

VICINITY MAP  
1" = 2000'

BY THE ENGINEER:  
I certify that this plan of 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.

BY THE DEVELOPER:  
I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and all authorized periodic on-site inspection by the Howard Soil Conservation District or their authorized agents as are deemed necessary. Development from this plan will not be made unless authorized by the Howard Soil Conservation District.

*J. Denis Light*  
Signature of Engineer  
3-28-75  
Date

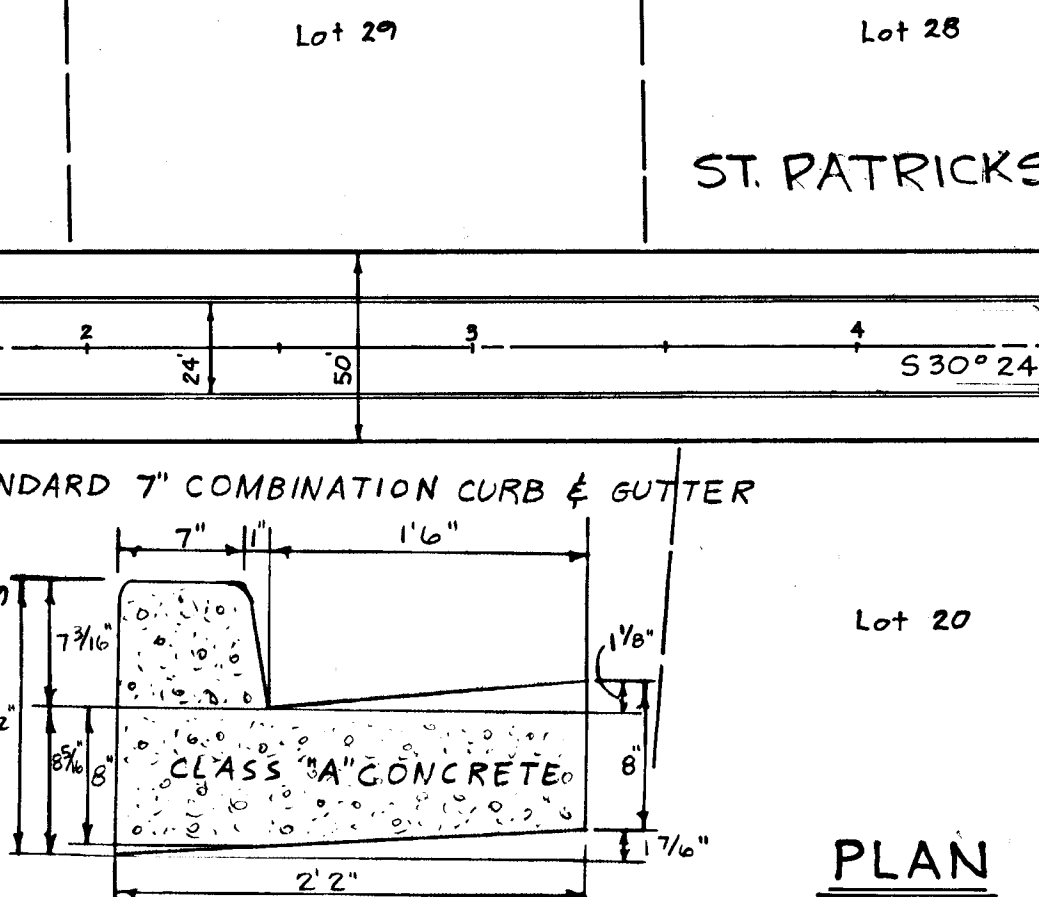
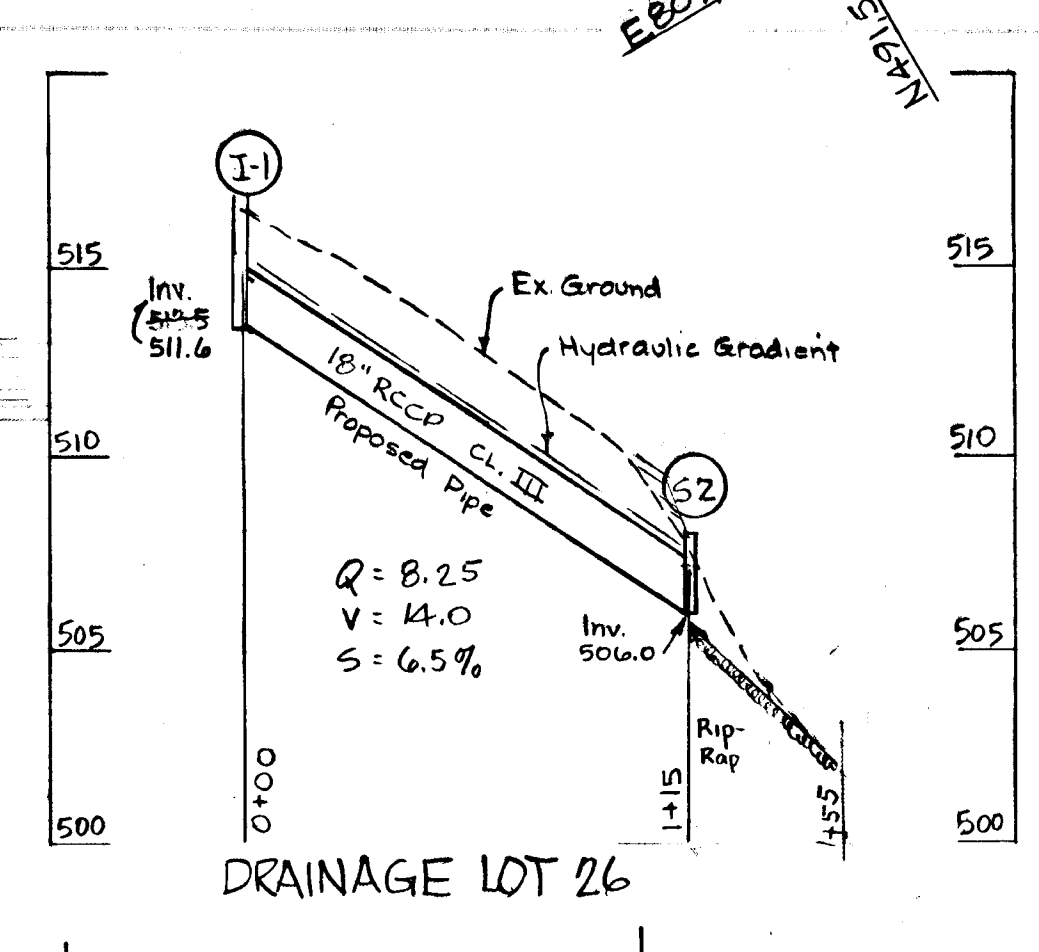
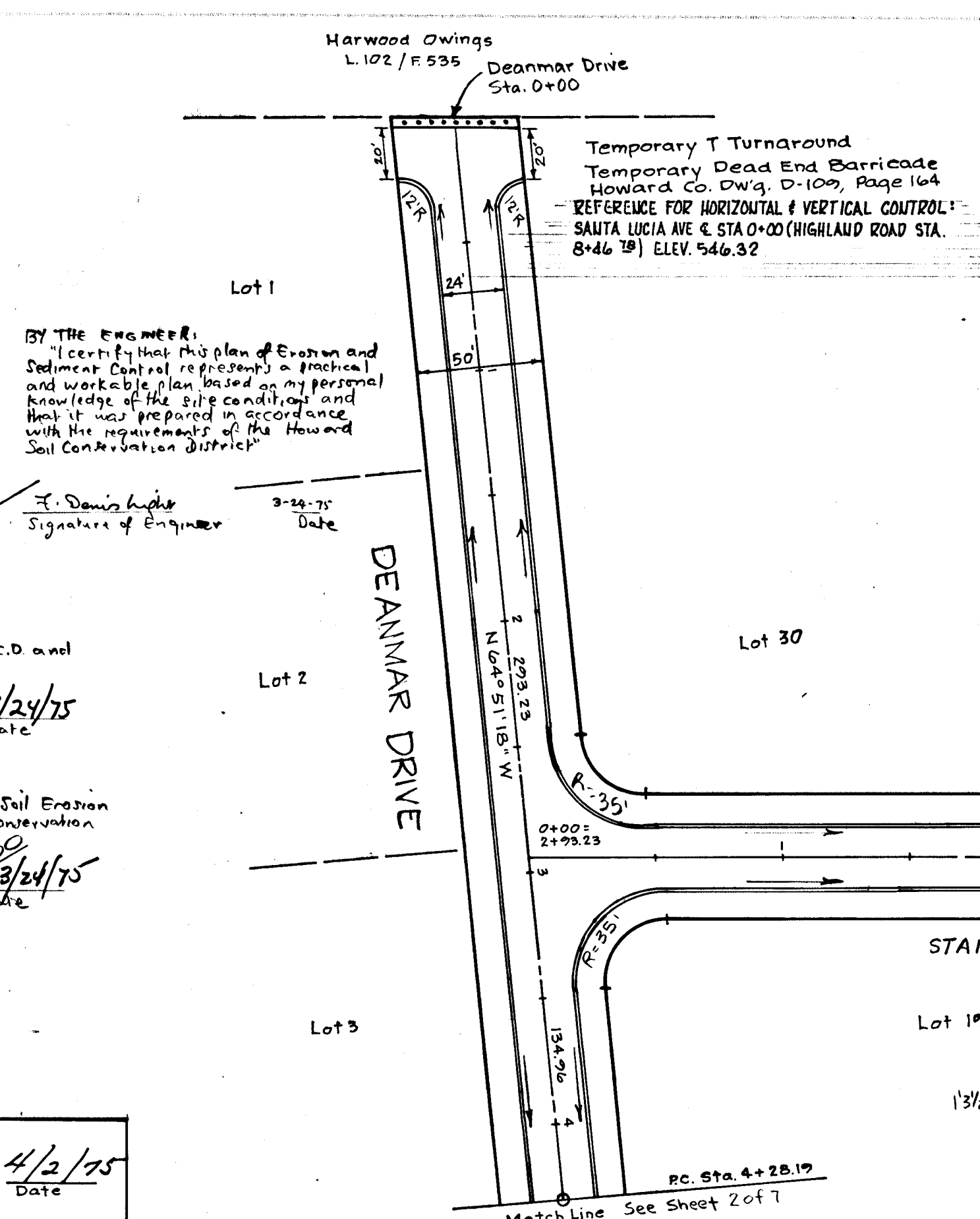
*Eric V. Herman*  
Signature of Developer  
3/24/75  
Date

Reviewed for HOWARD  
Chief, Bureau of Highways  
4/2/75  
Date

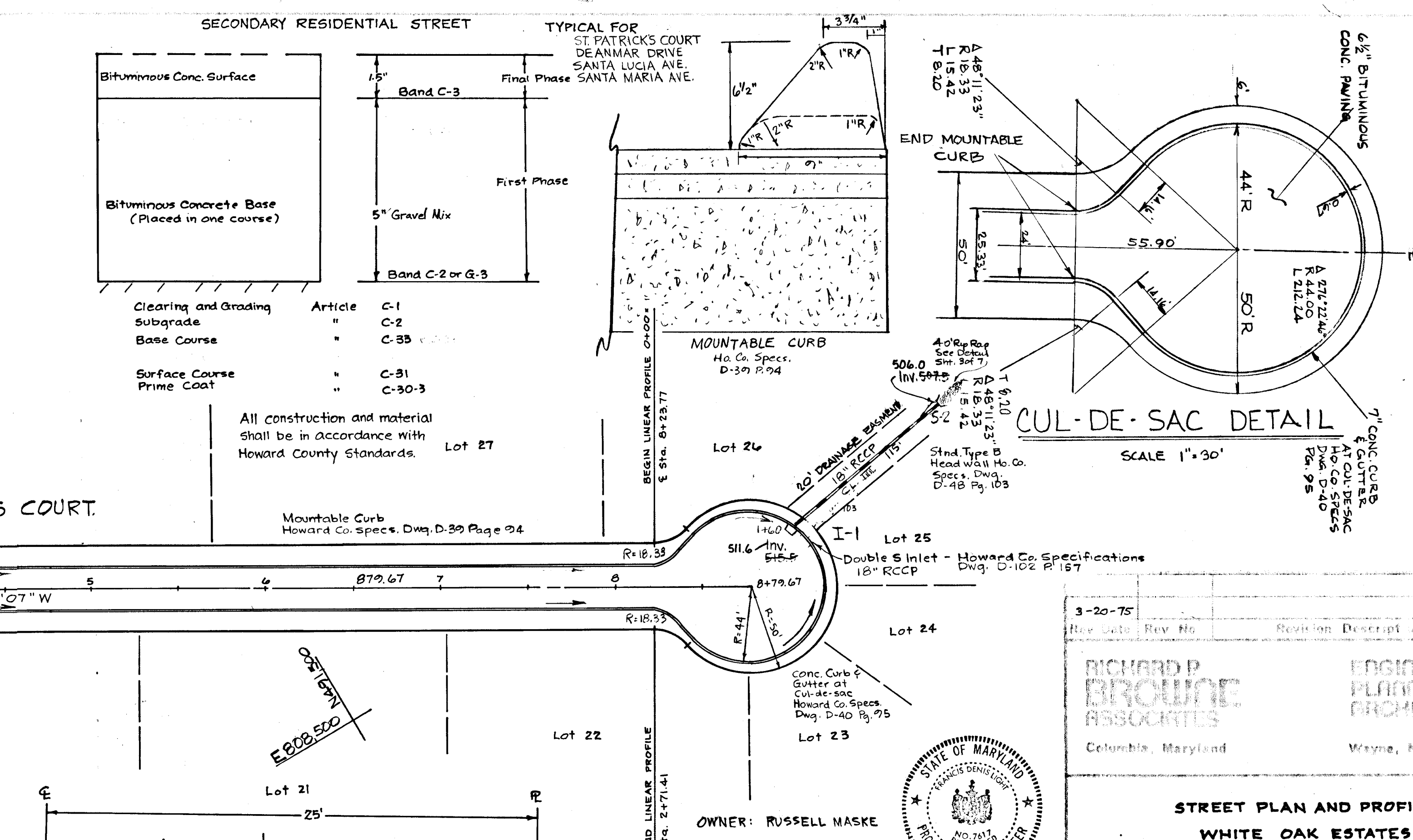
Approved *Robert W. Zehn*  
Howard Sp. 3  
3/24/75  
Date

DEPARTMENT OF PUBLIC WORKS  
*D. N. Reilank*  
Chief, Bureau of Highways  
4/2/75  
Date

OFFICE OF PLANNING AND ZONING  
*J. Denis Light*  
Chief, Division of Land Development and Transportation Planning  
3/27/75  
Date



NOTE: DESIGN SPEED 30 M.P.H.  
NOTE: ZONE R-40  
NOTE: All traffic control devices to be in accordance with the Manual of Uniform Traffic Control Devices 1971 Edition.



OWNER: RUSSELL MASKE  
DEVELOPER: PAUL KOTTIS  
115 Goddards Ave.  
Silver Spring, Md.  
20904

