REV NO. I APPROVED BY
BUREAU, OF EXPLOSIVES
A. F. Gresmuck
DATE 1/28/77

# LOADING AND BRACING (TL & LTL) IN VAN TRAILERS OF PALLETIZED MEDIUM CALIBER PROJECTILES

# INDEX

ITEM	PAGE (S)
GENERAL NOTES, AND MATERIAL SPECIFICATIONS	2
UNIT DETAILS	3
PROCEDURES FOR CONVENTIONAL VAN TRAILES:	
LOADS FOR "OPEN-TYPE" PALLET UNITS	
LOADS FOR BOXED-TYPE PALLET UNITS	6-13
LTL LOADS FOR "OPEN-TYPE" AND BOXED-TYPE PALLET UNITS	14-16
DETAILS	17-21
PROCEDURES FOR TRAILERS EQUIPPED WITH MECHANICAL BRACING DEVICES:	
LOADS FOR "OPEN-TYPE" PALLET UNITS	22-25
LOADS FOR BOXED-TYPE PALLET UNITS	26-33
DETAILS	34-37
PALLET UNIT INDEXES	

THIS DOCUMENT INCLUDES OUTLOADING PROCEDURES FOR CONVENTIONAL TYPE TRAILERS AND FOR TRAILERS EQUIPPED WITH MECHANICAL BRACING DEVICES AS APPROVED BY THE BUREAU OF EXPLOSIVES, ASSOCIATION OF AMERICAN RAILROADS. CAUTION: THE PROCEDURES SHOWN HEREIN, FOR BOTH TYPES OF TRAILERS, ARE ONLY APPLICABLE FOR HIGHWAY MOVEMENTS; NOT FOR CONTAINER/TRAILER-ON-FLAT-CAR MOVEMENTS.

THESE PROCEDURES MAY ALSO BE USED FOR LOADING AND BRACING EMPTY PROJECTILES.

THIS DRAWING, INCLUDING REVISION 1, SUPERSEDES DRAWING 19-48-4032-11PE1006 DATED 7 JANUARY 1960.

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### GENERAL NOTES

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR 740-1. AND AUGMENTS TM 743-200-1 (CHAPTER 5).
- THE OUTLOADING PROCEDURES SPECIFIED HEREIN ARE APPLICABLE TO MEDIUM CALIBER PROJECTILES AND PROJECTILE METAL PARTS, FROM 2,75 INCH THRU 165MM, WHEN PALLETIZED. SUBSEQUENT REFERENCE TO UNIT HEREIN MEANS THE PALLET UNIT WITH CONTENTS.
- C. FOR DETAILS OF THE BOXED-TYPE PALLET UNIT, SEE ORDNANCE CORPS DRAWING NO. F-7548604 AND THE PICTORIAL VIEW ON PAGE 3.
- FOR DETAILS OF THE "OPEN-TYPE" PALLET UNIT, SEE PICATINNY ARSENAL DRAWING NO. F-8837835 AND THE PICTORIAL VIEW ON PAGE 3.
- THE OUTLOADING PROCEDURES DEPICTED WITHIN THIS DOCUMENT ARE LIMITED TO THE OUTLOADING PROCEDURES DEPICTED WITHIN THIS DOCUMENT ARE LIMITED TO HIGHWAY MOVEMENTS ONLY. THE PROCEDURES ARE APPLICABLE FOR SHIPMENTS IN CONVENTIONAL TYPE VAN TRAILERS, AND FOR SHIPMENTS IN VAN TRAILERS EQUIPPED WITH VARIOUS TYPES OF SELF-CONTAINED MECHANICAL BRACING DEVICES (CROSS MEMBERS AND WALL MEMBERS) AND APPLY TO TRAILERS HAVING WOOD, WOOD AND METAL, OR ALL METAL FLOORS. VAN TRAILERS WHICH ARE 40'-0" LONG BY 7'-4" WIDE (INSIDE WIDTH DIMENSION) HAVE BEEN SHOWN. HOWEVER, THE PROCEDURES ARE ALSO APPLICABLE FOR TRAILERS WHICH ARE NINETY INCHES (90") THRU NINETY-THREE INCHES (93") IN WIDTH AND FOR TRAILERS OF OTHER LENGTHS, UP TO AND INCLUDING 45'-0" LONG.
- F. IF THE TRAILER BEING USED IS EQUIPPED WITH A MECHANICAL LOAD BLOCKING SYSTEM, THE CROSS MEMBER ATTACHMENT FACILITIES WITHIN THE TRAILER MUST PROVIDE FOR THE INSTALLATION OF LOAD BLOCKING CROSS MEMBERS AT THE HEIGHTS SPECIFIED HEREIN. CAUTION: TRAILERS EQUIPPED WITH FACILITIES WHICH DO NOT MEET THE LOCATION REQUIREMENTS MUST NOT BE USED. THE HEIGHT REQUIREMENTS SPECIFIED WITHIN THIS DRAWING FOR INSTALLATION OF CROSS MEMBERS ARE IDENTICAL WITH THOSE RECOMMENDED BY THE BUREAU OF EXPLOSIVES PAMPHLET 6C, AND APPENDICES THERETO.
  - PALLET UNITS SHOULD BE LOADED TIGHTLY A GAINST EACH OTHER LONGITUD-INALLY AND/OR A GAINST INSTALLED CROSS MEMBERS. VOIDS LENGTHWISE WITHIN A LOAD MUST BE HELD TO A MINIMUM. CROSS MEMBERS MUST BE PLACED A GAINST THE LADING AS TIGHTLY AS THE HOLE SPACING IN THE CROSS MEMBER ATTACHMENT FACILITY PERMITS. EACH CROSS MEMBER WILL BE INSTALLED WITH THE ENDS ATTACHED AS NEARLY AS POSSIBLE IN "MATED" POSITIONS (AT EQUAL HEIGHTS AND AT EQUAL DISTANCES FROM THE END OF THE TRAILER ).
  - CROSS MEMBERS IN EMPTY TRAILERS OR THOSE UNUSED IN LOADED TRAILERS MUST BE SECURED FOR SHIPMENT. COMPONENTS ASSIGNED TO EACH TRAILER MUST REMAIN THEREWITH EVEN THOUGH UNUSED DURING SOME SHIPMENTS.
  - ONE (1) CROSS MEMBER WILL BE REQUIRED FOR EACH 10,000 POUNDS OF LADING, AND SHOULD NOT BE RELIED UPON TO RETAIN A GREATER WEIGHT. CROSS MEMBERS WILL NOT BE DOUBLED, THAT IS, TWO CROSS MEMBERS AT THE SAME HEIGHT LOCATION WILL NOT BE PLACED SIDE BY SIDE.
- G. NOTICE: A SHIPMENT WILL BE POSITIONED IN THE TRAILER CONSISIENT WITH STATE WEIGHT LAWS. THE NUMBER OF LADING UNITS MAY BE ADJUSTED TO FIT THE SIZE OF THE TRAILER TO BE LOADED OR THE QUANTITY TO BE SHIPPED, HOWEVER, THE APPROVED METHODS SHOWN HEREIN MUST BE FOLLOWED AS DESIGNATED ITEMS.
- H. THE 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. THE TOTAL WEIGHT OF THE LADING, OF THE DUNNAGE, OF THE TRACTOR, AND OF THE SEMI-TRAILER CARRYING THE LADING MUST NOT EXCEED THE MAXIMUM GROSS WEIGHT ALLOWED FOR THE STATE OR STATES THRU WHICH THE LOAD IS TO BE TRANSPORTED BY MOTOR CARRIER. LIKEWISE, THE GROSS WEIGHT ON A SINGLE OR TANDEM AXLE MUST NOT EXCEED THE MAXIMUM ALLOWABLE WEIGHT. IF THERE IS ANY DOUBT AS TO WHETHER ANY AXLES ARE OVERLOADED, OR ANY DOUBT AS TO WHETHER THE TOTAL GROSS WEIGHT EXCEEDS THE MAXIMUM ALLOWED, PROPER WEIGHT DISTRIBUTION SHOULD BE VERIFIED BY ACTUALLY WEIGHING THE LOADED VEHICLE.

( CONTINUED AT RIGHT )

# MATERIAL SPECIFICATIONS

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

 ------: COMMON, ŒMENT COATED OR CHEMICALLY ETCHED. FED SPEC FF-N-105. NAILS -

ALT: ANNULAR-RING TYPE NAIL OF SAME SIZE.

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

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

PLYWOOD ----: GROUP B OR C, GRADE\* C-D (EXTERIOR). FED SPEC

NN-P-530.

\*IF SPECIFIED GRADE IS NOT AVAILABLE, A BETTER EXTERIOR GRADE MAY BE SUBSTITUTED.

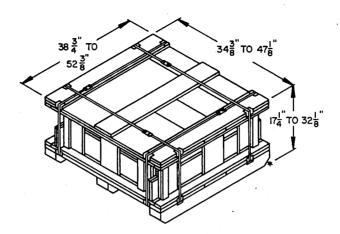
### (GENERAL NOTES CONTINUED)

- J. OTHER TYPES OF LADING ITEMS MAY BE LOADED INTO TRAILERS WHICH ARE PARTIALLY LOADED WITH PALLET UNITS OF PROJECTILES OR PROJECTILE METAL PARTS, 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 HEREIN,
- K. EXCEPT FOR PLYWOOD, DUNNAGE LUMBER, SPECIFIED THROUGHOUT THIS PROCEDURAL DRAWING IS OF NOMINAL SIZE. FOR EXAMPLE, 1" X 4" MATERIAL IS ACTUALLY 3/4" THICK BY 3-1/2" OR 3-5/8" WIDE AND 2" X 6" MATERIAL IS ACTUALLY 1-1/2" THICK BY 5-1/2" WIDE OR 1-5/8" THICK BY 5-5/8" WIDE.
- 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 DUNNAGE IS NAILED TO THE FLOOR OF THE PATTERN FOR AN UPPER PIECE OF LAMINATED NOT BE DRIVEN THROUGH ONTO OR RIGHT BESIDE A NAIL IN A LOWER PIECE.
- M. WHEN STEEL STRAPPING IS SEALED AT AN END-OVER-END LAP JOINT, A MINIMUM OF TWO (2) SEALS, BUTTED TOGETHER, WITH TWO (2) PAIRS OF CRIMPS PER SEAL MUST BE USED TO SEAL THE JOINT.
- N. PORTIONS OF THE TRAILERS, SUCH AS SIDEWALLS, END WALLS, AND ROOFS, HAVE NOT BEEN SHOWN IN THE LOAD VIEWS FOR CLARITY PURPOSES,
- O. ALL FULL TRAILER LOADS SHOWN HEREIN ARE TYPICAL, HOWEVER, THE PROCEDURES ALL FULL TRAILER LOADS SHOWN HEREIN ARE TYPICAL, HOWEVER, THE PROCEDURE ARE ADAPTABLE TO THE SIZE OF THE UNIT TO BE SHIPPED. THE NUMBER OF PALLET UNITS IN THE LENGTH OF THE TRAILER WILL BE DEPENDENT UPON THE LENGTH OF THE UNIT, AND THE NUMBER OF LAYERS WILL BE BASED UPON THE HEIGHT AND/OR WEIGHT OF THE UNIT BEING LOADED. NOTE THAT THE "UNIT WEIGHT IN POUNDS" IN THE CHARTS FOR THE DEPICTED TRAILER LOADING PROCEDURES IS BASED ON THE WEIGHT OF EMPTY PROJECTILES, THE WEIGHT OF A PALLET UNIT OF FILLED PROJECTILES WILL BE GREATER THAN THE UNIT WEIGHT SPECIFIED AND IT MAY THEREFORE BE NECESSARY TO REDUCE THE QUANTITY OF PALLET UNITS FOR A LOAD. THE QUANTITIES SHOWN IN THE LESS THAN TRAILER LOAD VIEWS ARE ALSO TYPICAL AND MAY BE ADJUSTED TO SUIT.
- P. THE "LOAD AS SHOWN" FOR MOST OF THE FULL LOADS DEPICTED HEREIN IS BASED ON AN APPROXIMATE LADING WEIGHT OF 42,000 POUNDS. THE SPECIFIED BLOCKING AND BRACING FOR THE FULL LOADS (CONVENTIONAL VAN) IS ADEQUATE FOR THE RETENTION OF HEAVIER LOADS, IF IT IS DESIRED TO INCREASE THE LADING WEIGHT. CAUTION: THE TOTAL GROSS WEIGHT OF THE LADING, THE DUNNAGE, AND OF THE TRANSPORTING TRACTOR AND TRAILER EQUIPMENT MUST NOT EXCEED THE ALLOWABLE GROSS WEIGHT FOR THE STATES THRU WHICH THE LOAD WILL BE TRANSPORTED AND FOR THE CLASSES OF ROADS TO BE TRAVELED WITHIN THOSE STATES.
- Q. FOR ADDITIONAL GUIDANCE, ATTENTION IS DIRECTED TO THE "SPECIAL NOTES"
  SECTIONS WHICH ARE IMMEDIATELY ADJACENT TO THE DEPICTED OUTLOADING
  METHODS, AND TO THE LOAD CAPACITY CHARTS FOR THE LOADS.

# REVISIONS

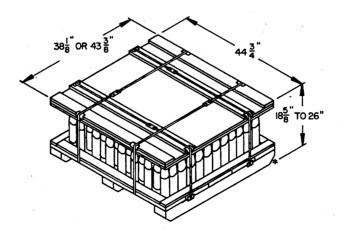
REVISION NO. 1, DATED AUGUST 1977, CONSISTS OF:

- INCREASING TRAILER LENGTHS TO 40'-0".
  INCLUDING PALLET UNITS OF OTHER SIZES AND WEIGHTS,
  INCLUDING PROCEDURES FOR TRAILERS EQUIPPED WITH MECHANICAL
- INCLUDING CHANGES AS NECESSARY TO UPDATE DRAWING FORMAT.



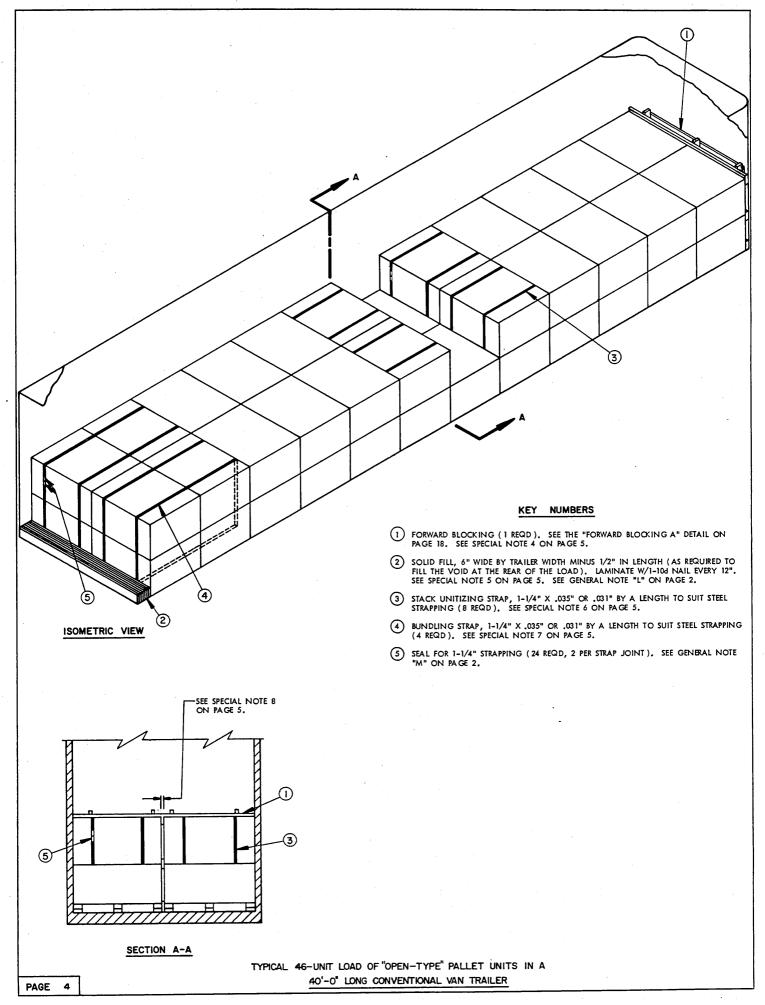
# TYPICAL BOXED-TYPE PALLET UNIT

THIS PALLET IS DETAILED BY ORDNANCE CORPS DRAWING NO. F-7548604. THE PALLET IS DESIGNED FOR SHIPMENT OF THE DESIGNATED 2.75 INCH, 75MM, 76MM, 81MM, 90MM, 105MM, 106MM, AND 120MM AMMUNITION ITEMS. THE PALLET UNITS RANGE IN WEIGHT FROM 473 POUNDS TO 2,821 POUNDS. OUTLOADING PROCEDURES FOR BOXED-TYPE PALLET UNITS IN CONVENTIONAL VAN TRAILERS ARE SHOWN ON PAGES 6 THRU 16. OUTLOADING PROCEDURES FOR BOXED-TYPE PALLET UNITS IN TRAILERS EQUIPPED WITH MECHANICAL BRACING DEVICES ARE SHOWN ON PAGES 26 THRU 33. REFER TO THE "BOXED-TYPE PALLET UNIT INDEX" ON PAGE 38 FOR SPECIFIC PAGE REFERENCES.



# TYPICAL "OPEN-TYPE" PALLET UNIT

THIS PALLET IS DETAILED BY PICATINNY ARSENAL DRAWING NO. F-8837835. THE PALLET IS DESIGNED FOR SHIPMENT OF THE DESIGNATED 2.75 INCH, 75MM, 76MM, 90MM, 105MM, 105MM, 120MM, 152MM, 155MM, AND 165MM AMMUNITION ITEMS. THE PALLET UNITS RANGE IN WEIGHT FROM 912 POUNDS TO 3,225 POUNDS. OUTLOADING PROCEDURES FOR "OPEN-TYPE" PALLET UNITS IN CONVENTIONAL VAN TRAILERS ARE SHOWN ON PAGES 4 THRU 7 AND PAGES 14 THRU 16. OUTLOADING PROCEDURES FOR "OPEN-TYPE" PALLET UNITS IN TRAILERS EQUIPPED WITH MECHANICAL BRACING DEVICES ARE SHOWN ON PAGES 22 THRU 25. REFER TO THE ""OPEN-TYPE" PALLET UNIT INDEX" ON PAGE 38 FOR SPECIFIC PAGE REFERENCES.



					and the second of the second
		LOAD CA	PACITY CHART		
LINE NO.	CALIBER	DESIGNATION	UNIT WEIGHT IN POUNDS 👄	MAX UNITS PER TRAILER	LOAD WEIGHT
13	2.75 IN	WARHEAD HE M151, PRACTICE XM232	T <b>,2</b> 05	35	42,175
7	75 MM	HE M334	1,533	27	41,391
18	90 MM	HE-T 91	1,526	27	41,202
19	90 MM	CHEM-T T92	1,580	26	41,080
20	105 MM	WARHEAD, 105MM, XM547	1,360	31	42,160
25	105 MM	HEP M393A2, WP XM416	1,352	31	41,912
38	105 MM	HE XM400E3, M444, M444E1	1,255	33	41,415
38	105 MM	HE M444, : M444E1	1,295	32	41,440
31	106 MM	HEAT M344A1	1,185	35	41,475
14	152 MM	TP-T XM411E2	1,847	22	40,634
40	152 MM	HE XM657E2	1,340	31	41,540
41*	155 MM	M549 MOTOR BODY	1,120	37	41,440
39	165 MM	HEP T237E4 (M123)	. 912	46	41,952

<sup>\*</sup> SEE SPECIAL NOTE 8.

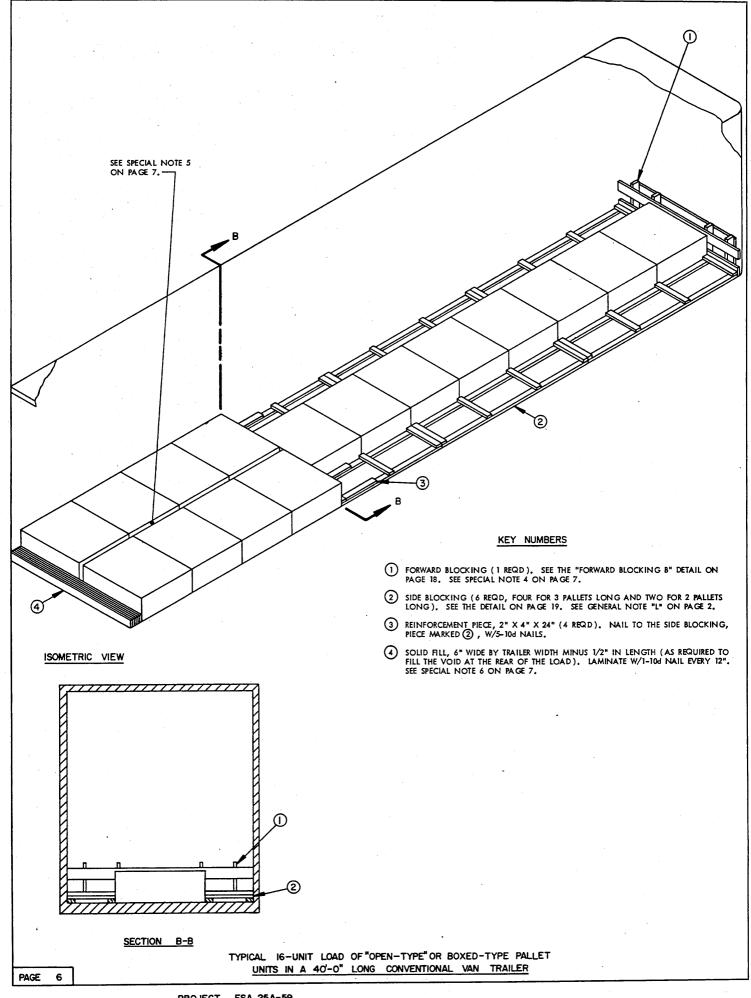
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### SPECIAL NOTES

- A 40'-0" LONG BY 7'-6" WIDE (INSIDE WIDTH DIMENSION) CONVENTIONAL VAN TRAILER IS SHOWN. TRAILERS OF OTHER DIMENSIONS CAN BE USED. SEE SPECIAL NOTE 8 BELOW.
- 2. THE TYPICAL LOAD SHOWN IS APPLICABLE FOR "OPEN-TYPE" PALLET UNITS AS DETAILED BY PICATINNY ARSENAL DRAWING NO. F-8837835, AND FOR THE ITEMS AS SPECIFIED IN THE "LOAD CAPACITY CHART" AT LEFT. THE PROCEDURES ARE APPLICABLE FOR LOADS WHICH CONSIST OF A FULL FIRST LAYER AND A PARTIAL OR FULL SECOND LAYER, SEE SPECIAL NOTE 10.
- 3. A 46-UNIT LOAD OF "OPEN-TYPE" PALLET UNITS MEASURING 38-1/2" LONG BY 44-3/4" WIDE BY 30" HIGH AND WEIGHING 912 POUNDS IS SHOWN AS TYPICAL. THE ACTUAL QUANTITY THAT CAN BE SHIPPED WILL DEPEND UPON THE WEIGHT OF THE ITEM BEING LOADED AND THE CAPACITY OF THE TRAILER BEING USED. SEE THE "LOAD CAPACITY CHART" AT LETT FOR GUIDANCE.
- 4. A TRAILER HAVING ROUNDED CORNERS AT THE FORWARD END IS SHOWN. IF THE TRAILER BEING USED IS EQUIPPED WITH A SQUARE FRONT OR WITH AN INSTALLED BULKHEAD, OMIT THE FORWARD BLOCKING, PIECE MARKED ①, AND POSITION THE PALLET UNITS DIRECTLY A GAINST THE FORWARD PORTION OF THE TRAILER.
- 5. STRUT TYPE REAR BLOCKING, AS SHOWN BY PIECES MARKED (3) AND (6) ON PAGE 10, WILL BE USED IN LIEU OF THE DEPICTED SOLID FILL, PIECE MARKED (2), WHEN THE SPACE BETWEEN THE LADING AND THE TRAILER DOORS IS 12" OR MORE
- 6. STACK UNITIZING STRAPS, PIECES MARKED ③ , WILL BE APPLIED AROUND THE REARMOST COMPLETE STACK AND AROUND THE MOST FORWARD COMPLETE STACK IN EACH ROW WHERE THE NUMBER OF LAYERS IN THE ROW CHANGES BY ONE.
- 7. THE BUNDLING STRAPS, PIECES MARKED (4), ARE SHOWN ENCIRCLING TWO COMPLETE STACKS. IF THE HEIGHT OF A PALLET STACK IS LESS THAN THE LENGTH OF THE PALLET JUNIT, THE STRAPS MAY BE INSTALLED SO AS TO ENCIRCLE ONLY THE REARMOST PALLET STACK.
- 8. IF TRAILERS WIDER THAN NINETY-TWO INCHES (92") ARE TO BE USED FOR A SHIPMENT (WIDER THAN 90-1/2" FOR LINE NO. 41) LATERAL BRACING WILL BE REQUIRED BETWEEN LATERALLY ADJACENT UNITS IN THE STACKED PORTION OF THE LOAD. REFER TO THE PROCEDURES SHOWN ON PAGES 10 AND 11 FOR GUIDANCE.
- PALLET UNITS WITHIN THE TOP LAYER WILL BE LOCATED SO AS TO PROVIDE FOR PROPER WEIGHT DISTRIBUTION, IF THE TOP LAYER IS NOT COMPLETE.
- 10. FOR FULL LOADS OF THE "OPEN-TYPE" PALLET UNITS OTHER THAN THOSE LISTED, REFER TO THE PROCEDURES ON PAGES 6 AND 7. THOSE PROCEDURES ARE ALSO APPLICABLE IF THE QUANTITY TO BE SHIPPED OF ANY OF THE ABOVE LISTED ITEMS IS SMALL ENOUGH (24 MAX FOR MOST ITEMS, 20 MAX FOR OTHERS) TO BE CONTAINED IN ONE LAYER, REFER TO PAGES 14 THRU 16 FOR GUIDANCE IN THE SHIPMENT OF ONLY A FEW PALLET UNITS.

LOAD AS SHOWN (TYPICAL)

<sup>→</sup> EMPTY WEIGHTS ARE SHOWN, SEE GENERAL NOTE "O" ON PAGE 2.



		LOAD C	APACITY CHART	( "OPEN-TYPE"	")
LINE NO.	CALIBER	DESIGNATION	UNIT WEIGHT IN POUNDS	MAX UNITS PER TRAILER	LOAD WEIGH
8	2,75 IN	WARHEAD WTU-1/B	1,880	22	41,360
1	75 MM	HE M309 A1	1,931	21	40,551
3 4	75 MM	HEAT-T, M310A1	1,931	21	40,551
. 3	75 MM	WP311A1	2,056	20	41,120
4	75 MM	HE M48	1,961	21	41,181
5	75 MM	SMOKE M64	2,090	20	41,800
	75 MM	HEAT M66	1,961	21	41,181
9	76 MM	WP-M361	1,858	22	40,876
10	76 MM	WP-M312	1,740	24	41,760
. 11	76 MM	HE M42A1	1,733	24	41,592
15	90 MM	AP M82	2,888	14	40,432
16	90 MM	HE M71	2,391	17	40,647
17	90 MM	WP M313	2,320	18.	41,760
12	105 MM	TACTICAL CS XM632	3,225	13	41,925
21	105 MM	HE MI	2,425	17	41,225
22	105 MM	HEAT M67	2,325	18	41,850
23	105 MM	HC,BE,M64,M84B1	2,225	18	40,050
24	105 MM	WP M60	2,475	17	42,075
26	105 MM	HE M323	2,375	17	40,375
27	105 MM	HEAT M324	1,795	23	41,285
28	105 MM	WP M325	2,435	17	41,395
29	105 MM	ILLUN, XM314A2E1	3,225	13	41,925
30	105 MM	HE M442	1,895	22	41,690
32	105 MM	TP-T XM468	2,365	17	40,205
33	120 MM	HE M73	2,661	15	39,915
34	120 MM	HE M356	2,142	19	40,698
35	120 MM	HE T15E3	2,548	16	40,768
. <b>3</b> 6	120 MM	CHEM TIGET	2,234	18	40,212
37	120 MM	CHEM T16E3	2,484	17	42,228

● EMPTY WEIGHTS ARE SHOWN. SEE GENERAL NOTE "O" ON PAGE 2.

	LOAD CAPACITY CHART (BOXED-TYPE)							
LINE NO.	CALIBER	DESIGNATION .	IN POUNDS -	MAX UNITS PER TRAILER	IN POUNDS			
8	90 MM	CANNISTER M377	2,144	19	40,736			
12	90 MM	TP-T M35321	2,173	19	41,287			
13	90 MM	AP-T M318A1C	2,173	19	41,287			
17	90 MM	CANNISTER M336	2,117	20	42,340			
21	120 MM	AP-T M368E1 OR AP-T M359	2,821	15	42,315			

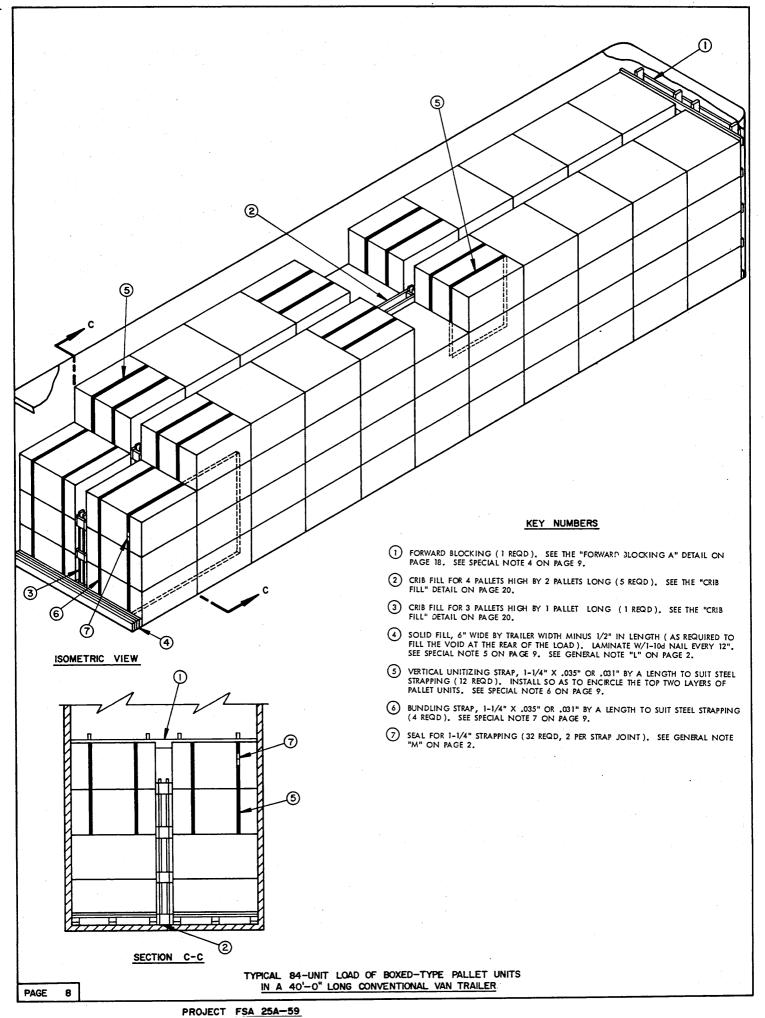
→ EMPTY WEIGHTS ARE SHOWN. SEE GENERAL NOTE "O" ON PAGE 2.

