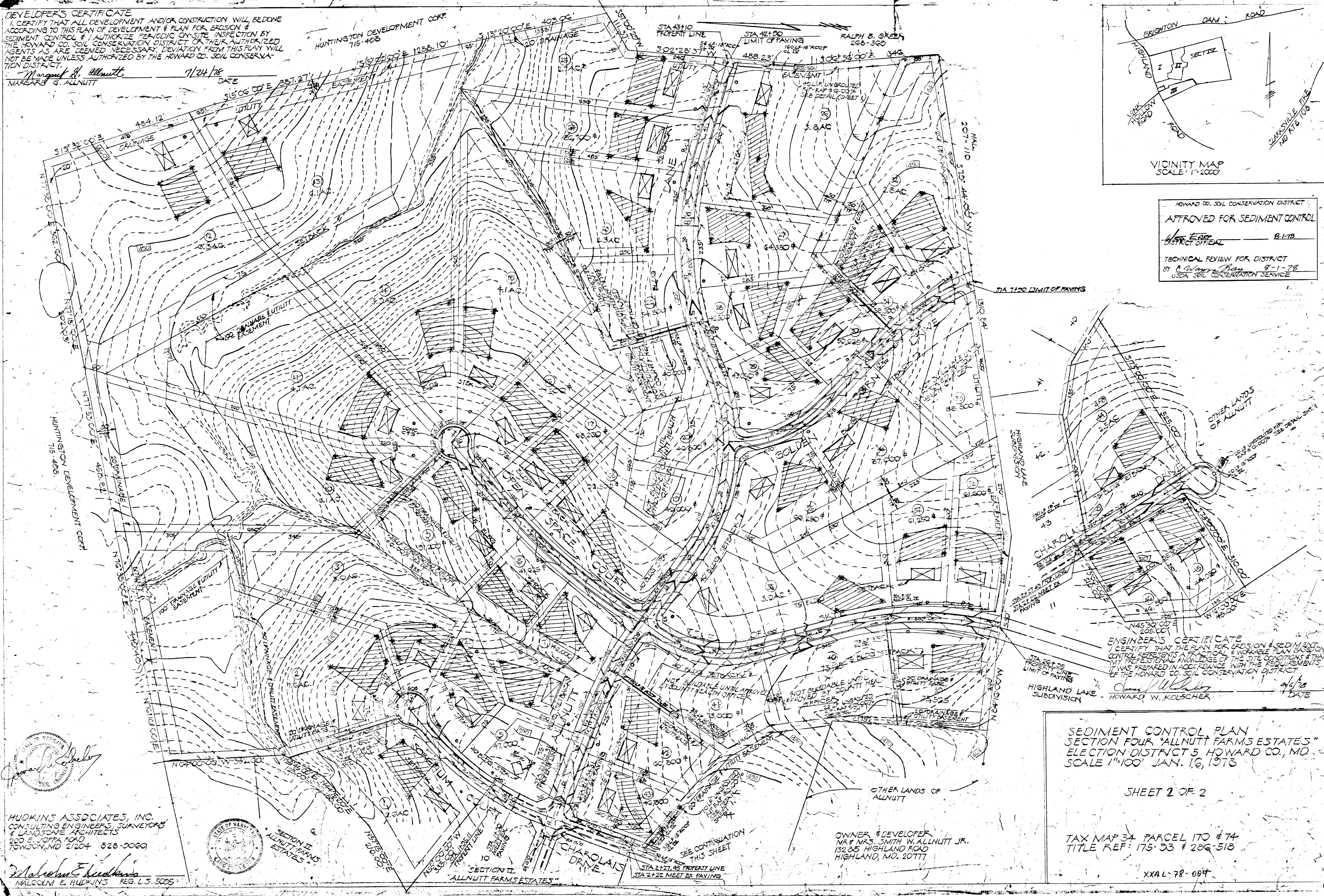


DEVELOPER'S CERTIFICATE  
 I, CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE  
 ACCORDING TO THIS PLAN OF DEVELOPMENT & PLAN FOR EROSION &  
 SEDIMENT CONTROL & I AUTHORIZE PERIODIC ON-SITE INSPECTION BY  
 THE HOWARD CO. SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED  
 AGENTS AS ARE DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL  
 NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD CO. SOIL CONSERVATION  
 DISTRICT.  
 Margaret S. Allnutt 7/24/78 DATE  
 MARGARET S. ALLNUTT

HUNTINGTON DEVELOPMENT CORP.  
 715-406



HOWARD CO. SOIL CONSERVATION DISTRICT  
 APPROVED FOR SEDIMENT CONTROL  
 DISTRICT OFFICIAL  
 TECHNICAL REVIEW FOR DISTRICT  
 BY C. Wayne Bay 8-1-78  
 USCA SOIL CONSERVATION SERVICE



HUDKINS ASSOCIATES, INC.  
 CONSULTING ENGINEERS, SURVEYORS  
 & LANDSCAPE ARCHITECTS  
 200 E. TOPPA ROAD  
 POWERS, MD 21204 828-3060

Malcolm E. Hudkins  
 MALCOLM E. HUDKINS REG. L.S. 5005



SECTION II  
 ALLNUTT FARMS  
 ESTATES

SECTION II  
 "ALLNUTT FARMS ESTATES"  
 CHAROLAIS DRIVE

OWNER & DEVELOPER  
 MR & MRS SMITH W. ALLNUTT JR.  
 132-85 HIGHLAND ROAD  
 HIGHLAND, MD. 20777

ENGINEER'S CERTIFICATE  
 I CERTIFY THAT THE PLAN FOR EROSION & SEDIMENT  
 CONTROL REPRESENTS A PRACTICAL & WORKABLE PLAN BASED  
 ON MY PROFESSIONAL KNOWLEDGE OF THE SITE CONDITIONS & THAT  
 IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS  
 OF THE HOWARD CO. SOIL CONSERVATION DISTRICT.  
 Howard W. Kolscher 4/6/78 DATE  
 HOWARD W. KOLSCHER

SEDIMENT CONTROL PLAN  
 SECTION FOUR "ALLNUTT FARMS ESTATES"  
 ELECTION DISTRICT 5 HOWARD CO., MD.  
 SCALE 1"=100' JAN. 16, 1978

SHEET 2 OF 2

TAX MAP 34 PARCEL 170 #74  
 TITLE REF: 175-93 # 286-518

XXAL-78-004