

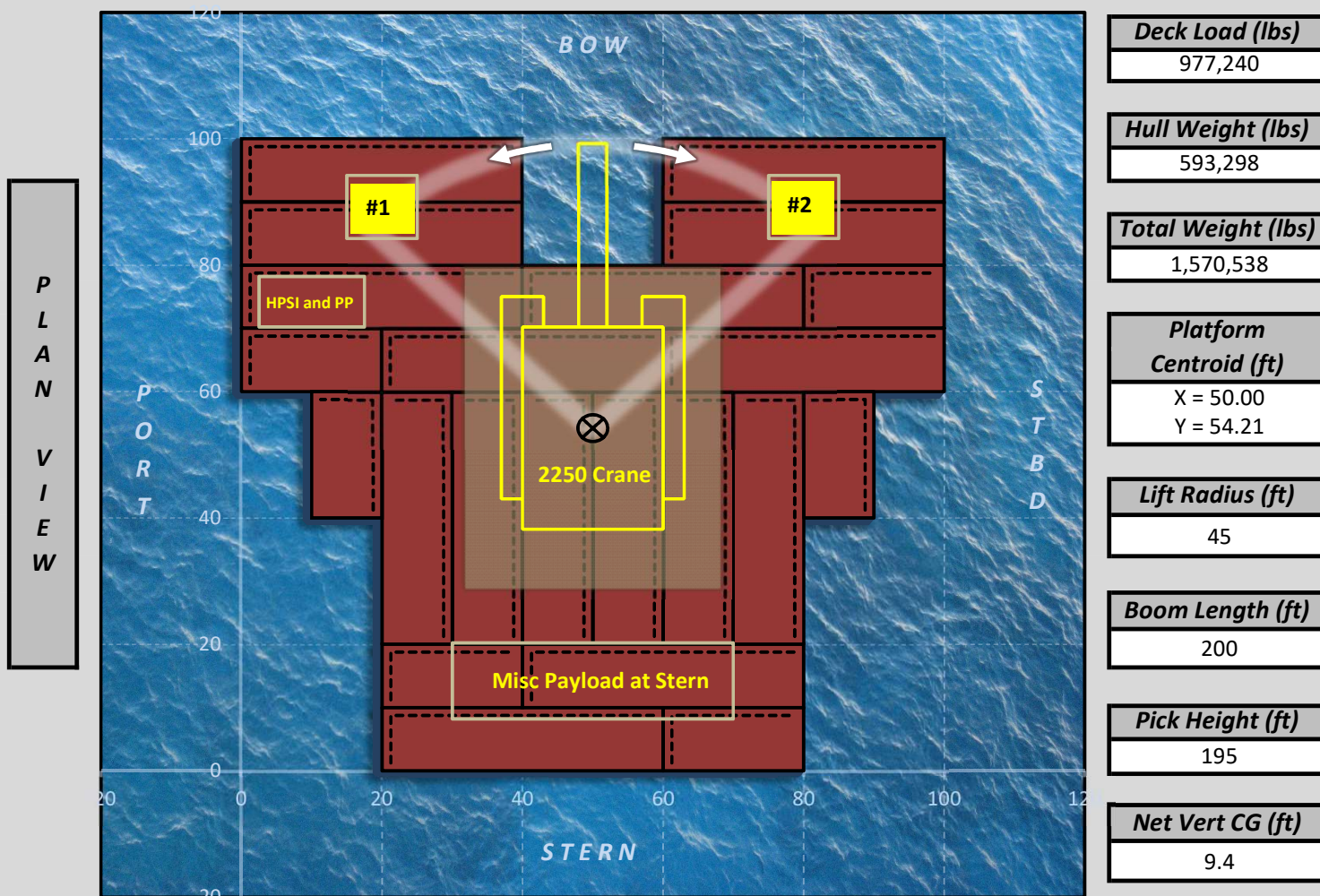


1/31/17

BARGE CONFIGURATION AND ENGINEERING ANALYSIS

DECK LOAD		Weight (lbs)	Vertical CG (ft)	Dist from Centroid X (ft) Y (ft)		Size (ft) Length Width	
Description							
Manitowoc 2250 Crane		649,740	14.0	0	0	20	32
Crane Mat - 12" Thick		72,000	7.5	0	0	36	50
Crane Pick Load							
HPSI and Power Pack		20,500	10.0	-40	20	15	8
Misc deck load at Stern		25,000	11.0		-40	40	12
Caisson Section #1		105,000	12.0	-30	35	10	10
Caisson Section #2		105,000	12.0	30	35	10	10

HULL WEIGHT		Weight (lbs)	Vertical CG (ft)	Alignment Angle Orientation (deg)	Range of Operation
Qty	Description				
16	P2 - 7 x 40 x 10 - Barge	492,432	3.5		from 45 to 135 degrees
6	P2 - 7 x 20 x 10 - Barge	100,866	3.5		



