

NOTES:
 ▲ Denotes Ground Water Table.
 N- Indicates the number of blows required to drive a 1 1/2" I.D., 2" O.D. Split Spoon Sampler 6" by means of a 140# weight falling 50".

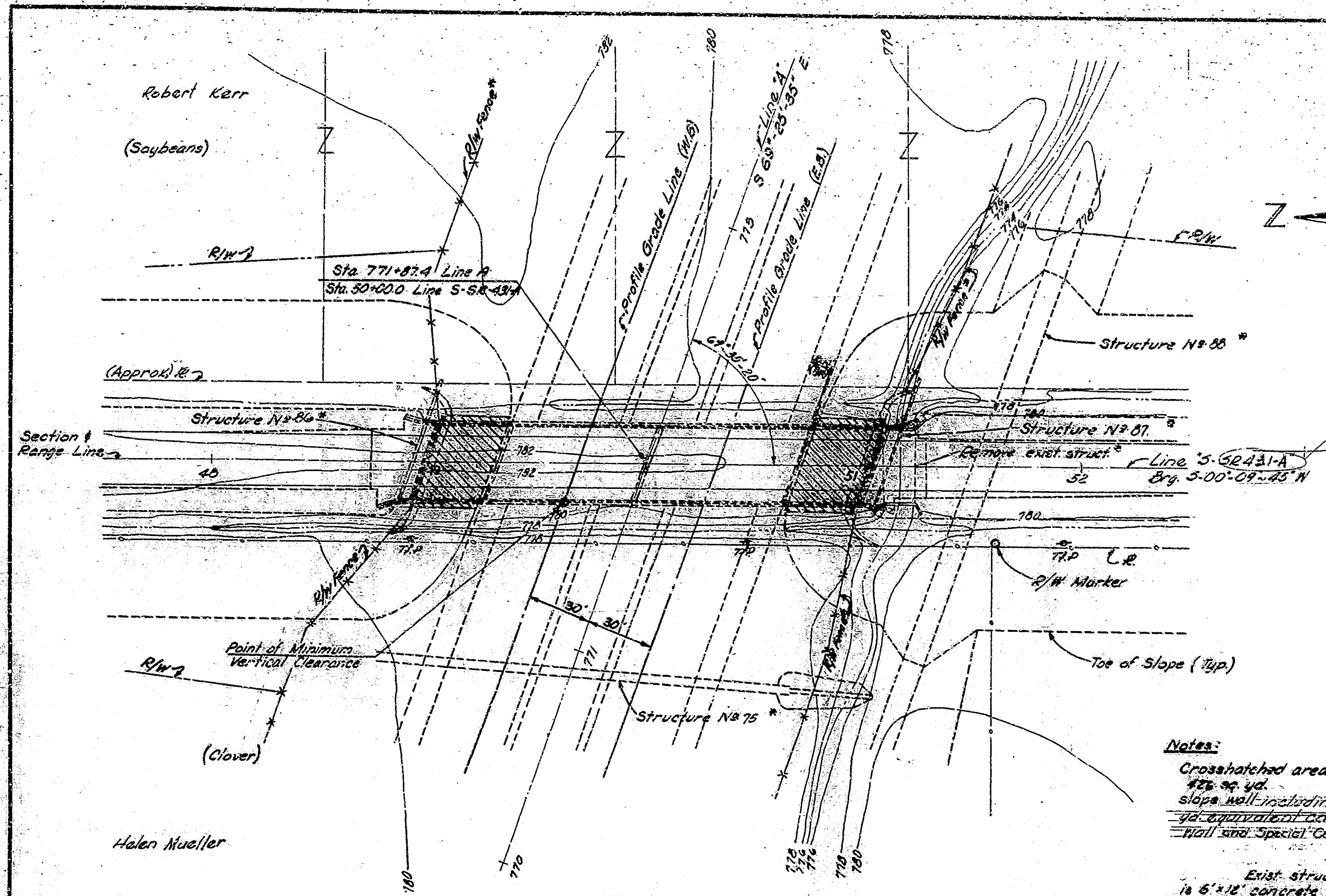
BORING NO.	7B-1		7B-2		7B-3	
STATION	49+29		50+09		50+60	
OFFSET	16' RT.		16' LT.		16' RT.	
GROUND ELEV.	781.2		781.3		781.1	
785	SAMPLE NO. ELEV.	N	DESCRIPTION	SAMPLE NO. ELEV.	N	DESCRIPTION
780	782.2	1	Gravelly clay	782.2	1	Gravelly clay
	782.1	2	Gravelly clay	782.1	2	Gravelly clay
	782.0	3	Brown and gray sandy clay with fine gravel and nodules; moist - medium stiff	782.0	3	Brown and gray sandy clay with fine gravel and nodules; moist - medium stiff
775	781.9	4	Brown and gray sandy clay with some fine gravel; moist - stiff	781.9	4	Brown and gray sandy clay with some fine gravel; moist - stiff
	781.8	5	Brown and gray sandy clay with fine gravel; moist - stiff	781.8	5	Brown and gray sandy clay with fine gravel; moist - stiff
770	781.7	6	Brown and gray sandy clay with fine gravel; moist - stiff	781.7	6	Brown and gray sandy clay with fine gravel; moist - stiff
	781.6	7	Gray sandy clay with fine gravel; moist - stiff to very stiff	781.6	7	Gray sandy clay with fine gravel; moist - stiff to very stiff
765	781.5	8	Gray sandy clay with fine gravel; moist - stiff	781.5	8	Gray sandy clay with fine gravel; moist - stiff
	781.4	9	Gray sandy clay with fine gravel; moist - stiff	781.4	9	Gray sandy clay with fine gravel; moist - stiff
760	781.3	10	Gray sandy clay with fine gravel; moist - stiff	781.3	10	Gray sandy clay with fine gravel; moist - stiff
755	781.2	11	Gray sandy clay with fine gravel; moist - stiff	781.2	11	Gray sandy clay with fine gravel; moist - stiff
750	781.1	12	Gray sandy clay with fine gravel; moist - stiff	781.1	12	Gray sandy clay with fine gravel; moist - stiff
745	781.0	13	Gray sandy clay with fine gravel; moist - stiff	781.0	13	Gray sandy clay with fine gravel; moist - stiff
740	780.9	14	Gray sandy clay with fine gravel; moist - stiff	780.9	14	Gray sandy clay with fine gravel; moist - stiff
735	780.8	15	Gray sandy clay with fine gravel; moist - stiff	780.8	15	Gray sandy clay with fine gravel; moist - stiff
730	780.7	16	Gray sandy clay with fine gravel; moist - stiff	780.7	16	Gray sandy clay with fine gravel; moist - stiff
725	780.6	17	Gray sandy clay with fine gravel; moist - stiff	780.6	17	Gray sandy clay with fine gravel; moist - stiff
720	780.5	18	Gray sandy clay with fine gravel; moist - stiff	780.5	18	Gray sandy clay with fine gravel; moist - stiff
715	780.4	19	Gray sandy clay with fine gravel; moist - stiff	780.4	19	Gray sandy clay with fine gravel; moist - stiff
710	780.3	20	Gray sandy clay with fine gravel; moist - stiff	780.3	20	Gray sandy clay with fine gravel; moist - stiff
705	780.2	21	Gray sandy clay with fine gravel; moist - stiff	780.2	21	Gray sandy clay with fine gravel; moist - stiff
700	780.1	22	Gray sandy clay with fine gravel; moist - stiff	780.1	22	Gray sandy clay with fine gravel; moist - stiff

SOIL BORINGS
 SCALES: HORIZ. 1"=30'-0" VERT. 1"=5'-0"
 SUBMITTED FOR APPROVAL *Tom L. ...*
 PROJECT 1-465-4 (129) 127
 BRIDGE CONTRACT NO. R-7301
 BRIDGE FILE 1-465-129-5277

PLAN
 DATE: 10/15/65
 BY: J. ...
 CHECKED: ...
 APPROVED: ...

PROFILE
 DATE: 10/15/65
 BY: J. ...
 CHECKED: ...
 APPROVED: ...

Depth of Boring - 30'-0" Depth of Boring - 30'-0" Depth of Boring - 30'-0"



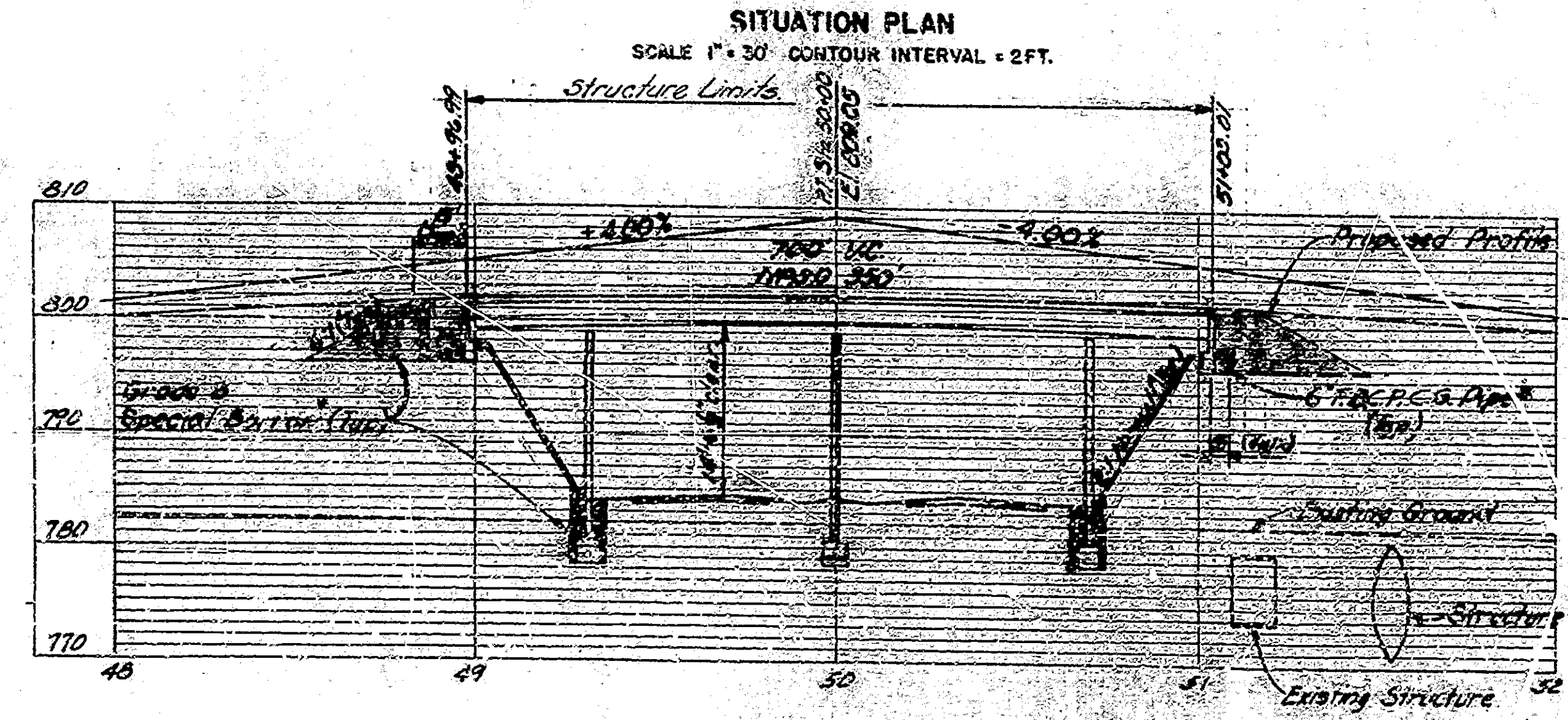
UTILITY OWNER
 Telephone: Indiana Bell Telephone Co.
 240 N. Meridian St.
 Indianapolis, Indiana
 Electric: Indianapolis Power & Light Co.
 25 Monument Circle
 Indianapolis, Indiana

BRIDGES OVER 20' SPAN					
PUB. ROAD RES. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-465-4 (100) 27	1965	3	22

NOTES:
 Location: Section 18, Township 17 N., Range 3 E & Section 18, Township 17 N., Range 4 E, Washington Township, Marion County.
 Approach Data: For bench marks, alignment references and additional approach details, see Sheet 20, Project 1-465-4 (100) 27 (Roadway Plans).
 Soil Data: For soil borings, see Sheet 2. See Article A 203 of the specifications regarding test pit data.
 Field Notes:
 Book 8853 T, page 25
 Book 8854 L, pages 92 thru 94
 Book 8855 T, pages 40 & 41
 Book 8856 L, pages 53 & 54.

Notes:
 Crosshatched areas indicate 4% sq. yd. slope wall including 132 sq. yd. equivalent concrete for wall and special conc. curb.
 Exist. structure at 21+15 is 6'x12' concrete culvert with concrete wingwalls.
 * Indicates items included in Road Quantities.

CURVE DATA - 21:
 PVI - Sta. 777+00.0
 V.C. - 80.0
 Elev. - 783.68
 g₁ - 0.60%
 g₂ - 0.00%



LAYOUT
 Composite Continuous Steel Beam Bridge
 4 Spans @ 32'-0", 69'-6", 69'-6", 33'-0", 32'-6" Roadway, 8" Corbs
 Stew: 20°-24'-40" Right
 Over Interstate, Act 465 on Westfield Rd. (Existing)

INDIANA STATE HIGHWAY COMMISSION
 MARION COUNTY

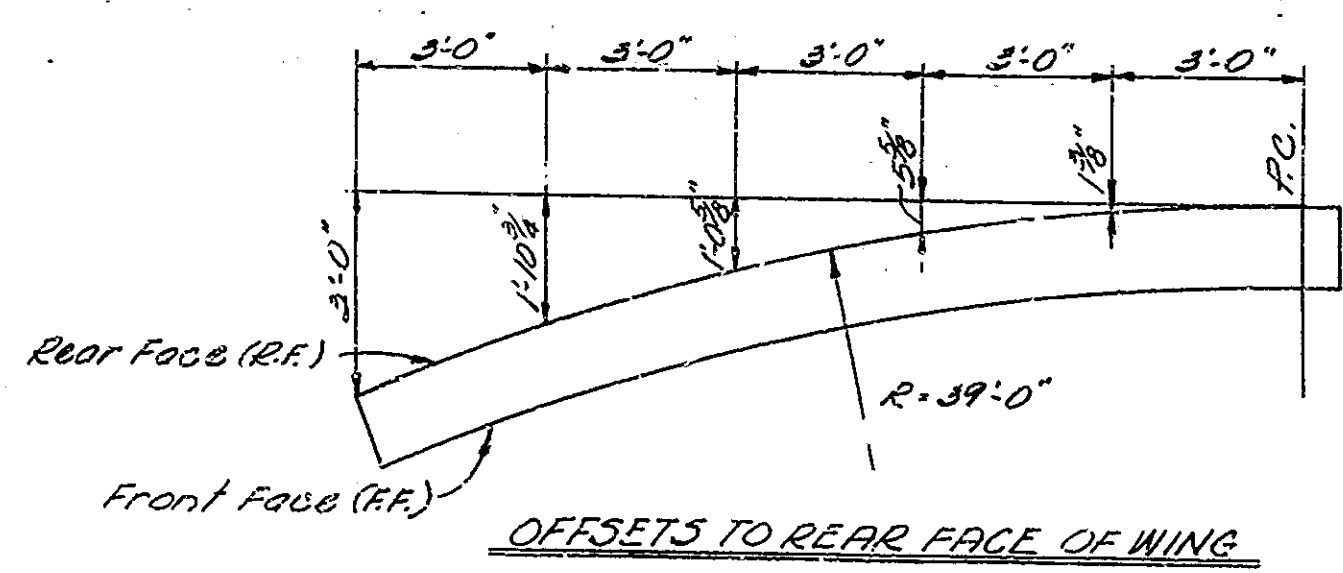
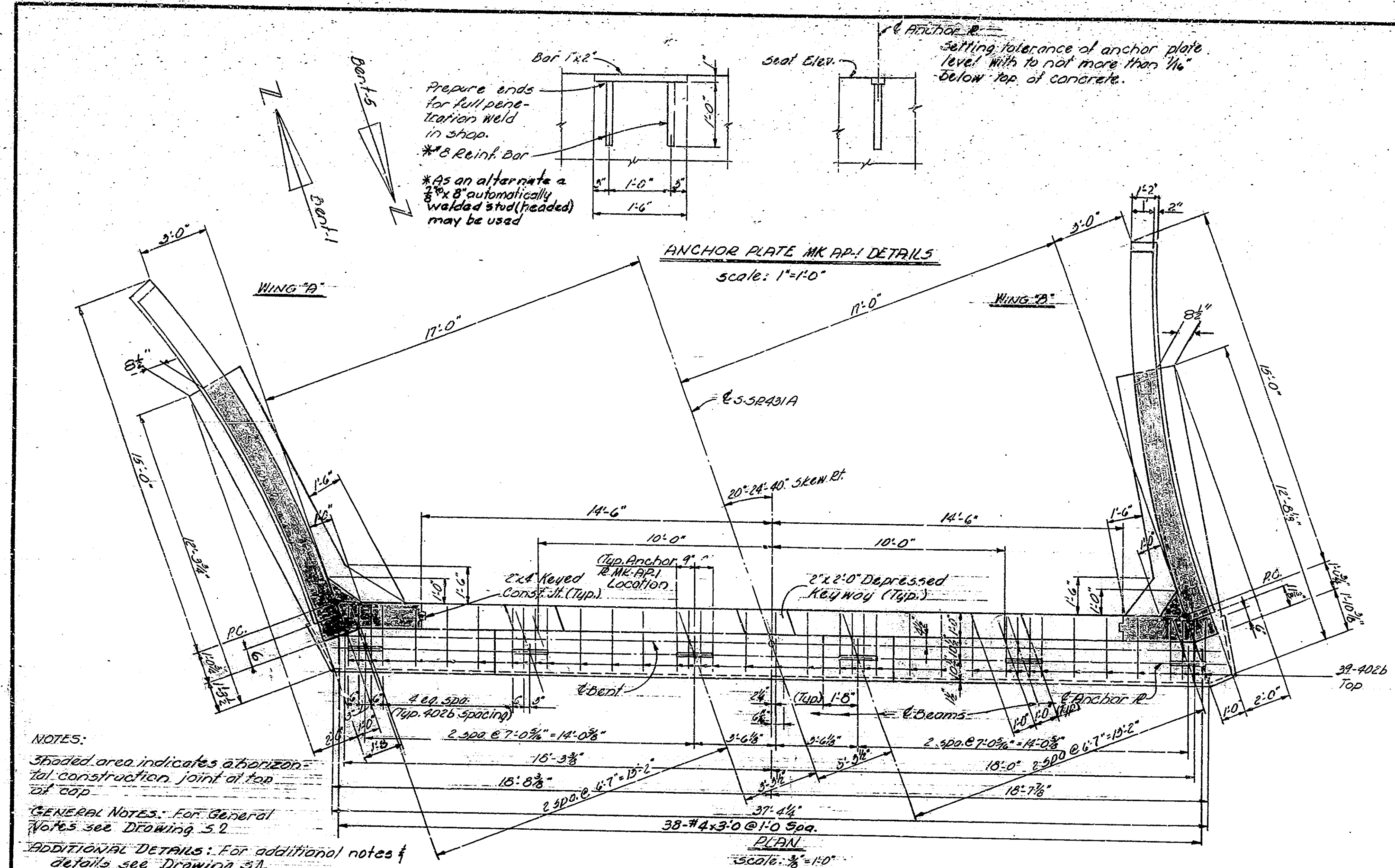
SCALE: As Noted April 15, 1965
 SUBMITTED FOR APPROVAL: Tom L. Howard, P.E.

DRAWING: 31 OF 13
 PROJECT: I-465-4 (100) 27 (North Leg)
 BRIDGE CONTRACT NO. R-7391
 BRIDGE FILE: I-465-4-5877 Sta. 50+00.0

DESIGNED ANA CKD GEA
 DRAWN PND CKD GEA
 TRACED DMW CKD TLU

Per 10-10-56 Special Conc. Curb, Wallfield Rd.
 Rev. 5-27-56 Slope Wall & Pipe

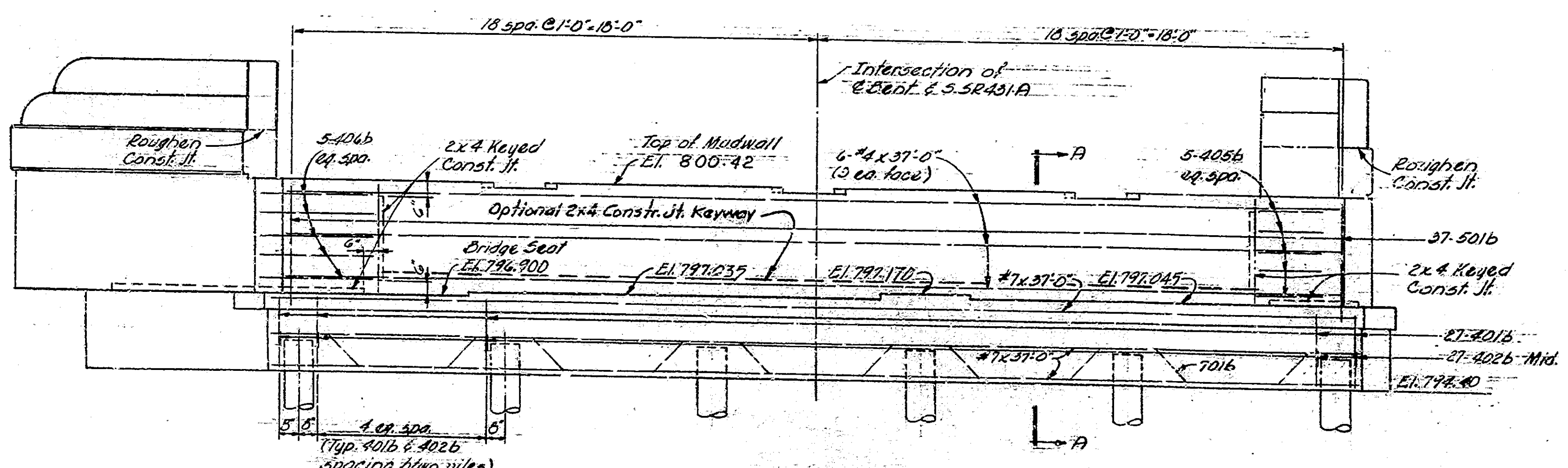
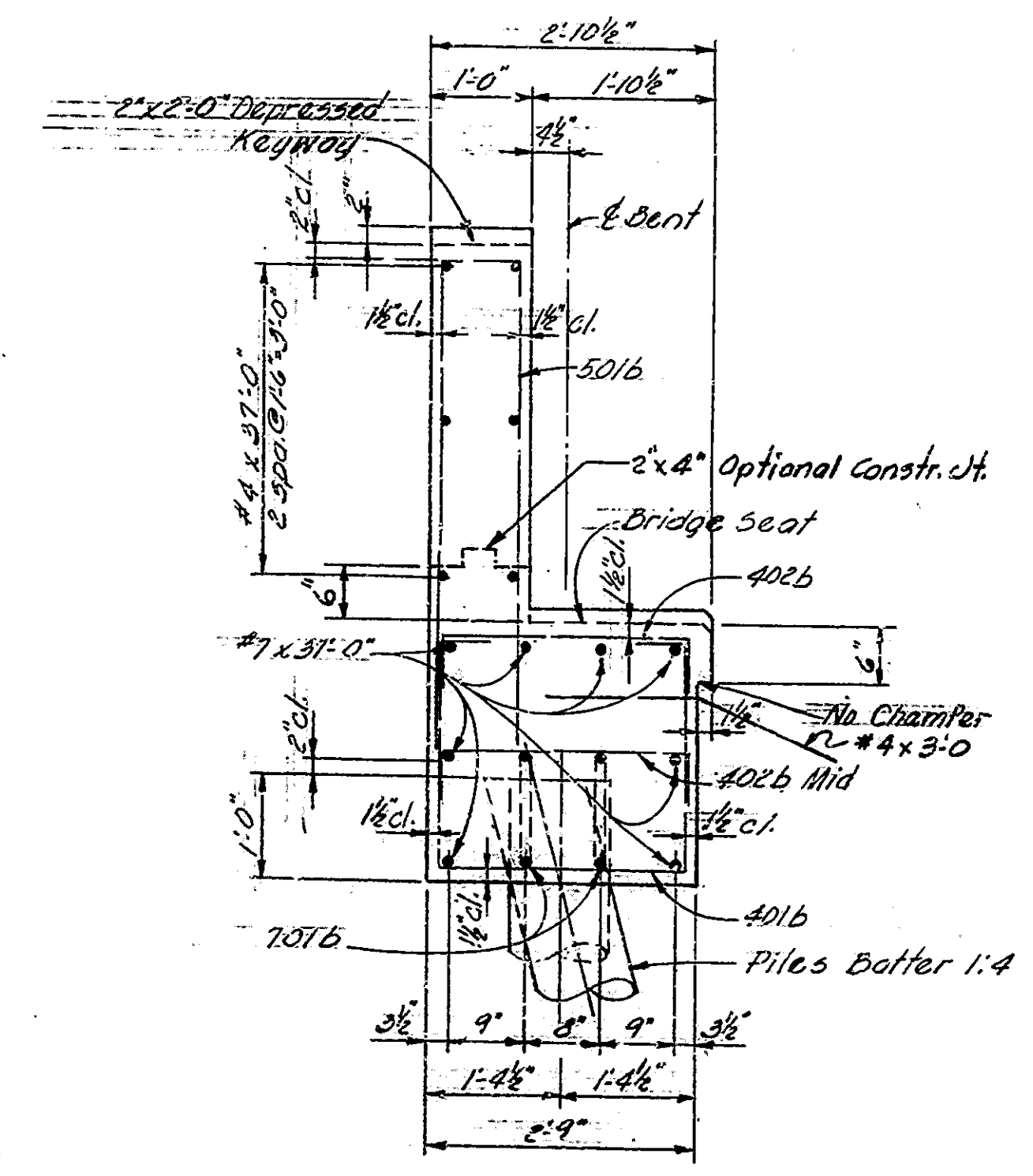
BRIDGES OVER 20' SPAN				
PUR. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
4	IND.	I-465-4 (129) 127	1965	22



NOTES:
 Shaded area indicates a horizontal construction joint at top of cap.

GENERAL NOTES: For General Notes see Drawing 52.

ADDITIONAL DETAILS: For additional notes & details see Drawing 54.



DESIGNED GEA CKD JWD
 DRAWN BCB CKD JWD
 TRACED CKD

BENT 1 & 5 DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: as noted April 15, 1965
 SUBMITTED FOR APPROVAL: Tom L. Anderson, P.E.

DRAWING: 5-3 OF 15
 PROJECT: I-465-4 (129) 127
 BRIDGE CONTRACT NO. B-7391
 BRIDGE FILE: I-465-729-5277

REV. 5-23-66 Anchor Pl. Cap Reinf. Steel

PROJECT NO.	LIN.	SHEET NO.	TOTAL SHEETS	FILE
I-465-4 (129) 127	5-22	5	22	I-465-729-5277

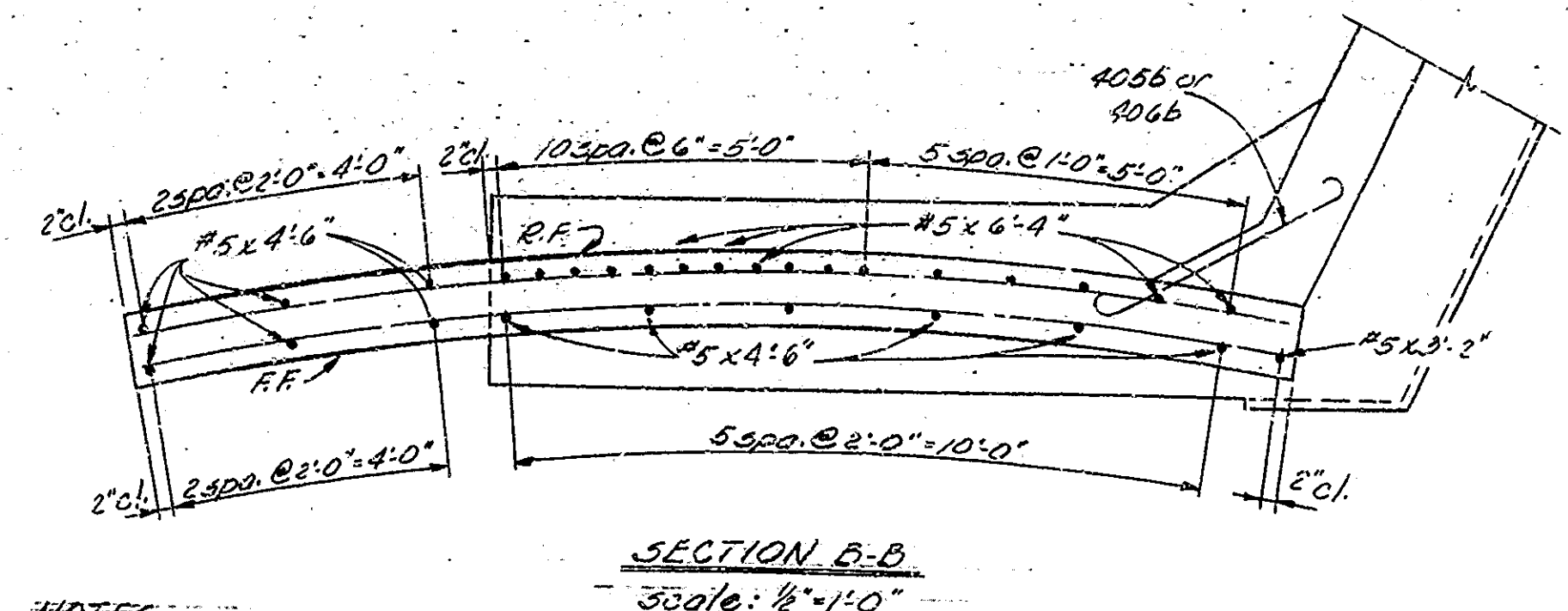
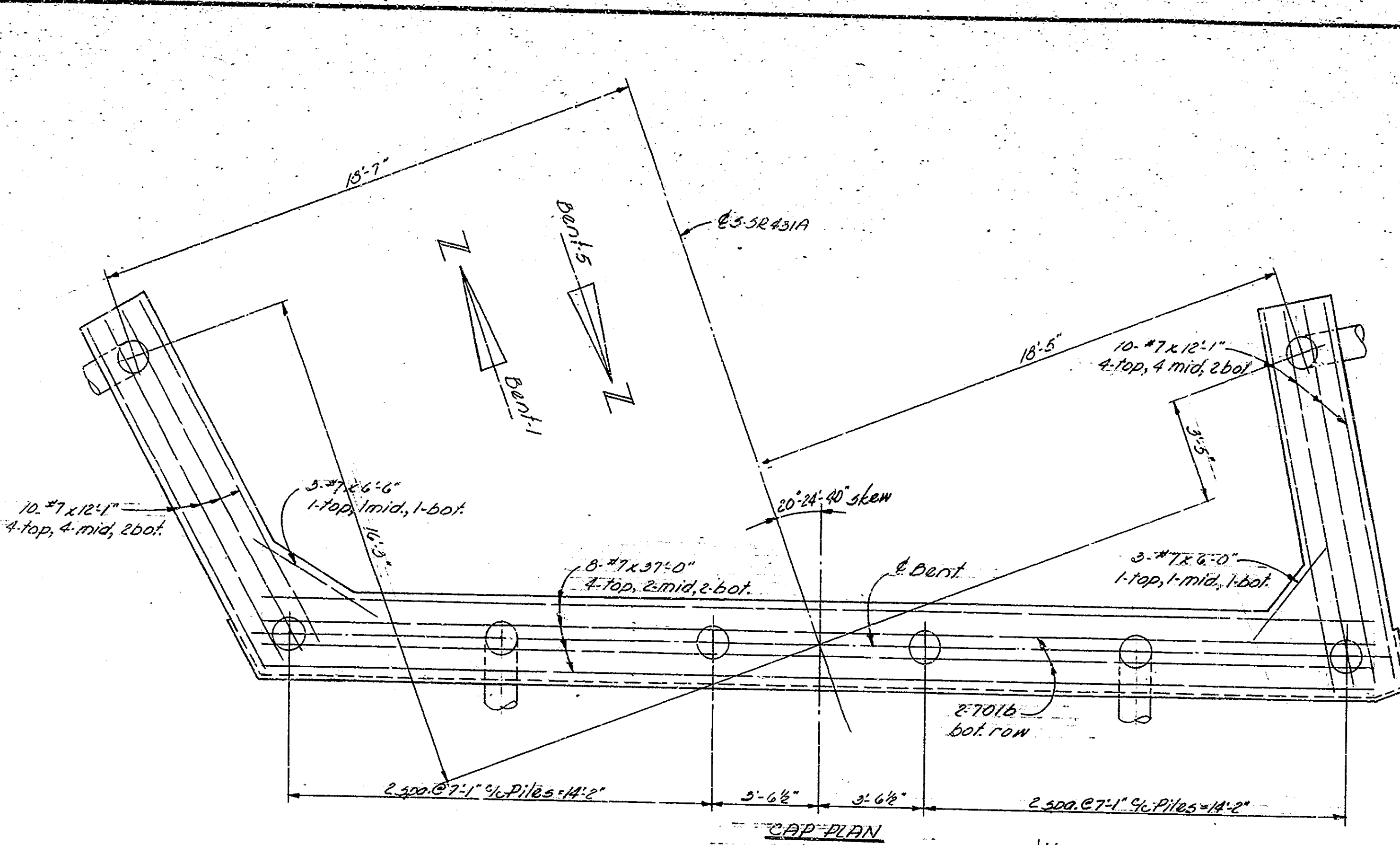
BRIDGES OVER 20' SPAN					
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	129127	1967	6	22

**BILL OF MATERIALS
BENT-1
(Bent-5 same)**

REINFORCING STEEL			
SIZE and MARK	NO. OF BARS	LENGTH	WEIGHT
#7	2	41.4	169
#7	3	37.0	605
#7	20	12.1	494
#7	3	6.6	40
#7	3	6.0	37
		Total #7	1345
#6	4	15.2	41
		Total #6	41
		Total #7 & #6	1386
501b	37	9.7	370
502b	4	6.3	26
503b	4	5.0	21
504b	28	4.1	117
#5	4	6.7	27
#5	12	16.0	200
#5	4	15.2	63
#5	2	3.2	7
#5	24	4.2	113
#5	32	6.4	211
		Total #5	1157
401b	27	8.0	144
402b	66	3.6	154
403b	32	3.3	69
404b	16	7.9	83
405b	5	4.0	13
406b	3	5.0	17
407b	2	3.2	7
408b	2	4.2	7
#3	3	3.3	14
		Total #4	717
#3	28	2.2	23
#3	4	11.0	22
#3	4	13.0	20
#3	4	14.0	21
		Total #3	86
		Total steel	3266

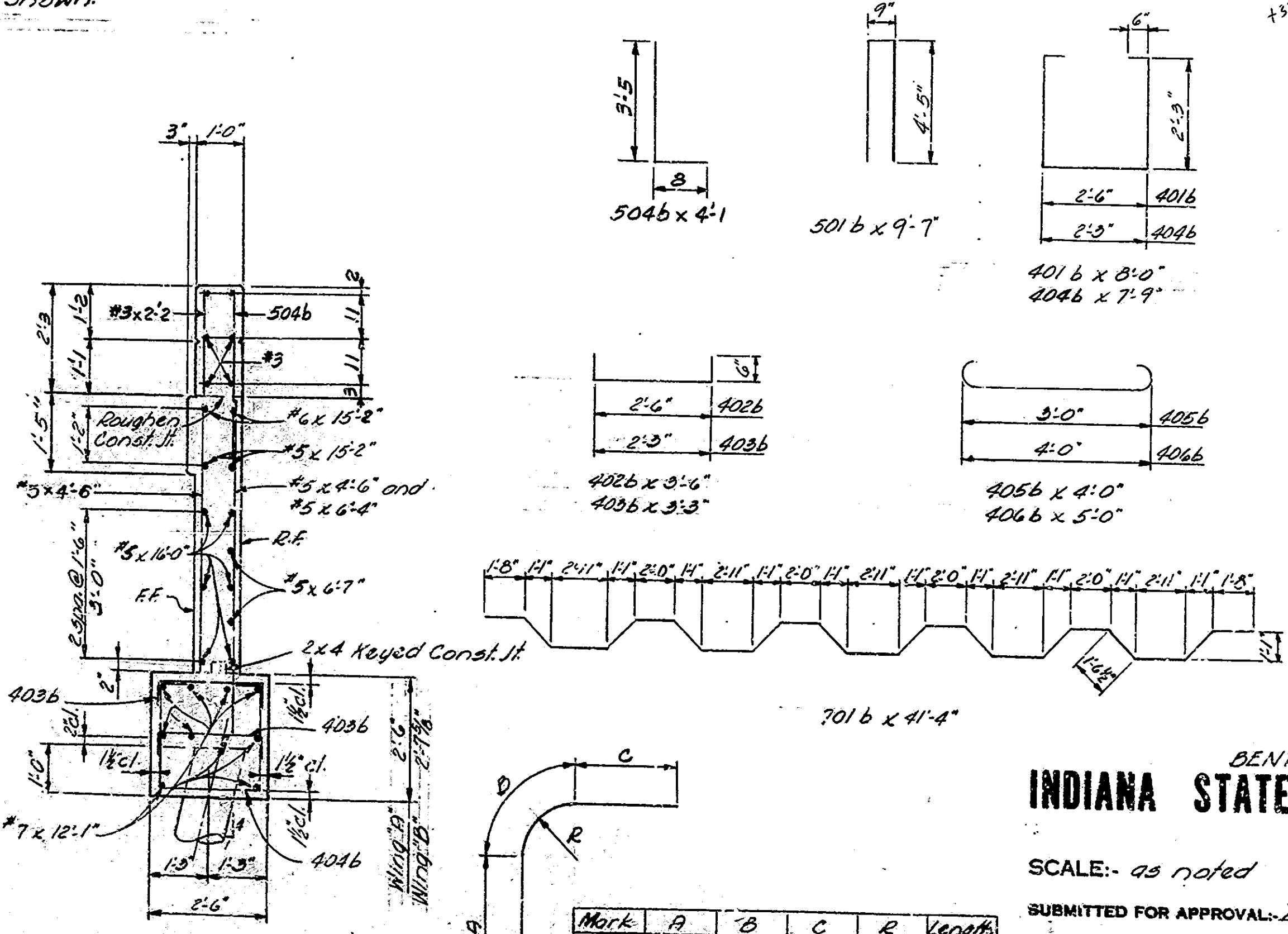
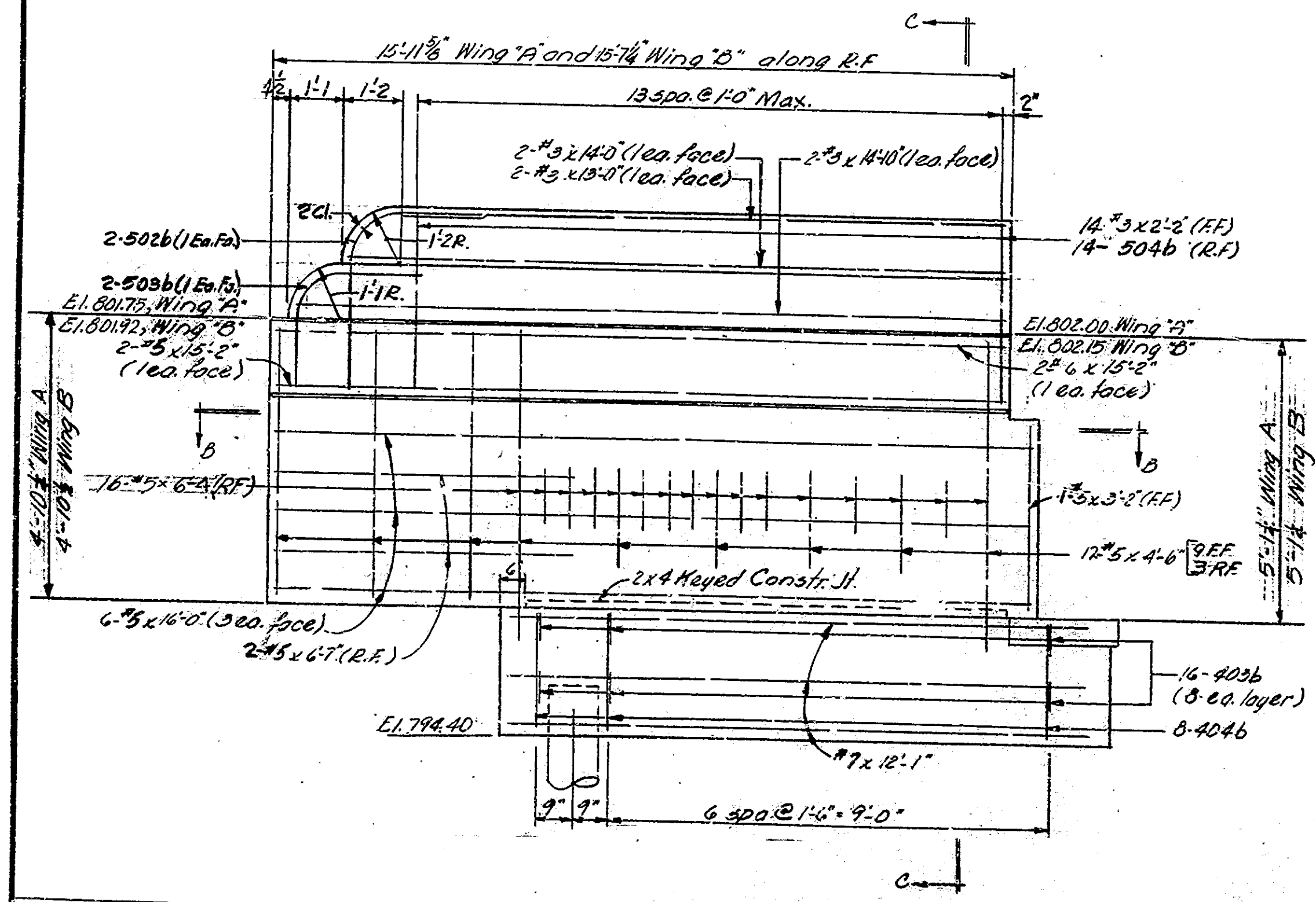
CONCRETE	
Class F in cap:	
Entire cap and mud:	
Wall b/w const. fls.	17.2 cys.
Wing A	3.8 cys.
Wing B	3.7 cys.
Total	24.7 cys.
Class F Railing Concrete	
2 @ 12	2.4 cys.

MISCELLANEOUS	
8-12" #7 Co. Steel En-cased Conc. Piles @ 35'	230 LF
Anchor Plates Mk-A-1	6 each



NOTES
 BENT CAP: Bent cap shall not be poured until after fill has been completed up to approximate elevation of bottom of cap.
 TOP OF MUDWALL: Top of mudwall and top of depressed keyways shall be trowelled smooth. Cover horizontal surfaces with one layer of medium weight roofing felt and provide a 1/4 inch expansion joint material along vertical sides of keyways.
 REINFORCING STEEL: For reinforcing bar notes see Bridge Standard C-1.
 PILES: 12" Steel Encased Concrete, 7ga. piles to be driven to 35 tons minimum bearing capacity. Approximate pile length is 35 feet.
 ANCHOR PLATES: Anchor plates Mk-A-1 to be pre-set in the concrete.
 R.F. indicates front face.
 R.E. indicates rear face.
 ADDITIONAL DETAILS: For additional details see Drawing 53.
 GENERAL NOTES: See Drawing 52 for General Notes.

NOTE:
 Piles shall be battered 1:4 in direction shown.



INDIANA STATE HIGHWAY COMMISSION

SCALE: as noted
 April 15, 1965

SUBMITTED FOR APPROVAL: *Tou L. H. Duong, P.E.*

DRAWING: 5-A OF 15
 PROJECT: I-465-4 (129) 127
 BRIDGE CONTRACT NO. R-7391
 BRIDGE FILE: I-465-129-5277

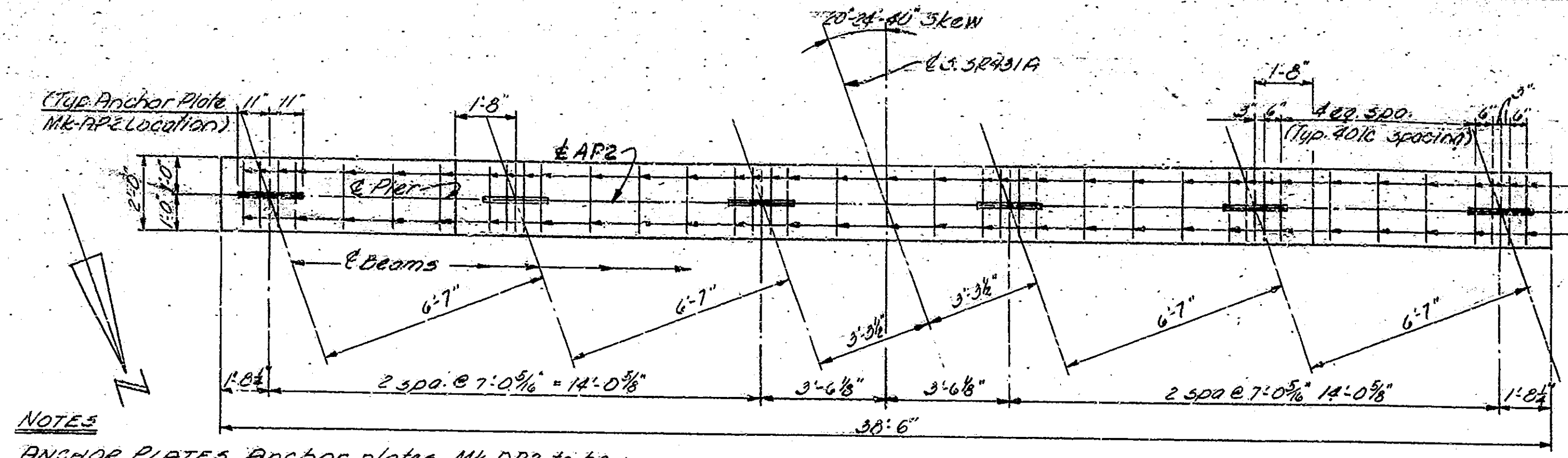
DESIGNED: GEA	CHKD: JND
DRAWN: DWD	CHKD: JND
TRACED: CWD	

WING ELEVATION
 scale: 1/2" = 1'-0"

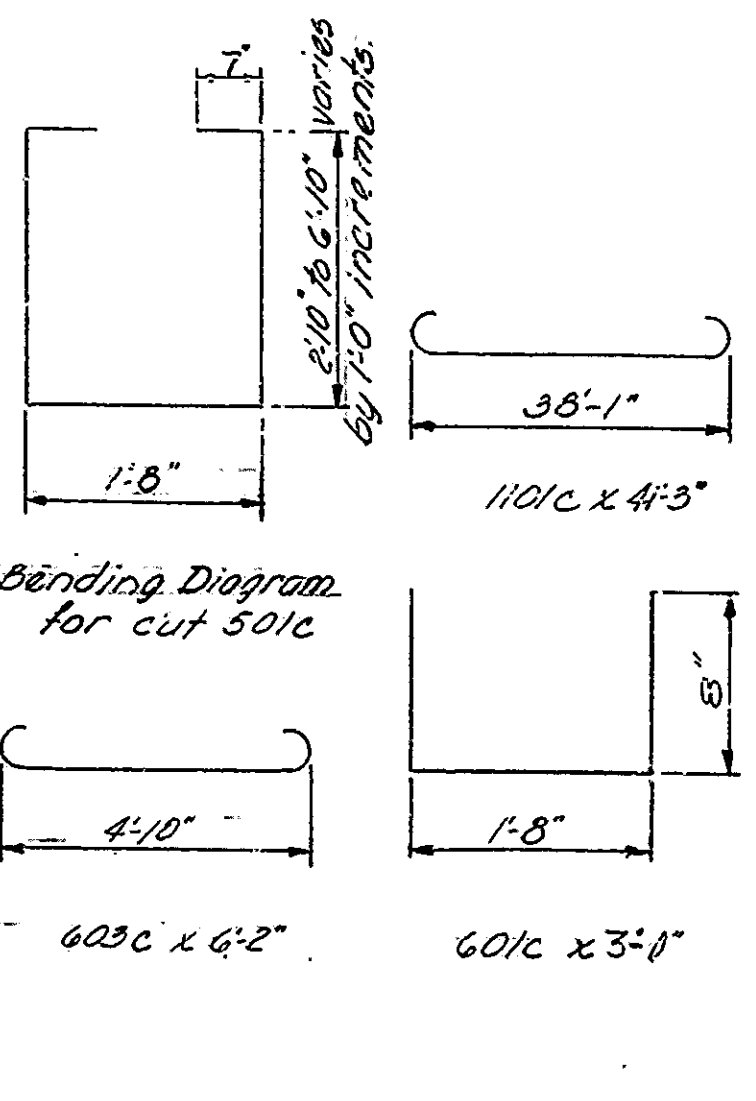
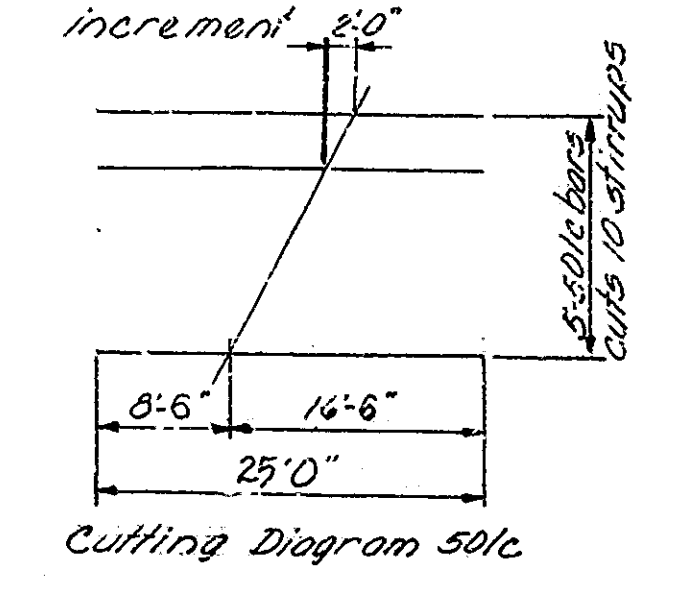
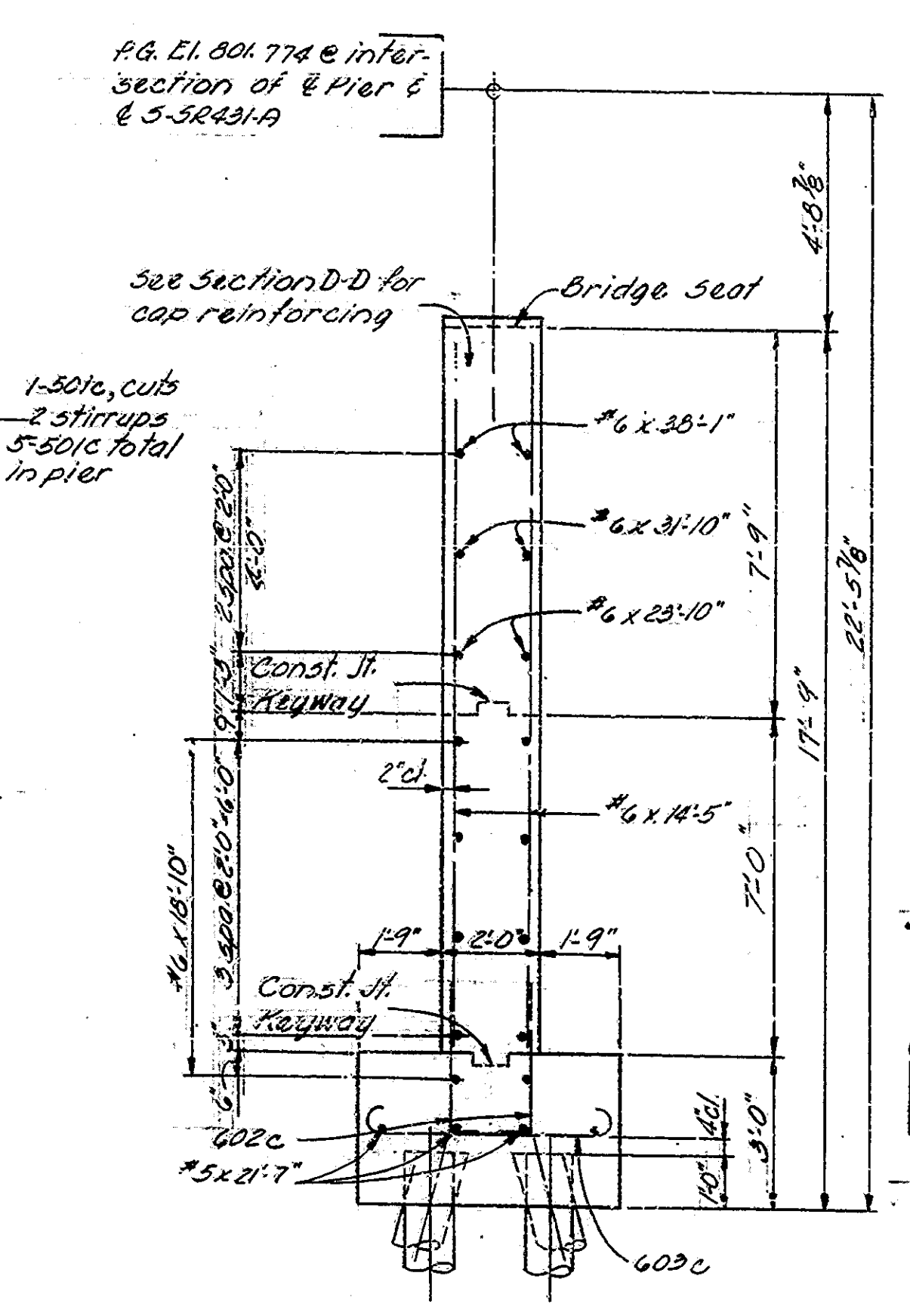
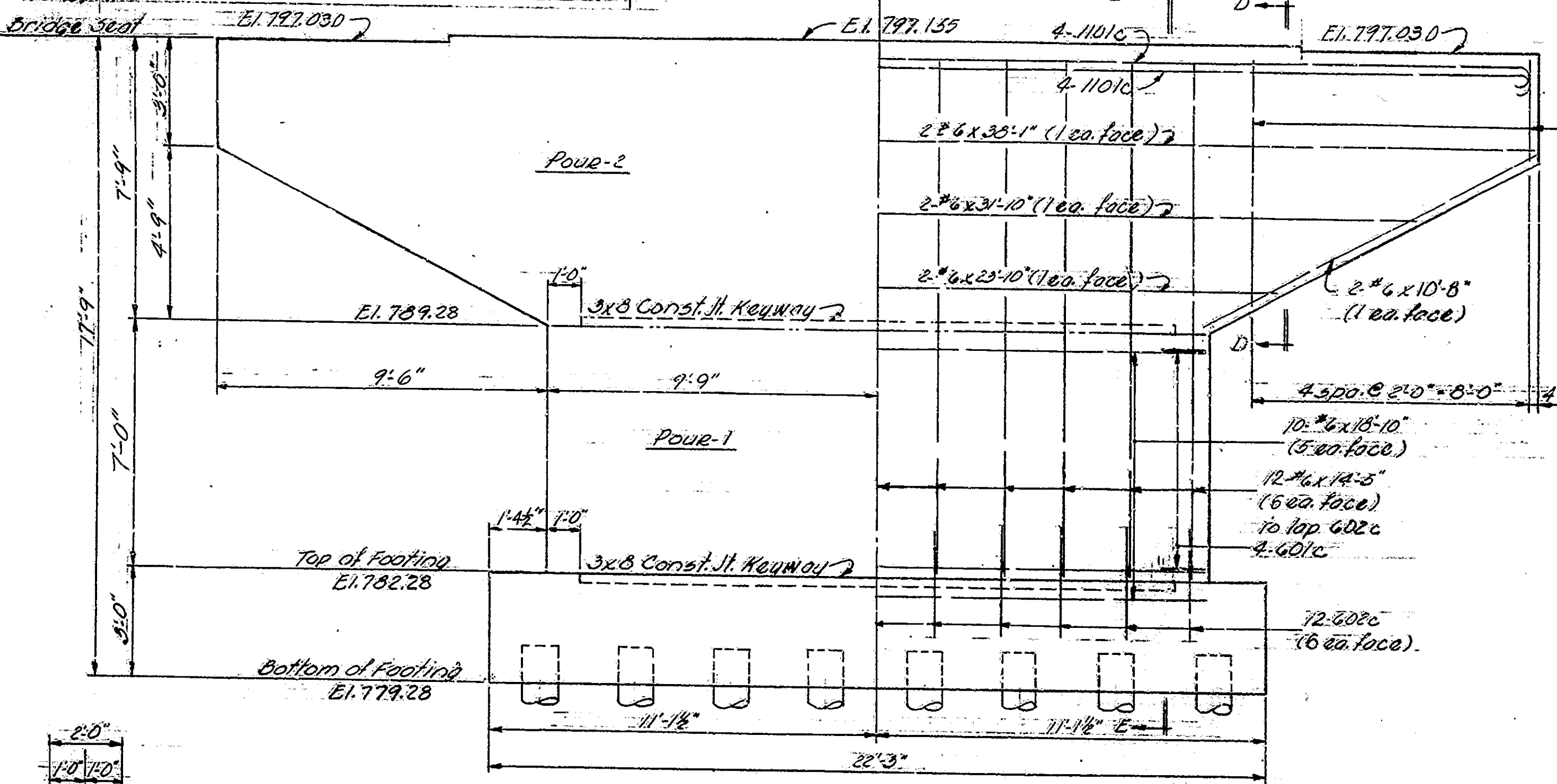
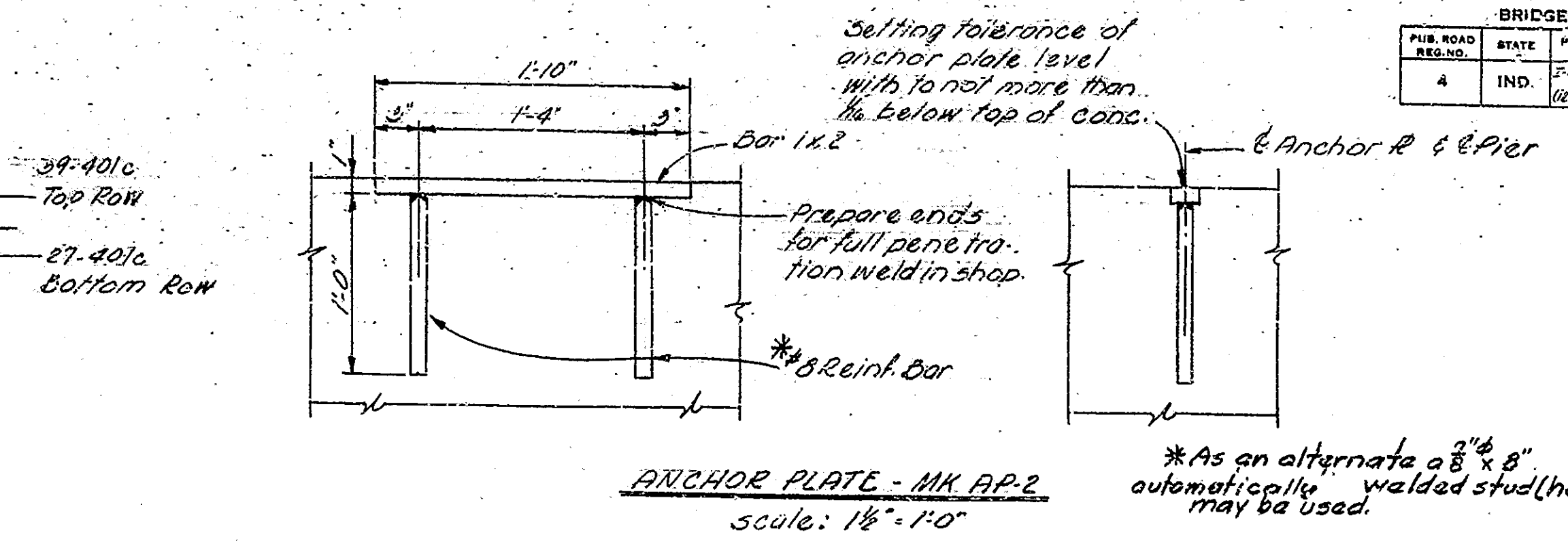
SECTION C-C
 scale: 1/2" = 1'-0"

PROJECT NO.	DATE	SHEET NO.	TOTAL SHEETS
I-465-4 (129) 127	11/6/61	6	22

BRIDGES OVER 30' SPAN					
PIER NO.	STATE	PROJECT NO.	PICAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1-465-4 (29)127	1965	7	22

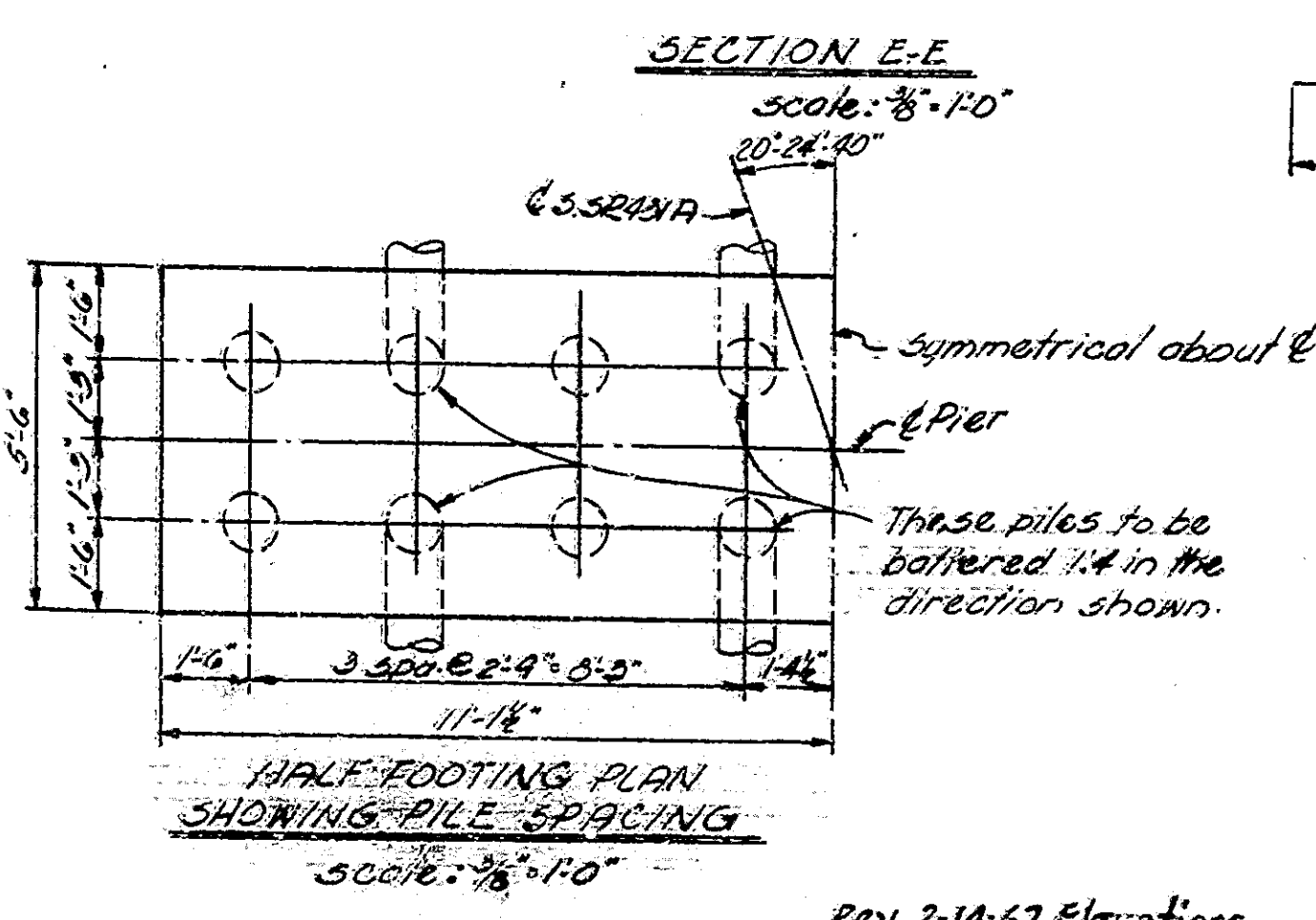
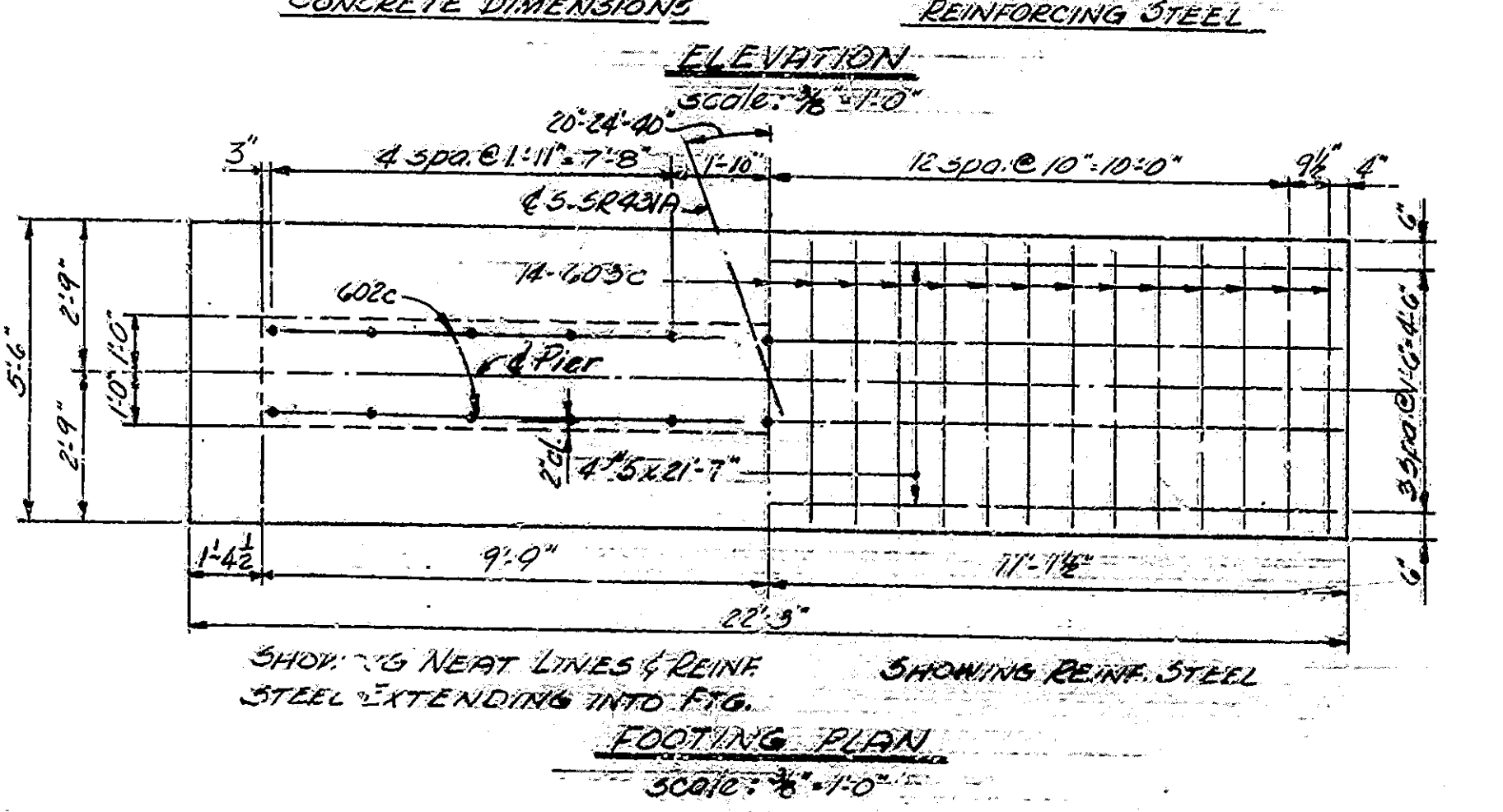
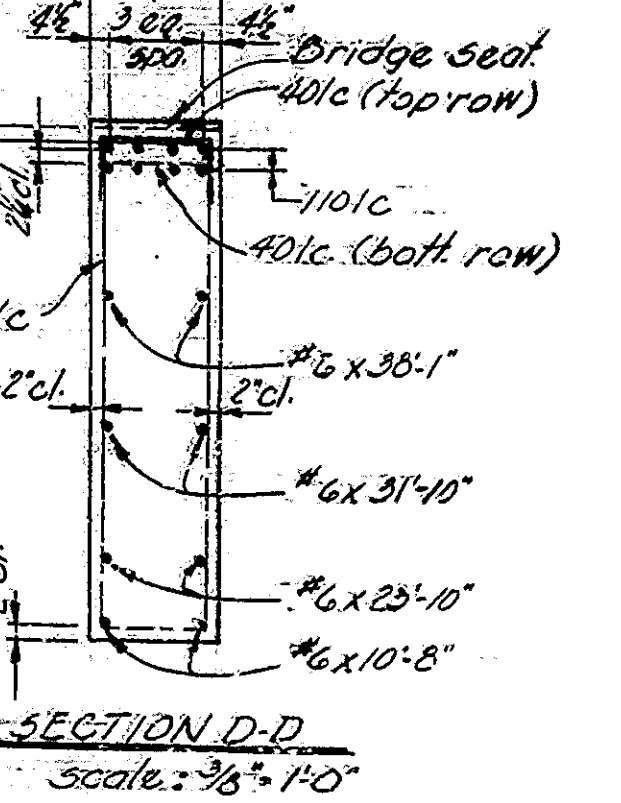


NOTES
ANCHOR PLATES - Anchor plates Mk.AP.2 to be pre-set in the concrete.
REINFORCING STEEL - For reinforcing steel bar notes see Bridge Standard C.
GENERAL NOTES - See Drawing 52 for General Notes.
PILES - Treated timber piles shall be driven to a minimum bearing capacity of 25 tons. Approximate pile length is 25 ft.



BILL OF MATERIALS
PIER No. 2
 (Pier 4 same)

REINFORCING STEEL			
SIZE and MARK	No. of BARS	LENGTH	WEIGHT
1101c	8	41'-3"	1753
601c	8	3'-0"	36
602c	22	4'-4"	153
603c	27	6'-2"	250
#6	2	38'-1"	114
#6	2	31'-10"	96
#6	2	23'-10"	72
#6	10	18'-10"	283
#6	22	14'-5"	476
#6	4	10'-8"	64
		Total #6	1,534
501c	5	27'-0"	130
#5	4	21'-7"	96
		Total #5	220
401c	66	2'-8"	118
		Total steel	3,675
CONCRETE			
Footing Class "E"			19.6 CYs.
Pour-1 Class "E"			7.7 CYs.
Pour-2 Class "E"			19.1 CYs.
MISCELLANEOUS			
Anchor Plates Mk.AP.2			6 each
Treated Timber Piles @ 25'			400 LF



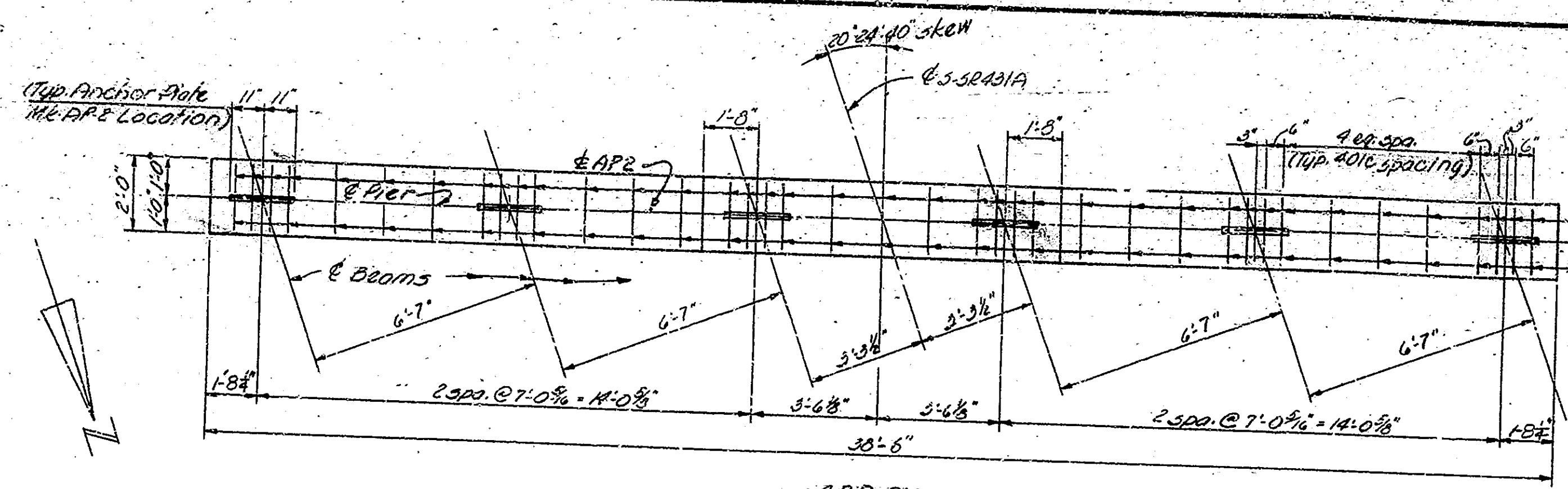
PIERS 2 & 4 DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: as noted
 April 15, 1965
 SUBMITTED FOR APPROVAL: *Tom R. Williams, P.E.*
 DRAWING: 5-5 OF 13
 PROJECT: 1-465-4 (129) 127
 BRIDGE CONTRACT NO. R-7391
 BRIDGE FILE: 1-465-129-5277

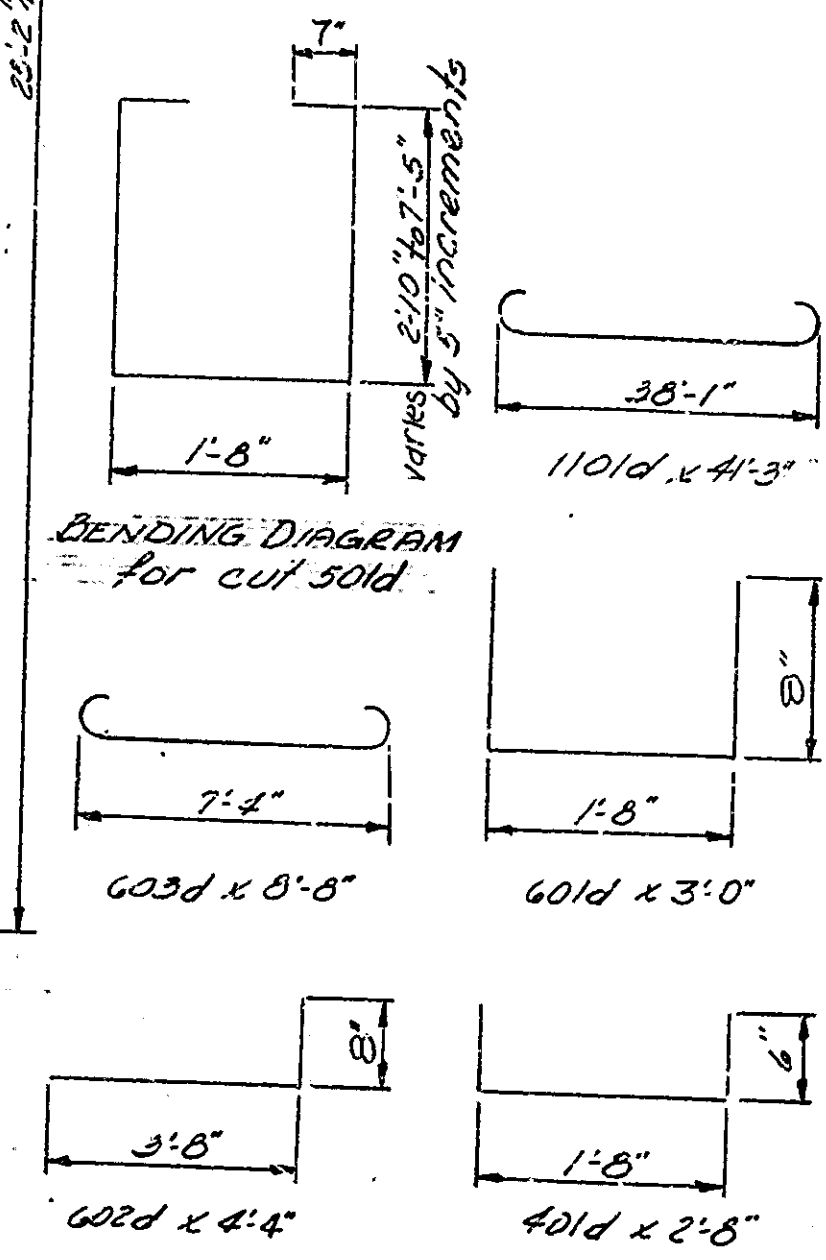
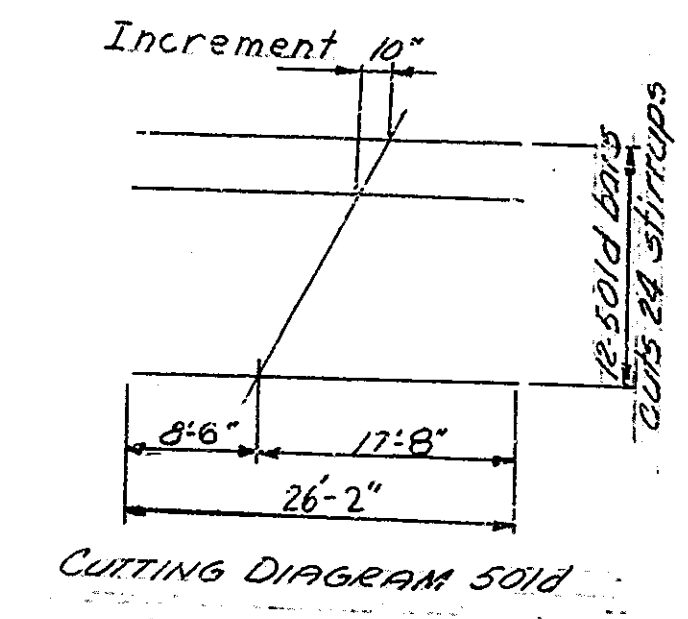
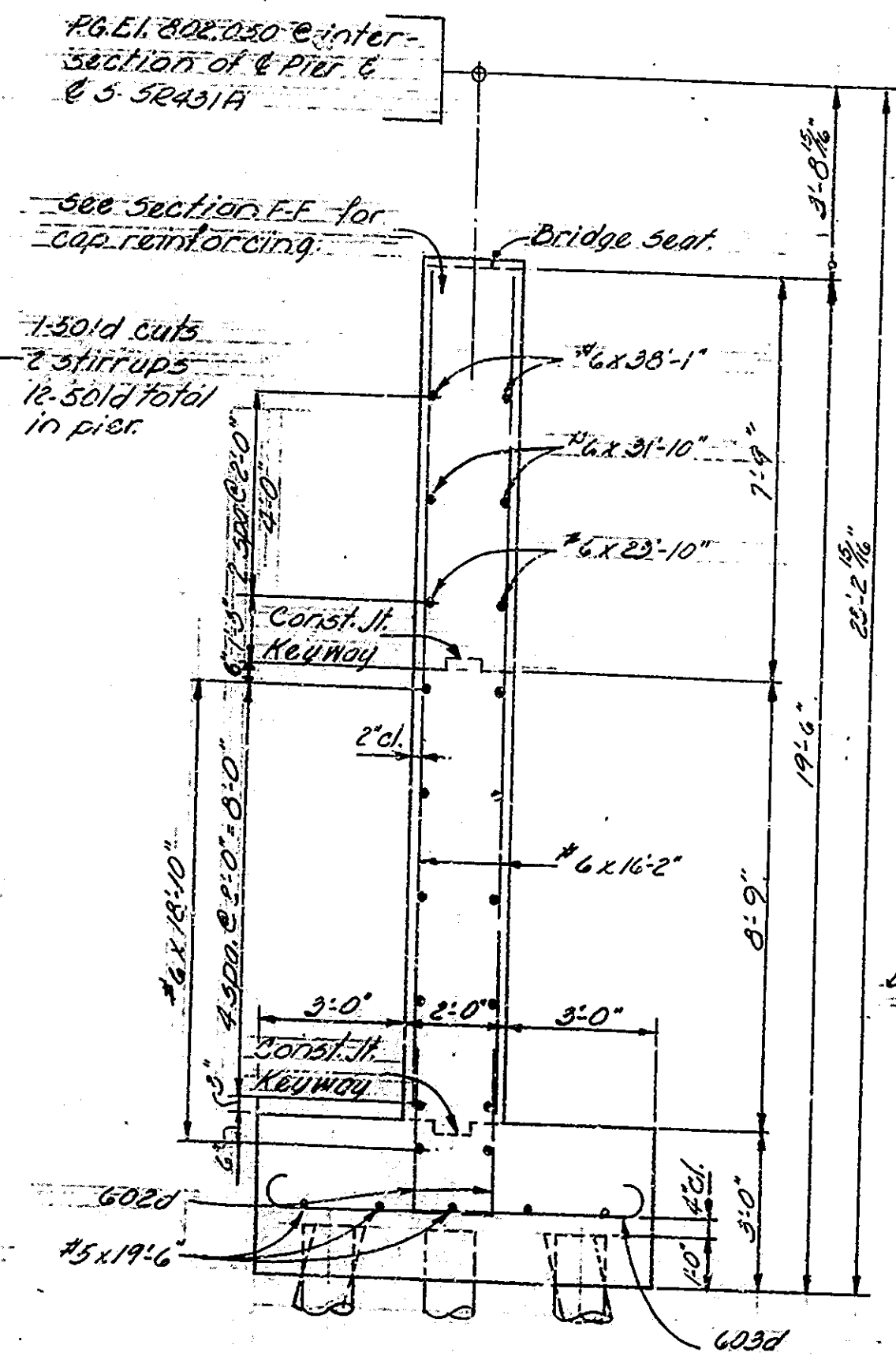
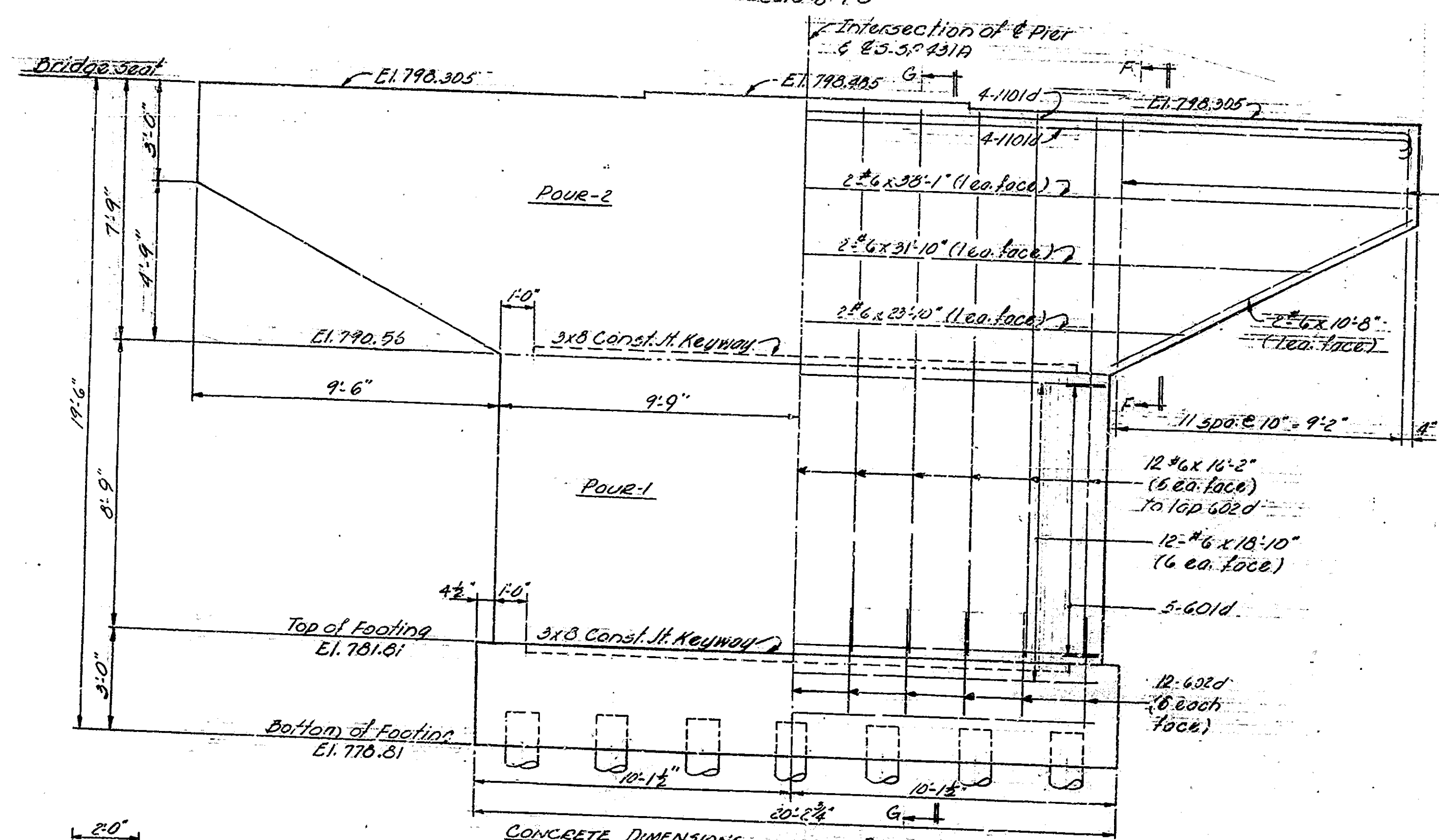
DESIGNED: GEA C.R.D. P.N.C.
 DRAWN: P.M.D. C.R.D. P.N.C.
 TRACED: C.R.D.

PROJECT NO.	LINE	SHEET	TOTAL SHEETS	FILE
1-465-4 (129) 127	5-29-66	7	22	1-465-129-5277

BRIDGES OVER 20' SPAN					
PUB. ROAD	STATE	PROJECT	FISCAL	OBJECT	TOTAL
NO.		NO.	YEAR	NO.	SHEETS
4	IND.	I-465-4 (129)127	1965	8	22

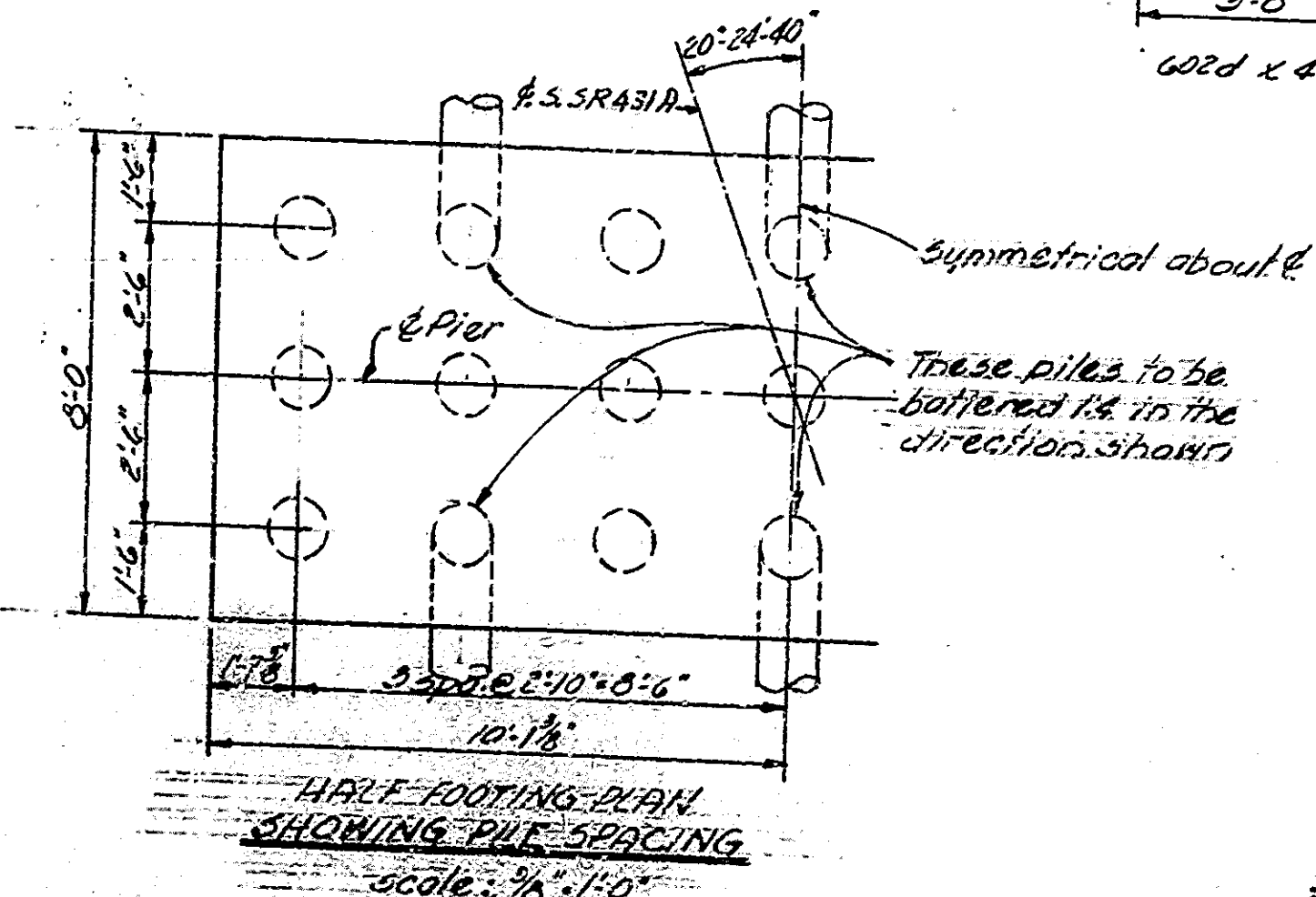
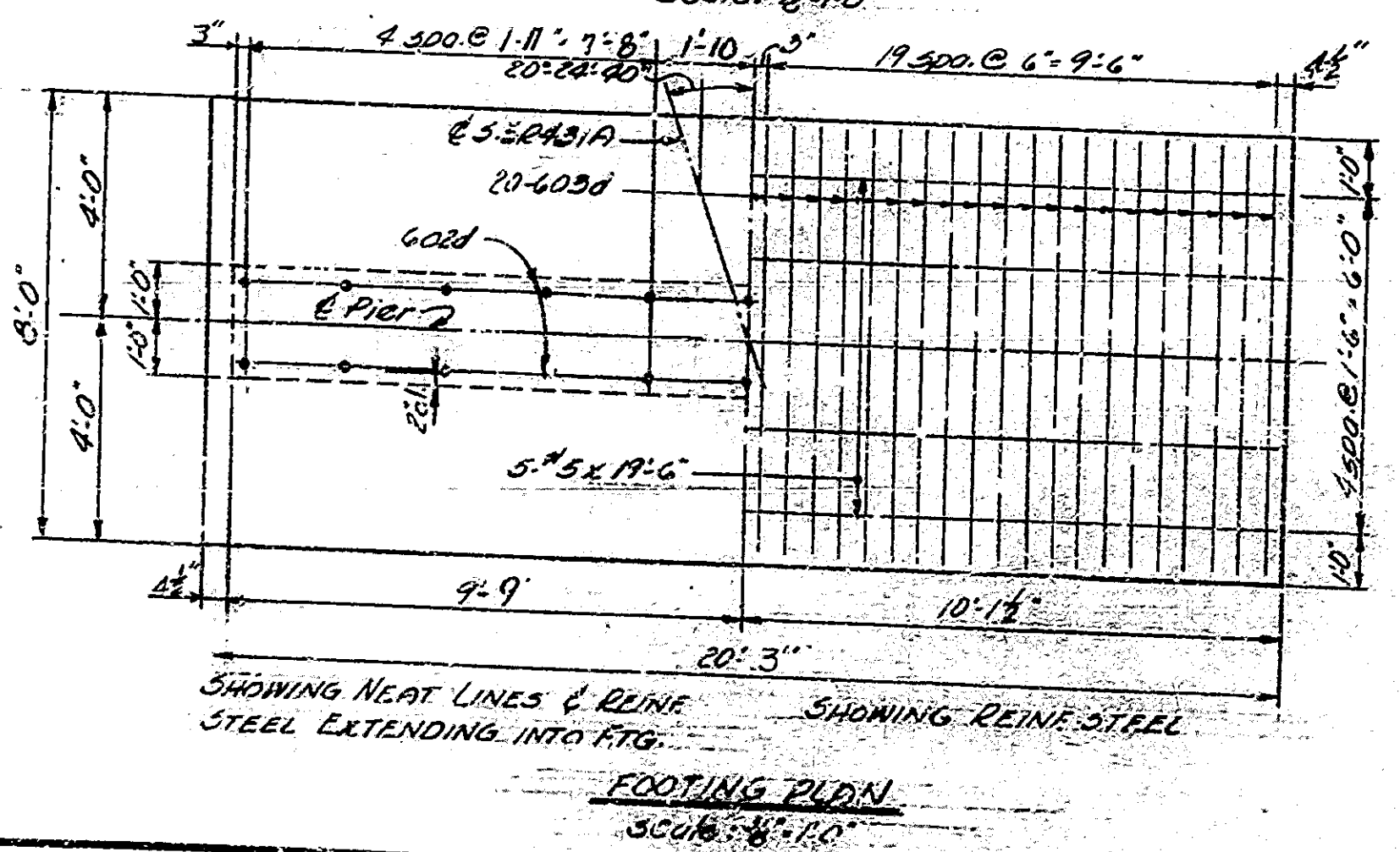
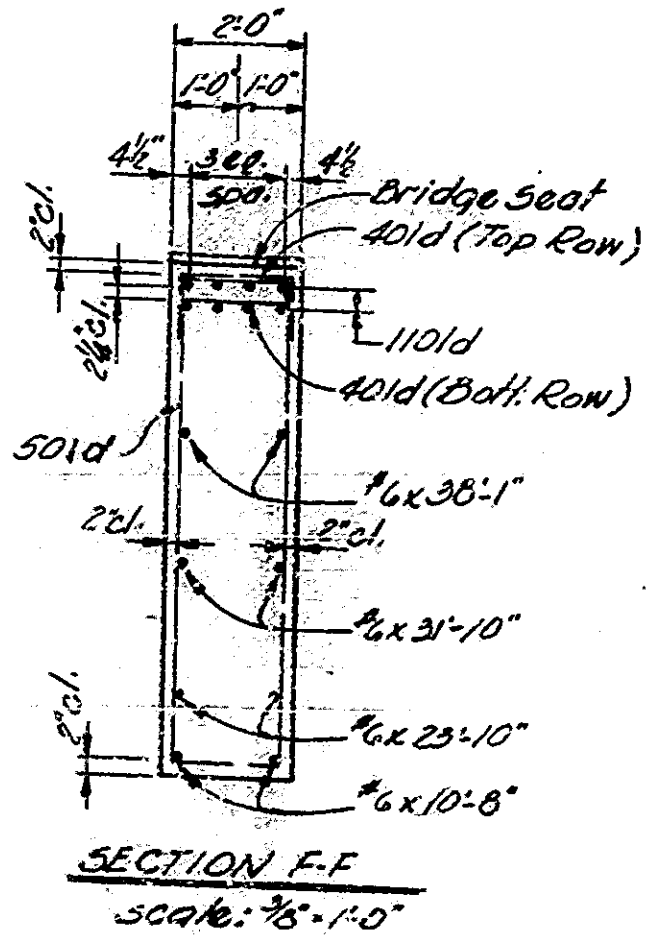


NOTES:
 ANCHOR PLATES: for anchor plate, M.A.P.2 see Drawing 55
 REINFORCING STEEL: for reinforcing steel bar notes see Bridge Standard Drawing C.
 GENERAL NOTES: See Drawing 52 for General Notes.
 PILES: Treated timber piles shall be driven to a minimum bearing capacity of 25 tons. Approximate pile length 15'-25' feet.



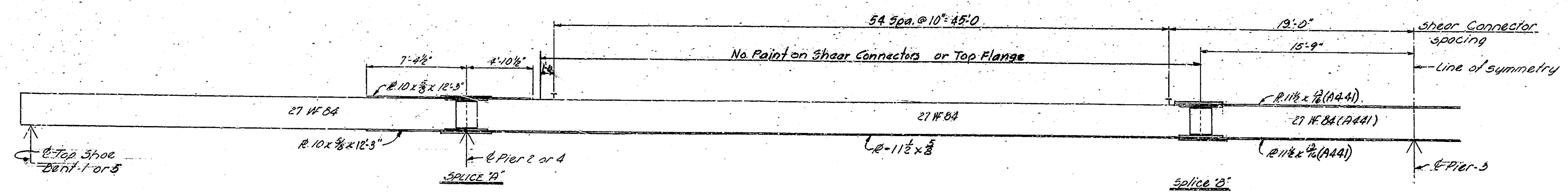
BILL OF MATERIALS
PIER No. 3

REINFORCING STEEL			
SIZE and MARK	No. OF BARS	LENGTH	WEIGHT
1101d	8	41'-3"	1753
601d	10	3'-0"	45
602d	22	4'-4"	143
603d	40	8'-8"	521
#6	2	38'-1"	114
#6	2	31'-10"	96
#6	2	25'-10"	72
#6	22	16'-2"	534
#6	12	18'-10"	339
#6	4	14'-5"	64
		Total #6	1,923
501d	12	26'-2"	328
#5	5	19'-6"	102
		Total #5	430
401d	66	2'-8"	113
		Total steel	4,219
CONCRETE			
Footings Class E		18.06 cu yds	
Pour-1 Class E		12.25 cu yds	
Pour-2 Class F		11.54 cu yds	
MISCELLANEOUS			
Anchor Plates M.A.P.2		6 each	
Treated timber piles @ 25'			525 LF



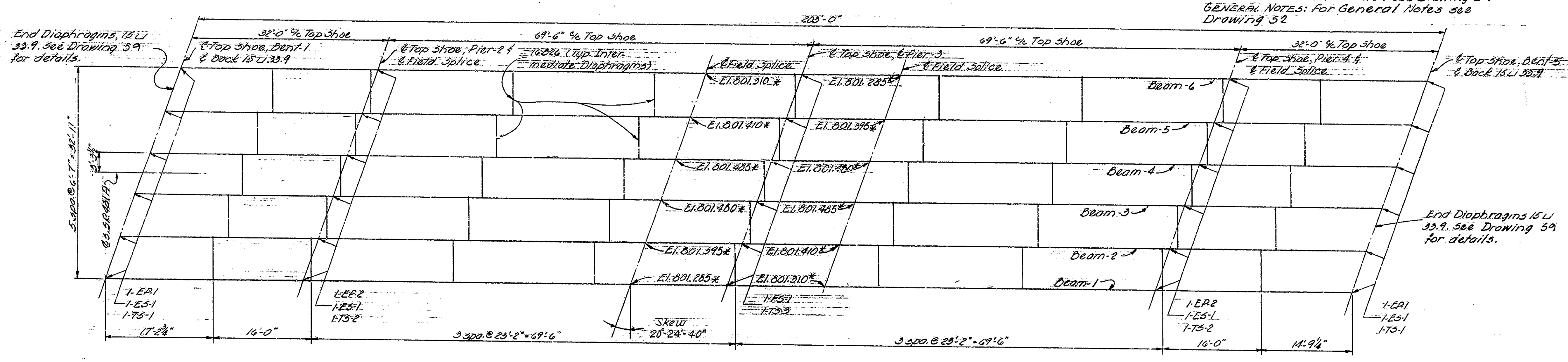
PIER-3 DETAILS
INDIANA STATE HIGHWAY COMMISSION
 SCALE: as noted
 SUBMITTED FOR APPROVAL: Tom L. M. ... P.E.
 DRAWING 56 OF 13
 PROJECT: I-465-4 (129)127
 BRIDGE CONTRACT NO. B-7391
 BRIDGE FILE: I-465-129-5271

BRIDGES OVER 20' SPAN						
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
4	IND.	1465-4	1965	9	22	



BEAM ELEVATION
Scale: 1/4" = 1'-0"

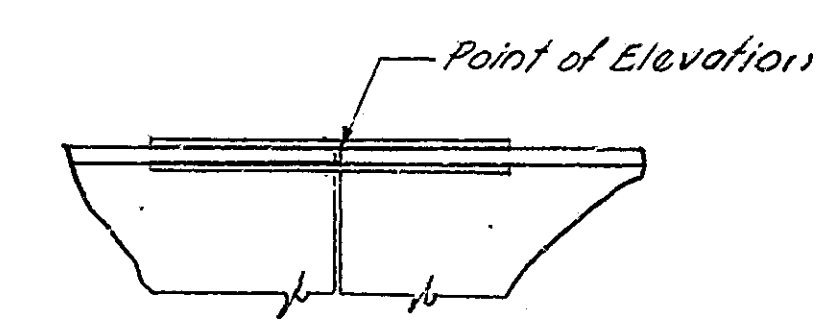
NOTE
For Splice and Cover Plate Details see Drawing 5B
For Shear Connector Detail see Drawing 5A
GENERAL NOTES: For General Notes see Drawing 52



FRAMING PLAN
Scale: 1/8" = 1'-0"

	Max. Pos. Mom. @ 3 Spans AND At Piers		Max. Pos. Mom. @ 3 Spans B/C At Piers		Neg. Mom. @ Piers		Neg. Mom. @ Piers		Reaction @ Piers 1 & 5 kips		Reaction @ Piers 2 & 4 kips		Reaction @ Pier 3 kips	
	Int. Dim.	Ext. Dim.	Int. Dim.	Ext. Dim.	Int. Dim.	Ext. Dim.	Int. Dim.	Ext. Dim.	Int. Dim.	Ext. Dim.	Int. Dim.	Ext. Dim.	Int. Dim.	Ext. Dim.
Dead Load	36.4	36.6	220.5	246.5	207.0	240.0	401.2	530.2	10.9	11.9	49.4	56.9	72.8	83.2
Live Load	152.0	147.0	404.8	392.0	191.9	186.0	208.0	280.0	30.2	23.6	44.7	37.8	45.6	44.2
Impact	45.6	44.1	103.5	100.0	49.5	43.0	54.8	39.2	9.1	7.1	12.4	10.4	10.4	10.1
Total	234.0	228.7	728.8	738.5	448.4	474.0	664.0	849.4	50.2	42.6	106.5	105.1	128.8	137.5

	Stresses @ 3 Spans B/C or C			
	Interior Beam		Exterior Beam	
	f _s psi	f _c psi	f _s psi	f _c psi
Dead Load	7150	61	7510	60
Live Load	9960	479	9140	434
Impact	2540	122	2300	115
Total	19650	662	19010	629



* NOTE: All elevations are given to the top of beam flange. Indicated elevations may vary .02"

INDIANA STATE HIGHWAY COMMISSION

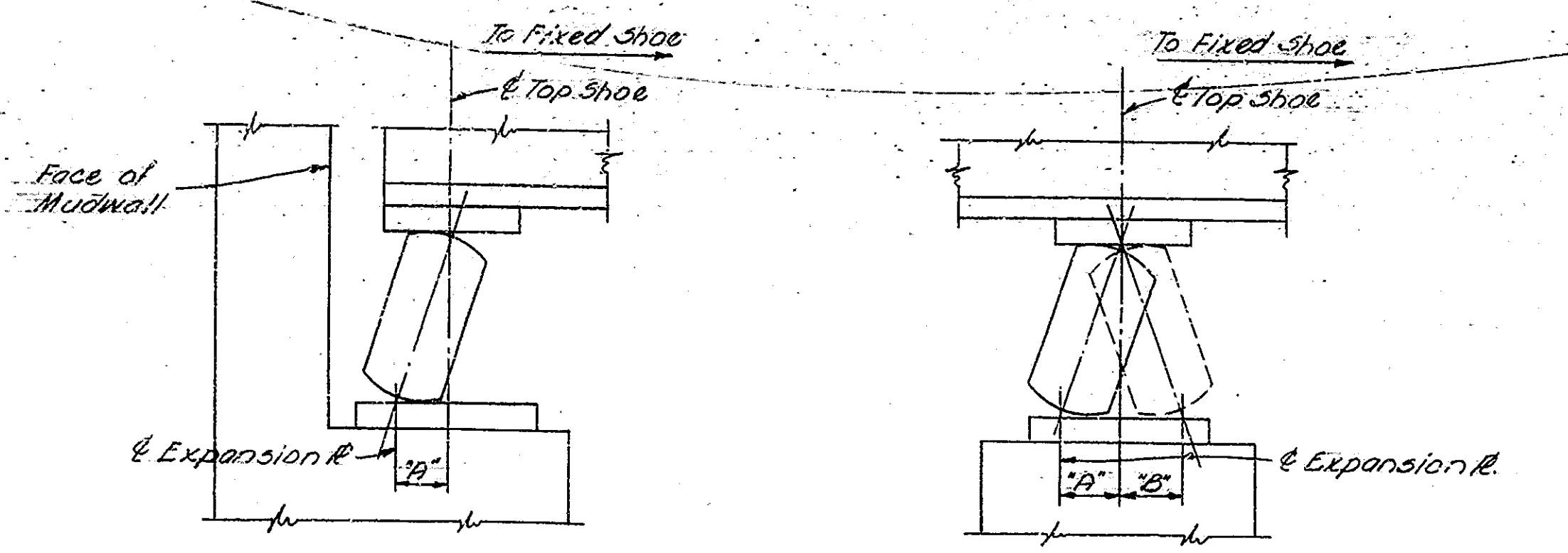
SCALE: as noted
SUBMITTED FOR APPROVAL: Tom E. Anderson, P.E.
DRAWING: 5-7 OF 13
PROJECT: 1465-4 (129) 127
BRIDGE CONTRACT NO. 2-739/
BRIDGE FILE: 1465-129-3277

DESIGNED: GEA CKD END
DRAWN: BND CKD END
TRACED: CKD

Rev. 2-14-67 Beam Elevation
Rev. 11-3-66 A35 Sheet
Rev. 5-23-65 Paint Note

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS
1465-4(129)127	5-5424	9	22

BRIDGES OVER 20' SPAN					
PUR. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.		NO.	YEAR	NO.	SHEETS
4.	IND.	I-465-4 (19)127	1965	11	22

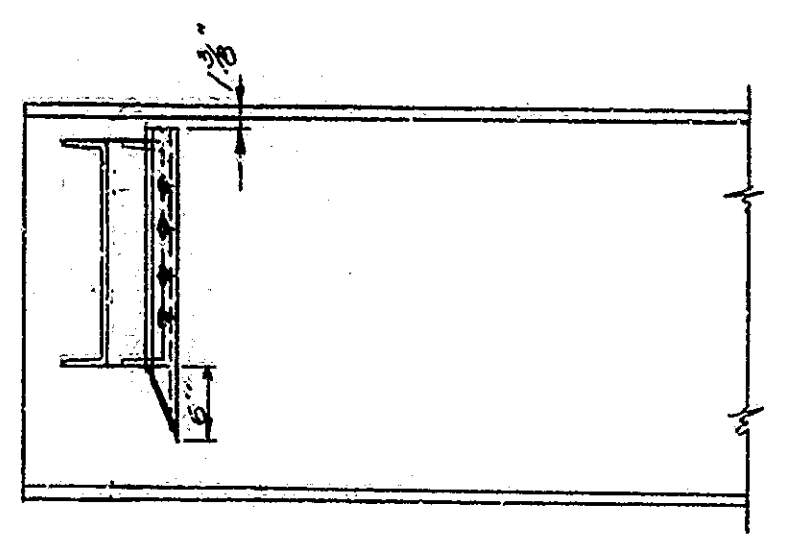
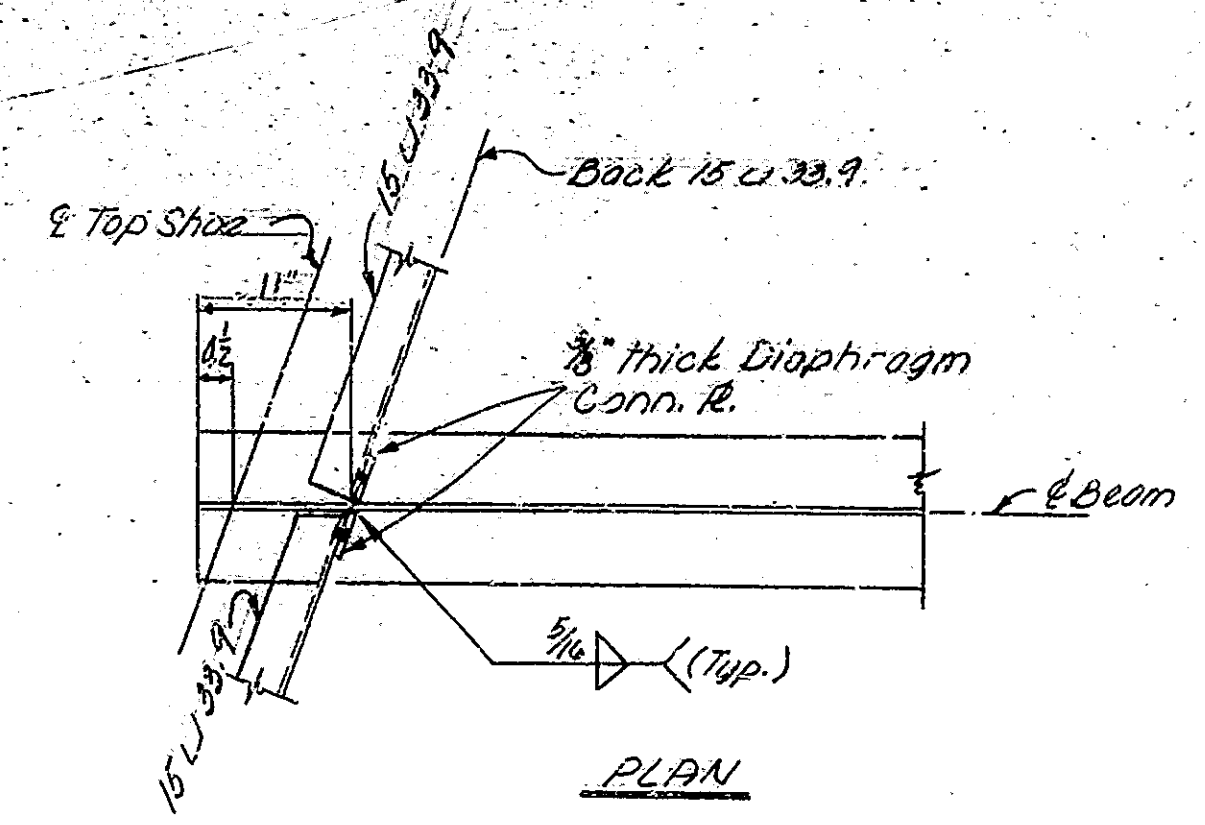


