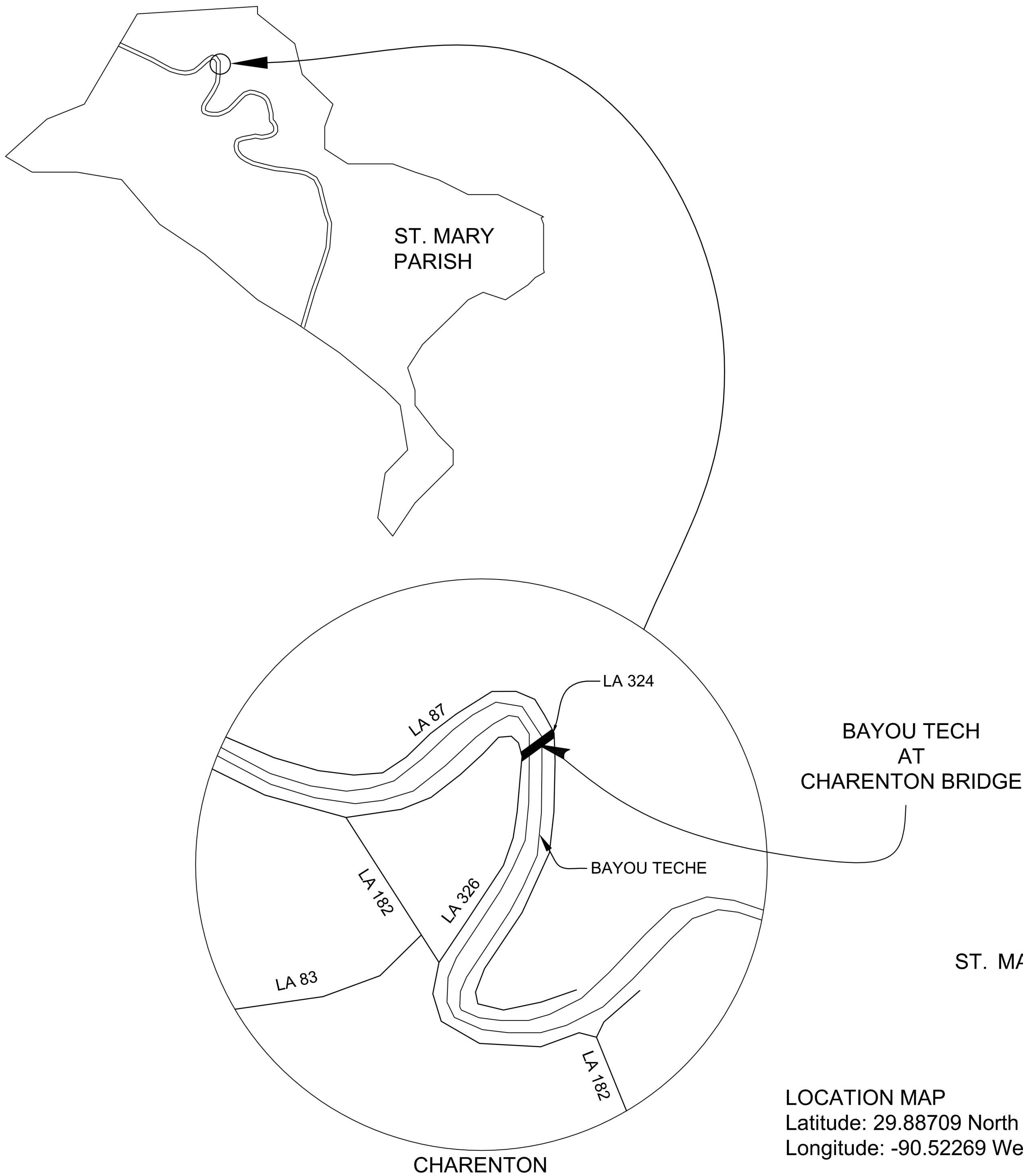
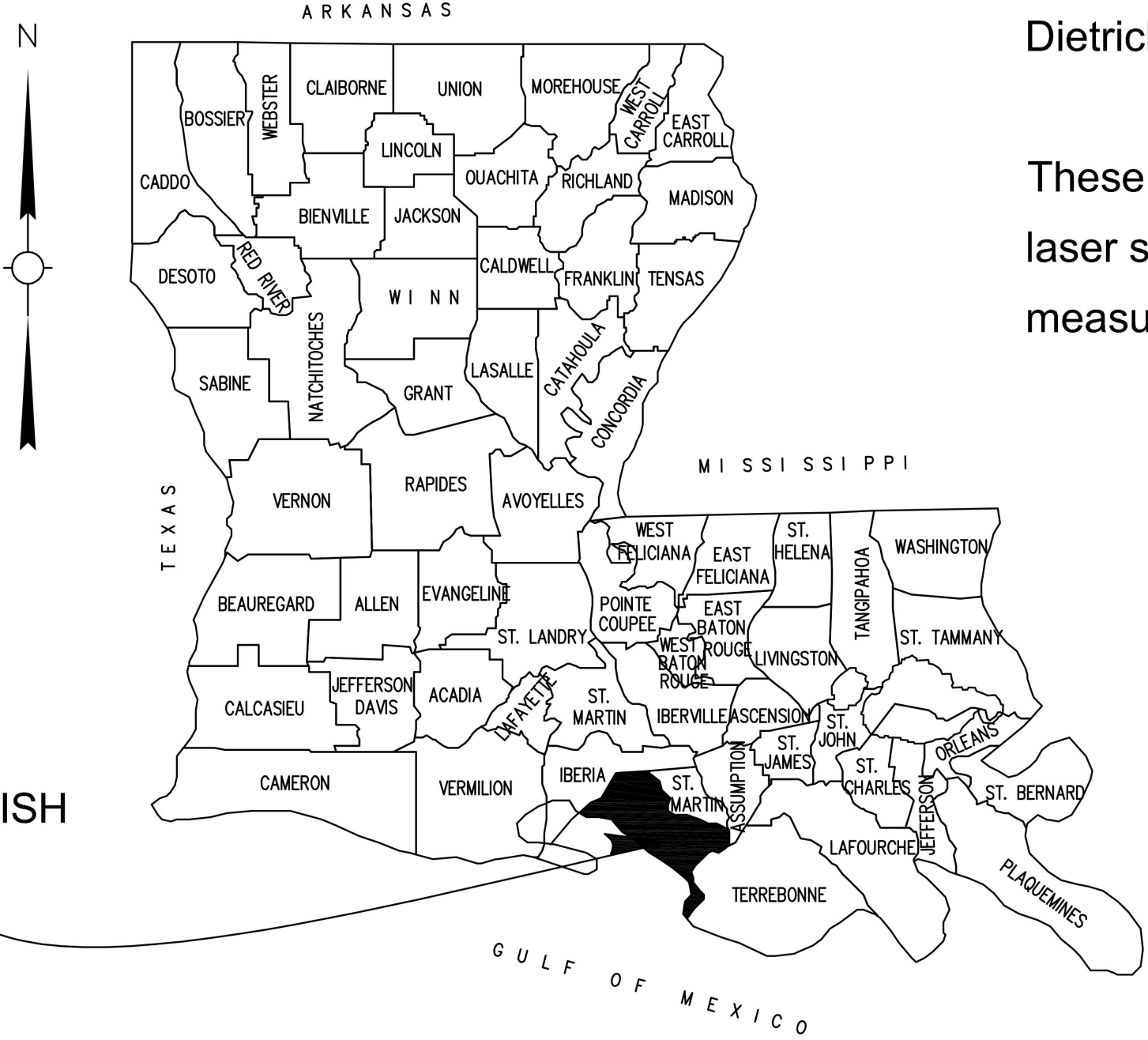


BAYOU TECHE AT CHARENTON BRIDGE



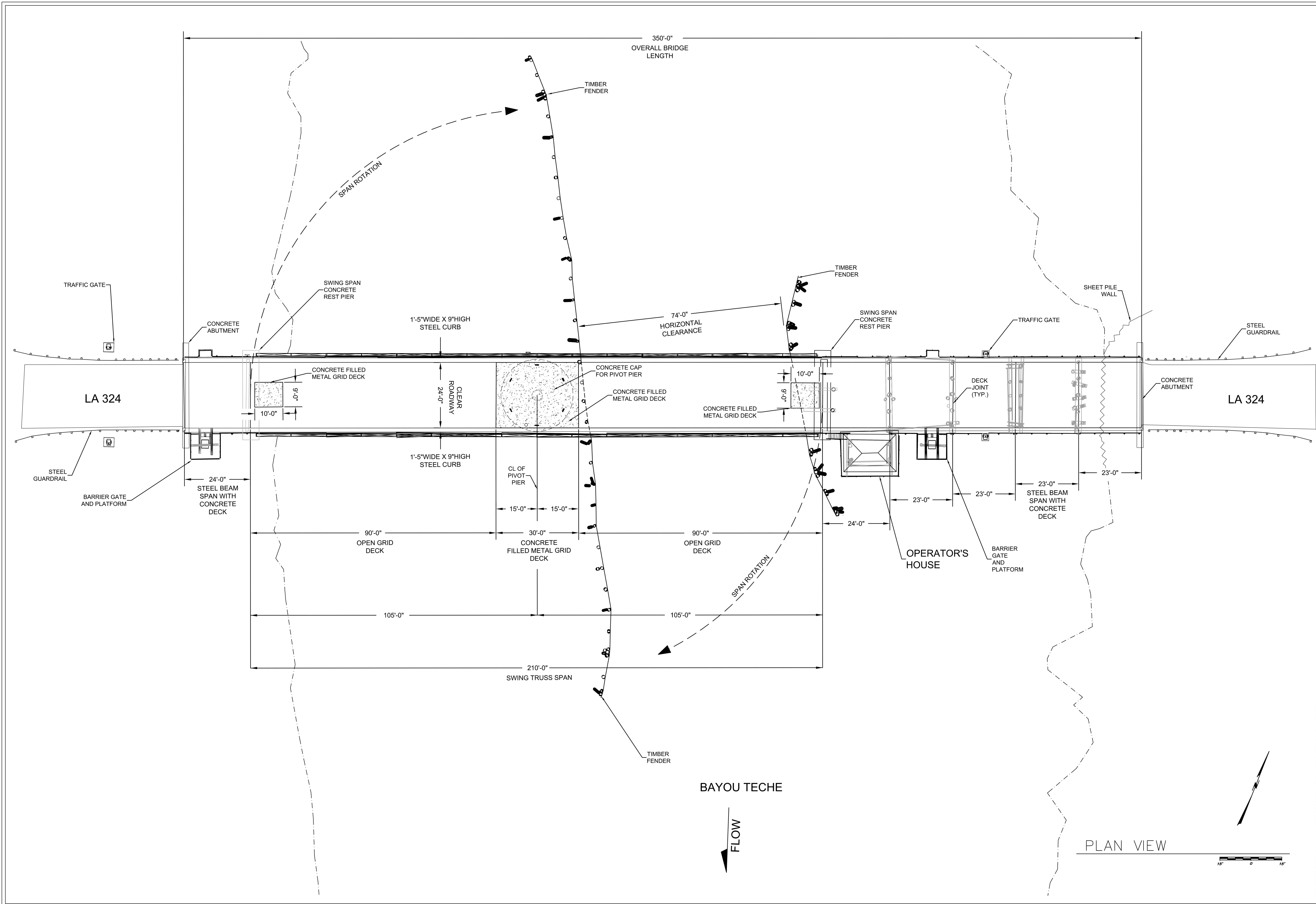
LOCATION MAP
Latitude: 29.88709 North
Longitude: -90.52269 West



The Bayou Teche at Charenton Bridge (Bridge Recall No. 009130), designed by the Louisiana Highway Commission and constructed in 1935, is a Warren pony truss swing bridge significant as an example of a movable swing bridge. Its significance is demonstrated by the presence of distinctive engineering and design features, which is characterized by the polygonal Warren truss configuration, center-bearing turning mechanism, pivot pier, and operator's house. This bridge was determined eligible for listing in the National Register of Historic Places in 2013 under Criterion C: Design/Engineering at the state level of significance.

This documentation was prepared to fulfill Stipulation IX.5 of the Programmatic Agreement Among the Federal Highway Administration, the Louisiana Department of Transportation and Development, the Advisory Council on Historic Preservation, and the Louisiana State Historic Preservation Officer Regarding Management of Historic Bridges in Louisiana, dated August 18, 2015 and executed September 21, 2015. The Louisiana Department of Transportation and Development (LADOTD) retained Mead & Hunt to prepare this document. It was prepared by Emily Pettis and Katherine Haun Schuring, Senior Cultural Resource Specialists, of Mead & Hunt, Stephen V. Estopinal, P.E., P.L.S. and Trenton Iglehart, Geodetic Analyst, of SJB Group, LLC. Dietrich Floeter completed the photography.

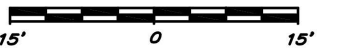
These measured drawings were prepared based on a site visit to complete laser scanning of the bridge, with selective hand measuring in the field to verify measurements.



BAYOU TECHE

FLOW

PLAN VIEW



DELINEATED BY: T. IGLEHART, SUB GROUP, LLC., 2017

LOUISIANA HISTORIC
BRIDGE INVENTORY
NATIONAL PARK SERVICE
UNITED STATES DEPARTMENT OF THE INTERIOR

CHARENTON

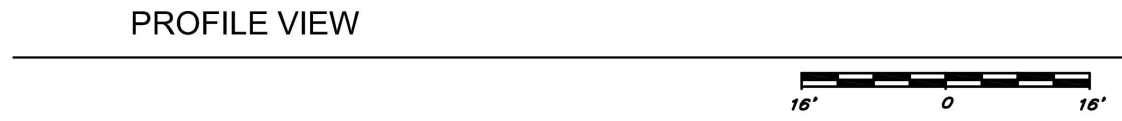
BAYOU TECHE AT CHARENTON BRIDGE
CARRIES LOUISIANA HIGHWAY 324 (LA 324) OVER BAYOU TECHE
ST. MARY PARISH

LOUISIANA

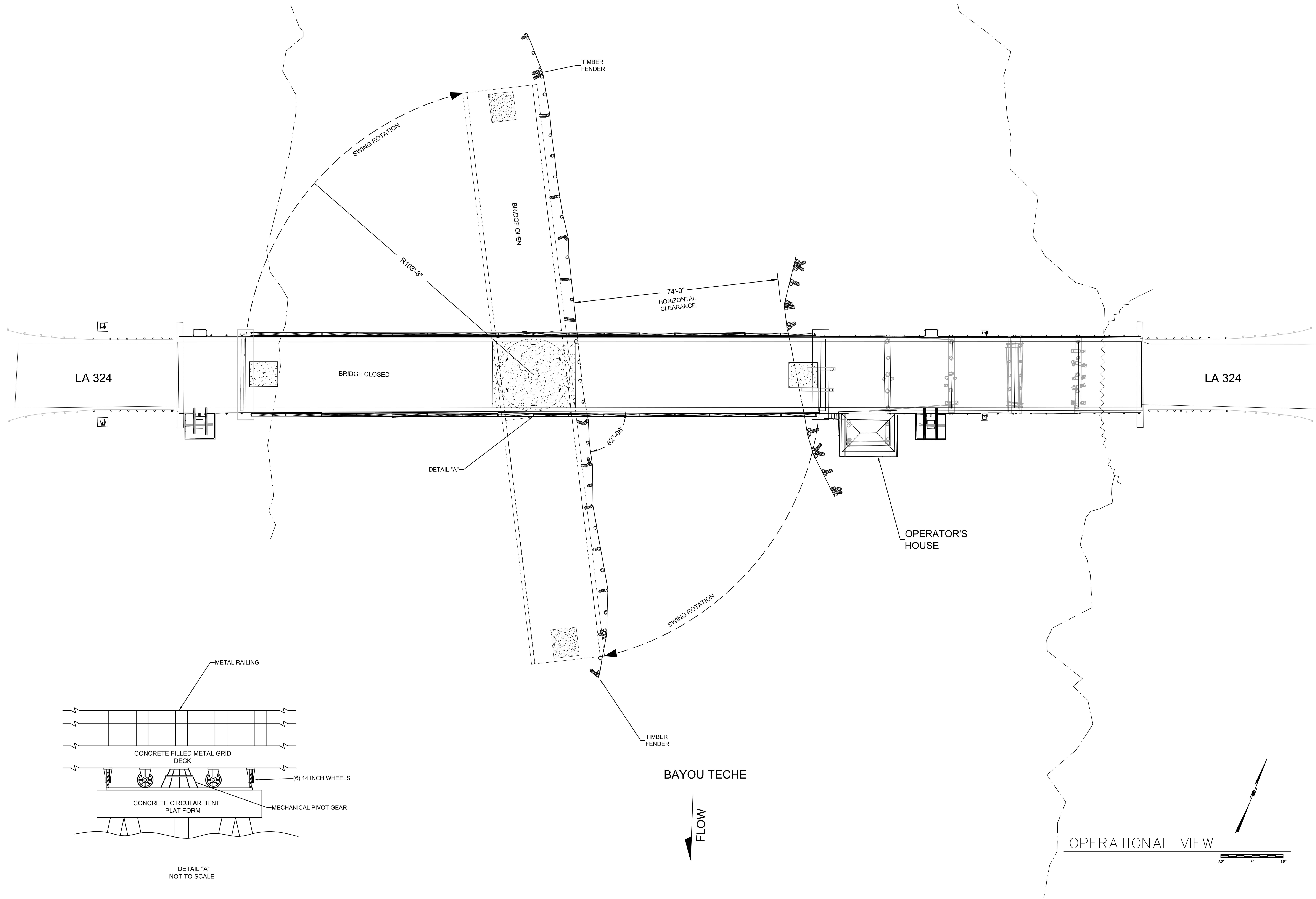
SHEET
2 OF 4

HISTORIC AMERICAN
ENGINEERING RECORD
INDEX NUMBER
LA-37

IF REPRODUCED PLEASE CREDIT THE HISTORIC AMERICAN ENGINEERING RECORD, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF DRAWING



IF REPRODUCED IN CASE CREDIT THE HISTORIC AMERICAN ENGINEERING RECORD NATIONAL BABY SERVICE NAME OF ORIGINATOR DATE OF DRAWING



DELINEATED BY: T. IGLEHART, SUB GROUP, LLC., 2017

LOUISIANA HISTORIC
BRIDGE INVENTORY
NATIONAL PARK SERVICE
UNITED STATES DEPARTMENT OF THE INTERIOR

CHARENTON

BAYOU TECHE AT CHARENTON BRIDGE
CARRIES LOUISIANA HIGHWAY 324 (LA 324) OVER BAYOU TECHE
ST. MARY PARISH

LOUISIANA

HISTORIC AMERICAN
ENGINEERING RECORD
INDEX NUMBER

LA-37

SHEET
4 OF 4

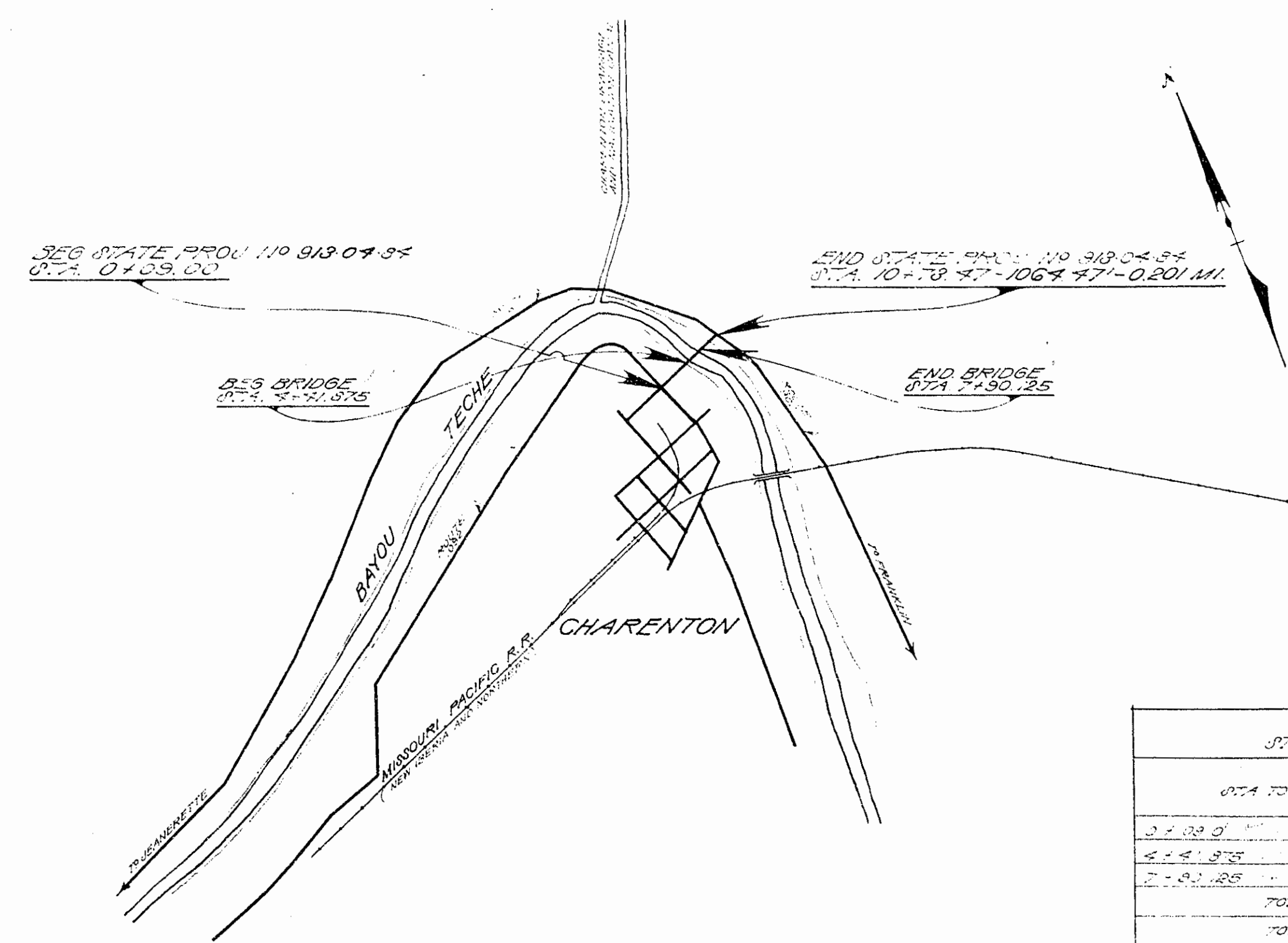
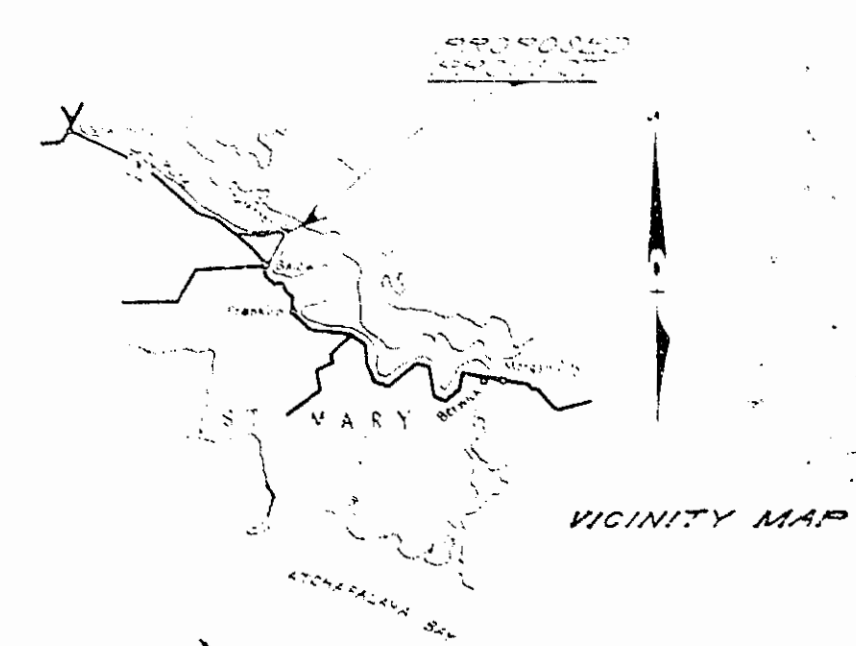
IF REPRODUCED PLEASE CREDIT THE HISTORIC AMERICAN ENGINEERING RECORD NATIONAL PARK SERVICE NAME OF DELINEATOR DATE OF DRAWING

106
INDEX TO SHEETS

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS
PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

CHARENTON BRIDGE
OVER BAYOU TECHE
CONNECTING
STATE ROUTE 1092 TO STATE ROUTE 902
AT CHARENTON
ST. MARY PARISH
STATE PROJECT NO 913-04-84
STATE ROUTE 129

STATE PROJECT NO. 913-04-84
PARISH ST. MARY
YEAR 1984
SHEET NO. 106
TOTAL SHEETS 107



LENGTH OF STATE PROJECT 913-04-84		
STA TO STA	ROADWAY	BRIDGE
	FEET	FEET
0+00.00 - 4+41.87	4+41.87	432.35
4+41.87 - 7+90.25	3+48.38	348.38
7+90.25 - 10+78.47	2+88.22	
TOTAL FEET	7+178.47	348.38
TOTAL MILES	0.133	0.003
GROUND LENGTH STATE PROJECT 913-04-84 1064.47 FEET = 0.201 MILE		

LAYOUT MAP
SCALE: 1 INCH = 1320 FEET

CONVENTIONAL SIGNS

Base Line	-----
Grade Line	-----
Ground Line	-----
Right of Way	-----
Traveled Roadway	-----
Fences	-----
Levees	-----
Canals	-----
Railroads	-----
Property Lines	-----
Section & Grant Lines	-----
Township & Range Lines	-----
Ward & Road Dist. Boundary Lines	-----
Parish & State Boundary Lines	-----
Telephone & Telegraph Lines	-----
Boundary Lines (General)	-----
Mile Post-at end of mile	-----

