

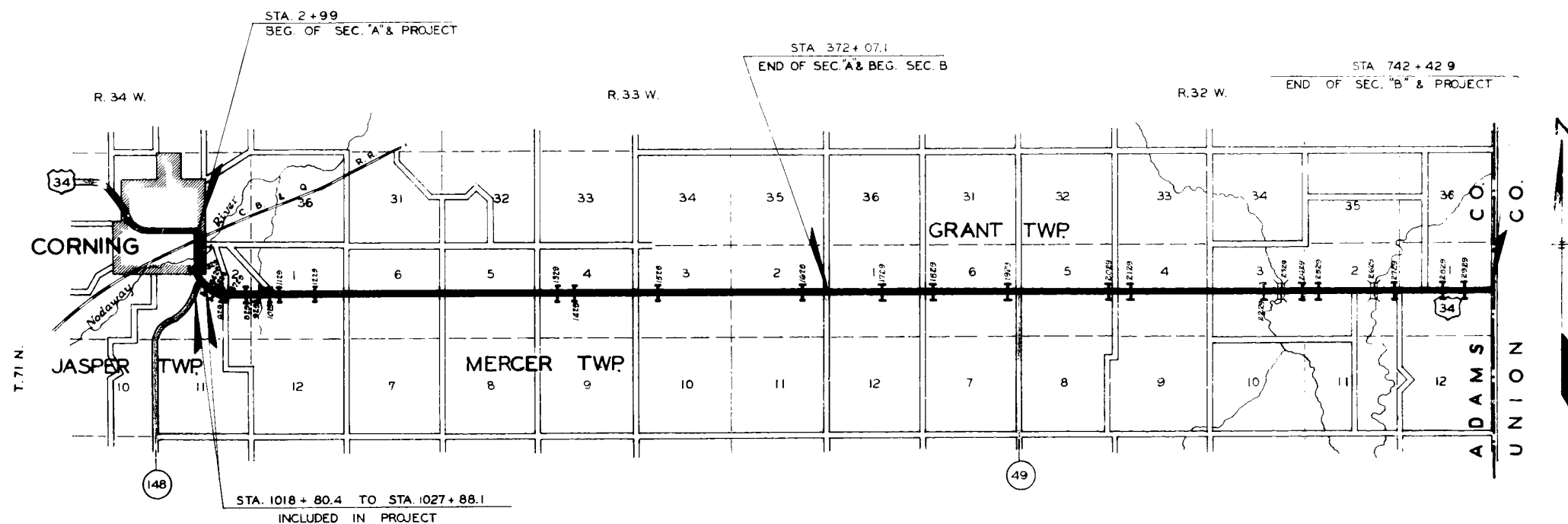
DESIGNS FOR BRIDGES AND CULVERTS

PRIMARY ROAD SYSTEM FEDERAL AID PROJECT NO. 152

SECTIONS

ADAMS COUNTY
IOWA STATE HIGHWAY COMMISSION

JUNE 1929



CONVENTIONAL SIGNS

City Limits _____
County Lines _____
Section Lines _____
Railroads _____
Culverts _____
Bridges _____

Approved _____ Date _____
Chief Engineer - Iowa Highway Commission

F.A. Proj. No. 152 Adams Co. Iowa. 1929

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JUNE 1929

DESIGN	LOCATION			DESCRIPTION	ESTIMATE OF QUANTITIES				
	STATION	SEC.	TOWNSHIP		SIZE & TYPE	SK. CONCRETE	REIN. STEEL	STRUCT. STEEL	PLING No. LG.
329	19+50	2	Jasper	24" x 44' Circular Culv.		10.9	990		
429	29+50	2	"	3' x 2' x 49' Box "		16.9	1520		
529	35+50	2	"	24" x 51' Circular "		12.2	1140		
629	38+73	2	"	3' x 2' x 69' Box "		22.7	1930		
729	47+00	2	"	3' x 3' x 59' " "		23.3	2155		
829	57+75	2	"	24" x 38' Circular "		9.8	885		
929	61+00	1	"	12' x 12' x 44' Box "		162.5	14735		
1029	68+00	1	"	24" x 40' Circular "		10.2	920		
1129	71+45	1	"	4' x 3' Box Culv. Ext.	43'35"	11.5	1270		
1229	93+00	1	"	24" x 40' Circular Culv.		10.2	920		
1329	225+86	4	Mercer	3' x 2' Box Culv. Ext.		5.9	565		
1429	234+39	4	"	4' x 4' " " "		10.9	1080		
1529	278+68	3	"	24" Circular Culv. "		4.2	315		
1629	358+93	2	"	3' x 2' Box " "		4.9	485		
Totals						316.1	28910		
1729	401+50	1	"	24" Circular " "		3.7	265		
1829	427+51.5	6	Grant	5' x 4' Box " "	30'	15.9	1755		
1929	467+95	"	"	6' x 4' " " "	30'	15.5	1480		
2029	531+54	5	"	24" x 38' Circular Culv.		9.8	885		
Sub Total						449	4385		

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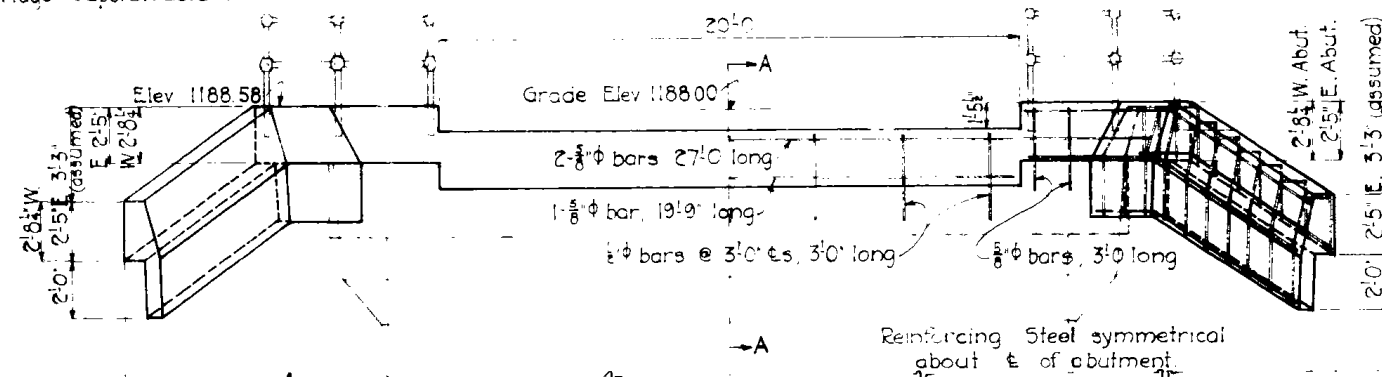
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14 EXH.

Note:-

Old gas pipe rail to be reset as shown.
Bridge Contractor to build up back wall and wings as indicated.
Fill not to be disturbed. Wing extension below ground line to be formed by trenching.
Old rail reset in new wings so that top of pipe rail is level with top of angle rail on bridge superstructure.

Bench March 1920 No 59 + on N West
Wing of Bridge 14' Left of Station
204+47 Elev 1185.57



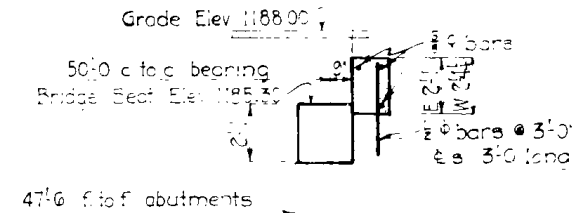
Half Section Present Floor.

Half Section Proposed Floor.

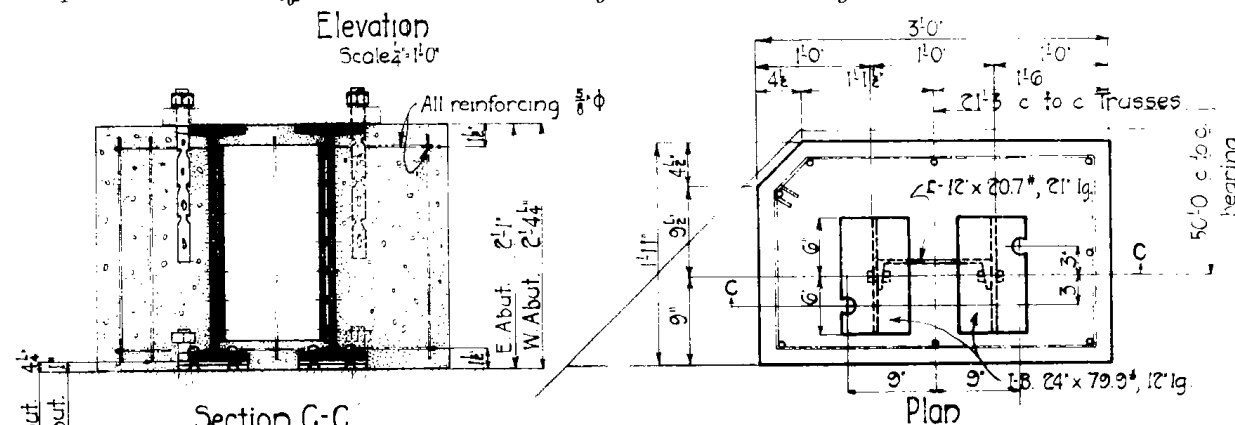
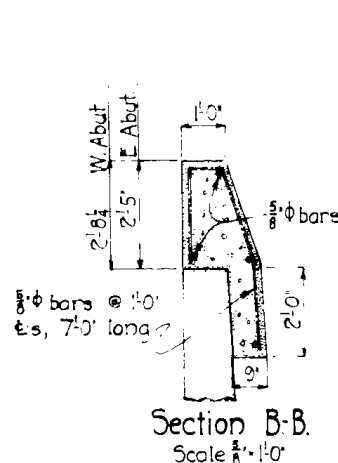
Scale 1/4" = 1'-0"

Note:-

Present floor to be thoroughly cleaned before new slab and curbs are placed.
Place wire mesh 1" above present floor. Mesh to weigh not less than 30 lbs per 100 sq feet. Welded mesh preferred with all wires #8 gauge and spaced at 6" c/c. All joints lapped a minimum of 3'.

