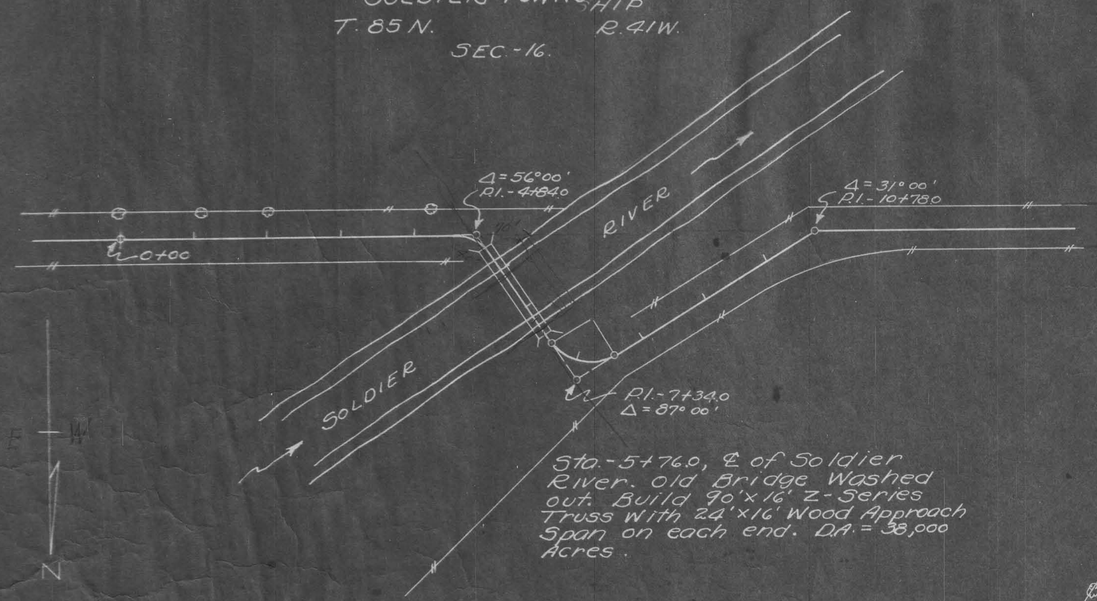
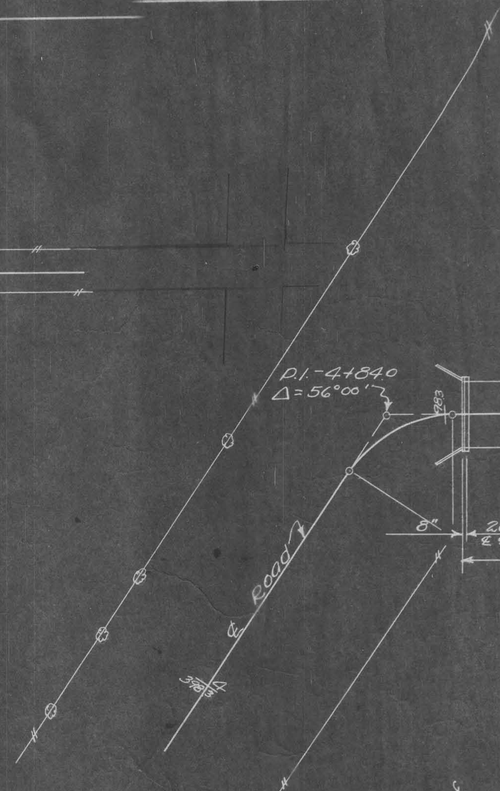
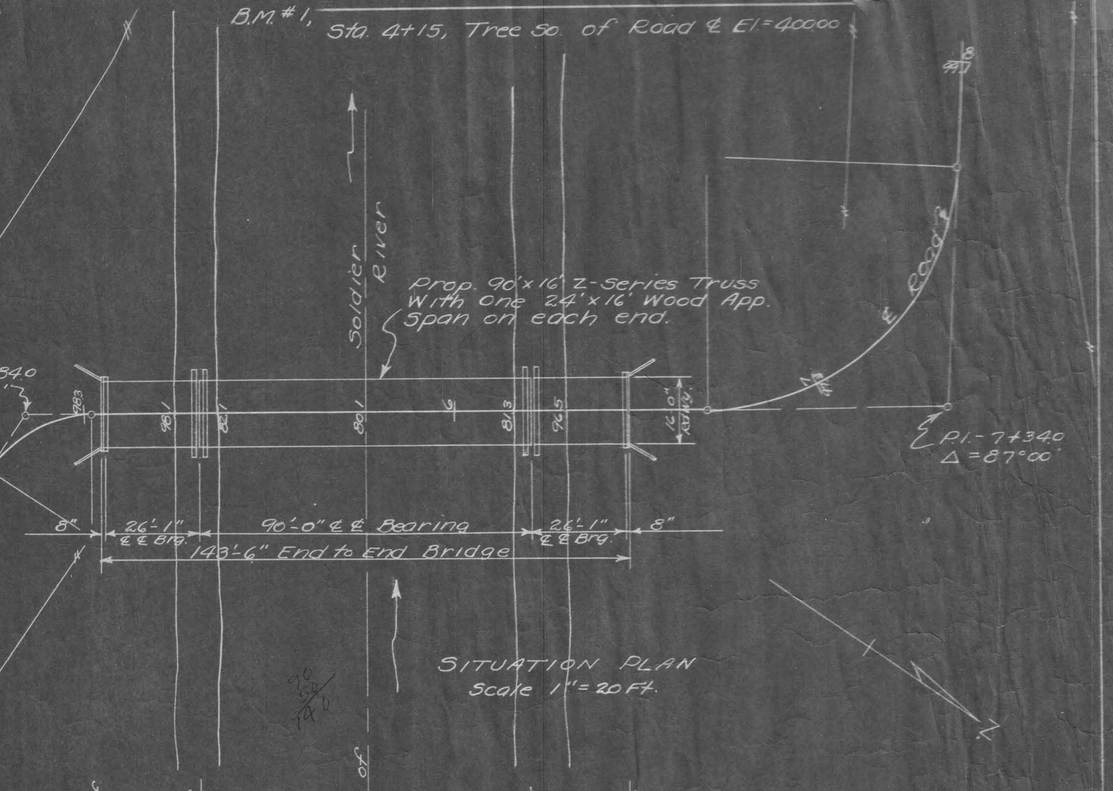
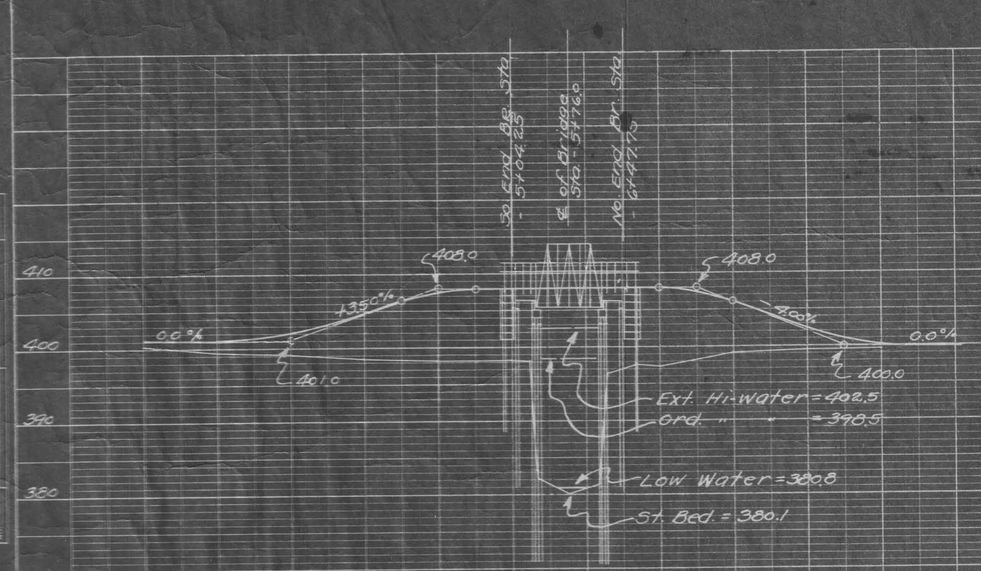


GENERAL PLAN
Scale 1" = 100 Ft.

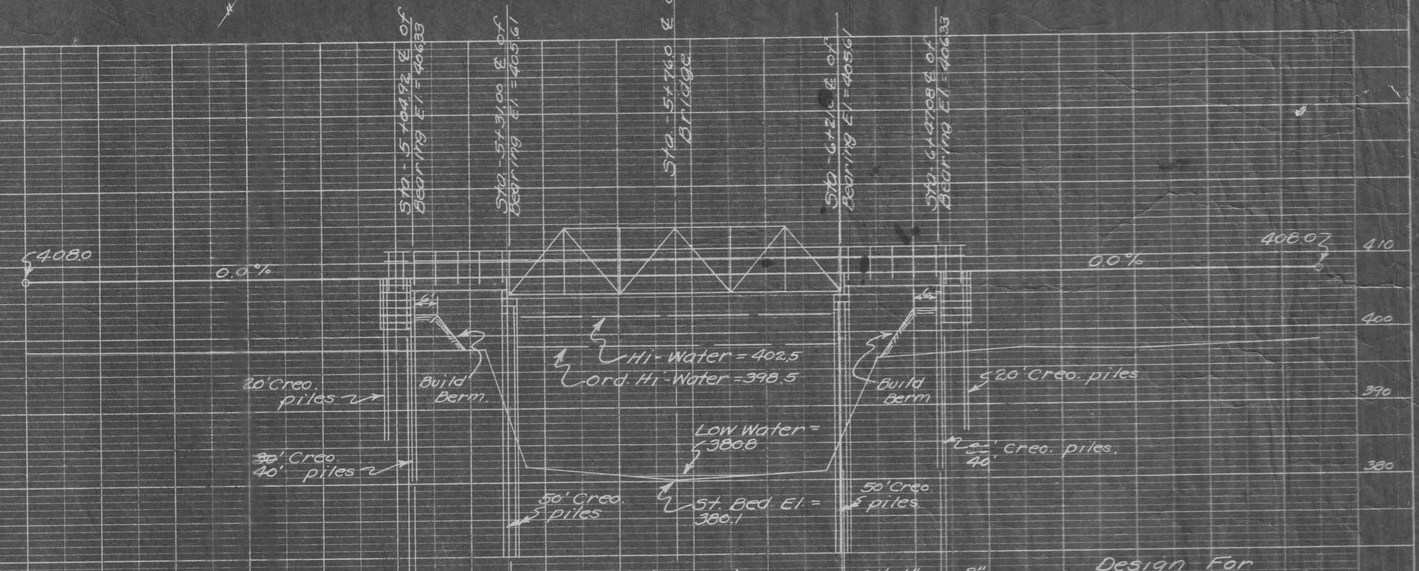




SITUATION PLAN
Scale 1" = 20 Ft.



PROFILE ON ROAD ℄
Scale 1" Horiz. = 100'
1" Vert. = 10'



PROFILE ON ROAD ℄
Scale 1" Horiz. = 20'
1" Vert. = 10'

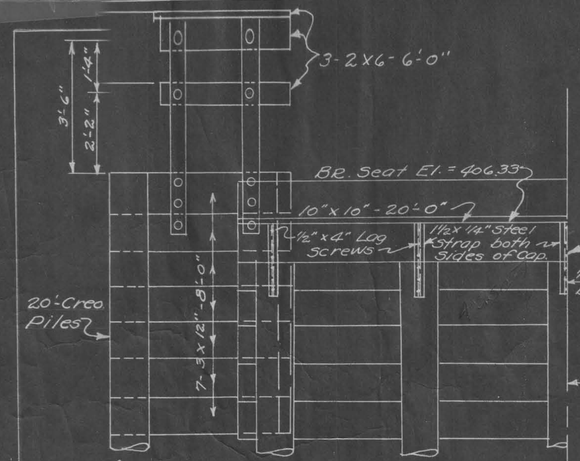
Design For
90'x16' Z-Series Low Truss
With 24'x16' Wood Approach
Span on each End. Wood
Floor & Sub-Structure
GENERAL & SITUATION PLANS
CRAWFORD COUNTY, IOWA.