FIELD BOOK 19-125

SCHEDULE OF REVISIONS

DATE	BY	DATE	BY

APPROVED *[Signature]*
State Highway Engineer 6-25-84

APPROVED _____

RECOMMENDED FOR APPROVAL _____

District Engineer, 4th Federal Aid District

RECOMMENDED FOR APPROVAL _____

Chief Engineer Bureau of Public Roads

APPROVED _____

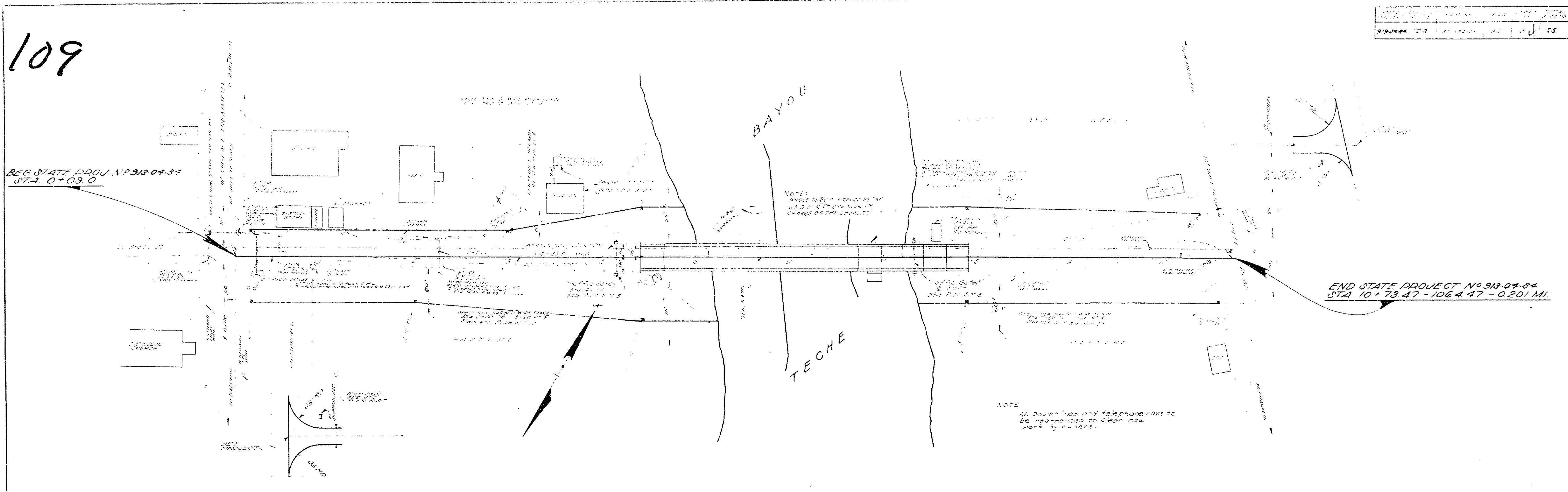
Director Bureau of Public Roads



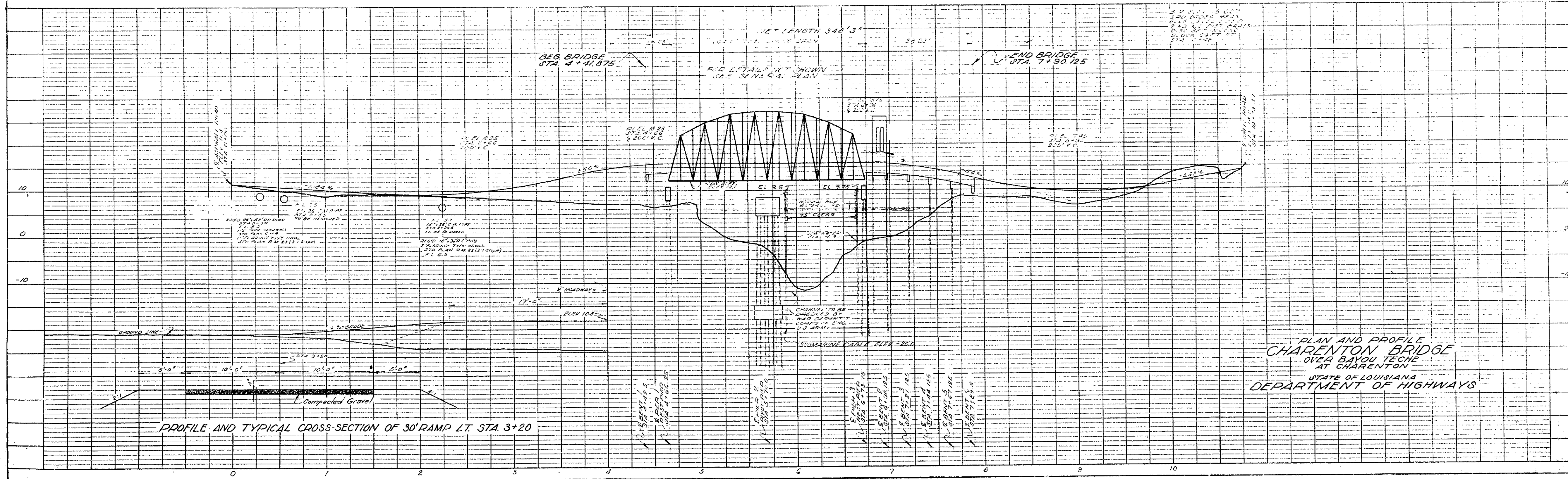
109

DATE	8/2/44	BY	J. L. B.	NO.	109
CHECKED		BY		NO.	
APPROVED		BY		NO.	

PLAN	NOTES	NO.	109
NOTES	NO.	109	



PROF.	NOTES	NO.	109
NOTES	NO.	109	



PLAN AND PROFILE
CHARENTON BRIDGE
OVER BAYOU TEICHE
AT CHARENTON
STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

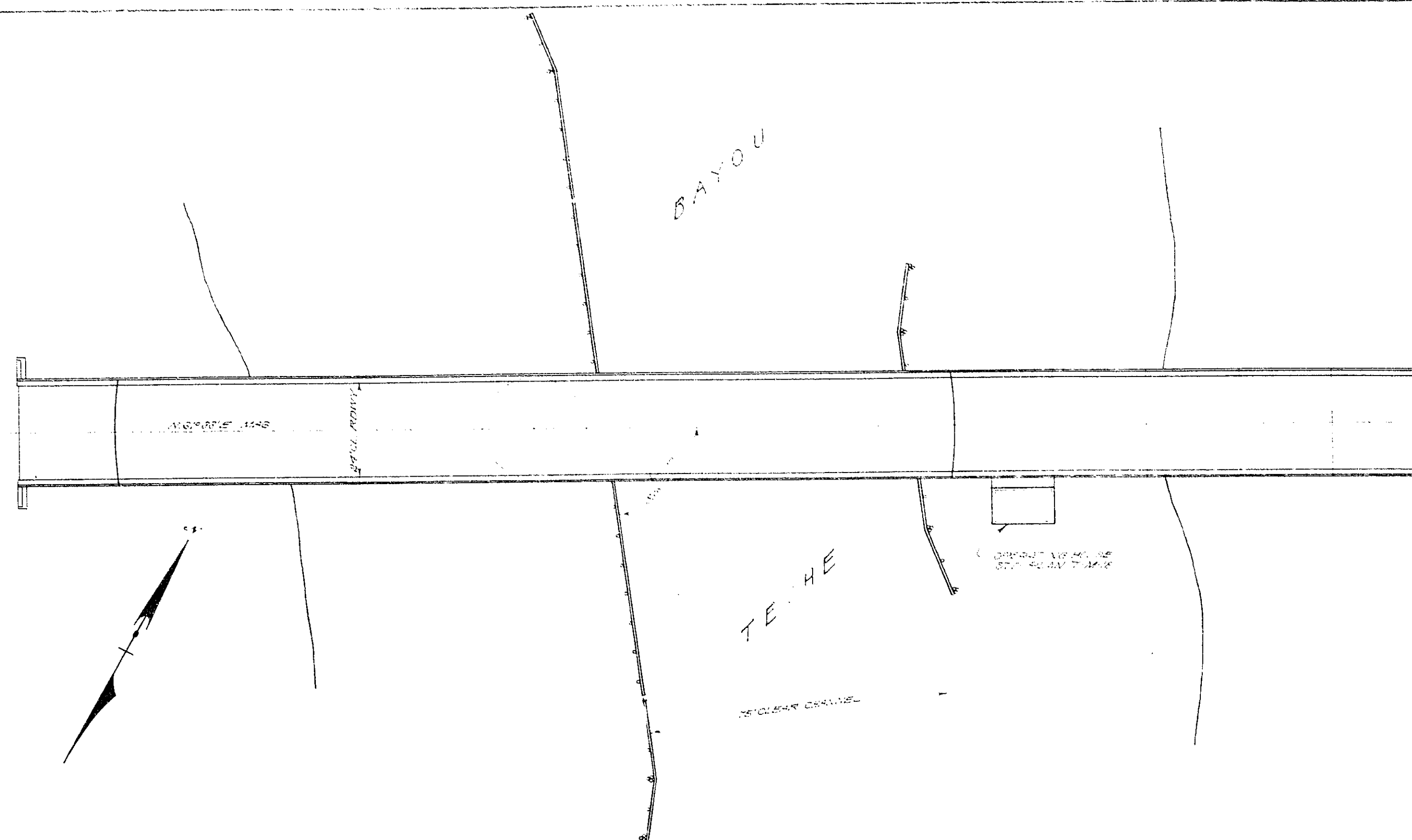
PLATE I-PLAN-PROFILE B. P. R. STANDARD
EUGENE DIETZEN CO., CHICAGO-NEW YORK



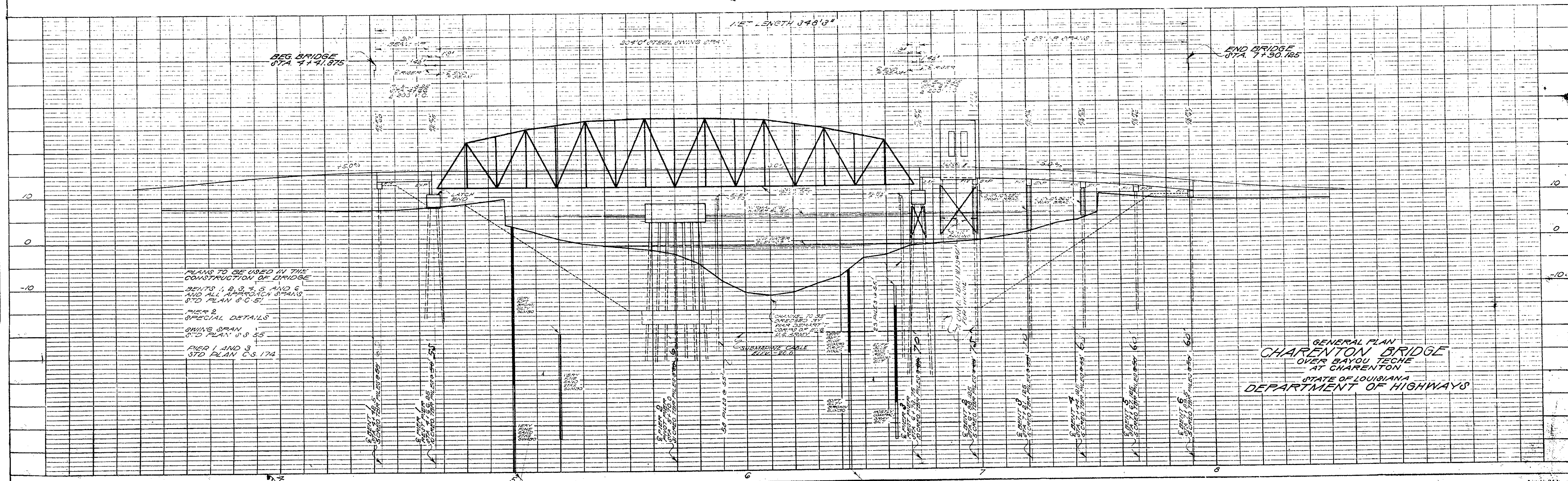
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NO.	DATE	BY	CHKD.	APP'D.	DATE
110	12-9	4			5

PLAN	NO. 110
NOTES	
CHECKED BY	
APPROVED BY	

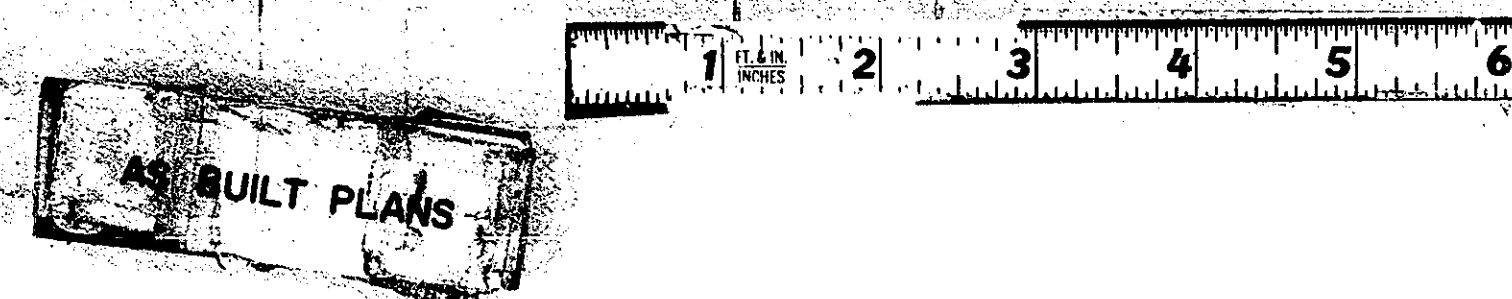


DATE	BY
12-9	4
NOTES	
CHECKED BY	
APPROVED BY	



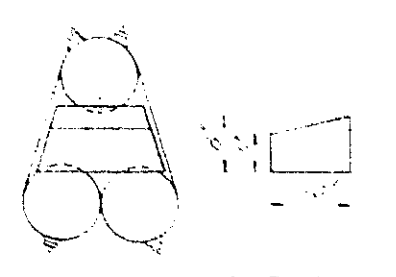
GENERAL PLAN
CHARENTON BRIDGE
OVER BAYOU TECHE
AT CHARENTON
STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

PLATE I-PLAN-PROFILE & P. R. STANDARD
BROCK DETZLER CO. CHICAGO, ILL.

