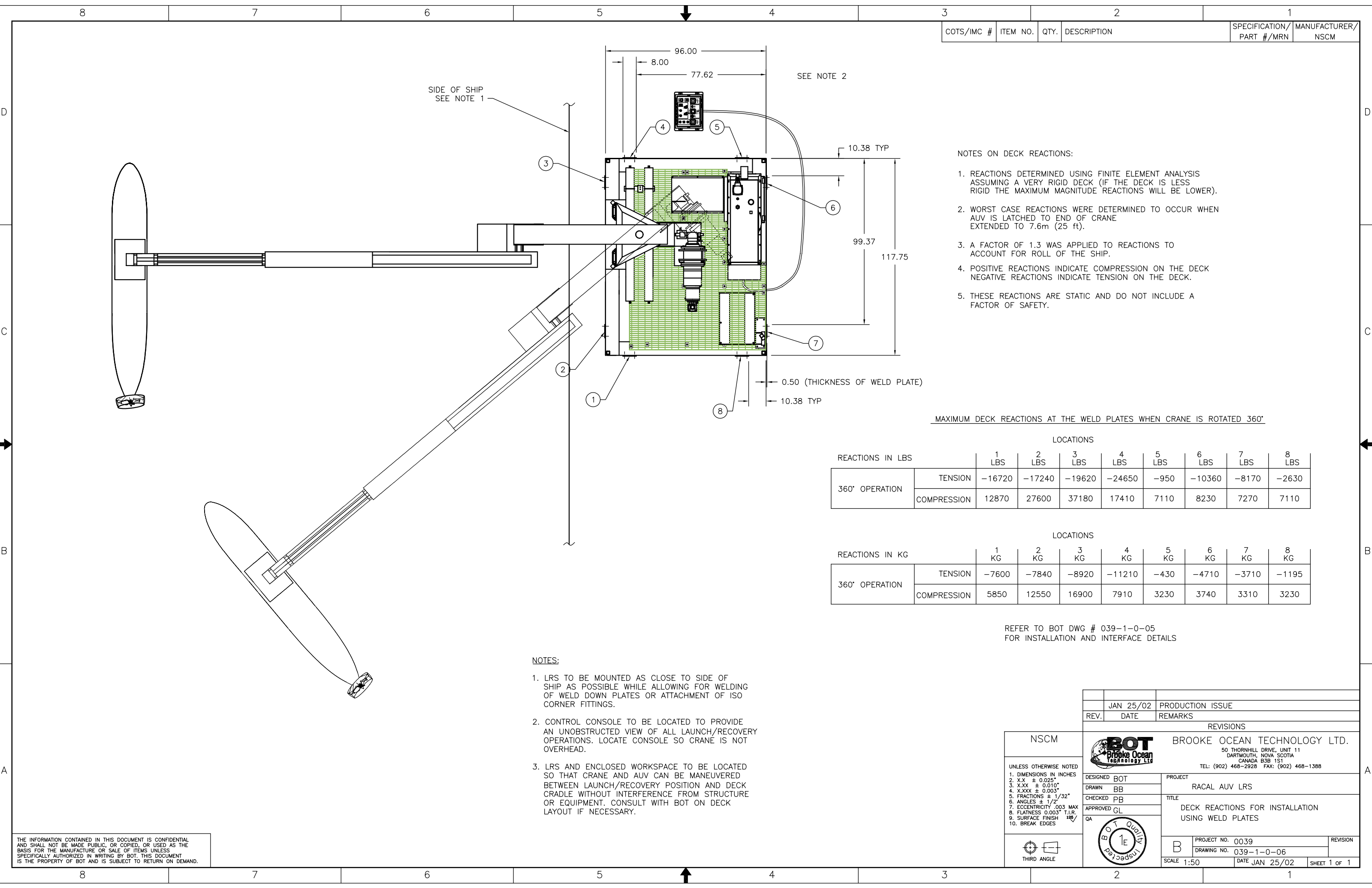




COTS/IMC #	ITEM NO.	QTY.	DESCRIPTION	SPECIFICATION/ PART #/MRN	MANUFACTURER/ NSCM
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- NOTES ON DECK REACTIONS:
1. REACTIONS DETERMINED USING FINITE ELEMENT ANALYSIS ASSUMING A VERY RIGID DECK (IF THE DECK IS LESS RIGID THE MAXIMUM MAGNITUDE REACTIONS WILL BE LOWER).
 2. WORST CASE REACTIONS WERE DETERMINED TO OCCUR WHEN AUV IS LATCHED TO END OF CRANE EXTENDED TO 7.6m (25 ft).
 3. A FACTOR OF 1.3 WAS APPLIED TO REACTIONS TO ACCOUNT FOR ROLL OF THE SHIP.
 4. POSITIVE REACTIONS INDICATE COMPRESSION ON THE DECK. NEGATIVE REACTIONS INDICATE TENSION ON THE DECK.
 5. THESE REACTIONS ARE STATIC AND DO NOT INCLUDE A FACTOR OF SAFETY.

MAXIMUM DECK REACTIONS AT THE WELD PLATES WHEN CRANE IS ROTATED 360°

		LOCATIONS							
REACTIONS IN LBS		1 LBS	2 LBS	3 LBS	4 LBS	5 LBS	6 LBS	7 LBS	8 LBS
360° OPERATION	TENSION	-16720	-17240	-19620	-24650	-950	-10360	-8170	-2630
	COMPRESSION	12870	27600	37180	17410	7110	8230	7270	7110

		LOCATIONS							
REACTIONS IN KG		1 KG	2 KG	3 KG	4 KG	5 KG	6 KG	7 KG	8 KG
360° OPERATION	TENSION	-7600	-7840	-8920	-11210	-430	-4710	-3710	-1195
	COMPRESSION	5850	12550	16900	7910	3230	3740	3310	3230

REFER TO BOT DWG # 039-1-0-05
