

LOADING AND BRACING IN VAN TYPE TRAILERS OF THE ONE-TON CONTAINER AND MIXED LOADS OF CHEMICAL AMMUNITION

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CAUTION: THE PROCEDURES SHOWN HEREIN ARE ONLY
APPLICABLE FOR HIGHWAY MOVEMENT; NOT FOR CONTAINER/
TRAILER-ON-FLAT-CAR MOVEMENTS.

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GENERAL NOTES

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR 740-1, ND AUGMENTS TM 743-200-1 (CHAPTER 5).
- THE LOADS AS SHOWN ARE BASED ON VAN TYPE TRAILERS 40'-0" LONG BY 92" WIDE (INSIDE WIDTH) HAVING WOOD, WOOD AND METAL, OR ALL METAL FLOORS, FOR ADDITIONAL GUIDANCE, SEE GENERAL NOTE "P" AT RIGHT, THE OUTLOADING PROCEDURES SPECIFIED HEREIN FOR THREE SEPARATE VAN LOADS ARE APPLICABLE TO THE ONE-TON CONTAINER, 8-ROUND PALLET UNIT OF 155MM SEPARATE LOADING PROJECTILES, 6-ROUND PALLET UNIT OF 8-INCH SEPARATE LOADING PROJECTILES, AND A PALLET UNIT OF 750-POUND BOMBS.
- D. FOR DETAIL OF THE ONE-TON CONTAINER, SEE TM 3-250 AND PAGE 3 OF THIS

ITEM DIMENSIONS ----- 6'-9-1/2" LONG X 30-1/2" DIAMETER. GROSS WEIGHT ----- 3,500 LBS (MAX).

FOR DETAIL OF THE PALLET UNIT OF 155MM SEPARATE LOADING PROJECTILES, SEE DRAWING NO. 7599275 AND PAGE 3 OF THIS DRAWING.

ITEM DIMENSIONS ----- 13-1/2" LONG X 27" WIDE X 31-1/2" HIGH, GROSS WEIGHT ------ 832 LBS (APPROX).

FOR DETAIL OF THE PALLET UNIT OF 8-INCH SEPARATE LOADING PROJECTILES, SEE DRAWING NO. 7548346 AND PAGE 3 OF THIS DRAWING.

ITEM DIMENSIONS ----- 19-1/2" LONG X 28-1/2" WIDE X 38-1/2" HIGH. GROSS WEIGHT ----- 1,256 LBS (APPROX).

FOR DETAIL OF THE PALLET UNIT OF 750-POUND BOMBS, SEE TPO 1325-926-1868 AND PAGE 3 OF THIS DRAWING.

ITEM DIMENSIONS ----- 55" LONG X 32-1/4" WIDE X 22-7/8" HIGH. GROSS WEIGHT ------ 1,590 LBS (APPROX).

- <u>CAUTION:</u> NON-COMPATIBLE ITEMS MUST NOT BE OUTLOADED IN THE SAME TRAILER.
- SELECTION OF A VEHICLE USED TO TRANSPORT THE DESIGNATED ITEMS MUST COMPLY WITH AR 55-355, CHAPTER 213, FOR EXPLOSIVES AND OTHER DANGEROUS ARTICLES,
- GROSS WEIGHT AND AXLE DISTRIBUTION OF WEIGHT FOR A LOAD WILL BE THE RESPONSIBILITY OF THE CARRIER. THE CARRIER WILL ADVISE THE SHIPPER OF THE APPLICABLE LOADING REQUIREMENTS, AND THE SHIPPER WILL LOAD ACCORDINGLY.
- NOTICE: A SHIPMENT WILL BE POSITIONED IN THE TRAILER CONSISTENT WITH THE STATE WEIGHT LAWS. THE NUMBER OF UNITS MAY BE ADJUSTED TO FIT THE QUANTITY TO BE SHIPPED; HOWEVER, THE APPROVED METHODS CONTAINED HEREIN MUST BE FOLLOWED AS CLOSELY AS POSSIBLE FOR BLOCKING, BRACING, AND STAYING OF THE DESIGNATED ITEMS.
- WHEN ANY STRAP IS SEALED AT A END-OVER-END LAP JOINT, ONE SEAL WITH TWO PAIR OF CRIMPS PER SEAL MUST BE USED TO SEAL THE JOINT. CAUTION: EXERCISE CARE DURING TENSIONING TO PREVENT DAMAGE TO THE LADING ITEMS.
- UNLESS OTHERWISE SPECIFIED, DUNNAGE MATERIAL SPECIFIED THROUGHOUT THIS DRAWING IS OF NOMINAL SIZE. FOR EXAMPLE, 2" X 6" MATERIAL IS ACTUALLY 1-1/2" THICK BY 5-1/2" WIDE AND 4" X 4" MATERIAL IS ACTUALLY 3-1/2" THICK
- NOTICE: A STAGGERED NAILING PATTERN WILL BE USED WHEREVER POSSIBLE WHEN NAILS ARE DRIVEN INTO JOINTS OF DUNNAGE ASSEMBLIES. ALSO, A STAGGERED NAILING PATTERN WILL BE USED WHEN LAMINATING DUNNAGE. THE NAILING PATTERN FOR A SECOND PIECE OF LAMINATED DUNNAGE WILL BE ADJUSTED AS REQUIRED SO THAT A NAIL FOR THAT PIECE WILL NOT BE DRIVEN THROUGH ONTO OR RIGHT BESIDE A NAIL IN A FIRST PIECE.

(CONTINUED AT RIGHT)

MATERIAL SPECIFICATIONS

LUMBER -----: SEE TM 743-200-1, DUNNAGE LUMBER; FED SPEC MM-L-751.

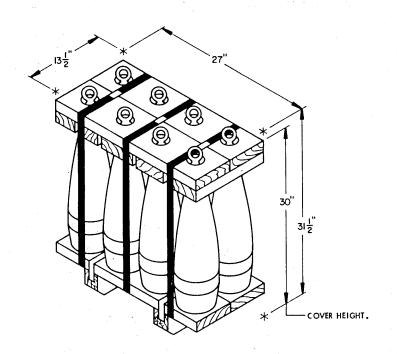
COMMON, CEMENT COATED OR CHEMICALLY ETCHED; FED SPEC FF-N-105. ALT: ANNULAR-RING TYPE NAIL OF THE SAME SIZE.

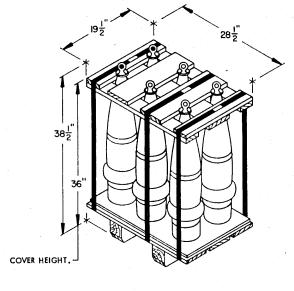
STEEL STRAPPING - : CLASS I, TYPE I OR IX, HEAVY DUTY, FINISH A, B (GRADE 2), OR C; FED SPEC QQ-5-781.

SEAL, STRAP ---- : TYPE D, STYLE I, II, OR IV, CLASS H; FED SPEC QQ-S-781.

(GENERAL NOTES CONTINUED)

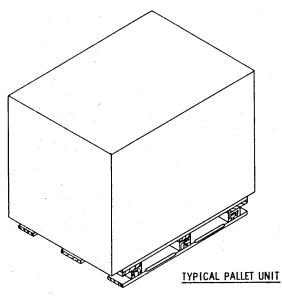
- M. OTHER TYPES OF LADING ITEMS MAY BE LOADED IN A TRAILER WHICH IS PARTIALLY LOADED WITH THE DESIGNATED ITEMS, PROVIDING THE TOTAL LOAD IS COMPATIBLE, EXISTING DIRECTIVES ARE NOT VIOLATED, AND THE OTHER LADING ITEMS ARE BLOCKED AND BRACED TO EQUAL THE BLOCKING AND BRACING CRITERIA SPECIFIED.
- N. PORTIONS OF THE SEMITRAILER BODIES DEPICTED WITHIN THIS DRAWING, SUCH AS ONE OF THE SIDEWALLS, HAVE NOT BEEN SHOWN IN THE LOAD VIEWS FOR
- O. FOR ADDITIONAL GUIDANCE, ATTENTION IS DIRECTED TO THE "SPECIAL NOTES" SECTIONS WHICH ARE IMMEDIATELY ADJACENT TO THE DEPICTED OUTLOADING
- P. WHEN SHIPPING A 11-UNIT LOAD OF ONE-TON CONTAINERS, THE PROCEDURES SHOWN ON PAGE 4 MUST BE APPLIED TO A 40-FOOT LONG OR LONGER TRAILER WHICH IS 92" WIDE OR WIDER INSIDE. ALTHOUGH THE PROCEDURES AS SHOWN ON PAGE 6 APPLY TO A 40'-0" LONG BY 92" WIDE (MIN INSIDE WIDTH) TRAILER, LONGER OR SHORTER TRAILERS MAY BE USED. ALSO, WHEN OUTLOADING ONLY TWO ONE-TON CONTAINERS, AS SHOWN IN THE "ALTERNATIVE LOADING PATTERN" VIEW ON PAGE 7, A NARROWER TRAILER CAN BE USED. LIKEWISE, ALTHOUGH THE PROCEDURES AS SHOWN ON PAGE 8 APPLY TO 40'-0" LONG BY 92" WIDE (INSIDE WIDTH) TRAILERS, TRAILERS OF OTHER LENGTHS AND/OR WIDTHS MAY ALSO BE USED. IF LONGER/SHORTER OR WIDER/NARROWER TRAILERS ARE USED FOR A LOAD DEPICTED HEREIN, ADJUSTMENTS TO THE DUNNAGE MUST BE MADE TO COMPENSATE FOR THE DIFFERENT LENGTH OR WIDTH TRAILER.

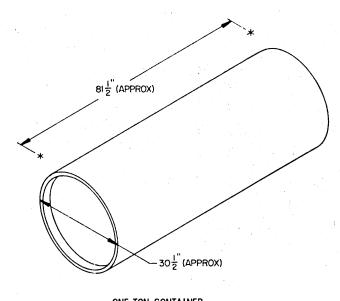




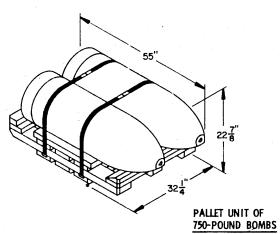
PALLET UNIT OF 8-INCH SEPARATE LOADING PROJECTILES

