

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Station 360+48.00 on top of S.W. wingwall right of Sta. 361+37. Elev. 691.98,
located approximately 200' right of C.F.A.I. 74, Station 360+48.00 Elev. 693.101

Existing Structure: Built in 1971 as F.A.I. Route 74, Section 81-1HB-5, S.N. #081-0108. It is a 2 span continuous, curved plate girder structure with a 7 1/2" R.C. Slab, supported on R.C. vaulted abutments and a four column grade separation Pier. The contractor shall remove and replace the existing R.C. deck, and reuse substructure units and steel, utilizing stage construction.

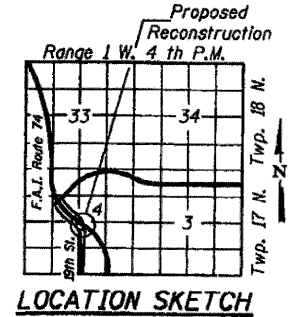
GENERAL NOTES

All existing structural steel shall be cleaned by Method A.
The three coat lead and chromate free alkyd paint system shall be used for field painting of existing structural steel. The color of the final finish coat shall be Munsell Standard 7.5G 4/8 Interstate Green.
The three coat lead and chromate free alkyd paint system shall be used for shop and field painting of new structural steel. The color of the final finish coat shall be Munsell Standard 7.5G 4/8 Interstate Green.
Field welding of construction accessories will not be permitted to the bottom flange of girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 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.
All top surfaces of the abutments and the front face of the backwalls shall receive Bridge Seat Sealer Treatment. Estimated quantity = 1100 Sq. Ft.
The Contractor will be required to mark, on top of the concrete deck, the locations of the top flange of all the steel girders, prior to any removal of the bridge concrete deck. Saw cutting directly over the top of the girder flanges is not permitted.
The concrete, for bridge floors finished in accordance with Article 503.15 of the Standard Specifications, shall be placed and compacted parallel to the skew in uniform increments along centerline of the bridge. The finishing machine, when required, shall be set parallel to the skew for striking off and screeding the concrete.

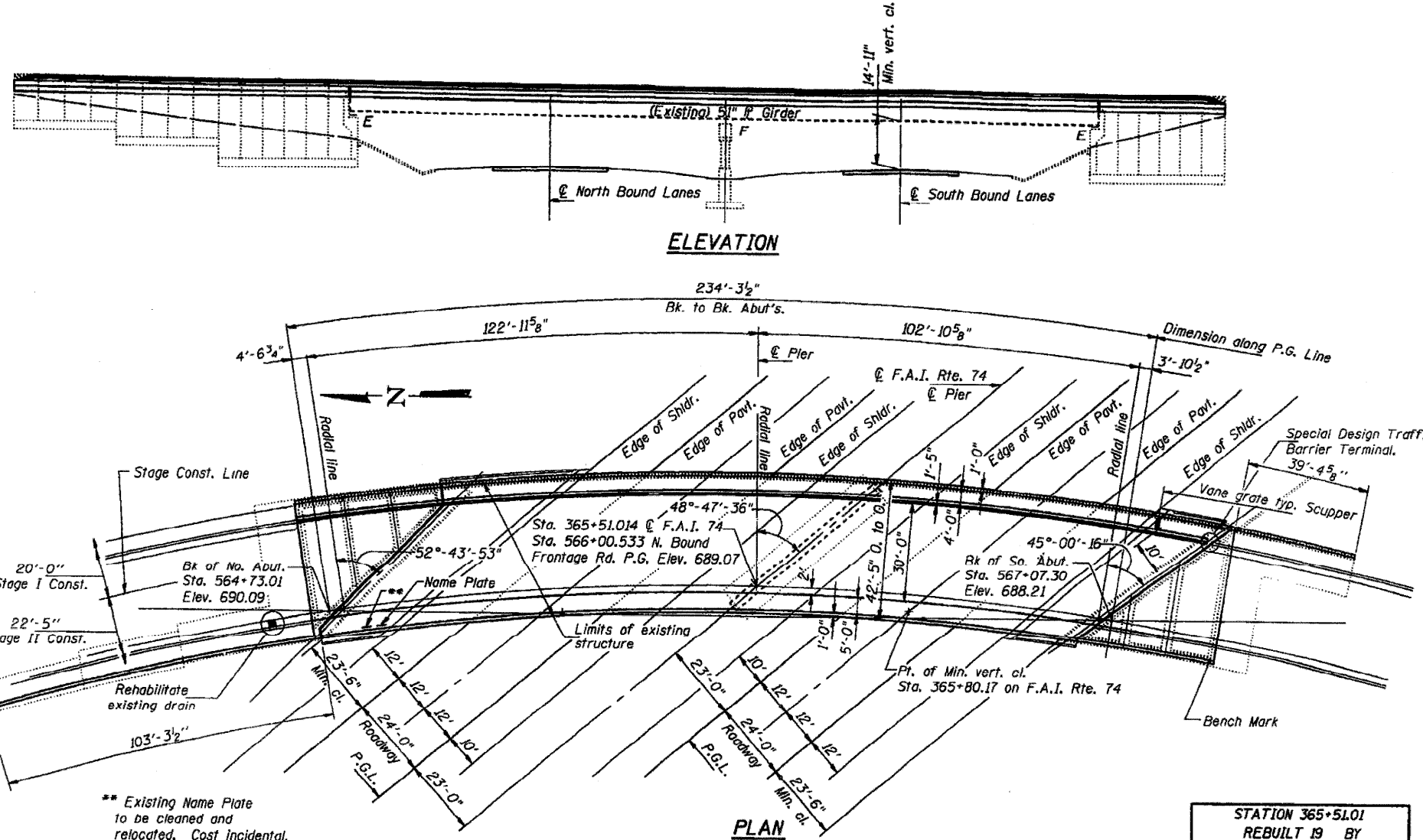
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.		12	12
Removal of Existing Concrete Deck	Each	1		1
Class X Concrete Superstructure	Cu. Yd.	459.3		459.3
Protective Coat	Sq. Yd.	649		649
Elastomeric Bearing Assembly, Type I	Each	12		12
Structural Steel	Pound	1930		1930
Aluminum Railing, Type L	Lin. Ft.	370		370
Cleaning and Painting Steel Bridge	L.S.	1		1
Reinforcement Bars, Epoxy Coated	Pound	11210	1160	11370
Name Plates	Each	1		1
Bridge Seat Sealer	L.S.		76	76
Drainage Scuppers	Each	1		1
Jack & Remove Existing Bearings	Each	12		12
Neoprene Expansion Joint 2"	Lin. Ft.	129		129
Formed Concrete Repair (Depth Less Than or Equal to 5")	Sq. Ft.		325	325
Pedestrian Railing	Lin. Ft.	318		318
Parapet Railing	Lin. Ft.	273		273

