

APPROVED: For Storm Drainage Systems & Public Roads, the Co Dept of Public Works.

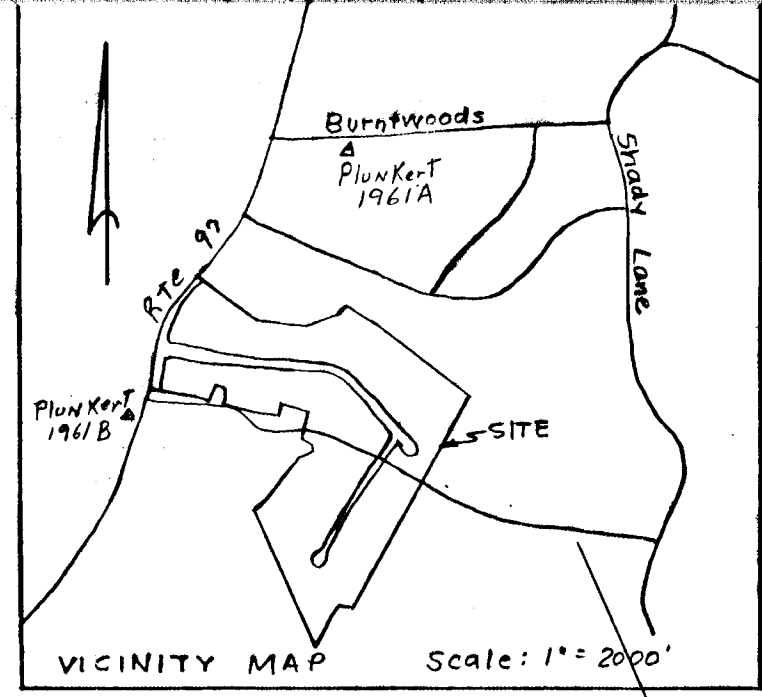
APPROVED: Howard County, Office of Planning and Zoning.

*James C. Hudgins*  
 Chet, Bureau of Engineering  
 10/18/82  
 Date

*Francis Denis Light*  
 P.E., Lic. of Land Development  
 9/23/82  
 Date

ORIGINAL FIELD AS-BUILT SIGNED & SEALED BY  
 JAMES C. HUDGINS P.L.S. #92 AND  
 FRANCIS DENIS LIGHT P.E. #7617

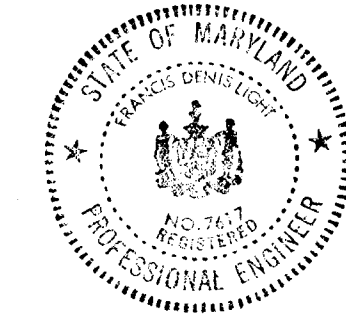
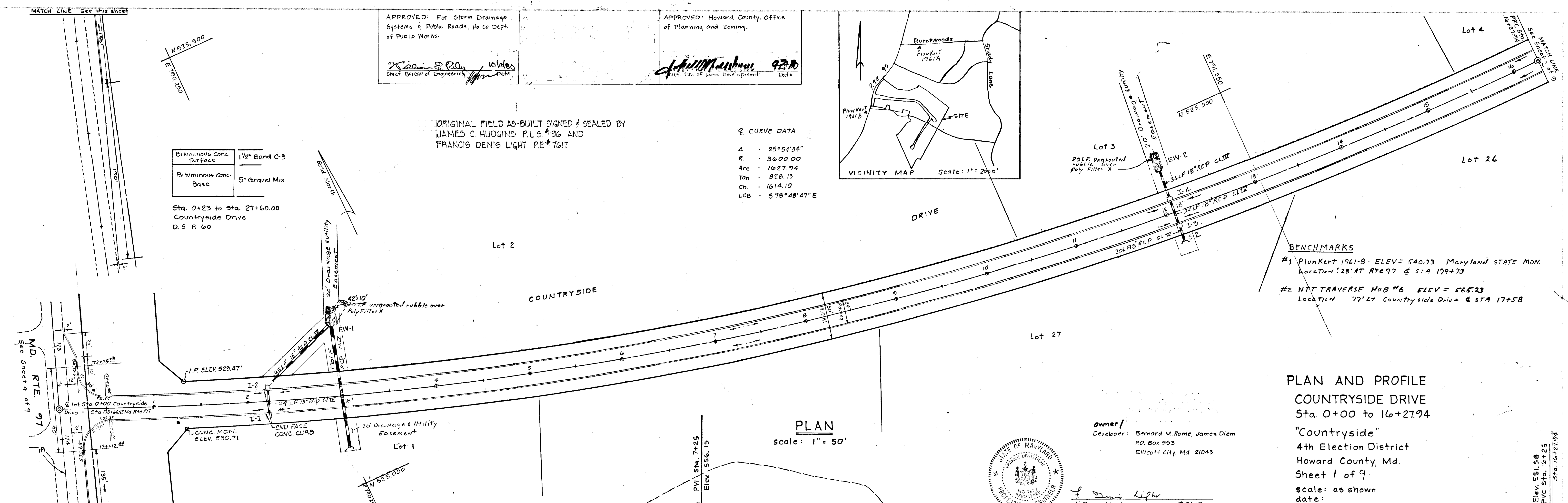
☉ CURVE DATA  
 Δ - 25°54'34"  
 R - 3600.00  
 Arc - 1627.94  
 Tan - 828.13  
 Ch - 1614.10  
 LCB - 578°48'47"E



Bituminous Conc. Surface	1/2" Band C-3
Bituminous Conc. Base	5" Gravel Mix

Sta. 0+23 to Sta. 27+60.00  
 Countryside Drive  
 D. S. P. 60

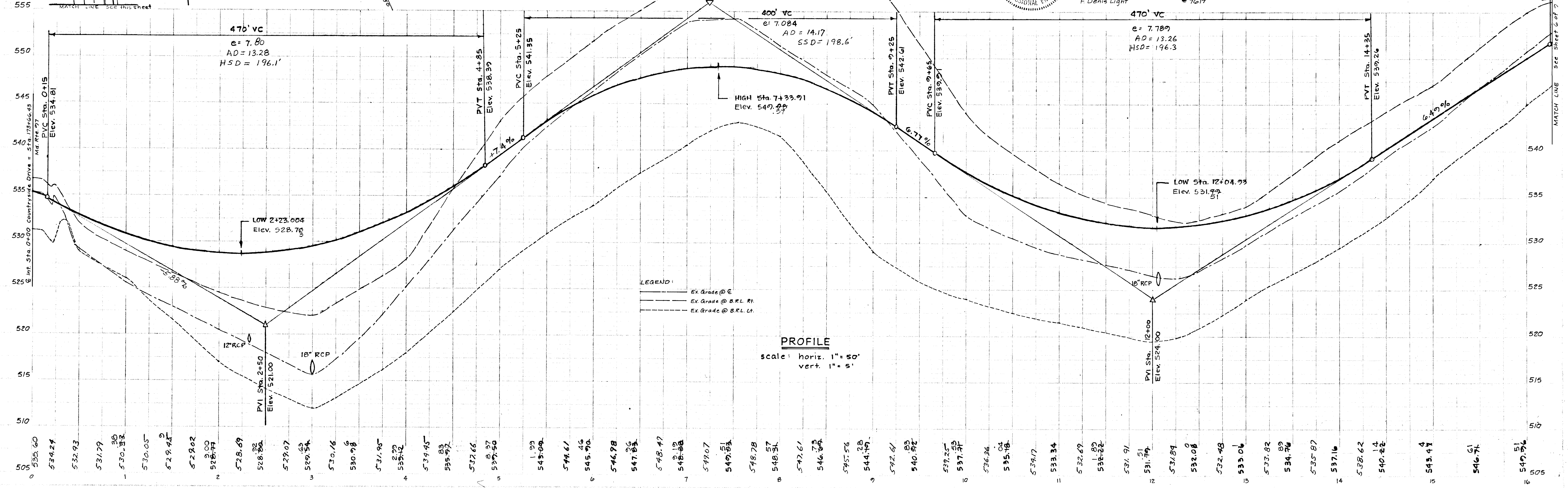
**BENCHMARKS**  
 #1 Plunkert 1961-B ELEV = 540.73 Maryland STATE MON.  
 Location: 28' AT Rte 97 @ STA 179+73  
 #2 N.T. TRAVERSE HUB #6 ELEV = 565.23  
 Location: 77' LT Countryside Drive @ STA 17+58



owner/  
 Developer: Bernard M. Rome, James Diem  
 P.O. Box 553  
 Ellicott City, Md. 21043

*Francis Denis Light*  
 F. Denis Light  
 #7617

**PLAN AND PROFILE**  
**COUNTRYSIDE DRIVE**  
 Sta. 0+00 to 16+27.94  
 "Countryside"  
 4th Election District  
 Howard County, Md.  
 Sheet 1 of 9  
 scale: as shown  
 date:



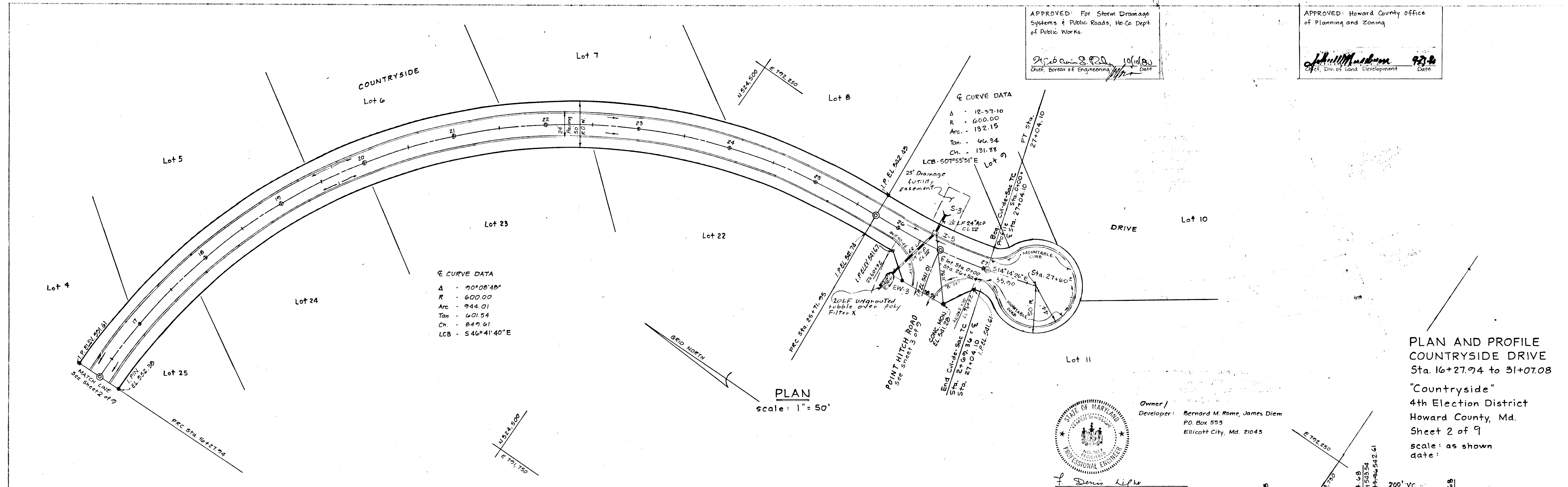
853

AS-BUILT DEC-82

F-80-108

APPROVED: For Storm Drainage Systems & Public Roads, Ho. Co. Dept. of Public Works.  
*Robert S. P. [Signature]* 10/18/83  
 Chief, Bureau of Engineering Date

APPROVED: Howard County Office of Planning and Zoning  
*John M. [Signature]* 9/23/83  
 Chief, Div. of Land Development Date

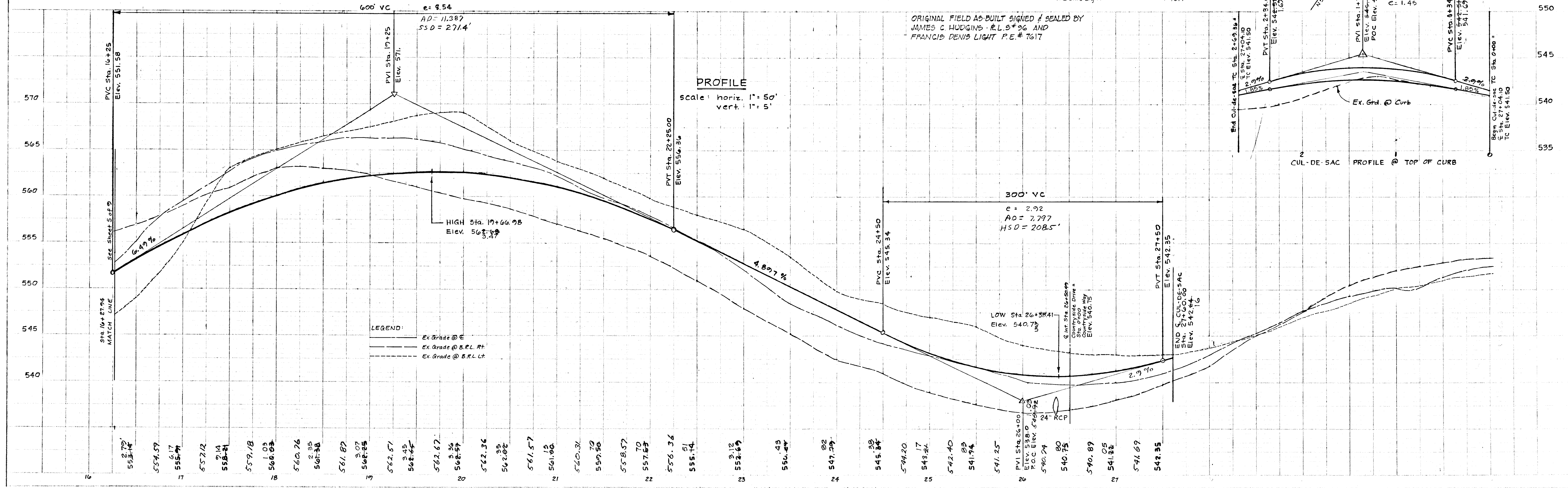


PLAN  
 scale: 1" = 50'

PLAN AND PROFILE  
 COUNTRYSIDE DRIVE  
 Sta. 16+27.94 to 31+07.08  
 "Countryside"  
 4th Election District  
 Howard County, Md.  
 Sheet 2 of 9  
 scale: as shown  
 date:



Owner / Developer: Bernard M. Rome, James Diem  
 P.O. Box 593  
 Ellicott City, Md. 21043

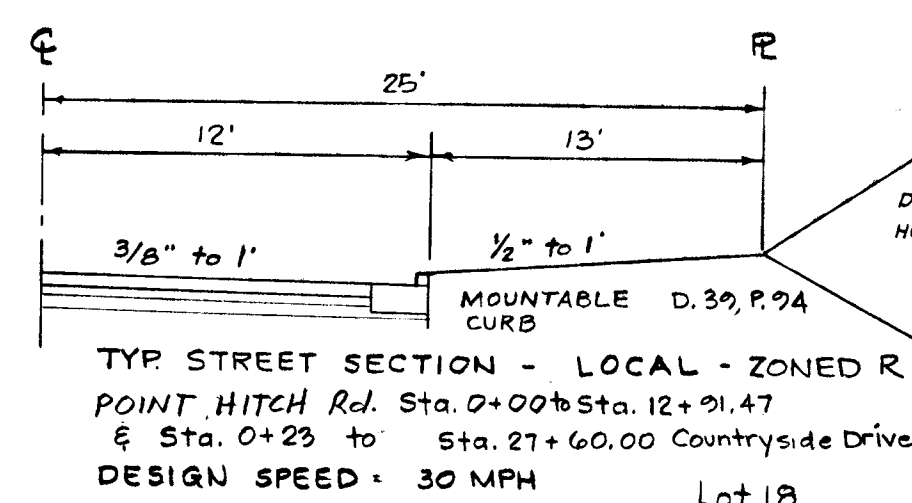


PROFILE  
 scale: horiz. 1" = 50'  
 vert. 1" = 5'

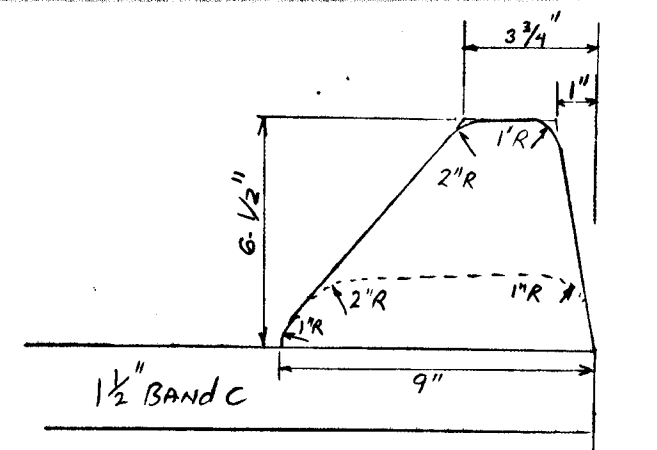
ORIGINAL FIELD AS-BUILT SIGNED & SEALED BY  
 JAMES C. HUDGINS - R.L.S.+9% AND  
 FRANCIS DENIS LIGHT P.E. # 7617

CUL-DE-SAC PROFILE @ TOP OF CURB

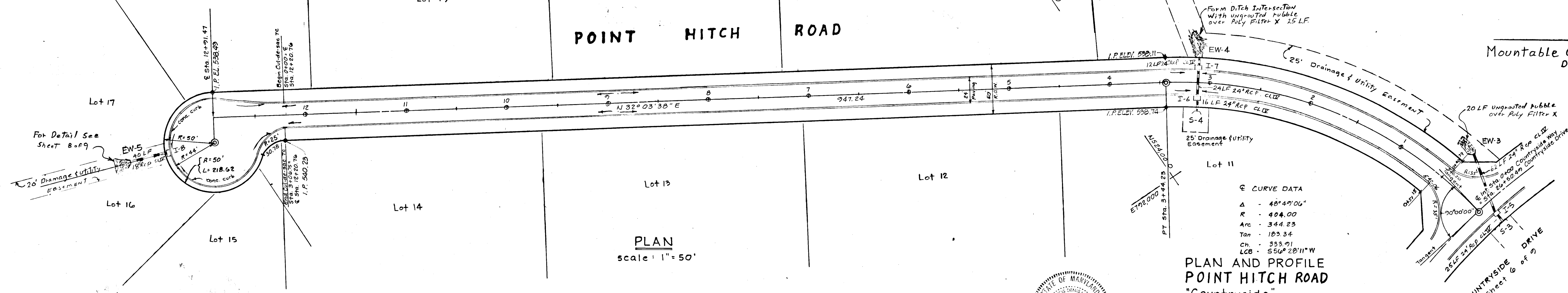




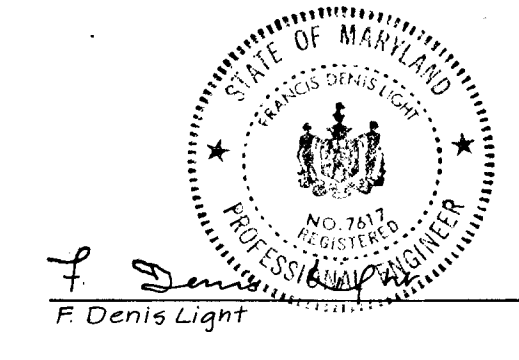
Bituminous Conc. Surface	1/2" Band C-3
Bituminous Concrete Base	5" Gravel Mix



Mountable Curb  
Drawing D-39  
Page 94



PLAN AND PROFILE  
POINT HITCH ROAD  
"Countryside"  
4th Election District  
Howard County, Md.  
Sheet 3 of 9  
scale: as shown  
date:



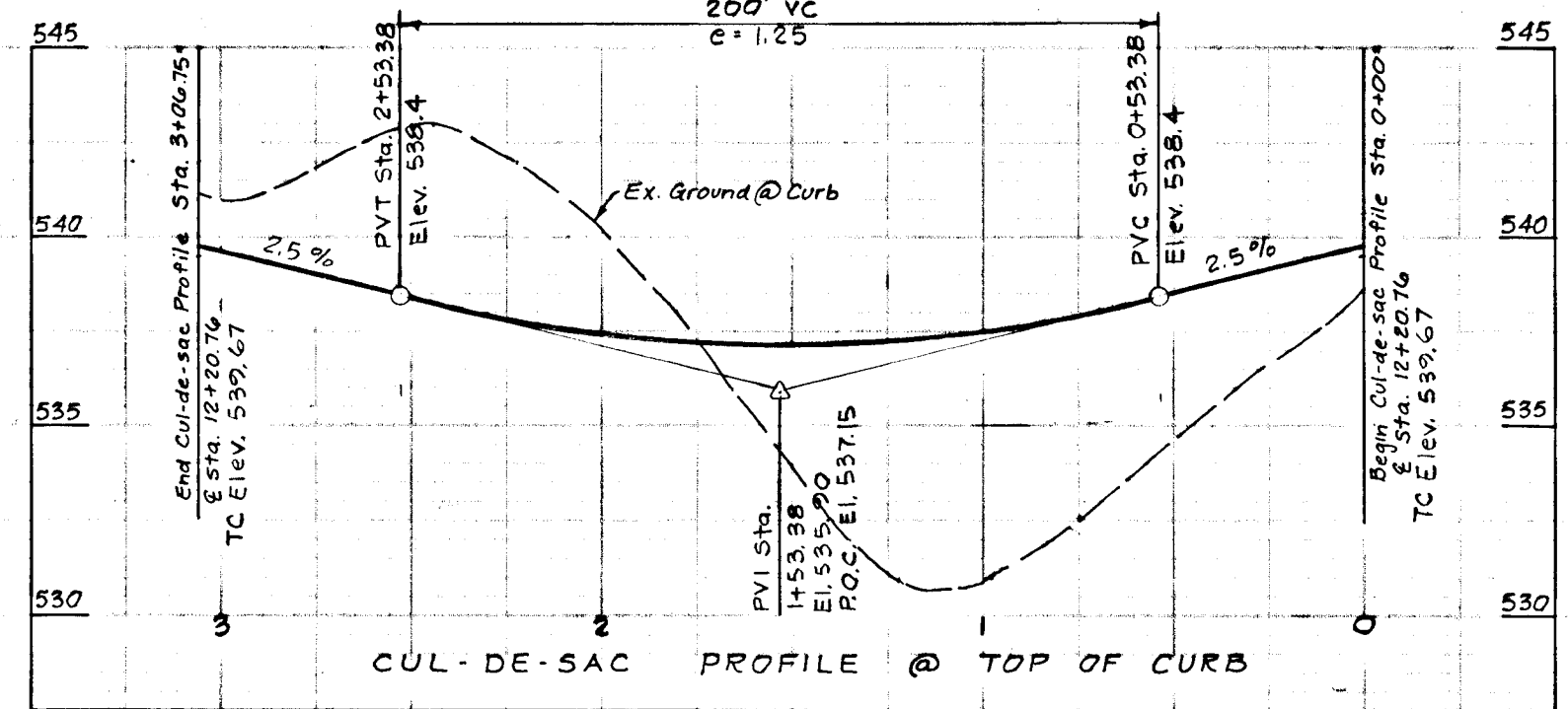
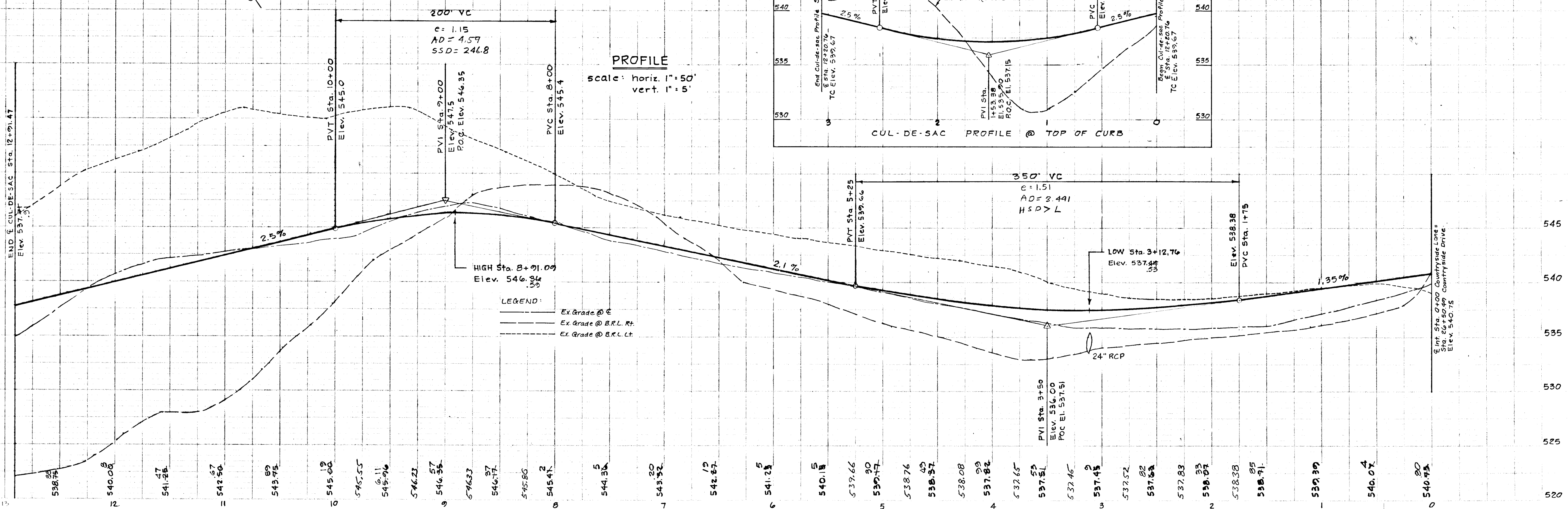
Owner & Developer:  
Bernard M. Rome  
James Diem  
P.O. Box 553  
Ellicott City, Md.  
21043

APPROVED: For Storm Drainage Systems & Public Roads, Ho. Co. Dept. of Public Works.  
Date: 10/16/82  
Chief, Bureau of Engineering

APPROVED: Howard County Office of Planning and Zoning.  
Date: 9/23/82  
Chief, Div. of Land Development

ORIGINAL FIELD AS BUILT SIGNED & SEALED BY  
JAMES C. HODGINS P.E. #36 AND  
FRANCIS DENIS LIGHT P.E. #7617

PROFILE  
scale: horiz. 1"=50'  
vert. 1"=5'



AS BUILT - DEC - 1982

F-86-108

853

PAVING SECTION RT 97  
ALL SIDING

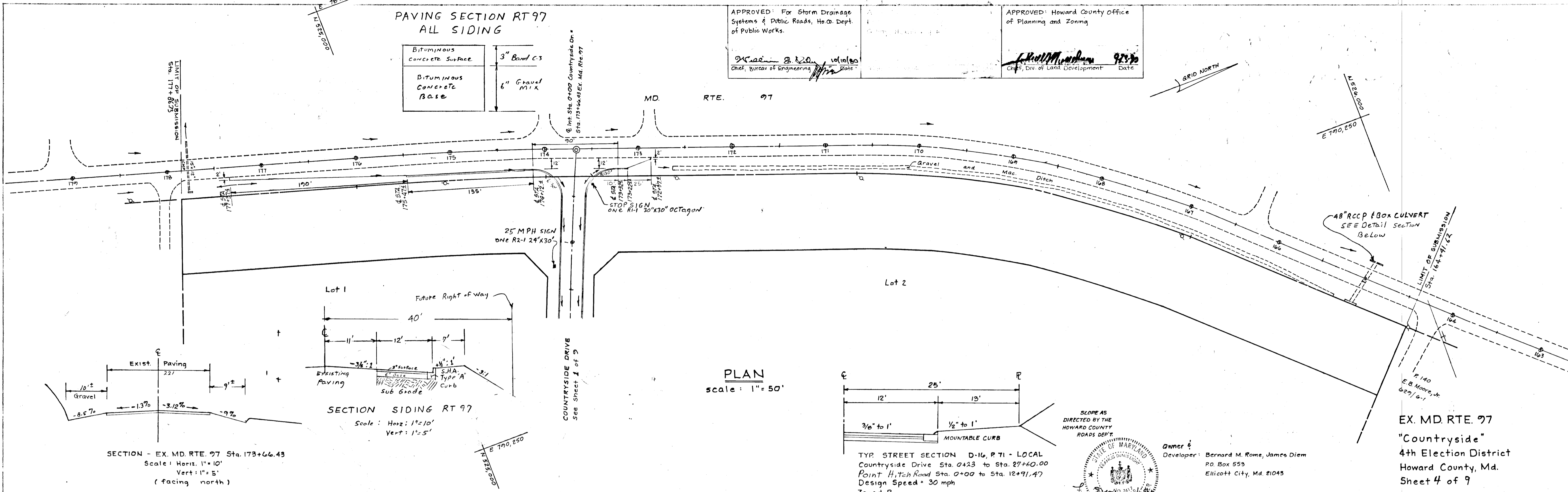
BITUMINOUS CONCRETE SURFACE	3" Band C-3
BITUMINOUS CONCRETE BASE	6" GRAVEL MIX

APPROVED: For Storm Drainage  
Systems & Public Roads, Ho. Co. Dept.  
of Public Works.

*W. J. ...*  
Chief, Bureau of Engineering

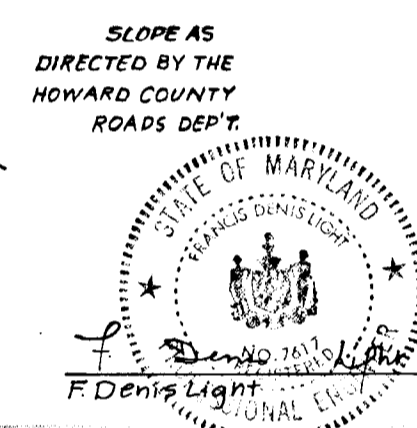
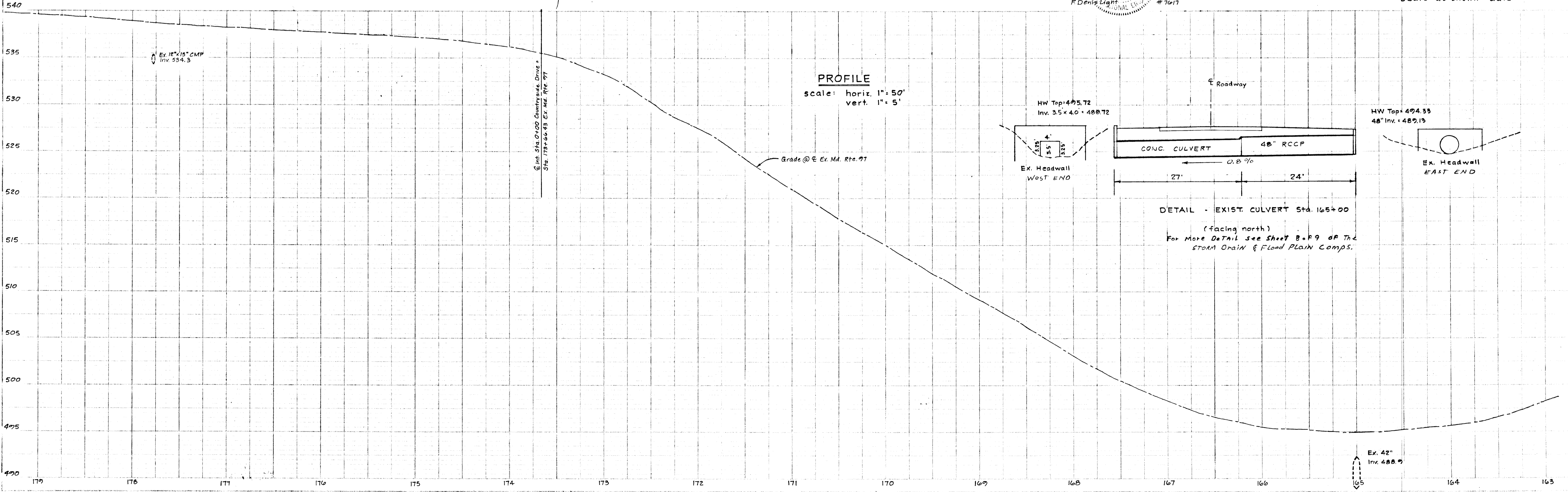
APPROVED: Howard County Office  
of Planning and Zoning

*...*  
Chief, Div. of Land Development



PLAN  
scale: 1" = 50'

PROFILE  
scale: horiz. 1" = 50'  
vert. 1" = 5'



