

CONTRACTING R-7118

INDEX

PROJECT	SECTION	DESCRIPTION	STATION	CONTRACT
I-70-3(24)65	I-70-66-5184	CONTINUOUS REINFORCED CONCRETE GIRDER	3 SPANS: 31'-3", 37'-6", 31'-3" SKEW 15° 00' RT	CLARK'S CREEK 146+35.0 R-7118

SHEET NO.	SHEET DESIGNATION	SUBJECT	D.P.H. APPROVAL
1	One Sheet	Title Sheet	
2	Standard Sheet	Std. Divided Lane Section for I.A. Interstate Projects	
3	Road Sheet No. 10	Road Plan and Profile - Line A (Road Proj. 70-3(24)65)	
4	Road Sheet No. 20	Channel Change (Road Proj. 70-3(24)65)	
5	One Sheet	Soil Borings	
6	C1	Layout	
7	C2	General Plan	
8	C3	Bents No. 1 & No. 4 Details & Bill of Materials	
9	C4	Piers No. 2 & No. 3 Details & Bill of Materials	
10	C5	Superstructure Details	
11	C6	Superstructure Details	
12	C7	Superstructure Bill of Materials	
13	One Sheet	Summary	
13A	C8	General Plan (West Bound Structure)	
13B	C9	Bent #1 & #4 (West Bound Structure)	
13C	C10	Pier #2 & #3 (West Bound Structure)	
13D	C11	Superstructure Details (West Bound Structure)	
13E	C12	Superstructure Details (West Bound Structure)	
13F	C13	Superstructure Details (West Bound Structure)	
13G		Summary (West Bound Structure)	

STATE OF INDIANA
INDIANA STATE HIGHWAY COMMISSION

BRIDGE PLANS

FOR SPANS OVER 20 FEET

ON

INTERSTATE HIGHWAY 70 SECTION 3

I-PROJECT NO. 70-3(24)65

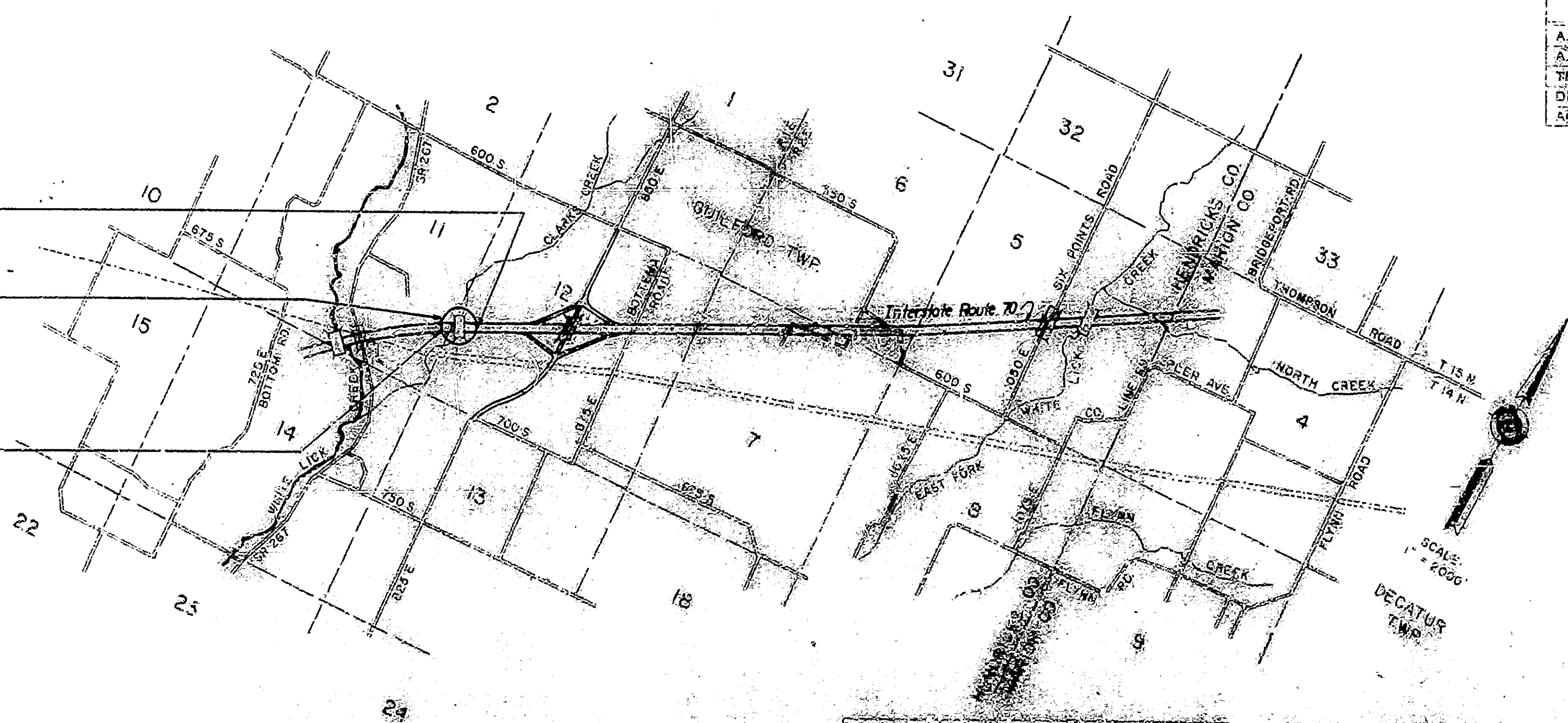
Beginning at a point, the intersection of the E of proposed I-70 and the N-S Section Line between Sections 11-12, thence northwesterly 108.7 feet on and along the said E to a point, said point being the South Structure Limits, thence northeasterly 100.6 feet on and along said E to a point, said point being the North Structure Limits, all in Section 12, T.14N., R.1E., Guilford Township, Hendricks County, Indiana.

Roadway Length = 0.000 mi.
Bridge Length = 0.019 mi.
Total Length = 0.019 mi.
Max. Grade = 0.20 %

END STRUCTURE LIMITS
I-70-3(24)65 STA. 146+85.26

STRUCTURE I-70-66-5184 - TWIN STR.
3 SPANS - 31'-3", 37'-6", 31'-3"
SKEW 15° 00' RT
CONT. REINF. CONC. GIRDER
& STA. 146+35.0 - LINE A

BEGIN STRUCTURE LIMITS
I-70-3(24)65 STA. 145+84.74



INDEX - CONTINUED
STANDARD DRAWINGS

SHEET NO.	SHEET DESIGNATION	SUBJECT	DATE	BY
14	BRIDGE STD. 1	STANDARD CONC. CURBS	8-16-63	R. J. B. 246
14A	BRIDGE STD. 2	EXPANSION JOINT	9-7-63	R. J. B. 246
14B	BRIDGE STD. 3	STANDARD CONC. CURBS		
14C	BRIDGE STD. 4	STANDARD CONC. CURBS		
14D	BRIDGE STD. 5	STANDARD CONC. CURBS		
14E	BRIDGE STD. 6	STANDARD CONC. CURBS		
14F	BRIDGE STD. 7	STANDARD CONC. CURBS		
14G	BRIDGE STD. 8	STANDARD CONC. CURBS		
14H	BRIDGE STD. 9	STANDARD CONC. CURBS		
14I	BRIDGE STD. 10	STANDARD CONC. CURBS		
14J	BRIDGE STD. 11	STANDARD CONC. CURBS		
14K	BRIDGE STD. 12	STANDARD CONC. CURBS		
14L	BRIDGE STD. 13	STANDARD CONC. CURBS		
14M	BRIDGE STD. 14	STANDARD CONC. CURBS		
14N	BRIDGE STD. 15	STANDARD CONC. CURBS		
14O	BRIDGE STD. 16	STANDARD CONC. CURBS		
14P	BRIDGE STD. 17	STANDARD CONC. CURBS		
14Q	BRIDGE STD. 18	STANDARD CONC. CURBS		
14R	BRIDGE STD. 19	STANDARD CONC. CURBS		
14S	BRIDGE STD. 20	STANDARD CONC. CURBS		
14T	BRIDGE STD. 21	STANDARD CONC. CURBS		
14U	BRIDGE STD. 22	STANDARD CONC. CURBS		
14V	BRIDGE STD. 23	STANDARD CONC. CURBS		
14W	BRIDGE STD. 24	STANDARD CONC. CURBS		
14X	BRIDGE STD. 25	STANDARD CONC. CURBS		
14Y	BRIDGE STD. 26	STANDARD CONC. CURBS		
14Z	BRIDGE STD. 27	STANDARD CONC. CURBS		
15	BRIDGE STD. 28	STANDARD CONC. CURBS		
16	BRIDGE STD. 29	STANDARD CONC. CURBS		
17	BRIDGE STD. 30	STANDARD CONC. CURBS		
17A	BRIDGE STD. 31	STANDARD CONC. CURBS		
17B	BRIDGE STD. 32	STANDARD CONC. CURBS		
17C	BRIDGE STD. 33	STANDARD CONC. CURBS		
17D	BRIDGE STD. 34	STANDARD CONC. CURBS		
17E	BRIDGE STD. 35	STANDARD CONC. CURBS		
17F	BRIDGE STD. 36	STANDARD CONC. CURBS		
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17I	BRIDGE STD. 39	STANDARD CONC. CURBS		
17J	BRIDGE STD. 40	STANDARD CONC. CURBS		
17K	BRIDGE STD. 41	STANDARD CONC. CURBS		
17L	BRIDGE STD. 42	STANDARD CONC. CURBS		
17M	BRIDGE STD. 43	STANDARD CONC. CURBS		
17N	BRIDGE STD. 44	STANDARD CONC. CURBS		
17O	BRIDGE STD. 45	STANDARD CONC. CURBS		
17P	BRIDGE STD. 46	STANDARD CONC. CURBS		
17Q	BRIDGE STD. 47	STANDARD CONC. CURBS		
17R	BRIDGE STD. 48	STANDARD CONC. CURBS		
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17T	BRIDGE STD. 50	STANDARD CONC. CURBS		
17U	BRIDGE STD. 51	STANDARD CONC. CURBS		
17V	BRIDGE STD. 52	STANDARD CONC. CURBS		
17W	BRIDGE STD. 53	STANDARD CONC. CURBS		
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17Y	BRIDGE STD. 55	STANDARD CONC. CURBS		
17Z	BRIDGE STD. 56	STANDARD CONC. CURBS		
18	BRIDGE STD. 57	STANDARD CONC. CURBS		
19	BRIDGE STD. 58	STANDARD CONC. CURBS		
20	BRIDGE STD. 59	STANDARD CONC. CURBS		
21	BRIDGE STD. 60	STANDARD CONC. CURBS		
21A	BRIDGE STD. 61	STANDARD CONC. CURBS		
21B	BRIDGE STD. 62	STANDARD CONC. CURBS		
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21D	BRIDGE STD. 64	STANDARD CONC. CURBS		
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21F	BRIDGE STD. 66	STANDARD CONC. CURBS		
21G	BRIDGE STD. 67	STANDARD CONC. CURBS		
21H	BRIDGE STD. 68	STANDARD CONC. CURBS		
21I	BRIDGE STD. 69	STANDARD CONC. CURBS		
21J	BRIDGE STD. 70	STANDARD CONC. CURBS		
21K	BRIDGE STD. 71	STANDARD CONC. CURBS		
21L	BRIDGE STD. 72	STANDARD CONC. CURBS		
21M	BRIDGE STD. 73	STANDARD CONC. CURBS		
21N	BRIDGE STD. 74	STANDARD CONC. CURBS		
21O	BRIDGE STD. 75	STANDARD CONC. CURBS		
21P	BRIDGE STD. 76	STANDARD CONC. CURBS		
21Q	BRIDGE STD. 77	STANDARD CONC. CURBS		
21R	BRIDGE STD. 78	STANDARD CONC. CURBS		
21S	BRIDGE STD. 79	STANDARD CONC. CURBS		
21T	BRIDGE STD. 80	STANDARD CONC. CURBS		
21U	BRIDGE STD. 81	STANDARD CONC. CURBS		
21V	BRIDGE STD. 82	STANDARD CONC. CURBS		
21W	BRIDGE STD. 83	STANDARD CONC. CURBS		
21X	BRIDGE STD. 84	STANDARD CONC. CURBS		
21Y	BRIDGE STD. 85	STANDARD CONC. CURBS		
21Z	BRIDGE STD. 86	STANDARD CONC. CURBS		
22	BRIDGE STD. 87	STANDARD CONC. CURBS		
23	BRIDGE STD. 88	STANDARD CONC. CURBS		
24	BRIDGE STD. 89	STANDARD CONC. CURBS		
25	BRIDGE STD. 90	STANDARD CONC. CURBS		
26	BRIDGE STD. 91	STANDARD CONC. CURBS		
27	BRIDGE STD. 92	STANDARD CONC. CURBS		
28	BRIDGE STD. 93	STANDARD CONC. CURBS		
29	BRIDGE STD. 94	STANDARD CONC. CURBS		
30	BRIDGE STD. 95	STANDARD CONC. CURBS		
31	BRIDGE STD. 96	STANDARD CONC. CURBS		
32	BRIDGE STD. 97	STANDARD CONC. CURBS		
33	BRIDGE STD. 98	STANDARD CONC. CURBS		
34	BRIDGE STD. 99	STANDARD CONC. CURBS		
35	BRIDGE STD. 100	STANDARD CONC. CURBS		

TRAFFIC DATA

A.O.T. (1961)	17,822	V.P.D.
A.O.T. (1981 PROJECTED)	44,506	V.P.D.
TRUCKS	9	%
DESIGN SPEED	70	M.P.H.
ACCESS CONTROL	FULL	

PLANS PREPARED BY
SUBMITTED BY
FINK, ROBERT
CONSULTING
SEAL

REGISTERED
No. 1100C
STATE OF
INDIANA
PROFESSIONAL ENGINEER

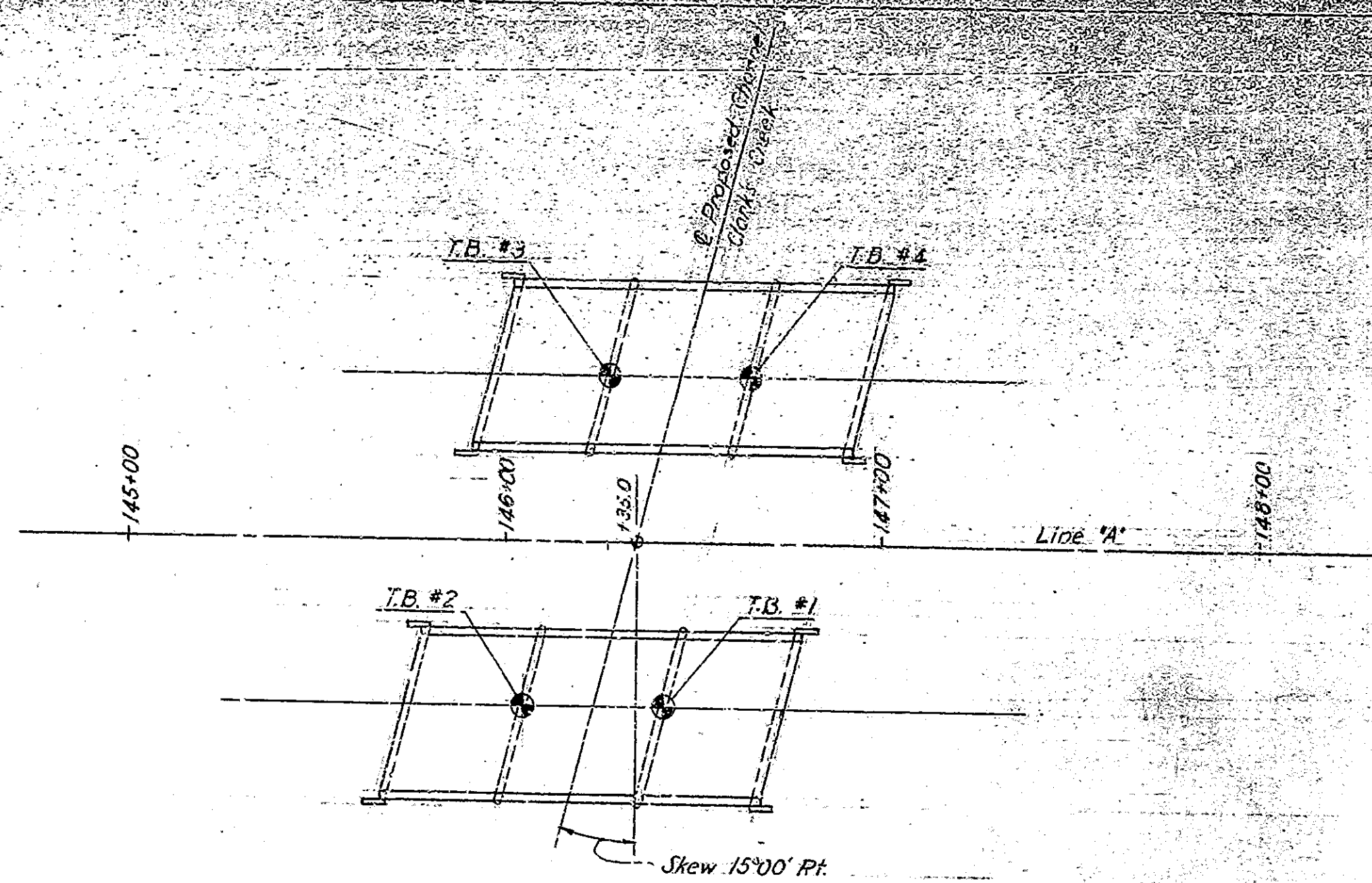
SIGNED James A. Wharton
DATE Oct. 18, 1963

APPROVED 11-15-63
Mr. L. Hayes acting
CHIEF ENGINEER

RECOMMENDED FOR APPROVAL 11-13-63
C. B. ...

REGISTERED
No. 2275
STATE OF
INDIANA
PROFESSIONAL ENGINEER

INDIANA STATE HIGHWAY COMMISSION
STANDARD SPECIFICATIONS DATED 1963
TO BE USED WITH THESE PLANS.



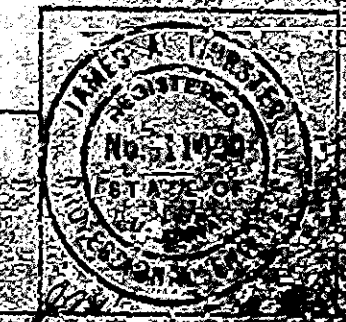
PLAN

Boring Number	T.B. #2	T.B. #3	T.B. #1	T.B. #4
Station	146+05	146+28	146+42	146+55
Offset	42' RT.	42' LT.	42' RT.	42' LT.
Ground Elev.	658.8	658.2	697.8	698.8
700	Sample No. Elev. N	Sample No. Elev. N	Sample No. Elev. N	Sample No. Elev. N
	1 698.8 20SH	1 698.2 20SH	1 697.8 20SH	1 698.8 20SH
	698.0	697.4	697.0	698.0
	GROUND LEVEL	GROUND LEVEL	GROUND LEVEL	GROUND LEVEL
695	2 693.8 75	2 693.4 35	2 692.8 8	2 693.3 10
	690.8	690.7	689.4	690.8
	BLACK MOIST LOOSE SANDY CLAY TOPSOIL ORGANIC WOOD LEAVES	BLACK MOIST LOOSE SANDY CLAY TOPSOIL ORGANIC DECEASED WOOD LEAVES	BROWN MOIST SOFT SANDY CLAY ORGANIC MATERIAL	BROWN MOIST VERY SOFT TO SILTY SANDY CLAY ORGANIC MATERIAL
690	3 688.8 45	3 688.2 47	3 687.6 46	3 688.5 43
	685.7	685.7	685.7	685.7
	BROWN MOIST MEDIUM DENSE FINE TO COARSE SAND WITH A TRACE OF FINE GRAVEL	BROWN MOIST DENSE FINE TO COARSE SAND AND FINE TO MEDIUM GRAVEL	BROWN MOIST LOOSE FINE TO COARSE SAND AND FINE TO MEDIUM GRAVEL WITH A TRACE OF COBBLES	BROWN MOIST VERY DENSE TO MEDIUM DENSE SANDY CLAY
685	4 683.8 30	4 683.7 40	4 682.8 50	4 683.3 37
	680.8	680.8	680.8	680.8
	GRAY DRY HARD SANDY CLAYEY SILT WITH SOME FINE TO COARSE GRAVEL AND A FEW COBBLES AND SMALL BOULDERS WITH THIN LAYERS OF SAND	GRAY MOIST HARD SANDY CLAYEY SILT WITH SOME FINE TO MEDIUM GRAVEL (UNKROBAR)	GRAY MOIST HARD SANDY CLAYEY SILT WITH SOME FINE TO MEDIUM GRAVEL (UNKROBAR)	SANDY AND GRAY MOIST TO VERY DENSE TO VERY DENSE FINE TO COARSE SAND WITH A TRACE OF FINE TO MEDIUM GRAVEL
680	5 678.8 69	5 678.2 48	5 677.8 50	5 678.6 52
	675.8	675.8	675.8	675.8
	GRAY WET VERY DENSE SANDY GRAVEL WITH THIN LAYERS OF CLAYEY SILT	GRAY WET VERY DENSE SANDY GRAVEL WITH THIN LAYERS OF CLAYEY SILT	BROWN SANDY GRAY MOIST TO VERY DENSE TO VERY DENSE FINE TO COARSE SAND WITH A TRACE OF FINE GRAVEL	GRAY MOIST VERY DENSE TO MEDIUM DENSE SANDY CLAYEY SILT WITH SOME FINE TO MEDIUM GRAVEL
675	6 673.8 50	6 673.2 50	6 672.8 38	6 673.4 43
	671.3	671.3	671.3	671.3
	BROWN AND GRAY MOIST VERY DENSE FINE TO COARSE SAND AND SOME FINE TO COARSE GRAVEL	BROWN AND GRAY MOIST VERY DENSE FINE TO COARSE SAND AND SOME FINE TO COARSE GRAVEL	BROWN AND GRAY MOIST VERY DENSE FINE TO COARSE SAND AND SOME FINE TO COARSE GRAVEL	GRAY MOIST VERY DENSE TO MEDIUM DENSE SANDY CLAYEY SILT WITH SOME FINE TO MEDIUM GRAVEL
670	7 668.8 31	7 668.7 63	7 667.8 32	7 668.8 37
	666.7	666.7	666.7	666.7
	END OF BORING	END OF BORING	END OF BORING	END OF BORING
665	DEPTH OF BORING 31.5	DEPTH OF BORING 31.5	DEPTH OF BORING 31.5	DEPTH OF BORING 31.5
660	COBBLES AND SMALL BOULDERS FROM A-1-A	COBBLES AND SMALL BOULDERS FROM A-1-A	COBBLES AND SMALL BOULDERS FROM A-1-A	COBBLES AND SMALL BOULDERS FROM A-1-A
655				
650				

