

INDEX OF SHEETS

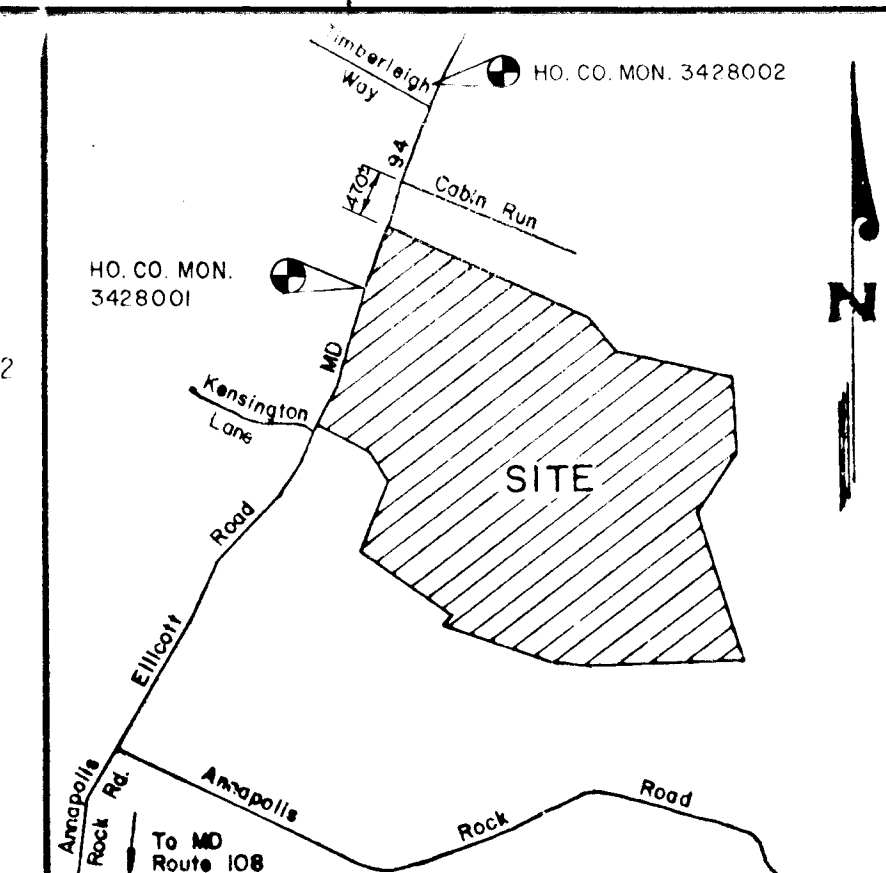
SHEET NO.	TITLE
1	TITLE SHEET
2	MD. ROUTE 94 (ELLCOTT ROAD) STA. 94+55.11 TO STA. 104+00
3	MD. ROUTE 94 (ELLCOTT ROAD) STA. 104+00 TO STA. 114+46.56
4	STARTING GATE COURT STA. 0+00 TO STA. 11+00
5	STARTING GATE COURT STA. 11+00 TO STA. 22+00
6	STARTING GATE COURT STA. 22+00 TO STA. 33+00
7	STARTING GATE COURT STA. 33+00 TO STA. 41+78.45
8	HAYLOFT COURT STA. 0+00 TO STA. 10+00
9	HAYLOFT COURT STA. 10+00 TO STA. 16+66.22
10	BRIGHTON COURT STA. 0+00 TO STA. 8+19.47
11	LANDCASTER COURT STA. 0+00 TO STA. 9+38.45
12	ROAD SECTIONS, DETAILS
13	STORM DRAIN PROFILES
14	STORM DRAIN PROFILES & DETAILS
15	DRAINAGE AREA MAP
16	SEDIMENT CONTROL & GRADING PLAN
17	SEDIMENT CONTROL & GRADING PLAN
18	SEDIMENT CONTROL & GRADING PLAN
19	SEDIMENT CONTROL & GRADING PLAN
20	SEDIMENT CONTROL & GRADING PLAN
21	SEDIMENT CONTROL DETAILS & NOTES

# ROAD CONSTRUCTION PLANS CABIN BRANCH FARM

FOURTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

BENCHMARKS

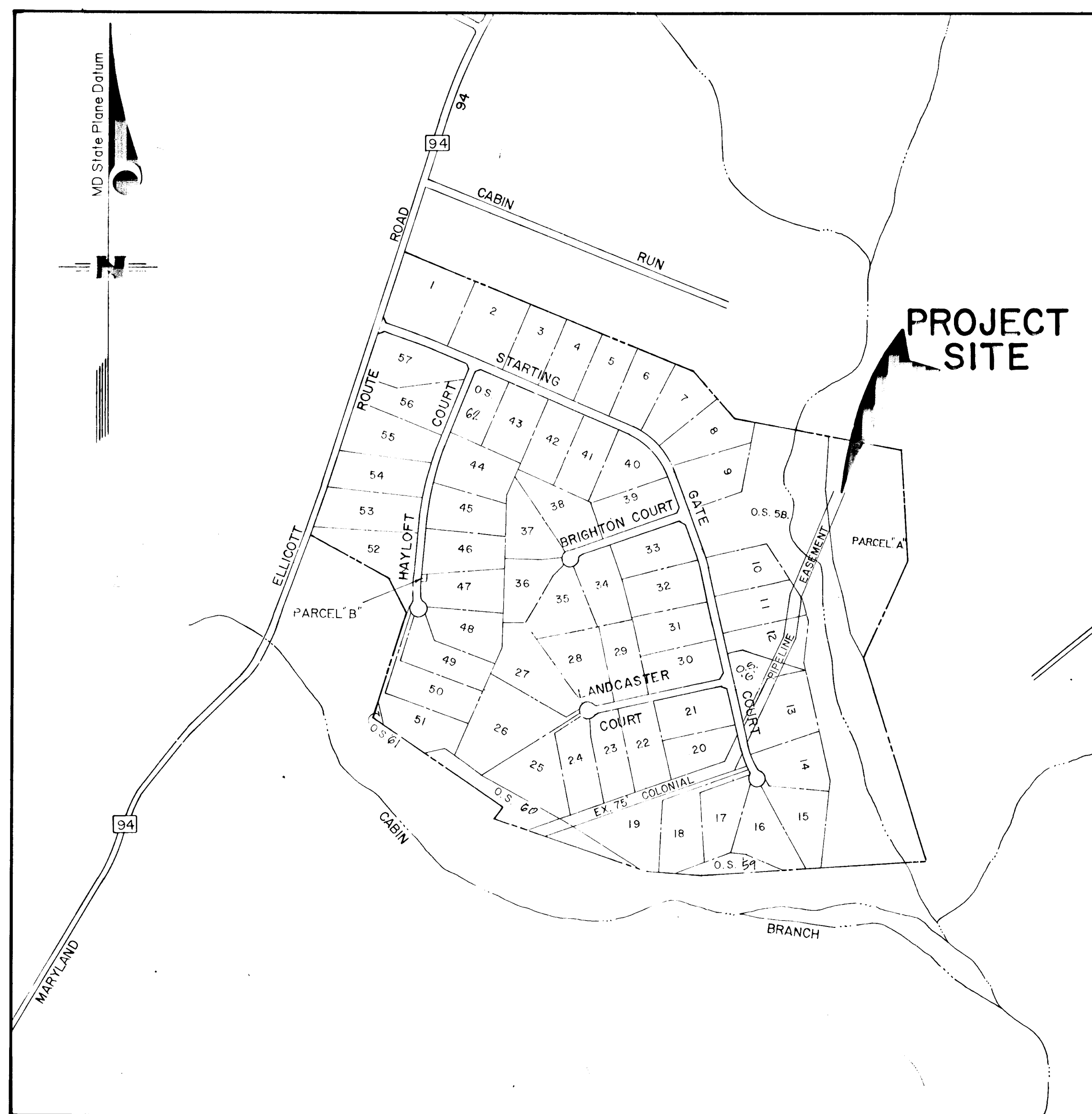
HOWARD COUNTY MONUMENT #3428001 - ELEV. CONCRETE MONUMENT 0.7' BELOW SURFACE. WEST SIDE OF MD. ROUTE 94, 146' SOUTH-WEST OF DRIVEWAY TO "TIMBERLEIGH FARM" N53°28'21.6" E 1765134.282'  
HOWARD COUNTY MONUMENT #3428002 - ELEV. 610.422 CONCRETE MONUMENT 0.5' BELOW SURFACE WEST SIDE OF MD. ROUTE 94, 229' NORTHEAST OF CENTERLINE OF TIMBERLEIGH WAY N53°45'59.816" E 1765937.104'



HOWARD COUNTY STREET MAP  
PAGE 7, GRID H-4,5,6  
PAGE J-4,5,6  
PAGE K-4,5,6  
**VICINITY MAP**  
Scale: 1" = 2,000'

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. (DESIGN MANUAL - VOL. IV)
- ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HOURS IN ADVANCE OF ANY CONSTRUCTION.
- STORM DRAINAGE TRENCHES WITHIN ROAD RIGHT-OF-WAYS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY CODE.
- ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO NOTIFY THE HOWARD COUNTY INSPECTIONS AND SURVEY DIVISION AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TELEPHONE 792-7272.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION; CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE.
- ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST ADDITION.



LOCATION MAP  
SCALE 1" = 600'

DEVELOPER'S CERTIFICATE

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MD DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

*Brian Johnson* 12/13/91  
DATE  
BRIAN JOHNSON (OWNER) IN FACT  
ANCHOR CAPITAL GROUP, INC.

ENGINEER'S CERTIFICATE

"I CERTIFY THAT THIS THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

*David C. B.* 12/12/91  
DATE  
DANIEL C. B. (P.E.)  
REGISTRATION NO. 11191

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

*James D. D.* 12/17/91  
DATE  
JAMES D. D. (P.E.)  
REGISTRATION NO. 11191

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*John R. Roberts* 12/17/91  
DATE  
JOHN R. ROBERTS (P.E.)  
REGISTRATION NO. 11191

APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING  
*Samuel Feldman* 1/5/92  
DATE  
SAMUEL FELDMAN (P.E.)  
REGISTRATION NO. 11191

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Alan M. Perryman* 1/8/92  
DATE  
ALAN M. PERRYMAN (P.E.)  
REGISTRATION NO. 11191

*Frank W. Wehner* 1/8/92  
DATE  
FRANK W. WEHNER (P.E.)  
REGISTRATION NO. 11191

*Kevin S. Ray* 1-20-92  
DATE  
KEVIN S. RAY (P.E.)  
REGISTRATION NO. 11191

NO.	REVISION	DATE
1	FOR HOWARD COUNTY COMMENTS DATED 1/14/89	12-15-90

**LSG LAND SERVICES GROUP, INC.**  
ENGINEERS • PLANNERS • SURVEYORS  
9801 Broken Land Parkway  
Suite 105  
Columbia, MD 21046  
Wash. (301) 621-8006  
Balt. (301) 995-6010  
Fax. (301) 995-6021

*David C. B.*  
REGISTERED PROFESSIONAL ENGINEER  
12/12/91

TITLE SHEET

OWNER / DEVELOPER  
ANCHOR CAPITAL GROUP, INC.  
210 MERRIMAC COURT  
O. BOX 2328  
PRINCE FREDERICK MD. 20678  
(301)-855-1216, (WASHINGTON)  
(301)-535-2107, (BALTIMORE/ANNAPOLIS)

**CABIN BRANCH FARM**  
LOTS 1 - 62 AND PARCELS A & B  
TAX MAP 13 PARCEL NO. 42  
FOURTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
PREVIOUS SUBMITTALS S-89-64, P-90-03,  
WP-89-103, WP-91-86

SURVEY: D.E.C.	DATE: SEPT, 1989
DESIGN: B.D.B.	SHEET: 1 OF 21
DRAWN: M.E.S.	FILE NO. 88-026
CHECKED: B.D.B.	
SCALE: AS SHOWN	

REVISIONS		
DATE	BY	DESCRIPTION
12-15-90	LSG	PER HOWARD COUNTY COMMENTS 11-14-89

OWNER / DEVELOPER  
 ANCHOR CAPITAL GROUP, INC.  
 210 MERRIMAC COURT  
 P.O. BOX 2328  
 PRINCE FREDERICK MD. 20678  
 (301)-855-1816, (WASHINGTON)  
 (301)-535-2107, (BALTIMORE/ANNAPOLIS)

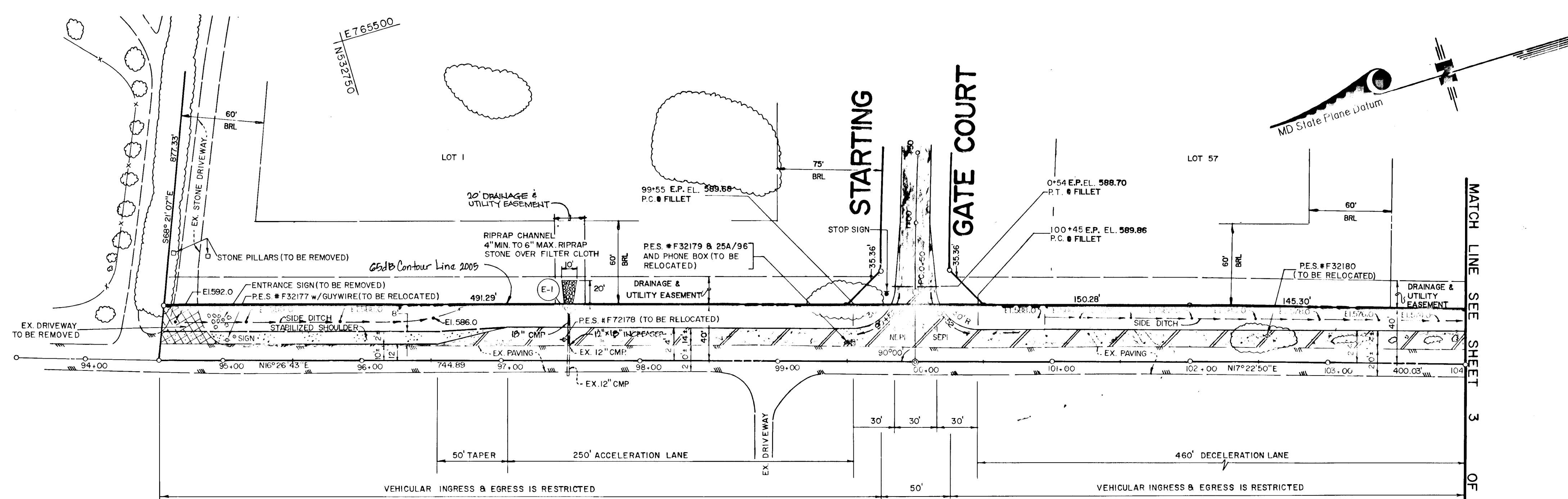
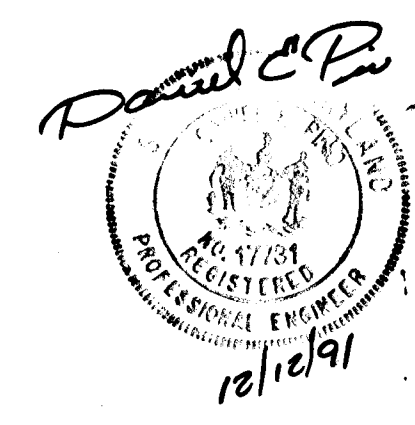
**ROAD CONSTRUCTION PLAN  
 GRADE ESTABLISHMENT PLAN  
 MD. ROUTE 94  
 (ELLICOTT ROAD)  
 STA. 94+55.11 TO STA. 104+00  
 CABIN BRANCH FARM  
 FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND**

Scale As Shown September, 89

**LSG LAND SERVICES GROUP, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS

9801 Broken Land Parkway Suite 105 Columbia, MD 21046  
 Wash. (301) 621-8006  
 Balt. (301) 995-6010  
 Fax. (301) 995-6021

Job No. 88-026  
 Sheet No. 2 of 21



PLAN  
 SUPERVISOR: [Signature]  
 CHECKED: [Signature]  
 DATE: 2/5/92

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
 [Signature] DATE 2/5/92  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 [Signature] DATE 1/10/92  
 CHIEF, LAND DEVELOPMENT DIVISION

[Signature] DATE 1/8/92  
 CHIEF, BUREAU OF HIGHWAYS

[Signature] DATE 1-21-92  
 CHIEF, BUREAU OF ENGINEERING

**MARYLAND**

PAVING LEGEND

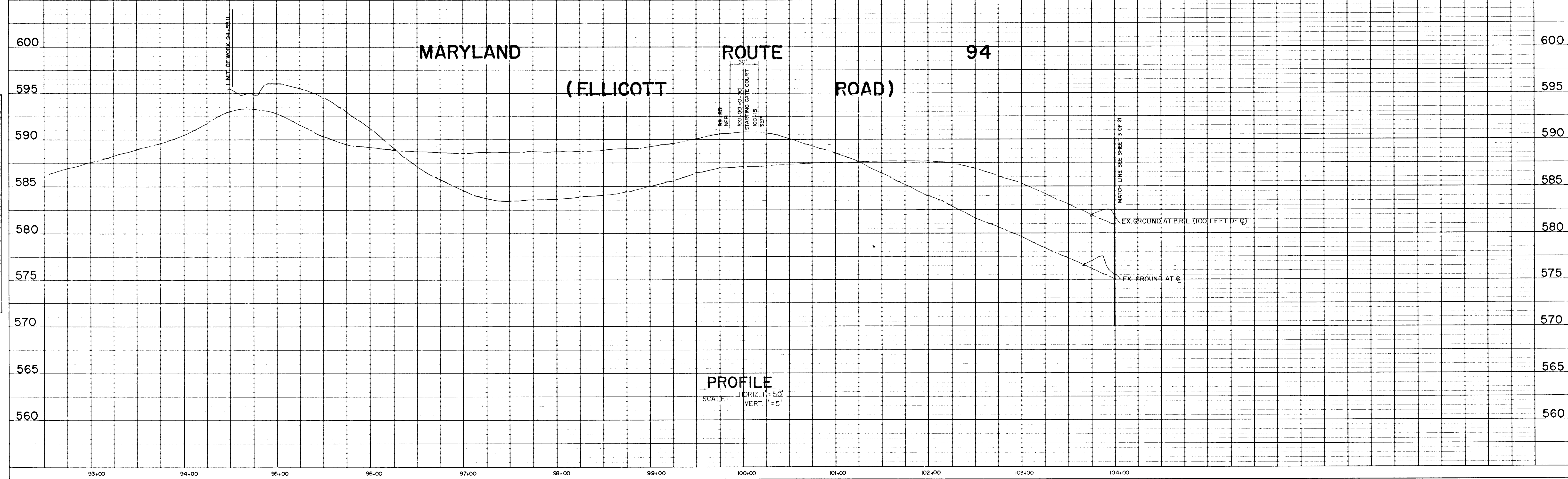
- SHA PAVING SECTION
- HOWARD COUNTY PAVING SECTION
- STABILIZED SHOULDER
- PAVEMENT OR DRIVEWAY REMOVAL

--- G&B Contour Line 2005

**ROUTE 94 (ELLICOTT ROAD)**

PLAN  
 SCALE: 1" = 50'

\*NOTE FOR CONVEYER PROFILES  
 SEE SHEET 13 OF 21



PROFILE  
 SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 5'

PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE

MD. ROUTE 94 (ELLICOTT ROAD)

F-90-68

1635



REVISIONS		
DATE	BY	DESCRIPTION
12-15-90	LSG	PER HOWARD COUNTY COMMENTS 11-14-89

OWNER / DEVELOPER  
 ANCHOR CAPITAL GROUP, INC.  
 210 MERRIMAC COURT  
 P.O. BOX 2328  
 PRINCE FREDERICK MD. 20678  
 (301)-855-1916, (WASHINGTON)  
 (301)-535-2107, (BALTIMORE/ANNAPOLIS)

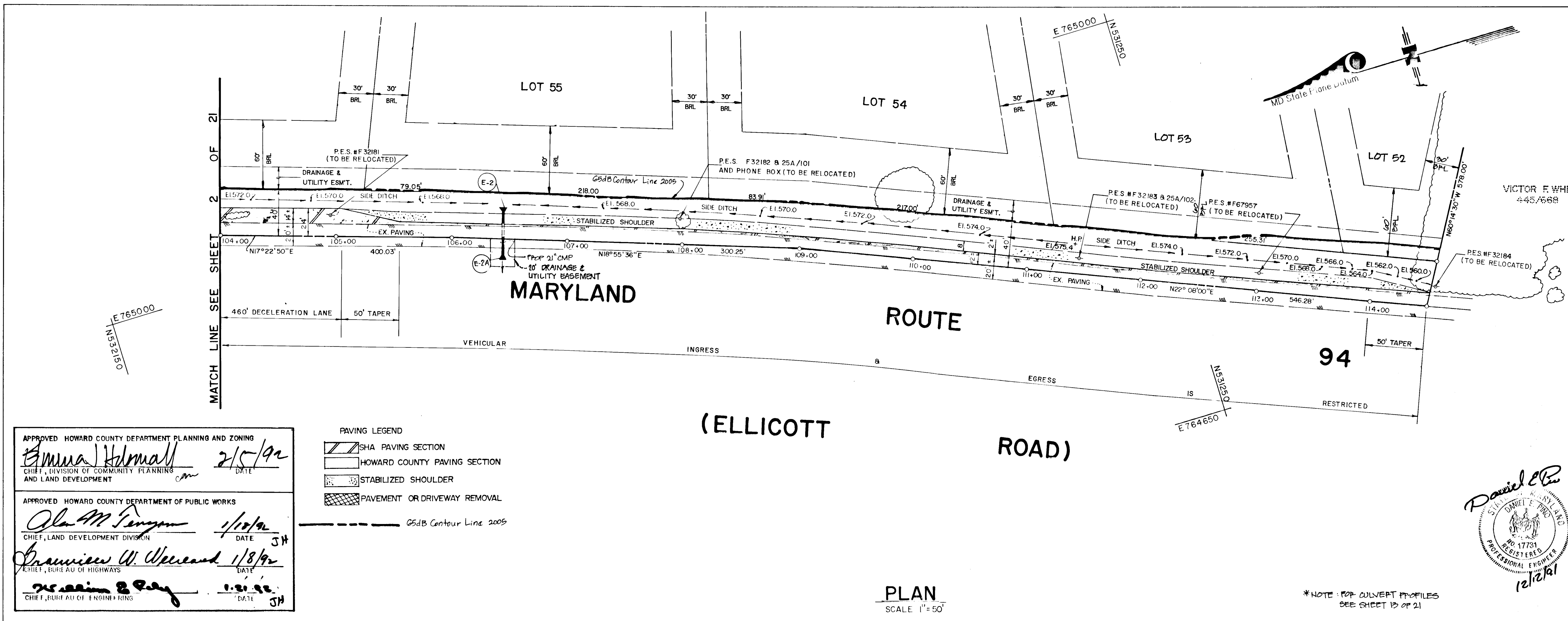
**ROAD CONSTRUCTION PLAN  
 GRADE ESTABLISHMENT PLAN  
 MD. ROUTE 94  
 (ELLICOTT ROAD)  
 STA. 104+00 TO STA. 114+46.56  
 CABIN BRANCH FARM  
 FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND**

Scale As Shown September, 89

**LSG LAND SERVICES GROUP, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS

9801 Broken Land Parkway Suite 105 Columbia, MD 21046  
 Wash. (301) 821-8006  
 Balt. (301) 995-6010  
 Fax: (301) 995-6021

Job No. 88-026  
 Sheet No. 3 Of 21



PLAN SURVEYED BY DATE  
 NOTED BY CHECKED  
 NOTE BOOK No. BY OF WAY CHECKED

APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING  
*Anna Holm* 2/5/92 DATE  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Alan M. Ferguson* 1/18/92 DATE  
 CHIEF, LAND DEVELOPMENT DIVISION

*Lawrence W. Weiland* 1/8/92 DATE  
 CHIEF, BUREAU OF HIGHWAYS

*William E. Ray* 1/31/92 DATE  
 CHIEF, BUREAU OF ENGINEERING

PAVING LEGEND  
 SHA PAVING SECTION  
 HOWARD COUNTY PAVING SECTION  
 STABILIZED SHOULDER  
 PAVEMENT OR DRIVEWAY REMOVAL

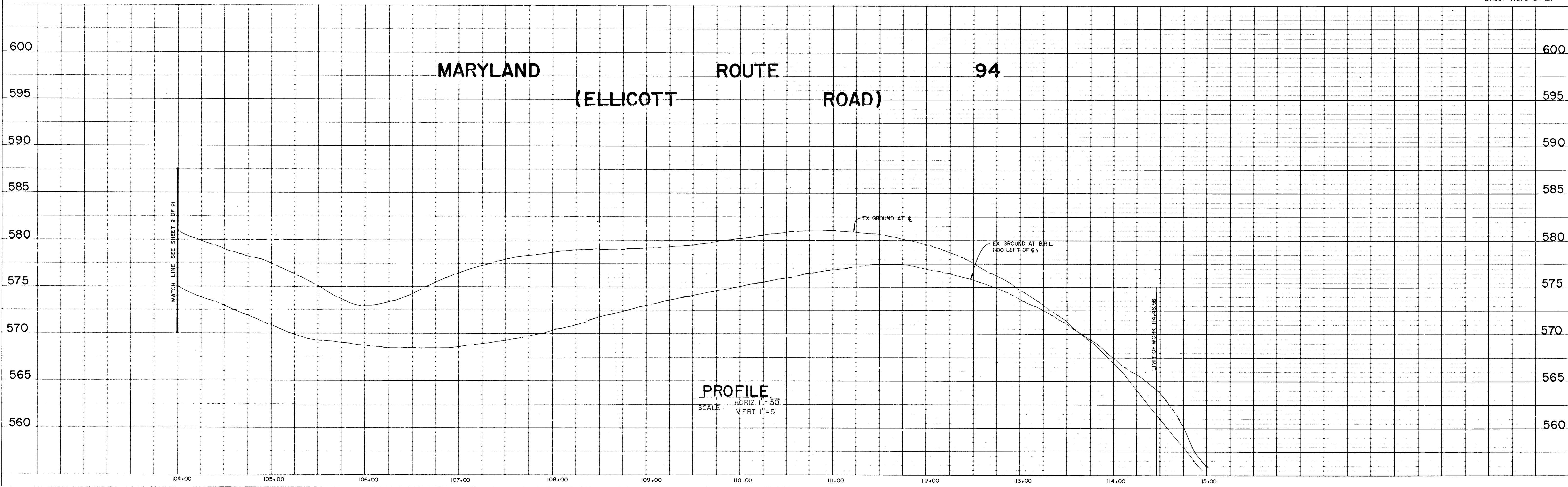
65dB Contour Line 2009



PLAN  
 SCALE 1" = 50'

\* NOTE: 12" CULVERT PROFILES  
 SEE SHEET 13 OF 21

1635



PROFILE  
 SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 5'

PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE  
 PRINTED IN U.S.A.

MD. ROUTE 94 (ELLICOTT ROAD)

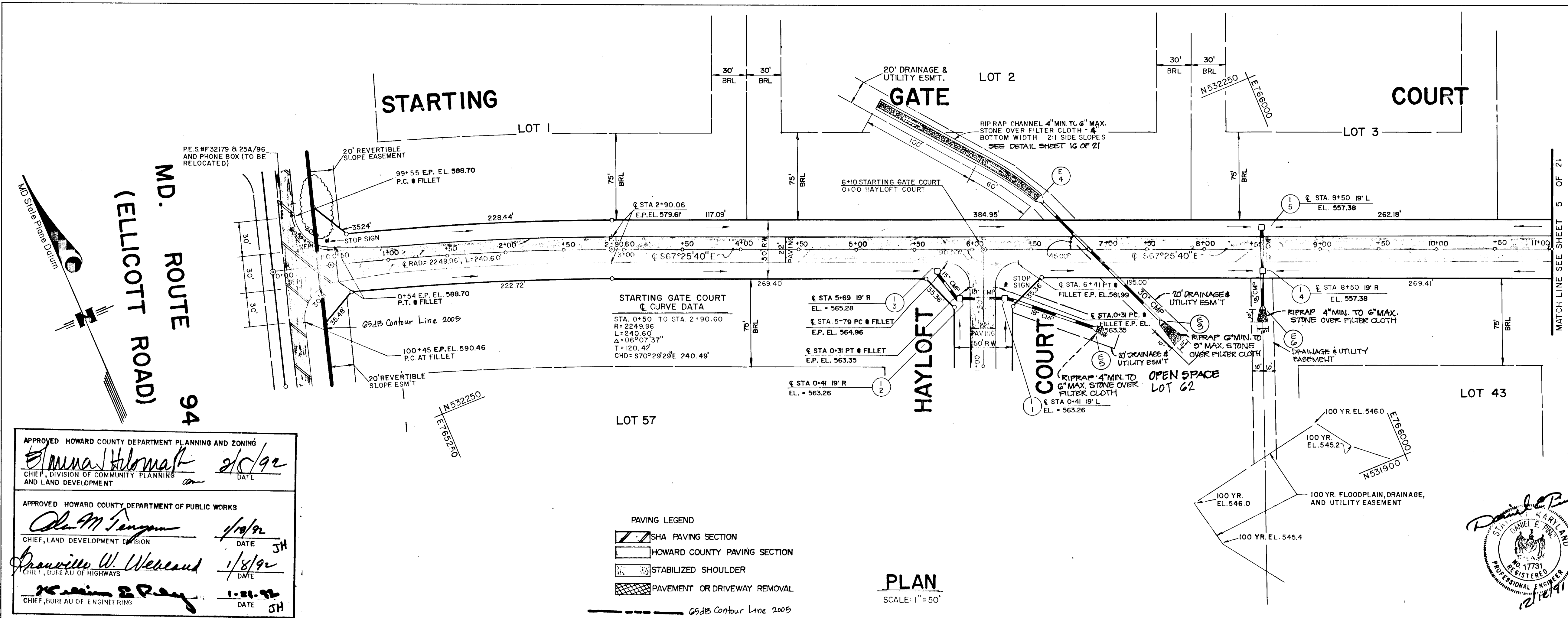
F-90-68

REVISIONS		
DATE	BY	DESCRIPTION
12-15-90	LSG	PER HOWARD COUNTY COMMENTS 1-14-89

OWNER / DEVELOPER  
 ANCHOR CAPITAL GROUP, INC.  
 210 MERRIMAC COURT  
 P.O. BOX 2328  
 PRINCE FREDERICK MD. 20678  
 (301)-855-1816, (WASHINGTON)  
 (301)-535-2107, (BALTIMORE/ANNAPOLIS)

**ROAD CONSTRUCTION PLAN**  
**GRADE ESTABLISHMENT PLAN**  
**STARTING GATE COURT**  
 STA 0+00 TO 11+00  
**CABIN BRANCH FARM**  
 FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 Scale As Shown September, 89  
**LSG LAND SERVICES GROUP, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS

9801 Broken Land Parkway  
 Suite 105  
 Columbia, MD 21046  
 Wash. (301) 621-8006  
 Balt. (301) 995-6010  
 Fax. (301) 995-6021



PLAN  
 SURVEYED BY DATE  
 NOTE BOOK ALIGNMENT CHECKED  
 B.M.'S NOTED  
 STRUCTURE NOTATIONS CHECKED

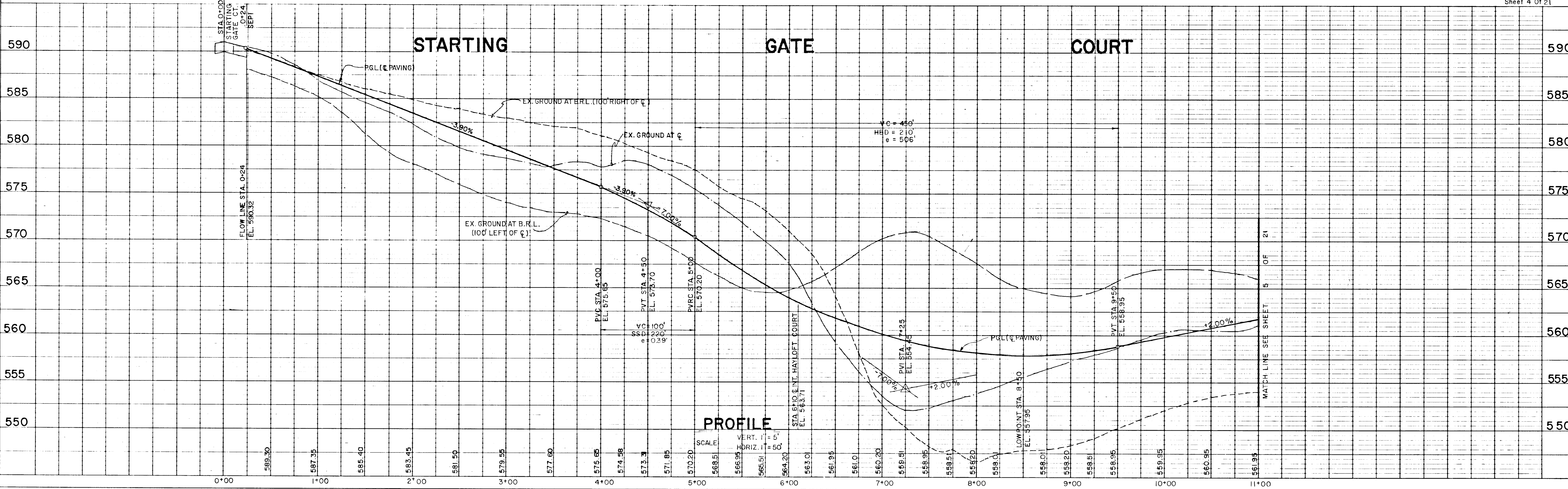
APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING  
*Anna Helms* 2/6/92  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
 APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Alan M. Ferguson* 1/19/92  
 CHIEF, LAND DEVELOPMENT DIVISION  
*Franklin W. Weiland* 1/18/92  
 CHIEF, BUREAU OF HIGHWAYS  
*William E. Ray* 1-21-89  
 CHIEF, BUREAU OF ENGINEERING

PAVING LEGEND  
 [Symbol] ASHA PAVING SECTION  
 [Symbol] HOWARD COUNTY PAVING SECTION  
 [Symbol] STABILIZED SHOULDER  
 [Symbol] PAVEMENT OR DRIVEWAY REMOVAL  
 --- G&B Contour Line 2005

PLAN  
 SCALE: 1" = 50'

Job No. 88-026  
 Sheet 4 of 21

1635



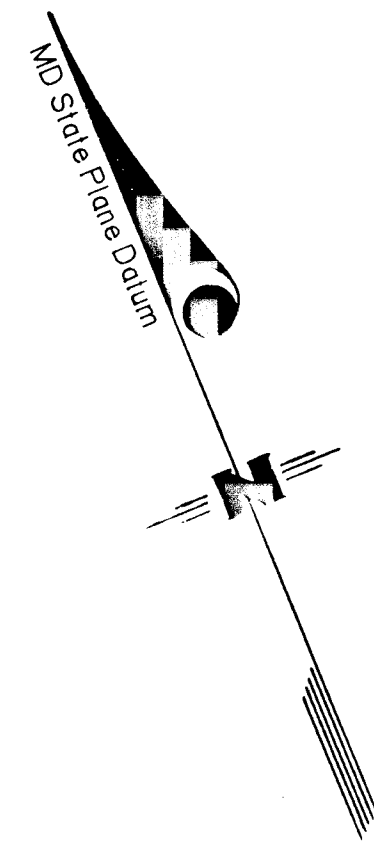
PROFILE  
 SCALE: VERT. 1" = 5'  
 HORIZ. 1" = 50'

PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE  
 PRINTED IN U.S.A.

STARTING GATE COURT

F-90-68





REVISIONS		
DATE	BY	DESCRIPTION
12-15-90	LSG	PER HOWARD COUNTY COMMENTS 11-14-89

OWNER / DEVELOPER  
 ANCHOR CAPITAL GROUP, INC.  
 210 MERRIMAC COURT  
 P.O. BOX 2328  
 PRINCE FREDERICK MD. 20678  
 (301)-855-1816, (WASHINGTON)  
 (301)-535-2107, (BALTIMORE/ANNAPOLIS)

**ROAD CONSTRUCTION PLAN  
 GRADE ESTABLISHMENT PLAN  
 STARTING GATE COURT  
 STA. 11+00 TO 22+00  
 CABIN BRANCH FARM  
 FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND**  
 Scale As Shown September, 89

**LSG LAND SERVICES GROUP, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS  
 9801 Broken Land Parkway  
 Suite 105  
 Columbia, MD 21046  
 Wash. (301) 621-8006  
 Balt. (301) 995-6010  
 Fax. (301) 995-6021

Job No. 88 C26  
 Sheet 5 of 21

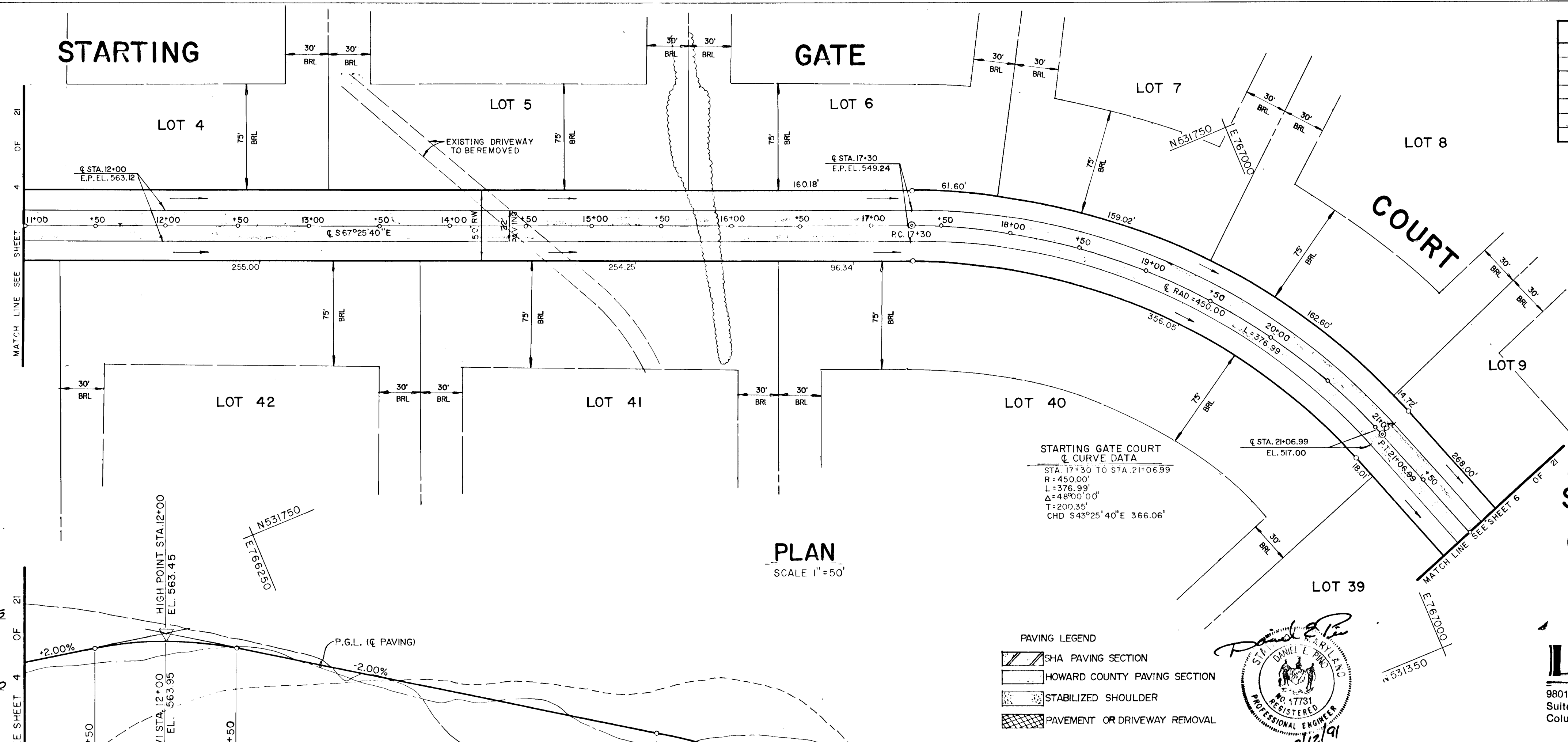
PLAN  
 SURVEYED BY DATE  
 PLOTTED BY  
 NOTE BOOK No. OF WAY CHECKED  
 No. OF WAY CHECKED

APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING  
*Bluma J. Kilmath* 2/5/92  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
 DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Alan M. Ferguson* 1/14/92  
 CHIEF, LAND DEVELOPMENT DIVISION  
 DATE

*Francis W. Woodard* 1/8/92  
 CHIEF, BUREAU OF HIGHWAYS  
 DATE

*William J. Ray* 1-22-92  
 CHIEF, BUREAU OF ENGINEERING  
 DATE



PROFILE  
 SURVEYED BY DATE  
 PLOTTED BY  
 NOTE BOOK No. OF WAY CHECKED  
 No. OF WAY CHECKED

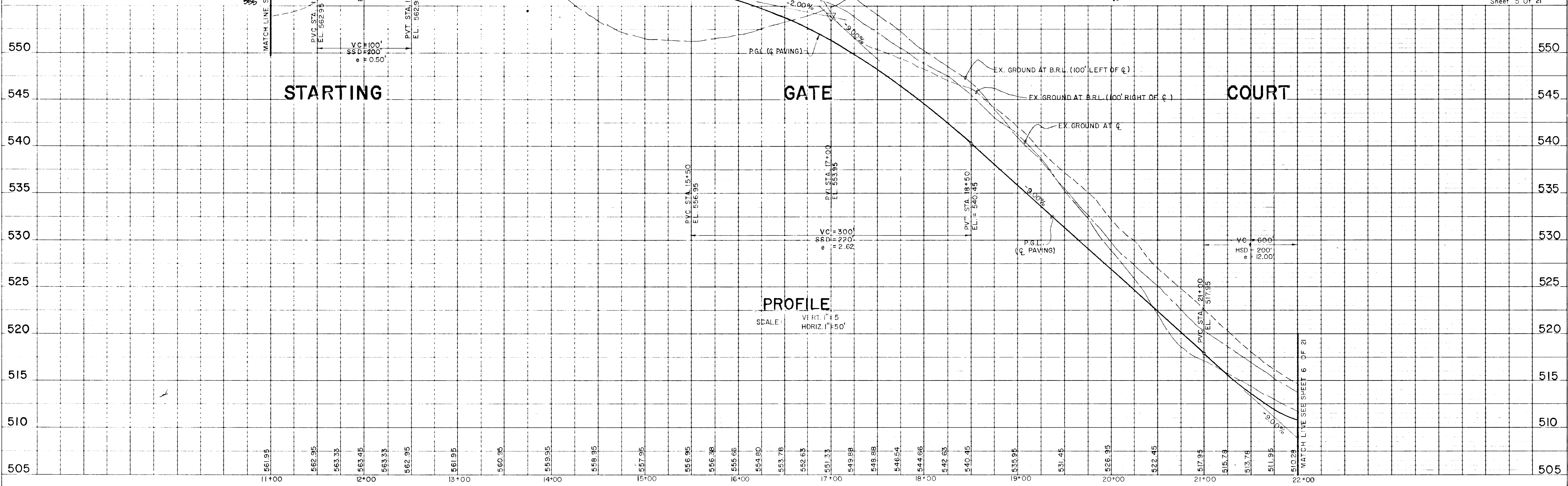
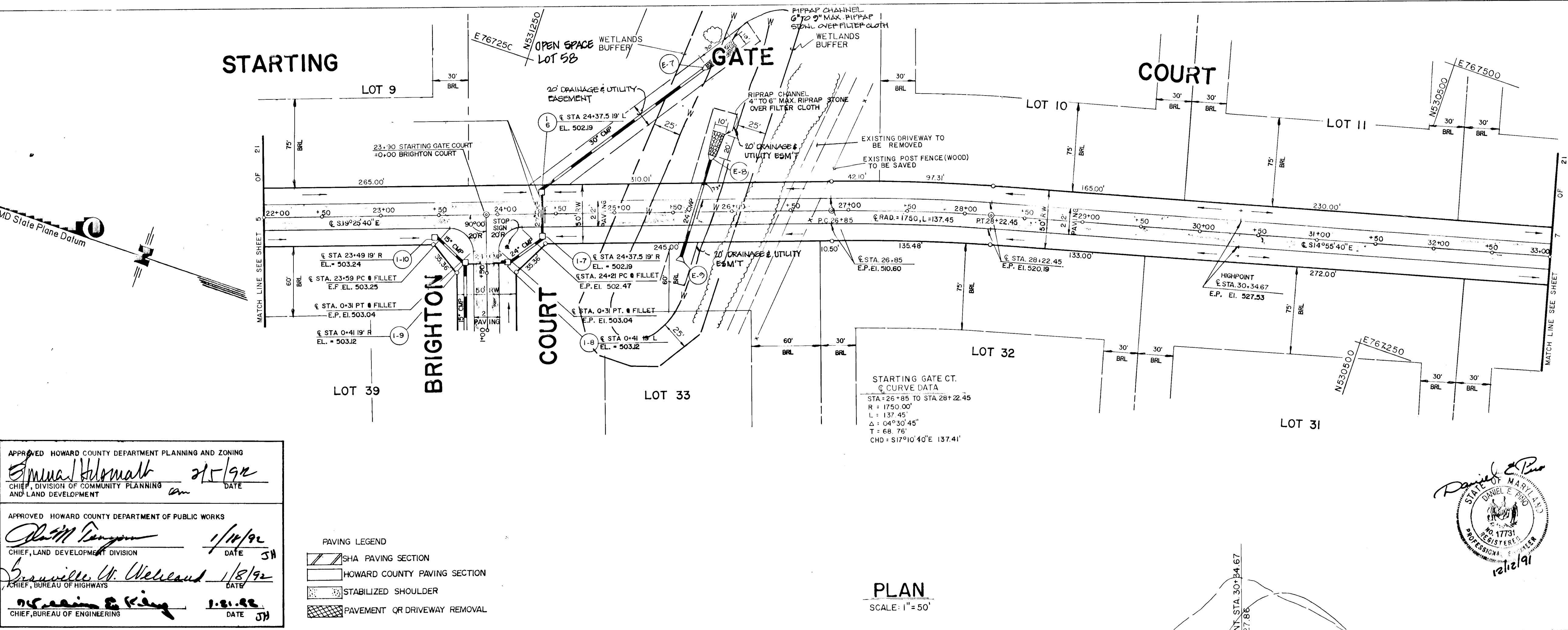


PLATE 1-SINGLE PLAN AND PROFILE FULL LINE  
 PRINTED IN U.S.A.

1635

PLAN  
 SURVEYED BY DATE  
 NOTE BOOK ALIGNED CHECKED  
 NO. BY DATE  
 ET. OF WAY CHECKED



REVISIONS		
DATE	BY	DESCRIPTION
12-15-90	LSG	PER HOWARD COUNTY COMMENTS 1-14-89

OWNER / DEVELOPER  
 ANCHOR CAPITAL GROUP, INC.  
 210 MERRIMAC COURT  
 P.O. BOX 2328  
 PRINCE FREDERICK MD. 20678  
 (301)-855-1816, (WASHINGTON)  
 (301)-535-2107, (BALTIMORE/ANNAPOLIS)

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*Amal Holmalk* 2/5/92  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Clifford Thompson* 1/14/92  
 CHIEF, LAND DEVELOPMENT DIVISION

*James W. Welwood* 1/8/92  
 CHIEF, BUREAU OF HIGHWAYS

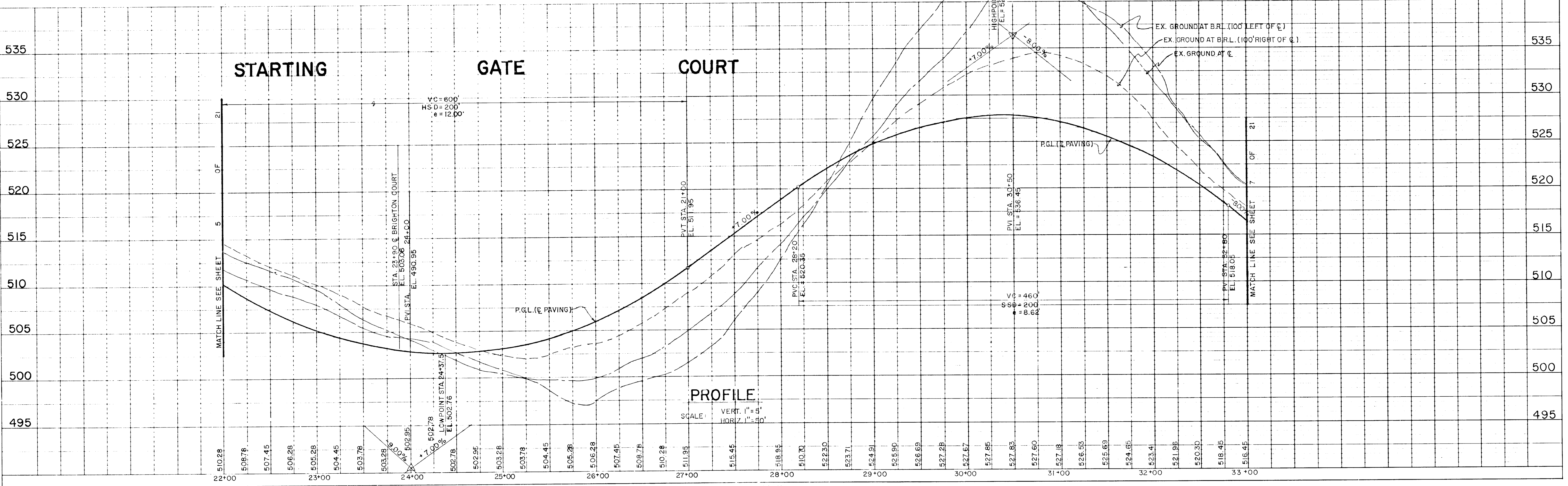
*William E. King* 1-8-92  
 CHIEF, BUREAU OF ENGINEERING



ROAD CONSTRUCTION PLAN  
 GRADE ESTABLISHMENT PLAN  
**STARTING GATE COURT**  
 STA. 22+00 TO 33+00  
**CABIN BRANCH FARM**  
 FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 Scale As Shown September, 89

**LSG LAND SERVICES GROUP, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS  
 9801 Broken Land Parkway Suite 105 Columbia, MD 21046  
 Wash. (301) 621-8006  
 Balt. (301) 995-6010  
 Fax. (301) 995-6021

PROFILE  
 SURVEYED BY DATE  
 NOTE BOOK GRADES CHECKED  
 NO. BY DATE  
 STRUCTURE NOTATIONS CHECKED



1635



REVISIONS		
DATE	BY	DESCRIPTION
12-15-90	LSG	PER HOWARD COUNTY COMMENTS 1/14/89

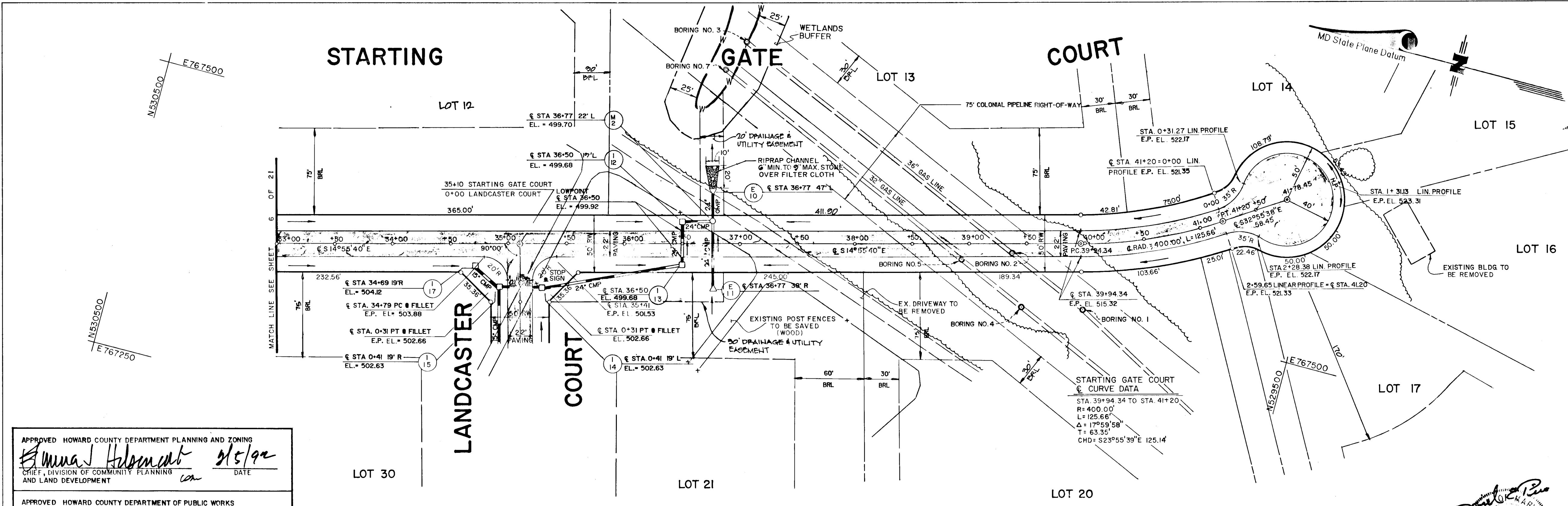
OWNER / DEVELOPER  
 ANCHOR CAPITAL GROUP, INC.  
 210 MERRIMAC COURT  
 P.O. BOX 2328  
 PRINCE FREDERICK MD. 20678  
 (301)-855-1816, (WASHINGTON)  
 (301)-535-2107, (BALTIMORE/ANNAPOLIS)

ROAD CONSTRUCTION PLAN  
 GRADE ESTABLISHMENT PLAN  
**STARTING GATE COURT**  
 STA 33+00 TO 41+78.45  
**CABIN BRANCH FARM**  
 FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 Scale As Shown September, 89

**LSG** LAND SERVICES GROUP, INC.  
 ENGINEERS • PLANNERS • SURVEYORS

9801 Broken Land Parkway  
 Suite 105  
 Columbia, MD 21046  
 Wash. (301) 621-8006  
 Balt. (301) 995-6010  
 Fax. (301) 995-6021

Job No. 88-026  
 Sheet 7 of 21



PLAN  
 SCALE 1"=50'

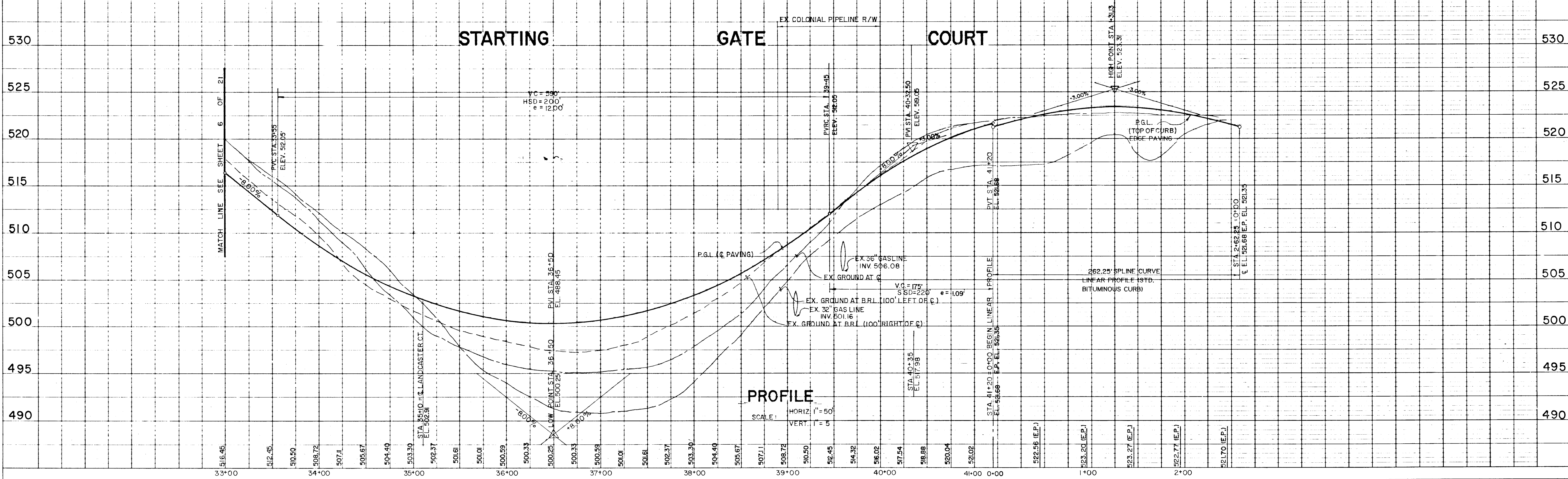
APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING  
*Anna J. Hensel* 5/5/92  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*John M. Penson* 1/10/92  
 CHIEF, LAND DEVELOPMENT DIVISION

*Dr. William W. Wehland* 1/8/92  
 CHIEF, BUREAU OF HIGHWAYS

*William E. King* 1-21-92  
 CHIEF, BUREAU OF ENGINEERING

- PAVING LEGEND
- SHA PAVING SECTION
  - HOWARD COUNTY PAVING SECTION
  - STABILIZED SHOULDER
  - PAVEMENT OR DRIVEWAY REMOVAL
  - COLONIAL PIPELINE TEST BORING



PROFILE  
 SCALE: HORIZ. 1"=50'  
 VERT. 1"=5'

HIGHWAY FEDERAL AID SHEET  
 PLATE 1-SINGLE PLAN AND PROFILE FULL LINE  
 TELETYPE  
 PRINTED IN U.S.A.

STARTING GATE COURT

F-90-68

1635

REVISIONS		
DATE	BY	DESCRIPTION
12-15-90	LSG	PER HOWARD COUNTY COMMENTS 11-14-89

OWNER / DEVELOPER  
 ANCHOR CAPITAL GROUP, INC.  
 210 MERRIMAC COURT  
 P.O. BOX 2328  
 PRINCE FREDERICK MD. 20678  
 (301)-855-1816, (WASHINGTON)  
 (301)-535-2107, (BALTIMORE/ANNAPOLIS)

**ROAD CONSTRUCTION PLAN  
 GRADE ESTABLISHMENT PLAN**

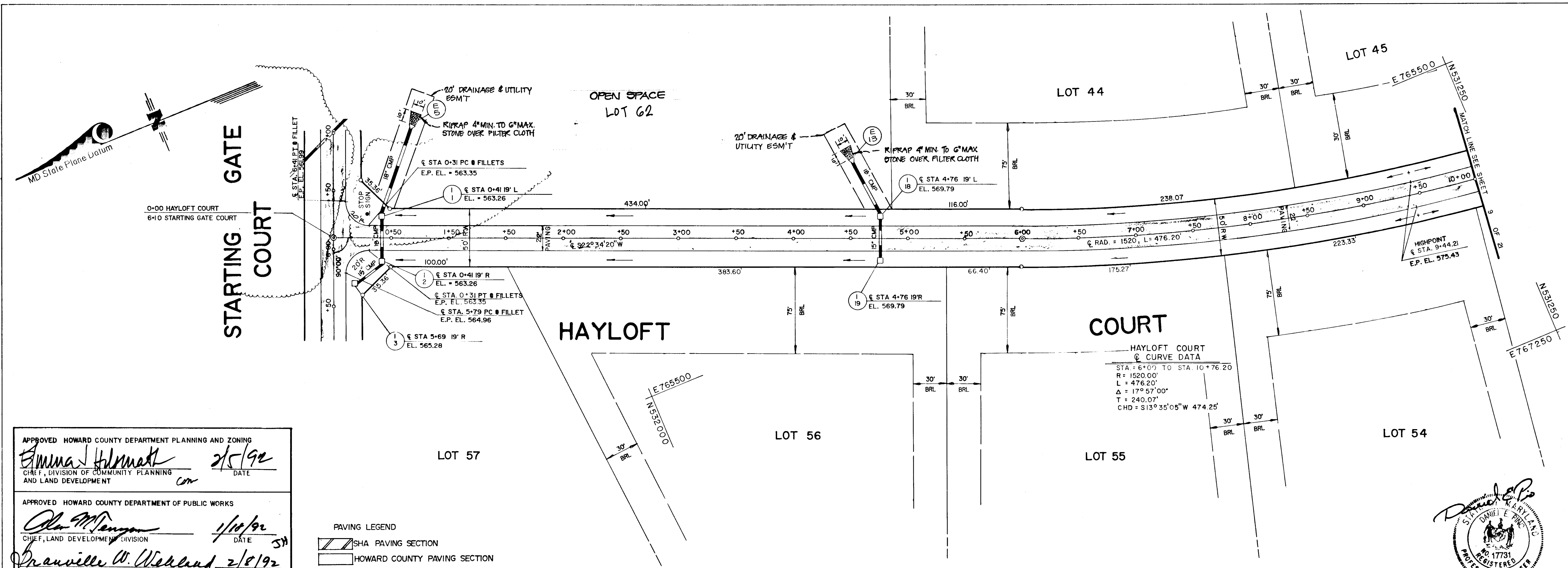
**HAYLOFT COURT  
 STA. 0+00 TO 10+00  
 CABIN BRANCH FARM  
 FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND**

Scale As Shown      September, 89

**LSG LAND SERVICES GROUP, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS

9801 Broken Land Parkway      Wash. (301) 621-8006  
 Suite 105      Balt. (301) 995-6010  
 Columbia, MD 21046      Fax. (301) 995-6021

Job No. 88-026  
 Sheet No. 8 OF 21



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

APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING  
*Emma J. Holmatt* 2/5/92  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

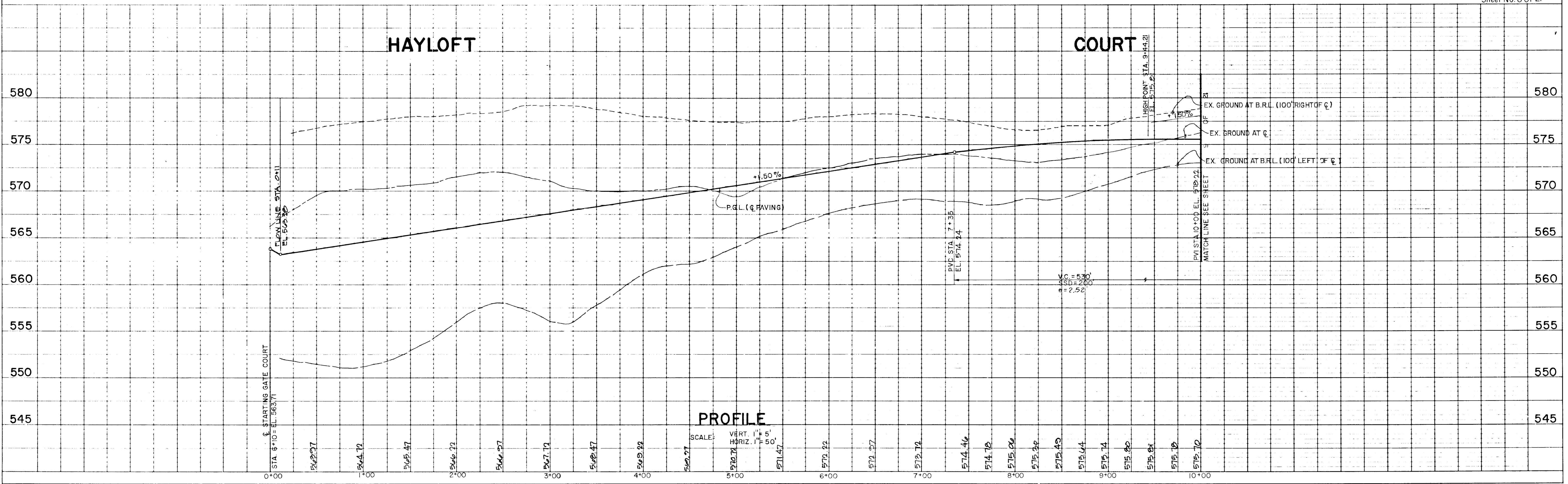
APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*John M. Penson* 1/10/92  
 CHIEF, LAND DEVELOPMENT DIVISION

*Granville W. Weiland* 2/8/92  
 CHIEF, BUREAU OF HIGHWAYS

*William B. Ray* 1-21-92  
 CHIEF, BUREAU OF ENGINEERING

**PAVING LEGEND**

- SHA PAVING SECTION
- HOWARD COUNTY PAVING SECTION
- STABILIZED SHOULDER
- PAVEMENT OR DRIVEWAY REMOVAL



**PROFILE**  
 SCALE: VERT. 1"=5'  
 HORIZ. 1"=50'

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE  
 PRINTED IN U.S.A.

HAYLOFT COURT

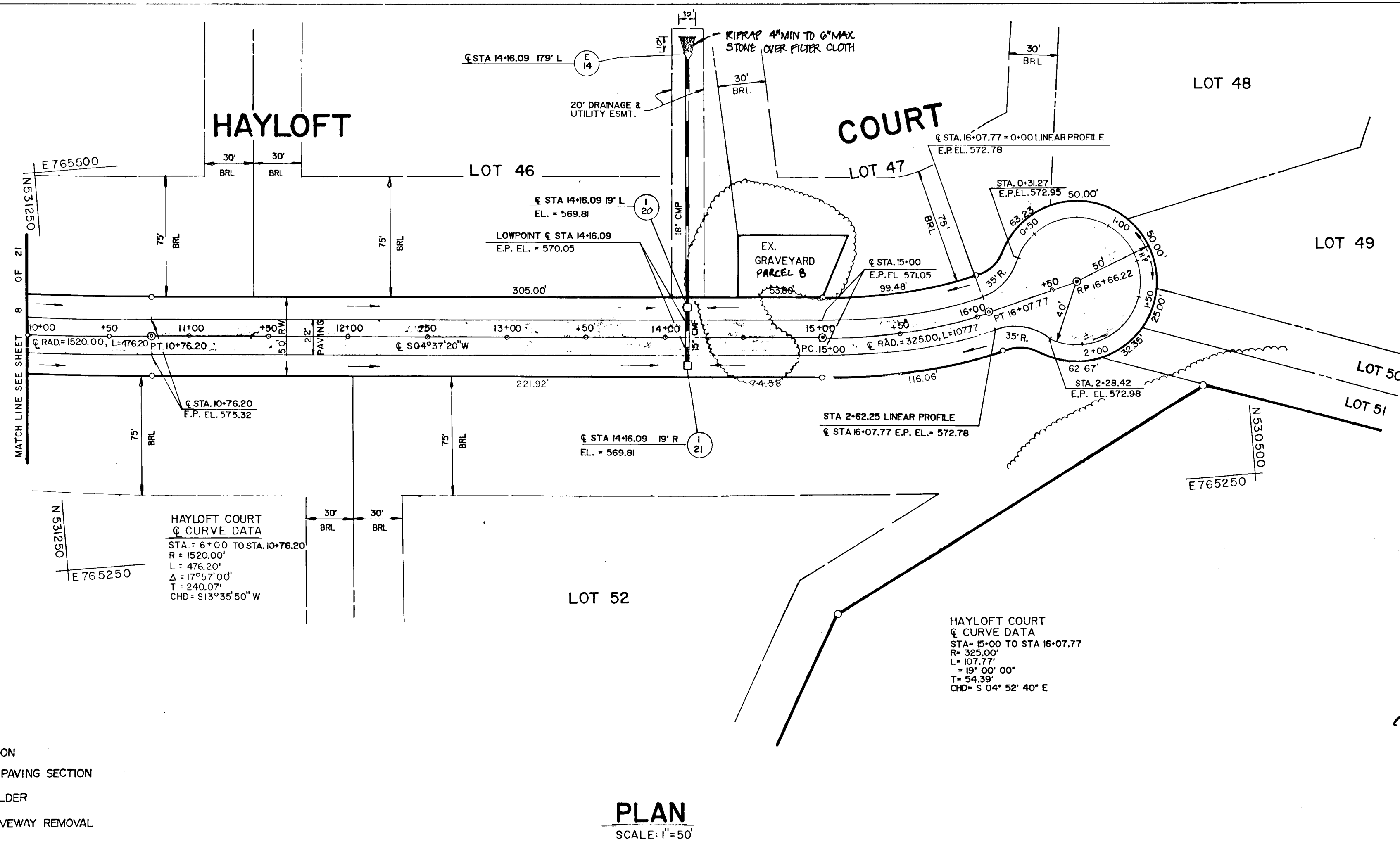
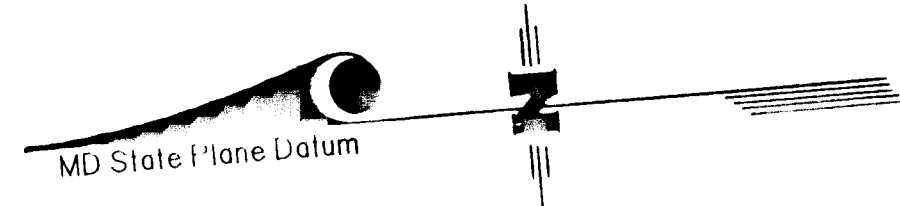
F-90-68

1635

PLAN SUBMITTED BY DATE  
 REVISIONS  
 1. NOTED BY DATE  
 2. BY DATE  
 3. BY DATE  
 4. BY DATE  
 5. BY DATE

PROFILE SUBMITTED BY DATE  
 REVISIONS  
 1. NOTED BY DATE  
 2. BY DATE  
 3. BY DATE  
 4. BY DATE  
 5. BY DATE





PLAN  
SCALE: 1"=50'

REVISIONS		
DATE	BY	DESCRIPTION
12-15-90	LSG	PER HOWARD COUNTY COMMENTS 11-14-89

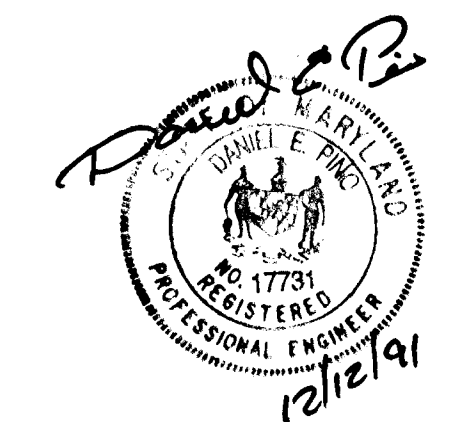
OWNER / DEVELOPER  
ANCHOR CAPITAL GROUP, INC.  
210 MERRIMAC COURT  
P.O. BOX 2328  
PRINCE FREDERICK MD, 20678  
(301)-855-1816, (WASHINGTON)  
(301)-535-2107, (BALTIMORE/ANNAPOLIS)

**ROAD CONSTRUCTION PLAN  
GRADE ESTABLISHMENT PLAN  
HAYLOFT COURT  
STA. 10+00 TO 16+66.22  
CABIN BRANCH FARM  
FOURTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND**

Scale As Shown September, 89

**LSG LAND SERVICES GROUP, INC.**  
ENGINEERS • PLANNERS • SURVEYORS

9801 Broken Land Parkway Suite 105 Columbia, MD 21046 Wash. (301) 621-6006 Balt. (301) 995-6010 Fax. (301) 995-6021



APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*Emma Helms* 2/5/92  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

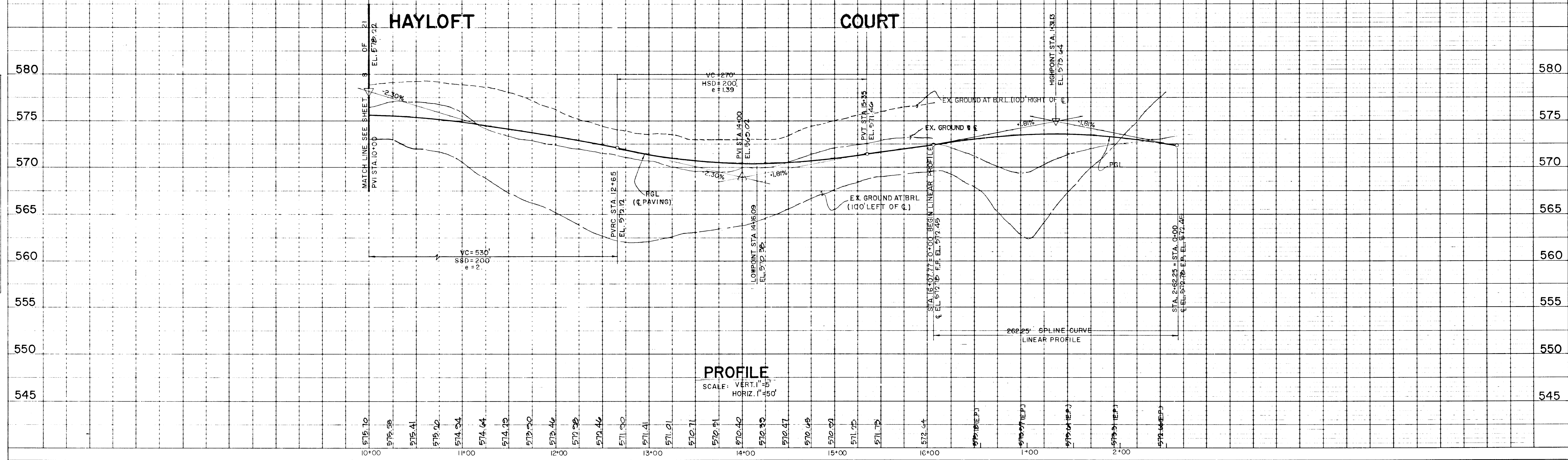
APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Alan M. Deming* 1/14/92  
CHIEF, LAND DEVELOPMENT DIVISION

*Lawrence W. Weland* 1/8/92  
CHIEF, BUREAU OF HIGHWAYS

*William S. Kelly* 1-21-92  
CHIEF, BUREAU OF ENGINEERING

PAVING LEGEND

	SHA PAVING SECTION
	HOWARD COUNTY PAVING SECTION
	STABILIZED SHOULDER
	PAVEMENT OR DRIVEWAY REMOVAL



PROFILE  
SCALE: VERT. 1"=5'  
HORIZ. 1"=50'

ROADWAY (SEE SEPARATE SHEET)  
PLATE 1-SINGLE PLAN AND PROFILE-FULL LINE  
PRINTED IN U.S.A.

HAYLOFT COURT

F-90-68

1635

REVISIONS		
DATE	BY	DESCRIPTION
12-15-90	LSG	PER HOWARD COUNTY COMMENTS 1/14-89

OWNER / DEVELOPER  
 ANCHOR CAPITAL GROUP, INC.  
 210 MERRIMAC COURT  
 P.O. BOX 2328  
 PRINCE FREDERICK MD. 20678  
 (301)-855-1816, (WASHINGTON)  
 (301)-535-2107, (BALTIMORE/ANNAPOLIS)

ROAD CONSTRUCTION PLAN  
 GRADE ESTABLISHMENT PLAN

**BRIGHTON COURT**  
 STA. 0+00 TO 8+19.49  
**CABIN BRANCH FARM**  
 FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

Scale As Shown September, 89

**LSG LAND SERVICES GROUP, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS

9801 Broken Land Parkway Suite 105 Columbia, MD 21046  
 Wash. (301) 621-8006  
 Balt. (301) 995-6010  
 Fax. (301) 995-6021

Job No. 88-026  
 Sheet 10 of 21

PLAN  
 SURVEYED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 REVISIONS CHECKED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*Amnah Helmut* 2/5/92  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

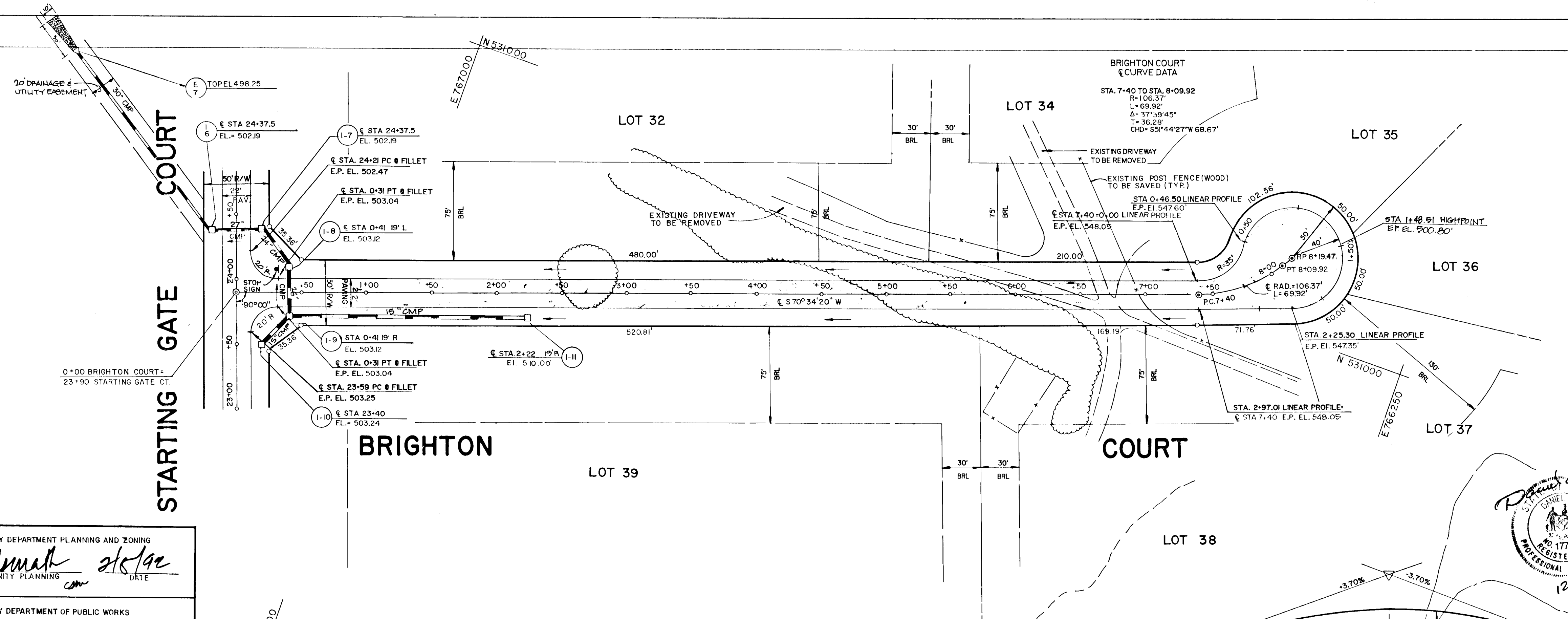
APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*John M. Ferguson* 1/18/92  
 CHIEF, LAND DEVELOPMENT DIVISION

*Braville W. Wescott* 1/8/92  
 CHIEF, BUREAU OF HIGHWAYS

*William E. Ray* 1-22-92  
 CHIEF, BUREAU OF ENGINEERING

- PAVING LEGEND
- SHA PAVING SECTION
  - HOWARD COUNTY PAVING SECTION
  - STABILIZED SHOULDER
  - PAVEMENT OR DRIVEWAY REMOVAL

PLAN  
 SCALE: 1"=50'



PROFILE  
 SURVEYED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 REVISIONS CHECKED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

PROFILE  
 SCALE: VERT. 1"=5' HORIZ. 1"=50'

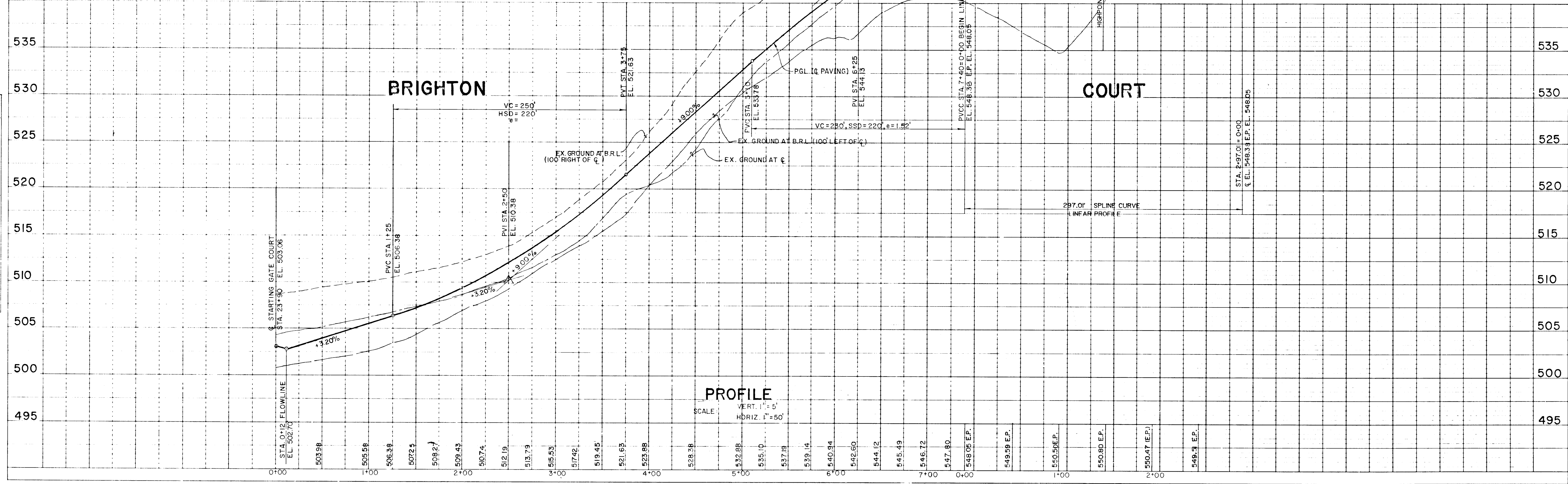


PLATE 1-SINGLE PLAN AND PROFILE FULL LINE  
 DRAWING TELEPHONE 444-4444

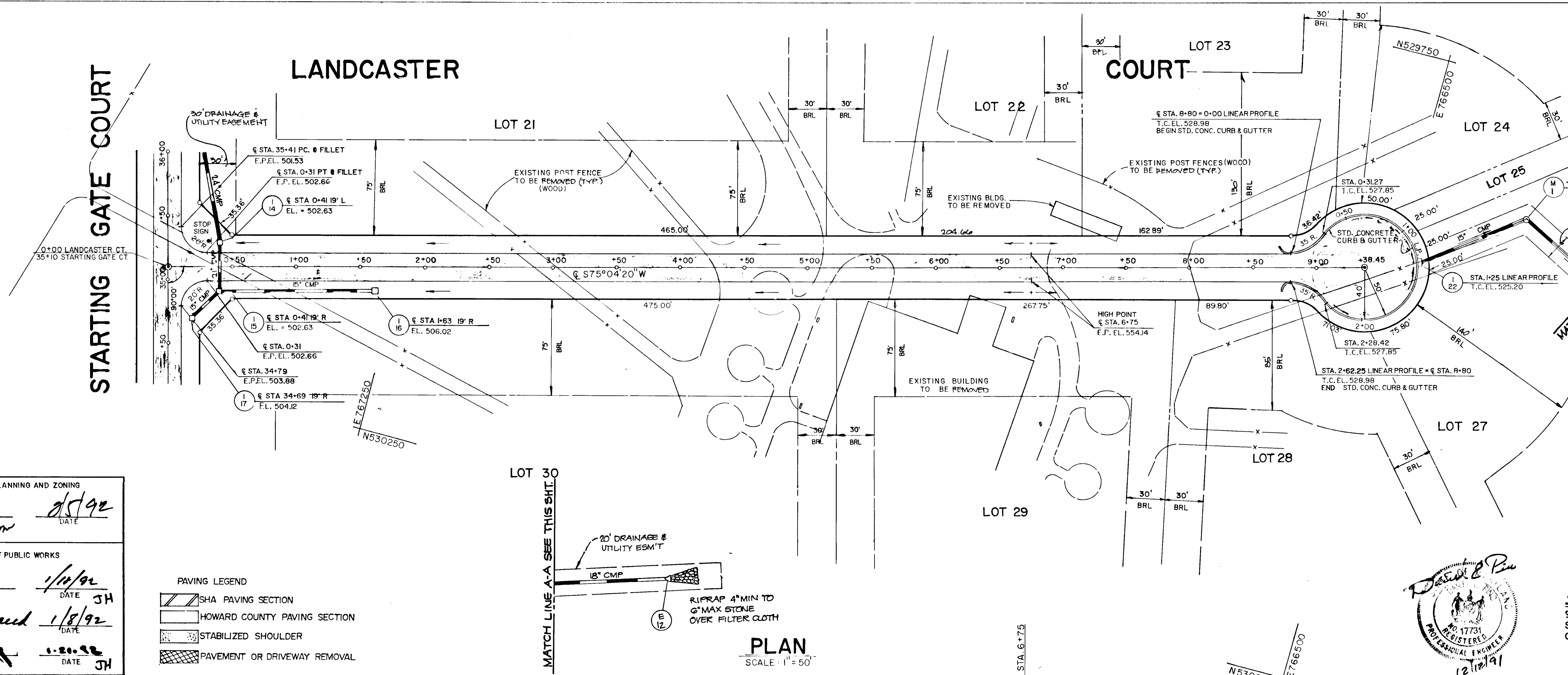
BRIGHTON COURT

F-90-68

1635



REVISIONS		
DATE	BY	DESCRIPTION
12-15-90	LSG	PER HOWARD COUNTY COMMENTS 1-14-89



OWNER / DEVELOPER  
ANCHOR CAPITAL GROUP, INC.  
210 MERRIMAC COURT  
P.O. BOX 2328  
PRINCE FREDERICK MD. 20678  
(301)-855-1816, (WASHINGTON)  
(301)-535-2107, (BALTIMORE/ANNAPOLIS)

**ROAD CONSTRUCTION PLAN  
GRADE ESTABLISHMENT PLAN  
LANDCASTER COURT  
STA. 0+00 TO 9+38.45  
CABIN BRANCH FARM  
FOURTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND**

Scale As Shown September, 89

**LSG LAND SERVICES GROUP, INC.**  
ENGINEERS • PLANNERS • SURVEYORS

9801 Broken Land Parkway Suite 105  
Columbia, MD 21046  
Wash. (301) 621-8006  
Balt. (301) 995-6010  
Fax. (301) 995-6021  
Job No. 88-026  
Sheet II of II

APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING  
*Anna Helms* 1/1/92  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*John M. Jensen* 1/1/92  
CHIEF, LAND DEVELOPMENT DIVISION

*Danville W. Wellwood* 1/8/92  
CHIEF, BUREAU OF HIGHWAYS

*William E. King* 1-20-88  
CHIEF, BUREAU OF ENGINEERS

- PAVING LEGEND**
- SHA PAVING SECTION
  - HOWARD COUNTY PAVING SECTION
  - STABILIZED SHOULDER
  - PAVEMENT OR DRIVEWAY REMOVAL

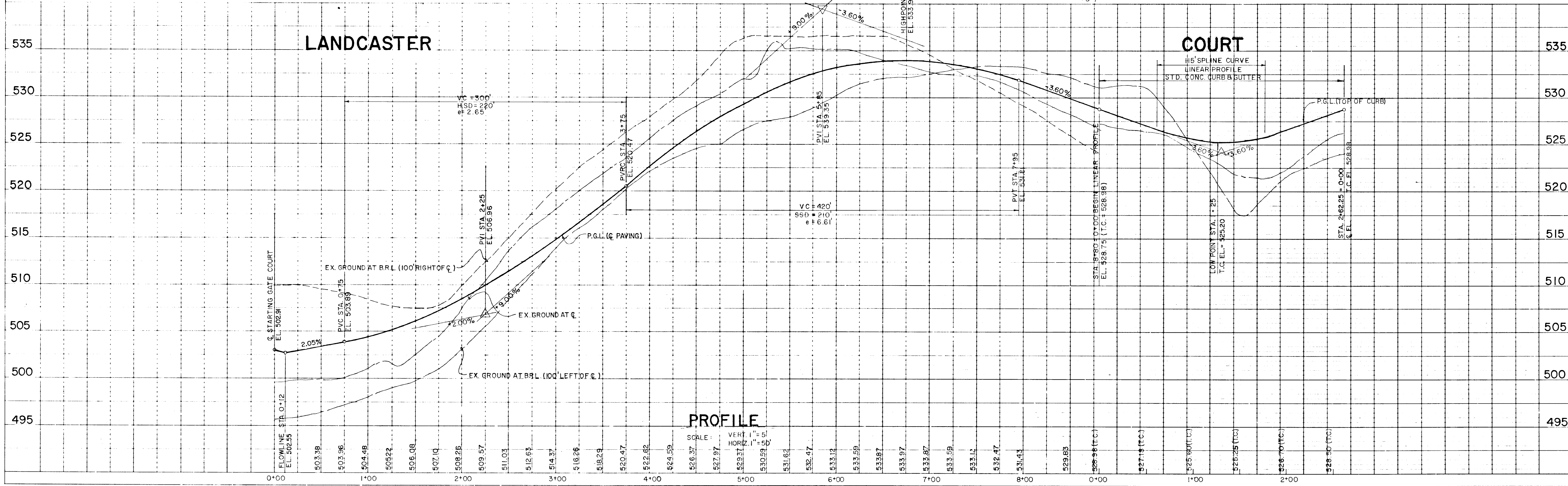
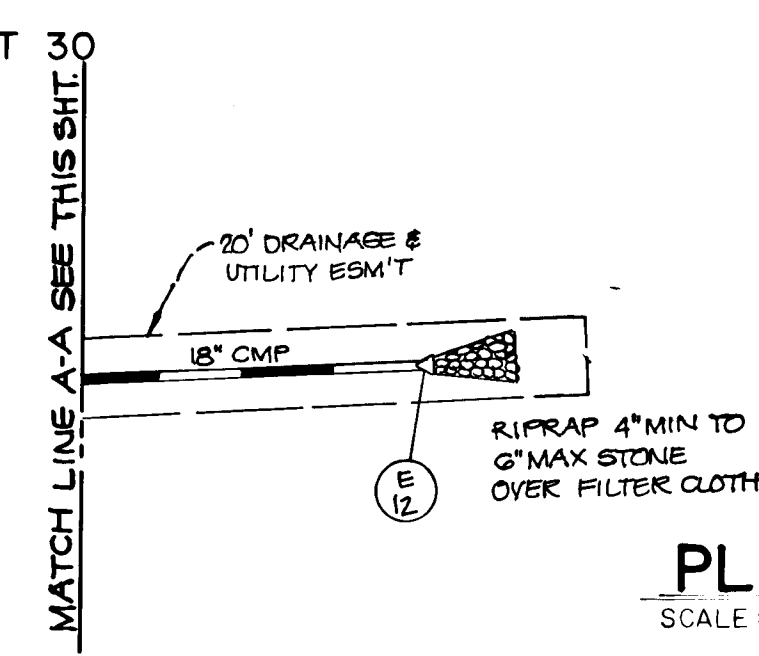


PLATE 1-SINGLE PLAN AND PROFILE FULL LINE

LANDCASTER COURT

F-90-68

1635

PLAN SURVAYED PLOTTED NOTE BOOK GRAFIS CHECKED BY DATE

PROFILE SURVAYED PLOTTED NOTE BOOK GRAFIS CHECKED BY DATE

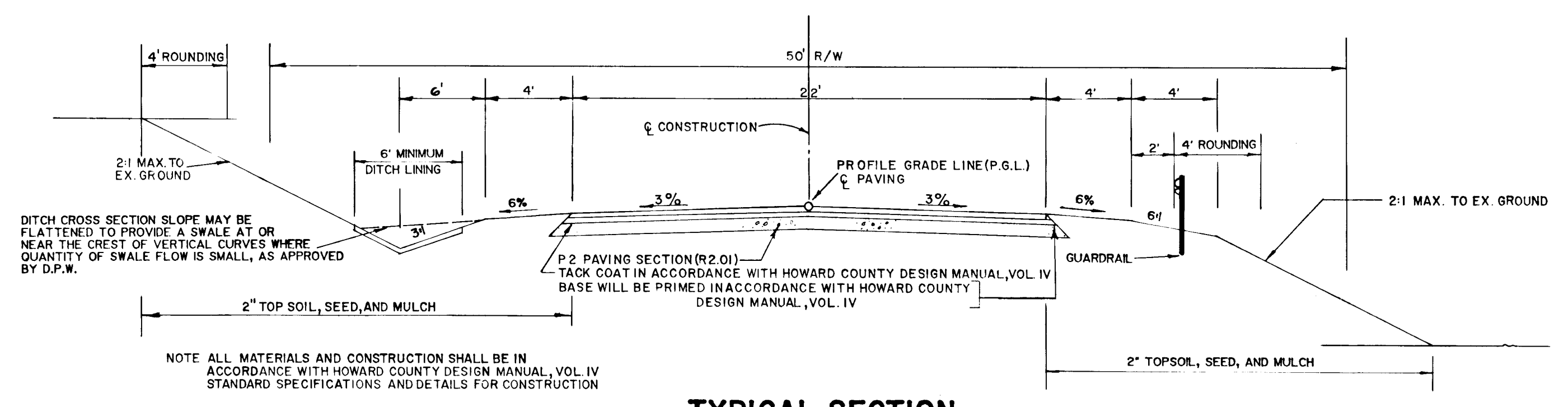
APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING  
*Amund Halverson* 2/5/92  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
 DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*John M. Poyner* 1/10/92  
 CHIEF, LAND DEVELOPMENT DIVISION  
 DATE

*Francis W. Weiland* 1/8/92  
 CHIEF, BUREAU OF HIGHWAYS  
 DATE

*William B. Ray* 1-11-92  
 CHIEF, BUREAU OF ENGINEERING  
 DATE

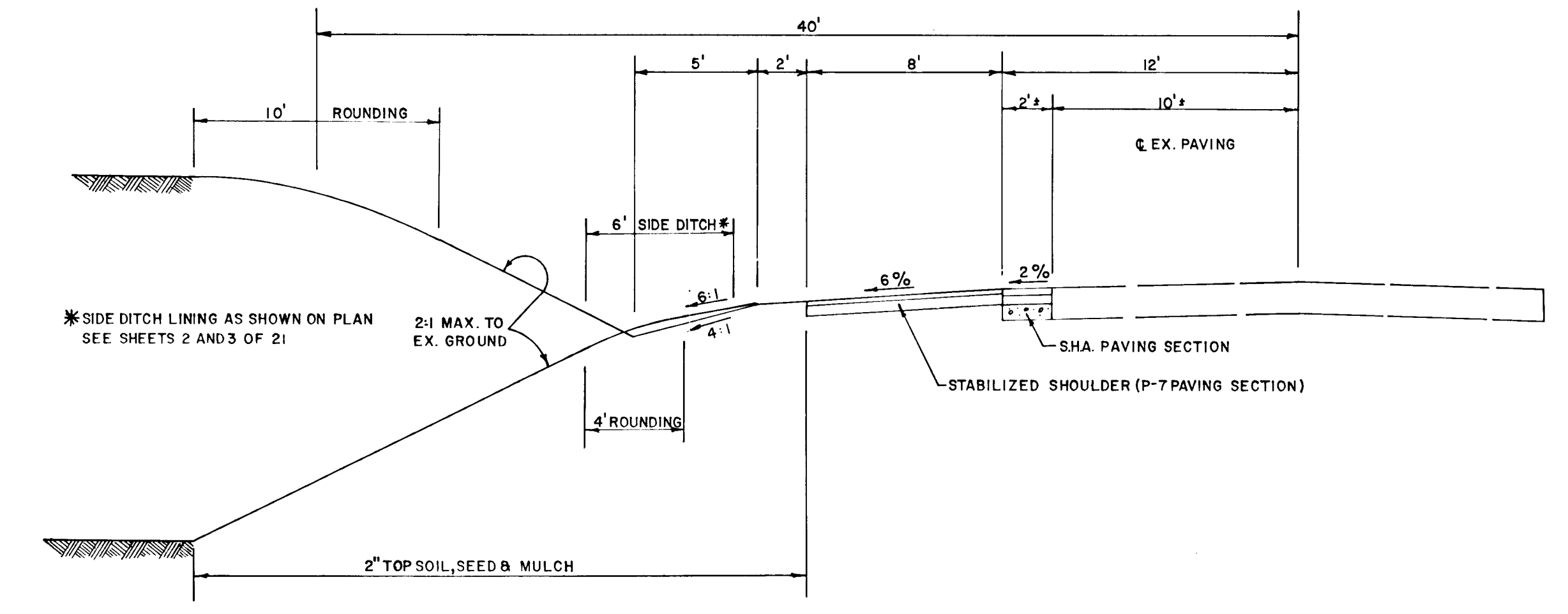
STARTING GATE COURT: STA. 0+54 TO STA. 4+20  
 HAYLOFT COURT: STA. 0+42 TO STA. 16+07.77  
 BRIGHTON COURT: STA. 0+42 TO STA. 7+40  
 LANCASTER COURT: STA. 0+42 TO STA. 8+80  
 DESIGN SPEED: 30 M.P.H. ZONED: R (RURAL)



**TYPICAL SECTION**  
 NOT TO SCALE

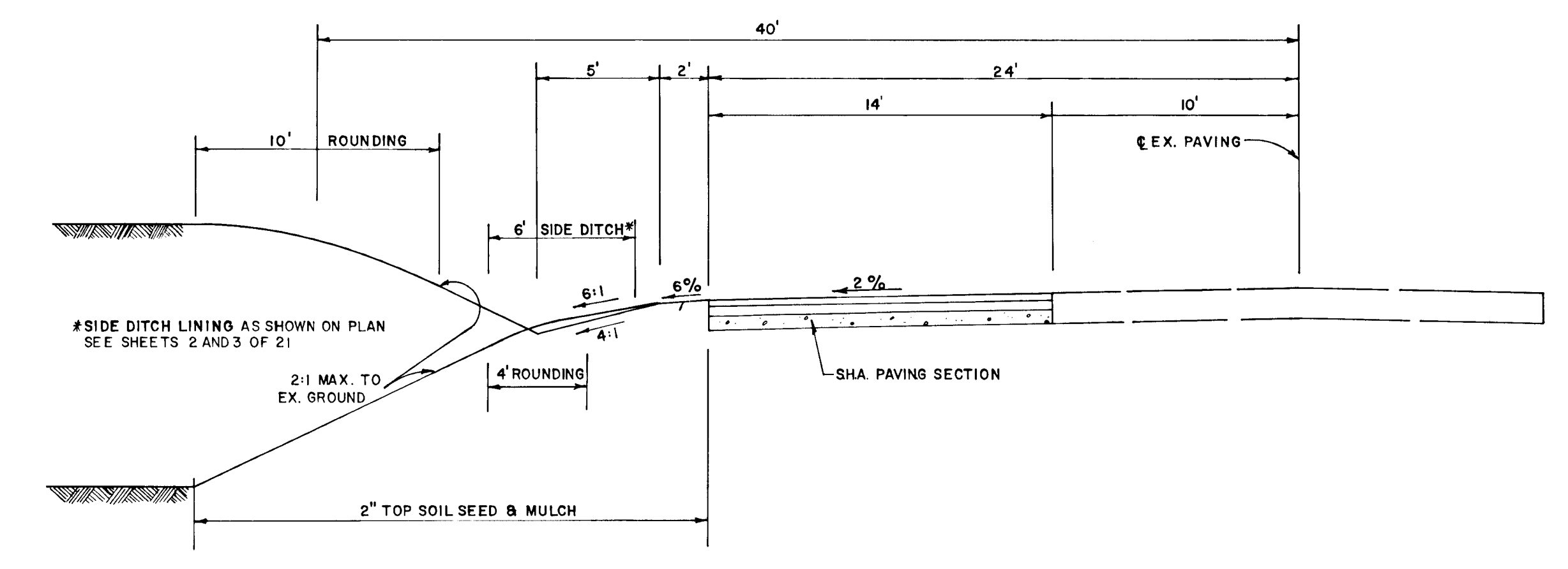
NOTE ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOL. IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION

MARYLAND ROUTE 94 STA. 94+ TO STA. 96+55  
 STA. 105+55 TO STA. 114+  
 DESIGN SPEED: 50 M.P.H. ZONED: R (RURAL)

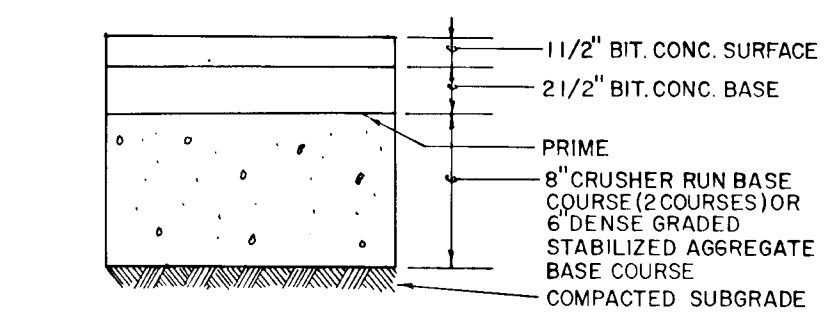


\*SIDE DITCH LINING AS SHOWN ON PLAN SEE SHEETS 2 AND 3 OF 21

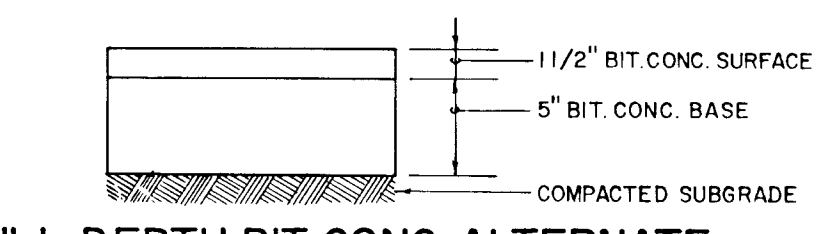
MARYLAND ROUTE 94 - STA. 97+05 TO STA. 99+85, PROVIDE 50' LONG PAVEMENT TAPER.  
 START TAPER STA. 96+55 (2' WIDENING) TO STA. 97+05 (14' WIDENING)  
 STA. 100+55 TO STA. 105+05, PROVIDE 50' LONG PAVEMENT TAPER.  
 START TAPER STA. 105+05 (14' WIDENING) TO STA. 105+55 (2' WIDENING)  
 DESIGN SPEED: 50 M.P.H. ZONED: R (RURAL)



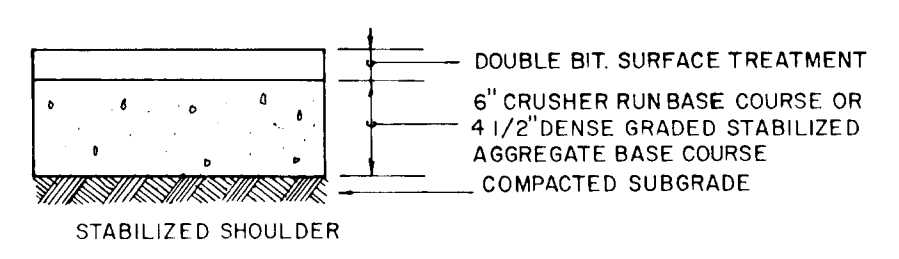
**TYPICAL WIDENING SECTION**  
 NOT TO SCALE



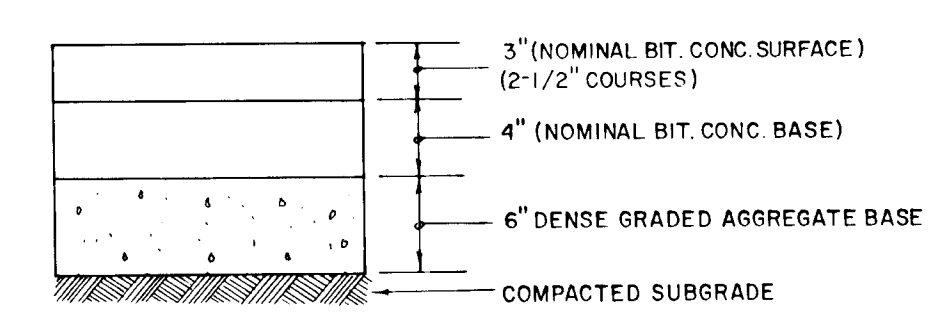
**GRANULAR BASE ALTERNATES**



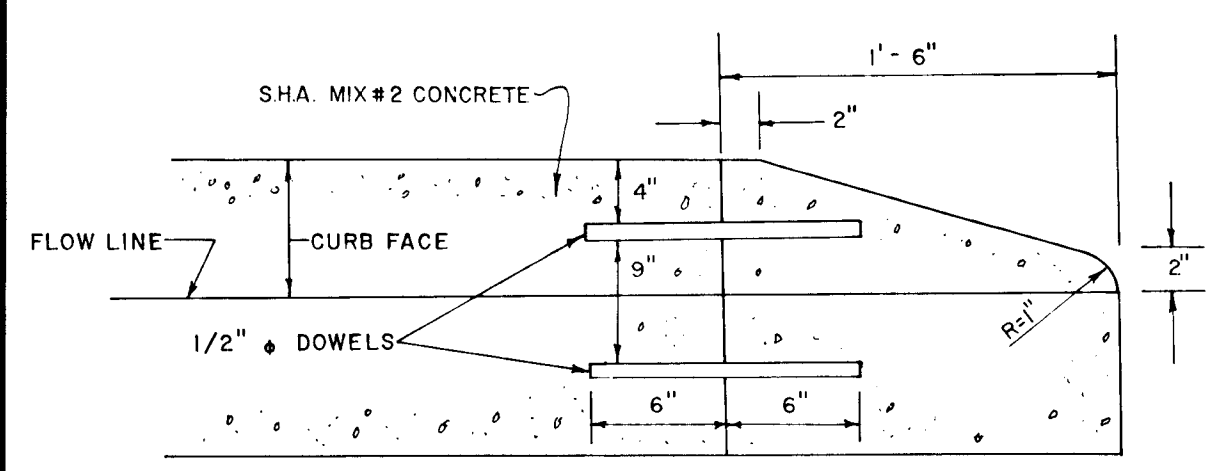
**FULL DEPTH BIT. CONC. ALTERNATE**



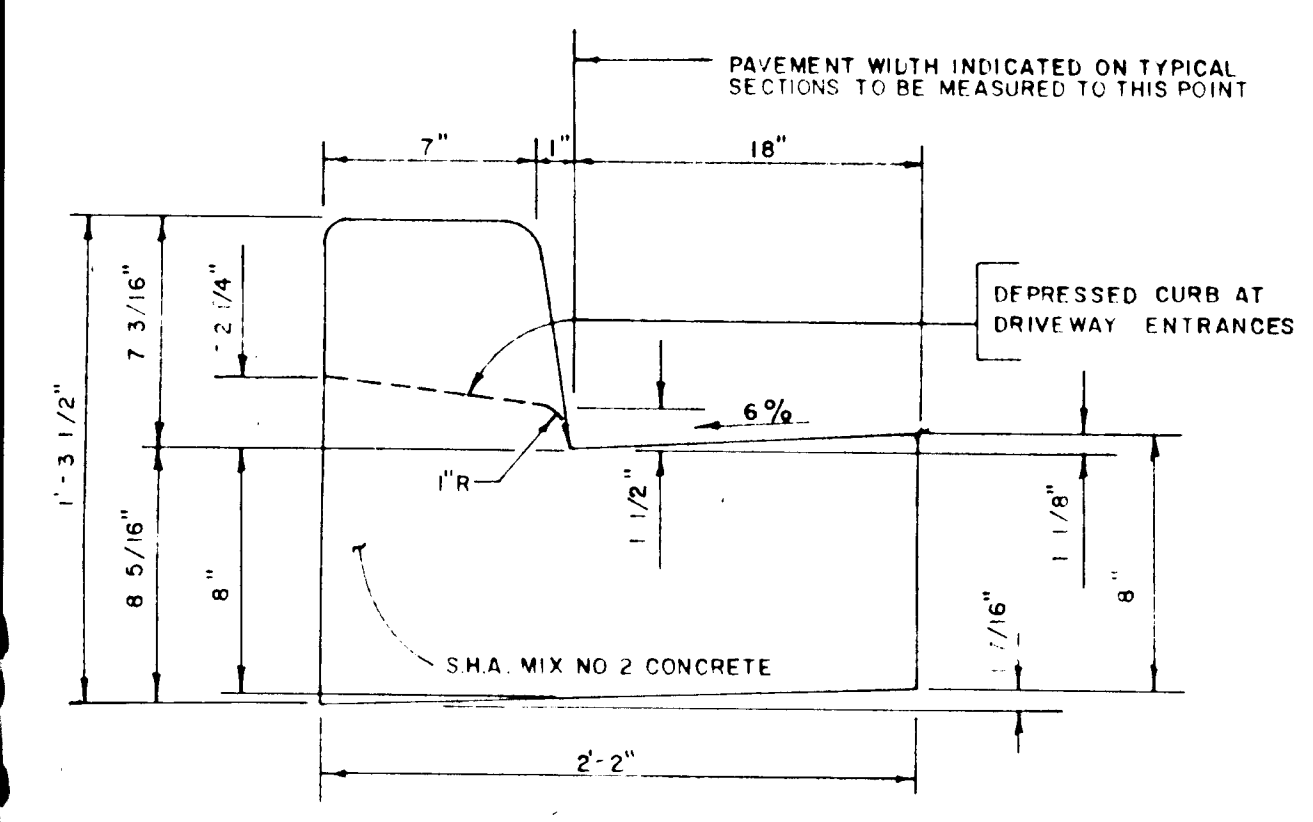
**P-7 PAVING SECTION**  
 NOT TO SCALE



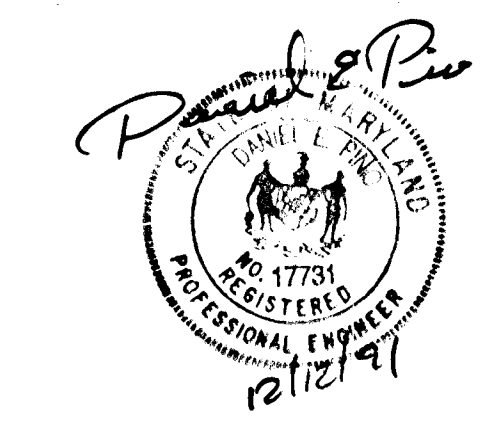
**S.H.A. PAVING SECTION**  
 NOT TO SCALE



**NOSE DOWN CURB**  
 NOT TO SCALE



**STANDARD 7\"/>
 NOT TO SCALE**

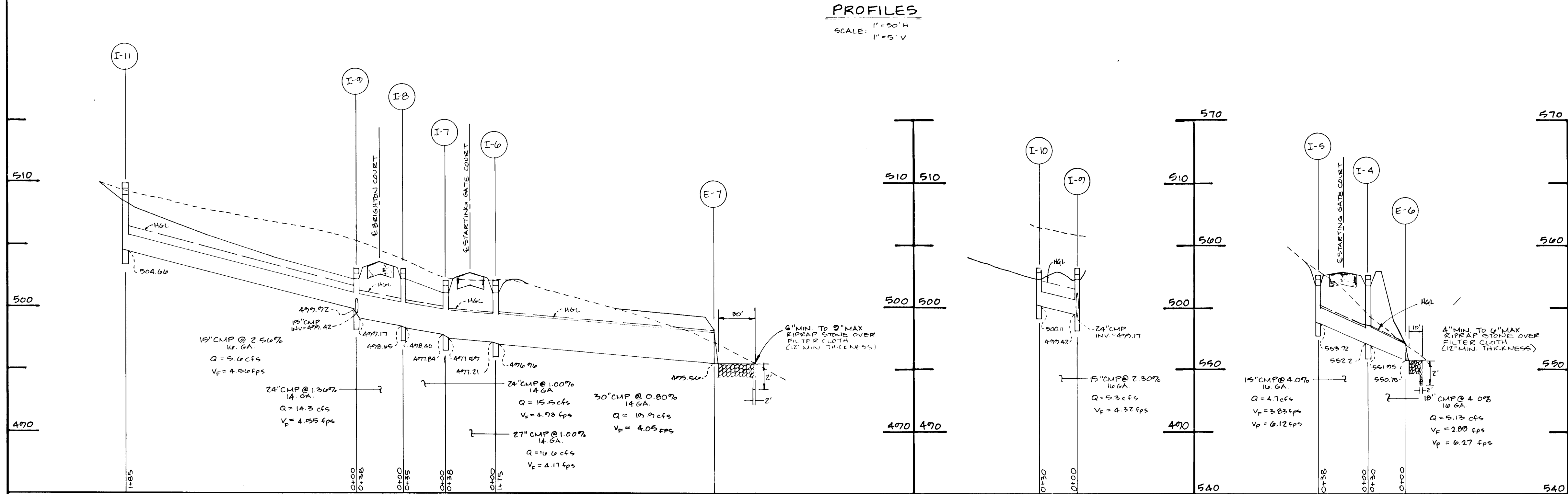
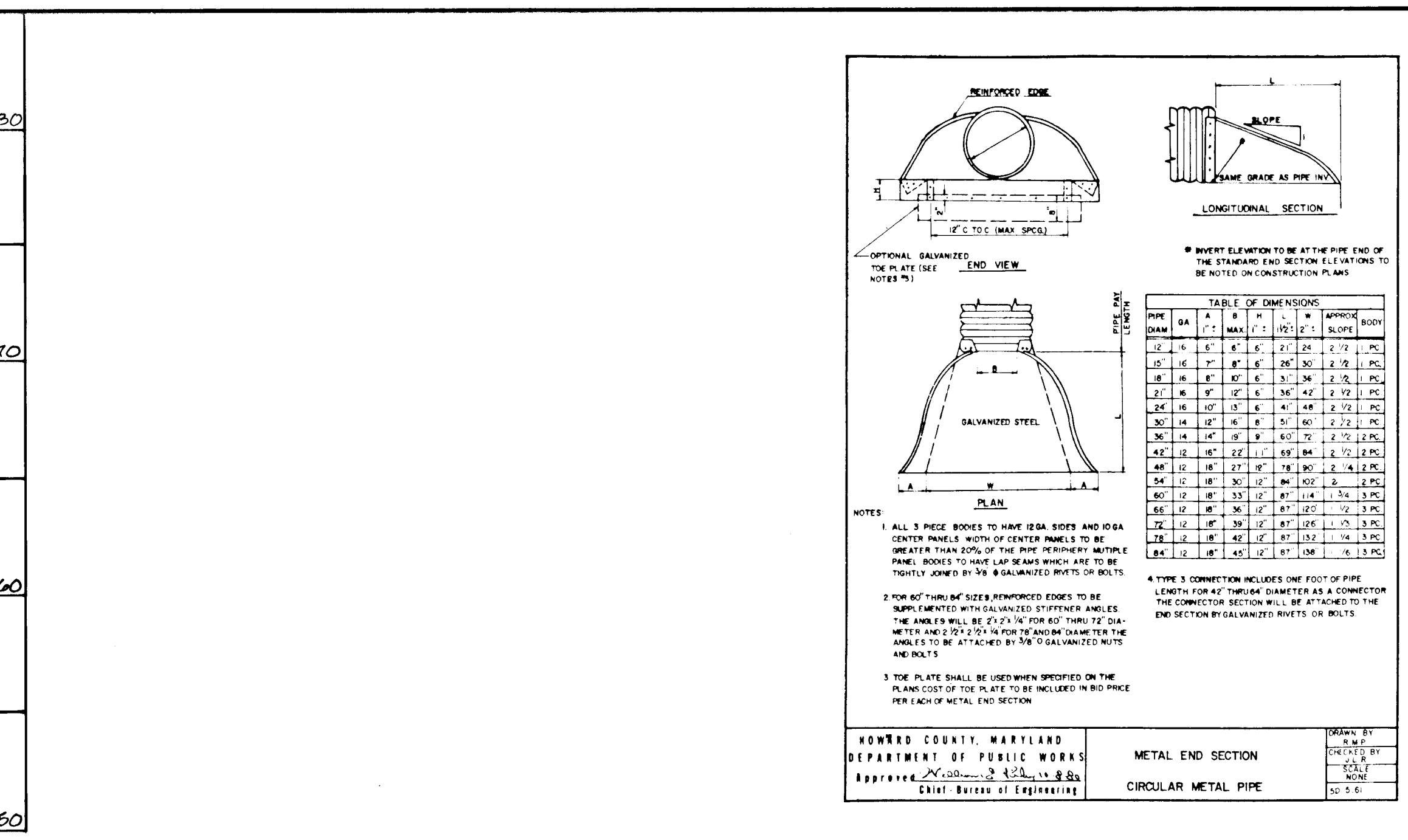
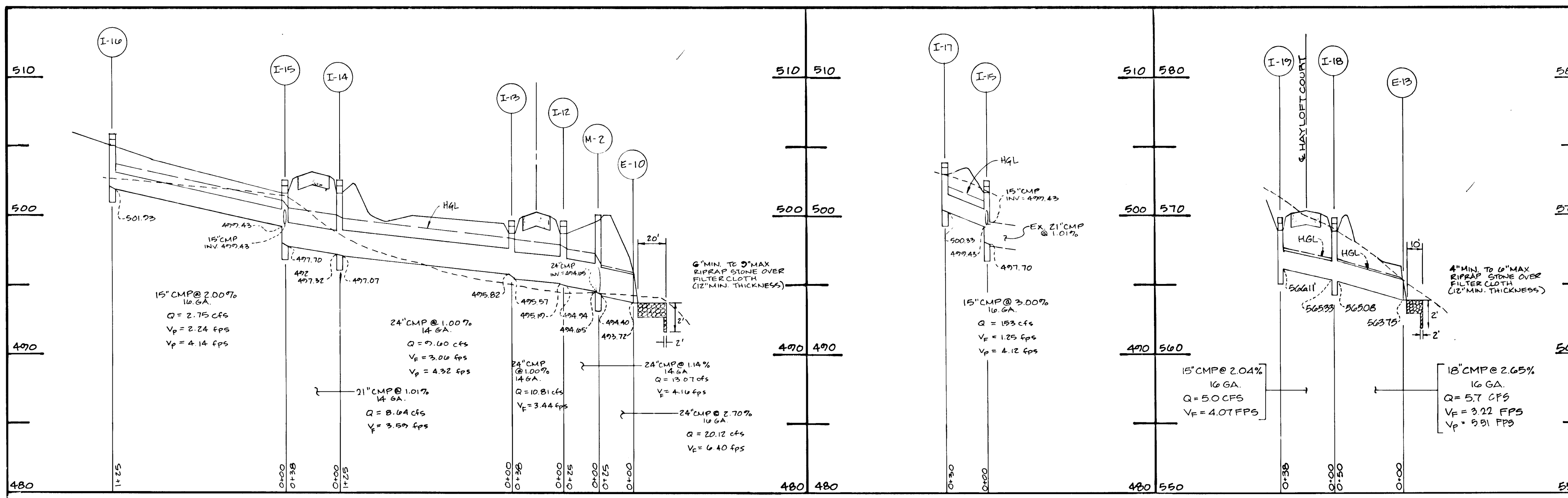


ROAD SECTIONS, DETAILS,  
 STRUCTURE SCHEDULE  
**CABIN BRANCH FARM**  
 FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE AS SHOWN SEPTEMBER, 89

OWNER / DEVELOPER  
 ANCHOR CAPITAL GROUP, INC.  
 210 MERRIMAC COURT  
 P.O. BOX 2328  
 PRINCE FREDERICK, MD. 20678  
 (301)-855-1816, (WASHINGTON)  
 (301)-535-2107, (BALTIMORE/ANNAPOLIS)

**LSG LAND SERVICES GROUP, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS  
 9801 Broken Land Parkway  
 Suite 105  
 Columbia, MD 21046  
 Wash. (301) 621-8006  
 Balt. (301) 995-6010  
 Fax. (301) 995-6021





**DEVELOPER'S CERTIFICATE**  
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MD DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."  
BRIAN JOHNSON, ATTORNEY IN FACT  
ANCHOR CAPITAL GROUP, INC.  
DATE: 12/13/91

**ENGINEER'S CERTIFICATE**  
"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."  
DANIEL E. PANG  
MD. REG. NO. 11731  
DATE: 12/12/91

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.  
JAMES H. STEIN  
HOWARD SOIL CONSERVATION DISTRICT  
DATE: 12/17/91

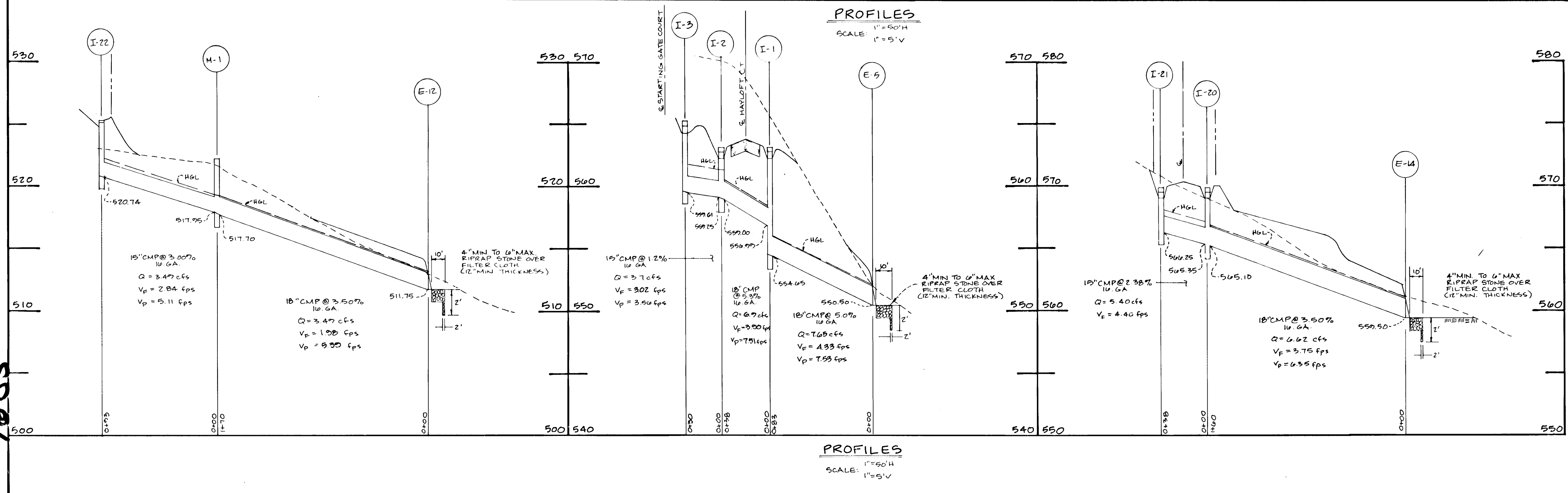
THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
JAMES H. STEIN  
HOWARD SOIL CONSERVATION DISTRICT  
DATE: 12/17/91

APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING  
Gemma Hibernath  
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
DATE: 9/5/92

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
CHIEF, LAND DEVELOPMENT DIVISION  
DATE: 1/14/92  
JH

Draville W. Woodland  
CHIEF, BUREAU OF HIGHWAYS  
DATE: 1/8/92

William E. Ray  
CHIEF, BUREAU OF ENGINEERING  
DATE: 1-21-92  
JH



**STORM DRAIN PROFILES**  
**CABIN BRANCH FARM**  
FOURTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE AS SHOWN SEPTEMBER, 89

**LSG LAND SERVICES GROUP, INC.**  
ENGINEERS • PLANNERS • SURVEYORS  
9801 Broken Land Parkway  
Suite 105  
Columbia, MD 21046  
Wash. (301) 621-8006  
Balt. (301) 995-6010  
Fax. (301) 995-6021  
Job No. 88-026  
Sheet No. 13 of 21

Professional Engineer Seal: DANIEL E. PANG, No. 47781, REGISTERED PROFESSIONAL ENGINEER, 12/12/91

1635

**DEVELOPER'S CERTIFICATE**

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MDC DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

*Brian Johnson* 12/13/91  
 BRIAN JOHNSON, ATTORNEY IN FACT  
 ANCHOR CAPITAL GROUP, INC.  
 DATE

**ENGINEER'S CERTIFICATE**

"I CERTIFY THAT THIS THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

*Daniel E. Pajo* 12/16/91  
 DANIEL E. PAJO  
 REGISTERED NO. 17731  
 DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL.

*James M. Helms* 12/17/91  
 JAMES M. HELMS  
 HOWARD SOIL CONSERVATION SERVICE  
 DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*John R. Roberts* 12/17/91  
 JOHN R. ROBERTS  
 HOWARD SOIL CONSERVATION DISTRICT  
 DATE

*Annmarie Helms* 2/5/92  
 ANNMARIE HELMS  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
 DATE

APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING

*Annmarie Helms* 2/5/92  
 ANNMARIE HELMS  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
 DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*Alan M. Ferguson* 1/6/92  
 ALAN M. FERGUSON  
 CHIEF, LAND DEVELOPMENT DIVISION  
 DATE JH

*Granville W. Weiland* 1/8/92  
 GRANVILLE W. WEILAND  
 CHIEF, BUREAU OF HIGHWAYS  
 DATE

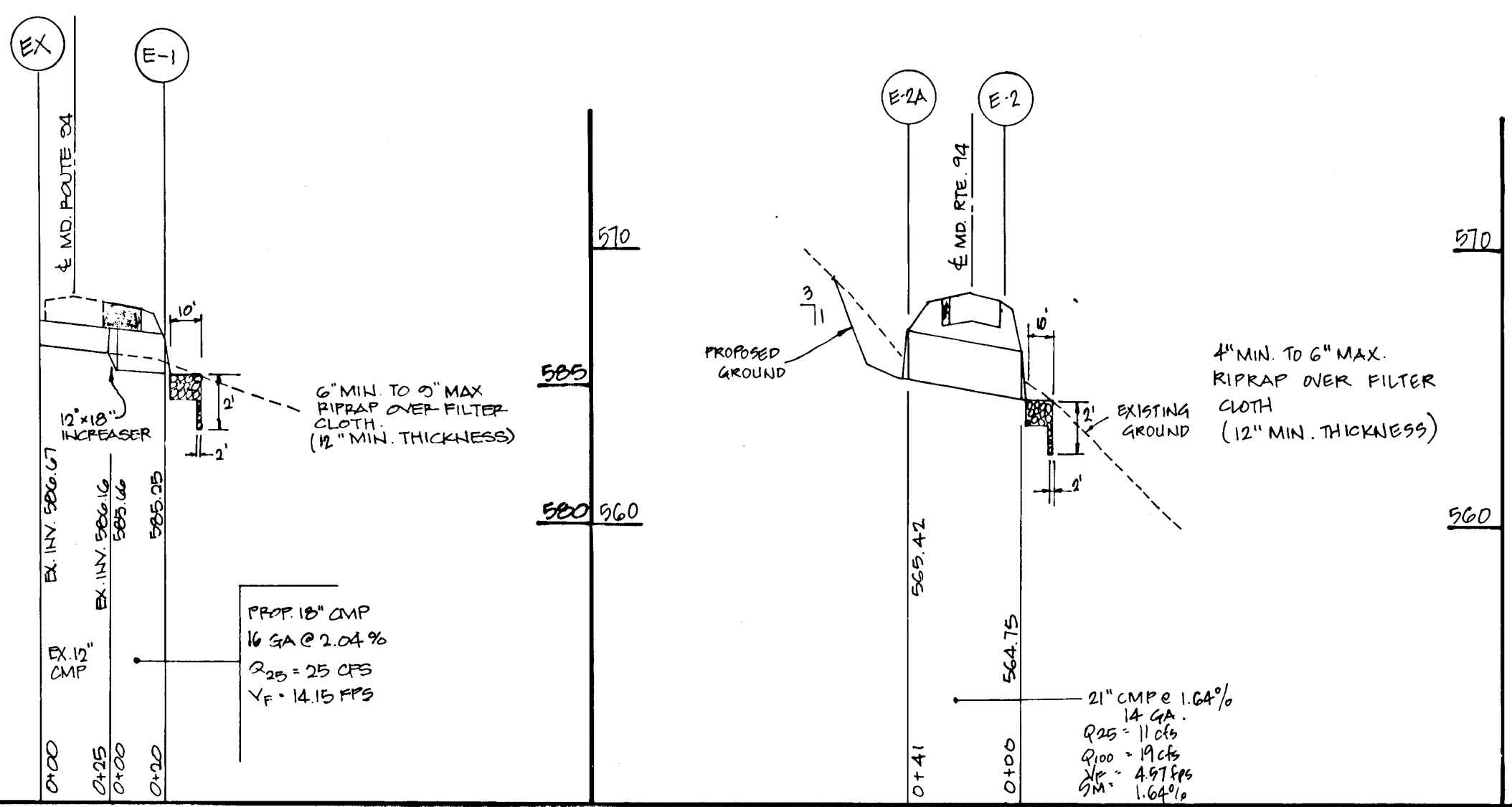
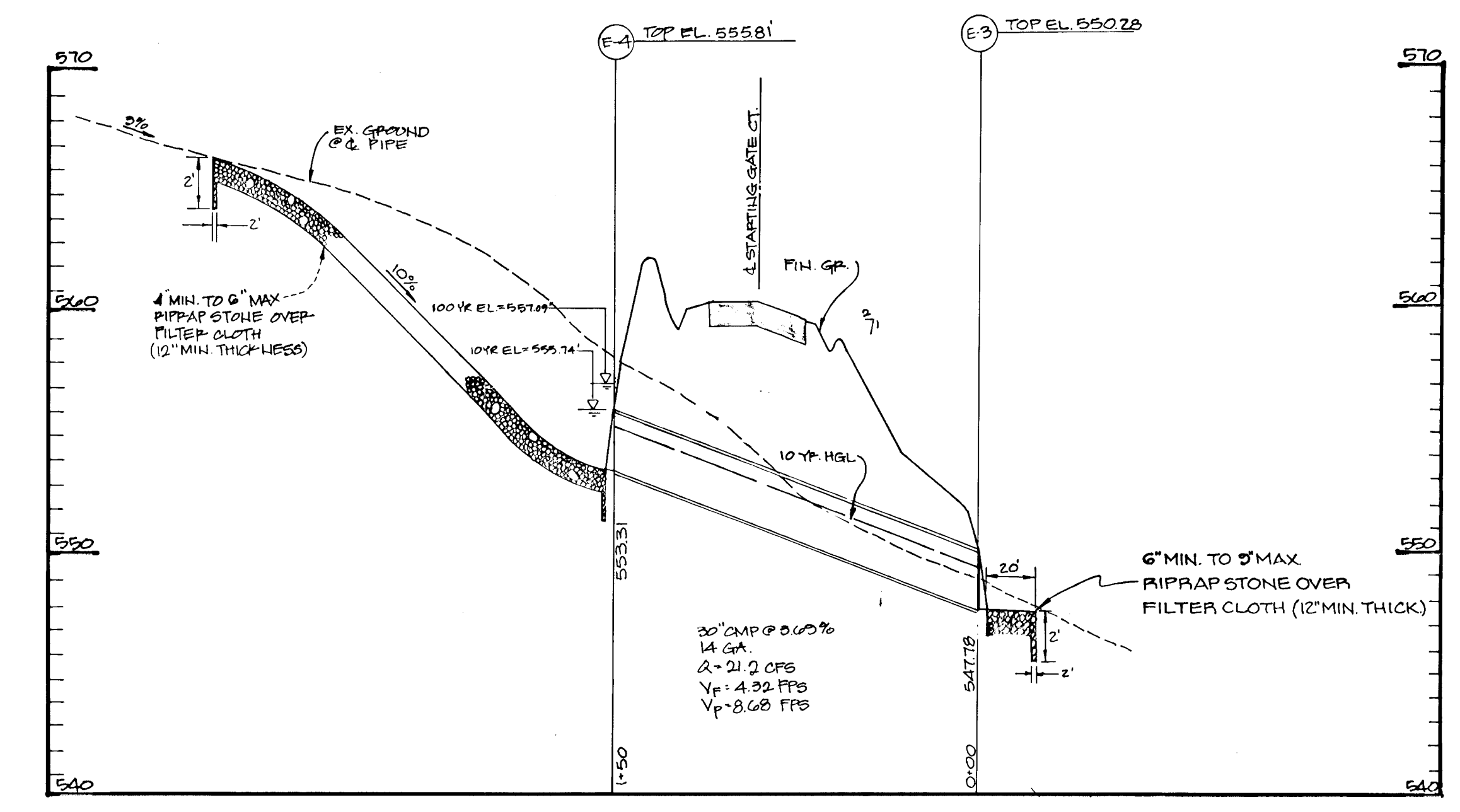
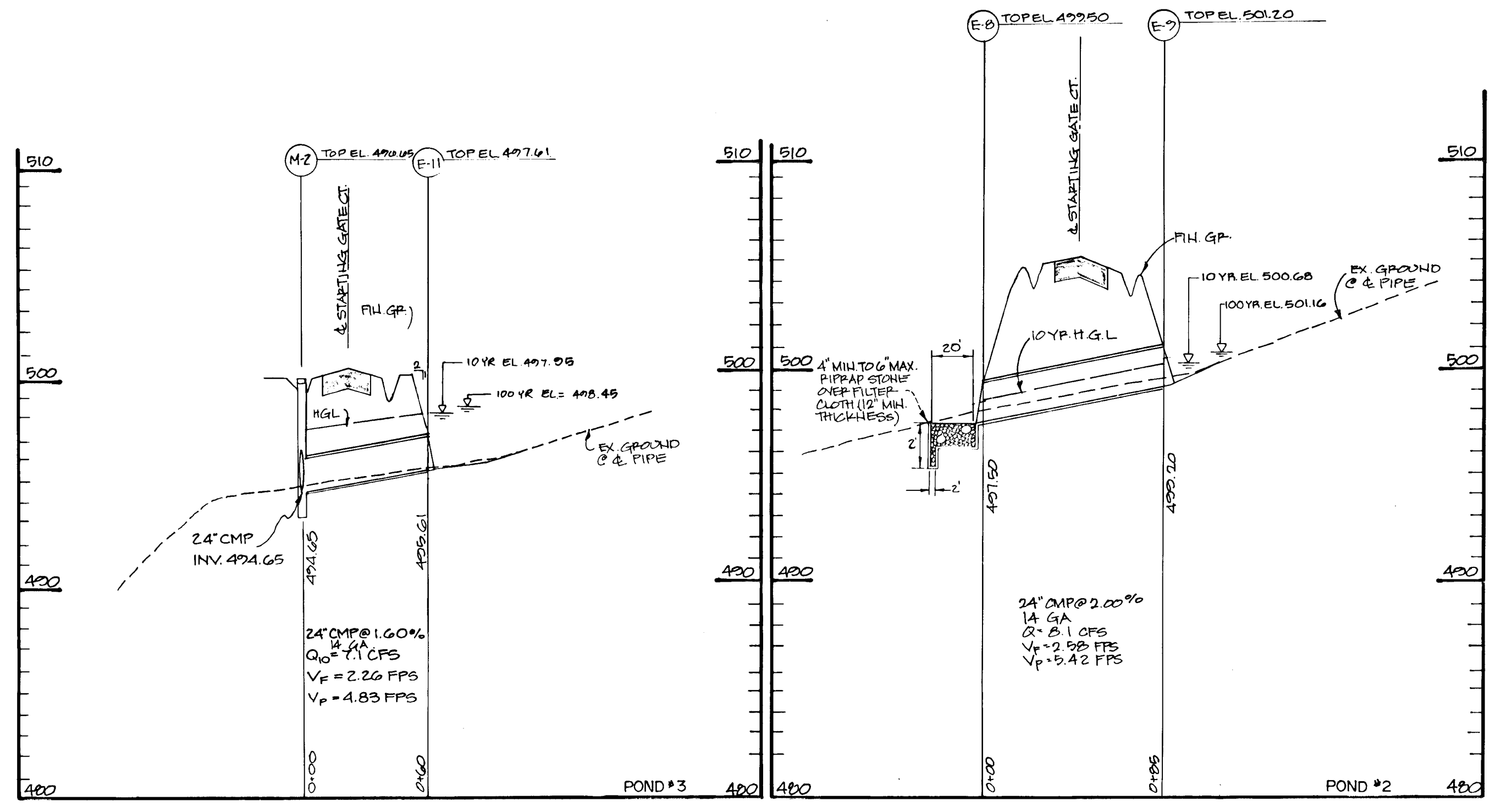
*William E. Ray* 1-20-92  
 WILLIAM E. RAY  
 CHIEF, BUREAU OF ENGINEERING  
 DATE JH

**STRUCTURE SCHEDULE**

NO	TYPE	TOP EL.	INV. IN	INV. OUT	DETAIL	LOCATION
1-1	D-INLET	563.26	556.99	554.65	SD-4.11	CENTERLINE STA 0+41 BAYLOFT COURT 19'L
1-2	D-INLET	563.26	555.25	559.00	SD-4.11	CENTERLINE STA 0+41 BAYLOFT COURT 19'R
1-3	D-INLET	565.28	-----	559.61	SD-4.11	CENTERLINE STA 5+69 STARTING GATE COURT 19'R
1-4	D-INLET	557.38	552.20	551.95	SD-4.11	CENTERLINE STA 8+50 STARTING GATE COURT 19'R
1-5	D-INLET	557.38	-----	553.72	SD-4.11	CENTERLINE STA 8+50 STARTING GATE COURT 19'L
1-6	D-INLET	502.19	497.21	496.96	SD-4.11	CENTERLINE STA 24+37.5 STARTING GATE COURT 19'L
1-7	D-INLET	502.19	497.84	497.59	SD-4.11	CENTERLINE STA 24+37.5 STARTING GATE COURT 19'R
1-8	D-INLET	503.12	498.65	498.40	SD-4.11	CENTERLINE STA 0+41 BRIGHTON COURT 19'L
1-9	D-INLET	503.12	499.92	499.17	SD-4.11	CENTERLINE STA 0+41 BRIGHTON COURT 19'R
1-10	D-INLET	503.24	-----	500.11	SD-4.11	CENTERLINE STA 23+49 STARTING GATE COURT 19'R
1-11	D-INLET	510.00	-----	504.66	SD-4.11	CENTERLINE STA 2+22 BRIGHTON COURT 19'R
1-12	D-INLET	499.68	495.19	494.94	SD-4.11	CENTERLINE STA 36+50 STARTING GATE COURT 19'L
1-13	D-INLET	499.68	495.82	495.57	SD-4.11	CENTERLINE STA 36+50 STARTING GATE COURT 19'R
1-14	D-INLET	502.63	497.32	497.07	SD-4.11	CENTERLINE STA 0+41 LANCASTER COURT 19'L
1-15	D-INLET	502.63	499.43	497.70	SD-4.11	CENTERLINE STA 0+41 LANCASTER COURT 19'R
1-16	D-INLET	506.02	-----	501.93	SD-4.11	CENTERLINE STA 1+63 LANCASTER COURT 19'R
1-17	D-INLET	504.12	-----	500.33	SD-4.11	CENTERLINE STA 34+69 STARTING GATE COURT 19'R
1-18	D-INLET	569.79	565.33	565.08	SD-4.11	CENTERLINE STA 4+76 BAYLOFT COURT 19'L
1-19	D-INLET	569.79	-----	566.11	SD-4.11	CENTERLINE STA 4+76 BAYLOFT COURT 19'R
1-20	D-INLET	569.81	565.35	565.10	SD-4.11	CENTERLINE STA 14+16.09 HAYLOFT COURT 19'R
1-21	D-INLET	569.81	-----	566.25	SD-4.11	CENTERLINE STA 14+16.09 HAYLOFT COURT 19'L
1-22	A-5 INLET (Depressed)	525.20	-----	520.74	SD-4.01	LP STA 1+25 LANCASTER COURT
M-1	STD	522.25	517.95	517.70	G-5.01	SEE SHEET 20 OF 21
M-2	STD	499.70	494.65	494.40	G-5.01	CENTERLINE STA 36+77 STARTING GATE COURT 22'L
2-1	METAL END SECT.	586.75	-----	585.25	SD-5.61	SEE SHEET 16 OF 21
2-2	METAL END SECT.	566.50	-----	564.75	SD-5.61	SEE SHEET 19 OF 21
E-2A	"	567.17	-----	565.42	"	"
2-3	METAL END SECT.	550.28	-----	547.78	SD-5.61	SEE SHEET 16 OF 21
2-4	METAL END SECT.	555.81	553.31	-----	SD-5.61	SEE SHEET 16 OF 21
2-5	METAL END SECT.	552.00	-----	550.50	SD-5.61	SEE SHEET 16 OF 21
2-6	METAL END SECT.	552.25	-----	550.75	SD-5.61	CENTERLINE STA 8+50 STARTING GATE COURT 50'R
2-7	METAL END SECT.	498.06	-----	495.56	SD-5.61	SEE SHEET 17 OF 21
2-8	METAL END SECT.	499.50	-----	497.50	SD-5.61	SEE SHEET 17 OF 21
2-9	METAL END SECT.	501.20	499.20	-----	SD-5.61	SEE SHEET 17 OF 21
2-10	METAL END SECT.	495.72	-----	493.72	SD-5.61	SEE SHEET 18 OF 21
2-11	METAL END SECT.	497.61	495.61	-----	SD-5.61	SEE SHEET 18 OF 21
2-12	METAL END SECT.	513.25	-----	511.75	SD-5.61	SEE SHEET 20 OF 21
2-13	METAL END SECT.	565.25	-----	563.75	SD-5.61	SEE SHEET 16 OF 21
2-14	METAL END SECT.	561.00	-----	559.50	SD-5.61	CENTERLINE STA 14+16.09 HAYLOFT COURT 179'L

**PIPE SUMMARY**

SIZE	TYPE	LENGTH
15"	16 GA.	607'
18"	16 GA.	551'
21"	14 GA.	79'
24"	14 GA.	431'
27"	14 GA.	38'
30"	14 GA.	305'



**STORM DRAIN PROFILES**  
**CABIN BRANCH FARM**  
 FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE AS SHOWN SEPTEMBER, 1990

**LSG LAND SERVICES GROUP, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS

OWNER / DEVELOPER  
 ANCHOR CAPITAL GROUP, INC.  
 210 MERRIMAC COURT  
 P.O. BOX 2328  
 PRINCE FREDERICK, MD. 20676  
 (301)-535-2107, (BALTIMORE/ANNAPOLIS)



9801 Broken Land Pkwy  
 Suite 105  
 Columbia, MD 21046  
 Wash. (301) 621-8006  
 Balt. (301) 995-6010  
 Fax. (301) 995-6021

JOB NO. 88-026  
 SHEET NO. 14 OF 21





**DEVELOPER'S CERTIFICATE**

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ALL NECESSARY DEPOSITS INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A M.D. DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

*David E. Paine* 12/13/91  
 DATE

**ENGINEER'S CERTIFICATE**

"I CERTIFY THAT THIS THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

*David E. Paine* 12/12/91  
 DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL.

*James M. DeLo* 12/17/91  
 DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*John R. Rhoads* 12/17/91  
 DATE

APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING

*Anna M. Blomark* 2/5/92  
 DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*John M. Roman* 1/10/92  
 DATE

APPROVED HOWARD COUNTY DEPARTMENT OF HIGHWAYS

*David W. McLeod* 1/8/92  
 DATE

**CHIEF, BUREAU OF ENGINEERING**

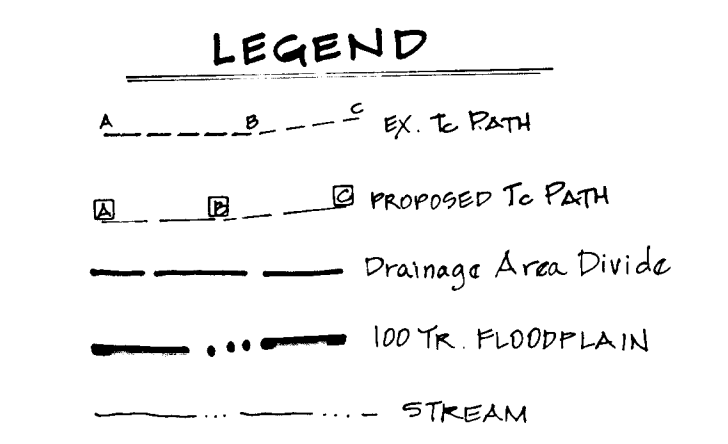
**CHIEF, BUREAU OF ENGINEERING**

**CHIEF, BUREAU OF ENGINEERING**

STRUCTURE	AREA (AC)	RUNOFF COEFF. (C)	P.I. (%)	ZONING
I-1	0.29	0.66	4%	K
I-2	2.63	0.26	6%	K
I-3	2.10	0.33	10%	K
I-4	0.40	0.66	10%	K
I-5	3.35	0.26	10%	K
I-6	1.21	0.66	10%	K
I-7	0.60	0.29	10%	K
I-8	4.46	0.66	10%	K
I-9	4.65	0.26	10%	K
I-10	3.69	0.26	10%	K
I-11	3.74	0.26	10%	K
I-12	0.45	0.66	10%	K
I-13	0.60	0.66	10%	K
I-14	0.35	0.66	10%	K
I-15	4.35	0.26	10%	K
I-16	1.85	0.29	10%	K
I-17	0.46	0.26	10%	K
I-18	0.31	0.66	10%	K
I-19	4.37	0.26	10%	K
I-20	4.24	0.26	10%	K
I-21	2.42	0.66	10%	K
I-22	0.50	0.29	10%	K
E-1	9.14	0.26	10%	K
E-2	0.64	0.66	10%	K
E-3	18.66	0.26	10%	K
E-4	7.16	0.29	10%	K
E-5	6.25	0.24	5%	K

**PEAK FLOW CHART**

STUDY POINT	2 YEAR		10 YEAR	
	EX.	PROP.	EX.	PROP.
1	1	1	6	5
2	1	1	6	5
3	2	2	8	8
4	1	1	5	5
5	1	2	11	12
6	0	1	4	5
7	0	0	1	1



OWNER / DEVELOPER  
 ANCHOR CAPITAL GROUP, INC.  
 210 MERRIMAC COURT  
 P.O. BOX 2328  
 PRINCE FREDERICK, MD. 20678  
 (301)-855-1816, (WASHINGTON)  
 (301)-535-2107, (BALTIMORE/ANNAPOLIS)



**DRAINAGE AREA M&P FOR STORMWATER MANAGEMENT**

**CABIN BRANCH FARM**

FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE AS SHOWN SEPTEMBER, 89

**LSG LAND SERVICES GROUP, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS

9801 Broken Land Parkway  
 Suite 105  
 Columbia, MD 21046

Wash. (301) 621-8006  
 Balt. (301) 995-6010  
 Fax. (301) 995-6021

Job No. 88-026  
 Sheet No. 15 OF 21

1635



**DEVELOPER'S CERTIFICATE**  
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MD DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

*Brian Johnson* 12/13/91  
 DATE

**ENGINEER'S CERTIFICATE**  
 I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

*Daniel E. P... 12/12/91*  
 DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

*James M. H... 12/17/91*  
 DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*John L. ... 12/17/91*  
 DATE

APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING

*Anna ... 12/19/91*  
 DATE

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*William ... 1/1/92*  
 DATE

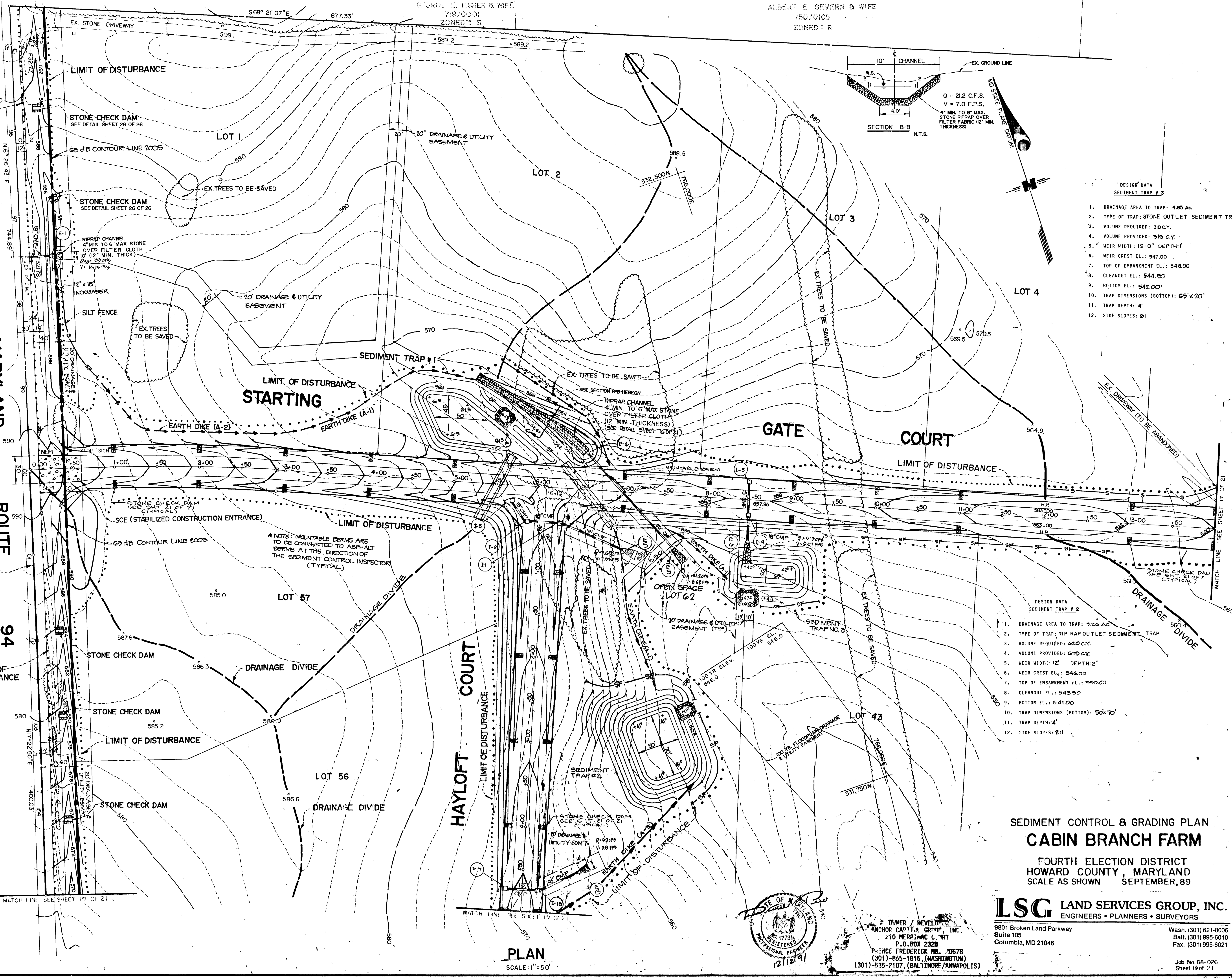
CHIEF, LAND DEVELOPMENT DIVISION

*Travis ... 1/1/92*  
 DATE

CHIEF, BUREAU OF HIGHWAYS

*William ... 1/1/92*  
 DATE

CHIEF, BUREAU OF ENGINEERING



- DESIGN DATA SEDIMENT TRAP #3**
1. DRAINAGE AREA TO TRAP: 4.65 AC.
  2. TYPE OF TRAP: STONE OUTLET SEDIMENT TRAP
  3. VOLUME REQUIRED: 310 C.Y.
  4. VOLUME PROVIDED: 315 C.Y.
  5. WEIR WIDTH: 19'-0" DEPTH: 1'
  6. WEIR CREST EL.: 547.00
  7. TOP OF EMBANKMENT EL.: 548.00
  8. CLEANOUT EL.: 544.50
  9. BOTTOM EL.: 542.00'
  10. TRAP DIMENSIONS (BOTTOM): 65' x 20'
  11. TRAP DEPTH: 4'
  12. SIDE SLOPES: 2:1

- DESIGN DATA SEDIMENT TRAP #2**
1. DRAINAGE AREA TO TRAP: 2.22 AC.
  2. TYPE OF TRAP: RIP RAP OUTLET SEDIMENT TRAP
  3. VOLUME REQUIRED: 620 C.Y.
  4. VOLUME PROVIDED: 670 C.Y.
  5. WEIR WIDTH: 12' DEPTH: 2'
  6. WEIR CREST EL.: 546.00
  7. TOP OF EMBANKMENT EL.: 550.00
  8. CLEANOUT EL.: 543.50
  9. BOTTOM EL.: 541.00
  10. TRAP DIMENSIONS (BOTTOM): 50' x 70'
  11. TRAP DEPTH: 4'
  12. SIDE SLOPES: 2:1

**REVISIONS**

DATE	BY	DESCRIPTION
12-15-90	LSG	PER HOWARD COUNTY COMMENTS 1/14-89

**SEDIMENT CONTROL & GRADING PLAN**  
**CABIN BRANCH FARM**  
 FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE AS SHOWN SEPTEMBER, 89

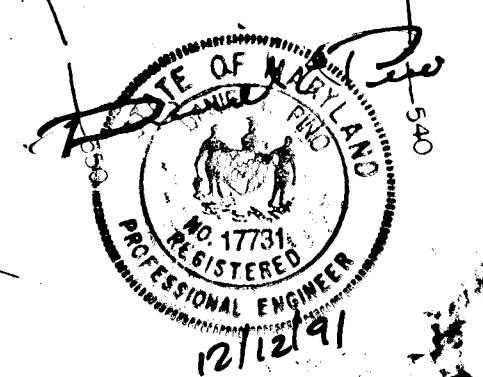
**LSG LAND SERVICES GROUP, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS

9801 Broken Land Parkway  
 Suite 105  
 Columbia, MD 21046

Wash. (301) 621-8006  
 Balt. (301) 995-6010  
 Fax: (301) 995-6021

OWNER / DEVELOPER:  
 ANCHOR CAPITAL GROUP, INC.  
 210 MERRIMAC L. RT.  
 P.O. BOX 2328  
 PRINCE FREDERICK, MD 20678  
 (301) 855-1816, (WASHINGTON)  
 (301) 535-2107, (BALTIMORE/ANNAPOLIS)

1635









**DEVELOPER'S CERTIFICATE**

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MANDATORY DEPARTMENT OF THE PLANNING AND ZONING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

*Brian Johnson* 12/13/91  
 Brian Johnson, President of Firm  
 ANCHOR CAPITAL GROUP, INC.  
 DATE

**ENGINEER'S CERTIFICATE**

"I CERTIFY THAT THIS THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

*Daniel E. Piro* 12/12/91  
 Daniel E. Piro  
 REGISTERED PROFESSIONAL ENGINEER  
 DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

*John A. H. H. H.* 12/17/91  
 John A. H. H. H.  
 HOWARD SOIL CONSERVATION DISTRICT  
 DATE

APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING

*John A. H. H. H.* 12/17/91  
 John A. H. H. H.  
 HOWARD COUNTY DEPARTMENT PLANNING AND ZONING  
 DATE

*Anna H. H. H.* 2/5/92  
 Anna H. H. H.  
 CHIEF, DIVISION OF COMMUNITY PLANNING  
 AND LAND DEVELOPMENT  
 DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*John M. H. H.* 1/14/92  
 John M. H. H.  
 CHIEF, LAND DEVELOPMENT DIVISION  
 DATE

*David W. H. H.* 1/8/92  
 David W. H. H.  
 CHIEF, BUREAU OF HIGHWAYS  
 DATE

*John H. H. H.* 1-21-92  
 John H. H. H.  
 CHIEF, BUREAU OF ENGINEERING  
 DATE

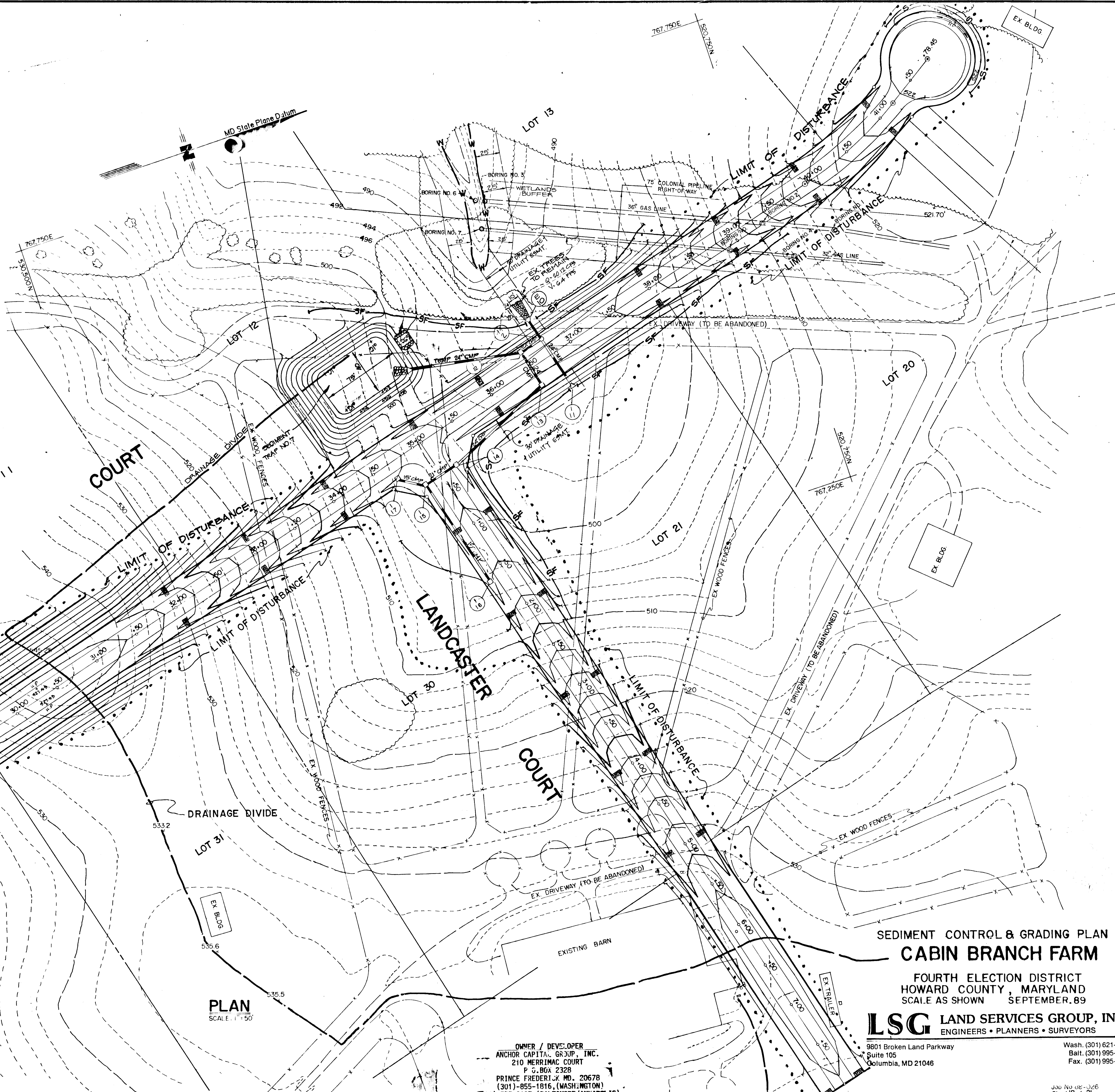
- DESIGN DATA**  
**SEDIMENT TRAP #7**
1. DRAINAGE AREA TO TRAP: 2.9 AC.
  2. TYPE OF TRAP: RIPRAP OUTLET
  3. VOLUME REQUIRED: 670 C.Y.
  4. VOLUME PROVIDED: 670 C.Y.
  5. WEIR WIDTH: 10.0' WEIR DEPTH: 2.0'
  6. WEIR CREST EL.: 496.00
  7. TOP OF EMBANKMENT EL.: 495.00'
  8. CLEANOUT EL.: 493.5
  9. BOTTOM EL.: 491.00
  10. TRAP DIMENSIONS (BOTTOM): 7.5' x 40'
  11. TRAP DEPTH: 4'
  12. SIDE SLOPES: 2:1

1635

- LEGEND**
- STABILIZED CONSTRUCTION ENTRANCE (SCE)
  - EARTH DIKE (ED)
  - SILT FENCE (SF)
  - STRAW BALE DIKE (SBD)
  - INLET PROTECTION (IP)
  - LIMIT OF DISTURBANCE
  - WETLANDS

**REVISIONS**

DATE	BY	DESCRIPTION
12-15-90	LSG	PER HOWARD COUNTY COMMENTS I.H.4-89



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

OWNER / DEVELOPER  
 ANCHOR CAPITAL GROUP, INC.  
 210 MERRIMAC COURT  
 P.O. BOX 2328  
 PRINCE FREDERICK, MD. 20678  
 (301)-855-1816, (WASHINGTON)  
 (301)-535-2107, (BALTIMORE/ANNAPOLIS)

**SEDIMENT CONTROL & GRADING PLAN**  
**CABIN BRANCH FARM**

FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE AS SHOWN SEPTEMBER, 89

**LSG LAND SERVICES GROUP, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS

9801 Broken Land Parkway  
 Suite 105  
 Columbia, MD 21046

Wash. (301) 621-8006  
 Balt. (301) 995-6010  
 Fax. (301) 995-6021



I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MDC DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

*Brian Johnson*  
 BRIAN JOHNSON, LICENSED IN MARYLAND  
 ANCHOR CAPITAL GROUP, INC.  
 DATE 12/13/91

**ENGINEER'S CERTIFICATE**

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

*David E. Piro*  
 DANIEL E. PIRO  
 REGISTRATION NO. 11791  
 DATE 12/12/91

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

*James M. Hester*  
 JAMES M. HESTER  
 HOWARD SOIL CONSERVATION SERVICE  
 DATE 12/17/91

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*John R. Johnston*  
 JOHN R. JOHNSTON  
 HOWARD SOIL CONSERVATION DISTRICT  
 DATE 12/17/91

APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING  
*Annunziata Holmuth*  
 ANNUNZIATA HOLMUTH  
 PLANNING DIVISION OF COMMUNITY PLANNING  
 AND LAND DEVELOPMENT  
 DATE 2/5/92

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Oliver M. Pagan*  
 OLIVER M. PAGAN  
 CHIEF, LAND DEVELOPMENT DIVISION  
 DATE 1/8/92