BILL OF MATERIAL (TYPICAL)			
LUMBER	LINEAR FEET	BOARD FEET	
2" X 4" 2" X 6"	162 72	108 72	
NAILS	NO. REQD	POUNDS	
10d (3")	224	3-1/2	

### SPECIAL NOTES:

- A 40'-0" LONG BY 7'-6" WIDE (INSIDE WIDTH DIMENSION) CONVENTIONAL VAN TRAILER IS SHOWN. TRAILERS OF OTHER DIMENSIONS CAN BE USED.
- 2. THE TYPICAL LOAD SHOWN IS APPLICABLE FOR THE "OPEN-TYPE" PALLET UNITS AS DETAILED BY PICATINNY ARSENAL DRAWING NO. F-8837835, AND FOR THE ITEMS AS SPECIFIED IN THE "LOAD CAPACITY CHART ("OPEN-TYPE")" AT LEFT. THE LOAD IS ALSO APPLICABLE FOR THE BOXED-TYPE PALLET UNITS AS DETAILED BY ORDNANCE CORPS DRAWING NO. F-7548604, AND FOR THE ITEMS AS SPECIFIED IN THE "LOAD CAPACITY CHART (BOXED-TYPE)" AT LEFT. THE PROCEDURES ARE APPLICABLE FOR LOADS WHICH CONSIST OF A FULL OR PARTIAL FIRST LAYER, AND WHICH MAY BE CLASSED EITHER AS A FULL LOAD OR AS AN LITL, DEPENDING UPON THE WEIGHT OF THE ITEM BEING LOADED. SEE SPECIAL NOTES 8 AND 9.
- 3. A 16-UNIT LOAD OF "OPEN-TYPE" PALLET UNITS MEASURING 38-1/8" LONG BY 44-3/4" WIDE BY 25-5/8" HIGH AND WEIGHING 2,548 POUNDS IS SHOWN AS TYPICAL. THE ACTUAL QUANTITY THAT CAN BE SHIPPED WILL DEPEND UPON THE WEIGHT OF THE ITEM BEING LOADED AND THE CAPACITY OF THE TRAILER BEING USED. SEE THE LOAD CAPACITY CHARTS AT LEFT FOR GUIDANCE.
- 4. A TRAILER HAVING ROUNDED CORNERS AT THE FORWARD END IS SHOWN. IF THE LOAD TO BE SHIPPED CONSISTS OF ONE OR MORE 2-WIDE LOAD UNITS AT THE FRONT OF THE LOAD, A "FORWARD BLOCKING A" ASSEMBLY MUST BE INSTALLED IN LIEU OF THE "FORWARD BLOCKING B" ASSEMBLY, SEE THE "FORWARD BLOCKING A" DETAIL ON PAGE 18. IF THE TRAILER BEING USED IS EQUIPPED WITH A SQUARE FRONT OR WITH AN INSTALLED BULKHEAD, OMIT THE FORWARD BLOCKING AND POSITION THE PALLET UNITS DIRECTLY A GAINST THE FORWARD PORTION OF THE TRAILER.
- 5. LATERAL BLOCKING IS NOT REQUIRED BETWEEN THE TWO ROWS OF PALLET UNITS IF THE EXCESS SPACE IS LESS THAN FOUR INCHES (4"). LOADS OF "OPEN-TYPE" PALLET UNITS WILL THEREFORE NOT REQUIRE LATERAL BLOCKING; HOWEVER, LOADS OF BOX-TYPE PALLET UNITS MOST GENERALLY WILL. SEE THE "ANTI-SWAY BRACE A" DETAIL ON PAGE 19 FOR AN ASSEMBLY TO BE USED IF THE EXCESS LATERAL SPACE IS LESS THAN EIGHT INCHES (8"). USE "ANTI-SWAY BRACE B", AS DETAILED ON PAGE 19, FOR A WIDER SPACE.
- 6. STRUT TYPE REAR BLOCKING, AS SHOWN BY PIECES MARKED (3) AND (6) ON PAGE 10, WILL BE USED IN LIEU OF THE DEPICTED SOLID FILL, PIECE MARKED (4), WHEN THE SPACE BETWEEN THE LADING AND THE TRAILER DOORS IS 12" OR MORE, K-BRACE BLOCKING, AS SHOWN ON PAGE 15 BY PIECES (2) THRU (2), MAY BE USED PROVIDING THE SPACE AT THE REAR OF THE TRAILER IS AT LEAST 60" AND PROVIDING THE LOAD DOES NOT EXCEED 26,000 POUNDS.
- THE 2-WIDE PORTION OF A LOAD MAY BE DIVIDED, WITH SOME OF THE SIDE-BY-SIDE UNITS PLACED AT THE FORWARD END OF THE TRAILER, AS NECESSARY TO PROVIDE FOR PROPER WEIGHT DISTRIBUTION.
- 8. FOR FULL LOADS OF THE "OPEN-TYPE" PALLET UNITS OTHER THAN THOSE LISTED ABOVE, REFER TO THE PROCEDURES ON PAGES 4 AND 5. REFER TO PAGES 14 THRU 16 FOR GUIDANCE IN THE SHIPMENT OF ONLY A FEW PALLET UNITS.
- 9. FOR FULL LOADS OF THE BOXED-TYPE PALLET UNITS OTHER THAN THOSE LISTED ABOVE, REFER TO THE "BOXED-TYPE PALLET UNIT INDEX" ON PAGE 38 AND TO THE APPLICABLE PROCEDURES ON PAGES 8 THRU 13. REFER TO PAGES 14 THRU 16 FOR GUIDANCE IN THE SHIPMENT OF ONLY A FEW PALLET UNITS.

LOAD AS SHOWN (TYPICAL)



					1 4 4 5 1 T
		LOAD CAP	ACITY CHART		
LINE	CALIBER	DESIGNATION	UNIT WEIGHT IN POUNDS 🖨	MAX UNITS: PER TRAILER	MAX WEIGHT IN POUNDS
2	75MM	HEP-T150E29 OR T165E29	852	49	41,748
3	75MM	HEP-T151E28	822	51	41,922
9	76MM	HVAP-T T66E3 OR T66E5	850	49	41,650
10	76MM	HEAT-T M496	900	46	41,400
26	81MM	WP M375E2	880	48	42,240
23	90MM	HEAT M371E1	473	88	41,624

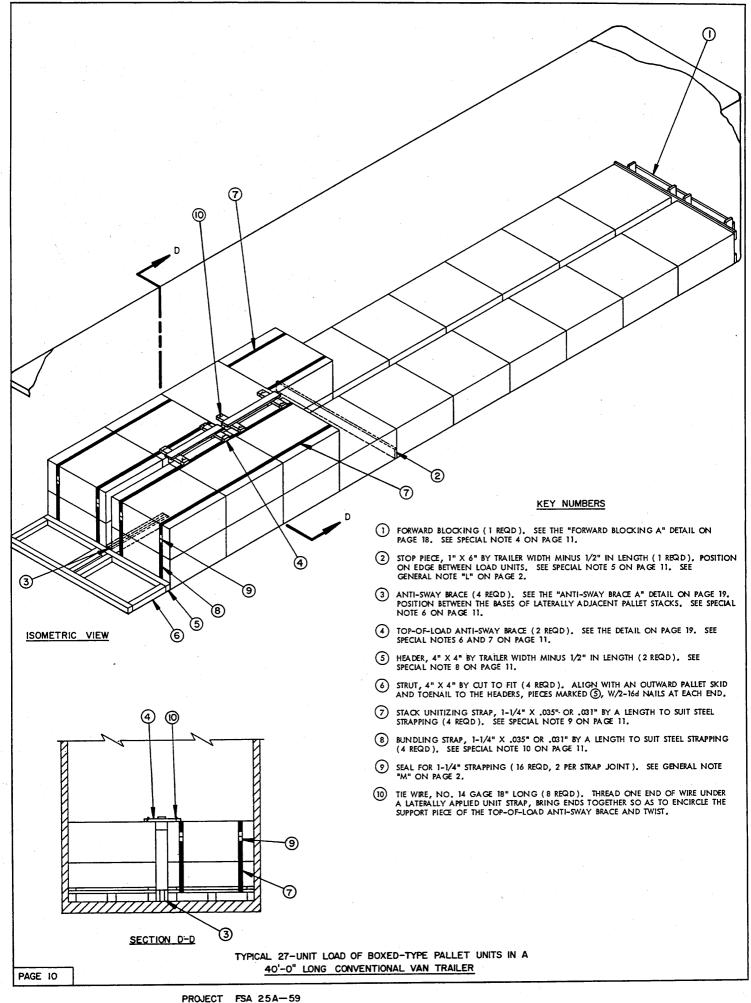
€ EMPTY WEIGHTS ARE SHOWN. SEE GENERAL NOTE "O" ON PAGE 2.

	BILL OF MATERIA	1
LUMBER	LINEAR FEET	BOARD FEET
2" X 4" 2" X 6"	155 3 <b>9</b> 0	104 390
NAILS	NO. REQ D	POUNDS
10d (3")	760	11-3/4

### SPECIAL NOTES:

- A 40'-0" LONG BY 7'-6" WIDE (INSIDE WIDTH DIMENSION) CONVENTIONAL VAN TRAILER IS SHOWN. TRAILERS OF OTHER DIMENSIONS CAN BE USED.
- THE TYPICAL LOAD SHOWN IS APPLICABLE FOR BOXED-TYPE PALLET UNITS AS DETAILED BY ORDNANCE CORPS DRAWING NO. F-7548604, AND FOR THE ITEMS AS SPECIFIED IN THE "LOAD CAPACITY CHART" AT LEFT. THE PROCEDURES ARE APPLICABLE FOR LOADS WHICH CONSIST OF MORE THAN TWO LAYERS. SEE SPECIAL NOTE 9.
- 3. AN 84-UNIT LOAD OF BOXED-TYPE PALLET UNITS MEASURING 41-7/8" LONG BY 41-7/8" WIDE BY 21-5/16" HIGH AND WEIGHING 473 POUNDS IS SHOWN AS TYPICAL. THE ACTUAL QUANTITY THAT CAN BE SHIPPED WILL DEPEND UPON THE WEIGHT AND/OR SIZE OF THE ITEM BEING LOADED AND THE CAPACITY OF THE TRAILER BEING USED, SEE THE "LOAD CAPACITY CHART" AT LEFT FOR GUIDANCE. NOTE THAT THESE PROCEDURES ARE ONLY APPLICABLE FOR LOADS OF MORE THAN TWO LAYERS. SEE SPECIAL NOTE 9.
- 4. A TRAILER HAVING ROUNDED CORNERS AT THE FORWARD END IS SHOWN, IF THE TRAILER BEING USED IS EQUIPPED WITH A SQUARE FRONT OR WITH AN INSTALLED BULKHEAD, OMIT THE FORWARD BLOCKING, PIECE MARKED (1), AND POSITION THE PALLET UNITS DIRECTLY AGAINST THE FORWARD PORTION OF THE TRAILER.
- 5. STRUT TYPE REAR BLOCKING, AS SHOWN BY PIECES MARKED ③ AND ⑥ ON PAGE 10, WILL BE USED IN LIEU OF THE DEPICTED SOLID FILL, PIECE MARKED ④ , WHEN THE SPACE BETWEEN THE LADING AND THE TRAILER DOORS IS 12" OR MORE.
- 6. VERTICAL UNITIZING STRAPS, PIECES MARKED (3), WILL BE APPLIED AROUND THE TOP TWO (2) LAYERS OF A STACK IN EACH ROW WHERE THE NUMBER OF LAYERS IN THE ROW CHANGES BY ONE.
- THE BUNDLING STRAPS, PIECES MARKED (6), WILL BE INSTALLED SO AS TO ENCIRCLE THE REARMOST STACK IN A ROW AND THE SAME NUMBER OF PALLET UNITS IN THE STACK IMMEDIATELY ADJACENT,
- PALLET UNITS WITHIN THE TOP LAYER WILL BE LOCATED SO AS TO PROVIDE FOR PROPER WEIGHT DISTRIBUTION, IF THE TOP LAYER IS NOT COMPLETE.
- 9. FOR FULL LOADS OF THE BOXED-TYPE PALLET UNITS OTHER THAN LISTED ABOVE, REFER TO THE "BOXED-TYPE PALLET UNIT INDEX" ON PA.GES 38 AND TO THE APPLICABLE PROCEDURES ON PA.GES 6 AND 7 AND PA.GES 10 THRU 13. THE OUTLOADING PROCEDURES ON PA.GES 6 AND 7 WILL BE USED IF THE QUANTITY TO BE SHIPPED OF ANY OF THE ABOVE LISTED ITEMS IS SMALL ENOUGH TO BE CONTAINED IN ONE LAYER; THE PROCEDURES ON PA.GES 10 AND 11 WILL BE USED IF THE QUANTITY IS SUCH THAT A FULL OR PARTIAL SECOND LAYER WILL BE REQUIRED, REFER TO PA.GES 14 THRU 16 FOR GUIDANCE IN THE SHIPMENT OF ONLY A FEW PALLET UNITS.

LOAD AS SHOWN (TYPICAL)



	,	LOAD (	CAPACITY CHART	<u> </u>	
LINE NO.	CALIBER	DESIGNATION	UNIT WEIGHT IN POUNDS 🖨	MAX UNITS PER TRAILER	MAX WEIGHT IN POUNDS
24	2.75 IN	WARHEAD HE XM229	1,961	21	41,181
1	75MM	AP-T M338A1	2.042	20	40,840
5	76MM	HVAP-T M93A1	1,074	39	41,886
6	76MM	AP-T M339E1 OR TP-T M340A1E1	1,534	27	41,418
. 7	76MM	CANNISTER M363	1,585	26	41,210
11	90MM	HVAP-TM332A1E1 OR HVTP-M333A1E1	1,202	35	42,070
4	105MM	APERS-T M380	1,720	24	41,280
4	195MM	APERS-T XM603E1	1,894	22	41,668
18	105MM	HEAT M456A1 OR M456A1E1	1,209	35	42,315
20#	105MM	APDS-T M392A3	1,080	39	42,120
25	105MM	TP-T M459	2,060	20	41,200
22	120MM	HEAT M469	1,225	34	41,650

<sup>\*</sup> SEE SPECIAL NOTE 13.

·	BILL OF MATERIA	L (TYPICAL)				
LUMBER	LINEAR FEET	BOARD FEET				
1" X 4" 1" X 6" 2" X 4" 2" X 6" 4" X 4"	6 8 55 28 34	2 4 37 28 46				
NAILS	NO. REQD	POUNDS				
6d (2") 10d (3") 12d (3-1/4") 16d (3-1/2")	16 80 16 16	1/4 1-1/4 1/4 1/2				
STEEL STRAPPING, 1-1/4" X .035" OR .031" 112' REQD 16 LBS SEAL FOR 1-1/4" STRAPPING 16 REQD 1 LB WIRE, NO. 14 GAGE 12' REQD NIL						

### SPECIAL NOTES:

- A 40'-0" LONG BY 7'-6" WIDE (INSIDE WIDTH DIMENSION) CONVENTIONAL VAN TRAILER IS SHOWN. TRAILERS OF OTHER DIMENSIONS CAN BE USED.
- 2. THE TYPICAL LOAD SHOWN IS APPLICABLE FOR BOXED-TYPE PALLET UNITS AS DETAILED BY ORDNANCE CORPS DRAWING NO., F-7548604, AND FOR THE ITEMS AS SPECIFIED IN THE "LOAD CAPACITY CHART" AT LEFT. THE PROCEDURES ARE APPLICABLE FOR LOADS WHICH CONSIST OF A FULL FIRST LAYER AND A PARTIAL OR FULL SECOND LAYER AND WHICH MAY BE CLASSED EITHER AS A FULL LOAD OR AS AN LTL, DEPENDING UPON THE WEIGHT OF THE ITEM BEING LOADED. SEE SPECIAL NOTE 12.
- 3. A 27-UNIT LOAD OF BOXED-TYPE PALLET UNITS MEASURING 40-1/2" LONG BY 38-1/2" WIDE BY 18-3/4" HIGH AND WEIGHING 1,534 POUNDS IS SHOWN AS TYPICAL. THE ACTUAL QUANTITY THAT CAN BE SHIPPED WILL DEPEND UPON THE WEIGHT AND/OR SIZE OF THE ITEM BEING LOADED AND THE CAPACITY OF THE TRAILER BEING USED. SEE THE "LOAD CAPACITY CHART" AT LEFT FOR GUIDANCE. NOTE THAT THESE PROCEDURES ARE ONLY APPLICABLE FOR 2-LAYER LOADS. SEE SPECIAL NOTE 12.
- 4. A TRAILER HAVING ROUNDED CORNERS AT THE FORWARD END IS SHOWN.

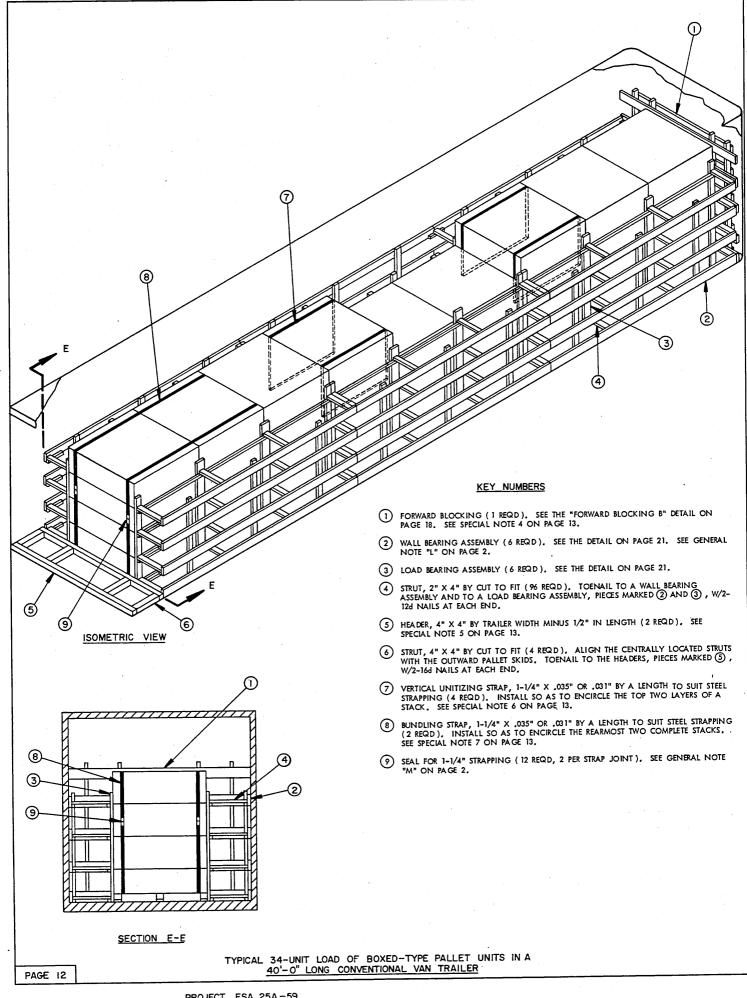
  IF THE TRAILER BEING USED IS EQUIPPED WITH A SQUARE FRONT OR WITH
  AN INSTALLED BULKHEAD, OMIT THE FORWARD BLOCKING, PIECE MARKED

  (1), AND POSITION THE PALLET UNITS DIRECTLY AGAINST THE FORWARD
  PORTION OF THE TRAILER.
- 5. THE STOP PIECE, PIECE MARKED ② , IS REQUIRED SO AS TO RETAIN THE FLOOR LINE ANTI-SWAY BRACING FOR THE 2-LAYER PORTION OF THE LOAD. IF A LOAD CONSISTS OF TWO COMPLETE LAYERS, OMIT THE STOP PIECE; INSTALL ANTI-SWAY BRACE AT ALL LOCATIONS.
- 6. THE ANTI-SWAY BRACE A SHOWN IN THE LOAD VIEW IS APPLICABLE FOR USE IN AN EXCESS LATERAL SPACE OF FROM 2-1/2" TO 8". FOR A LATERAL VOID OF 8" OR MORE, ANTI-SWAY BRACE B WILL BE USED. SEE THE DETAIL ON PAGE 19. FLOOR LINE ANTI-SWAY BRACES, PIECES MARKED (3), AND TOP OF LOAD ANTI-SWAY BRACES, PIECES MARKED (4), ARE NOT REQUIRED IF THE LATERAL VOID BETWEEN ROWS IN A LOAD IS 2-1/2" OR LESS.
- 7. TOP-OF-LOAD ANTI-SWAY BRACES ARE REQUIRED FOR ALL VOIDS OVER 2-1/2"
  BETWEEN ALL LATERALLY ADJACENT STACKS UNLESS BOTH STACKS ARE
  STRAPPED WITH EITHER STACK UNITIZING STRAPS, PIECES MARKED (?), OR
  BUNDLING STRAPS, PIECES MARKED (?). TOP-OF-LOAD ANTI-SWAY BRACES
  ARE REQUIRED BETWEEN ALL LATERALLY ADJACENT STACKS WHICH ARE OVER
  44" ( STACKED HEIGHT ) WHETHER OR NOT THE STACKS ARE STRAPPED.
- 8. SOLID FILL TYPE REAR BLOCKING, AS SHOWN BY PIECE MARKED (4) ON PAGE 8, WILL BE USED IN LIEU OF THE DEPICTED HEADERS AND STRUTS, PIECES MARKED (3) AND (6), WHEN THE SPACE BETWEEN THE LADING AND THE TRAILER DOORS IS LESS THAN 12".
- 9. STACK UNITIZING STRAPS, PIECES MARKED (1), WILL BE APPLIED AROUND THE MOST FORWARD (AND MOST REARWARD IF APPLICABLE) COMPLETE STACK IN EACH ROW WHERE THE NUMBER OF LAYERS IN THE ROW CHANGES BY ONE. IF THE LAST STACK IN A ROW DOES NOT HAVE A FULL STACK LATERALLY ADJACENT TO IT, AND IF THE STACK IS OVER 44" HIGH, THE STACK UNITIZING STRAPS MUST BE INSTALLED SO AS TO ENCIRCLE TWO (2) LONGITUDINALLY ADJACENT STACKS,
- 10. THE BUNDLING STRAPS, PIECES MARKED (1), ARE SHOWN ENCIRCLING TWO COMPLETE STACKS. IF THE HEIGHT OF A PALLET STACK IS LESS THAN THE LENGTH OF THE PALLET UNIT, THE STRAPS MAY BE INSTALLED SO AS TO ENCIRCLE ONLY THE REARMOST PALLET STACK.
- 11. PALLET UNITS WITHIN THE TOP LAYER WILL BE LOCATED SO AS TO PROVIDE FOR PROPER WEIGHT DISTRIBUTION, IF THE TOP LAYER IS NOT COMPLETE.
- 12. FOR FULL LOADS OF THE BOXED-TYPE PALLET UNITS OTHER THAN THOSE LISTED ABOVE, REFER TO THE "BOXED-TYPE PALLET UNIT INDEX" ON PAGE 38 AND TO THE APPLICABLE PROCEDURES ON PAGES 6 THRU 9, AND PAGES 12 AND 13. THE OUTLOADING PROCEDURES ON PAGES 6 AND 7 WILL BE USED IF THE QUANTITY TO BE SHIPPED OF ANY OF THE ABOVE LISTED ITEMS IS SMALL ENOUGH TO BE CONTAINED IN ONE LAYER, REFER TO PAGES 14 THRU 16 FOR GUIDANCE IN THE SHIPMENT OF ONLY A FEW PALLET UNITS.
- 13. THE OUTLOADING PROCEDURES ON PAGE 10 AND THIS PAGE ARE APPLICABLE FOR THE LOADING OF LINE ITEM NO. 20 ONLY IN TRAILERS WHICH ARE 91" OR GREATER IN WIDTH. REFER TO THE PROCEDURES DEPICTED ON PAGES 12 AND 13 IF A SHIPMENT IS TO BE MADE IN A NARROWER TRAILER.

### LOAD AS SHOWN (TYPICAL)

ITEM	QUA	ANTITY	WEI	GHT (APPROX)
	VIT:			
	TOTAL WEIGHT		41.671	185

<sup>€</sup> EMPTY WEIGHTS ARE SHOWN. SEE GENERAL NOTE "O" ON PAGE 2.



		LOAD CA	PACITY CHART		
LINE NO.	CALIBER	DESIGNATION	UNIT WEIGHT IN POUNDS	MAX UNITS PER TRAILER	MAX WEIGHT IN POUNDS
14	90MM	HEAT M431E1	1,320	32	42,240
15	105MM	HEP-T M345 OR M345B1	964	36	34,704
16	105MM	HEAT M341	1,197	27	32,319
20*	105MM	APDS-T M392A3	1,080	39	42,120
19	106MM	HEP-T M346A1	964	36	34,704

<sup>\*</sup> SEE SPECIAL NOTE 9.

LUMBER	LINEAR FEET	BOARD FEET	
2" X 2"	470	157	
2" X 4"	2" X 4" 380		
2" X 6" 498		498	
4" X 4"	31	42	
NAILS	NO. REQD	POUNDS	
10d (3")	782	12-1/4	
12d (3-1/4")	384	6-1/2	
16d (3-1/2")	16	1/2	

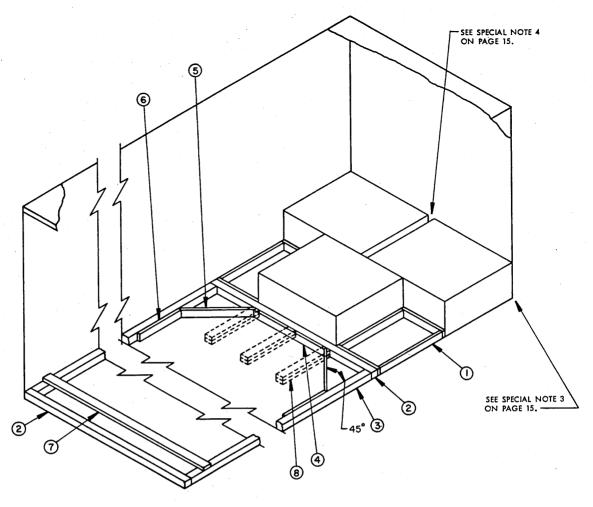
### SPECIAL NOTES:

- A 40'-0" LONG BY 7'-6" WIDE (INSIDE WIDTH DIMENSION) CONVENTIONAL VAN TRAILER IS SHOWN. TRAILERS OF OTHER DIMENSIONS CAN BE USED.
- 2. THE TYPICAL LOAD SHOWN IS APPLICABLE FOR BOXED-TYPE PALLET UNITS AS DETAILED BY ORDNANCE CORPS DRAWING NO. F-7548604 AND FOR THE ITEMS AS SPECIFIED IN THE "LOAD CAPACITY CHART" AT LEFT. THE PROCEDURES ARE APPLICABLE ONLY FOR THOSE PALLET UNITS WHICH ARE TOO WIDE TO BE LOADED TWO UNITS WIDE IN A TRAILER AND ONLY FOR LOADS CONSISTING OF TWO OR MORE LAYERS. SEE SPECIAL NOTE 8.
- 3. A 34-UNIT LOAD OF BOXED-TYPE PALLET UNITS MEASURING 46-5/8" LONG BY 45-1/4" WIDE BY 18-5/16" HIGH AND WEIGHING 1,080 POUNDS IS SHOWN AS TYPICAL. THE ACTUAL QUANTITY THAT CAN BE SHIPPED WILL DEPEND UPON THE WEIGHT AND/OR SIZE OF THE ITEM BEING LOADED AND THE CAPACITY OF THE TRAILER BEING USED. SEE THE "LOAD CAPACITY CHART" AT LEFT FOR GUIDANCE. NOTE THAT THESE PROCEDURES ARE ONLY APPLICABLE FOR 1-WIDE LOADS CONSISTING OF TWO OR MORE LAYERS. SEE SPECIAL NOTE 8.
- 4. A TRAILER HAVING ROUNDED CORNERS AT THE FORWARD END IS SHOWN, IF THE TRAILER BEING USED IS EQUIPPED WITH A SQUARE FRONT OR WITH AN INSTALLED BULKHEAD, OMIT THE FORWARD BLOCKING, PIECE MARKED (1), AND POSITION THE PALLET UNITS DIRECTLY AGAINST THE FORWARD PORTION OF THE TRAILER.
- 5. SOLID FILL TYPE REAR BLOCKING, AS SHOWN BY PIECE MARKED (4) ON PAGE 8, WILL BE USED IN LIEU OF THE DEPICTED HEADERS AND STRUTS, PIECES MARKED (3) AND (6), WHEN THE SPACE BETWEEN THE LADING AND THE TRAILER DOORS IS LESS THAN 12".
- 6. VERTICAL UNITIZING STRAPS, PIECES MARKED (7), WILL BE APPLIED AROUND THE TOP TWO (2) LAYERS OF A STACK WHERE THE NUMBER OF LAYERS IN THE ROW CHANGES BY ONE.
- 7. THE BUNDLING STRAPS, PIECES MARKED (3) WILL BE INSTALLED SO AS TO ENCIRCLE THE REARMOST STACK AND THE SAME NUMBER OF PALLET UNITS IN THE STACK IMMEDIATELY ADJACENT. IF THE HEIGHT OF A PALLET STACK IS LESS THAN THE LENGTH OF THE PALLET UNIT, THE STRAPS MAY BE INSTALLED SO AS TO ENCIRCLE ONLY THE REARMOST PALLET STACK.
- 8. FOR FULL LOADS OF THE BOXED-TYPE PALLET UNITS OTHER THAN LISTED ABOVE, REFER TO THE "BOXED-TYPE PALLET UNIT INDEX" ON PAGE 38 AND TO THE APPLICABLE PROCEDURES ON PAGES 6 THRU 11. THE 1-WIDE PORTION OF THE OUTLOADING PROCEDURES ON PAGES 6 AND 7 WILL BE USED IF THE QUANTITY TO BE SHIPPED OF THE ABOVE LISTED ITEMS IS SMALL ENOUGH TO BE CONTAINED IN ONE LAYER, REFER TO PAGES 14 THRU 16 FOR GUIDANCE IN THE SHIPMENT OF ONLY A FEW PALLET UNITS.
- 9. THE OUTLOADING PROCEDURES ON PAGE 12 AND THIS PAGE ARE APPLICABLE FOR FULL LOADS OF LINE ITEM NO. 20 ONLY IN TRAILERS WHICH ARE LESS THAN 91" WIDE. REFER TO THE PROCEDURES DEPICTED ON PAGES 10 AND 11 IF TRAILERS 91" OR WIDER ARE FURNISHED FOR LOADING.

LOAD AS SHOWN (TYPICAL)

TYPICAL 34-UNIT LOAD OF BOXED-TYPE PALLET UNITS IN A 40'-0" LONG CONVENTIONAL VAN TRAILER

<sup>→</sup> EMPTY WEIGHTS ARE SHOWN, SEE GENERAL NOTE "O" ON PAGE 2.



# ISOMETRIC VIEW

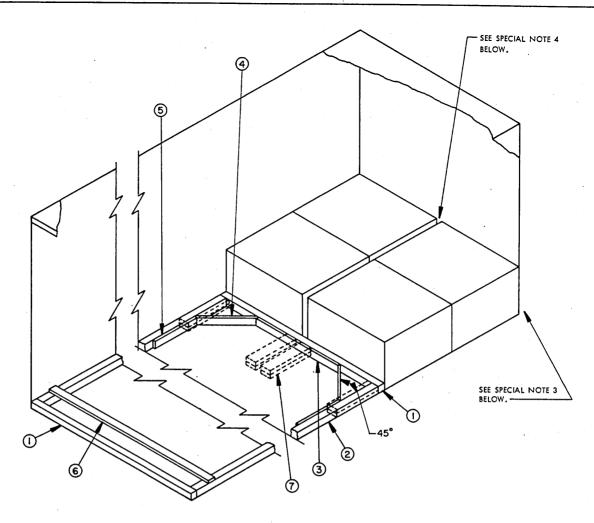
### SPECIAL NOTES

- A 7'-6" WIDE (INSIDE WIDTH DIMENSION) CONVENTIONAL VAN TRAILER IS SHOWN. TRAILERS OF OTHER WIDTHS CAN BE USED.
- 2. THE TYPICAL LTL LOAD SHOWN IS APPLICABLE FOR EITHER BOXED-TYPE OR "OPEN-TYPE" PALLET UNITS.
- 3. THE ANTI-SWAY BRACES, PIECES MARKED (1), ARE ONLY REQUIRED WHEN SHIPPING AN UNEVEN NUMBER OF PALLET UNITS IN THE CONFIGURATION SHOWN.
- 4. THE REAR BLOCKING, PIECES MARKED ② THRU ⑦, IS ADEQUATE FOR RETAINING A MAXIMUM LTL LOAD OF 26,000 POUNDS.
- 5. THE BACK-UP CLEATS, PIECES MARKED (B), ARE FOR USE IN A TRAILER EQUIPPED WITH A NAILABLE FLOOR AND MAY BE USED IN LIEU OF REAR PIECE (2) AND PIECES MARKED (3) THRU (7). THREE (3) 30" LONG BACK-UP CLEATS ARE ADEQUATE FOR RETAINING NOT MORE THAN 10,800 POUNDS. THREE (3) 36" LONG BACK-UP CLEATS WITH 9 NAILS IN EACH LAYER ARE ADEQUATE FOR RETAINING NOT MORE THAN 14,000 POUNDS.
- 6. ALL LTL LOADS, REGARDLESS OF THEIR SIZE, REQUIRE ONE STRUT BRACE POSITIONED NEAR THE REAR OF THE TRAILER. IF THE SIDE STRUTS ARE LONGER THAN 7'-0", AN ADDITIONAL STRUT BRACE, PIECE MARKED ① ON THIS PAGE OR PIECE MARKED ② ON PAGE 15, MUST BE APPLIED FOR EVERY 7'-0" OF SIDE STRUT LENGTH.
- 7. THE SIDE STRUTS, PIECES MARKED ③ ON THIS PAGE OR PIECES MARKED ② ON PAGE 15, MAY NEED TO BE FORMED FROM MORE THAN ONE PIECE OF MATERIAL. IF SUCH IS THE CASE, THE SIDE STRUTS MUST BE SPLICED. SPLICING CAN BE ACCOMPLISHED BY CENTERING A 2" X 4" X 24" PIECE ON TOP OF THE JOINT OF THE SIDE STRUTS AND NAILING IT TO THE SIDE STRUTS W/4-104 NAILS AT EACH

### KEY NUMBERS

- (1) ANTI-SWAY BRACE (2 REQD ). SEE THE "ANTI-SWAY BRACE B" DETAIL ON PAGE 19.
- 2 HEADER, 4" X 4" BY TRAILER WIDTH MINUS 1/2" IN LENGTH (2 REQD).
- (3) SIDE STRUT, 4" X 4" BY CUT TO FIT BETWEEN THE FORWARD AND REAR HEADERS, PIECES MARKED (2) (2 REQD). TOENAIL TO THE HEADERS W/2-16d NAILS AT EACH END. SEE SPECIAL NOTE 7 AT LEFT.
- (4) CENTER CLEAT, 2" X 4" X 40" (1 REQD). NAIL TO A HEADER, PIECE MARKED ②, W/7-10d NAILS.
- (5) DIAGONAL BRACE, 2" X 4" BY CUT TO FIT (2 REQD). DOUBLE BEVEL EACH END WITH 45° CUTS. INSTALL AT A 45° ANGLE AS SHOWN AND TOENAIL TO A HEADER AND A SIDE STRUT, PIECES MARKED (2) AND (3), W/2-16d NAILS AT EACH FIND.
- 6 SIDE CLEAT, 2" X 4" X 24" (2 REQD). NAIL TO A SIDE STRUT, PIECE MARKED (3), W/8-10d NAILS.
- (7) STRUT BRACE, 2" X 4" BY TRAILER WIDTH MINUS 1/2" IN LENGTH (MINIMUM OF ONE REQUIRED). POSITION NEAR REAR OF TRAILER AND NAIL TO THE SIDE STRUTS, PIECES MARKED (3), W/2-12d NAILS AT EACH END. SEE SPECIAL NOTE 6 AT LEFT.
- BACK-UP CLEAT, 2" X 4" X 30" ( DOUBLED ) (3 REQD ). ALIGN WITH CONTAINER SKIDS AND NAIL THE FIRST PIECE TO THE TRAILER FLOOR W/7-12d NAILS. NAIL THE SECOND PIECE TO THE FIRST IN A LIKE MANNER. TOENAIL THE TOP PIECE TO A HEADER, PIECE MARKED ②, W/2-12d NAILS. SEE SPECIAL NOTE 5 AT LEFT.