NOTES:
 * INDICATES GROUND WATER TABLE
 N INDICATES THE NUMBER OF BLOWS REQUIRED TO DRIVE A 1 1/2" I.D. SPT. SPT. PENETRATION TEST BY MEANS OF A 140 LB. WEIGHT FALLING 30"

SOIL BORINGS
 SCALES: HORIZ. 1"=30' 0" VERT. 1"=5' 0"

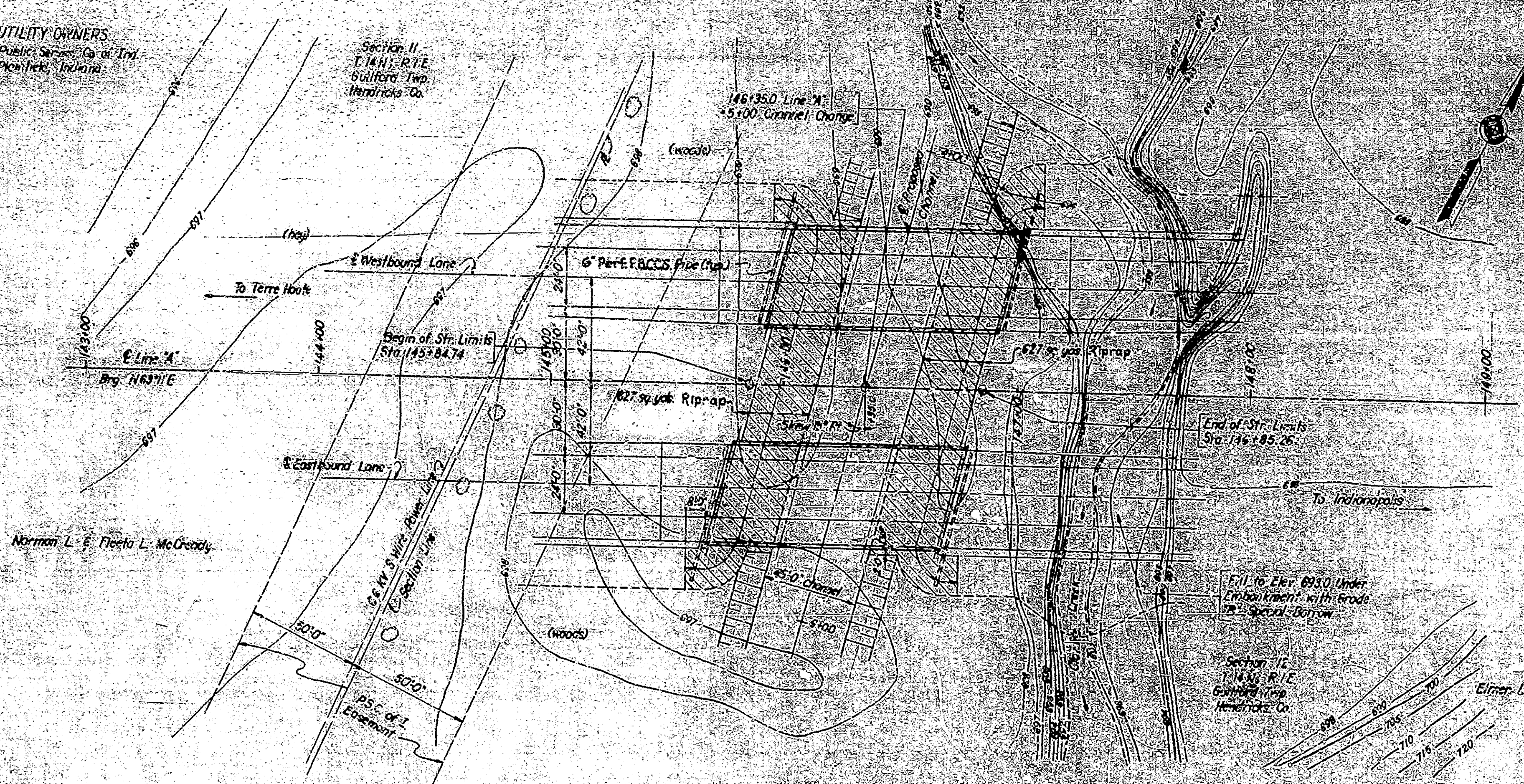
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 CONTRACT NO. 170-3124N-5
 CHECK FILE: 170-3124N-5



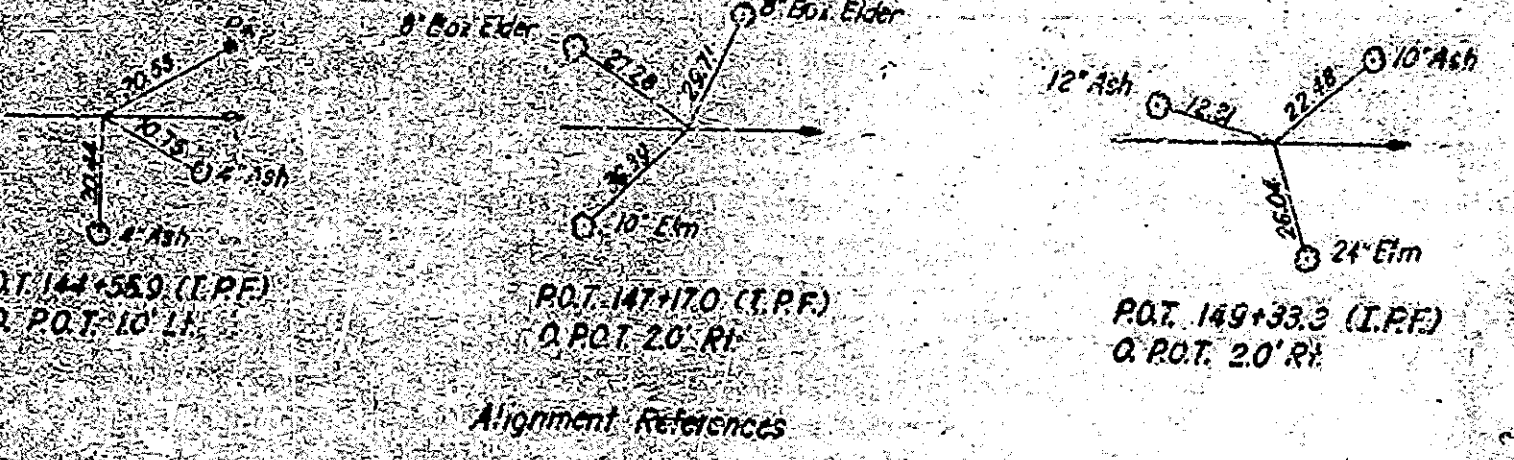
UTILITY OWNERS
Public Service Co. of Ind.
Mishawaka, Indiana

Section II
T. 14N. R. 1E
Gulifera Twp.
Hendricks Co.

STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
IND.	1-70-3 (24)65	1963	6	21



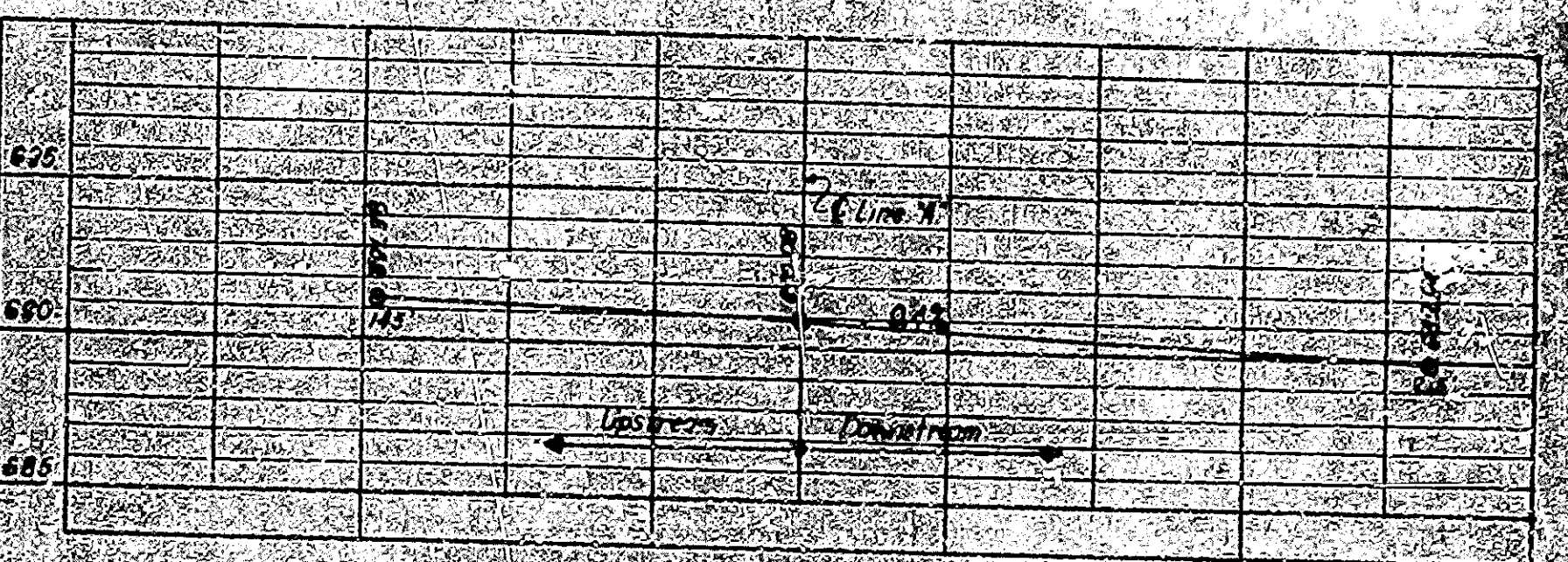
Present Structure
NONE



DRAINAGE AREA
12.6 Sq. Mi.

For additional alignment references and Bench Marks
see Road Plan and Profile sheet #3
This bridge is structure no. 3 on Rd. Proj. 1-70-3(24)65
See Art. 102 of the Specifications regarding test pit data
Field notes from books 89, 185, 270, 1, 6, 8, 10, 11
See Summary Sheet for approach structures
For approach items and R/W see R. Plan and Profile sheet #3.

PLAN
Scale: 1" = 30'
Compare Laterals



PROFILE ON E CHANNEL
Scale: Horiz. 1" = 30' Vert. 1" = 10'
LAYOUT
CONTINUOUS REINF. CONC. GIRDER BRIDGE - TWIN STRUCTURES
3 Spans 31'-5", 37'-6", 31'-5" Span 15'-0" RI. 39'-0" PAV.
on Interstate Route 49 over Clark Creek

INDIANA STATE HIGHWAY COMMISSION
HENDRICKS COUNTY

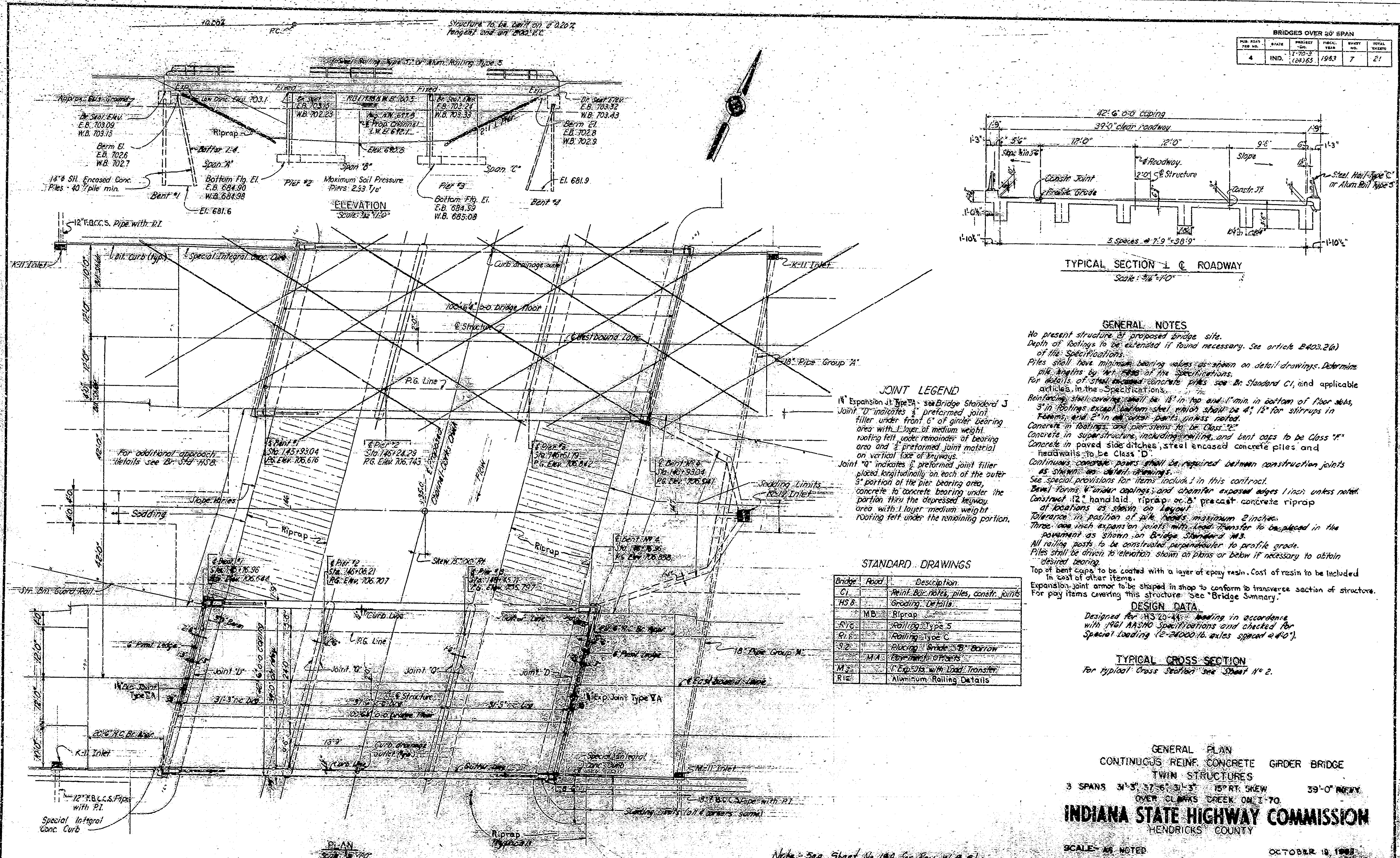
SCALE: AS NOTED
OCTOBER 18, 1963

SUBMITTED FOR APPROVAL: *James R. Williams*

DRAWING: C-1 OF 7
PROJECT: 1-70-3(24)65 E STA. 146+35.0
BRIDGE CONTRACT NO. B-3114
BRIDGE FILE: 1-70-65-204

DESIGNED: J.A.F.	CHKD: D.E.F.
DRAWN: J.A.R.	CHKD: D.E.F.
TRACED: D.E.F.	CHKD: J.A.W.

Rev. 4-7-66 Found. Exc. Note
Rev. 2-11-65 6" Pipe & Manhole



BRIDGES OVER 20' SPAN					
PROJ. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	124185	1963	7	21

TYPICAL SECTION 1 @ ROADWAY
Scale: 3/8" = 1'-0"

GENERAL NOTES

No present structure at proposed bridge site.
 Depth of footings to be extended if found necessary. See article B402.2(a) of the Specifications.
 Piles shall have minimum bearing values as shown on detail drawings. Determine pile lengths by Art. 202 of the Specifications.
 For details of steel encased concrete piles see Art. Standard C1, and applicable articles in the Specifications.
 Reinforcing steel covering shall be 1" in top and 1" min. in bottom of floor slabs, 3" in footings except bottom steel which shall be 4"; 1" for stirrups in beams, and 2" in all other parts unless noted.
 Concrete in footings and pier stems to be Class "C".
 Concrete in superstructure, including girders and bent caps to be Class "F".
 Concrete in paved side ditches, steel encased concrete piles and headwalls to be Class "D".
 Continuous concrete piers shall be required between construction joints as shown on detail drawings.
 See special provisions for items included in this contract.
 Bevel forms under copings and chamfer exposed edges 1 inch unless noted.
 Construct 12" hand laid riprap on 6" precast concrete riprap at locations as shown on layout.
 Tolerance in position of pile heads maximum 2 inches.
 Three one inch expansion joints with Lead Transfer to be placed in the pavement as shown on Bridge Standard M3.
 All railing posts to be constructed perpendicular to profile grade.
 Piles shall be driven to elevation shown on plans or below if necessary to obtain desired bearing.
 Top of bent caps to be coated with a layer of epoxy resin. Cost of resin to be included in cost of other items.
 Expansion joint armor to be shaped in shop to conform to transverse section of structure. For pay items covering this structure see "Bridge Summary".

JOINT LEGEND
 14" Expansion Jt. Type JA - see Bridge Standard J
 Joint "D" indicates 3" preformed joint filler under front 6" of girder bearing area with 1" layer of medium weight roofing felt under remainder of bearing area and 2" preformed joint material on vertical face of keyways.
 Joint "Q" indicates 3" preformed joint filler placed longitudinally on each of the outer 3" portion of the pier bearing area, concrete to concrete bearing under the portion thru the depressed keyway area with 1" layer medium weight roofing felt under the remaining portion.

STANDARD DRAWINGS

Bridge	Code	Description
C1		Reinf. Bar, holes, piles, constr. joints
HSB		Grading Details
MB		Riprap
R1G		Rolling Type S
R1C		Rolling Type C
R2		Blanking Grade B borrow
M1A		Expansion Joints
M2		Expansion Joints with Lead Transfer
R12		Aluminum Rolling Details

DESIGN DATA

Designed for HS20-44 loading in accordance with 1961 AASHTO Specifications and checked for Special Loading (2-24000 lb. axles spaced 4'-0").

TYPICAL CROSS SECTION

For typical cross section see Sheet No. 2.

GENERAL PLAN
 CONTINUOUS REINF. CONCRETE GIRDER BRIDGE
 TWIN STRUCTURES

3 SPANS 31'-3", 37'-6", 31'-3" 15° RT. SKEW 39'-0" HWY.
 OVER CLARKS CREEK ON I-70

INDIANA STATE HIGHWAY COMMISSION
 HENDRICKS COUNTY

SCALE - AS NOTED OCTOBER 10, 1963

SUBMITTED FOR APPROVAL: James B. Shuster

DESIGNED BY: R. S. MOORE

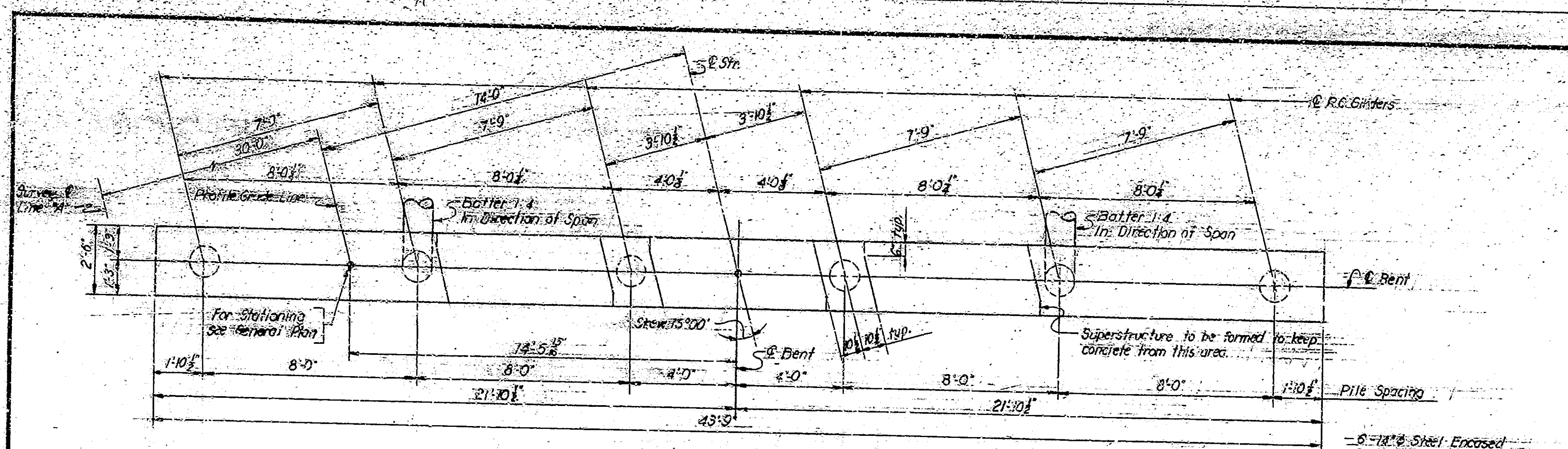
PROJECT: I-70 124185
 BRIDGE CONTRACT NO. B-8112

BRIDGE FILE: I-70-124185-204

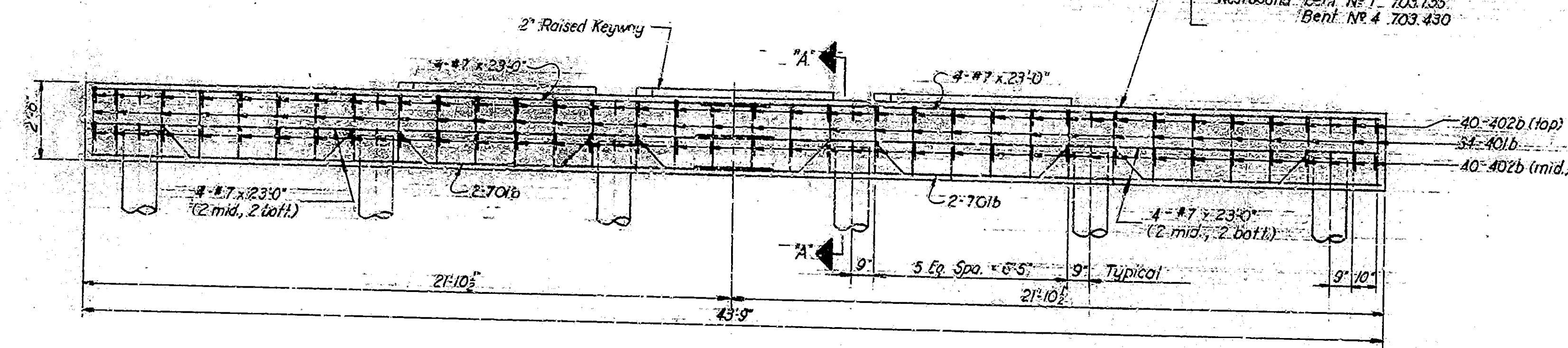
Note: See Sheet No. 19A for Rev. W.B. Str.

