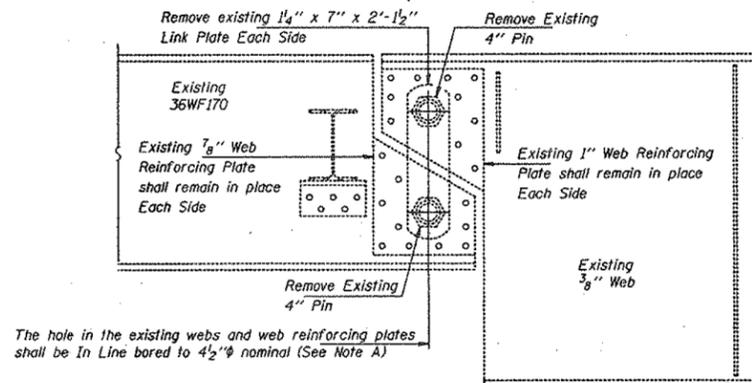


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	TOTAL SHEETS
F.A.I. 55	COOK	51	42	6 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

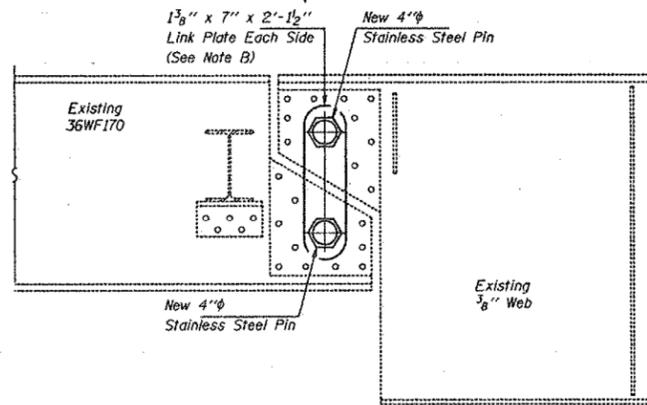
If the existing deck interferes with the existing link, concrete shall be removed to allow for removal of the existing link. Cost shall be included in the cost of "Pin and Link Plate Replacement".



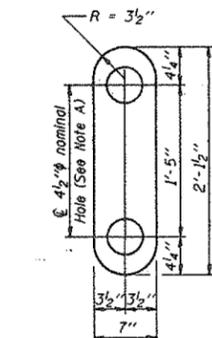
ELEVATION AT EXISTING PIN ASSEMBLY

Any Pins that can be easily removed without damage to the pin shall be salvaged and the Bridge Engineer shall be contacted for disposition. Cost of salvage is included in "Pin and Link Plate Replacement".

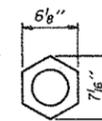
If the existing deck interferes with the new link plates, concrete shall be removed to provide clearance for the new pins and link plates. Cost shall be included in the cost of "Pin and Link Plate Replacement".



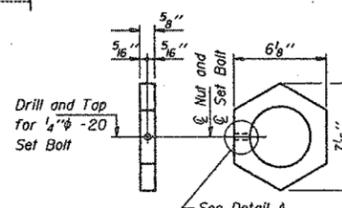
ELEVATION AT NEW PIN ASSEMBLY



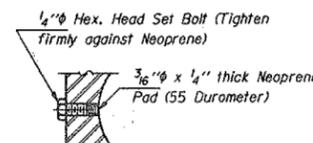
LINK PLATE DETAIL
(8 Required)



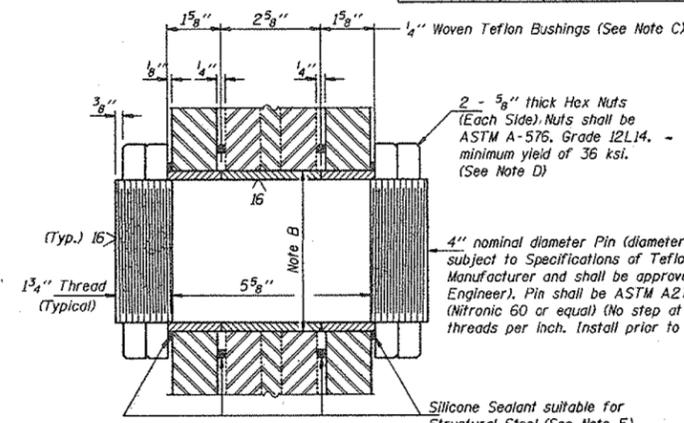
INTERIOR NUT DETAIL
(16 Required)



EXTERIOR NUT DETAIL
(16 Required)



DETAIL A
Set Bolts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.



