

MILITARY STANDARD

MIL-STD 1320-200.1

TRUCKLOADING

(NAVY)

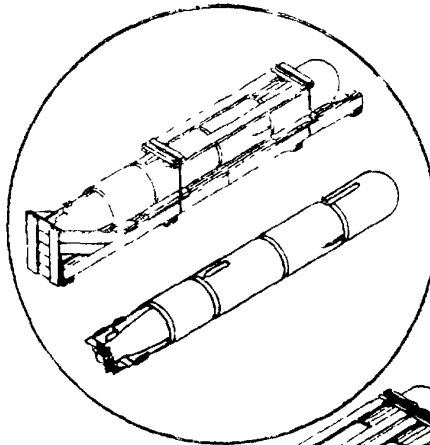
TORPEDO, DUMMY & EXERCISE MK 37 MOD 2 AND MOD 3 IN SHIPPING & STORAGE SKID OR BARE

30 MAY 1996

SUPERSEDED BY
MIL-STD-1320 200 (NAVY)
23 FEBRUARY 1979

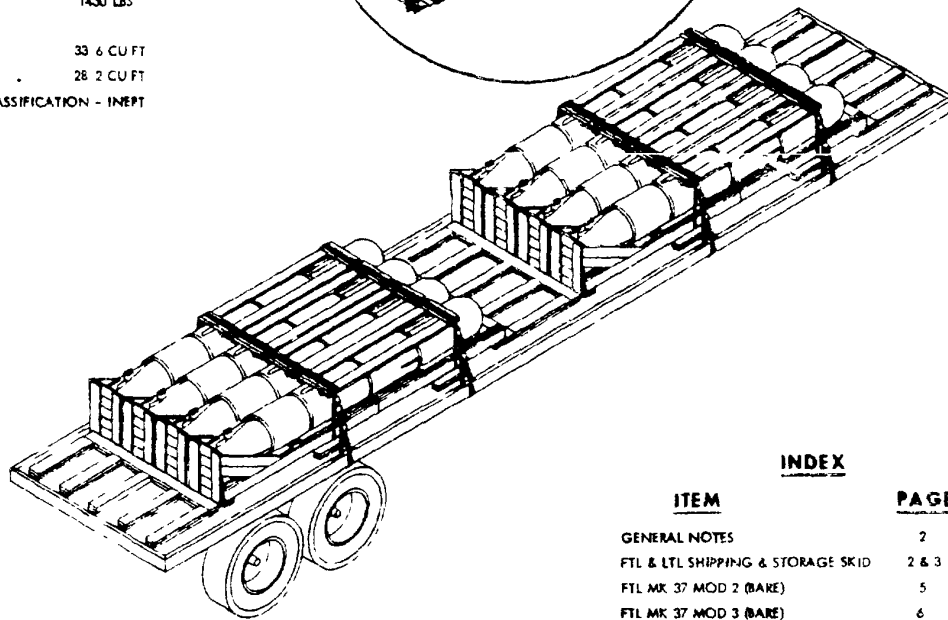
TORPEDO IN SHIPPING & STORAGE SKID DATA

DIMENSIONS 17' 5L X 19' 5W X 30' 25H
TARE WEIGHT (APPROX) 227 LBS
GROSS WEIGHT (APPROX)
W/MK 37 MOD 2 1917 LBS
W/MK 37 MOD 3 1657 LBS
CUBE 59.9 CU FT
DOT HAZARD CLASSIFICATION INERT



TORPEDO (BARE) DATA

DIAMETER 19
LENGTH
MK 37 MOD 2 161
MK 37 MOD 3 135
WEIGHT (APPROX)
MK 37 MOD 2 1690 LBS
MK 37 MOD 3 1430 LBS
CUBE
MK 37 MOD 2 33.6 CU FT
MK 37 MOD 3 28.2 CU FT
DOT HAZARD CLASSIFICATION - INERT



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NOTES
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
2 FOR CROSS REFERENCE TO ASSOCIATED PALLETIZING, CONTAINER-LOADING AND CARLOADING MILITARY STANDARDS REFER TO INDEX TO STANDARDS, MIL-HDBK-236

FSC 8140

**AUTHORIZED AND RELEASED
FOR HIGHWAY SHIPMENTS
ONLY**

W. J. Gray 27 May 1996
INITIALS TELEPHONICAL DIRECTION AGENT (TU) DATE
SIGNATURE SEASYS/COM BY DIRECTION DATE

ORIGINATOR *W. J. Gray* 27 May 1996
NAVAL WEAPONS HANDLING CENTER
W/PLATA EARLE, NEW JERSEY DATE
PAGE 1 OF 7

MIL-STD-1320-200A (NAVY)

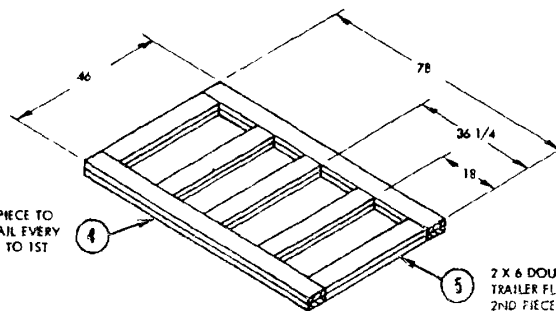
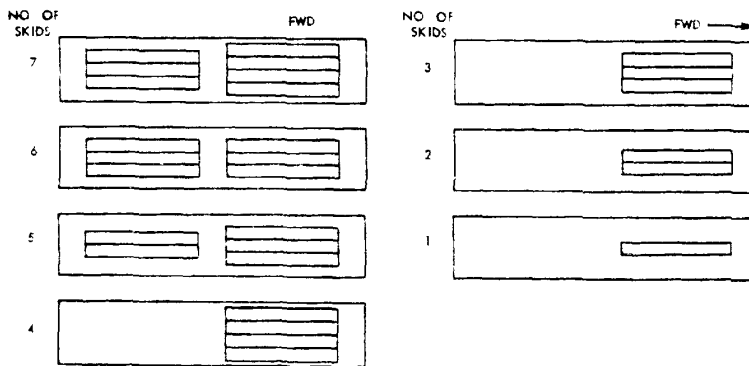
GENERAL NOTES

- 1 THIS DOCUMENT PROVIDES DETAILED INSTRUCTIONS FOR TRUCKLOADING THE MK 37 MOD 2 AND 3 DUMMY AND EXERCISE TORPEDO IN THE SHIPPING AND STORAGE SKID OR BARE ON CHOCKS
- 2 THE PROCEDURE AND PRACTICES CONTAINED HEREIN ARE INTENDED FOR 40 FT FLATBED TRAILERS THE TRAILERS SHALL HAVE THEIR TANDEM AXLES LOCATED IN THE "WESTERN" POSITION (AT THE EXTREME REAR OF THE TRAILER) AND HAVE NAILABLE FLOORS
- 3 DOUBLE FLATBED TRAILERS MAY BE USED, STATE LAWS PERMITTING, BY LOADING ONE STACK OF TORPEDOES PER TRAILER USING THE APPROPRIATE PRINCIPLES OF THIS DOCUMENT
- 4 ONLY STEEL STRAPS SHALL BE USED FOR TIE DOWNS STRAPS SHALL BE 2 X 050 AND SHALL BE APPLIED AS SPECIFIED IN THE BASIC TRUCKLOADING DOCUMENT MIL-STD-1320 AND PAGES 3, 5 OR 6 OF THIS DOCUMENT
- 5 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 THEY WILL NOT BE EXCEEDED
- 6 AFTER THE BLOCKING BRACING AND TIE DOWNS HAVE BEEN INSPECTED, ATTACH SHIPPING DOCUMENTS TO THE DUNNAGE IN AN ACCESSIBLE AREA
- 7 ALL READY FOR ISSUE (RFI) DUMMY OR EXERCISE TORPEDOES SHALL BE COMPLETELY COVERED WITH A WATERPROOF TARPULIN
- 8 UNLESS OTHERWISE SPECIFIED ALL MATERIAL SHALL BE SPECIFIED BY THE GENERAL TRUCKLOADING DOCUMENT, MIL-STD-1320
- 9 FOR GENERAL TRUCKLOADING PROCEDURES, REFER TO THE GENERAL TRUCKLOADING DOCUMENT MIL-STD-1320

**FTL & LTL 40 FT FLATBED TRAILER
TORPEDO IN SHIPPING & STORAGE SKID**

- 1 THE MK 37 MOD 2 OR MOD 3 DUMMY OR EXERCISE TORPEDO SHALL BE IN THE SHIPPING AND STORAGE SKID, DRAWING NO. NWHC 8109
- 2 A FULL TRUCKLOAD CONSISTS OF EIGHT (8) SKIDS LESS THAN THIS AMOUNT MAY BE SHIPPED USING THE LOAD PATTERN IN TABLE I ADJUSTING BLOCKING WIDTH TO SUIT
- 3 DO NOT MIX MK 37 MOD 2 AND 3 SKIDDED TORPEDOES IN THE SAME STACK A STACK OF MOD 2 AND A STACK OF MOD 3 TORPEDOES MAY BE SHIPPED ON THE SAME TRAILER

TABLE I
LOAD PATTERN

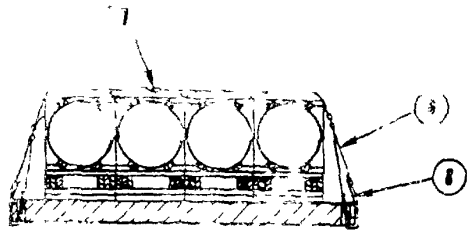


4 2 X 6 DOUBLED NAIL 1ST PIECE TO TRAILER FLOOR W/1-16d NAIL EVERY 8 INCHES NAIL 2ND PIECE TO 1ST IN LIKE MANNER

5 2 X 6 DOUBLED NAIL 1ST PIECE TO TRAILER FLOOR W/5-16d NAILS NAIL 2ND PIECE TO 1ST IN LIKE MANNER

DETAIL A
SEPARATOR ASSEMBLY
(INSTALL IN PLACE)

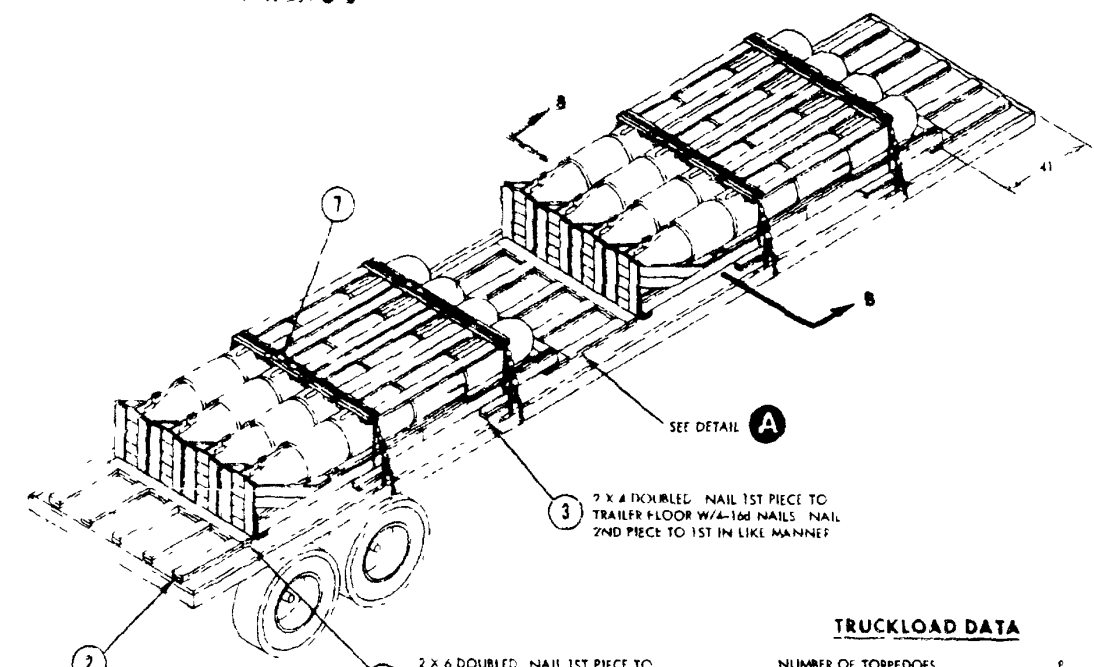
MIL-STD-1370 200A (NAVY)