Rev. 6-5-64 - West Bound Structure
 Rev. 2-11-66 - Riprap, Rolling Standard Drawings, General Notes

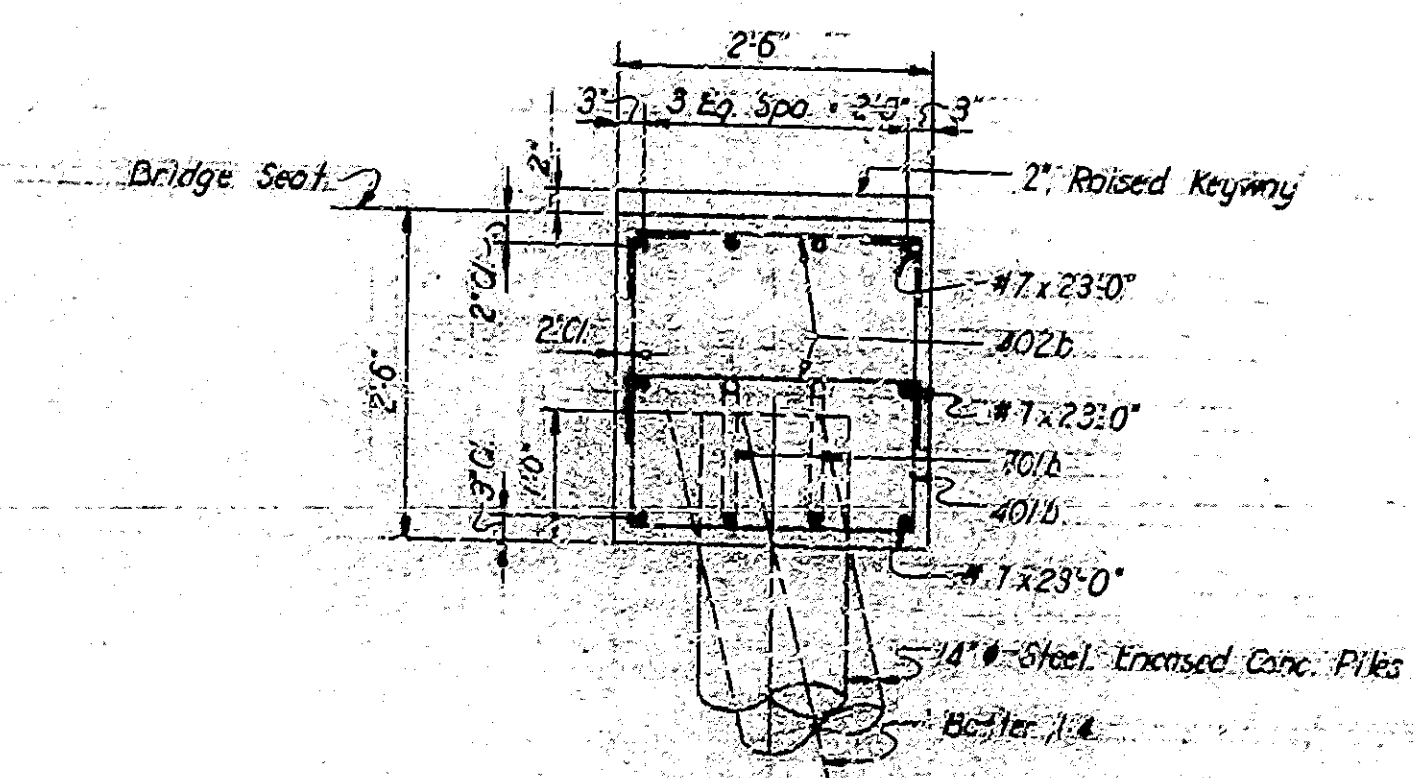
DESIGNED	JAC	CWO	JES
DRAWN	JAC	CWO	JES
TRACED			



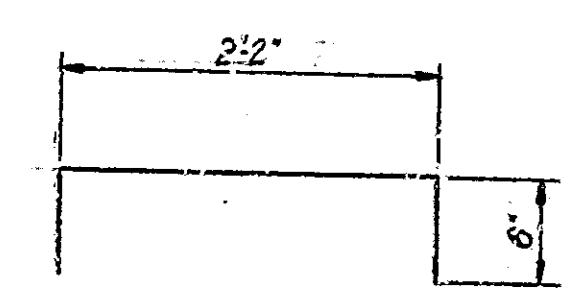
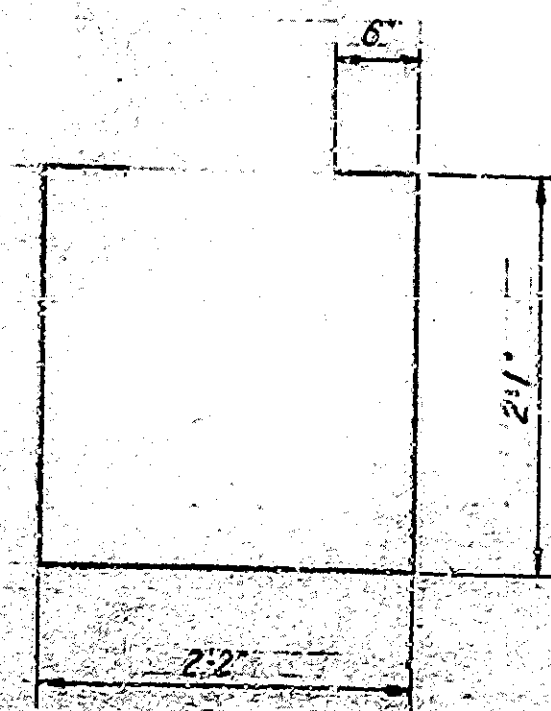
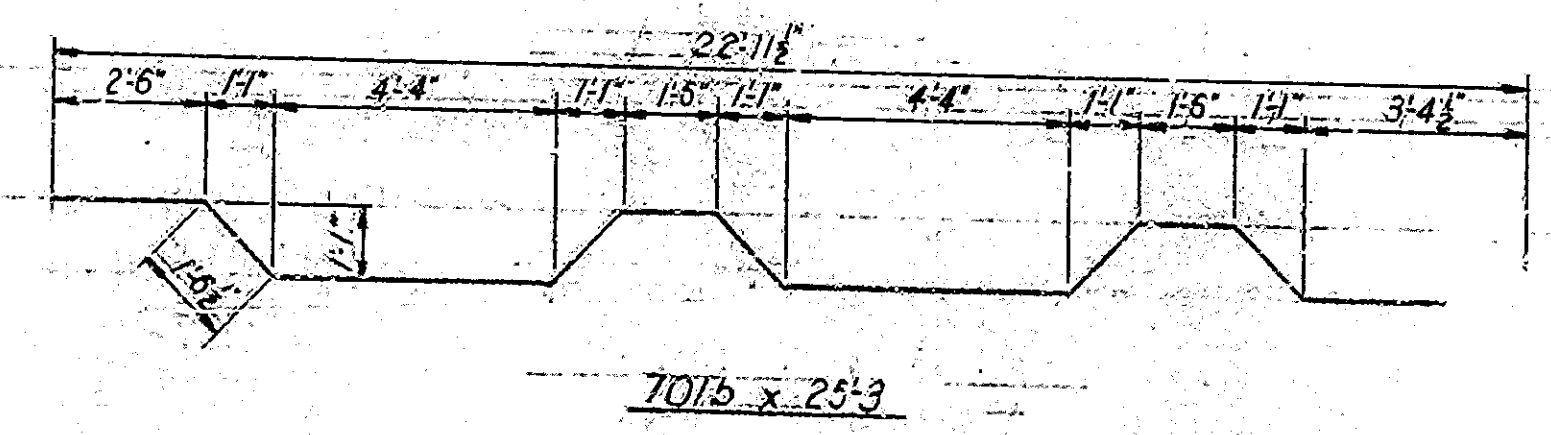
PLAN - BENT NO. 1 E.B. LANE
 Plan - Bent No. 1 E.B. Lane Same
 Plan - Bent No. 1 & No. 4 W.B. Lane Same by Opp. Hand
 Scale: 1/4" = 1'-0"



ELEVATION
 Scale: 3/8" = 1'-0"



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



402b x 3'-2"

401b x 7'-4"

Note - See sheet No. 13B for Rein. W.B. 3rd.

Plan of 6'-0" West Bound Structure

BRIDGES OVER 20' SPAN					
STATE ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	BIDDY DIV.	TOTAL SHEETS
4	IND.	I-70-3 (24) 65	1963	8	21

BILL OF MATERIALS
 BENT NO. 1 E.B. LANE
 BENT NO. 4 E.B. LANE &
 BENTS NO. 1 & NO. 4 W.B. LANE SAME

REINFORCING STEEL			
Mark or Size	No. of Bars	Length	Weight
701b	4	25'-3"	
#7	16	23'-0"	
Total #7			959 #
401b	34	7'-4"	
402b	80	3'-2"	
Total #4			336 #
Total Reinforcing			1,295 #
CONCRETE			
Class "F" Concrete			10.4 Cus.
MISCELLANEOUS			
1 1/2" # Steel Encased Conc.			
Piles #7 Gauge (6 @ 20')			1201-F

NOTES:
 See Bridge Std. C for reinforcing bar notes
 Bent cap is not to be poured until after fill has been completed up to the approximate elevation of the bottom of cap.

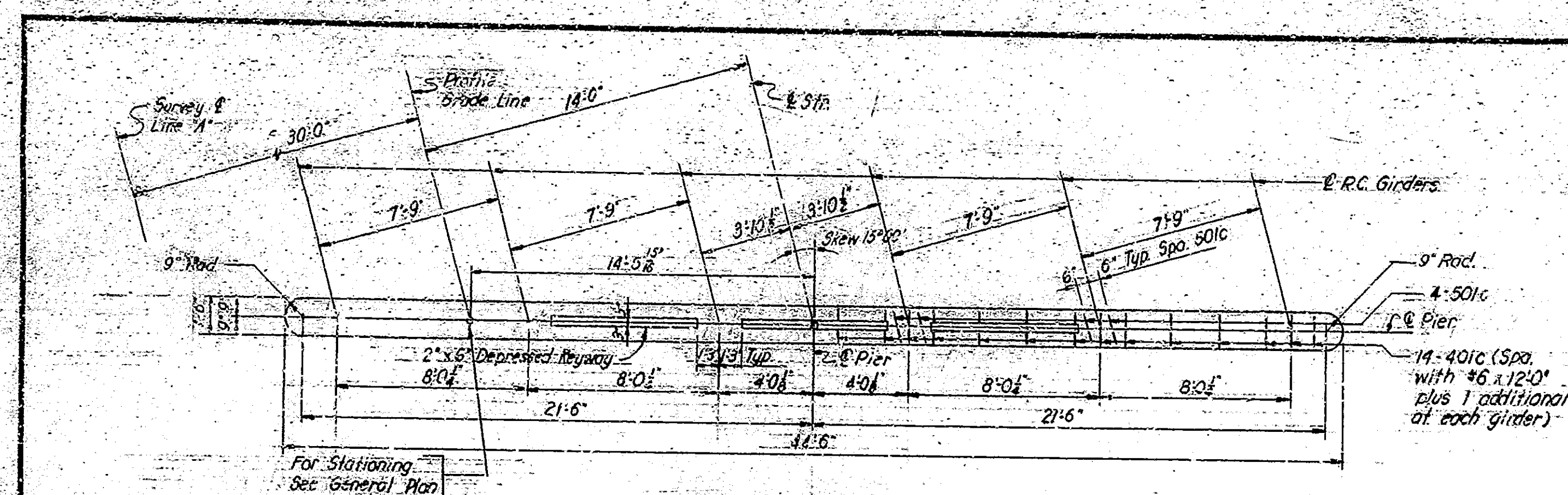
BENTS NO. 1 & NO. 4 DETAILS & BILL OF MATERIALS
INDIANA STATE HIGHWAY COMMISSION

SCALE - As Noted OCTOBER 19, 1963

SUBMITTED FOR APPROVAL: *James A. Winters*

DRAWING: C-3 OF 7
 PROJECT: I-70-3 (24) 65
 CONTRACT NO. 7-7115
 BRIDGE FILE: I-70-3 (24) 65

DESIGNED BY: JAC	CHECKED BY: JAC
DRAWN BY: D.E.R.	CHECKED BY: JAC
TRACED BY: JAC	CHECKED BY: JAC



CAP PLAN - PIER NO. 2, E.B. LANE
 Plan - Pier No. 3, E.B. Lane Same
 Plan - Piers No. 2 & No. 3, W.B. Lane Same by Opp. Hand

TABLE OF ELEVATIONS & DIMENSIONS

	Pier No. 2 E.B. Lane	Pier No. 3 E.B. Lane	Pier No. 2 W.B. Lane	Pier No. 3 W.B. Lane
Profile Grade El. @ Int. of Pier	706.707	706.797	706.743	706.842
Profile Spook Line				
Bridge Seat El.	703.150	703.235	703.225	703.330
Top of Footing	686.90	686.99	686.98	687.08
Bot. of Footing	684.90	684.99	684.98	685.08
Dimension "A"	3'-6"	3'-6"	3'-6"	3'-6"
Dimension "H"	21'-9"	21'-9"	21'-9"	21'-9"

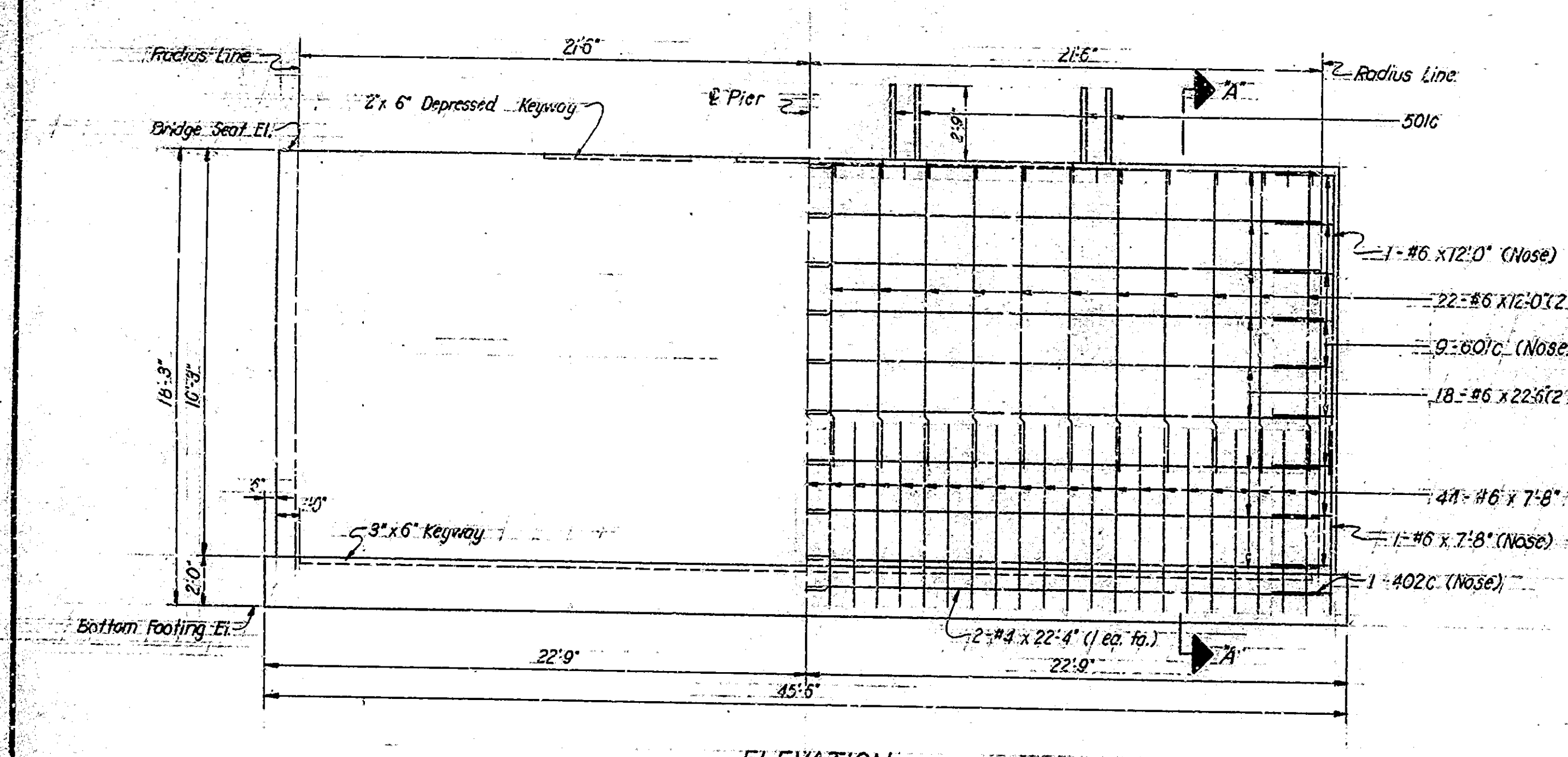
BRIDGES OVER 20' SPAN

P.D. ROAD NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1-70-3 (24) 65	1963	9	27

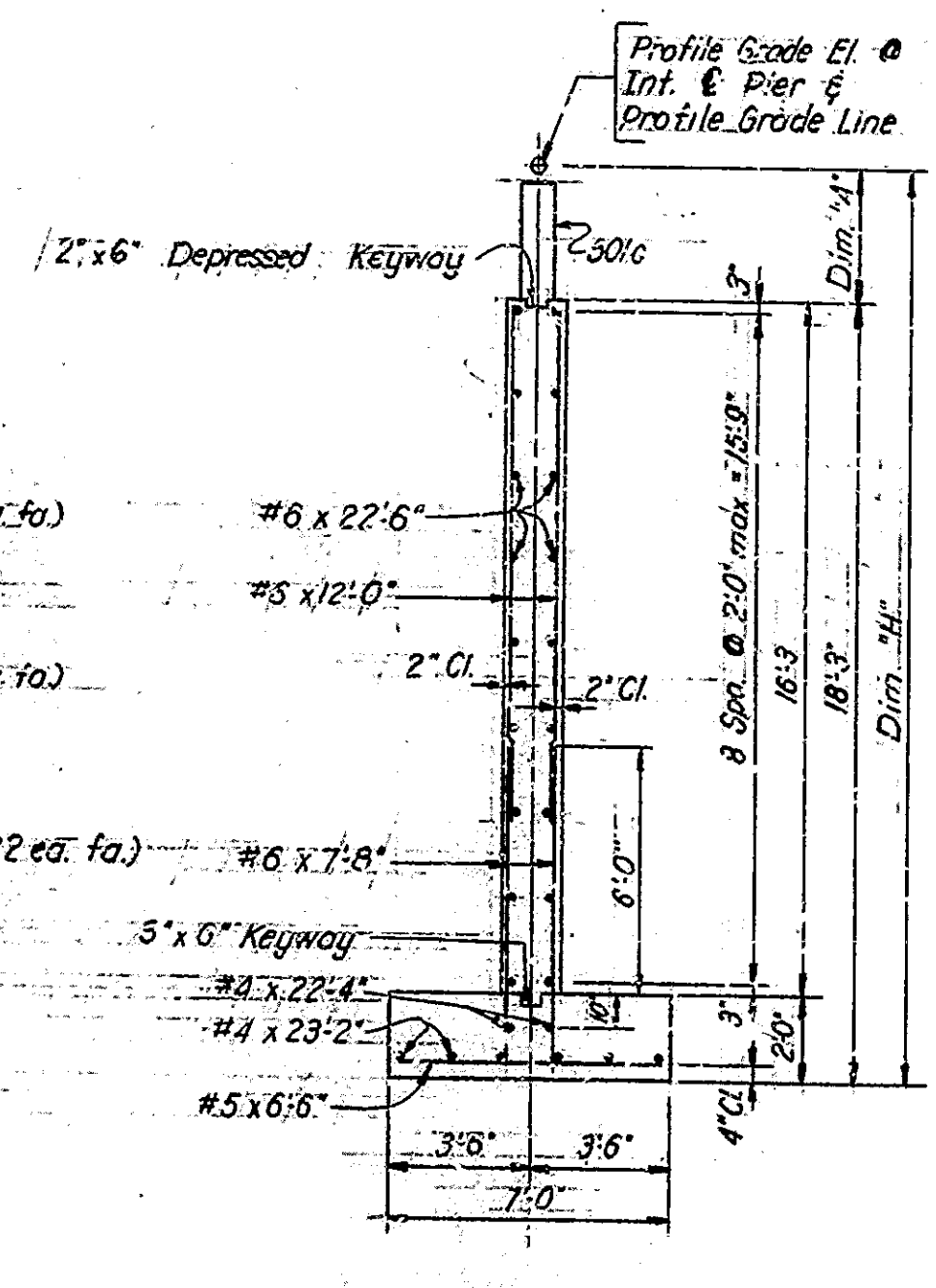
BILL OF MATERIALS
PIER NO. 2 E.B. LANE
 PIER NO. 3 E.B. LANE & PIER NO. 2 & NO. 3 W.B. LANE SAME

REINFORCING STEEL

Mark or Size	No. of Bars	Length	Weight
401c	18	5'-8"	
#6	36	22'-6"	
#6	46	12'-0"	
#6	88	7'-8"	
Total #6			3212*
501c	8	9'-6"	
#5	69	6'-6"	
Total #5			547*
401c	28	2'-2"	
402c	2	4'-4"	
#4	12	23'-2"	
#4	4	22'-4"	
Total #4			292*
Total Steel			4051*
CONCRETE			
Class "E" Abut. Ftg. (Stem)			39.9 Cys.
Class "E" Ftg.			23.6 Cys.



