



TRACTOR & TRAILER, MOFFETT & ACCESSORIES WEIGHT DISTRIBUTION, <u>NO PAYLOAD ON TRAILER.</u>	
TOTAL WEIGHT ON FRONT AXLE	= 9,000 LBS.
TOTAL WEIGHT ON TRACTOR TANDEM	= 10,510 LBS.
TOTAL WEIGHT ON TRAILER TANDEM	= 15,690 LBS.
GROSS COMBINATION WEIGHT	= 35,200 LBS.

TRACTOR & TRAILER, MOFFETT & ACCESSORIES WEIGHT DISTRIBUTION, <u>WITH PAYLOAD ON TRAILER.</u>	
TOTAL WEIGHT ON FRONT AXLE	= 9,000 LBS.
TOTAL WEIGHT ON TRACTOR TANDEM	= 34,000 LBS.
TOTAL WEIGHT ON TRAILER TANDEM	= 34,000 LBS.
PAYLOAD AS SHOWN - 32' AREA	= 41,800 LBS.
GROSS COMBINATION WEIGHT	= 77,000 LBS.

TRACTOR SPECIFICATIONS	
TRACTOR MODEL	= FREIGHTLINER M2-112
WHEELBASE	= 154"
CAB TO TANDEM	= 88 1/2"
AXLE-TO-FRAME	= 55"
FRONT AXLE CURB WEIGHT	= 9,000 LBS.
REAR AXLE CURB WEIGHT	= 8,000 LBS.
FRONT G.A.W.R.	= 12,000 LBS.
REAR G.A.W.R.	= 40,000 LBS.

**NOTES:**  
TRACTOR AND TRAILER CURB WEIGHTS ARE ESTIMATED.  
TOTAL TRAILER WEIGHT AND TRAILER TANDEM WEIGHT REQUIRED FOR AN ACCURATE CALCULATION.

\*WATER LEVEL PAYLOAD = 32,050 LBS.

TRACTOR TRAILER COMBINATION RUNS IN US (RULES FOR MOST STATES).  
12,000 LBS. ALLOWED ON FRONT AXLE GAWR.  
34,000 LBS. ALLOWED ON TANDEM.  
47,000 LBS. ALLOWED ON GROSS WEIGHT OF TRACTOR.  
68,000 LBS. ALLOWED FOR FEDERAL BRIDGE (39' - TRAILER).  
79,000 LBS. MAX. GROSS COMBINATION WEIGHT.  
\*MAXIMUM TRAILER LENGTH = 53'-0".  
MAXIMUM OVERALL LENGTH = NO LIMIT WITH LEGAL TRAILER.

TRAILER SPECIFICATIONS	
YIELD STRENGTH OF EACH STEEL I-BEAM	MINIMUM SECTION MODULUS REQUIRED
80,000 P.S.I. YIELD	= 31.10 in. <sup>3</sup>
100,000 P.S.I. YIELD	= 24.88 in. <sup>3</sup>
120,000 P.S.I. YIELD	= 20.74 in. <sup>3</sup>
MINIMUM RBM/I-BEAM OF 2,488,290 IN-LBS	

**NOTICE:**  
THE DRAWING PURPOSE IS TO INTRODUCE A GENERAL CONCEPT OF A PROPOSED IDEA.

**NOTICE:**  
THIS WEIGHT DISTRIBUTION IS BASED ON ESTIMATED WEIGHTS AND IS ONLY AS ACCURATE AS THOSE ESTIMATES. ACTUAL WEIGHTS MAY CHANGE THE RESULTS OF THIS WEIGHT DISTRIBUTION.

**Cargotec USA**  
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Tolerances - unless otherwise noted.  
2-PLACE ±.000... .05  
3-PLACE ±.000... .015  
ANGULAR ± .....1/16"  
FRACTIONAL ± .....1/16"  
Break all sharp corners unless otherwise specified.

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Next Assy.  
Dwg/Cad file no.  
**MOFFETT / SALES**

Drawing Title:  
**MOFFETT M55 BS, 10' MAST**

Project Name:  
**SALES LAYOUT**

Drawn by: **EJM** Date: **6-15-16** Size: **N/A** Part No.  
Approval: **EJM** Date Approved: **6-15-16** Scale: **N/A** unit wt. Eng. Job no.: