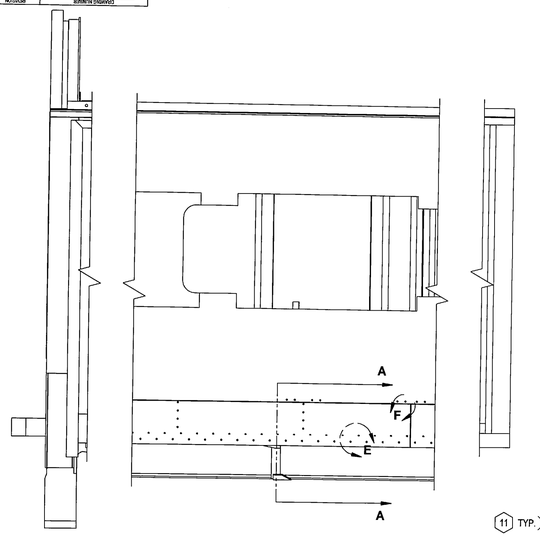
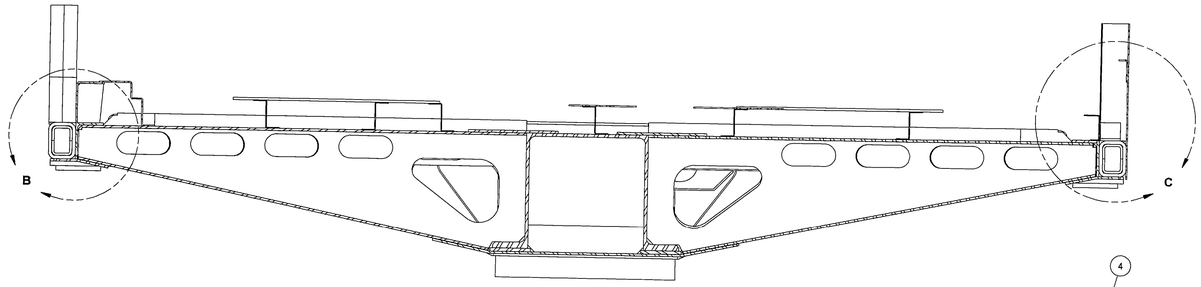
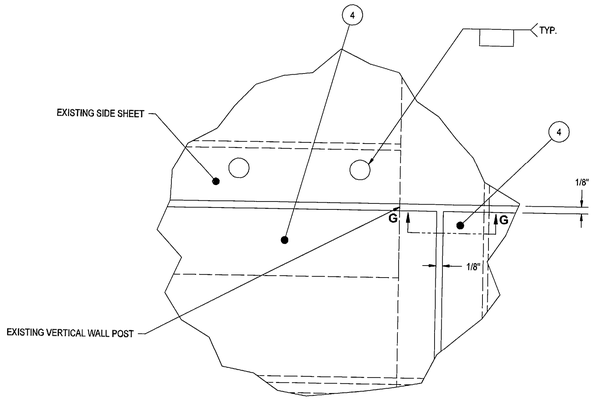
DRAWING NUMBER	REVISION
09053-A007	

ASSEMBLY LIST				
ITEM	QTY./ASSY.	DESCRIPTION	REF. DRAWING	PART NO.
1	2	SIDE SILL TUBE WELDMENT	09053-A009	A009-A
2	19	VERTICAL WALL POST FILLER BAR	09053-S008	S008-01
3	65	VERTICAL WALL POST FILLER BAR	09053-S008	S008-02
4	AS REQ'D	SIDE SHEET REPLACEMENT	09053-S009	S009-01
5	84	SIDE SHEET SEAM REINFORCEMENT	09053-S010	S010-01
6	84	VERTICAL WALL POST ANCHOR	09053-S011	S011-01
7	AS REQ'D	SIDE SILL ZEE WEB REPLACEMENT	09053-S012	S012-01

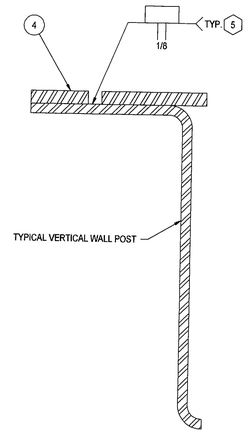




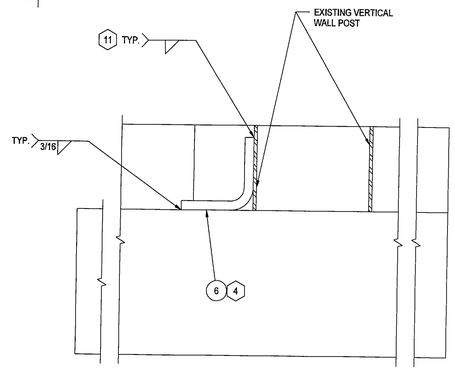
SECTION "A-A"