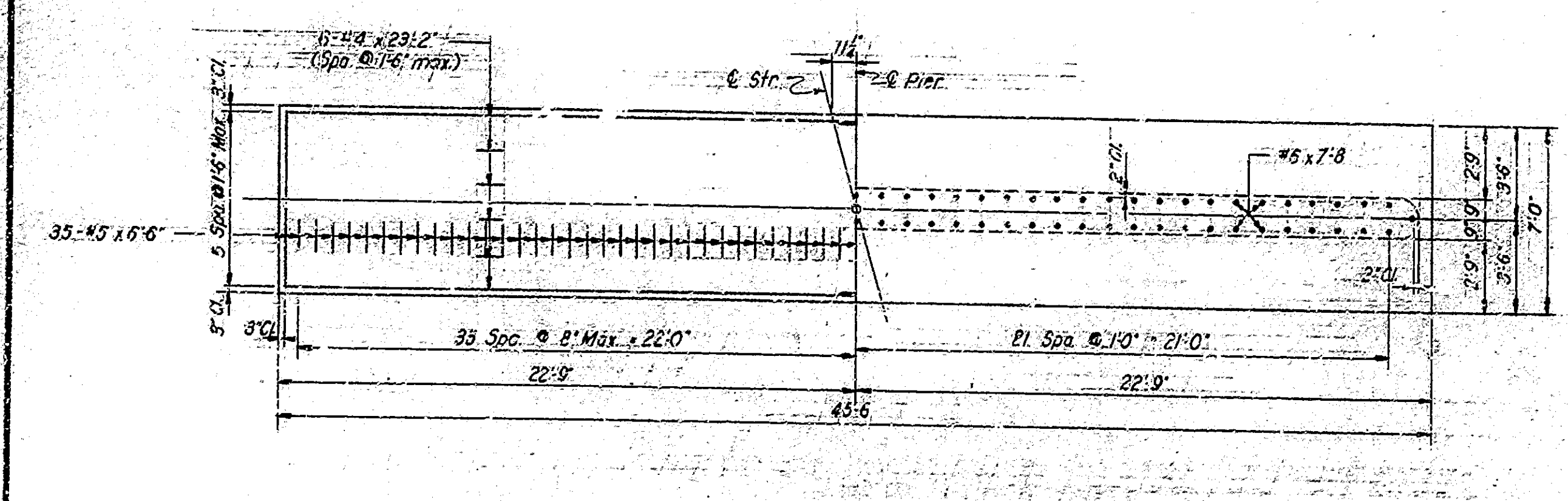
ELEVATION



SECTION A-A

Mark	a	b	Length
501c	1'-2"	4'-2"	9'-6"
401c	1'-2"	6"	2'-2"

Mark	a	b	c	Length
401c	2'-0"	6"	1'-8"	5'-8"
402c	7'-4"	6"	1'-8"	4'-4"



FOOTING PLAN

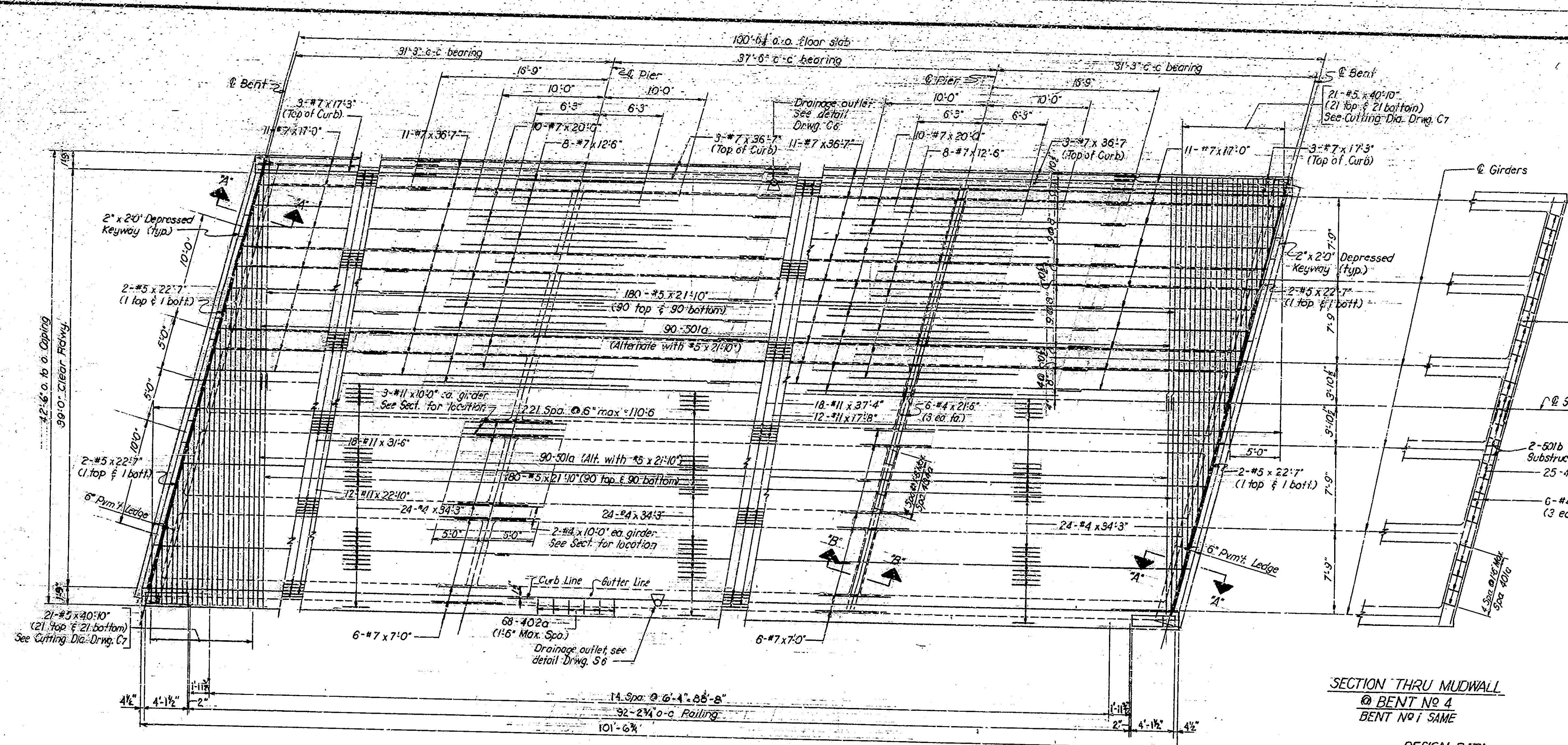
DESIGNED: JAC	CHECKED: D.E.G.
DRAWN: D.F.D.	CHECKED: J.M.H.
TRACED: C.F.D.	

Note: See Sheet No. 13.C for Rev. W. B. Str.

PIERS NO. 2 & NO. 3 DETAILS & BILL OF MATERIALS
INDIANA STATE HIGHWAY COMMISSION

SCALE: 1/4" = 1'-0"
 SUBMITTED FOR APPROVAL: James A. Wuester
 OCTOBER 13, 1963
 DRAWING: C-4 OF 7
 PROJECT: 1-70-3 (24) 65
 CONTRACT NO. R-7118
 BRIDGE FILE: 1-70-66-5174
 Rev. 6-6-66 in West Bound Structure

BRIDGES OVER 20' SPAN					
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	CHECK NO.	TOTAL SHEETS
4	IND.	1-70-55 (29) 65	1963	10	21

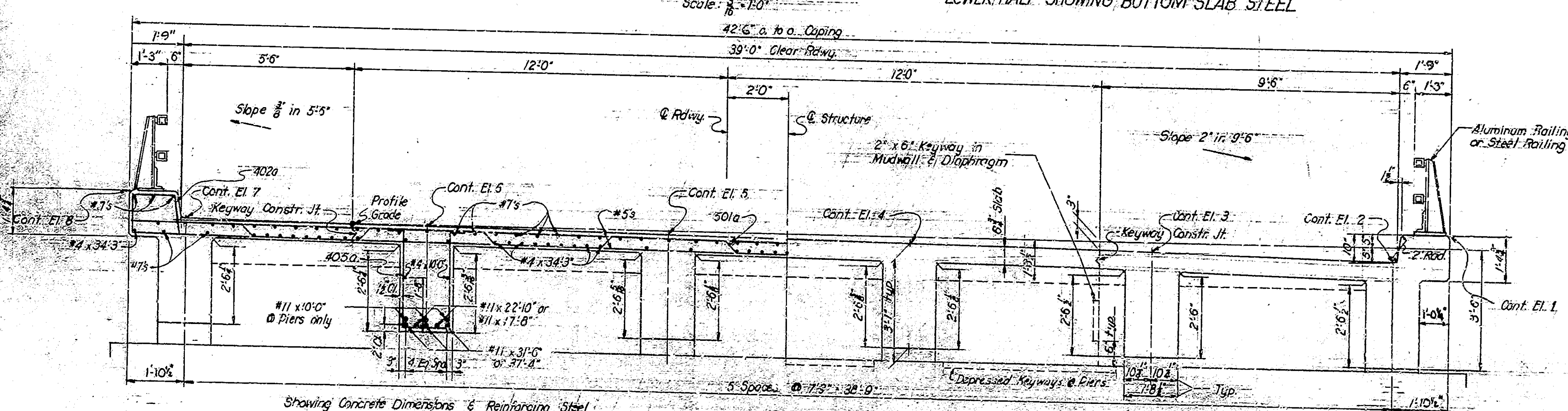


SECTION THRU MUDWALL
@ BENT NO 4
BENT NO 1 SAME

PLAN - EASTBOUND LANE
PLAN - WESTBOUND LANE SAME
Scale: 1/8" = 1'-0"

DESIGN DATA
UNIT STRESSES
F_s = 20,000 p.s.i.
F_c = 1,200 p.s.i.
LOADING
LIVE LOAD: HS 20-44 loading with impact and distribution of loads in accordance with 1961 A.A.S.H.O. Specifications.
DEAD LOAD: Increased 35 p.s.f. of roadway for future wearing surface.
Slab designed with 1/2" wearing surface.

NOTES:
For Reinforcing Bar Notes see Br. Std. C.
For additional details & sections see Drwg. C6 & C7.
For Bill of Materials see Drwg. C7.
For railing posts, rails, and post anchor bolt details, see Br. Std. R1c & R1e or R1f.
Anchor bolts for the railing shall be preset in the concrete.



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

SUPERSTRUCTURE DETAILS
INDIANA STATE HIGHWAY COMMISSION

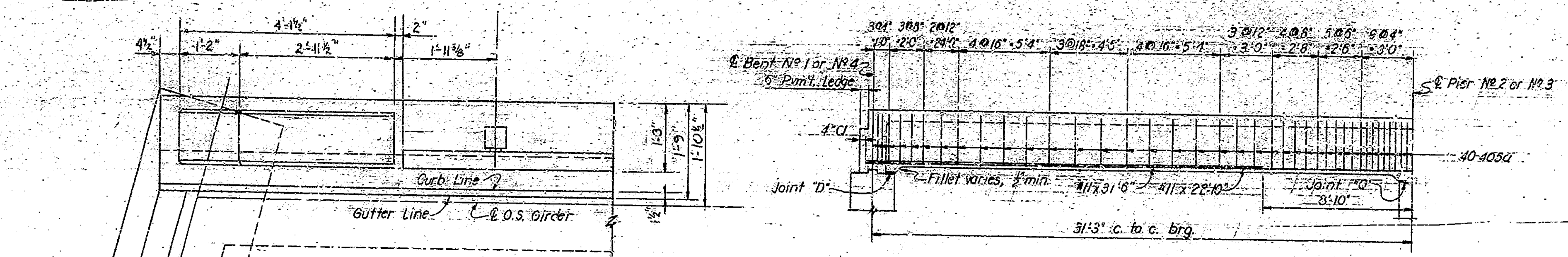
SCALE: As Noted
OCTOBER 16, 1963
SUBMITTED FOR APPROVAL: *James A. Winters*
DRAWING: C-5 OF 7
PROJECT: I-70-3(24) 65
CONTRACT NO.: R-711A
BRIDGE FILE: I-70-66-5184

DESIGNED: JAC
DRAWN: OED
TRACED: CND

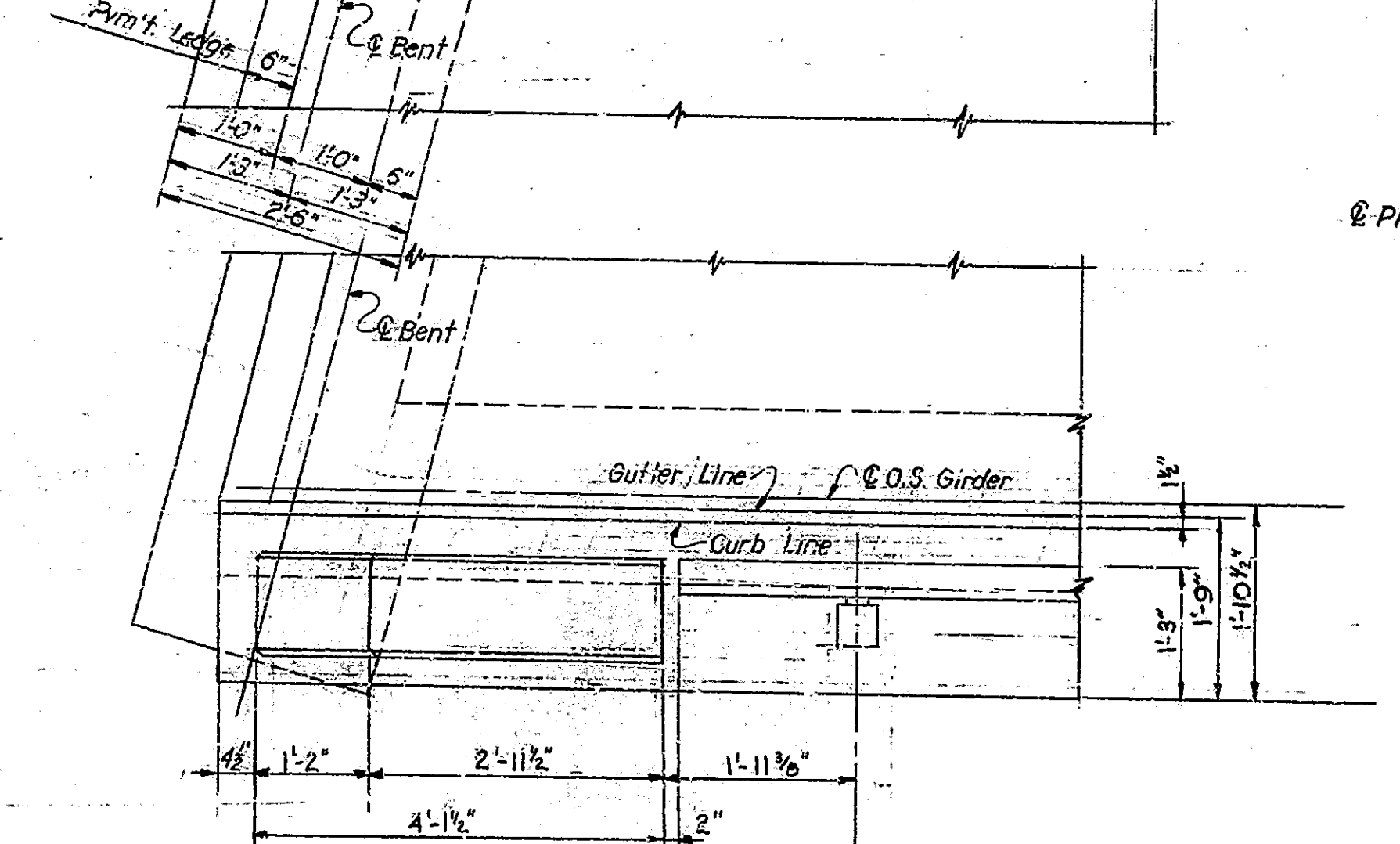
Note: See Sheet No. 19D, 19E & 19F for Rev. W.B. str.
Rev. 6-6-66 - West Bound Str.
Rev. 8-17-66 Railing

BRIDGES OVER 20' SPAN						
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	ESTIM. NO.	TOTAL SHEETS	
4	IND.	I-70-3 (24)65	1963	11	21	

CONTROL ELEVATIONS								
P.T.	E.B. LANE				W.B. LANE			
	Cent. Pier No. 2	Cent. Pier No. 3	Cent. Pier No. 4	Cent. Pier No. 5	Cent. Pier No. 2	Cent. Pier No. 3	Cent. Pier No. 4	Cent. Pier No. 5
1	707.04	707.10	707.19	707.28	707.11	707.18	707.29	707.39
2	706.21	706.27	706.36	706.45	706.28	706.35	706.45	706.55
3	706.35	706.41	706.50	706.59	706.41	706.48	706.58	706.69
4	706.48	706.54	706.63	706.72	706.53	706.60	706.70	706.80
5	706.56	706.63	706.72	706.81	706.61	706.68	706.78	706.88
6	706.63	706.69	706.78	706.87	706.66	706.73	706.83	706.93
7	706.68	706.74	706.83	706.92	706.70	706.77	706.87	706.97
8	707.51	707.58	707.67	707.76	707.54	707.60	707.70	707.80

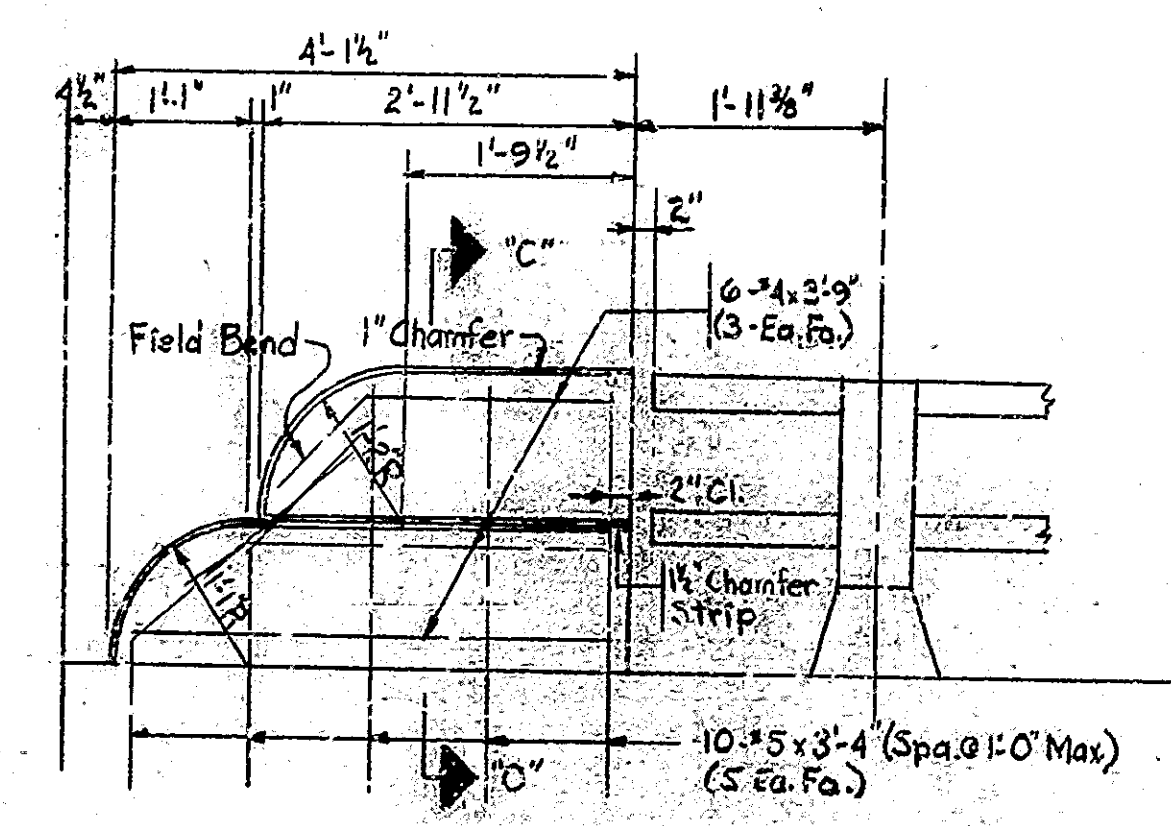


LONGITUDINAL SECTION THRU GIRDER IN SPAN "A" OR "C"
Scale: 1/4" = 1'-0"

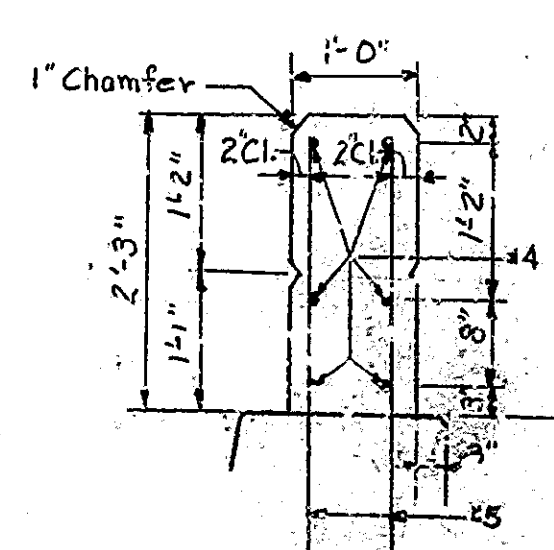


LONGITUDINAL SECTION THRU GIRDER IN SPAN "B"
Scale: 1/4" = 1'-0"

