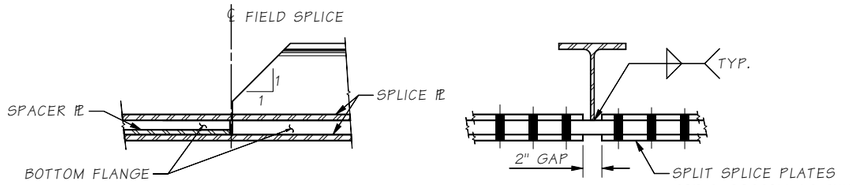
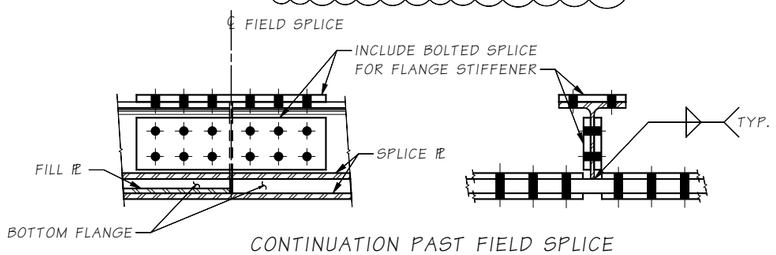


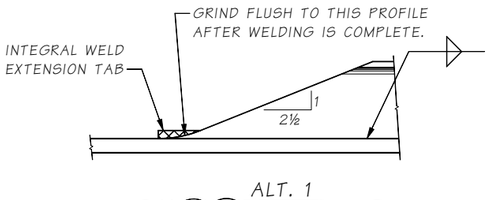
TERMINATION AT FIELD SPLICE

THIS IS THE PREFERED TERMINATION METHOD



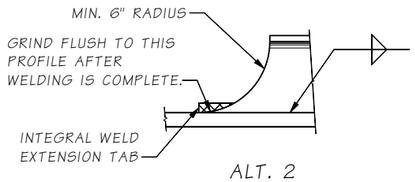
CONTINUATION PAST FIELD SPLICE

BOTTOM FLANGE STIFFENER TERMINATION DETAILS



ALT. 1

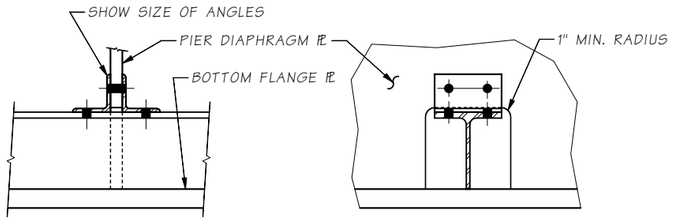
USE WHERE TERMINATION OCCURS IN REGION OF HIGH STRESS RANGE (AVOID IF POSSIBLE)



ALT. 2

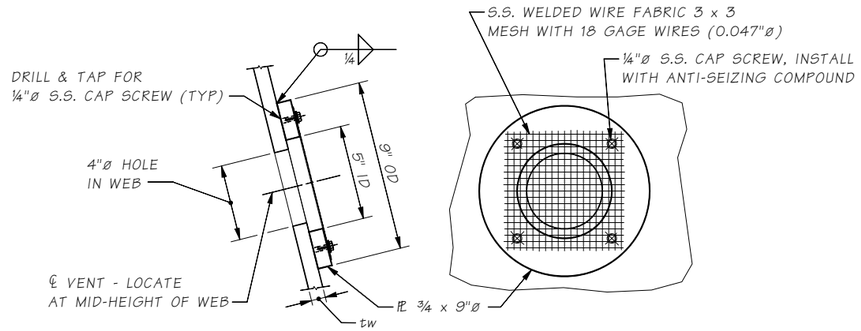
USE WHERE STRESS RANGE IS LOW (CATEGORY C DETAIL)