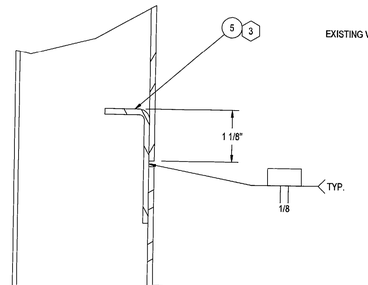
DETAIL "F"

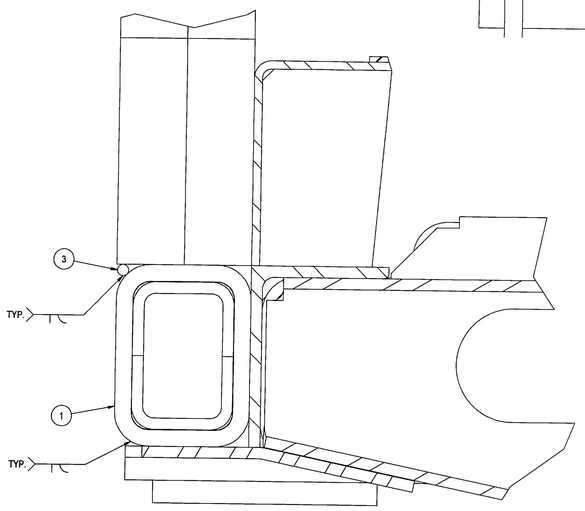


SECTION "G-G"
(ENLARGED)

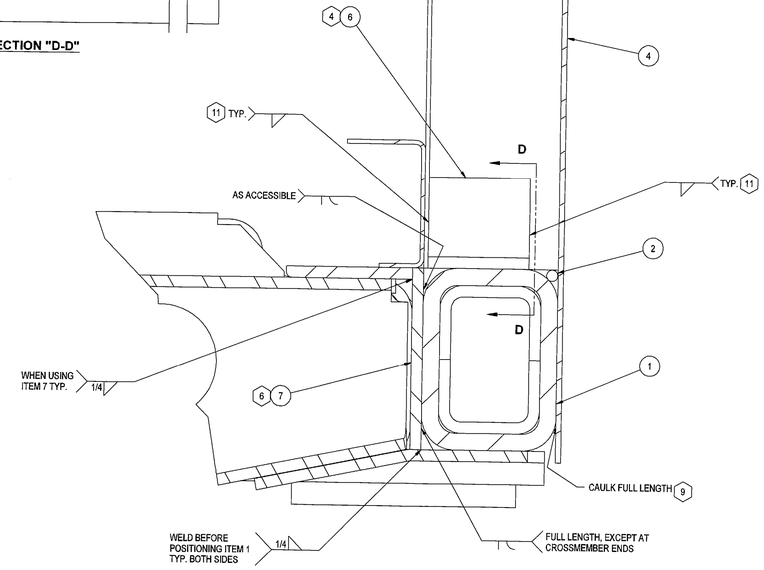


SECTION "D-D"

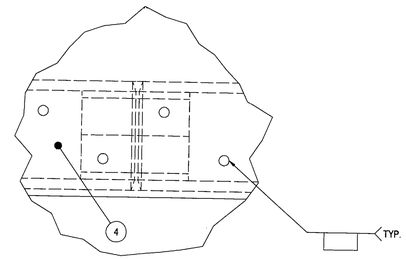




DETAIL "B"



DETAIL "C"



DETAIL "E"

NOTES:

1. SOME DETAILS NOT SHOWN FOR CLARITY.
2. APPLICATION IS TYPICAL FOR ALL VERTICAL WALL POSTS.
3. APPLY ONLY ONE REINFORCEMENT SHEET (ITEM 5) BETWEEN EVERY VERTICAL WALL POST WITH THE EXCEPTION OF THE DOORWAY.
4. APPLY ONLY ONE VERTICAL WALL POST ANCHOR (ITEM 6) TO EACH VERTICAL WALL POST ON THE FULLY EXPOSED SIDE OF THE POST. REFER TO STARFIRE DWG. #09053-S011 FOR CHAMFER DETAILS.
5. PER WELDING CALL OUT, REPLACEMENT SIDE SHEET (ITEM 4) SHALL BE CUT TO LENGTH TO ACCOMODATE WELD SEAM AT VERTICAL POST.
6. APPLY SIDE SILL ZEE WEB REPLACEMENT (ITEM 7) AND CUT TO LENGTH AS NEEDED. REFER TO STARFIRE DWG. #09053-M004.
7. PRIOR TO APPLICATION OF INSULATION AND OF REPLACEMENT SIDE SHEET, APPLY RUST-PROOFING TO ALL EXPOSED MEMBERS AND SHEETING THAT WILL BE COVERED BY THE REPLACEMENT SIDE SHEET, ENSURING COMPLETE COVERAGE.
8. USE A LOW HYDROGEN ELECTRODE GREATER THAN OR EQUAL TO E701X.
9. USE PREMIUM GRADE WATERPROOF SILICONE CAULK OR EQUIVALENT. APPLY JUST PRIOR TO PAINTING OR PER MANUFACTURER'S INSTRUCTIONS.
10. VERTICAL WALL POST REPLACEMENT MUST BE COMPLETED PRIOR TO THE REPLACEMENT OF THE SIDE SILL COMPONENTS. SEE STARFIRE DRAWING #09053-A008.
11. WHERE NOTED, WELD THICKNESS WILL BE EQUAL TO THE THICKNESS OF WALL POST TO WHICH THE WALL POST ANCHOR (ITEM 6) IS BEING WELDED.

REV	DATE	DESCRIPTION	REV BY	CHKD BY

THIS DRAWING IS ISSUED WITH THE EXPRESS AGREEMENT THAT THIS DRAWING AND THE INFORMATION CONTAINED HEREIN ARE THE JOINT PROPERTY OF STARFIRE ENGINEERING, INC. AND THE CUSTOMER AND SHALL NOT BE DISCLOSED, P ARTLY OR WHOLLY, COPIED, OR OTHERWISE REPRODUCED FOR THE TITLEBLOCK, IF ANY, AND WILL NOT BE REPRODUCED OR PUT TO ANY USE WHATSOEVER EXCEPT AS TO EACH CASE. THE ACCEPTANCE AND POSSESSION OF THIS DRAWING WILL BE ON PART TO ASSIST IN MAKING USE TO PUBLISH ANY INFORMATION FOR THE MAKING OF APPARATUS OR PARTS THEREOF, PRINTS OR OTHER REPRODUCTION HEREOF, OR FOR THE MAKING OF APPARATUS OR PARTS THEREOF FOR SALE TO ANY PERSON OTHER THAN THE CUSTOMER OF STARFIRE ENGINEERING, INC. OR THE CUSTOMER SO NAMED IN THE TITLEBLOCK, IF ANY, FIRST OBTAINED AND SPECIFIC AS TO EACH CASE. THE ACCEPTANCE AND POSSESSION OF THIS DRAWING WILL BE CONSTRUED AS AN ACCEPTANCE OF THE FOREGOING AGREEMENT.

THIS DRAWING IS NOT VALID UNLESS IT CONTAINS THE APPROVING INITIALS OF A STARFIRE ENGINEER IN THE APPROVED BY BLOCK. DRAWING MODIFICATIONS ARE NOT AUTHORIZED BY STARFIRE ENGINEERING, INC. THIS DRAWING IS FURTHER NOT VALID UNLESS USED IN CONJUNCTION WITH ALL PART, ASSEMBLY, MODIFICATION DRAWINGS REFERENCED BY THIS DRAWING.

TOLERANCES DO NOT ACCUMULATE AND UNLESS OTHERWISE NOTED:
LINEAR ± 1/16", ANGULAR ± .25°

SYMBOL LEGEND: ◇ ASSEMBLY ○ ITEM △ REVISION ⬡ NOTE

DRAWN	GRAPHIC CK	PROJECT
zcbrown	EAP	P09E-053
ENGINEER CK	APPROVED	DATE
		3/26/2012

CORROSION REPAIR, SIDE SILL REPLACEMENT

CUSTOMER: ERIX RAILCAR, ERIC HOPP

GREAT NORTHERN 1146 RESTORATION STRUCTURAL ENGINEERING SUPPORT (800959)

STARFIRE ENGINEERING, INC.
1421 REGENCY PARK DRIVE, SUITE 2A
LAWRENCE, KANSAS 66049
785-842-1111 785-842-9811 FAX

SCALE	SHEET	DRAWING NUMBER	REVISION
NO SCALE	1 OF 1	09053-A007	

SIZE: D

DRAWING NUMBER: 09053-A007.dwg

TEMPLATE: Starfire 2-2009.dwt

PRINTED: Jul 12, 2012