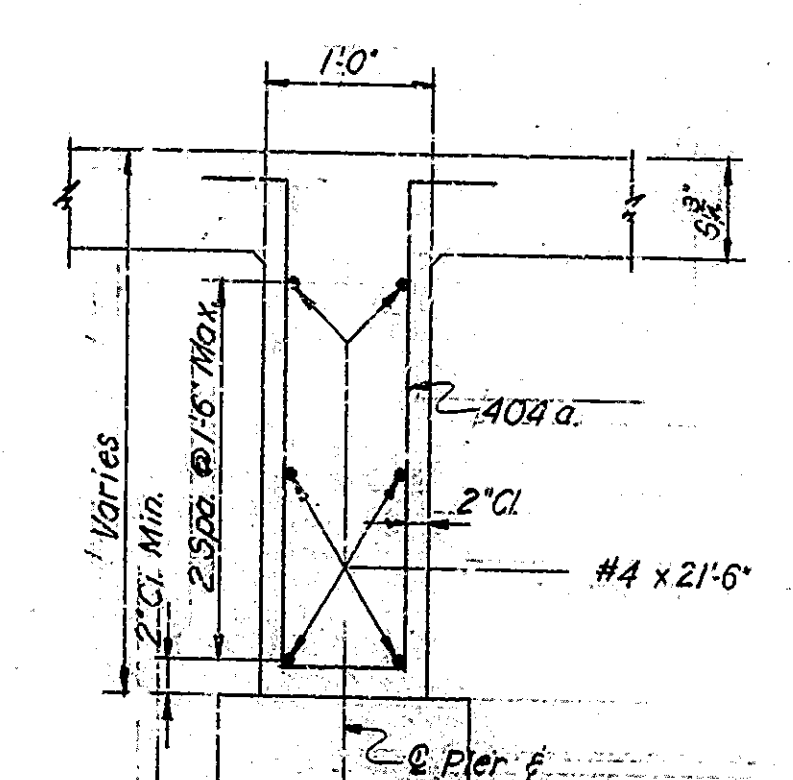
CORNER DETAILS - BENT NO. 1
CORNER DETAILS - BENT NO. 4, SAME
Scale: 3/8" = 1'-0"



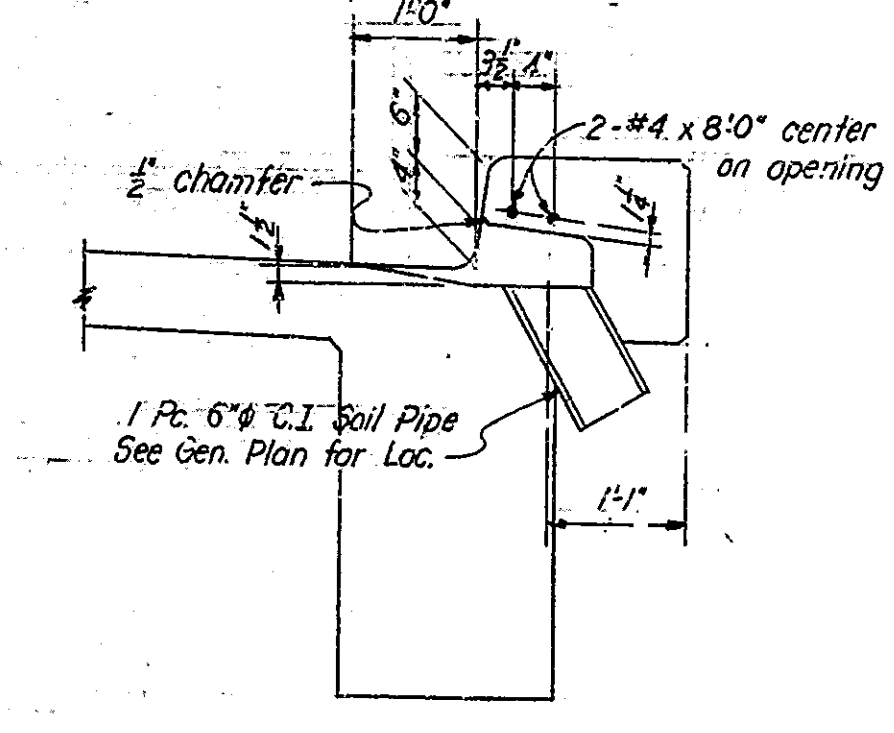
TYP. LIND. POST ELEVATION
Scale: 3/8" = 1'-0"



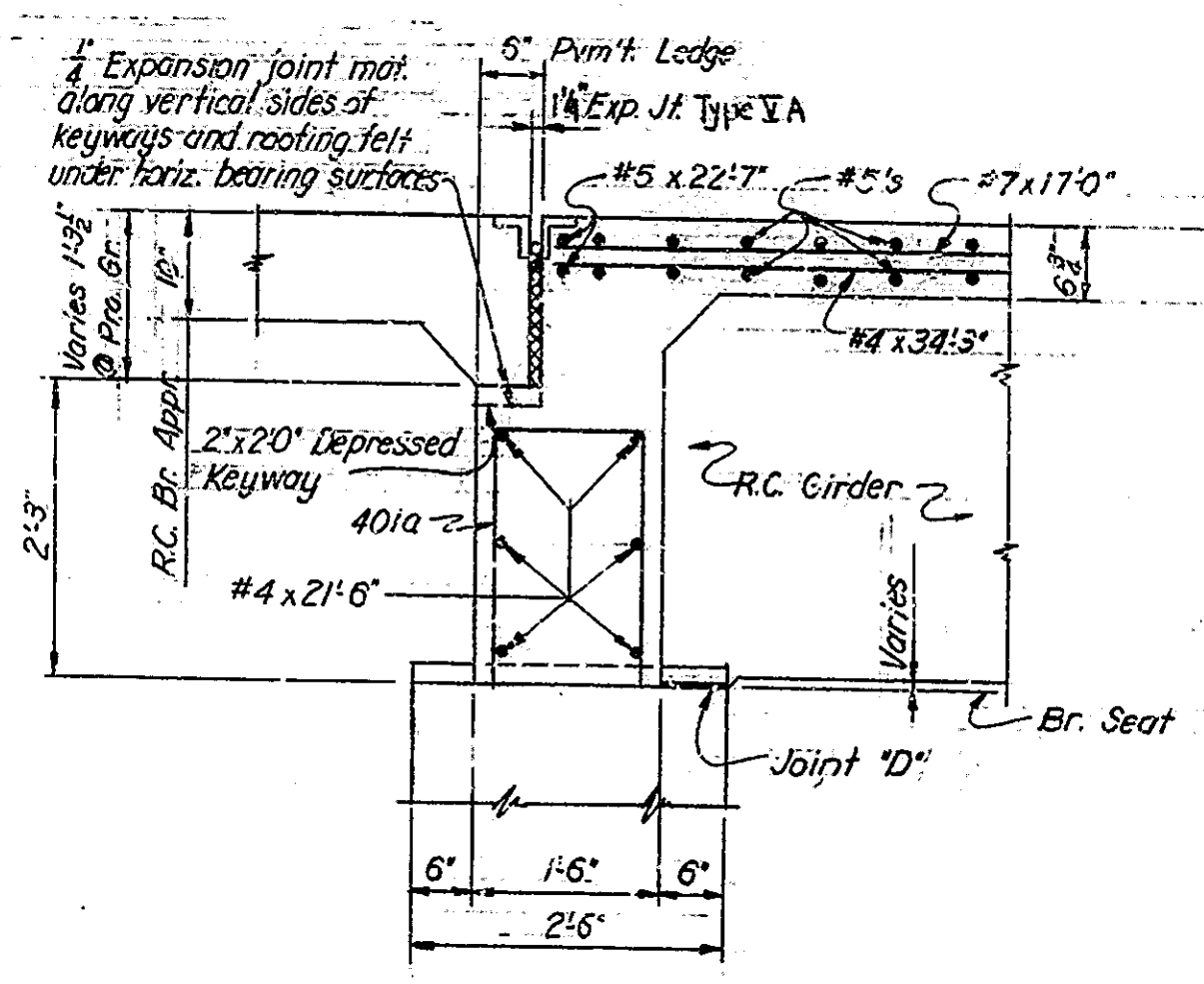
SECTION "B-B"
Scale: 3/8" = 1'-0"



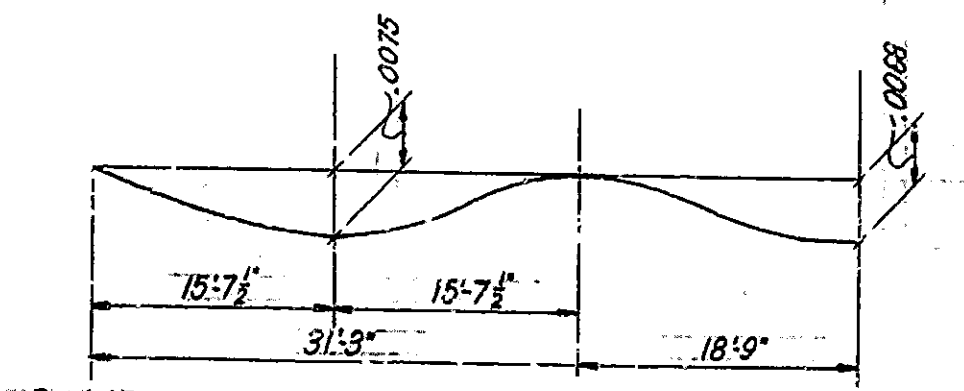
SECTION "B-B"
Scale: 1" = 1'-0"



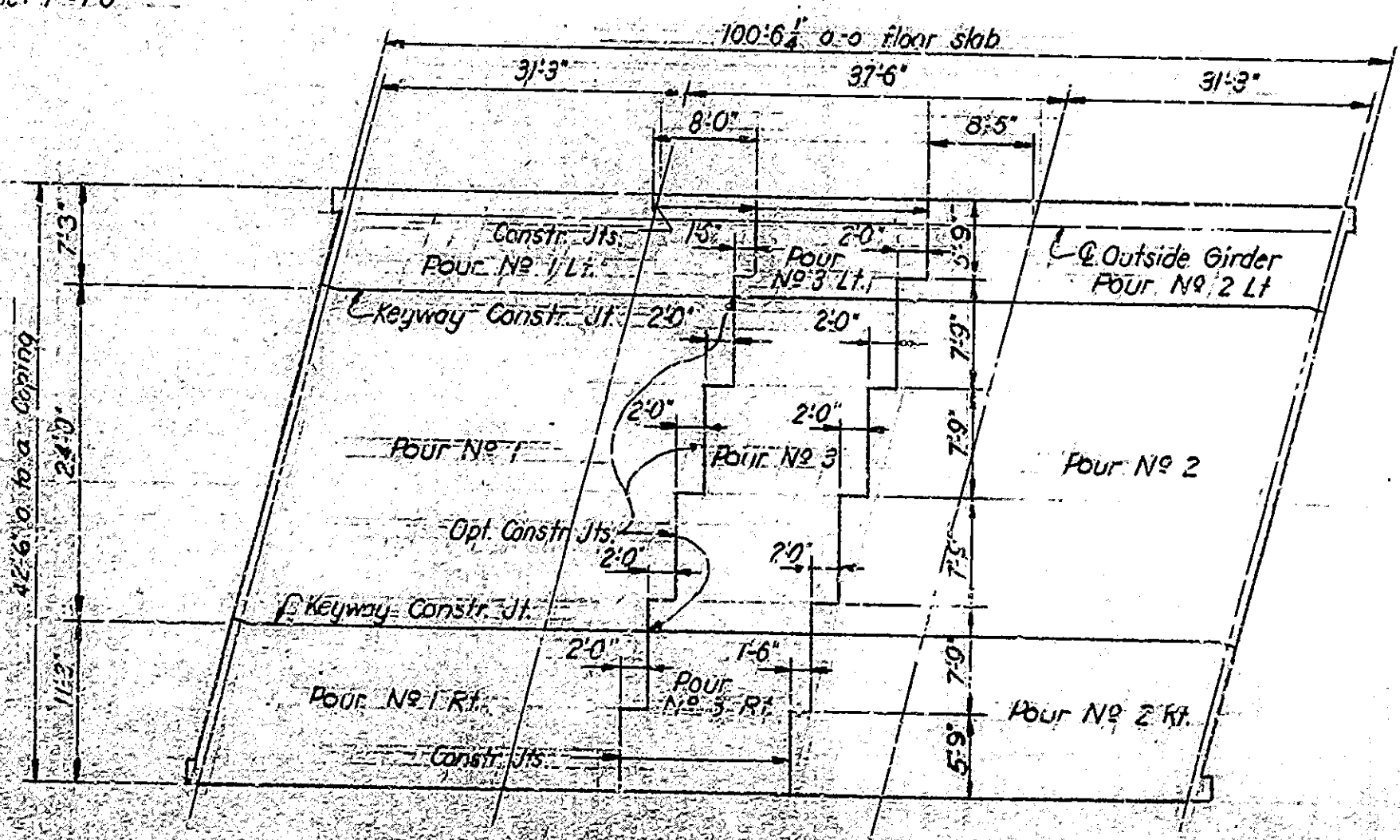
DRAINAGE OUTLET DETAIL
Scale: 3/8" = 1'-0"



SECTION "A-A"
Scale: 3/8" = 1'-0"



D.I. DEFLECTION DIAGRAM



POURING DIAGRAM - E.B. LANE
SCALE: SAME BY OTHER HAND
No. 15614

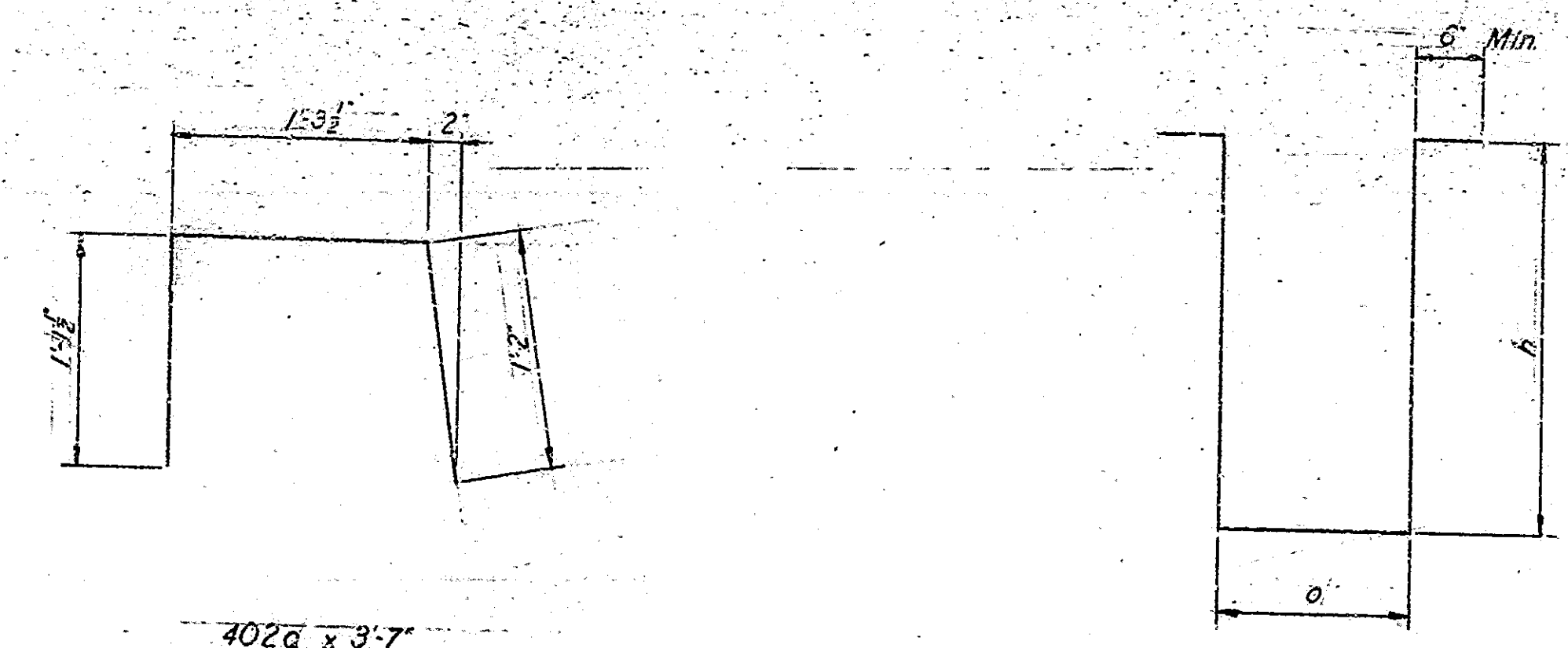
SUPERSTRUCTURE DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: As Noted
OCTOBER 10, 1963
SUBMITTED FOR APPROVAL: James A. Wuester
DRAWING: C-6 OF 7
PROJECT: I-70-3(24)65
CONTRACT NO.: R-7118
BRIDGE FILE: I-70-3(24)65-5184

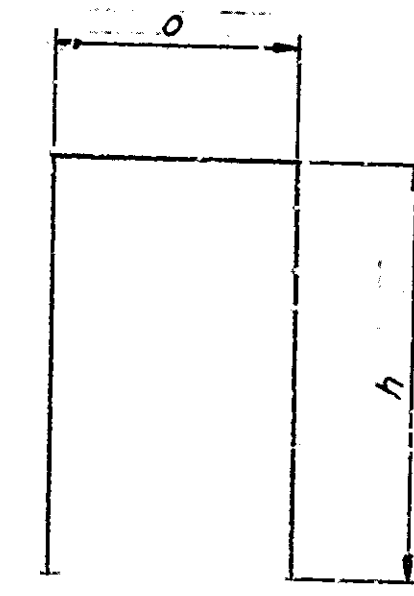
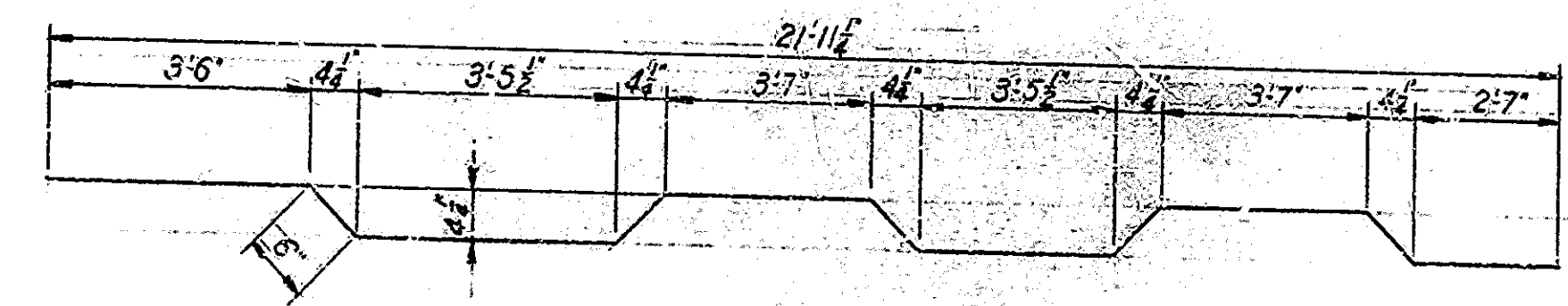
DESIGNED: JAC	CHKD: DEG
DRAWN: DED	CHKD: JAW
TRACED: CRD	

BRIDGES OVER 20' SPAN						
FOR ROAD	STATE	PROJECT	YEAR	SHEET	TOTAL	
4	IND.	1-70-2 (24) 65	1963	12	21	

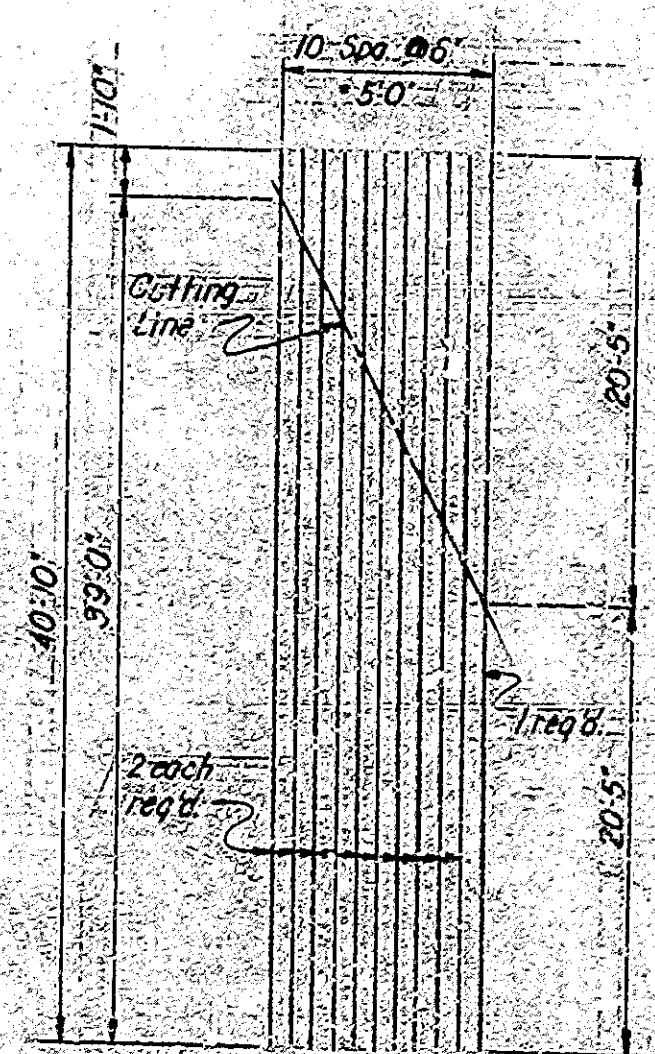
BILL OF MATERIALS
SUPERSTRUCTURE - E.B. LANE
SUPERSTRUCTURE - W.B. LANE SAME



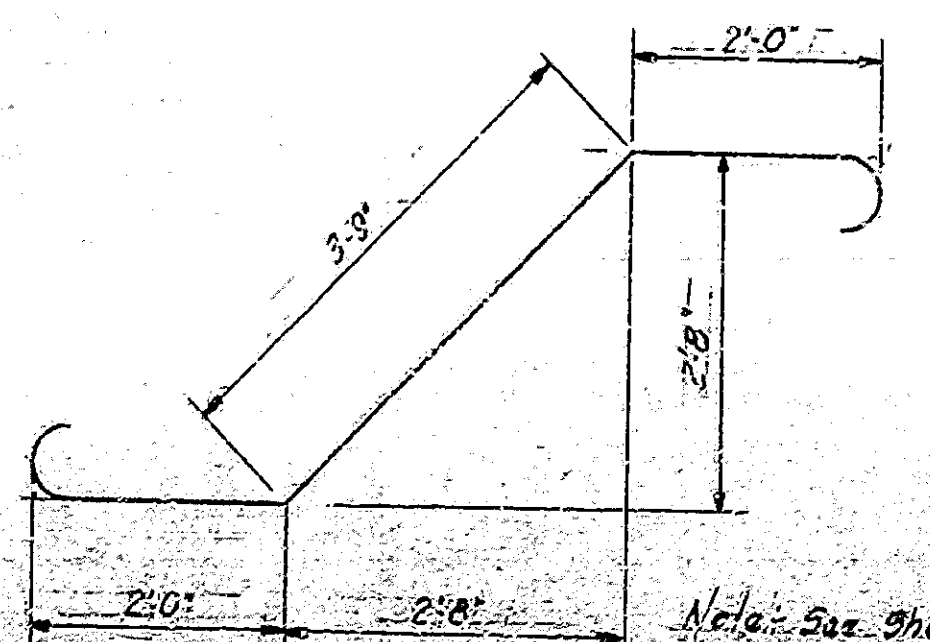
Mark	o	h	Length
408a	8"	2'-10"	7'-4"
405a	1'-5 1/2"	2'-10"	8'-2"



