

Bench Mark: #1 checked in S.E. corner of bridge 26' Lt. of Sta. 285+58 @ F.A. Rt. 14.
Elevation 450.52.

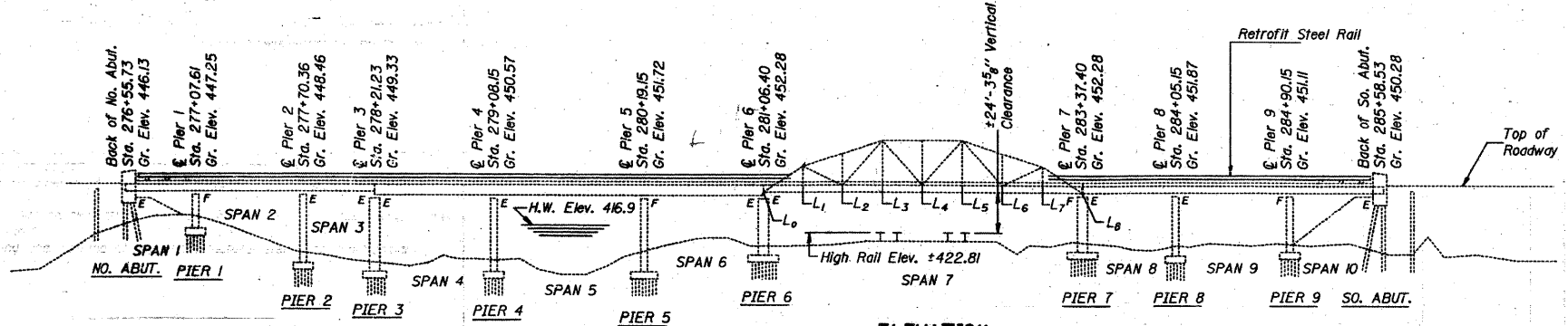
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS
082-0030	ST. CLAIR	23	5

Existing Structure: #082-0030 Built 1954 as F.A. Rt. 4 Sec. 4-1-VB,D,E & F Sta. 281+07.13 902'-9 1/2" long x 56'-4" out to out. The Existing Structure consists of one 3 span continuous WF Beam Unit, one 3 span continuous G. Girder Unit, one 8 panel truss and one 3 span continuous WF Beam Unit. The existing substructure consists of pile bent abutments with 4 column piers for approaches and 3 column piers for truss. The existing concrete deck on the truss span shall be replaced and the existing deck on the approach spans shall be repaired by partial removal and PDC Overlay. New expansion joints shall be installed and new retrofit rail shall be installed utilizing stage construction to maintain two-way traffic at all times.

GENERAL NOTES

All new structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. Expansion joint angles and attached bars shall be shop painted with one coat of red lead primer and a final coat of aluminum paint.
Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.
Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
Field welding of construction accessories will not be permitted to any part of the truss, the bottom flanges and webs of floor beams and stringers. Field welding in other areas will be permitted only when approved by the Engineer.
Fasteners shall be high strength bolts. Bolts 3/4", open holes 1/8", unless otherwise noted.
For cleaning and painting of existing structural steel, see the Special Provisions.

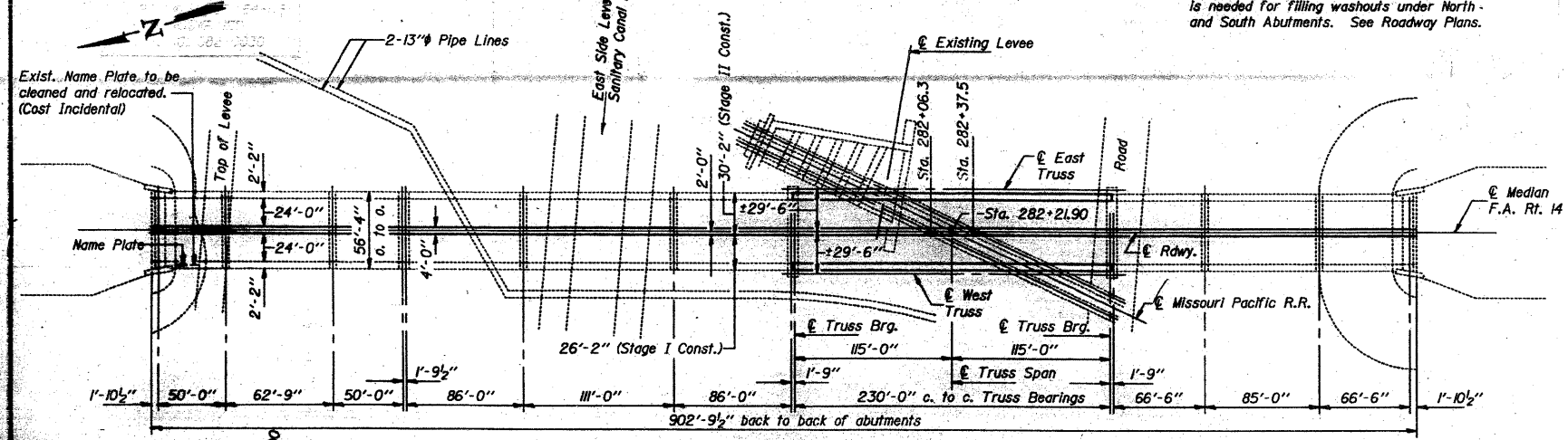


ELEVATION

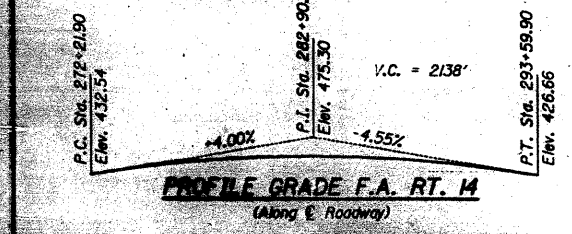
Note: About 30 cubic yards of embankment is needed for filling washouts under North and South Abutments. See Roadway Plans.

STATION 281+07.13
REBUILT 1983 BY
STATE OF ILLINOIS
F.A. RT. 14 SEC. 64-1VB1
LOADING H20
STR. NO. 082-0030

NAME PLATE
(See Std. 2113)



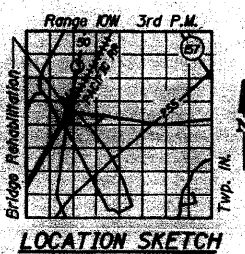
PLAN



PROFILE GRADE F.A. RT. 14
(Along E. Roadway)

DESIGN STRESSES

FIELD UNITS
f'c = 3500 psi
fy = 60000 psi (Reinforcement)
fs = 20000 psi (AASHTO M183 Structural Steel)
LOADING HS20
(New Construction)
Design Specifications: AASHTO 1983



LOCATION SKETCH

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Removal of Existing Concrete Deck	L. Sum	1		1
Concrete Removal	Cu. Yd.	101.9	8.4	110.3
Protective Coat	Sq. Yd.	1483		1483
Class X Concrete	Cu. Yd.	451.9	8.4	460.3
Structural Steel	Lbs.	9150		9150
Cleaning and Painting Steel Bridge	L. Sum	1		1
Reinforcement Bars	Lbs.	15260		15260
Reinforcement Bars (Epoxy Coated)	Lbs.	88280		88280
Name Plates	Each	1		1
Deck Drains to be Adjusted	Each	10		10
Bituminous Concrete Surface Removal	Sq. Yd.	3513		3513
Steel-Rail Retrofit	Lin. Ft.	1807		1807
Temporary Bridge Rail	Lin. Ft.	903		903
Concrete Bridge Deck Scarification	Sq. Yd.	3513		3513
Jack and Reposition Bearings	Each	10		10
Plasticized Grout Deck Concrete Overlay	Sq. Yd.	3513		3513
Deck Slab Repair-Full Depth	Sq. Yd.	173		173
Repair Concrete Structures	SQ.FT.		165	165
Neoprene Expansion Joint 2"	Lin. Ft.	58		58
Neoprene Expansion Joint 4"	Lin. Ft.	116		116
Bridge Slab Repair-Partial Depth	Sq. Ft.	675		675
Handrail Removal	Lin. Ft.	1782		1782
Preformed Joint Seal 2 1/2"	Lin. Ft.	116		116
Temporary Support System	L. Sum	1		1
Deck Slab Repair-Partial Depth	Sq. Yd.	100		100

GENERAL PLAN
OVER PRAIRIE DUPONT CANAL
& MO PAC RAILROAD
F.A. RT. 14 (ILL. RT. 3) SEC. 64-1VB1
ST. CLAIR COUNTY
STA. 281+07.13

DESIGNED: [Signature]
CHECKED: [Signature]
DATE: 8/5/2018

Revised 4-5-85 DAB

FOR INFORMATION ONLY

CB Coombe-Bloxdorf P.C.
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- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
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