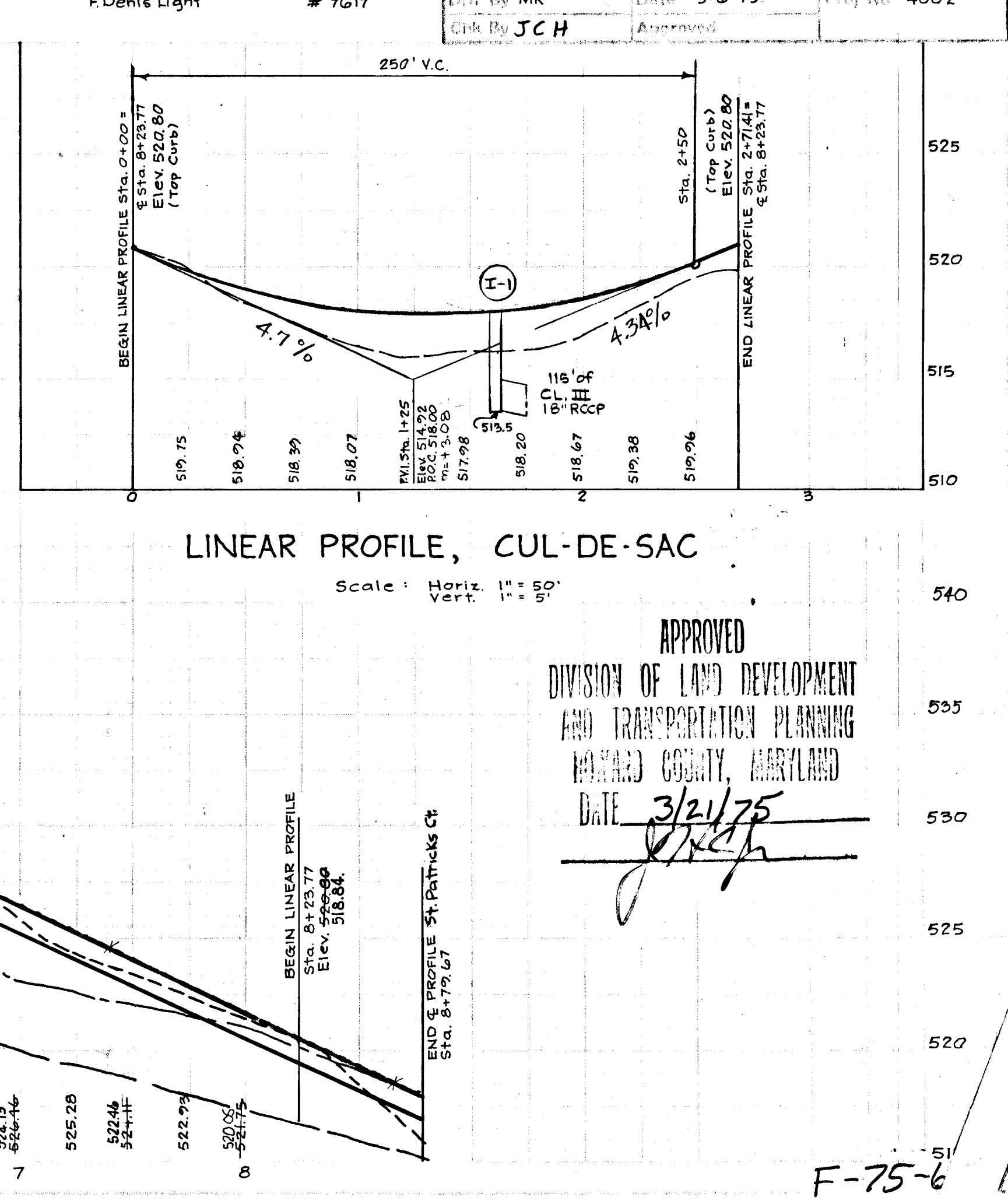
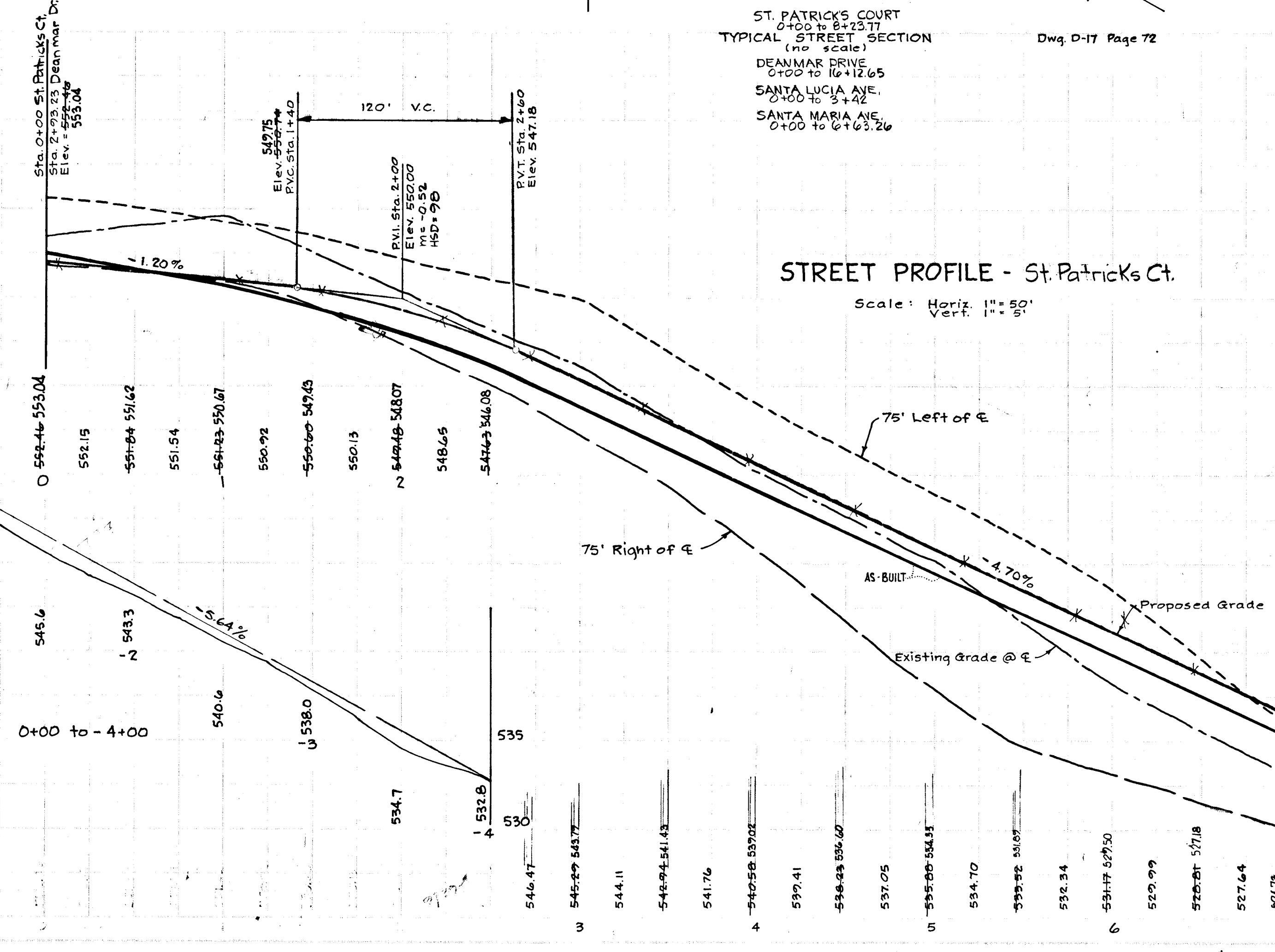
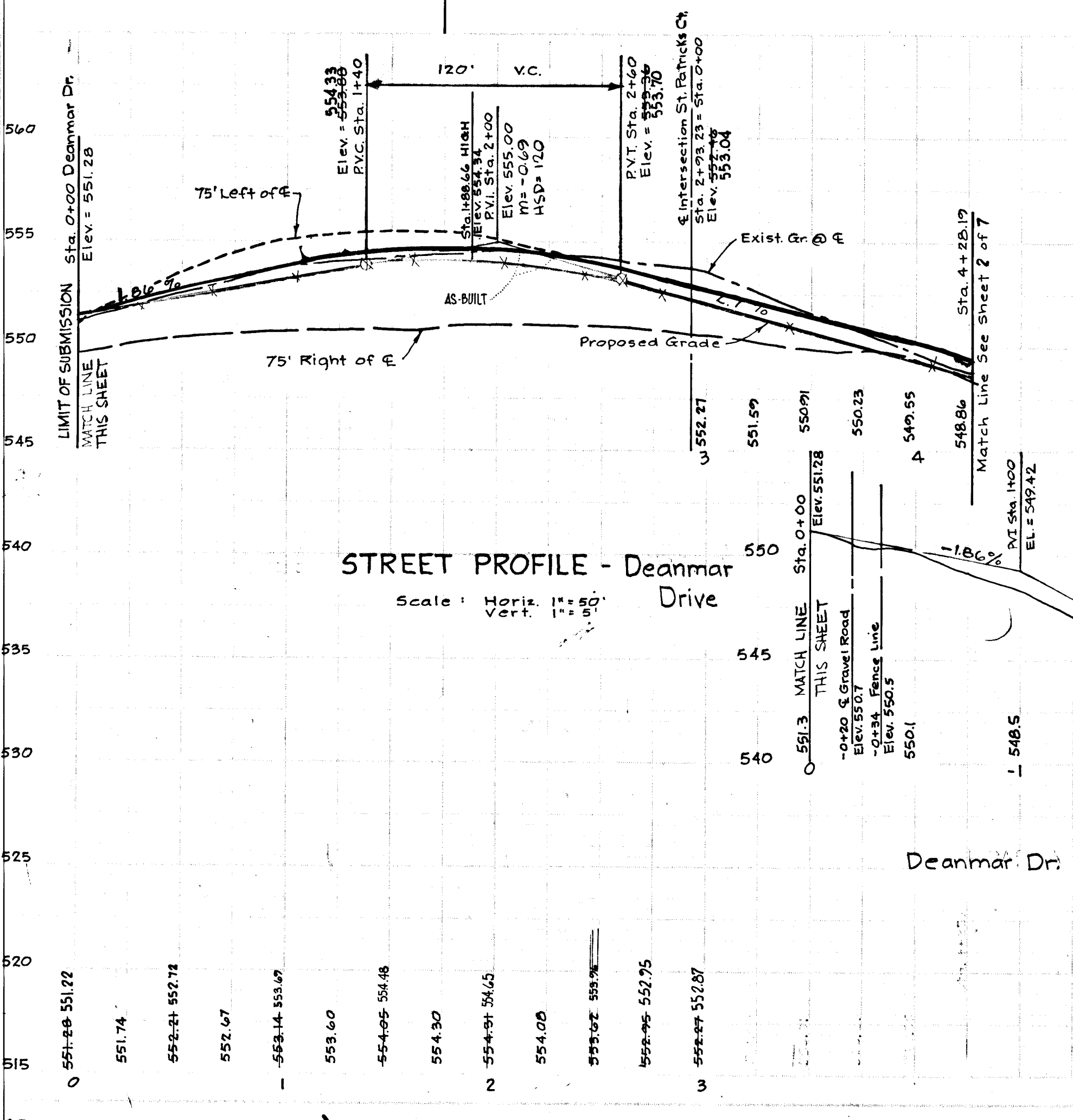
*J. Denis Light*  
Professional Engineer  
# 7617

Rev No.	Rev Date	Revision Description
3-20-75		

STREET PLAN AND PROFILE  
WHITE OAK ESTATES

5th Election District  
Howards County, Md.

Drawn by MK  
Date 3-6-75  
Proj No. 4002



APPROVED  
DIVISION OF LAND DEVELOPMENT  
AND TRANSPORTATION PLANNING  
HOWARD COUNTY, MARYLAND  
DATE 3/21/75

BY THE DEVELOPER:  
I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control and all required periodic on site inspection by the Howard Soil Conservation District, or their authorized agents as may be deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

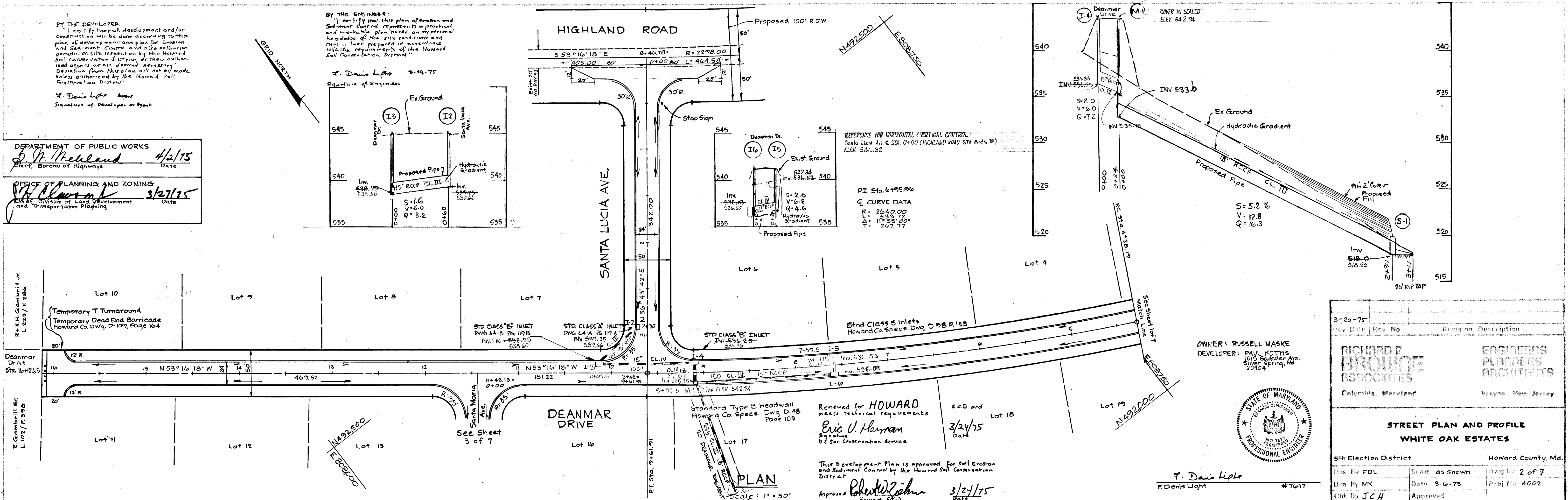
F. Denis Light  
Signature of Developer or Agent

BY THE ENGINEER:  
I certify that this plan of 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.