BENT 1&5 SHOE SETTING DETAIL
PIER 2&4
Not to scale

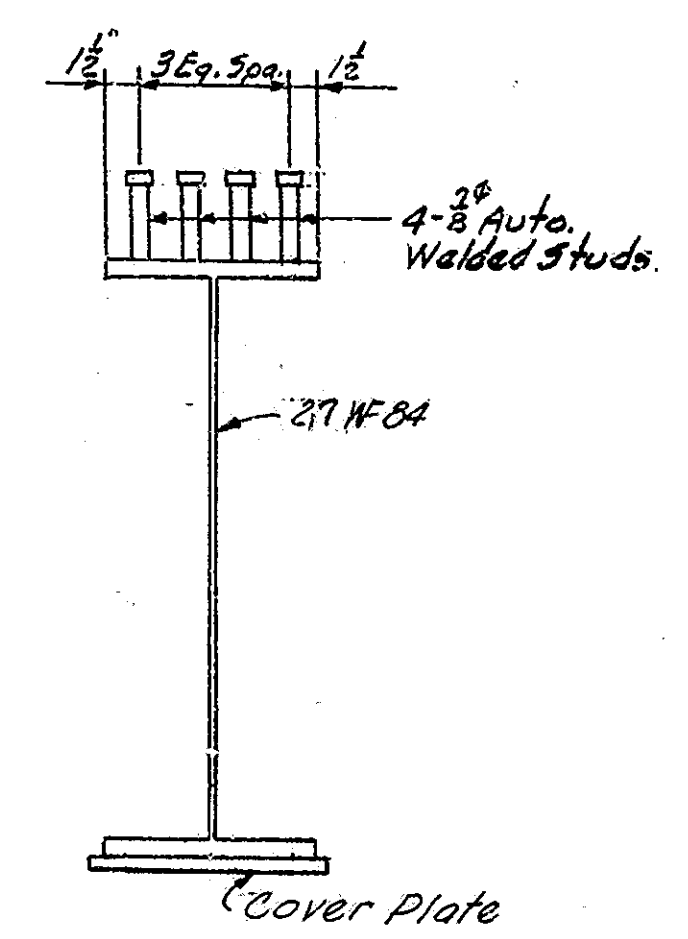
TEMP	0°	20°	40°	60°	80°	100°	120°
Dim. "A"	1"	3/8"	1/4"	1/2"	5/8"	3/4"	0

TEMP	0°	20°	40°	60°	80°	100°	120°
Dim. "A"	3/8"	3/8"	1/2"	0			
Dim. "B"				0	1/8"	3/8"	3/8"

LOCATION	Bm-1	Bm-2	Bm-3	Bm-4	Bm-5	Bm-6
Bent-1	0	0	1/4	0	1/2	0
Pier-2	0	0	1/8	1/8	1/4	1/4
Pier-3	0	1/4	0	0	1/4	0
Pier-4	1/4	1/4	1/8	1/8	0	0
Bent-5	0	1/8	0	1/4	0	0



ELEVATION
END DIAPHRAGM DETAILS
scale: 1"=1'-0"



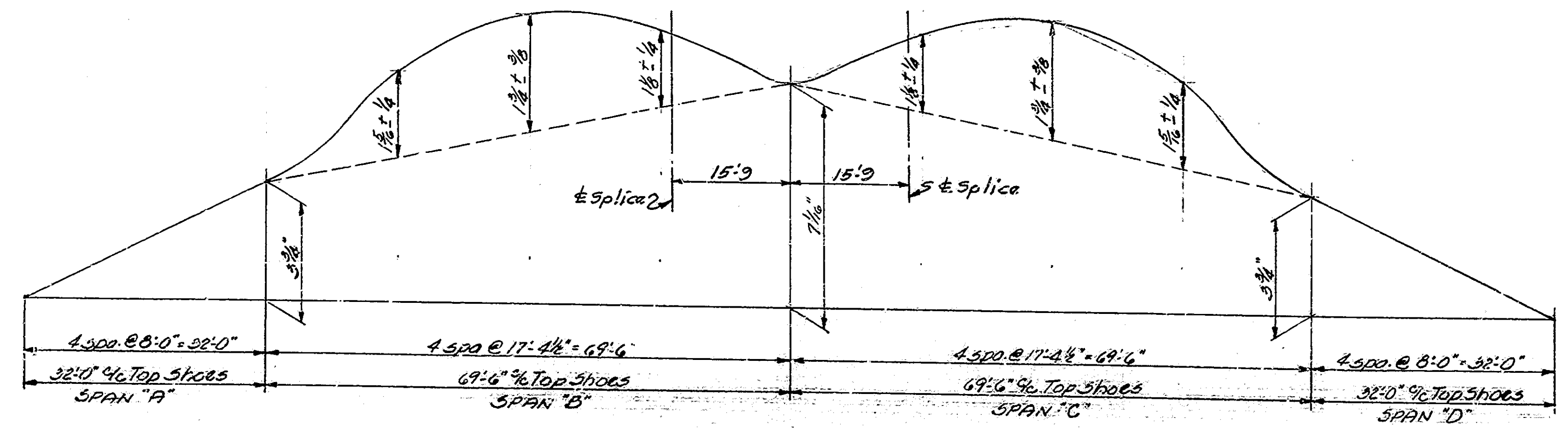
SHEAR CONNECTOR DETAIL
scale: 1/2"=1'-0"

NOTES

GENERAL NOTES: For additional notes see Drawing 5-8

REAMING: The shop plans shall indicate whether reaming or drilling is to be done in shop or field. If shop reaming or drilling is used, the beams shall be assembled in accordance with the "No Load Camber and Reaming Diagram". If the beams are shop reamed or drilled, full size drift pins shall be used in erection.

All structural steel is to be erected using full size drift pins in a minimum of fifty per cent (50%) of the flange splice holes, and fifty per cent (50%) of the web splice holes for splices "B". The elevations shall be checked before bolting or riveting field splices and the structural steel unsupported by falsework.



NO LOAD CAMBER AND REAMING DIAGRAM
Not to scale

SUPERSTRUCTURE DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: as noted
April 15, 1965
SUBMITTED FOR APPROVAL: Tom P. Howard, P.E.
DRAWING: 59 OF 13
PROJECT: I-465-4 (19) 127
CONTRACT NO. R-7391
BRIDGE FILE: I-465-129-5277

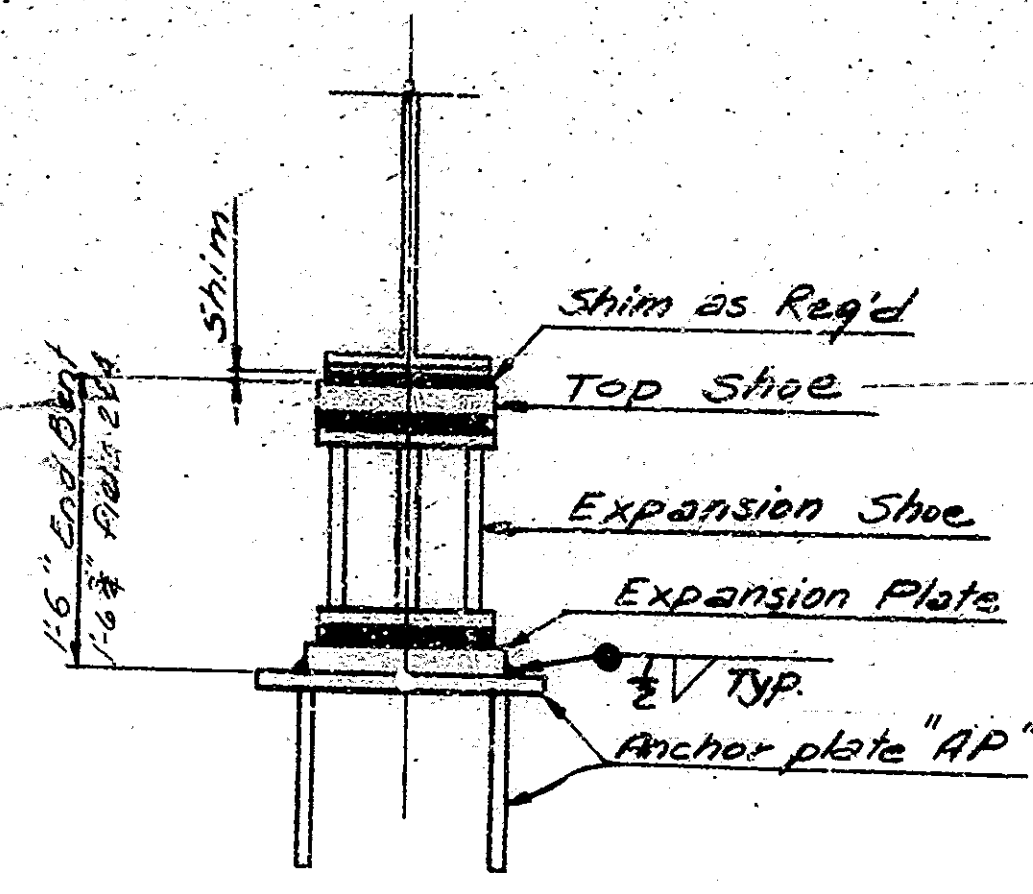
DESIGNED: GEA	CKD: SMD
DRAWN: SMD	CKD: SMD
TRACED: SMD	CKD: SMD

REV. 2-14-67 Shear Conn. Detail.
REV. 5-23-66 Notes

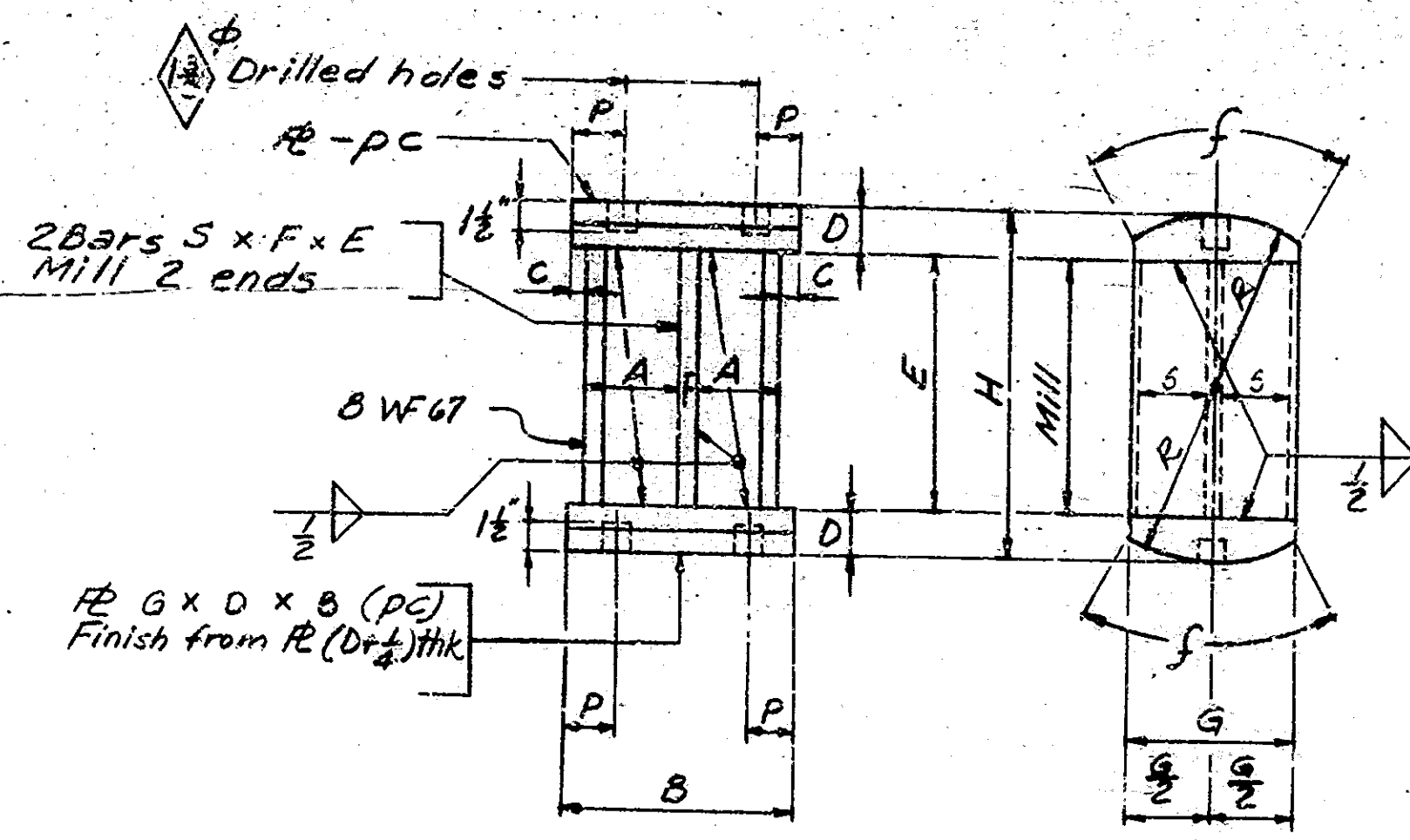
PROJECT NO.	LIVE	DEAD	WIND	PILE
I-465-4(19)127	5-3833A	11	77	1-465-193-577

BRIDGES OVER 20' SPAN				
PROJ. NO.	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1965	12	22

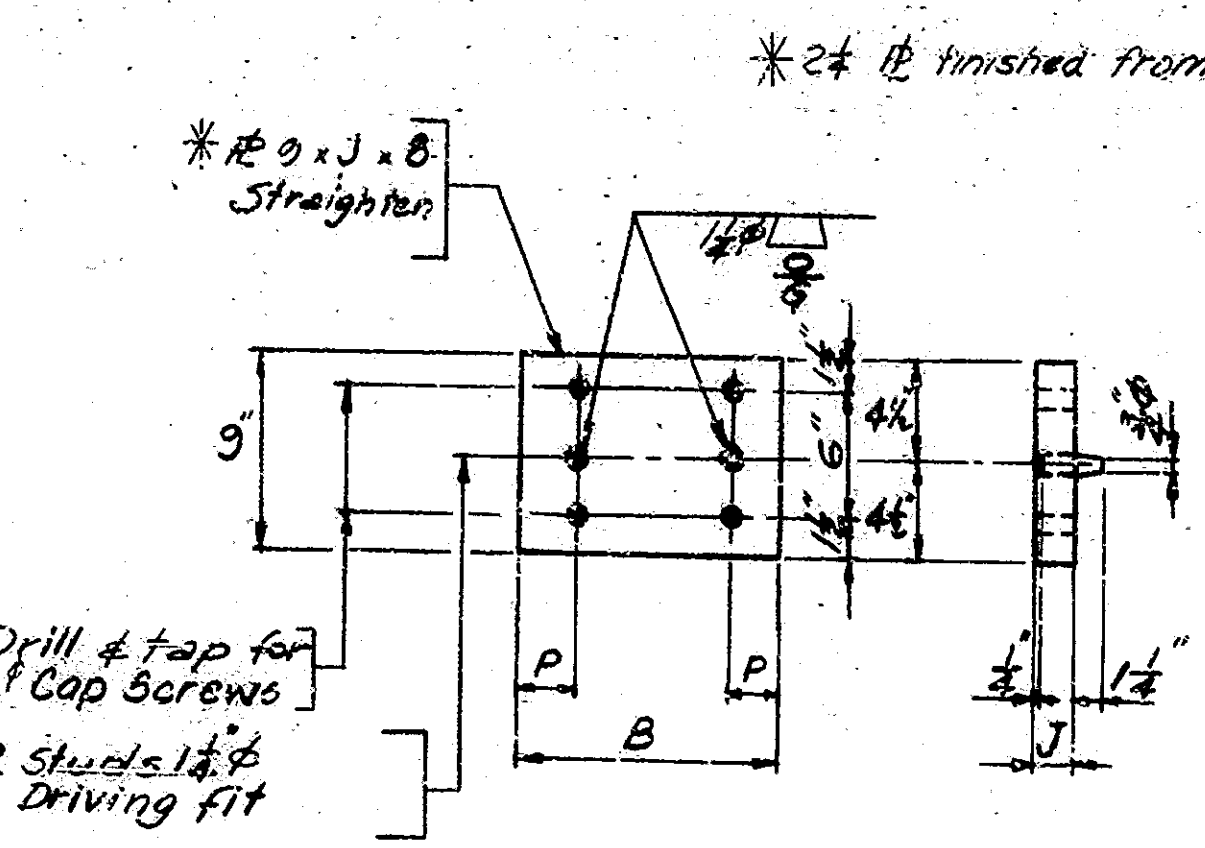
NOTE: Curved surfaces of shoes to be machined after weldments have been completed.