SECTION B-B

NOTE

TARPAULIN OMITTED FOR CLARITY



2 X 6 DOUBLED NAIL 1ST PIECE TO TRAILER FLOOR W/4-16d NAILS NAIL 2ND PIECE TO 1ST IN LIKE MANNER

2 X 6 DOUBLED NAIL 1ST PIECE TO TRAILER FLOOR W/4-16d NAIL EVERY 8 INCHES NAIL 2ND PIECE TO 1ST IN LIKE MANNER

2 X 4 DOUBLED NAIL 1ST PIECE TO TRAILER FLOOR W/4-16d NAILS NAIL 2ND PIECE TO 1ST IN LIKE MANNER

TRUCKLOAD DATA

NUMBER OF TORPEDOES	8
WEIGHT (APPROX.)	
MK 37 MOD 2	15336 LBS
MK 37 MOD 3	13256 LBS

PIECE NO	DESCRIPTION	SIZE	NO. PCS REQ'D	NAIL TO	NUMBER NAILS	SIZE
8	PAD (STEEL STRAP)	2 X .050 X 18	6	-	-	-
7	SEAL	FOR 2" STRAP	32	-	-	-
6	STEEL STRAP	2 X .050 X 18 FT	4	-	-	-
5	STRUT	2 X 6 X 35	10			SEE DETAIL A
4	CROSSMEMBER	2 X 6 X 78	4			SEE DETAIL A
3	SLEEPER	2 X 4 X 18	16			SEE FIELD NOTE
2	BACKUP CLEAT	2 X 6 X 35	20			SEE FIELD NOTE
1	CROSSMEMBER	2 X 6 X 78	4			SEE FIELD NOTE

LIST OF MATERIALS & NAILING DATA

CL 45 FT TRAILER
 X-C 7' AND 12' & 3' FITMENT OR DUMMY TORPEDOES
 IN SHIPPING AND STD. NO. 5710

MIL STD-1330-200A (NAVY)

FIL & LIL 40 FT FLATBED TRAILER - BARE TORPEDO ON CHOCKS

1. A FULL TRUCKLOAD FOR A TRAILER CONSISTS OF EIGHT (8) TORPEDOES (BARE). LESS THAN THIS AMOUNT MAY BE SHIPPED BY MODIFYING THE TOP AND BOTTOM CHOCKS TO SUIT THE QUANTITY BEING SHIPPED. THE METHOD AND NUMBER OF TIE-DOWNS SHALL BE THE SAME IN ALL CASES.
2. PRIOR TO LOADING THE TORPEDOES, THE BOTTOM CHOCK ASSEMBLIES SHALL BE PREPOSITIONED ON THE TRAILER AND NAILED TO THE TRAILER FLOOR. WHEN LOADING MK 37-2 TORPEDOES, USE DETAIL H FOR PROPER LOCATION OF BOTTOM CHOCK ASSEMBLIES ON TRAILER FLOOR. WHEN LOADING MK 37-3 TORPEDOES USE DETAIL J.
3. WHEN POSITIONING THE TORPEDOES ON THE CHOCKS, THE JOINT BANDS OF THE TORPEDO SHALL REST ON THE CHOCKS.

WARNING

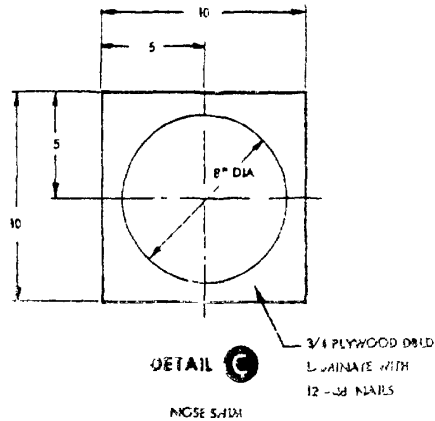
WHEN LOWERING THE TORPEDO ONTO THE CHOCKS, EXERCISE CARE TO SEE THAT THE BOTTOM RUNNER IS IN THE SLOT PROVIDED IN THE CHOCKS.

4. WHEN SHIPPING EXERCISE TORPEDOES THE TRANSDUCER IN THE NOSE OF THE TORPEDO SHALL BE PROTECTED FROM BEARING AGAINST THE KNEE BRACE, DETAIL E OR G. THIS IS ACCOMPLISHED BY POSITIONING SHIM, DETAIL C, BETWEEN TORPEDO AND KNEE BRACE WITH HOLE CENTERED AROUND THE TRANSDUCER, HAND FIT SHIM TO EXACT LOCATION AND NAIL TO KNEE BRACE WITH EIGHT (8) 10d NAILS BEFORE NAILING KNEE BRACE TO TRAILER FLOOR.

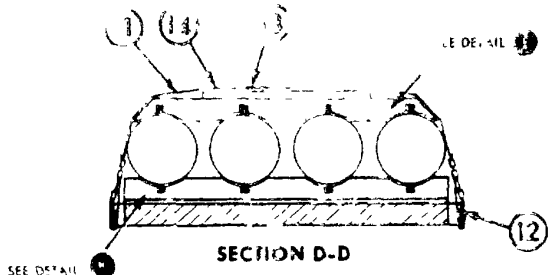
WARNING

TRANSDUCER MUST BE CENTERED WITHIN HOLE OF KNEE BRACE TO PREVENT DAMAGE TO THE TRANSDUCER.

5. THE RUBBER PADS SHOULD BE SYNTHETIC RUBBER, MIL-F-8855 CL 2 GR 80 TYPE A AND BONDED TO THE CHOCKS WITH ADHESIVE, MMM-A-1617 TYPE 1.

