

COLUMBIA

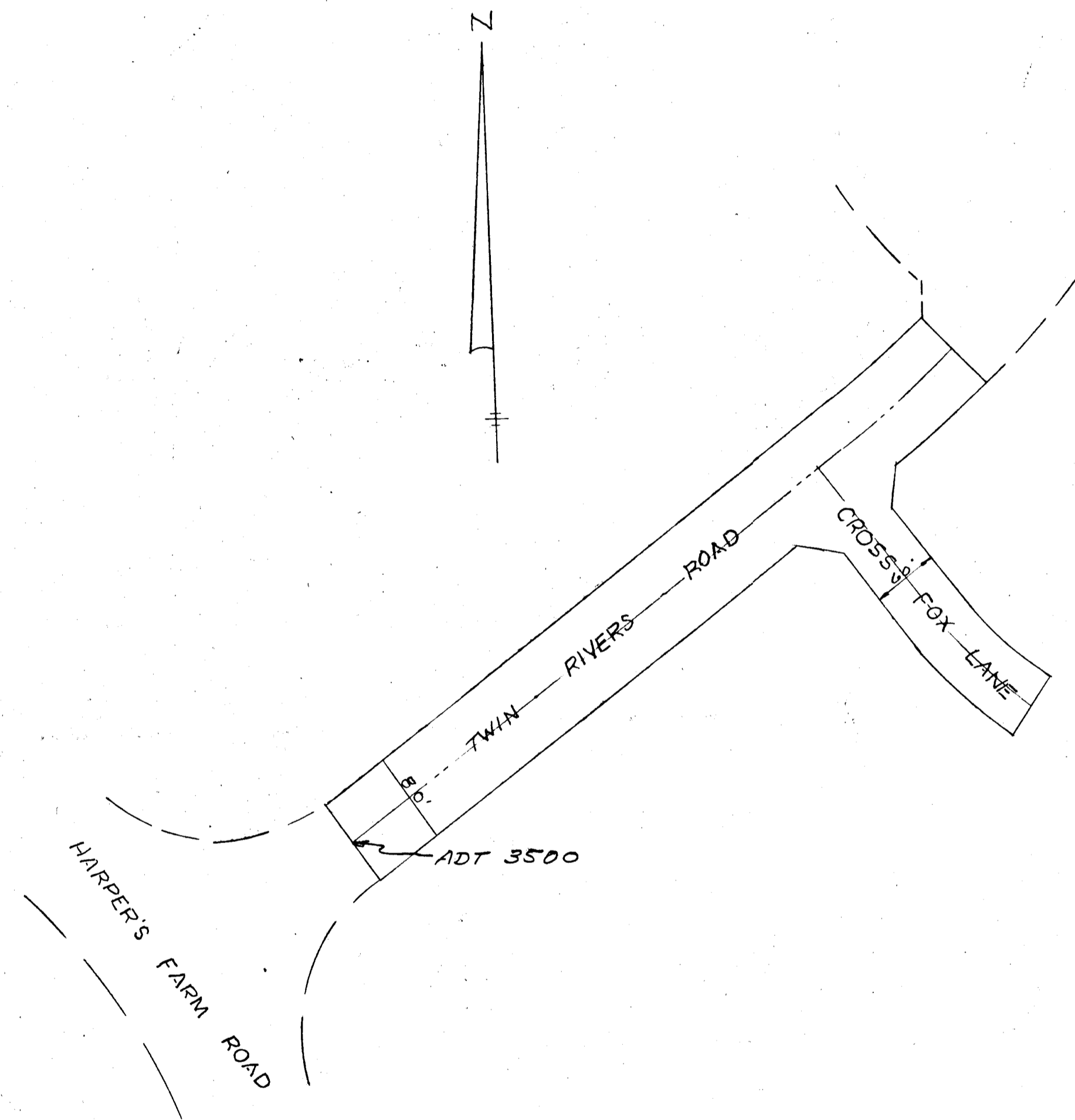
HOWARD COUNTY MARYLAND
CONSTRUCTION PLANS

VILLAGE OF WILDE LAKE

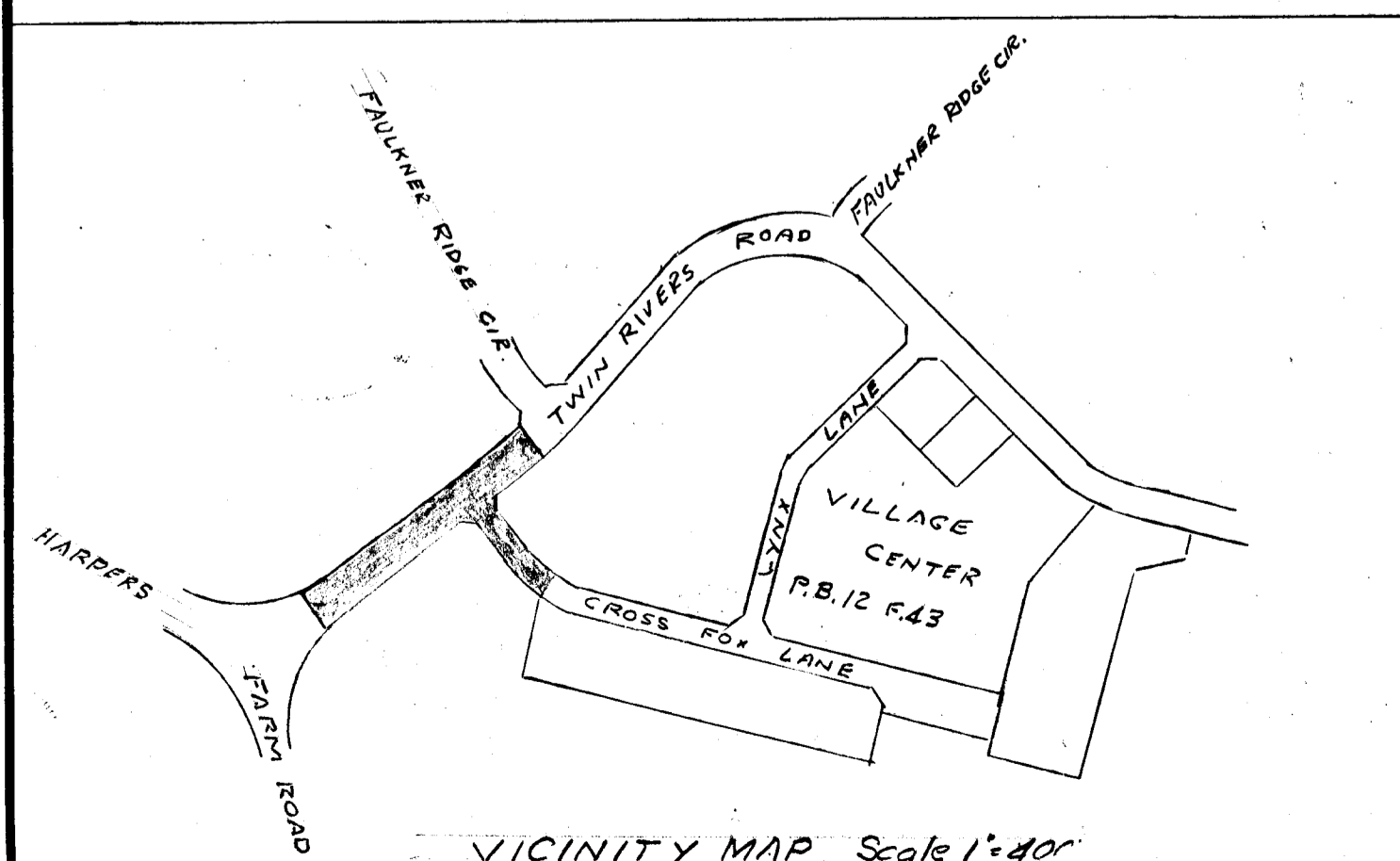
TWIN RIVERS RD. & CROSS FOX LANE

ELECTION DISTRICT 5

DATE: JUNE, 1967
OWNER & DEVELOPER
HOWARD RESEARCH AND DEVELOPMENT CORP
VILLAGE OF CROSS KEYS
BALTIMORE, MARYLAND



- NOTES:
1. TWIN RIVERS ROAD AND CROSS FOX LANE ARE DESIGNED FOR PERMITTED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS STANDARDS.
 2. ALL DETAILS ARE FROM "ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS" ISSUED OR APPROVED BY THE COUNTY COMMISSIONERS OF HOWARD COUNTY ROAD DEPARTMENT.



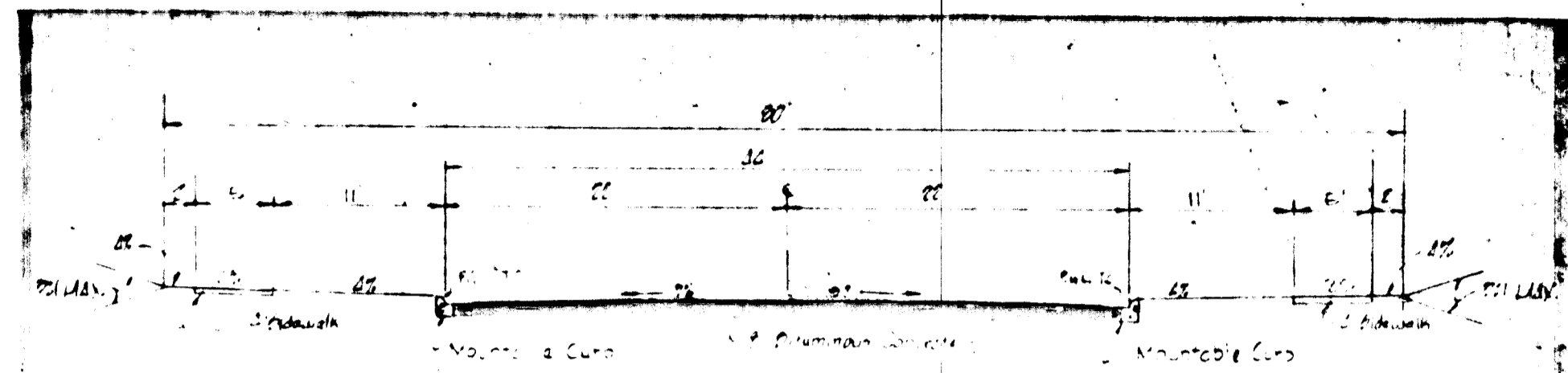
APPROVED BY

HOWARD COUNTY PLANNING COMMISSION *J. H. Clawson* 8-23-67
SENIOR ENGINEER DATE

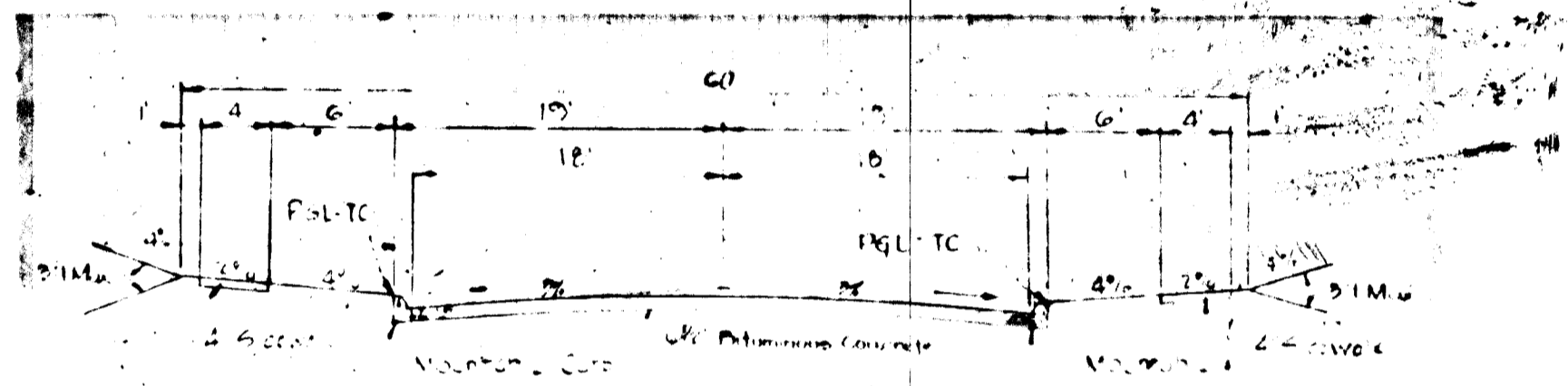
HOWARD COUNTY ROADS DEPT *Francis R. McLeod* 8-23-67
ROAD Supt. DATE

HOWARD COUNTY METROPOLITAN COMM *W. O. Albert* 8-22-67
CHIEF ENGINEER DATE

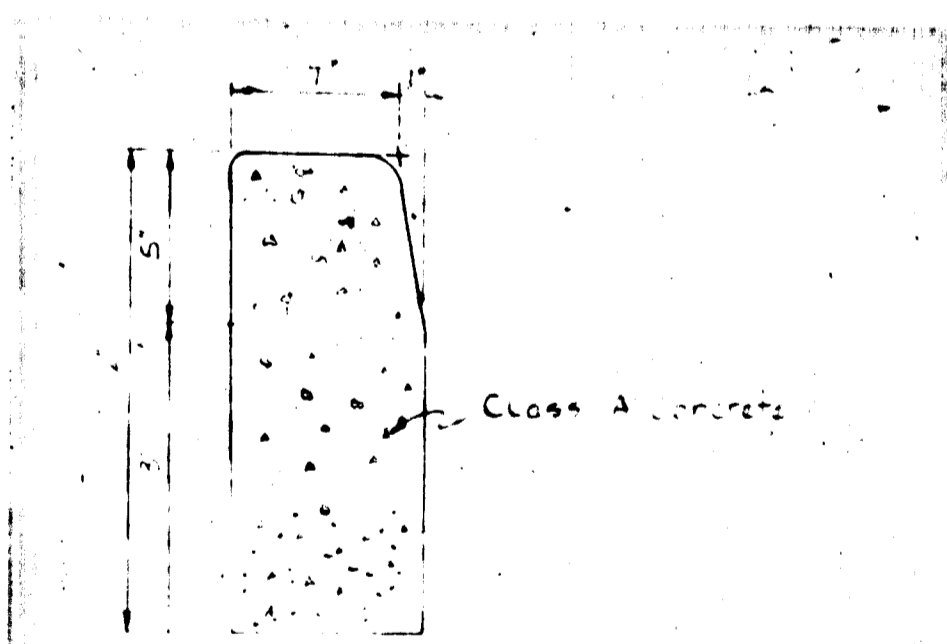
Rev Date	Rev No	Revision Description
COLUMBIA MARYLAND		
<small>OWNER AND DEVELOPER</small> HOWARD RESEARCH AND DEVELOPMENT CORP. <small>THE VILLAGE OF CROSS KEYS - BALTIMORE, MARYLAND 21210</small>		
PROJECT AREA VILLAGE OF WILDE LAKE		
PROJECT TITLE CONSTRUCTION PLANS TWIN RIVERS RD. & CROSS FOX LA		
Des By	Scale	Dwg No
Drn By <i>BTR</i>	Date <i>JUNE, 1967</i>	C.C.F. No
Chk By	Approved	



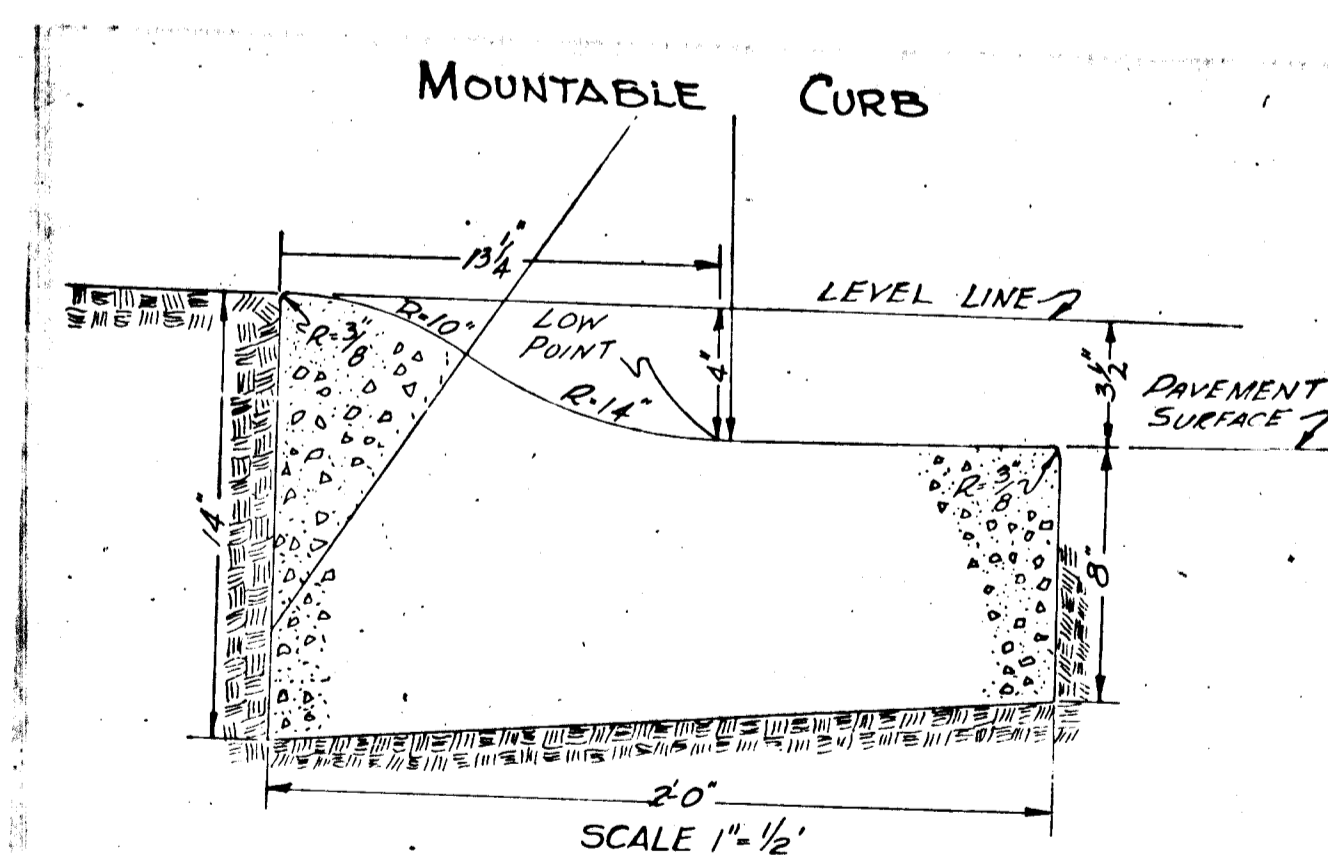
AA ROAD SECTION



Scale 1"=10'
NEIGHBORHOOD STREET
AND
COLLECTOR
DETAIL 'F'

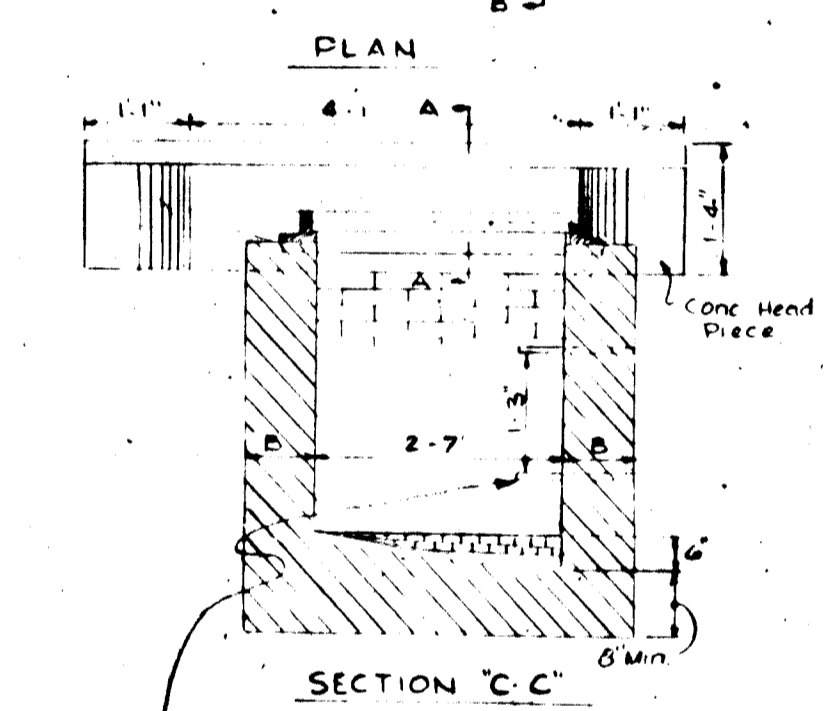
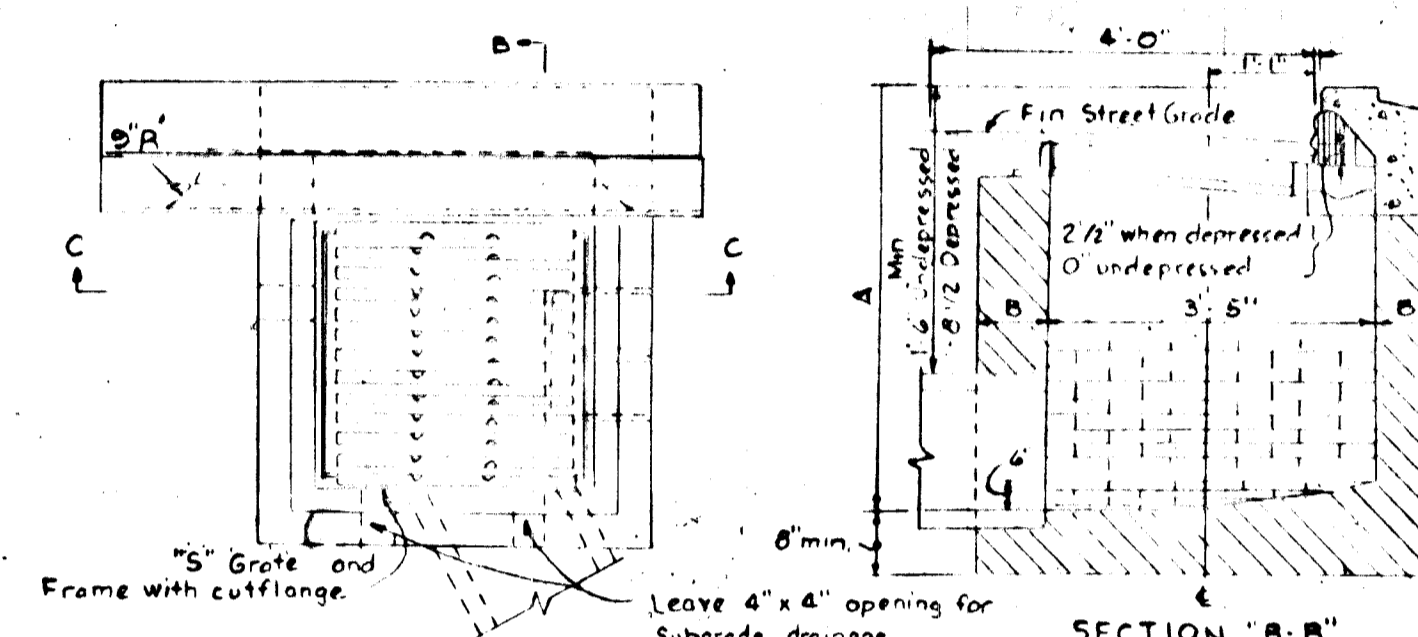
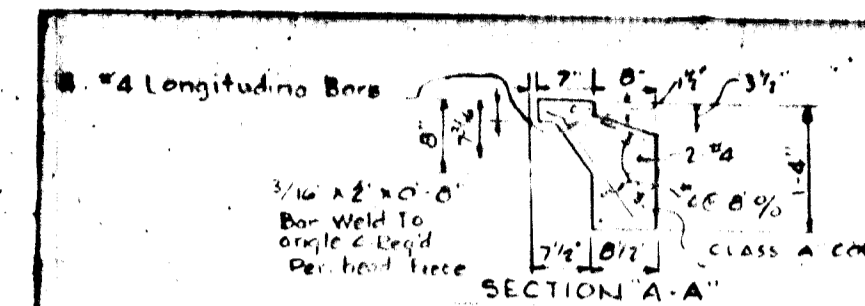


No Scale VERTICAL CURB



MOUNTABLE CURB

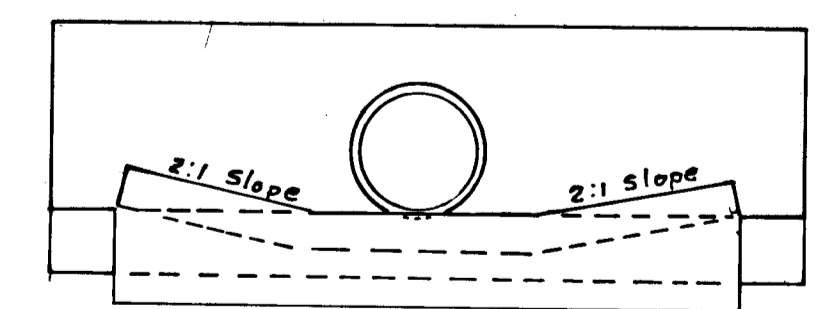
SCALE 1"=1/2'



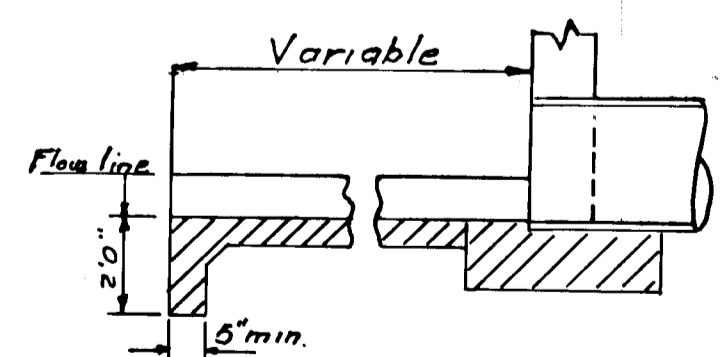
DETAIL
MODIFIED
'S' COMBINATION INLET
(SINGLE GRATE)
NO SCALE

- Notes:
- 1) The Walk and Invert shall be brick or plain Class A Concrete.
 - 2) B-6 Where Air 2' or less.
 - 3) Top 4" of walls shall be brick masonry. All masonry shall be used to brace the grate to exist grade if required.
 - 4) Where brick is used, Invert shall be brick laid on edge.

- Notes:
1. Invert shall be brick or plain Class A Concrete.
 2. Top 4" of walls shall be brick masonry.



TOE WALL DETAIL
FOR
5" CONCRETE GUTTER
NO SCALE



Note: For any details not shown refer to the Maryland State Roads Commission Book of Standards Highways and incidental structures Plate G.T.A., Page 46-A

APPROVED
PLANNING COMMISSION
DATE 8/23/67
J. H. C.

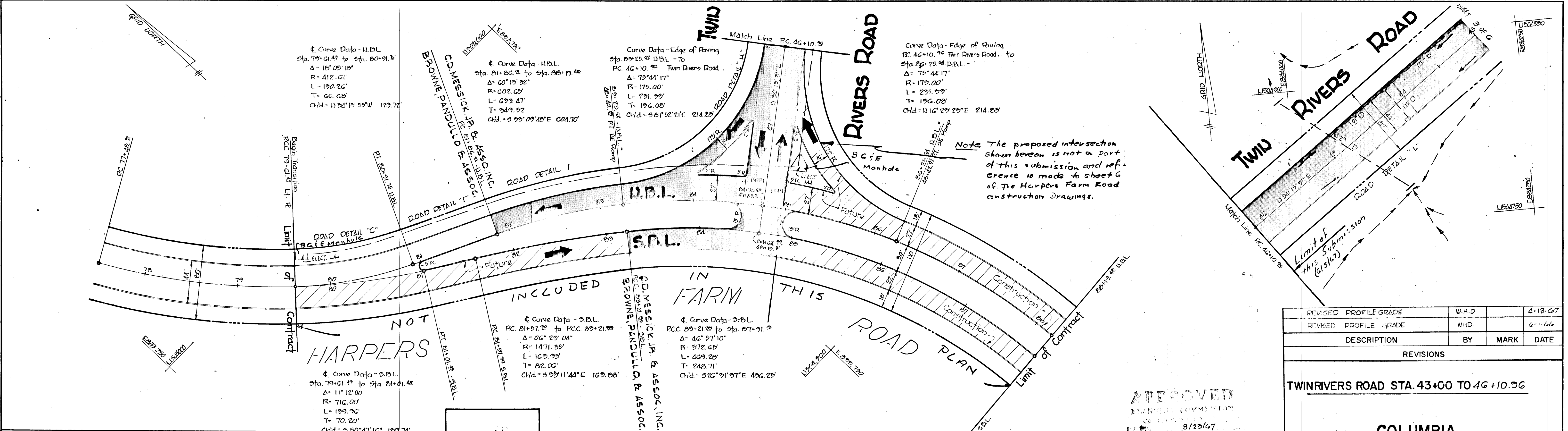
5th ELECTION DISTRICT
HOWARD COUNTY, M.D.

Rev Date	Rev No	Revision	Description
COLUMBIA MARYLAND			
THE ROUSE COMPANY		THE VILLAGE OF CROSS KEYS, BALTIMORE, MARYLAND 21210	
PROJECT AREA VILLAGE OF WILDE LAKE			
PROJECT TITLE TWIN RIVERS ROAD AND CROSS FOX LANE			
Des By	Scale As Noted	Dwg No 1 of 6	
Drn By BTR	Date	C.C.F. No	
Chk By	Approved		

PLAN
 SURVEYED BY: _____ DATE: _____
 NOTE BOOK (ALGEBRA) CHECKED BY: _____ ST. OF WAY CHECKED BY: _____
 NO. _____

PROFILE
 SURVEYED BY: _____ DATE: _____
 NOTE BOOK (GRADES) CHECKED BY: _____ B.M. NOTED BY: _____
 NO. _____

C.D. MESSICK JR. & ASSOCIATES, INC.
 CONSULTING ENGINEERS & LAND SURVEYORS
 21 WEST STREET ANNAPOLIS, MARYLAND
C.D. Messick Jr.
 C.D. MESSICK JR. P.E. NO. 3390 DATE: _____

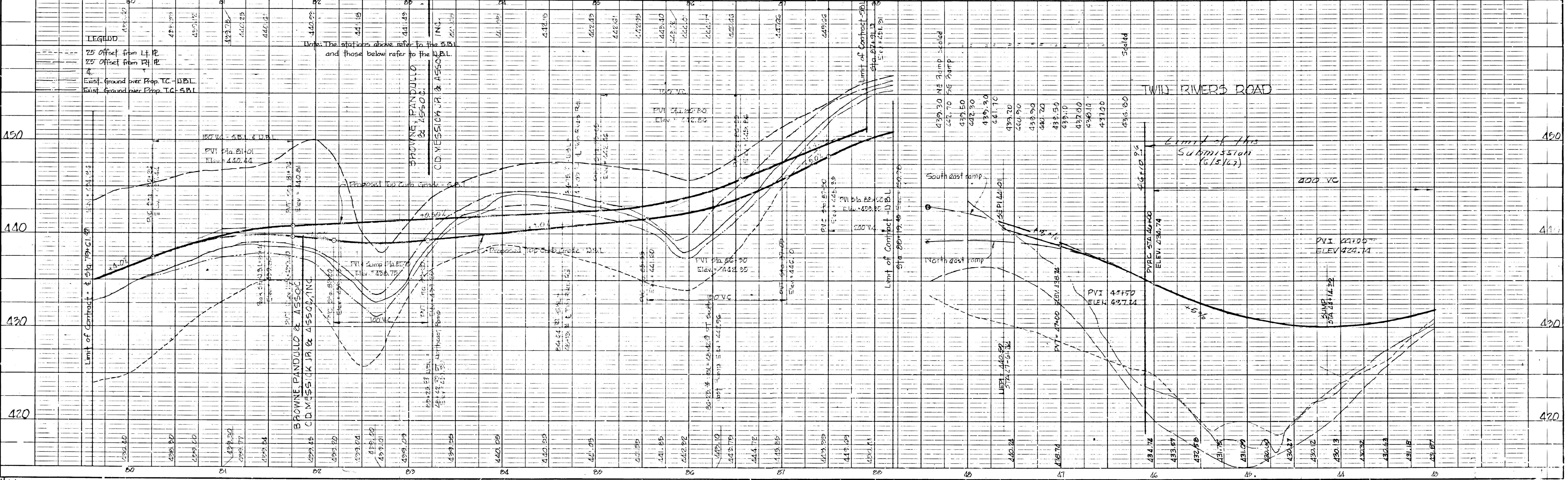


REVISIONS	DESCRIPTION	BY	MARK	DATE
1	REVISED PROFILE GRADE	W.H.D.		4-18-67
2	REVISED PROFILE GRADE	W.H.D.		6-1-66

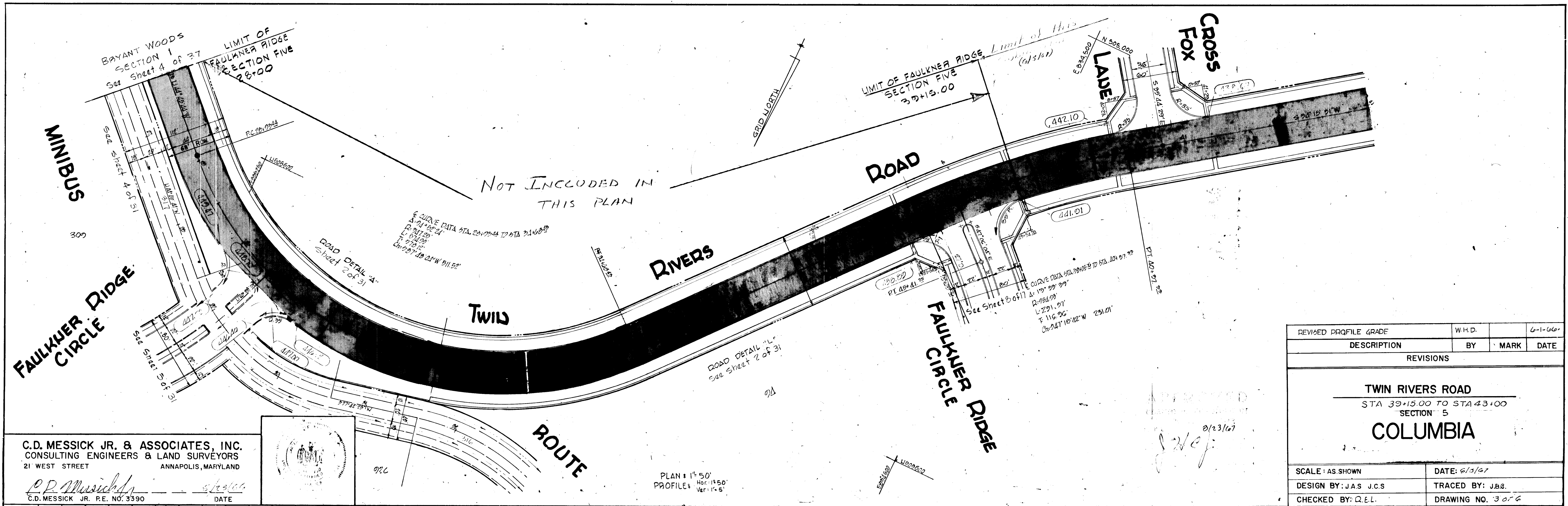
TWINRIVERS ROAD STA. 43+00 TO 46+10.96

COLUMBIA
ROAD PLAN

SCALE: AS SHOWN DATE: 6/5/67
 DESIGNED BY: J.A.S. TRACED BY: A.D.S.
 CHECKED BY: R.E.L. DRAWING NO.: 2 of 6



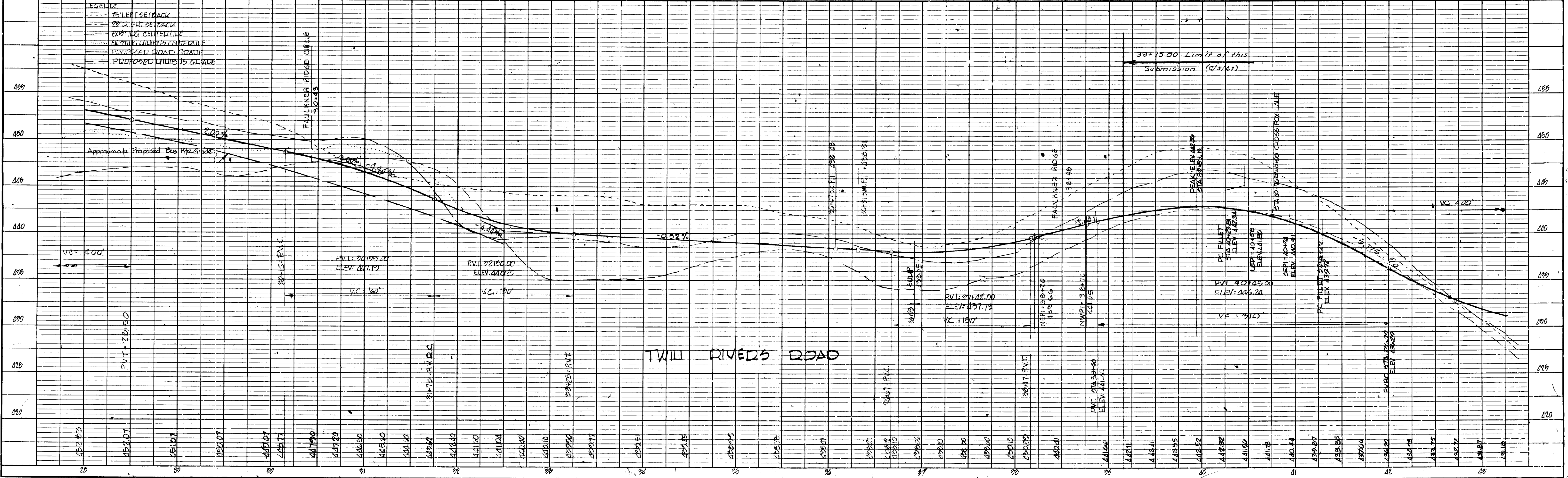
E-2-1-5
 Sheet 5
 Cross Section
 N.W. Jones & Sons



C.D. MESSICK JR. & ASSOCIATES, INC.
 CONSULTING ENGINEERS & LAND SURVEYORS
 21 WEST STREET ANNAPOLIS, MARYLAND
 C.D. MESSICK JR. P.E. NO. 3390 DATE 6/23/67

PLAN: 1" = 50'
 PROFILE: 1" = 50'

REVISED PROFILE GRADE	W.H.D.	DATE	
		6-1-66	
DESCRIPTION	BY	MARK	DATE
REVISIONS			
TWIN RIVERS ROAD STA 39+15.00 TO STA 43+00 SECTION 5 COLUMBIA			
SCALE: AS SHOWN	DATE: 6/3/67		
DESIGN BY: JAS. J.C.S.	TRACED BY: J.B.B.		
CHECKED BY: Q.E.L.	DRAWING NO. 3076		



PROFILE
 SURVEYED
 PLOTTED
 CHECKED
 BY: M.S. NOTED
 STRUCTURE NOTATIONS CHKO

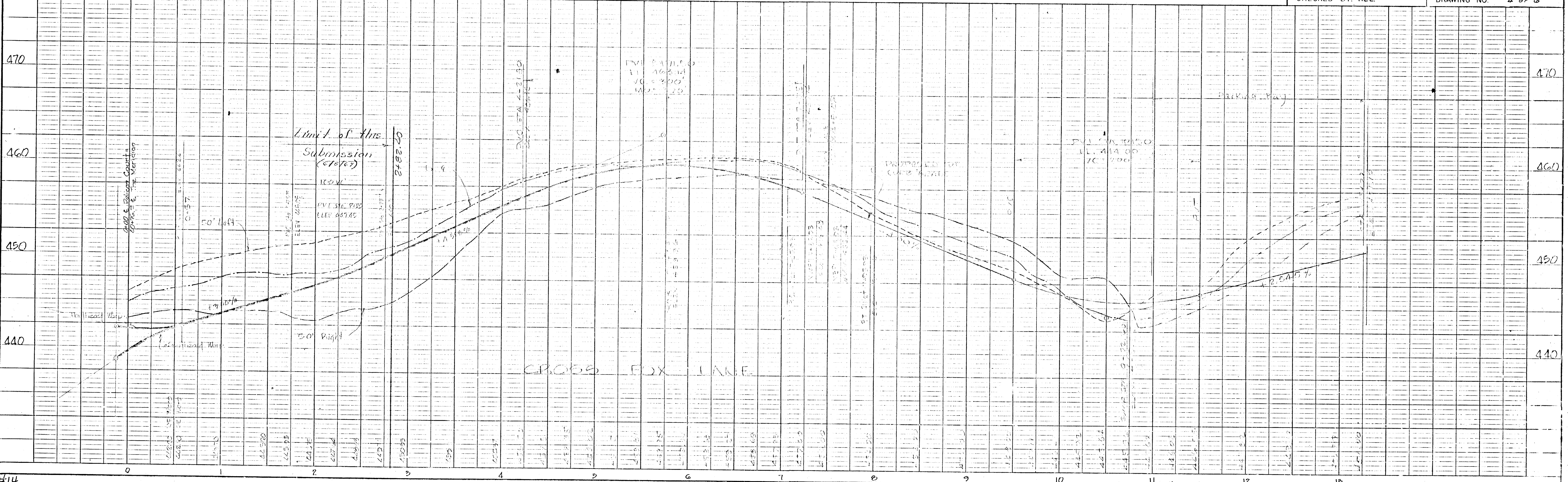
PLAN SURVEYED BY DATE
 PLOTTED BY
 NOTE BOOK NO. CHECKED BY
 NO. OF WAY CHECKED

TWU RIVERS ROAD
 PT. 401.97.22

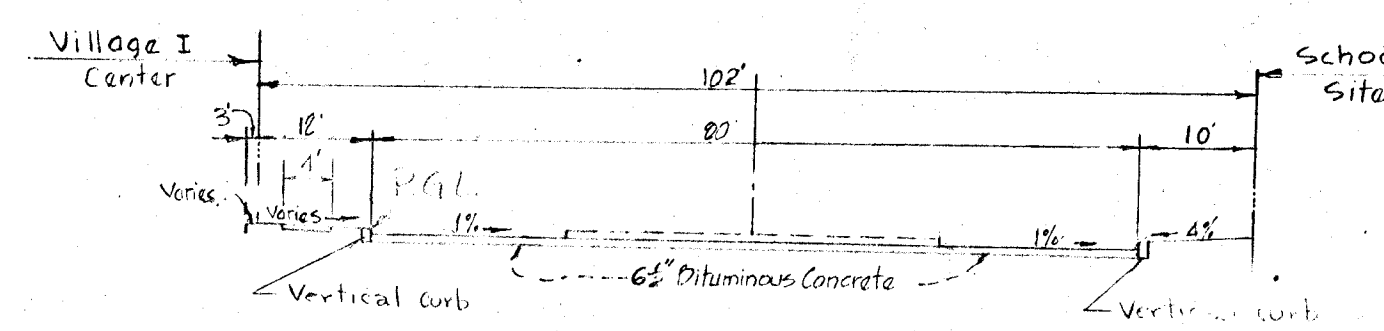
APPROVED
 PLANNING COMMISSION
 OF HOWARD COUNTY
 DATE 8/23/67

C.D. MESSICK JR. & ASSOCIATES, INC.
 CONSULTING ENGINEERS & LAND SURVEYORS
 21 WEST STREET
 ANNAPOLIS, MARYLAND
 C.D. MESSICK JR. P.E. NO. 3390
 DATE 5/23/66

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



CURVE DATA STA. 1+91.80 TO STA. 3+24.22
 $\Delta = 40^\circ 34'11''$
 $R = 300.00'$
 $L = 212.42'$
 $T = 110.68'$
 $Ch = 656' 01.35E 208.00'$



