

IMM QUALITY BOAT LIFTS - 1500# PWC SPECIFICATIONS

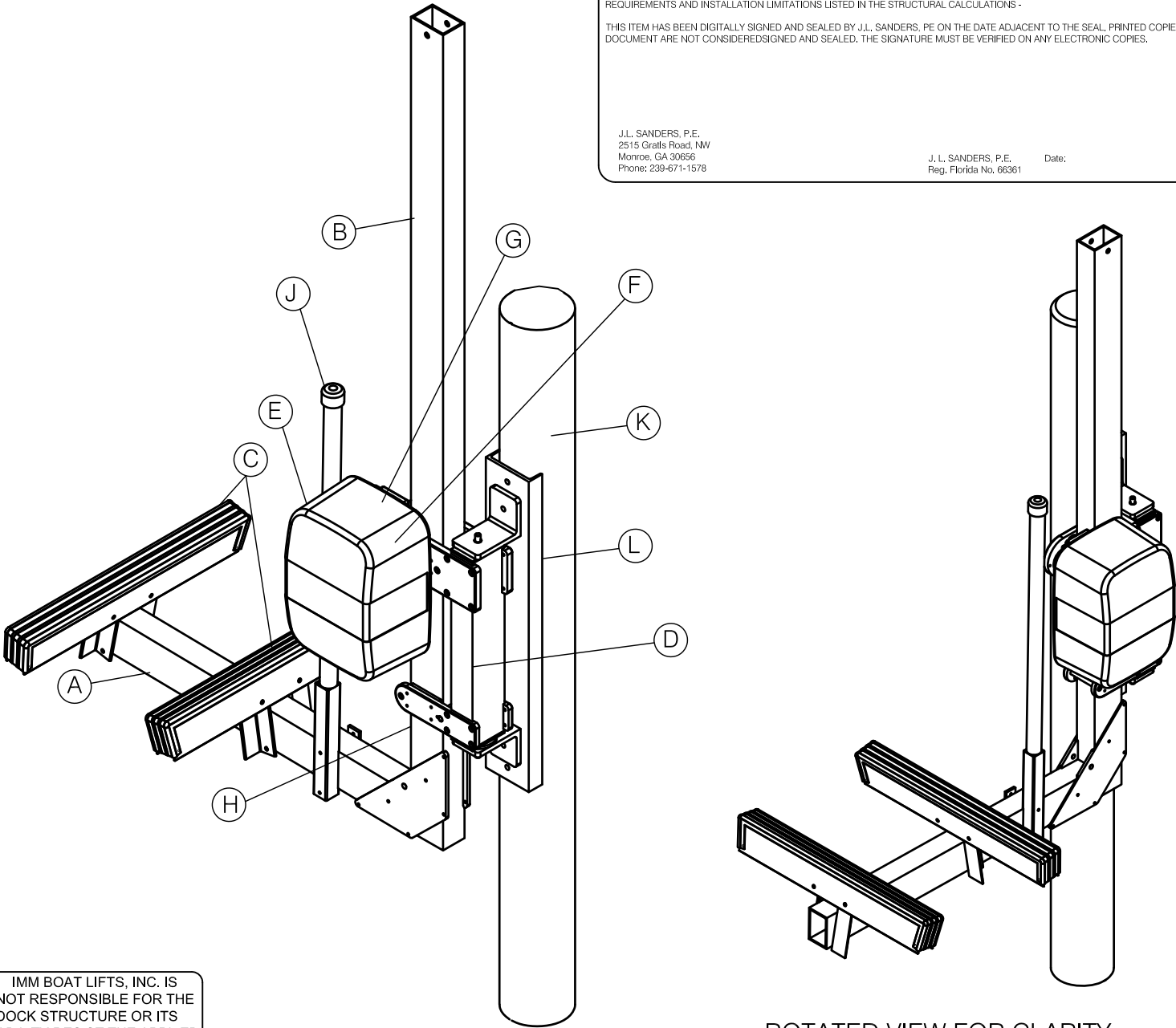
STRUCTURAL ENGINEERING REVIEW

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, 7th EDITION, 2020, CHAPTERS 16 AND 20, ALUMINUM DESIGN MANUAL (ADM 2015), AND ASCE/SEI 7-16 "MINIMUM DESIGN LOADS 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, P.E. 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 1500# PWC 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 AND INSTALLATION LIMITATIONS 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. THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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J. L. SANDERS, P.E. Date:
Reg. Florida No. 66361



IMM BOAT LIFTS, INC. IS NOT RESPONSIBLE FOR THE DOCK STRUCTURE OR ITS ABILITY RESIST THE APPLIED LOADS OF THE BOAT LIFT. THE SITE SHOULD BE VERIFIED BY A LICENSED MARINE CONTRACTOR. APPLIED LOADS WILL BE PROVIDED UPON REQUEST.

- Notes:
1. Structure designed for loads associated with an ultimate wind speed of 180 MPH, exposure "D", risk category 1, calculated for Florida Building Code 2020, ASCE/SEI 7-16 and ADM-2015.
 2. Vessels shall not be stored on lifts during high wind events.
 3. All primary structural members to be 6061-T6 aluminum.
 4. Wood piles shall comply with ASTM D25 and be southern pine, 2.5 cca marine grade pressure treated.
 6. Lateral support for piles and attachment to piles shall be engineered by others for site specific conditions.

	A	B	C	D	E	F	G	H	J	K	L			
LIFT CAPACITY lbs.	CRADLE TUBE 6061-T6	MAST TUBE 6061-T6	BUNKS	SWIVEL MAST GUIDE ASSY.	MOTOR HP/VOLTAGE	GEARBOX/ RATIO	CABLE WINDER	CABLE	GUIDE POST HEIGHT	PILE SIZE	PILE MOUNT BRACKET	PILE MOUNT BOLTS	LIFT SPEED in/min	MAST ANGLE
1,500	6" x 4" x 0.25"	6" x 4" x 0.25" x 132" Long	72" Aluminum	6" x 4" x 0.25"	3/4 HP 115V/11A 230V/5.5 A	WORM 040/075 375:1	GROOVED 4" NYLON	1/4 SSAC 7x19 304 1-PART 17'	48"	10" DIA.	C8 X 6.48 plf.	5/8" DIA. THRU BOLTS	55	0 DEGREES