BOTTOM FLANGE STIFFENER TERMINATIONS BEYOND FIELD SPLICE



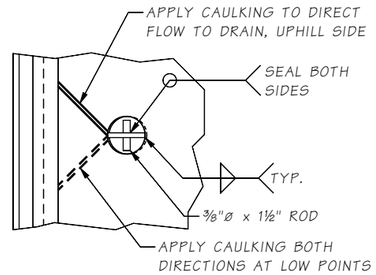
STIFFENER DETAIL AT PIER DIAPHRAGM

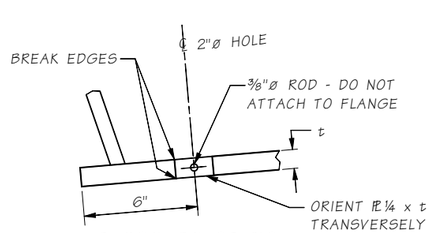
BEARING NOT SHOWN THIS DETAIL - LOCATE BRG STIFFENERS TO CLEAR



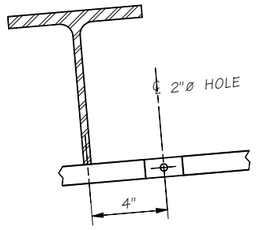
VENT HOLE DETAILS

SHOW LOCATIONS OF VENT HOLES ON "GIRDER ELEVATION"
SPACE VENTS AT ABOUT 50 FT. CENTERS, STAGGER LT & RT





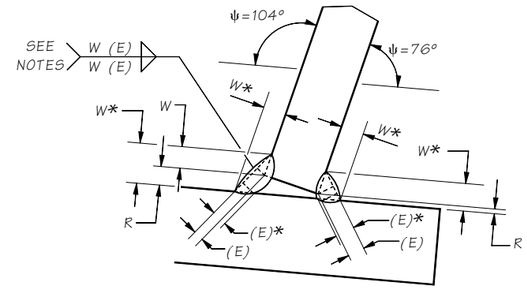
AT CORNER OF BOX



AT STIFFENERS

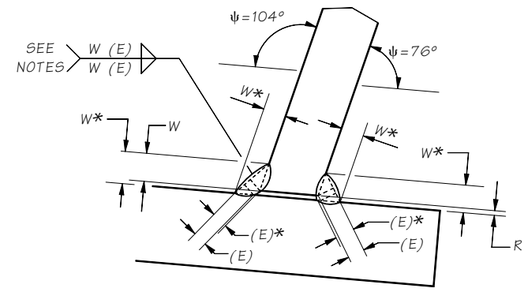
DRAIN HOLE DETAILS

SHOW ALL LOW POINTS IN BRIDGE TO LOCATE DRAINS
DO NOT USE WHERE OTHER FEATURES DRAIN WATER



DETAIL FOR WEBS < ¾"

ACCEPTABLE PROVIDED ROOT OPENINGS MEET AWS D1.5 FIT-UP REQUIRMENTS & EFFECTIVE THROAT IS MAINTAINED FOR SINGLE PASS WELDING



WEB-TO-FLANGE WELD DETAILS

* REFER TO AWS D1.5 FIG. 2.3, SECT. 3.3.1, AND ANNEX II FOR SKEWED T-JOINTS BOTTOM FLANGE SHOWN, TOP SIMILAR

NOTES: W IS NORMALLY 5/16" AND SHOULD BE SIZED BY THE DESIGNER

EFFECTIVE THROAT (E) SHOULD BE DETERMINED BY THE DESIGNER, NORMALLY ¼" MINIMUM. THIS DIMENSION MUST BE ACHIEVED IN PRODUCTION.

THE FABRICATOR MUST COMPENSATE ACTUAL WELD SIZES W AND (E) FOR ROOT (R) AND DIHEDRAL ψ ASSUMING 5/16" WELD SIZE, $W^* = 0.27" + R$; $\psi = 76°$
$W^* = 0.35" + R$; $\psi = 104°$

REDUCTION OF WELD LEG SIZE IS ACCEPTABLE PROVIDED ACTUAL EFFECTIVE THROAT IS DETERMINED BY JOINT QUALIFICATION

SINGLE, CONTINUOUS PASS WELDING IS DESIRED

WELD SYMBOL IN PLANS SHOULD ONLY SHOW W & (E), WITH A NOTE TO CORRECT PER AWS D1.5

LAST REVISED 12-11-2014

SR ____ JOB NO. ____ SHEET ____

6.4-A13

Bridge Design Engr.	M:\STANDARDS\Structural Steel\S64-A13.MAN				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor					10	WASH			
Designed By									
Checked By					JOB NUMBER				
Detailed By									
Bridge Projects Engr.									
Prelim. Plan By									
Architect/Specialist	DATE	REVISION	BY	APP'D					

BRIDGE AND STRUCTURES OFFICE

Washington State Department of Transportation

EXAMPLE - BOX GIRDER MISCELLANEOUS DETAILS

BRIDGE SHEET NO.

SHEET OF SHEETS

Thu Jan 15 09:04:59 2015