

GOLDEN ENGINEERED 1.5K SINGLE TRACK SWINGER LIFT



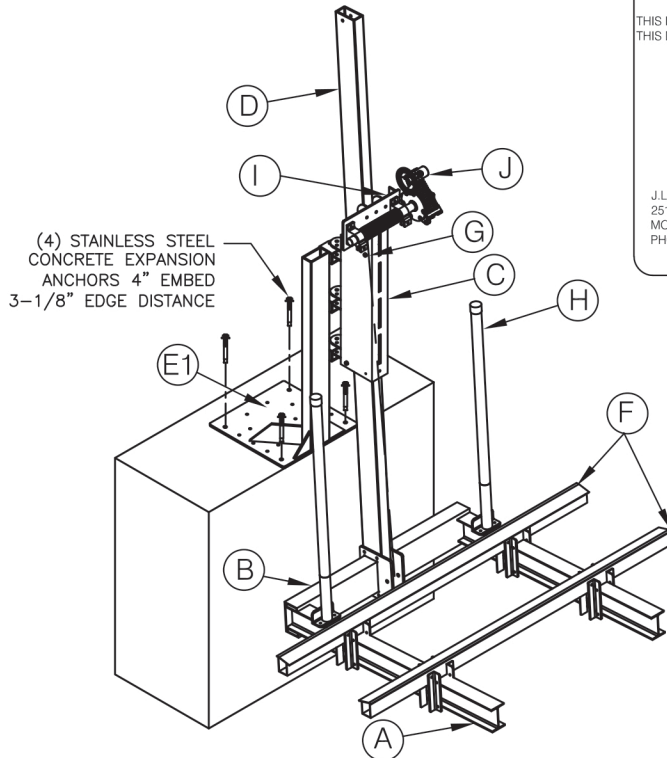
STRUCTURAL ENGINEERING REVIEW

THIS CONSTRUCTION HAS BEEN DESIGNED AS A MAIN WIND FORCE RESISTING SYSTEM, WITH CALCULATED GRAVITY AND WIND LOADS IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, 8th EDITION, 2023, ADM 2020, AND ASCE/SEI 7-22 "MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES" TO WITHSTAND THE WIND LOADS ASSOCIATED WITH AN ULTIMATE WIND SPEED OF 180 MPH, EXPOSURE "D", RISK CATEGORY I. J. L. SANDERS, PE HAS NO CONTROL OF THE MANUFACTURING, PERFORMANCE, OR INSTALLATION OF THIS PRODUCT. THESE GENERIC DESIGN FEATURES WERE ENGINEERED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES BASED ON DATA PROVIDED BY THE MANUFACTURER. THIS STRUCTURAL REVIEW IS LIMITED TO THE PRIMARY FRAMING AND CONNECTIONS AND IS NOT INTENDED TO COVER MECHANICAL AND ELECTRICAL COMPONENTS. THESE DESIGN FEATURES ARE BASED ON STRUCTURAL CALCULATIONS, TITLED "STRUCTURAL CALCULATIONS FOR JS-1500 SWING LIFT", WHICH CONTAIN ADDITIONAL DESIGN REQUIREMENTS AND CRITERIA AND ARE AVAILABLE UPON REQUEST. THE BOAT LIFTS DEPICTED BY THESE DESIGNS AND RELATED CALCULATIONS WERE ENGINEERED AS MANUFACTURED PRODUCT FOR NON-SITE SPECIFIC USE AND SHALL MEET THE DESIGN REQUIREMENTS LISTED IN THE STRUCTURAL CALCULATIONS.

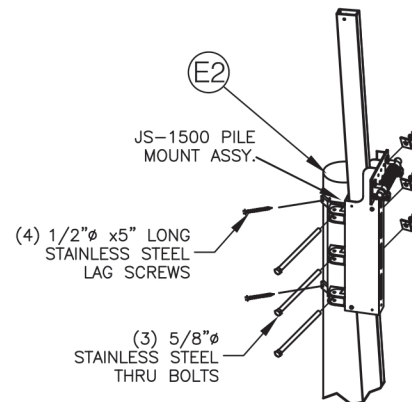
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY J. L. SANDERS, PE ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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TYPICAL JS-1500 LIFT WITH CONNECTION TO CONCRETE SEAWALL (E1)



TYPICAL VERTICAL CONNECTION TO WOOD PILE (E2)

NOTE: THIS STRUCTURE HAS BEEN DESIGNED FOR LOADS ASSOCIATED WITH AN ULTIMATE WIND SPEED OF 180 MPH, EXPOSURE "D", RISK CATEGORY I, CALCULATED PER FLORIDA BUILDING CODE 8th EDITION 2023, ASCE/SEI 7-22 AND ADM-2020. VESSELS SHALL NOT BE STORED ON LIFTS DURING HIGH WIND EVENTS. SITE SPECIFIC INFORMATION IS REQUIRED TO DETERMINE IF ADDITIONAL BRACING IS REQUIRED. ALL MEMBERS 6061-T6 ALUMINUM, UNLESS NOTED OTHERWISE.

SUMMARY OF DESIGN FEATURES

	(A)	(B)	(C)	(D)	(E1)	(E2)	(F)	(G)	(H)	(I)	(J)	
LIFT CAPACITY	CRADLE BEAM	CRADLE TUBE	UPPER CARRIAGE MAST ROLLER TUBE	LOWER CARRIAGE TRAVEL MAST	SEAWALL MOUNT ASSY.	PILE MOUNT ASSY.	BUNKS FEET	CABLE SIZE	GUIDE POST HEIGHT	DRIVE UNIT WINDER	MOTOR HP/VOLTAGE	INCHES OF LIFT PER MIN.
1,500#	6" x 4" x 0.29" I-BEAM 66" LONG	4" x 8" x 0.25" RECT. TUBE 26" LONG	5" x 10" x 0.25" RECT. TUBE 47.75" LONG	3" x 6" x 0.38" RECT. TUBE 156"-180" LONG	24" x 24" x 0.5" PLATE WITH 3" x 6" x 0.38" RECT. TUBE 52" LONG	6" x 2.03" x 0.31" CHANNEL W/ 2" x 4" x 0.75" MOUNT PLATES FOR (4) 1/2" SCREWS	(2) 4" EPF PREFAB 96" LONG	5/16" Ø (7X19) S.S. 2 PART	48"	3" Ø x 12" 6061-T6 27 WINDS STD. 500:1 OPT. 480:1 OPT. 350:1 SEADRIIVE	3/4 HP 1725 RPM 120V/20A	STD. 500:1 31 IN./MIN. OPT. 480:1 32 IN/MIN OPT. 350:1 44 IN/MIN