

MILITARY STANDARD TRUCKLOADING

MIL-STD-1320-214
(NAVY)

MINE, UNDERWATER MK 55 Configuration A" IN CRATE MK 111 MOD 0

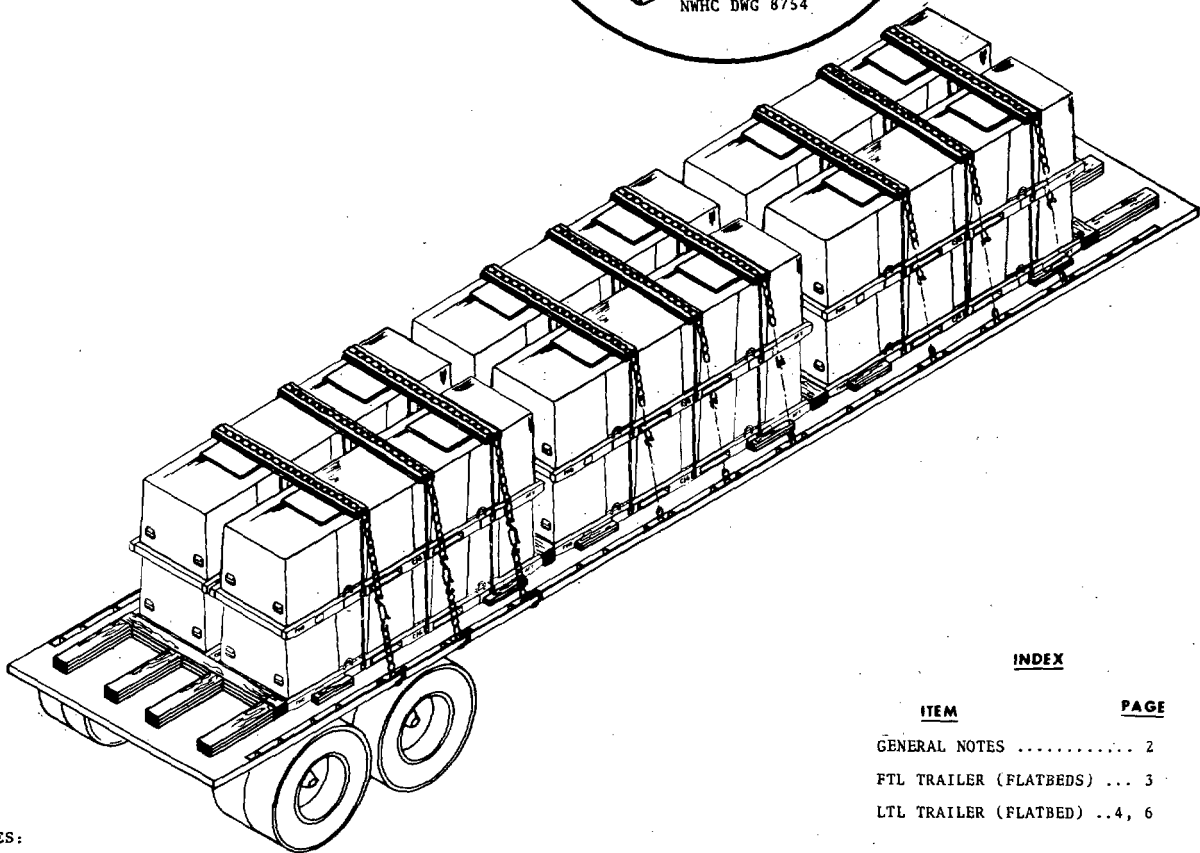
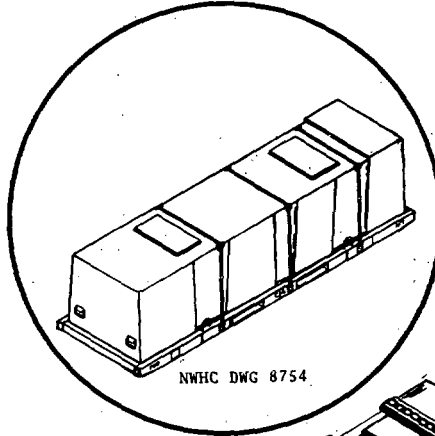
13 SEPTEMBER 1985

CONTAINER DATA

MINES PER CONTAINER 1
 DIMENSIONS 126.6 L X 38.3 W X 34 H
 GROSS WT 2840 LBS^A
 TARE WT 635 LBS
 CUBE 94.8 CU FT

DOT HAZARD CLASSIFICATION EXPL. A

^A DO NOT USE FOR SHIPPING WT.



INDEX

ITEM	PAGE
GENERAL NOTES	2
FTL TRAILER (FLATBEDS) ...	3
LTL TRAILER (FLATBED) ..	4, 6

NOTES:

- UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.
- FOR CROSS REFERENCE TO ASSOCIATED TRUCKLOADING, CONTAINERLOADING AND CARLOADING MILITARY STANDARDS, REFER TO INDEX TO STANDARDS, MIL-HDBK-236 (NAVY).

DISTRIBUTION STATEMENT A

Approved for public release;
distribution is unlimited.

FSC 8140

AUTHORIZED AND RELEASED FOR HIGHWAY SHIPMENT

[Signature] NWHC 11/9/85
 SIGNATURE TECHNICAL DIRECTION AGENT (TDA) DATE
[Signature] 9/12/85
 SIGNATURE BY DIRECTION DATE

ORIGINATOR *[Signature]* 10 April 1985
 NAVAL WEAPONS HANDLING CENTER DATE
 WPNSTA EARLE, NEW JERSEY

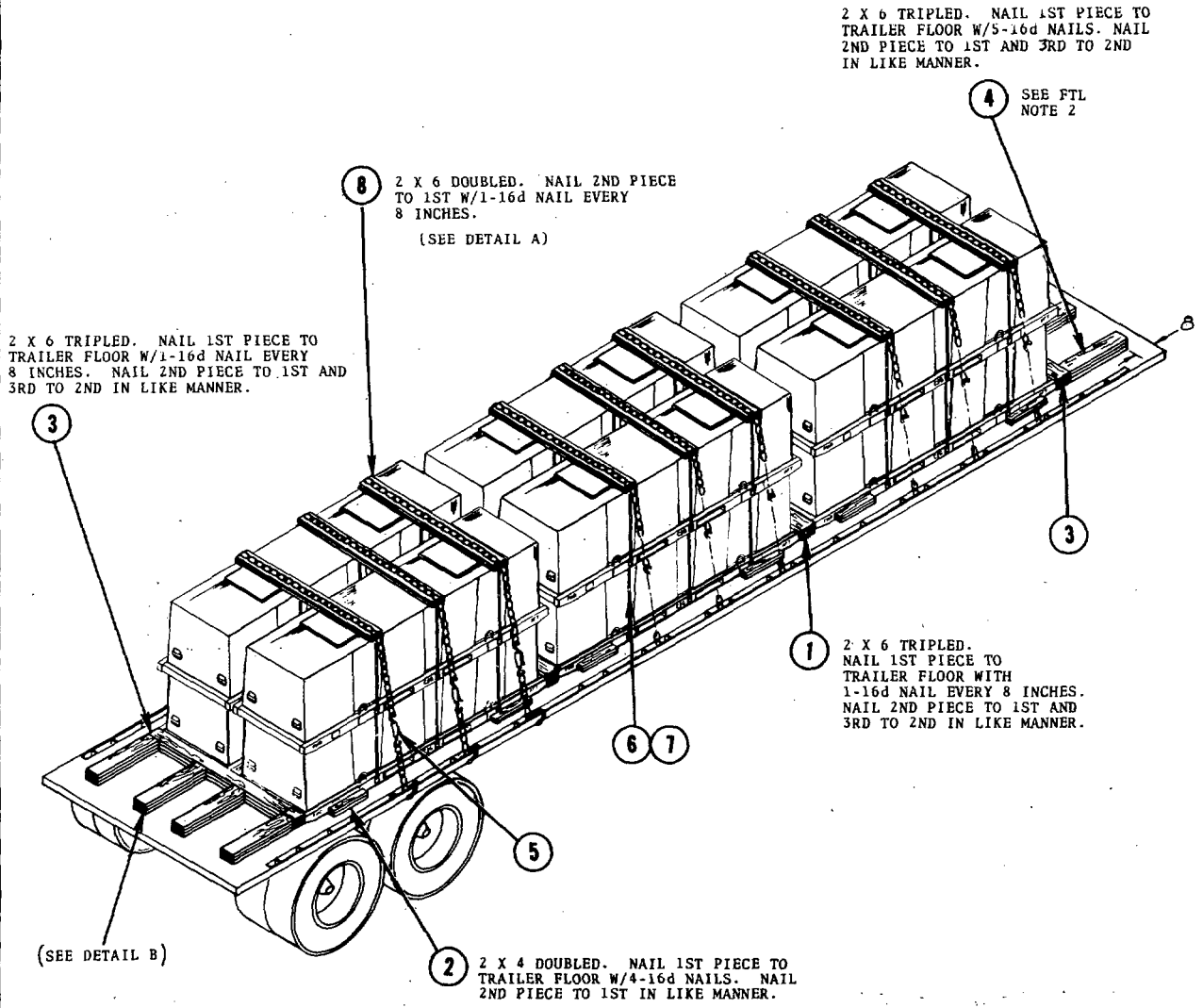
MIL-STD-1320-214 (NAVY)**GENERAL NOTES**

1. THIS DOCUMENT GIVES DETAILED INSTRUCTIONS FOR TRUCKLOADING THE UNDERWATER MINE MK 55 IN MINE CRATE SHIPPING AND STORAGE MK 111 MOD 0 FOR GENERAL TRUCKLOADING PROCEDURES REFER TO THE GENERAL TRUCKLOADING DOCUMENT, MIL-STD-1320.
2. THE PROCEDURES AND PRACTICES DESCRIBED HEREIN ARE INTENDED FOR 40 FT FLATBED TRAILERS WITH THE TRAILERS TANDEM AXLES LOCATED IN THE "WESTERN POSITION" (AT THE EXTREME REAR OF THE TRAILER). DO NOT USE TRAILERS WITH METAL FLOORS.
3. EACH STACK OF CONTAINER IS SECURED TOGETHER WITH TWO 1 1/4 X .035 CROSS STRAPS. THESE STRAPS PASS THROUGH THE FORK POCKETS OF THE TOP CONTAINERS AND RETURN THROUGH THE FORK POCKETS OF THE CONTAINERS IMMEDIATELY BELOW THE TOP CONTAINERS. TENSION STRAPS AND SEAL WITH ONE 1 1/4 SEAL DOUBLE NOTCHED.
4. BOTH CHAINS AND LOAD BINDERS AND STEEL STRAPS SHALL BE USED FOR TIE DOWNS. PROTECTOR BOARDS MUST BE USED (DOUBLED 2 X 6'S) FOR BOTH CHAINS AND STRAPS.
5. ALL STACKS OF CONTAINERS TWO HIGH SHALL HAVE THREE TIE DOWNS. STACKS LESS THAN TWO HIGH SHALL HAVE TWO TIE DOWNS.
6. CHAINS, FITTINGS, LOAD BINDERS, AND ALL OTHER MATERIALS (UNLESS OTHERWISE SPECIFIED) SHALL MEET THE REQUIREMENTS OF THE BASIC TRUCKLOADING DOCUMENT, MIL-STD-1320.
7. PRIOR TO LOADING THE TRAILER AND DURING THE PRELOADING INSPECTION REQUIRED BY NAVSEA OP 2165 AND REPORTED ON DD FORM 626, THE CHAINS, FITTINGS AND LOAD BINDERS SHALL BE INSPECTED FOR STRETCH, GOUGING, BENT LINKS, WEAR AND ANY OTHER NOTICEABLE DEFECTS. THE INSPECTOR SHALL CONFIRM THAT THE CHAINS AND LOAD BINDERS HAVE BEEN INSPECTED AND SHALL SO NOTE IN ITEM NO. 22 OF DD FORM 626. ANY DEFICIENCY SHALL BE CAUSE FOR REJECTION OF A CHAIN OR LOAD BINDER.
8. THE MAXIMUM GROSS WEIGHT OF THE TRACTOR-TRAILER AND THE ALLOWABLE AXLE WEIGHTS ARE THE RESPONSIBILITY OF THE CARRIER. THE CARRIER WILL ADVISE THE SHIPPER OF THESE LIMITATIONS AND THE SHIPPER SHALL LOAD THE TRAILER IN SUCH A MANNER THAT THE TRACTOR-TRAILER WILL NOT EXCEED THESE LIMITATIONS.
9. AFTER BLOCKING AND BRACING HAS BEEN INSPECTED, ATTACH SHIPPING DOCUMENTS TO AN ACCESSIBLE AREA AND ATTACH "EXPLOSIVES A" PLACARDS TO BOTH SIDES, FRONT AND REAR OF THE TRAILER.
10. DUE TO THE CRATE STRUCTURE, THE TIE DOWN CHAINS AND PROTECTOR BOARDS MUST BE PLACED OVER THE COVER RETAINING STRAPS. SEE DETAIL A.

FTL 40 FT & LONGER TRAILER (FLATBED)

1. A FULL TRUCKLOAD CONSISTS OF THREE STACKS OF FOUR CONTAINERS FOR A TOTAL OF 12 CONTAINERS.
2. LOCATE THE END OF THE FORWARD BACKUP CLEAT EIGHT INCHES FROM THE FORWARD EDGE OF THE TRAILER (40 FT). FOR 42 FT TRAILERS LOCATE THE SAME MEMBERS 20 INCHES FROM THE EDGE AND SIMILARLY FOR 44-45 FT TRAILERS, INCREASE THE DISTANCE TO 44 INCHES.

MIL-STD-1320-214 (NAVY)



TRUCKLOAD DATA

NUMBER OF CONTAINERS 12
 NUMBER OF MINES 12
 TL WEIGHT 34,080 LBS

18	8	PROTECTOR BOARD	SEE FIELD NOTE	2 x 6 x 68
6	7	SEAL	SEE NOTE 6 PAGE 2	FOR 1 1/4 STRAP
6	6	CROSS STRAP	SEE NOTE 6 PAGE 2	1 1/4 x 035 x 12 FT
9	5	CHAIN AND LOAD BINDER	SEE NOTE 6 PAGE 2	5/16 OR 3/8
24	4	BACKUP CLEAT	SEE FIELD NOTE	2 x 6 x 32
6	3	CROSSMEMBER	SEE FIELD NOTE	2 x 6 x 77
16	2	SLEEPER	SEE FIELD NOTE	2 x 4 x 18
12	1	CROSSMEMBER	SEE FIELD NOTE	2 x 6 x 77

REQ'D	ITEM	DESCRIPTION	MAT'L/DWG	DIMENSIONS
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LIST OF MATERIALS

MIL-STD-1320-214 (NAVY)

LTL 40 FT & LONGER TRAILER (FLATBED)

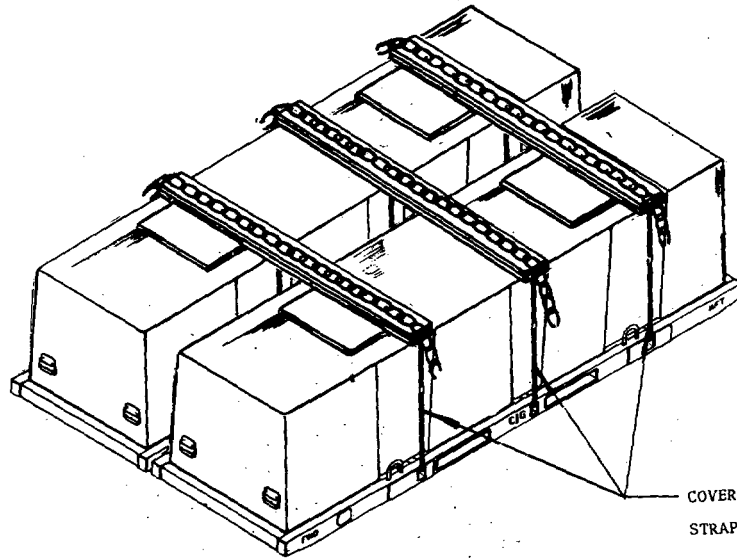
1. WHEN REQUIRED TO SHIP LESS-THAN-TRUCKLOAD, SELECT THE CORRECT LOAD PATTERN FOR THE NUMBER OF CONTAINERS TO BE SHIPPED FROM TABLE 1.
2. ELEVEN OR SEVEN CONTAINERS CREATES A STACK UNEVEN IN HEIGHT AND SHOULD NOT BE SHIPPED BECAUSE OF TIE DOWN PROBLEMS.
3. POSITION CONTAINERS ON TRAILER AS SHOWN IN TABLE. BLOCK AND TIE DOWN USING THE PRINCIPLES SHOWN ON PAGES 3 AND 5 AND THE GENERAL DOCUMENT, MIL-STD-1320.
4. THE LTL PLAN SHOWN ON PAGE 5 IS THE CORRECT LESS-THAN-TRUCKLOAD FOR THE QUANTITY OF CONTAINERS SHOWN. THIS DOES NOT LIMIT SHIPMENTS TO THIS QUANTITY, SINCE LTL SHIPMENTS MAY CONSIST OF A LESSER NUMBER OF CONTAINERS.
5. REDUCE WIDTH OF AFT CROSSMEMBER TO 38 1/2 INCHES AND USE TWO INSTEAD OF FOUR SETS OF BACKUP CLEATS FOR LTL'S OF 9, 5, 3 AND 1 CONTAINERS. THE FWD CROSSMEMBER FOR 1 CONTAINER WILL ALSO BE 38 1/2 INCHES.

TABLE 1
LOAD PATTERN*

NO. OF CONTAINERS	FWD	NO. OF CONTAINERS	FWD
10		4	
9		3	
8		2	
6		1	
5			

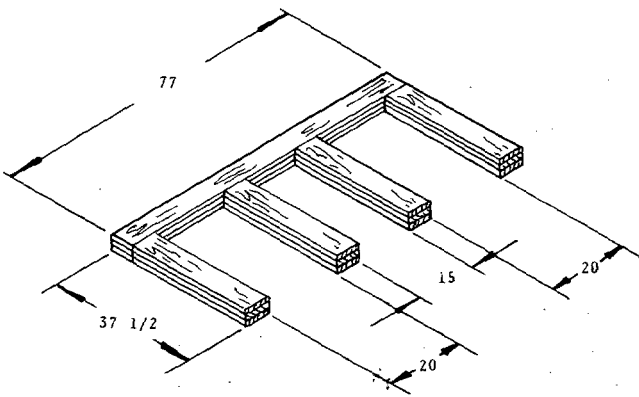
* LOAD PATTERN SHOWS FLOOR PLAN FOR TRAILER.
NUMBER INDICATES THE NUMBER OF CONTAINERS IN A LAYER.

MIL-STD-1320-214 (NAVY)

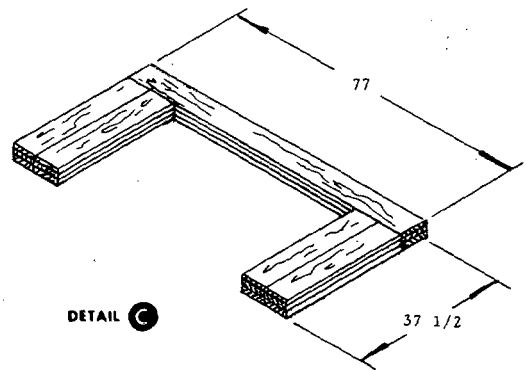


DETAIL A

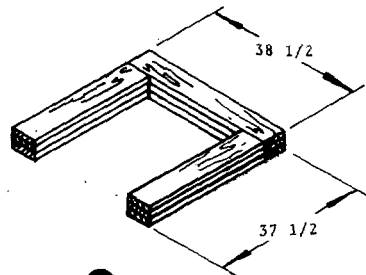
NOTE - PROTECTOR BOARDS AND TIE DOWN CHAINS/STRAPS ARE PLACED DIRECTLY OVER COVER STRAPS.



DETAIL B

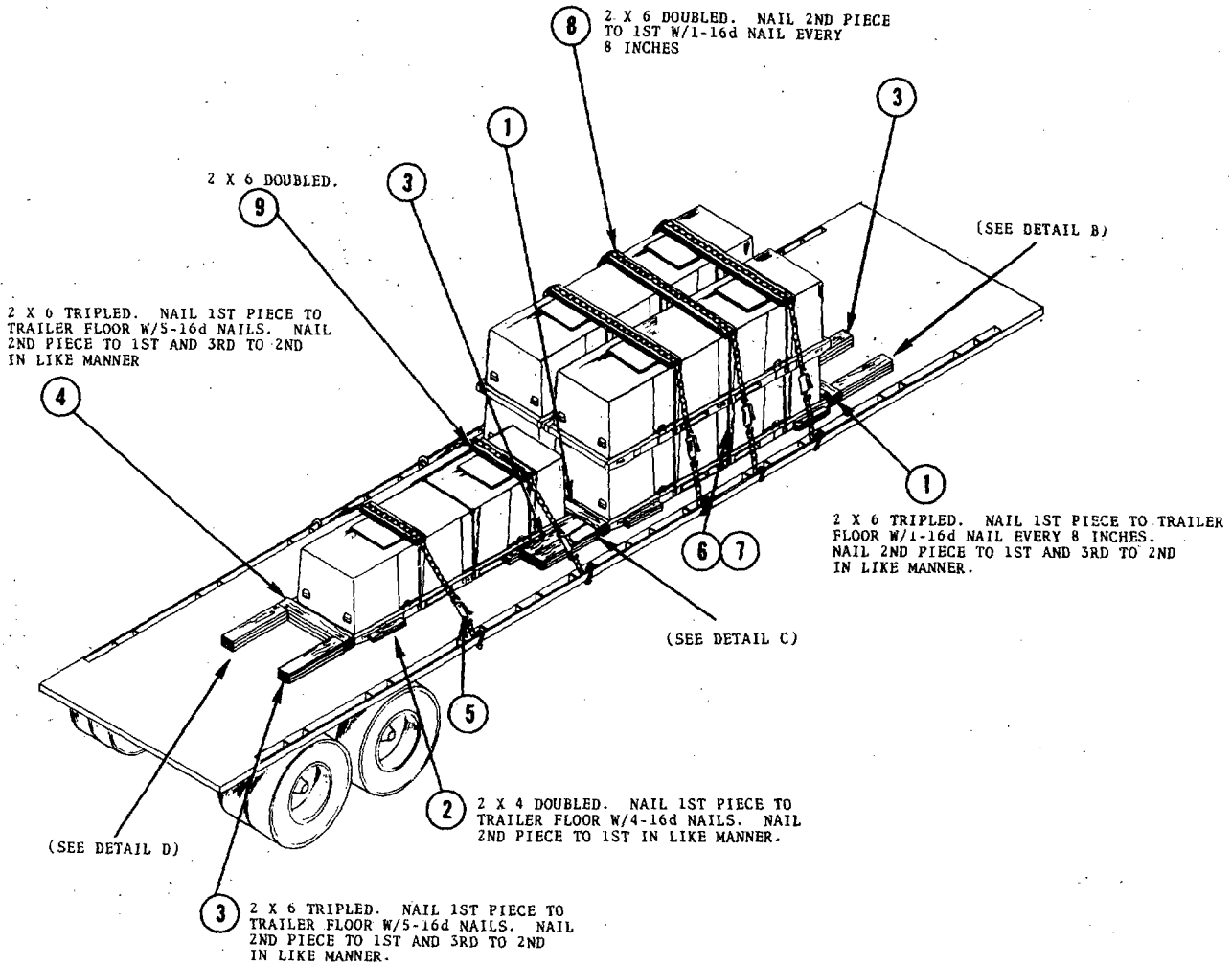


DETAIL C



DETAIL D

MIL-STD-1320-214 (NAVY)



TRUCKLOAD DATA

NUMBER OF CONTAINERS 5
 NUMBER OF MISSILES 5
 WEIGHT (APPROX.) 14,200 LBS.

4	9	PROTECTOR BOARD	SEE FIELD NOTE	2 x 6 x 30
6	8	PROTECTOR BOARD	SEE FIELD NOTE	2 x 6 x 68
2	7	SEAL	SEE NOTE 6 PAGE 2	FOR 1 1/4 STRAP
2	6	CROSS STRAP	SEE NOTE 6 PAGE 2	1 1/4 x 035 x 12 FT
5	5	CHAIN AND BINDER	SEE NOTE 6 PAGE 2	5/16 OR 3/8
3	4	CROSSMEMBER	SEE FIELD NOTE	2 x 6 x 39
24	3	BACKUP CLEAT	SEE FIELD NOTE	2 x 6 x 32
16	2	SLEEPER	SEE FIELD NOTE	2 x 4 x 18
9	1	CROSSMEMBER	SEE FIELD NOTE	2 x 6 x 77
REQ'D	ITEM	DESCRIPTION	MAT'L/DWG	DIMENSIONS

LIST OF MATERIALS

LTL 40 FT & LONGER TRAILER (FLATBED)

REVIEW ACTIVITY:
 NAVY-OS
 PAGE 6

PREPARING ACTIVITY:
 NAVY-OS
 (PROJECT NO. 8140-602)