PALLET UNIT OF 155MM SEPARATE LOADING PROJECTILES

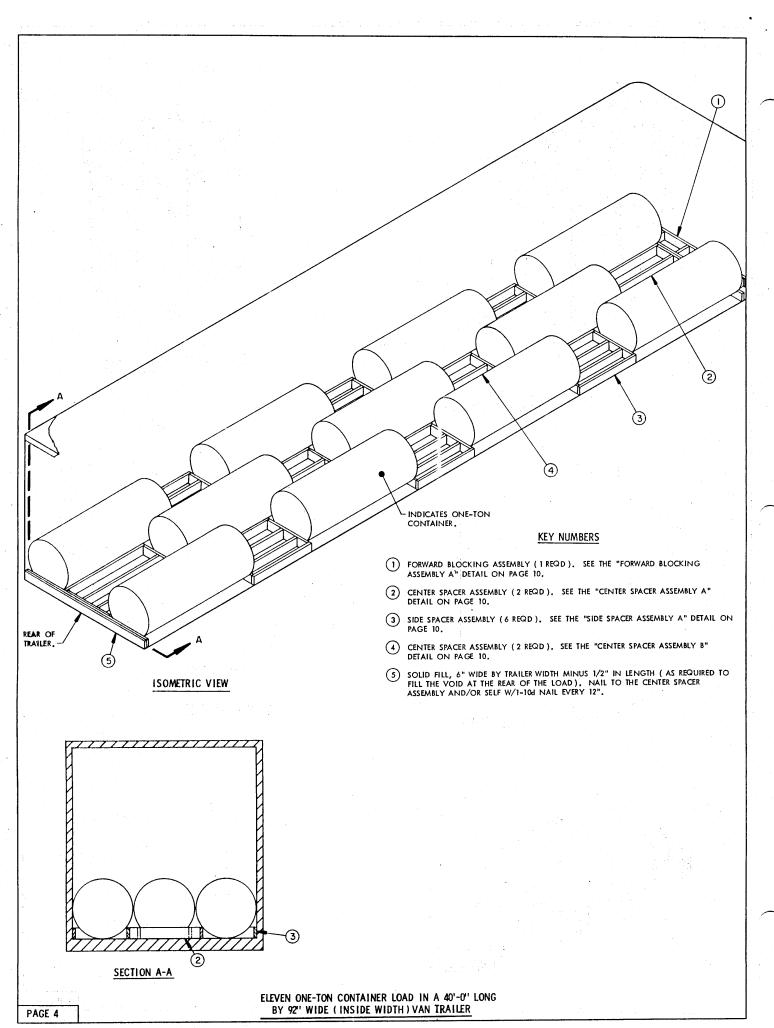




ONE-TON CONTAINER



ITEM DETAILS



SPECIAL NOTES:

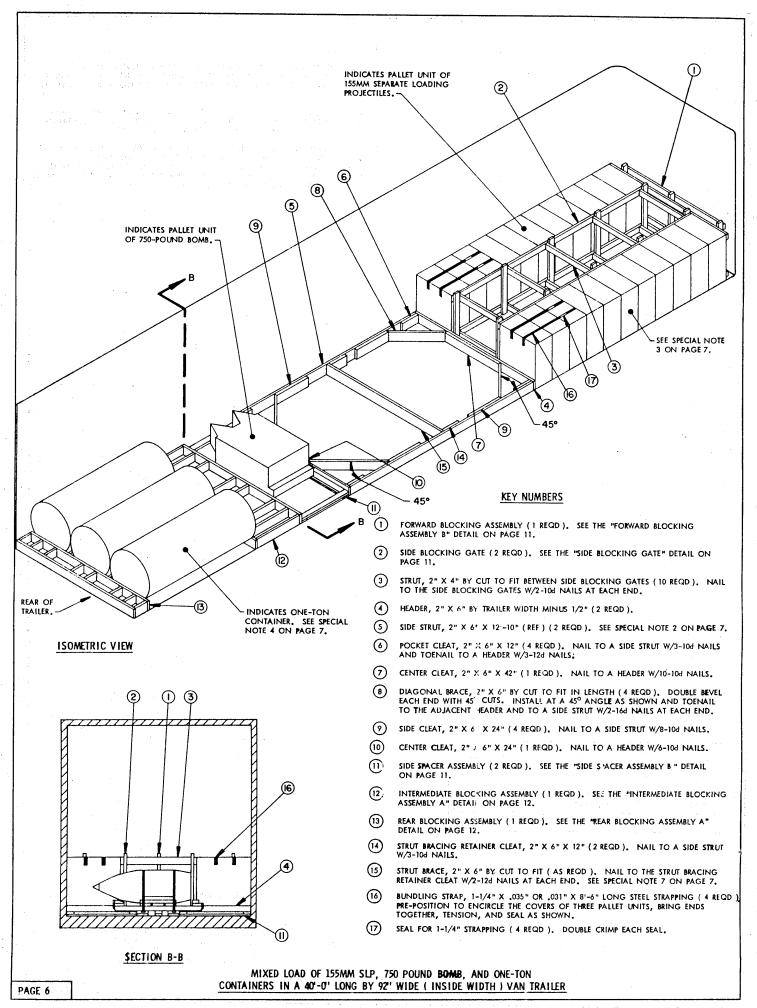
- THE LOAD AS SHOWN ON PAGE 4 DEPICTS A LOAD OF ELEVEN ONE-TON CONTAINERS IN A 40"-0" LONG BY 92" WIDE (INSIDE WIDTH) VAN TYPE TRAILER WITH ROUNDED CORNERS AT THE FORWARD END AND WITHOUT CORNER POSTS AT THE REAR OF THE TRAILER.
- 2. THE FIRST TWO CONTAINERS MUST BE POSITIONED WITHIN THE TRAILER SO THAT THEY CONTACT THE SIDEWALLS OF THE TRAILER SO THAT THE CENTER CONTAINER CAN BE POSITIONED BETWEEN THE TWO OUTSIDE CONTAINERS.
- 3. IF LESS CONTAINERS THAN SHOWN IN THE LOAD VIEW DEPICTED ON PAGE 4 ARE TO BE OUTLOADED, A COMBINATION OF THE LOADS SHOWN ON PAGES 4, 6, 7, AND 8 MUST BE USED. SPECIFICATIONS FOR THE ELEVEN ONE-TON CONTAINER LOAD SHOWN ON PAGE 4, WILL BE APPLIED SEPARATELY, OR IN COMBINATION TO BLOCK AND BRACE OTHER THAN AN ELEVEN CONTAINER LOAD.

