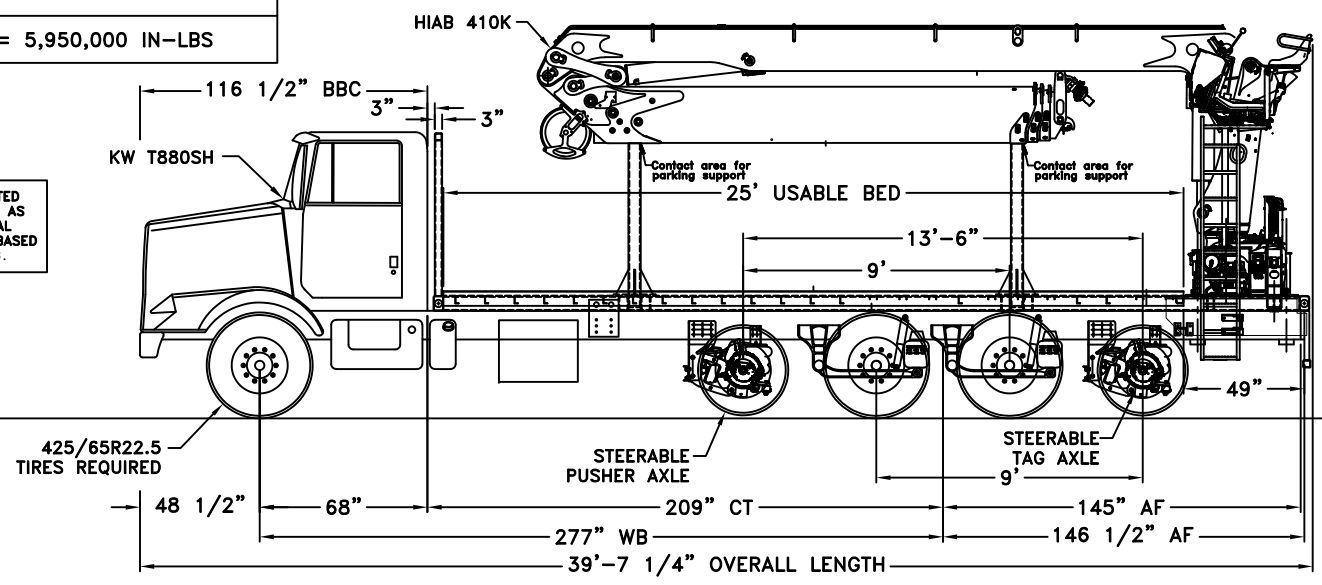


YIELD STRENGTH  
120,000 P.S.I. YIELD

CRANE MINIMUM SECTION MODULUS REQUIRED  
= 49.58 in.<sup>3</sup>

CRANE MIN. RBM/RAIL = 5,950,000 IN-LBS



CRANE MAY BE DERATED IN FRONT QUADRANTS AS MUCH AS 50%. ACTUAL DERATING SHALL BE BASED ON PHYSICAL TESTING.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, NO PAYLOAD, LIFT AXLES UP.	
TOTAL WEIGHT ON FRONT AXLE	= 11,900 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 33,470 LBS.
FRONT AXLE WT. PERCENTAGE	= 26 %
TANDEM AXLE WT. PERCENTAGE	= 78 %
GROSS VEHICLE WEIGHT	= 45,370 LBS.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DIST, WITH PAYLOAD, LIFT AXLES DOWN.	
TOTAL WEIGHT ON FRONT AXLE	= 17,040 LBS.
TOTAL WEIGHT ON PUSHER AXLE	= 7,000 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 31,460 LBS.
TOTAL WEIGHT ON TAG AXLE	= 11,000 LBS.
FRONT AXLE WT. PERCENTAGE	= 26 %
PUSHER AXLE WT. PERCENTAGE	= 10 %
TANDEM AXLE WT. PERCENTAGE	= 47 %
TAG AXLE WT. PERCENTAGE	= 17 %
GROSS VEHICLE WEIGHT	= 66,500 LBS.
WATER LEVEL PAYLOAD	= 21,130 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= KENWORTH T880SH
WHEELBASE	= 277"
CAB TO TANDEM	= 209"
AXLE-TO-FRAME	= 145", 146 1/2" REQ'D
FRONT TARE WEIGHT	= 11,126 LBS.
TANDEM TARE WEIGHT	= 8,976 LBS.
FRONT G.A.W.R.	= 20,000 LBS.
TANDEM G.A.W.R.	= 46,000 LBS.
YIELD STRENGTH OF EACH FRAME RAIL	MINIMUM SECTION MODULUS REQUIRED
120,000 P.S.I. YIELD	= 38.00 in. <sup>3</sup>
MINIMUM RBM/RAIL = 4,560,000 IN-LBS	

**NOTES:**  
 DOUBLE FRAME RAIL REQUIRED.  
 FRAME RAIL MINIMUM OF 38.0 SECTION MODULUS REQUIRED.  
 FULL LENGTH SUB-FRAME REQUIRED:  
 6"x4"x3/8" RECT. TUBING (ON TOP OF FRAME RAIL)  
 5"x3"x3/8" RECT. TUBING (CROSSMEMBERS EVERY 3 FT.)  
 3/8" TOP & 1/4" BOTTOM PLATE REQUIRED.  
 CURB WEIGHTS ARE PROVIDED.  
 FLATBED AND LIFT AXLE WEIGHTS ARE ESTIMATED.

TRUCK RUNS IN NORTH AND SOUTH CAROLINA.  
 20,000 LBS. ALLOWED ON FRONT AXLE.  
 35,200 LBS. ALLOWED ON TANDEM AXLE.  
 42,500 LBS. ALLOWED ON TRIDEM. (9')  
 51,500 LBS. ALLOWED ON 4 AXLE GROUP. (14')  
 66,500 LBS. ALLOWED FOR GROSS WEIGHT. (30')  
 MAXIMUM LENGTH CANNOT EXCEED 40'.

**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.

**Hiab**  
 Hiab, Inc.  
 12233 Williams Road  
 Perrysburg, Ohio 43551  
 Tel (419) 482-6000  
 Fax (419) 482-6001

Tolerance - unless otherwise noted.  
 Tolerances are in inches  
 2-PLACE 2.00 .03  
 ANGLULAR 2.000 .015  
 FRACTIONAL 2 .0001/16"

Break all sharp corners unless otherwise specified.

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Next Assy.

Dwg/Cad file no.  
**410K / SALES**

Drawing Title:  
**HAIB 410K-3**

Project Name:  
**SALES LAYOUT**

Drawn by: Date:  
**CSV 3-8-19**

Size: Part No.  
 Scale: unit wt. Eng. Job no.: