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NOTE: THIS DRAWING AND THE INFORMATION CONTAINED HEREON CONSTITUTES EXPORT CONTROLLED INFORMATION SUBJECT TO THE INTERNATIONAL TRAFFIC IN ARMS REGULATIONS (ITAR) AND A TECHNICAL ASSISTANCE AGREEMENT ("TAA") BETWEEN GUIDO PERLA & ASSOCIATES, INC. ("GPA") AND APPLICABLE SUBCONTRACTORS. THIS DRAWING AND THE INFORMATION CONTAINED HEREIN MAY NOT BE DISCLOSED OR TRANSFERRED TO ANY PERSON, WHO IS NOT A U.S. PERSON AS DEFINED IN 22 CFR 120.15 WITHOUT THE EXPRESS PRIOR WRITTEN CONSENT OF GPA AND THE OFFICE OF TRADE CONTROLS LICENSING OF THE U.S. DEPARTMENT OF STATE, AND COMPLIANCE WITH APPLICABLE PROVISIONS OF ITAR AND THE TAA. ANY VIOLATION OF THESE RESTRICTIONS MAY SUBJECT THE VIOLATOR TO CRIMINAL PROSECUTION.

P R E L I M I N A R Y
DRAWINGS SUBMITTED UPON THE OCCASION OF DESIGN REVIEW 1.
GPA RESERVES THE RIGHT TO MAKE ANY CHANGES TO THIS DRAWING IN UPCOMING REVISIONS.
FINAL REVIEW AND APPROVAL BY GPA IS PENDING.

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE

EQUIPMENT LIST					
NO.	NAME	MANUFACTURER	MODEL NO.	SWL	NOTES
1	MAIN CRANE	ALLIED	TK70-70	22,000 LBS AT 70 FT (STATIC)	REF 4
2	PORTABLE CRANE	ALLIED	TK4-30	2,000 LBS AT 30 FT (DYNAMIC)	REF 5
3	STERN FRAME	ALLIED	A-30	30,000 LBS AT ALL POSITIONS	REF 6
4	HYDROGRAPHIC WINCH	MARKEY	CAST6-125	24,000 LBS	REF 10
5	TRACTION WINCH	MARKEY	DETW-9-11	26,500 LBS (0 TO 205 FT/MIN)	REF 9
6	CTD HANDLING SYSTEM	ALLIED	CTD LARS	11,100 LBS AT 23 FT (DYNAMIC)	REF 7
7	STARBOARD SIDE HANDLING DEVICE	ALLIED	STBD SIDE HANDLER	11,100 LBS AT 23 FT (DYNAMIC)	REF 8

TRACTION/TRAWL WINCH	SHEAVES		
	LOCATION	DIAMETER	TYPE
	01 DK FR 92 CL	48 INCH	FLAGGING, INSTRUMENTED
	A-FRAME	48 INCH	HANGING (GFE)
HYDROGRAPHIC WINCH	FOCSLE DK FR 74 (S)	16 INCH	PEDESTAL 1- 2 FIXED, 1 FLAGGING
	FOCSLE DK FR 83 (S)	16 INCH	PEDESTAL 2- 2 FIXED

G E N E R A L N O T E S

1. ALL WORKMANSHIP, WELDING AND MATERIALS SHALL BE IN ACCORDANCE WITH THE ABS RULES FOR VESSELS UNDER 90 METERS, SUB-CHAPTER "U" OF TITLE 46 OF THE CFR AND SOLAS.
2. ALL STRUCTURAL STEEL SHALL BE ABS GRADE A OR EQUIVALENT UNLESS NOTED OTHERWISE. WELDING SHALL BE IN ACCORDANCE WITH ABS RULES AND SHALL BE TO THE SATISFACTION OF THE ATTENDING ABS SURVEYOR.
3. ROUGH OR RAGGED EDGES WHERE LIKELY TO INJURE PERSONNEL OR DAMAGE EQUIPMENT SHALL BE DRESSED OR MADE SMOOTH.
4. DOUBLE BITT TO BE REMOVED/RELOCATED DURING OVER THE SIDE TOWING OPERATIONS.