SECTION THRU PIN
(8 Required)

GENERAL NOTES

- All new structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.
- The Contractor shall provide support and/or shoring systems for the beam in the area of existing pin and link plate replacement. See Special Provision "Temporary Support System."
- The inorganic zinc rich primer/acrylic/acrylic paint system shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the acrylic finish coat shall be Interstate Green, Munsell No. 7.5G 4/8. See Special Provisions "Cleaning and Painting New Metal Structures". Cost shall be included in the cost of "Pin and Link Plate Replacement".
- Existing Structural steel shall be cleaned and painted as required by the Special Provision "Cleaning and Painting Adjacent Areas of Existing Steel Structures". Cost shall be included in the cost of "Pin and Link Plate Replacement".
- All existing steel surfaces behind link plates shall be cleaned and primed before installation of new link plates. Cost shall be included in the cost of "Pin and Link Plate Replacement."
- 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, except the pin diameters, 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.
- The Pins and Link Plates shall conform to the minimum Charpy V-Notch Toughness of 25 ft.-lbs. at 40° F.
- The pins, link plates, bushings, nuts, Set Bolts, Neoprene Pad and silicone sealant are the items included in "Pin and Link Plate Replacement".
- The existing structural steel coating contains lead. The Contractor should take appropriate precautions to deal with the presence of lead on this project.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Temporary Support System	Each	4
Pin and Link Plate Replacement	Each	4

PIN AND LINK PLATE REPLACEMENT
F.A.I. ROUTE 55 SEC. 0707-614B
COOK COUNTY
STA. 106+26.32
STR. No. 016-1026

DESIGNED <i>Paul Summer</i>	AUGUST 5, 19 98
CHECKED <i>Victor H. Velazquez</i>	EXAMINED <i>Scott E. H...</i>
DRAWN <i>Paul Summer</i>	PASSED
CHECKED <i>VHV</i>	ENGINEER OF BRIDGES AND STRUCTURES

MAXIMUM REACTIONS

RP	(K)	40.3
Rt	(K)	43.9
Imp.	(K)	13.2
R (Total)	(K)	97.4

Note A:
Bore diameter for bushing in link plate, existing webs and web reinforcement plates shall correspond to bushing manufacturer's allowable tolerances for proper functioning. Hole diameter may be adjusted to allow use of stock bushings.

Note B:
Inside face of new link plates shall receive first field coat in shop. The primer shall pass the M.E.K. Rub Test before the first field coat is applied.

Note C:
Actual bushing thickness per manufacturer's specifications, 1/4" is approximate. Bushings shall be a self lubricating filament wound epoxy matrix backed Duralon Bearing, metal backed Fiber Glide Bearing or equivalent. No primer or grease shall be allowed on bushings. Bushings shall be suitable for dynamic loads of 20,000 psi.

Note D:
Tighten inside nuts to bring all bushings into firm contact, then back off 1/4 turn and tighten outer nuts and set bolts.

Note E:
Apply 3/8" bead to face of the web reinforcing plates approximately 1/2" from bushing immediately before installing new link plates. Place sealant around nuts after installation. Sealant shall be suitable for prolonged exterior exposure without losing flexibility or adhesion to painted steel surfaces. Proposed products shall be subject to Department's acceptance based on documented testing or other evidence.

FILE NAME =	USER NAME = tjenicke	DESIGNED - FSM	REVISED -
0161026.60J16.X24.existplan24.dgn		CHECKED - RMM	REVISED -
		DRAWN - FSM	REVISED -
		CHECKED - RMM	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2013-038B-R	COOK	821	584
			CONTRACT NO. 60J16	
ILLINOIS FED. AID PROJECT				