

Normal Cul-De-Sac  
Curve Data

X = 8.45	Y = 2.55	L.P. = 259.69		
Curve #3	2	4 & 6	5	
Δ	48°11'23"	27°22'46"	51°11'43"	282°23'26"
R	25.00'	50.00'	35.00'	40.00'
L	21.03'	241.19'	31.27'	197.15'
T	11.18'	-	16.77'	-
L.C.	20.41'	-	30.24'	-
E = 40' F = 50' G = 10' A = 24' or 28' W = 50'				

ELEVATION METAL PIPES  
 # G1 = 573.86 # G3 = 574.10  
 # G2 = 575.90 # G4 = 572.89  
 ELEVATION CONC. MON. # 66 = 569.45

RADIUS OF AS BUILT 7  
 PAVING @ CUL DE SAC = 80.00' 8

CONC. MON. LOCATION  
 NO SCALE  
 POLE B.G.# E # 334369 = 107.70'  
 METAL STREET SIGN = 76.45'  
 N/C IN MAC. = 14.80'  
 POLE B.G.# E 539055 = 40.62'

Plan Scale  
 1" = 50'

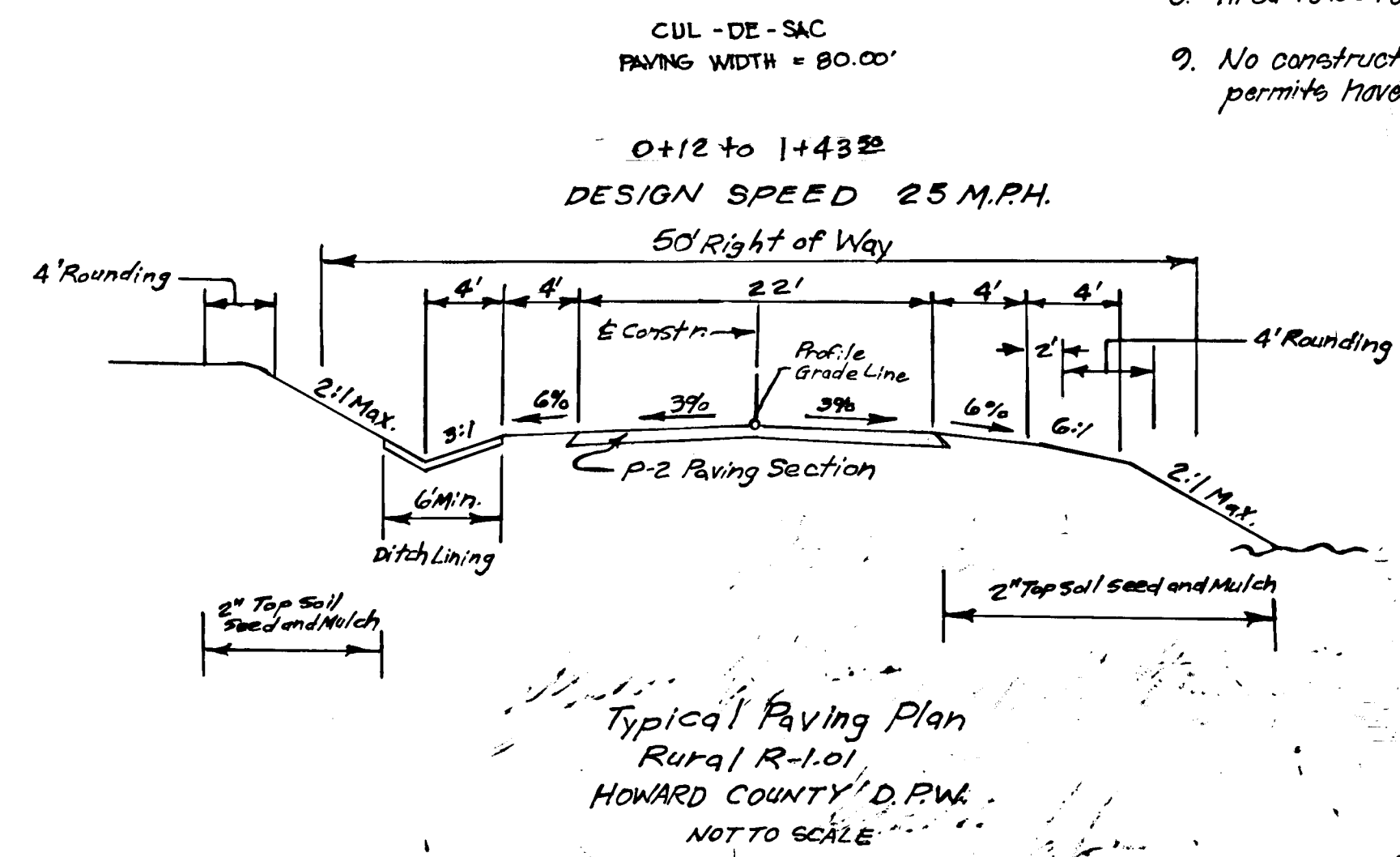
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Chief, Land Development Division  
*Howard L. F.* 3-24-88  
 Chief, Bureau of Highways  
*Graville M. McLeod* 3/25/88  
 Chief, Bureau of Engineering  
*Howard L. F.* 3-25-88

APPROVED: OFFICE OF PLANNING AND ZONING  
 Chief, Division of Community Planning and Land Development  
*James R. Smith* 4/4/88

- GENERAL NOTES
- All construction shall be in accordance with the Standard Specifications and Standard Details of Howard County Department of Public Works, and the Howard County Road Code.
  - Construction is For "Streets Only".
  - Contour Interval 2'; Elevations shown are based upon Howard County Datum.
  - Lots are to be served with private water and sewer systems (Well and septic tank).
  - Total Disturbed Area = 9.59 Ac. Total Undisturbed Area = 56.95 Ac.
  - Topography from field survey by J.E. Clark, Assoc.
  - Predominant soil types - Glenelg Loam, Chester Bilt Loam.
  - Area to be Paved: 1.04 Ac.
  - No construction may start until the proper permits have been issued.

**ANGUS COURT**  
 Dunfarmin Estates  
 Clarksville  
 Tax Map 34 Parcel 292  
 Fifth Election District  
 Howard County, Maryland  
 Owners: S.T. Nichols Jr. and James S. Nichols  
 13938 Highland Road Clarksville, Maryland 21025

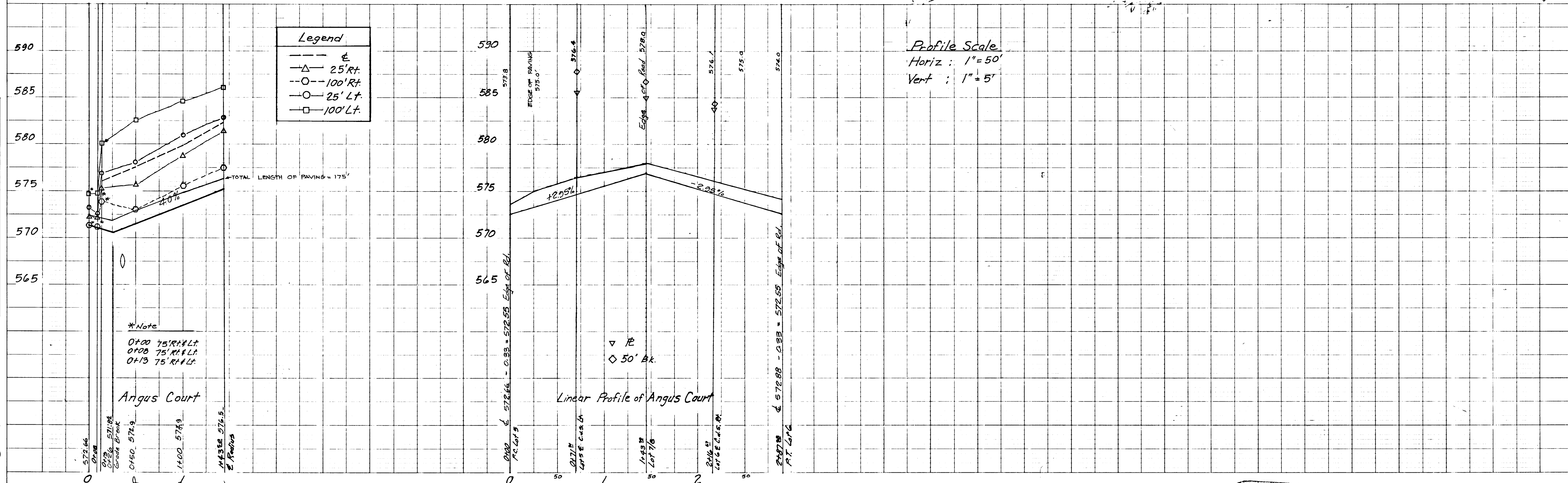
Prepared by The J.E. CLARK Company  
 P.O. Box 147 Laurel, Maryland 20707



ALL HORIZONTAL AND VERTICAL CONTROL SHOWN HEREON  
 WAS TAKEN FROM HO. CO. CONTROL STATIONS  
 NR 2735002, 2635002 AND 2635003R

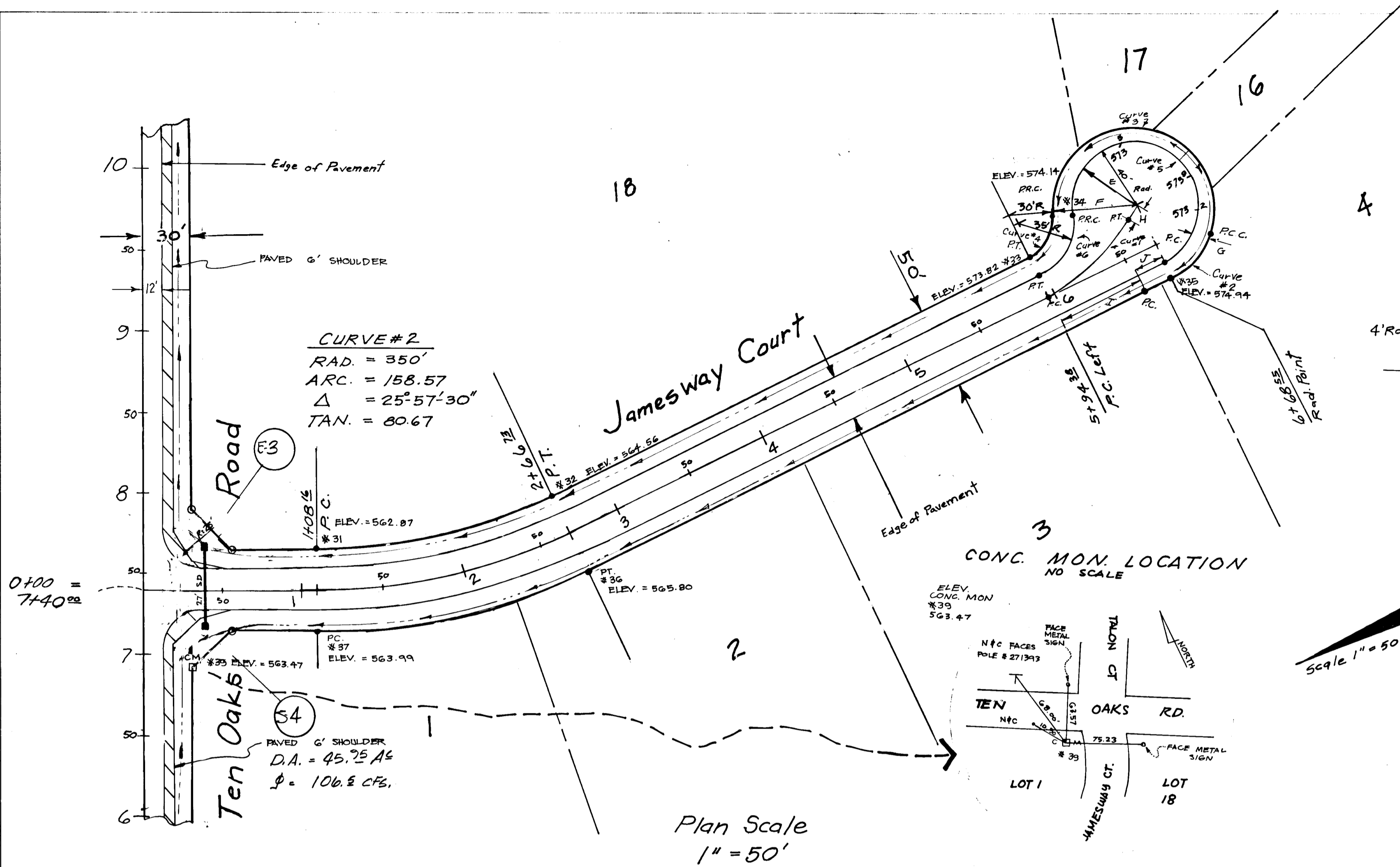
PLAN  
 SURVEYED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOTE BOOK ALIGNED CHECKED: \_\_\_\_\_  
 FT. OF WAY CHECKED: \_\_\_\_\_  
 No. \_\_\_\_\_

PROFILE  
 SURVEYED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOTE BOOK GRADES CHECKED: \_\_\_\_\_  
 B.M.'S NOTED: \_\_\_\_\_  
 STRUCTURE NOTATIONS CHECKED: \_\_\_\_\_  
 No. \_\_\_\_\_



1357

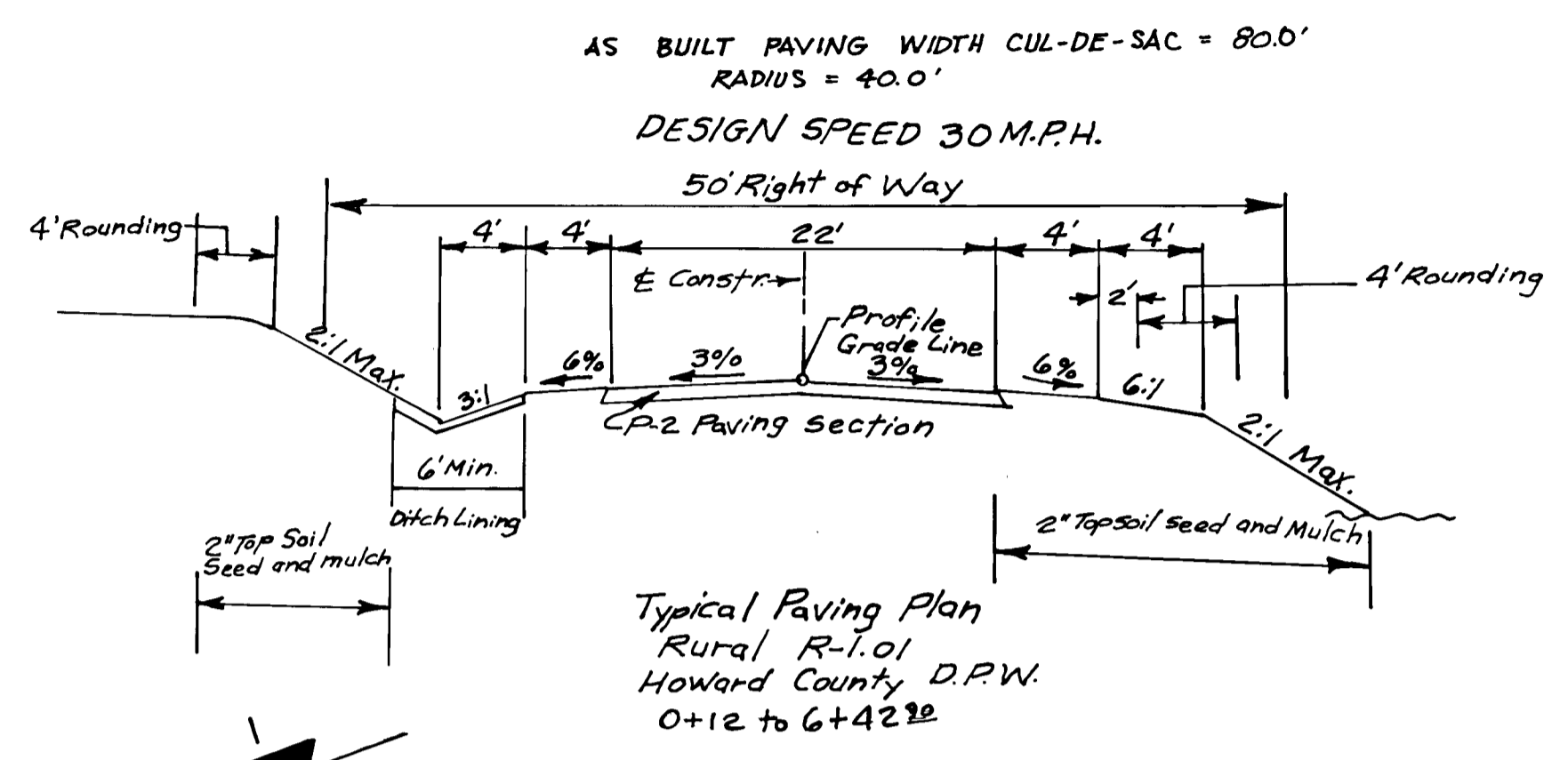
AS-BUILT



Offset Cul-De-Sac  
Curve Data

Curve	1	2	3	4	5	6
Δ	37°39'45"	19°56'55"	232°59'38"	72°56'32"	255°19'30"	75°19'30"
R	106.37'	100.00'	50.00'	25.00'	40.00'	35.00'
L	63.92'	34.82'	203.33'	31.83'	178.25'	46.01'
T	36.28'	17.59'	-	18.48'	-	27.01'
LC	68.67'	34.64'	-	29.72'	-	42.77'

E=40' F=50' G=10' H=9.55' I=55.43' J=17.06' RW=50' A=24



**JAMESWAY COURT**  
 Dunfarmin Estates  
 Clarksville  
 Tax Map 34 Parcel 292  
 Fifth Election District  
 Howard County Maryland  
 Owners: S.T. Nichols Jr and James S. Nichols  
 13938 Highland Road Clarksville, Maryland 21025

Prepared by The J.E. CLARK Company  
 P.O. Box 147 Laurel, Maryland 20707

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

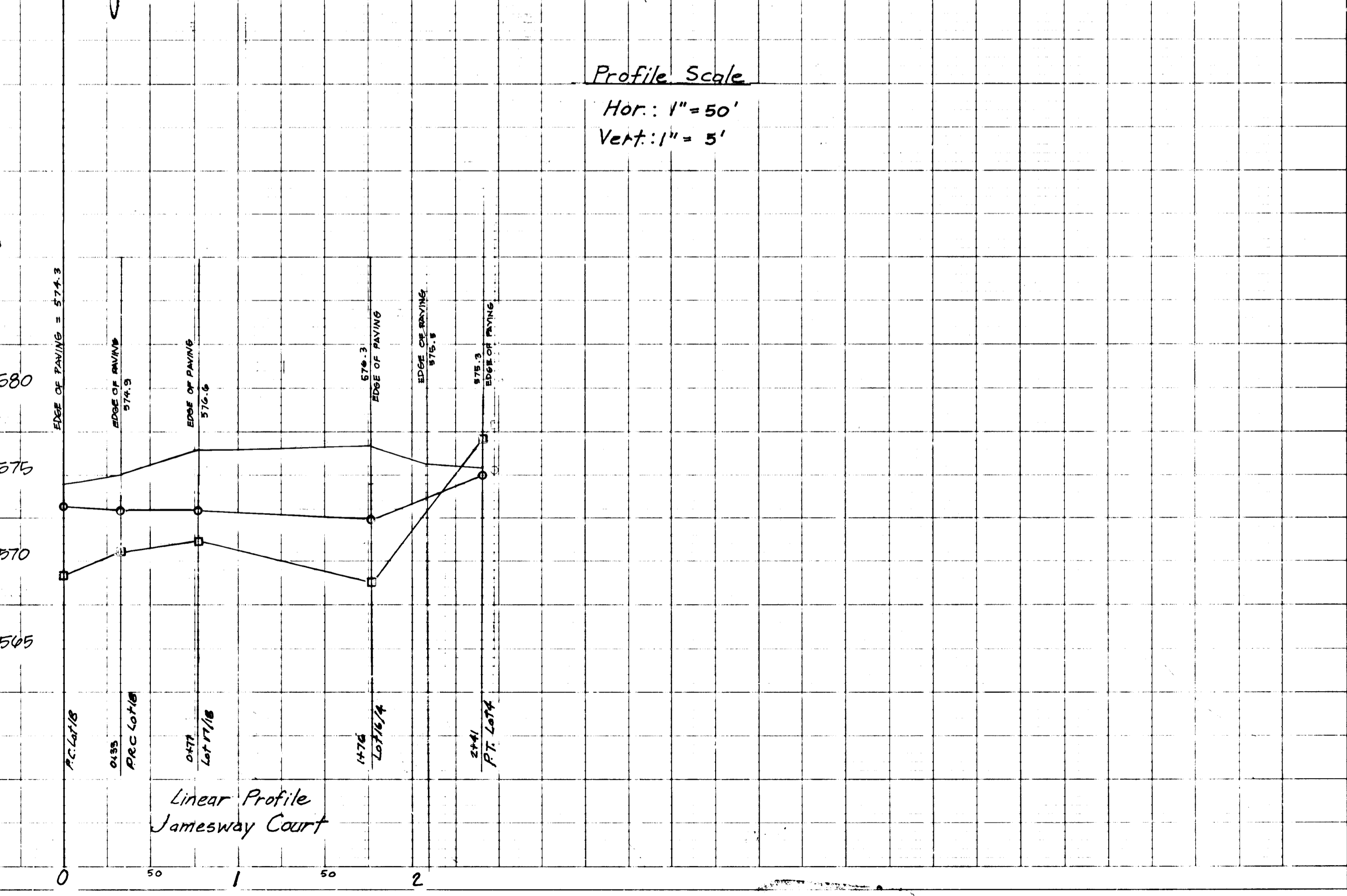
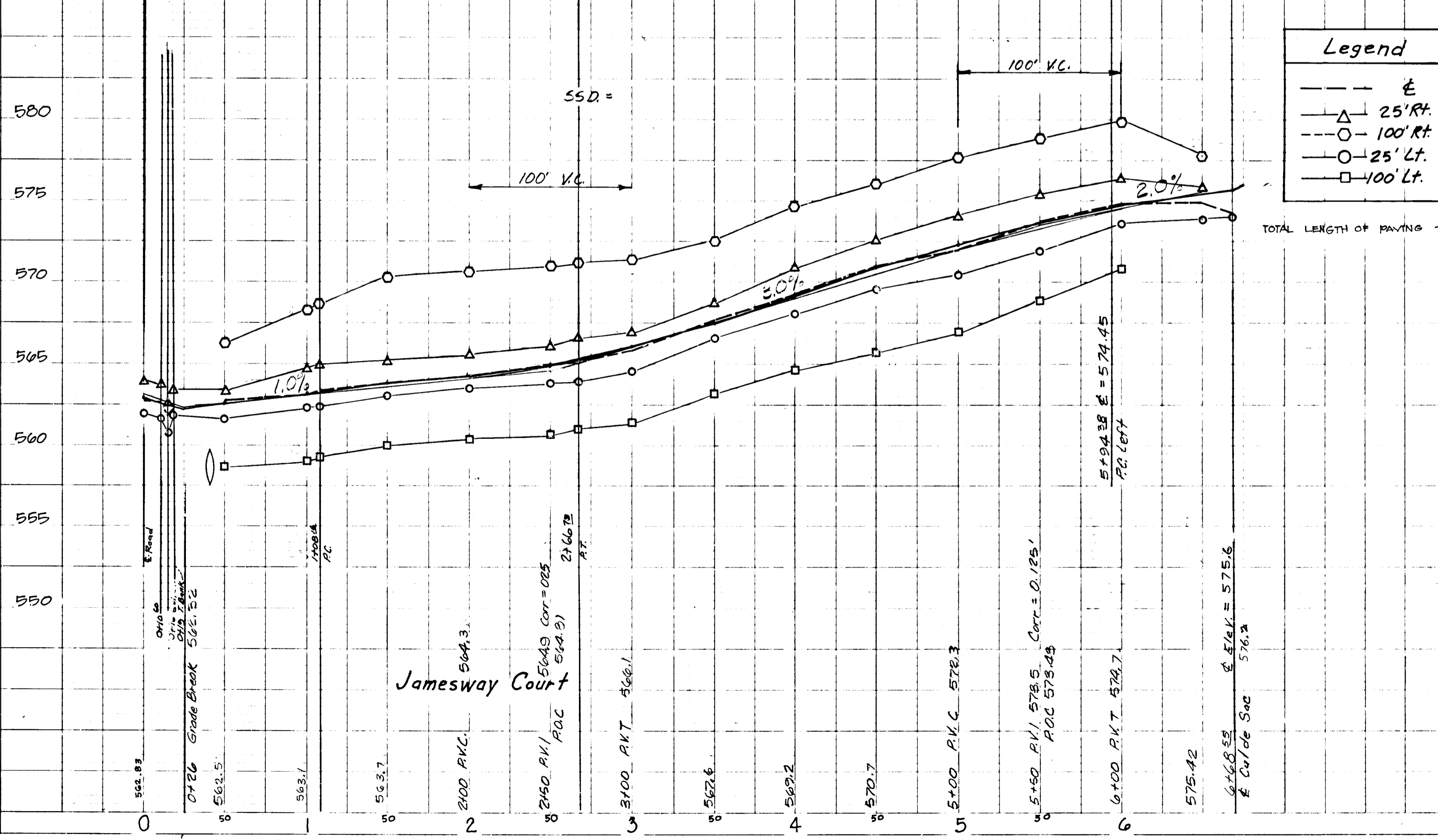
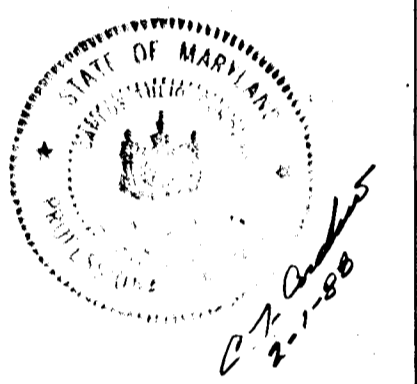
*Michael J. ...* 3-27-88  
 Chief, Land Development Division Date

*Travis W. ...* 3/25/88  
 Chief, Bureau of Highways Date

*Michael J. ...* 3/28/88  
 Chief, Bureau of Engineering Date

APPROVED: OFFICE OF PLANNING AND ZONING

*James S. ...* 4/4/88  
 Chief, Division of Community Planning and Land Development Date



1351

DESIGN SPEED 50 M.P.H.

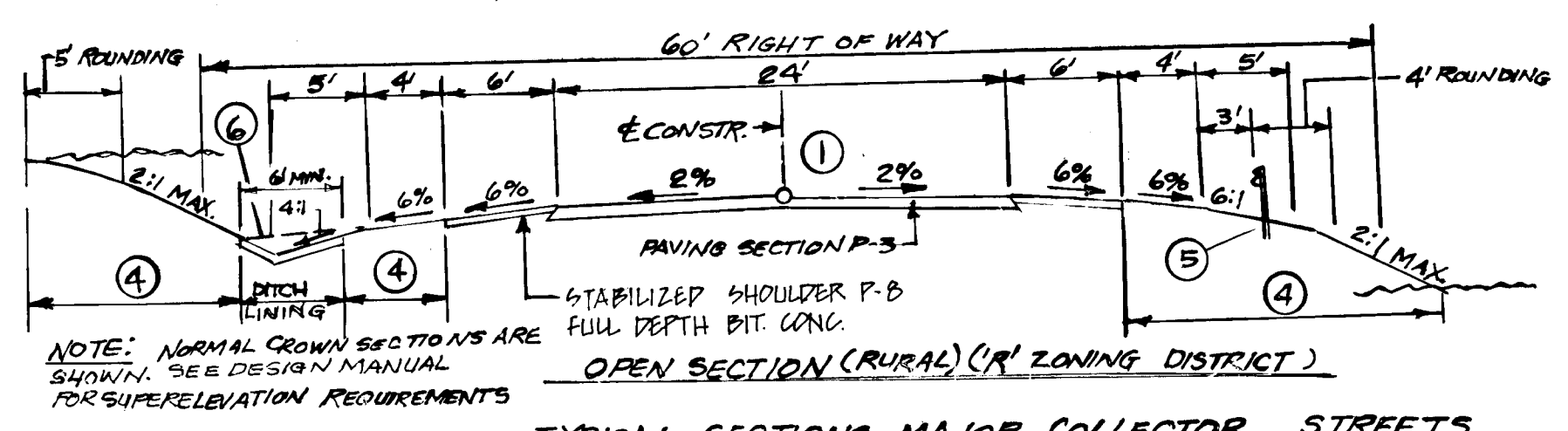
9-27-88 REV. STORM DRAIN CHANGE BY JEL

APPROVED OFFICE OF PLANNING AND ZONING

*Approved* 4/4/88  
 Officer, Division of Community Planning and Land Development

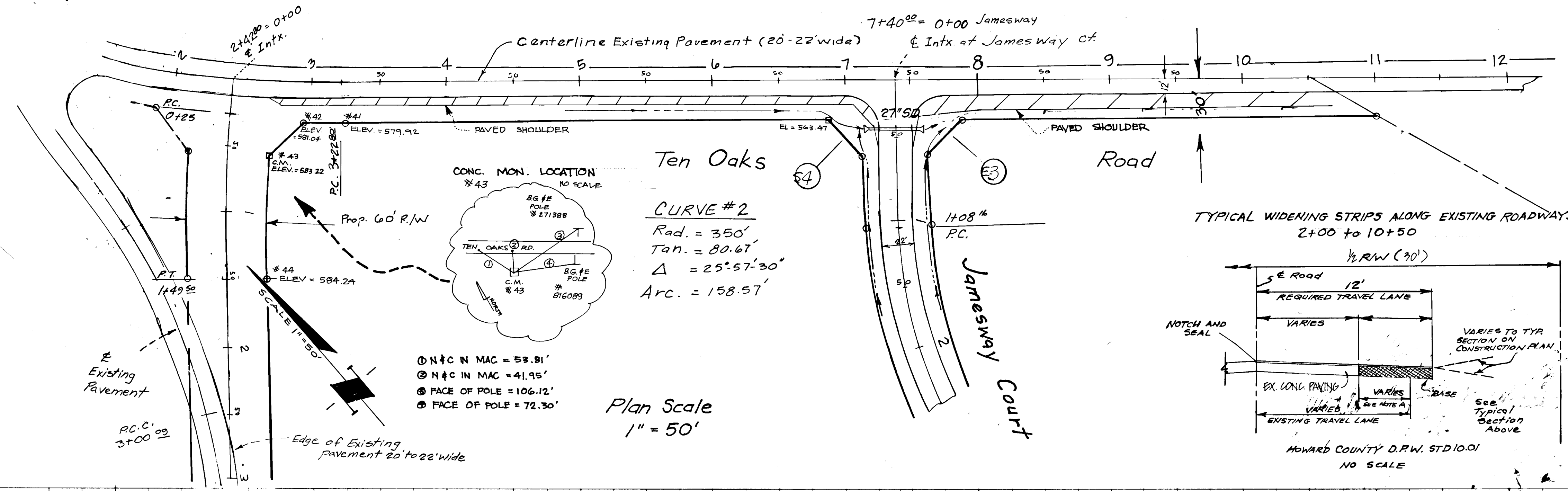
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Chief, Land Development Division 3-21-88  
 Chief, Bureau of Highways 3-25-88  
 Chief, Bureau of Engineering 3-20-88

CURVE #  
 Rad. = 600.00'  
 Arc. = 80.58'  
 $\Delta = 7^{\circ}41'44''$   
 Tan. = 40.35'

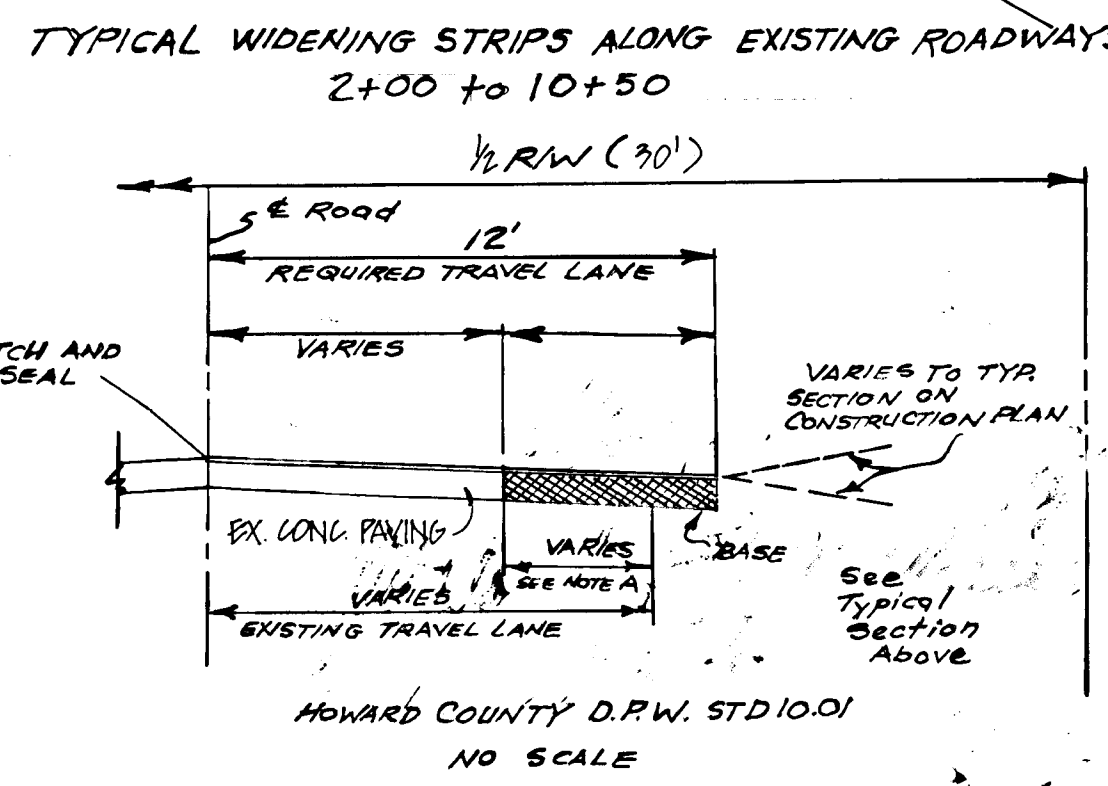


- 1 PROFILE GRADE LINE P.G.L. SEE DESIGN MANUAL
- 2 STD. COMB. CURB & GUTTER.
- 3 4" CONCRETE SIDEWALK AS REQUIRED BY SUBDIVISION REGULATIONS.
- 4 INDICATES 2" TOPSOIL, SEED AND MULCH.
- 5 GUARDRAIL WHERE REQUIRED BY THE DESIGN MANUAL.
- 6 DITCH CROSS SECTION SLOPE MAY BE FLATTENED TO PROVIDE A SWALE AT OR NEAR THE CREST OF VERTICAL CURVES WHERE QUANTITY OF SWALE FLOW IS SMALL AS APPROVED BY D.R.W.

PLAN SURVEYED BY DATE  
 NOTE BOOK ADJUSTMENT CHECKED  
 ST. OF WAY CHECKED  
 No.

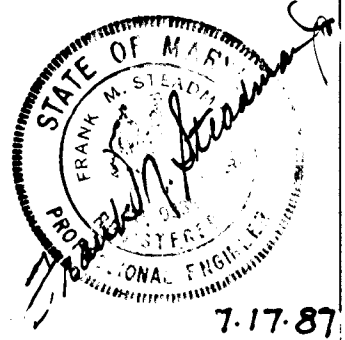


- 1 N+C IN MAC = 53.81'
- 2 N+C IN MAC = 41.95'
- 3 FACE OF POLE = 106.12'
- 4 FACE OF POLE = 72.30'

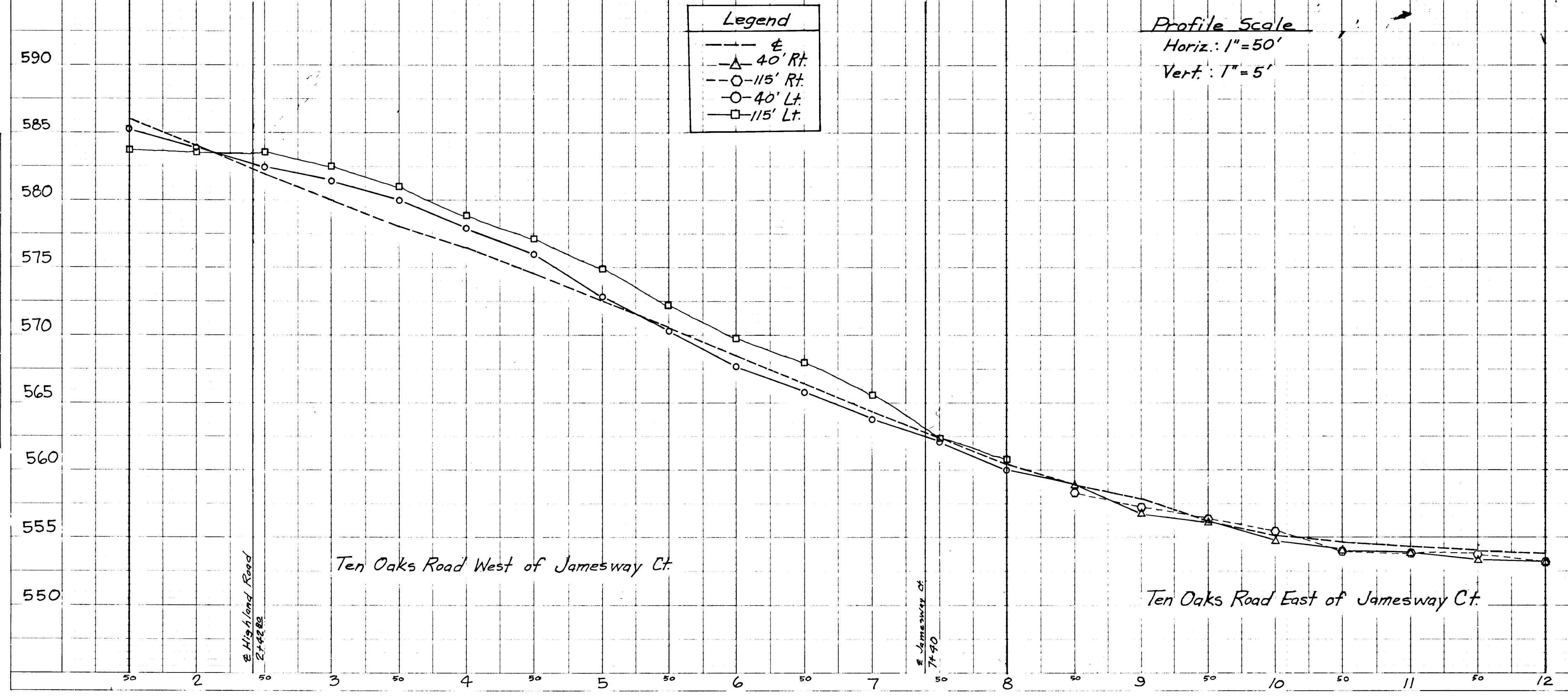


NOTE: When existing travel lane is less than the required 12' lane Contractor shall provide P-8 pavement (full depth bit conc.) from edge of ex pavement to 18' from q.

Prepared by The J.E. CLARK Company  
 P.O. Box 147 Laurel, Maryland 20707



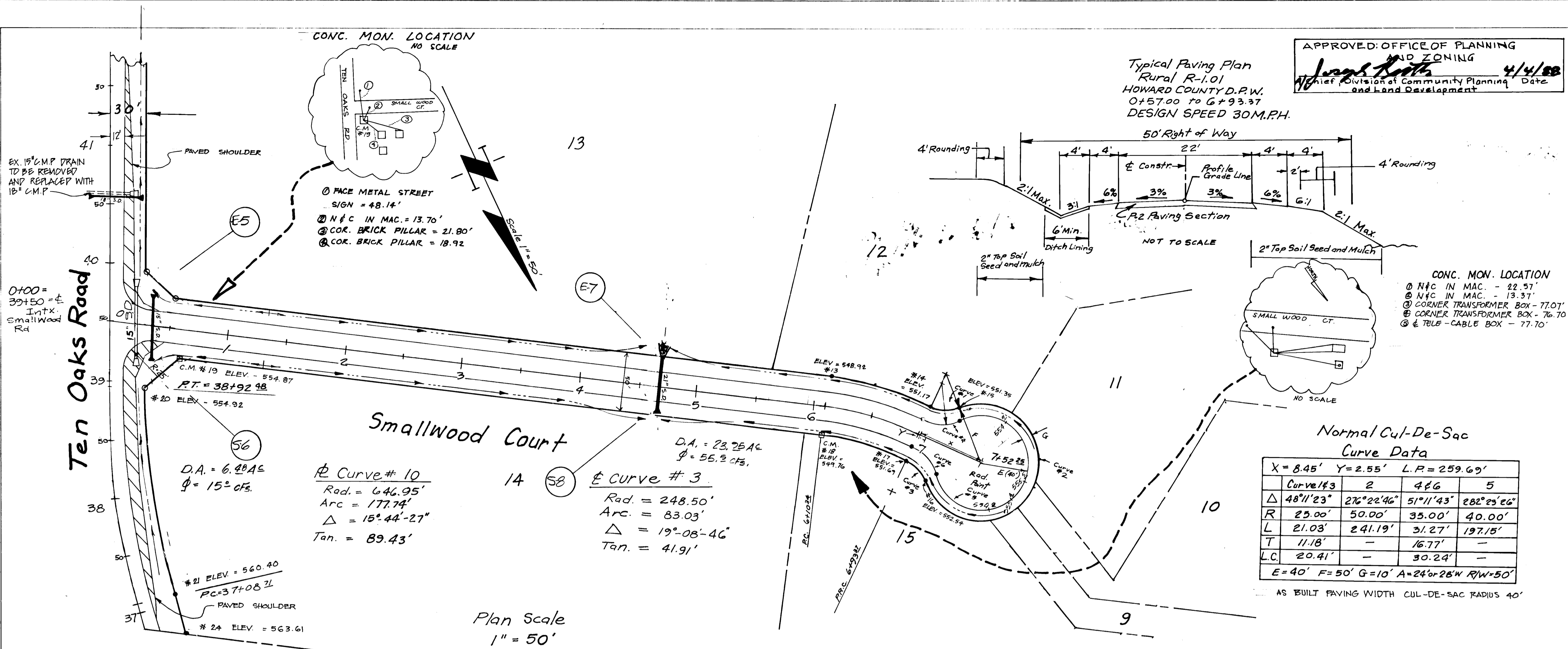
PROFILE SURVEYED BY DATE  
 NOTE BOOK GRADES CHECKED  
 B.M.'S NOTED  
 STRUCTURE NOTATIONS CHECKED  
 No.



1351

PLAN SURVEYED...  
 NOTE BOOK...  
 BY DATE

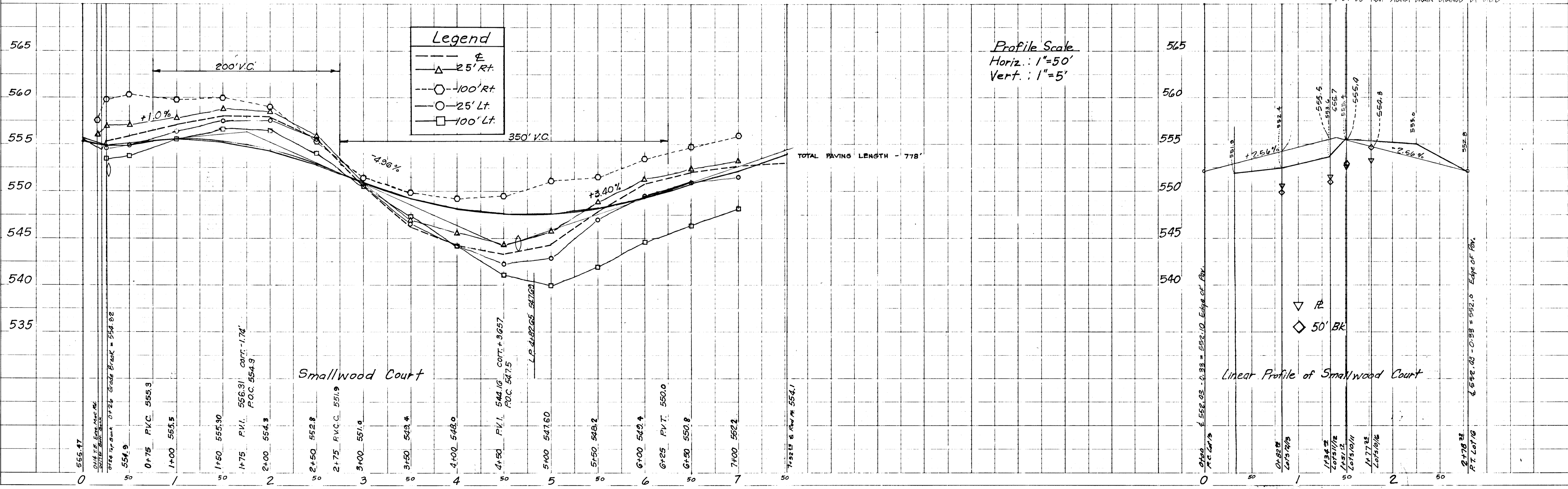
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 NOTE BOOK...  
 BY DATE



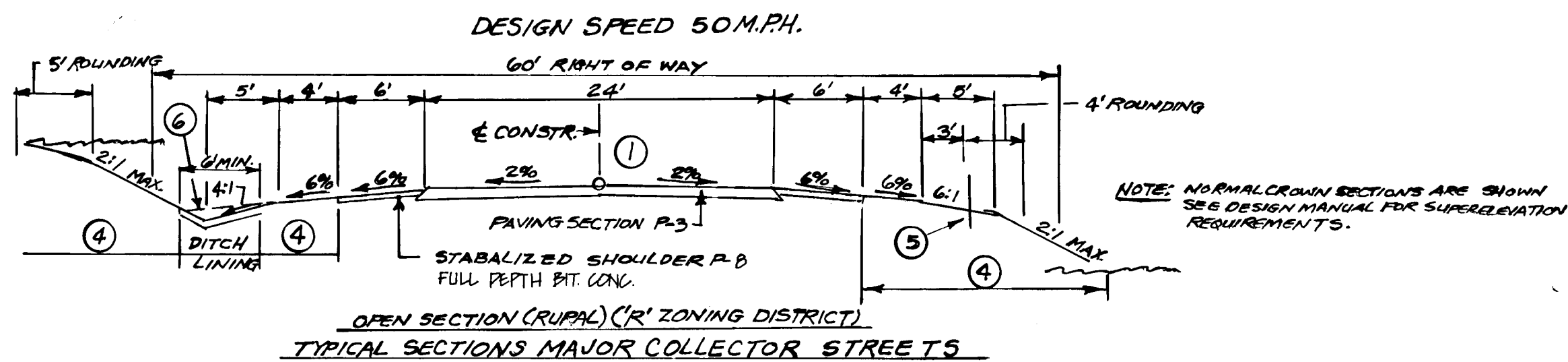
**SMALLWOOD COURT**  
 Dunfarmin Estates  
 Clarksville  
 Tax Map 34 Parcel 292  
 Fifth Election District  
 Howard County, Maryland  
 Owners: S.T. Nichols Jr. and James S. Nichols  
 13938 Highland Road Clarksville, Maryland 21025

Ref: S-86-68  
 p-87-47

Prepared by The J.E. CLARK Company  
 P.O. Box 147 Laurel, Maryland 20707

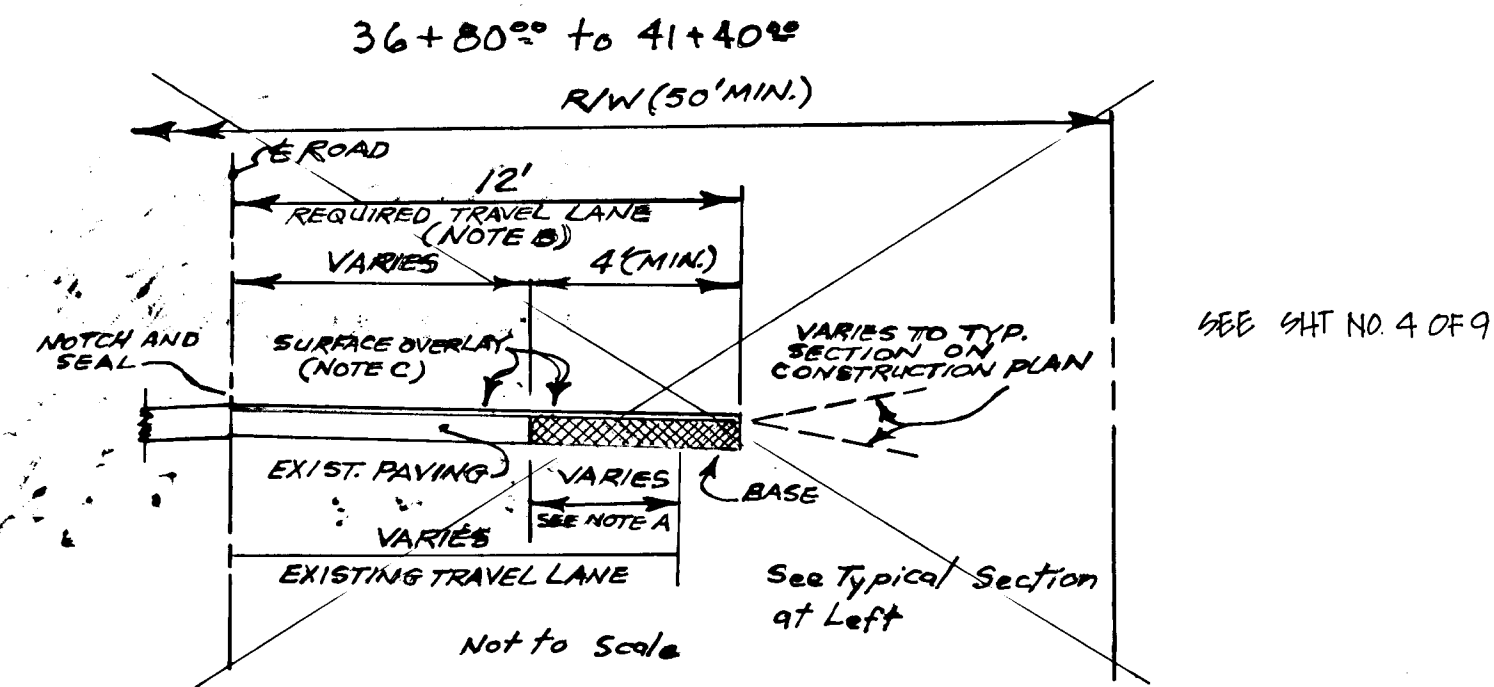
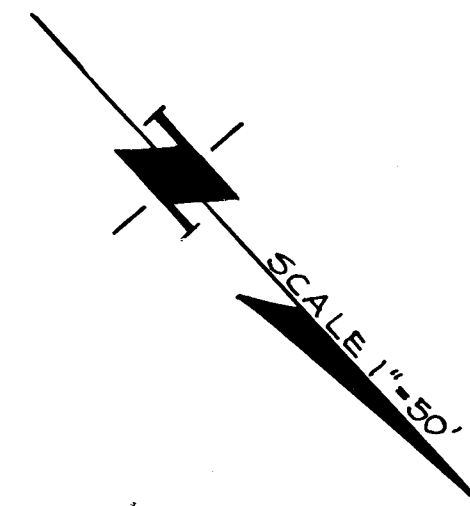


1351



- ① PROFILE GRADE LINE (PGL) SEE DESIGN MANUAL.
- ② STD. COMB. CURB & GUTTER.
- ③ 4" CONCRETE SIDEWALK AS REQUIRED BY SUBDIVISION REGULATIONS.
- ④ INDICATES 2" TOPSOIL SEED AND MULCH.
- ⑤ GUARDRAIL WHERE REQUIRED BY THE DESIGN MANUAL.
- ⑥ DITCH CROSS SECTION SLOPE MAY BE FLATTENED TO PROVIDE A SWALE AT OR NEAR THE CREST OF VERTICAL CURVES WHERE THE QUANTITY OF SWALE FLOW IS SMALL, AS APPROVED BY D.P.W.

PLAN  
SURVEYED  
PLOTTED  
NOTE BOOK  
NO. 10  
DATE  
BY  
CHECKED  
DATE  
BY  
CHECKED  
DATE  
BY



TYPICAL WIDENING STRIPS ALONG EXISTING ROADWAYS  
RURAL R-10.01  
HOWARD COUNTY D.P.W.

- NOTE A When existing travel lane is less than the required 12' Lane Contractor shall remove enough of the existing Road Bed to provide a minimum base widening of 4'.
- NOTE B The surface overlay shall be carried to the E of the Road and notched and sealed.
- NOTE C Surface overlay course to be equal to Surface Course of Typical paving section of subdivision.

**TEN OAKS ROAD**  
Dunfarmin Estates  
Clarksville

Tax Map 34 Parcel 292  
Fifth Election District  
Howard County Maryland  
Owners: S.T. Nichols Jr. and James S. Nichols  
13938 Highland Road Clarksville, Maryland 21025  
Ref: S 80-68 P 87-47

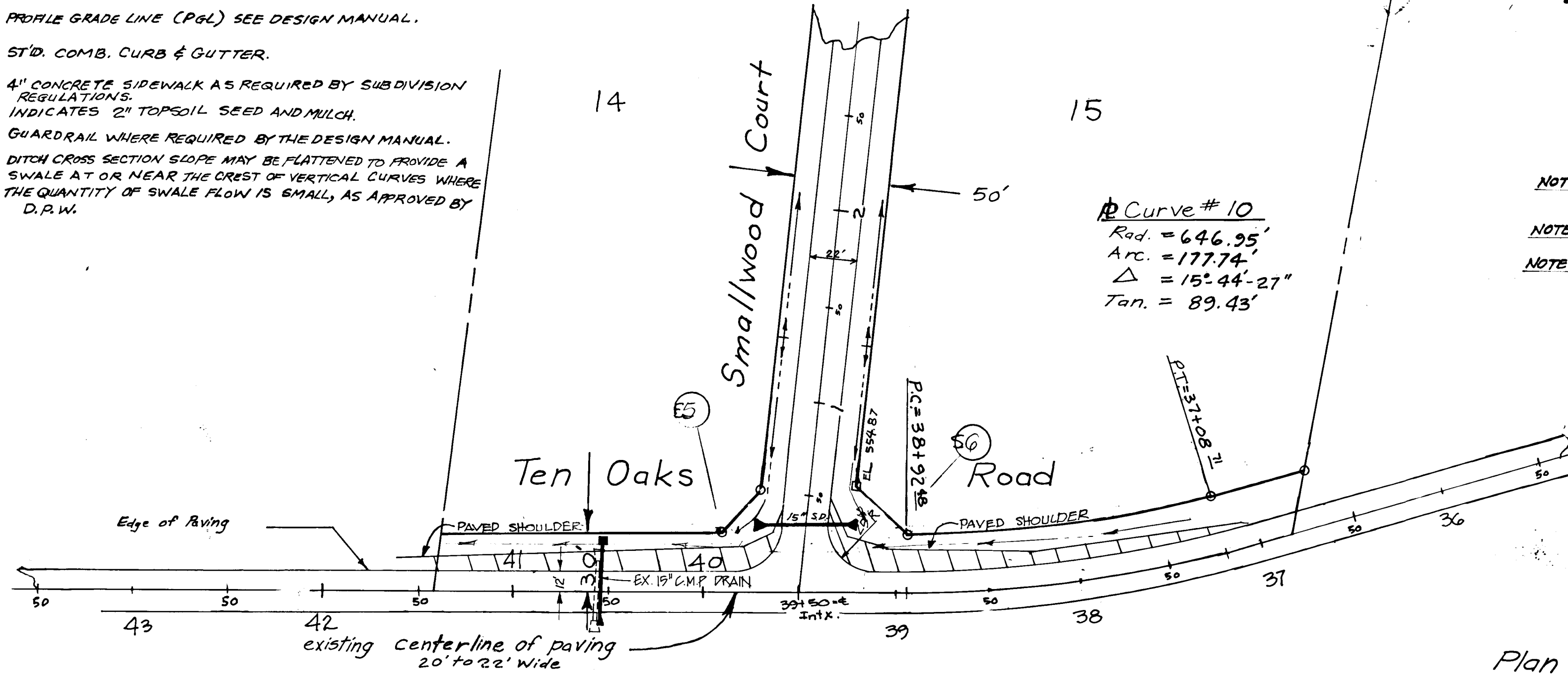
Prepared by The J.E. CLARK Company  
P.O. Box 147 Laurel, Maryland 20707