Location:
Sec. 9-16
Soldier Twp.

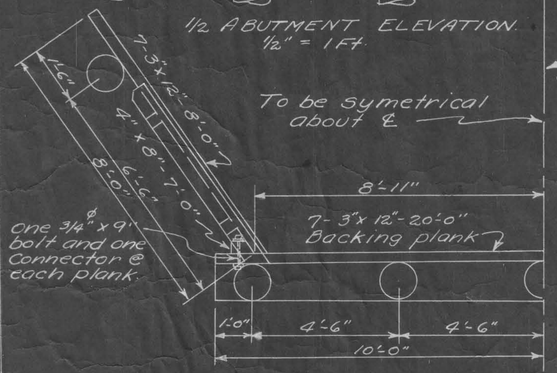
Sheet 1 of 2.

Design # 51-4 CRAWFORD COUNTY

PLATE 1.--PLAN--PROFILE C. F. W. & N. E.
CHARLES BRUNING COMPANY, INC.



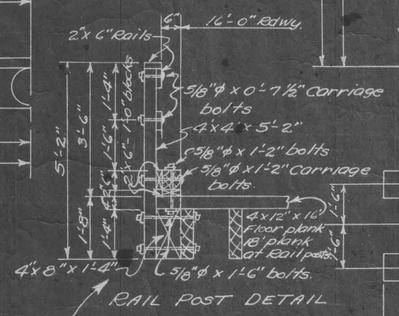
½ ABUTMENT ELEVATION.
½" = 1 Ft.