TYPICAL 3-UNIT LOAD OF "OPEN-TYPE" OR BOXED-TYPE
PALLET UNITS IN A CONVENTIONAL VAN TRAILER



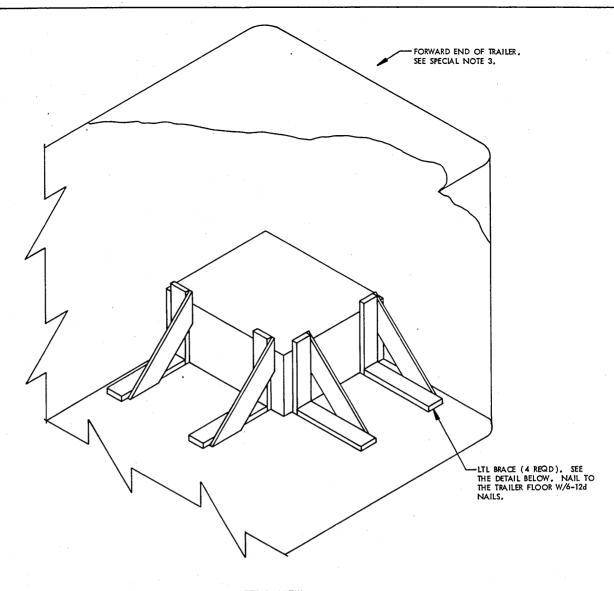
# ISOMETRIC VIEW

### SPECIAL NOTES:

- A 7'-6" WIDE (INSIDE WIDTH DIMENSION) CONVENTIONAL VAN TRAILER IS SHOWN.
  TRAILERS OF OTHER WIDTHS CAN BE USED.
- 2. THE TYPICAL LTL LOAD SHOWN IS APPLICABLE FOR EITHER BOXED-TYPE OR "OPEN-TYPE" PALLET UNITS.
- 3. A TRAILER HAVING SQUARE CORNERS AT THE FORWARD END IS SHOWN. IF THE TRAILER IS EQUIPPED WITH ROUNDED CORNERS, A FORWARD BLOCKING ASSEMBLY MUST BE INSTALLED AT THE FRONT OF THE TRAILER PRIOR TO POSITIONING OF THE PALLET UNITS. SEE THE "FORWARD BLOCKING A" DETAIL ON PAGE 18.
- 4. LATERAL BLOCKING MUST BE EMPLOYED IF THE EXCESS SPACE BETWEEN THE TWO ROWS OF PALLET UNITS IS FOUR INCHES (4") OR MORE. SEE THE "ANTI-SWAY BRACE A" DETAIL ON PAGE 19 FOR AN ASSEMBLY TO BE USED IF THE EXCESS LATERAL SPACE IS LESS THAN EIGHT INCHES (8"). USE "ANTI-SWAY BRACE B" AS DETAILED ON PAGE 19 FOR A WIDER SPACE.
- THE REAR BLOCKING, PIECES MARKED ① THRU ⑥, IS ADEQUATE FOR RETAIN-ING A MAXIMUM LTL LOAD OF 26,000 POUNDS.
- 6. THE BACK-UP CLEATS, SHOWN AS PIECES MARKED (7), ARE FOR USE IN A TRAILER EQUIPPED WITH A NAILABLE FLOOR AND MAY BE USED IN LIEU OF REAR PIECE (1) AND PIECES MARKED (2) THRU (3). FOUR (4) 30" LONG BACK-UP CLEATS ARE ADEQUATE FOR RETAINING NOT MORE THAN 15,600 POUNDS. FOUR (4) 36" BACK-UP CLEATS WITH 9 NAILS IN EACH LAYER ARE ADEQUATE FOR RETAINING NOT MORE THAN 20,000 POUNDS.

# KEY NUMBERS

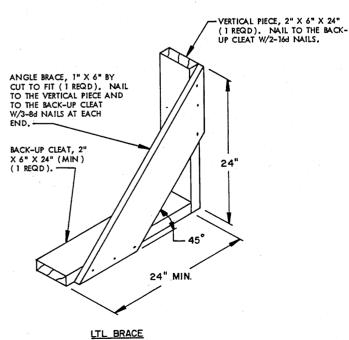
- 1 HEADER, 4" X 4" BY TRAILER WIDTH MINUS 1/2" IN LENGTH (2 REQD).
- 2 SIDE STRUT, 4" X 4" BY CUT TO FIT BETWEEN THE FORWARD AND REAR HEADERS, PIECES MARKED (1) (2 REQD). TOENAIL TO THE HEADERS W/2-16d NAILS AT EACH END. SEE SPECIAL NOTE 7 ON PAGE 14.
- 3 CENTER CLEAT, 2" X 4" X 48" (1 REQD). NAIL TO A HEADER, PIECE MARKED (1), W/9-10d NAILS.
- 4 DIAGONAL BRACE, 2" X 4" BY CUT TO FIT (2 REQD). DOUBLE BEVEL EACH END WITH 45° CUTS. INSTALL AT A 45° ANGLE AS SHOWN AND TOENAIL TO A HEADER AND A SIDE STRUT W/2-16d NAILS AT EACH END.
- 5 SIDE CLEAT, 2" X 4" X 24" (2 REQD). NAIL TO A SIDE STRUT, PIECE MARKED (2), W/B-10d NAILS.
- 6 STRUT BRACE, 2" X 4" BY TRAILER WIDTH MINUS 1/2" IN LENGTH (MINIMUM OF ONE REQUIRED). POSITION NEAR REAR OF TRAILER AND NAIL TO THE SIDE STRUTS W/2-12d NAILS AT EACH END. SEE SPECIAL NOTE 6 ON PAGE 14.
- (7) BACK-UP CLEAT, 2" X 4" X 30" (DOUBLED) (4 REQD). ALIGN WITH AN OUTWARD CONTAINER SKID AND NAIL THE FIRST PIECE TO THE TRAILER FLOOR W/7-12d NAILS. NAIL THE SECOND PIECE TO THE FIRST IN A LIKE MANNER. TOENAIL TO A HEADER W/2-12d NAILS. SEE SPECIAL NOTE 6 AT LEFT.



# ISOMETRIC VIEW

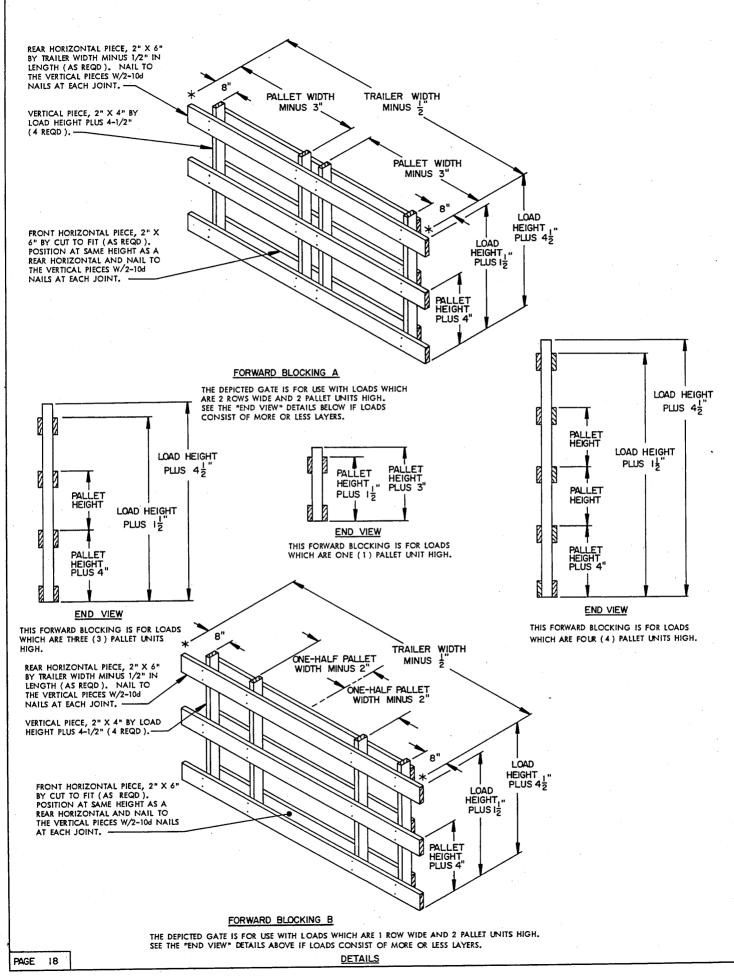
# SPECIAL NOTES:

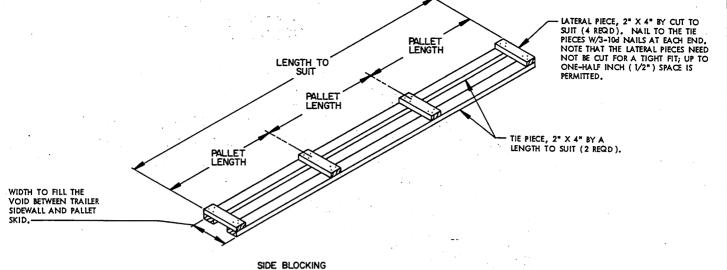
- A 7'-6" WIDE (INSIDE WIDTH DIMENSION) CONVENTIONAL VAN TRAILER WHICH HAS A NAILABLE FLOOR IS SHOWN. TRAILERS OF OTHER WIDTHS CAN BE USED.
- 2. THE TYPICAL 1-UNIT LOAD SHOWN IS APPLICABLE FOR EITHER BOXED-TYPE OR "OPEN-TYPE" PALLET UNITS. <u>CAUTION:</u> THESE PROCEDURES ARE LIMITED TO PALLET UNITS WHICH ARE 24" OR LESS IN HEIGHT.
- 3. A TRAILER HAVING ROUNDED FRONT CORNERS IS SHOWN. IF THE INSIDE CORNERS ARE OF SUCH A DESIGN THAT A PALLET UNIT WILL NOT FIT INTO THE CORNER, A FORWARD BLOCKING ASSEMBLY MUST BE INSTALLED. SEE THE "FORWARD BLOCKING A" DETAIL ON PAGE 18.
- MORE THAN ONE PALLET UNIT CAN BE SHIPPED, PROVIDING THE CAPACITY OF THE LTL BRACES IS NOT EXCEEDED. THE LOAD SHOULD BE FORMED IN ROWS, WITH THE UNITS POSITIONED AGAINST OPPOSITE SIDEWALLS. THE PROPER ANTI-SWAY BRACES, IF REQUIRED, WILL BE POSITIONED BETWEEN THE LATERALLY ADJACENT UNITS. SEE THE "ANTI-SWAY BRACE A" AND "ANTI-SWAY BRACE B" DETAILS ON PAGE 19.
- EACH LTL BRACE AS APPLIED FOR LONGITUDINAL BRACING WILL SUPPORT 2,000 POUNDS OF LADING; HOWEVER, NOT LESS THAN TWO (2) BRACES WILL BE USED A GAINST EACH PALLET UNIT ACROSS THE WIDTH OF THE TRAILER.



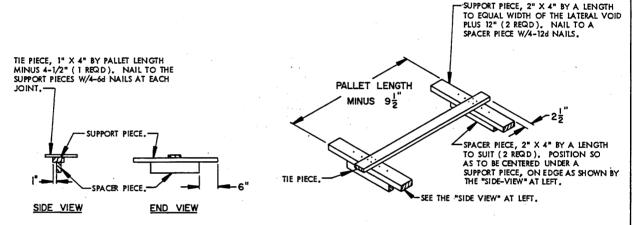
PICAL I-UNIT LOAD OF "OPEN-TYPE" OR BOXED-TYPE PALLET UNITS IN A CONVENTIONAL VAN TRAILER TYPICAL

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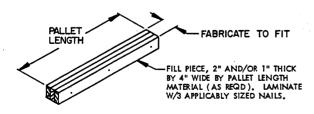


THIS ASSEMBLY IS DESIGNED FOR USE IN THE LOAD SHOWN ON PAGE 6. THE DEPICTED ASSEMBLY IS DESIGNED FOR THE BRACING OF THREE (3) PALLETS; THE ASSEMBLY MAY BE ADAPTED AS NECESSARY FOR BRACING AGAINST ONE OR TWO PALLET UNITS.



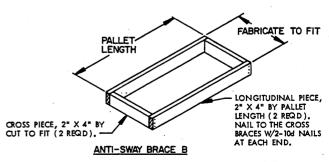
# TOP-OF-LOAD ANTI-SWAY BRACE

THIS ASSEMBLY IS DESIGNED FOR USE BETWEEN THE TOPS OF LATERALLY ADJACENT UNITS IN THE LOADS SHOWN ON



# ANTI-SWAY BRACE A

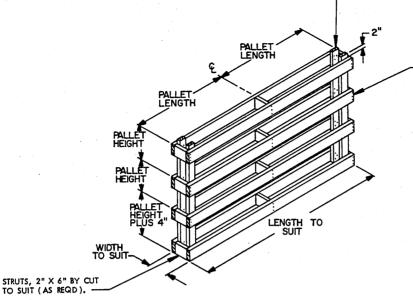
THIS ASSEMBLY IS DESIGNED FOR USE BETWEEN LATERALLY THIS ASSEMBLY IS DESIGNED FOR USE BETWEEN LATERALLY ADJACENT PALLET UNITS WHEN THE VOID BETWEEN THE UNITS IS LESS THAN EIGHT INCHES (8"). NOTE THAT AN ASSEMBLY NEED NOT BE CONSTRUCTED FOR A TIGHT FIT; UP TO ONE-HALF INCH (1/2") SPACE IS PERMITTED.



THIS ASSEMBLY IS DESIGNED FOR USE BETWEEN LATERALLY ADJACENT PALLET UNITS OR BETWEEN A PALLET UNIT AND THE TRAILER SIDEWALL WHEN THE VOID IS EIGHT INCHES (8") OR MORE, NOTE THAT AN ASSEMBLY NEED NOT BE CONSTRUCTED FOR A TIGHT FIT; UP TO ONE-HALF INCH (1/2") SPACE IS PERMITTED.

**DETAILS** 

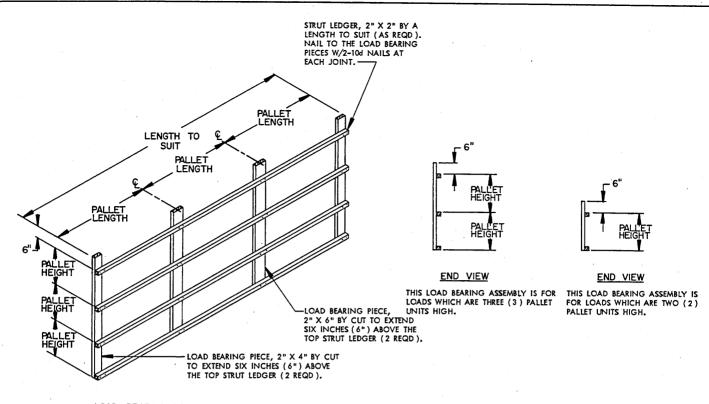
- VERTICAL PIECE, 2" X 4" BY A LENGTH TO SUIT (4 REQD). NAIL TO THE BEARING PIECES W/3-10d NAILS AT EACH JOINT.



BEARING PIECE, 2" X 6" BY A LENGTH TO SUIT (AS REQD). NAIL TO THE STRUTS W/3-TO4 NAILS AT EACH JOINT, NOTE THAT IF THE PALLET HEIGHT AND PALLET LENGTH DIMENSIONS ARE SUCH THAT THE SIZE OF A CRIB FILL ASSEMBLY IS COMPATIBLE WITH THE SIZE OF A PLYWOOD SHEET, ONE-HALF INCH (1/2") OR THICKER PLYWOOD MAY BE SUBSTITUTED FOR THE 2" X 6" BEARING PIECES.

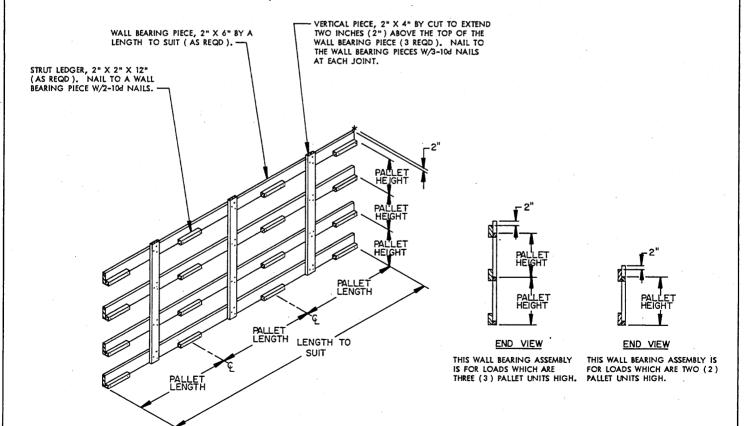
CRIB FILL

THIS ASSEMBLY IS DESIGNED FOR USE BETWEEN THE LATERALLY ADJACENT ROWS OF PALLET UNITS IN THE LOAD SHOWN ON PAGE 8, WHEN LOADED EITHER THREE OR FOUR PALLET UNITS HIGH. THE ASSEMBLY SHOWN IS FOR TWO PALLET UNITS LONG AND FOUR PALLETS HIGH BUT CAN BE ADAPTED FOR USE IN LOADS WHICH ARE THREE PALLETS HIGH AND/OR FOR ONE PALLET UNIT IN LENGTH, AS APPLICABLE, NOTE THAT AN A SSEMBLY NEED NOT BE CONSTRUCTED FOR A TIGHT FIT; UP TO ONE-HALF INCH (1/2") SPACE IS PERMITTED.



# LOAD BEARING ASSEMBLY

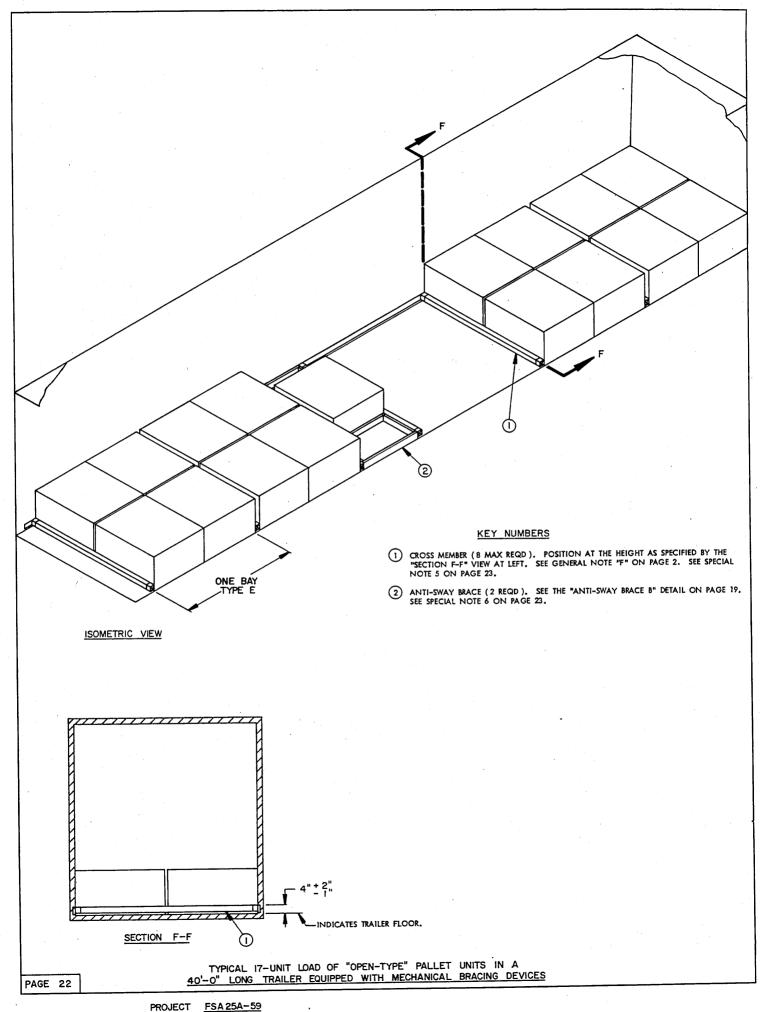
THIS ASSEMBLY IS DESIGNED FOR USE AGAINST THE ROW OF PALLET UNITS IN THE LOAD SHOWN ON PAGE 12. THE ASSEMBLY SHOWN IS FOR THREE PALLET UNITS LONG AND FOUR PALLETS HIGH. SEE THE "END VIEW" DETAILS AT RIGHT FOR GUIDANCE IN CONSTRUCTING ASSEMBLIES FOR TWO AND THREE-LAYER LOADS. THE LENGTH OF THE ASSEMBLIES MAY BE ADJUSTED FOR BRACING TWO PALLET UNITS IN LENGTH, IF REQUIRED.



# WALL BEARING ASSEMBLY

THIS ASSEMBLY IS DESIGNED FOR USE AGAINST THE WALL IN THE LOAD SHOWN ON PAGE 12. THE ASSEMBLY SHOWN IS FOR THREE PALLET UNITS LONG AND FOUR PALLETS HIGH. SEE THE "END VIEW" DETAILS AT RIGHT FOR GUIDANCE IN CONSTRUCTING ASSEMBLIES FOR TWO AND THREE-LAYER LOADS. THE LENGTH OF THE ASSEMBLIES MAY BE ADJUSTED FOR BRACING TWO PALLET UNITS IN LENGTH, IF REQUIRED.

DETAILS



		LOA	D CAPACITY A	ND PLANNII	NG CHART			
LINE NO.	CALIBER	DESIGNATION	UNIT WEIGHT IN POUNDS 👄	MAX UNITS PER BAY	BAY PATTERNS IN LOAD	MAX UNITS PER TRAILER	LOAD WEIGHT IN POUNDS	APPROX LOAD LENGTH
8	2.75 IN	WARHEAD WTU-1/B	1,880	5	5-E, 1-B	22	41,360	36'-7"
1	75MM	HE M309 A1	1,931	5	5-E, 1-A	21	40,551	36'-7"
2	75MM	HEAT-T, M310A1	1,931	5	5-E, 1-A	21	40,551	36'-7"
3	75MM	WP 311A1	2,056	4	5-E	20	41,120	33'-2"
4	75MM	HE M48	1,961	5	5-E, 1-A	21	41,181	36'-7"
5	. 75MM	SMOKE M64	2,090	4	5-E	20	41,800	33'-2"
6	75MM	HEAT M66	1,961	5	5-E, 1-A	21	41,181	36'-7"
9	76MM	WP-M361	1,858	5	5-E, 1-B	22	40,876	36'-7"
15	90MM	AP M82	2,888	3	7-B	14	40,432	24'-0"
16	90MM	HE M71	2,391	4	4-E, 1-A	17	40,647	29'-10"
17	90MM	WP M313	2,320	4	4-E, 1-B	18	41,760	29'-10"
12	105MM	TACTICAL CS XM632	3,225	3	6-B, 1-A	13	41,925	24'-0"
21	105MM	HE MI	2,425	4	4-E, 1-A	17	41,225	29'-10"
22	105MM	HEAT M67	2,325	4	4-E, 1-B	.18	41,850	29'-10"
23	105MM	HC, BE, M84, M84B1	2,225	4	4-E, 1-B	18	40,050	29'-10"
24	105MM	WP M60	2,475	4	4-E, 1-A	17	42,075	29'-10"
26	105MM	HE M323	2,375	4	4-E, 1-A	17	40,375	29'-10"
27	105MM	HEAT M324	1,795	5	5-E, 1-B	22 🕊	39,490	36'-7"
28	105MM	WP M325	2,435	4	4-E, 1-A	17	41,395	29'-10"
29	105MM	ILLUM XM314A2E1	3,225	. 3	6-B, 1-A	13	41,925	24'-0"
30	105MM	HE M442	1,895	5	5-E, 1-B	22	41,690	36'-7"
32	105MM	TP-T XM468	2,365	4	4-E, 1-A	17	40,205	29'-10"
33	120MM	HE M73	2,661	3	7-B, 1-A	15	39,915	27'-5"
34	120MM	HE M356	2,142	4	4-E, 1-B, 1-A	19	40,698	33'-4"
35	120MM	HE TISES	2,548	3	8-B	16	40,768	27'-5"
36	120MM	CHEM TIGET	2,234	4	4-E, 1-B	18	40,212	29'-10"
37	120MM	CHEM TIGES	2,484	4	4-E, 1-A	17	42,228	29'-10"
14	152MM	TP-T XM411E2	1,847	5.	5-E	20*	36,940	37'-6"

SEE SPECIAL NOTE 7.

→ EMPTY WEIGHTS ARE SHOWN, SEE GENERAL NOTE "O" ON PAGE 2.

### ( SPECIAL NOTES CONTINUED )

- LESS THAN FULL TRAILER LOADS (LTL) OF ANY OF THE ITEMS LISTED ABOVE CAN
  BE ATTAINED BY EMPLOYING COMBINATIONS OF THE APPLICABLE BAY TYPES A,
  B, AND E. SEE THE DETAILS ON PAGES 34 AND 35. <u>CAUTION</u>: THE MAXIMUM
  WEIGHT PER UNIT AS SPECIFIED FOR A BAY TYPE MUST NOT BE EXCEEDED.
- FOR FULL LOADS OF THE "OPEN-TYPE" PALLET UNITS OTHER THAN THOSE LISTED ABOVE, REFER TO THE PROCEDURES ON PAGES 24 AND 25.

LUMBER	LINEAR FEET	BOARD FEET	
2" X 4"	20	14	
NAILS	NO. REQD	POUNDS	
10d (3") ,	16	1/4	

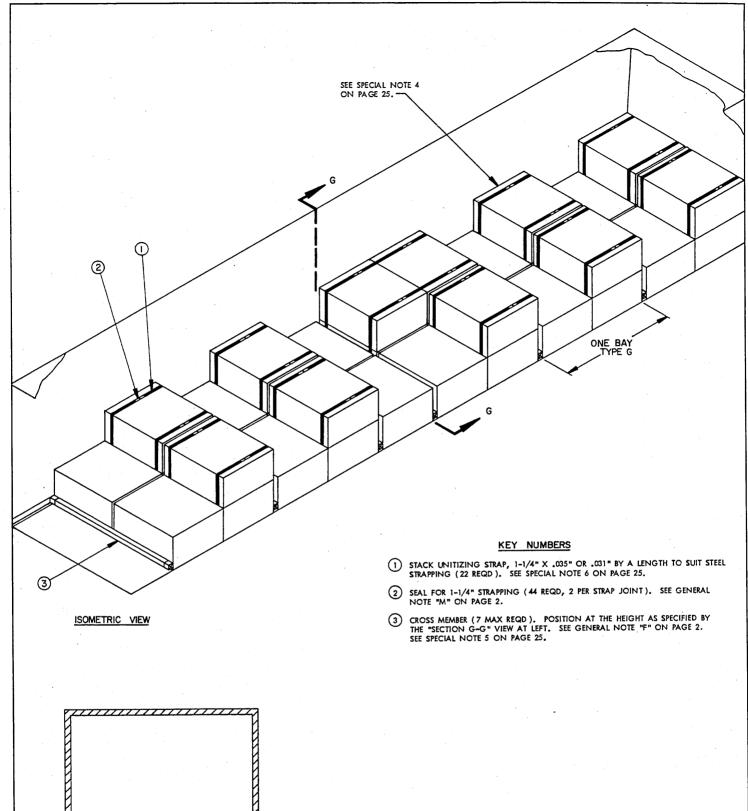
### SPECIAL NOTES:

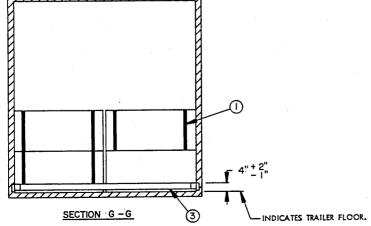
- A 40'-0" LONG BY 7'-6" WIDE (INSIDE WIDTH DIMENSION) VAN TRAILER EQUIPPED WITH MECHANICAL BRACING DEVICES IS SHOWN. TRAILERS OF OTHER DIMENSIONS CAN BE USED.
- THE TYPICAL LOAD SHOWN IS APPLICABLE FOR "OPEN-TYPE" PALLET UNITS AS
  DETAILED BY PICATINNY ARSENAL DRAWING NO. F-8837835, AND FOR THE ITEMS
  AS SPECIFIED IN THE "LOAD CAPACITY AND PLANNING CHART" ABOVE. THE
  PROCEDURES ARE APPLICABLE FOR LOADS WHICH CONSIST OF ONLY ONE LAYER.
  SEE SPECIAL NOTES 8 THRU 10.
- 3. A 17-UNIT LOAD OF "OPEN-TYPE" PALLET UNITS MEASURING 38-1/8" LONG BY 44-3/4" WIDE BY 22-9/16" HIGH AND WEIGHING 2,365 POUNDS IS SHOWN AS TYPICAL. THE ACTUAL QUANTITY THAT CAN BE SHIPPED WILL DEPEND UPON THE WEIGHT OF THE ITEM BEING LOADED AND THE CAPACITY OF THE TRAILER BEING USED. SEE THE "LOAD CAPACITY AND PLANNING CHART" ABOVE FOR GUIDANCE.
- IF THE LADING DOES NOT ALMOST COMPLETELY FILL THE LENGTH OF THE TRAILER, THE BAYS OF PALLET UNITS WILL BE LOCATED SO AS TO PROVIDE FOR PROPER WEIGHT DISTRIBUTION.
- 5. SIX (6) CROSS MEMBERS ARE REQUIRED FOR THE SHIPMENT OF THE DEPICTED 17-UNIT LOAD. THE ACTUAL NUMBER OF CROSS MEMBERS REQUIRED WILL VARY FROM FIVE TO EIGHT FOR SHIPMENT OF A FULL LOAD, DEPENDING UPON THE ITEM THAT IS BEING SHIPPED AND THE LOAD QUANTITY.
- 6. THE ANTI-SWAY BRACES, PIECES MARKED (2), ARE USED WITHIN THE DEPICTED LOAD IN ORDER TO OBTAIN AN UNEVEN LOAD QUANTITY AND WILL WILL NOT BE REQUIRED IF A LOAD CONSISTS OF AN EVEN NUMBER OF PALLET UNITS.
- 7. THE COMBINATION OF FIGURES AND LETTERS IN THE LOAD CAPACITY AND PLANNING CHART COLUMN HEADED "BAY PATTERNS IN LOAD" REPRESENTS THE NUMBER AND TYPE OF BAYS NEEDED TO OBTAIN A CERTAIN LOAD QUANTITY. FOR INSTANCE, "5-E, 1-B" MEANS THAT FIVE (5) TYPE B BAYS AND ONE (1) TYPE B BAY ARE REQUIRED TO OBTAIN A LOAD OF 22 PALLET UNITS. SEE THE APPLICABLE BAY TYPE DETAILS ON PAGES 34 AND 35. OTHER LOAD QUANTITIES, AND/OR ITEMS LIGHTER OR HEAVIER THAN THE 22-UNIT LOAD FOR LINE ITEM NUMBER 8, WILL REQUIRE A DIFFERENT COMBINATION OF BAY TYPES.
- 8. IF A STACK OF TWO PALLET UNITS OF 105MM HEAT M324, LINE NO. 27, IS NOT TALLER THAN 38", THE LOAD MAY BE INCREASED TO 23 UNITS BY SUBSTITUTING A BAY TYPE F FOR ONE OF THE FIVE TYPE E BAYS, OR BY SUBSTITUTING A BAY TYPE C FOR THE BAY TYPE B. LIKEWISE, IF A STACK OF TWO PALLETS OF 152MM TP-T XM411EZ, LINE NO. 14, IS NOT TALLER THAN 43", THE LOAD MAY BE INCREASED UP TO THREE PALLET UNITS. SUBSTITUTE ONE, TWO, OR THREE TYPE BAYS FOR A LIKE NUMBER OF THE TYPE E BAYS. SEE THE DETAILS ON PAGES 34 AND 35 FOR GUIDANCE.