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

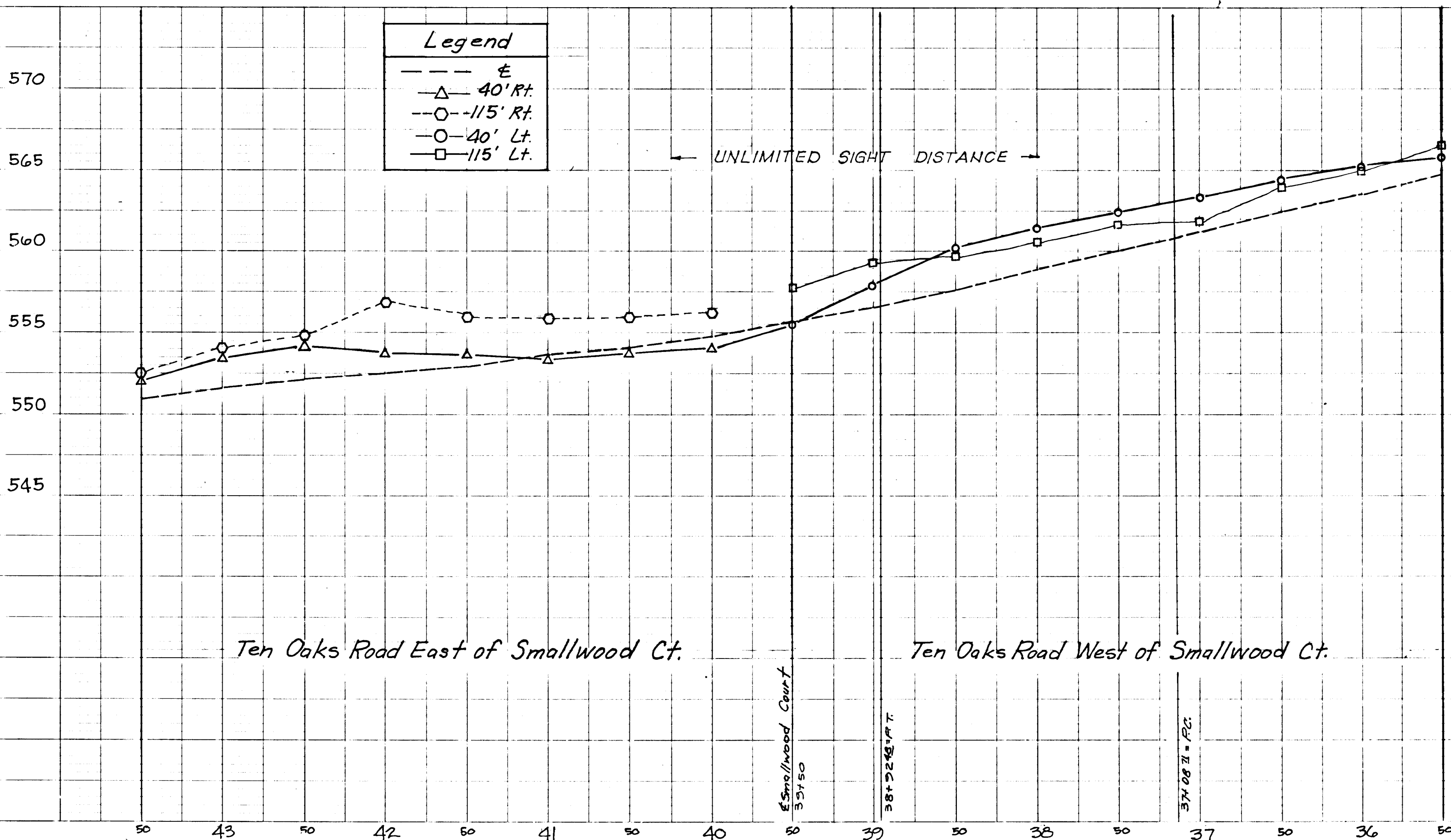
*[Signature]* 3-20/88  
Chief, Land Development Division  
*[Signature]* 3/25/88  
Chief, Bureau of Highways  
*[Signature]* 3-25/88  
Chief, Bureau of Engineering

APPROVED: OFFICE OF PLANNING AND ZONING

*[Signature]* 4/4/88  
Chief, Division of Community Planning and Land Development



Plan Scale  
1" = 50'



Profile Scale  
Horiz: 1" = 50'  
Vert: 1" = 5'

PROFILE  
SURVEYED  
PLOTTED  
NOTE BOOK  
NO. 10  
DATE  
BY  
CHECKED  
DATE  
BY  
CHECKED  
DATE  
BY

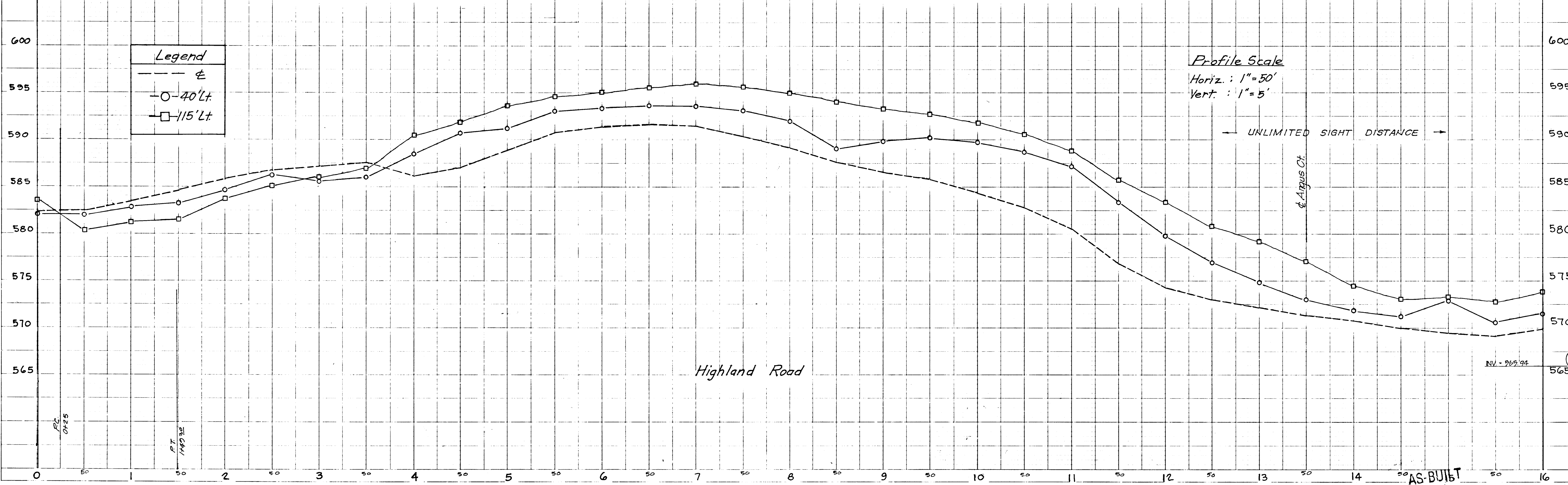
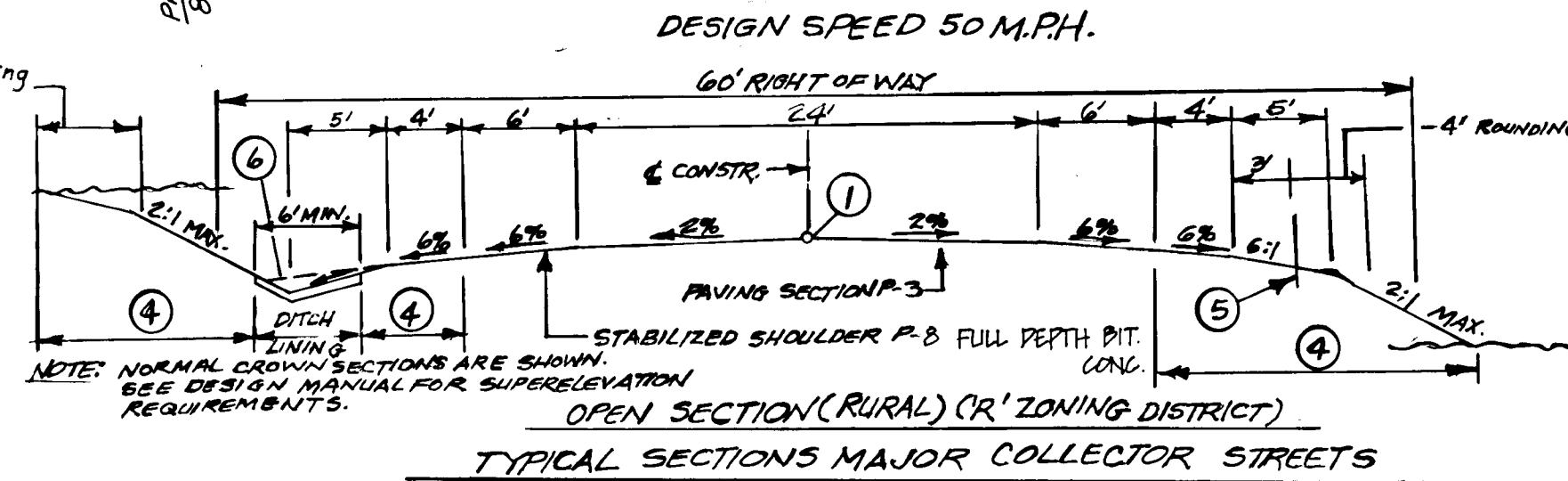
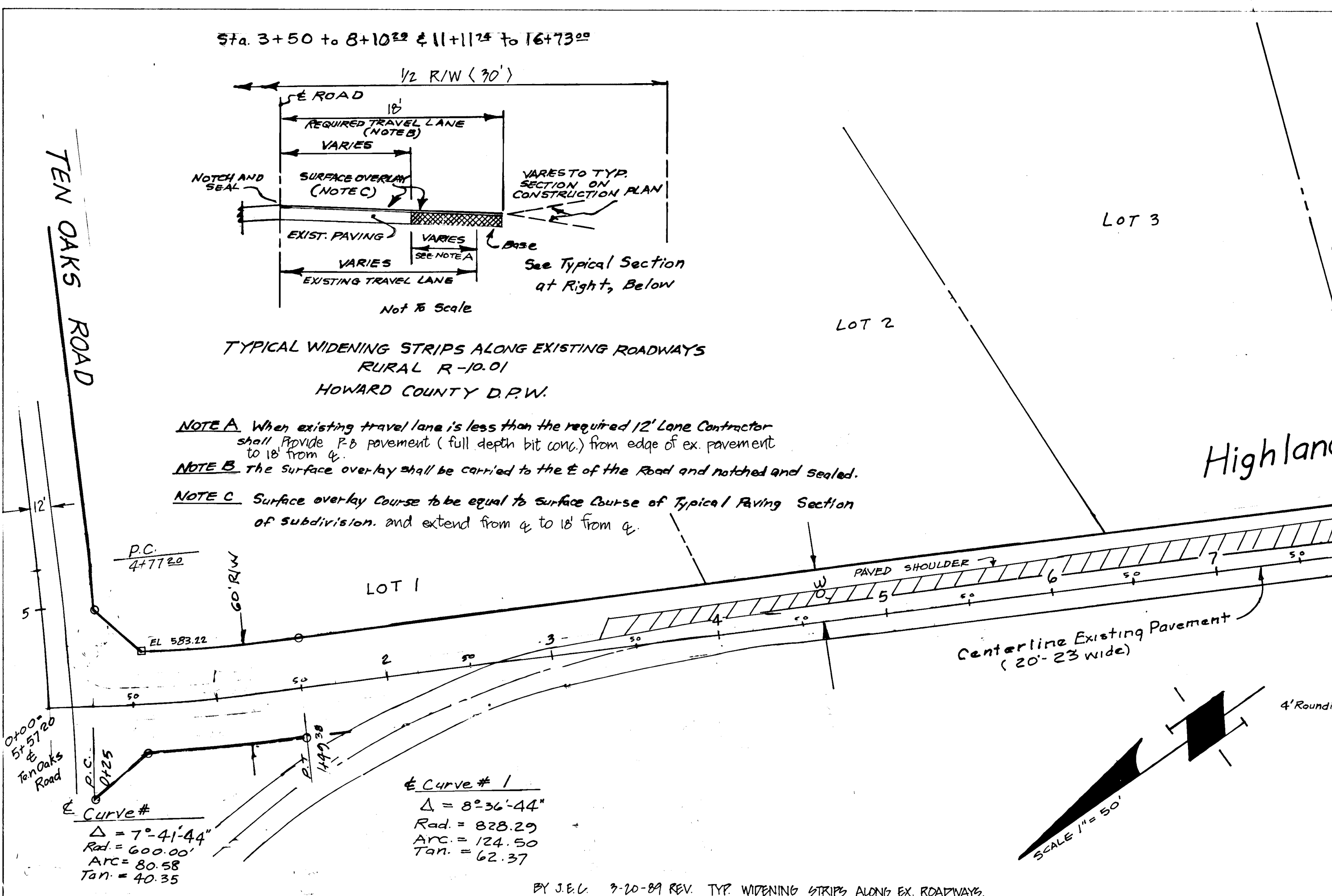
1351

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_ PLOTTED: \_\_\_\_\_ CHECKED: \_\_\_\_\_  
 NOTE BOOK No. \_\_\_\_\_  
 STRUCTURE NOTATIONS CHECKED: \_\_\_\_\_

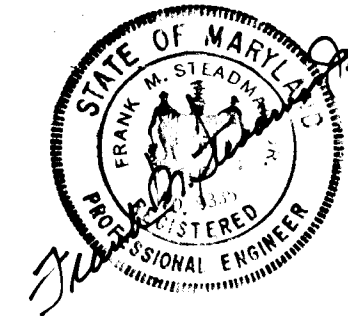
DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_ PLOTTED: \_\_\_\_\_ CHECKED: \_\_\_\_\_  
 NOTE BOOK No. \_\_\_\_\_  
 STRUCTURE NOTATIONS CHECKED: \_\_\_\_\_

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 [Signature] 3-28-88  
 Chief, Land Development Division  
 [Signature] 3/25/88  
 Chief, Bureau of Highways  
 [Signature] 3/28/88  
 Chief, Bureau of Engineering

APPROVED: OFFICE OF PLANNING AND ZONING  
 [Signature] 4/4/88  
 Chief, Division of Community Planning and Land Development  
 NOT INCLUDED



- 1 PROFILE GRADELINE (P.G.L.) SEE DESIGN MANUAL
- 2 STD. COMB. CURB & GUTTER.
- 3 4" CONCRETE SIDEWALK AS REQUIRED BY SUBDIVISION REGULATIONS
- 4 INDICATES 2" TOPSOIL, SEED AND MULCH.
- 5 GUARD RAIL WHERE REQUIRED BY THE DESIGN MANUAL
- 6 DITCH CROSS SECTION SLOPE MAY BE FLATTENED TO PROVIDE A SWALE AT OR NEAR THE CREST OF VERTICAL CURVES WHERE QUANTITY OF SWALE FLOW IS SMALL, AS APPROVED BY D.P.W.

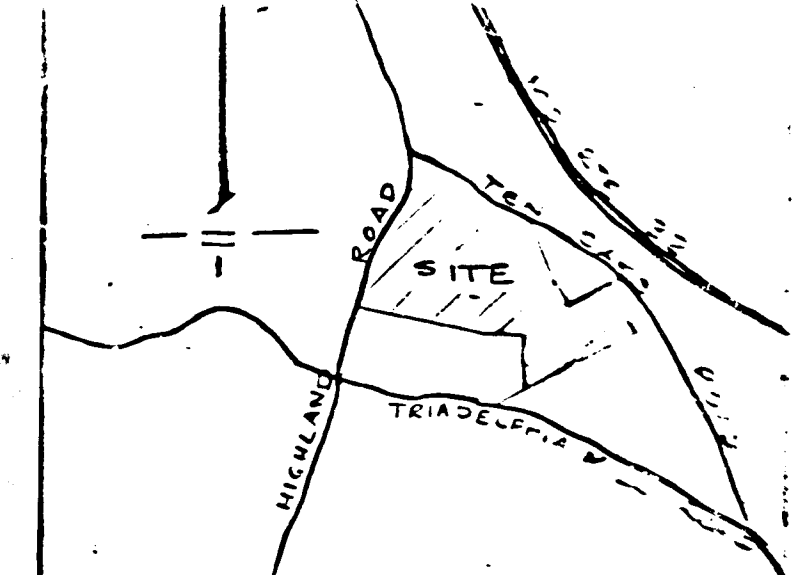


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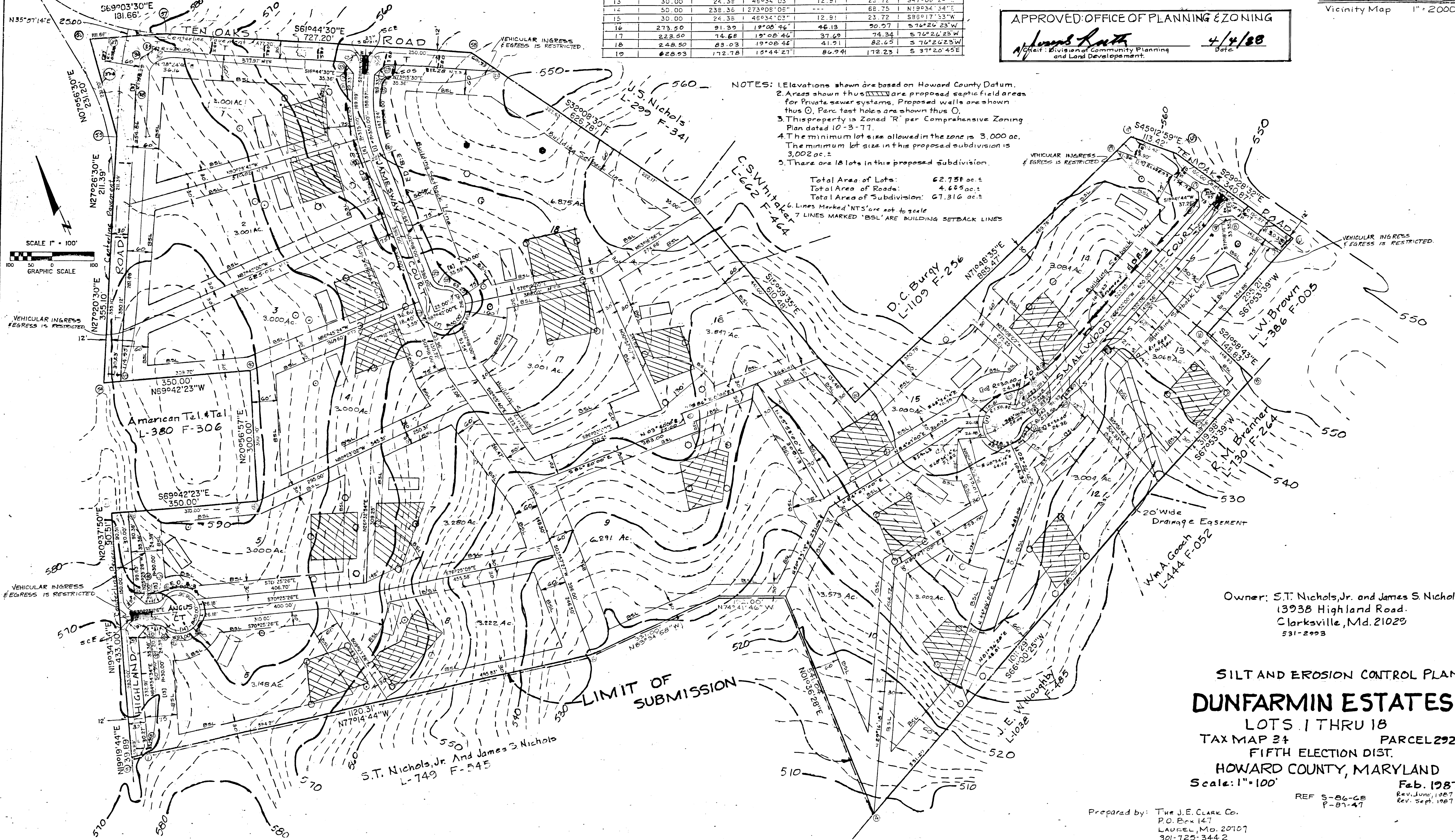
BOUNDARY COORDINATES				LOT AREAS	
POINT	N. CO-ORD.	E. CO-ORD.	POINT	N. CO-ORD.	E. CO-ORD.
2	503803.26	80777.60	55	505364.11	807182.87
3	503726.14	808193.14	56	505593.09	807214.83
4	503185.35	808177.96	57	505528.16	807384.49
5	503716.97	809398.32	58	505183.87	808025.02
6	503854.99	809342.62	59	504342.73	809347.90
20	504066.91	808526.68	60	504262.83	809448.40
21	504453.16	808358.48	61	503966.08	809616.13
40	504739.68	807250.45	62	503814.66	808011.96
41	504459.51	807143.39			
52	504050.59	806624.94			
53	504580.90	806815.11			
54	504861.07	806922.37			

CURVE DATA						
NUMBER	RADIUS	ARC	DELTA	TANGENT	CHORD	CHORD-BEARING
1	350.00	158.57	25°57'30"	80.67	157.22	S15°16'45"W
2	858.29	128.40	8°34'18"	64.32	128.28	N31°37'30"E
3	728.20	90.71	6°36'37"	45.40	90.66	N30°35'40"E
4	630.00	29.59	2°41'29"	14.80	29.59	S60°23'46"E
5						
6	375.00	168.89	25°57'30"	86.43	168.45	S15°16'45"W
7	50.00	218.40	24°19'58"32"	---	82.92	N58°18'44"E
8	30.00	35.59	67°58'32"	20.23	33.54	N31°41'16"W
9	325.00	147.24	25°57'30"	74.91	145.89	N15°16'45"E
10	30.00	24.38	46°34'03"	12.91	23.72	N70°42'13"W
11	50.00	238.36	27°30'08"06"	---	68.75	S3°59'14"E
12	30.00	24.38	46°34'03"	12.91	23.72	N70°42'13"W
13	30.00	24.38	46°34'03"	12.91	23.72	S47°08'24"E
14	50.00	238.36	27°30'08"05"	---	68.75	N19°34'34"E
15	30.00	24.38	46°34'03"	12.91	23.72	S88°17'33"W
16	273.50	91.39	19°08'46"	46.13	90.97	S76°24'23"W
17	228.50	74.68	19°08'46"	37.69	74.34	S76°24'23"W
18	248.50	83.03	19°08'46"	41.91	82.65	S76°24'23"W
19	228.93	172.78	15°44'27"	86.94	172.23	S31°20'45"E

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 3-28-88  
 Date  
 Chief, Land Development Division  
*Graville W. Newland*  
 Chief, Bureau of Highway  
 3/25/88  
 Date  
*W. H. H. H.*  
 Chief, Bureau of Engineering  
 3/21/88  
 Date



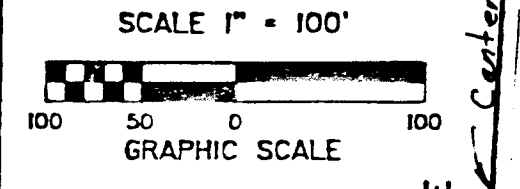
APPROVED: OFFICE OF PLANNING & ZONING  
 4/4/88  
 Date  
 Chief, Division of Community Planning and Land Development  
*James R. H.*



- NOTES: 1. Elevations shown are based on Howard County Datum.  
 2. Areas shown thus are proposed septic field areas for private sewer systems. Proposed walls are shown thus . Perc test holes are shown thus .  
 3. This property is zoned "R" per Comprehensive Zoning Plan dated 10-3-77.  
 4. The minimum lot size allowed in the zone is 3,000 ac. The minimum lot size in this proposed subdivision is 3,002 ac.±  
 5. There are 18 lots in this proposed subdivision.

Total Area of Lots: 62.751 ac.±  
 Total Area of Roads: 4.665 ac.±  
 Total Area of Subdivision: 67.316 ac.±

6. Lines Marked "NTS" are not to scale  
 7. LINES MARKED "BSL" ARE BUILDING SETBACK LINES



Owner: S.T. Nichols, Jr. and James S. Nichols  
 13938 Highland Road,  
 Clarksville, Md. 21029  
 531-2993

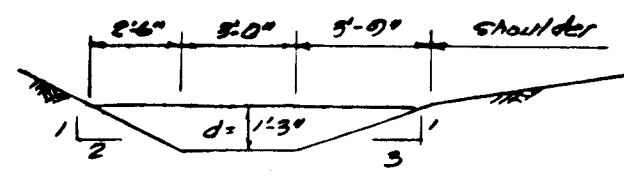
SILT AND EROSION CONTROL PLAN  
**DUNFARMIN ESTATES**  
 LOTS 1 THRU 18  
 TAX MAP 34 PARCEL 292  
 FIFTH ELECTION DIST.  
 HOWARD COUNTY, MARYLAND  
 Scale: 1"=100'  
 Feb. 1987  
 Rev. June, 1987  
 Rev. Sept. 1987

Prepared by: THE J.E. CLARK CO.  
 P.O. Box 147  
 LAUREL, Md. 20707  
 301-725-3442

REF S-86-68  
 P-87-47

**ST-V Stone Outlet Sediment Trap**

Drainage Area = 1.33 Ac.  
 Storage Required = 2394 c.f.  
 Storage Provided = 2912 c.f.  
 Dim. of Bottom = 50' x 20'  
 Bottom El. = 559.0'  
 Outfall El. = 561.0'  
 Weir Crest = 562.0'  
 Top of Embankment = 563.0'  
 Cleanout El. = 561.5'  
 Side Slopes = 2:1



**SODDED SIDE DITCH**  
 No Scale

**Developer's Note**

"I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

*E. Turner Nichols* 2-1-88  
 E. Turner Nichols Date

**Engineer's Note**

"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."

*Jack E. Clark* 2-1-88  
 Jack E. Clark Date

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

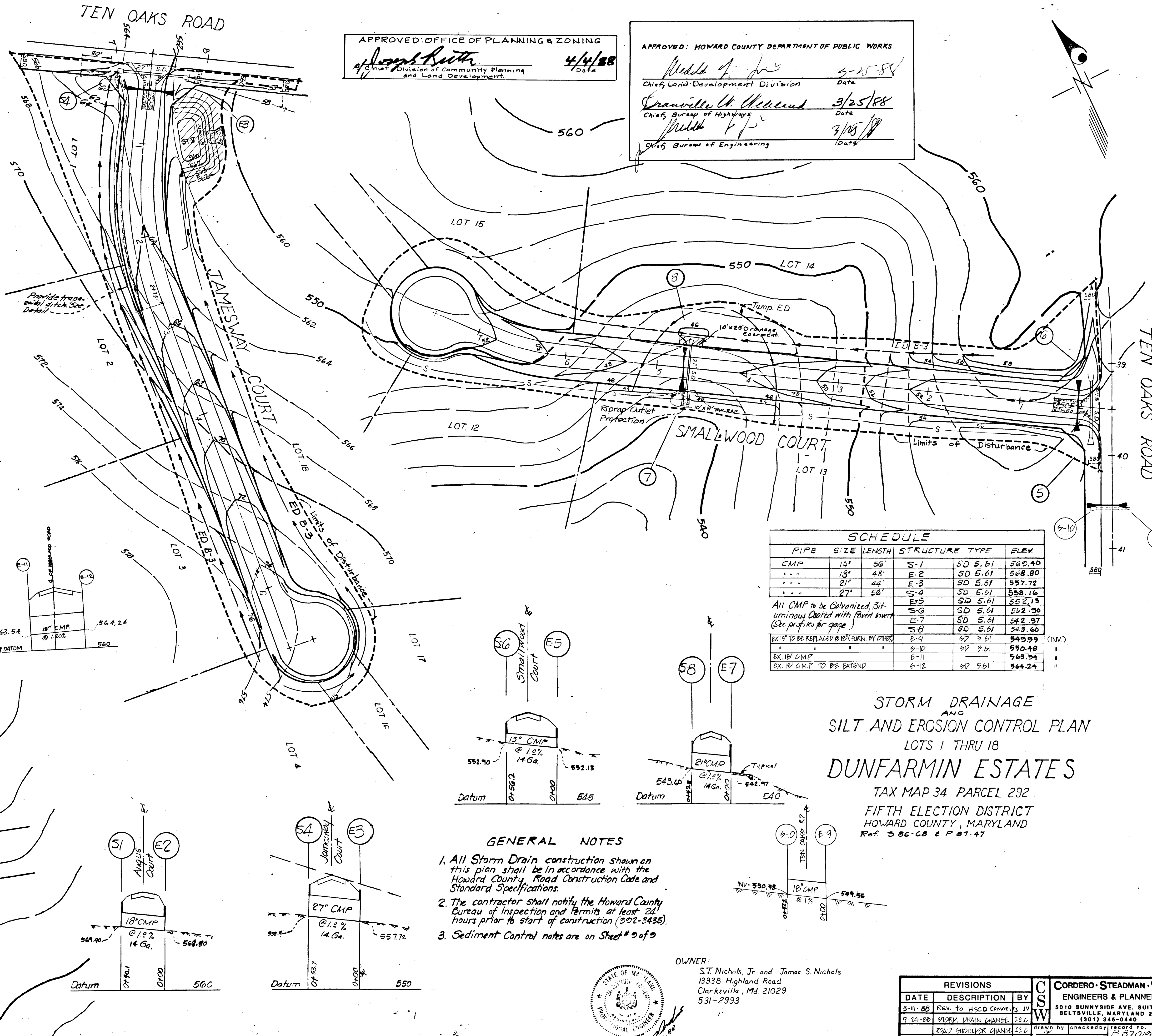
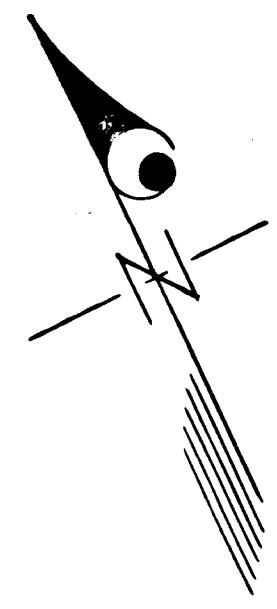
U.S. Soil Conservation Service

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

*John R. Redner* 3/24/88  
 Howard S.C.D. Date

APPROVED: OFFICE OF PLANNING & ZONING  
*James Butler* 4/14/88  
 Chief, Division of Community Planning and Land Development. Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Wade D. Jones* 3-25-88  
 Chief, Land Development Division Date  
*Granville W. McLeod* 3/25/88  
 Chief, Bureau of Highways Date  
*Paul H. F.* 3/25/88  
 Chief, Bureau of Engineering Date