10. MARKEY E52030	HYDROGRAPHIC WINCH
9. MARKEY 43282	TRACTION WINCH
8. ALLIED 63677	ALLIED STBD SIDE HANDLER
7. ALLIED 63297	ALLIED CTD-LARS
6. ALLIED 63567	ALLIED A-30 STERN FRAME GENERAL ARRANGEMENTS
5. ALLIED 63439	ALLIED PORTABLE CRANE TK4-30
4. ALLIED 63267	ALLIED CRANE TK70-70 GENERAL ARRANGEMENT
3. 54308-832-01	CONTRACTOR'S SYSTEM SPECIFICATION
2. 54308-573-01	HANDLING SYSTEMS ARRANGEMENT
1. 54308-801-01	GENERAL ARRANGEMENTS

DWG	TITLE
REFERENCES	
APPROVALS	
USCG	
ABS	
OWNER	
HULL NO. 58	DESIGNER GUIDO PERLA & ASSOCIATES, Inc. 701 FIFTH AVENUE, SUITE 1200 SEATTLE, WA. 98104 U.S.A. Tel: (206) 768-1515 Fax: (206) 768-9700 Email: gpa@gpai.com
CAGE CODE OW7U3	SHIPBUILDER DAKOTA CREEK INDUSTRIES, Inc. 820 FOURTH STREET, P.O. BOX 218 ANACORTES, WA 98221 Tel: (360) 293-9575 Fax: (360) 293-6453
NAVSEA DWG. No. 8565925	PROJECT OCEAN CLASS AGOR
ESWBS 573-02	TITLE SHIP CONSTRUCTION
SCIENTIFIC SYSTEMS DEPLOYMENT	
DWN MSH DATE 02/10/11	DWG No. 65411-573-02
CKD CC DATE 02/10/11	REV. -
APVD - DATE -	SCALE NONE
APVD - DATE -	SHEET: 1 OF 6

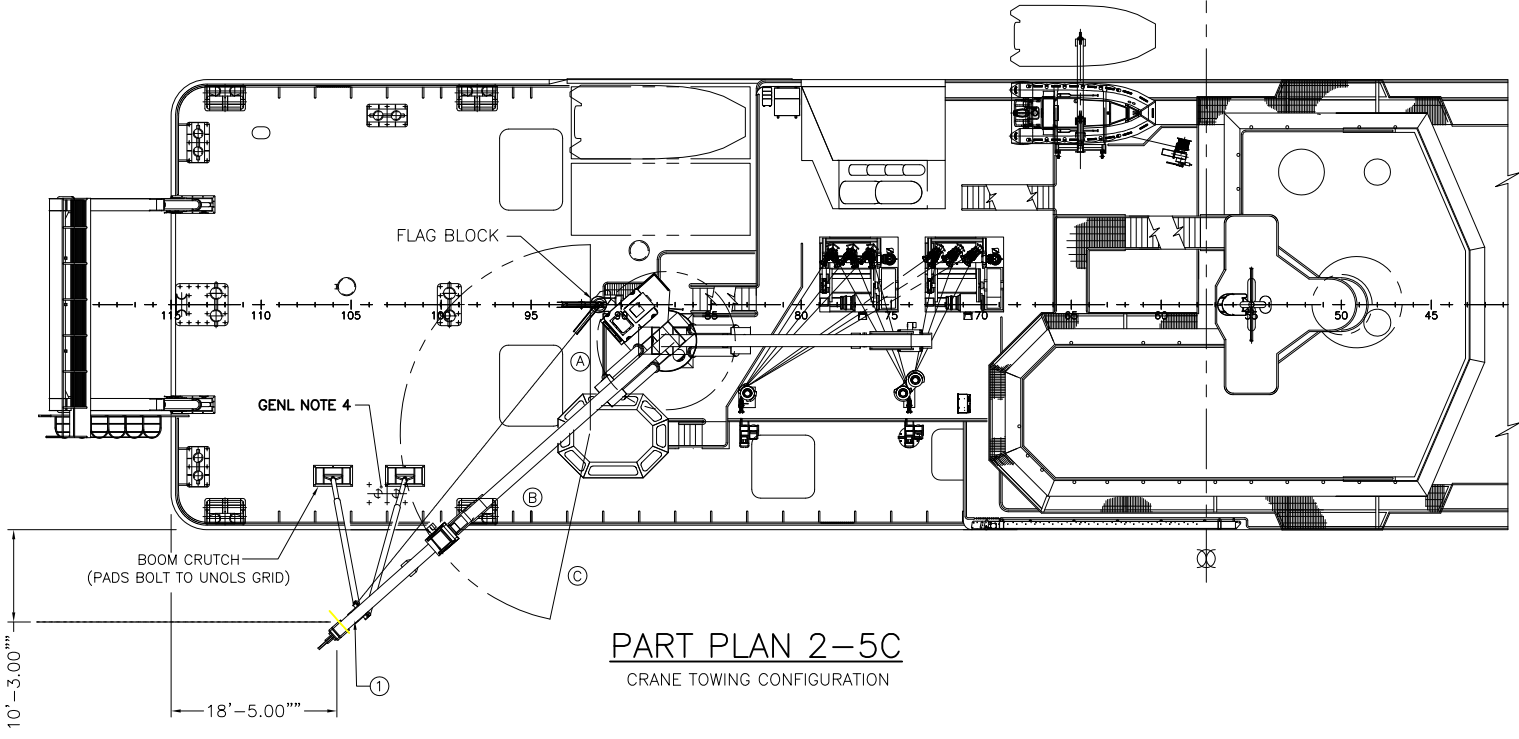
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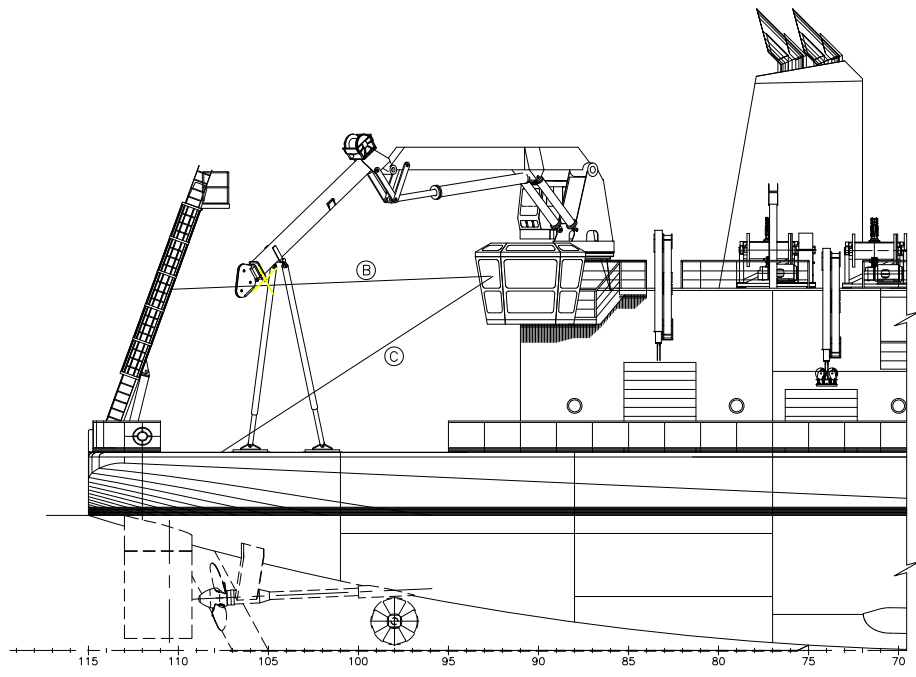
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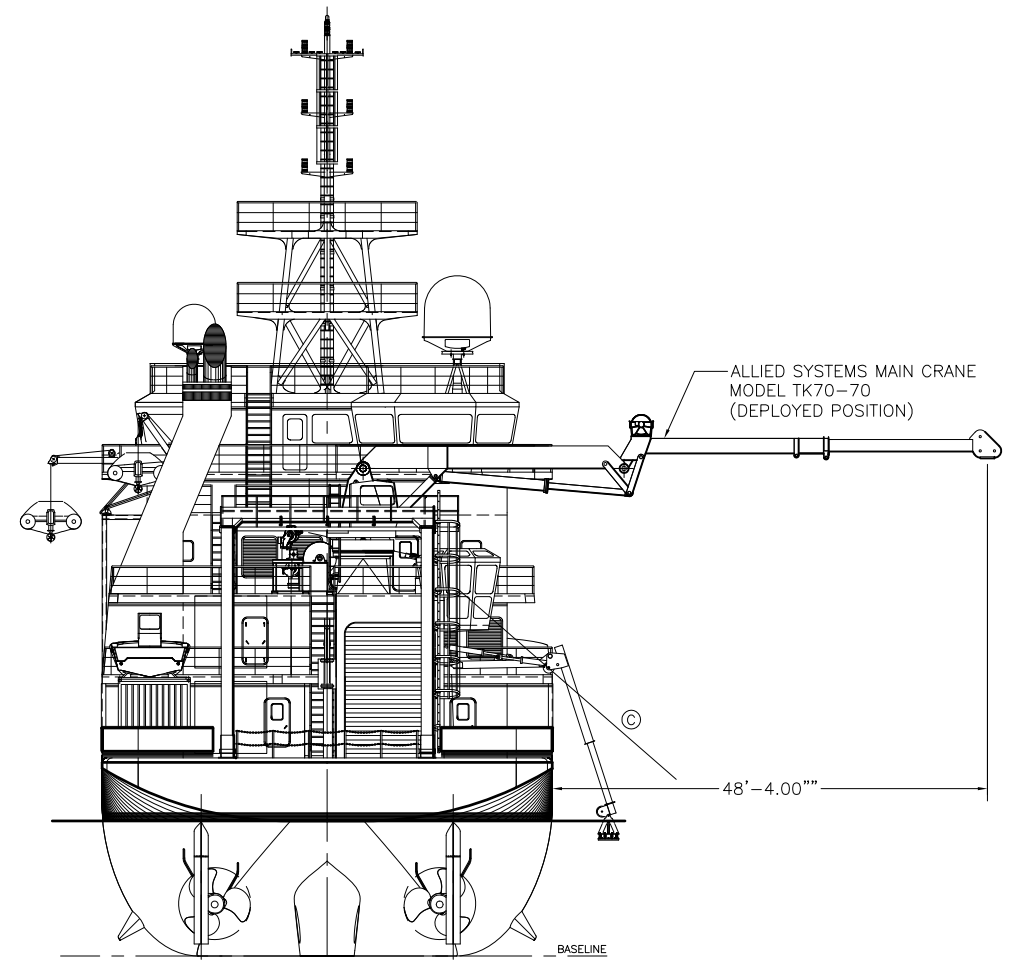
PART PLAN 2-5C
CRANE TOWING CONFIGURATION



SECT 2-6A
CRANE TOWING CONFIGURATION STBD LKG INBD

SIGHT LINES

- A. AFT CONTROL STATION TO FLAG BLOCK.
- B. AFT CONTROL STATION TO TOW PADEYE AND BLOCK.
- C. AFT CONTROL STATION TO OVER THE SIDE.
- D. (NOT SHOWN) AFT CONTROL STATION TO TRACTION WINCH USING VIDEO NETWORK.

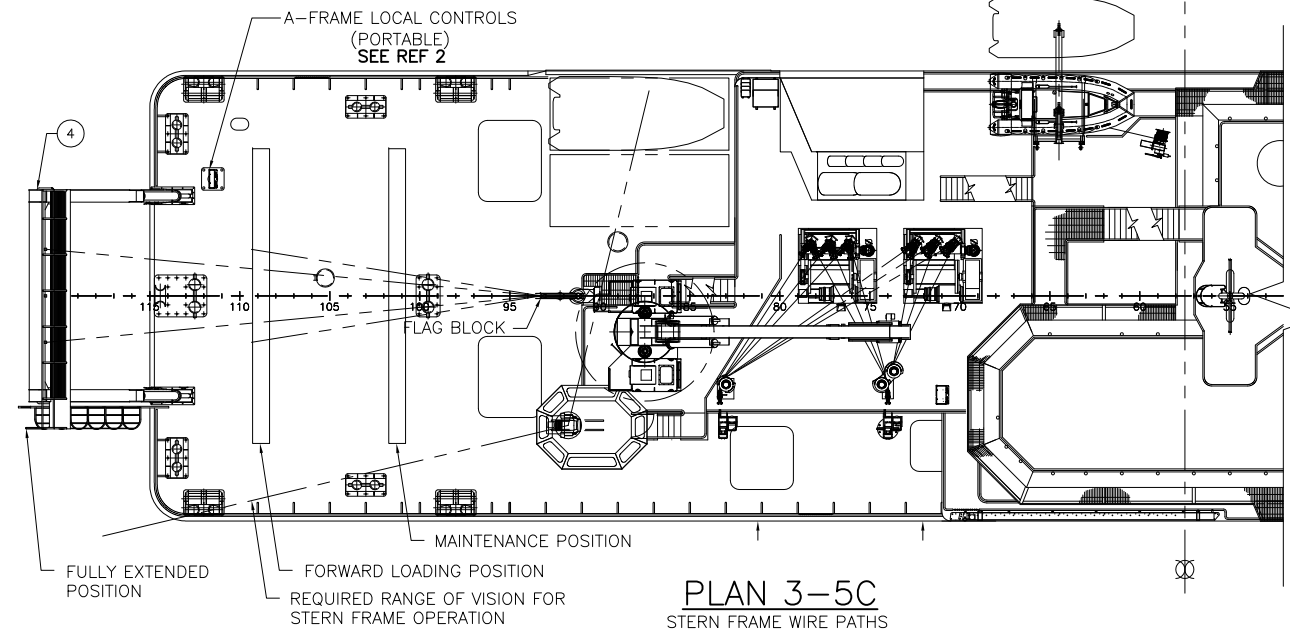


SECT 2-3A
CRANE DEPLOYED TO STBD SIDE LKG FWD

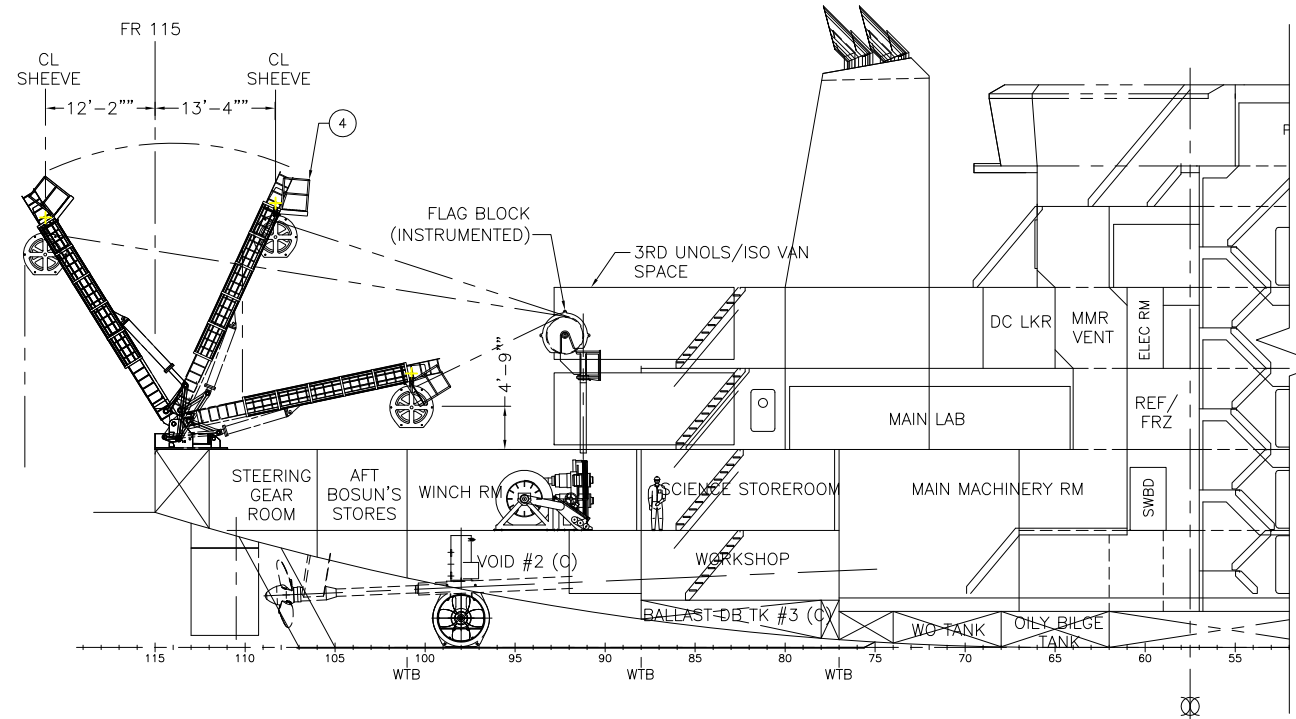
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SHIPBUILDER DAKOTA CREEK INDUSTRIES, Inc.	DWG No. 65411-573-02
NAVSEA DWG No. 8565925	SCALE 3/32" = 1'-0"
SHEET: 2 OF 6	

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PLAN 3-5C
STERN FRAME WIRE PATHS

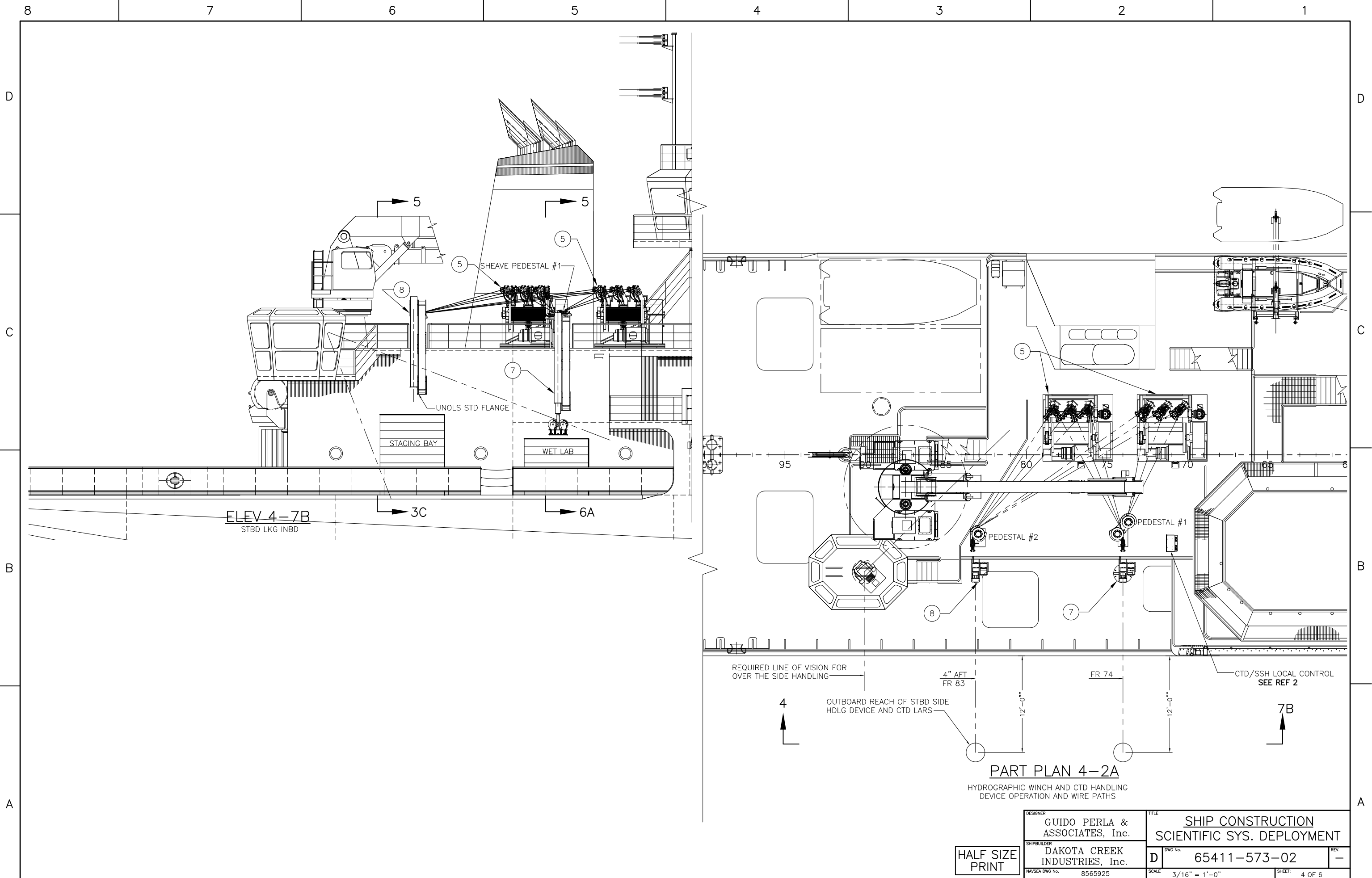


ELEV 3-5A
STERN FRAME WIRE PATHS

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NAVSEA DWG No. 8565925	SCALE 3/32" = 1'-0"
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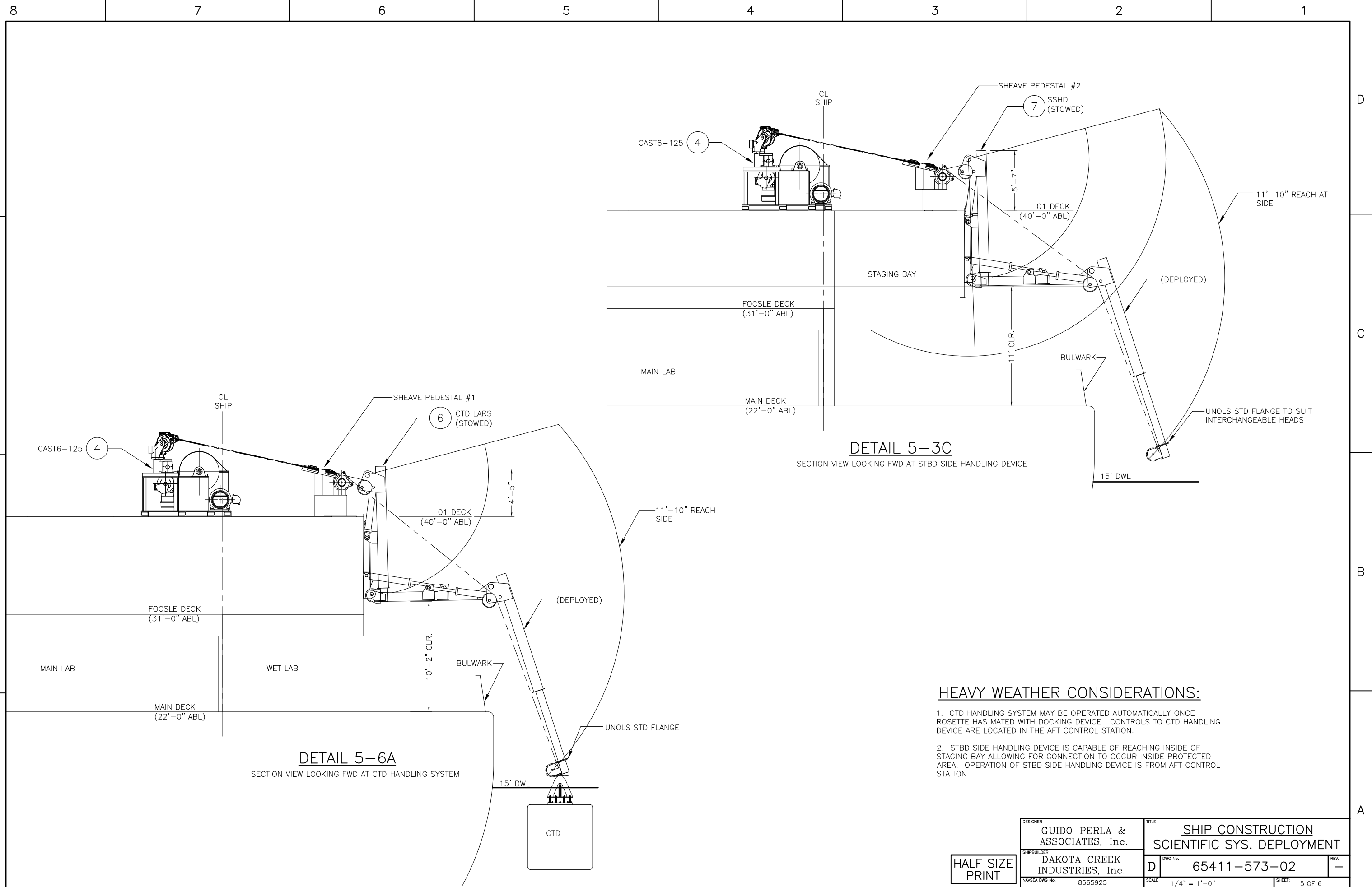