( CONTINUED AT LEFT )

# LOAD AS SHOWN (TYPICAL)

TYPICAL 17-UNIT LOAD OF "OPEN-TYPE" PALLET UNITS IN A 40'-0" LONG TRAILER EQUIPPED WITH MECHANICAL BRACING DEVICES





TYPICAL 33-UNIT LOAD OF "OPEN-TYPE" PALLET UNITS IN A 40'-0" LONG TRAILER EQUIPPED WITH MECHANICAL BRACING DEVICES

		LO	AD CAPACITY	AND PLAN	NNING CHART			
LINE NO.	CALIBER	DESIGNATION	UNIT WEIGHT IN POUNDS 👄	MAX UNITS PER BAY	BAY PATTERNS IN LOAD	MAX UNITS PER TRAILER	LOAD WEIGHT IN POUNDS	APPROX LOAD LENGTH
13	2.75 IN	WARHEAD HE M151 PRACTICE XM232	1,205	8	4-K, 1-B, 1-A	35	42,175	36'-7"
7	75MM	HE M334	1,533	6	2-G, 1-F, 2-E, 1-B	27	41,391	36'-7"
10	76MM	WP-M312	1,740	5	5-E, 1-D	24	41,760	36'-7"
11	76MM	HE M42A1	1,733	5	5-E, 1-D	24	41,592	36'-7"
18	90MM	HE-T 91	1,526	6	2-G, 1-F, 2-E, 1-B	27	41,202	36'-7"
19	90MM	CHEM-T T92	1,580	6	2-G, 3-E, 1-B	26	41,080	36'-7"
20	105MM	WARHEAD, 105MM, XM547	1,360	7	5-H, 1-A	31	42,160	36'-7"
25	105MM	HEP M393A2, WP XM416	1,352	7	5-H, 1-A	31	41,912	36'-7"
38	105MM	HE XM400E3	1,255	7	1-J, 4-G, 1-B	33	41,415	36'-7"
38	105MM	HE M444, M444E1	1,295	7	5-G, 1-B	32	41,440	36'-7"
31	106MM	HEAT M344A1	1,185	8	4-K, 1-B, 1-A	35	41,475	36'-7"
40	152MM	HE XM657E2	1,340	7	1-J, 4-G	31	41,540	37'-6"
41	155MM	M549 MOTOR BODY ASSY	1,120	8	4-K, 1-F	37	41,440	38'-0"
39	165MM	HEP T237E4 (M123)	912	10	5-K, 1-B	42 🗱	38,304	36'-7"

SEE SPECIAL NOTE 7.

→ EMPTY WEIGHTS ARE SHOWN. SEE GENERAL NOTE "O" ON PAGE 2.

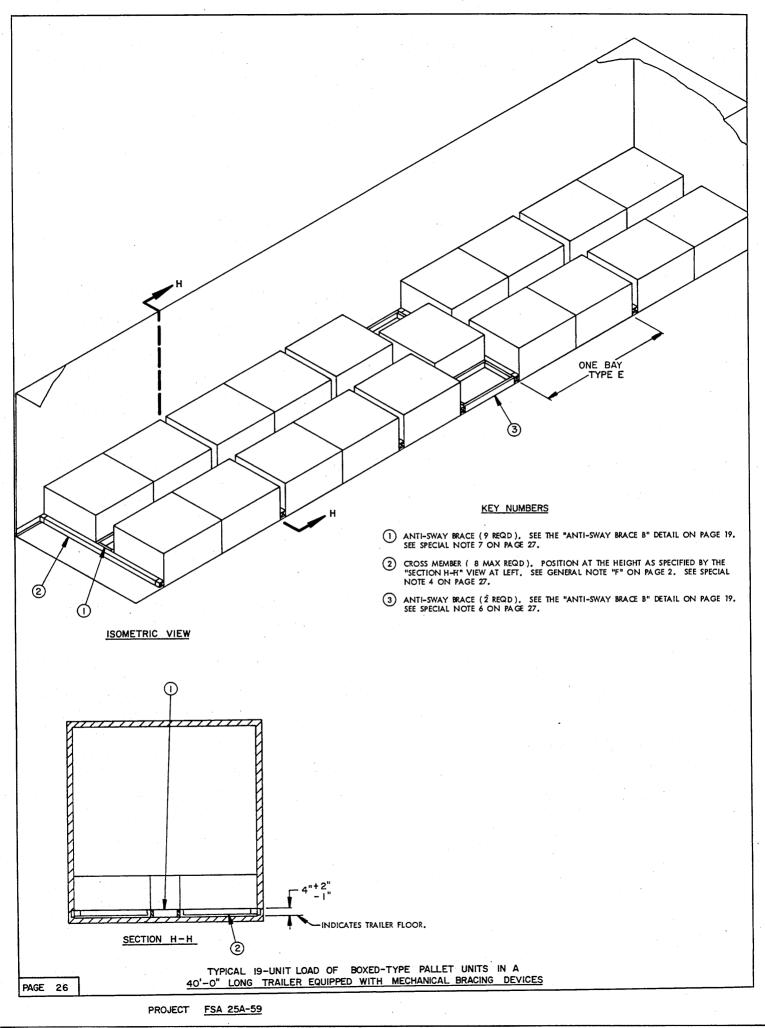
### SPECIAL NOTES:

- A 40'-0" LONG BY 7'-6" WIDE (INSIDE WIDTH DIMENSION) VAN TRAILER EQUIPPED WITH MECHANICAL BRACING DEVICES IS SHOWN. TRAILERS OF OTHER DIMENSIONS CAN BE USED.
- 2. THE TYPICAL LOAD SHOWN IS APPLICABLE FOR "OPEN-TYPE" PALLET UNITS AS DETAILED BY PICATINNY ARSENAL DRAWING NO. F-8837835, AND FOR THE ITEMS AS SPECIFIED IN THE "LOAD CAPACITY AND PLANNING CHART" ABOVE. THE PROCEDURES ARE APPLICABLE FOR LOADS WHICH CONTAIN ONE OR MORE BAYS HAVING PALLET UNITS IN THE SECOND LAYER. SEE SPECIAL NOTES 8 THRU 10.
- 3. A 33-UNIT LOAD OF "OPEN-TYPE PALLET UNITS MEASURING 38-1/8" LONG BY 44-3/4" WIDE BY 21" HIGH AND WEIGHING 1,255 POUNDS IS SHOWN AS TYPICAL. THE ACTUAL QUANTITY THAT CAN BE SHIPPED WILL DEPEND UPON THE WEIGHT OF THE ITEM BEING LOADED AND THE CAPACITY OF THE TRAILER BEING USED. SEE THE "LOAD CAPACITY AND PLANNING CHART" ABOVE FOR GUIDANCE.
- 4. THE BAYS IN THE DEPICTED LOAD WHICH CONTAIN SIX (6) PALLET UNITS ARE LOADED AND BRACED IN ACCORDANCE WITH THE "BAY TYPE G" DETAIL ON PAGE 35. THIS PROCEDURE IS ADEQUATE IF A STACK OF TWO PALLET UNITS IS NOT HIGHER THAN IT IS LONG. IF THE HEIGHT OF A PALLET STACK IS GREATER THAN THE PALLET LENGTH, THE SIX PALLET UNITS MUST BE LOADED AND BRACED IN ACCORDANCE WITH THE "BAY TYPE H" DETAIL ON PAGE 35. TO PROVIDE PROPER LATERAL WEIGHT DISTRIBUTION, IF THE LOAD CONTAINS MORE THAN ONE 6-UNIT BAY, APPROXIMATELY ONE-HALF OF THE BAYS SHOULD BE LOADED IN SUCH A MANNER THAT THE STACKED PORTION (5) WILL BE ALONG EACH SIDE OF THE TRAILER.
- 5. SIX (6) CROSS MEMBERS ARE REQUIRED FOR THE SHIPMENT OF THE DEPICTED 33-UNIT LOAD. THE ACTUAL NUMBER OF CROSS MEMBERS REQUIRED WILL VARY FROM FIVE TO SEVEN FOR SHIPMENT OF A FULL LOAD, DEPENDING UPON THE ITEM THAT IS BEING SHIPPED AND THE LOAD QUANTITY.
- 6. IF THE CAPACITY OF THE MATERIAL HANDLING EQUIPMENT PERMITS, THE STACKED PALLET UNITS SHOULD BE UNITIZED PRIOR TO PLACEMENT IN THE TRAILER.
- 7. THE COMBINATION OF FIGURES AND LETTERS IN THE LOAD CAPACITY AND PLANNING CHART COLUMN HEADED "BAY PATTERNS IN LOAD" REFRESENTS THE NUMBER AND TYPE OF BAYS NEEDED TO OBTAIN A CERTAIN LOAD QUANTITY. FOR INSTANCE, "4-K, 1-B, 1-A" MEANS THAT FOUR (4) TYPE K BAYS AND ONE (1) EACH OF TYPE B AND TYPE A BAYS ARE REQUIRED TO OBTAIN A LOAD OF 35 PALLET UNITS. SEE THE APPLICABLE BAY TYPE DETAILS ON PAGES 34 THRU 36. OTHER LOAD QUANTITIES, AND/OR ITEMS LIGHTER OR HEAVIER THAN THE 35-UNIT LOAD FOR LINE ITEM NUMBER 13, WILL REQUIRE A DIFFERENT COMBINATION OF BAY PATTERNS.
- 8. IF THE HEIGHT OF A STACK OF TWO PALLET UNITS OF 165MM HEP T237E4 (M123), LINE NO. 39, IS LESS THAN THE LENGTH OF THE PALLET UNIT, THE LOAD MAY BE INCREASED TO 43 OR 44 UNITS BY SUBSTITUTING A BAY TYPE C, OR A BAY TYPE D, FOR THE TYPE B BAY. SEE THE DETAILS ON PAGE 34 FOR GUIDANCE.
- LESS THAN FULL TRAILER LOADS (LTL.) OF ANY OF THE ITEMS LISTED ABOVE CAN BE ATTAINED BY EMPLOYING COMBINATIONS OF THE APPLICABLE BAY TYPES A THRU K. SEE THE DETAILS ON PAGES 34 THRU 36. <u>CAUTION</u>; THE MAXIMUM WEIGHT PER UNIT AS SPECIFIED FOR A BAY TYPE MUST NOT BE EXCEEDED.
- FOR FULL LOADS OF THE "OPEN-TYPE" PALLET UNITS OTHER THAN THOSE LISTED ABOVE, REFER TO THE PROCEDURES ON PAGES 22 AND 23.

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LOAD AS SHOWN (TYPICAL)

TYPICAL 33-UNIT LOAD OF "OPEN-TYPE" PALLET UNITS IN A 40'-0" LONG TRAILER EQUIPPED WITH MECHANICAL BRACING DEVICES



			LOAD CAPAC	ITY AND P	LANNING CHA	RT		
LÌNE NO.	CALIBER	DESIGNATION	UNIT WEIGHT IN POUNDS	MAX UNITS PER BAY		MAX UNITS PER TRAILER	LOAD WEIGHT IN POUNDS	APPROXIMATE LOAD LENGTH
24	2.75 IN	WARHEAD HE XM229	1,961	5	5-E	21	41,181	38'-7"
8	90MM	CANNISTER M377	2,144	4	4-E, 1-B, 1-A	19	40,736	37'-5"
12	90MM	TP-T M353E1	2,173	4	4-E, 1-B, 1-A	19	41,287	37'-5"
13	90MM	AP-T M318A1C	2,173	4	4-E, 1-B, 1-A	19	21,287	37'-5"
17	90MM	CANNISTER M336	2,117	4	5-E	20	42,340	36'-11"
25*	105MM	TP-T M489	2,060	. 4	4-E, 1-B	18	37,080	38'-8"
21	120MM	AP-T M358EI ORAP-TM359	2,821	3	7-B, 1-A	15	42,315	35'-4"

SEE SPECIAL NOTE 5.

→ EMPTY WEIGHTS ARE SHOWN. SEE
GENERAL NOTE "O" ON PAGE 2.

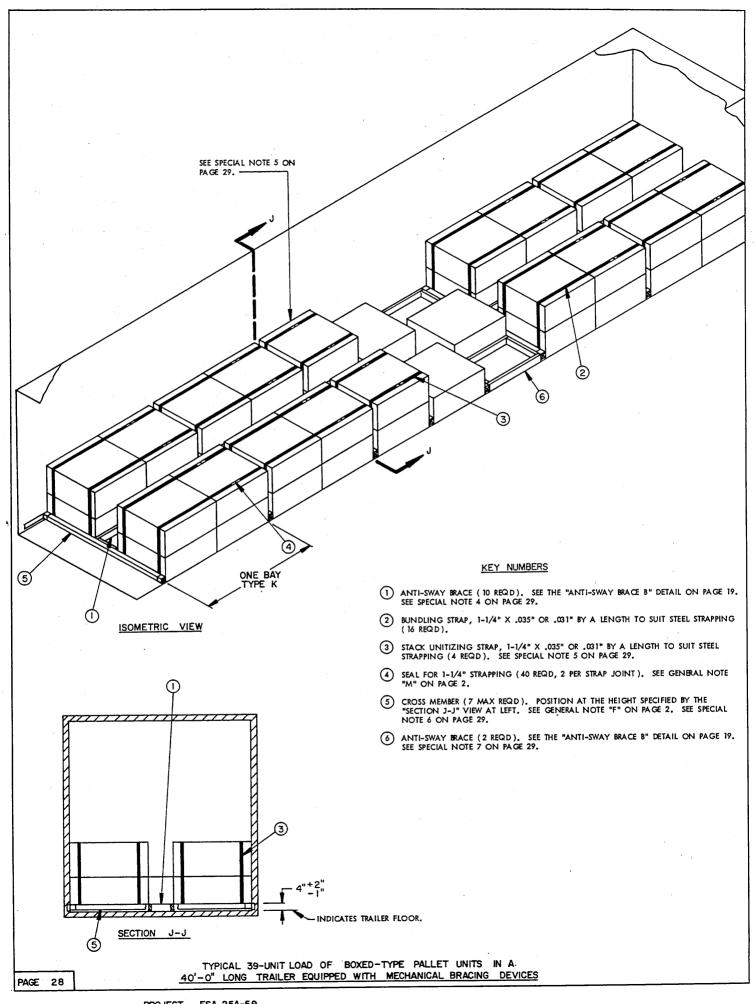
### SPECIAL NOTES:

- A 40'-0" LONG BY 7'-6" WIDE (INSIDE WIDTH DIMENSION) VAN TRAILER EQUIPPED WITH MECHANICAL BRACING DEVICES IS SHOWN. TRAILERS OF OTHER DIMENSIONS CAN BE USED.
- THE TYPICAL LOAD SHOWN IS APPLICABLE FOR BOXED-TYPE PALLET UNITS AS
  DETAILED BY ORDNANCE CORPS DRAWING NO. F-7548604, AND FOR THE ITEMS
  AS SPECIFIED IN THE "LOAD CAPACITY AND PLANNING CHART" ABOVE. THE
  PROCEDURES ARE APPLICABLE FOR LOADS WHICH CONSIST OF ONLY ONE LAYER.
  SEE SPECIAL NOTES 8 AND 9.
- 3. A 19-UNIT LOAD OF BOXED-TYPE PALLET UNITS MEASURING 44-1/8" LONG BY 37-1/8" WIDE BY 20-3/4" HIGH AND WEIGHING 2,173 POUNDS IS SHOWN AS TYPICAL. THE ACTUAL QUANTITY THAT CAN BE SHIPPED WILL DEPEND UPON THE SIZE AND WEIGHT OF THE ITEM BEING LOADED AND THE CAPACITY OF THE TRAILER BEING USED. SEE THE "LOAD CAPACITY AND PLANNING CHART" ABOVE FOR GUIDANCE.
- 4. SIX (6) CROSS MEMBERS ARE REQUIRED FOR THE SHIPMENT OF THE DEPICTED 19-UNIT LOAD. THE ACTUAL NUMBER OF CROSS MEMBERS REQUIRED WILL VARY FROM FIVE TO EIGHT FOR SHIPMENT OF A FULL LOAD, DEPENDING UPON THE ITEM THAT IS BEING SHIPPED AND THE LOAD QUANTITY.
- 5. THE COMBINATION OF FIGURES AND LETTERS IN THE LOAD CAPACITY AND PLANNING CHART COLUMN HEADED "BAY PATTERNS IN LOAD" REPRESENTS THE NUMBER AND TYPE OF BAY'S NEEDED TO OBTAIN A CERTAIN LOAD QUANTITY. FOR INSTANCE, "7-B, 1-A" MEANS THAT SEVEN (7) TYPE B BAY'S AND ONE (1) TYPE A BAY ARE REQUIRED TO OBTAIN A LOAD OF 15 PALLET UNITS. SEE THE APPLICABLE BAY TYPE DETAILS ON PAGES 34 AND 35. OTHER LOAD QUANTITIES, AND/OR ITEMS LIGHTER OR HEAVIER THAN THE 15-UNIT LOAD FOR LINE ITEM NO.21, WILL REQUIRE A DIFFERENT COMBINATION OF BAY PATTERNS.
- 6. THE ANTI-SWAY BRACES, PIECES MARKED (3), ARE USED WITHIN THE DEPICTED LOAD IN ORDER TO OBTAIN AN UNEVEN QUANTITY AND WILL NOT BE REQUIRED IF A LOAD CONSISTS OF AN EVEN NUMBER OF PALLET UNITS.
- 7. ANTI-SWAY BRACES WILL NOT BE REQUIRED BETWEEN LATERALLY ADJACENT BOXED-TYPE PALLET UNITS OF 105MM TP-T M489, LINE ITEM NO. 25, WHEN LOADING IN A NINETY INCH (90") WIDE TRAILER. SEE THE "ANTI-SWAY BRACE A" DETAIL ON PAGE 19 FOR THE ASSEMBLY TO BE USED IN TRAILERS WIDER THAN 90".
- 8. LESS THAN FULL TRAILER LOADS (LTL) OF ANY OF THE ITEMS LISTED ABOVE CAN BE ATTAINED BY EMPLOYING COMBINATIONS OF THE APPLICABLE BAY TYPES A, B, AND E. SEE THE DETAILS ON PAGES 34 AND 35. <u>CAUTION</u>: THE MAXIMUM WEIGHT PER UNIT AS SPECIFIED FOR A BAY TYPE MUST NOT BE EXCEEDED.
- FOR FULL LOADS OF THE BOXED-TYPE PALLET UNITS OTHER THAN THOSE LISTED
  ABOVE, REFER TO THE "BOXED-TYPE PALLET UNIT INDEX" ON PAGE 38 AND TO
  THE APPLICABLE PROCEDURES ON PAGES 28 THRU 33.

