

BRIDGES OVER 20' SPAN					
FISCAL YEAR	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	100284	1957	7	27

INDEX						
SHEET NO.	SHEET DESIGNATION	SUBJECT				
1	INDEX SHEET	INDEX & TITLE SHEET				
2	INDEX SHEET	STANDARD VEHICLE SECTIONS - FA INTERSTATE PROJECTS (REV. 11-26-57)				
3	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
4	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
5	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
6	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
7	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
8	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
9	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
10	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
11	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
12	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
13	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
14	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
15	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
16	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
17	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
18	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
19	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
20	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
21	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
22	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
23	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
24	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
25	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
26	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
27	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
28	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
29	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
30	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
31	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
32	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
33	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
34	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
35	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
36	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				
37	ROAD PROFILE	ROAD PROFILE - ROAD PROJECT NO. 1-03-103				

STATE OF INDIANA
STATE HIGHWAY DEPARTMENT

BRIDGE PLANS
FOR SPANS OVER 20 FEET
ON
STATE A PROJECT NO. 1-03-103 SECTION B
BRIDGE OVER ELK RUN & MUDDY FORK

TRAFFIC DATA
For 31-B9-4142 & 31-B9-4138
A.D.T. (1958) 12,503 V.P.D.
A.D.T. (1978 PROJECTED) 23,006 V.P.D.
TRUCKS 15%
DESIGN SPEED 70 M.P.H.
ACCESS CONTROL FULL

BEGINNING AT A POINT APPROXIMATELY 1/4 MILE SOUTH OF NORTH LINE OF SECTION 130 AND EXTENDING NORTH A DISTANCE OF 451' TO A POINT APPROXIMATELY 1/2 MILE SOUTH OF EAST LINE OF SECTION 14 & ALL IN NORTH EAST SECTIONS 130 AND 143 CLARK MILITARY BRANT CLARK COUNTY WITH PARALLEL TO SECTION 143 IN SECTION 143 CLARK COUNTY

BEGINNING AT A POINT ON THE LINE OF PROPOSED U.S. HIGHWAY 40 SOUTH OF THE INTERSECTION OF CENTER LINE OF PROPOSED U.S. HIGHWAY 40 & MUDY FORK CHANNEL CHANGE (LINE "A-C") 571.1450 ON CENTER LINE OF PROPOSED U.S. 40 AND EXTENDING NORTH A DISTANCE OF 1601.7000 POINT OF PROPOSED U.S. 40 2307.6 NORTH OF ANGLE ROAD TERRACE ON THE SOUTH SIDE 141 OF CLARK MILITARY BRANT CLARK COUNTY

ROWY LENGTH	0.058 MILES		
BRIDGE LENGTH	0.007 MILES	31-B9-4142	MAXIMUM GRADE = 0.126%
TOTAL LENGTH	0.066 MILES		
ROWY LENGTH	0.092 MILES		
BRIDGE LENGTH	0.035 MILES	31-B9-4138	MAXIMUM GRADE = 0.14%
TOTAL LENGTH	0.087 MILES		

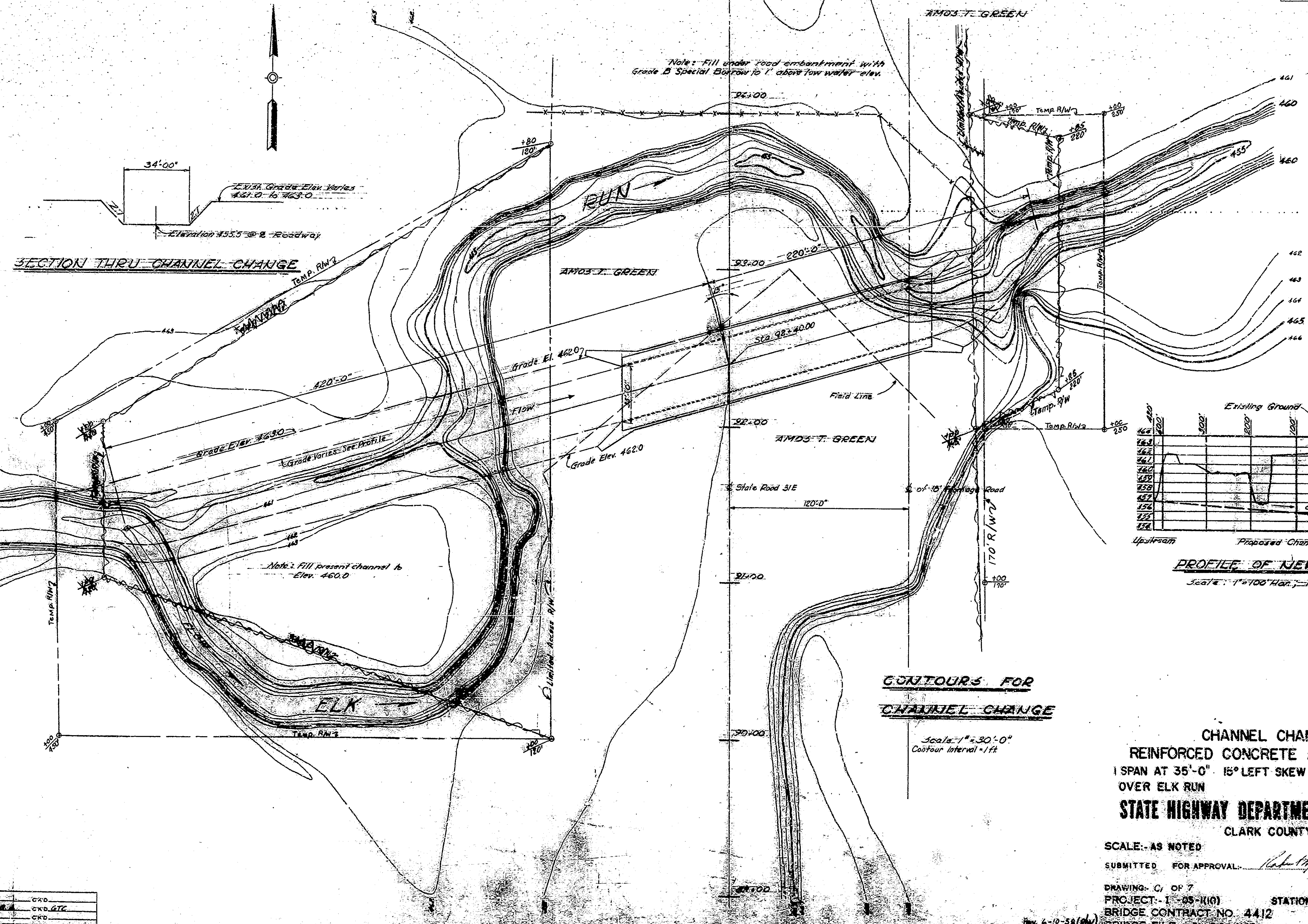
REV. 6-10-58 SHEET NAG
REV. 3-22-61 SHEET N01 (Lanes & Channel) as Constructed

APPROVED AND ADOPTED
BY STATE HIGHWAY DEPARTMENT OF INDIANA
John C. ...
CHIEF ENGINEER

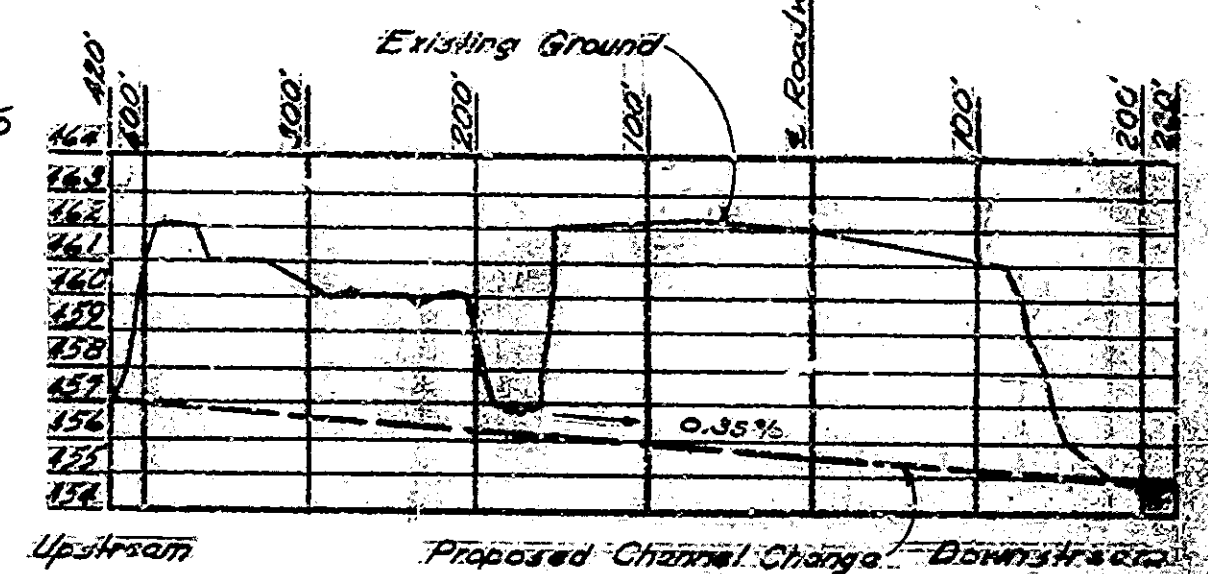
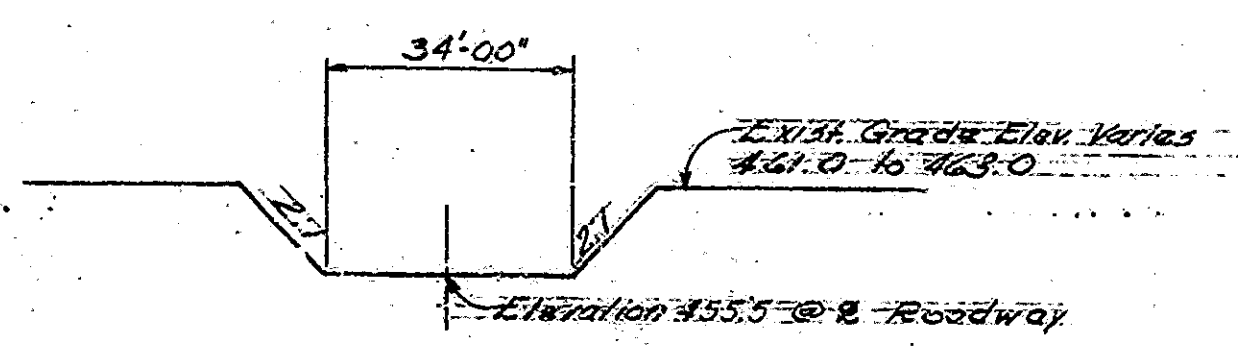
APPROVED
W. H. ...
CHIEF ENGINEER

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED
[Signature]

BRIDGES OVER 20' SPAN					
PUB. ROAD REG. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1-05-1028	1957	6	37



SECTION THRU CHANNEL CHANGE



PROFILE OF NEW CHANNEL
Scale: 1" = 100' Hor., 1" = 5' Vert.

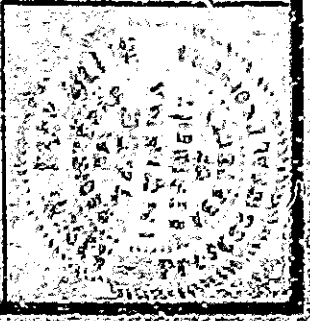
CONTOURS FOR CHANNEL CHANGE

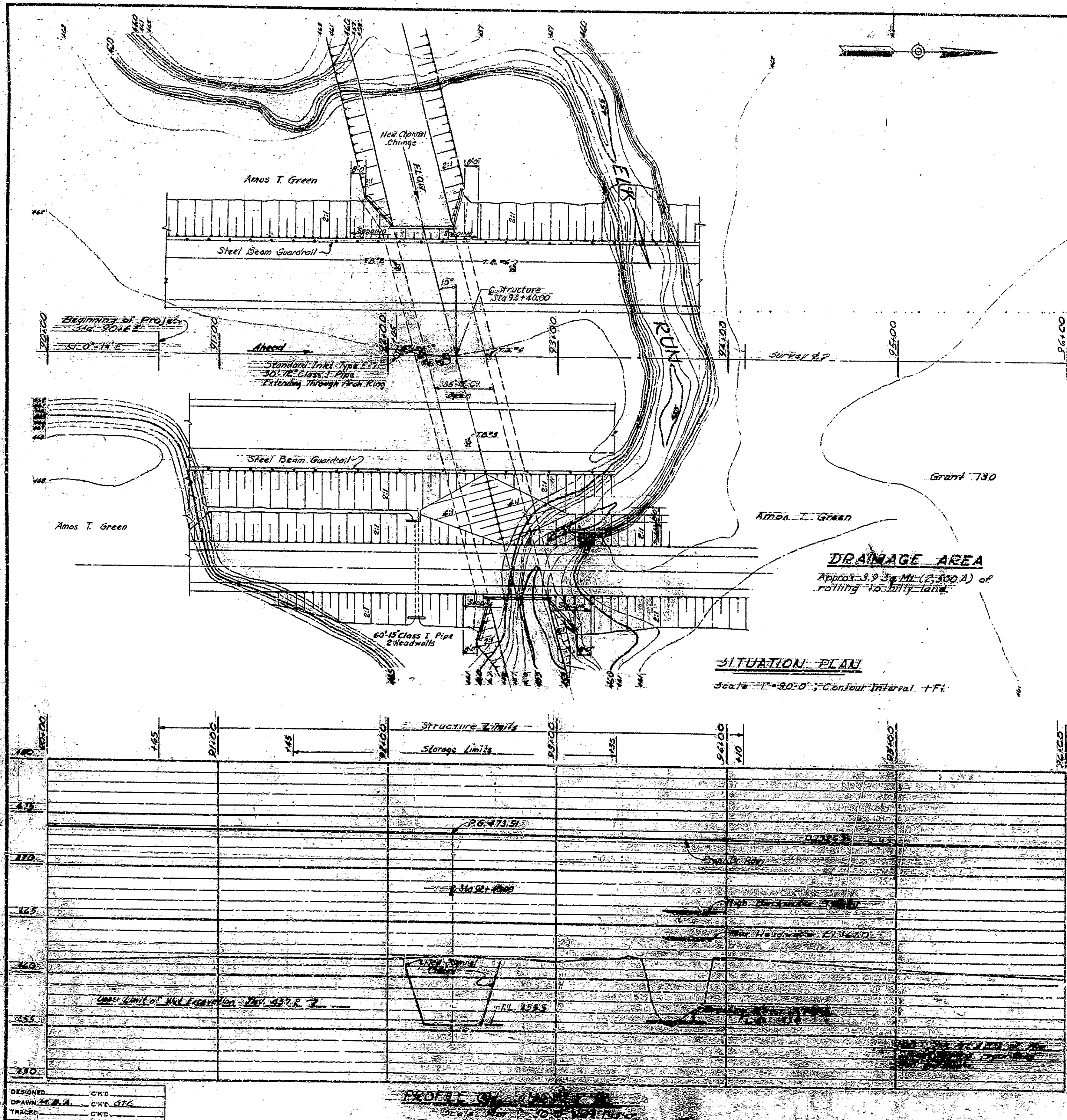
Scale: 1" = 30'-0"
Contour Interval = 1ft

CHANNEL CHANGE
REINFORCED CONCRETE ARCH BRIDGE
 1 SPAN AT 35'-0" 15° LEFT SKEW 128'-0" ROADWAY
 OVER ELK RUN ON U.S. 31E
STATE HIGHWAY DEPARTMENT OF INDIANA
 CLARK COUNTY

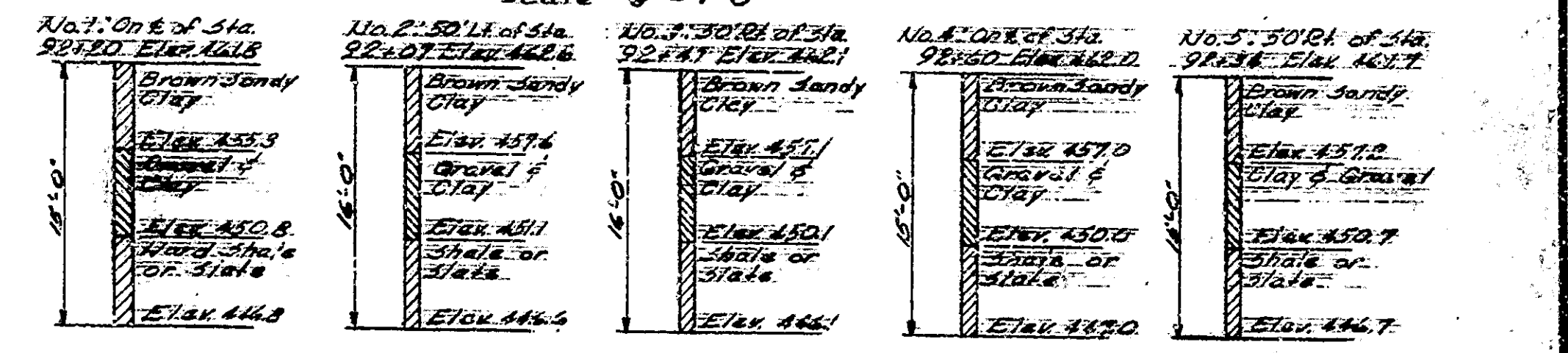
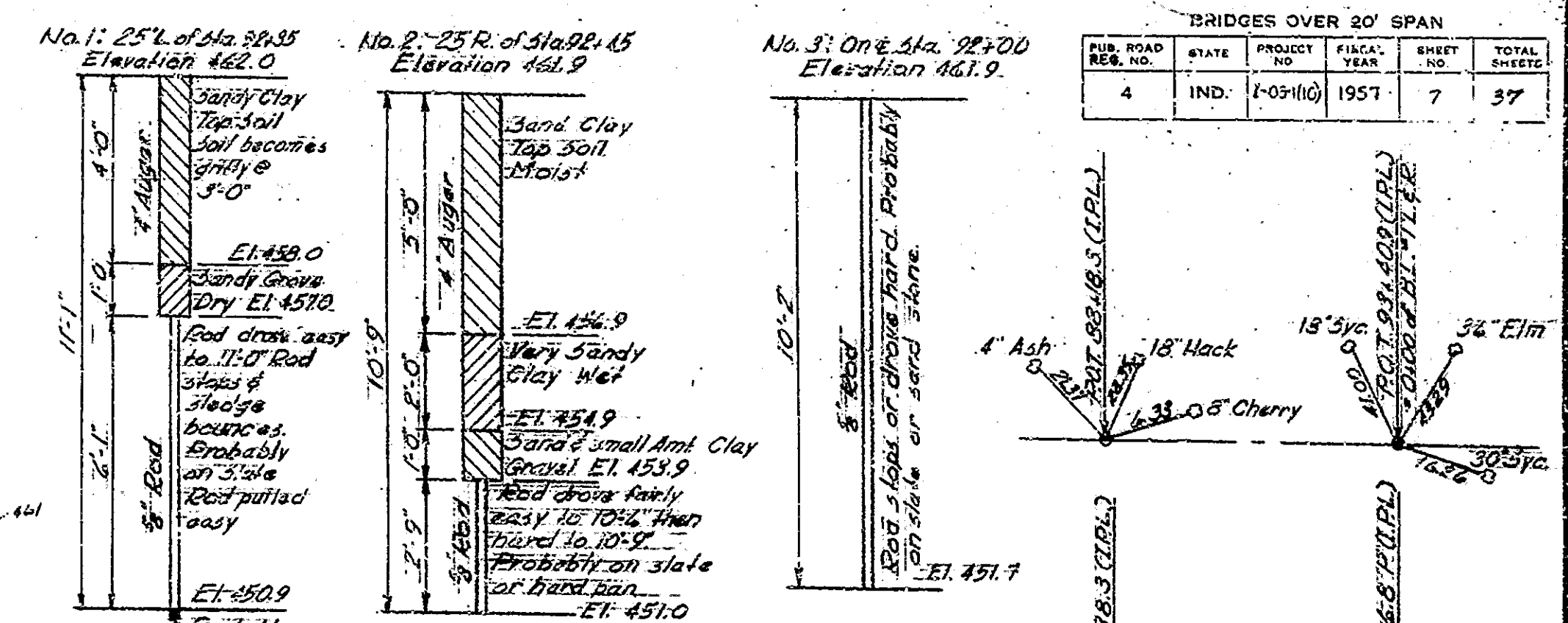
SCALE: AS NOTED
 SUBMITTED FOR APPROVAL: *[Signature]*
 DRAWING: C1 OF 7
 PROJECT: 1-05-1028 STATION: 92+40
 BRIDGE CONTRACT NO. 4412
 BRIDGE FILE: 81-05-4412

DESIGNED	C.W.D.
DRAWN	C.W.D./G.T.C.
TRACED	C.W.D.





DRAINAGE AREA
Approx. 3.9 Sq. Mi. (2,300 A) of rolling to hilly land.



FINAL TEST BORINGS
Not to Scale

LAYOUT
REINFORCED CONCRETE ARCH BRIDGE
 1 SPAN AT 35'-0" 15° LEFT SKEW 128'-0" ROADWAY
 OVER ELK RUN ON US 31E
STATE HIGHWAY DEPARTMENT OF INDIANA
 CLARK COUNTY

SCALE: AS NOTED
 SUBMITTED FOR APPROVAL: [Signature]
 DRAWING: C2 OF 7
 PROJECT: 1-03-1110 STATION: 92+80
 BRIDGE CONTRACT NO. 4412
 BRIDGE FILE: 31-99-4142

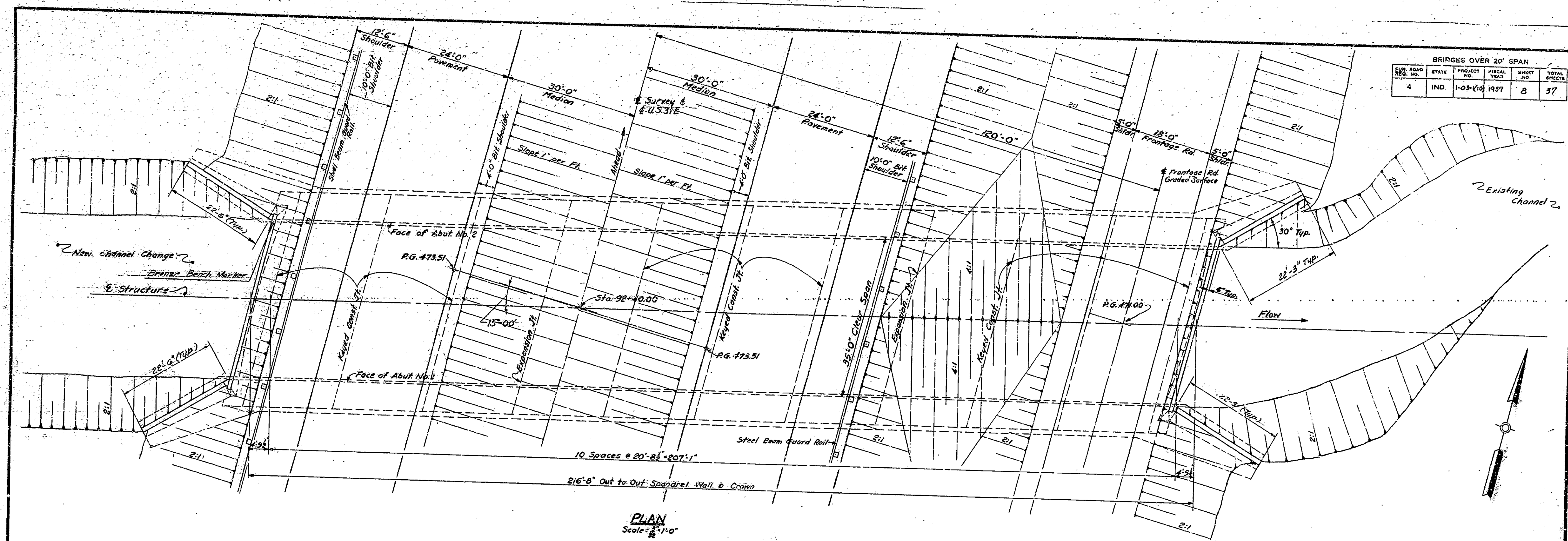
BRIDGES OVER 20' SPAN					
RUR. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1-03-1110	1957	7	97

REFERENCES
Not to Scale

DESIGNED: CWD
 DRAWN: B.A. CKD: STZ
 TRACED: CWD

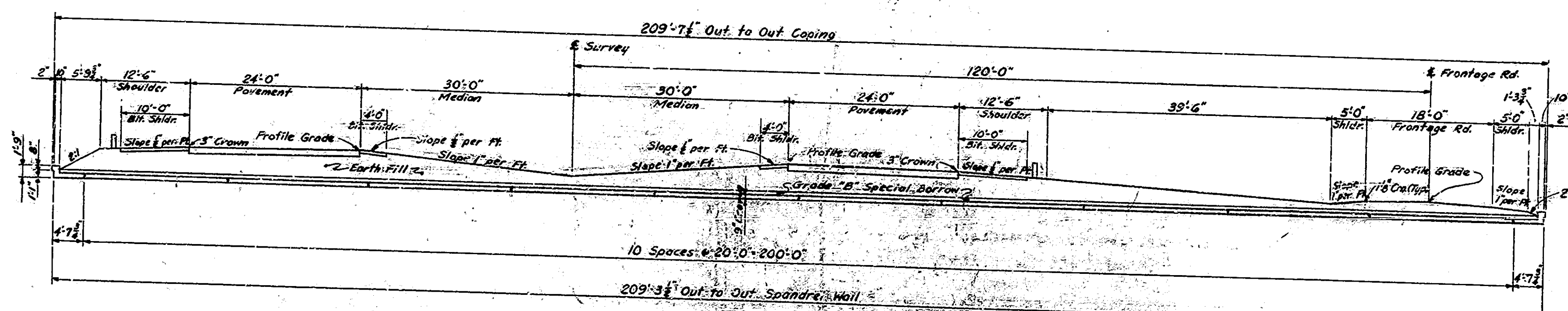


BRIDGES OVER 20' SPAN					
STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
IND.	1-03-110	1937	8	37	



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

Note: Horizontal Dimensions shown are perpendicular to E Survey.



SECTION AT CROWN
Scale: 1/8" = 1'-0"

GENERAL NOTES

Depth of footings to be extended if found necessary. See Article B40326 of Specs. Footings to extend 1'-0" minimum to solid rock. Reinforcing steel covering shall be 3" in footings except bottom steel which shall be 4" and 2" in all other parts except as noted. Dimensions on bending diagrams for reinforcing bars are measured out to out of bars.

All concrete in footings, wingwalls and abutments up to shoulders to be Class E. Other concrete to be Class D. Continuous concrete pours shall be required between construction joints as shown on detail plans.

Waterproof abutments, wingwalls, arch rings and sponder walls in accordance with Specs.

Base of forms 4" under copings and chamfer exposed edges if except as noted.

See Specs. 3.3 on General Roadway Location and Profile of S.E. over Elk Run.

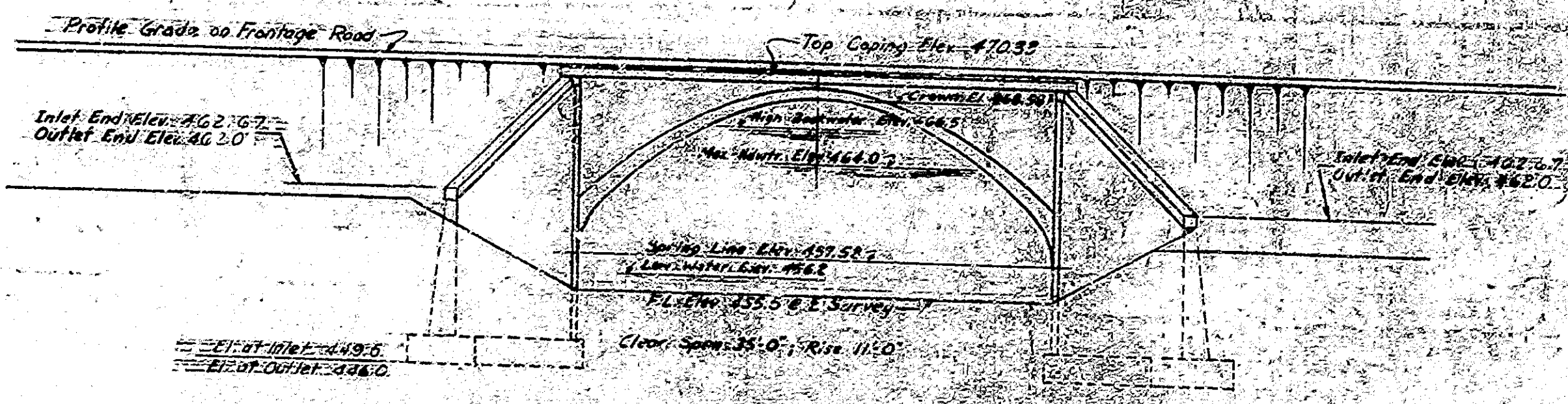
For typical cross section of S.E. see attached same sections for Federal Interstate Projects.

Footings shall extend minimum of 1'-0" into slate or shale.

No present structure at proposed bridge site.

Traffic Lane stripe to be placed along E pavement.

See Special Provisions for items included in this Contract.



ELEVATION (OUTLET)
Scale: 1/8" = 1'-0"

DESIGN DATA

Unit stresses: $f_c = 2000 \text{ psi}$, $f_s = 1600 \text{ psi}$

Allowing for temperature stresses, an increase of 25% is permitted.

Allow for reduction of temperature and rib shortening stresses.

Live Load: H-20, S16.44, loading in accordance with 1935 AASHTO Specs.

STANDARD DRAWINGS	
Gravel	Reinforcing Bar Notes, Boiler Taping, Drains
Level	TEMPERATURE STRESS DETAILS
SE	Placement of Special Fill Material
Sheet 10	TEMPERATURE STRESS DETAILS
Sheet 11	TEMPERATURE STRESS DETAILS
Sheet 12	TEMPERATURE STRESS DETAILS
Sheet 13	TEMPERATURE STRESS DETAILS
Sheet 14	TEMPERATURE STRESS DETAILS
Sheet 15	TEMPERATURE STRESS DETAILS
Sheet 16	TEMPERATURE STRESS DETAILS
Sheet 17	TEMPERATURE STRESS DETAILS
Sheet 18	TEMPERATURE STRESS DETAILS
Sheet 19	TEMPERATURE STRESS DETAILS
Sheet 20	TEMPERATURE STRESS DETAILS

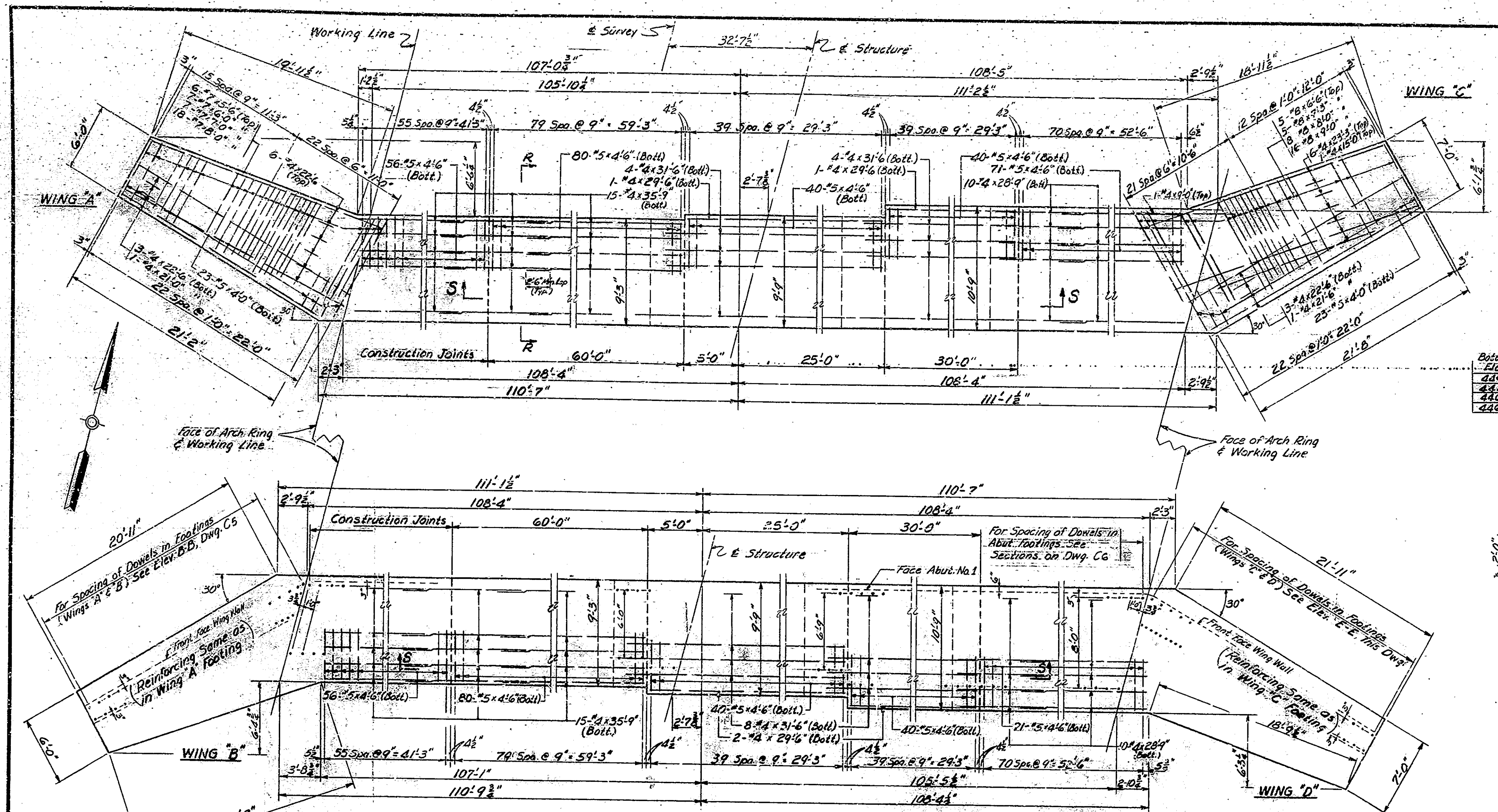
GENERAL PLAN
REINFORCED CONCRETE ARCH BRIDGE
1 SPAN AT 35'-0" 15' LEFT SKEW 126'-0" ROADWAY
OVER ELK RUN ON U.S. 31E.
STATE HIGHWAY DEPARTMENT OF INDIANA
CLARK COUNTY

SCALE: AS NOTED
SUBMITTED FOR APPROVAL: *Robert Miller*
JUNE 18, 1937
DRAWING: C9 OF 7
PROJECT: 1-03-110 STATION 92+40
BRIDGE CONTRACT NO. 4412
BRIDGE FILE: 1-03-4112

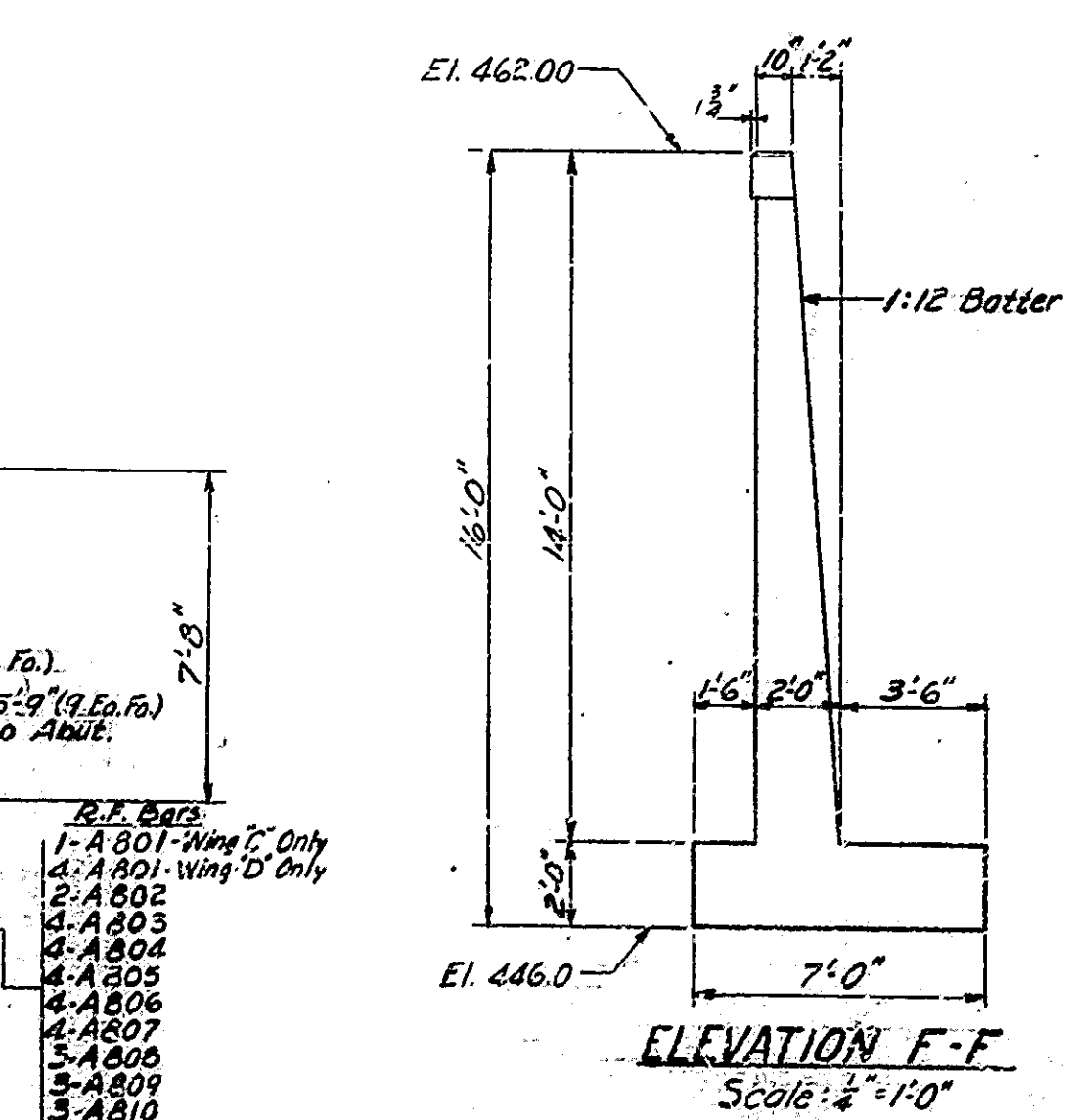
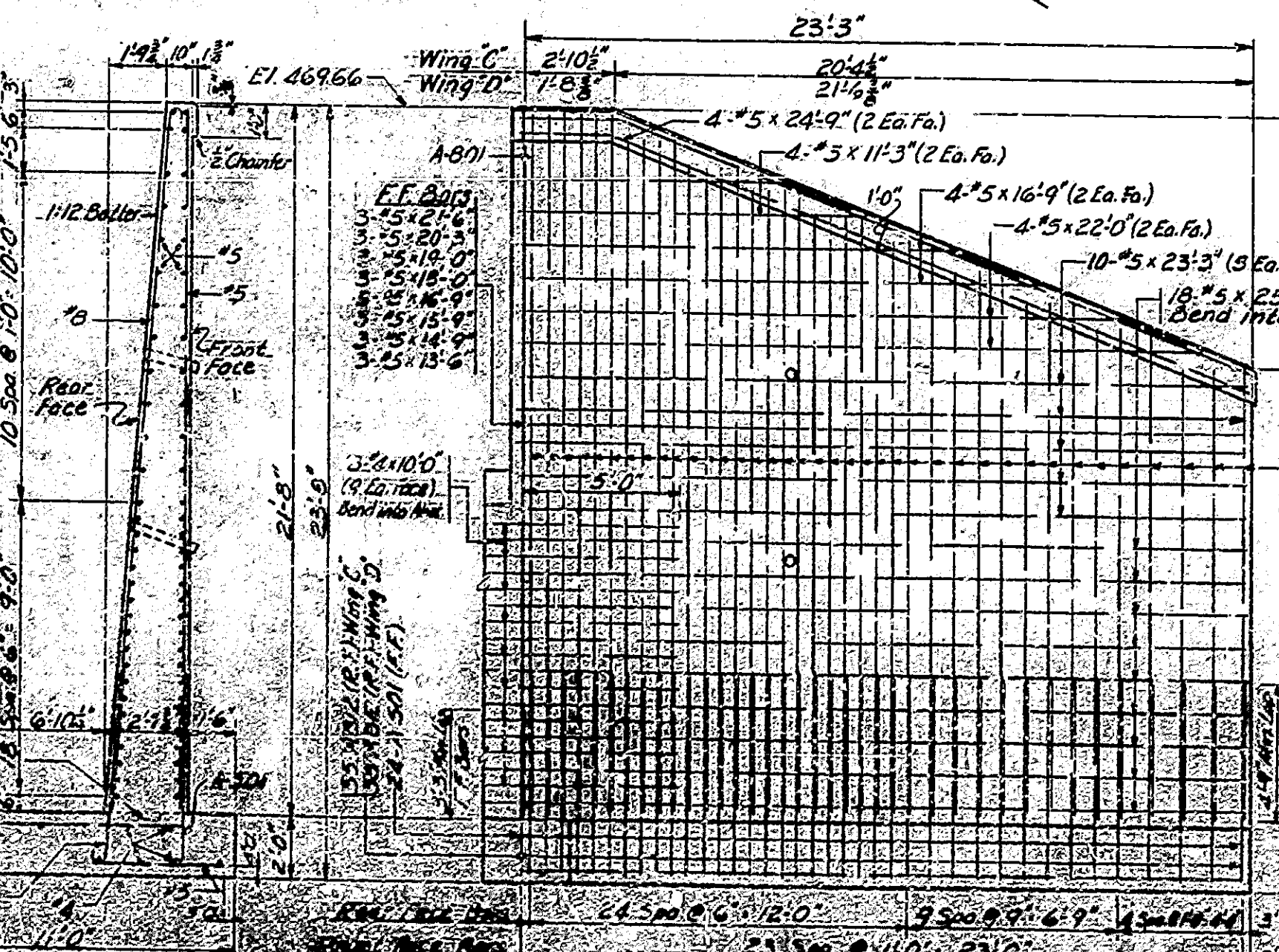
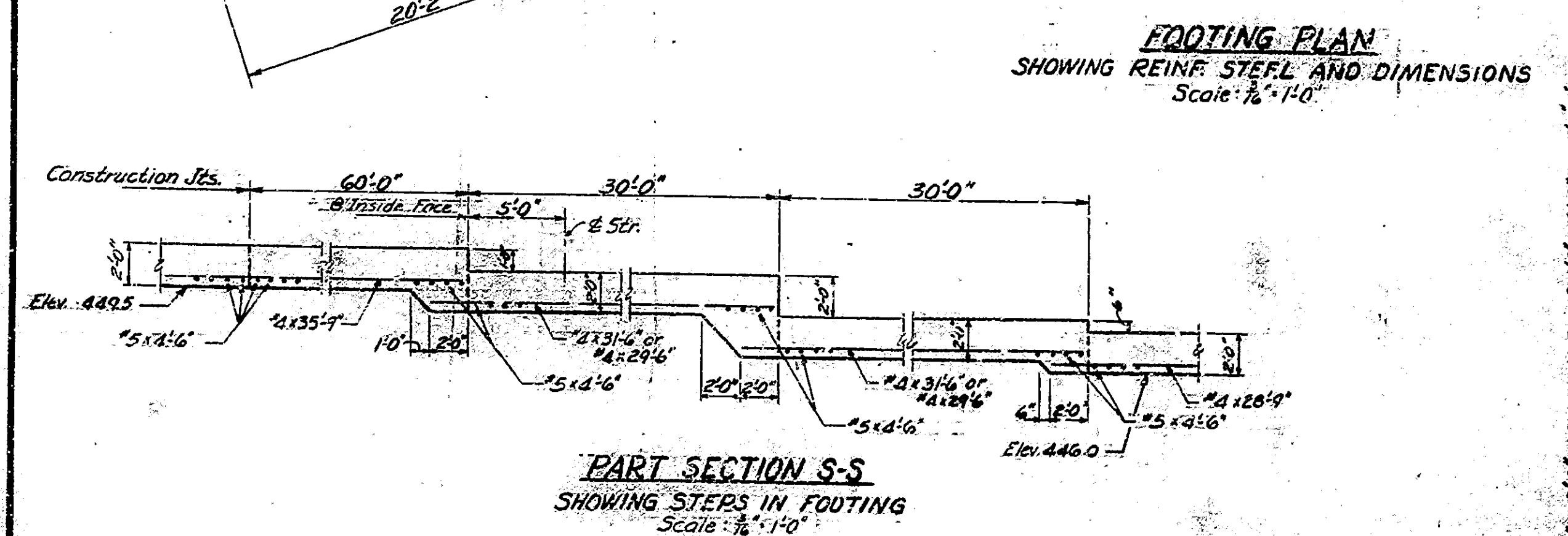
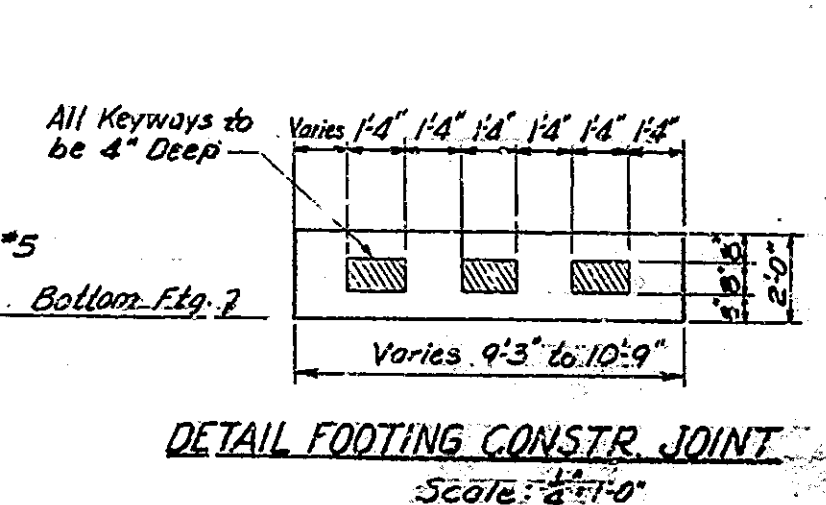
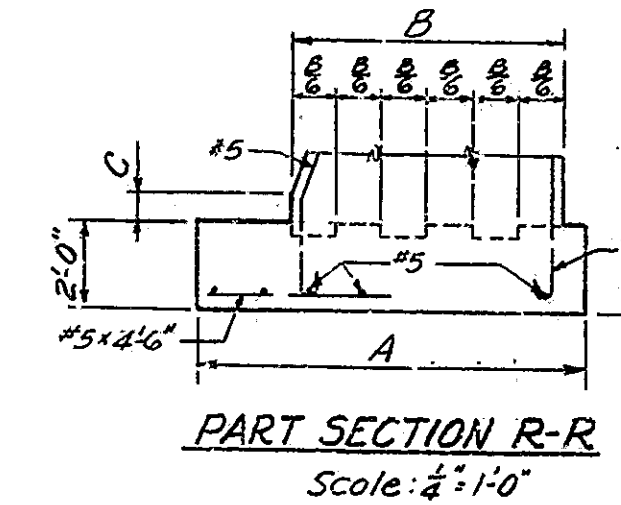
DESIGNED: CKD
DRAWN: CKD
TRACED: CKD



BRIDGES OVER 20' SPAN					
NO. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.		NO.	YEAR	NO.	SHEETS
4	IND.	1-03-100	1958	9	37



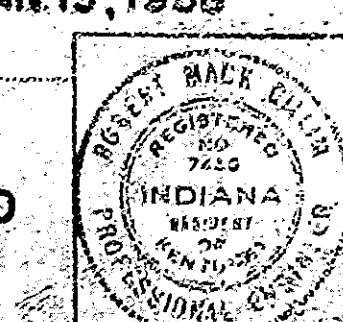
Bottom Flg. Elev.	A	B	C
449.5	9'-3"	6'-6"	6'
448.5	9'-9"	7'-3"	4'-0"
446.5	10'-9"	8'-2"	5'-0"
446.0	10'-9"	8'-6"	11'-0"



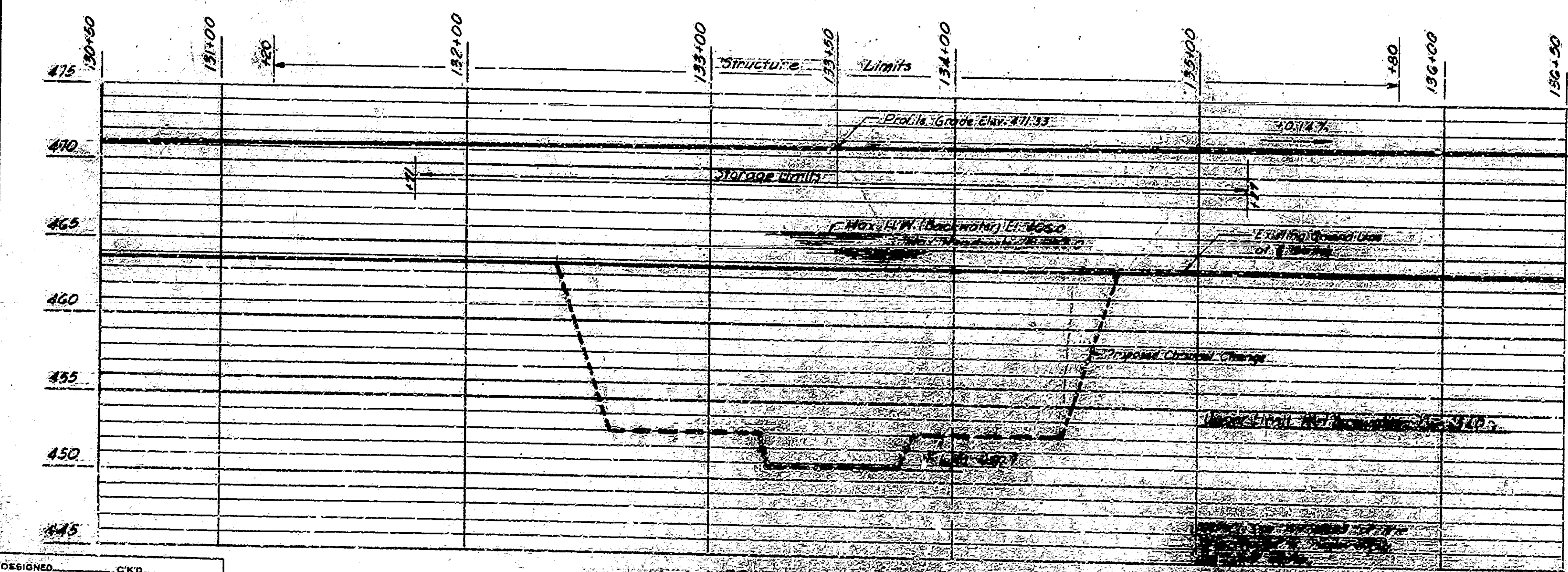
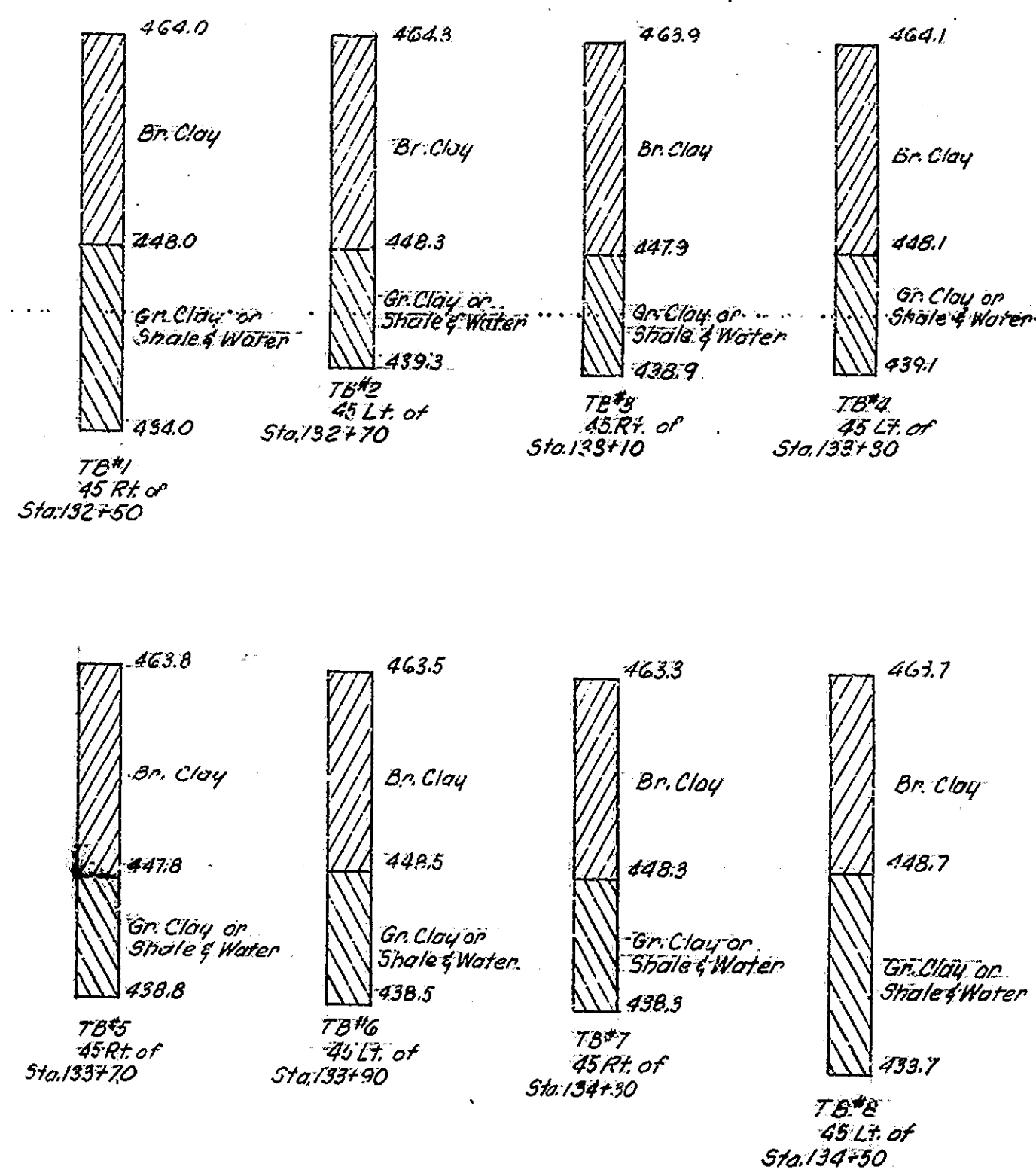
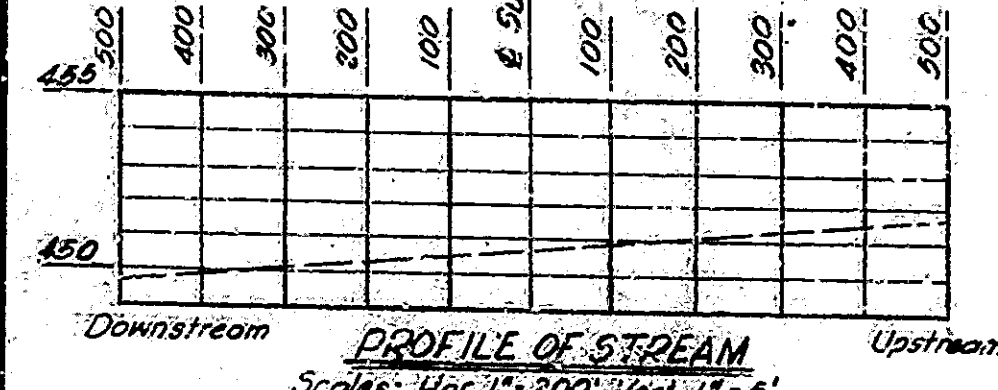
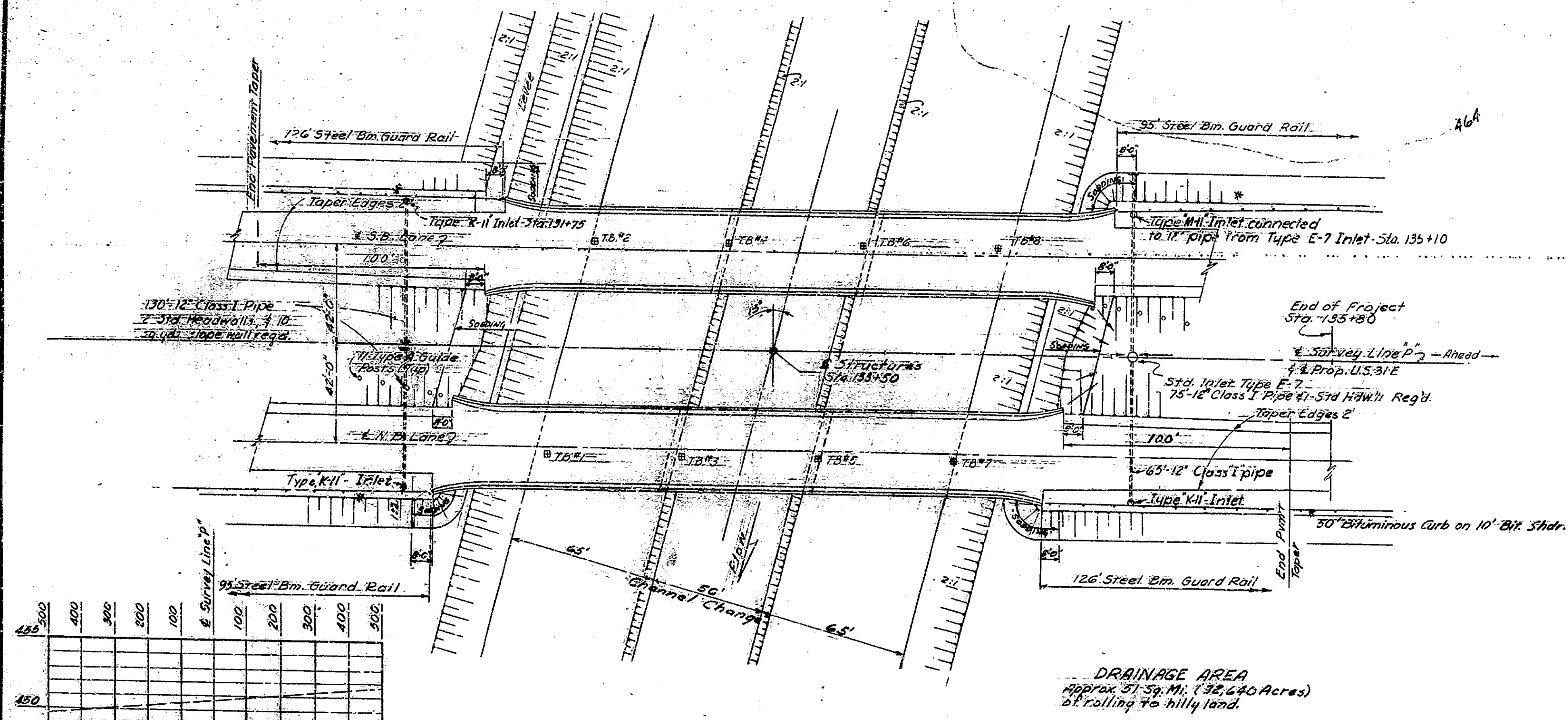
- 1-A 801-Wing C Only
- 2-A 802-Wing D Only
- 3-A 803
- 4-A 804
- 5-A 805
- 6-A 806
- 7-A 807
- 8-A 808
- 9-A 809
- 10-A 810
- 11-A 811

FOOTING AND WING DETAILS
 STATE HIGHWAY DEPARTMENT OF INDIANA
 SCALE: AS SHOWN
 SUBMITTED FOR APPROVAL: *Robert Miller*
 JAN 13, 1958
 DRAWING: C4 OF 7
 PROJECT: 1-03-1(10)
 BRIDGE CONTRACT NO. 4412
 STA. 92+40
 BRIDGE FILE: 31-89-4142

DESIGNED: GTC CKD SEV
 DRAWN: FDH CKD ETK
 TRACED: CKD



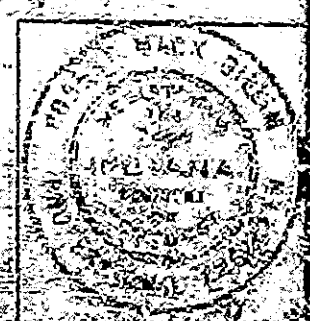
BRIDGES OVER 20' SPAN					
FILE NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-03-100	1957	15	37



LAYOUT
REINFORCED CONCRETE ARCH BRIDGE
 3 CLEAR SPANS: 60'-0" 60'-0" 60'-0" 15° RT. SKEW
 OVER MUDDY FORK 30'-0" ROADWAY
 ON U.S. 31E
STATE HIGHWAY DEPARTMENT OF INDIANA
 CLARK COUNTY

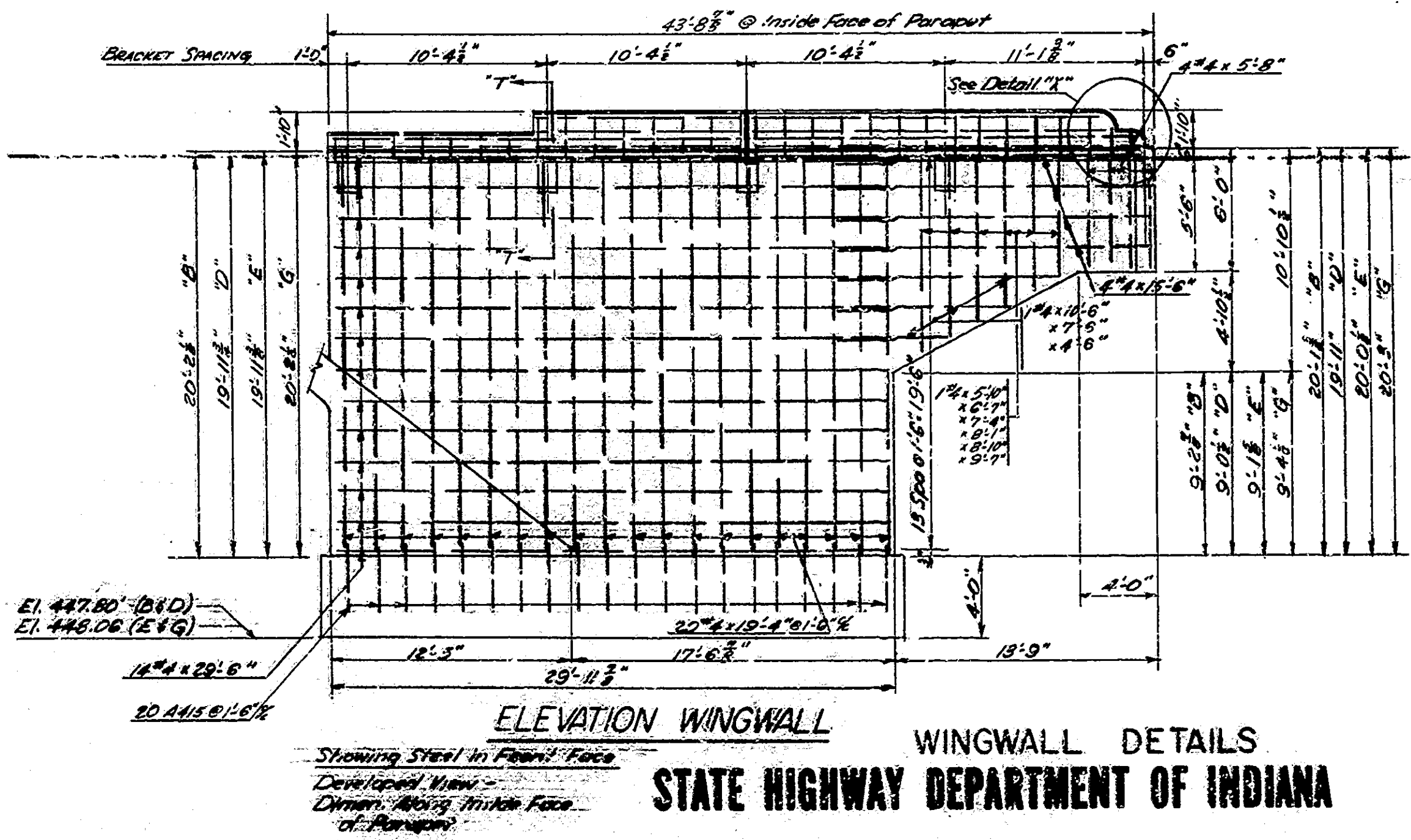
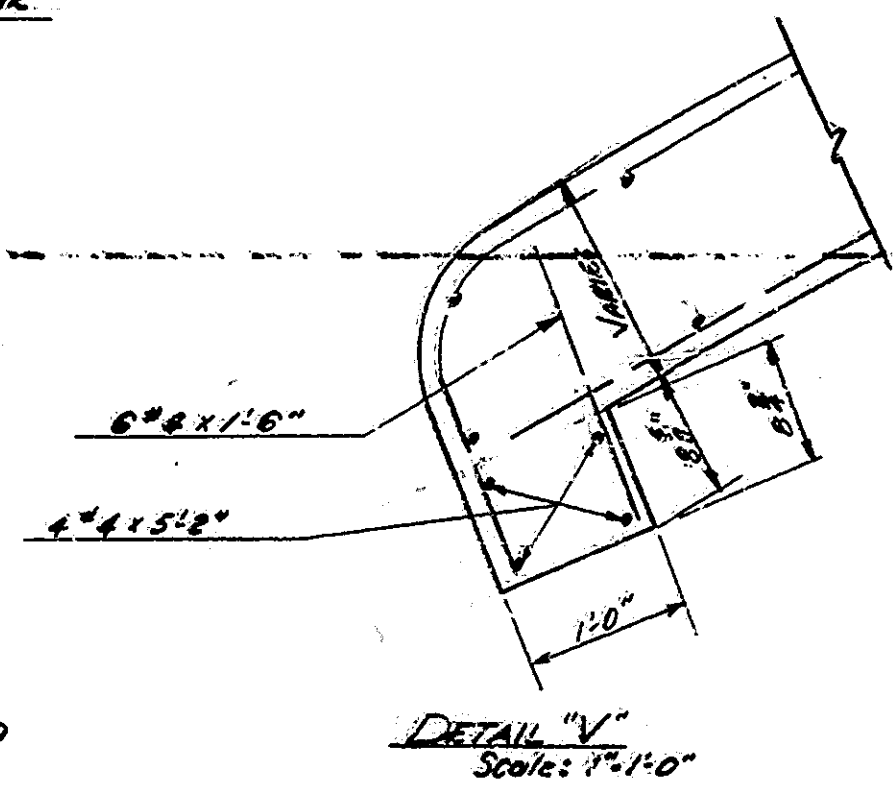
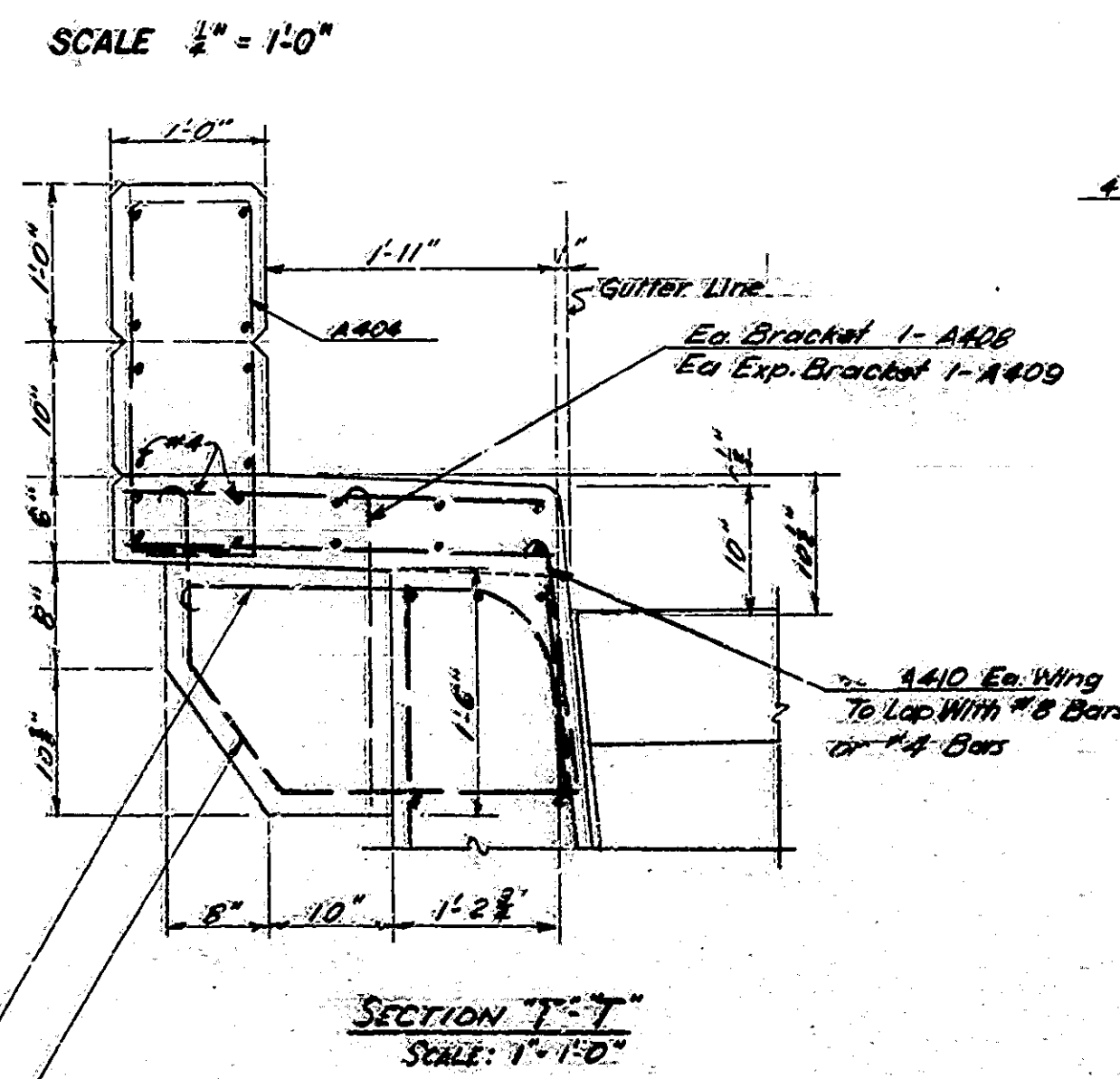
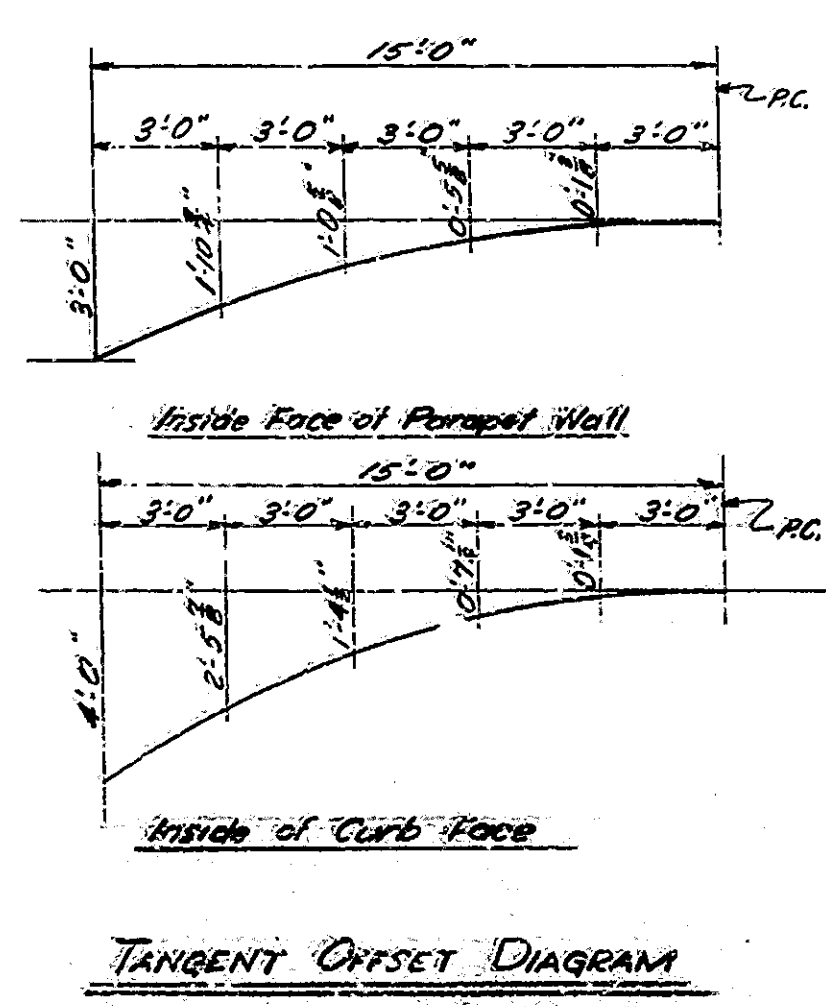
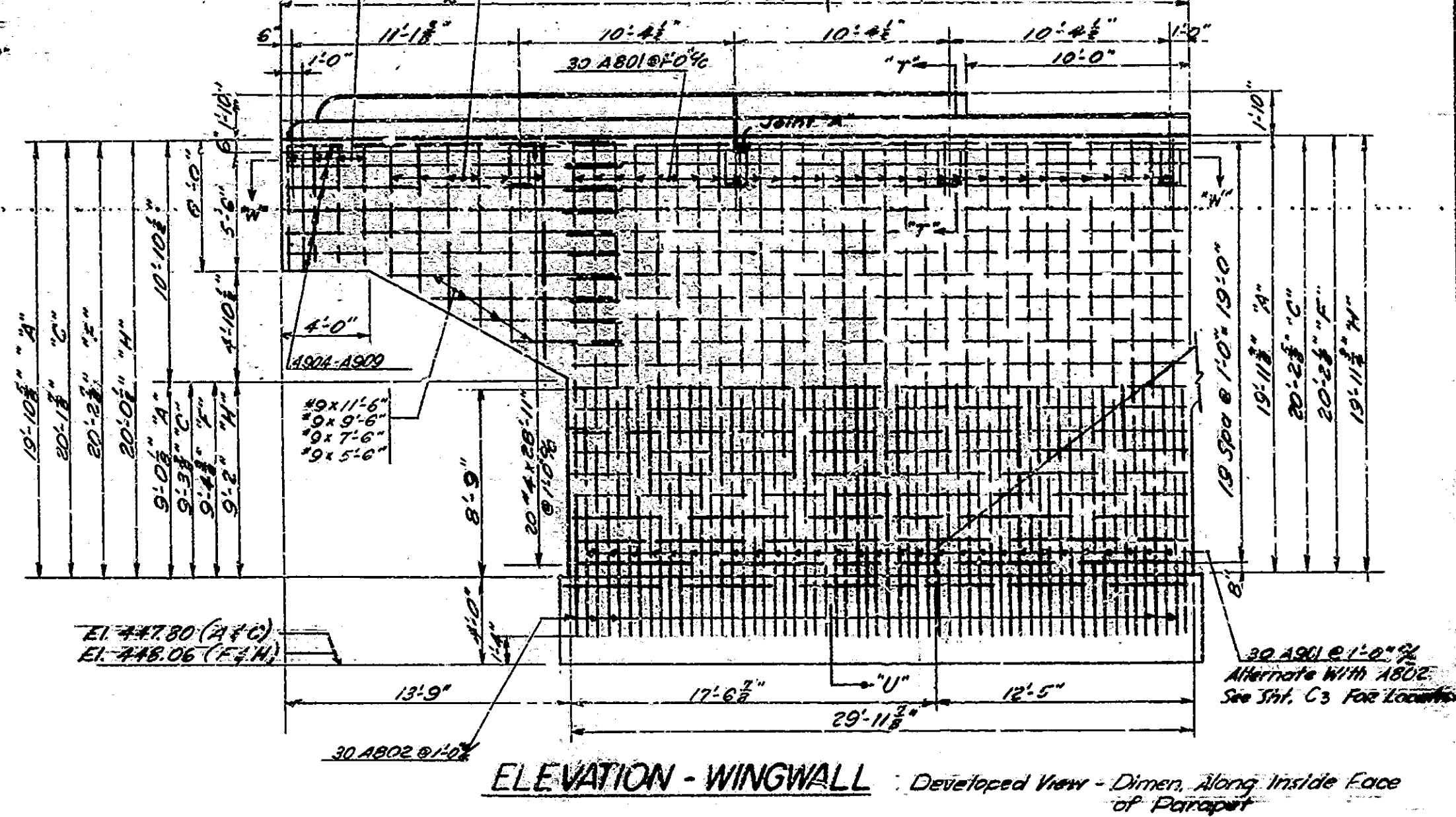
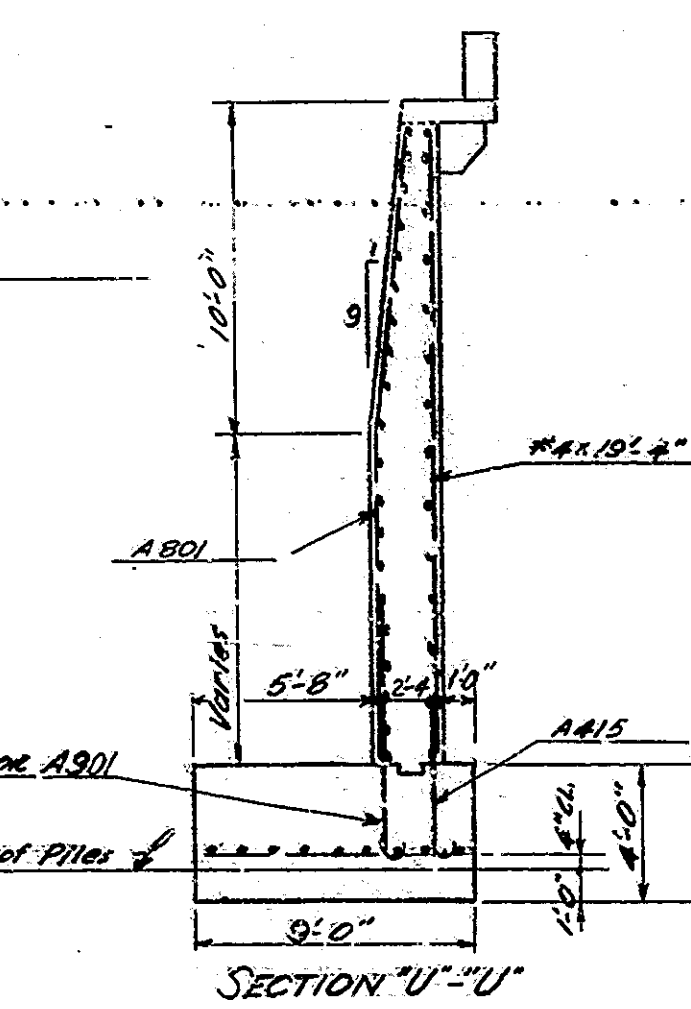
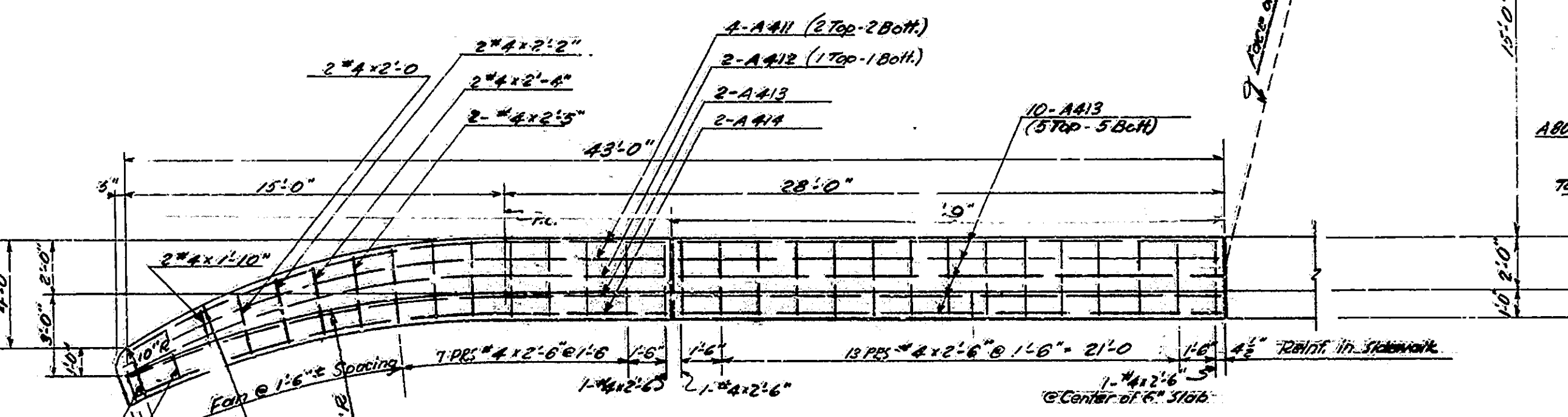
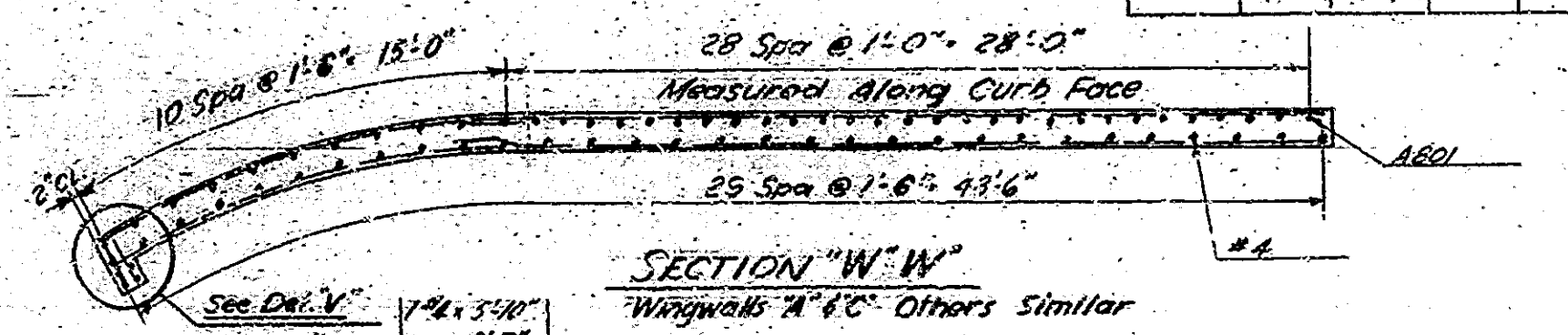
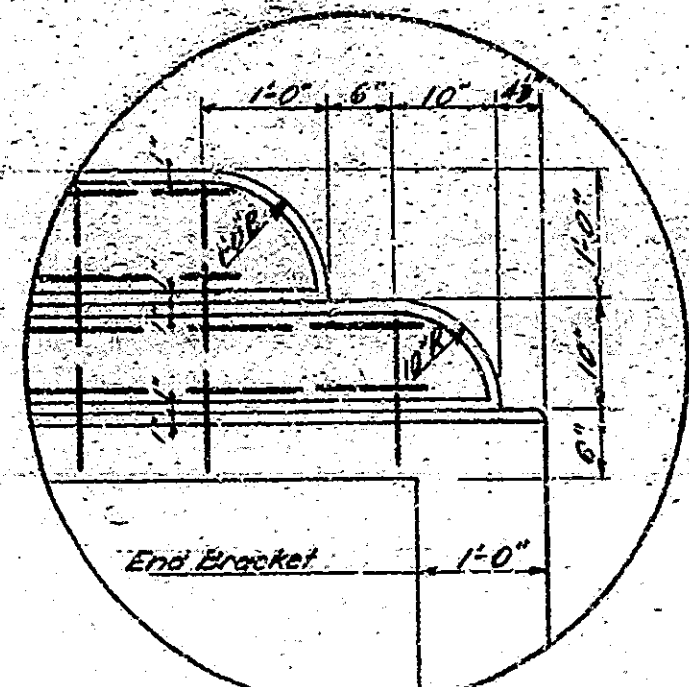
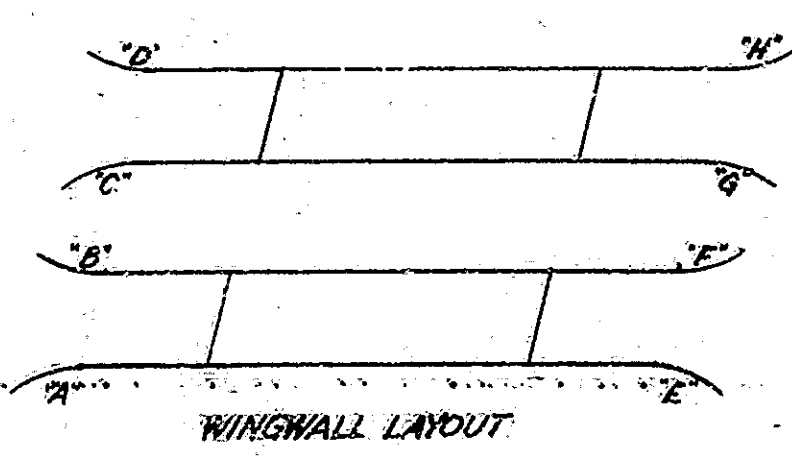
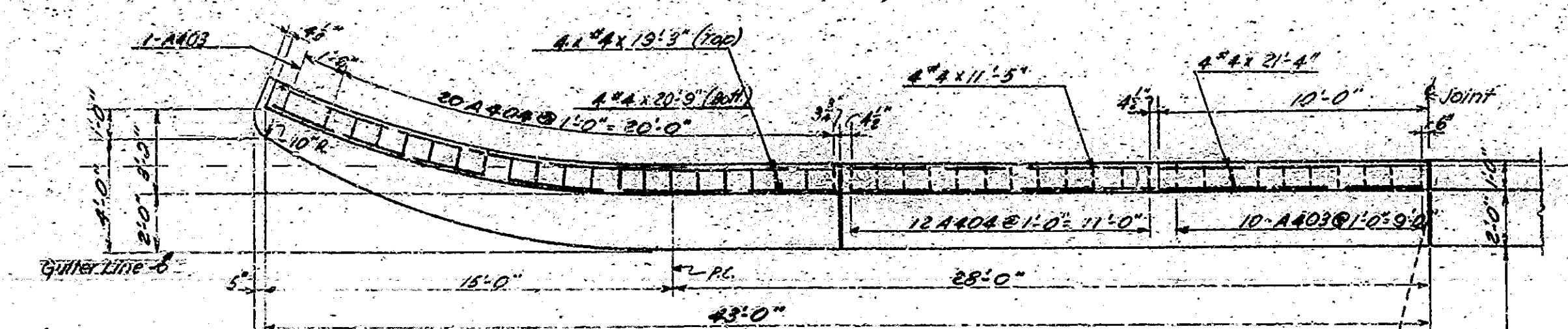
SCALE: AS NOTED
 SUBMITTED FOR APPROVAL: *Robert J. Hill* JUN 21, 1957

DRAWING: C, OF 3
 PROJECT: I-03-100 STATION 133+50
 BRIDGE CONTRACT NO. 4412
 BRIDGE FILE: 3-03-4138



DESIGNED: CKD
 DRAWN: J.L. CKD, G.C.
 TRACED: CKD

BRIDGES OVER 20' SPAN						
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
4	IND.	103-110	1958	18	37	



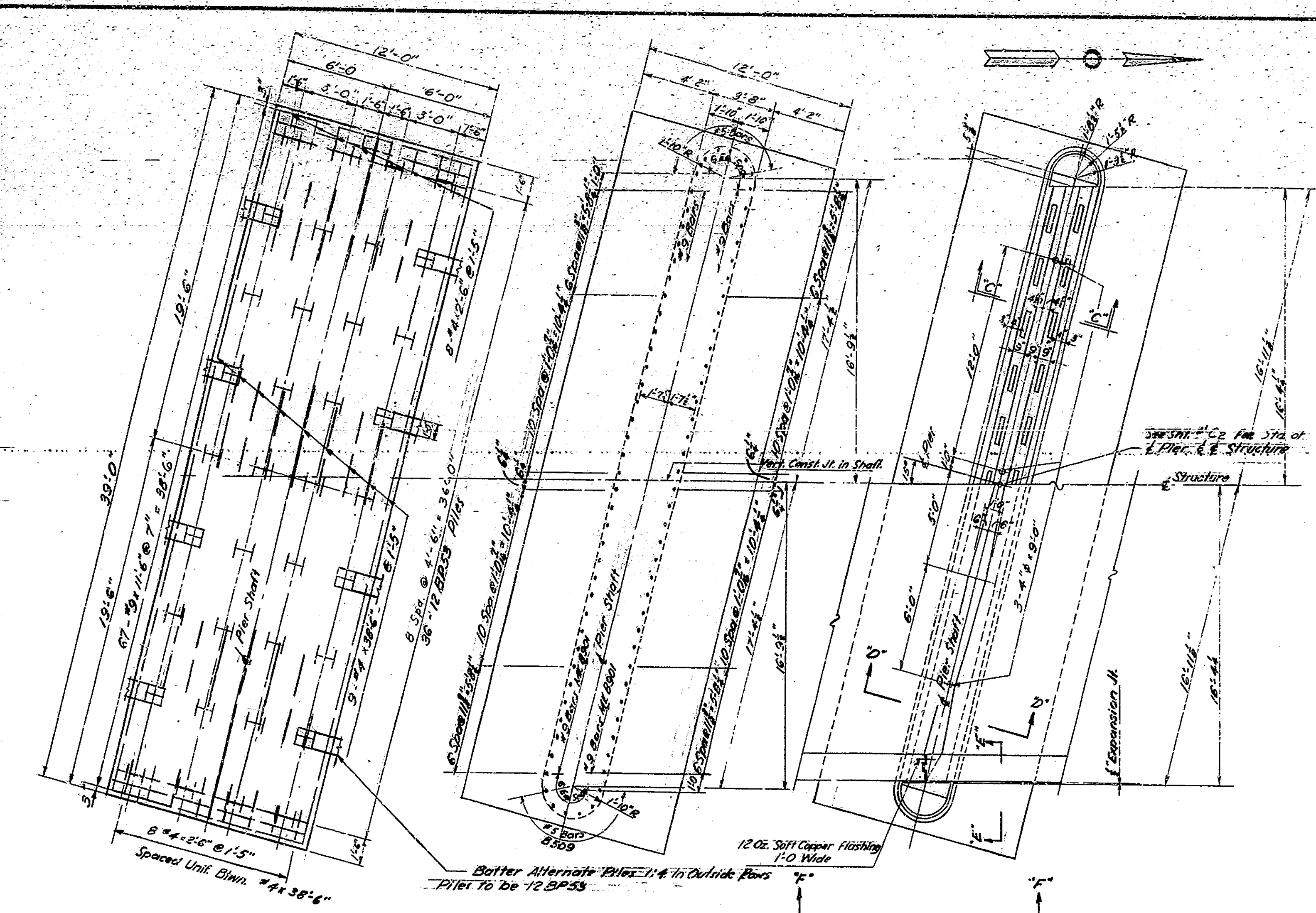
STATE HIGHWAY DEPARTMENT OF INDIANA

SCALE: 3/8" = 1'-0" UNLESS NOTED JAN. 13, 1958

SUBMITTED FOR APPROVAL: [Signature]
 DRAWING: C4 OF 8
 PROJECT: I-03-1110 STA. 133+50
 BRIDGE CONTRACT NO. 4412
 BRIDGE FILE: 103-110-4132