FOR INSTALLATION AND INTERFACE DETAILS

- NOTES:
1. LRS TO BE MOUNTED AS CLOSE TO SIDE OF SHIP AS POSSIBLE WHILE ALLOWING FOR WELDING OF WELD DOWN PLATES OR ATTACHMENT OF ISO CORNER FITTINGS.
 2. CONTROL CONSOLE TO BE LOCATED TO PROVIDE AN UNOBSTRUCTED VIEW OF ALL LAUNCH/RECOVERY OPERATIONS. LOCATE CONSOLE SO CRANE IS NOT OVERHEAD.
 3. LRS AND ENCLOSED WORKSPACE TO BE LOCATED SO THAT CRANE AND AUV CAN BE MANEUVERED BETWEEN LAUNCH/RECOVERY POSITION AND DECK CRADLE WITHOUT INTERFERENCE FROM STRUCTURE OR EQUIPMENT. CONSULT WITH BOT ON DECK LAYOUT IF NECESSARY.

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	JAN 25/02	PRODUCTION ISSUE
REV.	DATE	REMARKS
REVISIONS		
BOT Brooke Ocean Technology Ltd. 50 THORNHILL DRIVE, UNIT 11 DARTMOUTH, NOVA SCOTIA CANADA B3B 1S1 TEL: (902) 468-2928 FAX: (902) 468-1388		
NSCM	DESIGNED BOT	PROJECT
	DRAWN BB	RACAL AUV LRS
	CHECKED PB	TITLE
	APPROVED GL	DECK REACTIONS FOR INSTALLATION USING WELD PLATES
UNLESS OTHERWISE NOTED 1. DIMENSIONS IN INCHES 2. X.X ± 0.025" 3. X.XX ± 0.010" 4. X.XXX ± 0.003" 5. FRACTIONS ± 1/32" 6. ANGLES ± 1/2° 7. ECCENTRICITY .003 MAX 8. FLATNESS 0.003" T.I.R. 9. SURFACE FINISH 125/10 10. BREAK EDGES	QA	
	THIRD ANGLE	
		
B	PROJECT NO. 0039	REVISION
	DRAWING NO. 039-1-0-06	
SCALE 1:50	DATE JAN 25/02	SHEET 1 OF 1