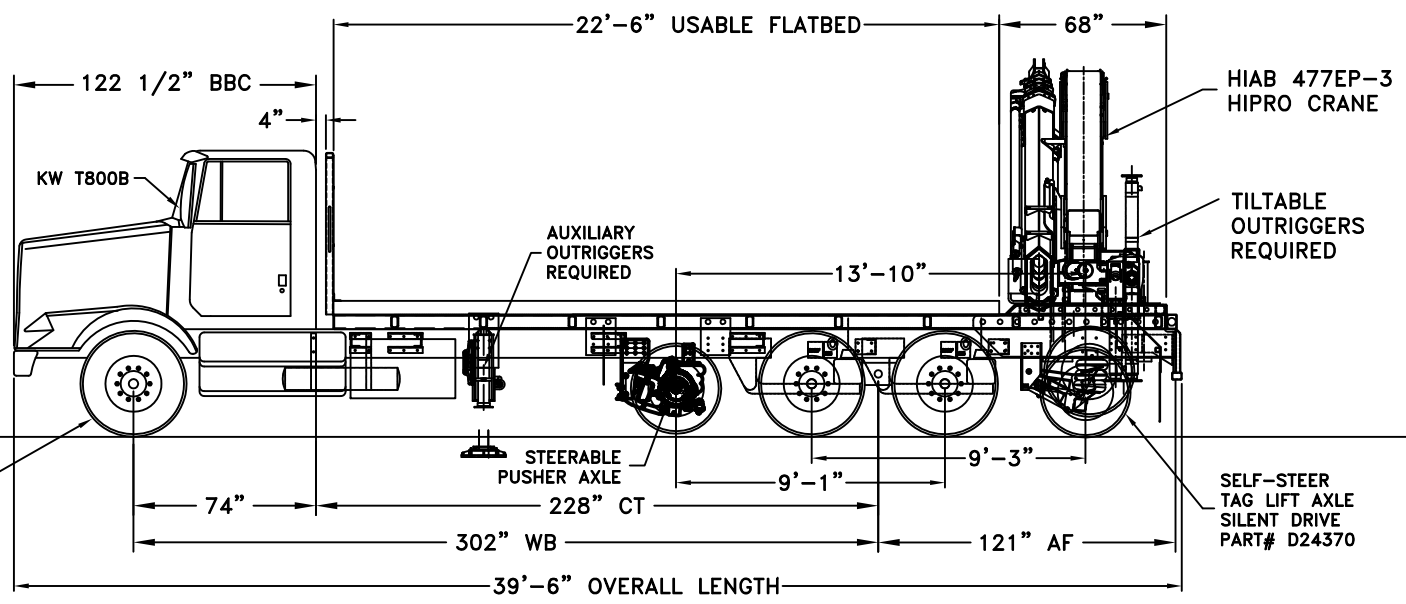


YIELD STRENGTH
110,000 P.S.I. YIELD

CRANE MINIMUM SECTION MODULUS REQUIRED
= 57.27 in.³

CRANE MIN. RBM/RAIL = 6,300,000 IN-LBS

CRANE MAY BE DERATED IN FRONT QUADRANTS AS MUCH AS 20%. ACTUAL DERATING SHALL BE BASED ON PHYSICAL TESTING.



TRUCK, HIAB CRANE, & ACCESSORIES WEIGHT DISTRIBUTION, <u>NO PAYLOAD</u> , TAG AXLE DOWN.	
TOTAL WEIGHT ON FRONT AXLE	= 14,770 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 19,530 LBS.
TOTAL WEIGHT ON TAG AXLE	= 11,000 LBS.
FRONT AXLE WT. PERCENTAGE	= 33 %
TANDEM AXLE WT. PERCENTAGE	= 43 %
TAG AXLE WT. PERCENTAGE	= 24 %
GROSS VEHICLE WEIGHT	= 45,300 LBS.

TRUCK SPECIFICATIONS	
TRUCK MODEL	= KENWORTH T800B
WHEELBASE	= 302"
CAB TO TANDEM AXLE-TO-FRAME	= 228"
FRONT CURB WEIGHT	= 11,500 LBS.
TANDEM CURB WEIGHT	= 9,300 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
110,000 P.S.I. YIELD	= 37.00 in. ³
MINIMUM RBM/RAIL = 4,070,000 IN-LBS	

NOTES:
 DOUBLE FRAME CHASSIS REQUIRED.
 CHASSIS FRAME RAIL MIN. OF 37.0 SECTION MODULUS REQ'D.
 FULL LENGTH SUB-FRAME REQUIRED:
 6" x 4" x 3/8" RECT. TUBING (ON TOP OF CHASSIS FRAME)
 5" x 3" x 3/8" RECT. TUBING (CROSSMEMBERS EVERY 3 FT.)
 3/8" TOP & 1/4" BOTTOM PLATE REQUIRED.
TAG AXLE MUST BE DOWN IN ALL FORWARD GEARS
 FLATBED, LIFT AXLE & CURB WEIGHTS ARE ESTIMATED.
 HANDLING & MANEUVERABILITY IS POOR WITH LONG WHEELBASE.

TRUCK RUNS IN US (RULES FOR MOST STATES).
 20,000 LBS. ALLOWED ON FRONT AXLE GAWR.
 34,000 LBS. ALLOWED ON TANDEM AXLE.
 42,500 LBS. ALLOWED ON 3 AXLE GROUP. (9')
 51,500 LBS. ALLOWED ON 4 AXLE GROUP. (14')
 68,000 LBS. ALLOWED FOR GROSS WEIGHT. (32')
 OVERALL LENGTH CANNOT EXCEED 40'.

TRUCK, HIAB CRANE & ACCESSORIES WEIGHT DISTRIBUTION, <u>WITH PAYLOAD</u> , TAG AXLE DOWN.	
TOTAL WEIGHT ON FRONT AXLE	= 18,930 LBS.
TOTAL WEIGHT ON PUSHER AXLE	= 8,500 LBS.
TOTAL WEIGHT ON TANDEM AXLE	= 29,570 LBS.
TOTAL WEIGHT ON TAG AXLE	= 11,000 LBS.
FRONT AXLE WT. PERCENTAGE	= 28 %
PUSHER AXLE WT. PERCENTAGE	= 13 %
TANDEM AXLE WT. PERCENTAGE	= 43 %
TAG AXLE WT. PERCENTAGE	= 16 %
GROSS VEHICLE WEIGHT	= 68,000 LBS.
WATER LEVEL PAYLOAD	= 22,700 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.

Hiab, Inc.
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Tolerances - unless otherwise noted.
 Tolerances are in inches
 2-PLACE ±.000... .03
 3-PLACE ±.000... .015
 ANGULAR ±/16"
 FRACTIONAL ±/16"
 Break all sharp corners unless otherwise specified.

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Next Assy.
 Dwg/Cad file no. 477 / SALES

Drawing Title: **HIAB 477EP-3 HIPRO CRANE**

Project Name: **SALES LAYOUT**

Drawing by: **J W** Date: **3-13-15** Size: **3-13-15** Part No.

Approval: **J W** Date Approved: **3-13-15** Scale: **unit wt.** Eng. Job no.: