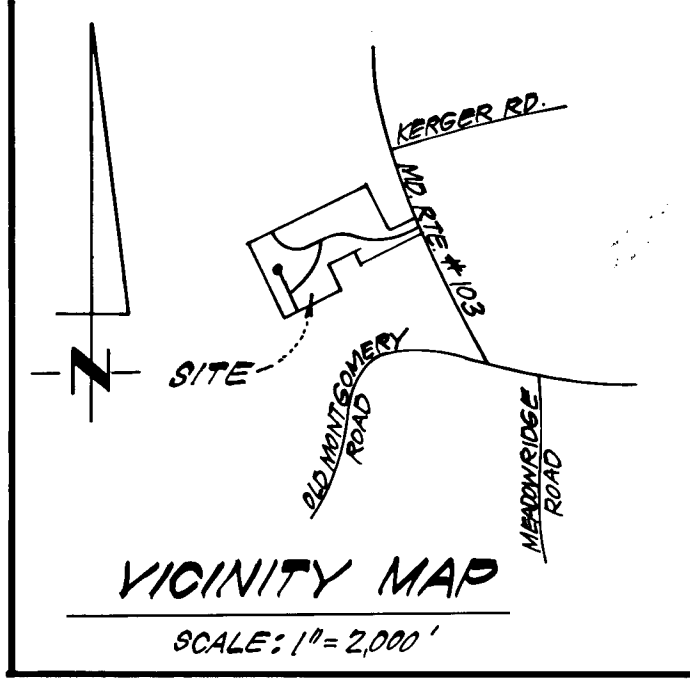


**CURB & GUTTER LEGEND**  
 Rev. Mod. Curb & Gutter  
 Mod. Curb & Gutter

**HUNT COUNTRY ESTATES SECTION ONE**

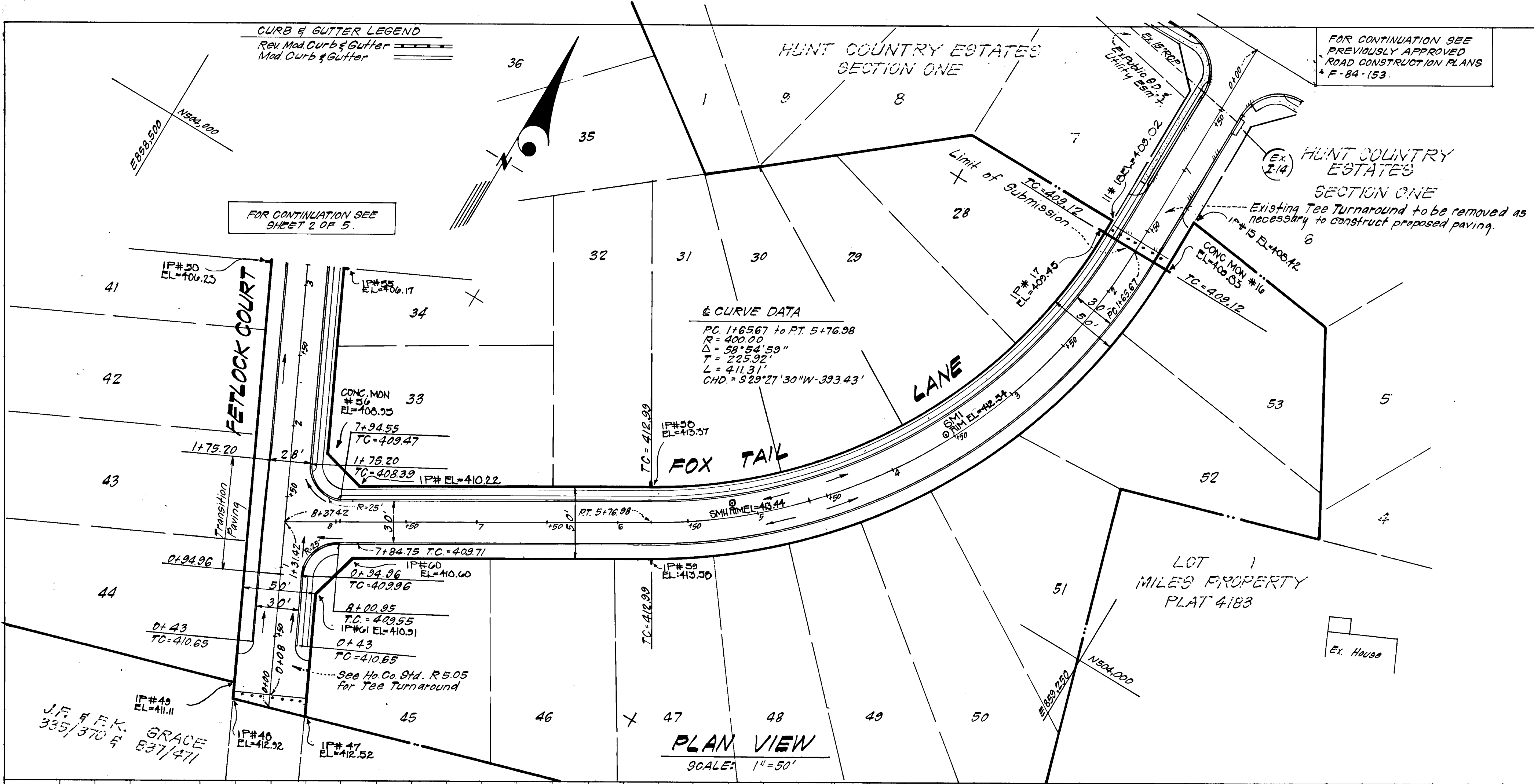
FOR CONTINUATION SEE PREVIOUSLY APPROVED ROAD CONSTRUCTION PLANS F-84-153.



- GENERAL NOTES:**
- All storm drain and paving shall be constructed in accordance with the latest details and specifications of Howard County of Md. SHA.
  - Types of Storm Drain structures refer to the Standard Details of Howard County of Maryland State Highway Administration.
  - Trench Compaction for storm drains, within Road or Street rights of way limits shall be in accordance with Howard Co. Design Manual Vol. III (Class "C" Trench Bedding to be used for all Storm Drains except where shown otherwise).
  - Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location and elevation of the mains by digging test pits, by hand, at all utility crossings, well in advance of construction.
  - All Utility companies shall be notified 24 hrs in advance of construction.
  - All traffic control devices, parking, and signing to be done in accordance with the Manual of Uniform Traffic Control Devices, 1971 Edition.
  - Sag and Crest Vertical Curves were designed in accordance with "A Policy on Geometric Design of Rural Highways," 1965, by AASHTO.
  - Provide Concrete Sidewalk ramps, Ho. Co. Std. Type A, R.4.01 where shown in plan.
  - Design Speed: 30 mph; Zoning: R-20
  - Stormwater management for this development provided under F-84-153.

FOR CONTINUATION SEE SHEET 2 OF 5

**CURVE DATA**  
 PC 116567 to PT 5+76.98  
 R = 400.00  
 $\Delta = 58^{\circ}54'59''$   
 T = 225.92'  
 L = 411.31'  
 CHD = S29°27'30"W-393.43'



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



D. H. Eck  
 5-24-84

APPROVED: Department of Public Works		
<i>[Signature]</i>	10/26/84	Date
Chief, Bureau of Engineering		
APPROVED: Howard County Office of Planning & Zoning		
<i>[Signature]</i>	10-23-84	Date
Chief, Division of Land Development & Zoning Administration		
<b>CLARK · FINEFROCK &amp; SACKETT</b>		
ENGINEERS-PLANNERS-SURVEYORS		
11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400		
DESIGNED	ROAD CONSTRUCTION PLANS	SCALE
J.L.S.	FOX TAIL LANE	As Shown
DRAWN		DRAWING
V.L.B.	HUNT COUNTRY ESTATES	10/F5
CHECKED	SECTION TWO	JOB NO.
J.L.S.	1ST ELECTION DISTRICT	79-064
DATE	HOWARD COUNTY, MARYLAND	FILE NO.
May, 1984	FOR: W.A. Kehoe Company	79-064-D
	One Knoll North Drive	
	Columbia, Maryland 21045	

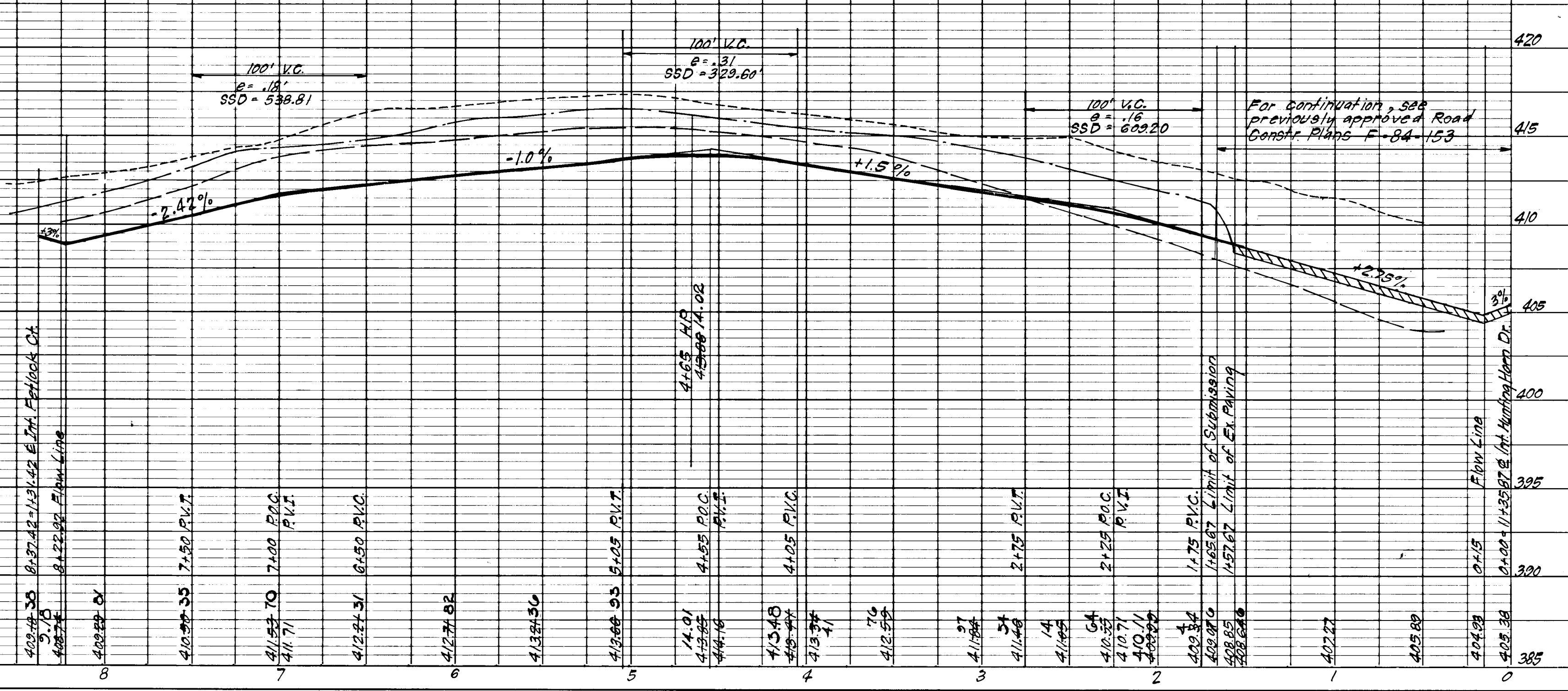
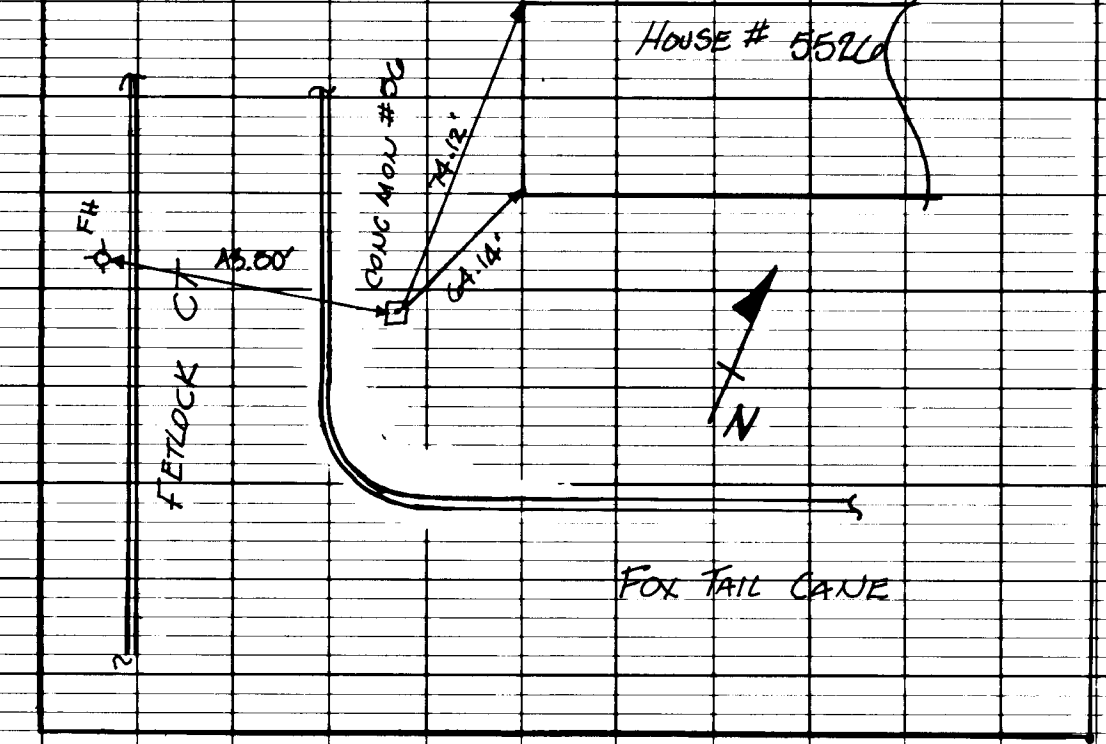
**PROFILE LEGEND**  
 Profile Grade Line  
 B.R.L. (Rk)  
 B.R.L. (L&L)  
 Existing E

AS-BUILT SURVEY CERTIFIED BY DONALD B. SACKETT, M.D. REG. P.E. NO. 8059 ON AUG. 20, 1986

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

**PROFILE ~ FOX TAIL LANE**

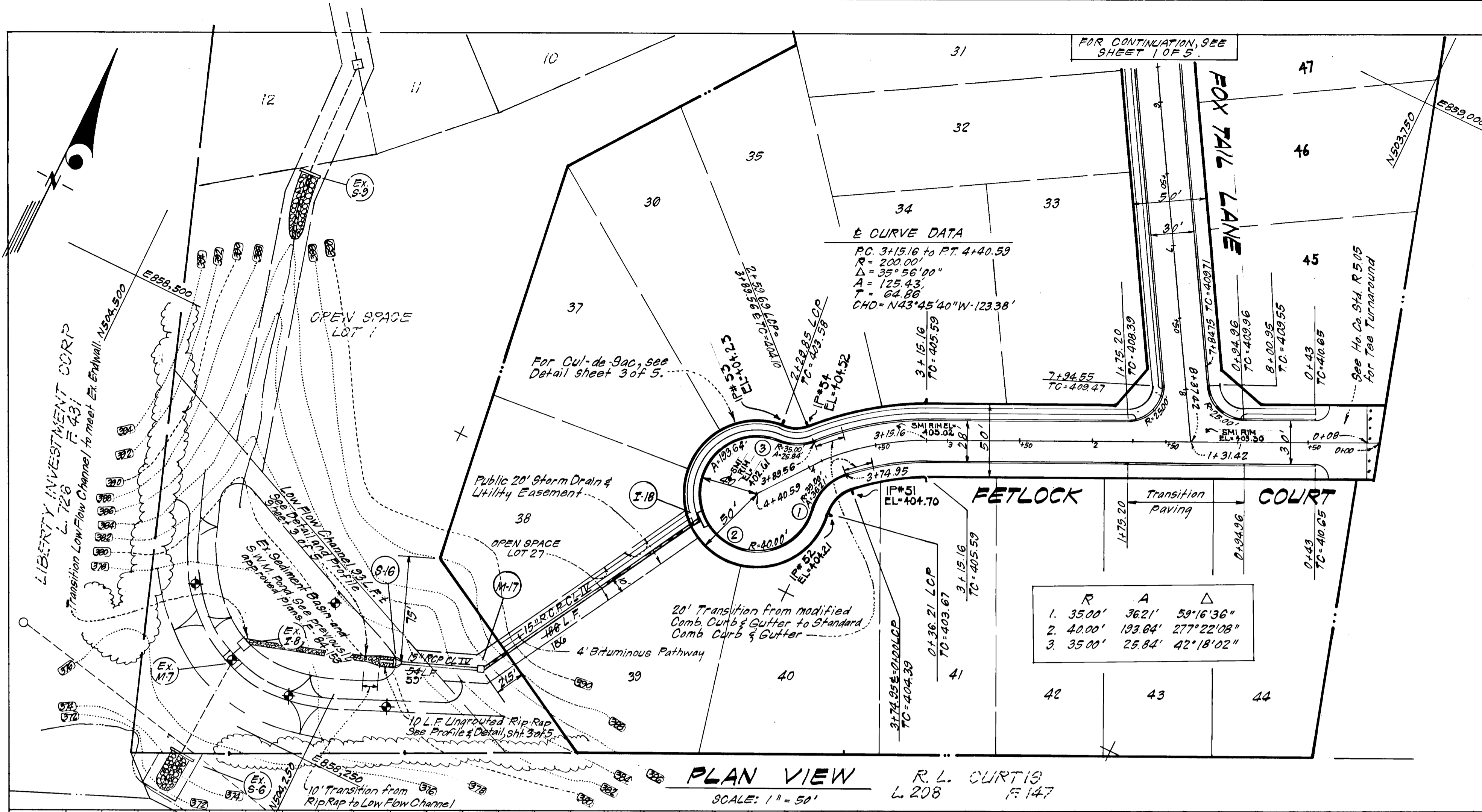
**RECOVERY SKETCH-MONUMENT #56 NO SCALE**



AS-BUILT  
 6/20/86

**F-84-199**

#1059



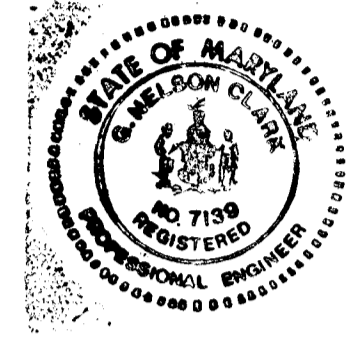
**CURB & GUTTER LEGEND**  
 Standard 7" Curb & Gutter  
 Mod. Comb. Curb & Gutter  
 Rev. Mod. Comb. Curb & Gutter

Reviewed for Howard S.C.D.  
 Name  
 and ins: Technical Requirements  
 Signature [Signature] Date [Date]  
 U.S. Soil Conservation Service

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

[Signature] 10-22-84  
 Approved Date

**ENGINEER'S CERTIFICATE**  
 I hereby certify that this plan for Erection and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.



[Signature] 5-24-84  
 G. Nelson Clark Date

**DEVELOPER'S/BUILDER'S CERTIFICATE**  
 "I/we certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. 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 or their authorized agents, as are deemed necessary."

[Signature] July 23, 1984  
 Signature of Developer/Builder Date  
 Walter A. Kehoe

APPROVED: Department of Public Works  
[Signature] 10/26/84  
 Chief, Bureau of Engineering Date  
 APPROVED: Howard County Office of Planning & Zoning  
[Signature] 10-23-84  
 Chief, Division of Land Development & Zoning Administration Date

**CLARK · FINEFROCK & SACKETT**  
 ENGINEERS-PLANNERS-SURVEYORS  
 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400

DESIGNED J.L.B.	ROAD CONSTRUCTION PLANS FETLOCK COURT	SCALE As Shown
DRAWN V.L.B.	<b>HUNT COUNTRY ESTATES</b>	DRAWING 2 OF 5
CHECKED J.L.B.	SECTION TWO 1ST ELECTION DISTRICT	JOB NO. 79-064
DATE May, 1984	FOR: W. A. Kehoe Company One Knoll North Drive Columbia, Maryland 21045	FILE NO. 79-064-D

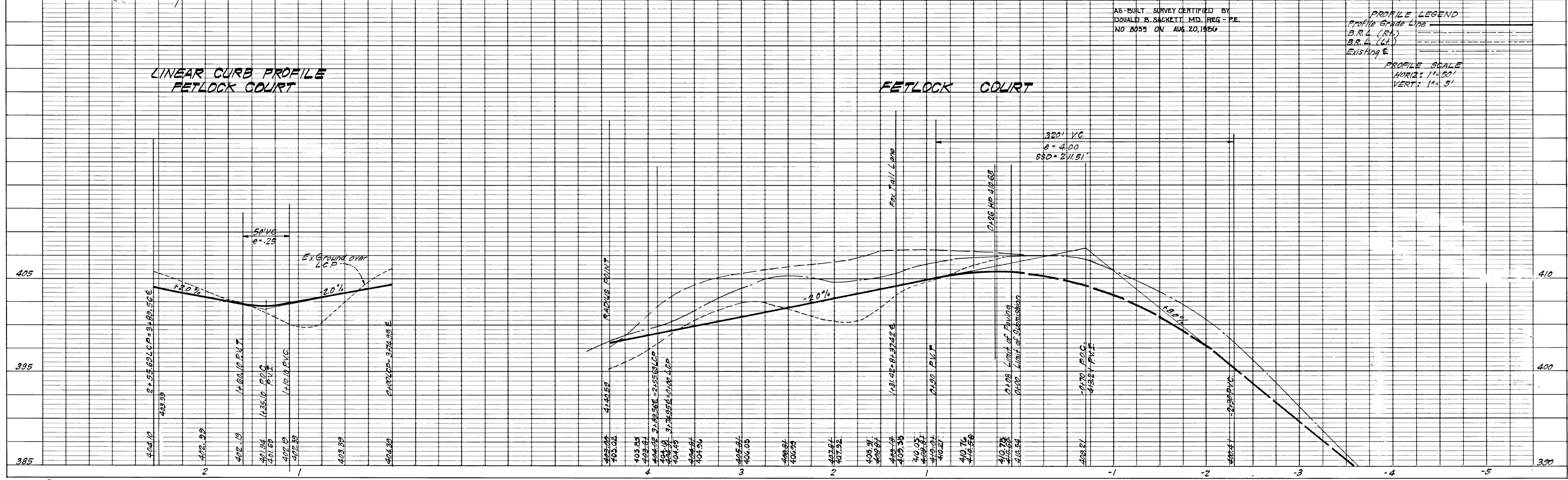
AS-BUILT SURVEY CERTIFIED BY  
 DONALD B. SACKETT MD. REG-PE  
 NO 8055 ON AUG. 20, 1986

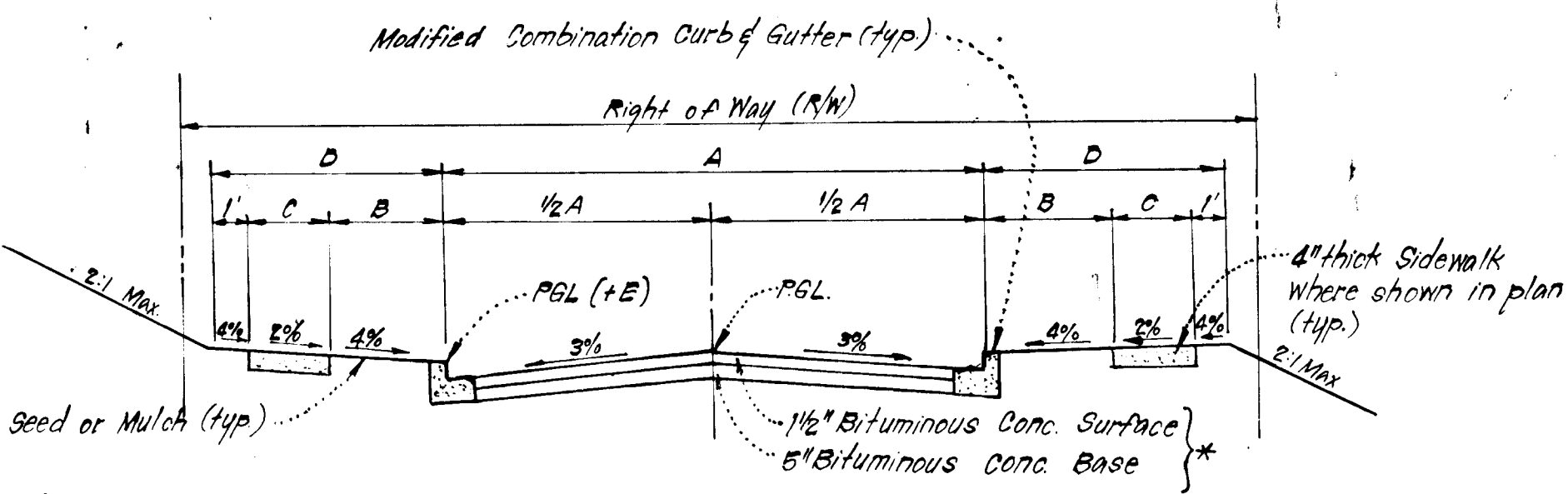
**PROFILE LEGEND**  
 Profile Grade Line  
 B.R.L. (R.A.)  
 B.R.L. (L.A.)  
 EXISTING E

