

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.			1	23
STATE JOB NO. 11201					

STATE OF ARKANSAS  
STATE HIGHWAY COMMISSION

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2	G417	Quantity Sheet and Typical Section
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7	G420	Details of I-Beam Spans
8	G421	Details of Piers
9-10	G422-G423	Details of Truss Span
11	2387	of Bridge Nameplates and Right of Way Markers
12	1629	Basis for Computing Excavation for Structures
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21	G418-D	Map at Bridge Site
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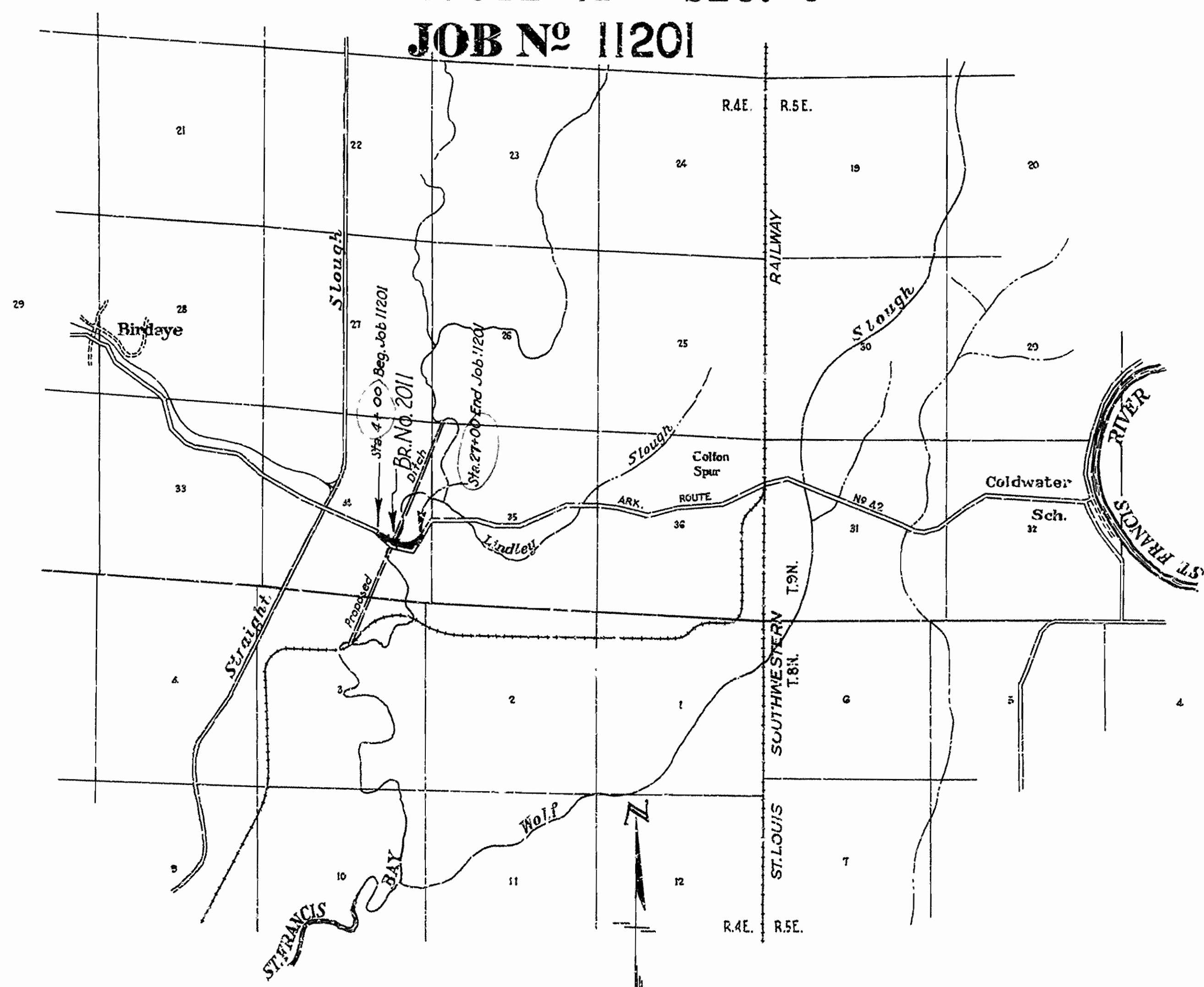
QUANTITIES

PLAN OF PROPOSED BRIDGE  
ST. FRANCIS BAY DITCH

CROSS COUNTY

ROUTE 42 SEC. 3

JOB No 11201



SPECIFICATIONS: Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction adopted March 1st, 1940

- PAMPHLETS  
Division I  
II Parts 1, 8a, 8b, 8c, 9  
III  
IV
- SPECIAL PROVISIONS

2-1	Rev. of Art. 2.11	No. of Sheets
2-2	" " " 2.5	1
4-1	" " " 4.3	1
	State License for Contractors	1
8-2	Employment of Labor	1
9-3	Partial Payments	1
9-6	Common Carrier Rates	1
107-4	Rev. of Art. 107.5	1
450-3	Furnishing Traffic Service Gravel	1
456-3	Traffic Service Gravel	3
803-1	Rev. of Art. 803.21	1
850-1	Engineer's Field Office	1
853-1	Machine Fixing	1
	Required Special Provisions (Job 11201)	1
	Erecting Truss span (Job 11201)	1
	Award of Contract (6-9-44)	1
	Equipment and Priority (6-23-44)	2
	Revision of Art. 16 (5-7-44)	1

Revisions:  
6-7-44  
6-15-44

LAYOUT  
Scale: 2 in. = 1 Mi.

LENGTH OF PROJECT=	2300.0 FT. = 0.435 MI.
LENGTH OF BRIDGES=	349.54 FT. = 0.066 MI.
LENGTH OF EMBANKMENT=	1450.46 FT. = 0.274 MI.
LENGTH OF JOB=	2300.0 FT. = 0.435 MI.

APPROVED

CHAIKMAP - STATE HIGHWAY COMMISSION

APPROVED

STATE HIGHWAY ENGINEER

*N. O. Blawie*  
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

BRIDGE No. 2011

DRAWING No. G416

170. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	ARK.			2	23
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TRAFFIC SERVICE GRAVEL

Station	Station	Length	Normal Cu. Yd.	Widening Cu. Yd.
4+00	12+86.00	886.00	310	
16+35.54	27+00	1064.46	373	40
Total			683	40

CLEARING AND GRUBBING

Station	Station	Clearing Acre	Grubbing Acre
4+00	27+00	1.50	1.00

EARTH WORK FOR HWY. EMBANKMENT

Station	Station	Normal Cu. Yd.	Borrow* Cu. Yd.	Total
4+00	12+86	2023		2023
16+35.54	27+00	477	6791*	7268
Totals		2500	6791*	9291

\* To be obtained from channel excavation

R/W MARKERS

Description	Class A Concrete Cu. Yd.	Reinforcing Steel Lb.
16 R/W Markers	0.40	35

CHANNEL EXCAVATION

Ditch Station	Ditch Station	West Bank Cu. Yd.	East Bank Cu. Yd.	To be placed in spoil bank Cu. Yd.	To be placed in Highway Fill Cu. Yd.
4+45	7+80	2660		2660	
4+75	7+50		4684		4684
7+50	12+50		11476	9369	
Totals		2660	16160	12029	6791

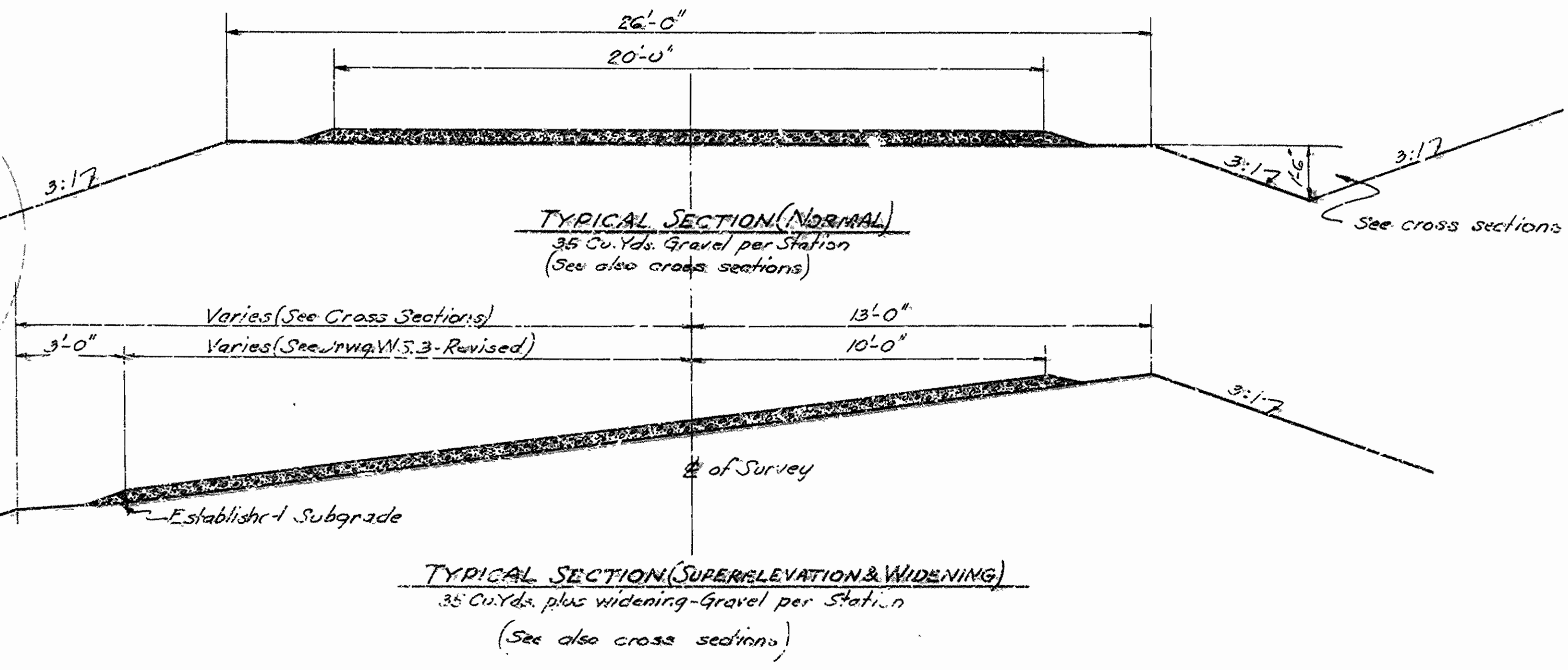
18,820      18,820

BRIDGE QUANTITIES

Item No.	Item	Unit	Bents 1&7	Bents 2,6&10	Piers 1&2	Spans 1&8	Spans 2&6,7	Spans 3&4,5	Span 4	Total
103	Dry Excavation for Structures	Cu. Yd.			25					25
103	Wet Excavation for Structures	Cu. Yd.			480					480
SP#802	Class A Concrete for Bridges	Cu. Yd.			201.60					201.60
SP#802	Class S Concrete for Bridges	Cu. Yd.				27.96	36.57	24.30	99.78	188.61
SP#802	Seal Concrete for Bridges	Cu. Yd.			117.50					117.50
SP#803	Reinforcing Steel	Lb.			11573	6170	8730	5820	20267	52560
805	Concrete Railing	Lin. Ft.				104	144	96		344
807	Structural Steel in Beam Spans	Lb.	266	214		16300	27220	18100		62100
807	Structural Steel in Truss Spans	Lb.						2400		2400
809	Treated Bridge Timber	M.F.B.M.	1232	1960						3192
810	Untreated Timber Piling	Lin. Ft.			1440					1440
810	Treated Timber Piling	Lin. Ft.	420	1000						1420
810	Treated Timber Pile Cut-off	Lin. Ft.	28	50						78
929	Bridge Name Plates (Type B)	Each	2							2
S.P.	Erecting Truss Span	Complete								Complete

SUMMARY OF QUANTITIES

Item No.	Item	Quantity	Unit
101	Clearing	1.50	Acre
101	Grubbing	1.00	Acre
102	Common Excavation	21,320	Cu. Yd.
103	Dry Excavation for Structures	25	Cu. Yd.
103	Wet Excavation for Structures	480	Cu. Yd.
SP#50-5	Traffic Service Gravel (Class S-1,2,3,4,5 or 7)	723	Cu. Yd.
SP#802	Class A Concrete for Bridges	201.60	Cu. Yd.
SP#802	Class S Concrete for Bridges	188.61	Cu. Yd.
SP#802	Seal Concrete for Bridges	117.50	Cu. Yd.
SP#803	Reinforcing Steel	52560	Lb.
805	Concrete Railing	344	Lin. Ft.
807	Structural Steel in Beam Spans	62100	Lb.
807	Structural Steel in Truss Spans	2400	Lb.
809	Treated Bridge Timber	3192	M.F.B.M.
810	Untreated Timber Piling	1440	Lin. Ft.
810	Treated Timber Piling	1420	Lin. Ft.
810	Treated Timber Pile Cut-off	78	Lin. Ft.
929	Class A Concrete	0.40	Cu. Yd.
902	Reinforcing Steel	35	Lb.
929	Bridge Name Plates (Type B)	2	Each
S.P.	Erecting Truss Span	Complete	Lump Sum