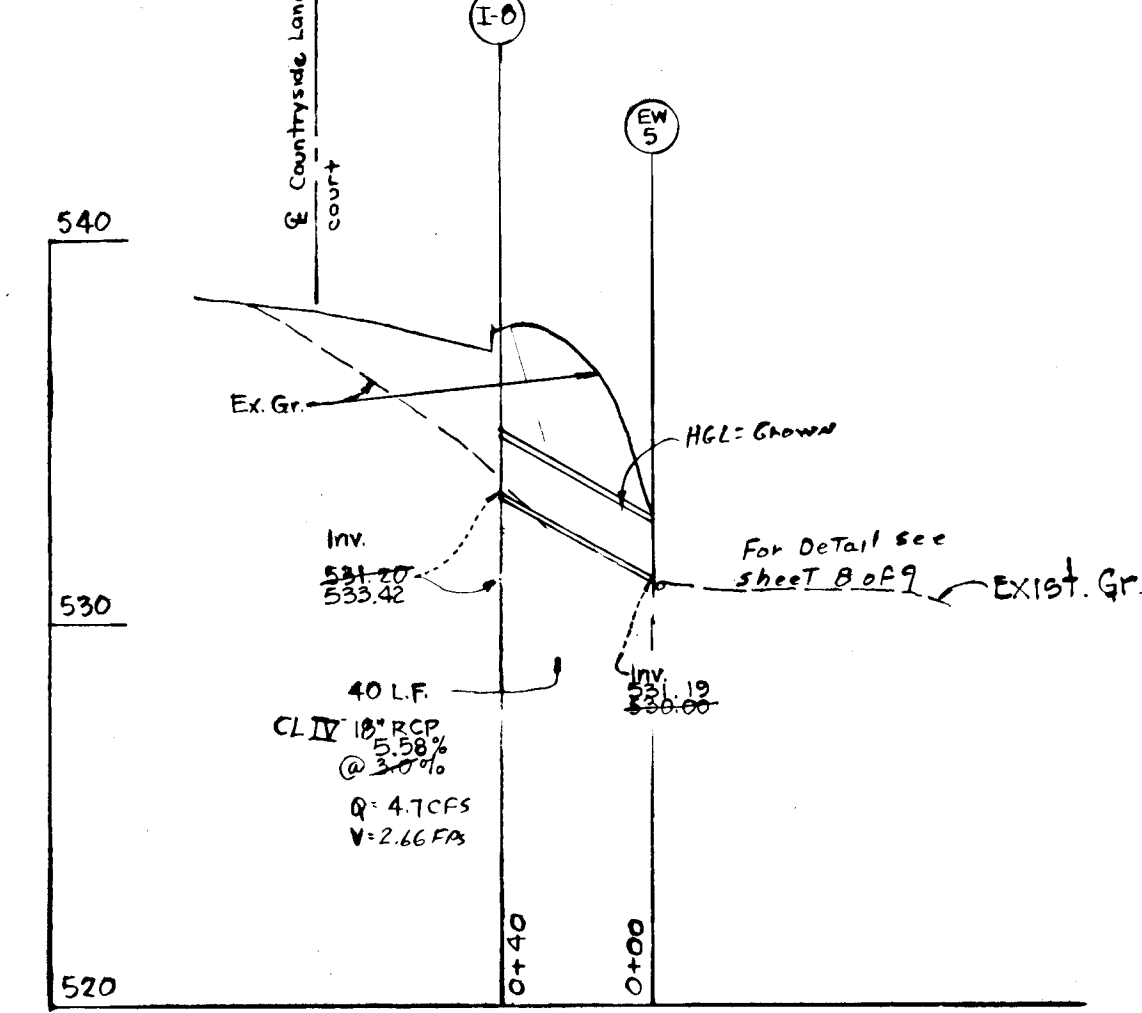
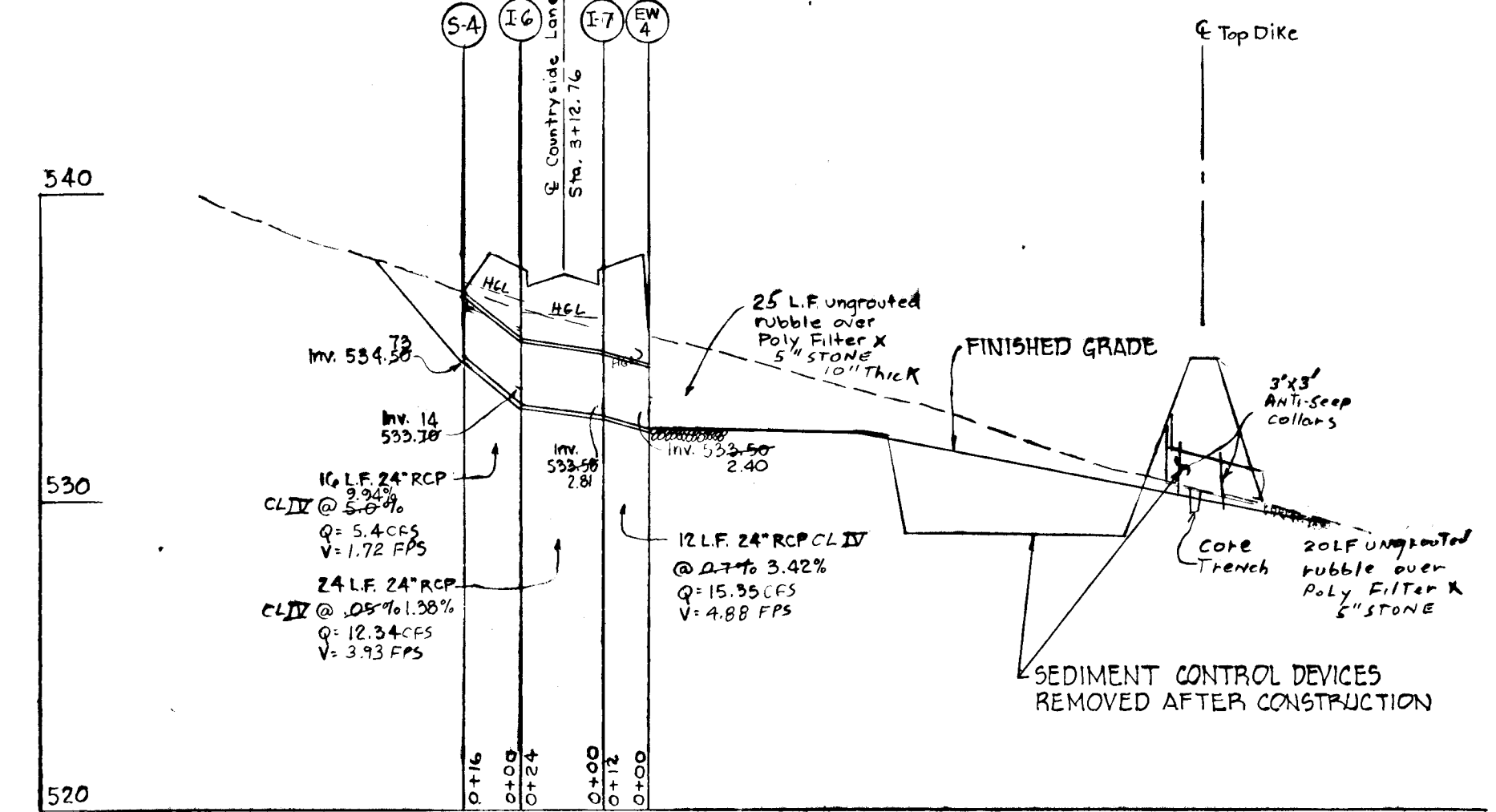
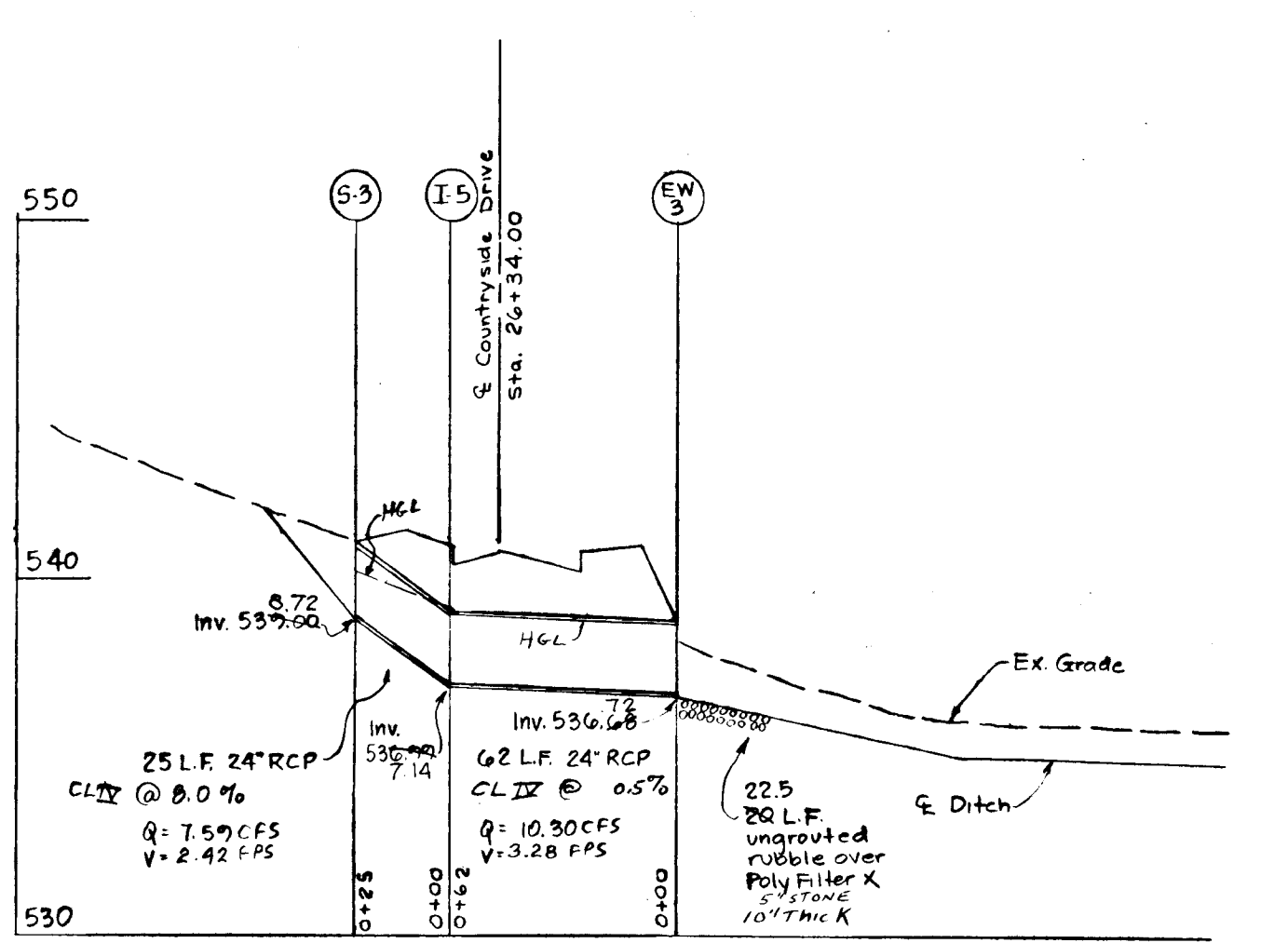
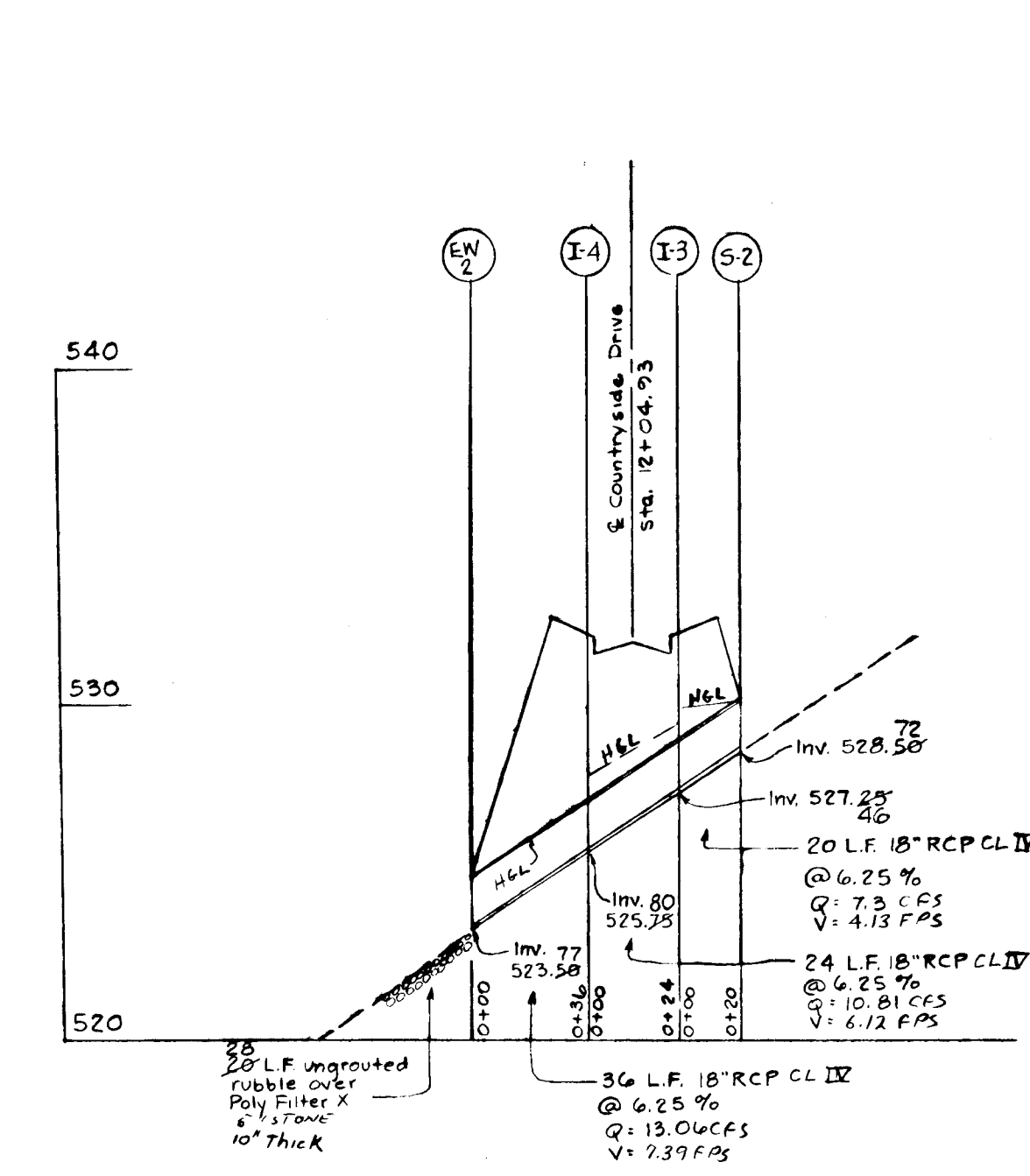
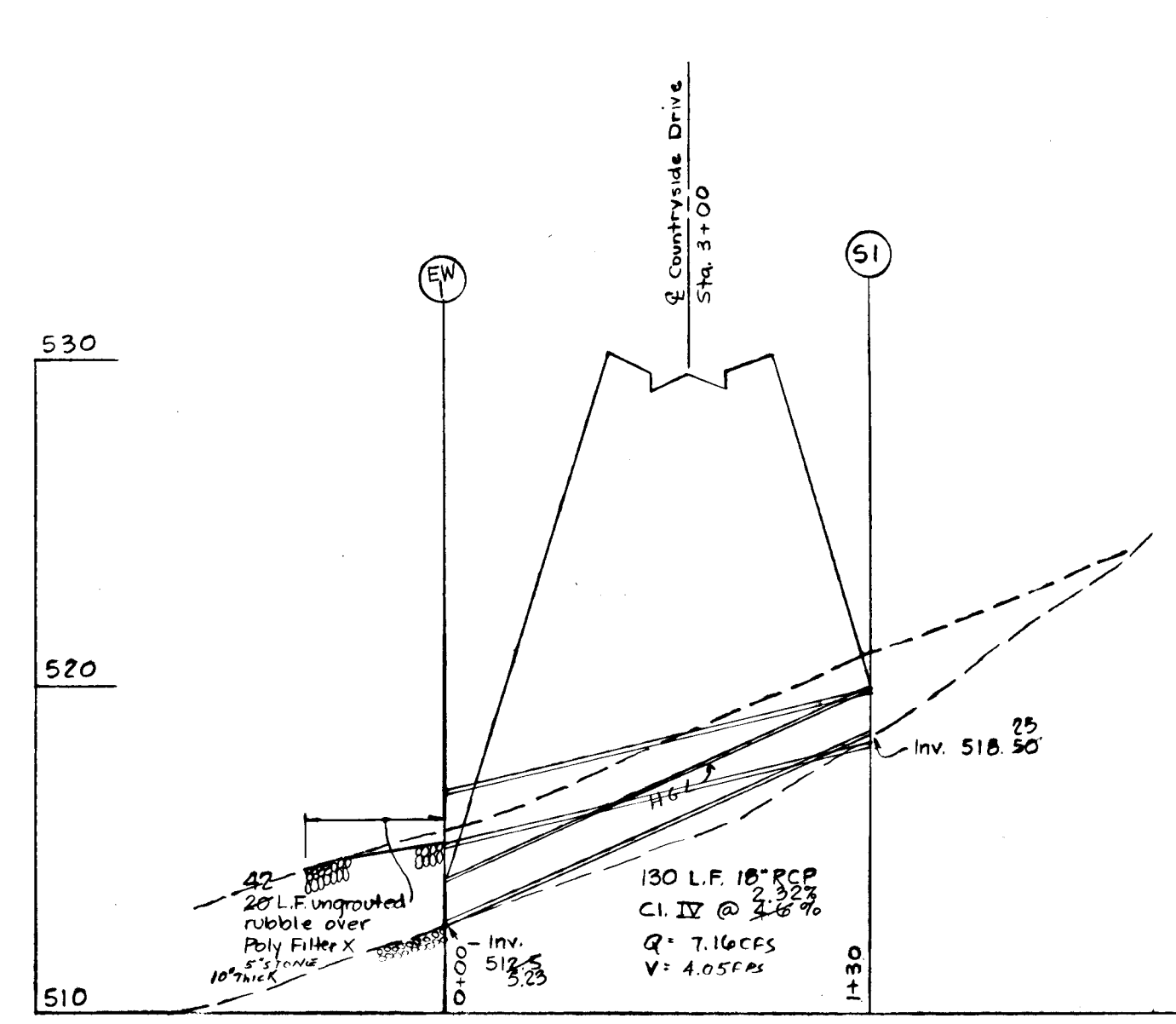
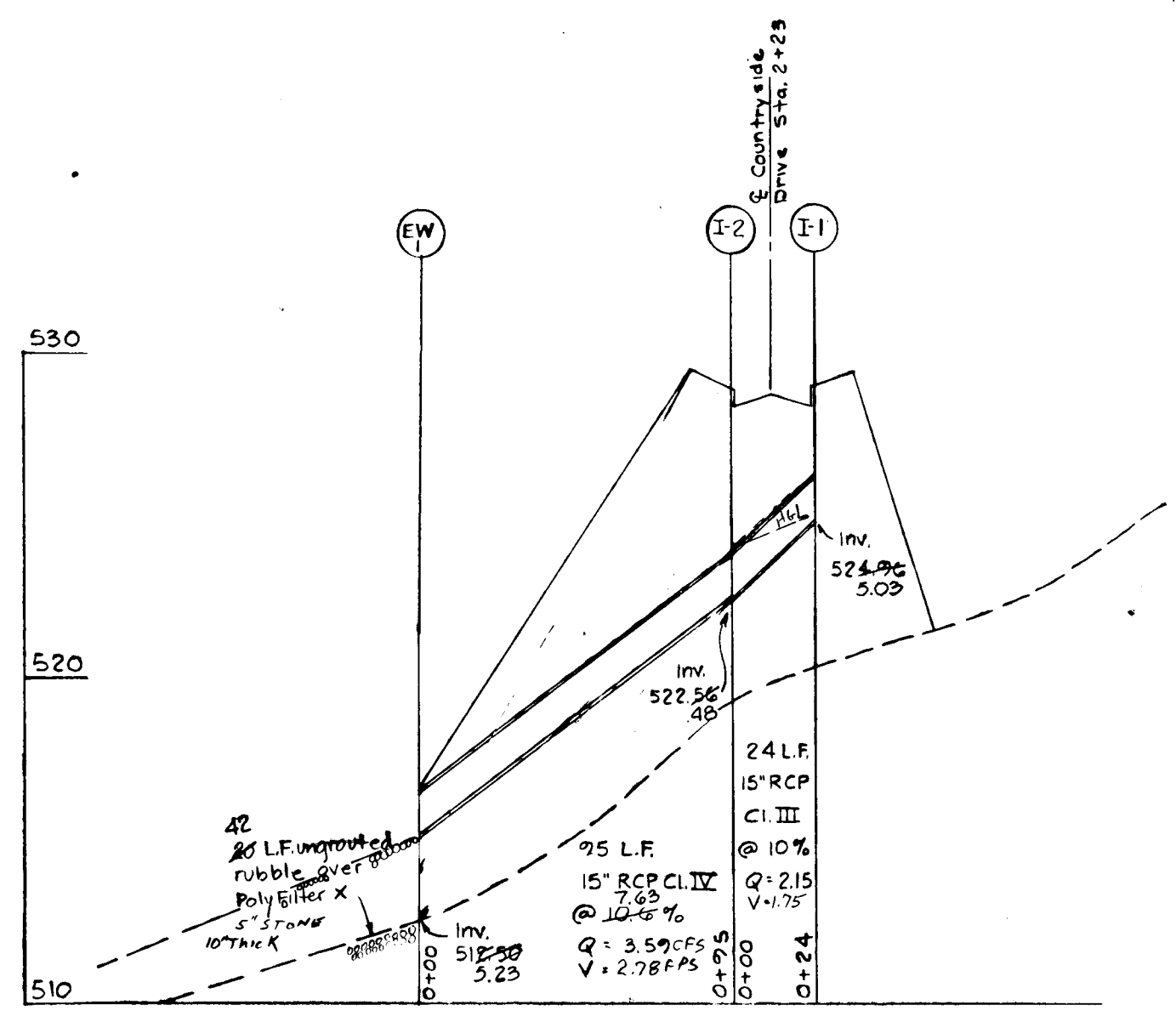
Owner & Developer: Bernard M. Rome, James Diem  
P.O. Box 559  
Ellicott City, Md. 21043