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

**LINEAR CURB PROFILE  
 FETLOCK COURT**

**FETLOCK COURT**

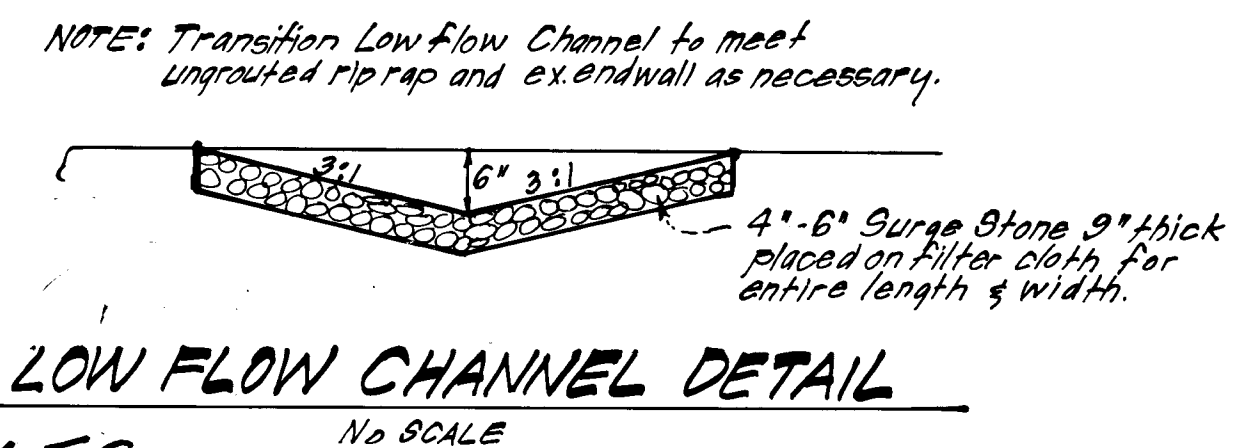
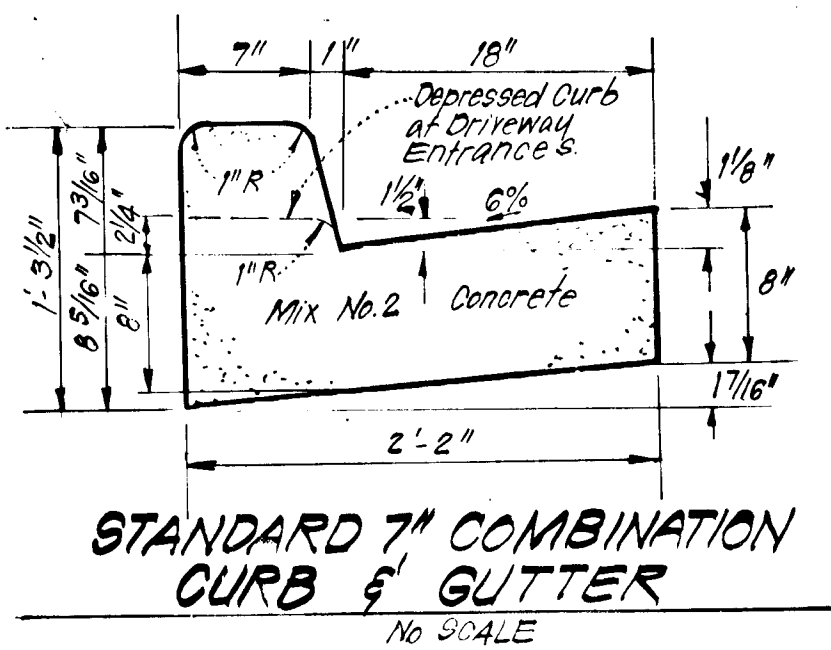
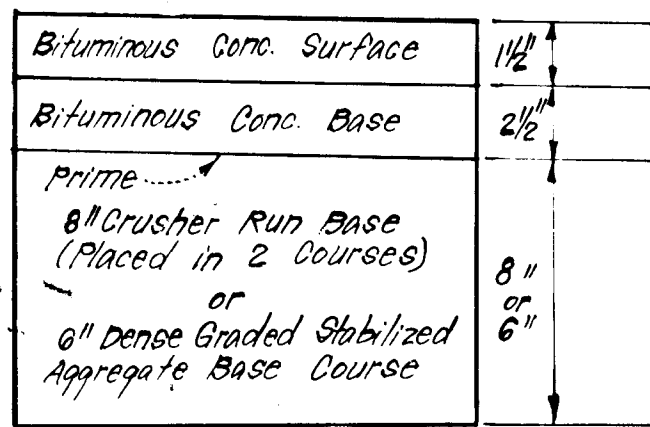
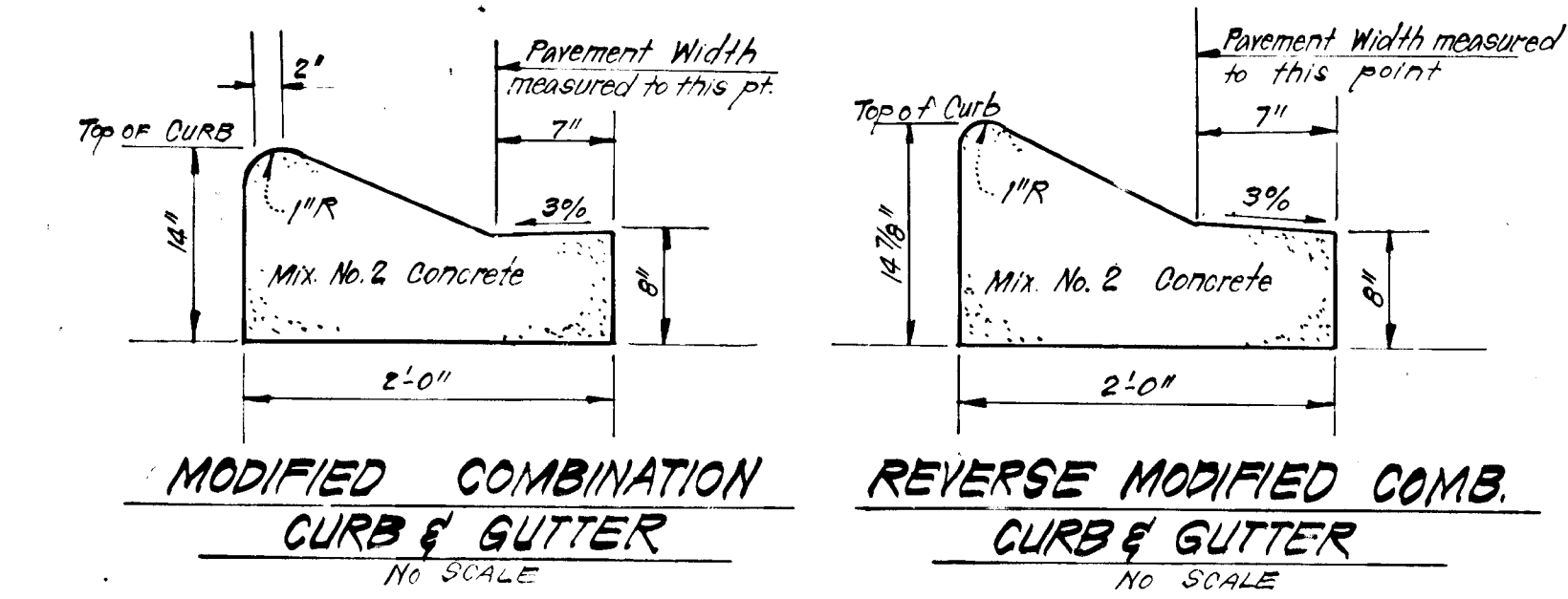




\* For Alternate Paving Section - See det. this sht.  
**TYPICAL PAVING SECTION - PUBLIC ROADS**

NO SCALE

STREET NAME & STATION	TYPE OF TRAFFIC	A	B	C	D	R/W	ZONING	DESIGN SPEED	E
Fox Tail Lane: Sta. 1+63.67 To Sta. 8+37.42	Local	30'	4'	4'	9'	50'	R-20	30	+05
Fatlock Court: Sta. 0+00.00 To Sta. 1+31.42	Local	30'	4'	4'	9'	50'	R-20	30	-05
Fatlock Court: Sta. 1+31.42 To Sta. 4+40.59	Cul-de-sac	28'	4'	4'	9'	50'	R-20	30	+08



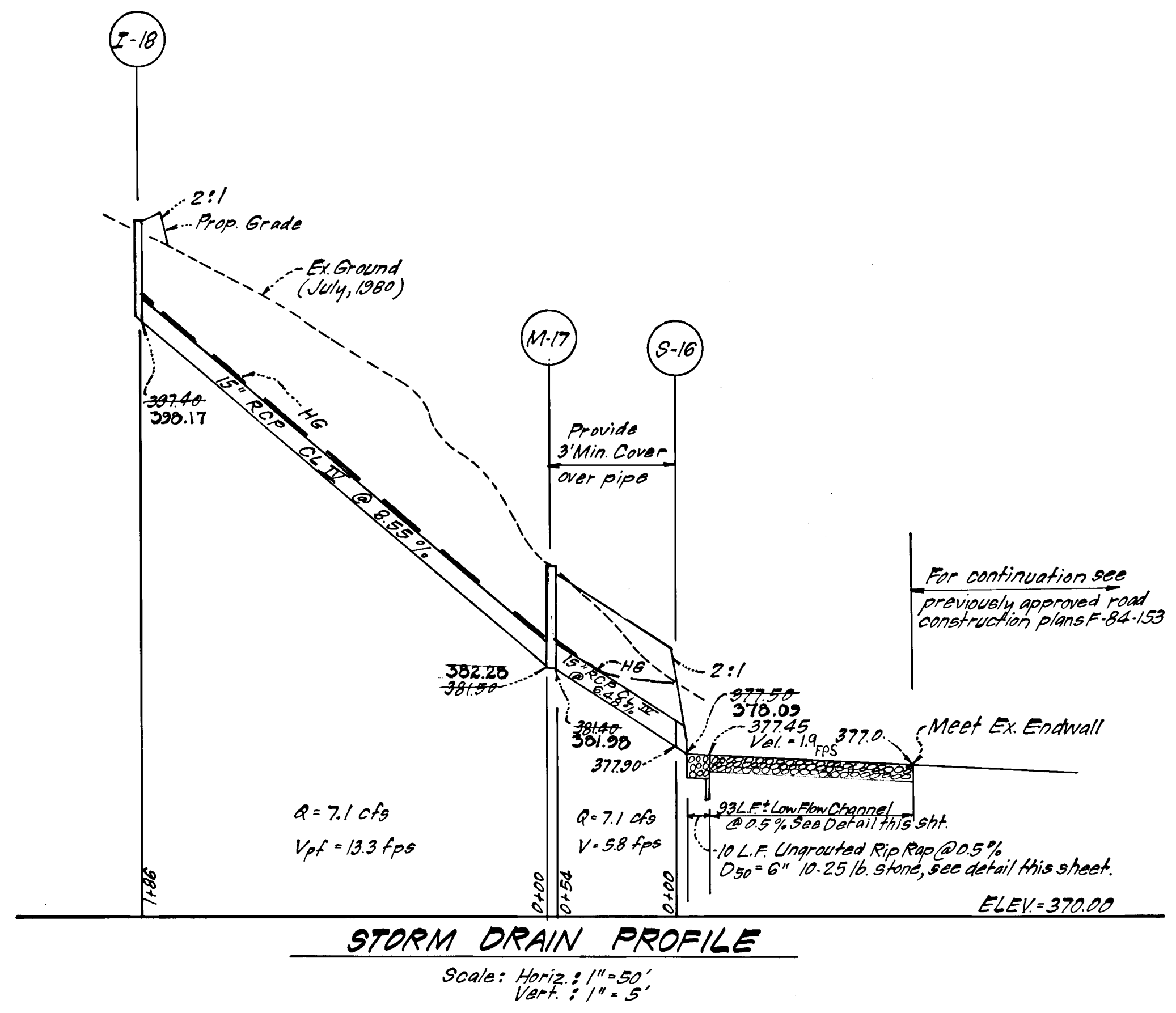
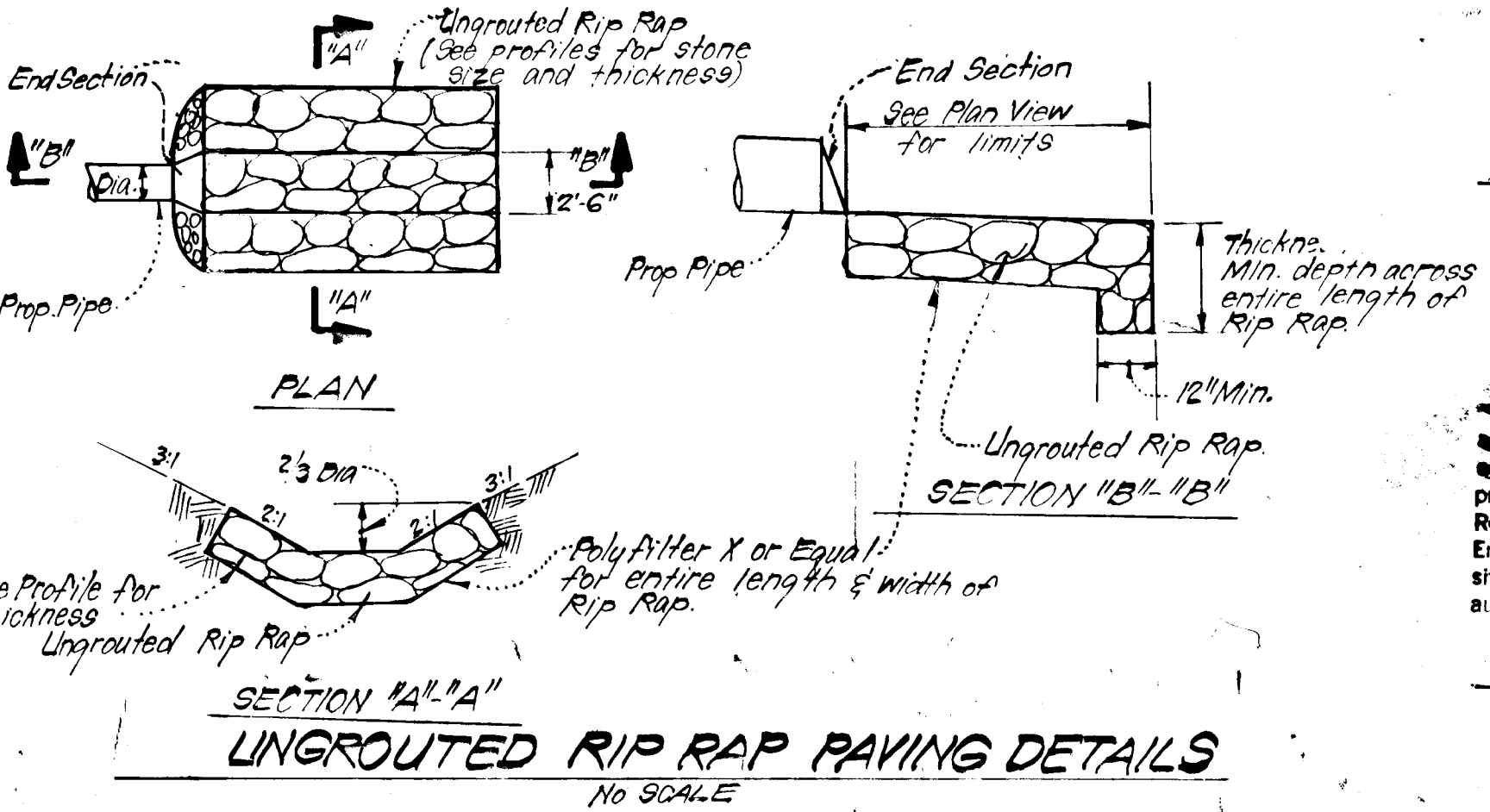
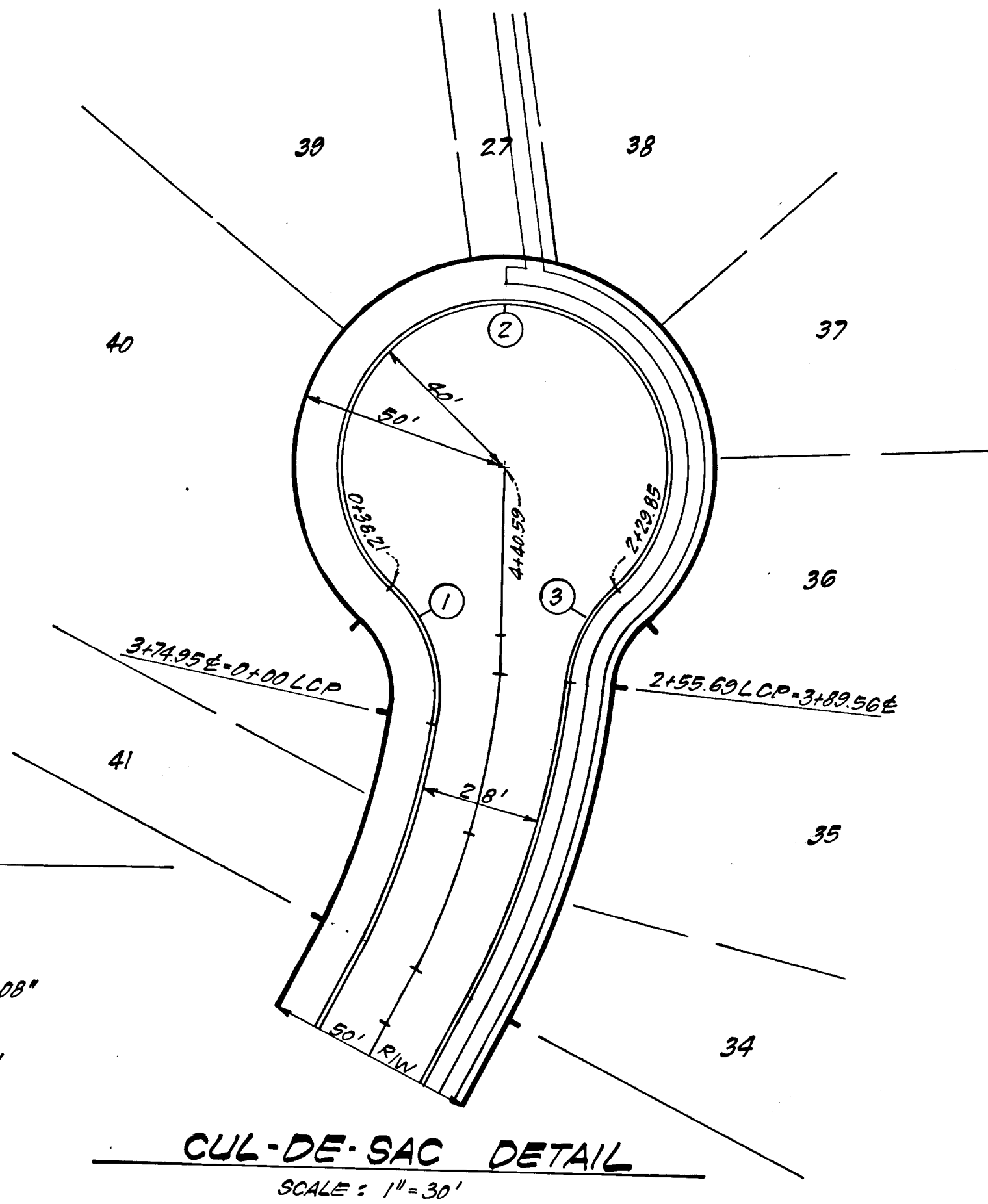
**STRUCTURE SCHEDULE**

No.	TYPE	INV. IN	INV. OUT	TOP ELEVATION		REMARKS	LOCATION
				UPPER	LOWER		
9-16	Conc. End Section	377.90	377.50			Ho Co. 944.90 5.51 Dia = 15"	See Plan
M-17	Shallow Manhole	381.50	381.40	386.00	386.00	Ho Co. 944.6 5.05 48" Dia	See Plan
				387.44	387.44	Ho Co. 944.90 4.02 W = 2'-6"	See Plan
				385.90	385.90		
				401.51	401.50		

△ All inverts to be fully developed.

**PIPE SCHEDULE**

SIZE	TYPE	LENGTH
15"	RCP OL IV	240 L.F.



AS-BUILT SURVEY CERTIFIED BY:  
 DONALD B. SACKETT, M.D., REG. P.E.  
 NO. 5053 ON AUG. 2, 1980

**ENGINEER'S CERTIFICATE**

I hereby 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.

*G. Nelson Clark* 5-24-84  
 G. Nelson Clark Date



**DEVELOPER/BUILDER'S CERTIFICATE**

I hereby certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. 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 or their authorized agents, as are deemed necessary.

*Walter A. Kehoe* July 23, 1984  
 signature of Developer/Builder Date  
 Walter A. Kehoe

Reviewed for: *Howard* S.C.D. Name  
 and meets Technical Requirements  
*Walter A. Kehoe* Date  
 U.S. Soil Conservation Service

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

*Walter A. Kehoe* 10-22-84  
 Approved Date

APPROVED: Department of Public Works

*W. A. Kehoe* 10/22/84 Date  
 Chief, Bureau of Engineering

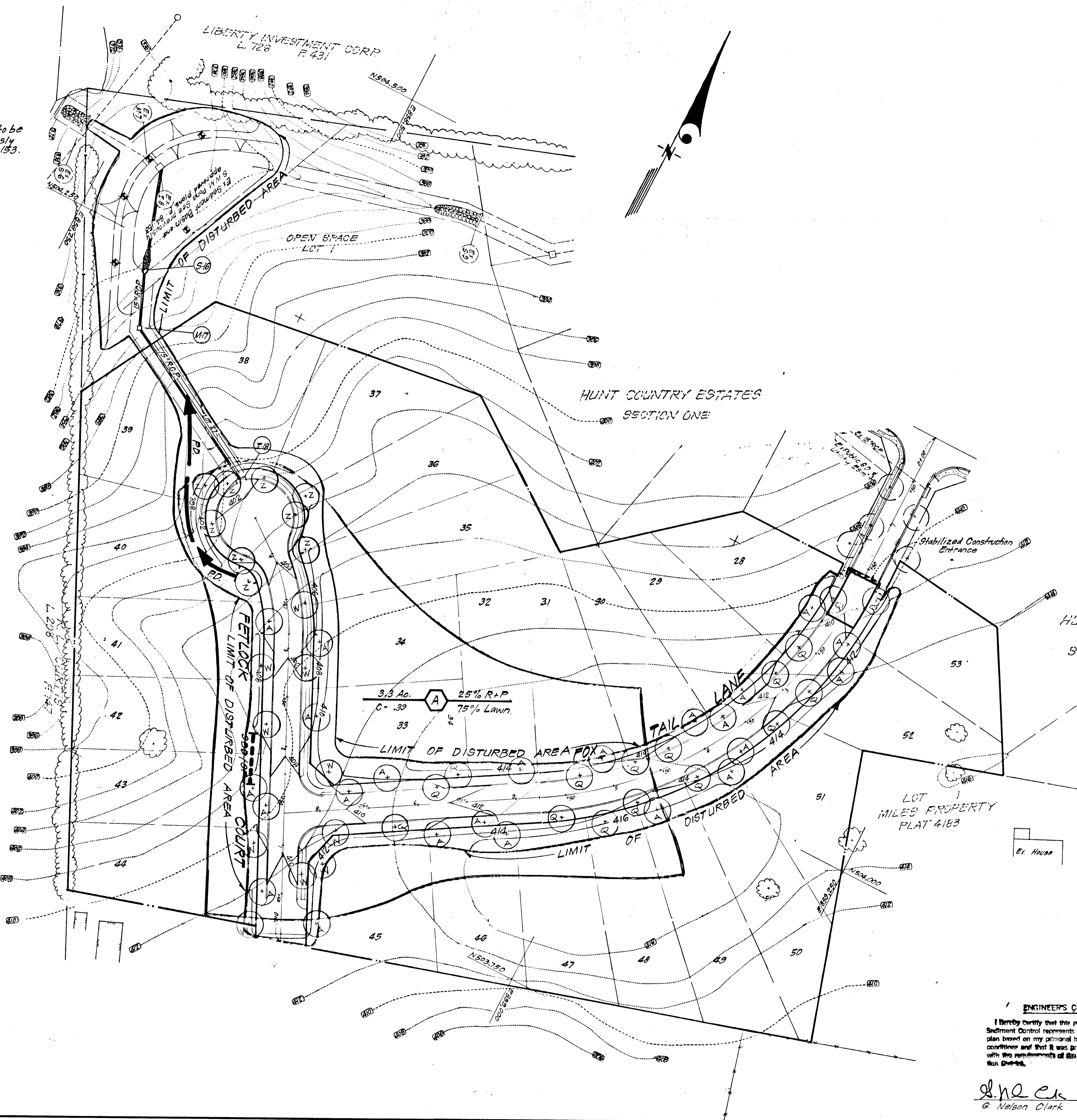
APPROVED: Howard County Office of Planning and Zoning

*John W. Muehlen* 10-23-84 Date  
 County Director of Land Use Planning & Zoning Administration

**CLARK · FINEFROCK & SACKETT**  
 ENGINEERS · PLANNERS · SURVEYORS  
 11314 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 (301) 593-3400

DESIGNED	J.L.S.	ROAD CONSTRUCTION PLANS, STORM DRAINAGE & PAVING DETAILS	SCALE	As Shown
DRAWN	J.L.S.		DRAWING	3 OF 5
CHECKED	V.L.B.		JOB NO.	79-064
DATE	J.L.S.	SECTION TWO 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	FILE NO.	79-064-D
		FOR: W. A. Kehoe Company One Knoll North Drive Columbia, Maryland 21045		

NOTE: Ex. Sediment Basin to be utilized. See previously approved plans F-84-153.



KEY	PLANT NAME	SIZE	QUAN.	REMARKS
(A)	ACER PLURIMUM DET. GLORY CROPPED GLORY MAPLE	2 1/2" CAL. MIN.	23	B&P HEAVY HEADS
(Q)	QUERCUS FALCATA PIN OAK		16	
(W)	QUERCUS PHELLOS WILLOW OAK		10	
(Z)	ZELKOVA VILLAGE EPY VILLAGE GREEN ZELKOVA		9	

NOTE: 1. Contractor shall verify location of underground utilities prior to digging.  
2. Final locations of trees may be adjusted slightly to accommodate field conditions.  
3. Planting procedures shall comply with "Landscape Specifications for Baltimore-Washington Metropolitan Areas."

**LEGEND:**

1. Contour Interval 2 Ft.
2. Existing Contour
3. Proposed Grade 4.0
4. Existing Trees
5. Proposed Storm Drain
6. Perimeter Dike
7. Straw Bale Dike/Silt Fence

Reviewed for Howard S.C.I.  
Name  
and meets Technical Requirements  
Stephen L. Hub  
Signature Date  
U.S. Soil Conservation Service

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

Stephen L. Hub 10-22-84  
Approved Date

**DEVELOPER'S/BUILDER'S CERTIFICATE**

"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. 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 or their authorized agents, as are deemed necessary."

Walter A. Kehoe July 23, 1984  
Signature of Developer/Builder Date  
Walter A. Kehoe

APPROVED: Department of Public Works  
J. L. S. 10/24/84  
Chief, Bureau of Engineering Date  
APPROVED: Howard County Office of Planning & Zoning  
John W. Mueselman 10-23-84  
Chief, Division of Land Development & Zoning Administration Date



**ENGINEER'S CERTIFICATE**  
I hereby 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.  
G. Nelson Clark 5-24-84  
Date

**CLARK · FINEFROCK & SACKETT**  
ENGINEERS-PLANNERS-SURVEYORS  
11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400

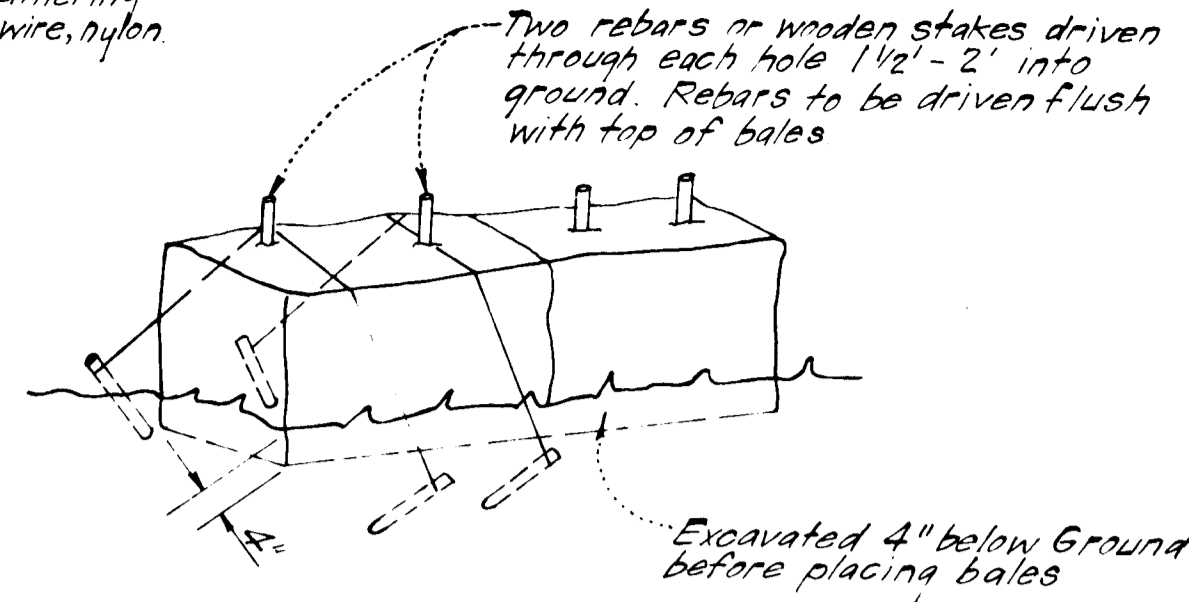
DESIGNED J.L.S.	SEDIMENT & EROSION CONTROL PLAN AND DRAINAGE AREA MAP	SCALE As Shown
DRAWN V.L.B.	HUNT COUNTRY ESTATES	DRAWING 40FS
CHECKED J.L.S.	SECTION TWO 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 79-064
DATE May, 1984	FOR: W. A. Kehoe Company One Knoll North Drive Columbia, Md. 21045	FILE NO. 79-064-D

1059

9/20/86

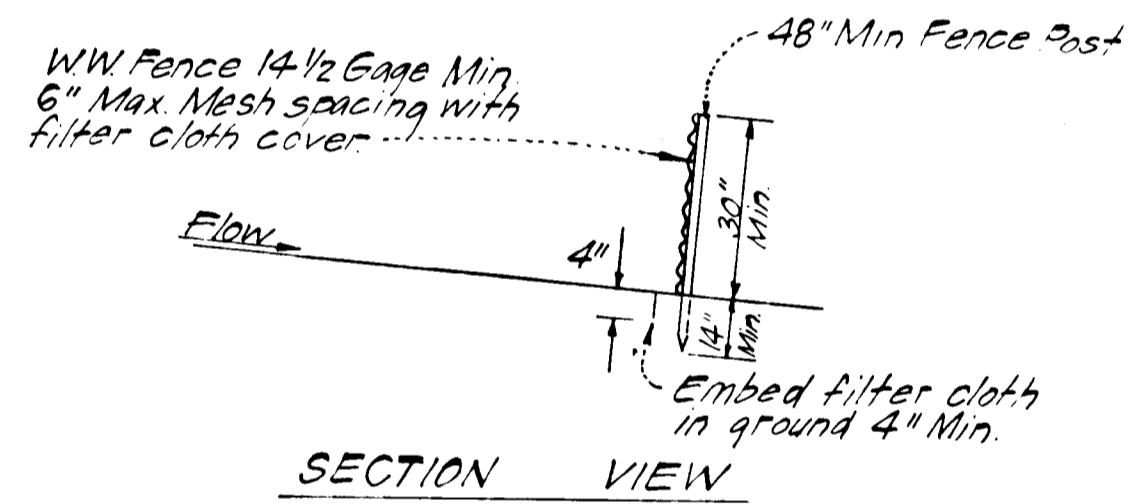
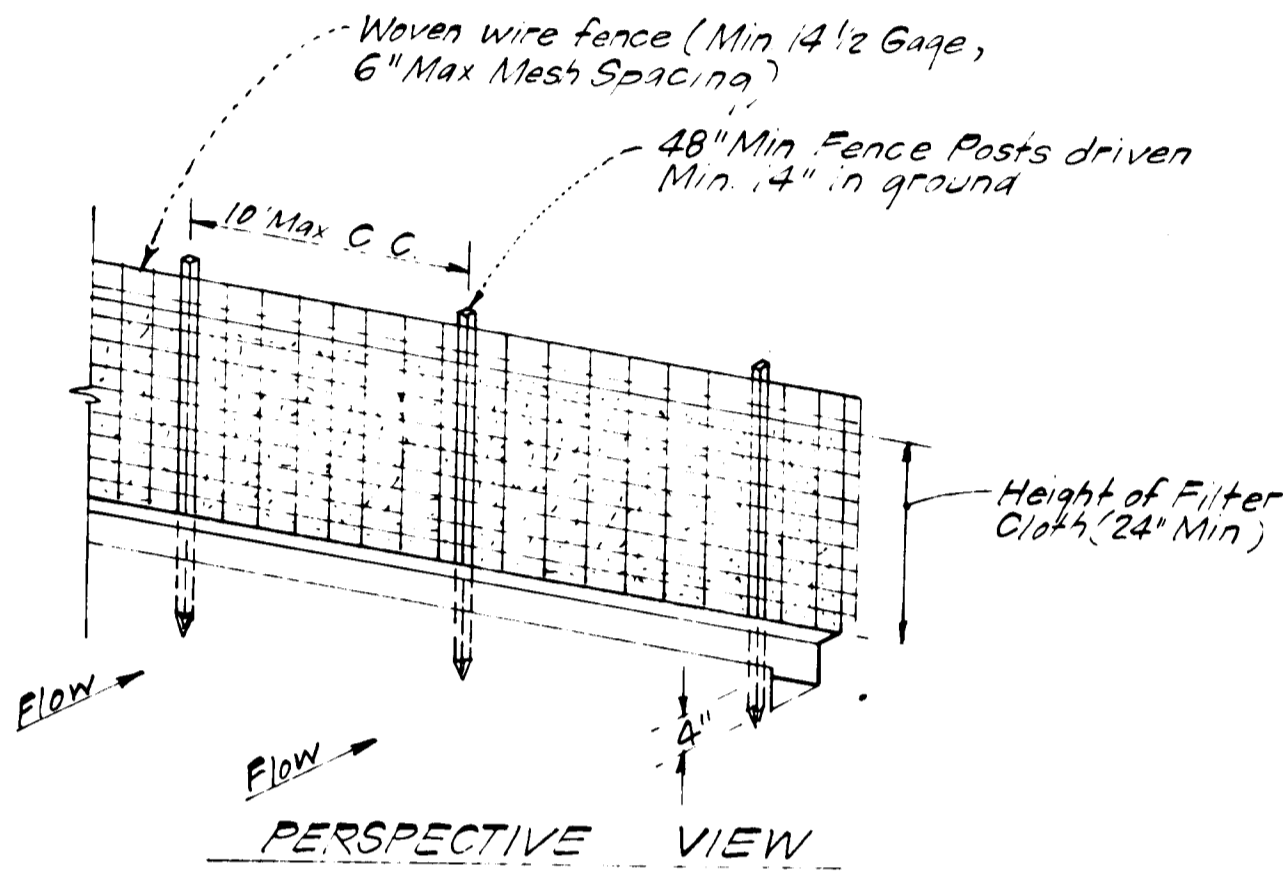
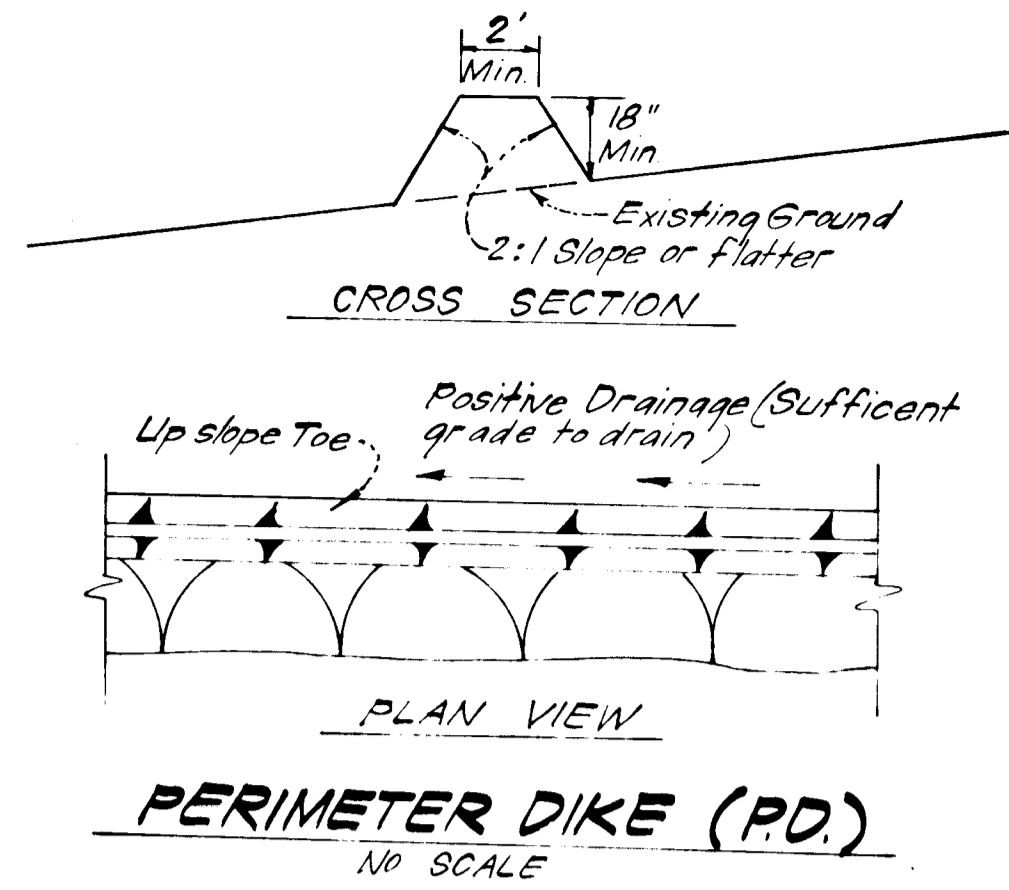
F-84-199

All bales shall be tied with non-weathering materials, i.e. wire, nylon.