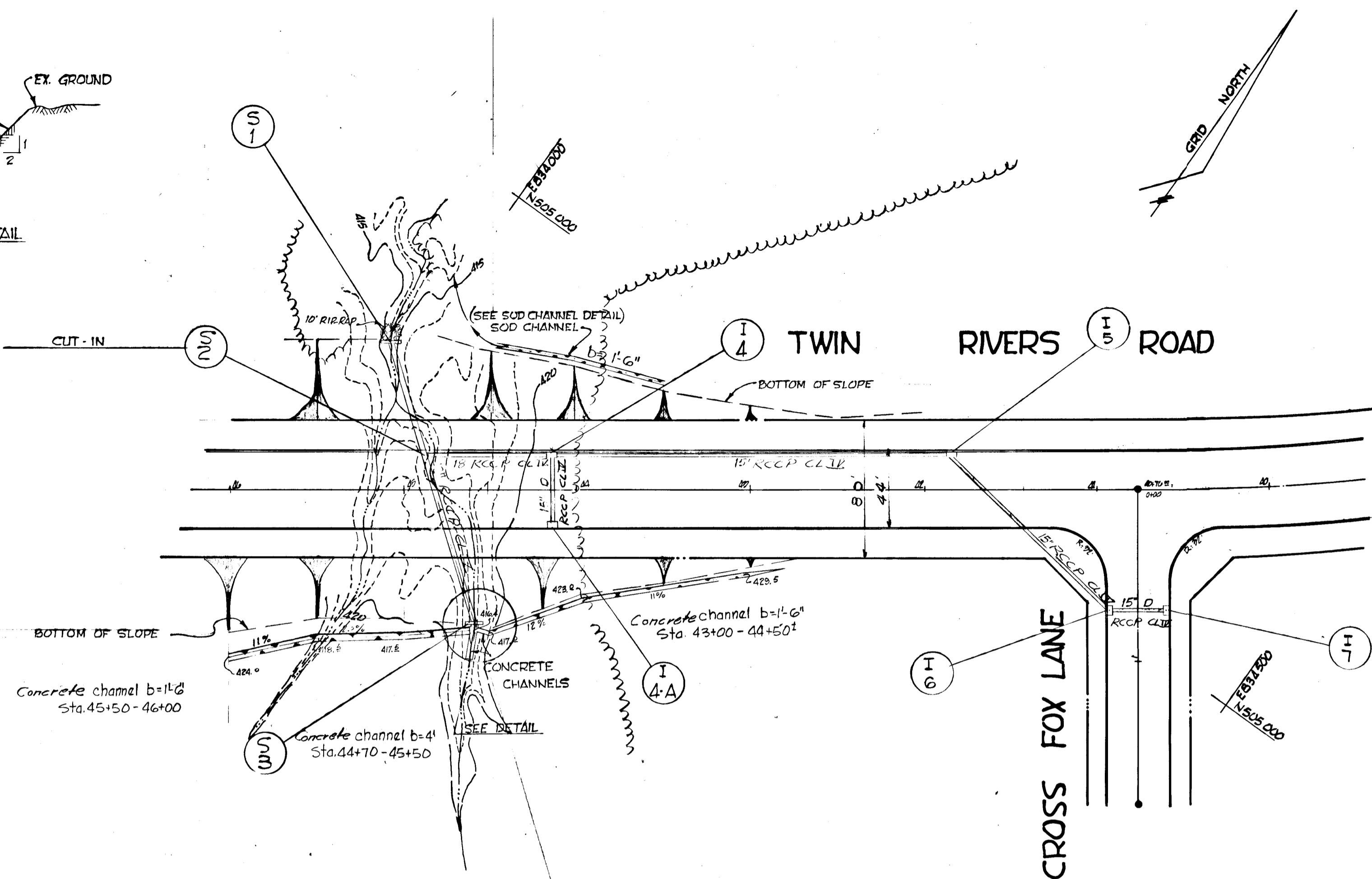
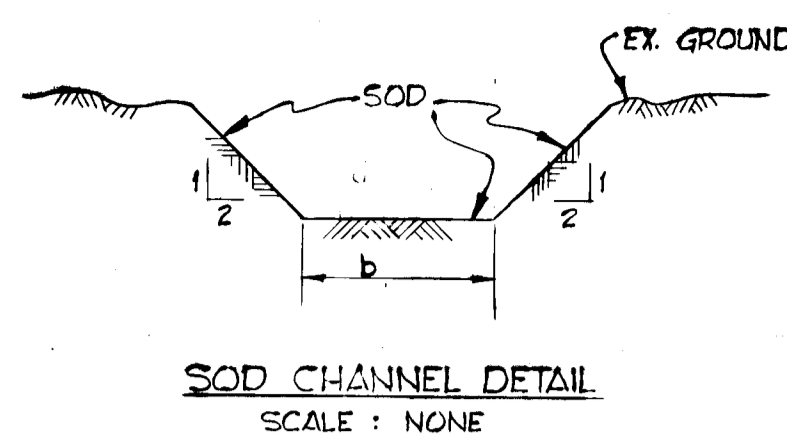
Plan: 1" = 50'
 Scale: Profile: Hor. 1" = 50'
 Vert. 1" = 5'

NOTE: For Grades in this area see site plan by Cope, Linder and Walmsley.