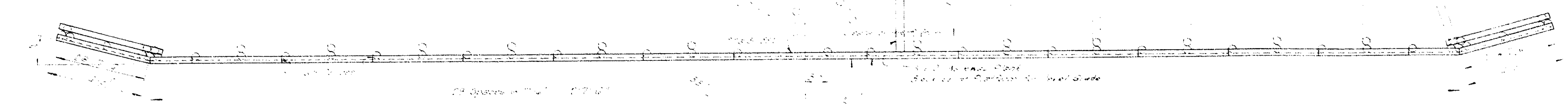


DESIGNED BY	ST. MARY	CHECKED BY	ST. MARY	IN CHARGE OF	ST. MARY
DATE	5-10-34	DATE	5-10-34	DATE	5-10-34

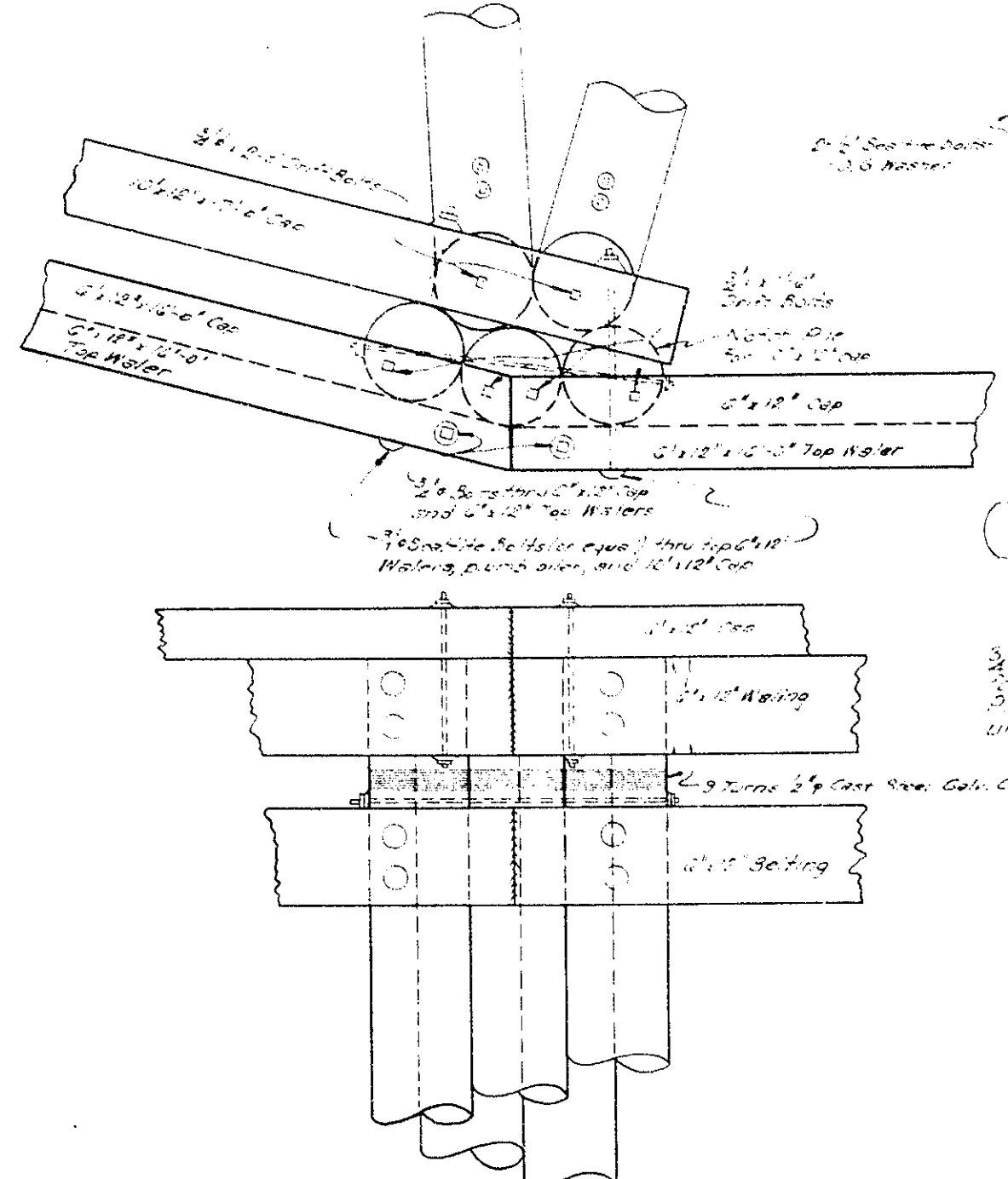
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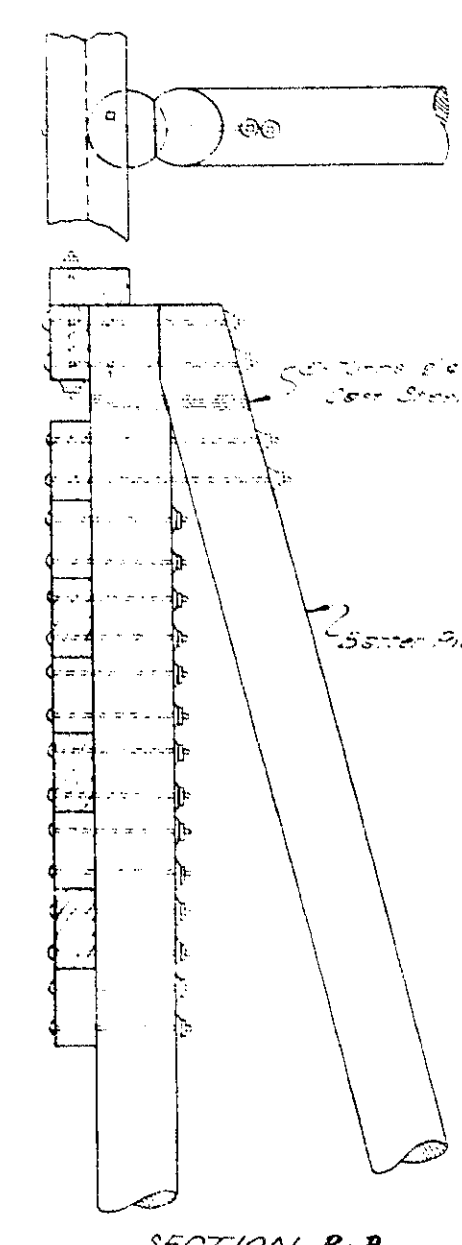
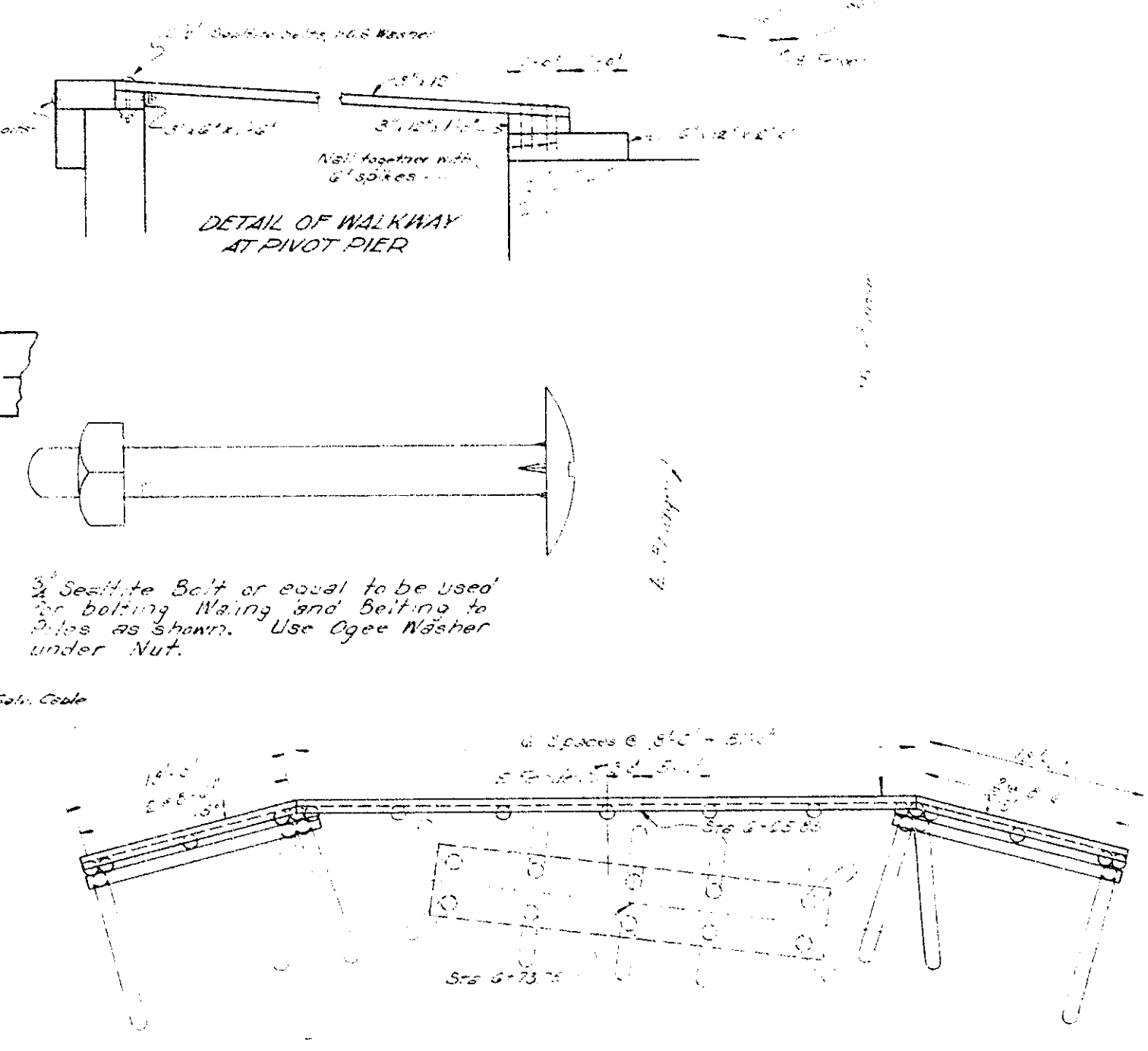
DETAIL OF FILLER BLOCKS



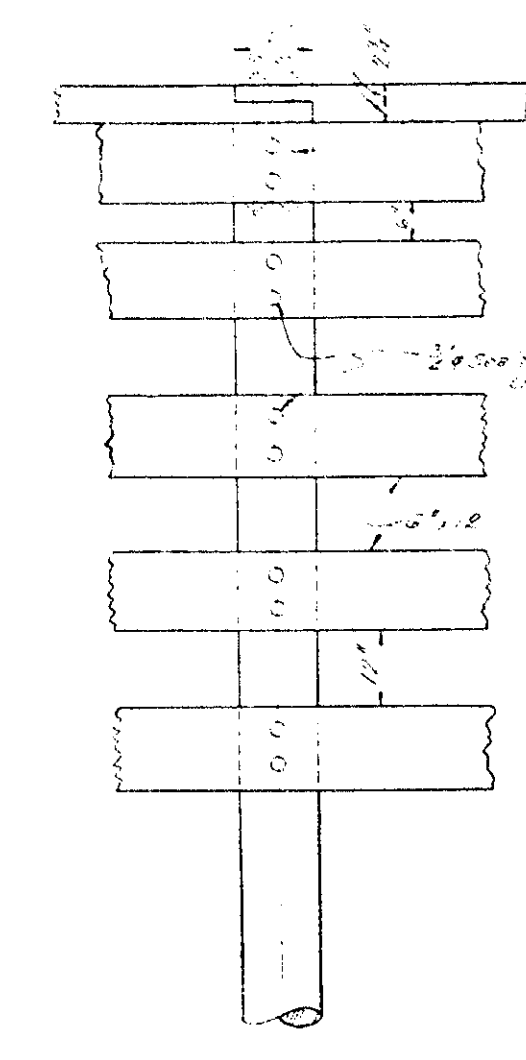
DETAIL OF WALKWAY AT PIVOT PIER



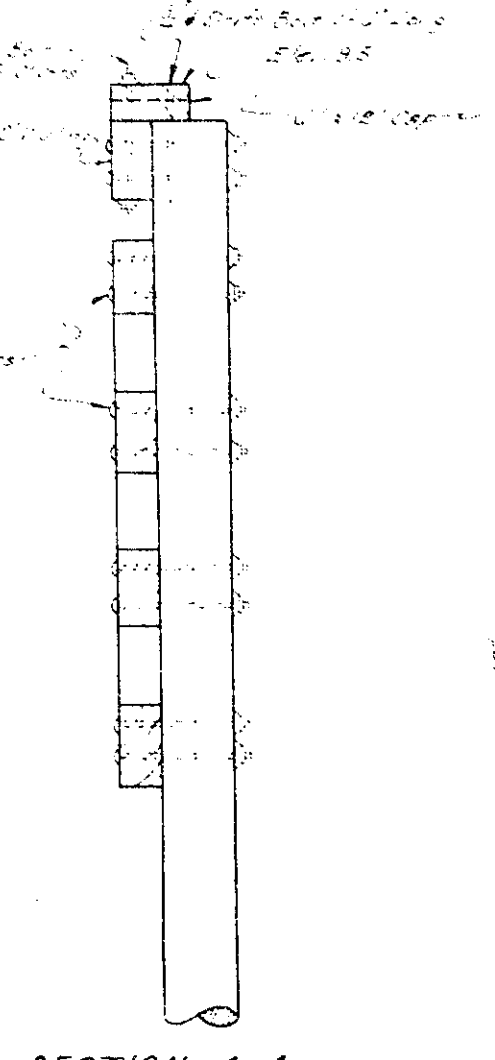
DETAIL OF PILE CLUSTER



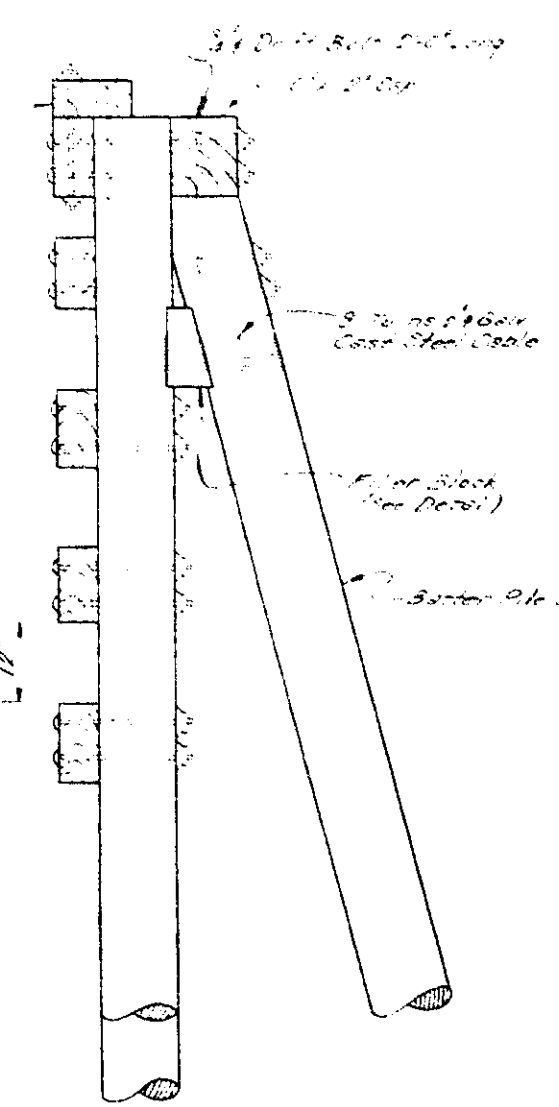
SECTION B-B



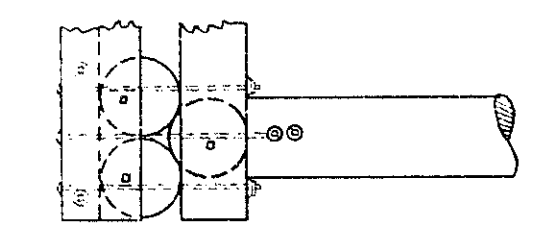
ELEVATION



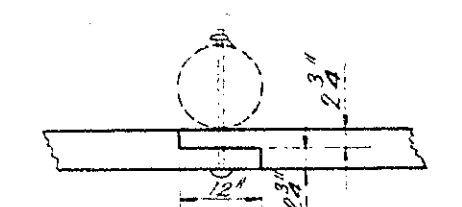
SECTION A-A



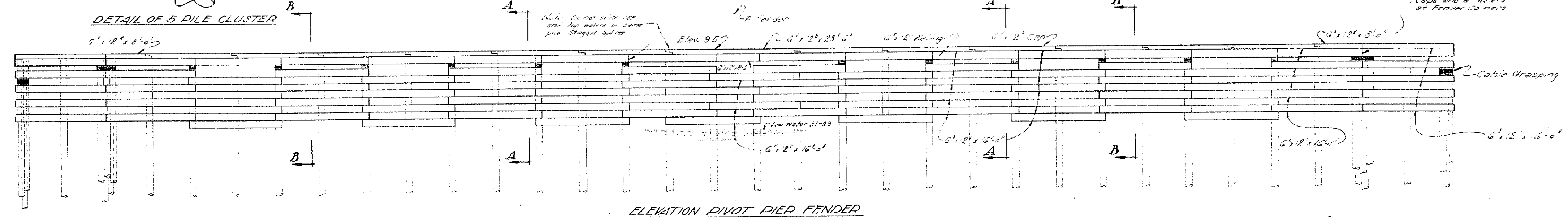
SECTION THRU WINGS



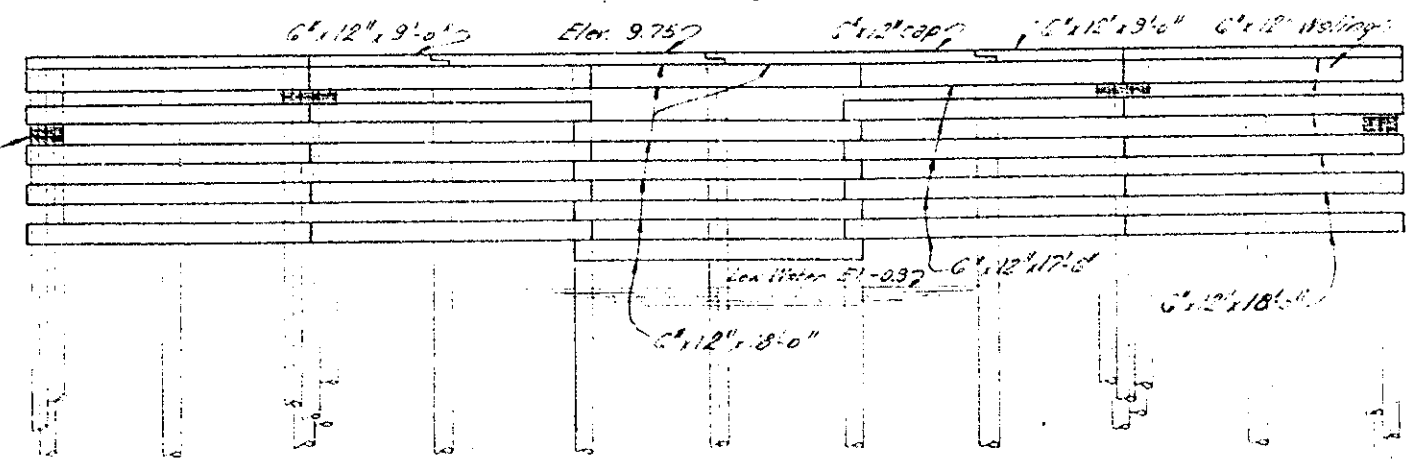
PLAN OF WING END



DETAIL OF WING SPlice



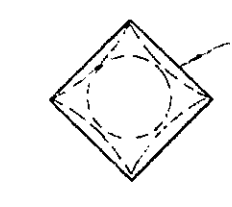
ELEVATION PIVOT PIER FENDER



ELEVATION REST PIER FENDER

Creosoted Structural Timbers S4S
= 13,698 M.F.B.M.
Creosoted Timber Piles 81 @ 55'
= 4455 Lin. Ft.

GENERAL NOTES:
Piles shown are for extending
purpose only. Use 1/2" S. washers under
bolt heads and nuts in each connection.
Piles shown are 41' long. (See Note 1)
equal to the 41' S. washers under
bolt heads. Hardware including nuts,
washers, and bolts shall be used.
Piles shall be galvanized. Galvanized
piles shall be placed over top of
piles. All lumber to be Creosoted.
Timber S4S, Eastern Highway
Comm. Specifications to govern all pile heads,
cups, trimmings and bolts. Piles to be
thoroughly separated with no creosote all.



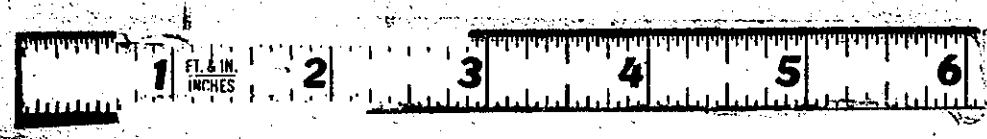
DETAIL OF SHEET METAL COVER OVER TOPS OF ALL PILES

FENDER DETAILS
BRIDGE OVER BAYOU TECHE
CHARENTON, LA.

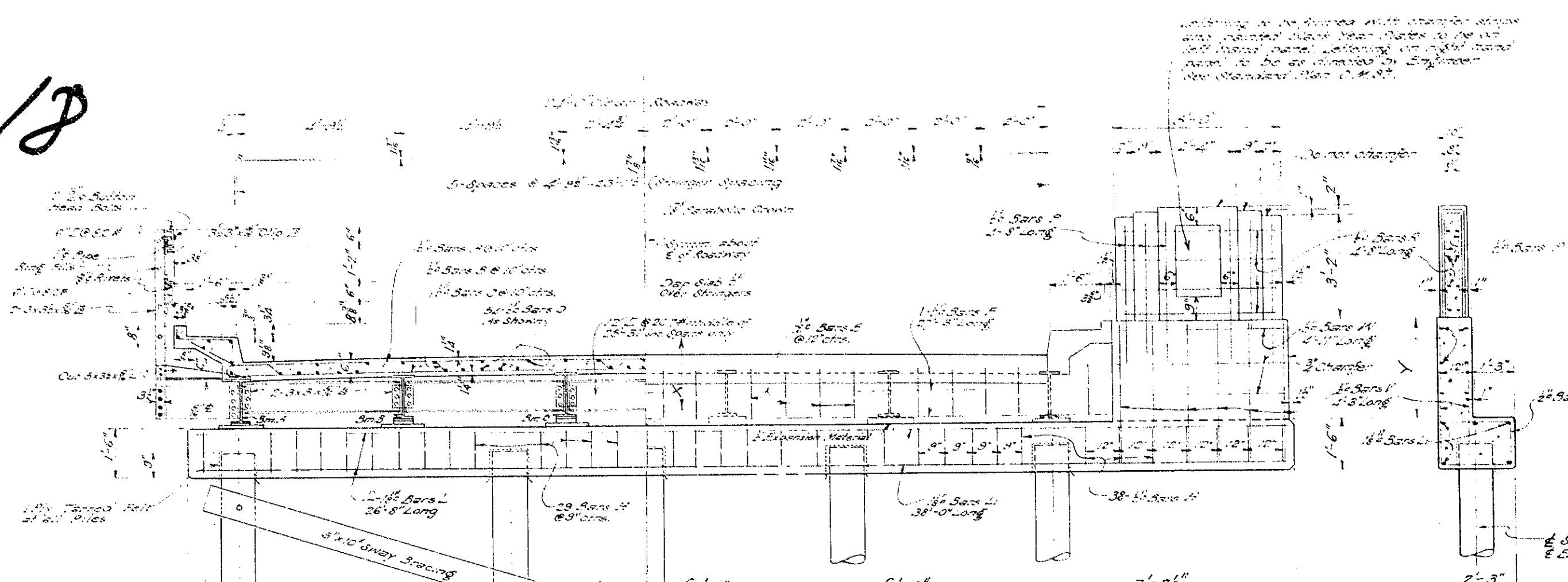
DEPARTMENT OF HIGHWAYS
BATON ROUGE, LA. MAY 1931