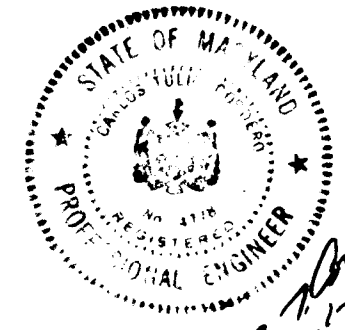
PIPE	SIZE	LENGTH	STRUCTURE TYPE	ELEV.
CMP	15"	56'	S-1	SD 5.61 560.40
"	18"	43'	E-2	SD 5.61 568.80
"	21"	44'	E-3	SD 5.61 557.72
"	27"	56'	S-4	SD 5.61 558.16
All CMP to be Galvanized, Bituminous Coated with Fiberglass Inset (See profile for gage)				
EX-10"	TO BE REPLACED @ 10" (FURN. BY OTHER)	E-5	SD 5.61	552.13
"	"	E-6	SD 5.61	552.90
EX-18" CMP	"	E-7	SD 5.61	542.97
"	"	E-8	SD 5.61	543.60
EX-18" CMP	"	E-9	SD 5.61	549.97 (INV.)
"	"	E-10	SD 5.61	550.48
EX-18" CMP	"	E-11	SD 5.61	563.54
EX-18" CMP	"	E-12	SD 5.61	564.24

**STORM DRAINAGE AND SILT AND EROSION CONTROL PLAN**  
 LOTS 1 THRU 18  
**DUNFARMIN ESTATES**  
 TAX MAP 34 PARCEL 292  
 FIFTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 Ref. 386-CB & P 81-47

**GENERAL NOTES**

- All Storm Drain construction shown on this plan shall be in accordance with the Howard County Road Construction Code and Standard Specifications.
- The contractor shall notify the Howard County Bureau of Inspection and Permits at least 24 hours prior to start of construction (302-3435).
- Sediment Control notes are on Sheet # 9 of 9

OWNER:  
 S.T. Nichols, Jr. and James S. Nichols  
 13938 Highland Road  
 Clarksville, Md. 21029  
 531-2993



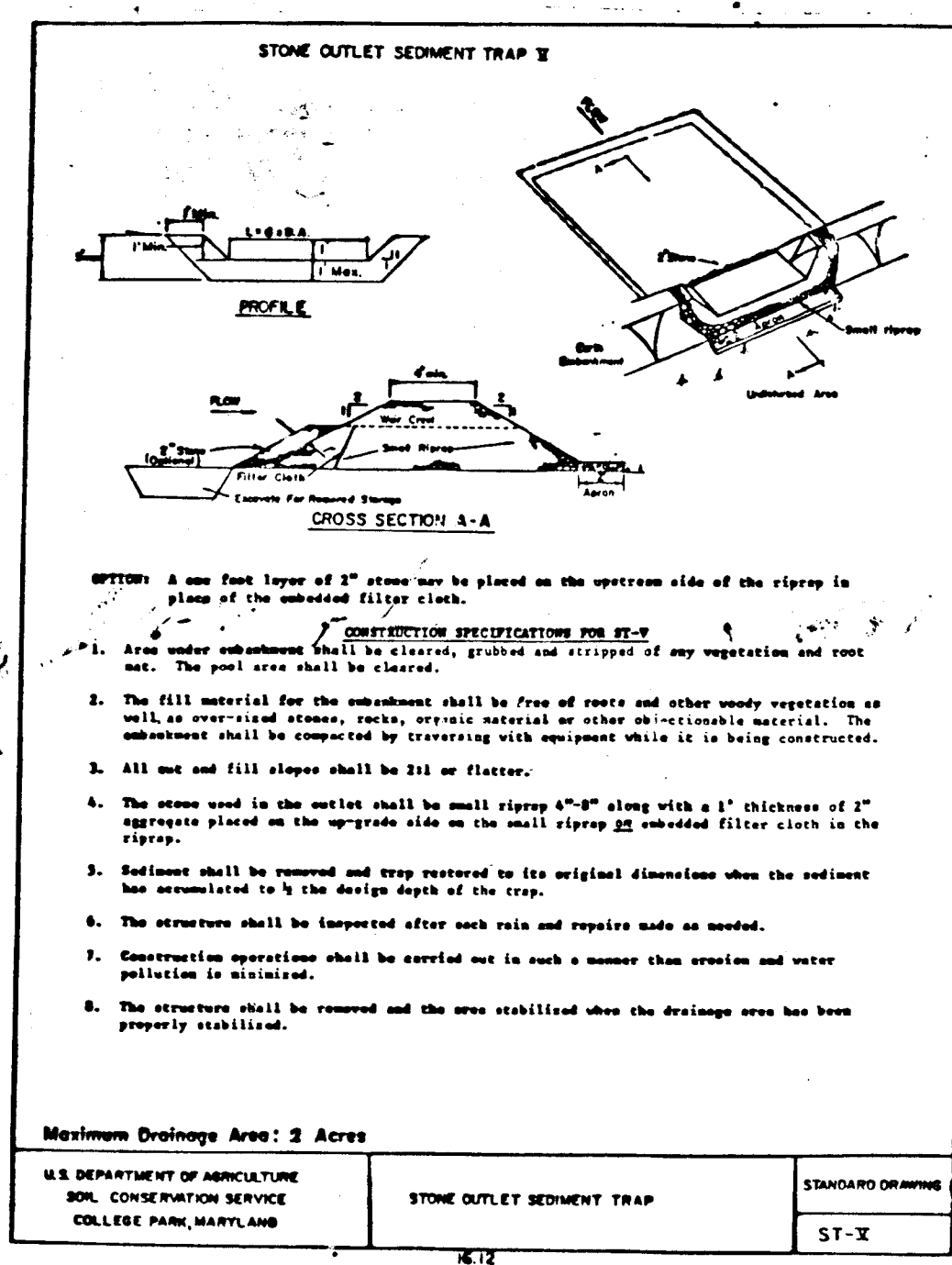
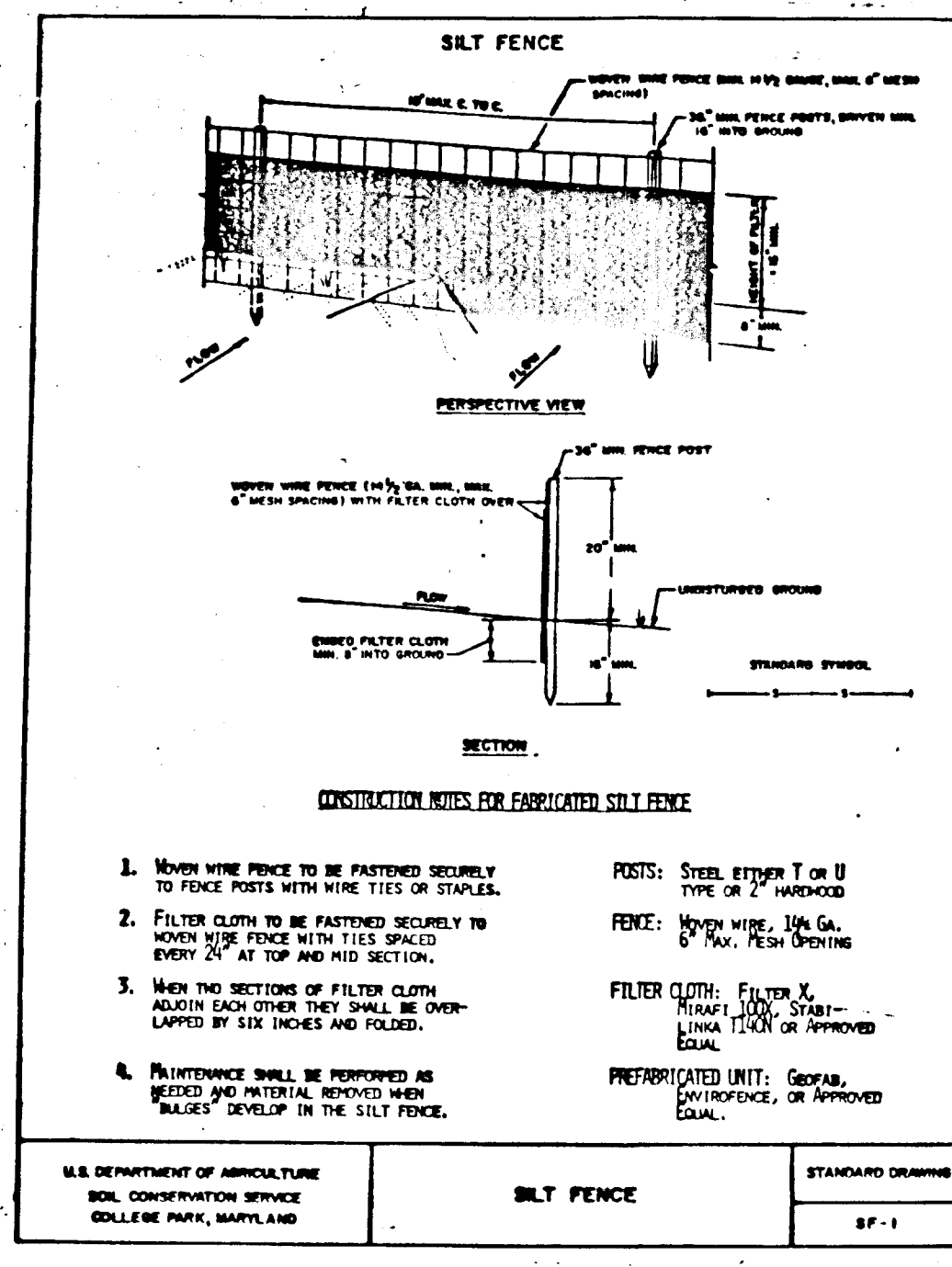
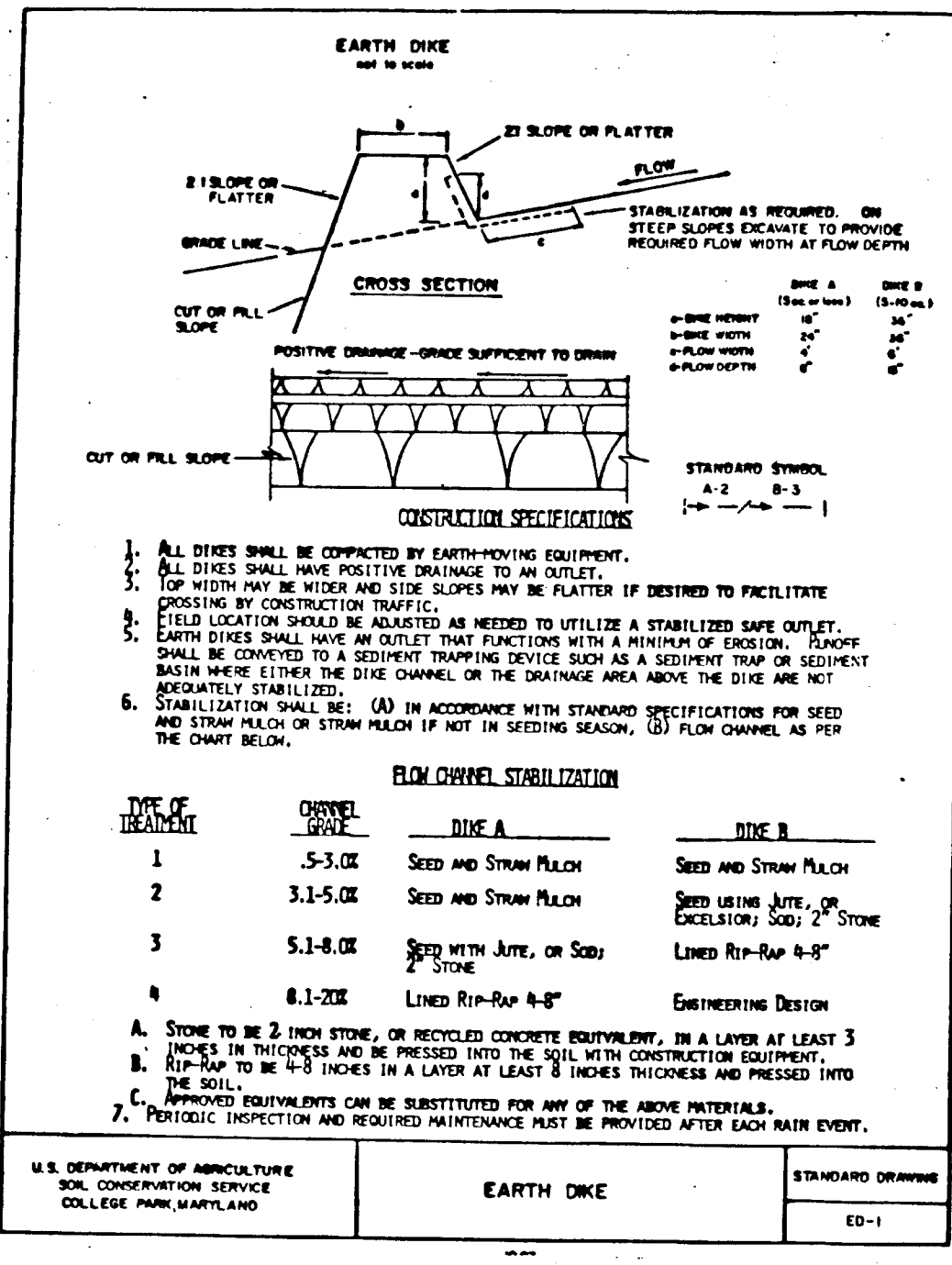
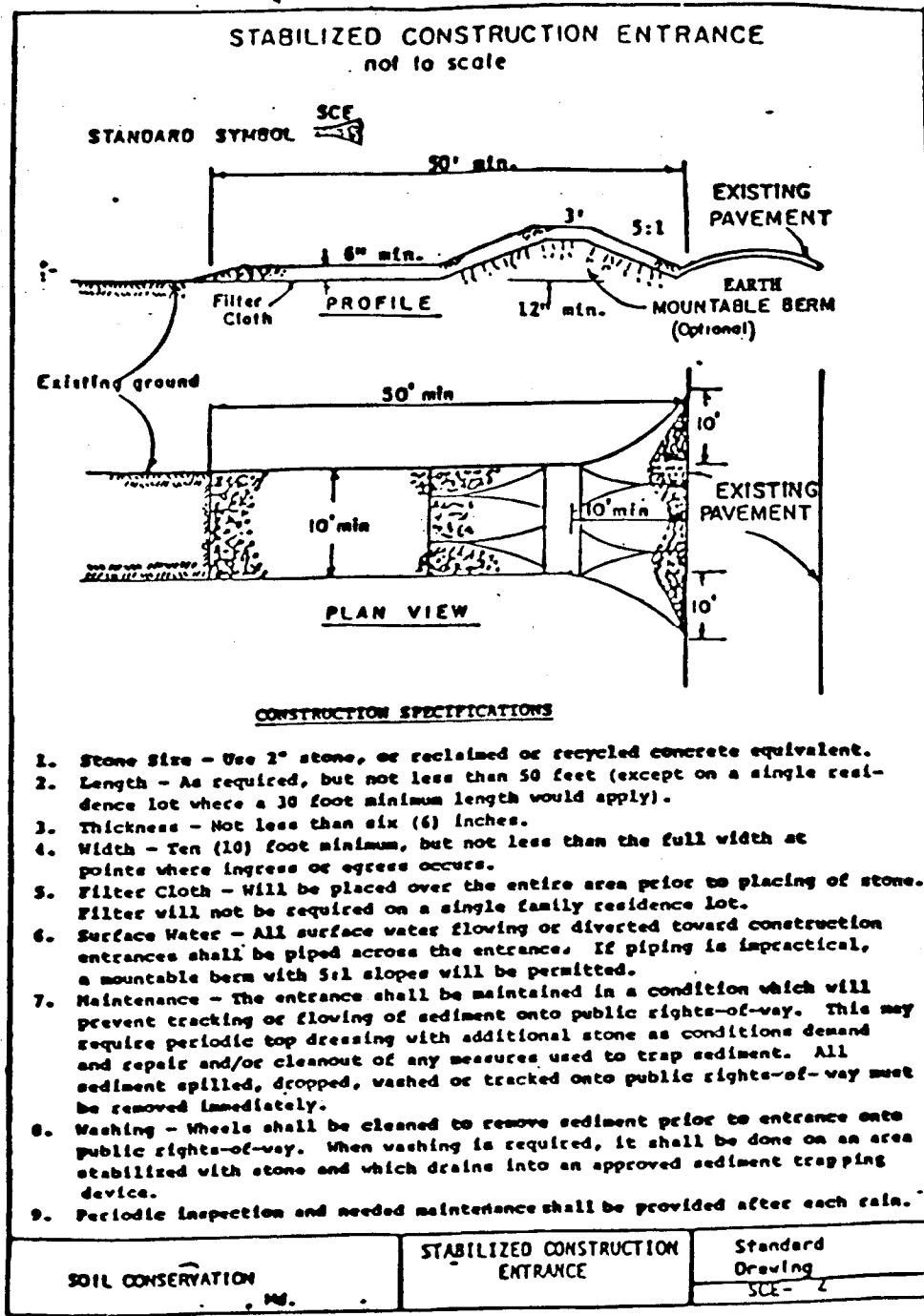
DATE	REVISIONS	DESCRIPTION	BY
3-11-88	REV. TO HSCD COMMENTS		JV
9-24-88	STORM DRAIN CHANGE		JEL
	ROAD SHOULDER CHANGE		JEL