DESIGNED: CEV, CND, GTC
 DRAWN: CEV, CND, GTC
 TRACED: CKD

BRIDGES OVER 20' SPAN				
PUR. ROAD	STATE	PROJECT	FISCAL	TOTAL
NO.	NO.	NO.	YEAR	NO.
4	IND.	2017(1)	1958	13-37

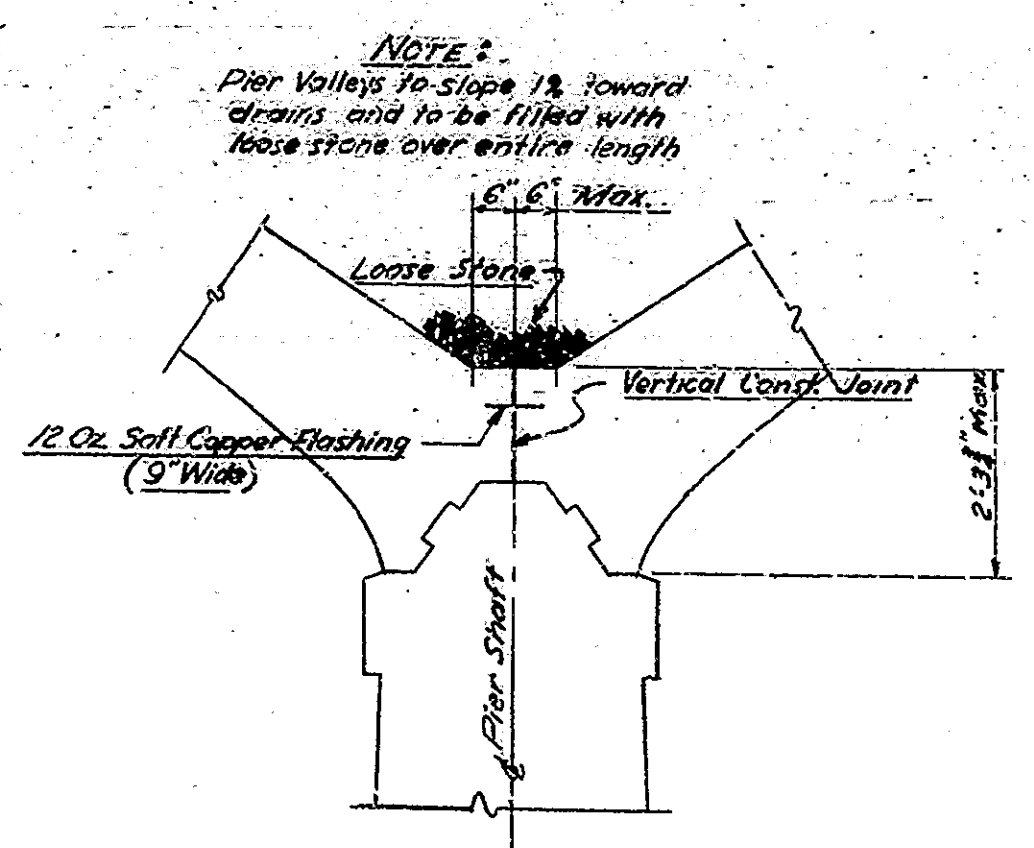


FOOTING DIMENSIONS
PILE & STEEL LAYOUT

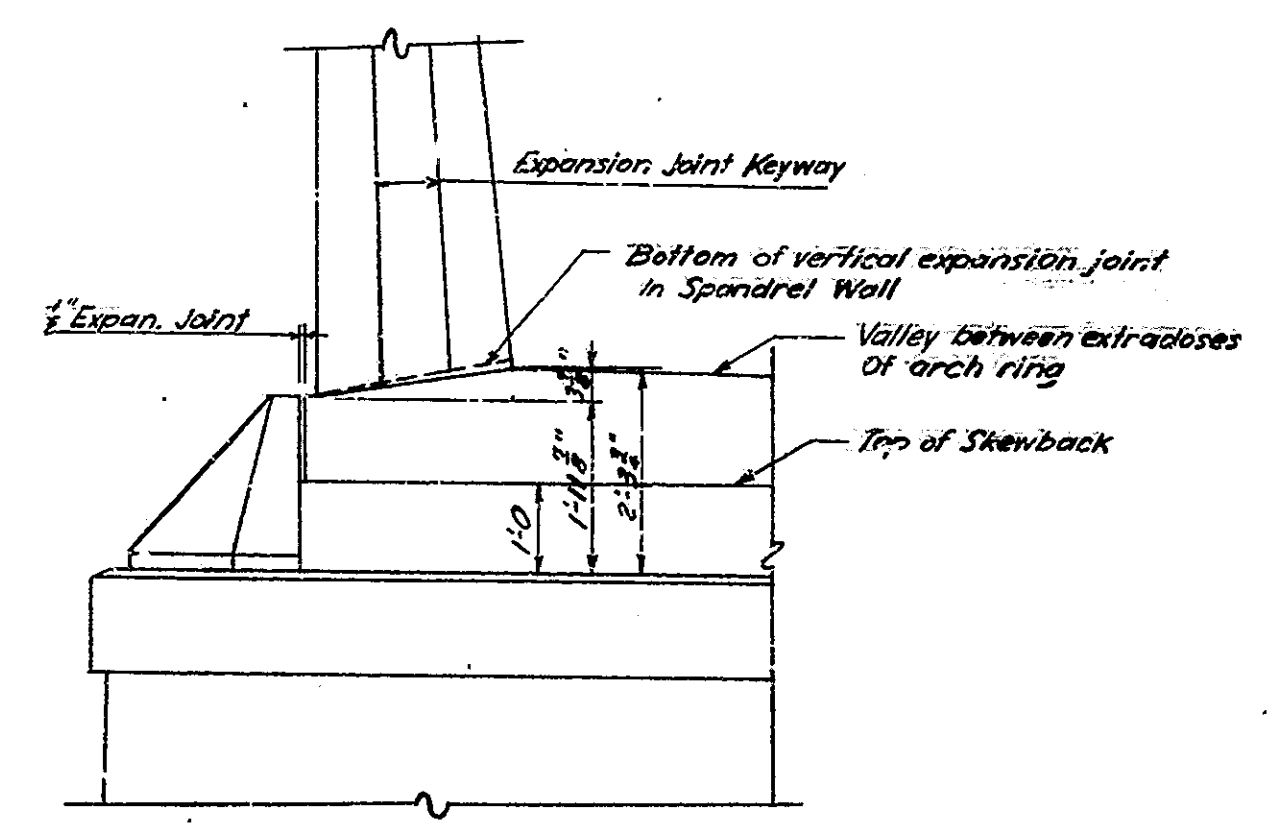
VERTICAL STEEL EXTENDING
OUT OF FOOTING

PIER PLAN - RIGHT HALF SHOWING
ARCH RING IN PLACE

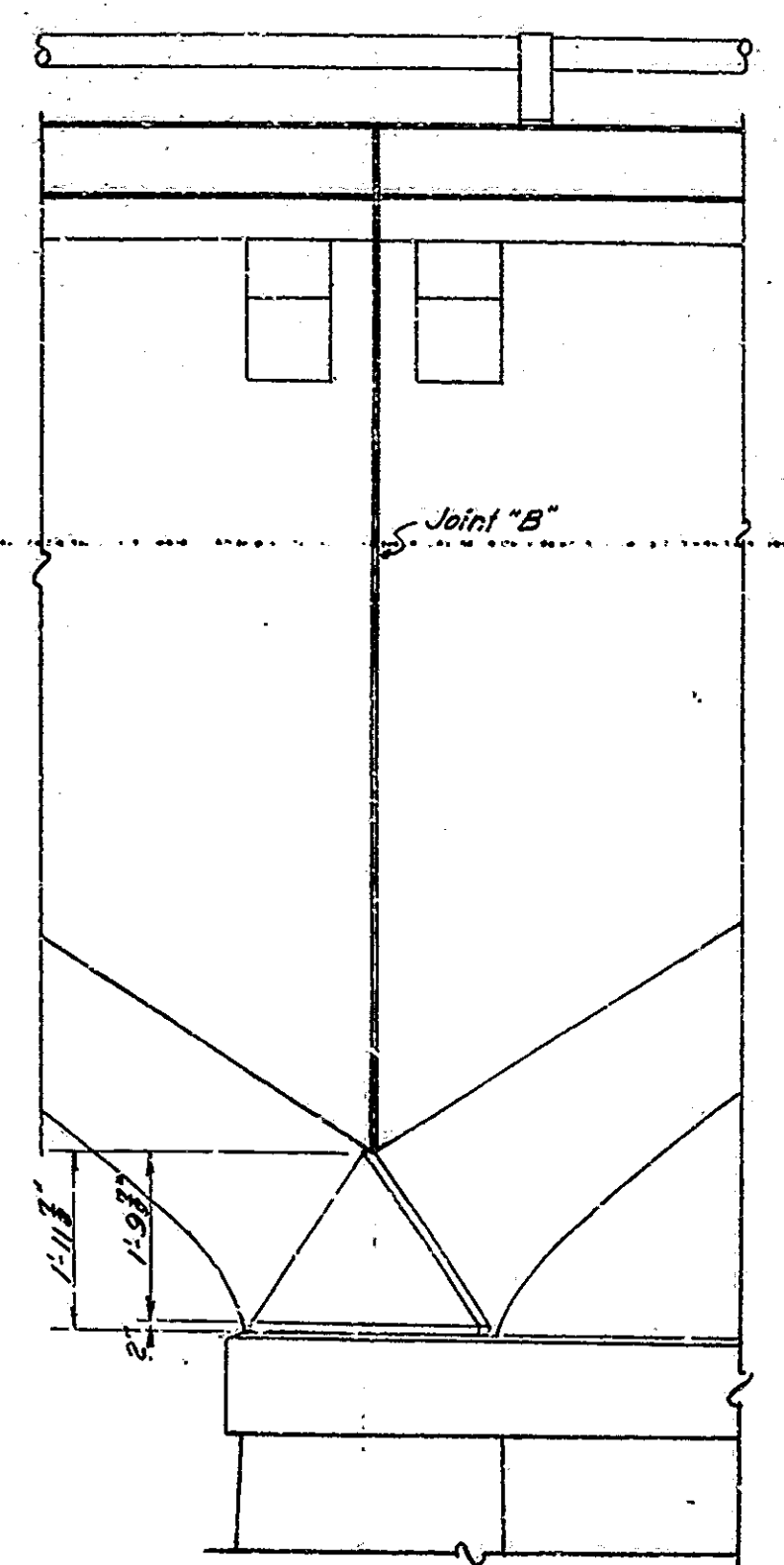
PIER NO. 2 OR NO. 3



SECTION "D-D"
SCALE: 1/2" = 1'-0"

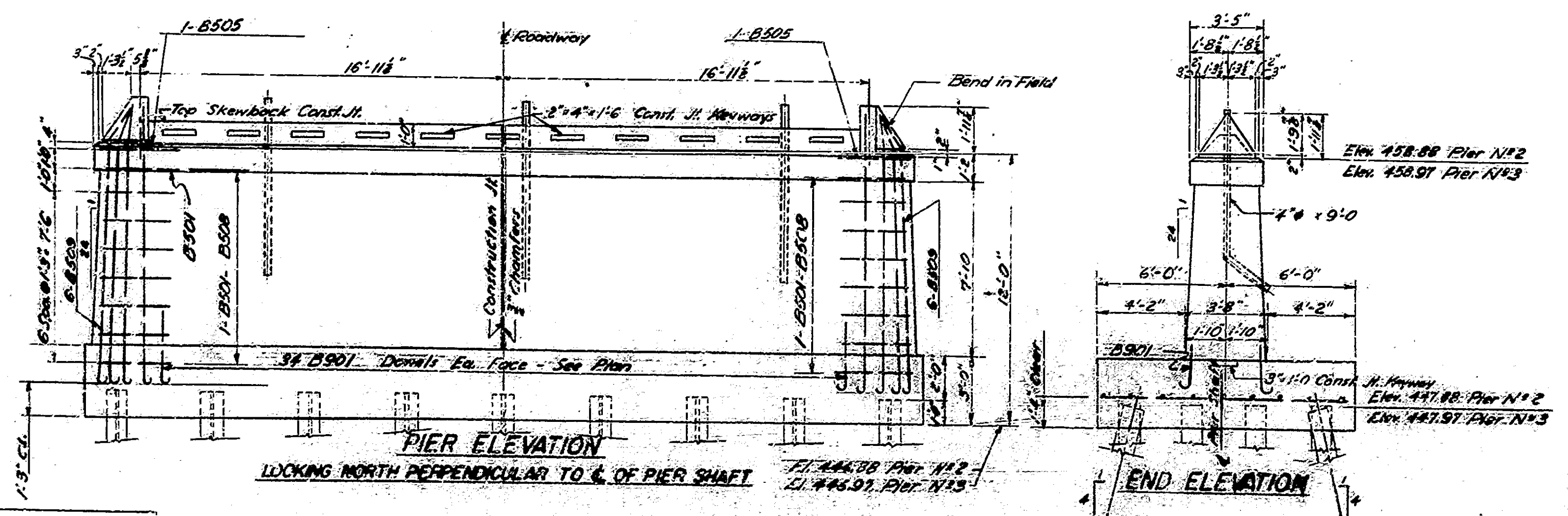


VIEW "E-E"
SCALE: 1/2" = 1'-0"
NEAR ARCH RING AND SPANDEL WALL
REMOVED



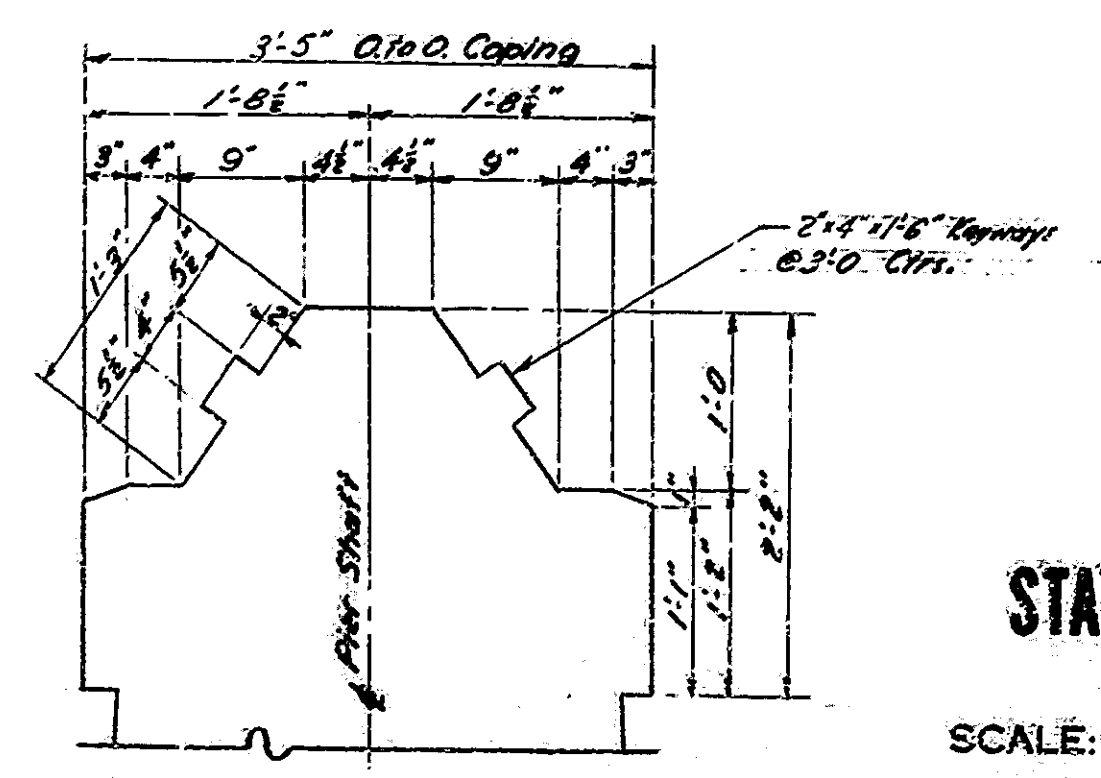
VIEW "F-F"
SCALE: 1/2" = 1'-0"

NOTE:
See Bridge Std. C2 for details of Copper Flashing in Skewback and Umbrella Top Construction Joints, and Waterproofing.



PIER ELEVATION
LOOKING NORTH PERPENDICULAR TO C-C OF PIER SHAFT

END ELEVATION



SECTION "C-C"
SCALE: 1" = 1'-0"

PIER DETAILS
STATE HIGHWAY DEPARTMENT OF INDIANA

SCALE: 1/4" = 1'-0" UNLESS NOTED
JAN. 13, 1958

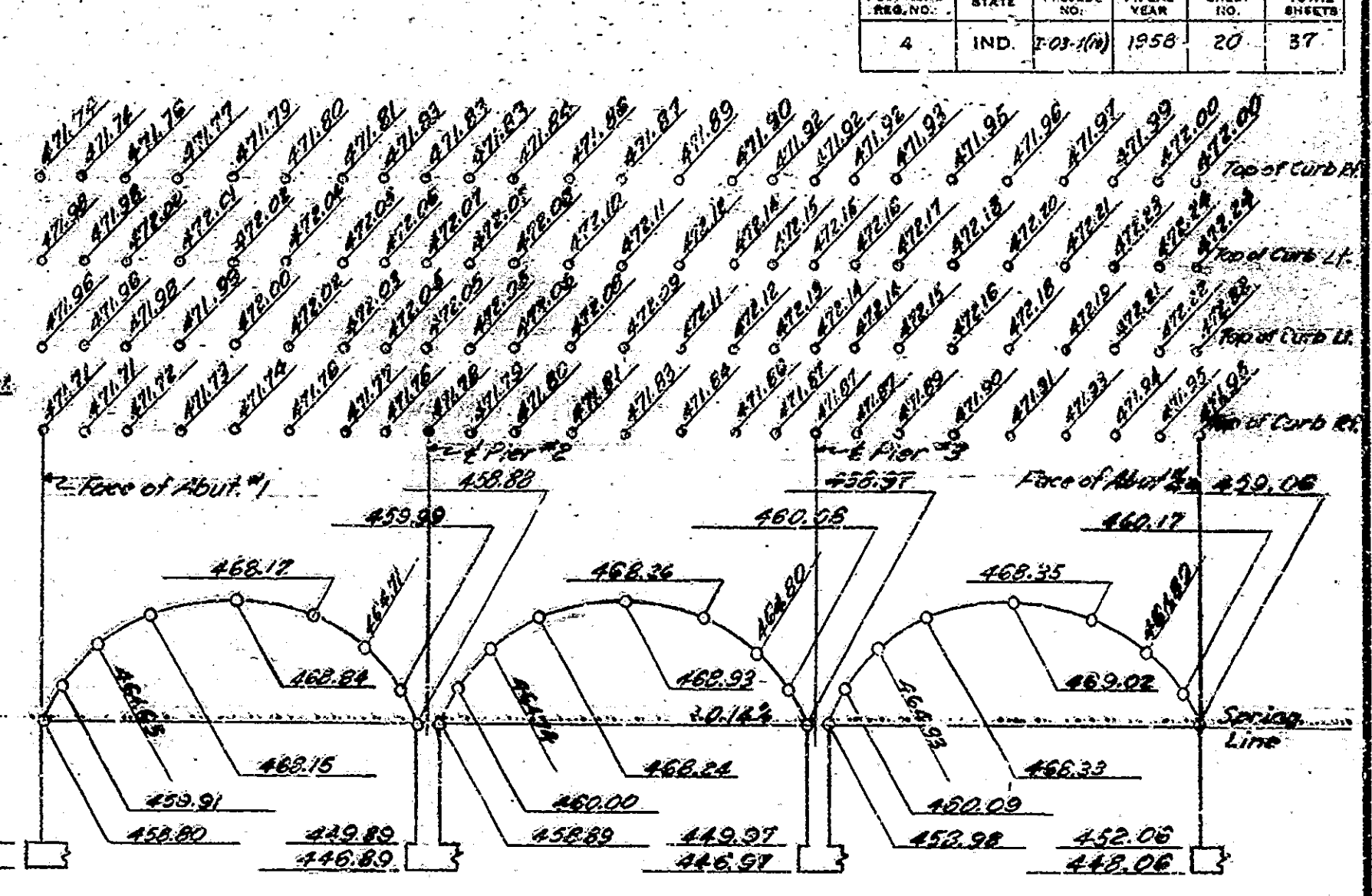
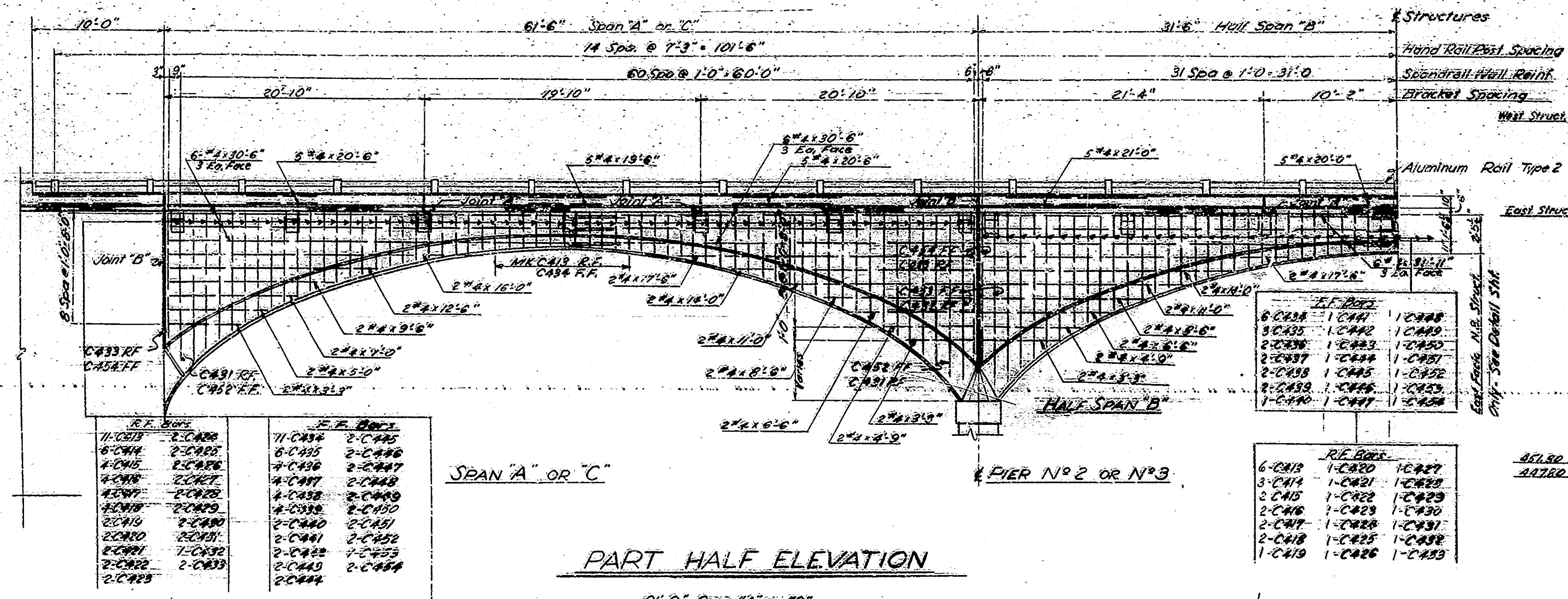
SUBMITTED FOR APPROVAL: *[Signature]*

DRAWING: C2 OF 3
PROJECT: I-03-1(10) STA. 133+60
BRIDGE CONTRACT NO. 4412
BRIDGE FILE: 21-88-4138

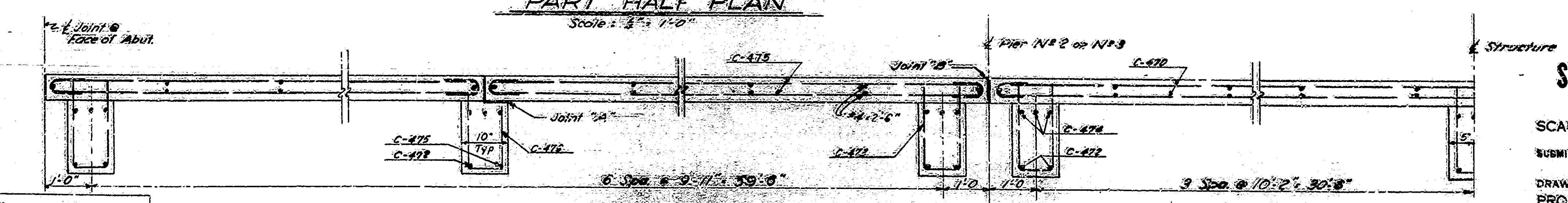
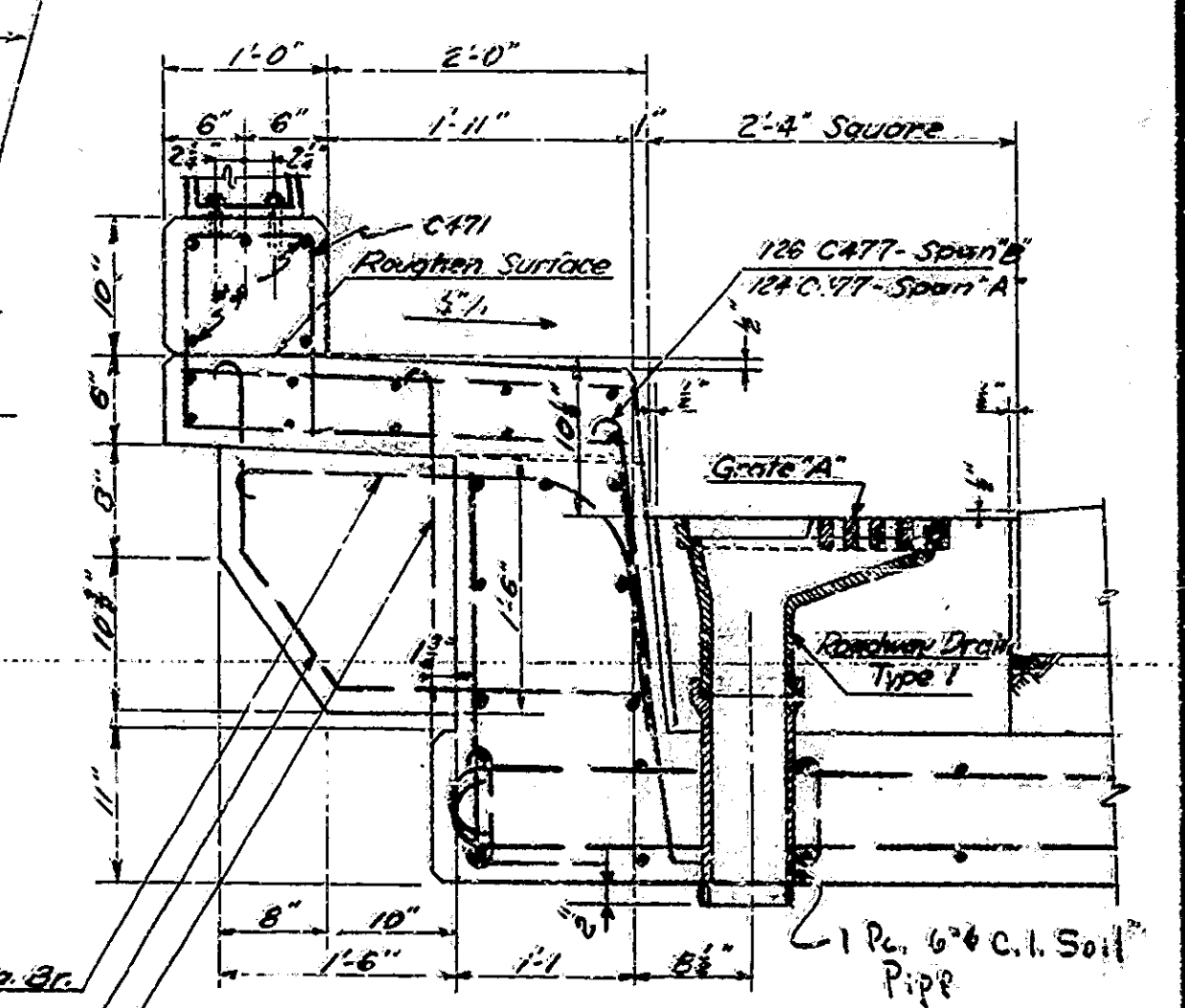
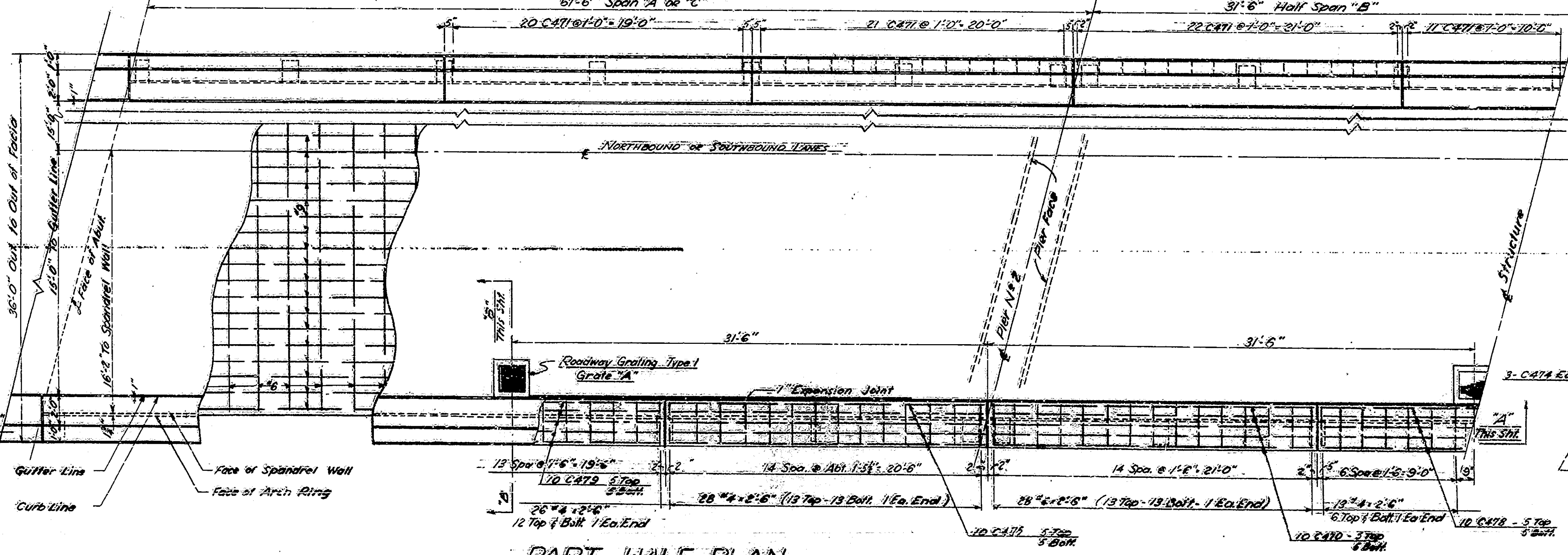


DESIGNED: GTC	CWD: SFE
DRAWN: GTC	CWD: GTC
TRACED: GTC	CWD: GTC

BRIDGES OVER 20' SPAN					
PUB. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.		NO.	YEAR	NO.	SHEETS
4	IND.	103-110	1958	20	37



ELEVATION DIAGRAM
Showing Elevations of Spring Lines, Arch Ring Intradoses
At Radial Change Points and Tops of Curbs At Centerline of Brackets
(Not To Scale)



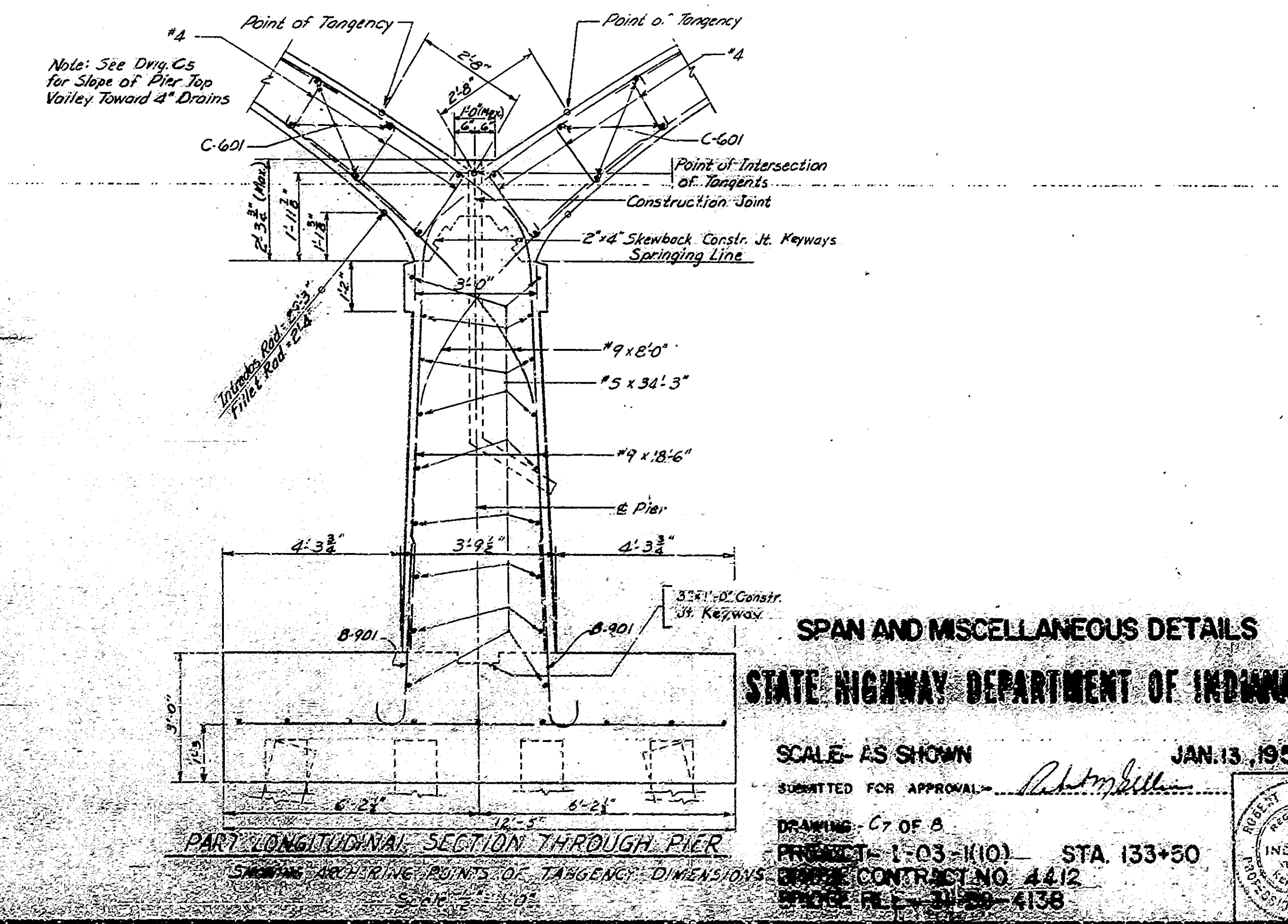
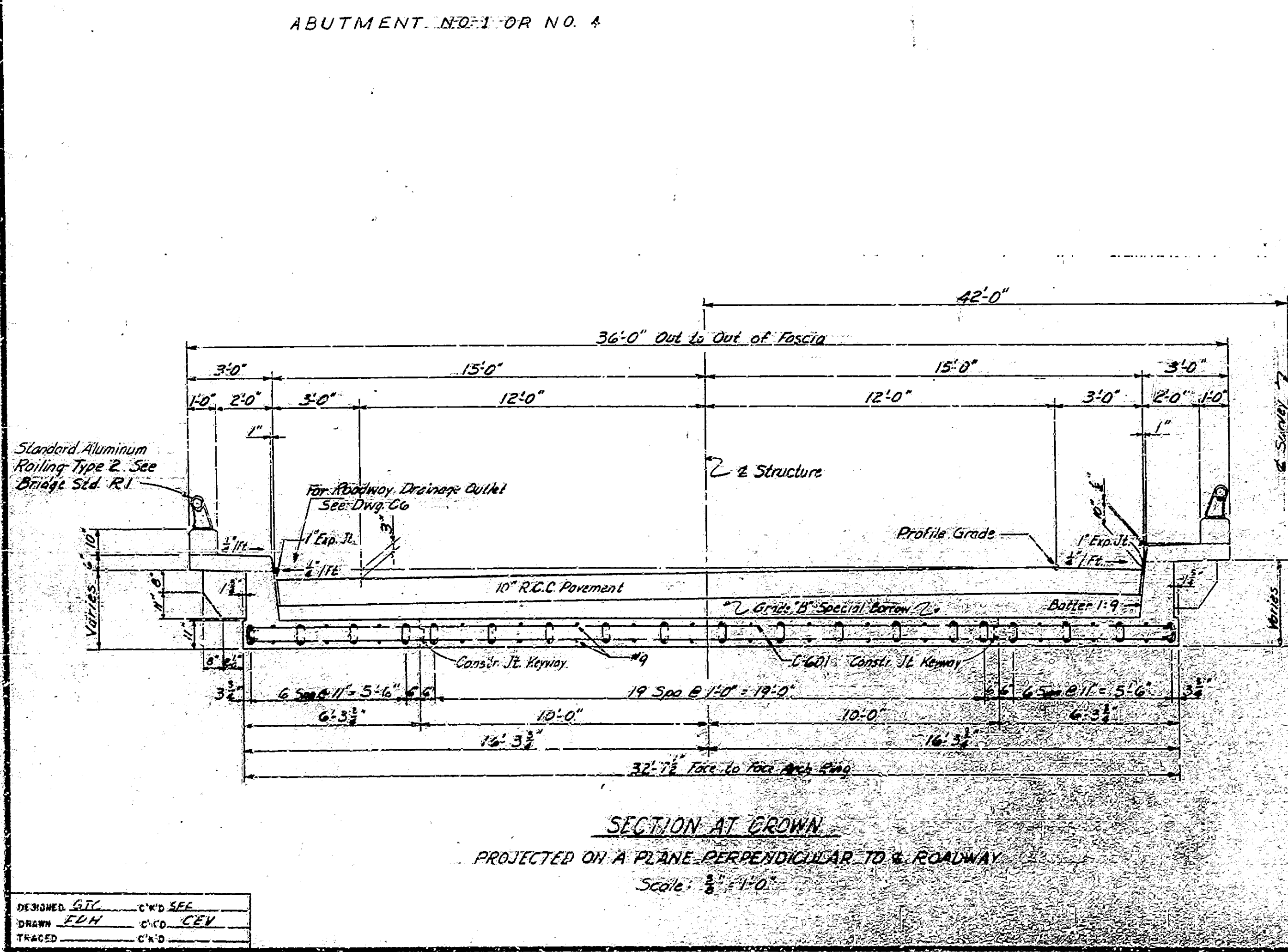
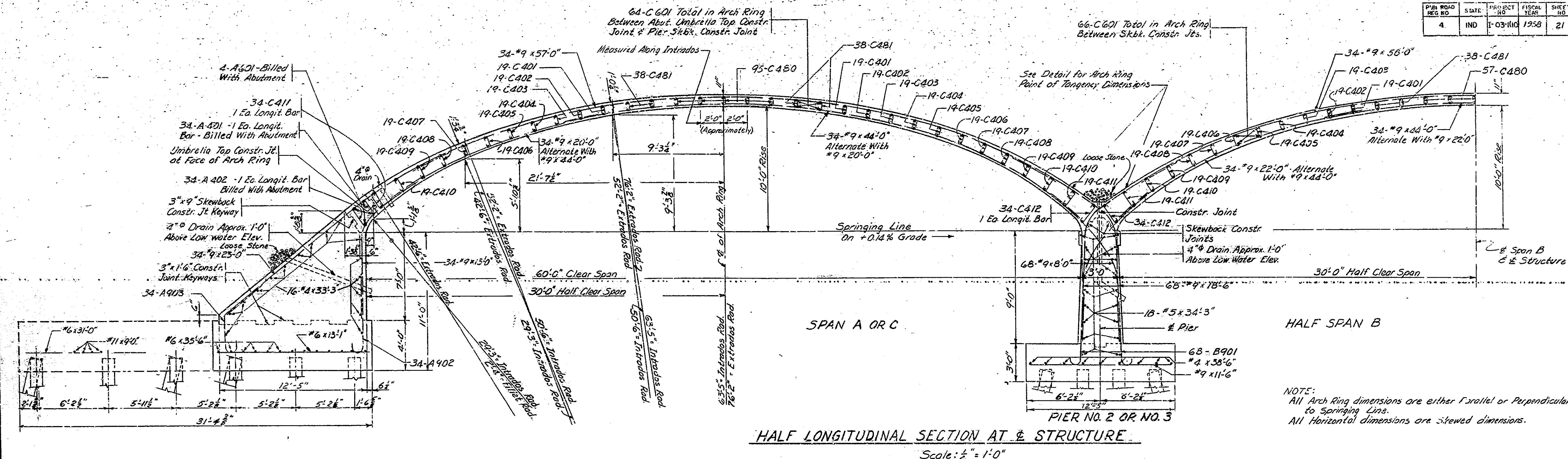
SPAN AND MISCELLANEOUS DETAILS
STATE HIGHWAY DEPARTMENT OF INDIANA