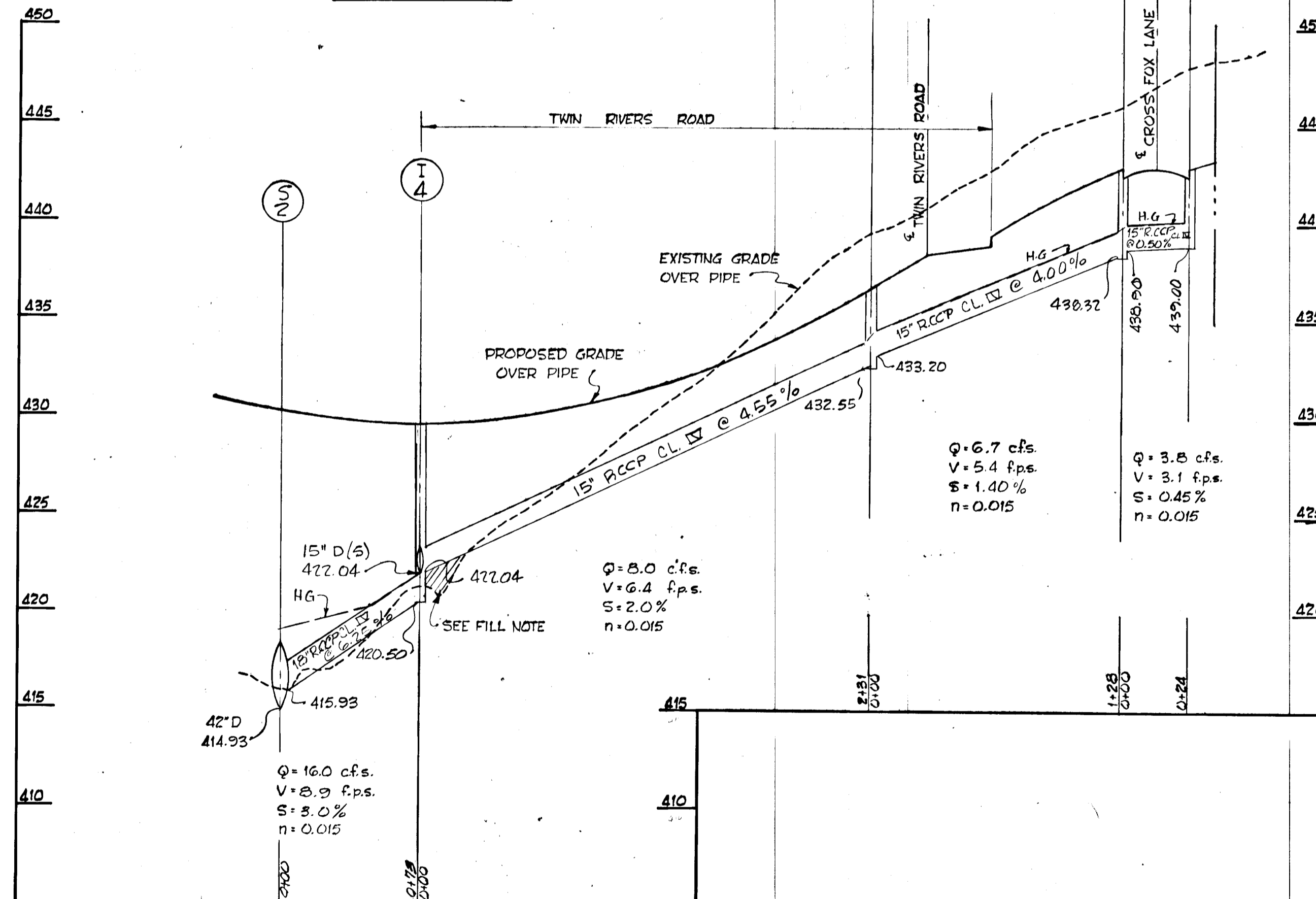
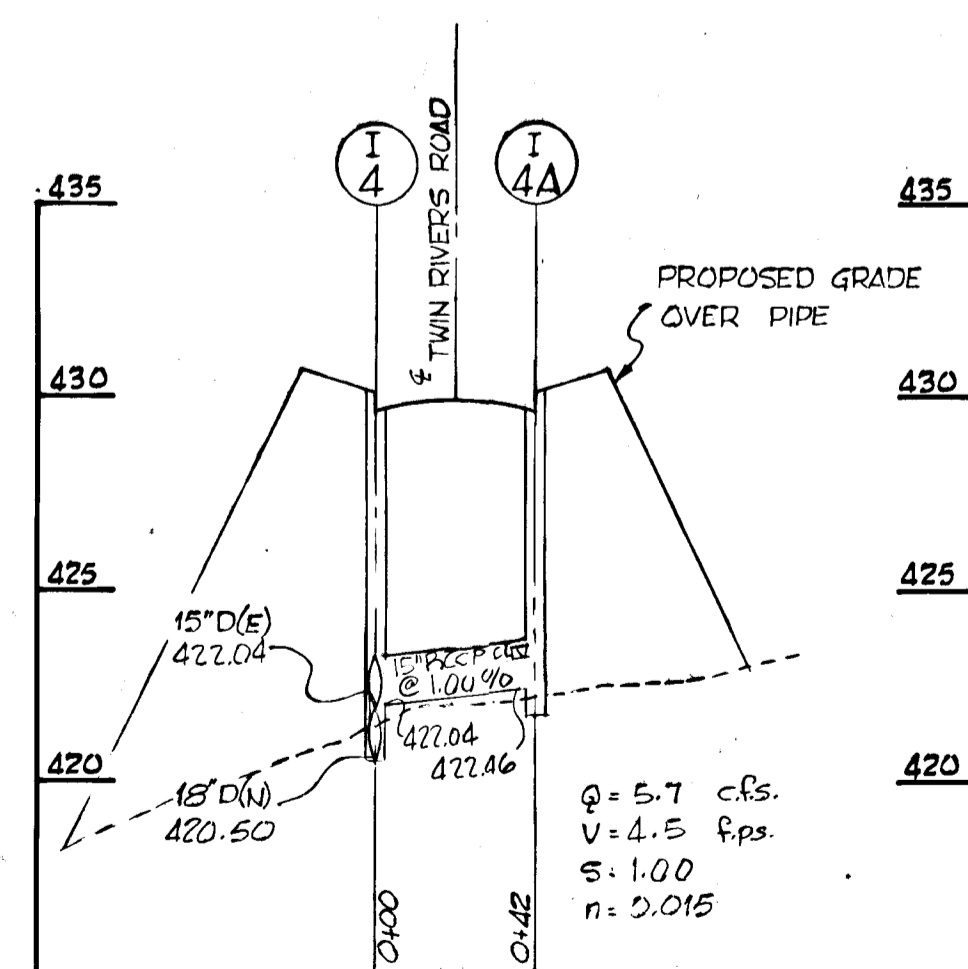
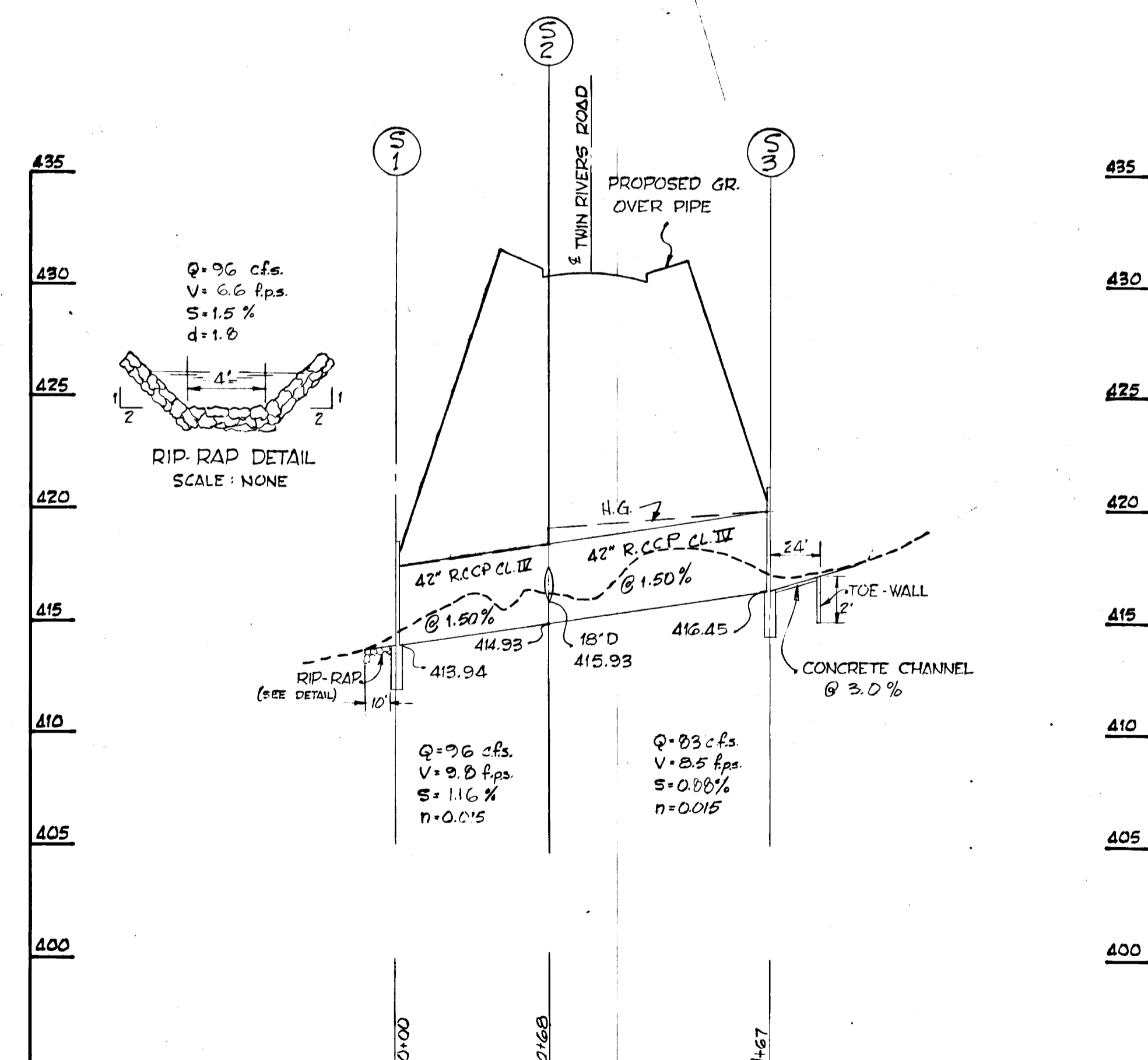
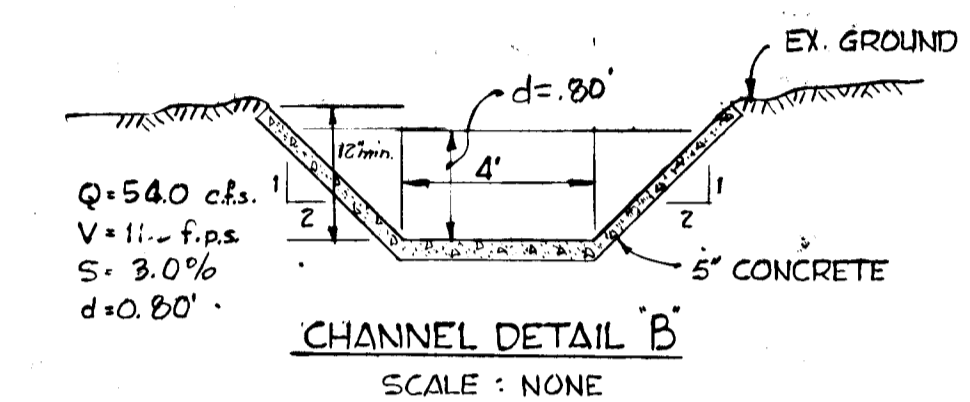
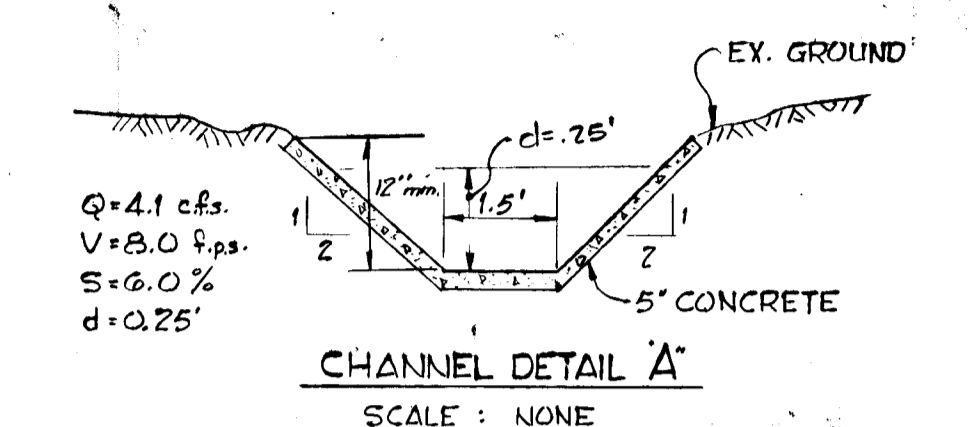
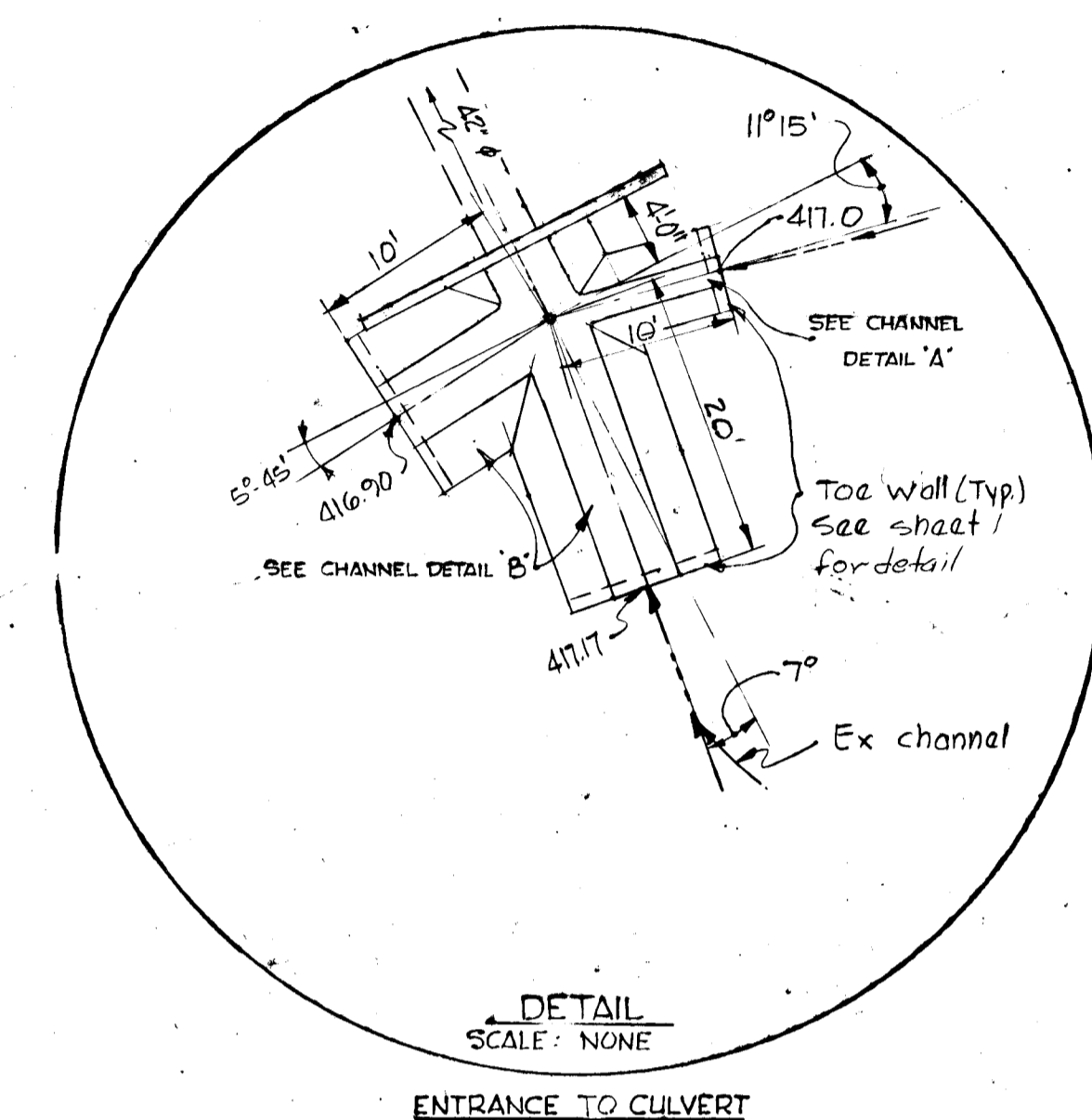
DESCRIPTION	BY	MARK	DATE
Revised Right of way width	CWC		2/28/67
ADD LINK LANE 1/4" WIDTH	N.J.L.		2/6/67
REVISIED PROFILE GRADE	N.J.S.		12-1-66
Revised Pump Location	JAS		7-25-66
Added Pumping eq. to road, changed curb eq. p.	JAS		7-1-66
Revised Sheet number	ARS		6-20-66
REVISIED PROFILE GRADE	ARS		6-1-66