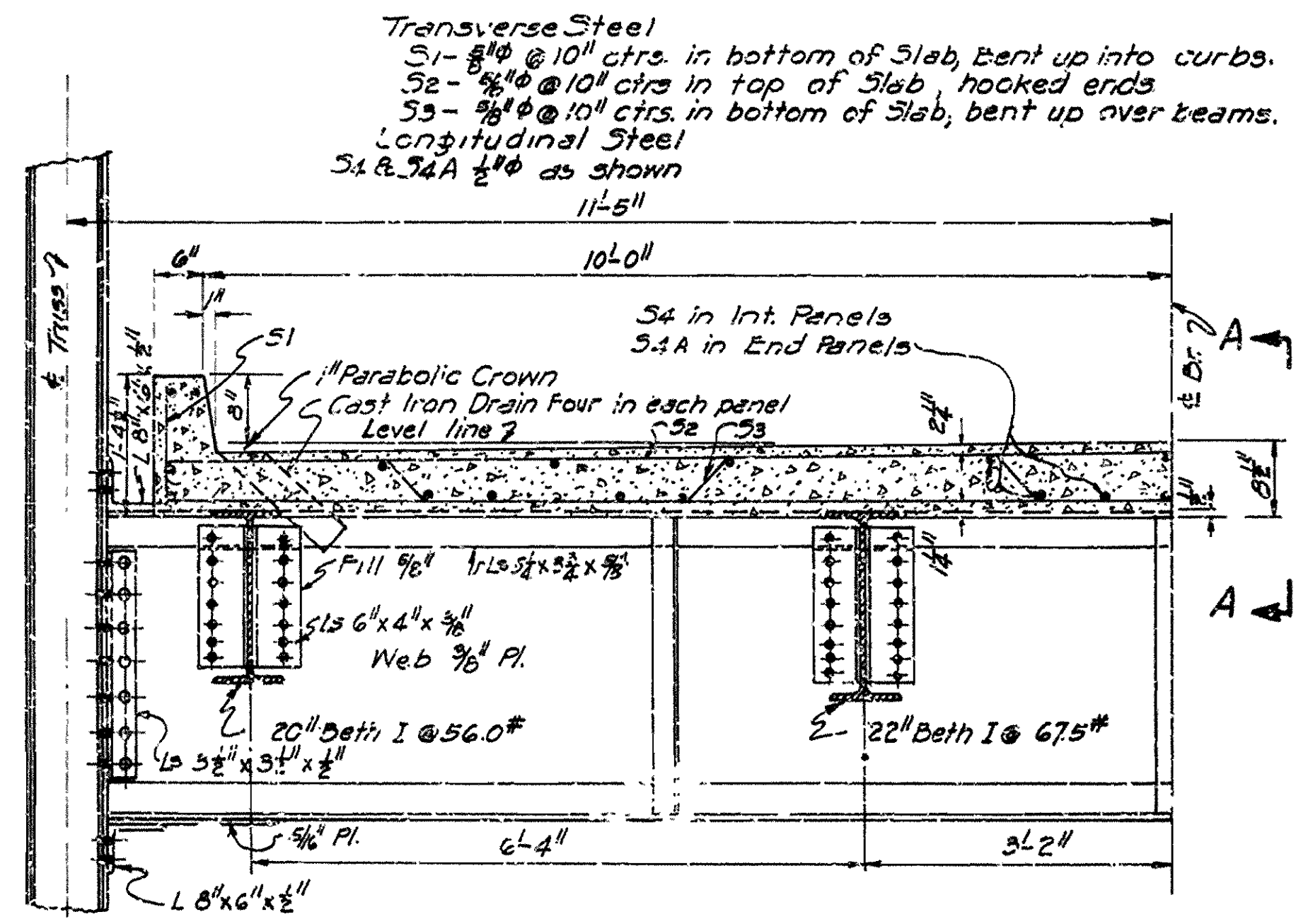
Revisions:  
6-6-44  
6-15-44

SUMMARY SHEET  
BRIDGE OVER ST. FRANCIS BAY DITCH  
CROSS COUNTY  
CHERRY VALLEY - TURREL ROAD  
ROUTE 42 SEC. 3

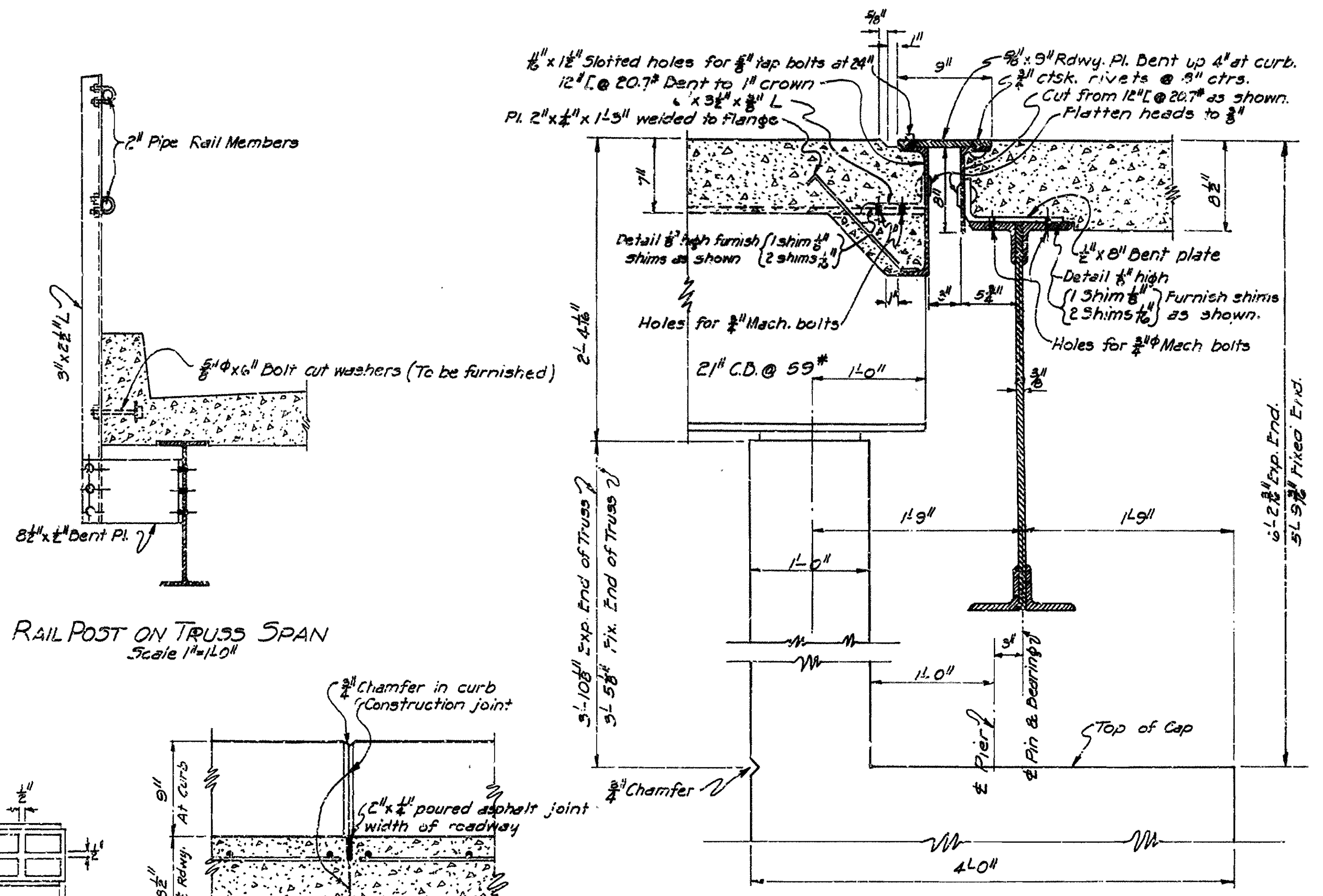
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
Drawn By: L.P.C. Date: \_\_\_\_\_  
Traced By: L.P.C. Date: 2-16-43  
Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
Scale: 1" = 10'  
BRIDGE NO. 2011 DRAWING NO. 6417

*L.P.C.*  
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

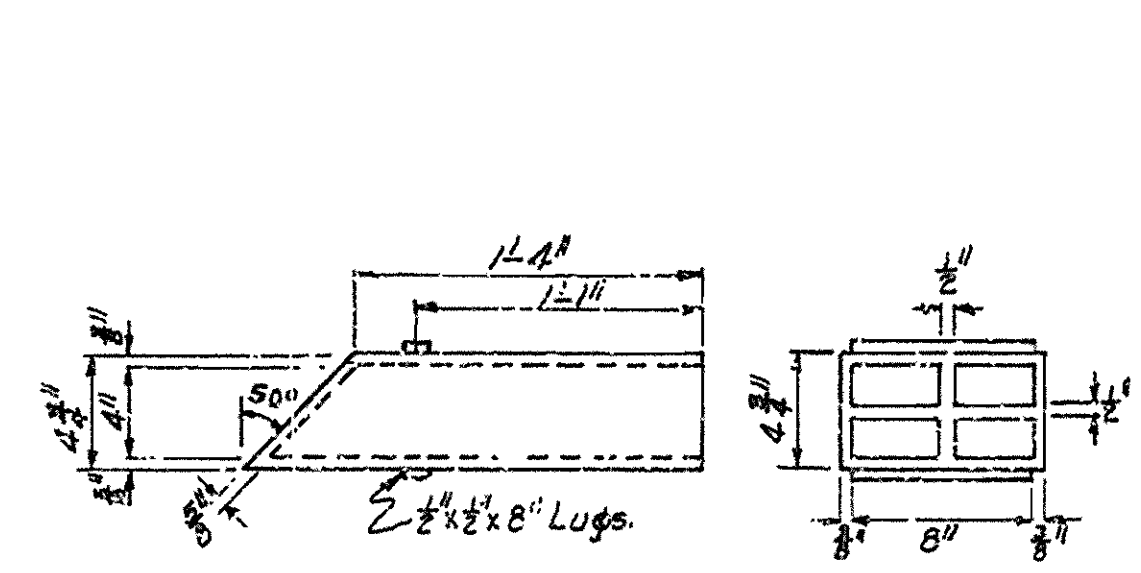
FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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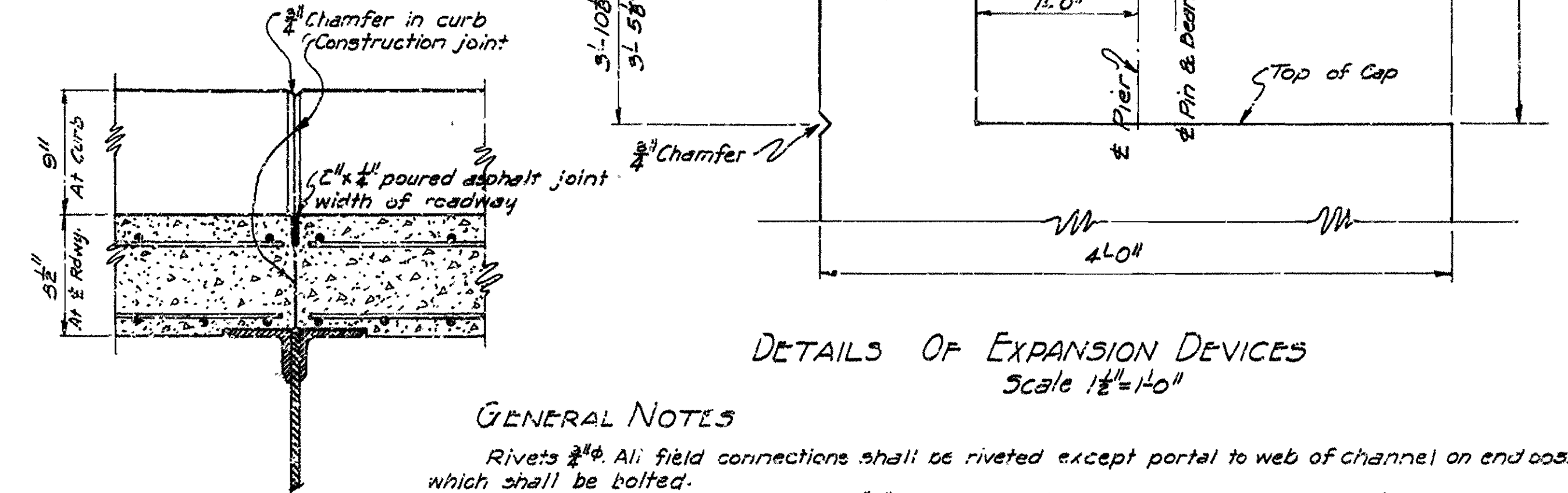
HALF TRANSVERSE SECTION  
 Scale 3/4" = 1'-0"



RAIL POST ON TRUSS SPAN  
 Scale 1" = 1'-0"

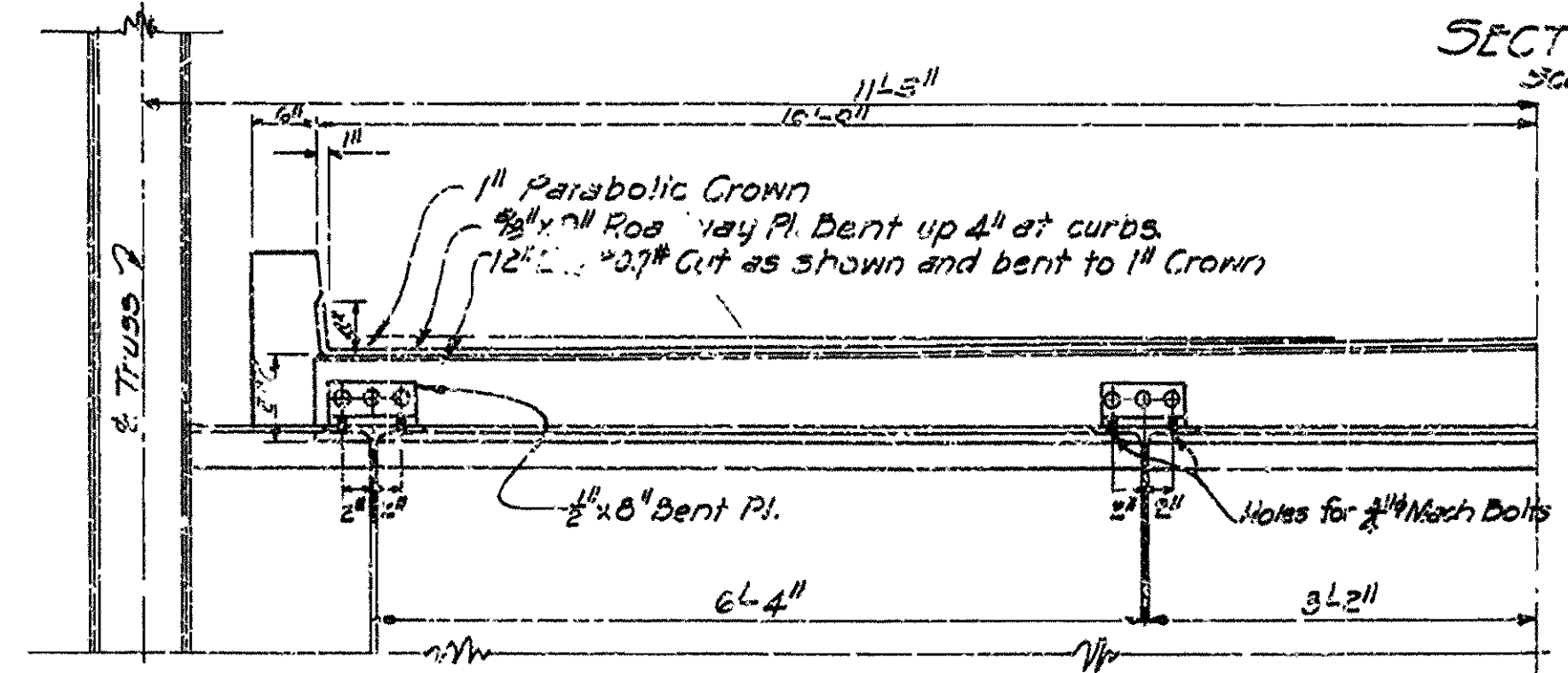


DETAILS OF CAST IRON DRAINS  
 Scale 1 1/2" = 1'-0"



DETAILS OF EXPANSION DEVICES  
 Scale 1 1/2" = 1'-0"

LIST OF BENT BARS						BENDING DIAGRAM	
NUMBER	MARK	SIZE	LENGTH	A	B		C
219	S1	5/8"	22'-7"	20'-7"	1'-0"		
219	S2	5/8"	21'-4"	20'-7"			
212	S3	5/8"	22'-3"	2'-1"	9'-0"	2'-7"	
160	S4	1/2"	25'-6"	Straight			
6A	S4A	1/2"	26'-0"				Intermediate Panels
							End Panels



DETAILS OF EXPANSION DEVICE ON TRUSS SPAN  
 Scale 3/4" = 1'-0"

Details not shown same as above.

GENERAL NOTES

Rivets 3/8". All field connections shall be riveted except portal to web of channel on end post which shall be bolted.  
 Floor slab: Concrete to be Class "5" One inch has been added for wearing surface. Roadway drains to be paid for as "Reinforcing Steel."  
 All material in roadway expansion devices on truss span, anchor bolts, rivets and bolts for connections shall be paid for as "Structural Steel in Truss Span."  
 Floor Slab from floorbeam to floorbeam to struck off with full panel length longitudinal screed. This screed shall be sufficiently stiff as to have no appreciable vertical deflection.  
 Specifications: Arkansas State Highway Commission Standard Specification for Road and Bridge Construction adopted March 1st. 1940.

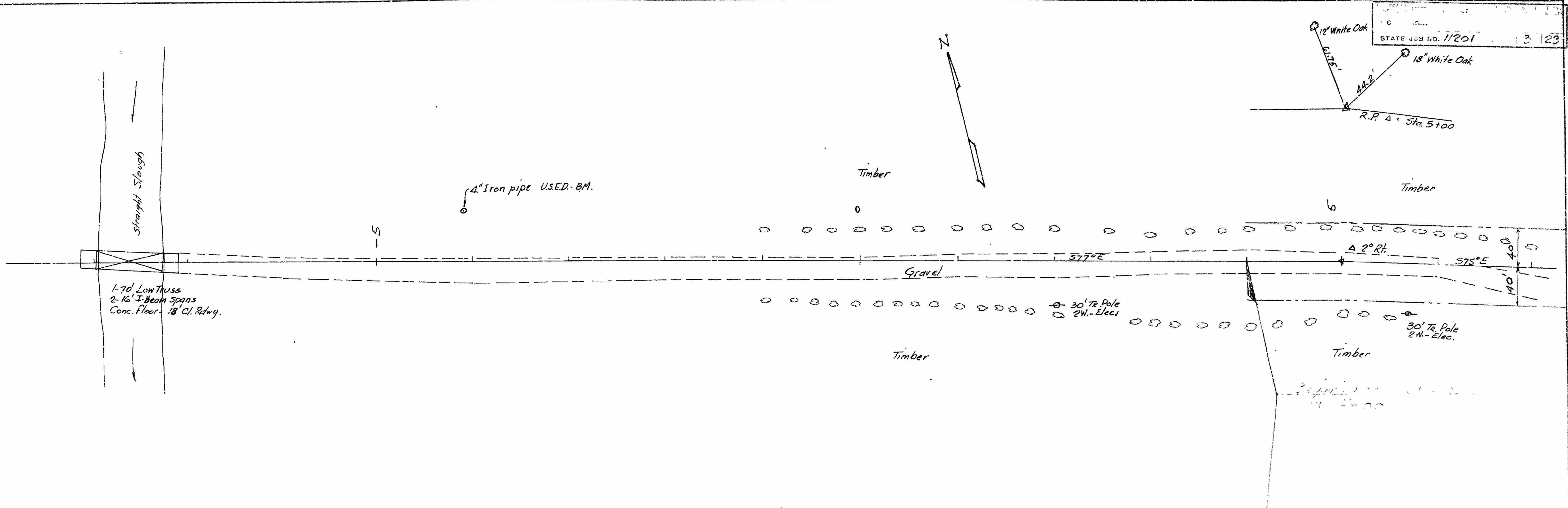
DETAILS OF 180' TRUSS SPAN  
 ST. FRANCIS BAY BRIDGE  
 OVER CROSS COUNTY DRAINAGE DITCH  
 ROUTE 42 SEC. 3

ARKANSAS STATE HIGHWAY COMMISSION  
 LITTLE ROCK, ARK.  
 Drawn By: L.A.M. Date: 3-29-45  
 Traced By: L.A.M. Date: 4-1-45  
 Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
 BRIDGE NO. 2011 DRAWING NO. 6422

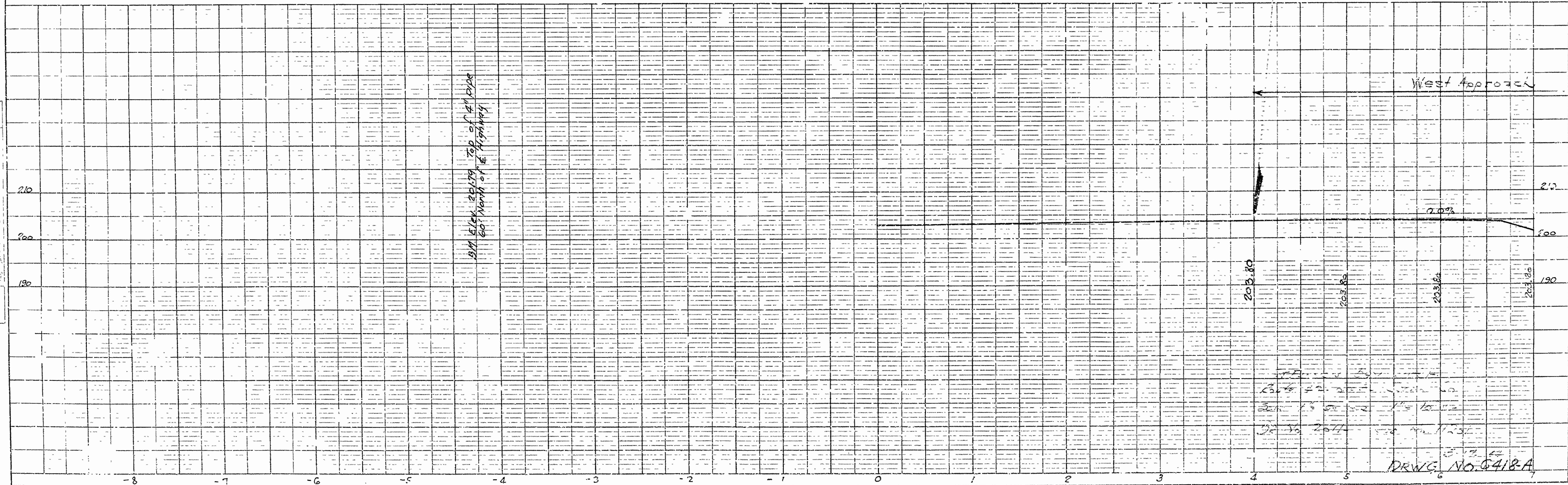
M. O. Sawyer  
 PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

STATE JOB NO. 11201 3 23

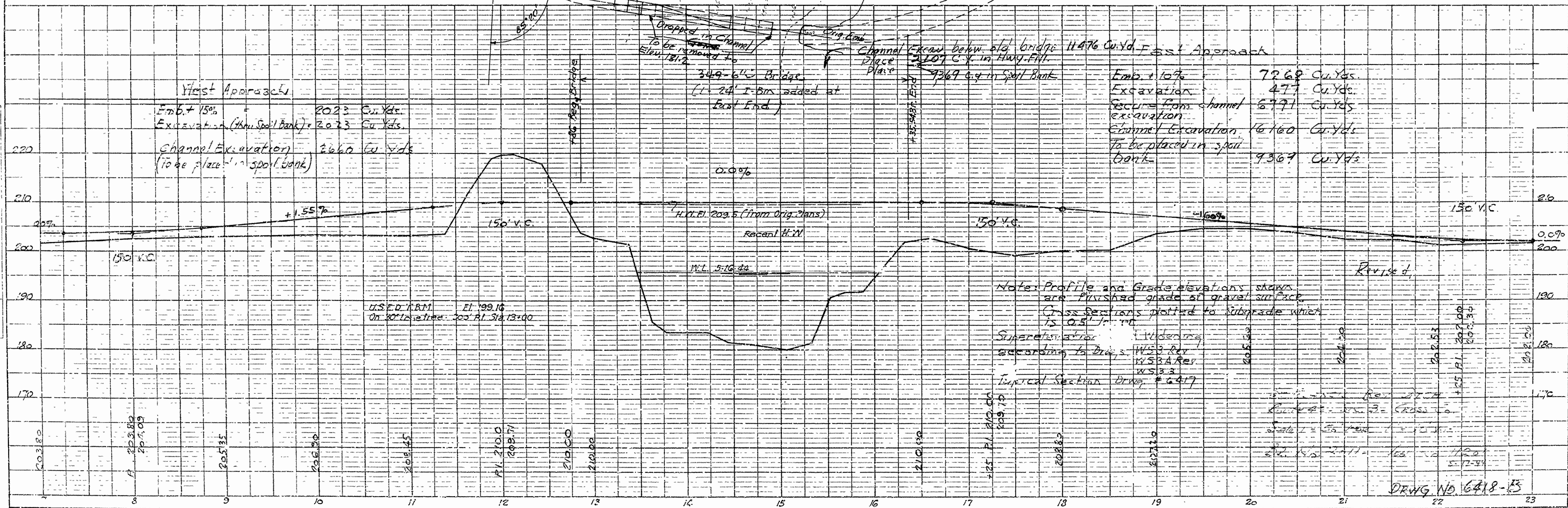
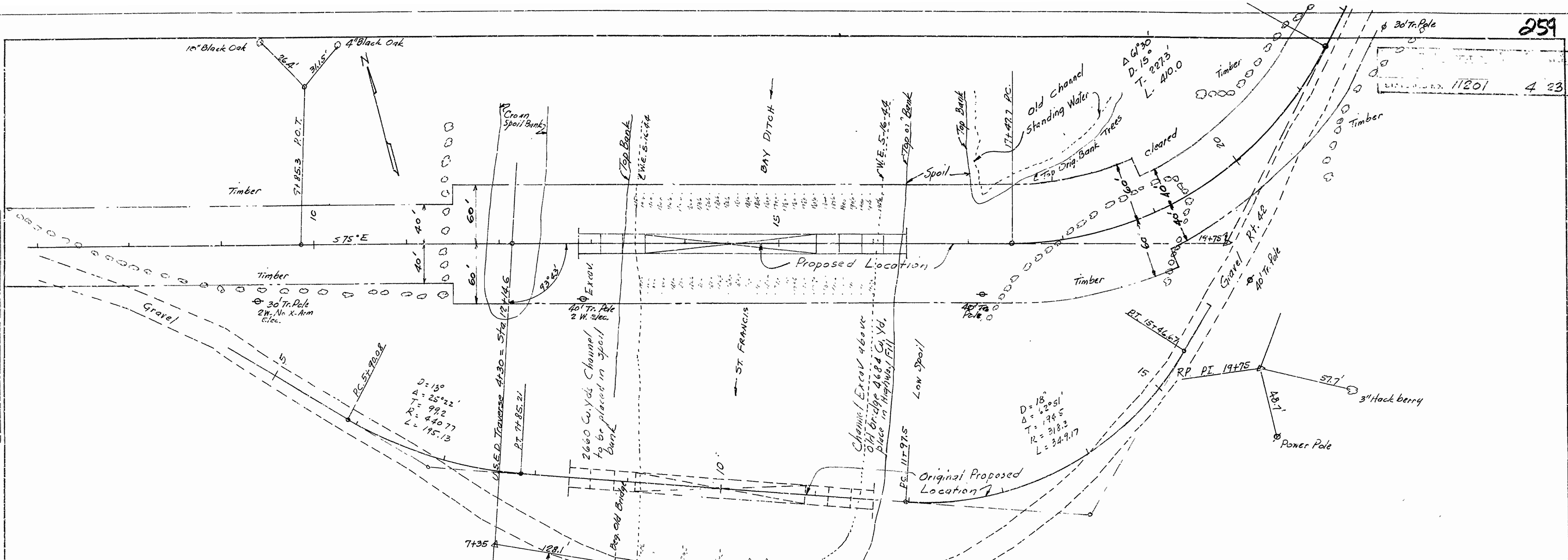
PLAN