EX. MD. RTE. 97  
"Countryside"  
4th Election District  
Howard County, Md.  
Sheet 4 of 9  
scale: as shown date:



STORM DRAINAGE STRUCTURE SCHEDULE

No.	Type	Location	Inv. In	Inv. Out	Top Elev.	Remarks
I-1	Ho. Co. Sta. A-5 Depressed	2+23 12' LT Sheet 149	522.56	522.56	528.46 528.94	Ho. Co. Sta. 64A P-119A
I-2	" " " "	2+23 12' LT " " "	—	524.96	528.77	" " " " " "
I-3	" " " " A-10	12+04 <sup>93</sup> 12' LT " " "	525.75	525.75	531.56	" " " " " "
I-4	" " " " " "	12+04 <sup>93</sup> 12' LT " " "	527.25	527.25	531.60	" " " " " "
I-5	" " " " " "	26+38 <sup>91</sup> 12' LT Sheet 209	536.99	536.99	540.49 75	" " " " " "
I-6	" " " " A-10 Depressed	3+12 <sup>76</sup> 12' LT Sheet 209	533.58	533.58	537.20 46	" " " " " "
I-7	" " " " A-10	3+12 <sup>76</sup> 12' LT " " "	533.70	533.70	537.34	" " " " " "
I-8	" " " " " "	END OF COURT	—	531.20	535.90 536.73	" " " " " "
EW-1	Ho. Co. Sta. B Endwall	2+9 <sup>70</sup> 74' LT Sheet 149	512.50	512.50	—	Ho. Co. Sta. 64B P-103
EW-2	" " " " " "	12+04 <sup>93</sup> 48' LT " " "	523.50	523.50	—	Ho. Co. Sta. D-52 P-102
EW-3	" " " " " "	26+17 46' LT Sheet 209	536.68	536.68	—	" " " " " "
EW-4	" " " " " "	3+12 <sup>76</sup> 25' LT Sheet 209	533.50	533.50	—	" " " " " "
EW-5	" " " " " "	Centered on R Lots 16 & 17	—	530.00	—	" " " " " "
S-1	Ho. Co. Sta. C Endwall	3+03 <sup>70</sup> 56' LT Sheet 149	518.50	—	—	" " " " " "
S-2	" " " " " "	12+04 <sup>93</sup> 32' LT " " "	528.50	—	—	" " " " " "
S-3	" " " " " "	26+40 39' LT Sheet 209	539.00	—	—	" " " " " "
S-4	" " " " " "	3+12 <sup>76</sup> 29' LT Sheet 209	534.50	—	—	" " " " " "



ORIGINAL FIELD AS-BUILT SIGNED & SEALED BY  
 JAMES C. HUDGINS P.E. #96 AND  
 FRANCIS DENIS LIGHT P.E. #7617

STORM DRAIN PROFILES

"COUNTRYSIDE"

SHEET 5 OF 9

4th Election District, Howard Co., Md.  
 Scale: Horiz. 1"=50' Parcel: 63  
 Date: Vert. 1"=5' Deed Ref: 934/611

Prepared by: N.T.T. Assoc.  
 Clark Bldg. Suite 307  
 Columbia, Md. 21044

APPROVED: For Storm Drainage Systems and Public Roads, Ho. Co. Dept. of Public Works.  
 [Signature] Chief, Bureau of Engineering

APPROVED: Howard County Office of Planning and Zoning.  
 [Signature] Chief, Div. of Land Development

[Signature] Francis Denis Light  
 F Denis Light #7617

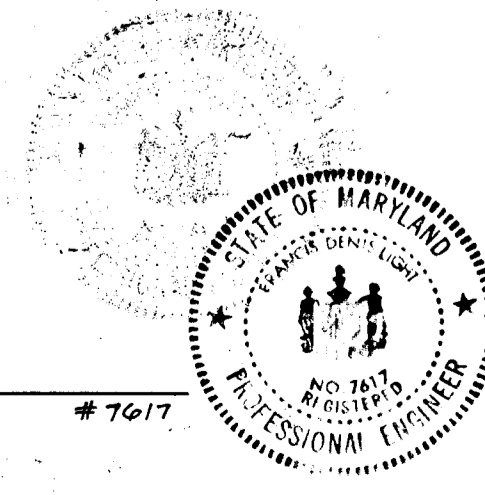


OWNER:  
 DEVELOPER:  
 Bernard M. Rome, James Diem  
 P.O. Box 555  
 Ellicott City, Md. 21043

OFF-SITE DRAINAGE AREA MAP  
 "COUNTRYSIDE"  
 LOTS 1 thru 27  
 SHEET 6 OF 9

4th Election District, Howard Co., Md.  
 Scale: 1" = 200' Parcel: 65  
 Date: 3-1-77 Deed Ref: 234/611

Prepared by: N.T.T. Assoc.  
 Clark Bldg, Suite 307  
 Columbia, Md. 21044

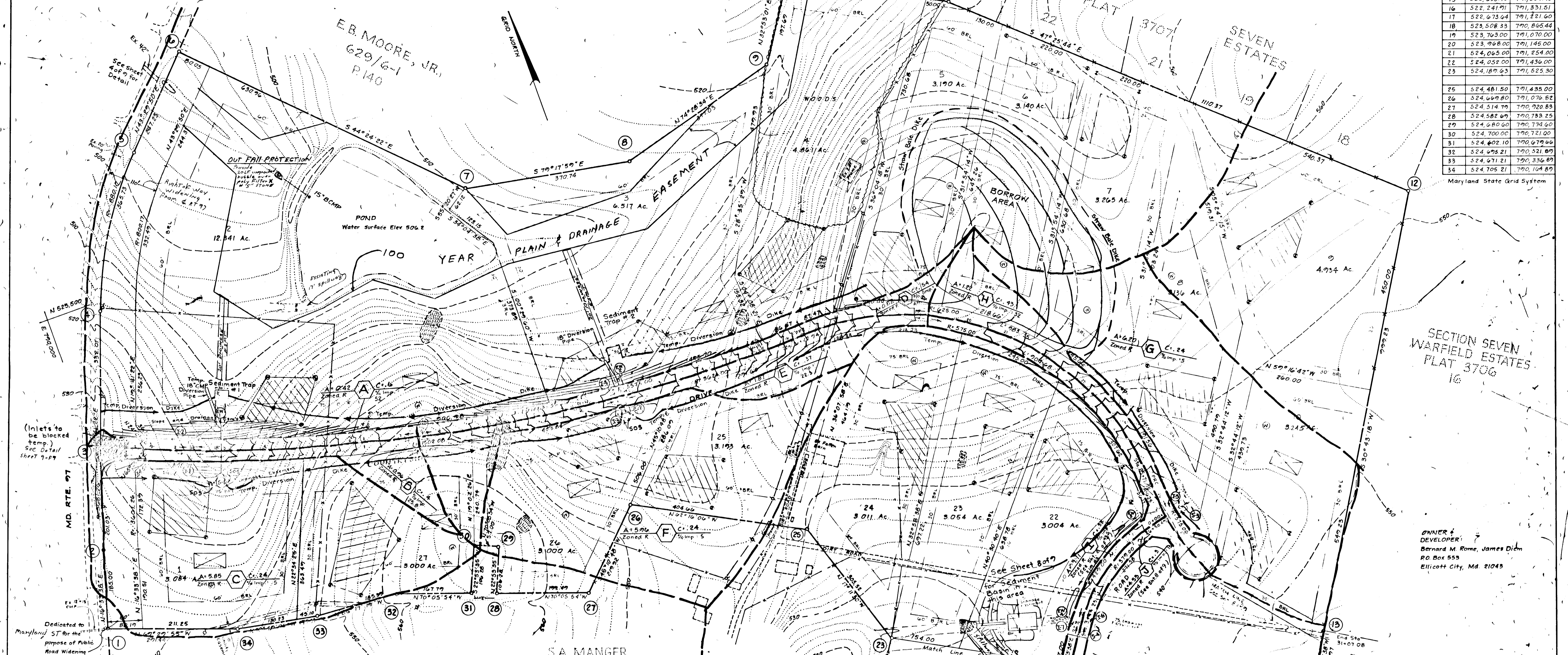
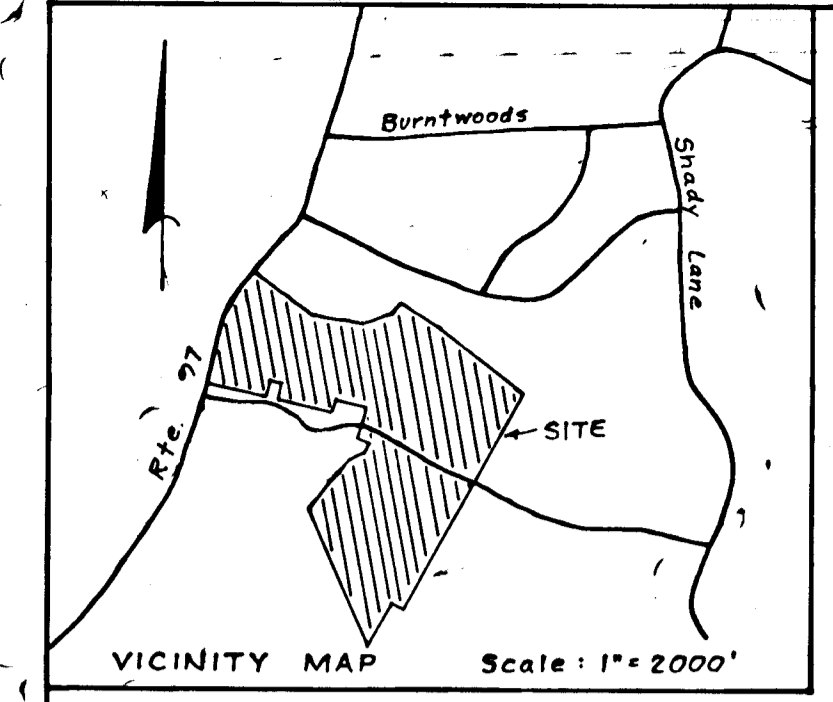


APPROVED: For Storm Drainage Systems  
 and Public Roads, Ho. Co. Dept. of Public  
 Works.  
 F. Denis Light  
 Chief, Bureau of Engineering  
 Date

APPROVED: Howard County Office  
 of Planning and Zoning  
 F. Denis Light  
 Chief, Bureau of Land Development  
 Date



COORDINATE TABLE		
No.	North	East
1	524,807.28	799,871.91
2	524,775.01	799,941.78
3	525,166.04	799,004.31
4	525,478.64	799,116.17
5	525,787.93	799,306.40
6	525,967.28	799,476.58
7	525,459.35	799,974.10
8	525,390.49	799,338.40
9	525,491.40	799,701.67
10	525,657.42	799,809.01
11	525,481.97	799,131.19
12	524,730.80	799,948.91
13	523,871.80	799,438.43
14	522,623.48	799,656.56
15	522,658.40	799,583.43
16	522,241.91	799,331.51
17	522,673.64	799,221.60
18	523,508.33	799,865.44
19	523,763.00	799,070.00
20	523,968.00	799,145.00
21	524,065.00	799,254.00
22	524,052.00	799,436.00
23	524,189.63	799,525.30
25	524,481.50	799,435.00
26	524,669.80	799,076.82
27	524,514.79	799,920.83
28	524,582.69	799,733.25
29	524,680.60	799,774.60
30	524,700.00	799,721.00
31	524,402.10	799,679.64
32	524,675.21	799,521.87
33	524,671.21	799,336.89
34	524,705.21	799,104.89



**LEGEND**

- Proposed House
- Proposed 10,000 S.F. Min. Septic Reservation
- Percolation Test Hole
- Proposed Well
- 540 Existing Contours
- Proposed Contours
- Limit of Submission

APPROVED: For Storm Drainage Systems & Public Roads, Ho Co. Dept. of Public Works.