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
2" X 6"	246	246
NAILS	NO. REQD	POUNDS
10d (3")	288	4-1/2

LOAD AS SHOWN

ELEVEN ONE-TON CONTAINER LOAD IN A 40'-0' LONG BY 92' WIDE (INSIDE WIDTH) VAN TRAILER

PAGE 5



SIDE BEARING MECE, 2" X 6" X 1
8'-0" (2 REQD), NAIL TO THE
REAR BLOCKING ASSEMBLY AND
INTERMEDIATE BLOCKING
ASSEMBLY W/2-12d NAILS AT
EACH JOINT,

SIDE BEARING PIECE RETAINER, 2" X 4" BY
CUT TO FIT (2 REQD), NAIL TO THE
REAR BLOCKING ASSEMBLY OR INTERMEDIATE
BLOCKING ASSEMBLY W/5-10d NAILS,

INTERMEDIATE BLOCKING
ASSEMBLY (1 REQD),
SEE THE "INTERMEDIATE
BLOCKING ASSEMBLY A"
DETAIL ON PAGE 12,

"BUFFER PIECE, 2" X 6" BY TRAILER
WIDTH MINUS 1/2" (1 REQD), NAIL
TO THE INTERMEDIATE BLOCKING

REAR BLOCKING ASSEMBLY (1 REQD). SEE THE "REAR BLOCKING ASSEMBLY B" DETAIL ON PAGE 13.

ALTERNATIVE LOADING PATTERN

ASSEMBLY W/1-10d NAIL EVERY 12".

THE DETAIL ABOVE DEPICTS PROCEDURES FOR BLOCKING AND BRACING OF TWO-ONE-TON CONTAINERS,

	BILL OF MATERIAL			
LUMBER	LINEAR FEET	BOARD FEET		
1" X 4" 2" X 4" 2" X 6"	12 161 134	4 108 134		
NAILS	NO. REQD	POUNDS		
6d (2*)	36	1/4		

264

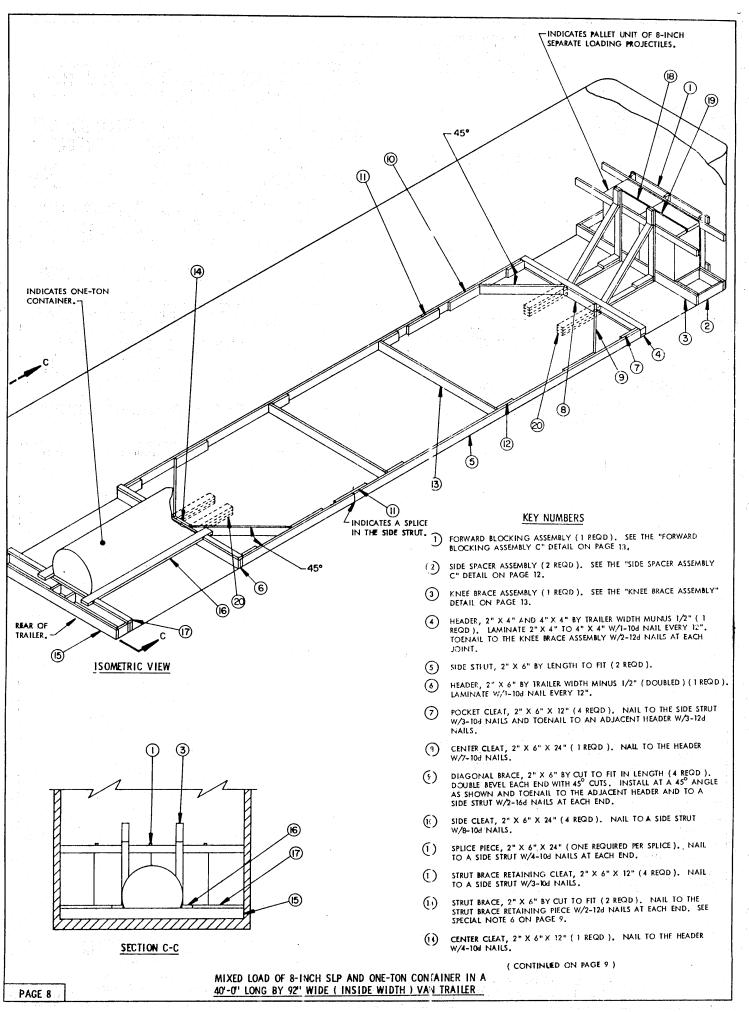
10d (3")

12d (3-1/4")

SPECIAL NOTES:

- 1, THE LCAD SHOWINJON PAGE 6 DEPICTS A COMBINATION LOAD OF TWENTY-TWO PALLET UNITS OF 155MM SEPARATE LOADING PROJECTILES, ONE PALLET UNIT OF 750 POUND BOMB, AND THREE ONE-TON CONTAINERS IN A 40'-0" LONG BY 92" WIDE (INSIDE WIDTH) VAN TYPE TRAILER, WIDER TRAILERS, AND/OR LONGER OR SHORTER TRAILERS CAN BE USED, SEE SPECIAL NOTE 6 BELOW.
- 2. THE LENGTH OF THE SIDE STRUT, PIECE MARKED (3), MUST BE FIELD CHECKED DURING LOADING OPERATIONS TO ASSURE FOR A SNUG FIT OF ASSEMBLIES TOWARD THE REAR OF THE TRAILER. LADING ITEM DIMENSIONS AND/OR TRAILER LENGTH MAY VARY AND NECESSITATE ADJUATMENTS IN THE LENGTH OF THE SIDE STRUT.
- 3. IF ONLY TWENTY-ONE PALLET UNITS OF 155MM SEPARATE LOADING PROJECTILES ARE TO BE OUTLOADED, A FILLER FOR AN OMITTED PALLET UNIT MUST BE INSTALLED IN THE LOAD. THE FILLER MUST BE POSITIONED NEAR THE CENTER OF A LOAD BAY. SEE THE "OMITTED-UNIT ASSEMBLY" DETAIL ON PAGE 13.
- 4. THREE ONE-TON CONTAINERS HAVE BEEN DEPICTED IN THE LOAD VIEW. IF ONLY TWO ONE-TON CONTAINERS ARE TO BE OUTLOADED, SEE THE "ALTERNATIVE LOADING PATTERN" DETAIL AT LEFT. IF ONLY ONE ONE-TON CONTAINER IS TO BE OUTLOADED, SEE THE "ISOMETRIC VIEW" DEPICTED ON PAGE 8. STRUTS IN THE REAR BLOCKING AND INTERMEDIATE BLOCKING ASSEMBLIES MAY BE OMITTED OR ADDED AS DEPICTED IN THE LOAD VIEWS.
- IF THE PALLET UNIT OF 750-POUND BOMBS IS TO BE OMITTED, OR IF ADDITIONAL PALLET UNITS ARE TO BE LOADED, DUNNAGE ASSEMBLIES MUST BE ADJUSTED AS REQUIRED.
- 6. THE LOAD DEPICTED ON PAGE 6 SHOWS A TYPICAL LOAD OF AMMUNITION ITEMS, AND IS NOT MEANT TO BE RESTRICTED TO ONLY THESE ITEMS OR THESE QUANTITIES. THE ITEMS AND/OR QUANTITIES CAN BE ADJUSTED AS REQUIRED, AS LONG AS SIMILAR ITEMS ARE BLOCKED AND BRACED IN ACCORDANCE WITH THE PROCEDURES SHOWN HEREIN. THE PROCEDURES SHOWN ON PAGES 6 AND 7 MAY BE COMBINED WITH PROCEDURES SHOWN ELSEWHERE IN THIS DOCUMENT TO ACCOMMODATE THE ITEMS TO BE SHIPPED PROVIDED THE BLOCKING AND BRACING REQUIREMENTS ARE COMPLIED WITH AND OTHER RESTRICTIONS ARE NOT VIOLATED. SEE THE "ISOMETRIC VIEW" AND THE "BRACE" DETAIL ON PAGE 14 FOR ADDITIONAL GUIDANCE OF BLOCKING AND BRACING OF OTHER ITEMS.
- 7. THE LOAD AS SHOWN ON PAGE 6 REQUIRES ONE STRUT BRACE POSITIONED BETWEEN THE K-BRACE ASSEMBLIES AS DEPICTED ON PAGE 6. A STRUT BRACE MUST BE USED FOR EACH 7'-0" LENGTH OF UNSUPPORTED SIDE STRUT.
- 8. THE "K-BRACE" BLOCKING, SHOWN AS PIECES MARKED (4) THRU (10) , (14) , AND (15) , IS ADEQUATE FOR RETAINING A MAXIMUM LOAD OF 20,000 POUNDS IN EITHER END OF THE TRAILER.

LOAD AS SHOWN



(KEY NUMBERS CONTINUED)

- (13) REAR BLOCKING ASSEMBLY (1 REQD). SEE THE "REAR BLOCKING ASSEMBLY B" DETAIL ON PAGE 13.
- (6) SIDE BEARING PIECE, 2" X 6" X 8"-0" (2 REQD), NAIL TO THE REAR BLOCKING ASSEMBLY AND/OR THE HEADER W/2-124 NAILS AT EACH JOINT.
- (17) SIDE BEARING PIECE RETAINER, 2" X 4" BY CUT TO FIT (4 REQD). NAIL TO THE REAR BLOCKING ASSEMBLY OR HEADER W/3-104 NAILS.
- (1) BUNDLING STRAP, 1-1/4" X .035" OR .031" X 7'-0" LONG STEEL STRAPPING (1 REQD). INSTALL TO FORM A COMPLETE LOOP AROUNDS THE COVERS OF THE TWO PALLETS. BRING ENDS TOGETHER, TENSION, AND SEAL.
- (19) SEAL FOR 1-1/4" STRAPPING (1 REQD). DOUBLE CRIMP EACH SEAL.
- (20) BACK-UP CLEAT, 2" X 4" X 30" (TRIPLED) (4 REQD). NAIL THE FIRST PIECE TO THE TRAILER FLOOR W/7-124 NAILS. NAIL EACH ADDITIONAL PIECE IN ALTIME MAINNER. JOEMAN TO THE HEADER W/2-124 NAILS AT EACH JOINT. SEE SPECIAL NOTE 4 ON PAGE 9.

SPECIAL NOTES:

- THE LOAD SHOWN ON PAGE 8 DEPICTS A COMBINATION LOAD OF TWO
 PALLET UNITS OF 8-INCH SEPERATE LOADING PROJECTILES, AND ONE ONE-TON
 CONTAINER IN A 40'-0" LONG BY 92" WIDE (INSIDE WIDTH) VAN TYPE
 TRAILER, TRAILERS OF OTHER DIMENSIONS MAY BE USED. SEE SPECIAL NOTE
 3 BELOW.
- 2. ONE ONE-TON CONTAINER HAS BEEN DEPICTED IN THE LOAD VIEW, IF TWO ONE-TON CONTAINERS ARE TO BE OUTLOADED, SEE THE "ALTERNATIVE LOADING PATTERN" DETAIL ON PAGE 7 FOR ADDITIONAL GUIDANCE, IF THREE ONE-TON CONTAINERS ARE TO BE OUTLOADED, SEE THE "ISOMETRIC VIEW" ON PAGE 6. ADJUST THE QUANTITY OF STRUTS IN THE "REAR BLOCKING" AND "INTERMEDIATE BLOCKING ASSEMBLIES" AS DEPICTED.
- 3. THE LOAD AS SHOWN FOR THE TWO PALLETS OF 8-INCH SEPARATE LOADING PROJECTILES IS BASED ON FOUR (4) PROJECTILES PER PALLET, ALTHOUGH THE DETAIL SHOWN ON PAGE 3 DEPICTS A SIX (%) PROJECTILE UNIT. THE PROCEDURES SHOWN ON PAGE 8 MAY BE USED TO SHIP PALLET UNITS WITH FOUR THROUGH SIX PROJECTILES PER PALLET. THESE PROCEDURES CAN ONLY BE USED WHEN TWO (2) PALLET UNITS ARE TO BE OUTLOADED.
- 4. PIECES MARKED ② ARE FOR USE IN A TRAILER WHICH HAS A NAILABLE FLOOR AND SHOULD BE USED, IF POSSIBLE, IN LIEU OF PIECES MARKED ③, AND ⑦ THRU ④ , WHICH APPLY TO TRAILERS HAVING NON-NAILABLE FLOORS. WHEN USING NAILED FLOOR LINE DUNNAGE, NAIL THE FLOOR CLEAT OF THE KNEED BRACE ASSEMBLY, PIECE MARKED ③ , TO THE TRAILER FLOOR W/S-12d NAILS. TWO BACK-UP CLEATS, SHOWN AS PIECE MARKED ② , ARE ADEQUATE FOR RETAINING NOT MORE THAN 8,000 POUNDS OF LADING.
- 5. THE LOAD DEPICTED ON PAGE 8 SHOWS A TYPICAL LOAD OF AMMUNITION ITEMS, AND IS NOT MEANT TO BE RESTRICTED TO ONLY THESE ITEMS OR THESE QUANTITIES. THE ITEMS AND/OR QUANTITIES CAN BE ADJUSTED AS REQUIRED, AS LONG AS SIMILAR ITEMS ARE BLOCKED AND BRACED IN ACCORDANCE WITH THE PROCEDURES SHOWN HEREIN. THE PROCEDURES SHOWN ON PAGES 8 AND 9 MAY BE COMBINED WITH PROCEDURES SHOWN ELSEWHERE IN THIS DOCUMENT TO ACCOMMODATE THE ITEMS TO BE SHIPPED PROVIDED THE BLOCKING AND BRACING REQUIREMENTS ARE COMPLIED WITH AND OTHER RESTRICTIONS ARE NOT VIOLATED, SEE THE "ISOMETRIC VIEW" AND THE "BRACE" DETAIL ON PAGE 14 FOR ADDITIONAL CUIDANCE OF BLOCKING AND BRACING OF OTHER ITEMS.
- 6. THE LOAD AS SHOWN ON PAGE 8 REQUIRES TWO STRUT BRACES POSITIONED BETWEEN THE K-BRACE ASSEMBLIES AS DEPICTED ON PAGE 8. A STRUT BRACE MUST BE USED FOR EACH 7'-0" LENGTH OF UNSUPPORTED SIDE STRUT.
- 7. THE "K-BRACE" BLOCKING, SHOWN AS PIECES MARKED (4) THRU (14), IS ADEQUATE FOR RETAINING A MAXIMUM LOAD OF 20,000 POUNDS IN EITHER END OF THE TRAILER.

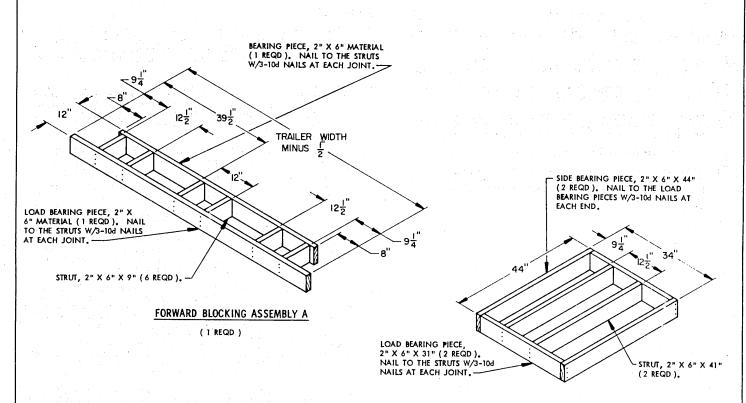
LUMBER	LINEAR FEET	BOARD FEET
2" X 4"	64	43
2" X 6"	193	193
4" X 4"	8	11
NAILS	NO, REQD	POUNDS
104 (3")	207	3-1/4
12d (3-1/4")	44	3/4
16d (3-1/2")	16	1/2

LOAD AS SHOWN

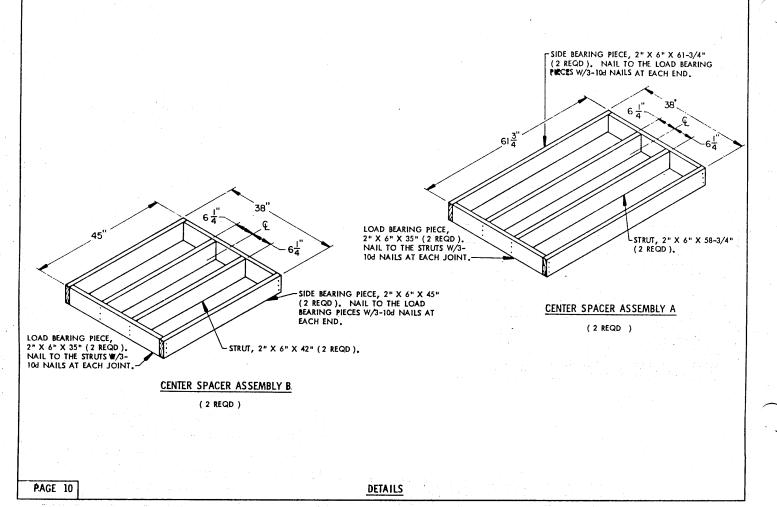
MIXED LOAD OF 8-INCH SLP AND ONE-TON CONTAINER IN A 40'-0' LONG BY 92' WIDE (INSIDE WIDTH) VAN TRAILER

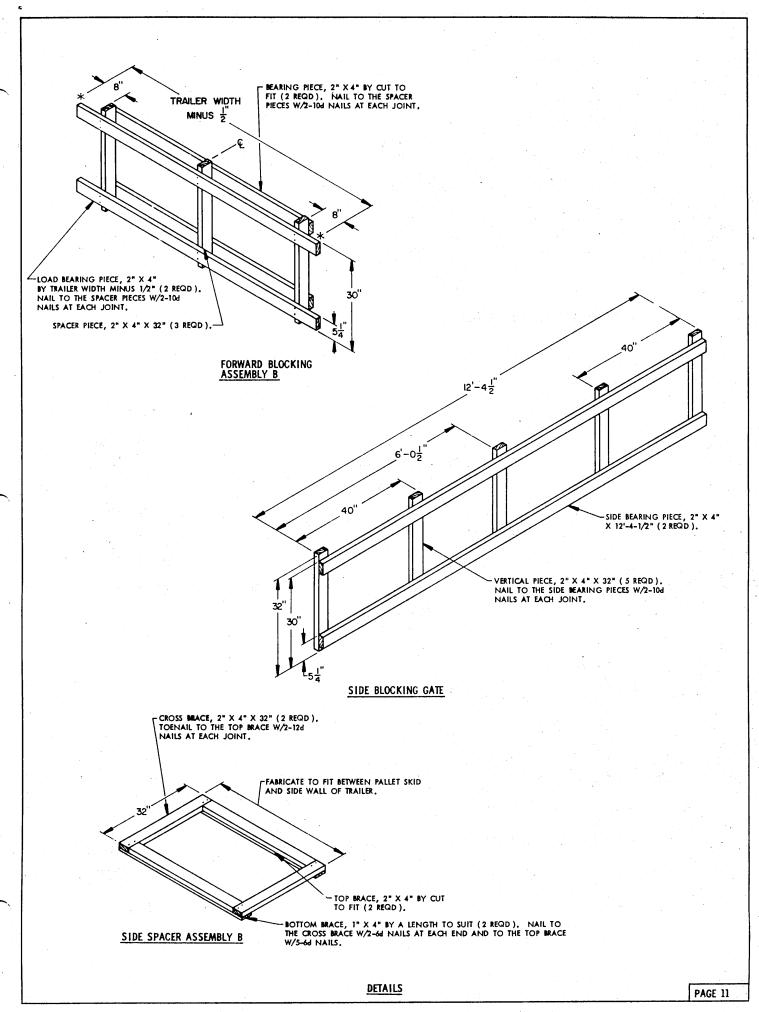
* SEE SPECIAL NOTE 3 ABOVE

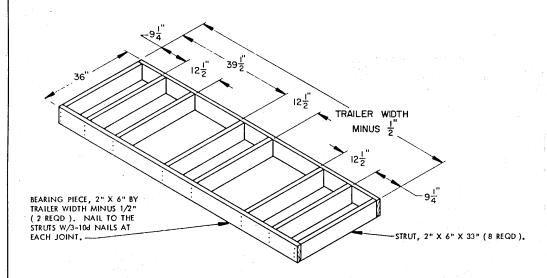
PAGE 9



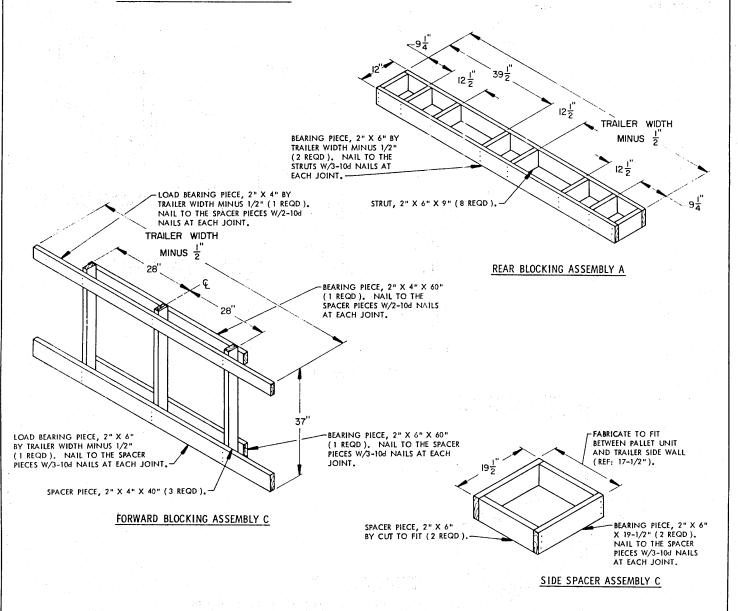
SIDE SPACER ASSEMBLY A (6 REQD)



