

1/8" THICK RUBBER PAD SHALL BE USED AT ALL LOCATIONS WHERE THE BRACKET IS IN CONTACT WITH THE BRIDGE BEAMS TO PREVENT DAMAGE TO THE PAINT AND TO MINIMIZE VIBRATION INDUCED MOVEMENT OF THE BRACKET ON THE BEAM.

INSTALL LOCK WASHERS AND NUTS ON BOTTOM SIDE OF TOP BRACKET. INSTALL BRACKET ASSEMBLY AND TIGHTEN (DO NOT OVERTIGHTEN TO THE POINT WHERE THE PLATE IS BOWED AND THE BRACKET IS NOT MAKING GOOD CONTACT WITH THE SURFACE OF THE BRIDGE BEAM).

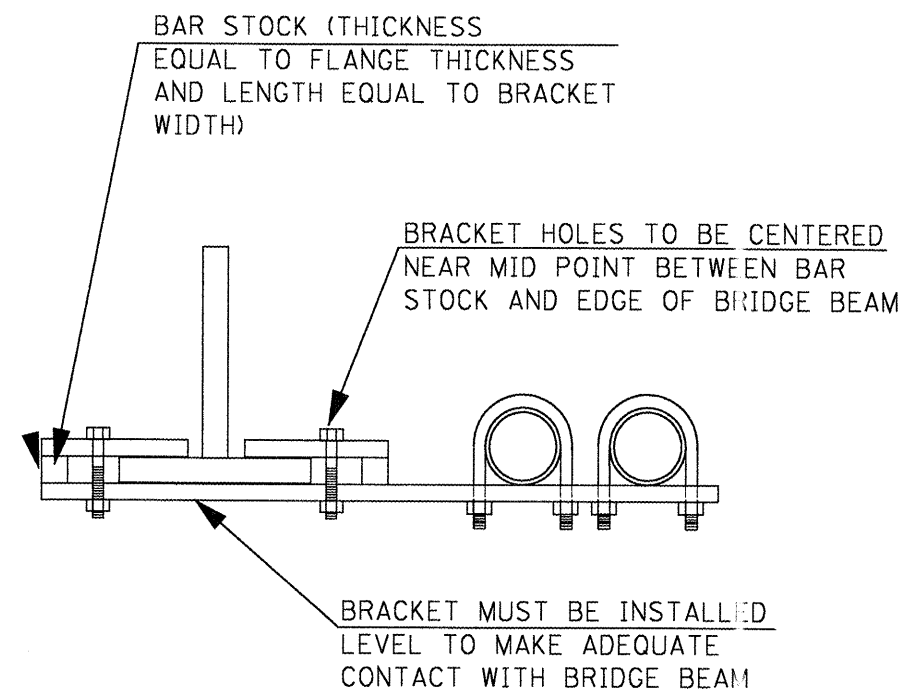
2" GALVANIZED STEEL CONDUIT

1/2" STAINLESS STEEL BOLTS TYP.

3.00" X .375 GALVANIZED STEEL BAR LENGTH AS REQUIRED

8 FT. MAX SPACING BETWEEN BRACKETS TYP. (CENTER TO CENTER)

CONDUIT ATTACHMENT ON SUPERSTRUCTURE BOX BEAM



BAR STOCK (THICKNESS EQUAL TO FLANGE THICKNESS AND LENGTH EQUAL TO BRACKET WIDTH)

BRACKET HOLES TO BE CENTERED NEAR MID POINT BETWEEN BAR STOCK AND EDGE OF BRIDGE BEAM

BRACKET MUST BE INSTALLED LEVEL TO MAKE ADEQUATE CONTACT WITH BRIDGE BEAM

NOTES: CONDUIT ATTACHMENT ON APPROACH SPANS.

1. THE CONTRACTOR SHALL VERIFY AND FINALIZE ALL BRACKET DIMENSIONS. THE BRACKETS SHALL BE COMPATIBLE WITH EXISTING FIELD CONDITIONS.
2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ENSURING THAT THE BRACKET DIMENSIONS ARE CORRECT PRIOR TO RELEASING THE BRACKETS FOR PRODUCTION.
3. THE CONTRACTOR SHALL CONSTRUCT PROTOTYPE BRACKETS AND INSTALL THEM ON THE STRUCTURE TO VERIFY FIT PRIOR TO RELEASE.
4. ALL HARDWARE SHALL BE 1/2" DIAMETER STAINLESS STEEL (GRADE 18-8/304).
5. THE CONTRACTOR SHALL UTILIZE LOCK WASHERS WITH ALL NUTS.
6. THE CONTRACTOR SHALL UTILIZE THREAD LOCKER ON ALL THREADED CONNECTIONS.
7. ALL BRACKET COMPONENTS SHALL BE FULLY HOT DIPPED GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS (AASHTO M 111).
8. THERE WILL BE NO ADDITIONAL COMPENSATION FOR MINOR ADJUSTMENTS TO THE CONDUIT MOUNTING BRACKETS THAT ARE REQUIRED FOR COMPATIBILITY WITH EXISTING FIELD CONDITIONS.
9. THE CONTRACTOR SHALL SUBMIT A COMPLETE PACKAGE (INCLUDING CONDUIT BRACKETS, HARDWARE, ATTACHMENT POINTS, ATTACHMENT METHODS, ETC.) TO THE DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WORK.

FILE NAME =	USER NAME = howald	DESIGNED -	REVISED -
68069 - I-474 Shade Lohmann Bridge CCTV	Surveillance - Final 2-7-11.dgn	DRAWN -	REVISED -
	PLOT SCALE = 100.000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 2/7/2011	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-474 SHADE LOHMANN BRIDGE CCTV SURVEILLANCE
CONDUIT BRACKET DETAIL**

SCALE: _____ ITS SHEET NO. 9 OF 16 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
474	(172.90)5B31-2	PEOR	129	102
CONTRACT NO. 68069			ILLINOIS FED. AID PROJECT	