DESIGNED BY	ST. MARY	CHECKED BY	ST. MARY	IN CHARGE OF	ST. MARY
DATE	5-10-34	DATE	5-10-34	DATE	5-10-34

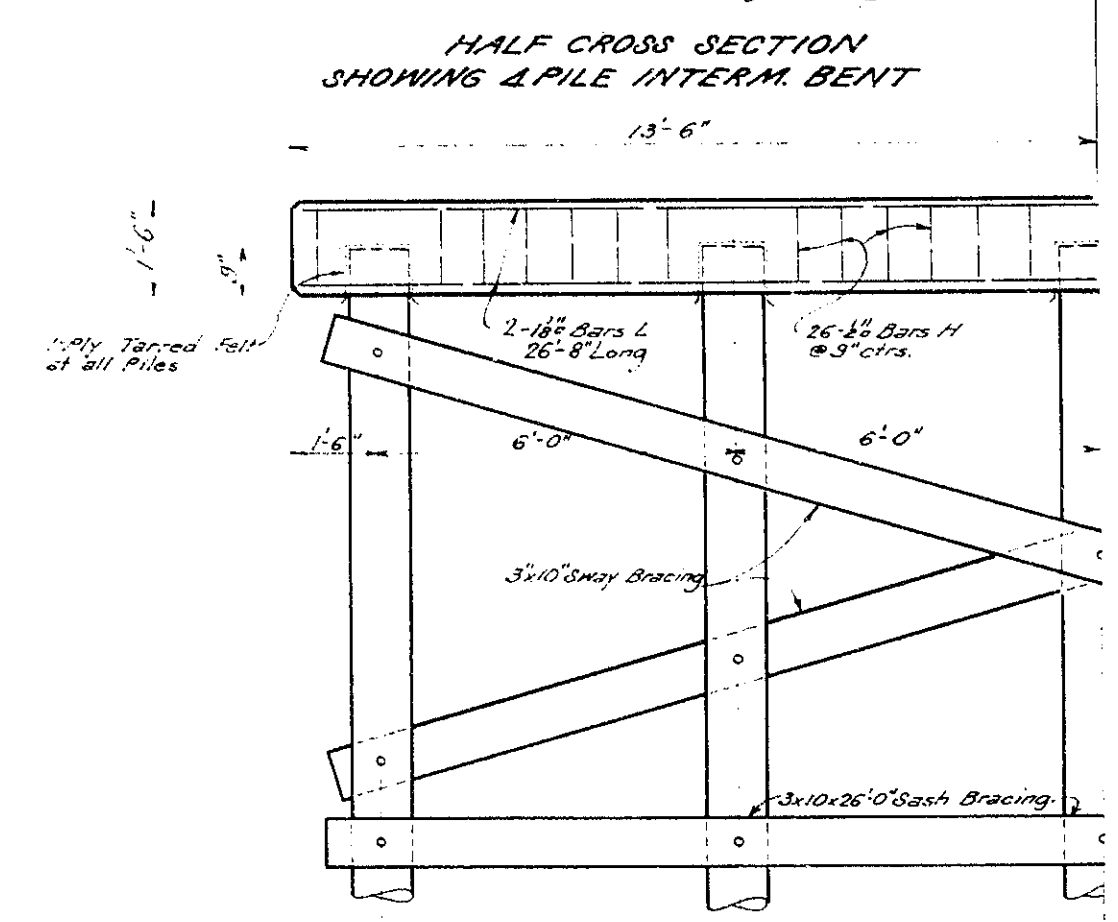
AS BUILT PLANS



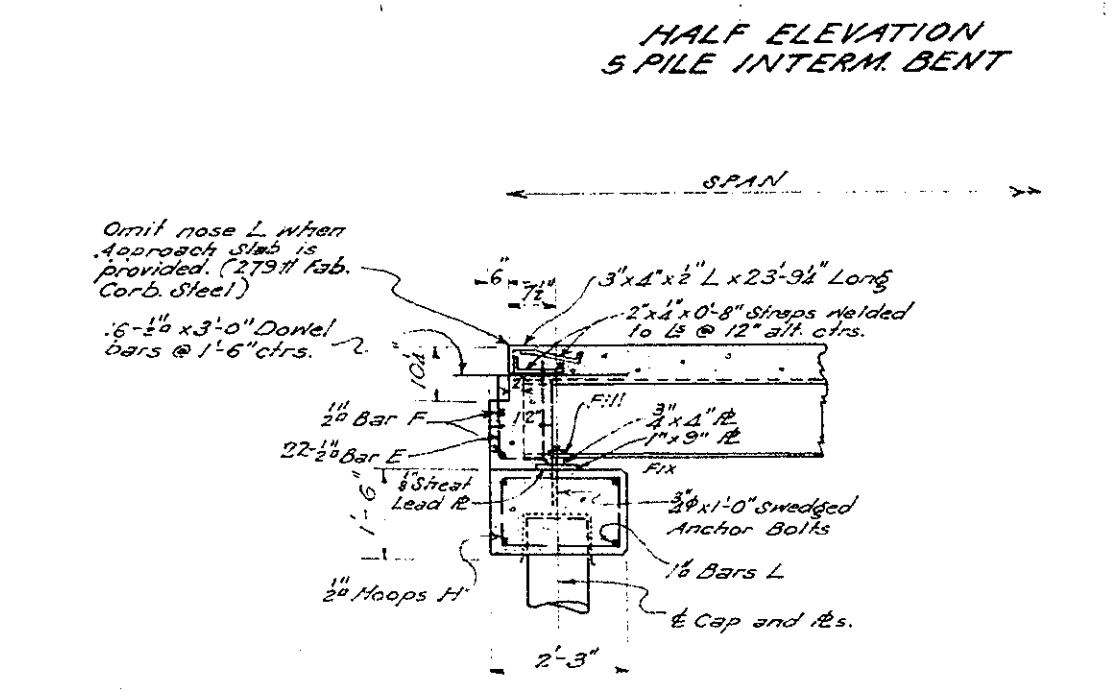
1/8



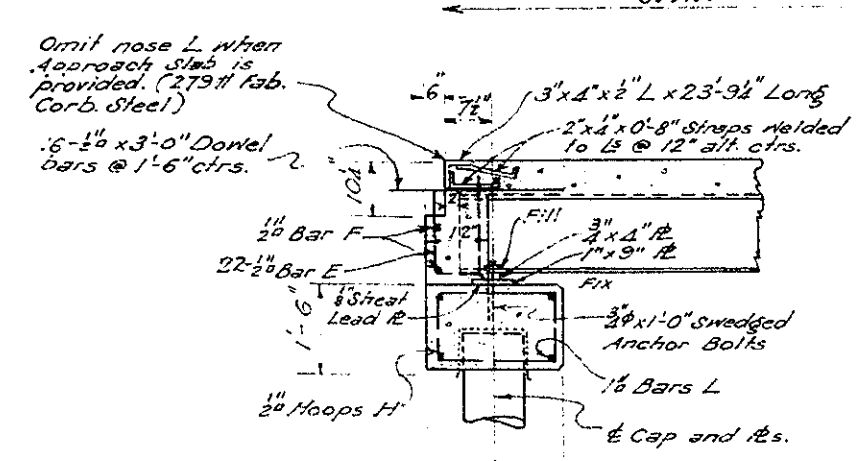
HALF ELEVATION END BENT



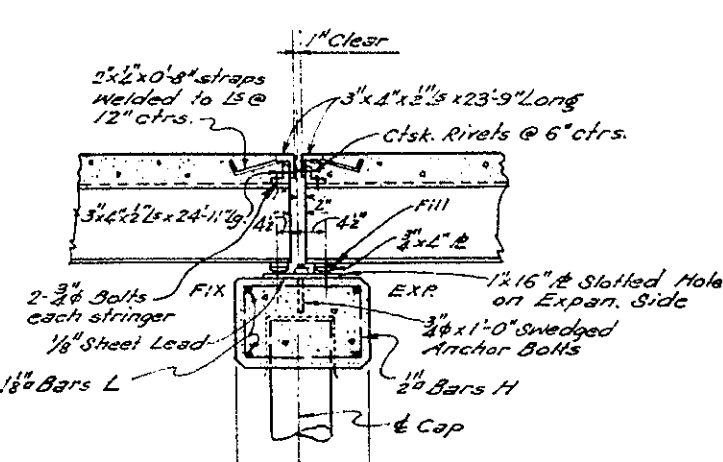
HALF CROSS SECTION SHOWING 4 PILE INTERMEDIATE BENT



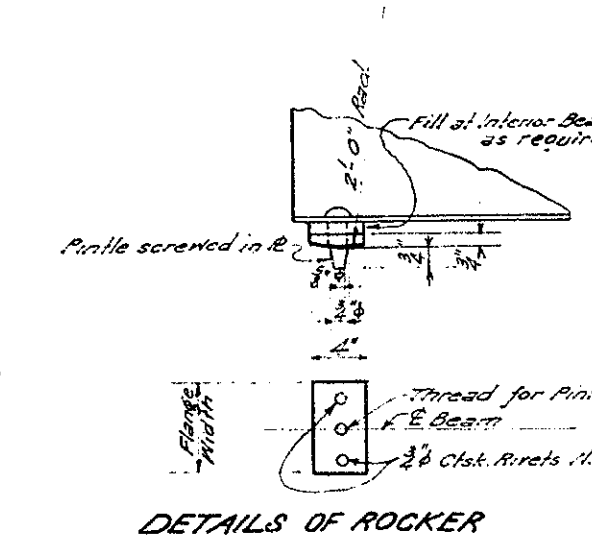
HALF ELEVATION 5 PILE INTERMEDIATE BENT



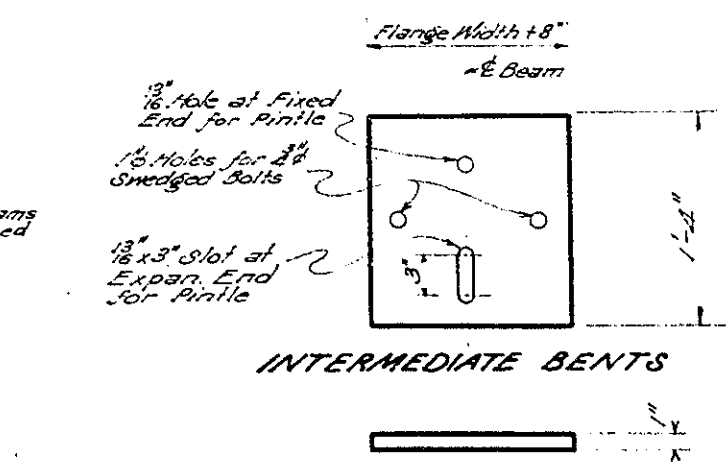
SECTION B-B END BENTS



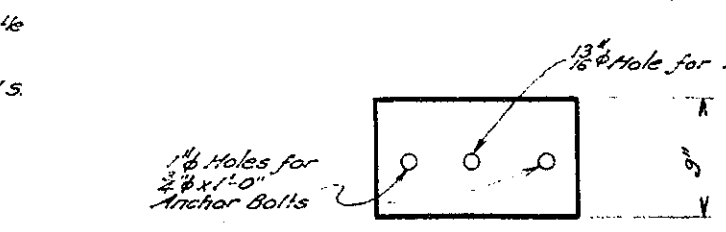
SECTION D-D INTERMEDIATE BENTS



DETAILS OF ROCKER



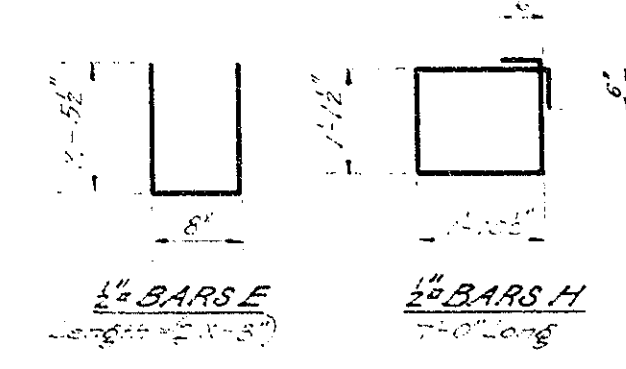
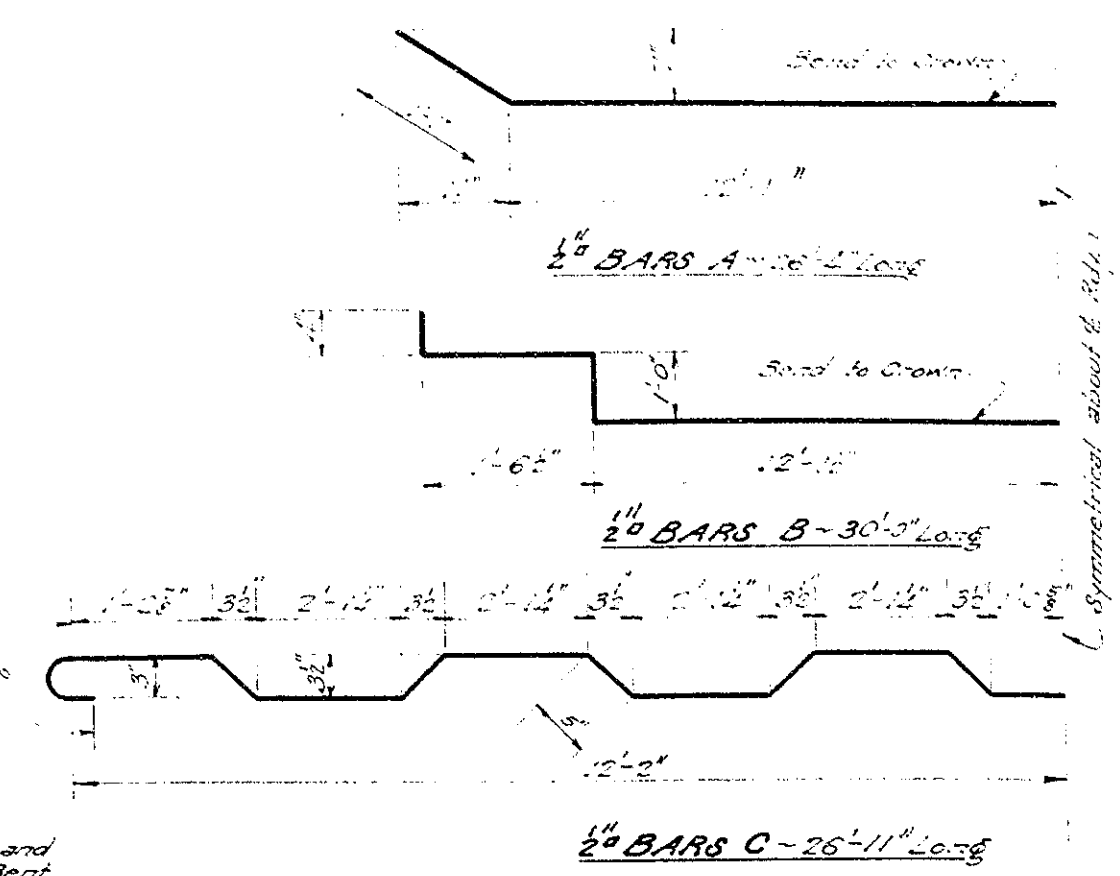
INTERMEDIATE BENTS



END BENTS



BASE PLATE DETAILS



SWAY and SASH BRACING - ONE BENT

Span	No. of Braces	Length	No. of Plates	Length	At F.B.M.
10	12	26'	2	26'	130
13	15	28'	2	28'	140
16	21	26'-26'	2	26'	330
22	29	28'-28'	2	28'	410

DIMENSIONS and QUANTITIES

SPAN Feet	Horizontal Size of Spanners	Dimensions		END SPAN		INT. SPAN		END BENT		INT. BENT		Number of Piles		Load per Mile			
		Beam	Beam	X	Y	Class		Class		Class		Class		END	INT.	INT.	END
						Carbon Steel	Aluminum Steel	Carbon Steel	Aluminum Steel	Carbon Steel	Aluminum Steel	Carbon Steel	Aluminum Steel				
10	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
13	3	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
16	3	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
22	3	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
28	4	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
33	4	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
37	4	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
43	4	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
53	5	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16

GENERAL NOTES
 Specifications: Louisiana Highway Commission 1940
 Type and M.F.S. Steel and Calculated weight
 of material. All sway and sash bracing to be
 rough creosoted. Timber supports corners of spans
 to have a 3" chamfer. Corners noted. Dimensions
 of bents to have a 1/2" chamfer unless noted.
 Dimensions to reinforcing steel are to bar centers.
 Details to be 3/8" unless noted.
 All timber bolts to be 3/8" with two age washers.
 Handrail not designed for specified forces.
 No allowance for future wearing surface.
 Cost of tarred felt to be included in price bid
 for other items.

STANDARD PLAN
 19'-31' I-Bm SPANS-22' ROADWAY
 2'-1'-6" WALKWAYS WITH STEEL RAILS
 TIMBER PILES CONCRETE DECK and CAP

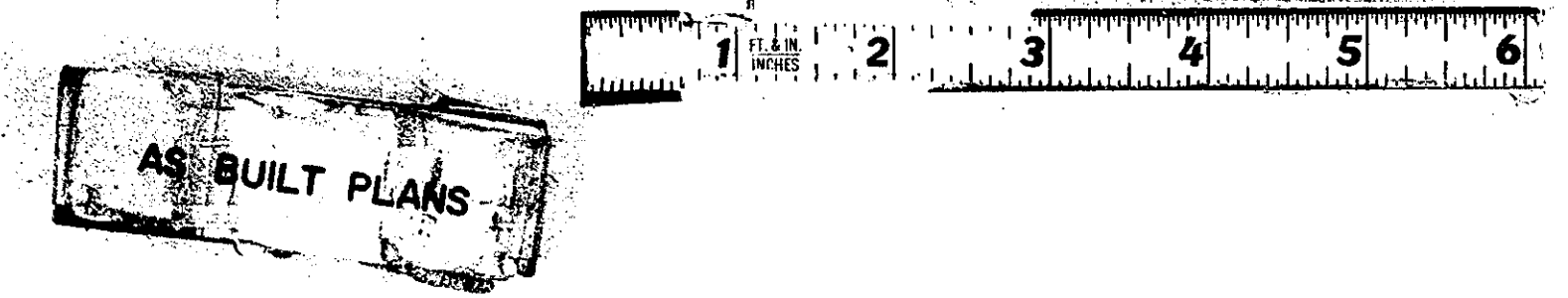
STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS
 BATON ROUGE, LA. APRIL 1941

DESIGNED *W. J. ...* CHECKED *W. J. ...* IN CHARGE OF *W. J. ...*

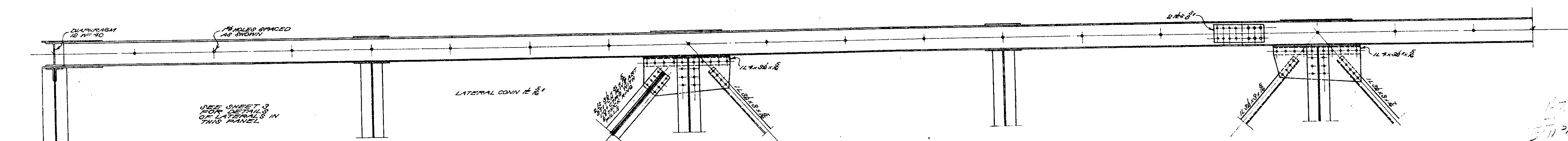
DATE *...* DESCRIPTION *...* BY *...*

REVISIONS

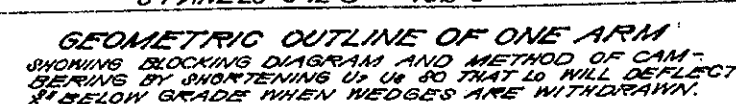
S.C. 51



14



SWINGING RADIUS - 104'6"



STANDARD PLAN
20'0" SWING SPAN
24'0" CLEAR ROADWAY
TIMBER DECK

DATED 7-3 19

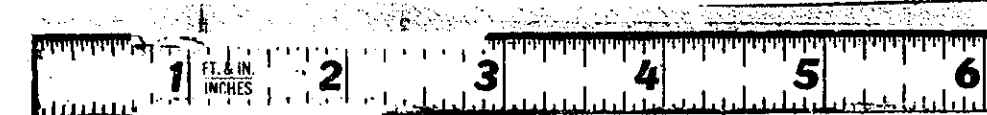
STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

			STATE OF LOUISIANA DEPARTMENT OF HIGHWAYS		
			DESIGNED <u>Bruce Ruckel</u>	DETAILED <u>Bruce Ruckel</u>	TRACED _____
			CHECKED _____	CHECKED _____	CHECKED _____
DATE	DESCRIPTION	BY	IN CHARGE OF		
REVISIONS			H.E.D. DESIGNER		

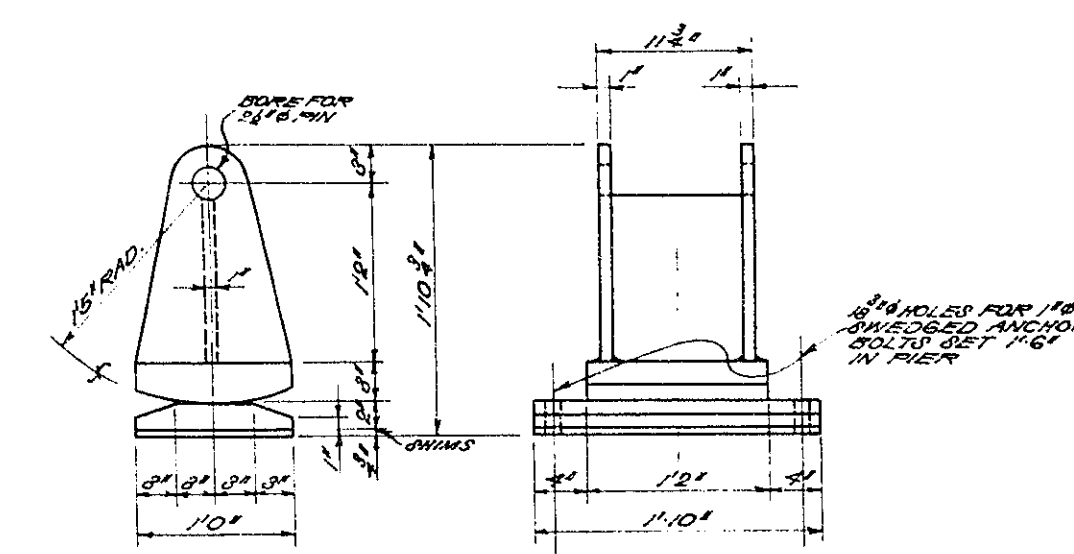
SHEET 1 OF 3

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AS BUILT PLANS



15

[illegible]

GENERAL NOTES:

SPECIFICATIONS: LOUISIANA HIGHWAY COMMISSION
1980 MODIFIED

CLASS 1 BALCONG CALCULATED WEIGHT OF MATERIALS
WE LOAD: ONE (1) TON TRUCK ON EACH ARM OF SPAN
ELIMINATING CLAUSE NOT TO BE CONSIDERED
IN LOCAL ROAD MEMBERS CARRYING
STRESS REINFORCING

SPICES: OPEN HOLES 2" & UNLESS NOTED
OTHER THAN 2" SHALL BE INCLUDED IN UNIT
COST OF BALCONG SPAN TO BE INCLUDED IN UNIT
PRICE BID FOR CLASS 1A CONCRETE IN BALCONG BLOCK.
REINFORCING SHALL NOT BE USED FOR REINFORCING
MINIMUM THICKNESS OF METAL 0.25"

STANDARD PLAN
20'0" SWING SPAN
24'0" CLEAR ROADWAY
TIMBER DECK

DATED 7-3 1941

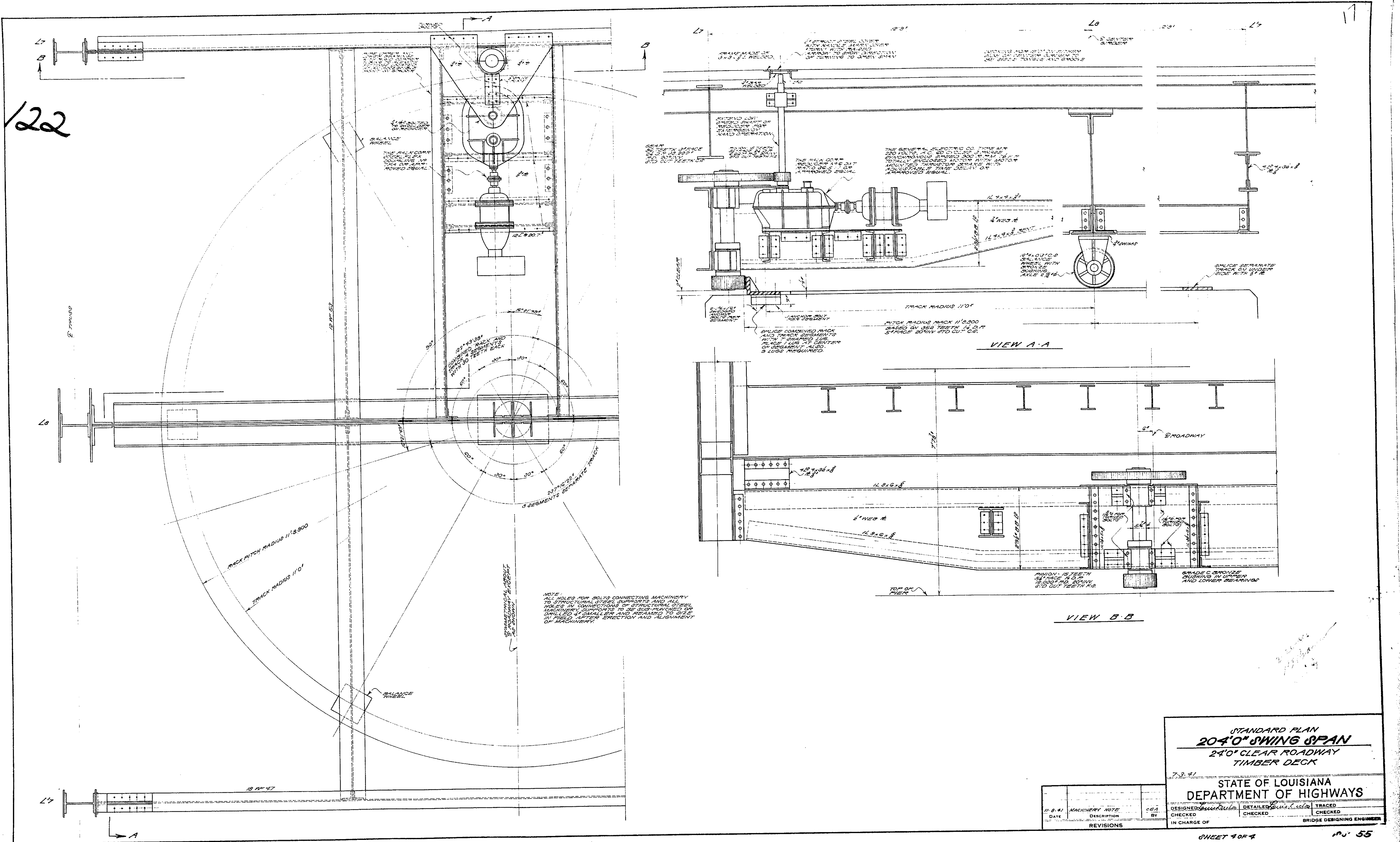
STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

			STATE OF LOUISIANA		
			DEPARTMENT OF HIGHWAYS		
			DESIGNED <i>Louis Rude</i>		TRACED
			CHECKED		CHECKED
DATE	DESCRIPTION	BY			DESIGNED

