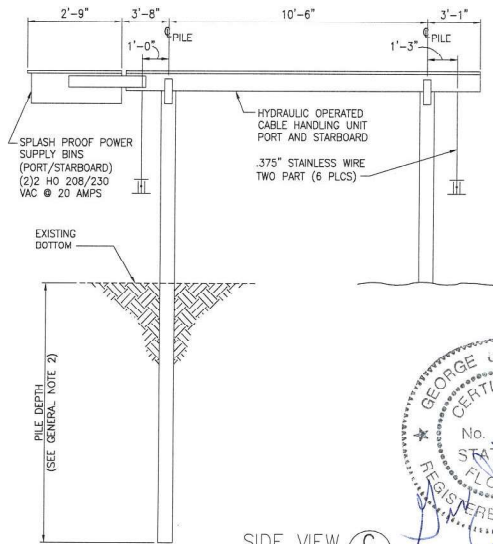
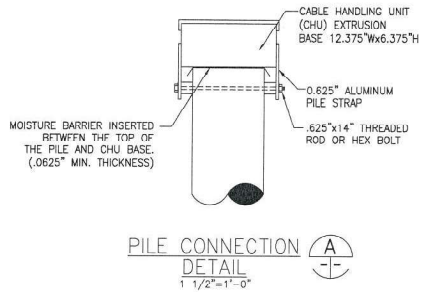
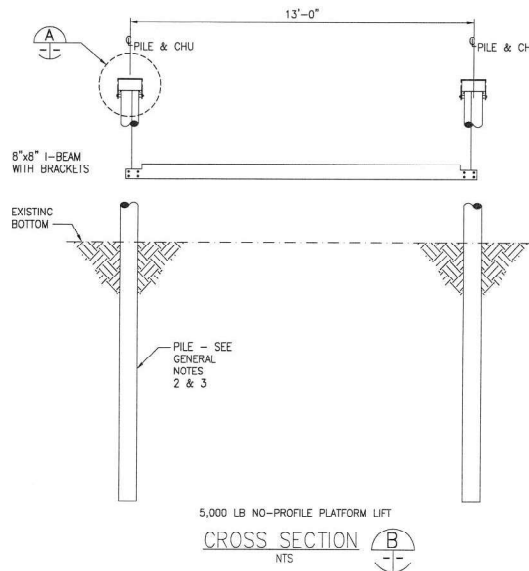
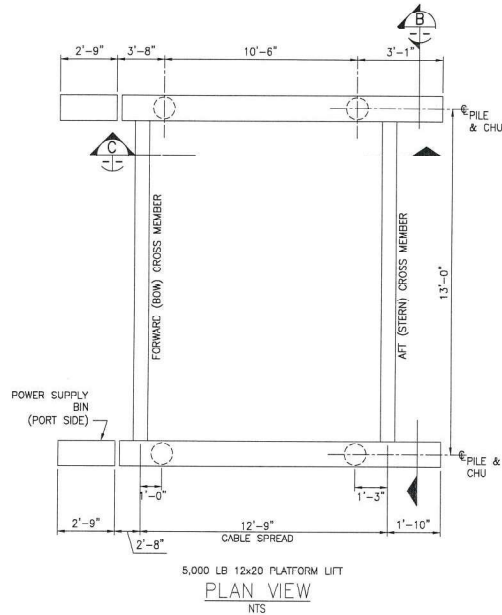


MPH	EXPOSURE (2)	WIND PRESSURE	PILE REACTIONS (5)	
			PERPENDICULAR TO CHU (3)	PARALLEL TO CHU (4)
180	C	52.1 PSF	1853#	976#
180	D	63.0 PSF	2351#	1183#
170	C	46.4 PSF	1742#	871#
170	D	49.7 PSF	2106#	1053#
160	C	41.1 PSF	1545#	771#
160	D	46.2 PSF	1865#	933#
150	C	36.2 PSF	1356#	678#
150	D	43.7 PSF	1630#	820#
140	C	31.5 PSF	1181#	581#
140	D	38.1 PSF	1428#	714#
130	C	27.2 PSF	1018#	509#
130	D	32.8 PSF	1231#	616#
120	C	23.1 PSF	868#	434#
120	D	28.0 PSF	1049#	525#

WIND LOADS  
NTS

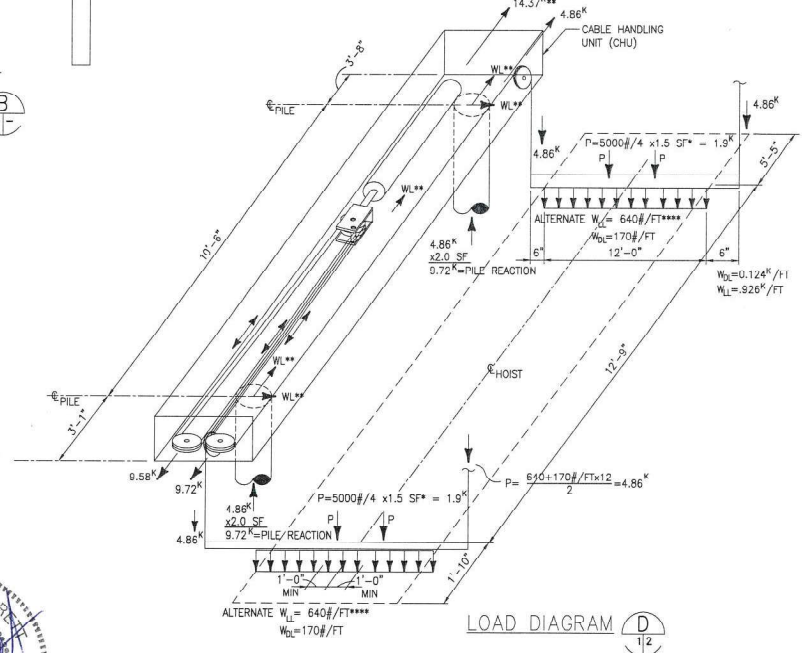
NOTES:

- THE ALUMINUM BOAT HOIST STRUCTURE HAS BEEN DESIGNED FOR 180 MPH, RISK CATEGORY II EXPOSURE D.
- EXPOSURE C APPLIES TO WATER EXPOSURE FOR AN UPWIND DISTANCE BETWEEN 1,500 AND 5,000 FEET. EXPOSURE D APPLIES TO WATER EXPOSURE FOR AN UPWIND DISTANCE OF 5,000 FEET OR GREATER.
- WIND SPEED APPLIED TO 300 SQUARE FOOT SURFACE AREA AND DISTRIBUTED TO 4 PILES SUPPORTING THE BOAT CRADLE.
- WIND PRESSURE APPLIED TO 150 SQUARE FOOT SURFACE AREA AND DISTRIBUTED TO 4 PILES.
- PERPENDICULAR & PARALLEL PILE REACTIONS ARE NOT APPLIED SIMULTANEOUSLY.



GENERAL NOTES:

- ALL HARDWARE TO BE STAINLESS STEEL UNLESS OTHERWISE NOTED.
- PILE MATERIAL, DIAMETER, AND DEPTH TO BE DETERMINED BY GEOTECHNICAL ENGINEER RETAINED BY THE GENERAL CONTRACTOR BASED ON LOCAL SOIL CONDITIONS.
- IF WOOD PILING IS USED, IT SHALL BE TREATED WITH 2.5lb CCA. IF STEEL PILING IS USED, A CATHODIC ISOLATION BARRIER SHALL BE PROVIDED BETWEEN THE STEEL PILE AND THE ALUMINUM CHU. APPROVED CONTRACTOR SHALL DETERMINE SUITABILITY OF THE EXISTING STRUCTURES AND VERIFY ALL DIMENSIONS.
- APPROVED CONTRACTOR IS RESPONSIBLE FOR ALL MEANS, METHODS, SEQUENCES AND PROCEDURES.
- LIFT DESIGNED PER FLORIDA BUILDING CODE 6TH EDITION (2017).
  - DECK LIVE LOAD = 60 PSF
  - WIND LOAD-THE ALUMINUM BOAT HOIST STRUCTURE HAS BEEN DESIGNED PER ASCE 7-10 SOLID SIGN CRITERIA FOR 180 MPH, RISK CATEGORY II EXPOSURE D.
  - SEE TABLE FOR PILE REACTIONS FOR LATERAL WIND LOADS OF VARYING SPEEDS AND EXPOSURE CLASSIFICATIONS.
  - HOIST LIVE LOAD = 5,000 POUNDS



- \* 1.5 SAFETY FACTOR TO ACCOUNT FOR IMPACT/UNBALANCED LOADING/OVERLOADING/AND HOIST ACCELERATION AT CROSS BEAMS, CABLES, AND SINGLE PULLEYS
- \*\* 1.1 SAFETY FACTOR FOR HOIST ACCELERATION AT MULTIPLE CABLE PULLEYS AND PISTON.
- \*\*\* W\_L EQUALS WINDLOAD. SEE SCHEDULE ABOVE.
- \*\*\*\* 60 PSF LIVE LOAD NOT APPLIED CONCURRENT WITH BOAT LOADS AND IS NOT A HOIST REQUIREMENT.



SIDE VIEW (C-C) NTS  
**GEORGE J. LEVERETT**  
 FLORIDA P.E. 38336

	GEORGE J. LEVERETT PE STRUCTURAL ENGINEERING, LLC 3606 RIVER HALL DRIVE JACKSONVILLE FL 32217 CERTIFICATE OF AUTHORIZATION No 28761 (904) 923-5407		NO PROFILE BOAT LIFT SCALE: AS NOTED DATE: 07/01/18 OWNER:	5,000 lb 12x20 PLATFORM DRAWN BY: AFN REVISION:
	GEORGE J. LEVERETT, P.E. FL PE# 38336	ADDRESS:	WIND DRPL PERM	