Note:  
1. In lieu of the use of rebar's each straw bale may be fastened to ground with pegs (4 per bale and wire or nylon as shown above.)

**STRAW BALE DIKE DETAIL (S.B.D.)**  
NO SCALE

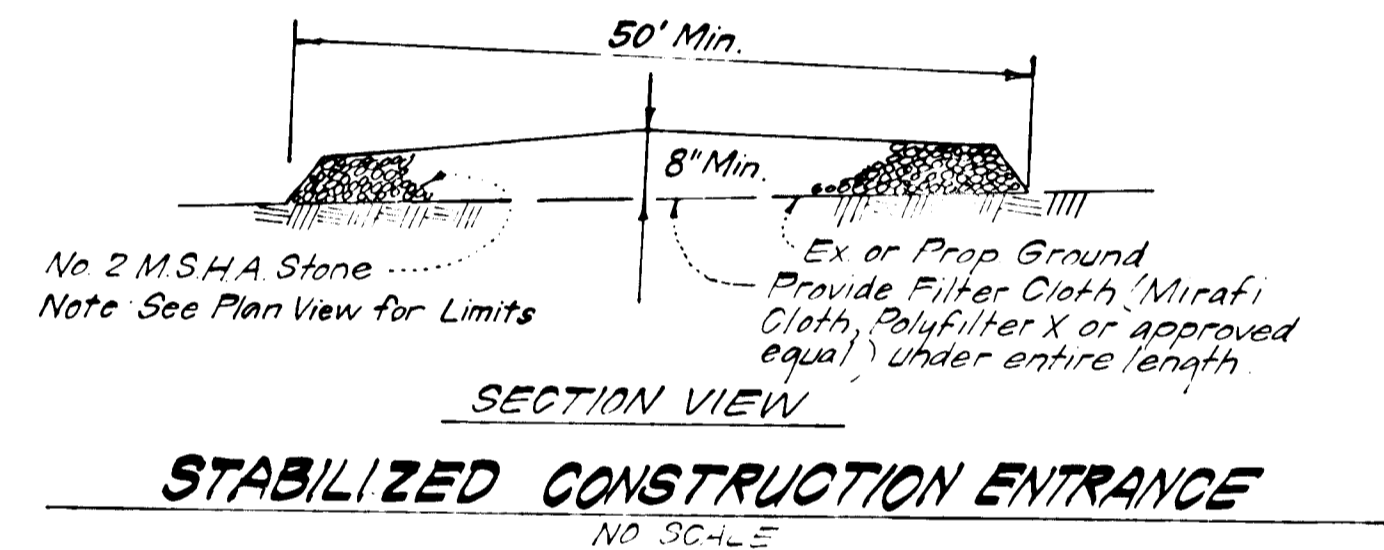


**CONSTRUCTION NOTES:**  
1. Woven wire fence to be fastened securely to fence posts with wire ties or staples.  
2. Filter cloth to be fastened securely to woven wire fence with wire ties spaced every 24\"/>

**PASTES:** Steel, either T or L type or 2\"/>

**SILT FENCE DETAIL (S.F.)**  
NO SCALE

*10/2/84*



**STABILIZED CONSTRUCTION ENTRANCE**  
NO SCALE

**GENERAL NOTES**

- Grading Permits shall be obtained prior to installation of Sediment Control & Grading.
- All Sediment and Erosion Control Measures will be installed and stabilized according to this plan prior to any other grading, clearing or disturbance of the existing surface of the site. See note #6 for stabilization except that the seed mixture will be annual rye applied at a rate of 1.4 lbs./1000 sf.
- Notify the Bureau of Inspections and Permits at least 24 hours before starting any work.
- All Sediment Control Practices to conform to the "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas" and shall be adjusted to meet actual field conditions.
- Stabilization of Disturbed ground to be done as soon after construction as possible.
- All disturbed areas to be stabilized in accordance with the following Specifications:  
A. Seed - certified 85% germination applied at the rate of 3 lbs./1000 sf. Mixture - 40% Kentucky Blue, 20% chewing Fescue, 20% Kentucky 31 and 20% annual rye.  
B. Fertilizer - 10-10-10 applied at a rate of 23 lbs./1000 sf. Ground Agricultural Lime or Dolomitic Lime applied at a rate of 90 lbs./1000 sf.  
C. Mulch - Weed free grain straw applied at a rate of 70-90 lbs./1000 sf. Mulch shall be secured to the ground by any approved method i.e.; asphalt tacks, chemical binder etc.  
D. All Sod used shall be Maryland State Certified.
- All structural Sediment Control Measures are to remain in place until permission for their removal has been obtained from the Bureau of Inspections and Permits.
- On Site Inspection and Maintenance of all Sediment Control Measures including clean out of Sediment Traps and Dikes, and proper establishment of all planned vegetative measures will be the responsibility of the developer or his representative on the site, on a continuing day to day basis.
- It will be the developer's responsibility to provide additional Sediment & Erosion Control Devices to protect stabilized areas during construction.
- The Contractor shall keep all public roads free of sediment deposits left from traffic leaving construction site.
- Approval of this plan is conditional upon the approval of Sediment Control Plan for the off-site waste or borrow area prior to the import of any borrow or export of waste to or from this site.
- All pipes to be blocked at the end of each day. See detail this sheet. NA.
- Total Amount of Straw Bales or Silt Fence shown: 52 L.F.
- SITE ANALYSIS:**  
A. Total Area: 10.595 Acres  
B. Area to be Roofed: 0.000 Acres  
C. Area to be Paved: 1.030 Acres  
D. Area to be Seeded: 1.409 Acres  
E. Area Undisturbed: 8.156 Acres.
- CONSTRUCTION SEQUENCE:**  
A. Install sediment & erosion control measures and cleanout ex. sediment basin.  
B. Clear and rough grade site.  
C. Construct storm drainage. Do not construct ungrouted rip rap or low flow channel at this time.  
D. Construct utilities.  
E. Fine grade and construct paving.  
F. Stabilize all other disturbed areas on site in accordance with standards & specifications.  
G. Flush out storm drain prior to conversion of sediment basin to SWM pond.  
H. Upon approval of the sediment control inspector, remove sediment & erosion control measures.  
I. Convert sediment basin to SWM Pond as follows:  
1. Regrade pond bottom as necessary.  
2. Remove riser and construct storm drainage I-8 to M-7 and Low Flow channels (See Plans F-84-153).  
3. Stabilize pond bottom and sides immediately.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

PLANNING DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR # 1059 \_\_\_\_\_ DATE \_\_\_\_\_

CHIEF BUREAU OF ENGINEERING \_\_\_\_\_ DATE \_\_\_\_\_

Reviewed for Howard S.C.U. Name \_\_\_\_\_ and meets Technical Requirements \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_  
U.S. Soil Conservation Service

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

Stephen L. Parks 10-22-84 Approved Date

**DEVELOPER'S/BUILDER'S CERTIFICATE**  
"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. 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 or their authorized agents, as are deemed necessary."  
Walter A. Kehoe Signature of Developer/Builder Date July 23, 1984  
Walter A. Kehoe

**ENGINEER'S CERTIFICATE**  
I hereby 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.  
G. Nelson Clark 5-24-84 Date  
G. Nelson Clark



APPROVED: Department of Public Works  
William E. Roper 10/26/84 Date  
Chief, Bureau of Engineering

APPROVED: Howard County Office of Planning & Zoning  
John W. Mueselmann 10-23-84 Date  
Chief, Division of Land Development & Zoning Administration

**CLARK • FINEFROCK & SACKETT**  
ENGINEERS • PLANNERS • SURVEYORS  
11317 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 (301) 593-3400

DESIGNED J.L.S.	<b>SEDIMENT &amp; EROSION CONTROL PLAN AND DRAINAGE AREA MAP</b>  <b>HUNT COUNTRY ESTATES</b> SECTION TWO 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: W.A. Kehoe Company One Knoll North Drive Columbia, Maryland 21045	SCALE As Shown
DRAWN V.L.B.		DRAWING 5 OF 5
CHECKED J.L.S.		JOB NO. 79-064
DATE May, 1984		FILE NO. 79-064-D

8/20/86

F-84-199