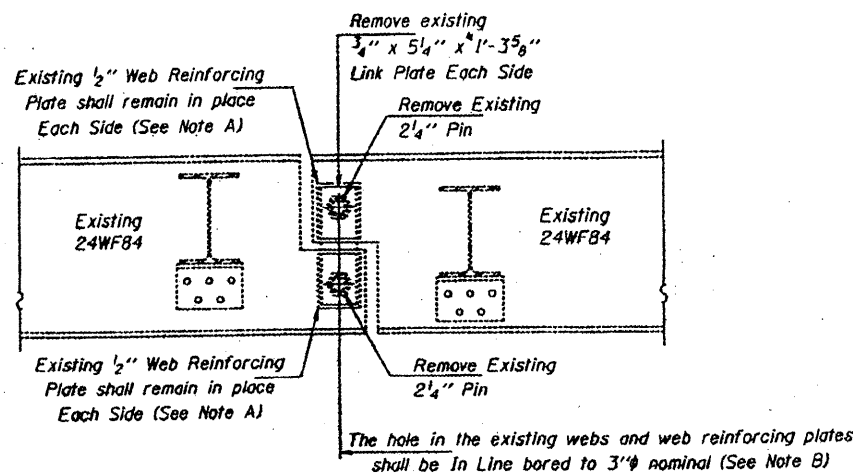


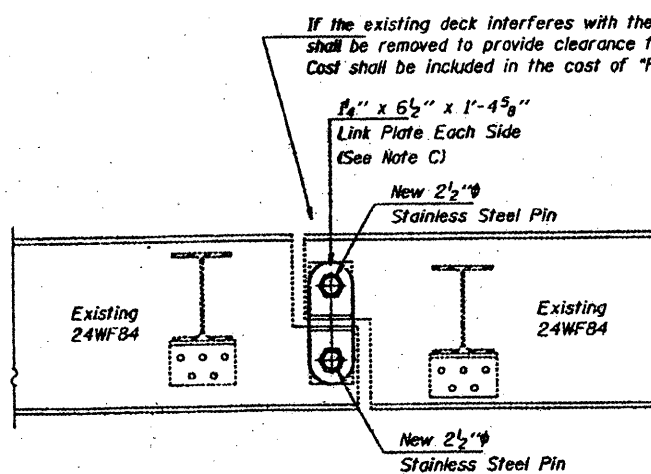
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONTRACT: 78040
ROUTE: F.A.I. 57
SECTION: (02-1B-1)P-1
COUNTY: ALEXANDER, IL; MISSISSIPPI, MO
SHEET 55 OF 67
FOR INFORMATION ONLY



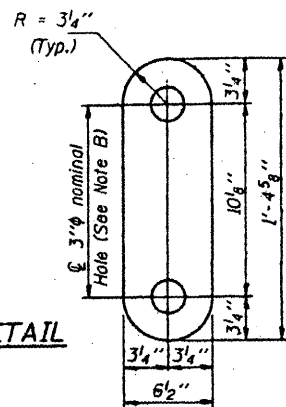
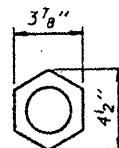
ELEVATION AT EXISTING PIN ASSEMBLY
SPANS 12, 13 AND 14

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".

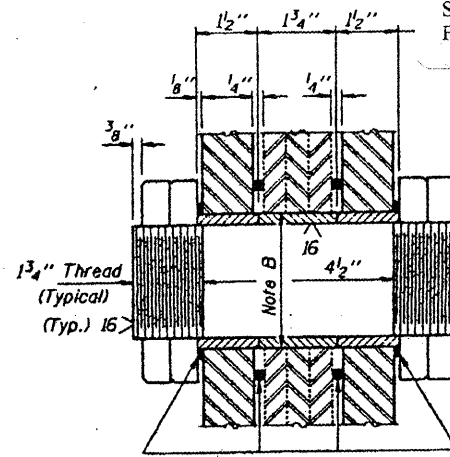


ELEVATION AT NEW PIN ASSEMBLY
SPANS 12, 13 AND 14

INTERIOR NUT DETAIL
(432 Required)



LINK PLATE DETAIL
(216 Required)

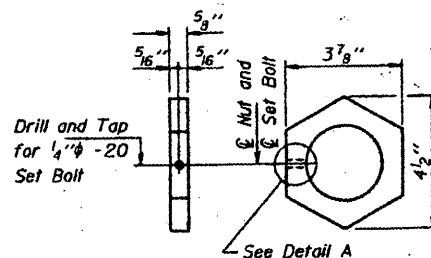


SECTION THRU PIN
(216 Required)

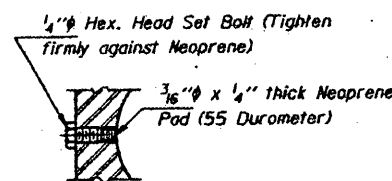
2 - 5/8" Thick Hex Nuts (Each Side) Nuts shall be ASTM A-576, Grade 12L14, minimum yield of 36 ksi. (See Note E)

2 1/2" nominal diameter Pin (diameter tolerances subject to Specifications of Teflon Bushing Manufacturer and shall be approved by the Engineer). Pin shall be ASTM A276, UNS 21800 (Nitrone 60 or equal) (No step at threads) 12 threads per inch. Install prior to new link plates.

Silicone Sealant suitable for Structural Steel (See Note F)



EXTERIOR NUT DETAIL
(432 Required)



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

Notes: For notes A thru F see sheet 2 of 13.

MAXIMUM REACTIONS AT PIN

RP	(K)	12.9
Rt	(K)	36.9
Imp.	(K)	11.0
R (Total)	(K)	60.8

DESIGNED	VHV
CHECKED	CME
DRAWN	Paul Sumner
CHECKED	VHV CME

FEBRUARY 19, 1998

EXAMINED *Joseph E. Hamm*
ENGINEER OF STRUCTURAL SERVICES

PASSED
ENGINEER OF BRIDGES AND STRUCTURES

BRIDGE NO. 1
STRUCTURE NO. 002-0022
FOR INFORMATION ONLY

PIN AND LINK PLATE REPLACEMENT
SPANS 12, 13 AND 14
F.A.I. ROUTE 57 SEC. 02-1B-1
ALEXANDER COUNTY
STA. 1168+50
STR. No. 002-0022