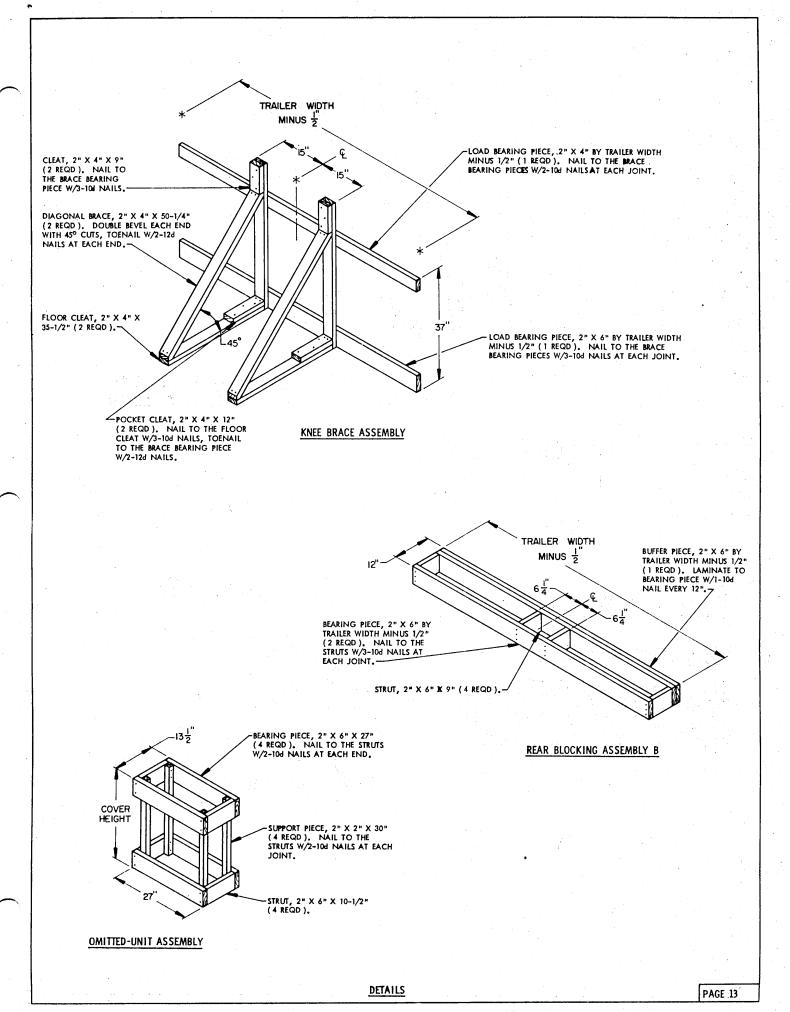


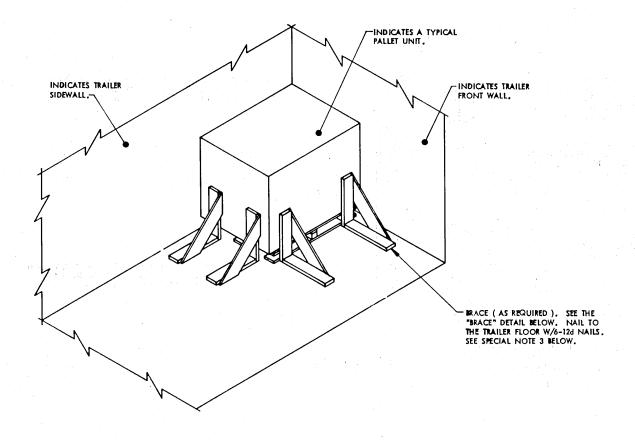


INTERMEDIATE BLOCKING ASSEMBLY A



DETAILS

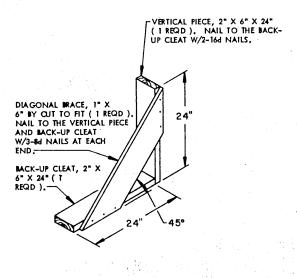




ISOMETRIC VIEW

SPECIAL NOTES:

- A TYPICAL PALLET UNIT HAS BEEN DEPICTED IN A VAN TYPE TRAILER WHICH HAS A NAILABLE FLOOR. THIS PROCEDURE MAY BE USED FOR OUTLOADING OTHER PALLETIZED ITEMS NOT DEPICTED ON PAGES 3 THRU 9.
- MORE THAN ONE PALLET UNIT CAN BE OUTLOADED, PROVIDING THE CAPACITY OF THE BRACE IS NOT EXCEEDED, AND THE ITEMS ARE COMPATIBLE.
- 3. EACH BRACE AS APPLIED FOR LONGITUDINAL BRACING WILL SUPPORT 2,000 POUNDS OF LADING; HOWEVER, NOT LESS THAN TWO (2) BRACES WILL BE USED AGAINST EACH PALLET UNIT ACROSS THE WIDTH OF A TRAILER, OR NOT LESS THAN TWO (2) BRACES WILL BE USED AGAINST EACH PALLET UNIT FOR SIDE BLOCKING. EACH SIDE OR END OF A PALLET UNIT WHICH IS NOT PROPERLY SUPPORTED BY THE TRAILER WALLS, OBJET ITEMS, OR OTHER TYPE BLOCKING, WILL REQUIRE TWO (2) ADDITIONAL BRACES ON EACH UNSUPPORTED STDE AND/OR END.



BRACE