**SEDIMENT TRAP #1**  
 Drainage Area = 1.75 Ac.  
 Disturbed Area = 1.75 Ac.  
 Storage Vol. Req'd. = 118 cy  
 Storage Vol. Prov. = 133 cy  
 Bottom Area = 600 Sq. Ft.  
 (20' x 30' or equiv.)  
 Crest Length = 12'

**ELEVATIONS**  
 Stone Crest = 512.0'  
 Bottom = 510.0'  
 Clean out = 511.0'

APPROVED: Howard County Office of Planning and Zoning.

**SITE ANALYSIS**

- Zoning - R
- No. of Proposed Lots - 27
- Tabulation -  
 Lots - 100,878 Ac.  
 R.O.W. - 7.20 Ac.  
 Total - 108,078 Ac.
- Tax Map - 21
- Soils Map - 29
- Private Water and Private Sewerage Systems to be utilized.
- Topography shown is from actual field survey Aug 1978, by N.T.T. Assoc.
- Design speed for Countryside Drive - 30 mph
- Design speed for Countryside Way - 30 mph
- Open Space required - none
- Contour interval - 2 feet

**SEDIMENT TRAP #2**  
 Drainage Area = 3.61 Ac.  
 Disturbed Area = 2.94 Ac.  
 Storage Vol. Req'd. = 200 cy  
 Storage Vol. Prov. = 200 cy  
 Bottom Area = 700 Sq. Ft.  
 (30' x 30' or equiv.)  
 Crest Length = 22'

**ELEVATIONS**  
 Stone Crest = 520.0'  
 Bottom = 518.0'  
 Clean out = 519.0'

**DEVELOPER'S CERTIFICATION**  
 I CERTIFY THAT ALL DEVELOPMENT OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN OF EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

Approved: *James G. Wilson* Date: 8-27-80  
 HOWARD SOIL CONSERVATION DISTRICT

**ENGINEER'S CERTIFICATE**

"I certify that this plan for erosion and sediment control represents a practical and workable 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: *F. Denis Light* Date: 8-27-80  
 F. Denis Light #617 Date

REVIEWED FOR *Howard* S.C.D. and meets technical requirements.

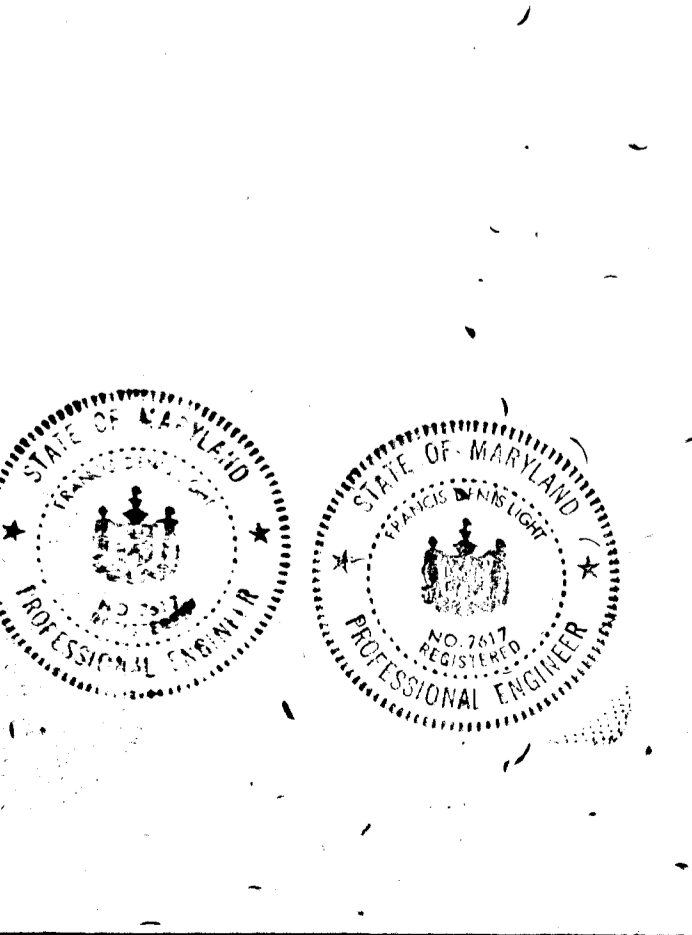
APPROVED: *Williams Thorne* Date: 8-27-80  
 HOWARD SOIL CONSERVATION DISTRICT

**SEDIMENT CONTROL & DRAINAGE AREA MAP "COUNYSIDE"**

LOTS 1 thru 10 and LOTS 22 thru 27  
 SHEET 7 OF 9

4th Election District, Howard Co., Md.  
 Scale: 1" = 100' Parcel: 63  
 Date: 5-1-79 Deed Ref: 934/611

Prepared by: N.T.T. Assoc.  
 Clark Bldg Suite 307  
 Columbia, Md 21044

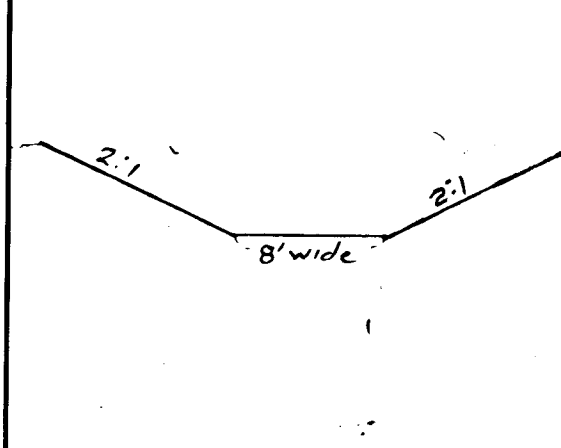


**OWNER & DEVELOPER:**  
 Bernard M. Rome, James Diem  
 P.O. Box 555  
 Ellicott City, Md. 21043

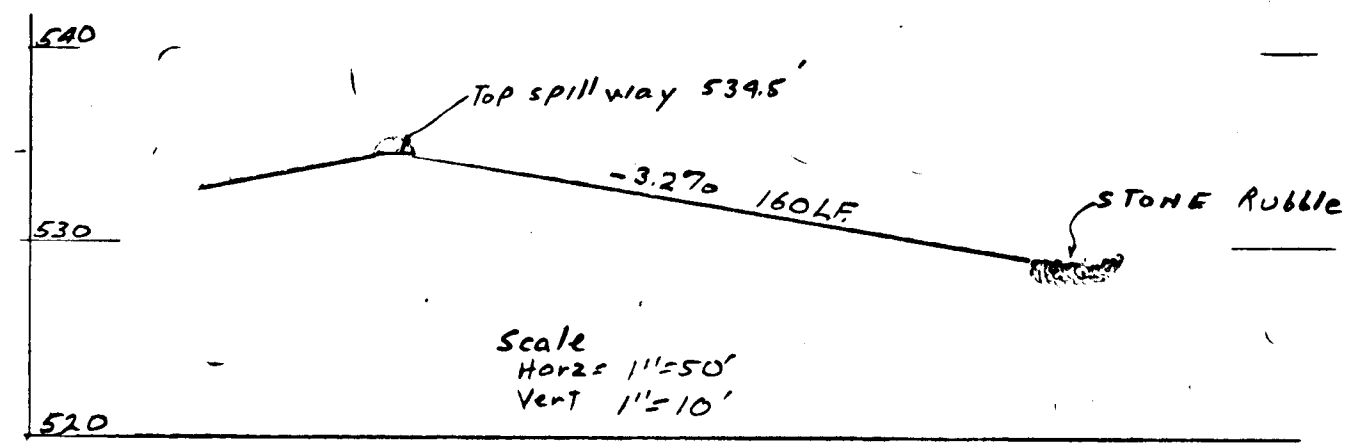
**FB. DEVLIN**  
 521/412  
 P. 7



CROSS SECTION  
EARTH SPILLWAY  
NO SCALE



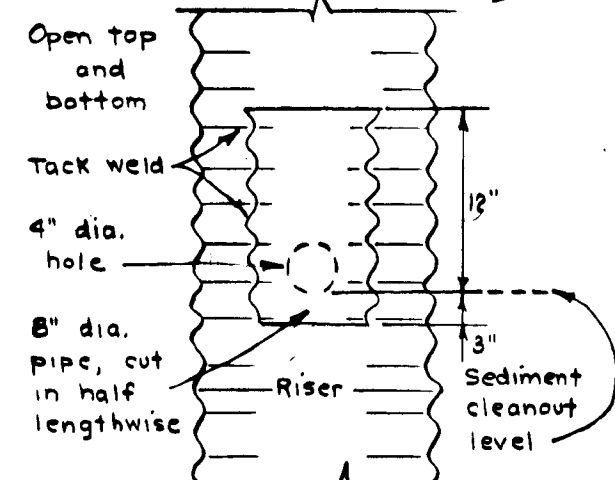
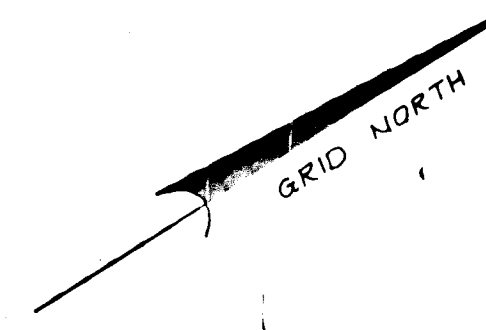
SEDIMENT BASIN SPILLWAY  
PROFILE



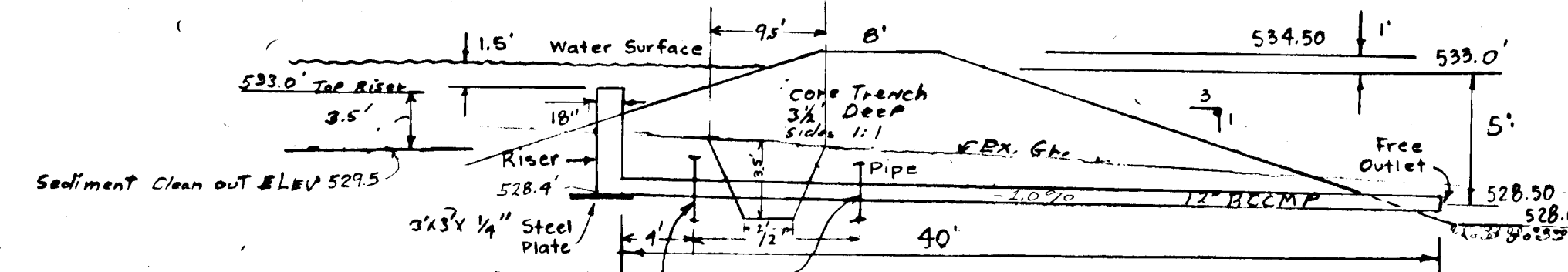
SEDIMENT TRAP #3

Drainage Area = 1.72 Ac.  
Disturbed Area = 1.72 Ac.  
Storage Vol. Req'd. = 116 cy  
Storage Vol. Prov. = 155 cy  
Bottom Area = 600 Sq. Ft.  
(20' x 30' or equiv.)  
Crest Length = 12'

ELEVATIONS  
Stone Crest = 521.0'  
Bottom = 519.0'  
Clean out = 520.0'