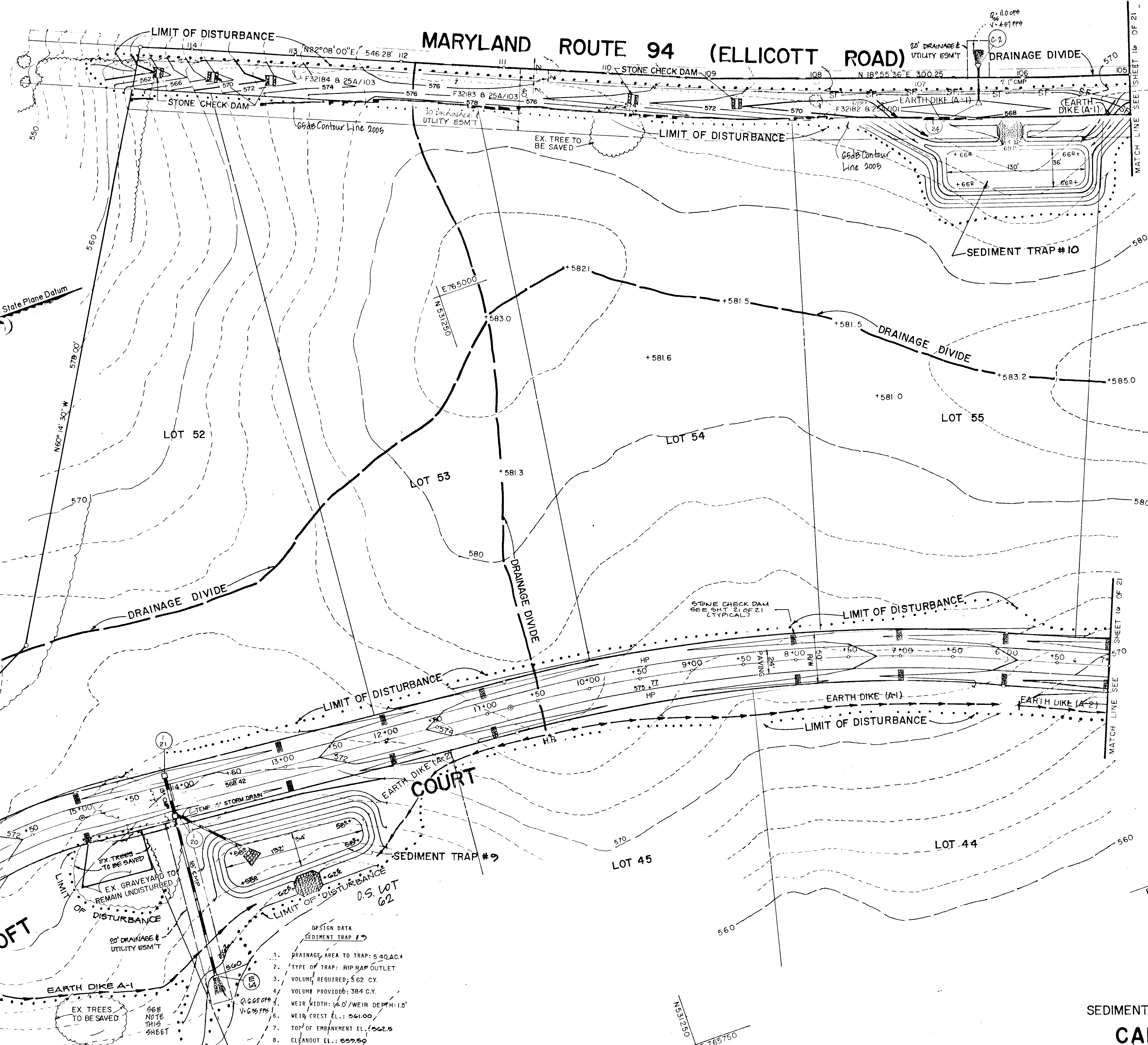
*Drumville W. Welstead*  
 DRUMVILLE W. WELSTEAD  
 CHIEF, BUREAU OF HIGHWAYS  
 DATE 1/8/92

*William E. Pugh*  
 WILLIAM E. PUGH  
 CHIEF, BUREAU OF ENGINEERING  
 DATE 1/11/92

**LEGEND**

- STABILIZED CONSTRUCTION ENTRANCE (SCE)
- EARTH DIKE (ED)
- SILT FENCE (SF)
- STRAW BALE DIKE (SBD)
- INLET PROTECTION (IP)
- LIMIT OF DISTURBANCE
- W - WETLANDS

REVISIONS		
DATE	BY	DESCRIPTION
12-15-90	LSG	PER HOWARD COUNTY COMMENTS 1/14/89

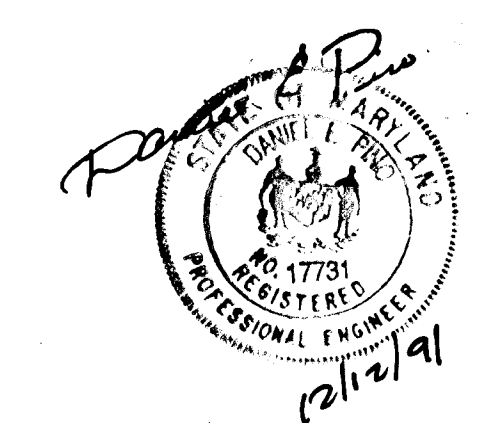


- DESIGN DATA  
 SEDIMENT TRAP #10
- DRAINAGE AREA TO TRAP: 5.45 AC.
  - TYPE OF TRAP: RIP RAP OUTLET
  - VOLUME REQUIRED: 366 C.Y.
  - VOLUME PROVIDED: 376 C.Y.
  - WEIR WIDTH: 14.0' / WEIR DEPTH: 1.5'
  - WEIR CREST EL.: 569.00'
  - TOP OF EMBANKMENT EL.: 572.25'
  - CLEANOUT EL.: 567.00'
  - BOTTOM EL.: 566.00'
  - TRAP DIMENSIONS (BOTTOM): 130' x 44'
  - TRAP DEPTH: 2'
  - SIDE SLOPES: 2:1

\* NOTE: EARTH DIKE IS TO BE REPAIRED IMMEDIATELY IF INTERRUPTED DUE TO THE INSTALLATION OF THE STORM DRAINS.

- DESIGN DATA  
 SEDIMENT TRAP #9
- DRAINAGE AREA TO TRAP: 5.40 AC.
  - TYPE OF TRAP: RIP RAP OUTLET
  - VOLUME REQUIRED: 562 C.Y.
  - VOLUME PROVIDED: 384 C.Y.
  - WEIR WIDTH: 14.0' / WEIR DEPTH: 1.5'
  - WEIR CREST EL.: 561.00'
  - TOP OF EMBANKMENT EL.: 562.5'
  - CLEANOUT EL.: 559.50'
  - BOTTOM EL.: 558.00'
  - TRAP DIMENSIONS (BOTTOM): 132' x 34'
  - TRAP DEPTH: 2'
  - SIDE SLOPES: 2:1

PLAN  
 SCALE 1" = 50'



OWNER / DEVELOPER  
 ANCHOR CAPITAL GROUP, INC.  
 210 MERRIMAC COURT  
 P.O. BOX 2328  
 PRINCE FREDERICK, MD. 20678  
 (301)-955-1816, (WASHINGTON)  
 (301)-535-2107, (BALTIMORE/ANNAPOLIS)

SEDIMENT CONTROL & GRADING PLAN  
**CABIN BRANCH FARM**  
 FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE AS SHOWN SEPTEMBER, 89

**LSG LAND SERVICES GROUP, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS

9801 Broken Land Parkway  
 Suite 105  
 Columbia, MD 21046

Wash. (301) 621-8006  
 Balt. (301) 995-6010  
 Fax. (301) 995-6021

DEVELOPER'S CERTIFICATE

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MD DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

*Brian Johnson* 12/13/91  
 BRIAN JOHNSON, ENGINEER IN CHARGE  
 ANCHOR CAPITAL GROUP, INC.

ENGINEER'S CERTIFICATE

"I CERTIFY THAT THIS THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

*Daniel P. Piro* 12/12/91  
 DANIEL P. PIRO  
 REGISTRATION NO. 17731

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

*Jane M. Wood* 12/17/91  
 JANE M. WOOD  
 SOIL CONSERVATION SERVICE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*John R. Schuster* 12/17/91  
 JOHN R. SCHUSTER  
 HOWARD SOIL CONSERVATION DISTRICT

APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING  
*Emma Helms* 8/5/92  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Oliver M. Ryan* 1/14/92  
 CHIEF, LAND DEVELOPMENT DIVISION

*Travis W. Weiland* 1/8/92  
 TRAVIS W. WEILAND  
 CHIEF, BUREAU OF HIGHWAYS

*William E. Ray* 1-21-92  
 WILLIAM E. RAY  
 CHIEF, BUREAU OF ENGINEERING

DESIGN DATA  
 SEDIMENT TRAP # 8

1. DRAINAGE AREA TO TRAP: 190 AC.
2. TYPE OF TRAP: STONE OUTLET
3. VOLUME REQUIRED: 73 C.Y.
4. VOLUME PROVIDED: 95 C.Y.
5. WEIR WIDTH: 6' WEIR DEPTH: 1'-0"
6. WEIR CREST EL.: 510.00
7. TOP OF EMBANKMENT EL.: 512.00
8. CLEANOUT EL.: 508.50
9. BOTTOM EL.: 507.00
10. TRAP DIMENSIONS (BOTTOM): 40'x78'
11. TRAP DEPTH: 2'
12. SIDE SLOPES: 2:1

DESIGN DATA  
 SEDIMENT TRAP # 9

1. DRAINAGE AREA TO TRAP: 172 AC.
2. TYPE OF TRAP: STONE OUTLET
3. VOLUME REQUIRED: 116 C.Y.
4. VOLUME PROVIDED: 139 C.Y.
5. WEIR WIDTH: 4' WEIR DEPTH: 1'-0"
6. WEIR CREST EL.: 515.00'
7. TOP OF EMBANKMENT EL.: 517.00'
8. CLEANOUT EL.: 513.00'
9. BOTTOM EL.: 512.00
10. TRAP DIMENSIONS (BOTTOM): 60'x25'
11. TRAP DEPTH: 2'
12. SIDE SLOPES: 2:1

LEGEND

- STABILIZED CONSTRUCTION ENTRANCE (SCE)
- EARTH DIKE (ED)
- SILT FENCE (SF)
- STRAW BALE DIKE (SBD)
- INLET PROTECTION (IP)
- LIMIT OF DISTURBANCE
- WETLANDS

REVISIONS

DATE	BY	DESCRIPTION
12-15-90	LSG	PER HOWARD COUNTY COMMENTS 11-14-89

PLAN  
 SCALE 1"=50'

OWNER / DEVELOPER  
 ANCHOR CAPITAL GROUP, INC.  
 210 MERRIMAC COURT  
 P.O. BOX 2328  
 PRINCE FREDERICK, MD. 20678  
 (301)-35-1816, (WASHINGTON)  
 (301)-35-2107, (PACIFIC TIME ZONE)



SEDIMENT CONTROL & GRADING PLAN  
**CABIN BRANCH FARM**

FOURTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE AS SHOWN SEPTEMBER, 89

**LSG** LAND SERVICES GROUP, INC.  
 ENGINEERS • PLANNERS • SURVEYORS

9801 Broken Land Parkway  
 Suite 105  
 Columbia, MD 21046  
 Wash. (301) 621-8006  
 Balt. (301) 995-6010  
 Fax. (301) 995-6021



DEVELOPER'S CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MEETING OF THE DEPARTMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Brian Johnson 12/13/91
ANCHOR CAPITAL GROUP, INC.

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

Rail O'Brien 12/16/91
REGISTRATION NO. 17191

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

John R. Roberts 12/17/91

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

John R. Roberts 12/17/91

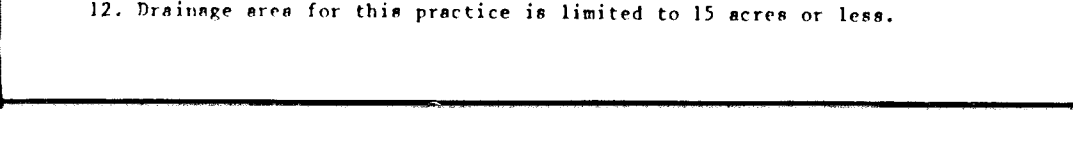
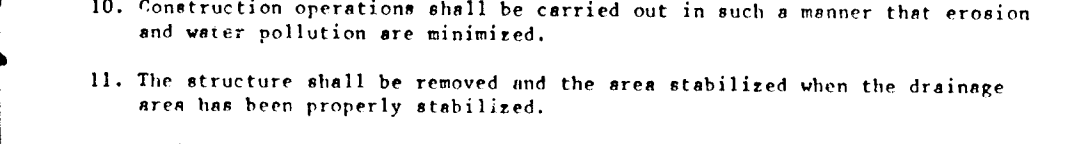
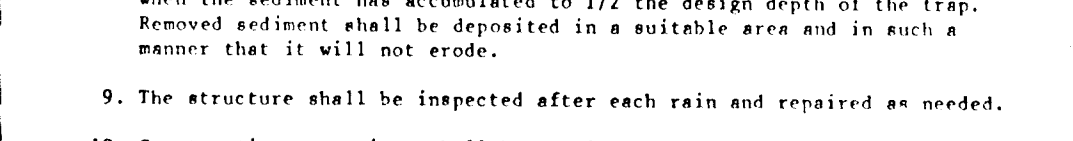
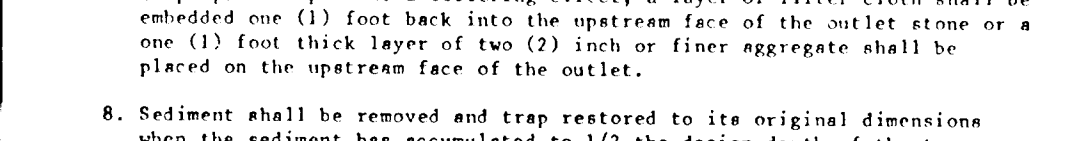
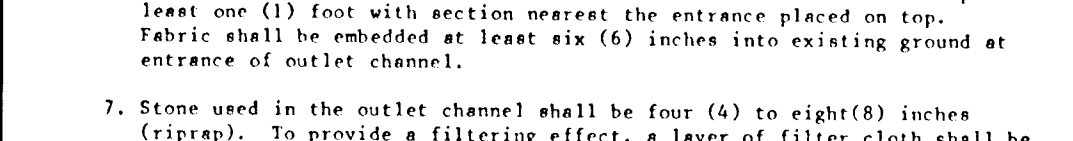
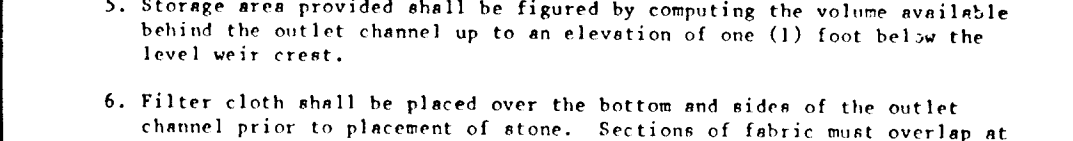
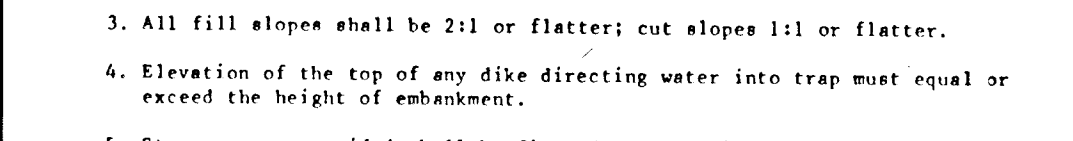
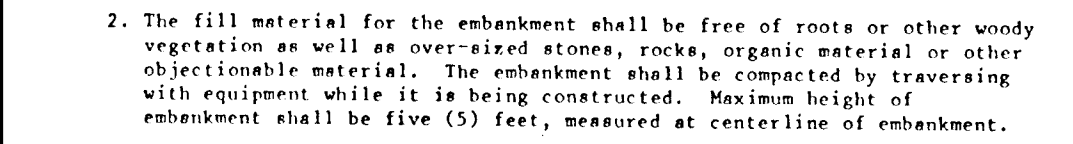
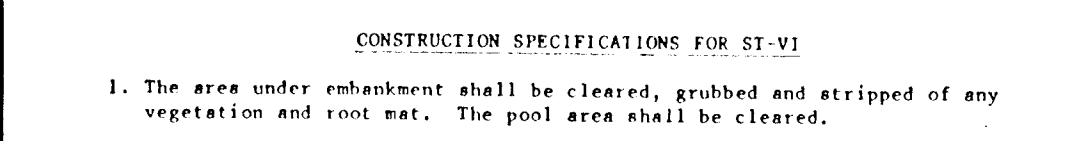
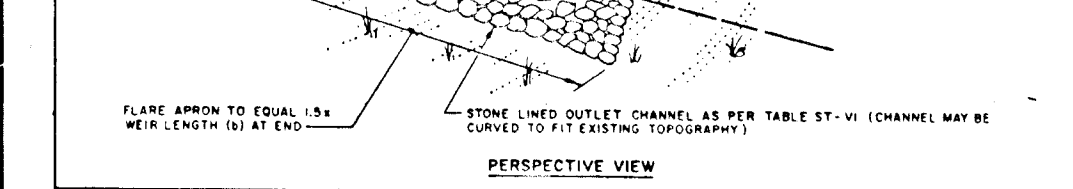
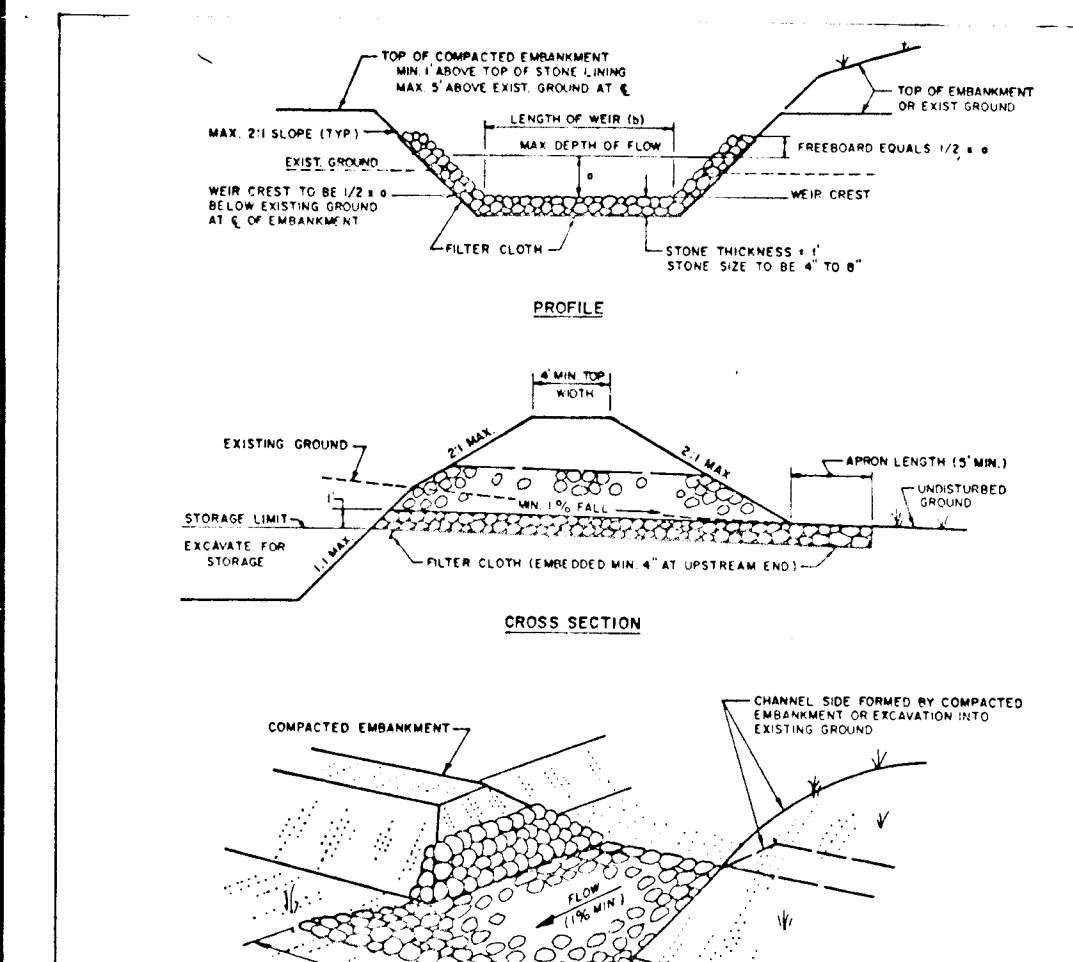
APPROVED HOWARD COUNTY DEPARTMENT PLANNING AND ZONING
James Edomash 1/5/92

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

John A. Pappas 1/16/92

Shirley W. Welsch 1/18/92

William S. Jones 1/21/92



STONE OUTLET SEDIMENT TRAP ST-VI
CONSTRUCTION SPECIFICATIONS FOR ST-VI
1. The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.

SILT FENCE SF-I
CONSTRUCTION NOTES FOR FABRICATED SILT FENCE
1. Woven wire fence to be fastened securely to fence posts with wire ties or staples.

STRAW BALE DIKE SBD-I
CONSTRUCTION SPECIFICATIONS
1. Bales shall be placed at the toe of a slope or on the contour and in a row with ends tightly abutting the adjacent bales.

STABILIZED CONSTRUCTION ENTRANCE not to scale
CONSTRUCTION SPECIFICATIONS
1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.

EARTH DIKE ED-I
CONSTRUCTION SPECIFICATIONS
1. All dikes shall be compacted by earthmoving equipment.

STONE CHECK DAM ST-V
CONSTRUCTION SPECIFICATIONS
1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.

STABILIZED CONSTRUCTION ENTRANCE not to scale
CONSTRUCTION SPECIFICATIONS
1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.

EARTH DIKE ED-I
CONSTRUCTION SPECIFICATIONS
1. All dikes shall be compacted by earthmoving equipment.

STONE CHECK DAM ST-V
CONSTRUCTION SPECIFICATIONS
1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.

STONE CHECK DAM NOT TO SCALE
CROSS SECTION VIEW
4" MIN. TO 6" MAX. CLASS II RIPRAP W/ FILTER CLOTH

STONE CHECK DAM NOT TO SCALE
CROSS SECTION VIEW
4" MIN. TO 6" MAX. CLASS II RIPRAP W/ FILTER CLOTH

STONE CHECK DAM NOT TO SCALE
CROSS SECTION VIEW
4" MIN. TO 6" MAX. CLASS II RIPRAP W/ FILTER CLOTH

SEDIMENT CONTROL NOTES
1. A minimum of 24 hours notice must be given to the HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. (992-2437)

PERMANENT SEEDING NOTES
APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEDIMENT CONTROL DETAILS & NOTES
CABIN BRANCH FARM
FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE AS SHOWN SEPTEMBER, 89

LSG LAND SERVICES GROUP, INC.
ENGINEERS • PLANNERS • SURVEYORS
8901 Broken Land Parkway
Columbia, MD 21046



1635