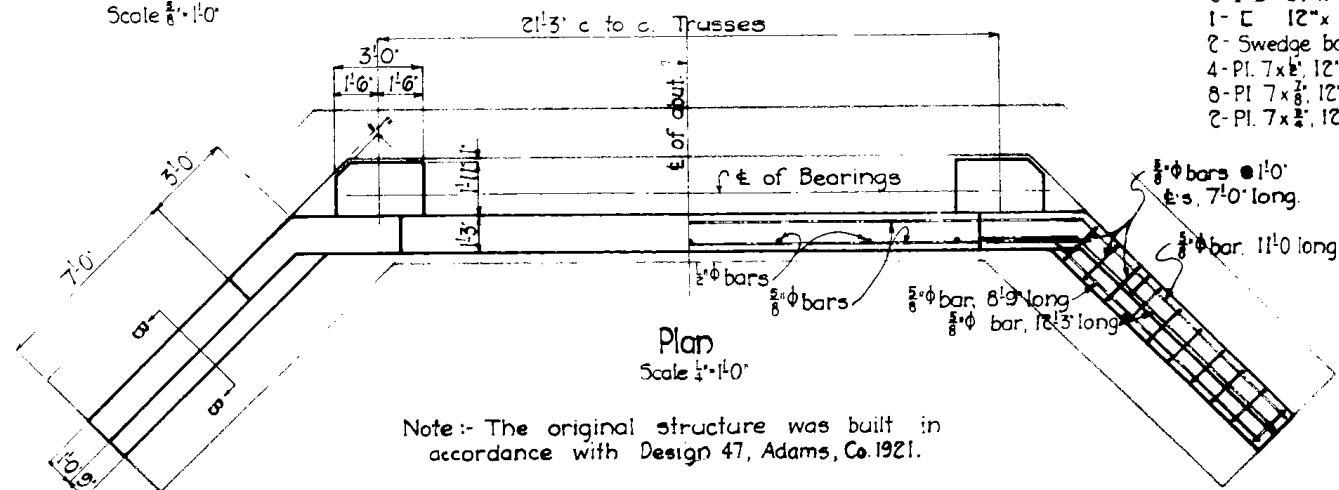


Section A-A.



Detail of Truss support blocks
Scale 1" = 1'-0"

Bearing Block Material:-
2-I-B 24" x 79.9", 12' long
1-C 12" x 20.7", 21' long
2-Swedge bolts 1/2" x 14"
4-Pl. 7x1/2", 12' long E Abut.
8-Pl. 7x1/2", 12' long W Abut.
2-Pl. 7x1/2", 12' long



Note:- The original structure was built in accordance with Design 47, Adams, Co. 1921.

Quantities			
Part.	Abut.	Super.	Total
Conc.	14.8 CY.	10.0 CY.	24.8 CY.
Steel Rein.	820 Lbs.	480 Lbs.	1300 Lbs.
Steel Sfr.	1360 Lbs.	—	1360 Lbs.

Bridge No.
Section No. 3
Township Grant,
County Adams.

Bearing Block Note:-

The outer flanges of the 24" I-Beam supports are to be notched to accommodate the old anchor bolts which are to be left in position and to allow for placing of the new bolts.
Bearings to be unpainted except tops of top flanges of 24" I-Beams.
All bolts to be 1/2" x 14".

General Notes:-

Bridge Contractor to raise present 50' x 20' Pony Truss Bridge and insert metal supports. Old masonry plate is then to be reset on the supports and the truss lowered and new anchor bolts installed. The metal supports are to be encased in concrete as indicated.
If horizontal bars are spliced use a 50 diameter lap and splice at or near center.

Red or faint lines indicate old work.
Old work such as backwall, wingwall and floor to be thoroughly cleaned before placing new work. Old curbs to be removed and new curbs built as shown.

Construction to be in accordance with the Iowa State Highway Commission Specifications for Highway Bridges Series 1225.

Design for Raising
50' x 20' Pony Truss Bridge.

Concrete Floor & Abutments

Abutment Details

Station 024+73 Fed Aid Proj. 152

Adams County

Iowa State Highway Commission
June 1929 Scale as noted.

Design No 2329 Adams Co.