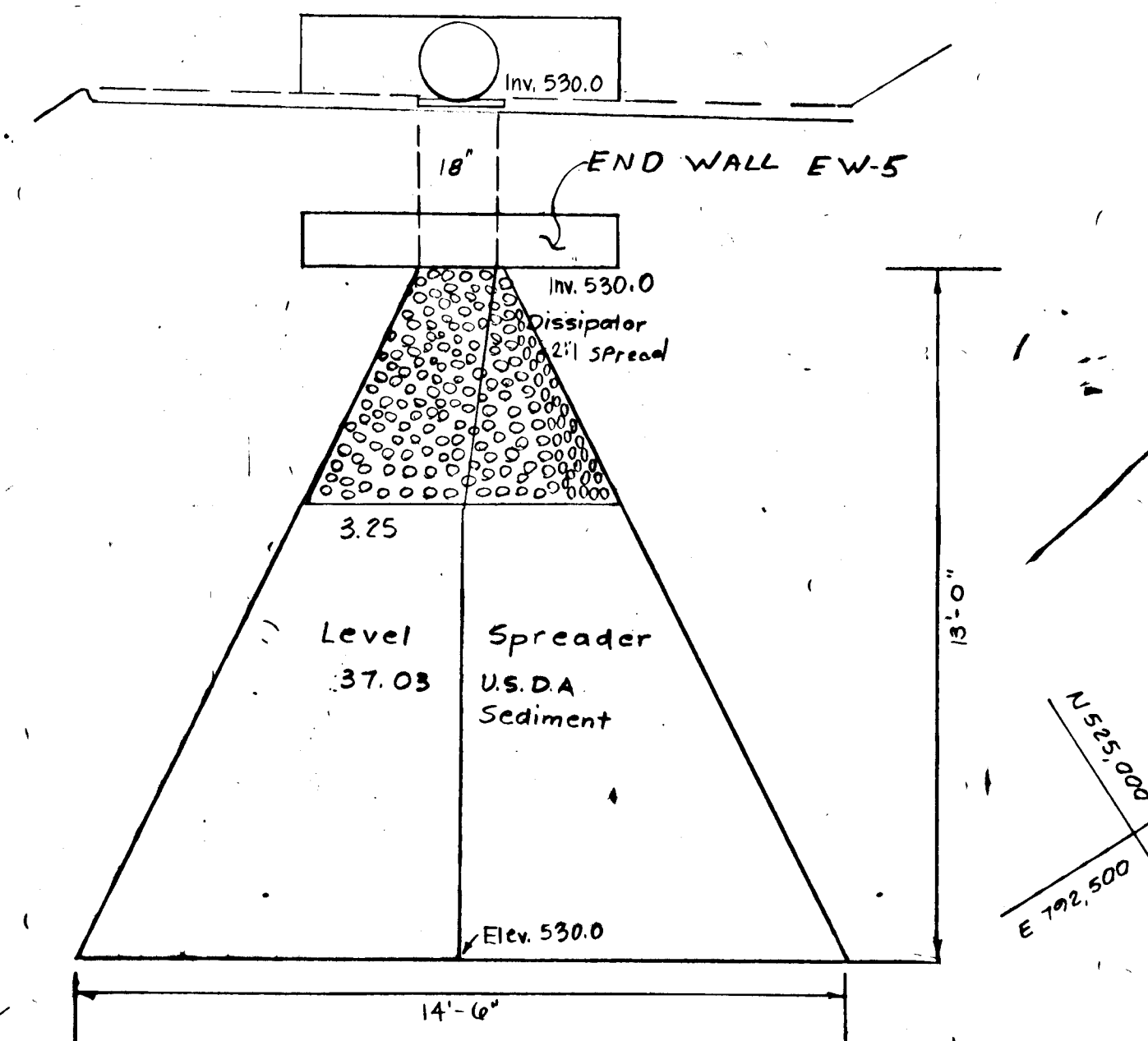


DEWATERING METHOD

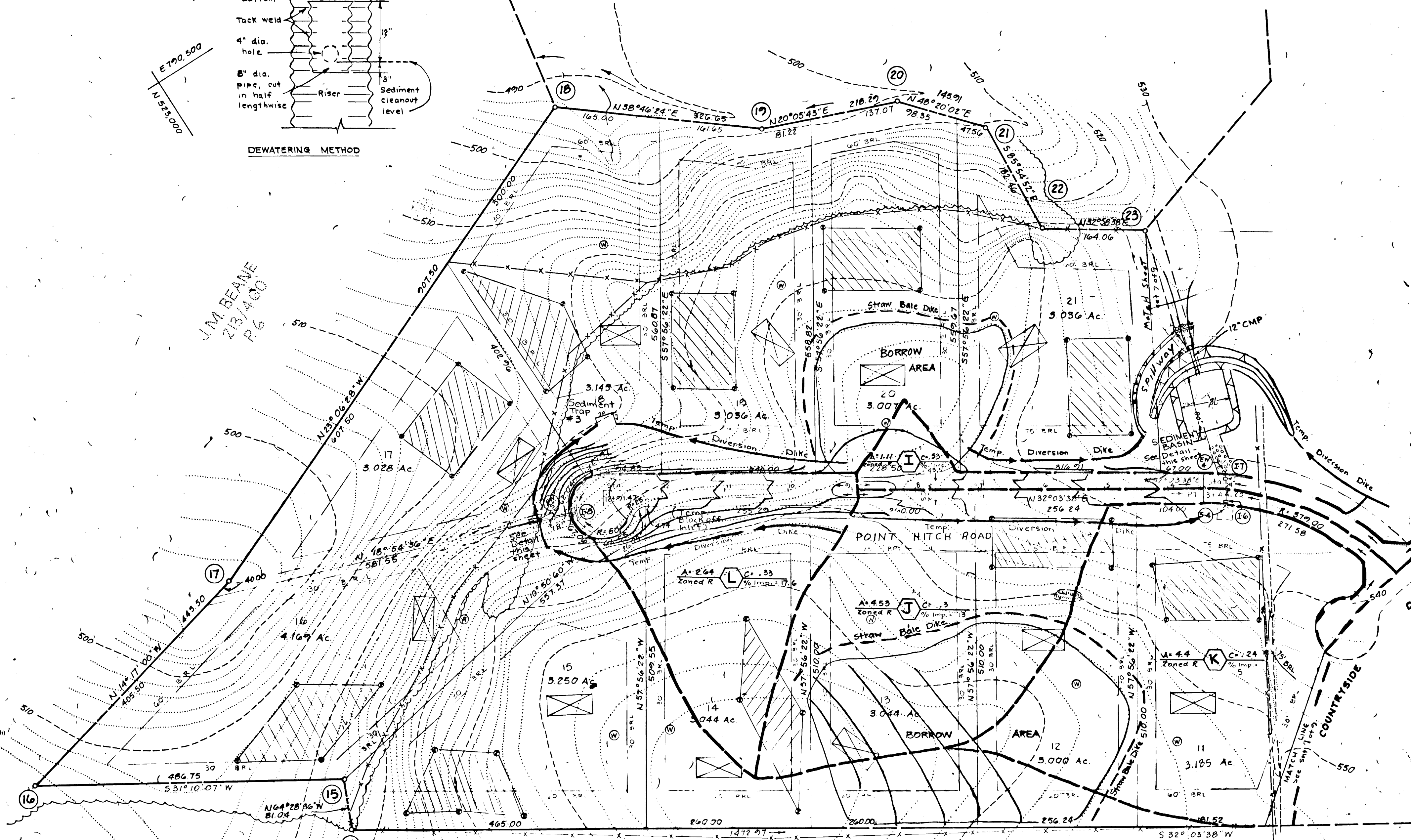


PIPE SPILLWAY  
Not to Scale

(FOR SEDIMENT POND SEE THIS SHEET)



DEVELOPER  
Bernard M. Rome, James Diem  
P.O. Box 555  
Ellicott City, Md. 21043



FB. DEVLIN  
521/412  
P.7

LEGEND

- Proposed House
- Proposed 10,000 S.F. Septic Reservation
- Percolation Test Hole
- Proposed Well
- Existing Contours
- Proposed Contours
- Limit of Submission

Reviewed for Howard S.C.D. and meets technical requirements.

Signature [Signature] Date 8-27-80  
U.S. SOIL CONSERVATION SERVICE

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Approved William T. Rome Date 8-27-80  
HOWARD SOIL CONSERVATION DISTRICT

DEVELOPER'S CERTIFICATION

I CERTIFY THAT ALL DEVELOPMENT & OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN OF EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DUE AND NECESSARY.

Bernard M. Rome James A. Diem 14 Jan 80  
DATE

ENGINEER'S CERTIFICATE

"I certify that this plan for erosion and sediment control is a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Board of Soil Conservation District."

F. Denis Light  
F. Denis Light #7617 Date



SEDIMENT CONTROL &  
DRAINAGE AREA MAP  
"COUNTRYSIDE"

LOTS 11 thru 21  
SHEET 8 OF 9  
4th Election District, Howard Co., Md.  
Scale: 1"=100' Parcel: 65  
Date: 3-1-79 Deed Ref: 934/611

Prepared by: H.T.T. Assoc.  
Clark Bldg. Suite 307  
Columbia, Md. 21044

APPROVED: For Storm Drainage Systems and Public Roads, Ho. Co. Dept. of Public Works.

[Signature]  
Chief, Bureau of Engineering Date

APPROVED: Howard County Office of Planning and Zoning

[Signature]  
Chief, Div. of Land Development Date



**SEDIMENT AND SOIL EROSION CONTROL NOTES**

- All Sediment Control Measures to be adjusted to meet field conditions at time of construction and be constructed prior to any grading or disturbance of existing surface material.
- All Sediment Measures shall be undertaken in strict accordance with the approved plans and the criteria specifications approved by the Howard County Soil Conservation District. (Ho. Co. SCD)
- All Seeding on Sediment Control Facilities to be done in accordance with the Ho. Co. SCD, see Temporary Seeding Specs., this sheet. Seeding to be done immediately upon construction.
- Periodic inspection and maintenance of all Sediment Control Structures must be provided to insure the intended purpose is accomplished.
- Contractor installing the above shall obtain and follow the Standards and Specifications for soil erosion in urbanizing areas, as distributed by the Ho. Co. SCD.
- All Sediment Control Measures are to remain in place until permission for their removal has been obtained from the Ho. Co. Office of Inspections and Permits.
- Notify the Ho. Co. Office of Inspections and Permits prior to starting any work. (997-2436)
- On site inspection and maintenance of all Sediment Control Measures including cleanout of all Sediment Traps and Drains and proper establishment of all vegetation measures will be the responsibility of the Contractor or his representative on the site on a continuing day to day basis.

**GENERAL NOTES**

- The H.S.C.D. and Bureau of License Inspection and Permits will be given 24 hour notice prior to any grading.
- Diversion Terraces (or Furrows) will be utilized to reduce slope lengths where possible, during land grading operations.
- Permanent Vegetation will be established as rapidly as possible on all exposed faces of cuts and fills and other areas following grading operations.
- Temporary Vegetation will be applied upon completion on rough grading on all other disturbed areas where such areas will not be built on within a period of ninety (90) days.
- Storm Sewer inlets located below high silt producing areas will be protected by the use of adequate silt traps during construction.
- All Cut and Fill Slopes will be a maximum of 2:1.

**SEDIMENT POND BASIN**

- Repair all damages caused by soil erosion or construction equipment at or before end of each working day.
- Sediment shall be removed from basin when it reaches the specified distance below the top of the riser. This sediment shall be placed in such a manner that it will not erode from the site. The sediment shall not be deposited downstream from the embankment or in or adjacent to a stream or flood plain.

**SEDIMENT POND DISPOSAL**

When the sediment basin has served its intended purpose and the contributing drainage area has been properly stabilized, the embankment and resulting sediment deposits are to be leveled and the area stabilized using the permanent measures shown on this sheet.

**TEMPORARY SEEDING SPECIFICATIONS**

- Apply ground agricultural limestone at the rate of two tons per acre.
- Apply a minimum of 500 lbs. per acre of 10-20-10 or equivalent fertilizer.
- Incorporate both lime and fertilizer into the top 3/4" of surface soil by disking or other suitable means.
- Seed one of the following mixtures at the rate shown per acre.  
(August 1 to November 1)  
50 lbs Italian rye grass or  
2 bu. rye (small grain) or  
3 bu. winter oats

**PERMANENT SEEDING SPECIFICATIONS**

before seeding apply the following:  
2000# Ground Agricultural Limestone  
1000# 5-10-10 Fertilizer

Distribute into the soil to a depth of 2-3".

Then seed the following mixture at the rate shown per acre:  
50 lbs. Kentucky 31 Tall Fescue  
15 lbs. Korean Lespedeza

Mulch as stated under mulching rates, this sheet.

Slopes flatter than 3:1 in lawns.

Lime and Fertilizer as above  
Incorporate as above.  
Seed to 60# Kentucky Blue Grass and 60# Red Fescue.  
Mulch as above.

**MULCHING**

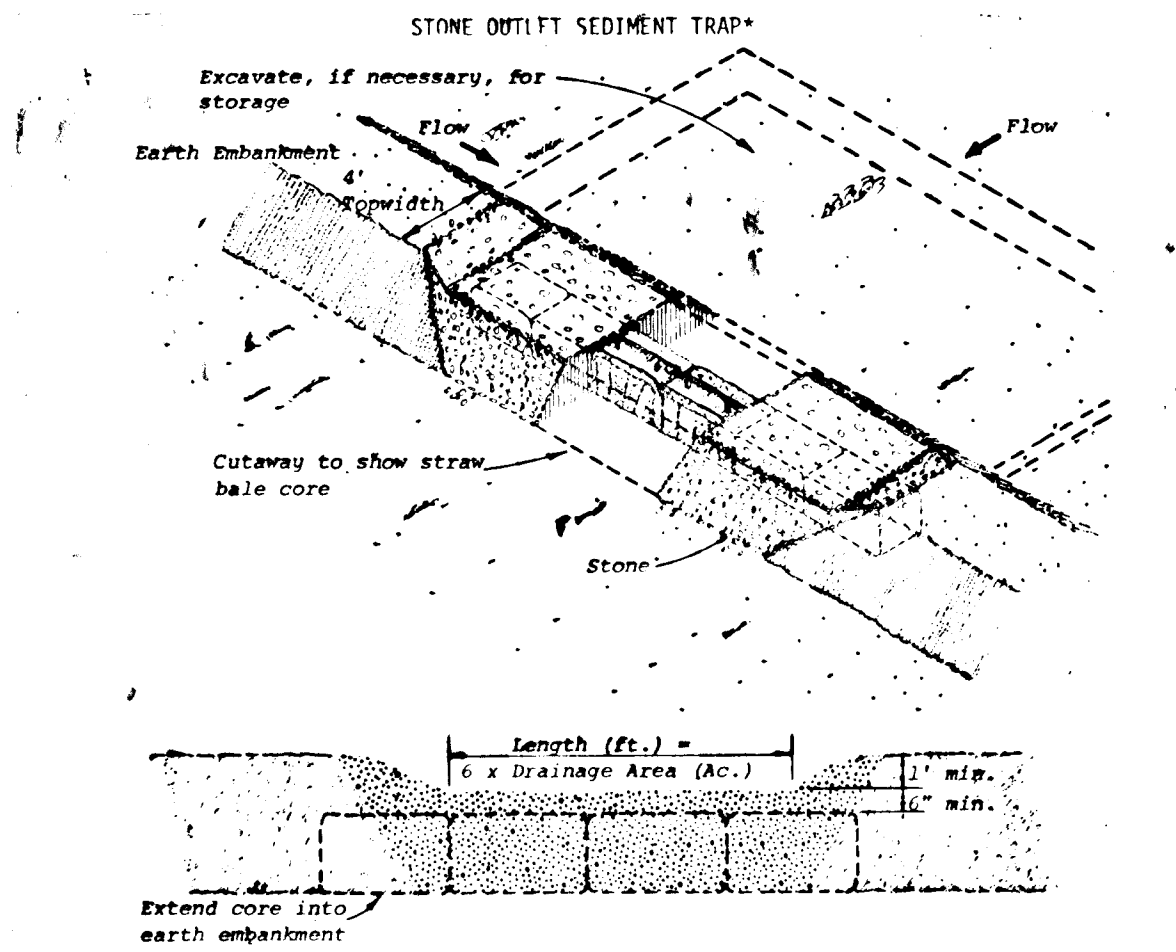
- Mulch materials should be unweathered, unchopped small grain straw spread at the rate of 1 1/2 to 2 tons per acre.
- Spread uniformly by hand or mechanically so that at least 75% of the soil surface will be covered. For uniform distribution of hand spread mulch divide area into approx. 1000 sq. ft. section and place one bale approx. 100 lbs of mulch for distribution within each section approx. 65-100 lb. bales will be required.

**CONSTRUCTION SEQUENCE**

- Obtain grading permit.
- Notify Howard County Bureau of License Inspection and Permits and the Soil Conservation Service 24 hours prior to construction operations.
- Construct all approved temporary sediment control devices, berms, stone entrances, traps, etc. and stabilize using approved sediment control measures as shown on this sheet. NOTE - Storm drain pipes S-1 to EW-1 and S-2 to EW-2 are part of sediment control devices.
- Clear, grub and rough grade roads.
- Begin storm drainage and ditch construction.
- Bring road to subgrade.
- Complete storm drain construction.
- Remove stone entrance and path to finished grade and install curbs.
- Remove excavated traps and stone outlets and all other temporary sediment control devices with approval of Howard County Soil Conservation District.
- Stabilize all disturbed areas with approved sediment control measures on this sheet.

APPROVED: For Storm Drainage Systems and Public Roads, the Co. Dept of Public Works  
K. R. R. O. [Signature]  
Chief, Bureau of Engineering

APPROVED: Howard County Office of Planning and Zoning  
[Signature]  
Chief, Bureau of Planning and Zoning

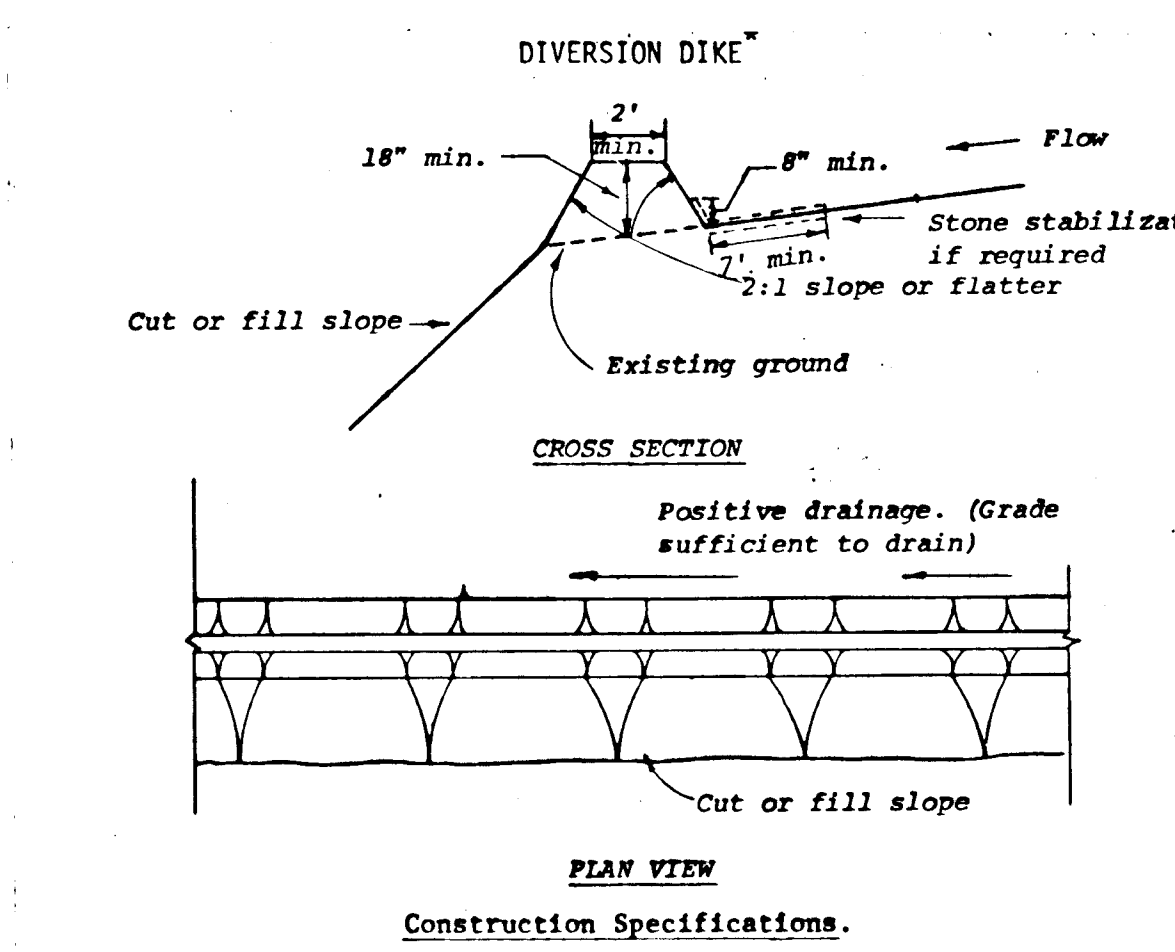


**NOTE** - Drawings show straw bales used for core. Bales are anchored as per Standard and Specifications for Straw Bale Dike. Other materials (e.g., timber or concrete, block) may also be used for core. Firly anchor all core material to ground.

**Construction Specifications**

- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots or other woody vegetation as well as over sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
- All cut and fill slopes shall be 2:1 or flatter.
- The crushed stone used in the outlet shall meet AASHTO designation M43, Size No. 2 or 24 or its equivalent such as MSHA No. 2. Gravel, meeting the above gradation, may be used if crushed stone is not available. Crusher run is not acceptable.

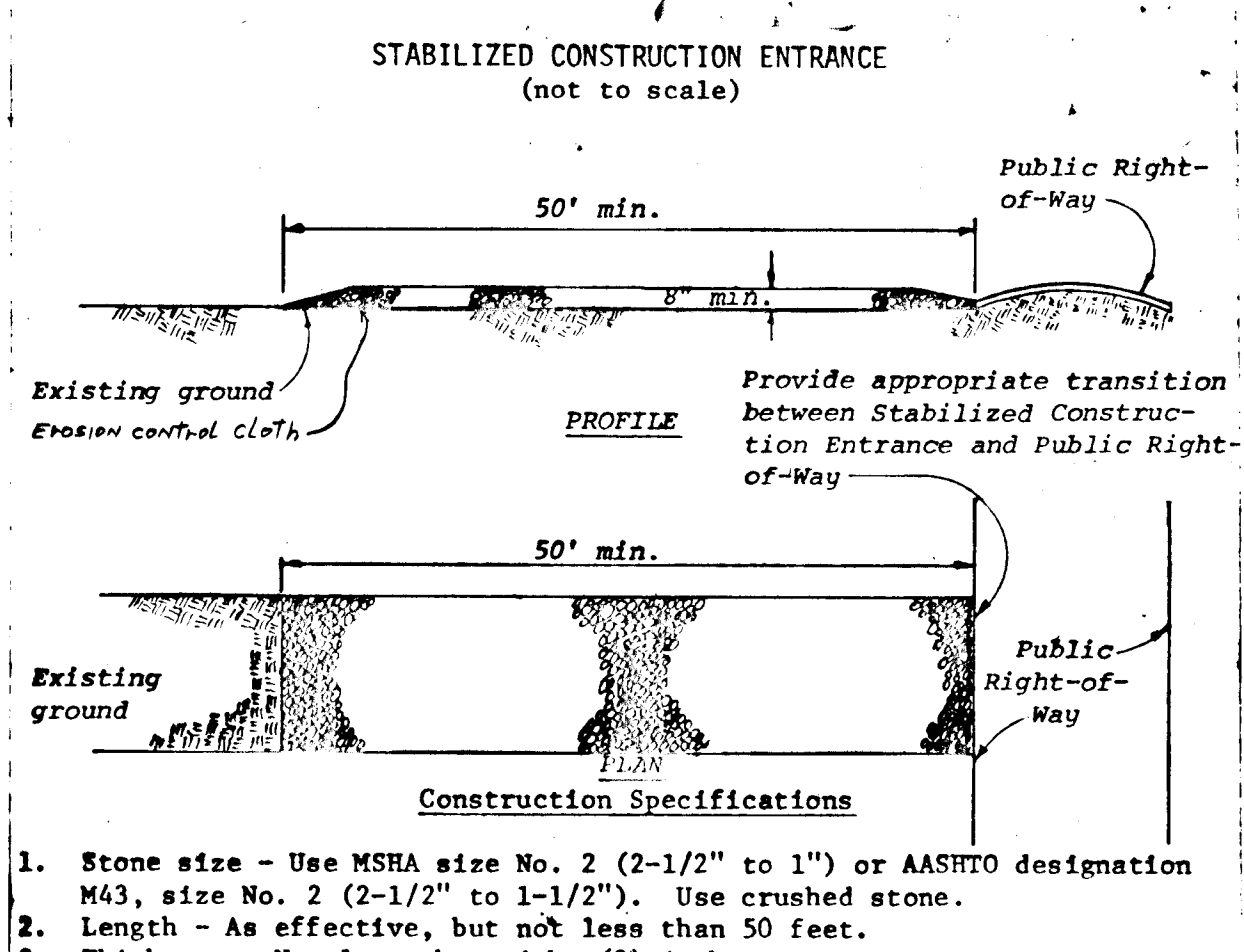
\* Drainage area less than 5 acres.



**Construction Specifications**

- All dikes shall be machine compacted.
- All diversion dikes shall have positive drainage to an outlet.
- Diverted runoff from a protected or stabilized area shall outlet directly to an undisturbed stabilized area or into a level spreader or grade stabilization structure.
- Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as a sediment trap or a sediment basin or to an area protected by any of these practices.
- Stabilization, as specified by the plans, shall be: (1) in accordance with Standard and Specifications for Grassed Waterway, and the area to be stabilized shall be the channel (flow area); or (2) the flow area shall be lined with stone that meets MSHA size No. 2 or AASHTO M43 size No. 2 or 24 which is placed in a 3 inch thick layer and pressed into the soil. The area covered by the stone shall be as shown on the drawing above.
- Periodic inspection and required maintenance shall be provided.

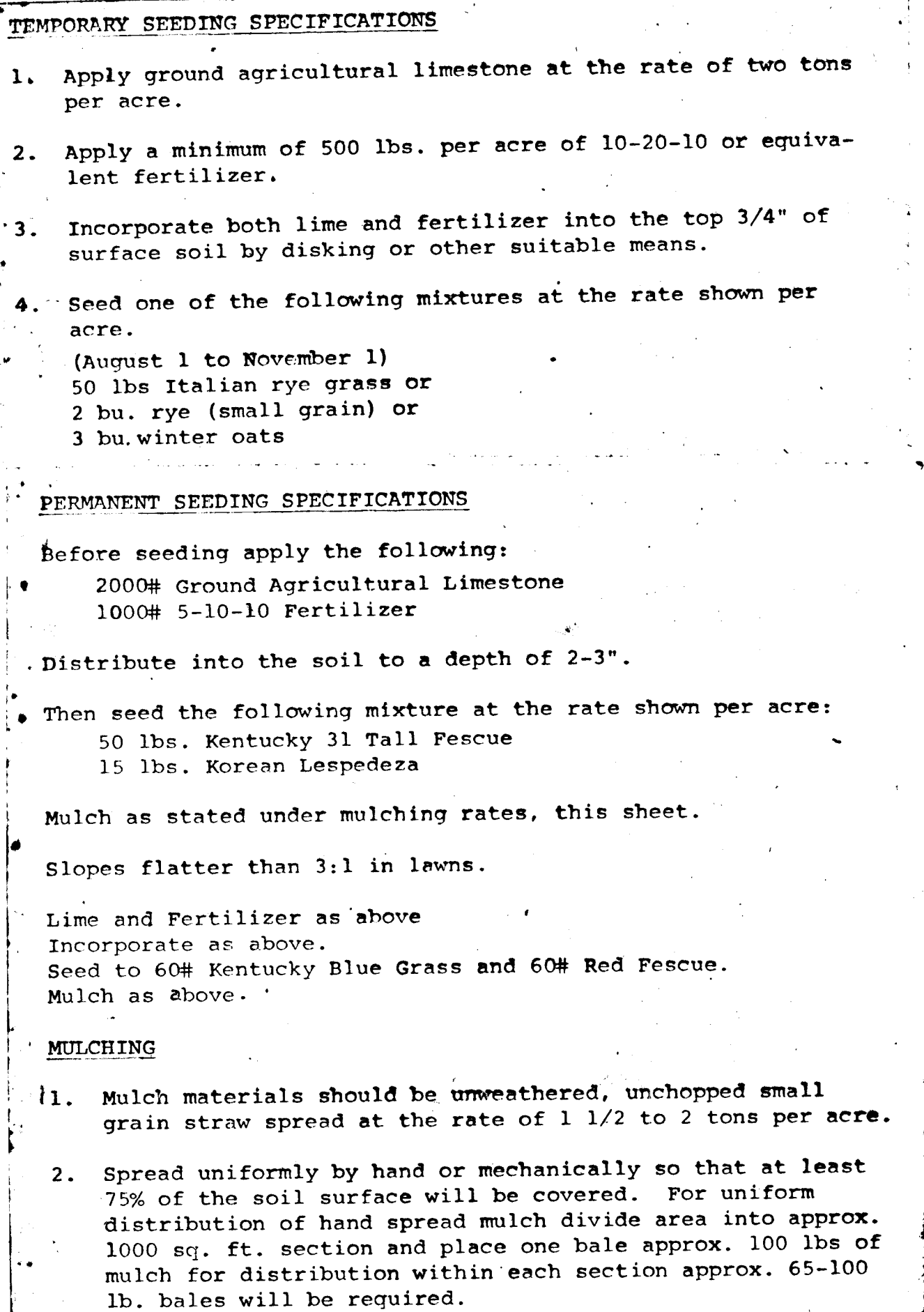
\* Drainage area less than 5 acres



**Construction Specifications**

- Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M43, size No. 2 (2-1/2" to 1-1/2"). Use crushed stone.
- Length - As effective, but not less than 50 feet.
- Thickness - Not less than eight (8) inches.
- Width - Not less than full width of all points of ingress or egress.
- Washing - When necessary, wheels 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 crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sand bags, gravel, boards or other approved methods.
- 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 cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.

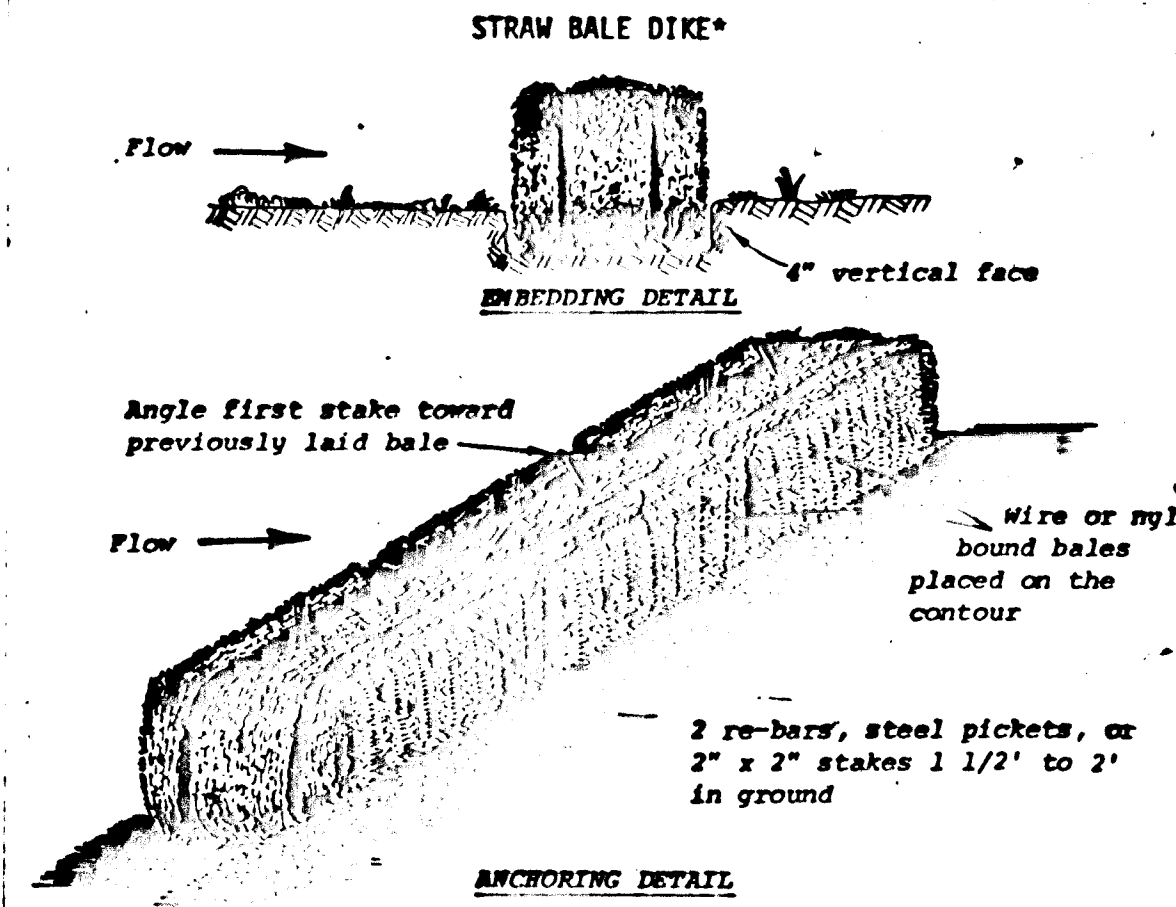
Standard Symbol DD



**Construction Specifications**

- All dikes shall be machine compacted.
- All interceptor dikes shall have positive drainage to an outlet.
- Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction traffic.
- Field location should be adjusted as needed to utilize a stabilized safe outlet.
- Interceptor dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin when either the interceptor dike channel or the drainage area above the dike are not adequately stabilized.
- Stabilization, as specified by the plans, shall be: (1) in accordance with Standard and Specifications for Grassed Waterway, and the area to be stabilized shall be the channel (flow area); or (2) the flow area shall be lined with stone that meets MSHA size No. 2 or AASHTO size No. 2 or 24 which is placed in a 3 inch thick layer and pressed into the soil. The area covered by the stone shall be as shown on Standard Drawing DD-1.
- Periodic inspection and required maintenance must be provided.

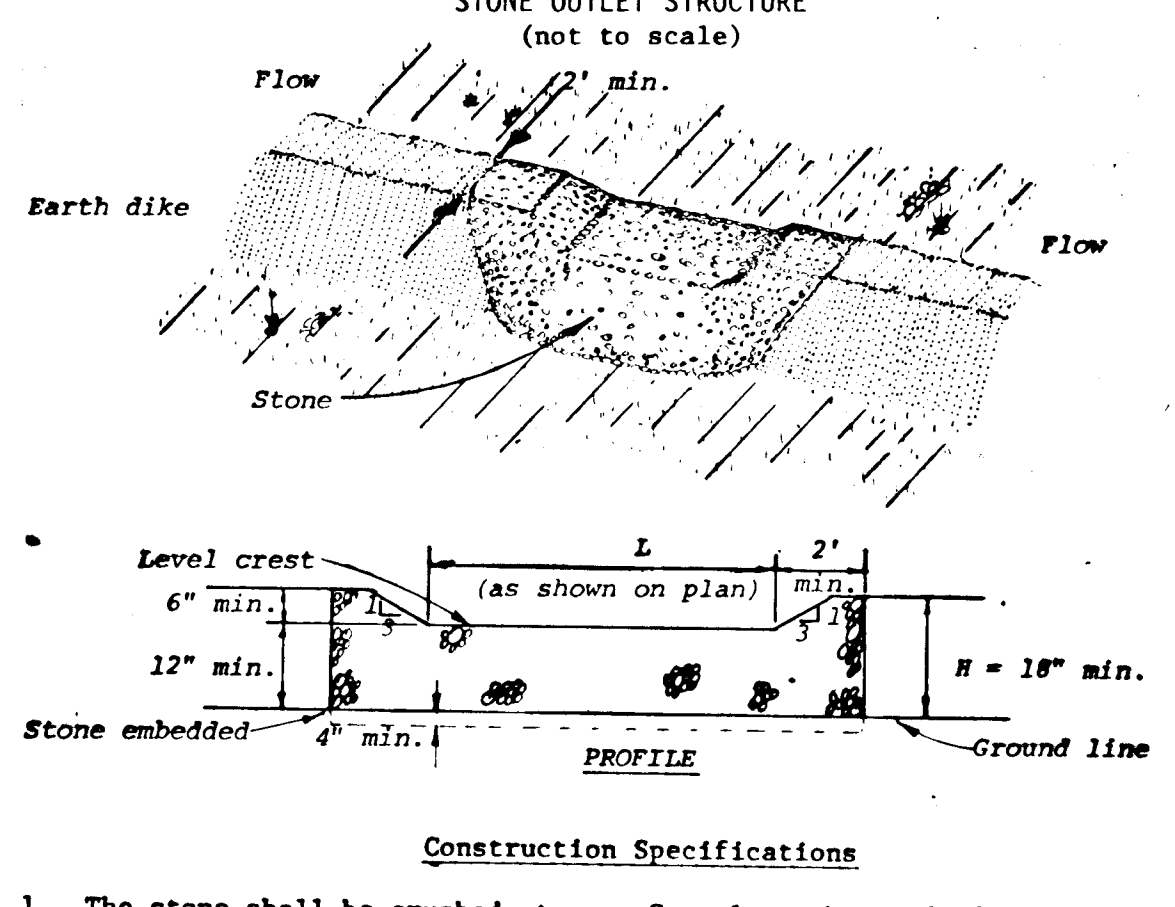
\* Drainage area less than 5 acres.



**Construction Specifications**

- Bales shall be placed in a row with ends tightly abutting the adjacent bales.
- Each bale shall be embedded in the soil a minimum of 4".
- Bales shall be securely anchored in place by stakes or re-bars driven through the bales. The first stake in each bale shall be angled toward previously laid bale to force bales together.
- Inspection shall be frequent and repair or 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.

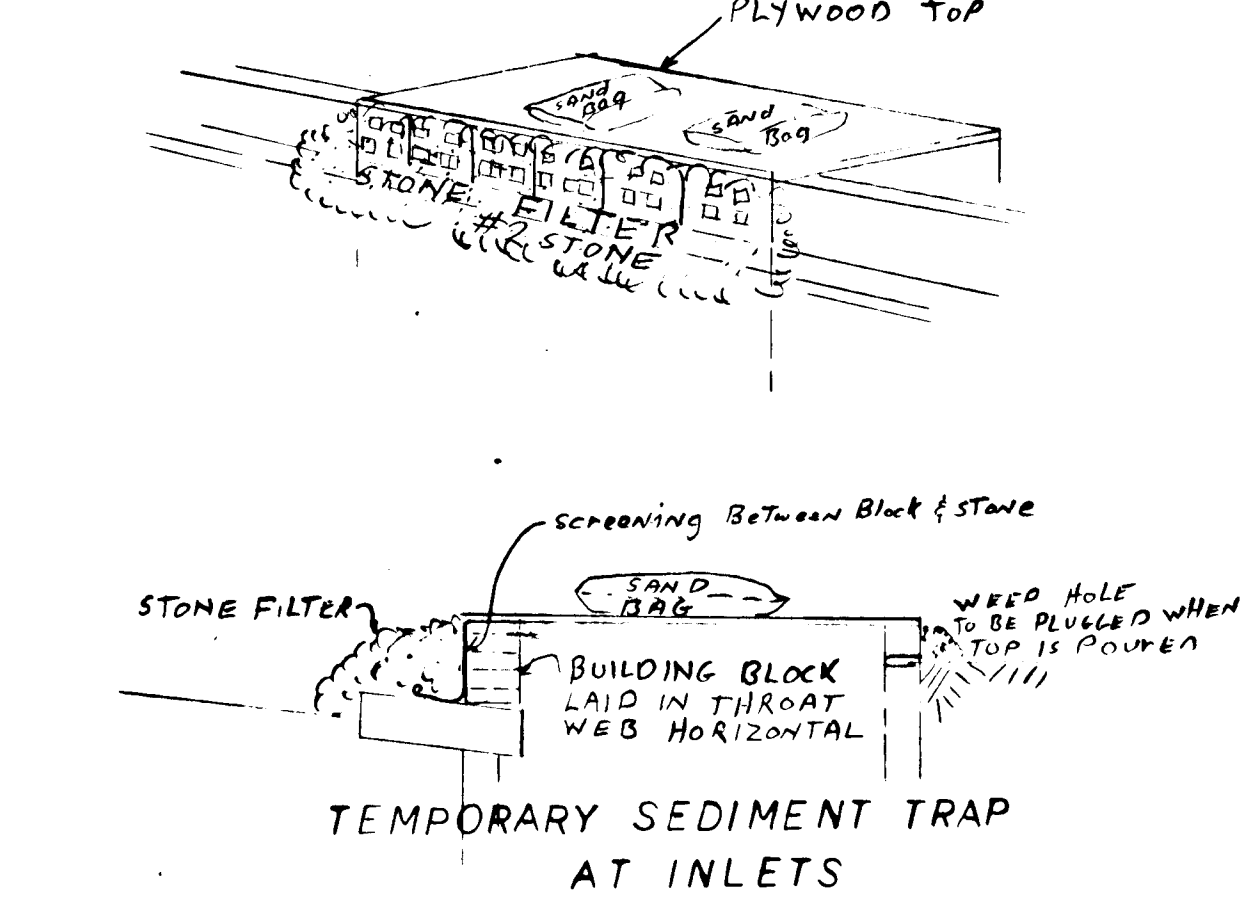
\* Drainage area less than 1/2 acre.



**Construction Specifications**

- The stone shall be crushed stone. Gravel may be used if crushed stone is not available. The stone shall meet MSHA Size No. 2 or AASHTO designation M43 Size No. 2 or 24.
- The crest of the stone dike shall be at least six inches lower than the lowest elevation of the top of the earth dike and shall be level.
- The stone outlet structure shall be embedded into the soil a minimum of four inches.
- The minimum length, in feet, of the crest of the stone outlet structure shall be equal to six times the number of acres of contributing drainage area.
- The stone outlet structure shall be inspected after each rain, and the stone shall be replaced when the structure ceases to function as intended due to silt accumulation among the stone, washout, construction traffic damage, etc.

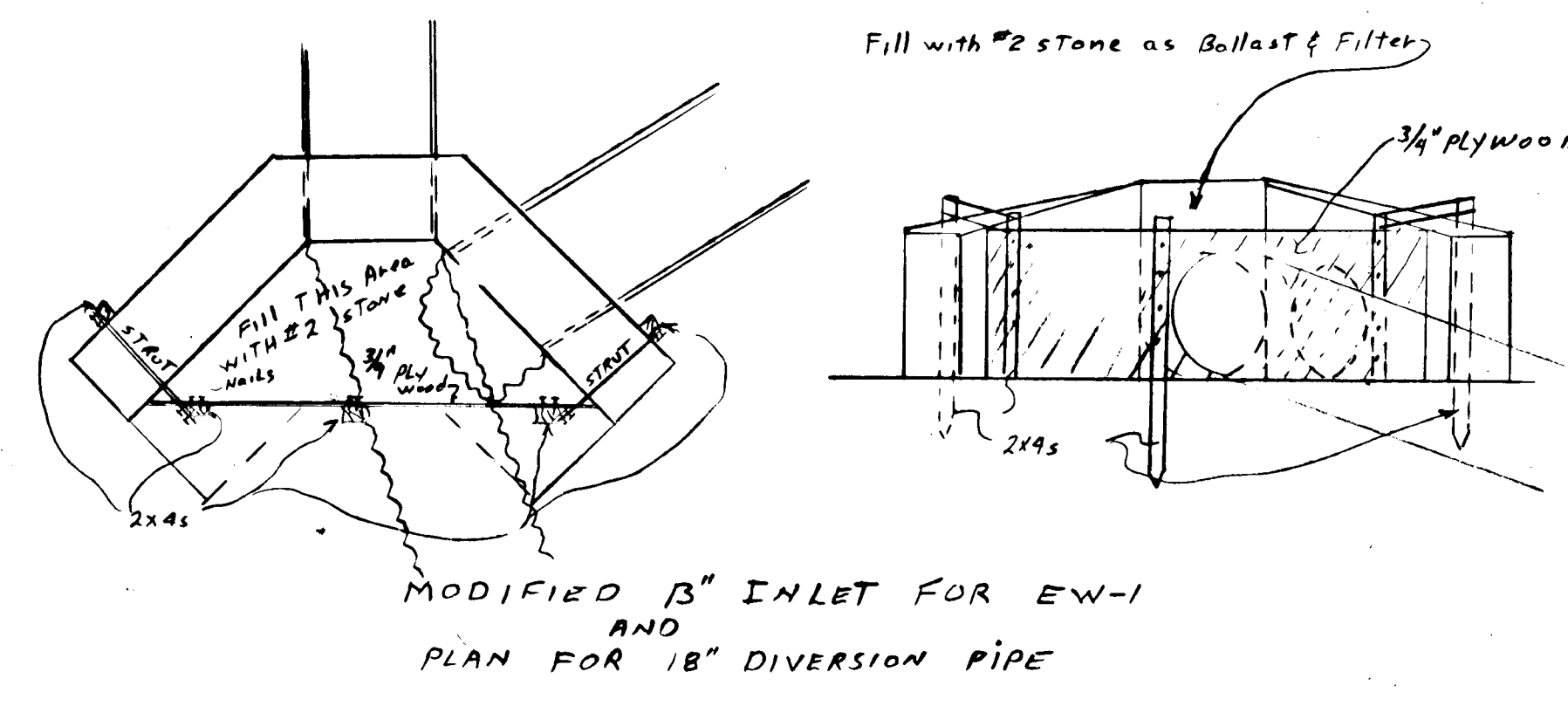
\* Drainage area less than 5 acres



**Construction Specifications**

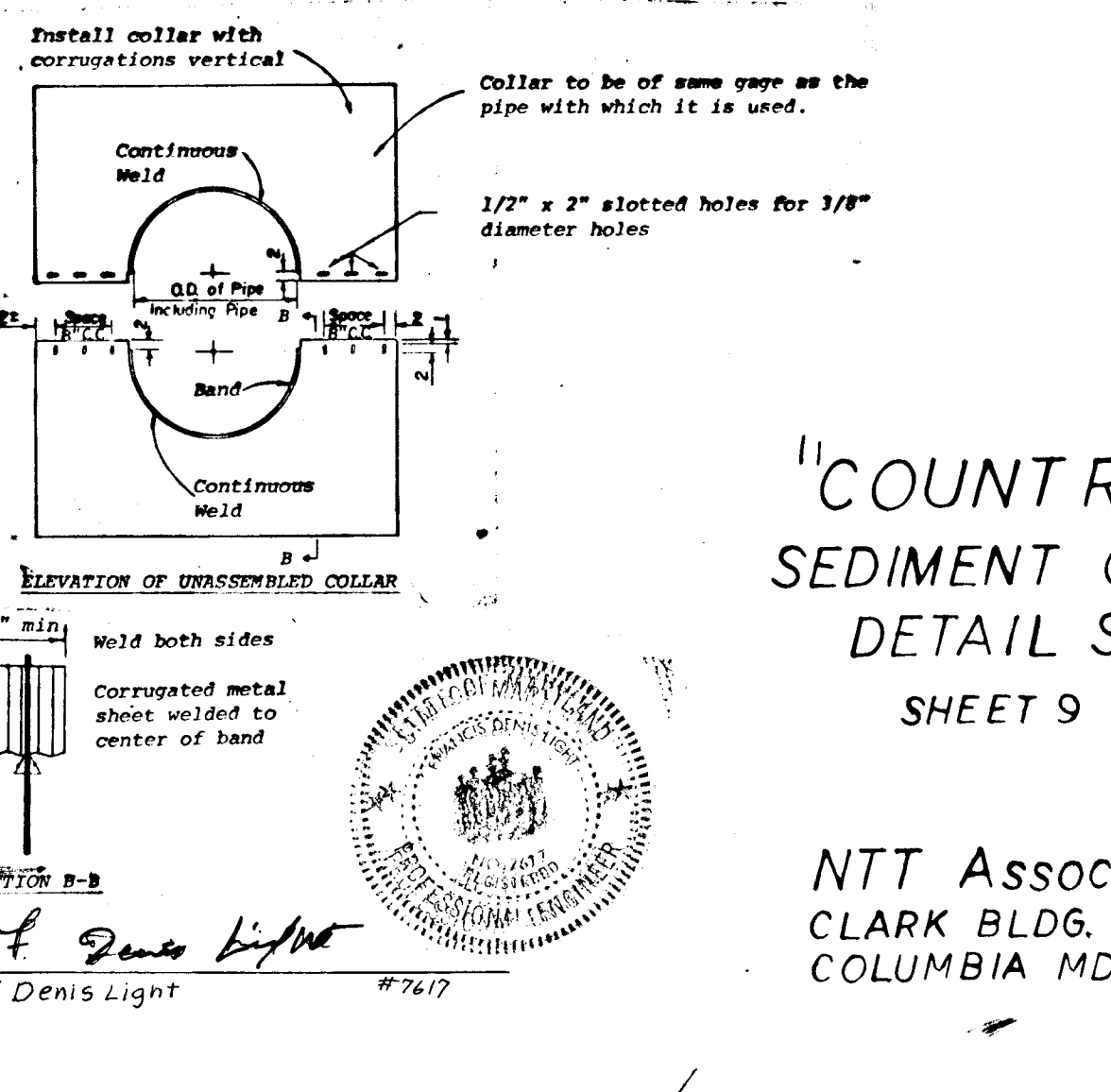
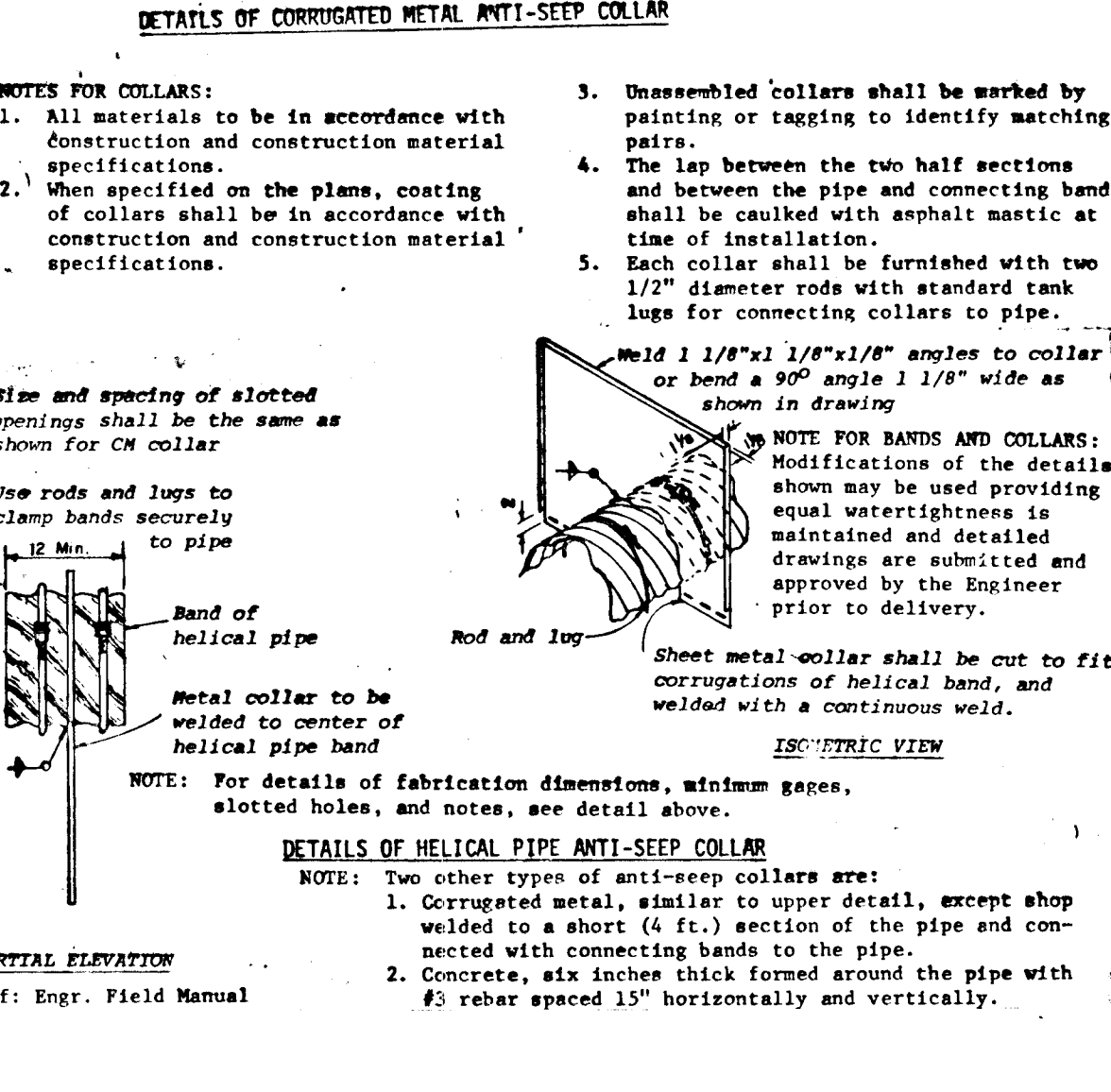
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- The stone outlet structure shall be inspected after each rain, and the stone shall be replaced when the structure ceases to function as intended due to silt accumulation among the stone, washout, construction traffic damage, etc.

\* Drainage area less than 5 acres



APPROVED: For Storm Drainage Systems and Public Roads, the Co. Dept of Public Works  
K. R. R. O. [Signature]  
Chief, Bureau of Engineering

APPROVED: Howard County Office of Planning and Zoning  
[Signature]  
Chief, Bureau of Planning and Zoning



"COUNTRYSIDE"  
SEDIMENT CONTROL  
DETAIL SHEET  
SHEET 9 OF 9

NTT ASSOCIATES  
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