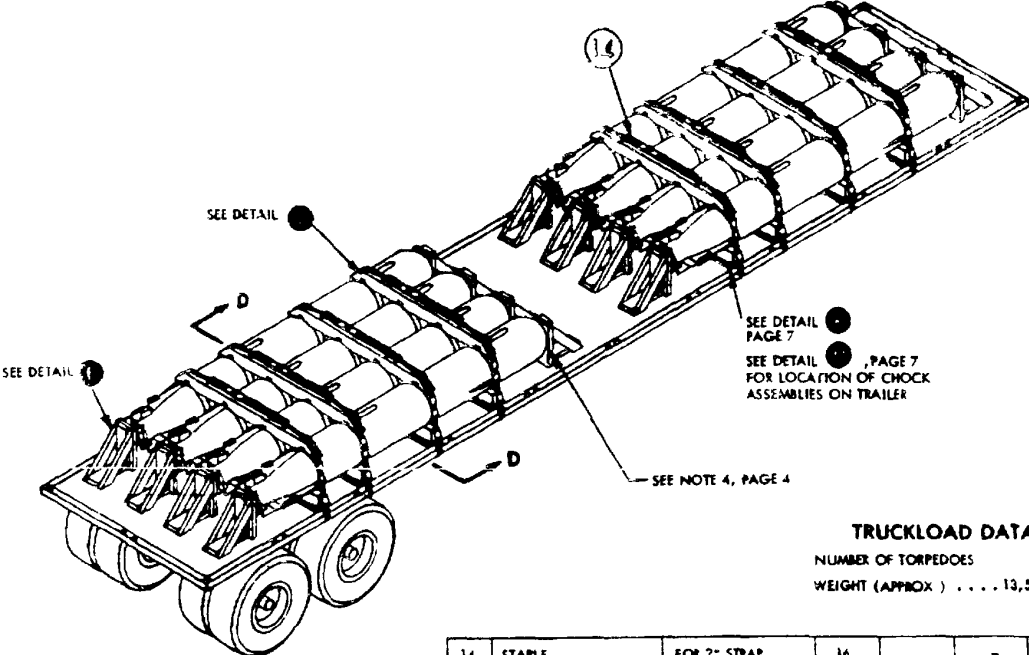


MIT, D-9320 200A (NATO)



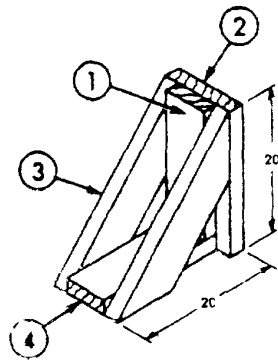
NOTE

TARPAULIN OMITTED FOR CLARITY



TRUCKLOAD DATA

NUMBER OF TORPEDOES 8
WEIGHT (APPROX) 13,520 LBS



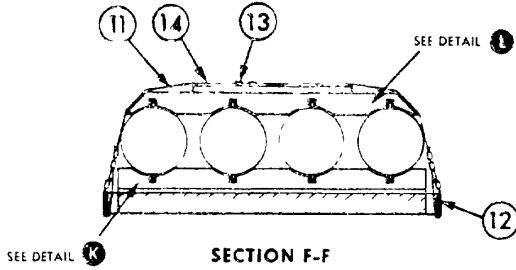
DETAIL 1
KNEE BRACE
16 REQUIRED

14	STAPLE	FOR 2" STRAP	16		-	-
13	SEAL	FOR 2" STRAP	64	-	-	-
12	PAD (STEEL STRAP)	2 X 050 X 18	16	-	-	-
11	STEEL STRAP	2 X 050 X 16 FT 6	8	-	-	-
10	CLEAT	2 X 4 X 44	8	8	4	10d
9	PAD, RUBBER	1/4 X 3 1/2 X 5	64	SEE NOTE 5, PAGE 4		
8	CHOCK, TOP	4 X 6 X 85	8	SEE 10	-	-
7	PAD, RUBBER	1/4 X 3 1/2 X 5	64	SEE NOTE 5, PAGE 4		
6	CHOCK, BOTTOM	4 X 6 X 90	8	SEE 5	-	-
5	BASE, CHOCK	2 X 6 X 90	8	6	8	16d
4	BRACE, CLEAT	2 X 6 X 18 1/2	16	TRAILER FLOOR	6	16d
3	BRACE, DIAGONAL	2 X 6 TO SUIT	32	1 & 4	4/JOINT	16d
2	BRACE, BACKUP	2 X 10 X 20	16	4	3	16d
1	BRACE, UPRIGHT	2 X 6 X 18 1/2	16	2	6	10d
PIECE NO	DESCRIPTION	SIZE	NO OF PIECES REQ'D	NAIL TO	NUMBER	SIZE OF NAILS

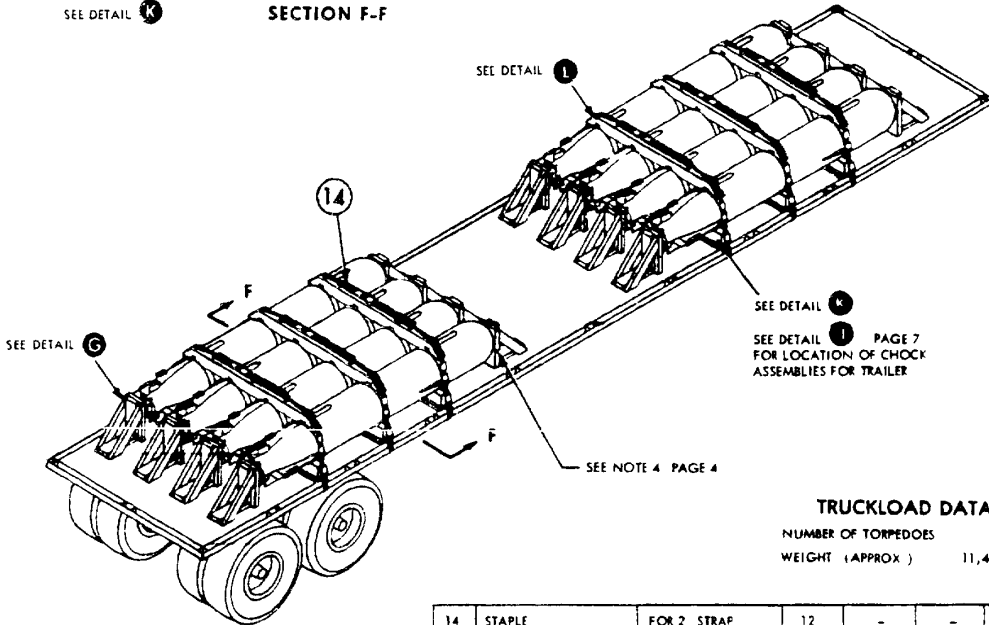
LIST OF MATERIALS CALLING DATA

FTL 40 FT TRAILER
MAXIMUM 2 FITMENT OR DUMMY TORPEDO

MIL-STD 1320-200A (NAVY)



NOTE
TARPAULIN OMITTED FOR CLARITY

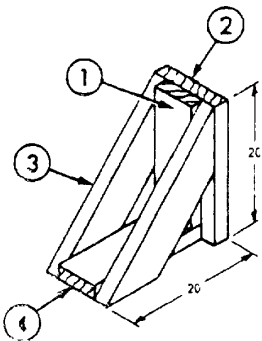


TRUCKLOAD DATA

NUMBER OF TORPEDOES 8
WEIGHT (APPROX) 11,440 LBS

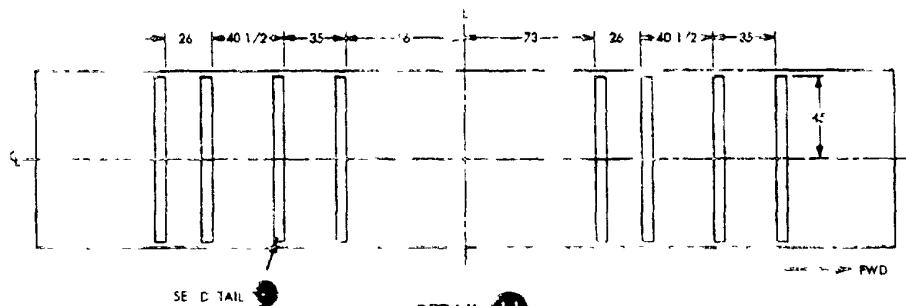
14	STAPLE	FOR 2 STRAP	12	-	-	-
13	SEAL	FOR 2 STRAP	48	-	-	-
12	PAD (STEEL STRAP)	2 X 0.50 X 18	12	-	-	-
11	STEEL STRAP	2 X 0.50 X 16 FT 6	6	-	-	-
10	CLEAT	2 X 4 X 44	6	8	4	10d
9	PAD RUBBER	1/4 X 3 1/2 X 5	48	SEE NOTE 5, PAGE 4		
8	CHOCK TOP	4 X 6 X 85	6	SEE 10	-	-
7	PAD RUBBER	1/4 X 3 1/2 X 5	48	SEE NOTE 5 PAGE 4		
6	CHOCK BOTTOM	4 X 6 X 90	6	SEE 5	-	-
5	BASE CHOCK	2 X 6 X 90	6	6	8	16d
4	BRACE CLEAT	2 X 6 X 18 1/2	16	TRAILER FLOOR	6	16d
3	BRACE DIAGONAL	2 X 6 TO SUIT	32	1 & 4	4/JOINT	16d
2	BRACE BACKUP	2 X 10 X 20	16	4	3	16d
1	BRACE UPRIGHT	2 X 6 X 18 1/2	16	2	6	10d
PIECE NO	DESCRIPTION	SIZE	NO OF PIECES REQ'D	NAIL TO	NUMBER	SIZE
					NAILS	

LIST OF MATERIALS & NAILING DATA



DETAIL G
KNEE BRACE
16 REQUIRED

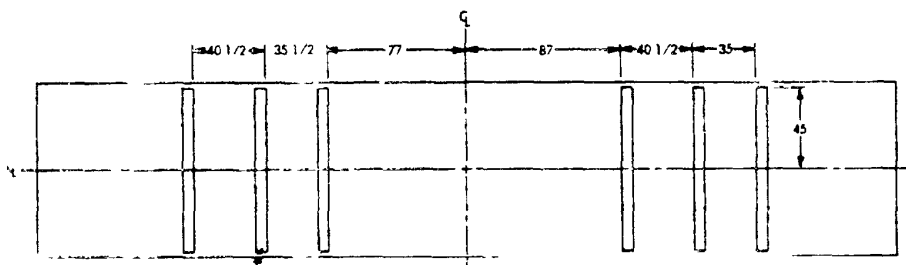
NAVY 10-1320-20-1A (NAVY)



SEE DETAIL **K**

DETAIL **H**

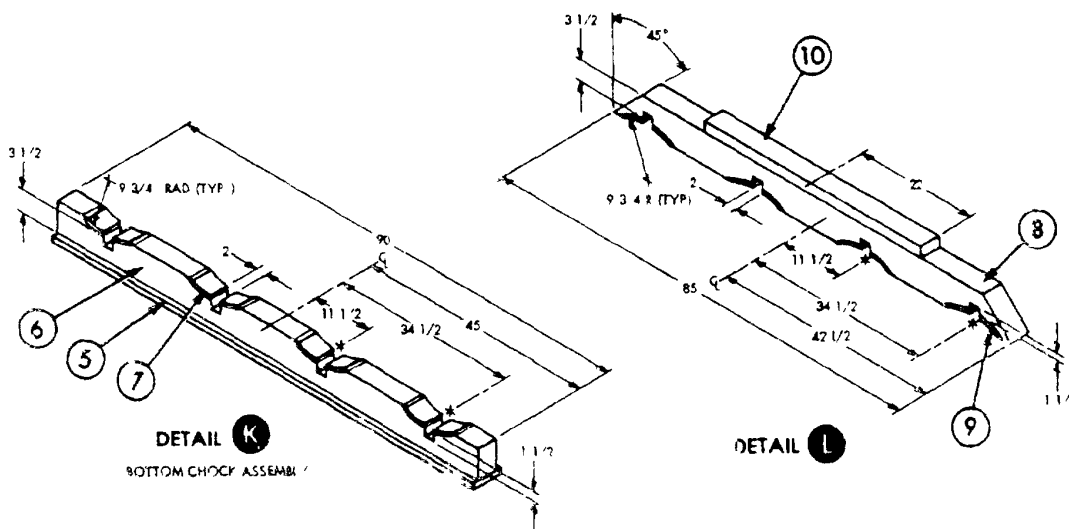
LOCATION OF BOTTOM
CHECK ASSEMBLIES FOR
TORPEDO MK 37 MOD 2



SEE DETAIL **K**

DETAIL **I**

LOCATION OF BOTTOM
CHECK ASSEMBLIES FOR
TORPEDO MK 37 MOD 3



DETAIL **K**
BOTTOM CHECK ASSEMBLY

DETAIL **L**

VIEW ACTIVITY
NAVY OS

PREPARING ACTIVITY
NAVY OS
(PROJECT NO. 10-1320)

FOLD

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