drawn by checked by record no.  
 scale 1"=50' 2370  
 date OCTOBER 1987 dwg. no. 8 of 9

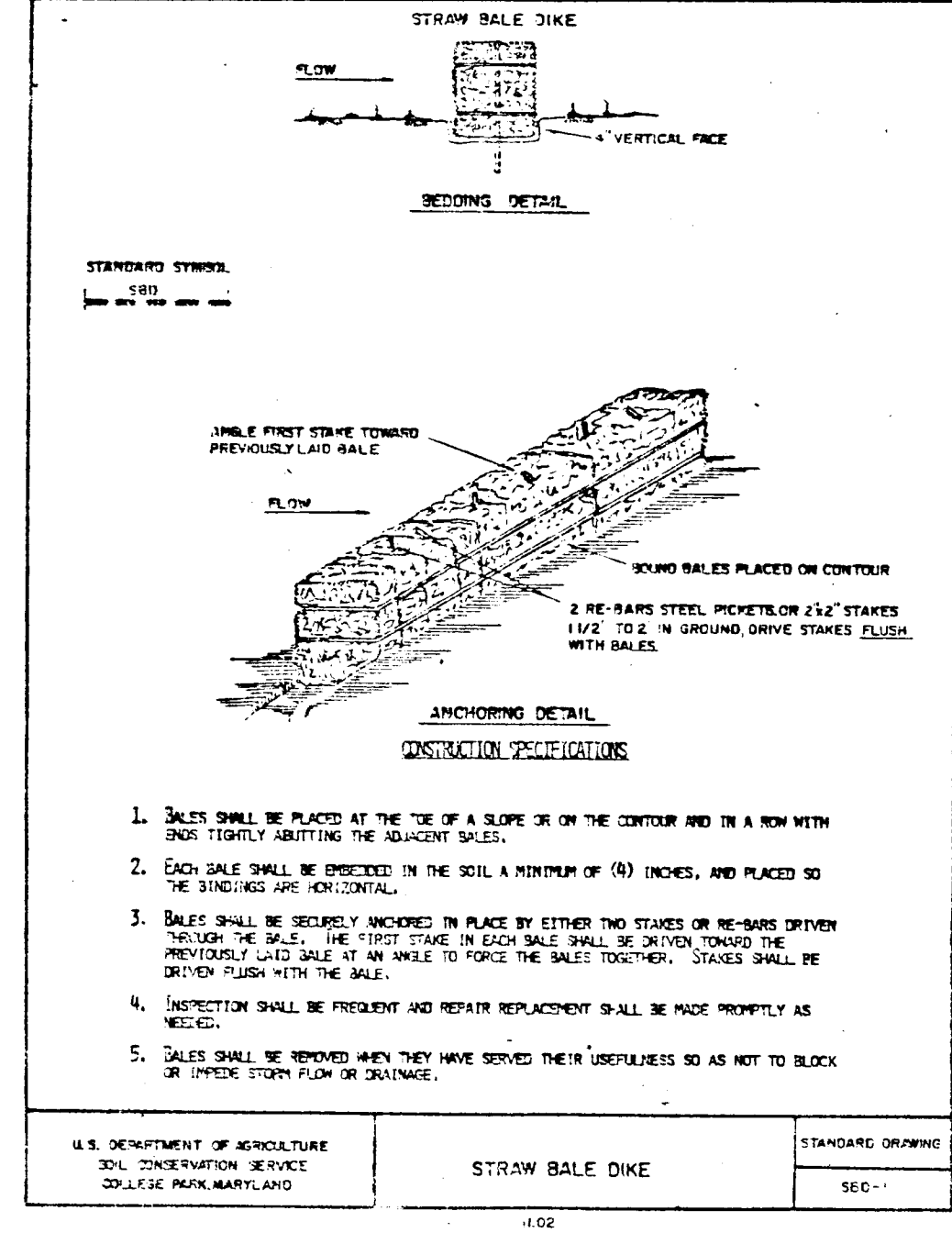
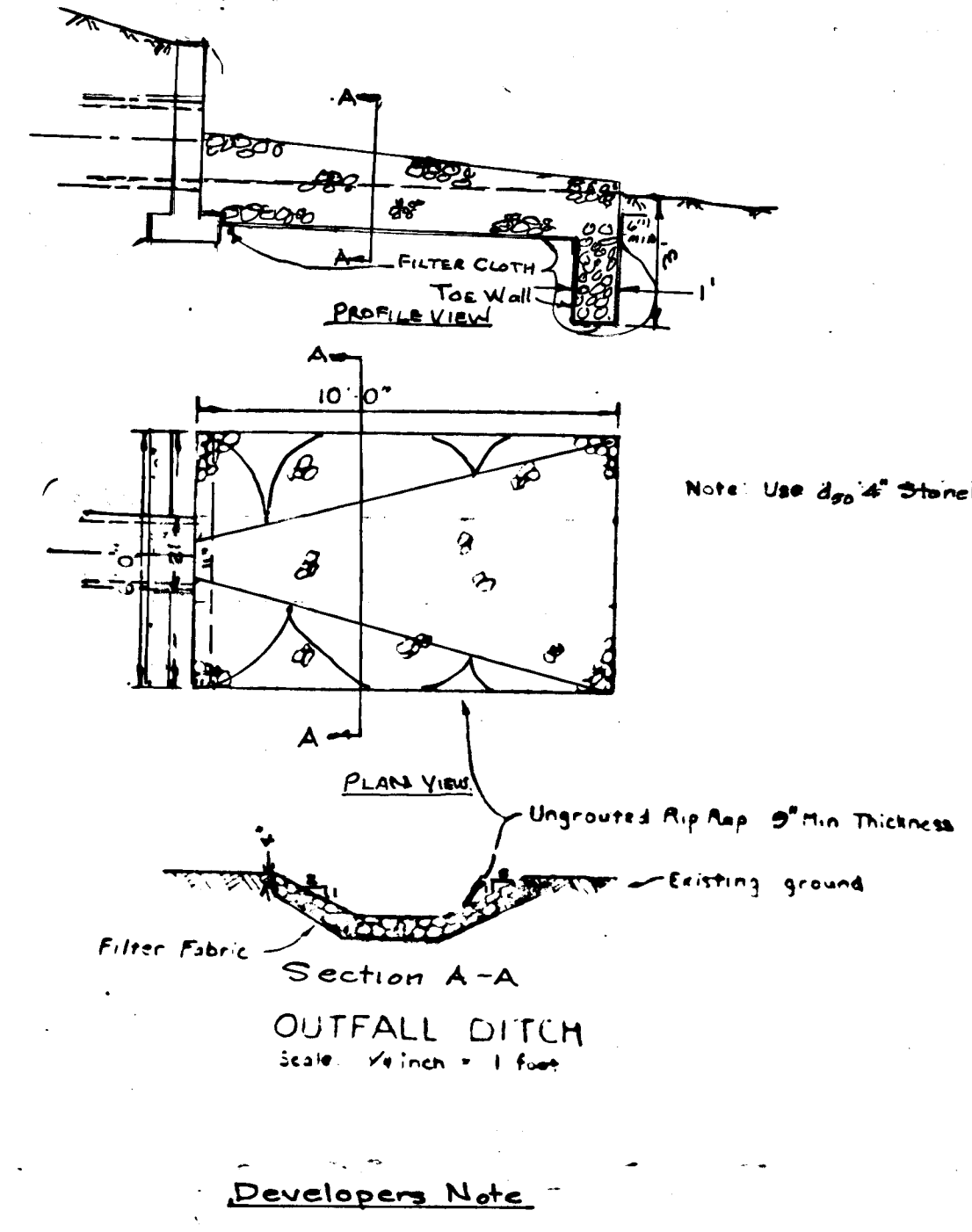
135

F-88-96





- SEDIMENT CONTROL NOTES**
- A minimum of 24 hour notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (J92-2437)
  - 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 1:1, b) 14 days as to all other disturbed or graded areas on the project site.
  - All sediment traps/basins shown 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) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). 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: 61.5 Acres  
Area Disturbed: 6.4 Acres  
Area to be roofed or paved: 1.04 Acres  
Area to be vegetatively stabilized: 5.26 Acres  
Total Cut: 4800 Cu. yds  
Total Fill: 4800 Cu. yds  
Offsite waste/borrow area location: N/A
  - Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
  - Additional sediment controls must be provided, if deemed necessary by the Howard County DPM sediment control inspector.
  - On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be required 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 S&E initial approval by the inspection agency is made.



Note 2-a:  
The temporary Earth Dike at structure 8 is to be installed, the drain pipe installed and the temporary dike removed before street grading begins on Smallwood Court. The area disturbed by the temporary Earth Dike outside the E.D.B.'s earth dike line on the north side of Smallwood is to be stabilized and a straw bale dike installed between that area and the pipe inlet.

**SEQUENCE OF CONSTRUCTION**

- OBTAIN GRADING PERMIT
- Install sediment control measures. Silt fence, Earth Dikes, Stabilized Construction Entrances, Sediment Trap and Straw Bale Dikes. See notes on page 1 Week
- Clear and grub area for construction of streets and cul-de-sacs. Rough grade. 3 weeks
- Install drains, remove temporary E.D. at Smallwood Court. Fine grade and construct streets. 3 weeks
- Remove construction entrances and complete construction of streets. Stabilize all areas. 2 weeks
- With approval of Sediment Control Inspector, remove sediment control devices. Stabilize any remaining disturbance. 1 week

**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, if not previously loosened.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. at time of seeding, apply 400 lbs per acre 30-0-0 urea-forma fertilizer (9 lbs/1000 sq ft).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) + 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow 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 60 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 Kentucky 31 Tall Fescue per acre and 2 lbs per acre (0.5 lbs/1000 sq ft) 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 1/4 to 2 tons per acre (20 to 90 lbs/1000 sq ft) of unweeded small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gal/acre (8 gal/1000 sq ft) for anchoring.

Maintenance - Inspect all seeded areas and make needed repairs, replacement and reseedings.

**TEMPORARY SEEDING NOTES**

Apply to graded or cleared areas likely to be re-disturbed 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, if not previously loosened.

Soil Amendments: Apply 60 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 24 bushel per acre annual rye (2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (0.7 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 1/4 to 2 tons per acre (20 to 90 lbs/1000 sq ft) of unweeded small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet 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 rates and methods not covered.

**SILT & EROSION CONTROL DETAILS**  
**DUNFARMIN ESTATES**  
FIFTH ELECTION DISTRICT - HOWARD COUNTY, MD.  
PARCEL NO 292  
TAX MAP 34  
NO SCALE  
MAY 1981  
REV. 1988  
REF S-84-68 & P-87-47

"I/we certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

S. Turner Nichols 2-2-88 Date  
S. Turner Nichols

**Engineers Note.**  
"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."

Jack E. Clark 2-1-88 Date  
Jack E. Clark Engineer

Reviewed for HOWARD S.C.D. and meets Technical Requirements  
James H. Hahn 3/22/88 Date  
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
John H. Hahn 3/22/88 Date  
Howard S.C.D.

APPROVED: FOR PRIVATE WATER, PRIVATE SEWERAGE AND STORM DRAINAGE SYSTEM AND ROADS  
DEPARTMENT OF PUBLIC WORKS  
Michelle H. F. 3-25-88 DATE  
CHIEF, LAND DEVELOPMENT DIVISION  
John H. Hahn 3/25/88 DATE  
CHIEF, BUREAU OF ENGINEERING

APPROVED: OFFICE OF PLANNING AND ZONING  
James Hahn 4/4/88 DATE  
CHIEF, DIVISION OF Community Planning and Land Development

OWNER: S.T. NICHOLS & JAMES S. NICHOLS  
19298 HIGHLAND ROAD  
CLARKSVILLE, MD. 21029  
531-2993

THE UCLARK COMPANY  
PO BOX 147  
LAUREL, MARYLAND 20707  
301-725-3442

Sheet 9 of 9