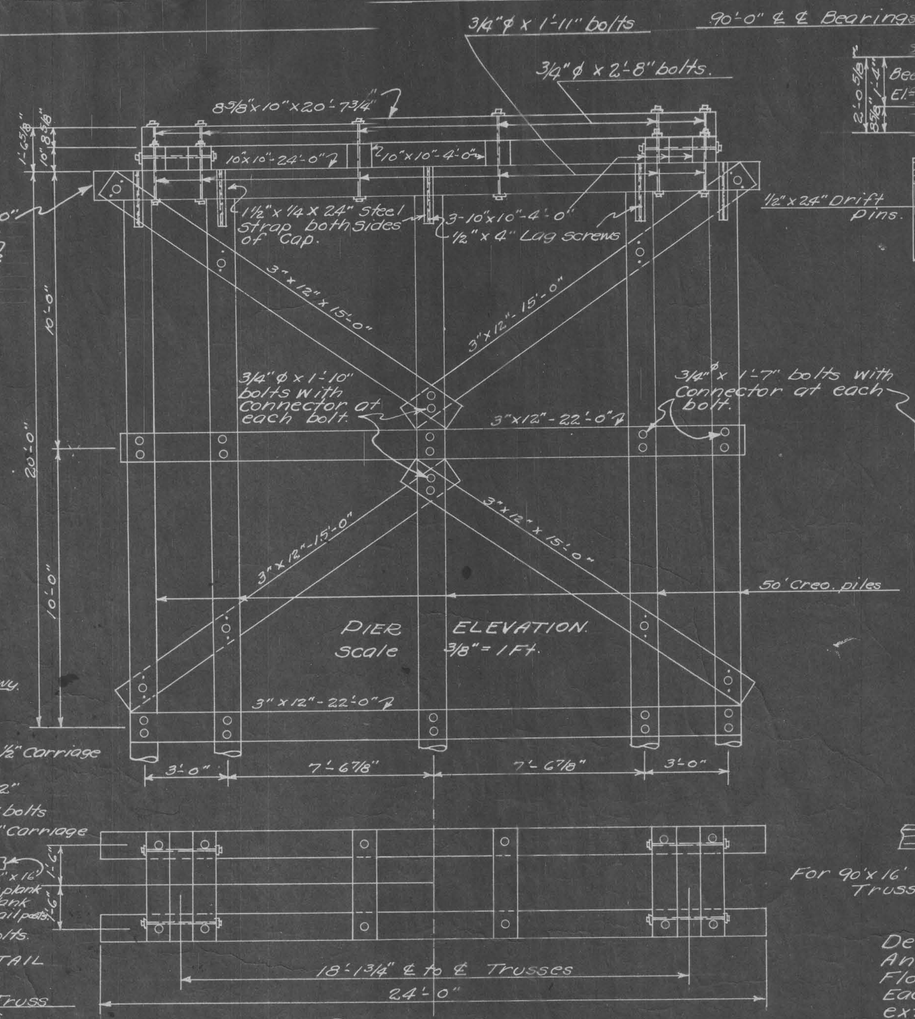
To be symetrical about ℄

Note: Both Abutments to be identical

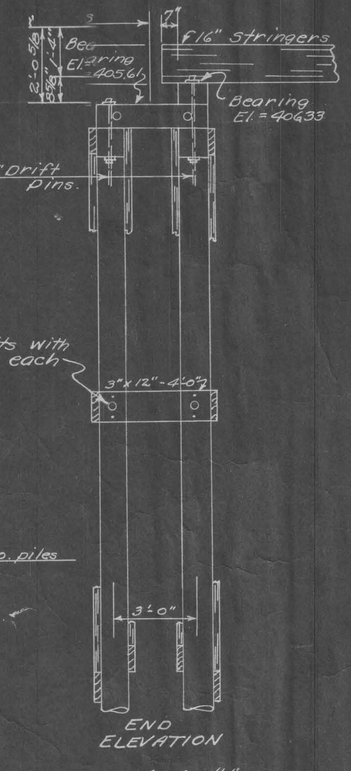
½ PLAN VIEW.



RAIL POST DETAIL

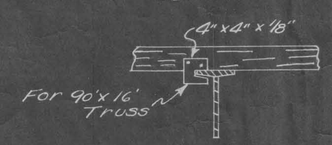


PIER ELEVATION.
Scale 3/8" = 1 Ft.

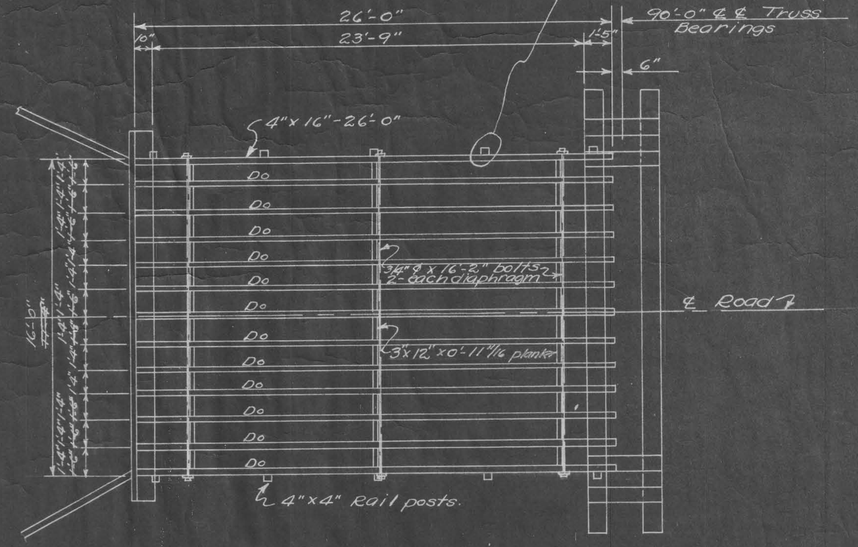


END ELEVATION

PLAN OF PIER



Detail of Stanley Anchor for fastening Floor plank to beams Each plank Clipped to external Stringers and every 2nd plank to internal Stringers alternated. Include in price bid for lumber.



APPROACH SPAN LAYOUT
Both Approaches to be identical
Scale 1/4" = 1 Ft.

ESTIMATED QUANTITIES.

Description	No.	Length	Feet B.M.	Totals
ONE ABUTMENT			200'	
Creo. piles	5	40'	40'	
" "	2	20'	420'	
3x12 Backing	7	20'	336'	
3x12 Wing Plk.	14	8'	167'	
10x10 Cap	1	20'	37'	
4x8 Timbers	2	7'	27'	Untr.
4x4 Railposts	4	5'	36'	"
2x6 Rails	6	6'	116#	
Hardware				
Totals one Abutment				
Creo. piles				240'
" Lumber				960'
Untreated "				63'
Hardware				116#
ONE PIER				
Creo. piles	10	50'	500'	
10x10 Caps	2	24'	200'	
" "	8	3'-10"	250'	
8 5/8"x10" "	1	20-8"	157'	
3x12 Bracing	4	22'-0"	264'	
3x12 "	8	15'-0"	360'	
Hardware			405#	
3x12x4'-0"	2	4'-0"	24'	
Totals one Pier.				
Creo. piles				500'
" Lumber				1455'
Hardware				405#
ONE APPROACH SPAN				
4"x16" Stringers	13	26'-0"	1802'	
4x4 Railposts	10	5'-8"	189'	Untr.
2x6 Rails	6	14'-0"	168'	"
3x12x0'-11 1/16" Blocks			200'	"
4x12 Floor plank	27	18'-0"	360'	
		16'-0"	1344'	"
6x6 Wheel Rail	2	26'-0"	156'	
Hardware			386#	
Totals one App. Span				
Creo. Lumber				2102'
Untreated "				1997'
Hardware				386#
90'-TRUSS SPAN				
4x12 Floor plank	16	18'-0"	1152	Untr.
4x12 " "	75	16'-0"	4800	"
6x6 Rails	10	18'-0"	540'	
2x6 Blocks	32	1'-0"	32'	
Hardware			73#	
Totals				
Creo. piles				1430 LF
" Lumber				9606 B.M.
untreated "				10,072 "
Hardware				1887#
Struct. Steel				44,735#

GENERAL NOTES:

90'x16' Z-Series Truss & Approach Span material is on hand in the County. All Structural Steel, Piling, Lumber and Hardware Will be furnished to the Contractor F.O.B. the Bridge Site by the County.

Piling shall be driven to full penetration unless otherwise approved by the Engineer. A minimum bearing value of 15 tons shall be maintained.

All lumber and piling except floor plank & Approach Hand & Wing rail material to be creosoted. All Sub-Structure Wood bolts to be 3/4"ϕ With C'logee or malleable washers under heads and nuts. Superstructure Wood bolts to be 5/8"ϕ With washers as stated above.

Backwall & Wing plank to be nailed to Contact piling with 2-50d galv. nails. Wood bracing to be fastened at each Connection With "Bulldog" or approved Timber Connectors, 3/4"ϕ bolts and 6" nails as shown.

Contractor to furnish all labor, Tools and equipment necessary to Complete the structure ready for painting. Painting to be done by County forces.

The Standard Specifications of the Iowa Highway Commission, Series of 1948 Shall apply to all the Work together With Special Construction details as shown hereon.

Plank Clips, Nails & Spikes are not included With hardware quantities. Add to price bid for lumber.

Design For
90'x16' Z-Series Low Truss
With 24'x16' Wood Approach
Span on each End. Wood
Floor & Sub-structure
Sub-Structure Details
CRAWFORD COUNTY, IOWA.

Location:
Sec. 9-16
Soldier Twp.

Sheet 2 of 2

Design # 51-4 CRAWFORD COUNTY