PROFILE

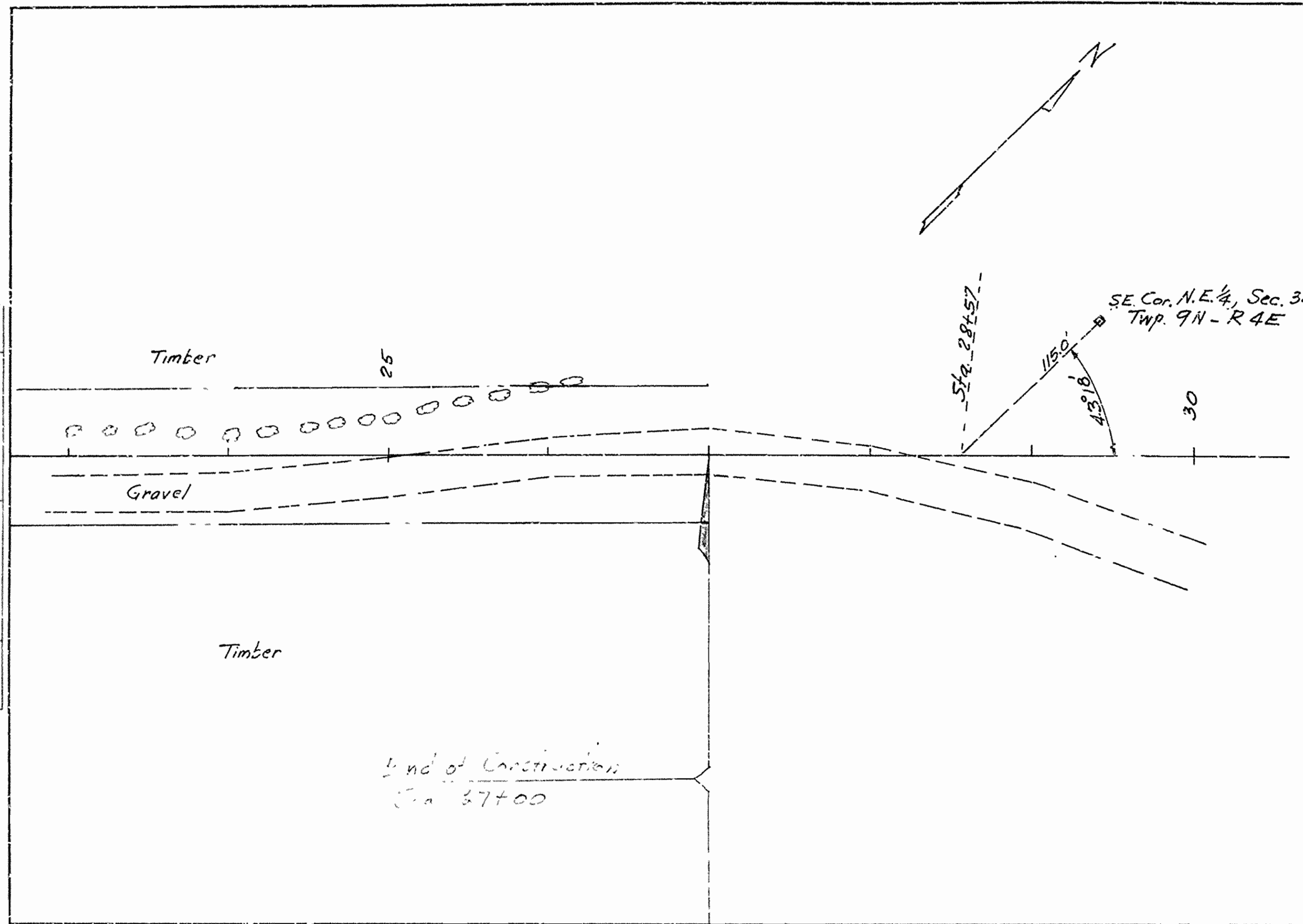


11201 4 23

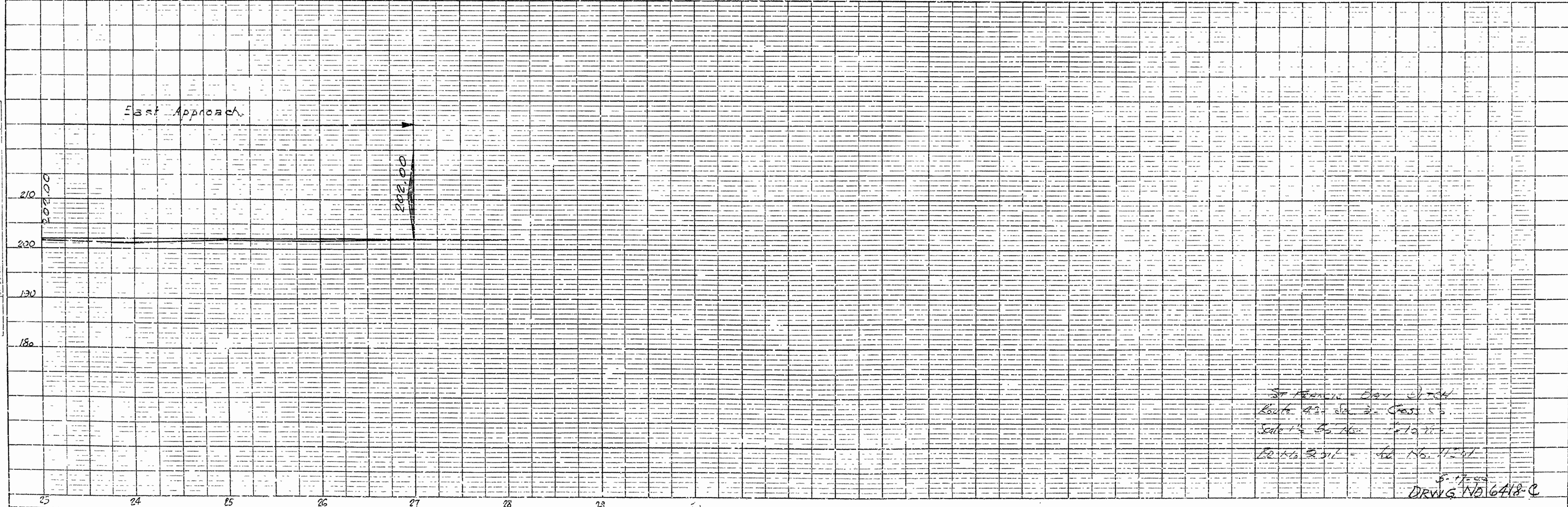


DRWG. NO. 6418-13

PLAN  
 NOT TO SCALE  
 DATE



PROFILE  
 NOT TO SCALE  
 DATE



ST FRANCIS DIST. CHURCH  
 Route 42 - Sta 3 - Cross 53  
 Scale 1" = 50' Hor. 1" = 10' Vert.  
 DRWG. NO. 6418-C  
 5-17-54

137	6	ARK.	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6					21	23
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Curve Data  
 D = 15' 0"  
 L = 41' 30"  
 T = 23' 3"  
 L = 41' 0"  
 R = 293' 0"

Curve Data  
 D = 30' 0"  
 L = 205' 57"  
 T = 59' 74"  
 L = 59' 22' 6"

A temporary Bridge will be constructed by the Ark. Highway Department at this location. This bridge will be removed by the Highway Department as soon as traffic can be routed over the new bridge and the contractor shall then complete the ditch excavation at this location.

Original Bridge which dropped in Ditch Channel shall be removed to elevation 181.2 M.G.L.

**COMMON EXCAVATION**

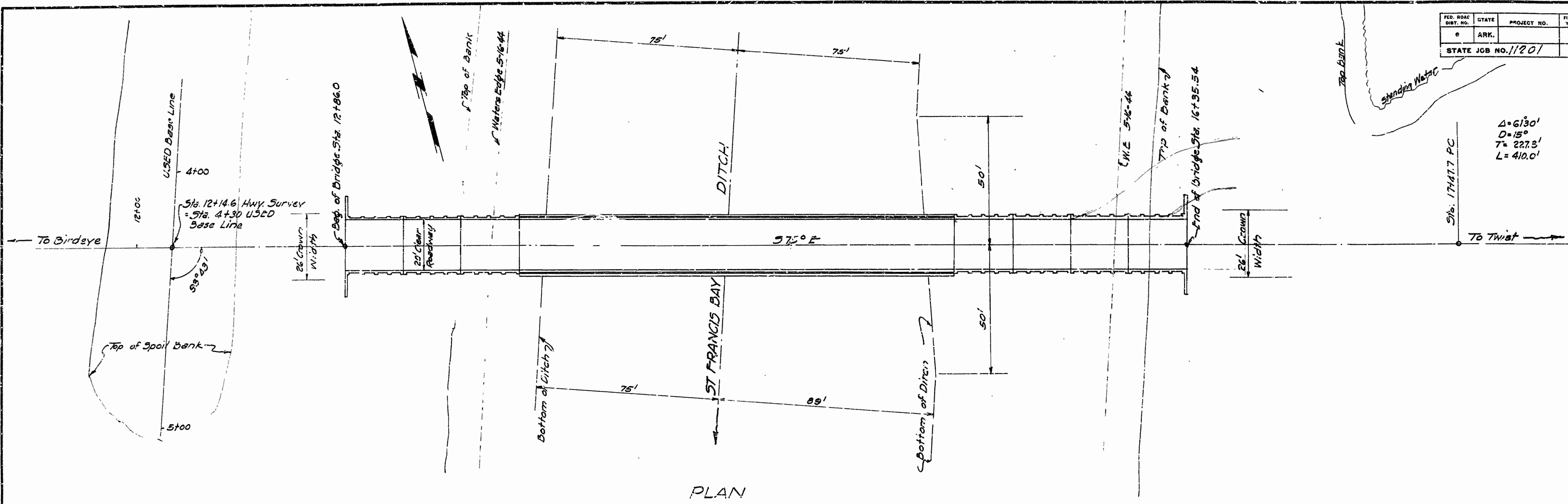
	Cu. Yds.
West Roadway Approach & Spoil Bank	2,023
West side Ditch Channel Change (Spoil)	2,660
East Roadway Approach	477
East side Ditch Channel Change (Spoil and East Approach Fill)	16,160
<b>Total</b>	<b>21,320</b>

Note: All Elevation Mean Gulf Level

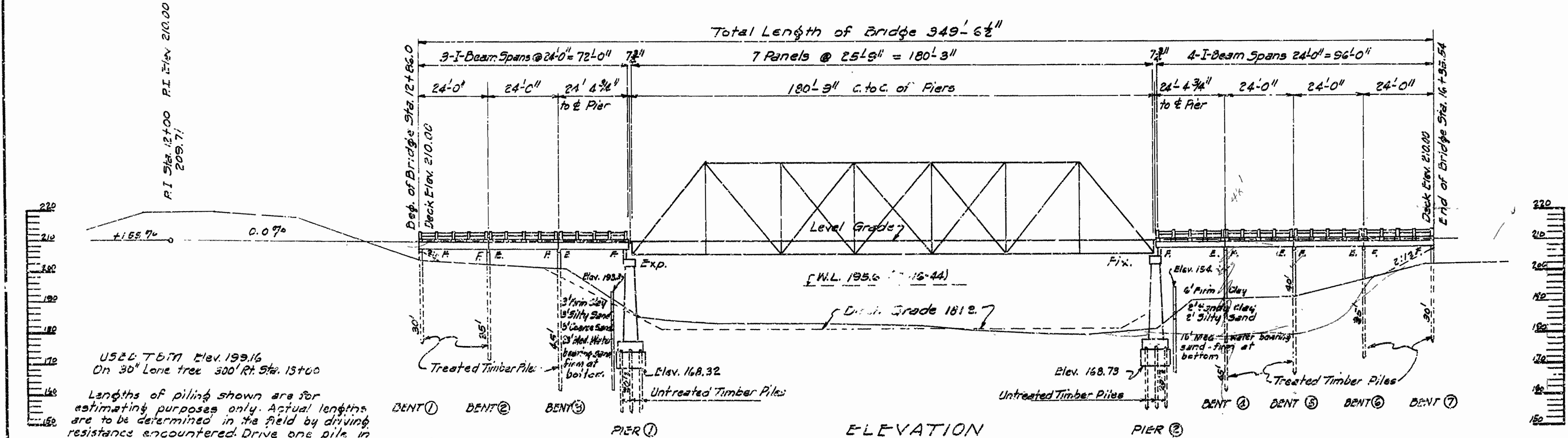
**ST. FRANCIS BAY DITCH**  
 ROUTE 42 - SEC. 3 - CROSS COUNTY  
 SCALE 1" = 50'  
 Br. No. 2011 Job No. 11201  
 17 JUNE 1944

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	ARK.			6	23
STATE JOB NO. 11201					

Δ = 6'30"  
 D = 15°  
 T = 227.3'  
 L = 410.0'



PLAN



ELEVATION

(NOTE: Soundings taken at original proposed location)

PILES AS DRIVEN

	PILE LENGTHS	
	Maximum	Minimum
BENT 1	27.9'	25.8'
BENT 2	30.9'	33.0'
BENT 3	47.0'	44.5'
PIER 1	22.1'	26.2'
PIER 2	21.2'	20.5'
BENT 4	45.4'	43.6'
BENT 5	40.7'	38.0'
BENT 6	36.0'	26'
BENT 7	30.8'	27.5'

US 22 T 5.77 Elev. 193.16  
 On 30" Lane tree 500' Rt. Sta. 15+00  
 Lengths of piling shown are for estimating purposes only. Actual lengths are to be determined in the field by driving resistance encountered. Drive one pile in each of Bents 3 and 5 as test piles.