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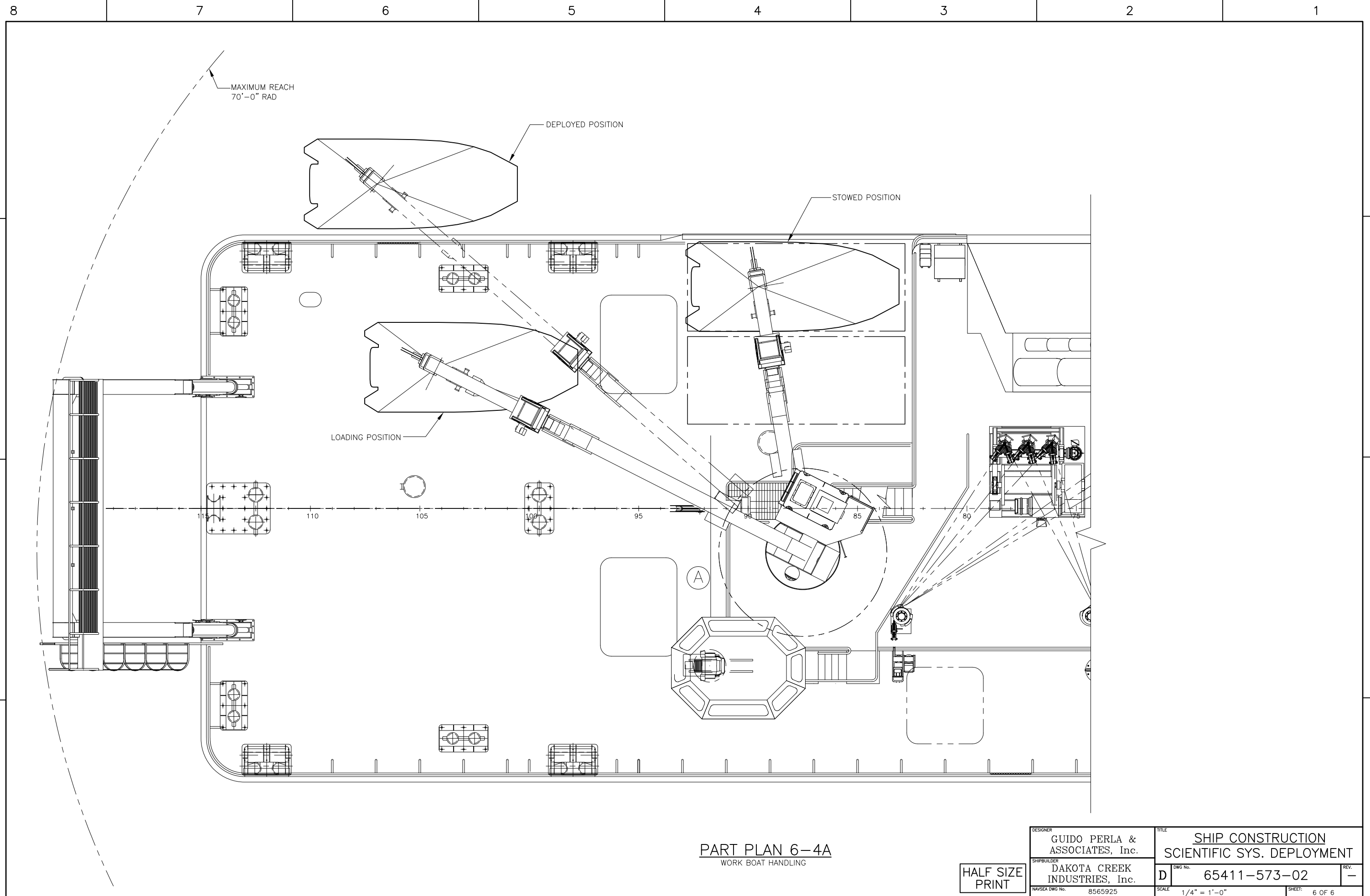
HEAVY WEATHER CONSIDERATIONS:

1. CTD HANDLING SYSTEM MAY BE OPERATED AUTOMATICALLY ONCE ROSETTE HAS MATED WITH DOCKING DEVICE. CONTROLS TO CTD HANDLING DEVICE ARE LOCATED IN THE AFT CONTROL STATION.
2. STBD SIDE HANDLING DEVICE IS CAPABLE OF REACHING INSIDE OF STAGING BAY ALLOWING FOR CONNECTION TO OCCUR INSIDE PROTECTED AREA. OPERATION OF STBD SIDE HANDLING DEVICE IS FROM AFT CONTROL STATION.

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	SHEET 5 OF 6

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PART PLAN 6-4A
 WORK BOAT HANDLING

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NAVSEA DWG No. 8565925	SCALE 1/4" = 1'-0"
	SHEET 6 OF 6