APPROVED BY
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DINTE 6 July 1972

LANCE

MINIMUM REQUIREMENTS FOR THE HANDLING, STOWAGE, AND BRACING ABOARD SHIPS OF HANDLING UNIT, GUIDED MISSILE, XM39EI

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NOTES

GENERAL:

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AMCR 740-13.
- B. THIS DRAWING DEPICTS MINIMUM PROCEDURES APPLICABLE TO THE HANDLING, STOWAGE, AND BRACING ABOARD SHIPS OF HANDLING UNIT, GUIDED MISSILE, XM39E1, WHICH CONSISTS OF THE BASE ASSEMBLY (CRATED) AND BOOM ASSEMBLY (WOODEN CONTAINER), FOR THE LANCE MISSILE SYSTEM.
- C. OTHER TYPES OF CARGO MAY BE STOWED IN THE SAME HOLD OR TWEEN DECK WITH THE ITEMS SHOWN HEREIN.
- D. LADING DATA:
 - 1. BASE ASSEMBLY:

CRATE DIMENSIONS (TYPICAL) ----8'-1" LONG X 6'-4" WIDE X 6'-1" HIGH. GROSS WEIGHT ------1,298 LBS (APPROX). CUBE -----237 CU, FT.

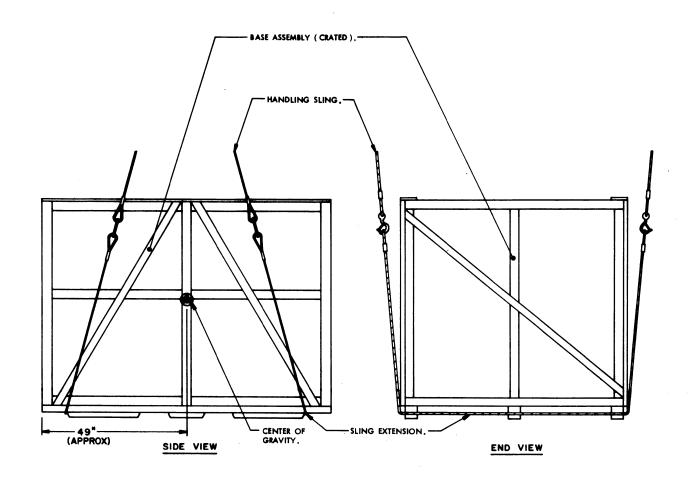
2. BOOM ASSEMBLY:

HANDLING:

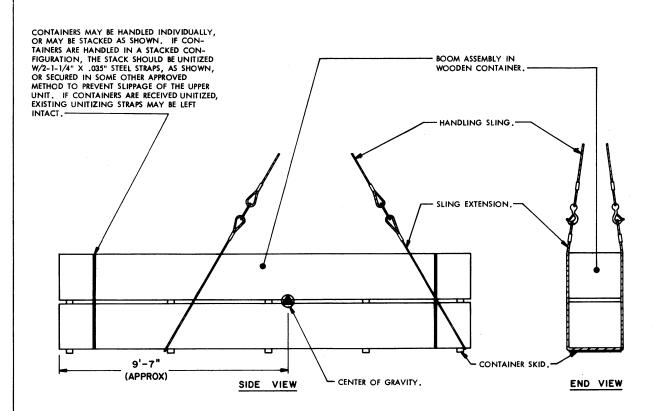
- A. PERTINENT PROVISIONS OF TITLE 46 CODE OF FEDERAL REGULATIONS APPLY.
- B. HANDLING OF THE ITEMS SHOULD BE ACCOMPLISHED BY USING SLING EXTENSIONS SECURELY POSITIONED AGAINST THE SKIDS OF THE ITEMS SHOWN.
- C. EACH BASE ASSEMBLY (CRATED) SHALL BE HANDLED INDIVIDUALLY. STACKING OF CRATED ITEMS IS NOT PERMITTED.
- D. THE BOOM ASSEMBLY (WOODEN CONTAINER) MAY BE HANDLED TWO (2) HIGH IF UNITIZED AS SHOWN ON PAGE 4. STACKING OF CONTAINERS IS LIMITED TO FOUR (4) HIGH
- E. THE HANDLING SLING SHALL BE OF A DESIGN AND CONFIGURATION TO LIFT THE ITEMS IN SUCH A MANNER THAT THE CABLE LEGS DO NOT APPLY EXCESSIVE PRESSURE WHICH MAY DAMAGE THE ITEM.
- F. ALTHOUGH DESIRABLE, A LEVEL LIFT IS NOT MANDATORY. THE CENTERS OF GRAVITY OF THESE ITEMS ARE SHOWN TO ASSIST IN DETERMINING CABLE LENGTHS TO ASSURE A SAFE LIFT.

STOWAGE AND BRACING:

- A. STOWAGE OF THE BASE ASSEMBLY (CRATED) IS RESTRICTED TO ONE (1) LAYER HIGH. STOWAGE OF THE BOOM ASSEMBLY (WOODEN CONTAINER) IS RESTRICTED TO FOUR (4) LAYERS HIGH. HOWEVER, OTHER CARGO ITEMS MAY BE OVER-STOWED BY CONSTRUCTING A DUNNAGE FLOOR ON TOP OF THE DEPICTED CRATES AND/OR CONTAINERS. CAUTION: THE WEIGHT OF OVER-STOWED CARGO MUST NOT CRUSH OR OTHERWISE DAMAGE THE CRATES AND/OR CONTAINERS OF THE ABOVE MENTIONED ITEMS.
- B. SPECIES, GRADE AND SIZE OF LUMBER TO BE USED WILL COMPLY WITH REQUIREMENTS OF CURRENT SHIPWRIGHT-CARPENTRY AND RELATED SERVICES CONTRACTS. BRACING METHODS AND LUMBER SIZES DEPICTED IN THIS DRAWING ARE CONSIDERED MINIMUM AND ARE NOT INTENDED TO CONFLICT WITH CONTRACT REQUIREMENTS.
- C. IF CARGO TRUCKS ARE TO BE LOADED ABOARD SHIP, MORE EFFICIENT UTILIZATION OF SHIP CARGO SPACE WILL BE PROVIDED BY STOWING THE DEPICTED BOOM ASSEMBLY CONTAINERS IN THE CARGO BED OF THE TRUCKS. IF THE LENGTH OF THE CARGO BED PERMITS, ONE, TWO OR THREE BOOM ASSEMBLY CONTAINERS MAY BE STOWED IN THE CARGO BED OF A TRUCK. A TYPICAL STOWAGE AND BRACING PROCEDURE FOR AN M55, 5-TON TRUCK IS SHOWN ON PAGE 6.

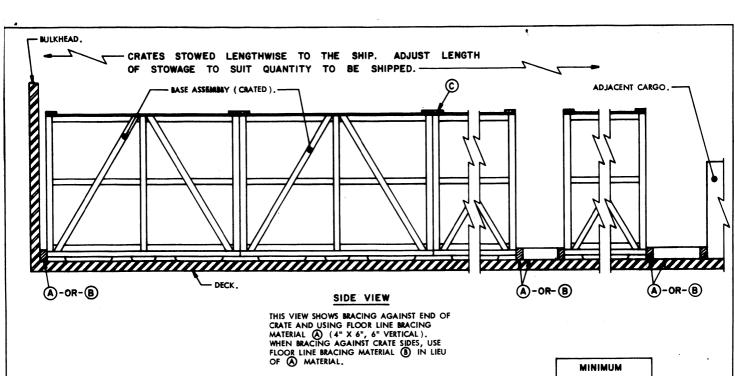


PRECAUTIONARY PROVISIONS FOR HANDLING, STOWAGE AND BRACING AS SPECIFIED IN THE NOTES ON PAGE 2 MUST BE OBSERVED.



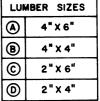
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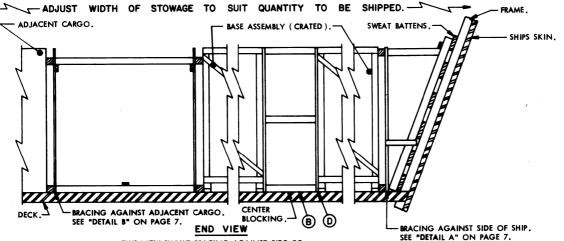
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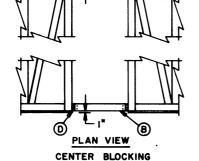
Mariant.

BRACING METHOD I





THIS VIEW SHOWS BRACING AGAINST SIDE OF CRATE AND USING FLOOR LINE BRACING MATERIAL (B) (4" X 4"). WHEN BRACING AGAINST CRATE ENDS, USE FLOOR LINE BRACING MATERIAL (A) (4" X 6", 6" VERTICAL) IN LIEU OF (B) MATERIAL.

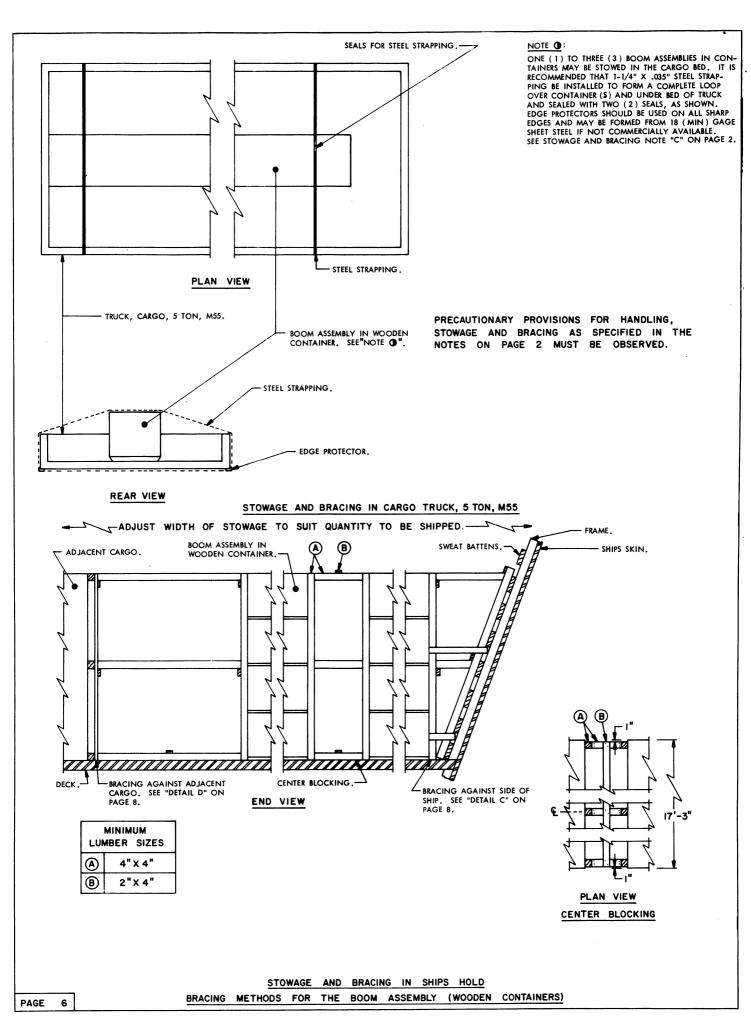


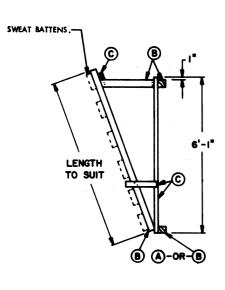
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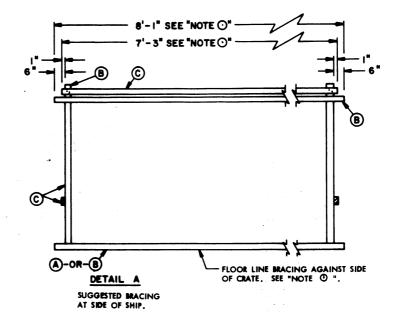
BRACING METHOD II

BRACING METHODS FOR THE BASE ASSEMBLY (CRATED)

PAGE







NOTE ①:

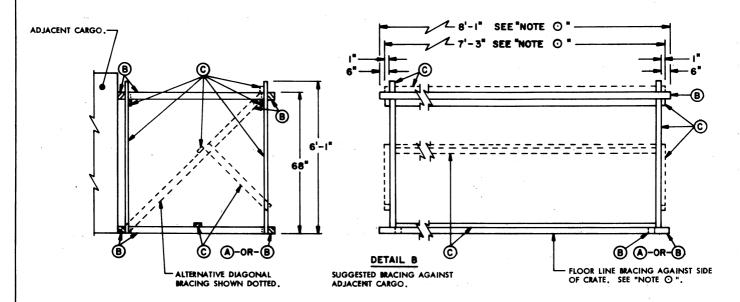
DIMENSIONS SHOWN ARE FOR BRACING AGAINST SIDE
OF CRATE AND USING FLOOR LINE BRACING MATERIAL

B):::180NEN-180A001Ng::AGAINST:-CRATE-180C, CHANGE
DIMENSIONS OF THE BRACING ASSEMBLY. USE 6'-4"
IN LIEU OF 8'-1" AND 6'-6" IN LIEU OF 7'-3". ALSO,
USE FLOOR LINE BRACING MATERIAL

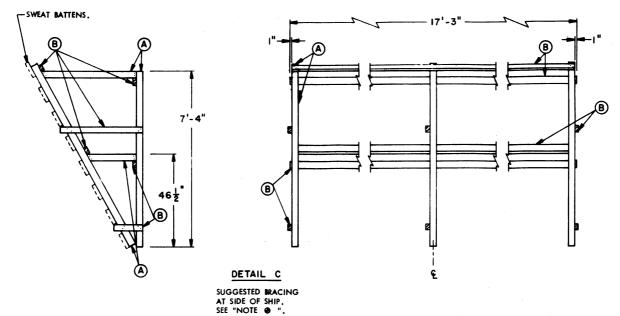
(A" X 6", 6"
VERTICAL) AGAINST CRATE ENDS IN LIEU OF

B)

MINIMUM LUMBER SIZES		
(A)	4" X 6"	
₿	4" X 4"	
0	2" X 4"	



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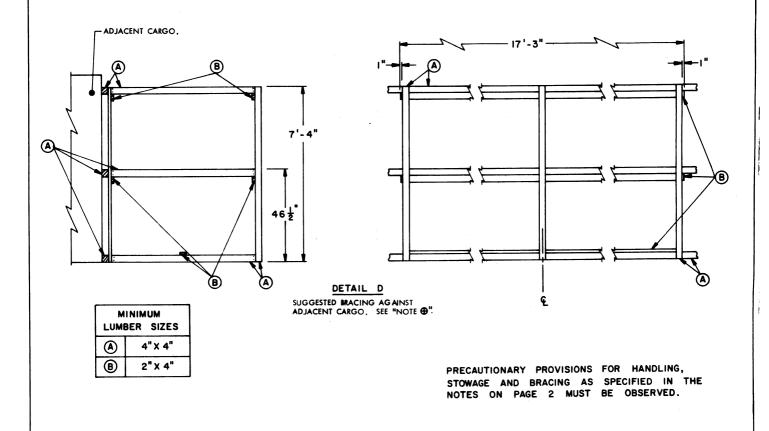


NOTE # :

PAGE

8

THE ASSEMBLIES SHOWN ON THIS PAGE ARE FOR BRACING AGAINST THE CONTAINER SIDE, WHEN CONTAINERS ARE STACKED FOUR (4) LAYERS HIGH. WHEN BRACING AGAINST CONTAINER ENDS, SIMILAR BRACING WILL BE INSTALLED, SO THAT EACH STACK IS PROPERLY SUPPORTED.



DETAILS