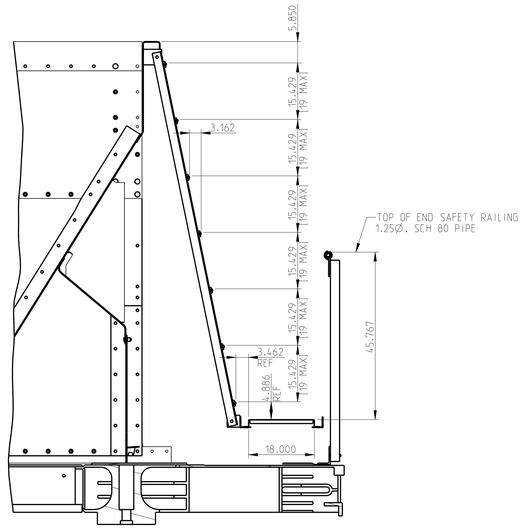
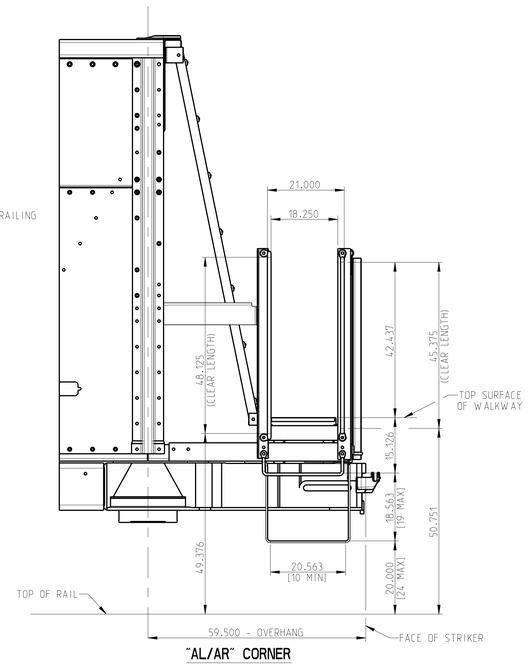
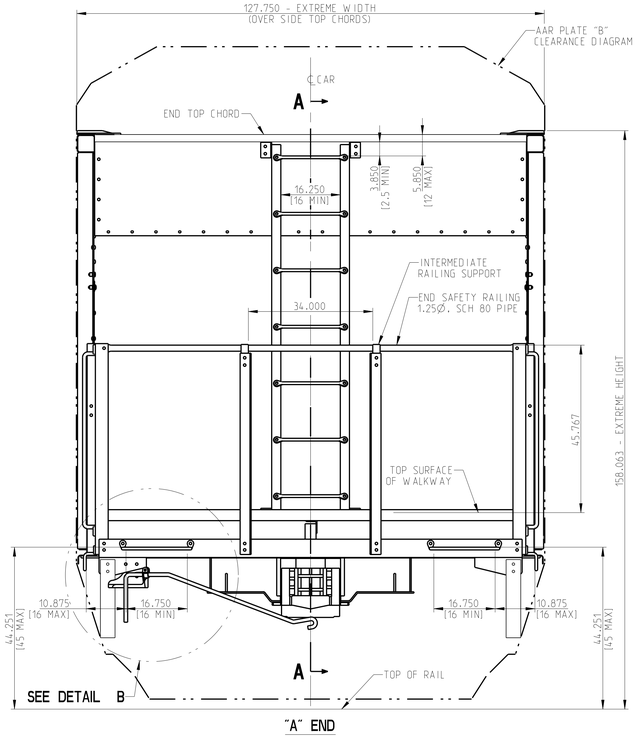


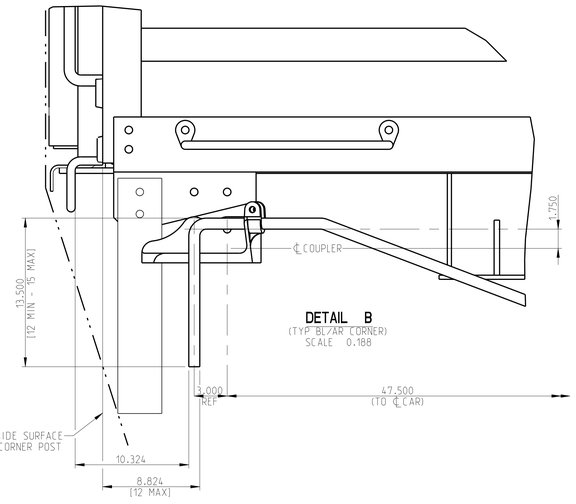
SECTION A-A



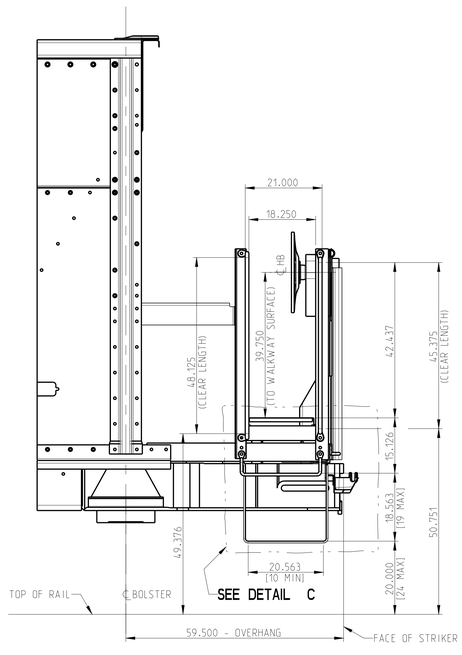
"AL/AR" CORNER



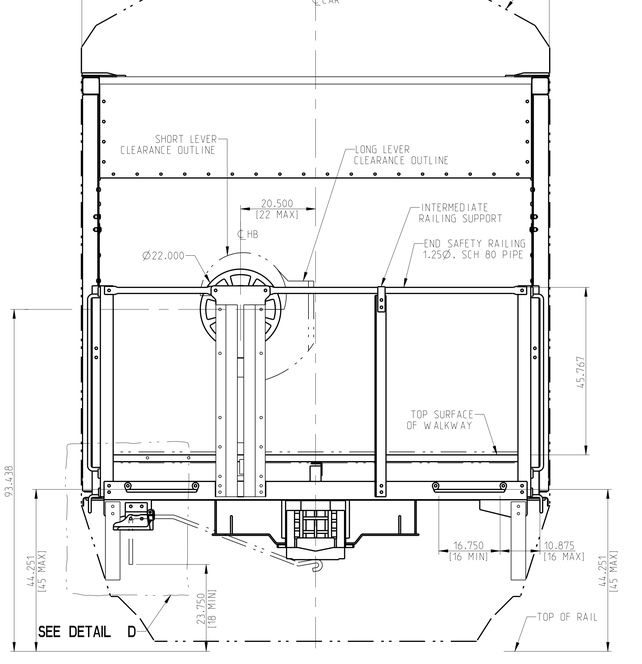
"A" END



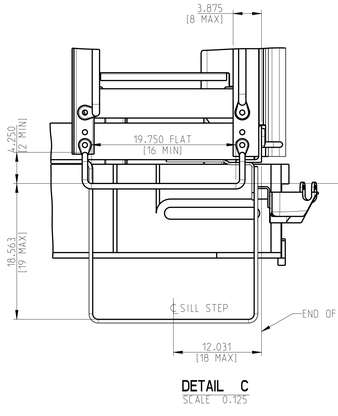
DETAIL B
(TYP BL/AR CORNER)
SCALE 0.188



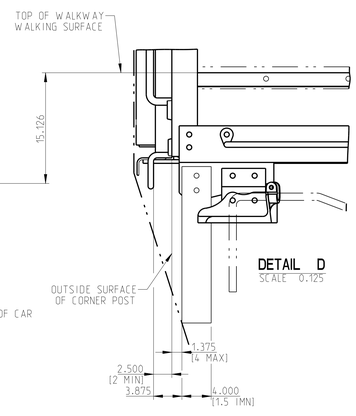
"BL/BR" CORNER



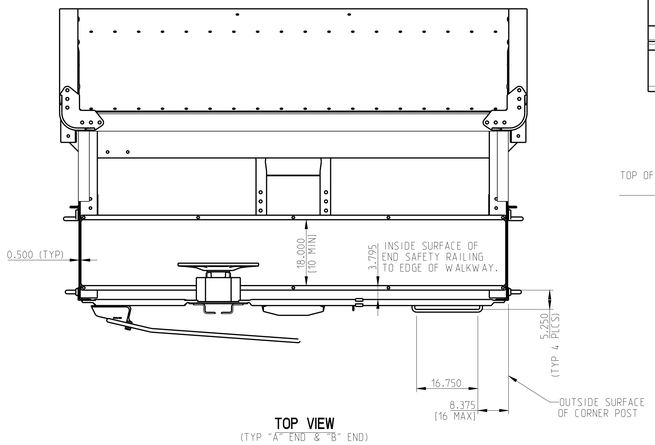
"B" END



DETAIL C
SCALE 0.125



DETAIL D
SCALE 0.125



TOP VIEW
(TYP "A" END & "B" END)

NOTE:

1. CAR CONSTRUCTION IS SUBMITTED FOR FRA APPROVAL AS A "CAR OF SPECIAL CONSTRUCTION", 231.18. CAR CONSTRUCTION CLOSELY RESEMBLES "HOPPER CARS AND HIGH SIDED GONDOLAS WITH FIXED ENDS", 231.2. HOWEVER CUSTOMER HAS REQUESTED A CROSSOVER RUNNING BOARD ON BOTH ENDS WITH END LADDER ON "A" END. THIS CAR CONSTRUCTION IS NEAREST TO BOX AND OTHER HOUSE CARS WITHOUT ROOF HATCHES." 231.27.
2. DIMENSIONS NOTED WITH [ ] ARE PER RAILROAD SAFETY APPLIANCE STANDARDS. ALL OTHER DIMENSIONS ARE REFERENCE.
3. VERTICAL HANDHOLDS CONSTRUCTED OF Ø1.000 STEEL BAR.
4. HORIZONTAL HANDHOLDS AND LADDER TREADS CONSTRUCTED OF Ø0.750 STEEL BAR.
5. SILL STEPS CONSTRUCTED OF 0.500 X 4.000 STEEL BAR.
6. ALL SAFETY APPLIANCES FASTENED TO CAR BODY USING Ø0.625 LOCK BOLTS EXCEPT WALKWAYS. WALKWAY PLATFORMS FASTENED TO CAR BODY USING Ø0.500 STANDARD BOLTS. TACK WELDED.
7. HORIZONTAL END SAFETY RAILINGS CONSTRUCTED OF Ø1.25 SCHEDULE 80 STEEL PIPE.

Level	Date	Approved	Description
A	01-10-13	JWB	UPDATED CAR DESIGN.

REVISIONS

FreightCar America

Standard Tolerances (Unless Noted)

Decimal Dimensions ± 0.063	Hole Diameters ± 0.031
Diagonals 0.125 Max. Variation	Angles ± 1°
Radii will be thickness of material	Tolerances are not accumulative
Made By: MHK	Date: 12-21-12
Approved: JWB	Do Not Scale Drawing
Ref Dwg: A108830-000	
Est. Wt: N/A	

ARRANGEMENT, SAFETY APPLIANCE

Sheet	Size	Drawing / Part Number	Rev.
1 of 1	E	A108950-000	A