SCALE: $\frac{3}{8}'' = 1'-0''$ UNLESS NOTED
 SUBMITTED FOR APPROVAL: *Whitcomb*
 PROJECT: I-03-1(10) STA. 133+50
 BRIDGE CONTRACT NO. 4412
 BRIDGE FILE: 31-89-4138
 JAN. 13, 1958



DESIGNED: CKD
 DRAWN: LEV
 TRACED: CKD

BRIDGES OVER 20' SPAN				
PIER ROAD REG. NO.	STATE	PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
4	IND	1-03-110	1958	21
				37



DESIGNED BY	C.W.D. SEC
DRAWN BY	C.W.D. CEV
TRACED BY	C.W.D.

BILLS OF MATERIALS
MATERIALS SHOWN ARE FOR NORTHBOUND STRUCTURE
SOUTHBOUND STRUCTURE SAME UNLESS NOTED

BENDING DIAGRAMS

Table with columns: PUB. ROAD RECD. NO., STATE, PROJECT NO., FISCAL YEAR, SHEET NO., TOTAL SHEETS. Values: 4, IND, I-03-1410, 1958, 22, 37.

SPAN A (SPAN C SAME)

Table: REINFORCING STEEL. Columns: SIZE AND MARK, NO. OF BARS, LENGTH, WEIGHT (LBS). Lists various bar sizes and quantities for Span A.

Table: REINFORCING STEEL. Columns: SIZE AND MARK, NO. OF BARS, LENGTH, WEIGHT (LBS). Lists various bar sizes and quantities for Span B.

ABUT NO 1 (ABUT NO 4 SAME)

Table: REINFORCING STEEL. Columns: SIZE AND MARK, NO. OF BARS, LENGTH, WEIGHT (LBS). Lists various bar sizes and quantities for Abutment No 1.

PIER NO 2 (PIER NO 3 SAME)

Table: REINFORCING STEEL. Columns: SIZE AND MARK, NO. OF BARS, LENGTH, WEIGHT (LBS). Lists various bar sizes and quantities for Pier No 2.

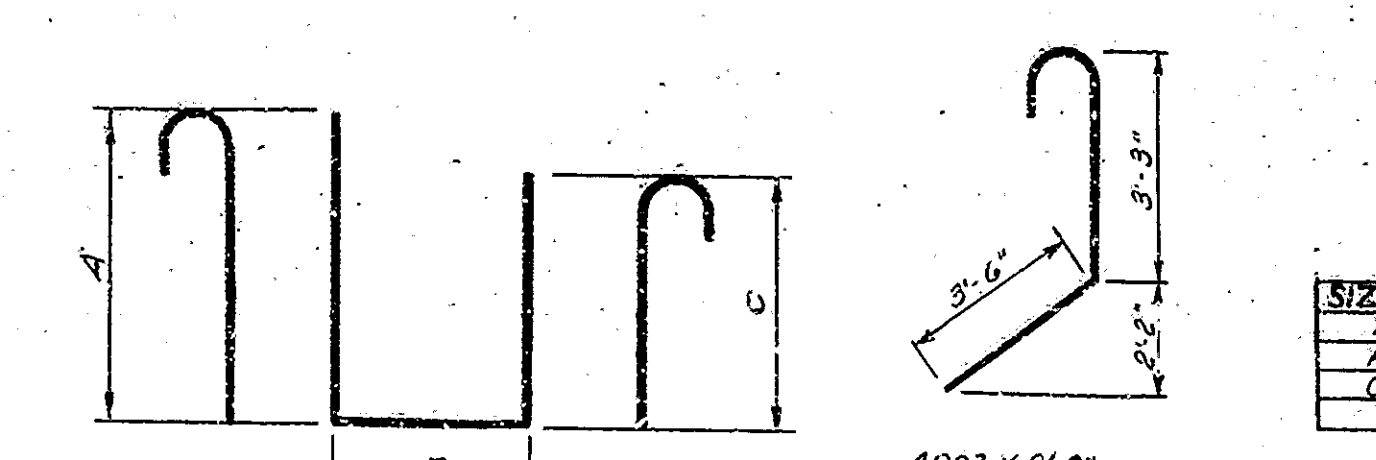


Table: REINFORCING STEEL. Columns: SIZE AND MARK, A, B, C, LENGTH. Lists bar sizes and lengths for Pier No 2.

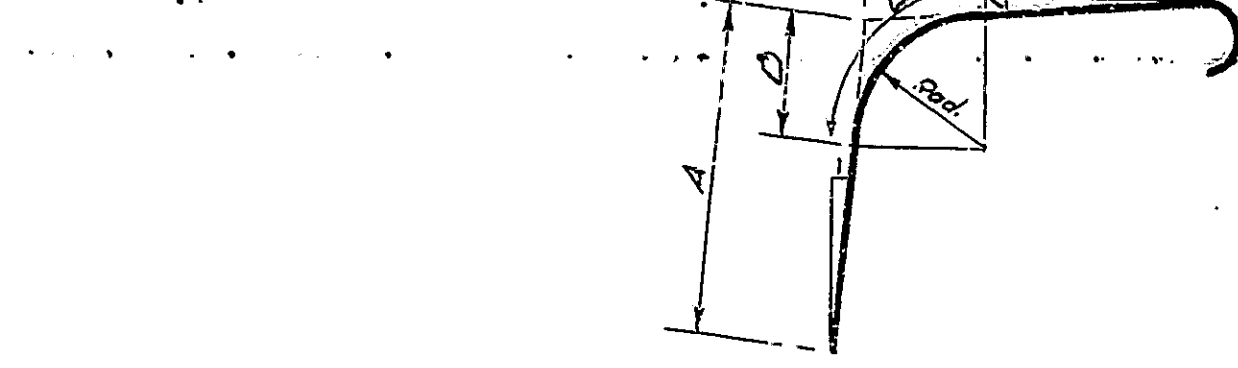


Table: REINFORCING STEEL. Columns: SIZE AND MARK, A, B, C, D, RADIUS, LENGTH. Lists bar sizes, radii, and lengths for Pier No 2.

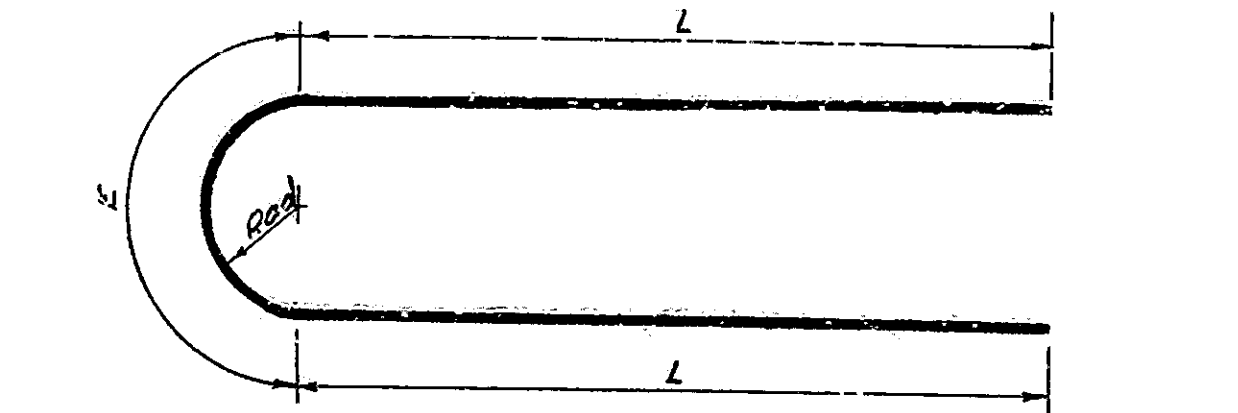


Table: REINFORCING STEEL. Columns: SIZE AND MARK, B, E, LENGTH. Lists bar sizes and lengths for Pier No 2.



Table: REINFORCING STEEL. Columns: SIZE AND MARK, A, B, C, D, LENGTH. Lists bar sizes and lengths for Pier No 2.

Table: REINFORCING STEEL. Columns: SIZE AND MARK, A, LENGTH. Lists bar sizes and lengths for Pier No 2.

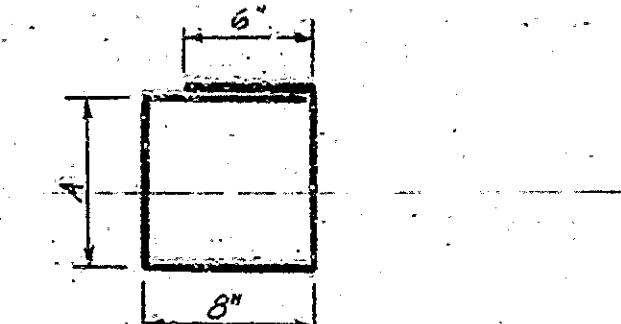


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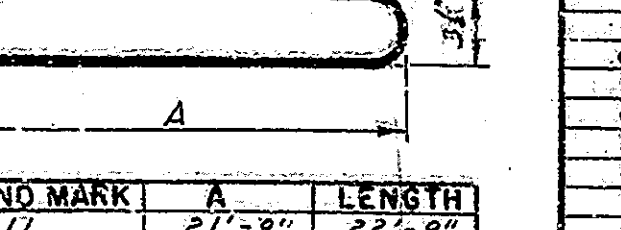


Table: REINFORCING STEEL. Columns: SIZE AND MARK, A, LENGTH. Lists bar sizes and lengths for Pier No 2.

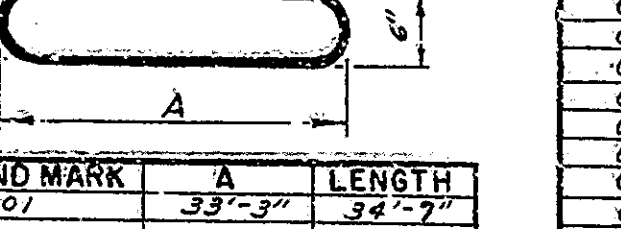


Table: REINFORCING STEEL. Columns: SIZE AND MARK, A, LENGTH. Lists bar sizes and lengths for Pier No 2.

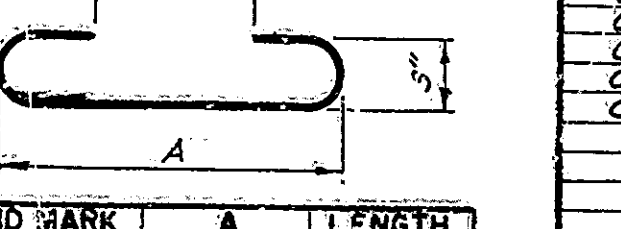


Table: REINFORCING STEEL. Columns: SIZE AND MARK, A, LENGTH. Lists bar sizes and lengths for Pier No 2.

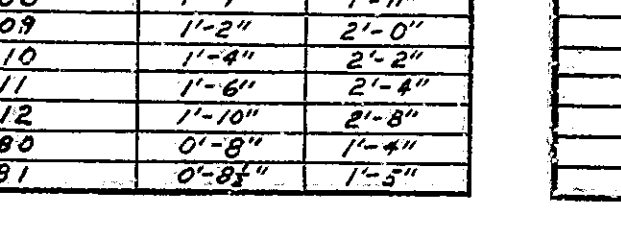


Table: REINFORCING STEEL. Columns: SIZE AND MARK, A, LENGTH. Lists bar sizes and lengths for Pier No 2.

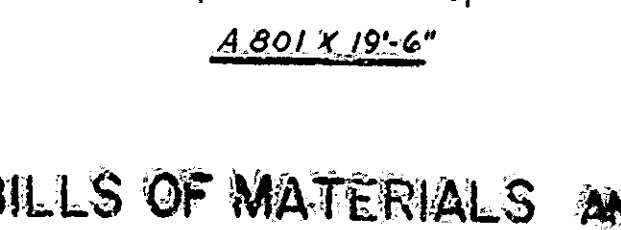


Table: REINFORCING STEEL. Columns: SIZE AND MARK, A, LENGTH. Lists bar sizes and lengths for Pier No 2.

Table: REINFORCING STEEL. Columns: SIZE AND MARK, A, B, LENGTH. Lists bar sizes and lengths for Pier No 2.

Table: REINFORCING STEEL. Columns: SIZE AND MARK, A, LENGTH. Lists bar sizes and lengths for Pier No 2.

Table: REINFORCING STEEL. Columns: SIZE AND MARK, A, LENGTH. Lists bar sizes and lengths for Pier No 2.

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Table: REINFORCING STEEL. Columns: SIZE AND MARK, A, LENGTH. Lists bar sizes and lengths for Pier No 2.

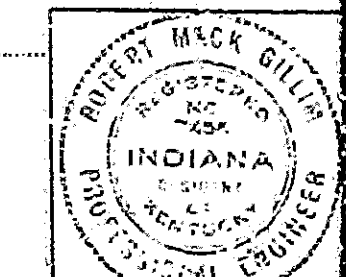
Table: REINFORCING STEEL. Columns: SIZE AND MARK, A, LENGTH. Lists bar sizes and lengths for Pier No 2.

Table: REINFORCING STEEL. Columns: SIZE AND MARK, A, LENGTH. Lists bar sizes and lengths for Pier No 2.

Table: REINFORCING STEEL. Columns: SIZE AND MARK, A, LENGTH. Lists bar sizes and lengths for Pier No 2.

BILLS OF MATERIALS AND BENDING DIAGRAMS
STATE HIGHWAY DEPARTMENT OF INDIANA

SCALE: NONE
SUBMITTED FOR APPROVAL: [Signature]
DRAWING: C-0 OF 8
PROJECT: I-03-1410
BRIDGE CONTRACT NO. 4412
BRIDGE FILE: 31-89-4138
JAN. 13, 1958
STA. 133+50



NOTE: 4" Drains (Steel Boiler Tubing) Billed as Cast Iron on Summary Sheet. 12 oz. Soft Copper Flashing included in cost of adjacent concrete.

NOTE: See Bridge Stal. C for reinforcing bar notes.

EACH SPAN
1 Rdwy. Drain, Type J @ 120"
1 Grate, Type A @ 72"
1-6" C.I. Soil Pipe @ 50"
Total Cost 170"

DESIGNED: CKD
DRAWN: GTC
TRACED: CKD