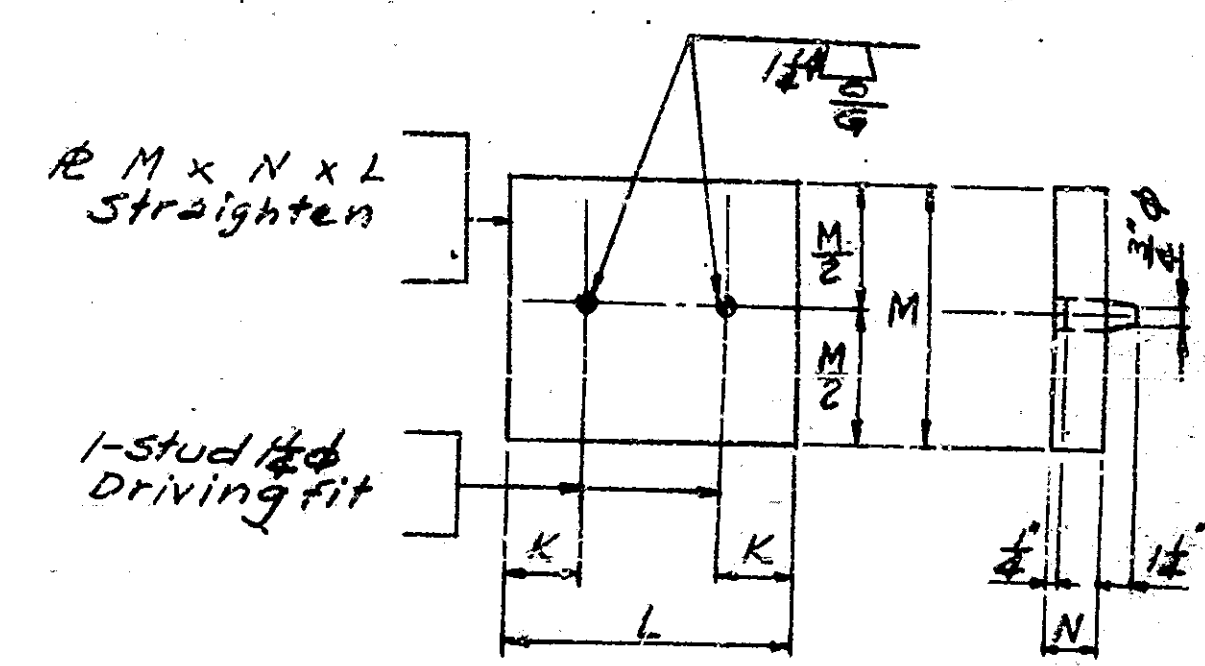
EXPANSION SHOE ASSEMBLY-TYPICAL



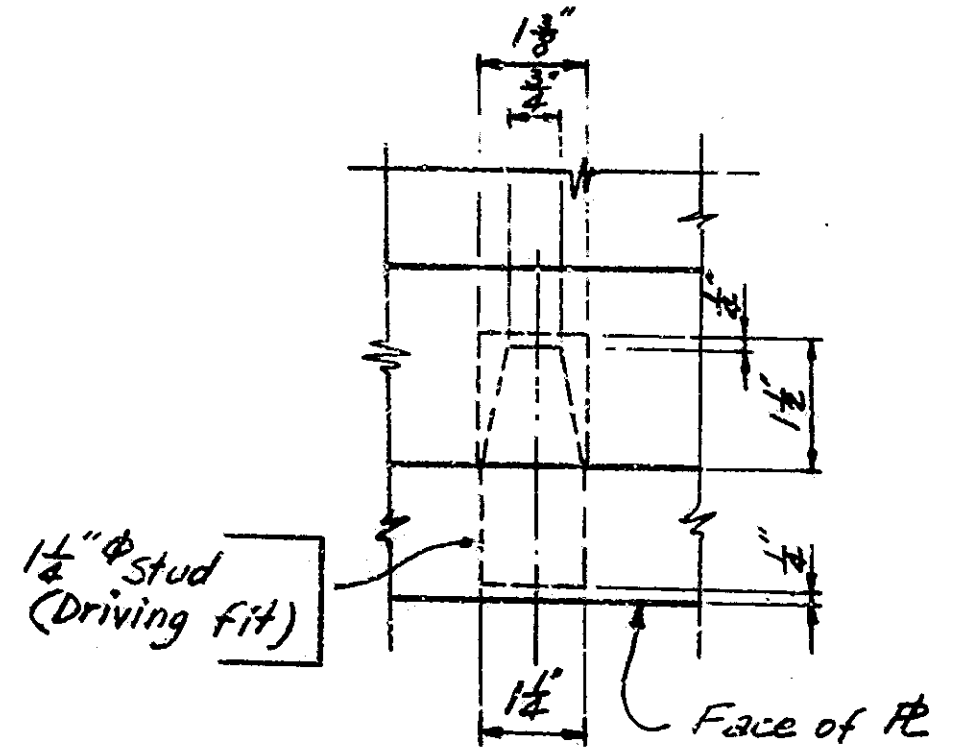
EXPANSION SHOE ES



TOP SHOE TS



EXPANSION PLATE EP

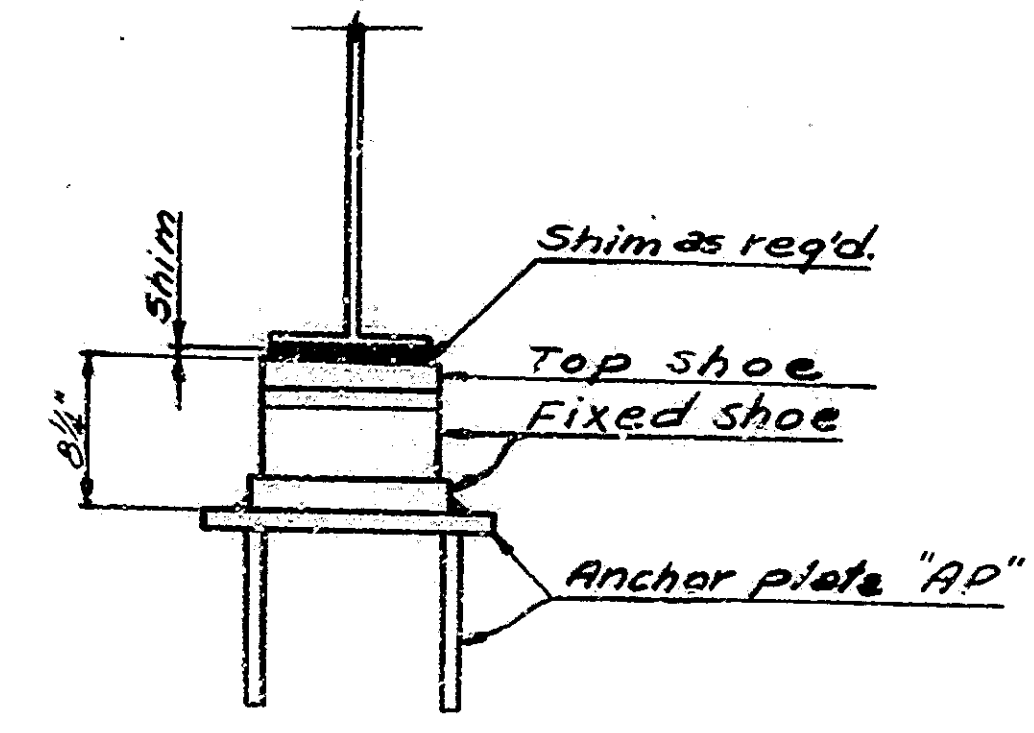


STUD DETAIL

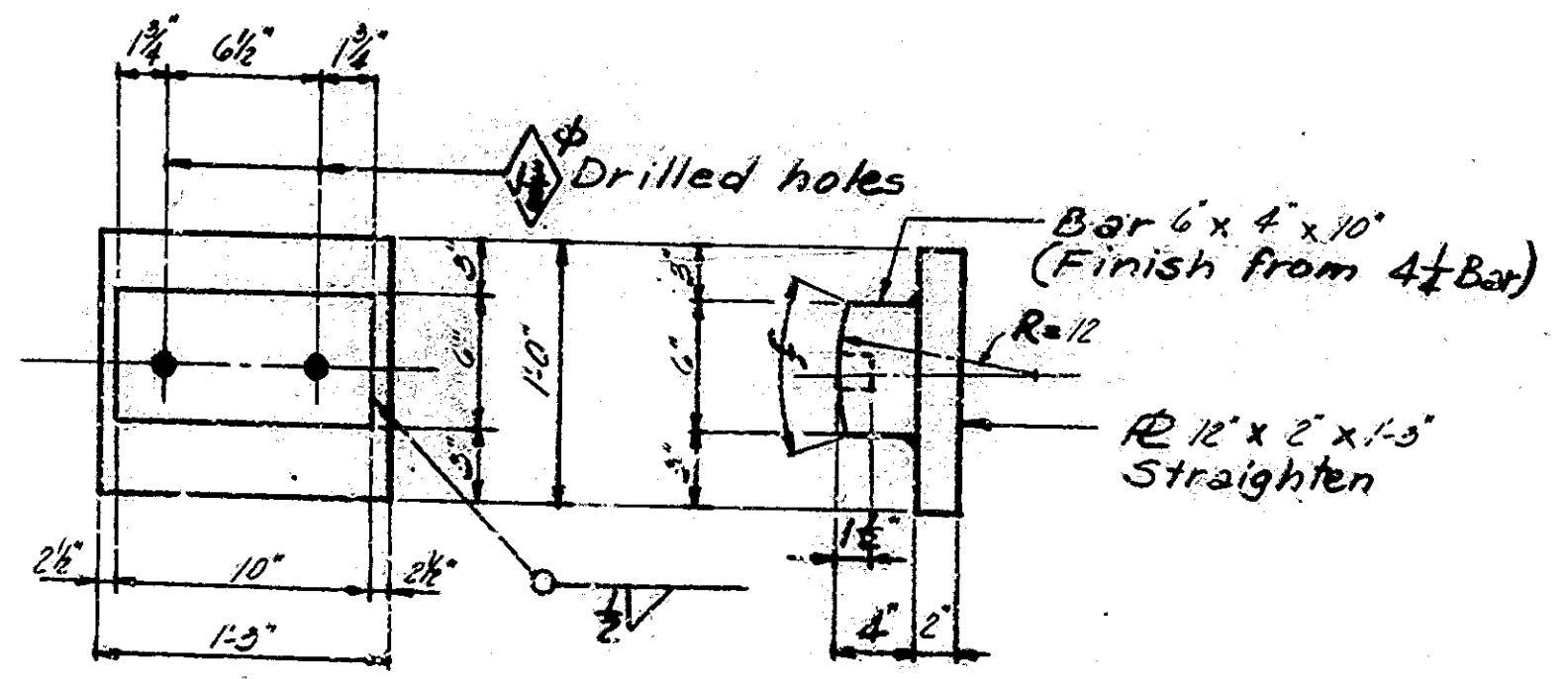
EXPANSION SHOE DIMENSIONS (inches)											
MARK	A	B	C	D	E	F	G	H	P	R	S
ES-1	4	10	1/2	2	11	1	8 1/4	15	1 1/4	7 1/2	3 1/2

TOP SHOE DIM. (in.)			
MARK	B	J	P
TS-1	10	1 1/2	1 1/4
TS-2	10	2	1 1/4
TS-3	10	2 1/4	1 1/4

EXPANSION R DIM. (in.)				
MARK	K	L	M	N
EP-1	3	12 1/2	9	1 1/2
EP-2	4 1/4	15	10	1 1/4



FIXED SHOE ASSEMBLY-TYPICAL



FIXED SHOE FS

See Drwg 58 for notes.

SUPERSTRUCTURE BEARING DETAILS
INDIANA STATE HIGHWAY COMMISSION

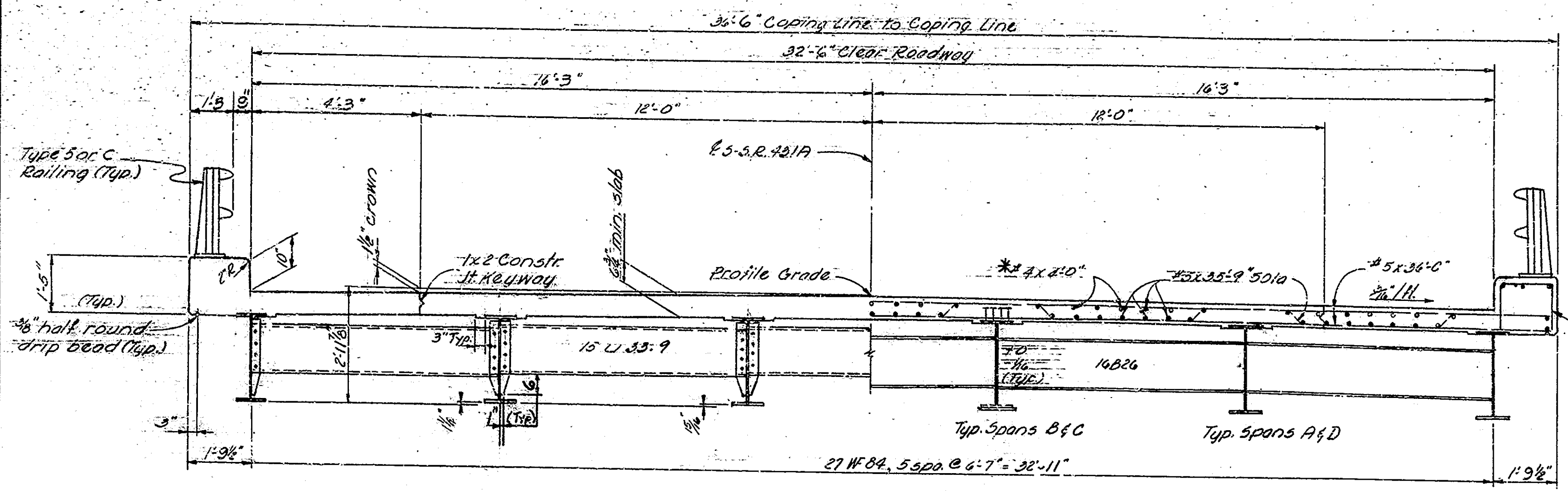
SCALE: NO SCALE April 15, 1965

SUBMITTED FOR APPROVAL: Tom P. H. Bunker, P.E.

DRAWING: 58 OF 13
PROJECT: I-465-1 (129) 127
BRIDGE CONTRACT NO. P-7391
BRIDGE FILE: I-465-129-5377

DESIGNED: GEA	CHKD: AND
DRAWN: CND	CHKD: WY
TRACED: CND	CHKD: WY

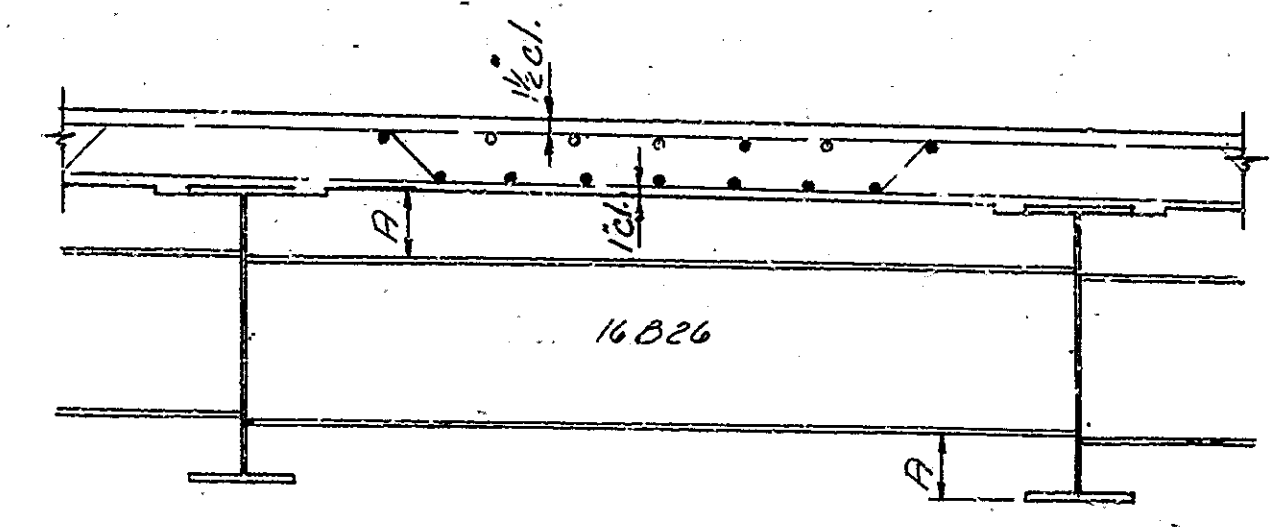
BRIDGES OVER 20' SPAN					
P.R. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
IND.		I-465-4 (29) 127	1965	13	22



HALF-SECTION SHOWING END DIAPHRAGMS and GENERAL DIMENSIONS

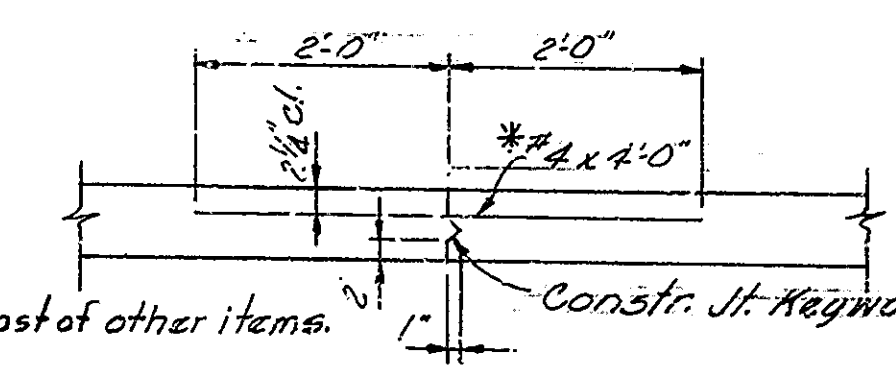
HALF-SECTION SHOWING INTERMEDIATE DIAPHRAGMS and STEEL PLACEMENT

TRANSVERSE SECTION
Scale: 1/4" = 1'-0"

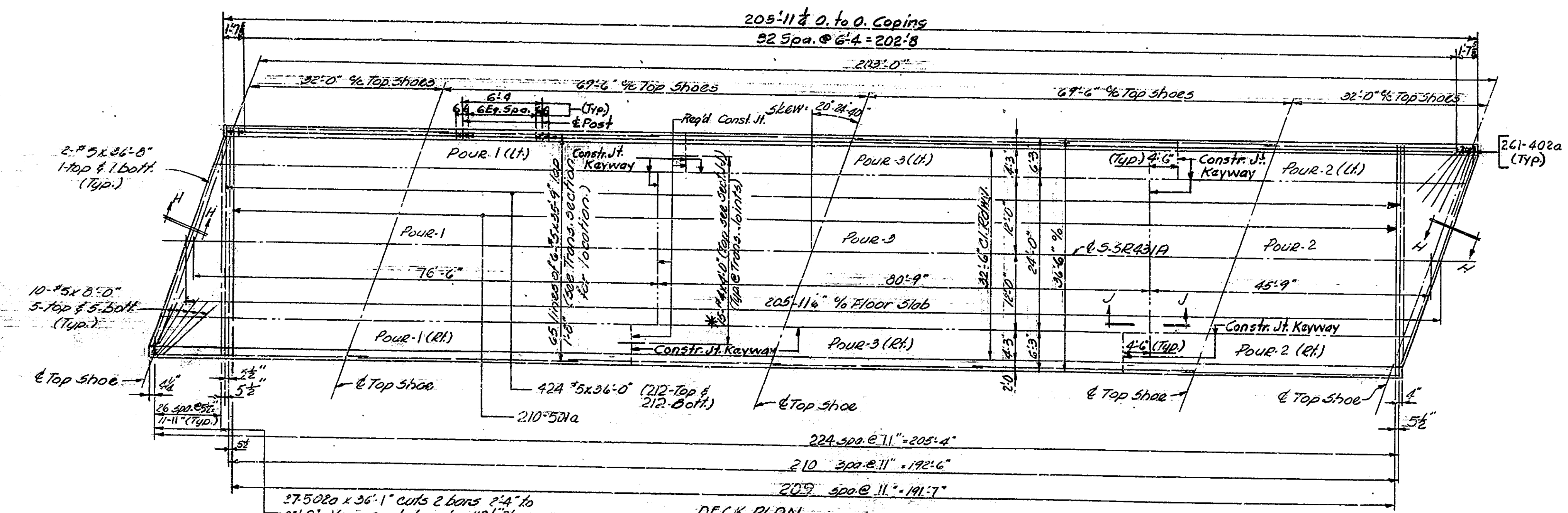


Intermediate Diaphragms to be erected so that dimension "A" is equal top and bottom (±1")

INTERMEDIATE DIAPHRAGMS
Scale: 3/4" = 1'-0"



SECTION J-J
Scale: 3/4" = 1'-0"



DECK PLAN
Scale: 3/8" = 1'-0"

DECK PLAN and TRANSVERSE SECTION

INDIANA STATE HIGHWAY COMMISSION

SCALE: as noted April 15, 1965

SUBMITTED FOR APPROVAL: Tom L. Howard, P.E.

DRAWING: 511 of 513
PROJECT: I-465-4 (29) 127
BRIDGE CONTRACT NO. R-739/
BRIDGE FILE: I-465-4-5277

NOTES

POUR SEQUENCE: Sequence of pours in the concrete slab shall be made in the order of pour numbers. All superstr. construction joints are optional unless noted and pours may be made continuous provided the pour terminates at a construction joint indicated on the plans.

For reinforcing bar notes see Bridge Standard C₁.
For additional details see Drawings 512 and 513.

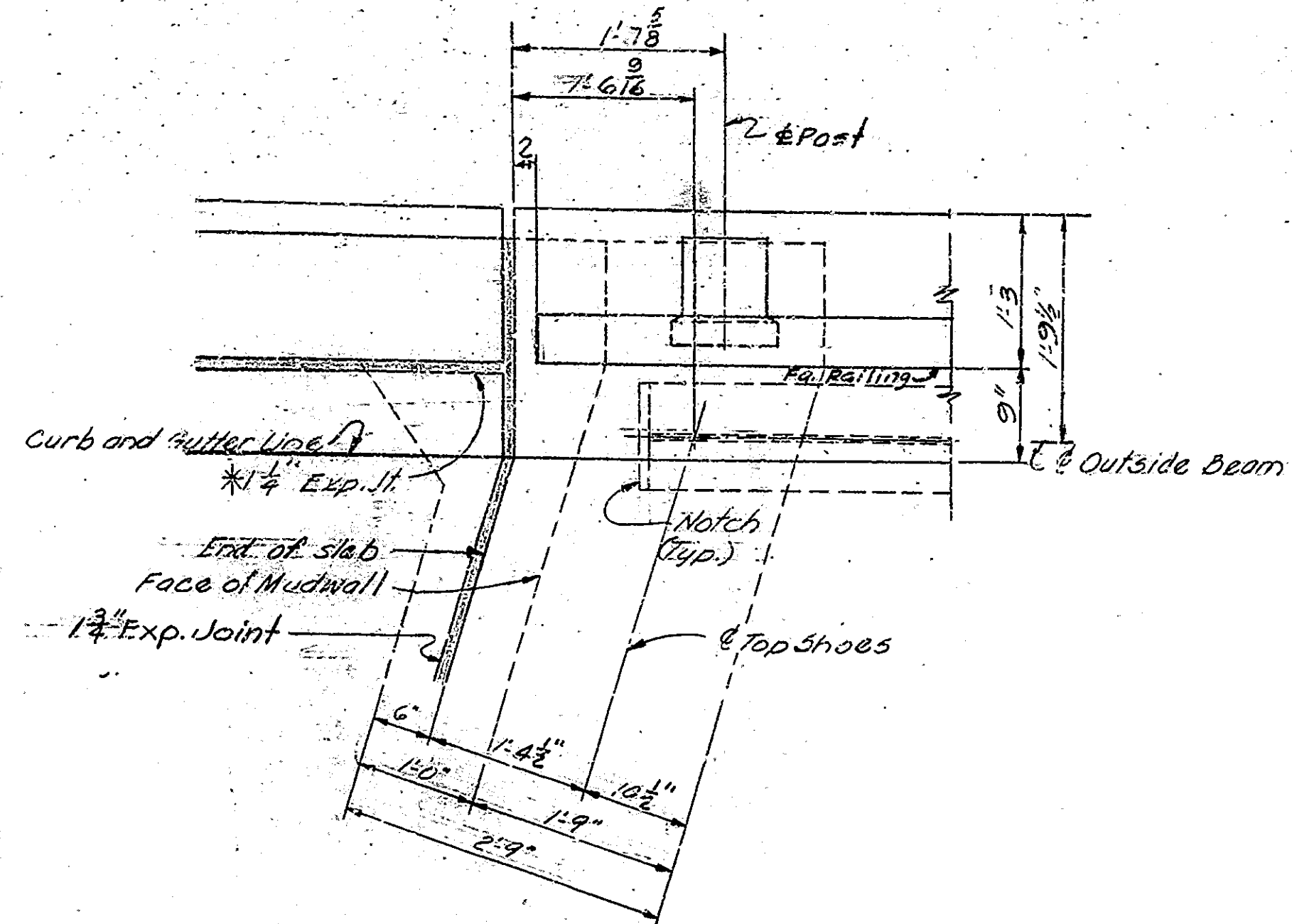
CONCRETE FORMS: After structural steel has been erected, concrete forms shall not be blocked against the expansion end of the steel in making any pours adjacent to steel spans.

Notes: See Drawing 58 for notes.

