CONTRACT NO. 64800				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	130BR-4	BOONE	39	32
STA. 429+00.0000 TO STA. 434+00.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Old: A "U" type wall on top of SN wing wall of Bridge No. 81 at Sta 309+07 structural El 837.00
Exist Structure - built 1900 on 301 Skew 119 in 1900
Sta 310+00 Construction Cont. Contractor
Superstructure - Flood DC Abut, Sand DC Bent
Superstructure to be removed and structure retained
Utilizing Stage Construction. No Salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

					SHEET NO. 1 OF 39 SHEETS
DIST. 1	ROUTE IL 76	BOONE	N	3	

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown

It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.

Expansion bolts shall consist of self drilling expansion anchors and 3/4" x 12" headed bolts.

Shoulder transition to wingwall shall be stepped with broken concrete cost incidental.

The following surfaces of the abutments shall be waterproofed: the back of the new abutments walls and wingwalls from the top of the footing to 12" below the top of wall.

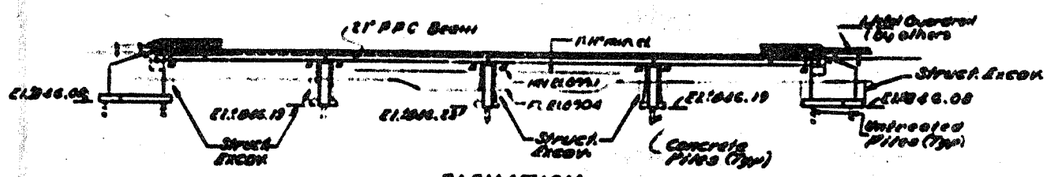
The basic lead silica chromate paint system shall be used for shop painting of structural steel.

The Contractor shall drive 2 timber test piles in permanent locations, one at ea. Abut & one concrete test pile at Pier 2 as directed by the Engineer before ordering the remainder of the piles.

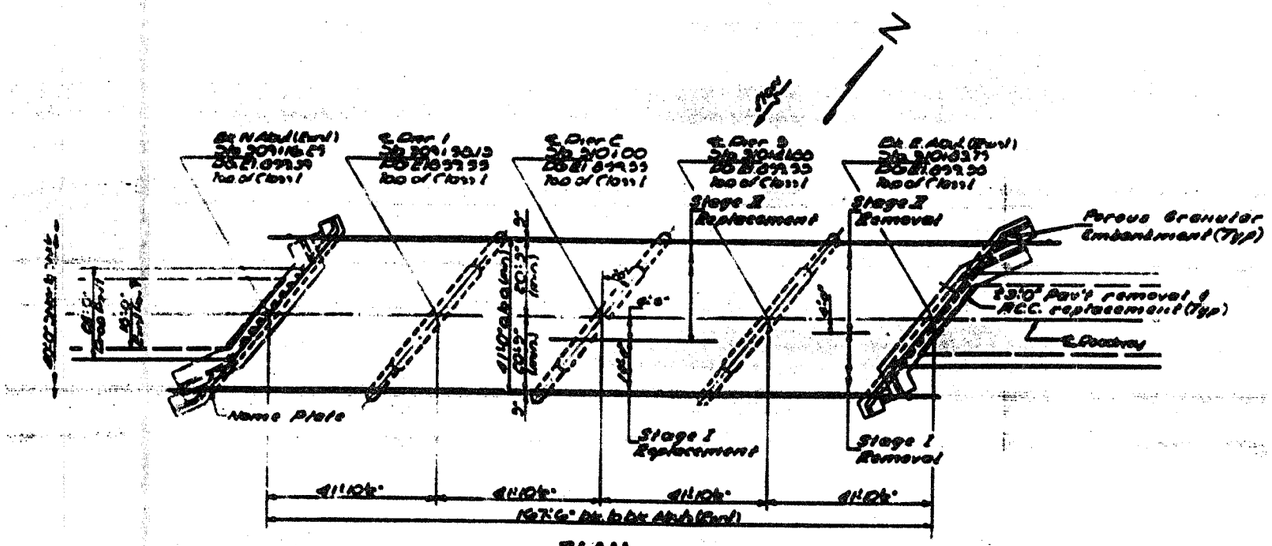
Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.

Water Sealer shall be 6" from the top of wall to the top of footing.

The top surface of the beams shall be finished in accordance with Article 504.08 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.



ELEVATION



PLAN

TOTAL BILL OF MATERIAL

ITEM	Unit	Super	Sub	Total
Concrete Piles	Lin. Ft.		418	418
Test Piles (Concrete)	Each		1	1
Portland Cement Mortar Paving Course	Lin. Ft.	1963		1963
Bituminous Concrete Surface Course Class I	Tons	96		96
Concrete Removal	Cu. Yds.		33.8	33.8
Expansion Bolts (3/4")	Each		144	144
Class X Concrete	Cu. Yds.	15	180	195
Precast Prestressed Concrete Deck Beams (21")	Sq. Ft.	6843		6843
Steel Railing Type 7	Lin. Ft.	340		340
Reinforcement Bars	Lbs.	1130	13820	14950
Removal of Existing Superstructure	Each	1		1
Waterproofing Membrane System	Sq. Yds.	788		788
Name Plate	Each		1	1
Reference Marker (Type A)	Each	1		1
Temporary Sheet Piling	Lin. Ft.	132		132
Protective Coat	Sq. Yds.	15		15
Drilled Holes (Min. Dia. 4")	Lin. Ft.	27		27
Precast Concrete Coping	Each	2		2
Concrete Fascia Panel	Each		2	2
Expansion Joint	Lin. Ft.		38	38
Steel Reinforcement	Pounds	1130		1130
Structural Steel	Pounds		780	780

* See Special Provisions

WATERWAY INFORMATION

Drainage Area — 4.950 Acres
Design Flood — Frequency — 100 Years
Design Discharge — 1,600 C.F.S.
Base Flood — Frequency — 500 Years
Discharge — 2,100 C.F.S.
Stream Slope — 0.0015 Ft./Ft.

DESIGNED	THEU, B.A.B.
CHECKED	Roland S. (2)
DRAWN	J. KRAMER
CHECKED	P.S.L. ST

DESIGNED — DRAWN — PASSED — APPROVED — DIRECTOR OF HIGHWAYS

STATION 310+00
LOADING H 20-S 16

NAME PLATE
(See Std. 2113)

DESIGN STRESSES

DECK UNITS
f'c = 5000 psi
fc = 2000 psi
fs = 20,000 psi
n = 10

PREC. PRESTR. UNITS
f'c = 5000 psi.
fc = 2000 psi
fs = 170,000 psi - Tot. Strands
fs = 180,700 psi - Tot. Strands
Allow 5% Overstress in n

LOCATION SKETCH

GENERAL PLAN & ELEVATION
& PROPOSED
FAP RTE 303 — SECTION 130BR-4
BOONE COUNTY
STATION 310+00.00

LOADING H 20-44 (Alternate)