F. Denis Light  
Signature of Engineer

DEPARTMENT OF PUBLIC WORKS  
Sheet, Bureau of Highways 4/2/75  
Date

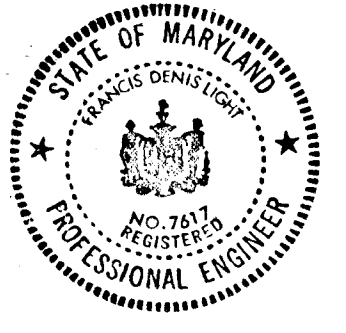
OFFICE OF PLANNING AND ZONING  
Sheet, Division of Land Development and Transportation Planning 3/27/75  
Date



REFERENCE FOR HORIZONTAL & VERTICAL CONTROL:  
Santa Lucia Ave. & STA. 0+00 (HIGHLAND ROAD STA. 8+26.78)  
ELEV. 546.82

PI Sta. 6+95.96  
CURVE DATA  
R = 2640.00  
E = 10.33  
L = 267.77  
S = 2.0  
V = 6.0  
Q = 7.2

OWNER: RUSSELL MASKE  
DEVELOPER: PAUL KOTTIS  
1015 Sockburn Ave.  
Silver Spring, Md.  
20904



Rev. No.	Revision Description
3-20-75	

RICHARD P. BROUKE ASSOCIATES  
Columbia, Maryland

ENGINEERS PLANNERS ARCHITECTS  
Wayne, New Jersey

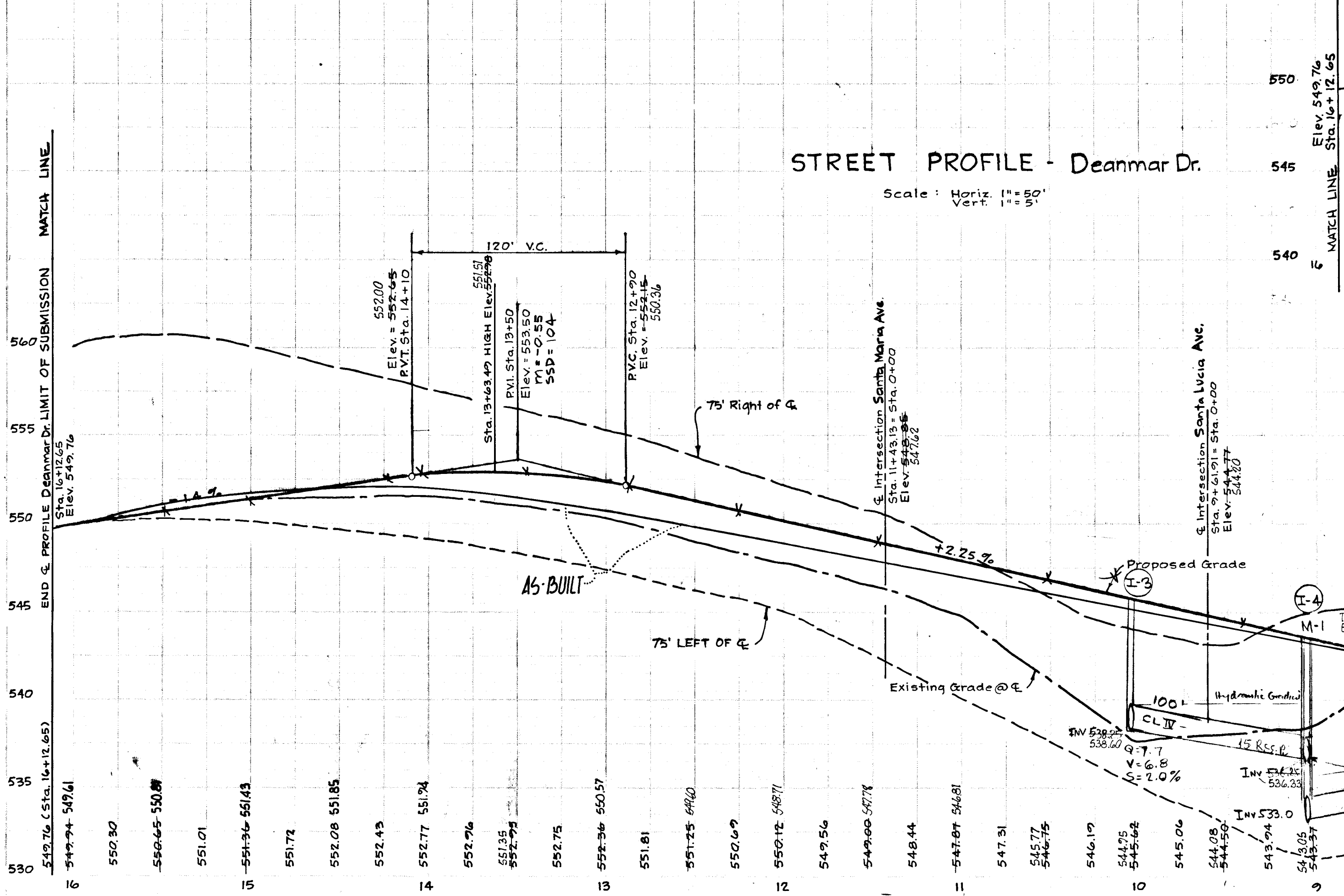
**STREET PLAN AND PROFILE**  
**WHITE OAK ESTATES**

5th Election District  
Howards County, Md.

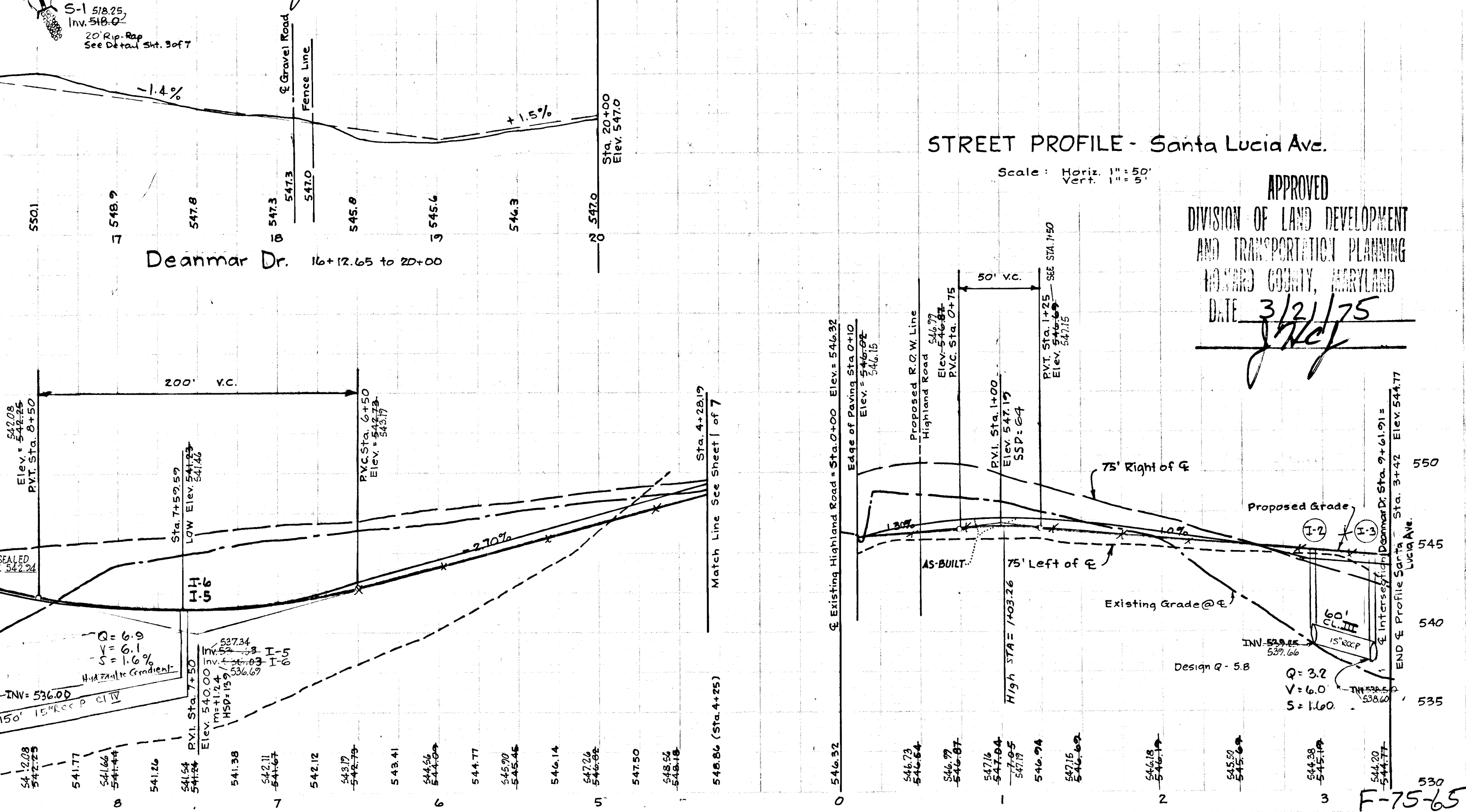
Drawn By FDL  
Scale as shown  
Date 3-6-75  
Proj No 4002

Checked By JCH  
Approved

STREET PROFILE - Deanmar Dr.  
Scale: Horiz 1" = 50'  
Vert 1" = 5'



STREET PROFILE - Santa Lucia Ave.  
Scale: Horiz 1" = 50'  
Vert 1" = 5'



APPROVED  
DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING  
HOWARD COUNTY, MARYLAND  
DATE 3/21/75  
J. Kelly

No.	Type	Location	Top Elev.	Inv. Elev.	Remarks
M-1	Strnd. Manhole	See Sheet 2 of 7	548.22	533.0	Ho. Co. Specs. Dwg. 103 P. 15B
M-2	Strnd. Manhole	" " 3 of 7	519.00	515.55	" " Dwg. 103 P. 15B
I-1	Double "S"	" " 1 of 7	518.00	513.50	Ho. Co. Specs. Dwg. D-102 P. 157
I-2	Strnd. Class "A"	" " 2 of 7	545.39	539.25	Ho. Co. Specs. Dwg. 64A P. 119-A
I-3	Strnd. Class "B"	" " 2 of 7	545.47	538.25	" " Dwg. 64B P. 119-B
I-4	Strnd. Class "B"	" " 2 of 7	543.22	536.25	" " Dwg. 64B P. 119-B
I-5	Strnd. Class "S"	" " 2 of 7	540.86	536.53	" " Dwg. D-98 P. 153
I-6	Strnd. Class "S"	" " 2 of 7	540.86	536.09	" " Dwg. D-98 P. 153
I-7	Strnd. Class "S"	" " 3 of 7	527.70	524.91	Ho. Co. Specs. Dwg. D-98 P. 153
I-8	Strnd. Class "S"	" " 3 of 7	527.23	523.10	" " Dwg. D-98 P. 153
S-1	Strnd. Type "B" Headwall	" " 2 of 7	518.0		Ho. Co. Specs. Dwg. D-48 P. 103
S-2	Strnd. Type "B" Headwall	" " 1 of 7	506.0		Ho. Co. Specs. Dwg. D-48 P. 103
S-3	Strnd. Type "B" Headwall	" " 3 of 7	525.75		Ho. Co. Specs. Dwg. D-48 P. 103
S-4	Strnd. Type "B" Headwall	" " 3 of 7	509.0		Ho. Co. Specs. Dwg. D-48 P. 103

