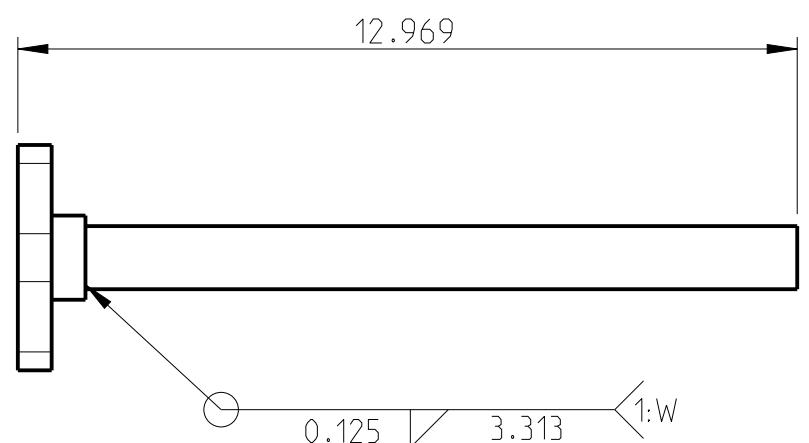
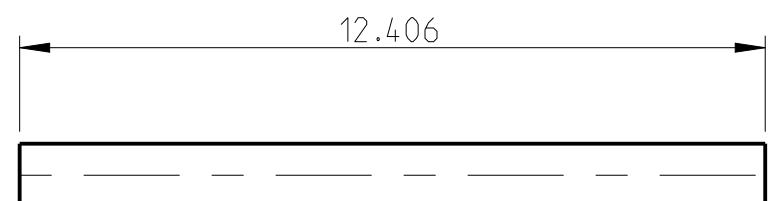


# BILL OF MATERIAL

Item No.	Part No.	Description	Quantity	Unit Length
1	10240-067	FITTING, 3/4" STRT SWV FLG SW, GG	1	
2	10260-004	PIPE, 0.75Ø, EXTRA HEAVY	1	12.406



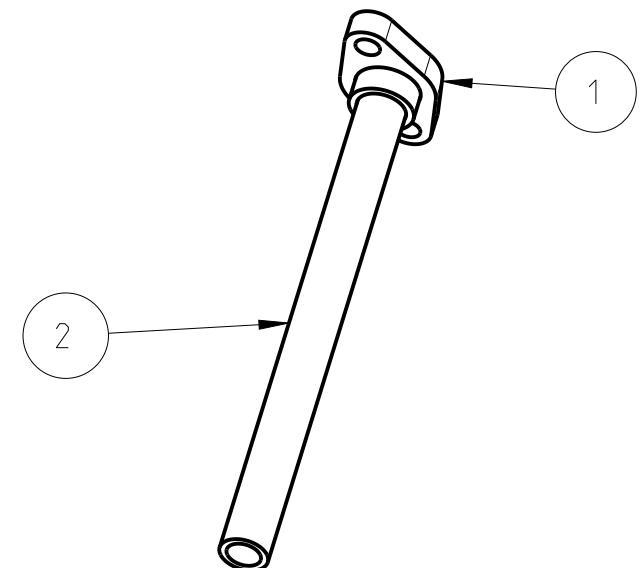
**PIPE ASSEMBLY**  
ORIENTED FOR TRUE DIMENSIONING



**PIPE DETAIL**  
ORIENTED FOR TRUE DIMENSIONING

**NOTE:**

1. UNLESS OTHERWISE NOTED, WELD LENGTHS SHOWN ARE MINIMUM LENGTHS, WELD TERMINATIONS MUST HAVE A MINIMUM EDGE DISTANCE OF 0.25.
2. ALL WELDING TO BE IN ACCORDANCE WITH RAILROAD WELDING SPECIFICATION AWS D15.1, LATEST REVISION, AND TO BE CLASS 2 UNLESS OTHERWISE SPECIFIED.
3. PIPE DIMENSIONS ARE FOR REFERENCE ONLY, MANUFACTURING TO DETERMINE FINAL ASSEMBLY DIMENSIONS.



Level	Date	Approved	Description
<b>REVISIONS</b>			

**FreightCar  
America**

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF FREIGHTCAR AMERICA AND CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION. BY ACCEPTING THIS DRAWING, THE RECIPIENT AGREES (A) TO USE THIS DRAWING ONLY FOR THOSE PURPOSES APPROVED IN WRITING BY FREIGHTCAR AMERICA, (B) NOT TO REPRODUCE OR MODIFY THIS DRAWING, IN WHOLE OR IN PART, AND (C) NOT TO DISCLOSE THIS DRAWING TO ANY PERSON OR ENTITY, NOR USE THE DRAWING FOR THE DESIGN OR MANUFACTURE OF ANY ITEM, PART, OBJECT OR APPARATUS THEREOF, EXCEPT UPON THE PRIOR WRITTEN PERMISSION OF FREIGHTCAR AMERICA.

**Standard Tolerances (Unless Noted)**

Decimal Dimensions $\pm 0.063$	Hole Diameters $\pm 0.031$
Diagonals 0.125 Max. Variation	Angles $\pm 1^\circ$
Radii will be thickness of material	Tolerances are not accumulative

Made By: GJF/RLL Date: 08-17-16 Ref Dwg: -

Approved: GJF *GJF* Do Not Scale Drawing Est. Wt: 2.27 lbs

**ASSEMBLY, #5 PORT TO RES TEE**

Size	Drawing / Part Number	Rev.
B	A113312-000	-