

GOLDEN GATORVATOR 4 POST, 4 MOTOR LIFT



Double the Speed, Double the Strength.

NOTE:
BOATS SHALL NOT BE STORED ON LIFT DURING HIGH WIND EVENTS.

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, CHAPTERS 16 & 20, ADM 2020, AND ASCE/SEI 7-22 "MINIMUM DESIGN LOADS AND OTHER 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, P.E. HAS NO CONTROL OF THE MANUFACTURING, PERFORMANCE, OR INSTALLATION OF THIS PRODUCT. THESE GENERIC SPECIFICATIONS 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 SPECIFICATIONS ARE BASED ON STRUCTURAL CALCULATIONS TITLED "4 POST GATORVATOR LIFT", WHICH CONTAIN ADDITIONAL DESIGN REQUIREMENTS AND CRITERIA AND ARE AVAILABLE UPON REQUEST. THE BOAT LIFTS DEPICTED IN THESE SPECIFICATIONS AND RELATED CALCULATIONS WERE ENGINEERED AS MANUFACTURED PRODUCT FOR NON-SITE SPECIFIC USE AND NOT INTENDED TO COVER SITE SPECIFIC CONDITIONS, REQUIREMENTS AND LIMITATIONS LISTED IN THE STRUCTURAL CALCULATIONS.

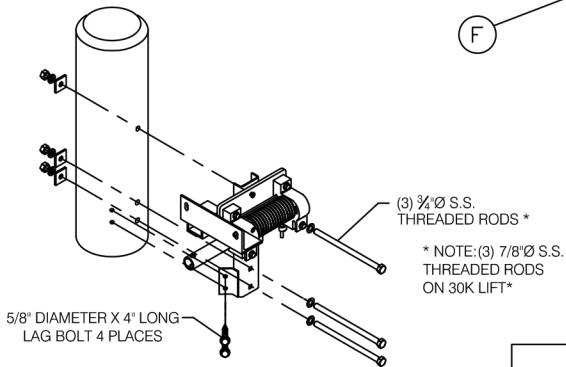
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY J.L. SANDERS, PE ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



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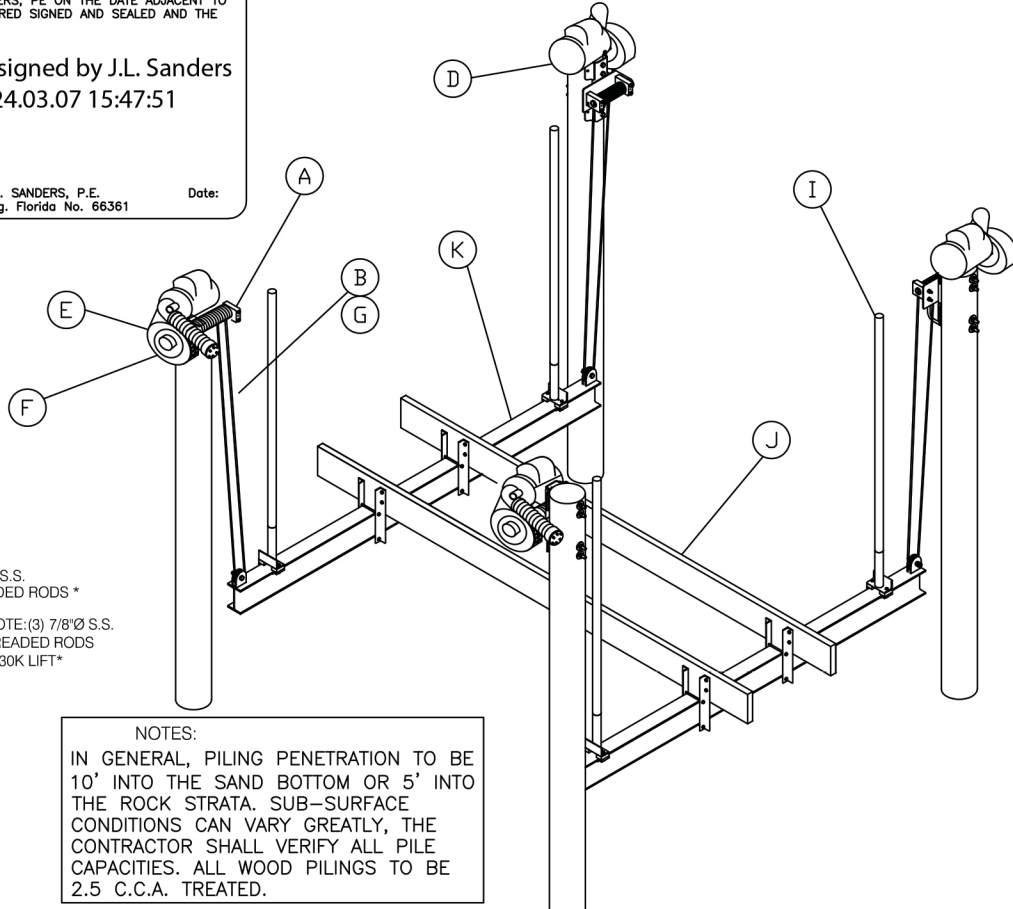
J.L. SANDERS, P.E. Date:
Reg. Florida No. 66361



CABLE WINDER PILE MOUNTING DETAIL

NOTES:

IN GENERAL, PILING PENETRATION TO BE 10' INTO THE SAND BOTTOM OR 5' INTO THE ROCK STRATA. SUB-SURFACE CONDITIONS CAN VARY GREATLY, THE CONTRACTOR SHALL VERIFY ALL PILE CAPACITIES. ALL WOOD PILINGS TO BE 2.5 C.C.A. TREATED.



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. BOATS SHALL NOT BE STORED ON LIFTS DURING HIGH WIND EVENTS.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	
LIFT CAPACITY	NO. OF BRGS	CABLE CONFIG.	GROOVED WINDERS IN.	DRIVE SHAFT IN.	DRIVE	NO. OF MOTORS & H.P.	LIFTING CABLE IN.	LIFT PER MIN. /IN.	GUIDE POST HEIGHT IN.	BUNK IN.	CRADLE BEAM/"I" BEAM SIZE IN.	
LBS.												
7,000	8	1 PART & 2 PART	3.5 Ø X 12"	SOLID	SEA DRIVE 4,500 IPT	(4)-3/4 HP 120V / 20A 240V / 10A	(4) .3125 Ø	42" to 108"	80"	2 x 8 X 144	6 x .21 H 4 x .35 W	
10,000											8 x .23 H 5 x .35 W	
14,000											8 x .25 H 5 x .41 W	
16,000		30' S.S. 2 PART			3.5 Ø X 16"	3.5 O.D. SOLID ALUMINUM PIPE	SEA DRIVE 8,000 IPT	(4)-1 HP 120V / 28A 240V / 14A	(4) .375 Ø	21" to 54"	120"	3 x 10 X 168
20,000												10 x .25 H 6 x .41 W
24,000												10 x .29 H 6 x .50 W
30,000												6 x 10 BEAM 240
										12 x .31 H 7 x .62 W		