* Quantity is for parapets and sidewalks only.
** Includes slab over vaulted abutments.



GENERAL PLAN
19th STREET OVER
F.A.I. ROUTE 74
SECTION 81-1HB-5
ROCK ISLAND COUNTY
STATION 365+51.01
STRUCTURE NUMBER 081-0108



STATION 365+51.01
REBUILT BY
STATE OF ILLINOIS
F.A.I. RT. 74 SEC. 81-1HB-5
PROJECT IR-74-1(82)
LOADING HS20
STR. NO. 081-0108

NAME PLATE
(See Std. 2113)

DESIGN SPECIFICATIONS
AASHTO (1989) and Seismic Retrofitting
Guidelines for Highway Bridges.
LOADING HS 20-44
Allow 25#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS
f_c = 3,500 psi
f_y = 60,000 psi (Reinf.)
f_s = 20,000 psi (Exist. Structural Steel)
f_y = 36,000 psi (New Structural Steel)

CURVE DATA

Δ = 65°-01'-54"
D = 7°-30'-00"
T = 486.98'
L = 867.09'
E = 142.02'
R = 763.94'
S.E. = 0.0511'
P.C. Sta. 559+81.07
P.T. Sta. 568+48.16

PROFILE GRADE F.A.I. RTE. 74
(Along Median Edge of Pavement)

PROFILE GRADE (19th Street)
2'-0" from Base of West Curb

DESIGNED	EXAMINED
CHECKED	PASSED
DRAWN Paul W. Sweet	APPROVED
CHECKED	

FOR INFORMATION ONLY
LOCATION 2 Structure Number 081-0108

FILE NAME = P:\PAINTING\64089\paint2008-1.dgn	USER NAME = jmkdj	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING BRIDGE PLANS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 50.0000' / IN.	PLOT DATE = Tue Jan 29 14:36:06 2008	DRAWN -	REVISD -	SCALE:	SHEET NO. OF SHEETS STA. TO STA.	*	**	ROCK ISLAND	40	12
		CHECKED -	REVISD -							CONTRACT NO. 64089
		DATE -	REVISD -			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* FAI ROUTES 74 & 88
** D2 BRIDGE PAINTING 2008-1