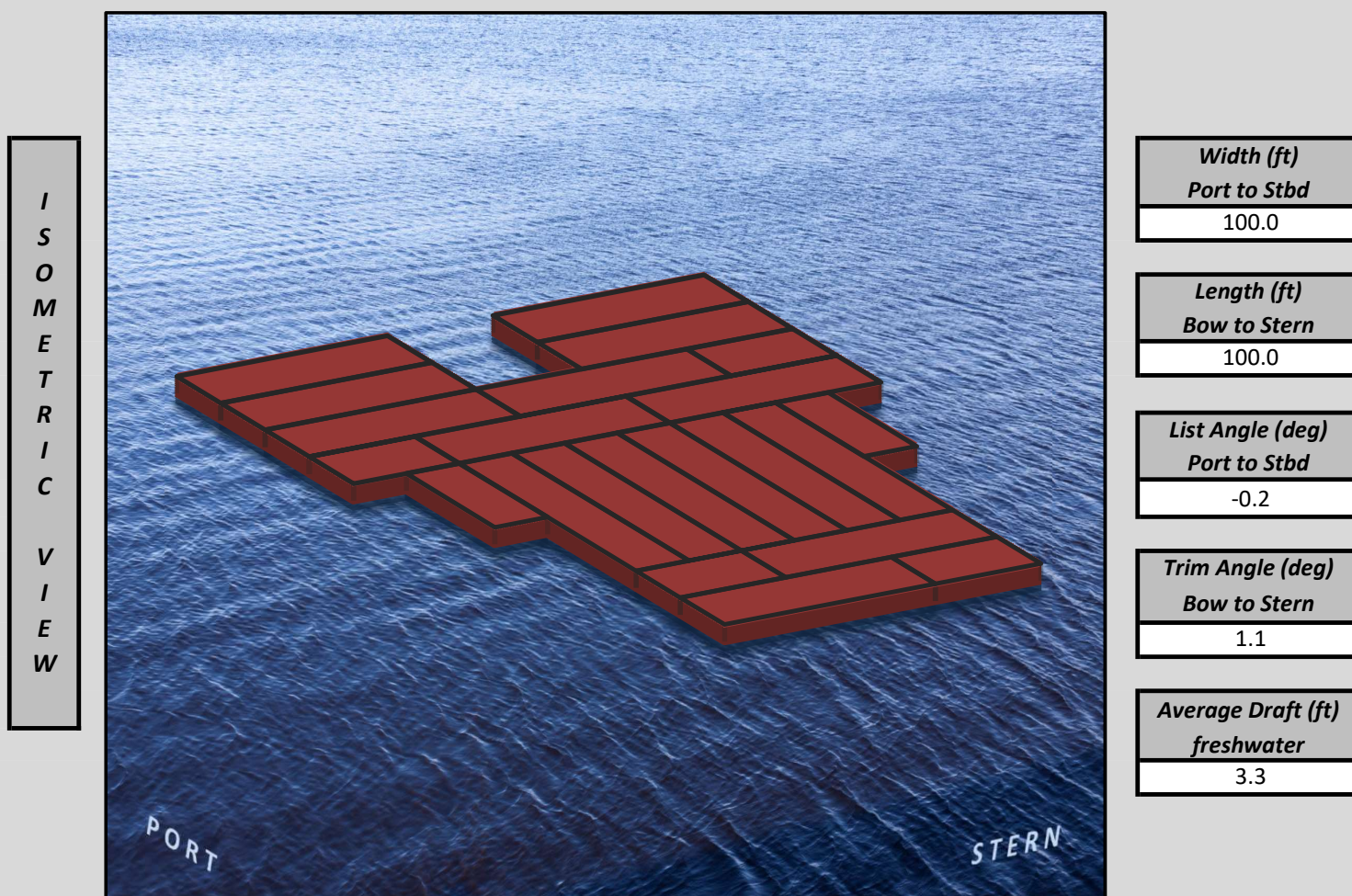


BARGE CONFIGURATION AND ENGINEERING ANALYSIS

HYDROSTATICS							
Description				Description			
Displaced Volume in Saltwater (ft ³)		24,540		Average Draft in Saltwater (ft)		3.23	
Displaced Volume in Freshwater (ft ³)		25,169		Average Draft in Freshwater (ft)		3.31	
Longitudinal Moment of Inertia (ft ⁴)		5878596		Waterplane Area (ft ²)		7600	
Transverse Moment of Inertia (ft ⁴)		4893333		Vertical Center of Buoyancy (ft)		1.66	

STABILITY METRICS							
Working over end of platform				Working over side of platform			
Trim Moment (ft lbs)		6760000		List Moment (ft lbs)		-820000	
BM _L (ft)		233.6		BM _T (ft)		194.4	
GM _L (ft)		225.9		GM _T (ft)		186.7	

Note - Negative moments and angles are towards the Port and Stern.



This analysis is provided for the evaluation of buoyancy and stability based upon the project parameters submitted to Poseidon Barge Corp. There are project and worksite conditions and variables which are unforeseeable and beyond the control of Poseidon Barge Corp. and therefore, we cannot accept responsibility and specifically deny any liability for the safe use of Poseidon Barge Corp. equipment. This analysis is a guideline and does not constitute a guarantee that there will not be circumstances that prevent and do not allow for the intended use of the equipment. Approval of the analysis and ultimate project engineering is the sole responsibility of the contractor/lessee. Please review our website for further information concerning our Disclaimer of Warranties. www.poseidonbarge.com