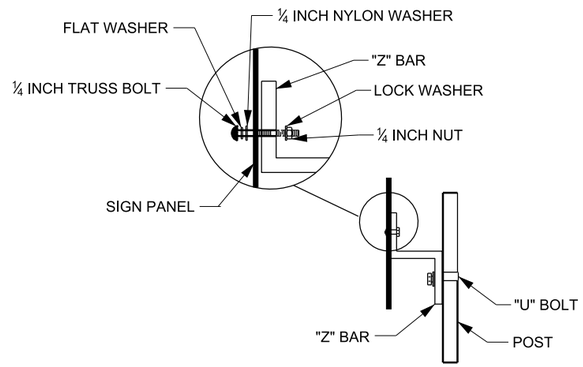
ATTACHMENT TO POST WITH "Z" BAR AND "U" BOLT

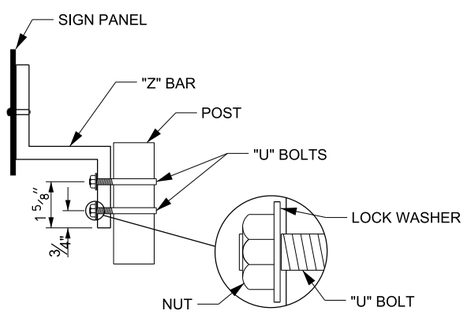
FOR SIGN PANEL 36 INCH WIDE



1. USE THIS INSTALLATION WHEN SIGN IS ON A SINGLE POST WITH MULTIPLE "Z" BARS.
2. USE A LONG U-BOLT. REFER TO STD DWG SN 13B FOR "U" BOLT REQUIREMENTS.
3. STAINLESS STEEL POP-RIVETS MAY BE SUBSTITUTED FOR TRUSS BOLT.

ATTACHMENT TO POST - SINGLE "Z" BAR AND DOUBLE "U" BOLT

FOR SIGN PANELS WITH 24 INCH HEIGHT OR LESS

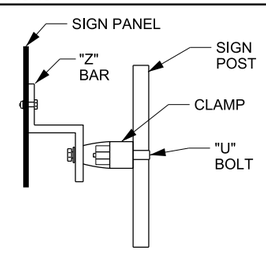


1. USE THIS INSTALLATION WHEN SIGN PANEL HAS ONLY ONE "Z" BAR AND IS ATTACHED TO A SINGLE PANEL.
2. USE TWO LONG "U" BOLTS. REFER TO STD DWG SN 13B FOR "U" BOLT REQUIREMENTS.

ATTACHMENT TO POST WITH "Z" BAR AND CLAMP

FOR DOUBLE POST APPLICATIONS

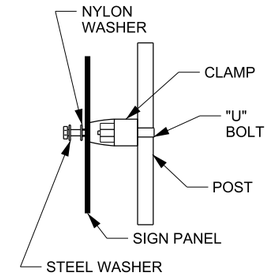
"Z" BAR AND SADDLE REQUIRED WHEN SIGN IS MOUNTED ON DOUBLE POSTS.



ATTACHMENT TO POST WITH CLAMP

FOR SIGN PANEL 30 INCH WIDE OR LESS

1. USE WITH P3, P4, AND P5 POSTS ON A SINGLE POST. DO NOT USE WITH MULTIPLE POSTS.
2. REFER TO STD DWG SN 13B FOR CLAMP AND HARDWARE REQUIREMENTS.



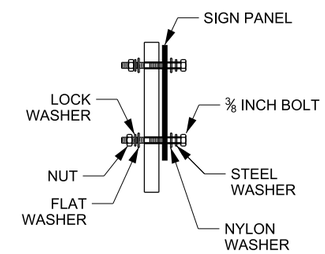
SIGN PANEL TO POST DIRECT CONNECTION

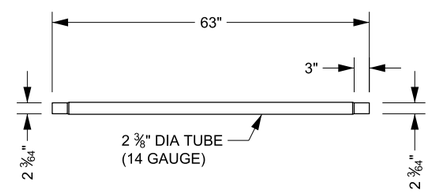
FOR SIGN PANEL 30 INCH WIDE OR LESS WITH PREPUNCHED POST

BOLT & WASHER REQUIREMENTS

1. USE WITH P1 AND P2 POSTS.
2. HARDWARE:
   - ⅜ x 3 INCH LONG BOLT
   - ⅜ INCH DIA HEX HEAD BOLT WITH NUT
   - ⅜ INCH DIA STEEL FLAT WASHER
   - ⅜ INCH DIA STEEL LOCK WASHER
   - ⅜ INCH DIA NYLON WASHER
3. GALVANIZE ALL STEEL COMPONENTS EXCEPT AS NOTED.