DEPARTMENT OF PUBLIC WORKS  
*[Signature]* 4/2/75  
 Chief, Bureau of Highways Date

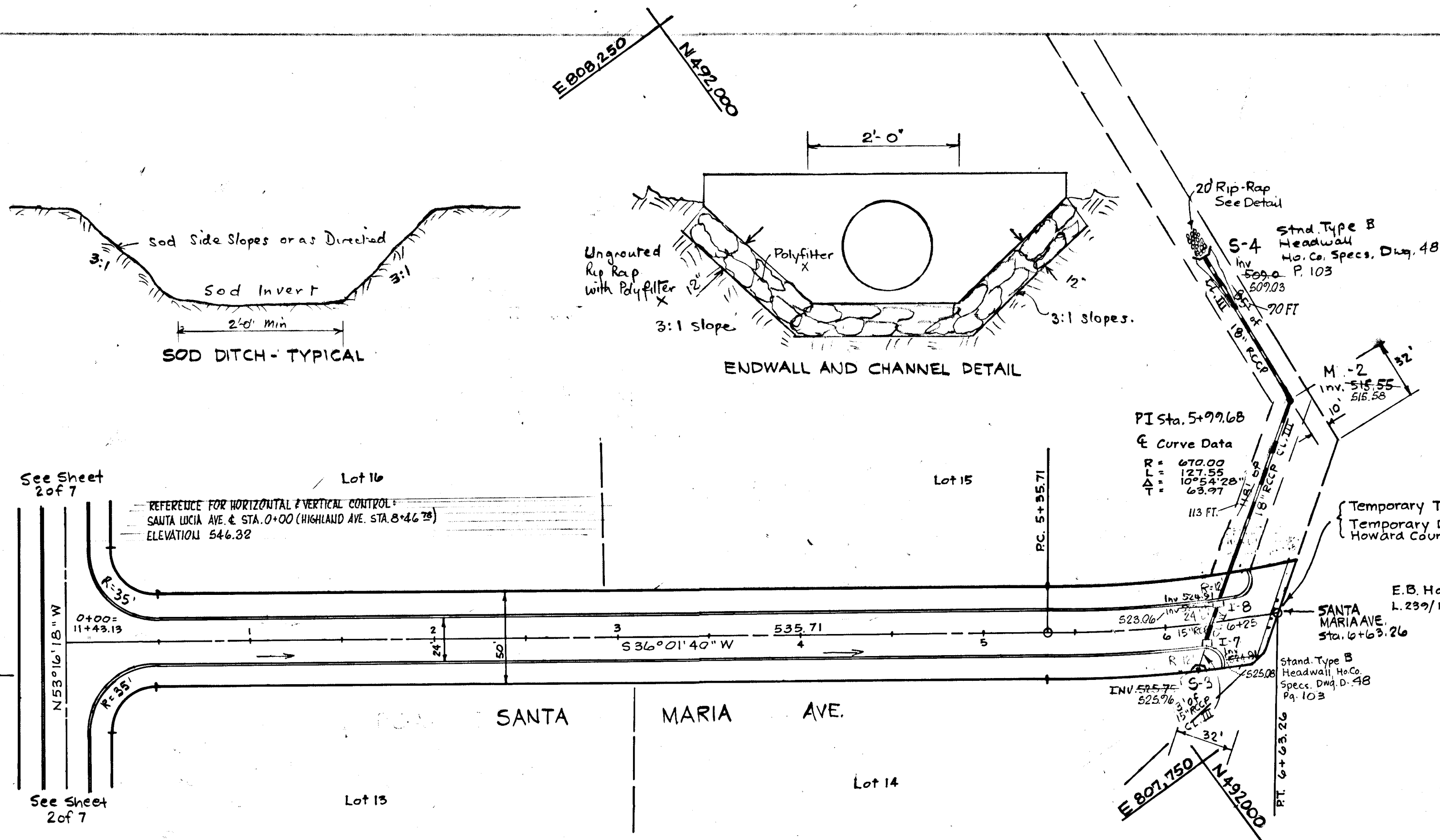
OFFICE OF PLANNING AND ZONING  
*[Signature]* 3/27/75  
 Chief, Division of Land Development and Transportation Planning Date

Reviewed for HOWARD S.C.D. and meets technical requirements  
*[Signature]* 3/24/75  
 Eric U. Herman Date  
 US Soil Conservation Service

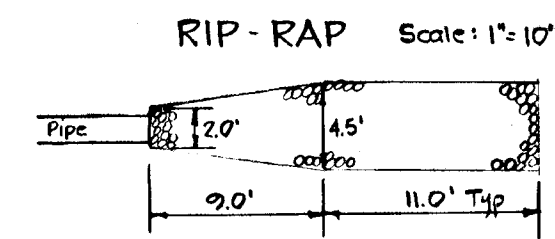
This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District  
 Approved *[Signature]* 3/24/75  
 Howard J. C. [Signature]

BY THE DEVELOPER:  
 I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and also authorize Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District  
*[Signature]* 3-24-75  
 Signature of Developer or Agent Date

BY THE ENGINEER:  
 I certify that this plan of 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]* 3-24-75  
 Signature of Engineer Date



PLAN  
 Scale: 1" = 50'



OWNER: Russell Maske  
 DEVELOPER: Paul Kottis  
 1015 Gadsden Rd.  
 Silver Spring, Md  
 20904

*[Signature]*  
 F. Denis Light #7617



Rev. No.	Rev. Date	Revision Description
3-20-75		

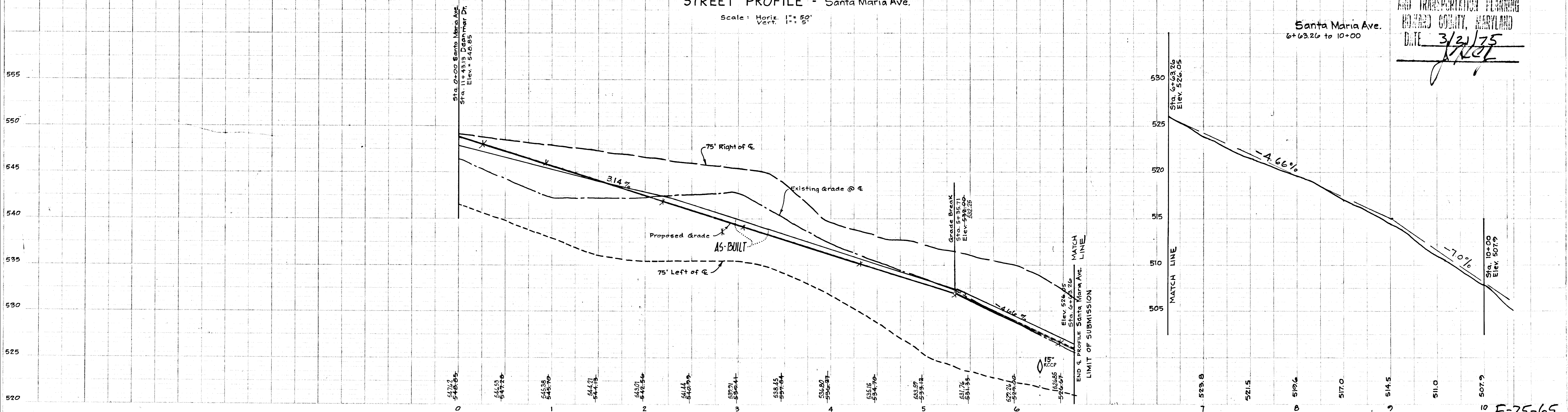
RICHARD P. BROWNE ASSOCIATES  
 ENGINEERS PLANNERS ARCHITECTS  
 Columbia, Maryland Wayne, New Jersey

STREET PLAN AND PROFILE  
 WHITE OAK ESTATES

5th Election District Howard County, Md.

Des. By F.D.L. Scale as shown Dwg. No. 3 of 7  
 Dwn. By M.K. Date 3-6-75 Proj. No.  
 Chk. By J.C.H. Approved

STREET PROFILE - Santa Maria Ave.  
 Scale: Horiz. 1" = 50'  
 Vert. 1" = 5'

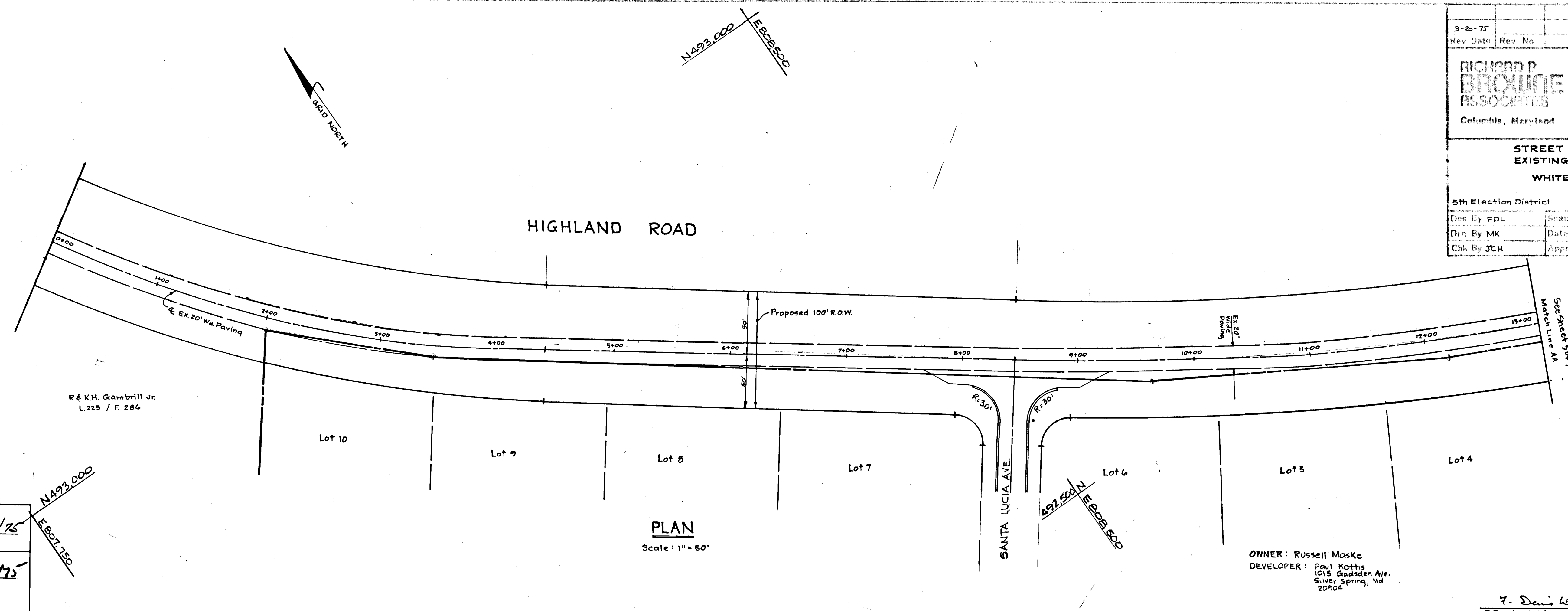


APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 DATE 3/21/75  
*[Signature]*