RE-DRAWN 6-5-44

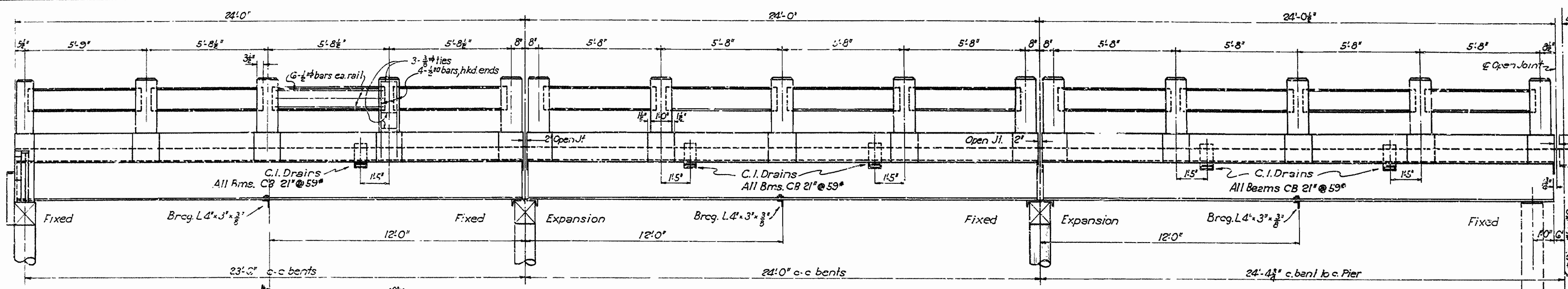
LAYOUT OF  
 BRIDGE OVER ST. FRANCIS BAY DITCH  
 CHERRY VALLEY-TURRELL ROAD  
 CROSS COUNTY  
 ROUTE 42 SEC. 3

ARKANSAS STATE HIGHWAY COMMISSION  
 LITTLE ROCK, ARK.  
 Drawn By: L.P.C. Date: 6-5-44  
 Traced By: L.A.M. Date: 6-5-44  
 Checked By: Date: \_\_\_\_\_  
 BRIDGE 110. 2011 DRAWING NO. 6419  
 Scale: 1 in. = 20 ft.

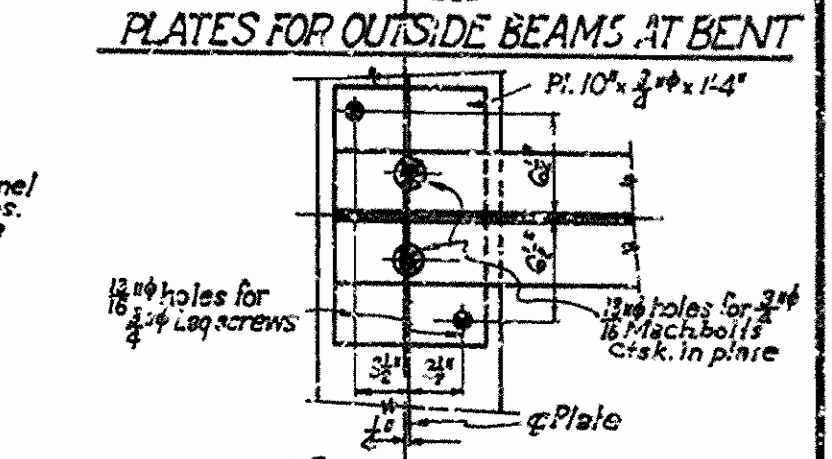
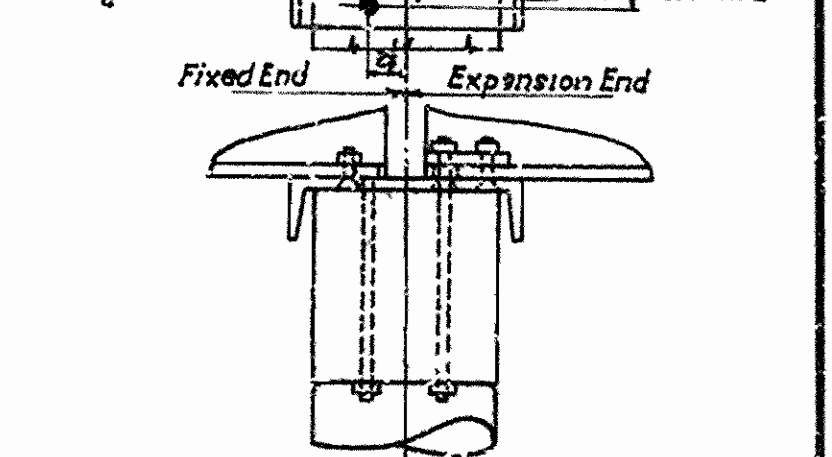
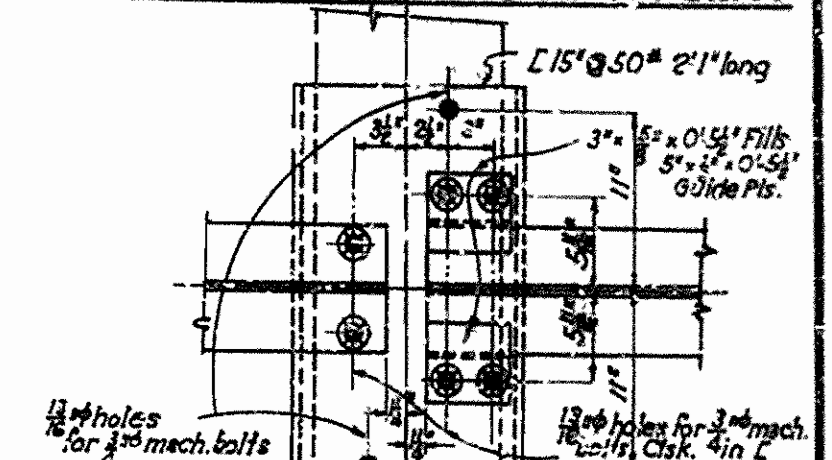
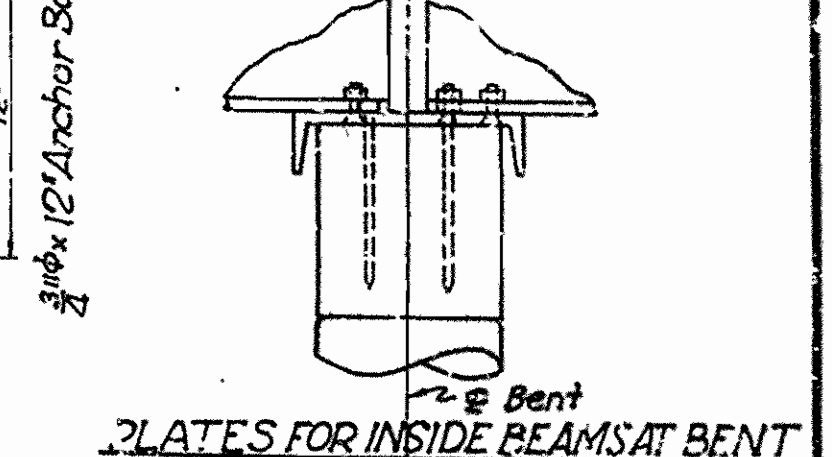
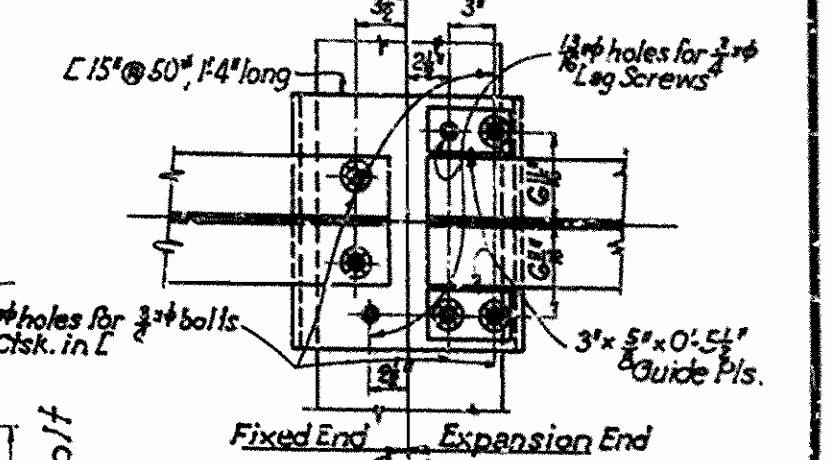
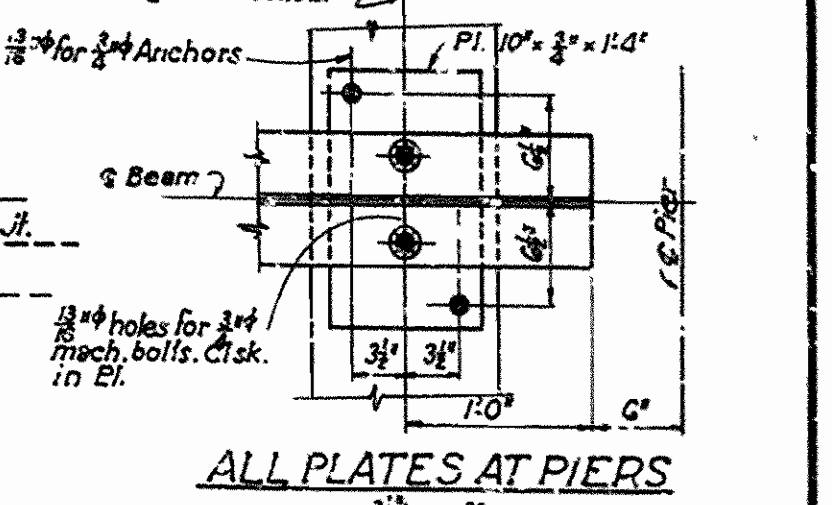
M.R. Gentry  
 PRINCIPAL HIGHWAY ENGINEER (BR. 601)



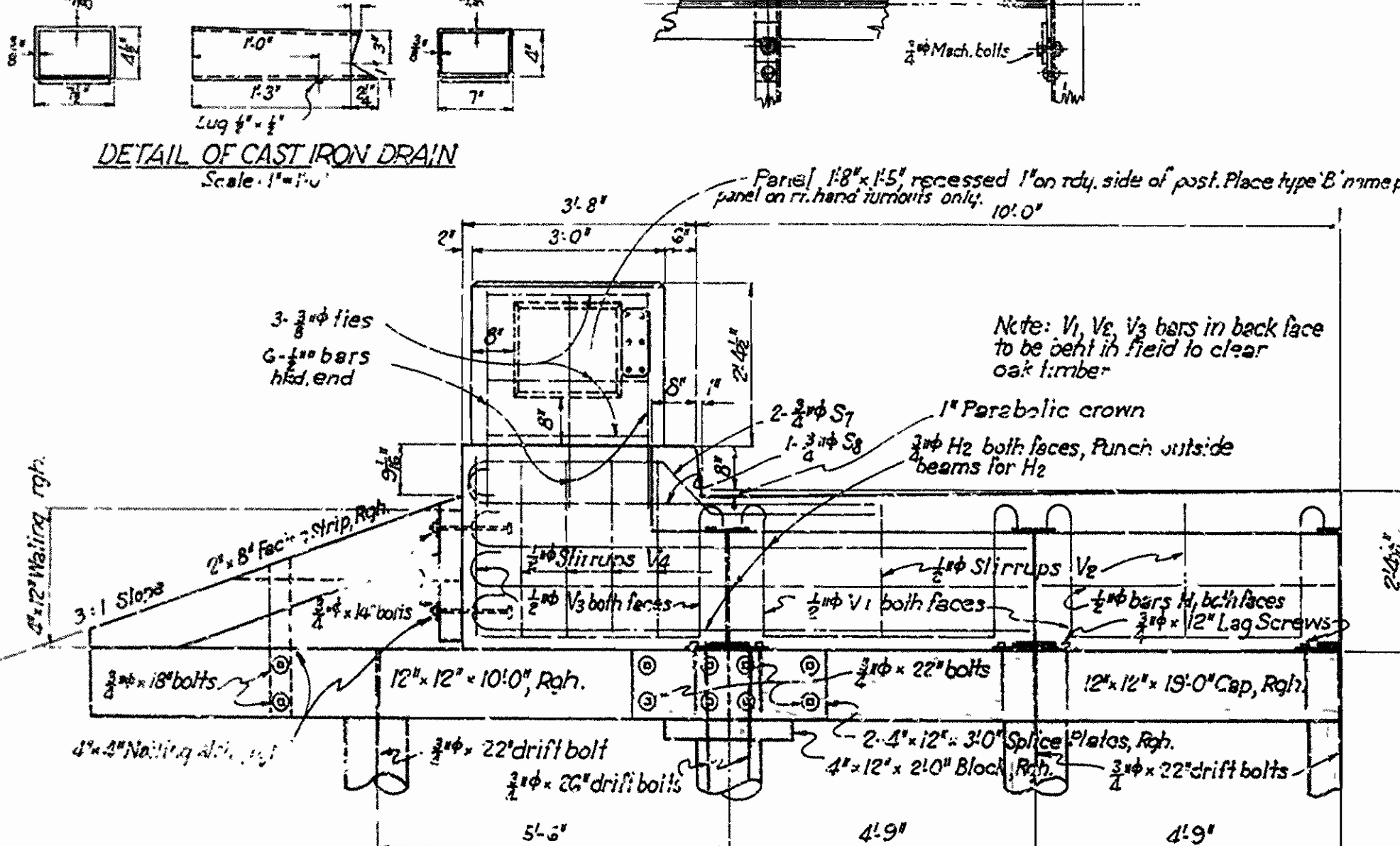
F.D. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.			7	23
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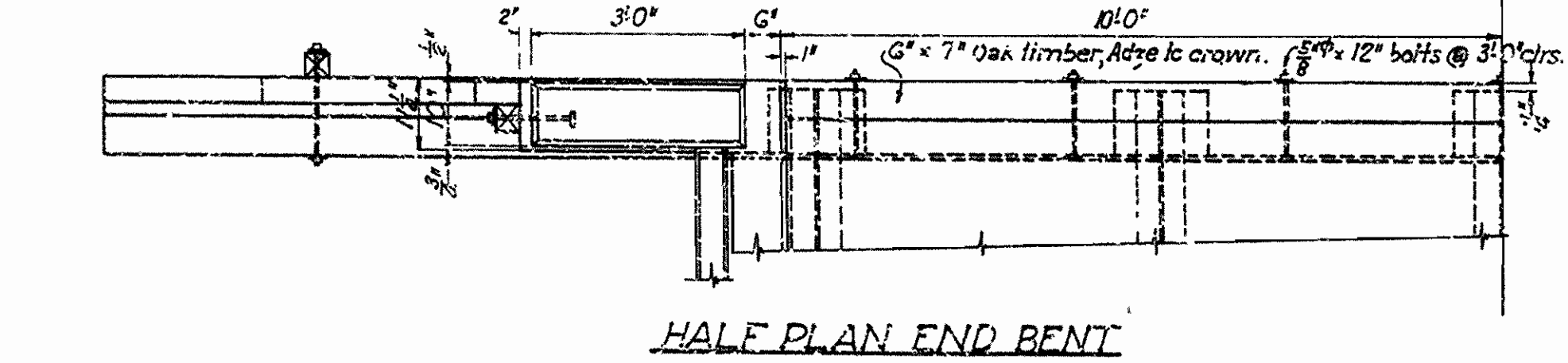
**ELEVATION OF APPROACH**  
Scale: 3/8" = 1'-0"



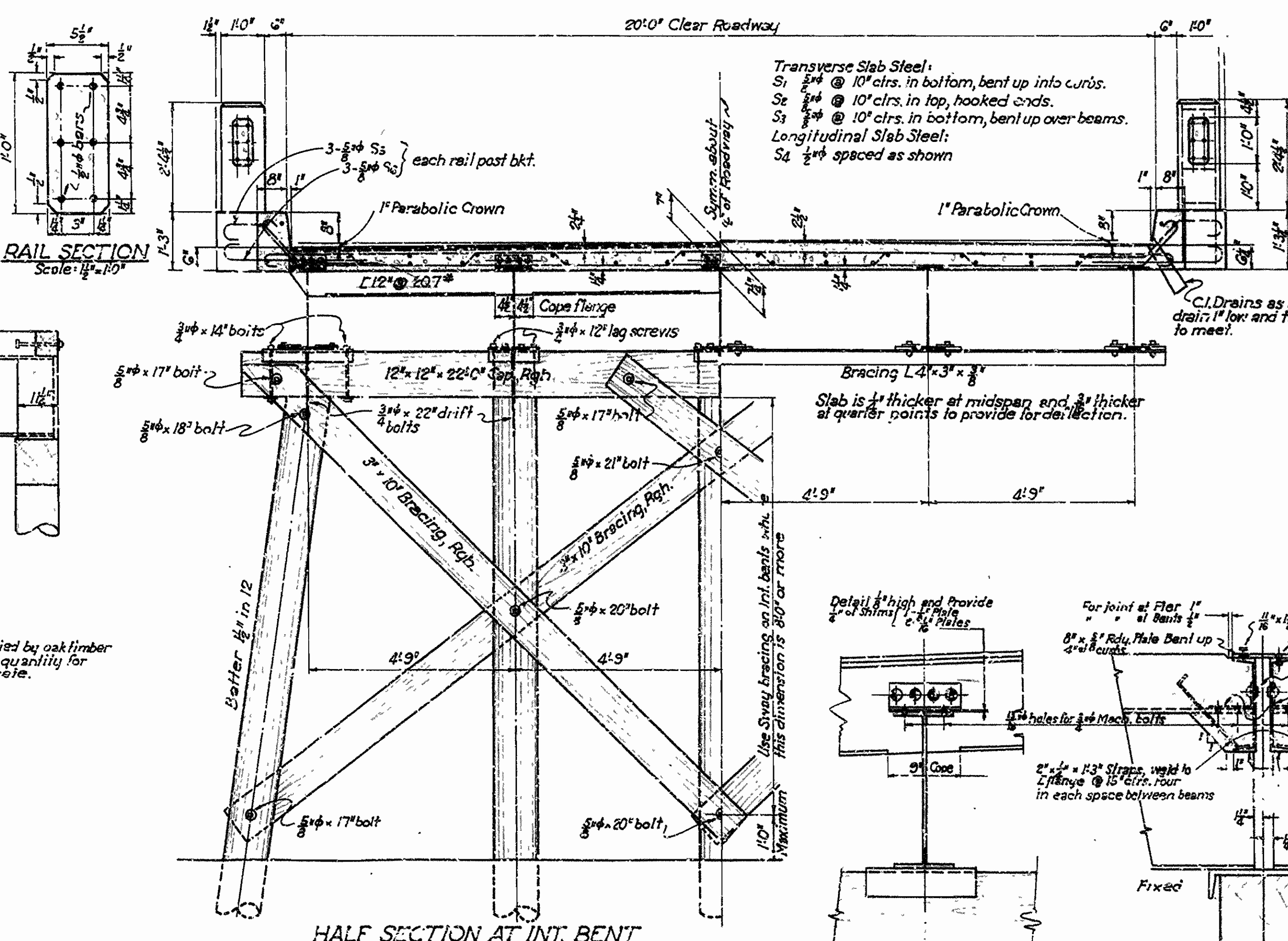
**ALL PLATES AT END BENTS**  
Scale: 1" = 1'-0"



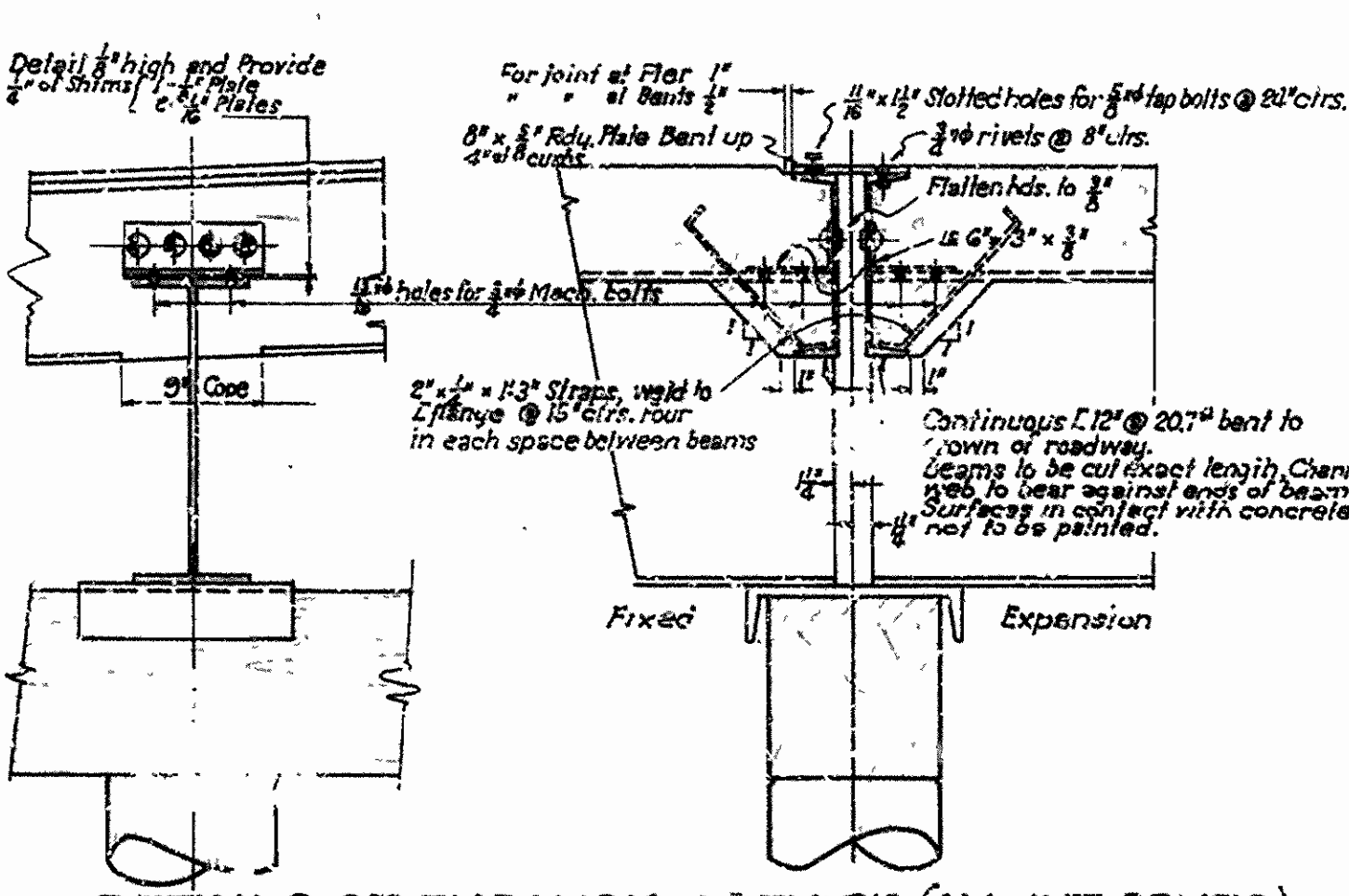
**HALF FRONT ELEVATION END BENT**



**HALF PLAN END BENT**



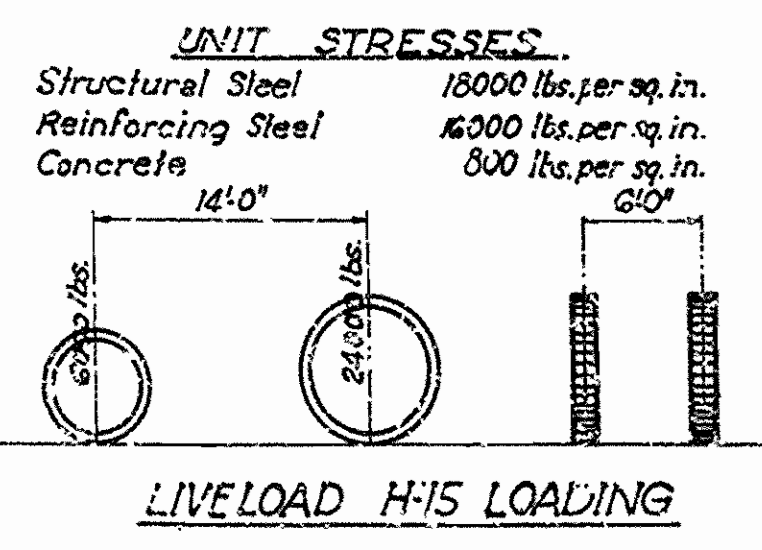
**HALF SECTION AT INT. BENT**



**DETAILS OF EXPANSION DEVICE (ALL INT. BENTS)**

For details of joint at Pier See Drwg. No. G422

Mark	Size	Length	Bending Diagram
S1	5#	22'-7"	
S2	5#	21'-7"	
S3	5#	22'-1"	
S4	5#	41'-1"	
S5	5#	31'-6"	
S6	5#	71'-1"	
S7	5#	61'-9"	
S8	5#	41'-5"	
V1	5#	5'-2"	
V2	5#	3'-4"	
V3	5#	6'-4"	
H1	5#	41'-5"	



**GENERAL NOTES:**

All concrete to be Class 'S'. All exposed corners to have 1/2" chamfer unless otherwise noted.  
Shop list and bending diagrams of reinforcing steel to be submitted and approved before fabrication is begun.  
Roadway drains and oak header bolts are to be paid for at the unit price bid for reinforcing steel.  
All timber and piling to be Southern Yellow Pine or Pacific Coast Douglas Fir.  
The preservative used for the treatment of timber and piling shall be grade 1 of Creosote Oil for Structural Timber.  
All timber and piling to be treated with twelve (12) pound treatment of Creosote Oil by the empty cell process.  
Malleable or Cast Iron washers to be used under all heads and nuts of bolts when in contact with wood.  
All bolts and hardware in contact with wood to be painted with red lead prior to construction and all exposed portions of bolts and hardware to be painted with a black asphaltic paint after construction is completed.  
3/8" rivets, 1/2" open holes. Use 1/4" bolts for structural steel field connections.  
Shop Paint: All Structural Steel shall be given one coat of Red Lead and Raw Linseed Oil before shipment.  
Field Paint: 1st. Coal, White lead tinted with Lampblack. 2nd. Coal, Aluminum Paint.

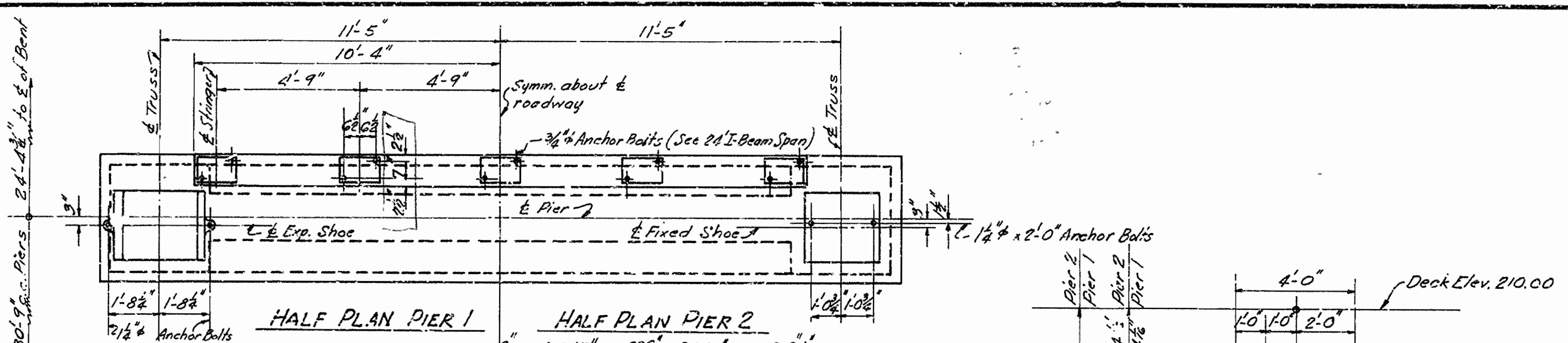
This drawing shows general features of design only. Shop drawings shall be made in compliance with the specifications and be approved before fabrication is begun.  
Hardware for timber construction shall be paid for at the unit price bid for "Structural Steel in Beam Spans".  
Maximum pile design load 15 Tons.  
Piles to be driven to a minimum capacity of 16 Tons.  
In order to secure a good riding surface it will be required that the floor slab be struck off with full span length longitudinal screed. This screed shall be sufficiently stiff so as to have no appreciable vertical deflection.  
Specifications: Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction adopted March 14, 1940.

**DETAILS OF APPROACHES**  
**RIDGE OVER ST. FRANCIS BAY DITCH**  
**CHERRY VALLEY-TURRELL ROAD**

ROUTE 42 SEC. 3  
**ARKANSAS STATE HIGHWAY COMMISSION**  
LITTLE ROCK, ARK.  
Drawn By: E.A.W. Date: 4-3-43  
Traced By: E.A.W. Date: 4-5-43  
Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
**BRIDGE NO. 2011 DRAWING NO. G420**

*E.A. W.*  
PRINCIPAL HIGHWAY ENGINEER - BRIDGES

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.			8	23
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REINFORCING STEEL (1 PIER)

No.	Mark	Size	Length	A	B	Bending Diagram
60	F1	3/4" #	(10'-0")			
24	F3	1" #	7'-0"			
2	PAT	1/2" #	17'-0"	4'-5"	3'-8 1/2"	
2	PAS	1/2" #	16'-9"	4'-4"	3'-2"	
2	PAR	1/2" #	16'-6"	4'-3"	3'-7 1/2"	
2	PAS	1/2" #	16'-3"	4'-2"	3'-7"	
2	PAP	1/2" #	16'-0"	4'-1"	3'-6 1/2"	
2	PAC	1/2" #	15'-9"	4'-0"	3'-6"	
2	PAN	1/2" #	15'-6"	3'-11"	3'-5 1/2"	
2	PAM	1/2" #	15'-3"	3'-10"	3'-5"	
2	PAL	1/2" #	15'-0"	3'-9"	3'-4 1/2"	
2	PAK	1/2" #	14'-9"	3'-8"	3'-4"	
2	PAJ	1/2" #	14'-6"	3'-7"	3'-3 1/2"	
2	PAI	1/2" #	14'-3"	3'-6"	3'-3"	
2	PAH	1/2" #	14'-0"	3'-5"	3'-2 1/2"	
2	PAG	1/2" #	13'-9"	3'-4"	3'-2"	
2	PAF	1/2" #	13'-6"	3'-3"	3'-1 1/2"	
2	PAE	1/2" #	13'-3"	3'-2"	3'-1"	
2	PAD	1/2" #	13'-0"	3'-1"	3'-0 1/2"	
2	PAC	1/2" #	12'-9"	3'-0"	3'-0"	
2	PAB	1/2" #	12'-6"	2'-11"	2'-11 1/2"	
2	PAJ	1/2" #	12'-3"	2'-10"	2'-11"	
33	P6	1/2" #	12'-5"	3'-8"	2'-2"	
Pier Only	23	P7	1/2" #	11'-6"	5'-5"	
Pier Only	23	P7A	1/2" #	10'-8"	5'-0"	
18	F2	3/4" #	16'-0"			
30	F4	1/2" #	3'-4"			
24	P1	1" #	26'-3"			
30	P2	1/2" #	25'-9"			
36	P3	1/2" #	23'-0"			
6	P5	3/4" #	25'-6"			
2	P8	3/4" #	20'-5"			
4	P9	1/2" #	20'-3"			

Dimensions to reinforcing steel are to centers of bars.

General Notes:  
 All concrete to be Class A. All exposed corners to have 3/4" chamfer. All concrete except seal concrete to be poured in the dry. Construction joints where permitted shall be provided with keys 3" deep. Joints shall be horizontal. Keys in walls to be continuous and occupy the middle third of the width. Keys in columns to occupy the middle third of each dimension.  
 Reinforcing steel to be deformed bars of structural or intermediate grade. Shop lists and bending diagrams shall be submitted by contractor and approved secured before fabrication is begun.  
 Specifications: Arkansas State Highway Commission Standard Specifications for Road and Bridge Construction adopted March 1, 1940.

This drawing not to scale!

Revisions:  
 6-6-44  
 8-25-44 Anchor bolt spacing.

DETAILS OF PIERS  
 BRIDGE OVER ST. FRANCIS BAY DITCH  
 CHERRY VALLEY-TURRELL ROAD  
 CROSS COUNTY  
 ROUTE 42 SEC. 3

ARKANSAS STATE HIGHWAY COMMISSION  
 LITTLE ROCK, ARK.  
 Drawn By: L.P.C. Date: 4-2-45  
 Traced By: L.P.C. Date: 4-15-45  
 Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
 BRIDGE NO. 2011 DRAWING NO. 6421

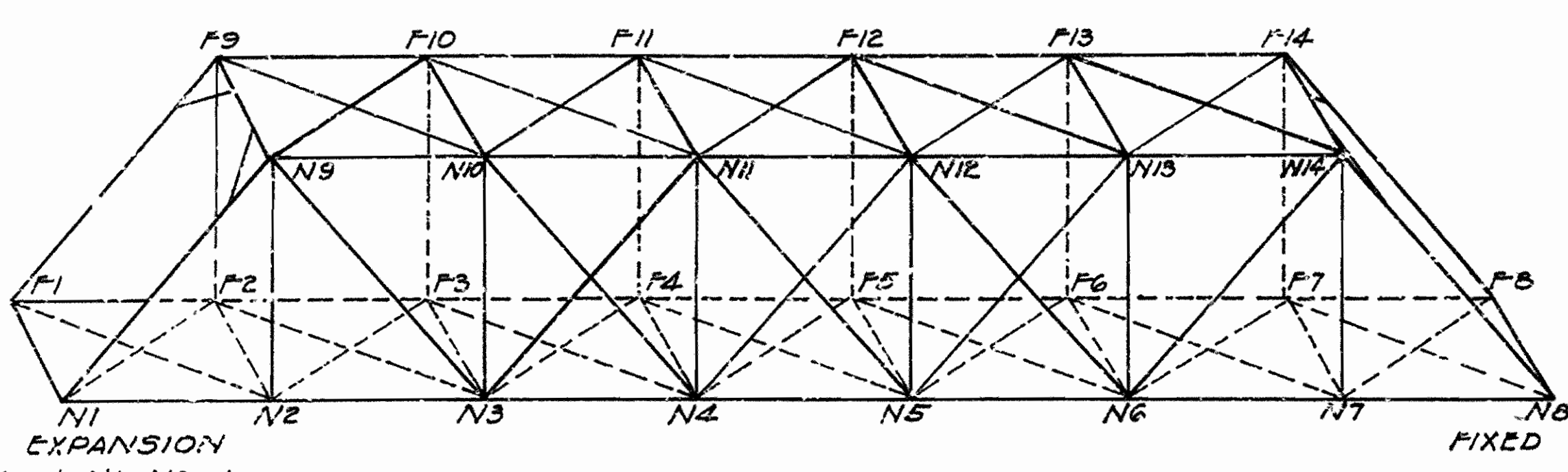
*L.P.C.*  
 PRINCIPAL HIGHWAY ENGINEER (REGISTERED)

Un-ated timber piles. Drive to minimum capacity of 16 tons per pile.

Thickness of seal based on maximum head of water 22'-0"

Elev. 168.32 Pier No. 1  
 Elev. 168.73 Pier No. 2

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	ARK.			10	23
STATE JOB NO. 11201					