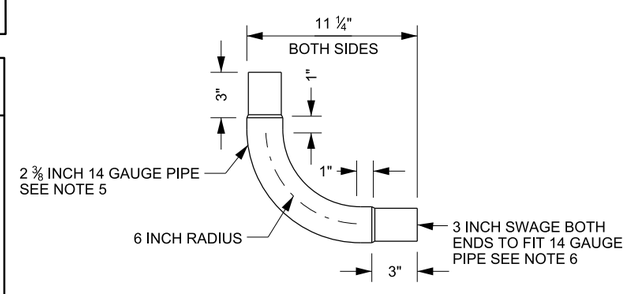
ASSEMBLY





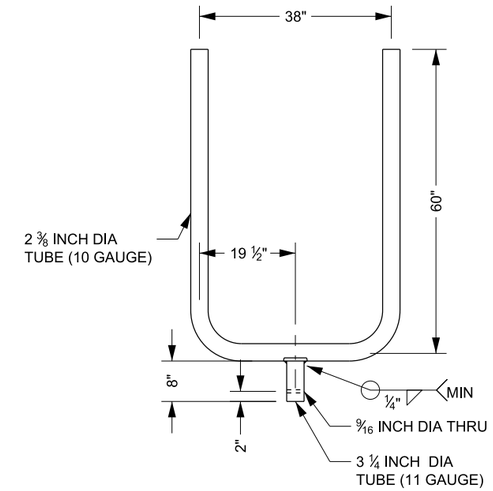
EXTENSION

SEE NOTE 4 & 7



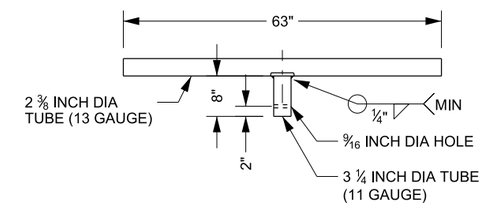
90 DEGREE POST EXTENSION

SEE NOTE 7



"U" BRACKET

SEE NOTE 7



"T" BRACKET

SEE NOTE 7

NOTES:

1. GALVANIZE PIPE TO MEET ASTM A 513.
2. COAT WELD JOINTS WITH ZINC RICH PAINT.
3. CUTTING OF "T" OR "U" BRACKET OR EXTENSION TO MEET REQUIRED LENGTH OR HEIGHT IS ACCEPTABLE. COAT CUT ENDS WITH ZINC RICH PAINT.
4. SWAGE ENDS OF EXTENSION TO PROVIDE A SNUG FIT IN A 2 ⅜ INCH DIA (10 BWG) TUBING.
5. 2 ⅜ INCH DIA 14 BWG TUBING PER ASTM A 787 AWG FABRICATED FROM GALVANIZED STEEL SHEET 0.083 INCH THICK, ASTM A 653 SS GRADE G90. REMETALIZE WELD SEAM USING ZINC WIRE ACCORDING TO ASTM B 833. TUBE OD WILL BE TREATED WITH CHROMATE CONVERSION SOLUTION AND PROTECTED WITH CLEAR ACRYLIC FILM.
6. BEND 90 DEGREES AND SWAGE 3 INCH ON BOTH ENDS. SWAGE TO BE 1 INCH FROM TANGENT POINT OF BEND RADIUS TO SHOULDER OF SWAGE. SWAGE TO FIT SNUG IN 14 GAUGE PIPE.
7. REFER TO SN 13C SERIES STD DWGS FOR USE REQUIREMENTS OF BRACKETS AND EXTENSIONS.
8. GAUGE IS BIRMINGHAM WIRE GAUGE (BWG).

SUPPLEMENTAL DRAWING

REVISIONS

NO.	DATE	APPR.	REMARKS
1	10/31/2013	MD	CHANGED SN 10 TO SN 13C IN NOTE 7. ADDED ITEM 3 TO TOP LEFT DETAIL.

UTAH DEPARTMENT OF TRANSPORTATION

STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION
SALT LAKE CITY, UTAH

RECOMMENDED FOR APPROVAL — OCT. 31,2013 DATE

CHAIRMAN STANDARDS COMMITTEE APPROVED — OCT. 31,2013 DATE

DEPUTY DIRECTOR

STANDARD DRAWING TITLE: TUBULAR STEEL SIGN MOUNTING REQUIREMENTS

STD. DWG. NO. SN 13A

DGN File:L:\Standard Drawings\Imperial\2012Approved_Supplemental Issues\Sup7Approved\SN13A.dgn
20-NOV-2013