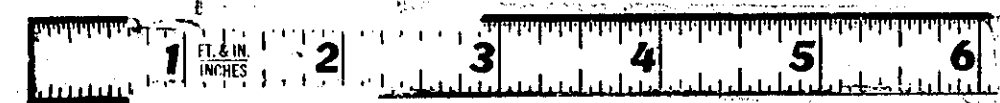
SHEET 2 OF 4

୨୨ 55

AS BUILT PLANS

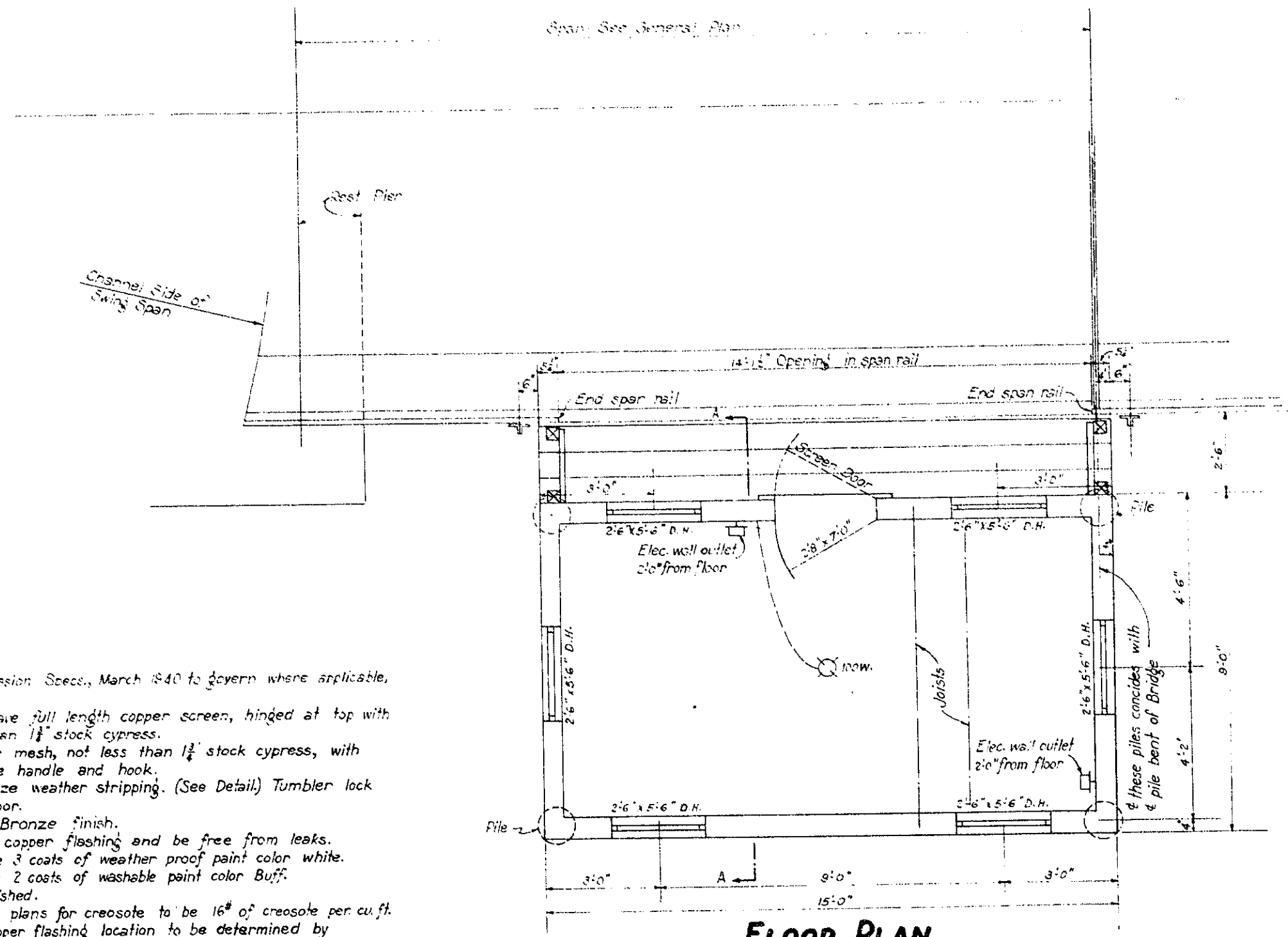


AS BUILT PLANS

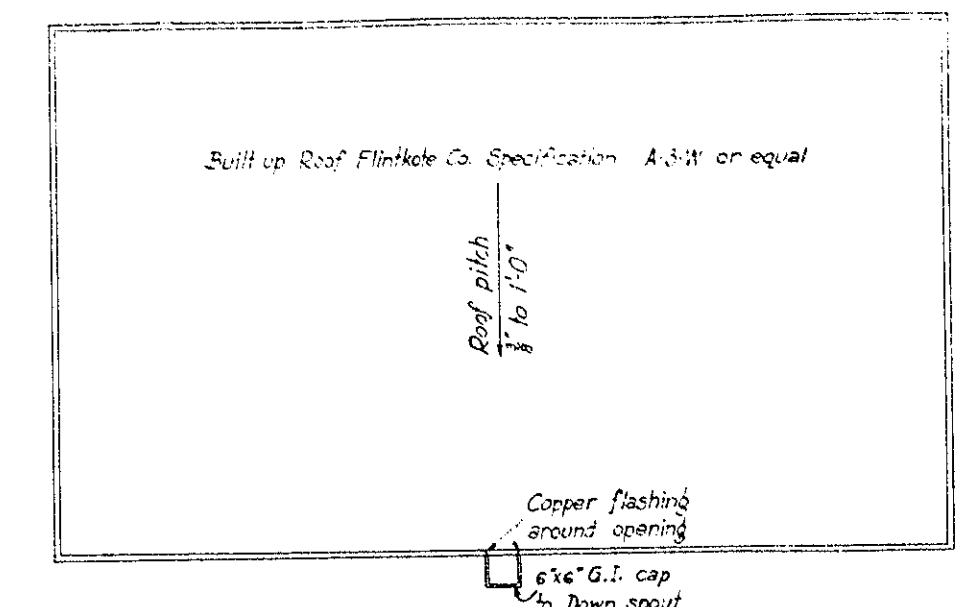


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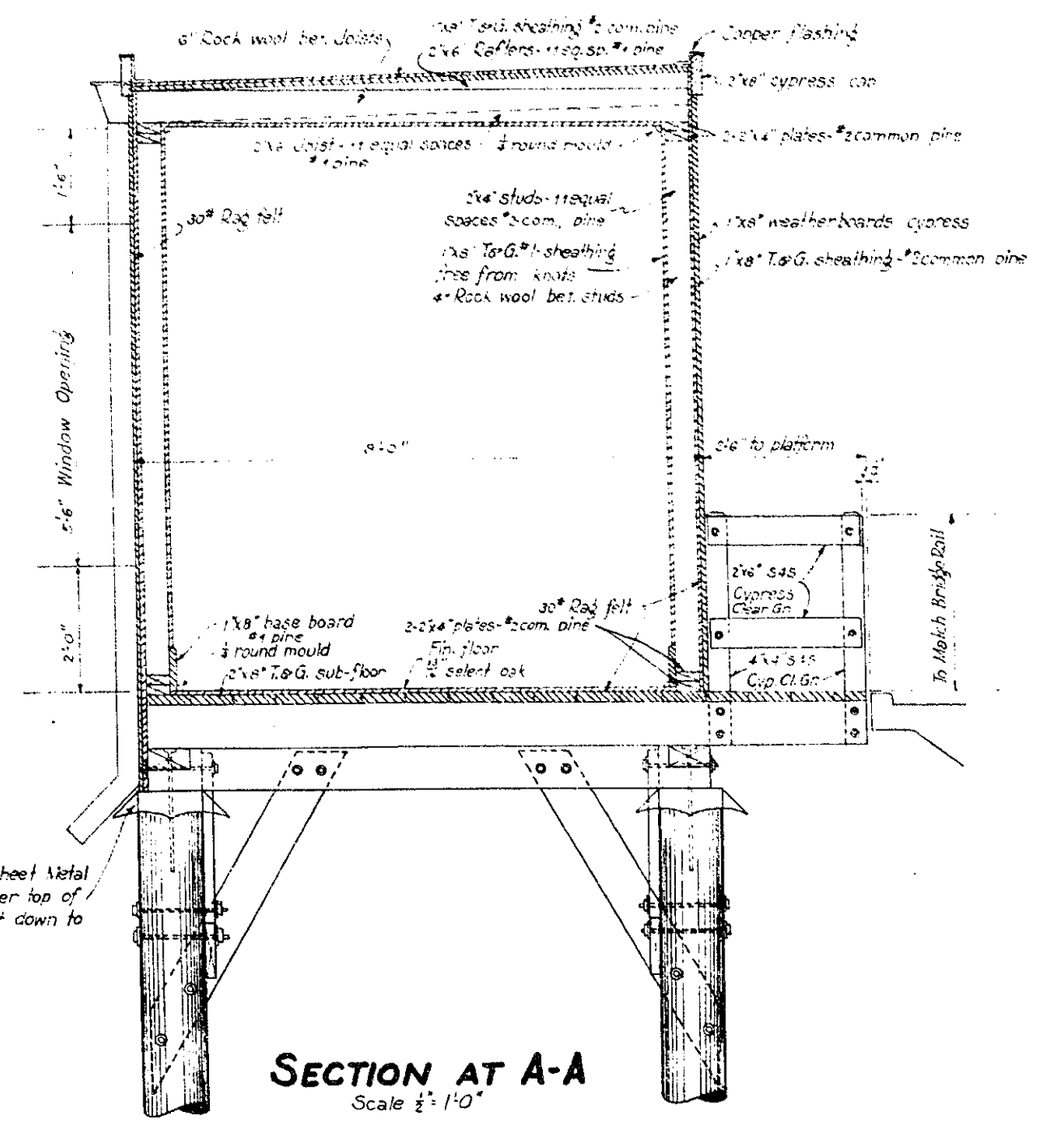
General Notes:
Louisiana Highway Commission Specs., March 1940 to govern where applicable, except as otherwise noted.
All window openings to have full length copper screen, hinged at top with hook at bottom, not less than 1 1/2" stock cypress.
Screen door to be copper mesh, not less than 1 1/2" stock cypress, with double spring hinges, provide handle and hook.
Main door to have Bronze weather stripping. (See Detail) Tumbler lock to be provided for above door.
All hardware to have Bronze finish.
Roof and flue to have copper flashing and be free from leaks.
All exterior walls to have 3 coats of weather proof paint color white.
All interior walls to have 2 coats of washable paint color Buff.
Floor to be hard Oil finished.
All timbers called for in plans for creosote to be 16" of creosote per cu ft.
Provide G.I. flue with copper flashing location to be determined by contractor.
All materials required to complete Operators house to be included in lump sum bid for house except creosoted timber piles which are to be paid for at the price bid for that item.
Provide all necessary materials to complete this job if specified or not.
All cypress to be clear grade.



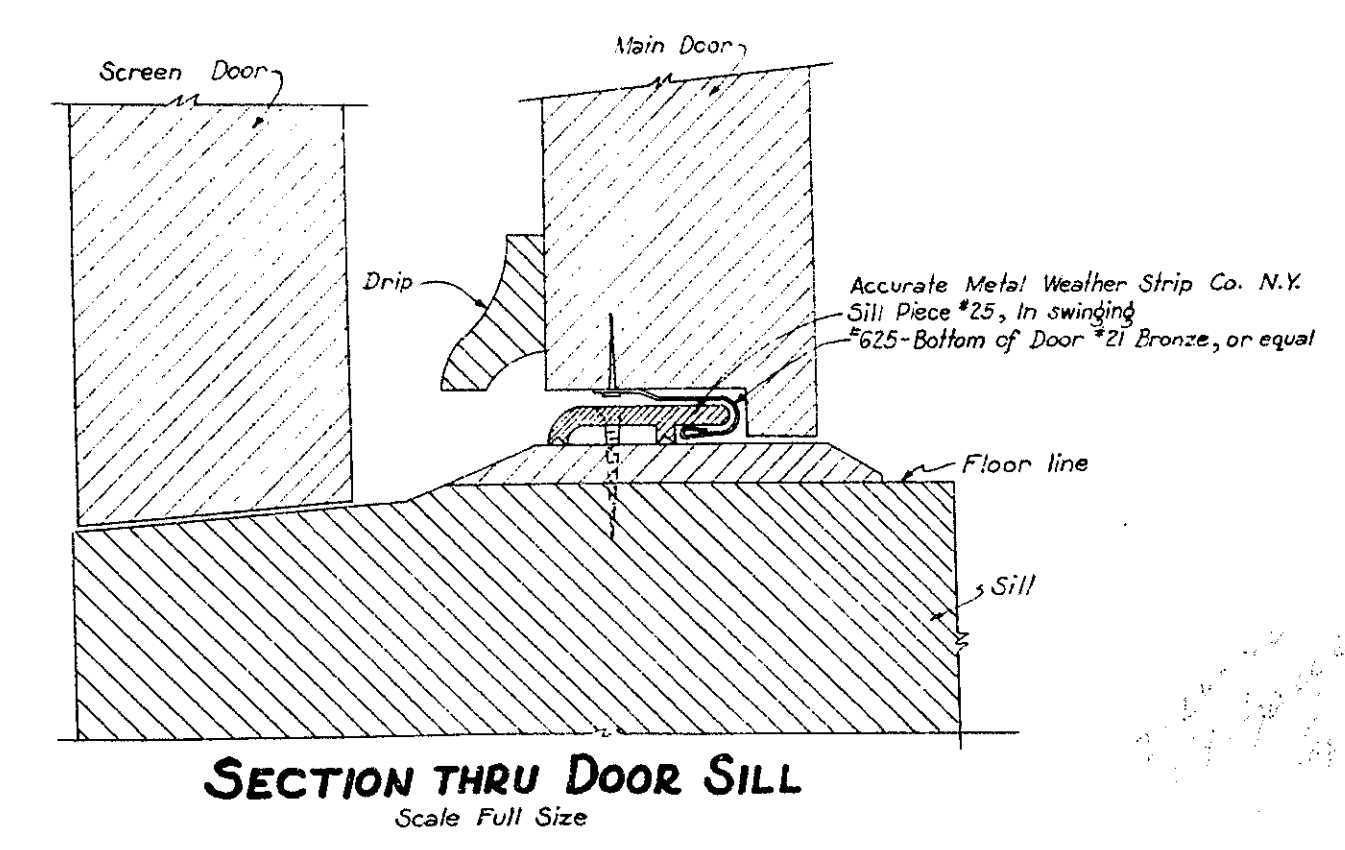
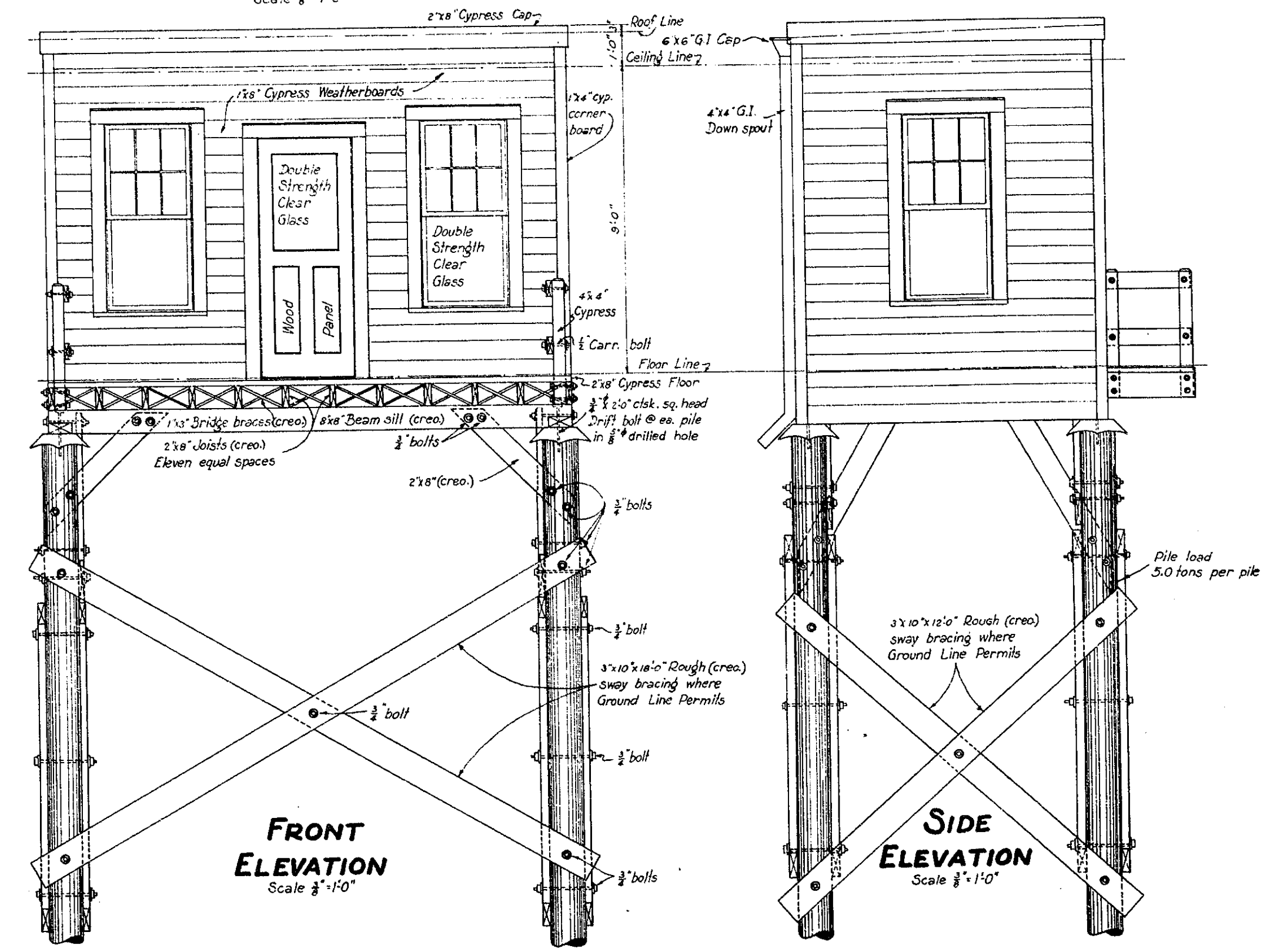
FLOOR PLAN
Scale 3/8" = 1'-0"



ROOF PLAN
Scale 3/8" = 1'-0"



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



SECTION THRU DOOR SILL
Scale Full Size

STANDARD BRIDGE OPERATORS HOUSE			
8'x14' FRAME STRUCTURE			
STATE OF LOUISIANA			
DEPARTMENT OF HIGHWAYS			
BATON ROUGE, LA. JUNE 19 41			
10-15-41	2"x8" BRACES	L. T.	DESIGNED
DATE	DESCRIPTION	BY	CHECKED
			IN CHARGE OF
			REVISIONS

T-M-18

AS BUILT PLANS