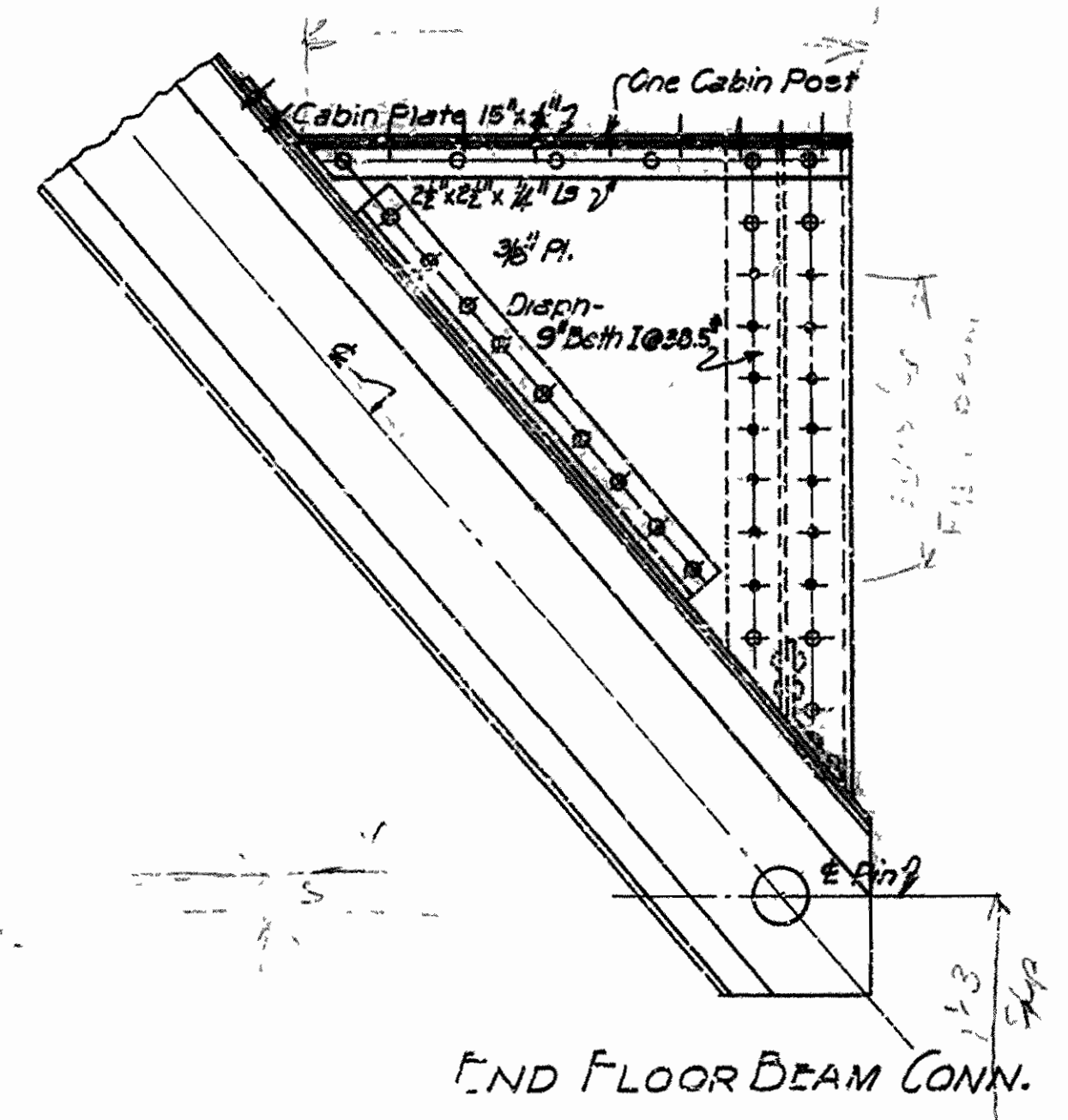
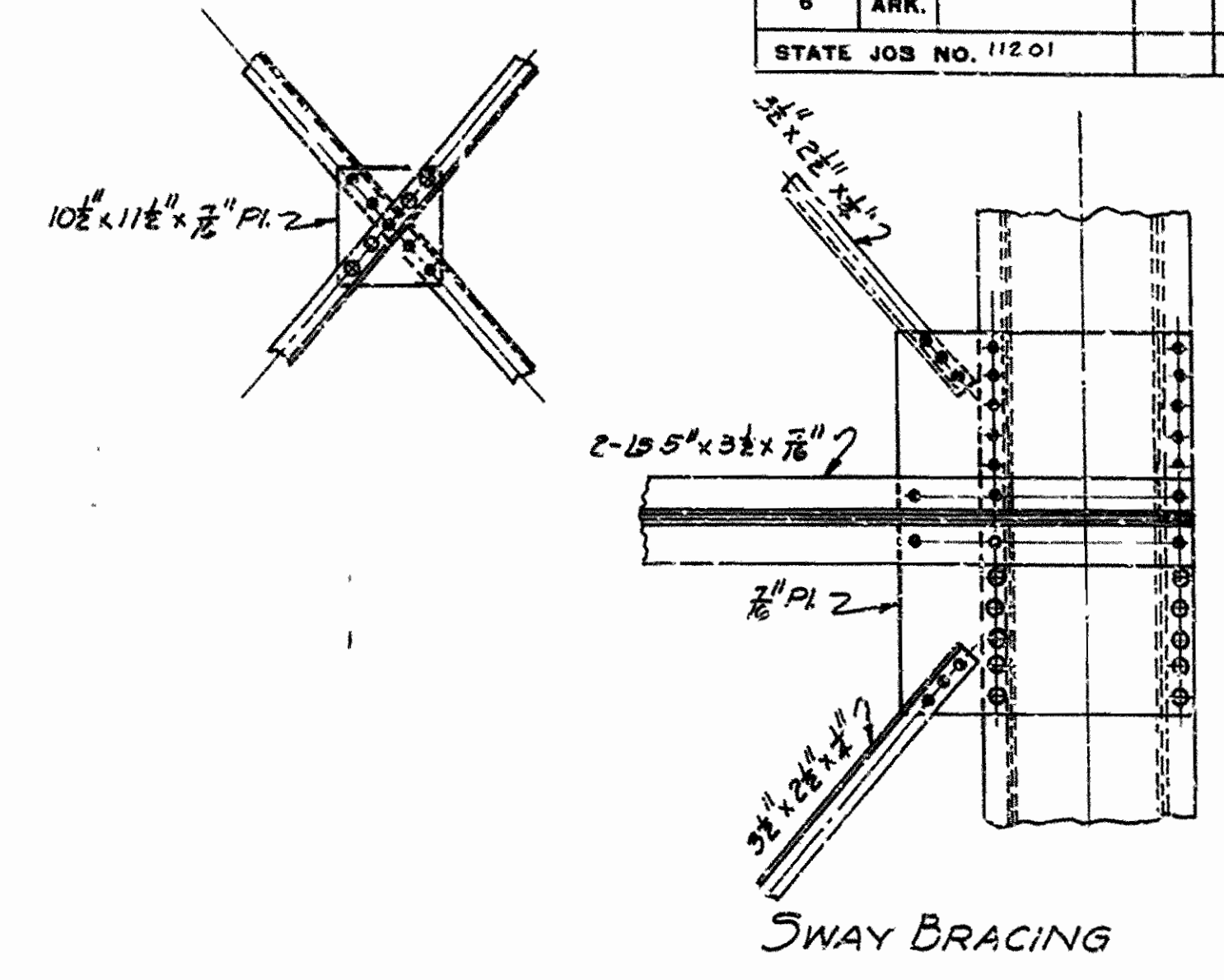
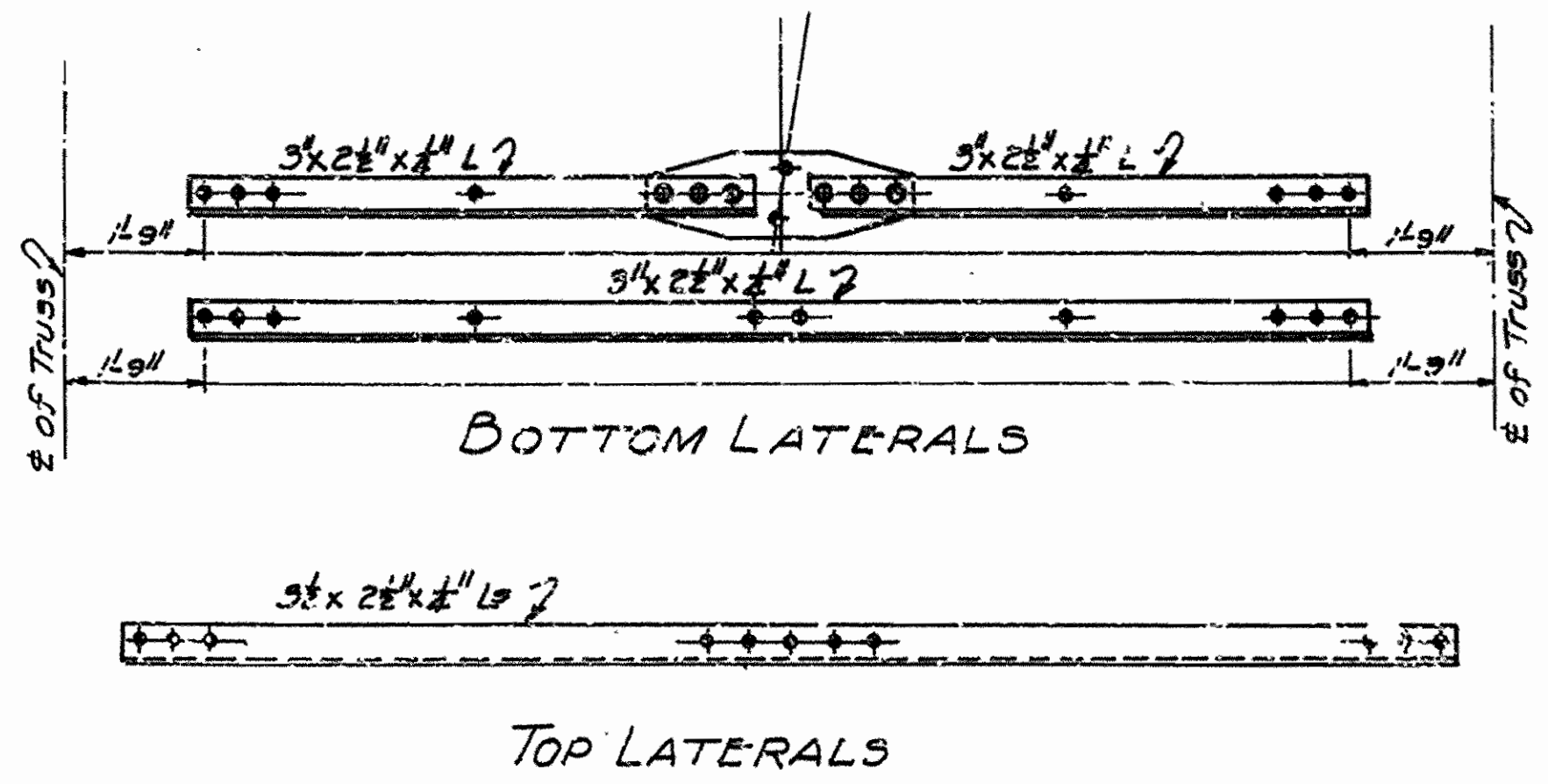
Near Truss Marked N1, N2 etc.  
Far Truss Marked F1, F2 etc.

D1	D2	D3	D4	D5	D6	D7	D8
C1	C2	C3	C4	C5	C6	C7	C8
B1	B2	B3	B4	B5	B6	B7	B8
A1	A2	A3	A4	A5	A6	A7	A8
EXPANSION			FLOOR SYSTEM		FIXED		

MATCH MARKING DIAGRAM

INVENTORY OF MATCH MARKED MEMBERS

MEMBER	MARK	SECTION	MEMBER	MARK	SECTION	MEMBER	MARK	SECTION
Bot. Chord	N1-N2	2-5" x 1 1/2" Bars	Top Laterals (Cont'd)	F13-N14	1-2 1/2" x 3 1/2" L	Verticals (Cont'd)	F3-F10	2-3" B 6 1/2" bbb 3/4" P.
"	N2-N3	2-5" x 1 1/2" "	"	N3-F14	"	"	F4-F11	"
"	N3-N4	2-5" x 1 1/2"; 2-5" x 1" "	Floor Beams	N1-F1	3/8" x 3 1/2" P.; 4 1/2" x 3 1/2" "	"	F5-F12	"
"	N4-N5	2-5" x 1 1/2" "	"	N2-F2	"	"	F6-F13	"
"	N5-N6	2-5" x 1 1/2"; 2-5" x 1" "	"	N3-F3	"	"	F7-F14	"
"	N6-N7	2-5" x 1 1/2" "	"	N4-F4	"	Diagonals	N9-N3	2-6" x 1 1/2" Bars
"	N7-N8	2-5" x 1 1/2" "	"	N5-F5	"	"	N10-N4	2-5" x 1 1/2" "
"	F1-F2	2-5" x 1 1/2" "	"	N6-F6	"	"	N3-N11	1-1 1/2" "
"	F2-F3	2-5" x 1 1/2" "	"	N7-F7	"	"	N11-N5	2-2 1/2" "
"	F3-F4	2-5" x 1 1/2"; 2-5" x 1" "	"	N8-F8	"	"	NA-N12	2-2 1/2" "
"	F4-F5	4-5" x 1 1/2" "	Top Struts	N9-F9	2-8" x 2 1/2" B 7/8" b.t.b.	"	N12-N6	1-1 1/2" "
"	F5-F6	2-5" x 1 1/2"; 2-5" x 1" "	"	N10-F10	2-5" x 3 1/2" L5	"	N5-N13	2-5" x 1 1/2" "
"	F6-F7	2-5" x 1 1/2" "	"	N11-F11	"	"	N6-N14	2-6" x 1 1/2" "
"	F7-F8	2-5" x 1 1/2" "	"	N12-F12	"	"	F9-F3	2-6" x 1 1/2" "
Lower Laterals	F1-N1	1-2 1/2" x 3 1/2" L	"	N13-F13	"	"	F10-F4	2-5" x 1 1/2" "
"	N1-F2	"	"	N14-F14	2-8" x 2 1/2" B 7/8" b.t.b.	"	F3-F11	1-1 1/2" "
"	F2-N3	"	Stringers	A1-A2	8 1/2" x 20 1/2" I	"	F11-F5	2-2 1/2" "
"	N2-F3	"	"	A2-A3	8 1/2" x 20 1/2" I	"	F4-F12	2-2 1/2" "
"	F3-N4	"	"	A3-A4	"	"	F12-F6	1-1 1/2" "
"	N3-F4	"	"	A4-A5	8 1/2" x 20 1/2" I	"	F5-F13	2-5" x 1 1/2" "
"	F4-N5	"	"	A5-A6	8 1/2" x 20 1/2" I	"	F6-F14	2-6" x 1 1/2" "
"	NA-F5	"	"	A6-A7	8 1/2" x 20 1/2" I	Hand Rail (Exp. End)	1R 17L	2-5" x 2 1/2" With Brkts.
"	F5-N6	"	"	A7-A8	8 1/2" x 20 1/2" I	"	2R 18L	"
"	N6-F6	"	"	B1-B2	8 1/2" x 22 1/2" "	"	3R 19L	"
"	F6-N7	"	"	B2-B3	"	"	4R 20L	"
"	N6-F7	"	"	B3-B4	"	"	5R 21L	"
"	F7-N8	"	"	B4-B5	"	"	6R 22L	"
"	N7-F8	"	"	B5-B6	"	"	7R 23L	"
Batter Post	N1-N9	2-5" x 1 1/2" P.; 2-5" x 1" "	"	B6-B7	"	"	8R 24L	"
Top Chord	N9-N10	"	"	B7-B8	8 1/2" x 22 1/2" "	"	9R 25L	"
"	N10-N11	"	"	C1-C2	"	"	10R 26L	"
"	N11-N12	"	"	C2-C3	8 1/2" x 22 1/2" "	"	11R 27L	"
"	N12-N13	"	"	C3-C4	"	"	12R 28L	"
"	N13-N14	"	"	C4-C5	8 1/2" x 22 1/2" "	"	13R 29L	"
Batter Post	N14-N8	"	"	C5-C6	"	"	14R 30L	"
Batter Post	F1-F9	"	"	C6-C7	"	"	15R 31L	"
Top Chord	F9-F10	"	"	C7-C8	8 1/2" x 22 1/2" "	Hand Rail (Fixed End)	16R 32L	"
"	F10-F11	"	"	D1-D2	8 1/2" x 20 1/2" "	"		"
"	F11-F12	"	"	D2-D3	8 1/2" x 20 1/2" "	"		"
"	F12-F13	"	"	D3-D4	8 1/2" x 20 1/2" "	"		"
"	F13-F14	"	"	D4-D5	8 1/2" x 20 1/2" "	"		"
Batter Post	F14-F8	"	"	D5-D6	8 1/2" x 20 1/2" "	"		"
Top Laterals	F8-N10	1-2 1/2" x 3 1/2" L	"	D6-D7	8 1/2" x 20 1/2" "	"		"
"	N9-F10	"	"	D7-D8	8 1/2" x 20 1/2" "	"		"
"	F10-N11	"	Verticals	N8-N9	2-9" B 6 1/2" bbb 3/4" P.	"		"
"	N10-F11	"	"	N3-N10	"	"		"
"	F11-N12	"	"	N4-N11	"	"		"
"	N11-F12	"	"	N5-N12	"	"		"
"	F12-N13	"	"	N7-N14	"	Vertical	N6-N13	2-5" B 6 1/2" bbb 3/4" P.
"	N12-F13	"	"	F2-F9	"	"		"



204,500 # in Truss

DETAILS OF 180' TRUSS SPAN  
ST FRANCIS BAY BRIDGE  
OVER CROSS COUNTY DRAINAGE DITCH  
ROUTE 42 SEC. 3.

ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.  
Scale: 1/4" = 1'-0"  
DRAWING NO. 6423

M. J. Sawyer  
PRINCIPAL HIGHWAY ENGINEER (BRIDGE)

Drawn By: L.A.M. Date: 4-2-43  
Traced By: L.A.M. Date: 4-12-43  
Checked By: \_\_\_\_\_ Date: \_\_\_\_\_