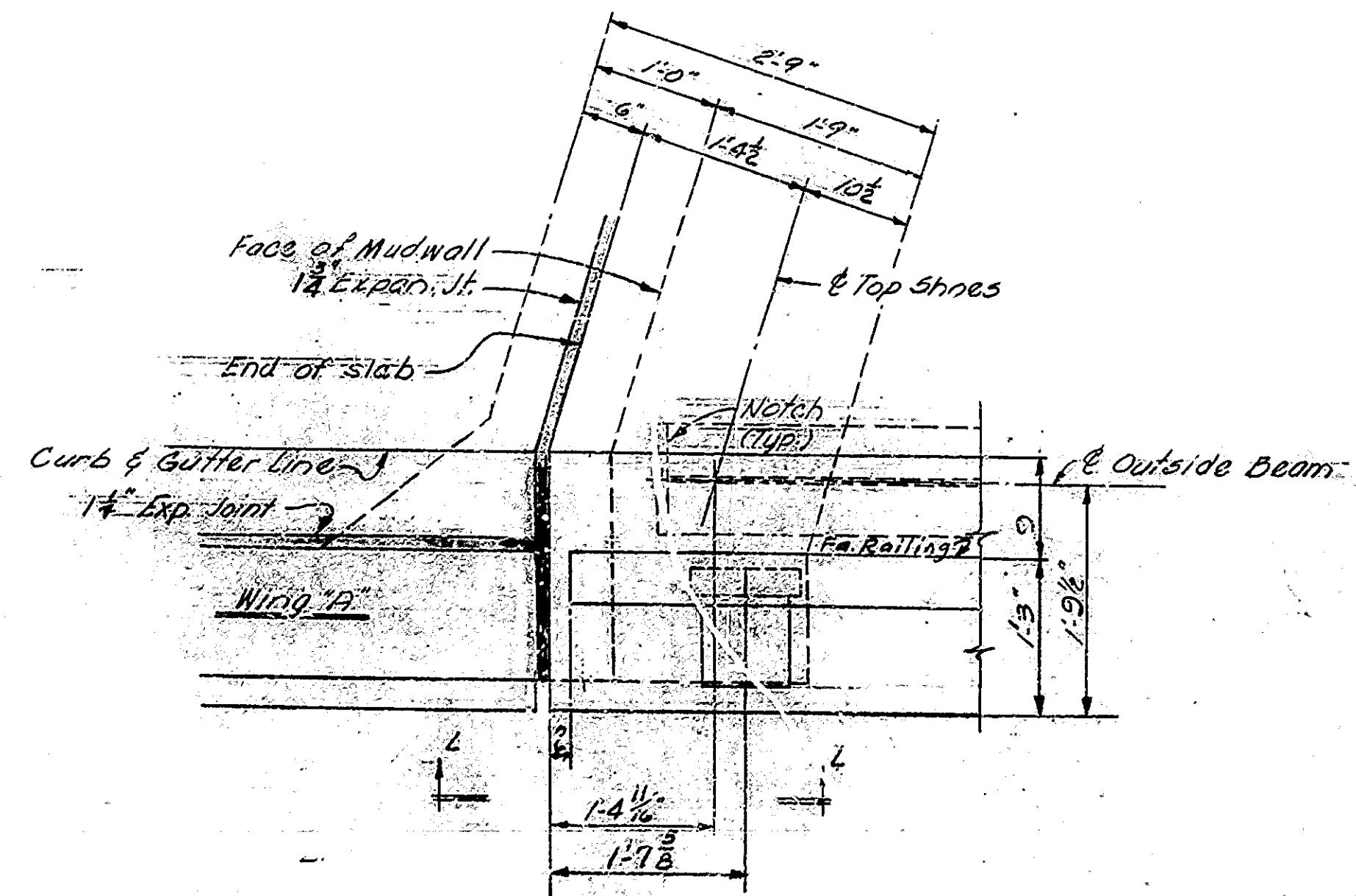
Rev. 2-18-67 Haunches, Shear Conn.
Rev. 11-3-66 Notes
Rev. 10-10-66 Pour Sequence Notes
Rev. 5-23-66 Railing

DESIGNED	GEA	CHKD	IND
DRAWN	AMB	CHKD	PND
TRACED		CHKD	

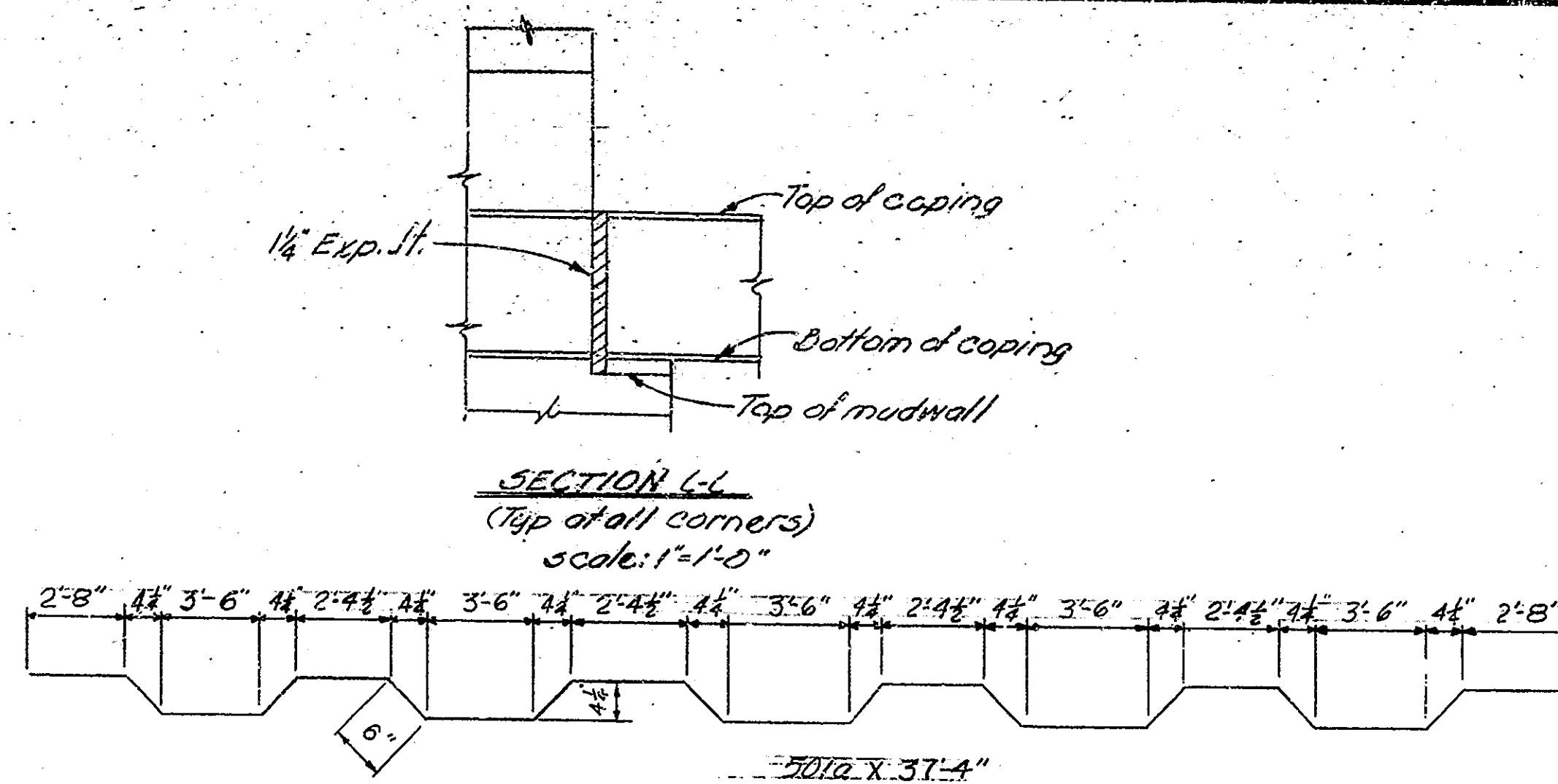
BRIDGES OVER 20' SPAN					
PUB. ROAD REG. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1465-A (129)127	1965	14	22



NOTES
 For match in slab at end of beam & reinf. bar notes see Bridge Standard C.
 *Not included in Bridge Contract

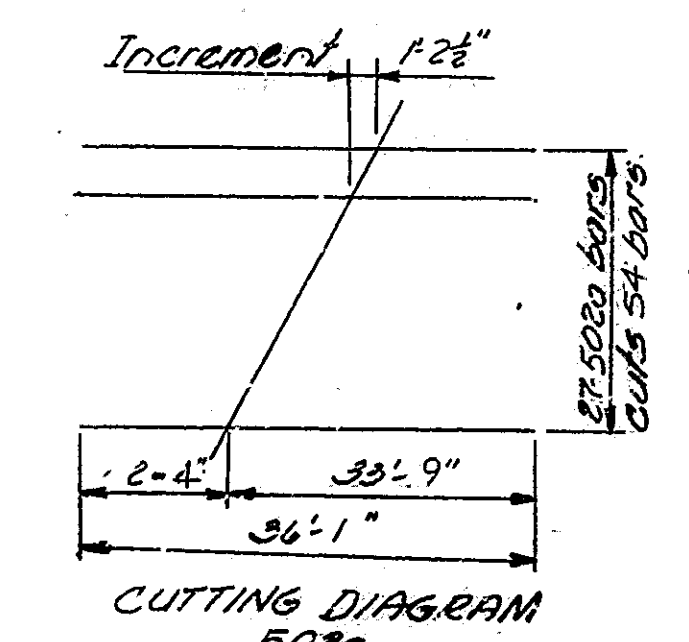
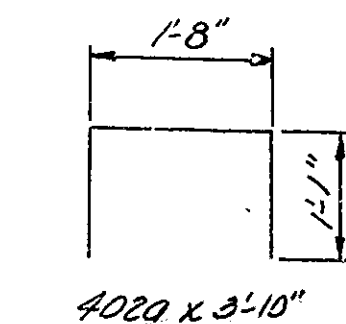
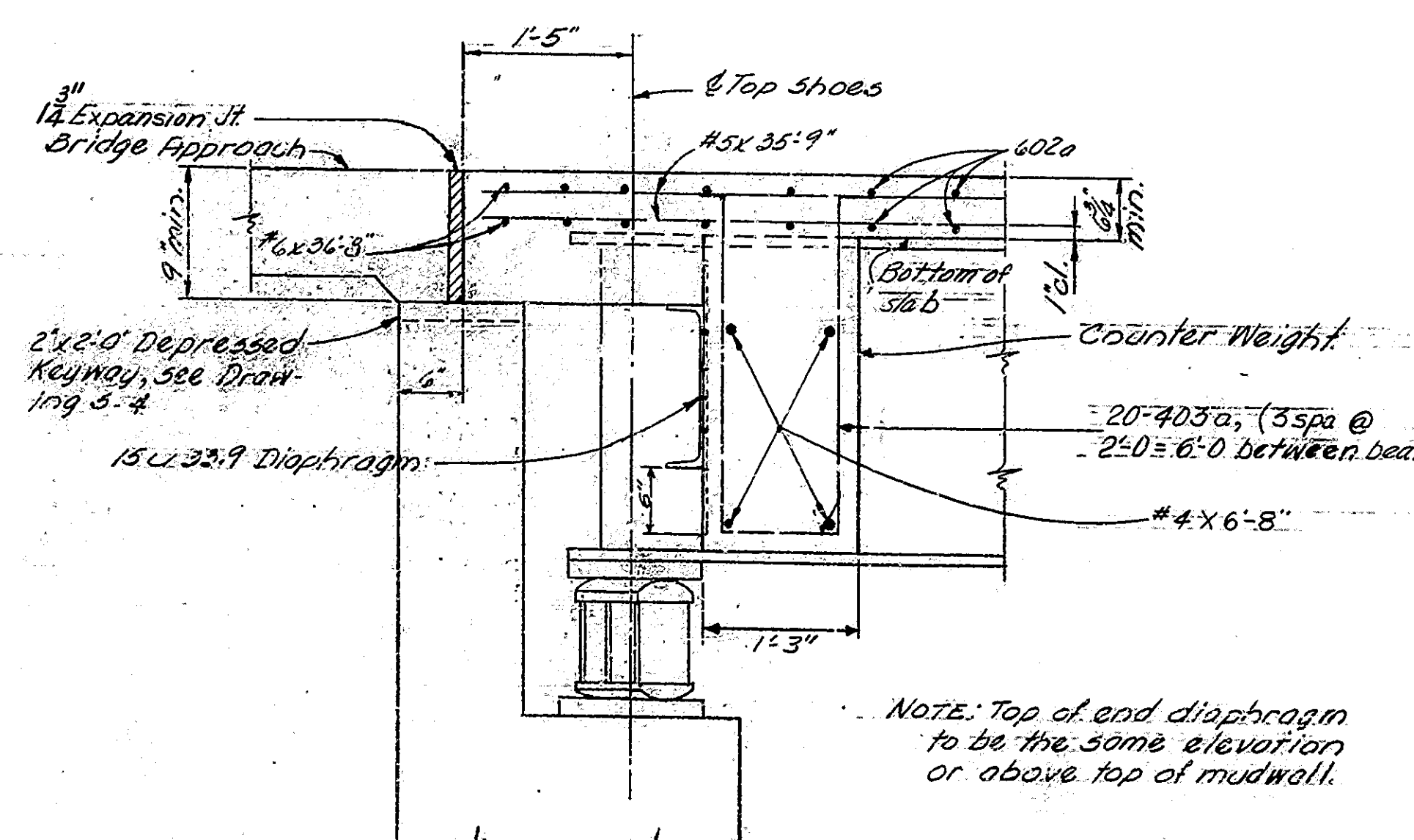


CORNER DETAILS
 scale: 1"=1'-0"



BILL-OF-MATERIALS SUPERSTRUCTURE

REINFORCING STEEL			
SIZE AND MARK	NO. OF BARS	LENGTH	WEIGHT
501a	210	37'-4"	8177
502a	54	36'-1"	2032
#5	390	36'-0"	14,542
#5	20	8'-0"	167
#5	424	36'-0"	15,920
#5	4	36'-8"	153
Total	#5		40,991
402a	522	3'-10"	1937
405a	40	6'-10"	183
#4	40	6'-8"	178
Total	#4		1698
Total Steel			42,689



CONCRETE	
Class I Superstructure	42'-0"
Pour 1	26'-4"
Pour 2	40'-4"
Pour 1 LL	15'-0"
Pour 1 RT	15'-6"
Pour 2 RT	9'-5"
Pour 2 RT	9'-1"
Pour 3 (L&R) @ 15'-3"	30'-6"
Total Class I	188'-6"

MISCELLANEOUS	
Aluminum Railing (Type B)	
or Steel Railing (Type C)	411.8 LF

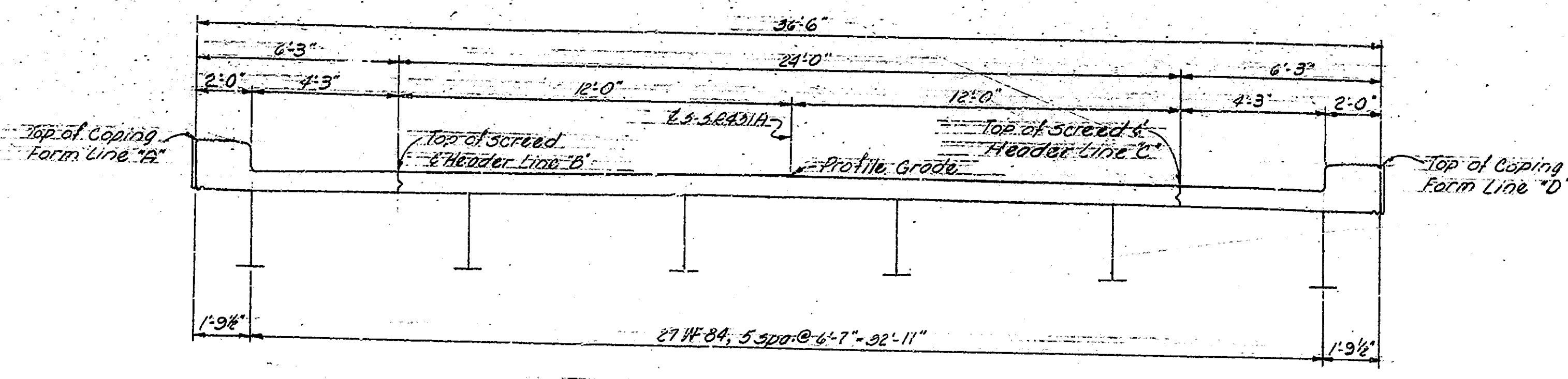
INDIANA STATE HIGHWAY COMMISSION

SCALE: as noted
 April 15, 1965
 SUBMITTED FOR APPROVAL: *Tom P. DeRudder, P.E.*
 DRAWING: 312 OF 13
 PROJECT: 1-465-A (129) 127
 BRIDGE CONTRACT NO. R-7391
 BRIDGE FILE: 1-465-129-5217

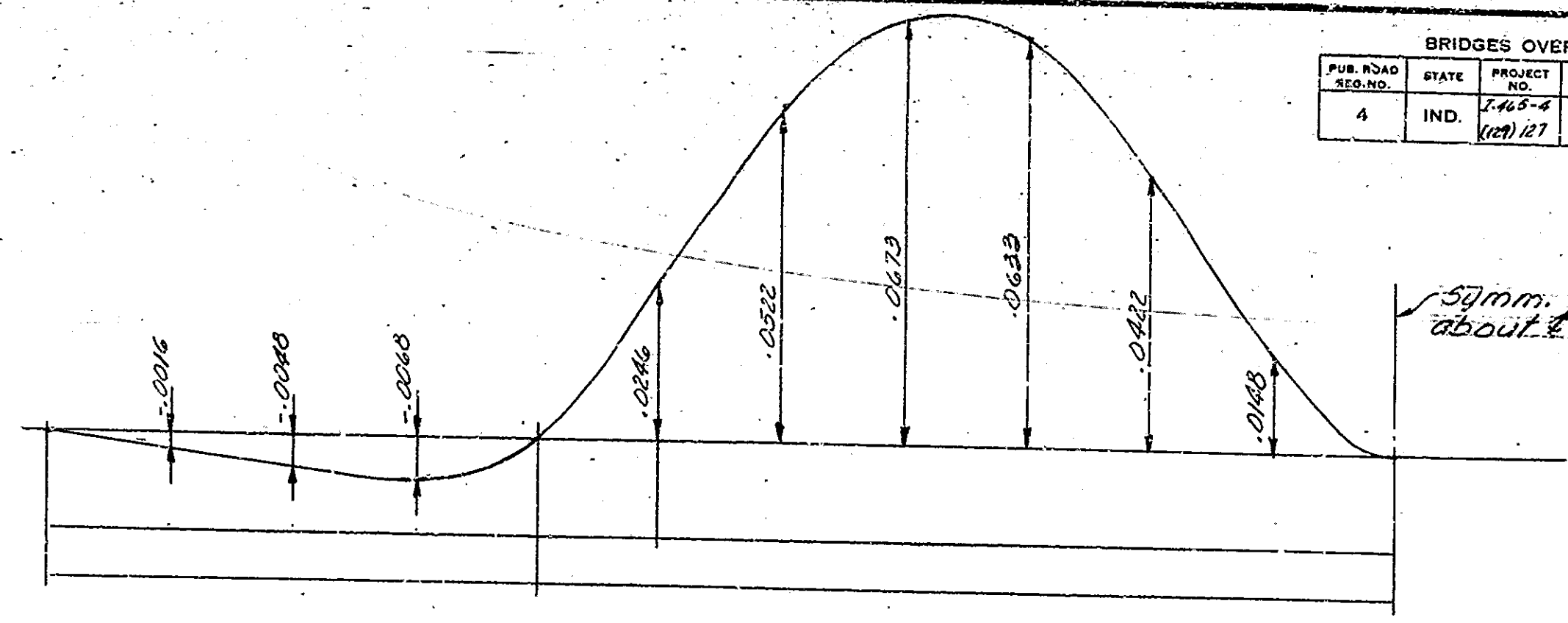
DESIGNED: GEA	CHKD: IND
DRAWN: GEA	CHKD: IND
TRACED: GEA	CHKD: IND

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-465-129-127	3065-A	14	22	1-465-129-3471

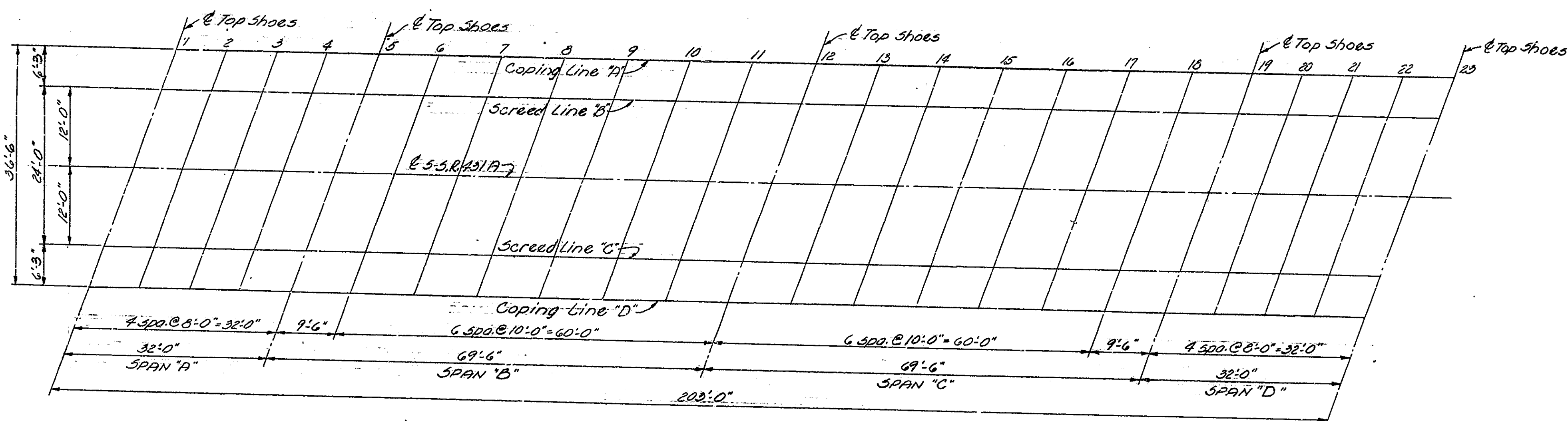
BRIDGES OVER 20' SPAN					
PUR. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.		NO.	YEAR	NO.	SHEETS
4	IND	I-465-4 (12) 127	1965	15	22



CROSS SECTION FOR SCREEDS
Scale: 3/8" = 1'-0"



CONCRETE D.L. DEFLECTION (feet)
Scales: Horiz. 1" = 10'-0"
Vert. 1" = 0.02'



PLAN OF SCREEDS
Scale: 3/8" = 1'-0"

- GENERAL PROCEDURE
- After the structural steel is erected, adjust the superstructure longitudinally so that the distance from the centerline of top shoe to the face of midwall is equal at Bents 1 and 5.
 - With the superstructure in the adjusted position called for in (1) above, weld the anchor plates for the fixed shoes at Bent 3.
 - Adjust the expansion plates under each expansion shoe in accordance with Dimension "A" or "B" shown on Drawing 59, for the prevailing temperature. Note that Dimension "A" is always the distance from a vertical line through the centerline of top shoe in a direction away from the fixed shoe. Weld the anchor plates.
 - After the shoes are set, take elevations at all screed points on top of adjacent beams. Enter these elevations in Table of Screed Elevations. Subtract these elevations from the tabulated elevations and use the resulting dimension as the height for setting the screed or coping form above that point. This dimension remains constant regardless of how much or in what order the concrete is poured. Do not set screeds or coping forms by levelling.
 - No concrete in the floor is to be poured until the above operations are completed.
- GENERAL NOTES: See Drawing 5-B for notes.

LINE	POINT	TABLE OF SCREED ELEVATIONS																						
		SPAN "A"				SPAN "B"								SPAN "C"								SPAN "D"		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A	Elev. @ top of coping form	802.175	802.255	802.330	802.395	802.465	802.550	802.635	802.695	802.720	802.720	802.715	802.685	802.690	802.690	802.675	802.630	802.555	802.460	802.355	802.275	802.200	802.115	802.020
	H																							
B	Elev. @ top of screed form	801.385	801.470	801.545	801.615	801.685	801.775	801.860	801.920	801.950	801.955	801.940	801.925	801.930	801.935	801.920	801.880	801.810	801.710	801.610	801.535	801.460	801.375	801.285
	H																							
C	Elev. @ top of screed form	801.285	801.375	801.440	801.525	801.610	801.710	801.810	801.880	801.920	801.925	801.930	801.925	801.940	801.955	801.950	801.920	801.860	801.775	801.685	801.615	801.545	801.470	801.385
	H																							
D	Elev. @ top of coping form	802.020	802.115	802.200	802.275	802.355	802.460	802.555	802.630	802.675	802.690	802.685	802.705	802.720	802.720	802.695	802.635	802.550	802.465	802.395	802.330	802.255	802.175	
	H																							

NOTE:
"A" is the distance from top of beam to the top of coping form or screed form.

DESIGNED: GEA CKD JMD
DRAWN: BOB CKD JMD
TRACED: CKD

SCREED DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: as noted
SUBMITTED FOR APPROVAL: Tom J. [Signature], P.E.
APR 17 1965
DRAWING: 513 OF 13
PROJECT: I-465-4 (12) 127
BRIDGE CONTRACT NO. R-7391
BRIDGE FILE: I-465-129-3277

Rev. 2-14-67 Dim.
Rev. 5-23-66 Dim.