"AS-BUILT APRIL, 78"

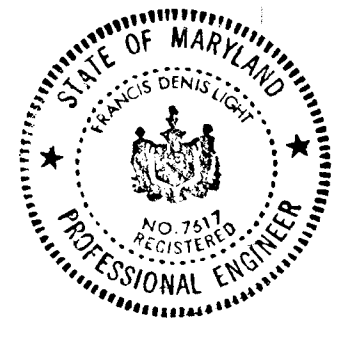
F-75-65

3-26-75		
Rev Date	Rev No	Revision Description
<b>RICHARD P. BROWNE ASSOCIATES</b> Columbia, Maryland		<b>ENGINEERS PLANNERS ARCHITECTS</b> Wayne, New Jersey
<b>STREET PLAN AND PROFILE</b> <b>EXISTING HIGHLAND ROAD</b> <b>WHITE OAK ESTATES</b>		
5th Election District		Howard County, Md.
Des. By FDL	Scale as shown	Draw No. 4 of 7
Drn. By MK	Date 3-6-75	Proj No. 4002
Chk. By JCH	Approved	

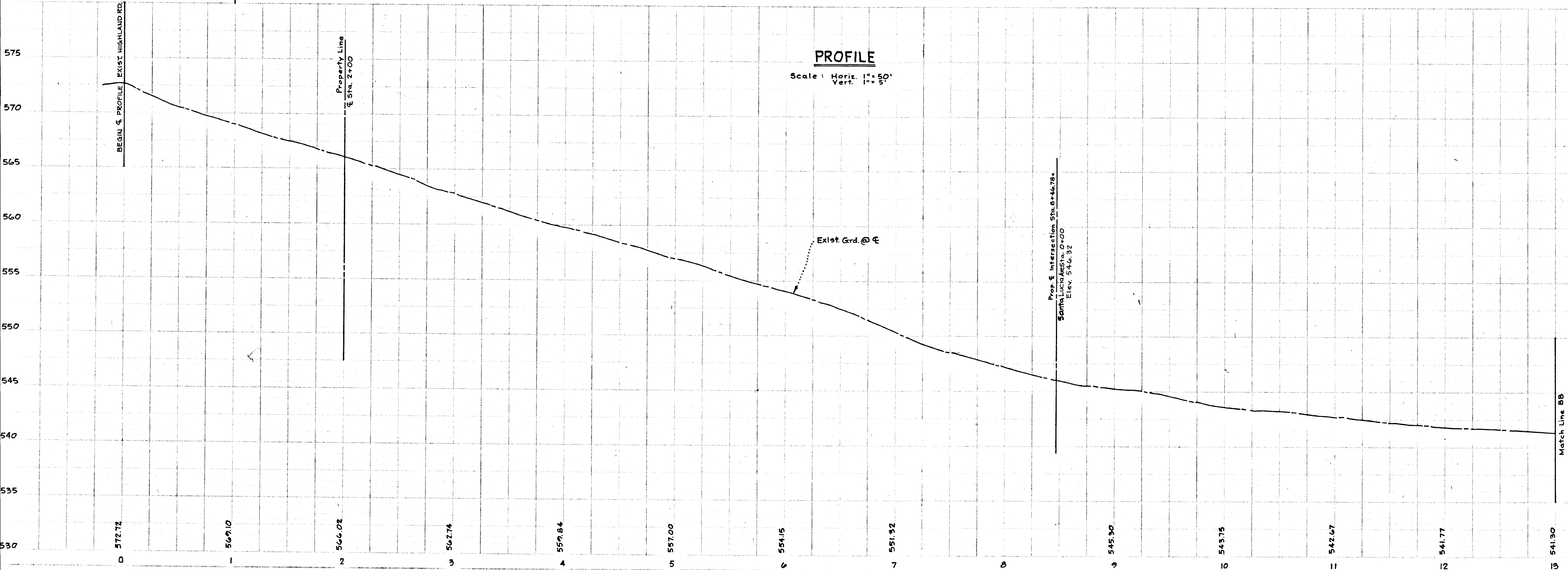


DEPARTMENT OF PUBLIC WORKS  
*S. P. Ireland* 4/2/75  
 Chief, Bureau of Highways Date

OFFICE OF PLANNING AND ZONING  
*J.H. Blum* 3/27/75  
 Chief, Division of Land Development and Transportation Planning Date



*F. Denis Light*  
 F. Denis Light #7617

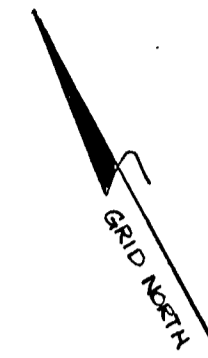


APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 DATE 3/21/75  
*J.H. Blum*

AS-BUILT APRIL, 78

F-75-65

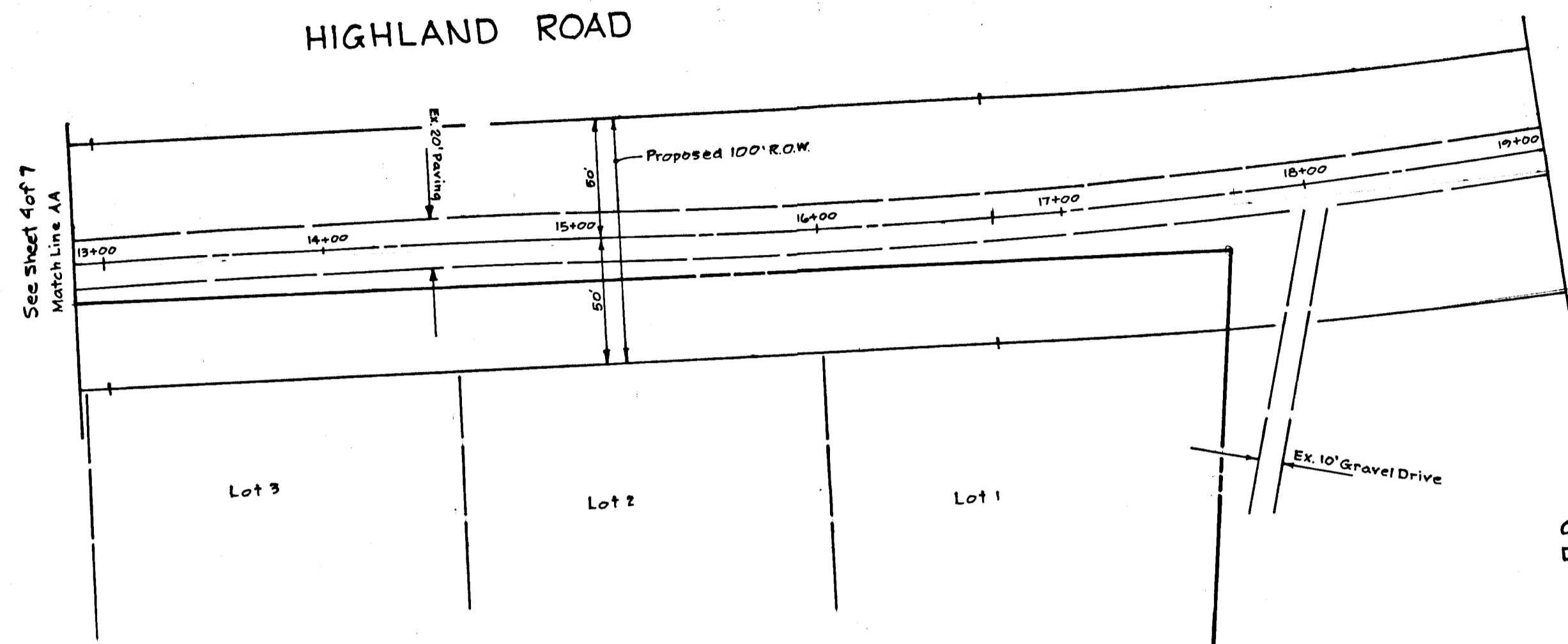
PROFILE SCALE: 1" = 50'  
 PLAN SCALE: 1" = 50'  
 DATE: 3/27/75  
 DRAWN BY: J.H. BLUM  
 CHECKED BY: J.C.H.



N492.500  
E 809.150

N492.500  
E 809.250

### HIGHLAND ROAD



OWNER: Russell Maske  
DEVELOPER: Paul Kottis  
1015 Gadsden Ave.  
Silver Spring, Md.  
20904

DEPARTMENT OF PUBLIC WORKS  
*D. M. McKeon* 4/2/75  
Chief, Bureau of Highways Date

OFFICE OF PLANNING AND ZONING  
*J. H. Clawson* 3/27/75  
Chief, Division of Land Development and Transportation Planning Date

**PLAN**  
Scale: 1" = 50'

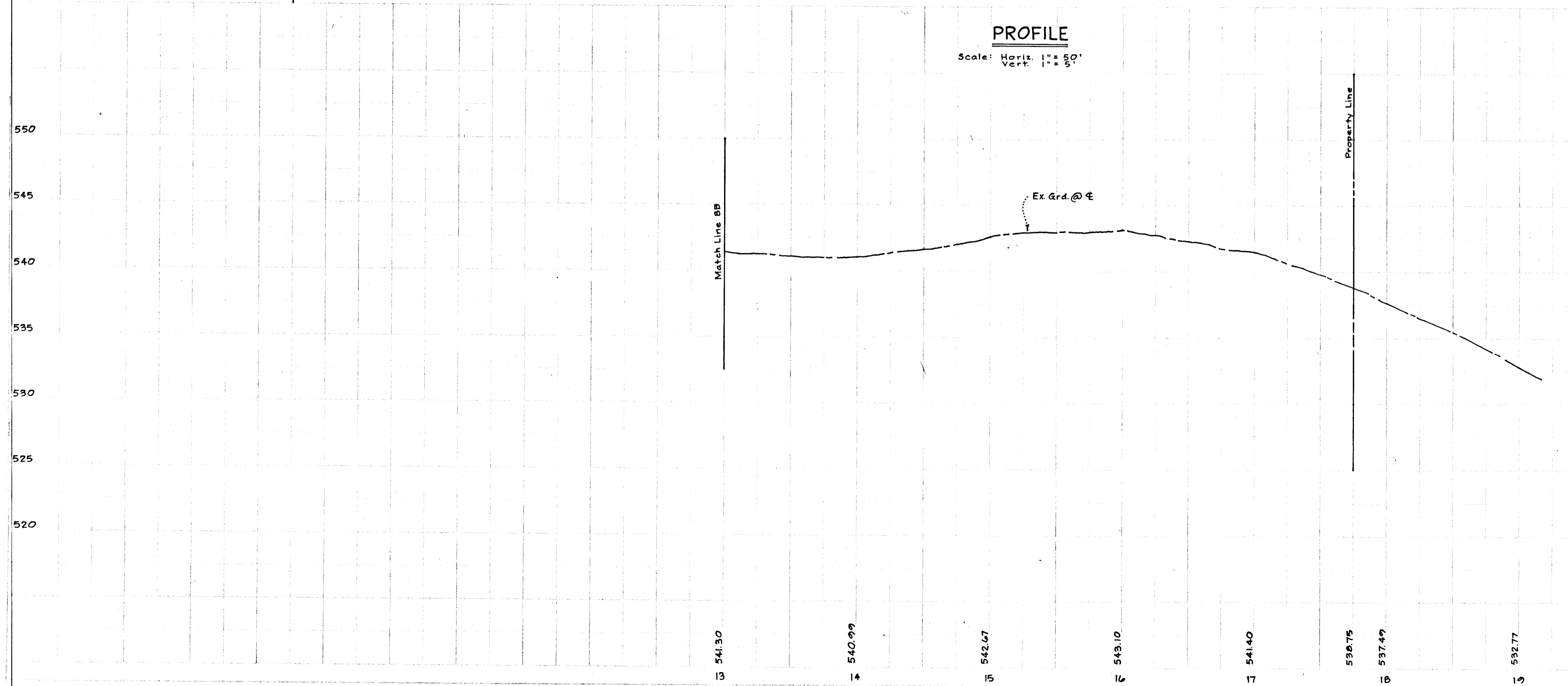
N492.000  
E 809.250



*F. Denis Light*  
F Denis Light # 7617

3-20-75	Rev No	Revision Description
<b>RICHARD P. BROWNE ASSOCIATES</b> Columbia, Maryland		<b>ENGINEERS PLANNERS ARCHITECTS</b> Wayne, New Jersey
<b>STREET PLAN AND PROFILE</b> EXISTING HIGHLAND ROAD WHITE OAK ESTATES		
5th Election District		Howard County, Md.
Des. By FDL	Scale as shown	Dwg No 5 of 7
Drn. By MK	Date 3-6-75	Proj No 4002
Chk. By JCH	Approved	

**PROFILE**  
Scale: Horiz. 1" = 50'  
Vert. 1" = 50'



APPROVED  
DIVISION OF LAND DEVELOPMENT  
AND TRANSPORTATION PLANNING  
HOWARD COUNTY, MARYLAND  
DATE 3/21/75  
*J. H. Clawson*

#457

F-75-65

AS-BUILT APRIL 78'

DEPARTMENT OF PUBLIC WORKS  
*S. H. Mehlend* 4/2/75  
 Chief, Bureau of Highways Date

OFFICE OF PLANNING AND ZONING  
*J. H. Churns* 3/27/75  
 Chief, Division of Land Development Date  
 and Transportation Planning

N 498,000  
 E 809,000

Grid North

E 809,000  
 N 499,000

N 498,000  
 E 807,500

APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 DATE 3/21/75  
*J. H. Churns*

DEVELOPER:  
 Mr. Paul Kottis  
 1015 Gadsden Ave.  
 Silver Spring, Md. 20904  
 Deed Reference:  
 Liber 371 Folio 484

OWNER:  
 Mr. Russell Maske

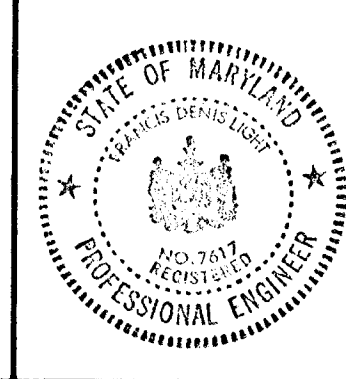
Rev. Date	Rev. No.	Revision Description
3-20-75		
Rev Date	Rev No.	Revision Description

**RICHARD P. BROWNE ASSOCIATES** ENGINEERS SURVEYORS PLANNERS ARCHITECTS  
 PEACHTREE CITY, GEORGIA  
 COLUMBIA, MD. WAYNE, N. J.

**DRAINAGE AREA MAP**  
 WHITE OAK ESTATES

5th Election District Howard County, Md.

Des. By FDL	Scale 1" = 100'	Dwg. No. 6 of 7
Drn. By MK	Date 3-6-75	Proj. No. 4002
Chk. By JCH	Approved	



J. Denis Light  
 F. Denis Light #7617

AS-BUILT APRIL, 78

F-75-65

#457

**GENERAL NOTES:**

1. Diversion Terraces (or Furrows) will be utilized to reduce slope lengths where possible during land grading operations.
2. Permanent Vegetation will be established as rapidly as possible on all exposed faces of cuts and fills and other areas following grading operations.
3. Temporary Vegetation will be applied upon completion of rough grading on all other disturbed areas where such areas will not be built on within a period of ninety (90) days.
4. Storm Sewer inlets located below high flow producing areas will be protected by the use of adequate silt traps during construction.

**SEDIMENT AND SOIL EROSION CONTROL NOTES:**

1. 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.
2. All Sediment Measures shall be undertaken in strict accordance with the approved plans and the criteria and specifications approved by the Howard County Soil Conservation District.
3. All Seeding on Sediment Control Facilities to be done in accordance with the Howard County Soil Conservation District, see Temporary Seeding Specifications on this sheet. Seeding to be done immediately upon construction.
4. Periodic Inspection and Maintenance of all Sediment Control Structures must be provided to insure the intended purpose is accomplished.
5. Contractor installing the above shall obtain and follow the Standards and Specifications for soil erosion in urban areas as disturbed by the Howard Co. Soil Conservation District.
6. All Sediment Control Measures are to remain in place until permission for their removal has been obtained from the Howard County Soil Conservation District.
7. Notify the Howard County Soil Conservation District Office prior to starting any work. (465-5000 ext. 328)
8. On site inspection and Maintenance of all Sediment Control Measures including cleanout of all Sediment Traps and Berms 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.

**MULCHING:**

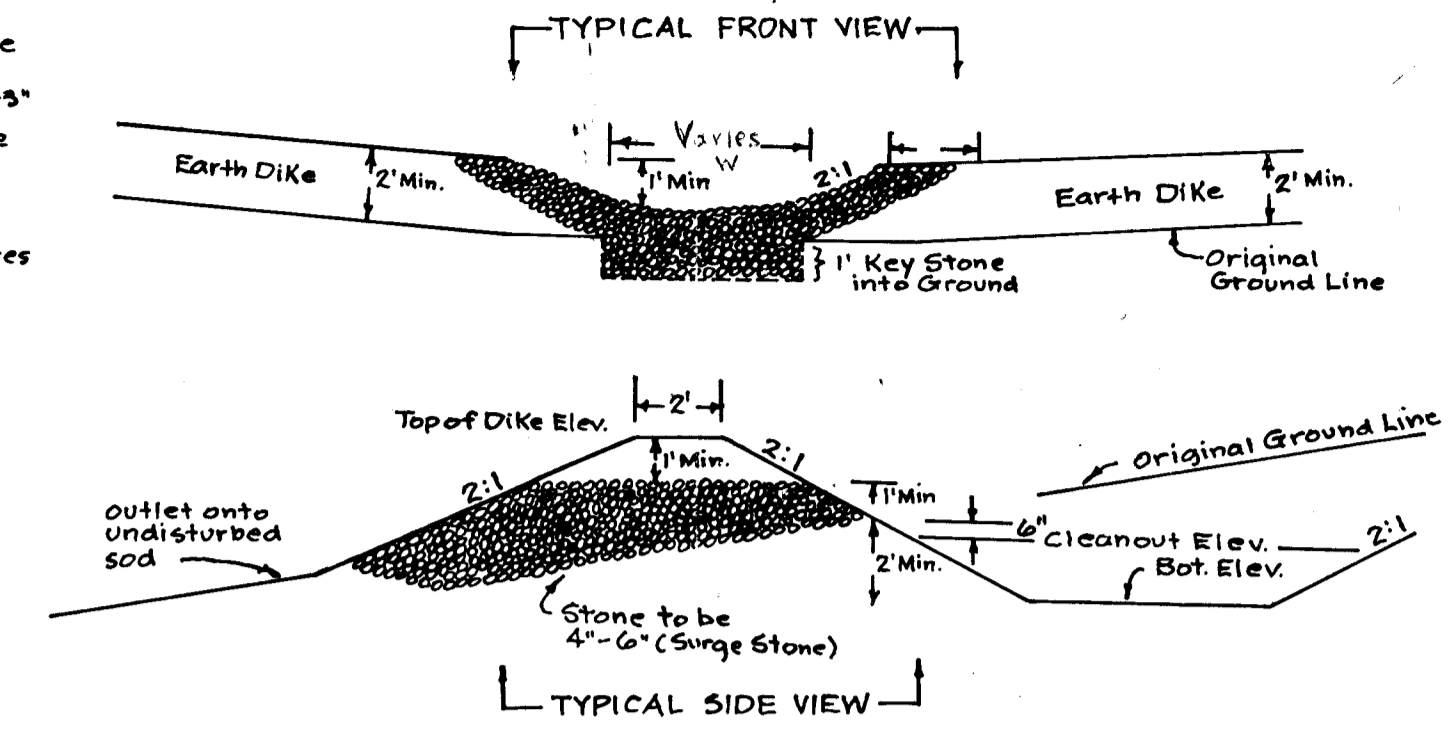
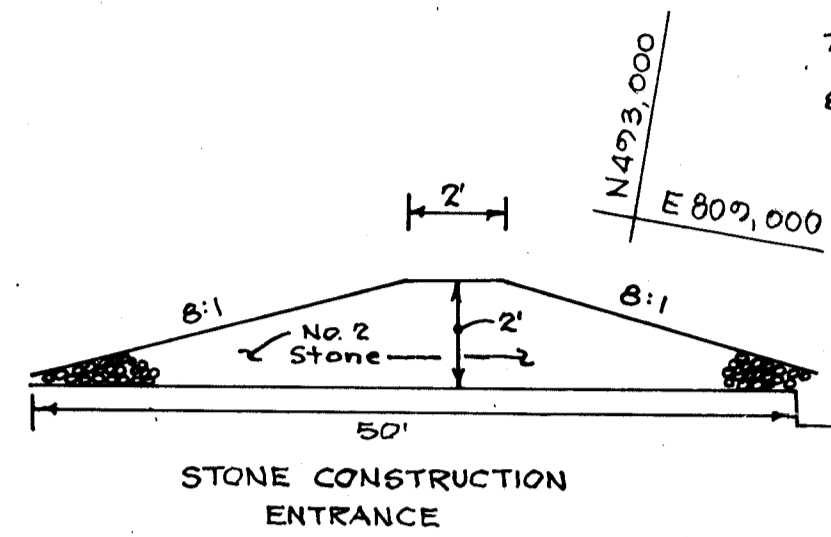
1. Mulch materials should be unweathered, uncombed, small grain straw spread at the rate of 1 1/2 to 2 tons per acre.
2. Spread uniformly by hand or mechanically to a depth of at least 75% of the soil surface will be covered. For uniform distribution of hand spread mulch divide area into approximately 1,000 square foot sections and place 1 bale approximately 100 sq. ft. match for distribution within each section approximately 65-100 lb. bales will be required.

**TEMPORARY SEEDING SPECIFICATIONS:**

1. Apply ground agricultural limestone at the rate of two tons per acre.
2. Apply a minimum of 500 lbs per acre of 10-20-10 or equivalent fertilizer.
3. Incorporate both lime and fertilizer into the top 3-4" of surface soil by disking or other suitable means.
4. Seed one of the following mixtures at the rate shown per acre (August 1 to November 1)  
50 lbs. Italian rye grass or 25 lbs. rye (small grain) or 5 lbs. winter oats

**PERMANENT SEEDING SPECIFICATIONS:**

- Before seeding apply the following per acre:
- 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
- Match as stated under mulching notes this sheet.
- Slopes steeper than 3:1 in lawns.
- Lime and fertilizer as above. Incorporate as above. Seed to 60# Kentucky Blue Grass and 60# Red Fescue. Match as above.



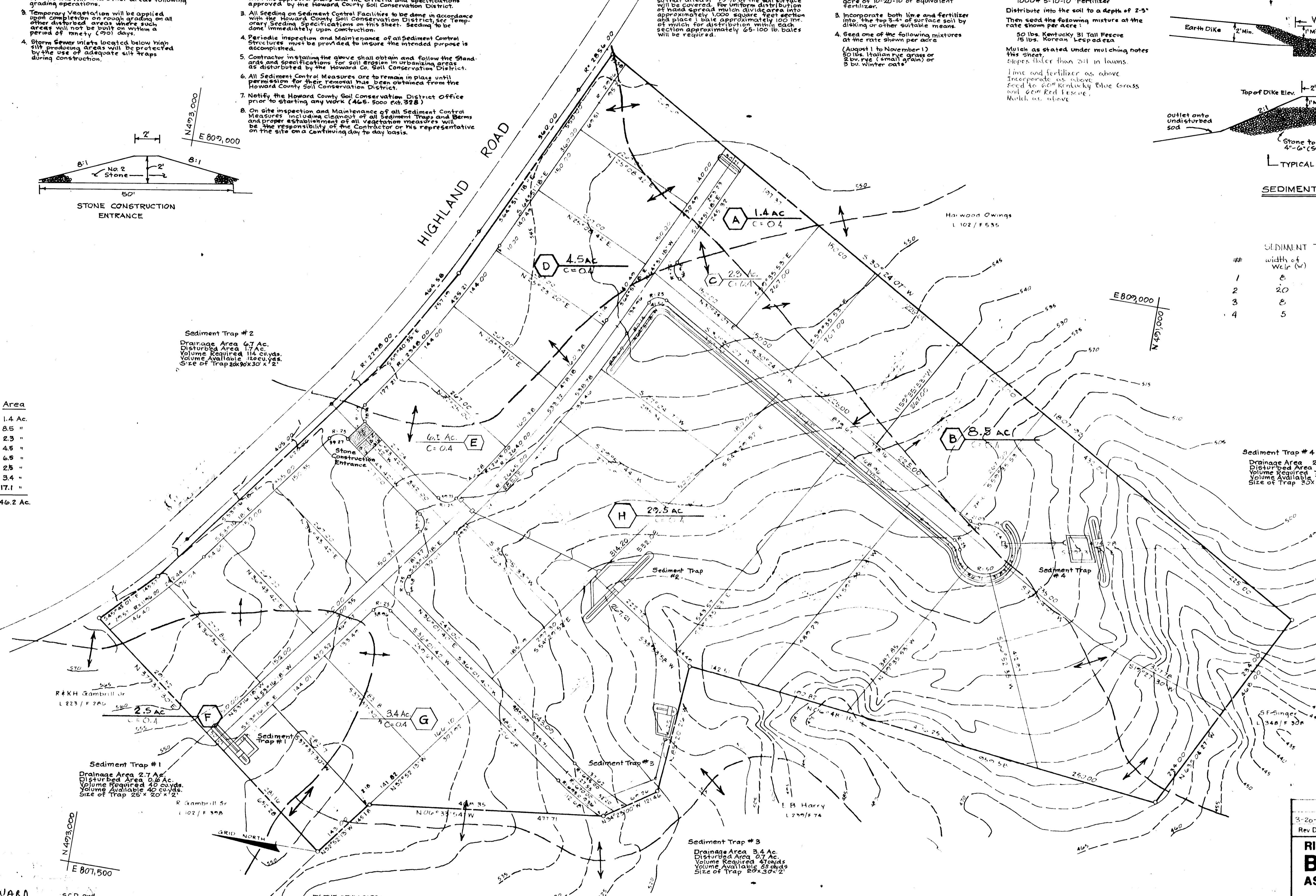
**SEDIMENT TRAP DETAILS**

**SEDIMENT TRAP TABLE**

#	width of Weir (ft)	Total Length of Weir plus Projection (ft)
1	8	16
2	20	28
3	8	16
4	5	13

Parcel	Area
A	1.4 Ac.
B	8.5 "
C	2.3 "
D	4.5 "
E	6.5 "
F	2.5 "
G	3.4 "
H	17.1 "
<b>TOTAL AREA</b>	<b>46.2 Ac.</b>

Total Drainage Areas - 15.1 Ac.  
Total Disturbed Areas - 4.1 Ac.  
Acres Stabilized - 4.1 Ac.  
Remainder - 11.0 Ac.



APPROVED  
DIVISION OF LAND DEVELOPMENT  
AND TRANSPORTATION PLANNING  
HOWARD COUNTY, MARYLAND  
DATE 3/21/75  
*[Signature]*

OWNER:  
Russell Maske  
DEVELOPER:  
Mr. Paul Kottig  
1015 Gadsden Ave  
Silver Spring, Md 20904  
Deed Reference:  
Liber 400 Folio 95  
Tel. 421-9433

Reviewed for HOWARD S.C.D. and meets technical requirements.  
*[Signature]* 3/24/75  
Signature Date  
U.S. Soil Conservation Service

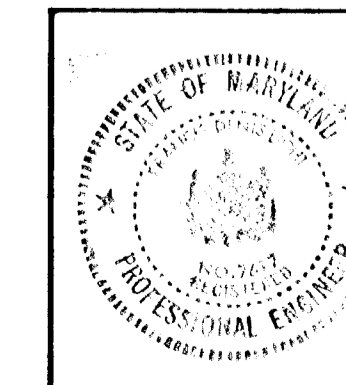
This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.  
*[Signature]* 3/24/75  
Approved Date  
Howard S.C.D.

BY THE DEVELOPER:  
I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and also authorize periodic on-site inspection by the Howard 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.  
*[Signature]* 3/20/75  
Signature of Developer Date

BY THE ENGINEER:  
I certify that this plan of 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]* 3-10-75  
Signature of Engineer Date

DEPARTMENT OF PUBLIC WORKS  
*[Signature]* 4/1/75  
Chief, Bureau of Highways Date  
OFFICE OF PLANNING AND ZONING  
*[Signature]*  
Chief, Division of Land Development and Transportation Planning Date

*[Signature]* 3-10-75  
F. Denis Light Date  
#7617



Rev. Date	Rev. No.	Revision Description
3-20-75		

**RICHARD P. BROWNE ASSOCIATES**  
PEACHTREE CITY, GEORGIA  
COLUMBIA, MD.

**ENGINEERS SURVEYORS PLANNERS ARCHITECTS**  
WAYNE, N. J.

SEDIMENT CONTROL  
**WHITE OAK ESTATES**

5th Election District  
Howard County, Md.

Des. By FDL Scale 1" = 100' Dwg. No. 7 of 7  
Dwn. By MK Date 3-6-75 Proj. No. 4002  
Chk. By Approved