REVISIONS
 STA 0+00 TO STA 2+82.40
 CROSS FOX LANE
 SECTION 4
 VILLAGE CENTER
 COLUMBIA
 ROAD PLAN

SCALE: AS SHOWN	DATE: 6/5/67
DESIGN BY: J.A.S. J.C.S.	TRACED BY: A.R.S. J.W.H.D.
CHECKED BY: REL.	DRAWING NO.: 4 of 6



STORM DRAIN STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	T.C. ELV.	INV. IN	INV. OUT	REMARKS
S-1	TYPE 'C' HEADWALL	84' RT. STA 45+07		413.94		HO. CO. DETAILS PG. 107
S-3	TYPE 'C' HEADWALL	76' LT. STA 44+59		416.40		HO. CO. DETAILS PG. 107
I-4	5" COMB. INLET SINGLE GRATE	21' RT. STA 44+14.23	430.10	427.04	420.49	See Sheet 1 of 6
I-4A	5" COMB. INLET SINGLE GRATE	21' LT. STA 44+14.23	430.10		427.40	"
I-5	5" COMB. INLET SINGLE GRATE	21' RT. STA 41+84	437.20	433.20	432.55	"
I-6	5" COMB. INLET SINGLE GRATE	17' RT. STA 0+70	442.80	438.90	438.32	"
I-7	5" COMB. INLET SINGLE GRATE-DEPR	17' LT. STA 0+70	442.80		438.80	See Sheet 1 of 6
S-2	CUT-IN	21' RT. STA 44+88		415.93	414.93	

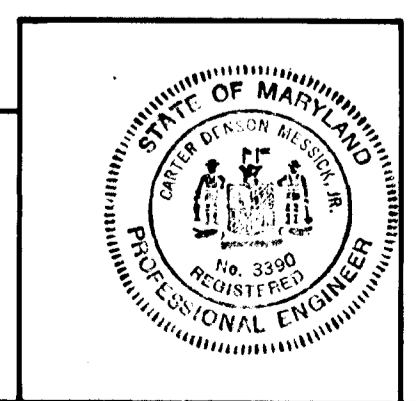


FILL NOTE:
WHERE PIPE IS SHOWN IN FILL AREAS THE FILL SUITABLE FOR NORMAL EMBANKMENT SHALL FIRST BE PLACED IN MAXIMUM 8' LIFTS AND THOROUGHLY COMPACTED TO A MINIMUM 90% DENSITY (A.A.S.H.O. T-190) TO A MINIMUM OF 2' ABOVE THE PIPE. ANORMAL TRENCH SHALL THEN BE EXCAVATED FOR PLACEMENT OF THE PIPE.

DESCRIPTION	BY	MARK	DATE
REVISIONS			
VILLAGE OF WILDE LAKE			
TWIN RIVERS ROAD			
COLUMBIA			
STORM DRAIN			
PLAN SCALE: 1"=50'	VERT. SCALE: 1"=5.0'	DATE: 6/5/67	
DESIGNED BY: J.A.S.	TRACED BY: WHD		
CHECKED BY: E.L.L.	DRAWING NO.: 5 OF 6		

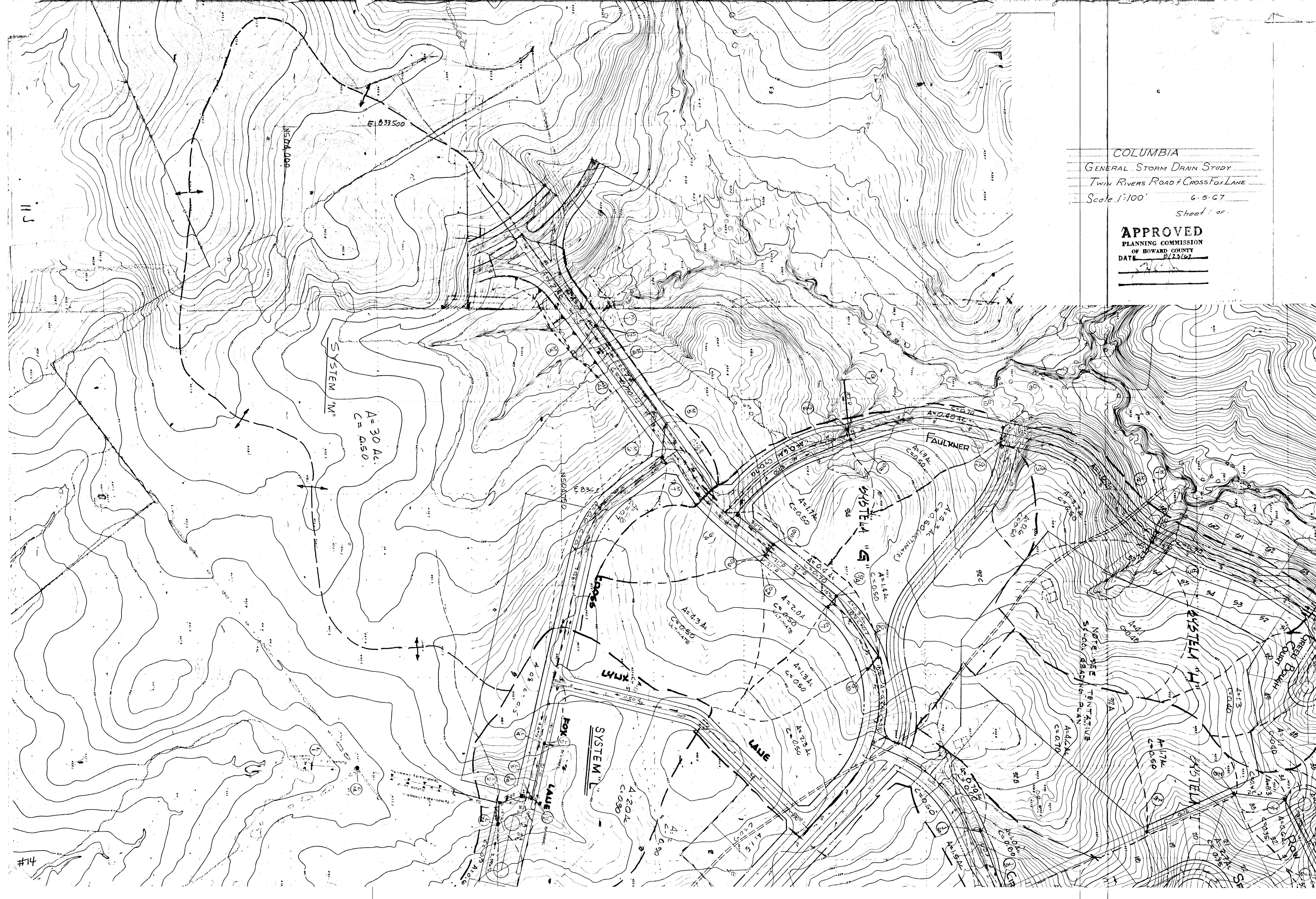
C.D. MESSICK, JR. & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
21 WEST STREET ANNAPOLIS, MARYLAND

C.D. Messick, Jr.
C.D. MESSICK JR. P.E. NO. 3390



COLUMBIA
GENERAL STORM DRAIN STUDY
TWIN RIVERS ROAD & CROSS FOX LANE
Scale 1"=100' 6-5-67
Sheet 1 of 1

APPROVED
PLANNING COMMISSION
OF HOWARD COUNTY
DATE 8/13/67



#13

#14

SYSTEM "M"
A = 30 AC.
C = 0.50

SYSTEM "L"
A = 20 AC.
C = 0.90

SYSTEM "G"
A = 1.4 AC.
C = 0.50

SYSTEM "H"
A = 1.3 AC.
C = 0.50

NOTE: SEE TENTATIVE
SCHOOL BUILDING PLAN

ISOLATED

FAULKNER

EGGS

LAUE

FOX

LAUE

FREEB

BOUGH

OUT

PLAN

PLAN

PLAN

PLAN

PLAN

PLAN