Mark	o	h	Length
401a	1'-2"	1'-9"	4'-8"



CUTTING DIAGRAM for
21'-5" x 40'-10"



701a x 9'-5"
 Note: See sheets 180, 181 & 182 for W.D. str.
 6'-6" Saw West Coast Str.
 1/2" x 1/2" x 1/2" x 1/2"

REINFORCING STEEL			
Mark or Size	No. of Bars	Length	Weight
#11	18	37'-4"	
	36	31'-6"	
	24	22'-10"	
	12	17'-8"	
	36	10'-0"	
Total #11			15,346#
701a	48	9'-5"	
#7	36	36'-7"	
	48	20'-0"	
	12	17'-3"	
	48	13'-0"	
	32	12'-0"	
	24	7'-0"	
Total #7			9,860#
501a	180	22'-5"	
#5	42	40'-10"	
	8	22'-7"	
	360	21'-0"	
	40	3'-4"	
Total #5			14,570#
401a	50	4'-8"	
402a	136	9'-4"	
404a	50	7'-4"	
405a	78	6'-2"	
	14	34'-3"	
	48	21'-0"	
	24	10'-0"	
	24	3'-0"	
Total #5			9,150#
Total Steel			49,126#

CONCRETE	
Class	Cu. Yds
Class #1	24.17
Pour No. 1	24.17
Pour No. 2	24.17
Pour No. 3	24.17
Pour No. 4	24.17
Pour No. 5	24.17
Pour No. 6	24.17
Pour No. 7	24.17
Pour No. 8	24.17
Pour No. 9	24.17
Pour No. 10	24.17
Total Class #1 (except Rolling Conc)	241.7
Class #1 Rolling Conc	1.1

MISCELLANEOUS	
Item	Quantity
6" Cast Iron Soil Pipe 20' x 24"	64'
Rolling Type 50# C	185 L. ft.

NOTE: For Reinf. Bar Notes see Br. Std. C.

SUPERSTRUCTURE BILL OF MATERIALS
INDIANA STATE HIGHWAY COMMISSION

SCALE: NONE
 SUBMITTED FOR APPROVAL: *James A. Wuest*
 DATE: OCTOBER 15, 1963
 DRAWING: CT OF 7
 PROJECT: 1-70-3(24) 65
 CONTRACT NO. 1-70-3(24) 65
 BRIDGE FILE: 1-70-65-508

DESIGNED BY: *ckd DEG*
 DRAWN BY: *DED CRD WZW*
 CHECKED BY: *ckd*

QUANTITIES

ITEM	CONCRETE		STEEL		WOOD		PAVING		DRAINAGE		ELECTRICAL		OTHER	
	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT	QTY	UNIT
101	100	cu yd	100	lb	100	cu yd	100	sq yd	100	sq yd	100	sq yd	100	sq yd
102	200	cu yd	200	lb	200	cu yd	200	sq yd	200	sq yd	200	sq yd	200	sq yd
103	300	cu yd	300	lb	300	cu yd	300	sq yd	300	sq yd	300	sq yd	300	sq yd
104	400	cu yd	400	lb	400	cu yd	400	sq yd	400	sq yd	400	sq yd	400	sq yd
105	500	cu yd	500	lb	500	cu yd	500	sq yd	500	sq yd	500	sq yd	500	sq yd
106	600	cu yd	600	lb	600	cu yd	600	sq yd	600	sq yd	600	sq yd	600	sq yd
107	700	cu yd	700	lb	700	cu yd	700	sq yd	700	sq yd	700	sq yd	700	sq yd
108	800	cu yd	800	lb	800	cu yd	800	sq yd	800	sq yd	800	sq yd	800	sq yd
109	900	cu yd	900	lb	900	cu yd	900	sq yd	900	sq yd	900	sq yd	900	sq yd
110	1000	cu yd	1000	lb	1000	cu yd	1000	sq yd	1000	sq yd	1000	sq yd	1000	sq yd

APPROACHES

ITEM	QTY	UNIT
111	100	sq yd
112	200	sq yd
113	300	sq yd
114	400	sq yd
115	500	sq yd
116	600	sq yd
117	700	sq yd
118	800	sq yd
119	900	sq yd
120	1000	sq yd

STRUCTURES

ITEM	QTY	UNIT
121	100	sq yd
122	200	sq yd
123	300	sq yd
124	400	sq yd
125	500	sq yd
126	600	sq yd
127	700	sq yd
128	800	sq yd
129	900	sq yd
130	1000	sq yd

PAVING

ITEM	QTY	UNIT
131	100	sq yd
132	200	sq yd
133	300	sq yd
134	400	sq yd
135	500	sq yd
136	600	sq yd
137	700	sq yd
138	800	sq yd
139	900	sq yd
140	1000	sq yd

UNCLASSIFIED SPARE

ITEM	QTY	UNIT
141	100	sq yd
142	200	sq yd
143	300	sq yd
144	400	sq yd
145	500	sq yd
146	600	sq yd
147	700	sq yd
148	800	sq yd
149	900	sq yd
150	1000	sq yd

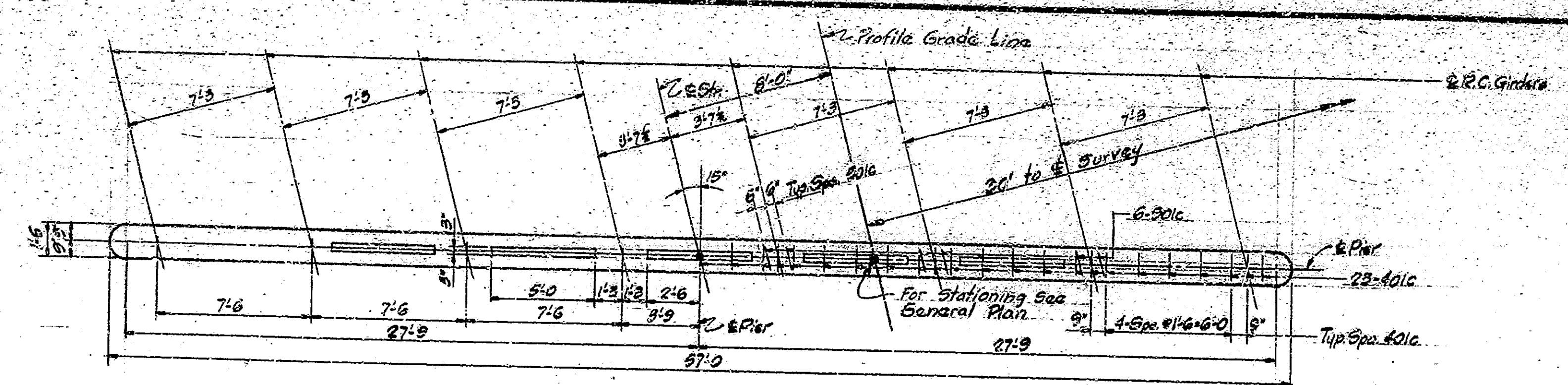
SUMMARY

ITEM	DESCRIPTION	UNIT	QUANTITY
101	Concrete	cu yd	467.0
102	Steel	lb	119.6
103	Wood	cu yd	94.4
104	Paving	sq yd	119.665
105	Drainage	sq yd	
106	Electrical	sq yd	
107	Other	sq yd	
108	Approaches	sq yd	
109	Structures	sq yd	
110	Paving	sq yd	
111	Approaches	sq yd	
112	Structures	sq yd	
113	Paving	sq yd	
114	Approaches	sq yd	
115	Structures	sq yd	
116	Paving	sq yd	
117	Approaches	sq yd	
118	Structures	sq yd	
119	Paving	sq yd	
120	Approaches	sq yd	
121	Structures	sq yd	
122	Paving	sq yd	
123	Approaches	sq yd	
124	Structures	sq yd	
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151	Structures	sq yd	
152	Paving	sq yd	
153	Approaches	sq yd	
154	Structures	sq yd	
155	Paving	sq yd	
156	Approaches	sq yd	
157	Structures	sq yd	
158	Paving	sq yd	
159	Approaches	sq yd	
160	Structures	sq yd	

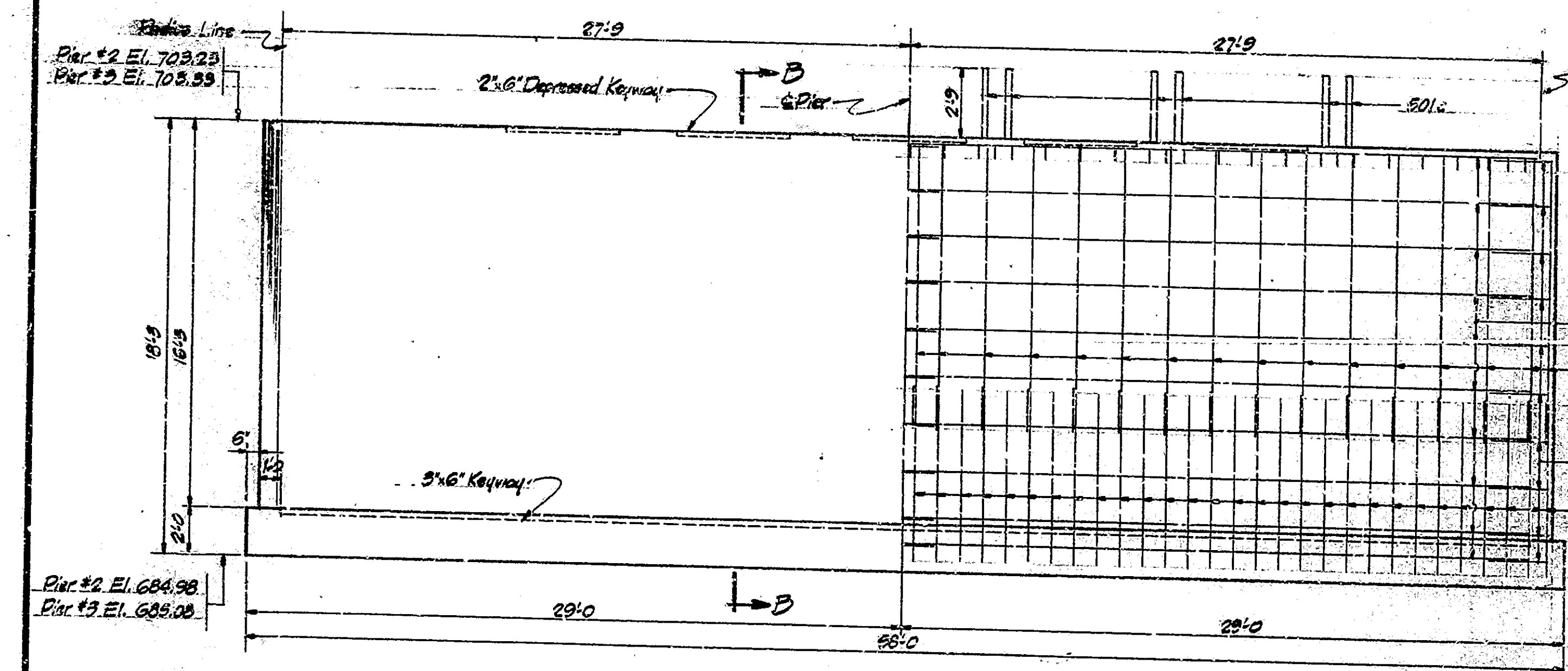
SUMMARY
INDIANA STATE HIGHWAY COMMISSION
 OCTOBER 18, 1933

ENGINEER FOR PROJECT: _____
 PROJECT NO. 11-0-312465
 CONTRACT NO. 11-0-312465
 QUANTITY: 70 00 000

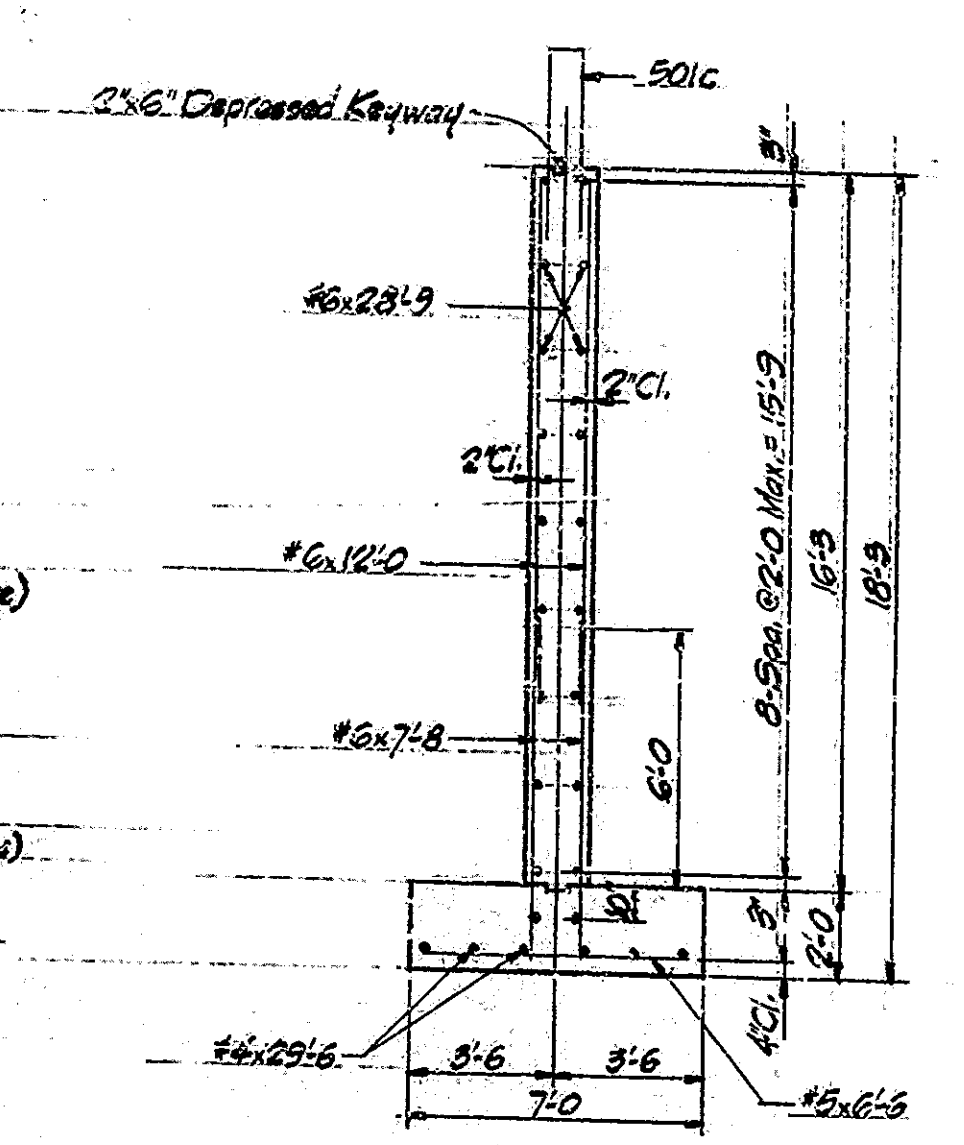
BRIDGES OVER 20' SPAN					
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	2-70-3 (24) 65	1966	13C	21



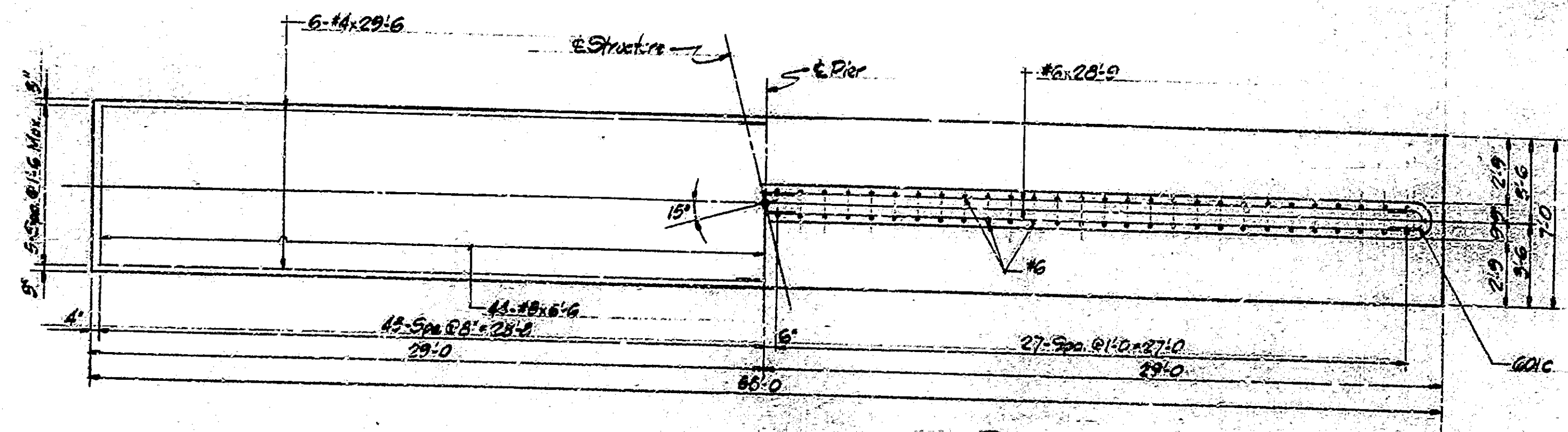
CAP PLAN



ELEVATION



SECTION B-B

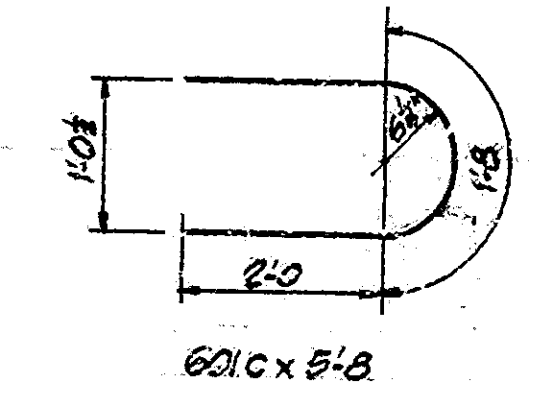


FOOTING PLAN

BILL OF MATERIALS
ONE PIER

REINFORCING STEEL			
SIZE & MARK	NO OF BARS	LENGTH (LOS)	WEIGHT
#6	20	5'-8"	
#6	20	23'-9"	
#6	82	12'-0"	
#6	114	7'-8"	
Total #6			4378
#10	12	5'-8"	
#8	87	6'-8"	
Total #8			709
#10	12	2'-2"	
#8	12	23'-6"	
Total #8			302
Total Steel			5389
CONCRETE			
Class E Above Ftg.			81.2 cu.
Class E Ftg.			30.1 cu.

Mark	a	b	Length
501c	1'-2"	4'-2"	5'-6"
401c	1'-2"	6'	2'-2"



601c x 5-8

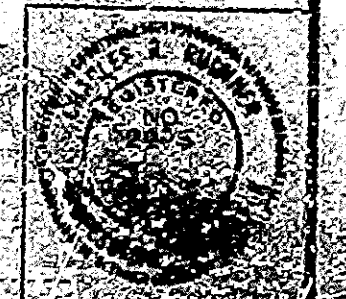
DESIGNED: CKD
DRAWN: CKD
CHECKED: CKD
TRACED: CKD

Note: See B-5, B-6, C-1, C-2, C-3, C-4, C-5, C-6, C-7, C-8, C-9, C-10, C-11, C-12, C-13, C-14, C-15, C-16, C-17, C-18, C-19, C-20, C-21, C-22, C-23, C-24, C-25, C-26, C-27, C-28, C-29, C-30, C-31, C-32, C-33, C-34, C-35, C-36, C-37, C-38, C-39, C-40, C-41, C-42, C-43, C-44, C-45, C-46, C-47, C-48, C-49, C-50, C-51, C-52, C-53, C-54, C-55, C-56, C-57, C-58, C-59, C-60, C-61, C-62, C-63, C-64, C-65, C-66, C-67, C-68, C-69, C-70, C-71, C-72, C-73, C-74, C-75, C-76, C-77, C-78, C-79, C-80, C-81, C-82, C-83, C-84, C-85, C-86, C-87, C-88, C-89, C-90, C-91, C-92, C-93, C-94, C-95, C-96, C-97, C-98, C-99, C-100, C-101, C-102, C-103, C-104, C-105, C-106, C-107, C-108, C-109, C-110, C-111, C-112, C-113, C-114, C-115, C-116, C-117, C-118, C-119, C-120, C-121, C-122, C-123, C-124, C-125, C-126, C-127, C-128, C-129, C-130, C-131, C-132, C-133, C-134, C-135, C-136, C-137, C-138, C-139, C-140, C-141, C-142, C-143, C-144, C-145, C-146, C-147, C-148, C-149, C-150, C-151, C-152, C-153, C-154, C-155, 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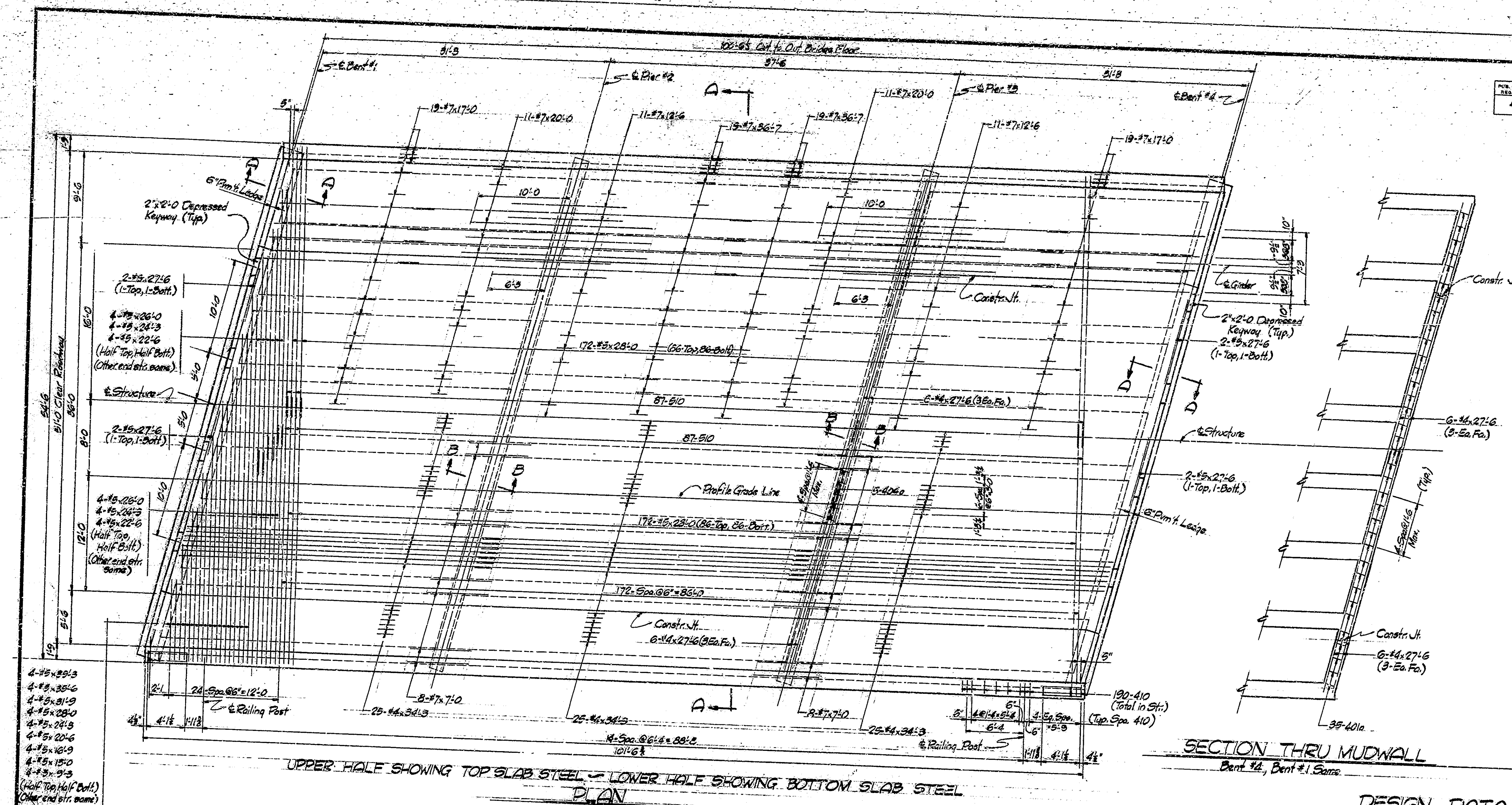
PIER #2 & #3
WEST BOUND STRUCTURE
INDIANA STATE HIGHWAY COMMISSION

SCALE: 1/4"=1'-0"
RECOMMENDED FOR APPROVAL: [Signature] JUNE 6, 1966

DRAWING: C-10 OF
PROJECT: 2-70-3
BRIDGE CONTRACT NO. 3-7115
BRIDGE FILE: 2-70-3-21



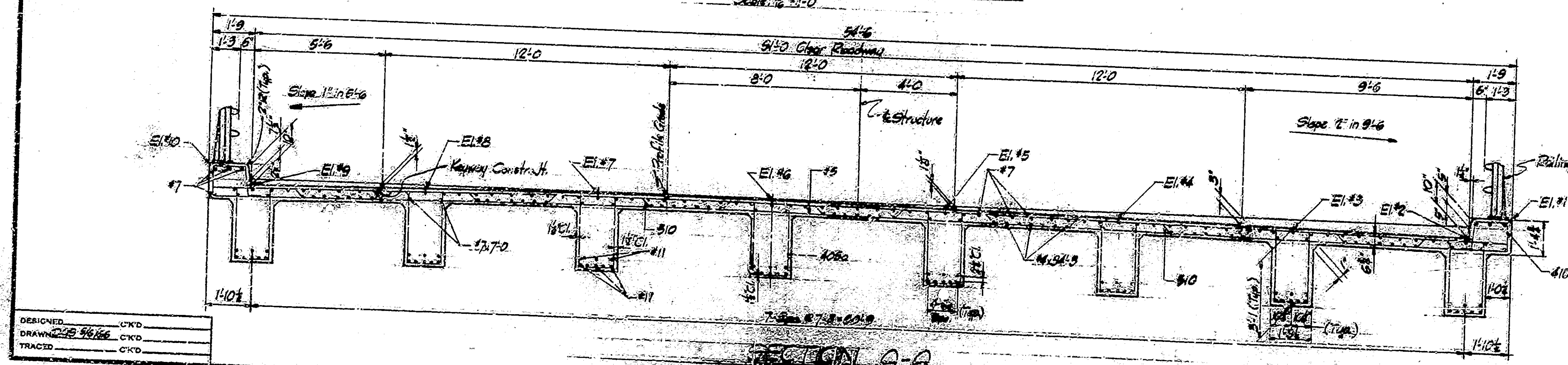
BRIDGES OVER 20' SPAN					
PIER, BOLD	SPAN	PROJECT	FISCAL	ENGINEER	TOTAL
NO.	NO.	NO.	YEAR	NO.	LENGTH
4	IND.	2-70-2	1966	13D	21
		(26) 65			



SECTION THRU MUDWALL
Bent #4, Bent #1 Same

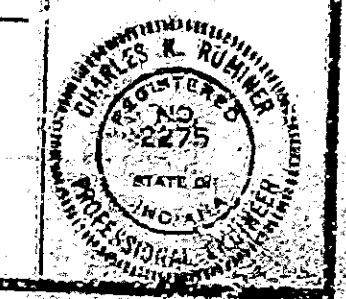
DESIGN DATA

Unit Stresses: $f_c = 20,000 \text{ psi}$, $f_s = 120,000 \text{ psi}$
 Live Load: HS 20-44 loading with impact and distribution of loads in accordance with 1961 A.R.S.H.O. Specifications.
 Dead Load: Increased 38% p.f. of roadway for future wearing surface. Slab designed with 1/2" wearing surface.



SUPERSTRUCTURE DETAILS
WESTBOUND STRUCTURE
INDIANA STATE HIGHWAY COMMISSION

SCALE: As Noted
 RECOMMENDED FOR APPROVAL: *Ch. R. ...* JUNE 6, 1966
 DRAWING: C11 OF
 PROJECT: 2-70-2 (26) 65
 BRIDGE CONTRACT NO. B-7118
 BRIDGE FILE: 2-70-2 (26) 65

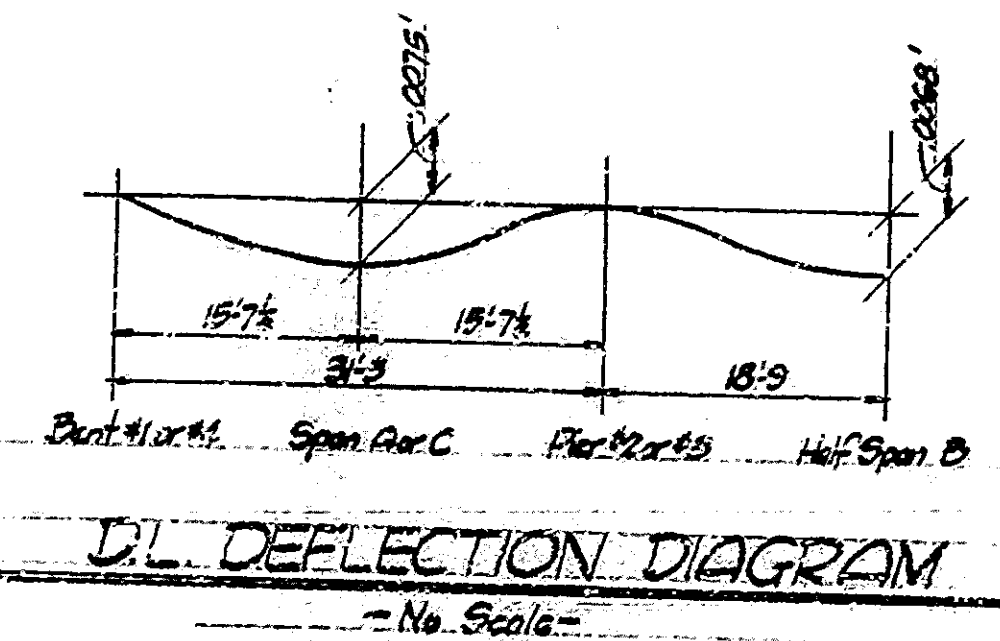
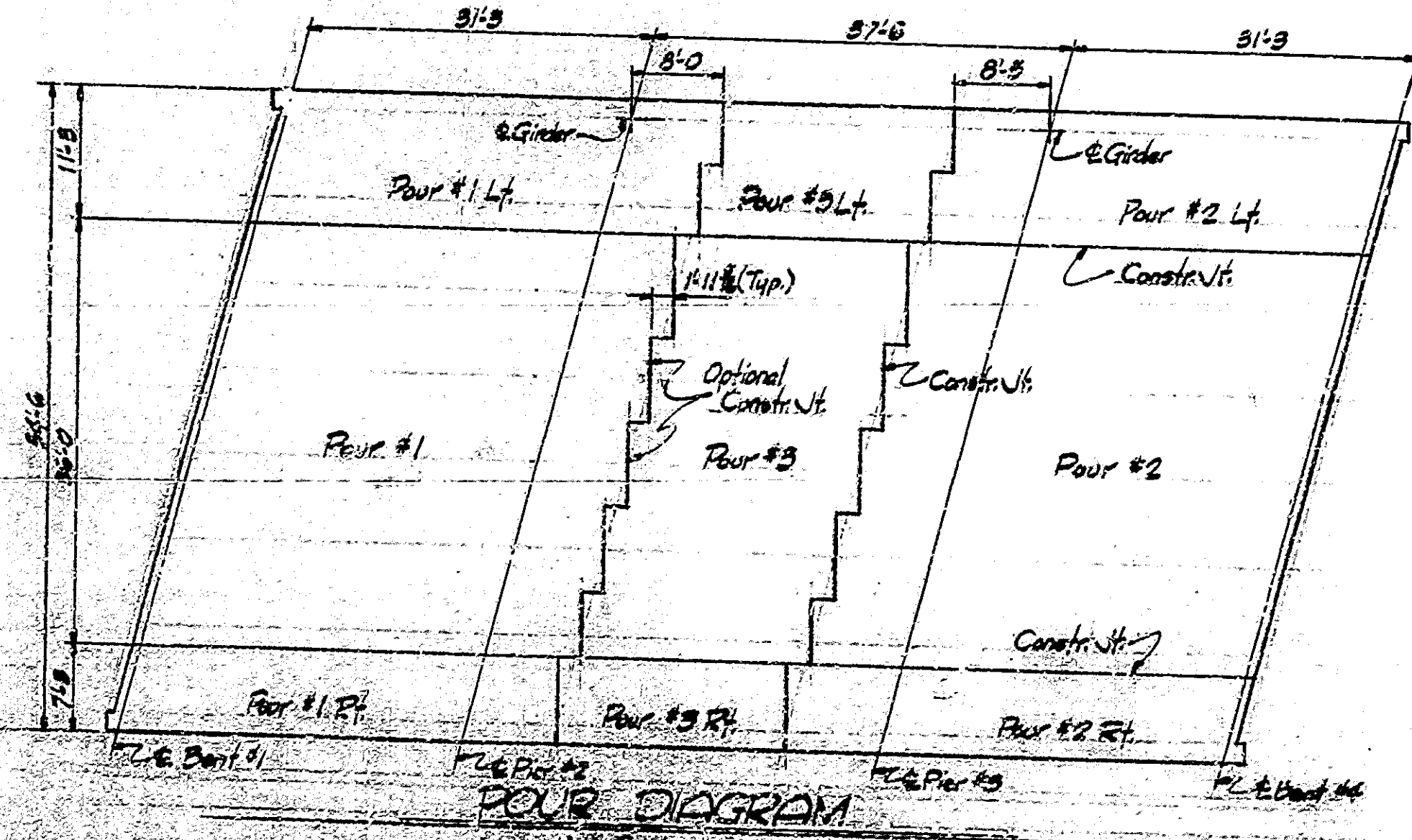
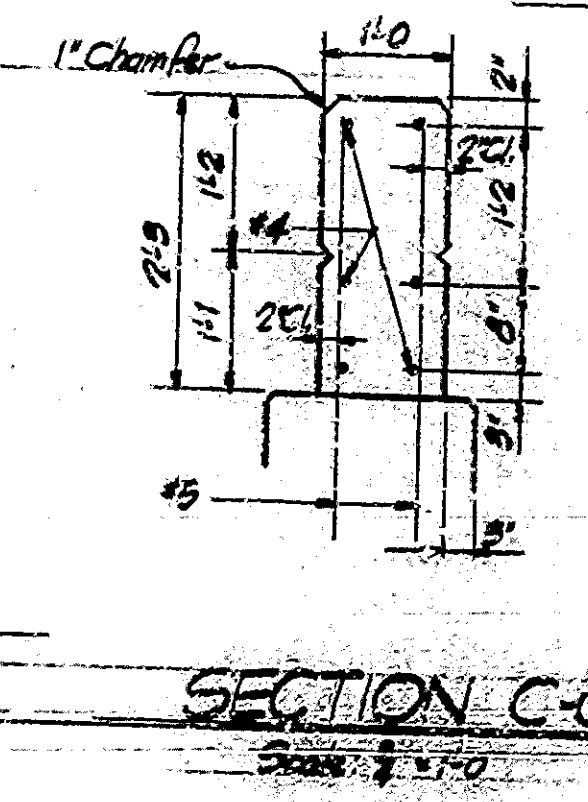
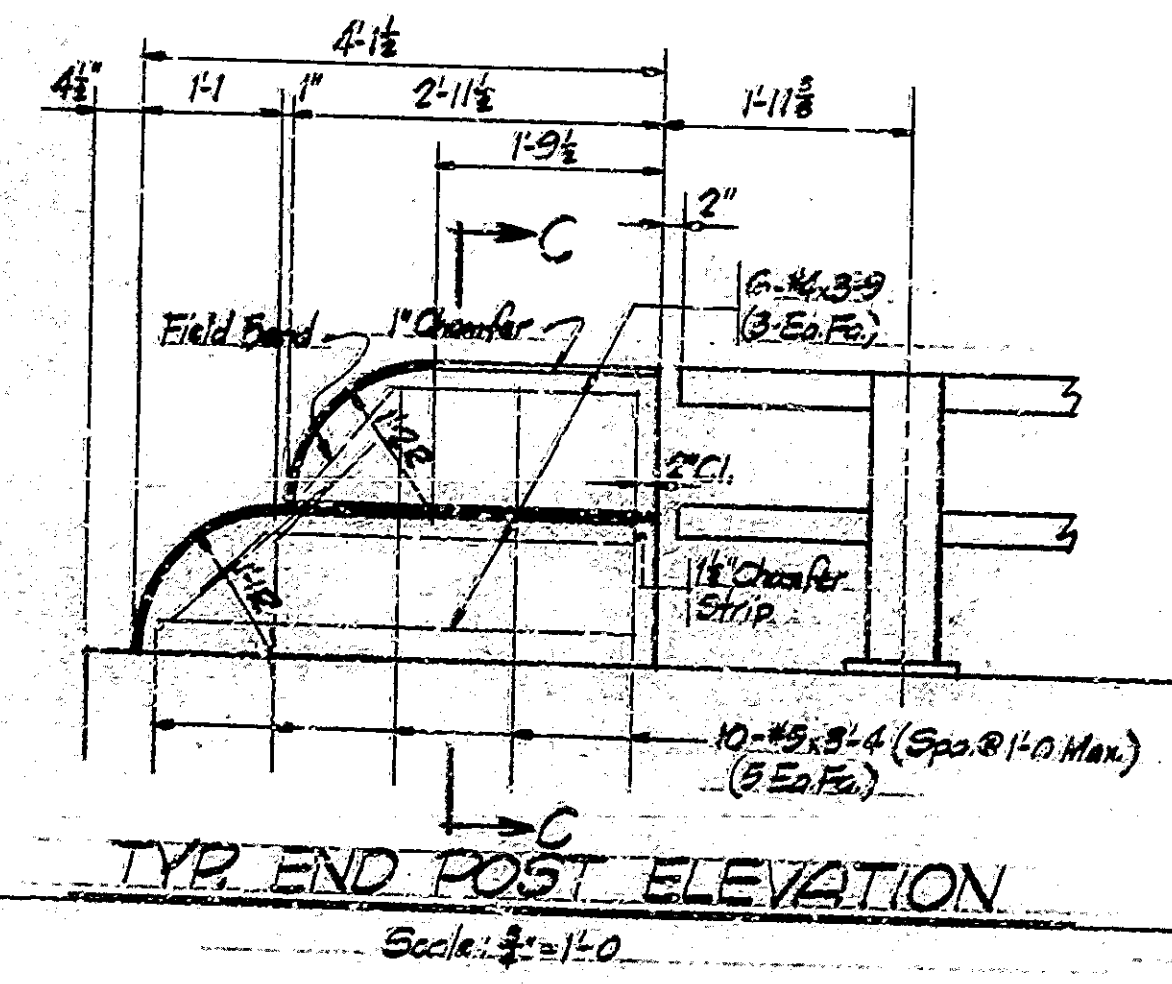
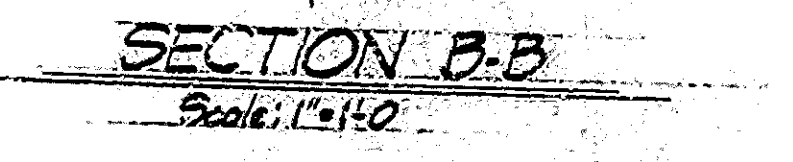
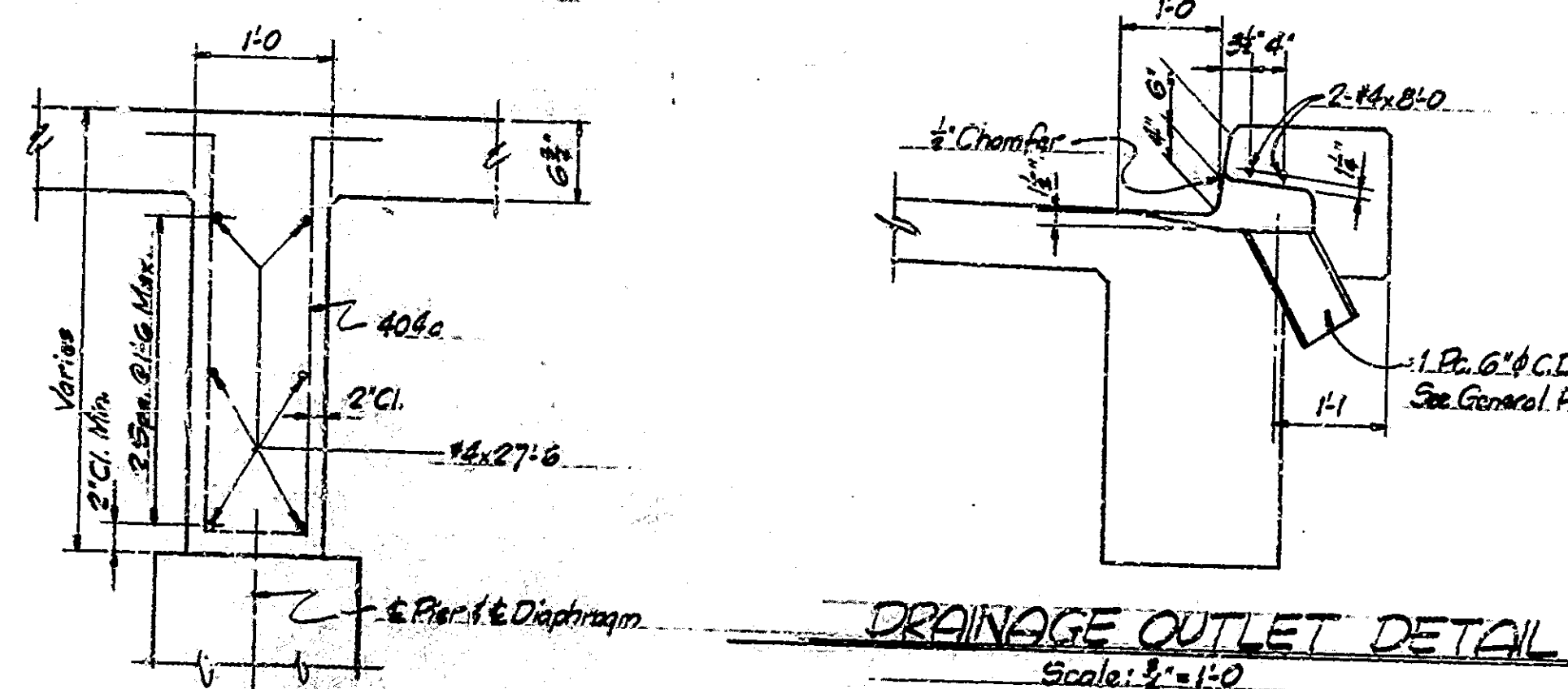
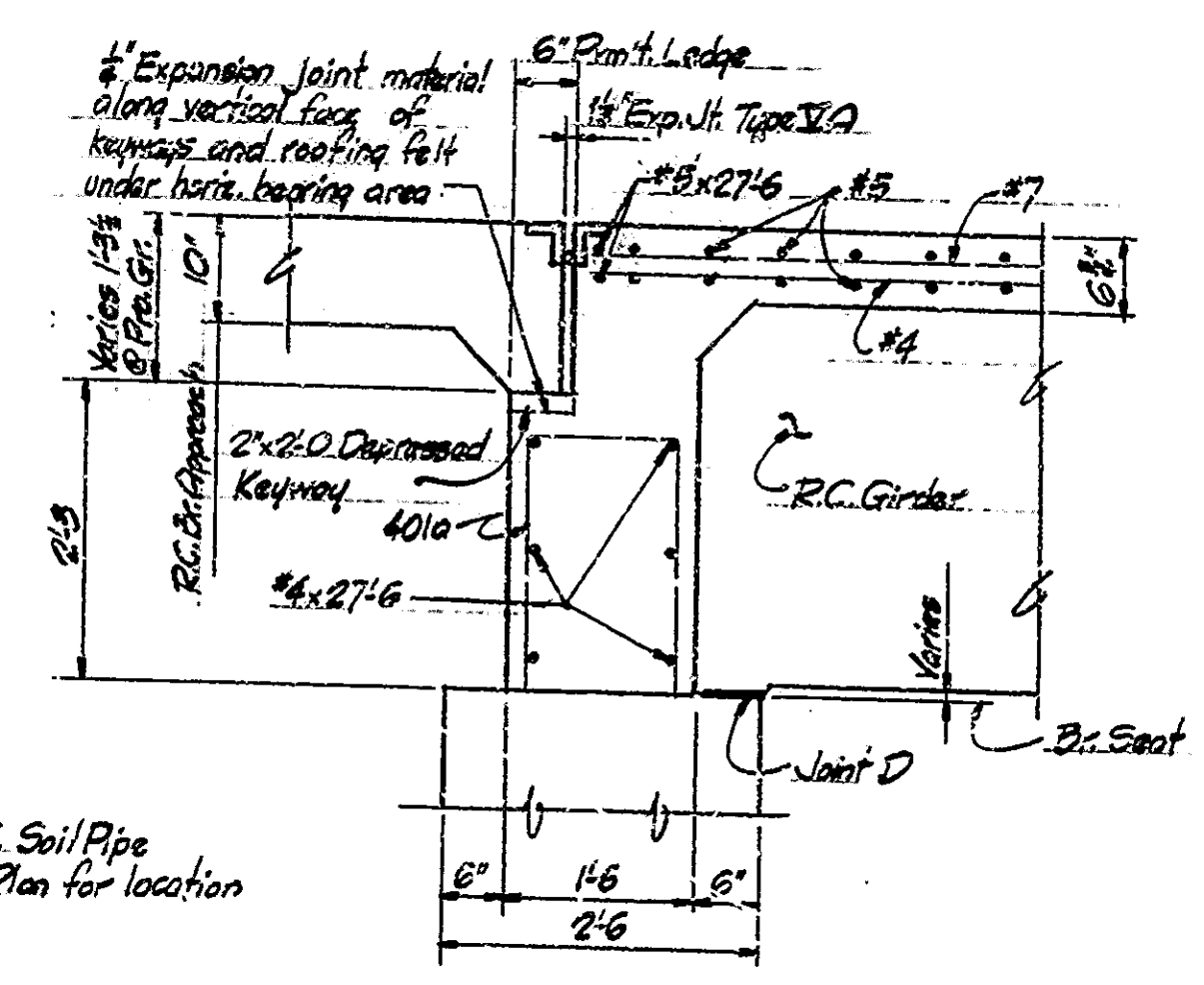
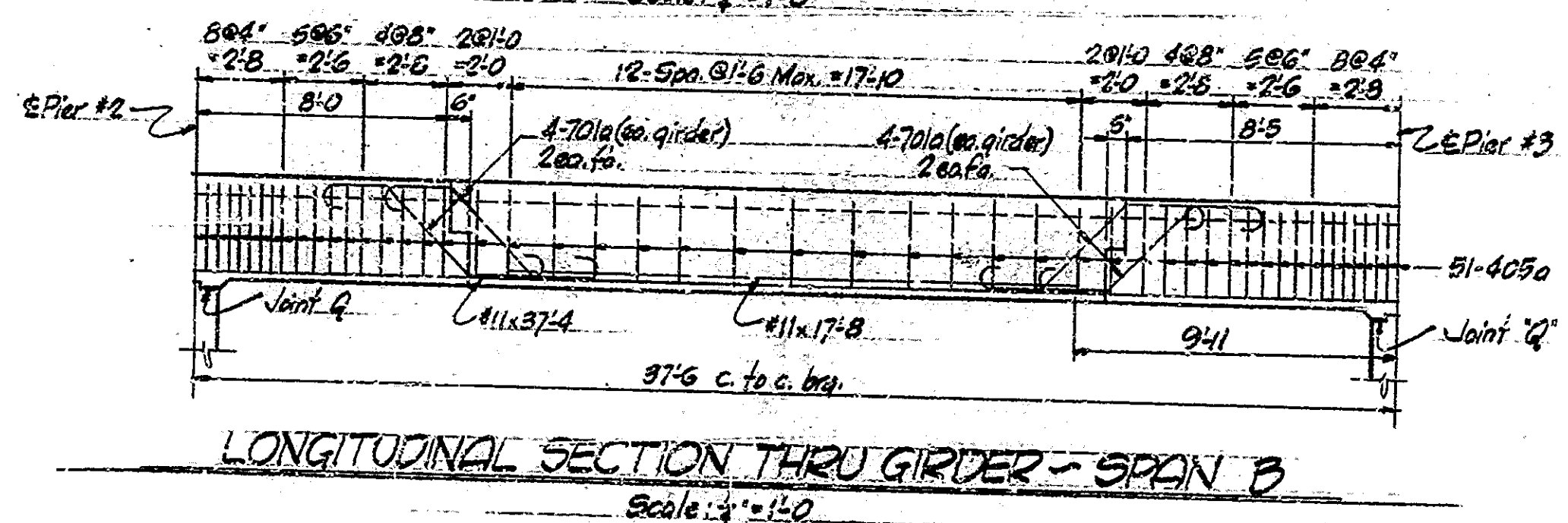
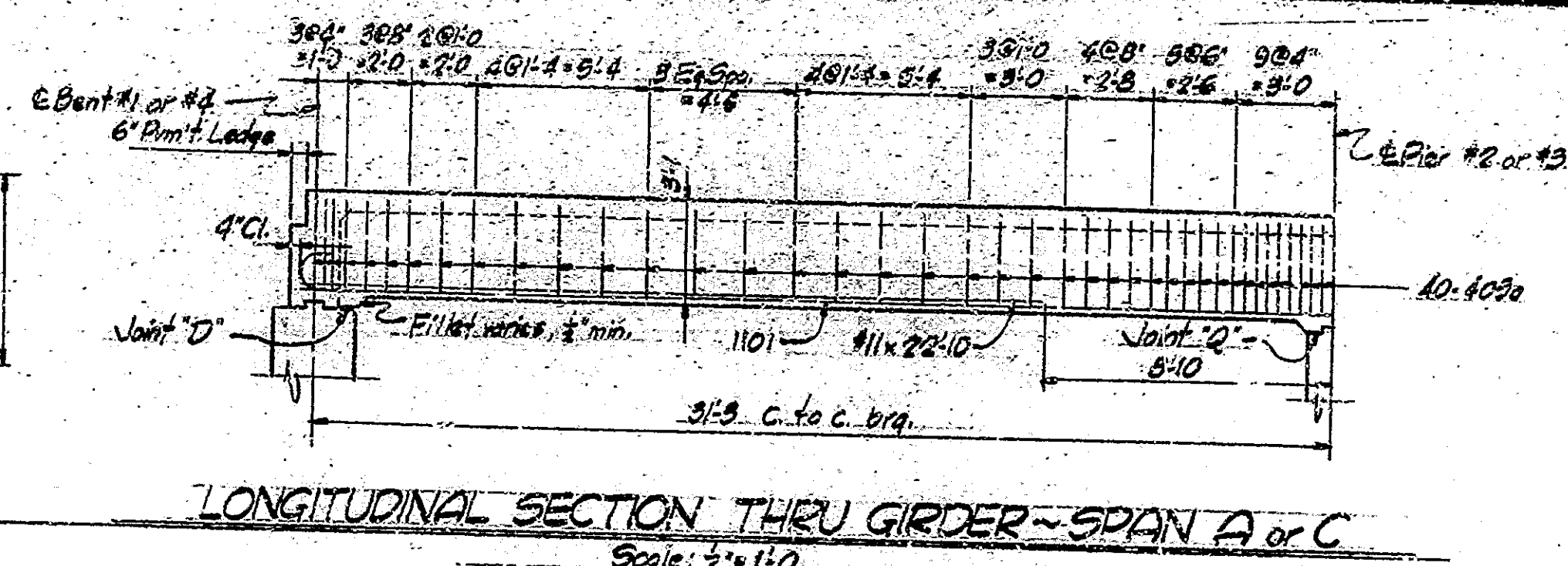
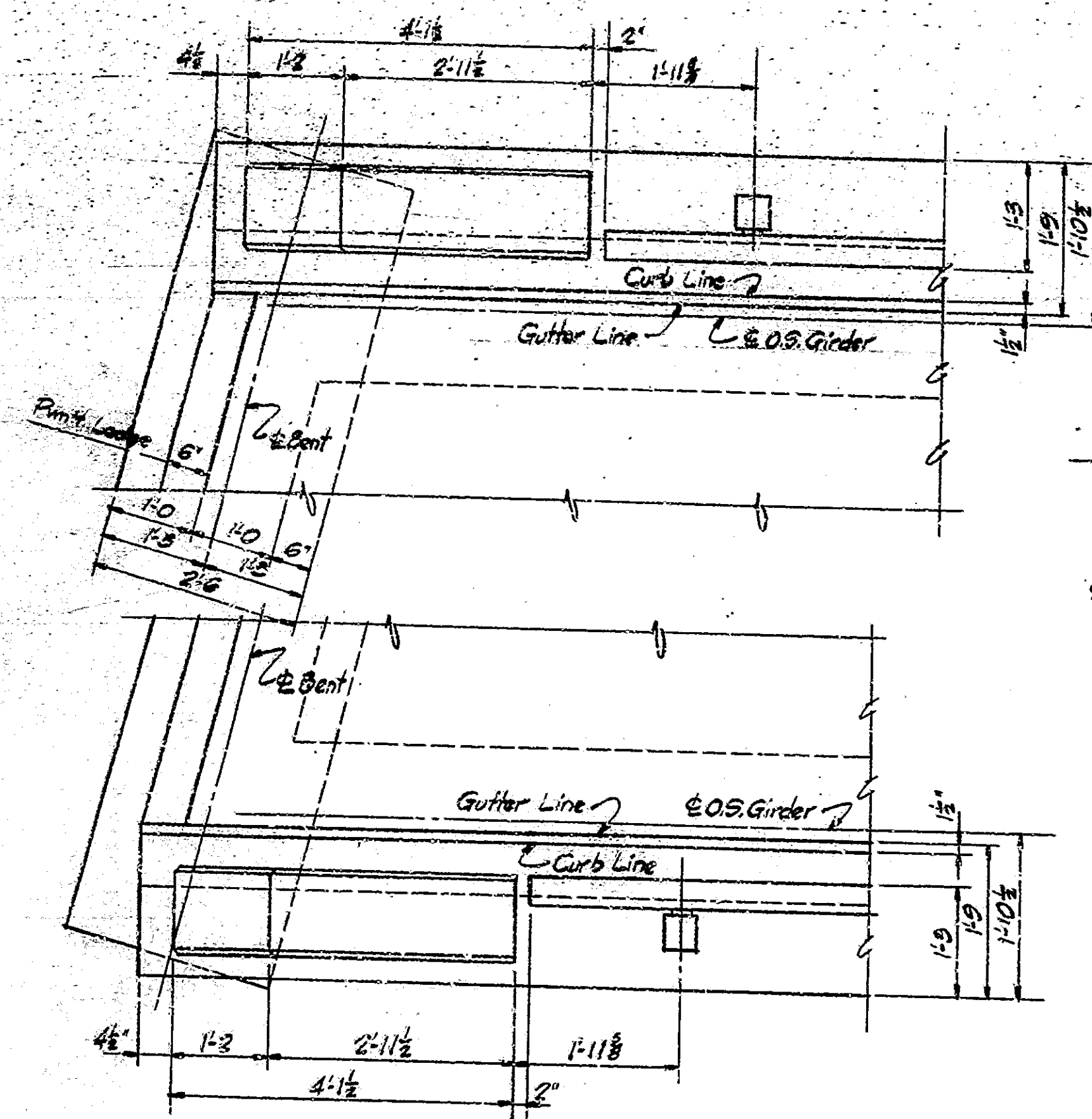


DESIGNED: CKD
 DRAWN: CKD
 TRACED: CKD

BRIDGES OVER 20' SPAN				
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
4	IND.	170-3 (41)63	1965	21

CONTROL ELEVATIONS				
PI.	2 Bent #1	2 Pier #2	2 Pier #3	2 Bent #4
1	707.11	707.18	707.29	707.39
2	706.23	706.35	706.45	706.56
3	705.40	706.47	706.58	706.68
4	705.51	706.55	706.65	706.75
5	706.53	706.66	706.76	706.86
6	706.65	706.72	706.82	706.92
7	706.66	706.73	706.82	706.92
8	706.97	706.84	706.74	706.83
9	706.16	706.53	706.62	706.72
10	707.29	707.36	707.45	707.55

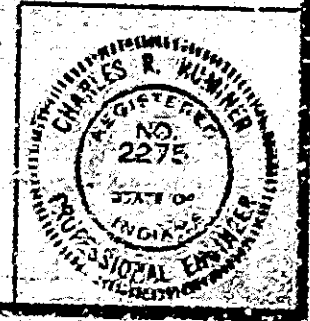
Note: See Section A-A Dem. C.U. for Control Points



SUPERSTRUCTURE DETAILS
WEST BOUND STRUCTURE
INDIANA STATE HIGHWAY COMMISSION

SCALE: As Noted
RECOMMENDED FOR APPROVAL: C.R. Rimmer
JUNE 8, 1966

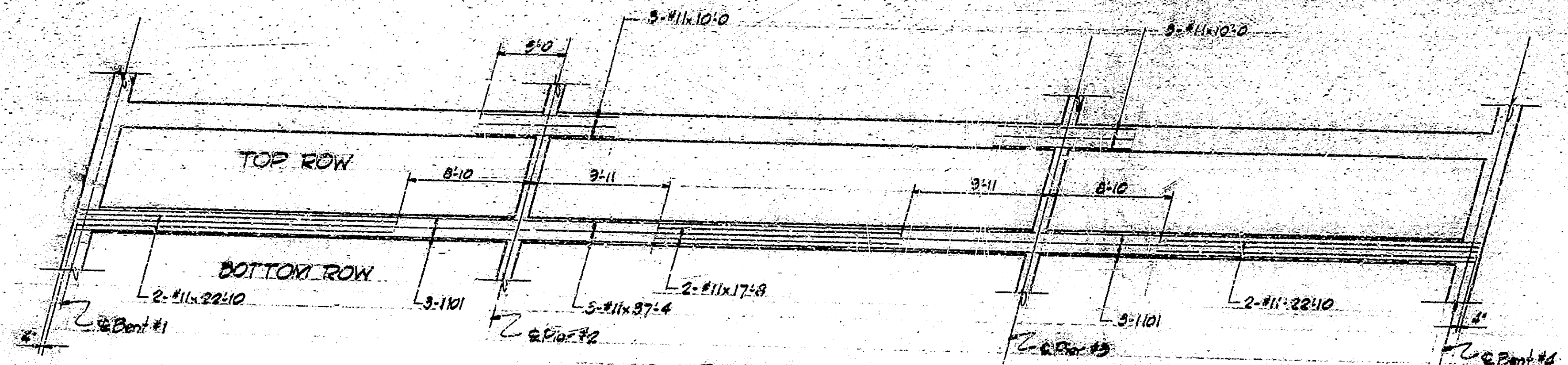
DRAWING: C-18 OF
PROJECT: 170-3(41)63
BRIDGE CONTRACT NO. R-718
BRIDGE FILE: 170-3-1006



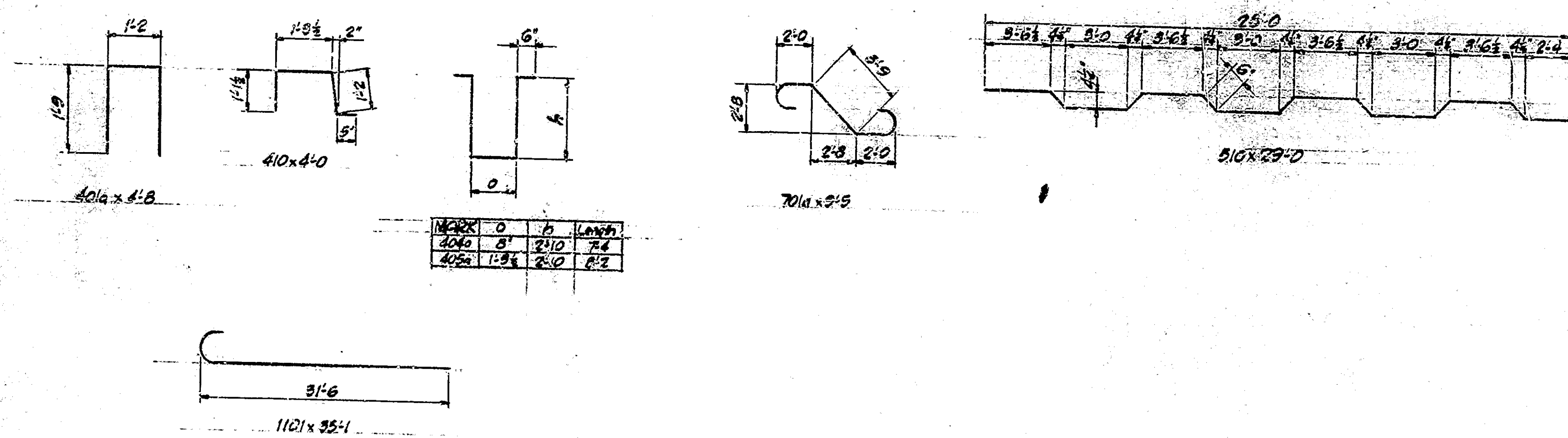
DESIGNED: CWD
DRAWN: CWD
TRACED: CWD

Note: See Dr. Gld. C. for Reinforcing Bar Notes.

BRIDGES OVER 20' SPAN				
PUB. ROAD	STATE	PROJECT	FISCAL	TOTAL
NO.		NO.	YEAR	AMOUNT
4	IND.	170-3	1968	21
		5165	1968	21



PLAN
SHOWING BOTTOM GIRDER STEEL
Scale: 3/8" = 1'-0"



BILL OF MATERIALS

REINFORCING STEEL			
SIZE & MARK	NO OF BARS	LENGTH	WEIGHT (LBS)
#10	48	33'-1"	
#11	24	8'-1"	
#11	32	22'-0"	
#11	16	17'-8"	
#11	46	10'-0"	
Total #11			21,132
#7	64	8'-3"	
#7	76	25'-7"	
#7	44	20'-0"	
#7	76	17'-0"	
#7	42	12'-6"	
#7	52	7'-0"	
Total #7			12,880
#10	174	23'-0"	
#5	8	59'-8"	
#5	8	33'-6"	
#5	8	31'-9"	
#5	352	28'-0"	
#5	8	27'-6"	
#5	16	26'-0"	
#5	24	25'-6"	
#5	16	22'-6"	
#5	8	20'-6"	
#5	8	16'-9"	
#5	8	15'-0"	
#5	8	9'-9"	
#5	40	5'-6"	
Total #5			10,710
40 1/2	79	4'-8"	
40 1/2	70	7'-4"	
40 1/2	104	8'-2"	
#4	190	4'-0"	
#4	47	4'-0"	
#4	48	3'-7"	
#4	4	8'-0"	
#4	24	3'-9"	
Total #4			11,112
TOTAL STEEL			63,843
CONCRETE			
Class F'			
POUR #1			620 cu. yd.
POUR #1 LT			239 "
POUR #1 RT			137 "
POUR #2			699 "
POUR #2 LT			282 "
POUR #2 RT			139 "
POUR #3 LT			123 "
POUR #3 RT			77 "
Total			2768 cu. yd.
Rolling Concrete			1.1 cu. yd.
MISCELLANEOUS			
1" Dia. x 1/2" Thick Bars			100 LBS
Rolling Pins 3" Dia			100 LBS
Cast Iron Pins 3/4" Dia x 6" Long			50 lbs

SUPERSTRUCTURE DETAILS
INDIANA STATE HIGHWAY COMMISSION

SCALE: As Noted DATE: JUNE 6, 1968

RECOMMENDED FOR APPROVAL: *C.R. Rimmer*

DRAWING: C-4 OF PROJECT: 170-3-170-3
BRIDGE CONTRACT NO. R-7113
BRIDGE FILE: 170-3-170-3



DESIGNED: CTD
DRAWN: 225 8866 CTD. EMM
TRACED: CTD

Notes: See S. 241' E. Sec. 16, Township 36 N., Range 10 E., Meridian 12 W.