LUMBER	LINEAR FEET	BOARD FEET
2" X 4"	111	74
NAILS	NO. REQD	POUNDS
10d (3")	88	1-1/2

LOAD AS SHOWN (TYPICAL)

TYPICAL 19-UNIT LOAD OF BOXED-TYPE PALLET UNITS IN A 40'-0" LONG TRAILER EQUIPPED WITH MECHANICAL BRACING DEVICES



			LOAD CAPAC	ITY AND F	LANNING CHA	RT		
LINE NO.	CALIBER	DESIGNATION	UNIT WEIGHT	MAX UNITS PER BAY	BAY PATTERNS IN LOAD	MAX UNITS PER TRAILER	LOAD WEIGHT IN POUNDS	APPROXIMATE LOAD LENGTH
1 2 5	75MM 75MM 76MM 76MM	AP-T M338A1 HEP-T15QE29 OR T165E29 HVAP-T M93A1 AP-T M339E1 OR TP-T M340A1E1	2,042 852 1,074	4 11 9 6	4-E, 1-D 4-K, 1-D 4-K, 1-D, 1-B, 1-A 3-G, 1-F, 1-E 2-G, 3-E, 1-B	20 36 ** 39 27 26	40,840 30,672 41,886 41,418	38'-1" 38'-2" 37'-5" 35'-2"
7 9 10 26 11	76MM 76MM 76MM 81MM 90MM	CANNISTER M363 HVAP-T T66E3 OR T66E5 HEAT-T, M496 WP M375E2 HVAP-TM332A1E1 OR HVAP-TM333A1E1	1,585 850 900 880 1,202	6 11 11 11 8	5-K, 1-D 5-K, 1-D 5-K, 1-D 4-K, 1-B, 1-A	44 # 44 # 44 # 35	37,400 39,600 38,720 42,070	38'-0" 38'-4" 38'-8" 38'-4"
4 4 18 20	105MM 105MM 105MM 105MM 120MM	APERS-T M380 APERS-T XM603E1 HEAT M456A1 OR M456A1E1 APDS-T M392A3 HEAT M469	1,720 1,894 1,209 1,080 1,225	5 5 8 9 8	2-E, 4-D 2-E, 3-D, 1-B 4-K, 1-B, 1-A 4-K, 1-D 4-K, 1-B	24 22 35 36 <del>*</del> 34	41,280 41,668 42,315 38,880 41,650	36'-7" 36'-7" 35'-10" 36'-5" 35'-11"

- SEE SPECIAL NOTE
- \* SEE SPECIAL NOTE
- ⊕ EMPTY WEIGHTS ARE SHOWN. SEE GENERAL NOTE "O" ON PAGE 2.
- SEE SPECIAL NOTE

# (SPECIAL NOTES CONTINUED)

- 11. THE "MAX UNITS PER TRAILER" SPECIFIED FOR THE ITEMS DESIGNATED BY LINE NOS. 2, 9, 10, 20, AND 26 IS THE LARGEST QUANTITY OF PALLET UNITS THAT CAN BE LOADED BY USING THE DEPICTED PROCEDURES. INCREASED QUANTITIES OF THESE ITEMS CAN BE ATTAINED BY POSITIONING APPROXIMATELY ONE-HALF OF THE INCREASED QUANTITY OF UNITS IN TWO ROWS AND IN TWO OR THREE OF THE INCREASED QUANTITY OF UNITS IN TWO ROWS AND IN TWO OR THREE LAYERS IN THE FRONT HALF OF THE TRAILER. POSITION A "REAR GATE B", AS DETAILED ON PAGE 37, AGAINST THESE LOADED UNITS AND INSTALL CROSS MEMBERS AT THE 4", 16", 28", AND 38" HEIGHTS. POSITION A "REAR GATE B" AGAINST THE INSTALLED CROSS MEMBERS AND CONTINUE LOADING THE REMAINDER OF THE PALLET UNITS IN TWO OR THREE LAYERS, AS APPLICABLE. POSITION A "GATE B" AT THE REAR OF THE COMPETED LOAD AND INSTALL CROSS MEMBERS AT THE AFOREMENTIONED HEIGHTS. FORTY-NINE PALLET UNITS OF ITEMS DESIGNATED BY LINE NOS. 2 AND 9, FORTY-SIX UNITS OF LINE NO. 10, THRTY-NINE UNITS OF LINE NO. 39, AND FORTY-EIGHT UNITS OF LINE NO. 26 CAN BE LOADED IN THIS MANNER. 26 CAN BE LOADED IN THIS MANNER.
- 12. LESS THAN FULL TRAILER LOADS (LTL.) OF ANY OF THE ITEMS LISTED ABOVE CAN BE ATTAINED BY EMPLOYING COMBINATIONS OF THE APPLICABLE BAY TYPES A THRU K. SEE THE DETAILS ON PAGES 34, 35, AND 36. <u>CAUTION</u>: THE MAXIMUM WEIGHT PER UNIT AS SPECIFIED FOR A BAY TYPE MUST NOT BE EXCEEDED.
- 13. FOR FULL LOADS OF THE BOXED-TYPE PALLET UNITS OTHER THAN THOSE LISTED ABOVE, REFER TO THE "BOXED-TYPE PALLET UNIT INDEX" ON PAGE 38 AND TO THE APPLICABLE PROCEDURES ON PAGES 26 AND 27, AND PAGES 30 THRU 33.

LUMBER	LINEAR FEET	BOARD FEET
2" X 4"	109	73
NAILS	NO. REQD	POUNDS
10d (3")	96	1-3/4
STEEL STRAPPING 1	-1/4" X .035" OR .031" -	- 374' REQD 125 LE

### SPECIAL NOTES:

- A 40'-0" LONG BY 7'-6" WIDE (INSIDE WIDTH DIMENSION) VAN TRAİLER EQUIPPED WITH MECHANICAL BRACING DEVICES IS SHOWN. TRAILERS OF OTHER DIMENSIONS CAN BE USED.
- THE TYPICAL LOAD SHOWN IS APPLICABLE FOR BOXED-TYPE PALLET UNITS AS
  DETAILED BY ORDNANCE CORPS DRAWING NO. F-7548604, AND FOR THE ITMS
  AS SPECIFIED IN THE "LOAD CAPACITY AND PLANNING CHART" ABOVE. THE
  PROCEDURES ARE APPLICABLE FOR LOADS WHICH CONTAIN ONE OR MORE BAYS HAVING PALLET UNITS IN THE SECOND LAYER. SEE SPECIAL NOTES 9 THRU 13.
- 3. A 39-UNIT LOAD OF BOXED-TYPE PALLET UNITS MEASURING 38-3/4" LONG BY A 39-UNIT LOAD OF BOXED-TYPE PALLET UNITS MEASURING 39-3/4" LONG BY 36-5/8" WIDE BY 17-5/8" HIGH AND WEIGHING 1,074 POUNDS IS SHOWN AS TYPICAL. THE ACTUAL QUANTITY THAT CAN BE SHIPPED WILL DEPEND UPON THE SIZE AND WEIGHT OF THE ITEM BEING LOADED AND THE CAPACITY OF THE TRAILER BEING USED. SEE THE "LOAD CAPACITY AND PLANNING CHART" ABOVE FOR
- 4. ANTI-SWAY BRACES, PIECES MARKED (), ARE REQUIRED BETWEEN ALL LATERALLY ADJACENT FLOOR-LINE BOXED-TYPE PALLET UNITS EXCEPT WHEN LOADING THE ITEMS DESIGNATED BY LINE NO. 18 AND 20.
- 5. THE BAY IN THE DEPICTED LOAD WHICH CONTAINS FOUR (4) PALLET UNITS IS LOADED AND BRACED IN ACCORDANCE WITH THE "BAY TYPE D" DETAIL ON PAGE 34. THIS PROCEDURE IS ADEQUATE ONLY IF A STACK OF TWO PALLET UNITS IS NOT HIGHER THAN IT IS LONG.
- SEVEN (7) CROSS MEMBERS ARE REQUIRED FOR THE SHIPMENT OF THE DEPICTED 39-UNIT LOAD. THE ACTUAL NUMBER OF CROSS MEMBERS REQUIRED WILL VARY FROM FIVE TO SEVEN FOR SHIPMENT OF A FULL LOAD, DEPENDING UPON THE ITEM THAT IS BEING SHIPPED AND THE LOAD QUANTITY.
- THE ANTI-SWAY BRACES, PIECES MARKED (6), ARE USED WITHIN THE DEPICTED LOAD IN ORDER TO OBTAIN AN UNEVEN LOAD QUANTITY AND WILL NOT BE REQUIRED IF A LOAD CONSISTS OF AN EVEN NUMBER OF PALLET UNITS.
- THE COMBINATION OF FIGURES AND LETTERS IN THE LOAD CAPACITY AND PLANNING CHART COLUMN HEADED "BAY PATTERNS IN LOAD" REPRESENTS THE NUMBER AND TYPE OF BAYS NEEDED TO OBTAIN A CERTAIN LOAD QUANTITY. FOR INSTANCE, "4-E, 1-D" MEANS THAT FOUR (4) TYPE E BAYS AND ONE (1) TYPE DBAY ARE REQUIRED TO OBTAIN A LOAD OF 20 PALLET UNITS. SEE THE APPLICABLE BAY TYPE DETAILS ON PAGES 34 THRU 36. OTHER LOAD QUANTITIES, AND/OR ITEMS LIGHTER OR HEAVIER THAN THE 20-UNIT LOAD FOR LINE ITEM NO. 1, WILL PROVINGE A DISERPENT COMBINATION OF BAY PATTERNS REQUIRE A DIFFERENT COMBINATION OF BAY PATTERNS.
- THE LOADS FOR THE ITEMS DESIGNATED BY LINE NOS. 1, 4, 6, AND 7, WHICH HAVE ONE OR MORE BAYS LOADED IN ACCORDANCE WITH THE "BAY TYPE E" GUIDANCE SO AS TO DISTRIBUTE THE LADING WEIGHT OVER MOST OF THE LENGTH OF 40'-0" LONG TRAILERS, CAN BE LOADED WITH THE SAME QUANTITY OF UNITS IN A SHORTER LENGTH SPACE. THIS CAN BE ACCOMPLISHED BY SUBSTITUTING A "BAY TYPE D" FOR EACH "BAY TYPE E". SEE THE "BAY TYPE D" DETAIL ON PAGE 34 FOR GUIDANCE, POSITION THE BAYS WITHIN THE LENGTH OF THE TRAILER SO TO PROVIDE FOR PROPER WEIGHT DISTRIBUTION.
- 10. FOR THE LOADING OF THE ITEM DESIGNATED BY LINE NO. 20, THESE PROCEDURES ON PAGES 28 AND 29 ARE APPLICABLE ONLY FOR THE LOADING OF 36 PALLET UNITS IN TRAILERS WHICH ARE 91" OR GREATER IN WIDTH. FOR TRAILERS LESS THAN 91" WIDE, THE PROCEDURES SHOWN ON PAGES 32 AND 33 MUST BE USED.

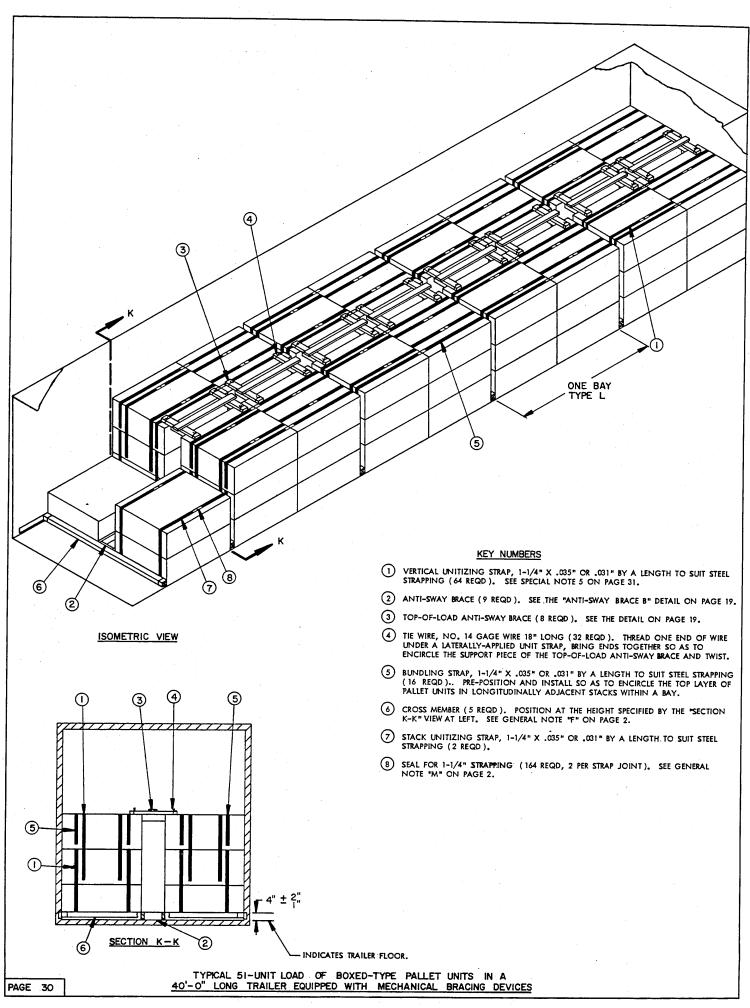
( CONTINUED AT LEFT )

LOAD AS SHOWN (TYPICAL)

WEIGHT (APPROX) QUANTITY ITEM --- 39 ----- 41,886 LBS PALLET UNIT ----DUNNAGE --

TOTAL WEIGHT ----- 42,161 LBS

TYPICAL 39-UNIT LOAD OF BOXED-TYPE PALLET UNITS IN A 40'-0" LONG TRAILER EQUIPPED WITH MECHANICAL BRACING DEVICES



# SPECIAL NOTES:

- 1. A 40'-0" LONG BY 7'-6" WIDE (INSIDE WIDTH DIMENSION ) VAN TRAILER A 40-0" LONG BT 7-6" WIDE (11731DE WIDTH DIMENSION) TRAILERS OF OTHER EQUIPPED WITH MECHANICAL BRACING DEVICES IS SHOWN. TRAILERS OF OTHER DIMENSIONS CAN BE USED.
- 2. THE TYPICAL LOAD SHOWN IS APPLICABLE FOR BOXED-TYPE PALLET UNITS, LINE ITEMS NO. 3 AND 23, AS DETAILED BY ORDNANCE CORPS DRAWING NO. F-7548604. THE PROCEDURES ARE APPLICABLE FOR LOADS WHICH CONTAIN ONE OR MORE BAYS HAVING PALLET UNITS STACKED THREE (3) HIGH.
- 3. A 51-UNIT LOAD OF BOXED-TYPE PALLET UNITS, LINE NO. 3, MEASURING 48-7/8"
  LONG BY 39-1/8" WIDE BY 18" HIGH AND WEIGHING 822 POUNDS IS SHOWN AS
  TYPICAL. THE PROCEDURES ARE ALSO APPLICA BLE FOR SHIPMENTS OF PALLET UNITS,
  TYPICAL OF THE PROCEDURES ARE ALSO APPLICA BLE FOR SHIPMENTS OF PALLET UNITS,
  TO PALLET UNITS CAN BE LOADED, FIVE BAYS OF 12 PALLET
  UNITS LOADED IN ACCORDANCE WITH THE "BAY TYPE L" DETAIL SHOWN ON
  PAGE 36 AND AS SHOWN IN THE DEPICTED LOAD. SEE GENERAL NOTE "O" ON
  PAGE 7.
- PAGE 2.

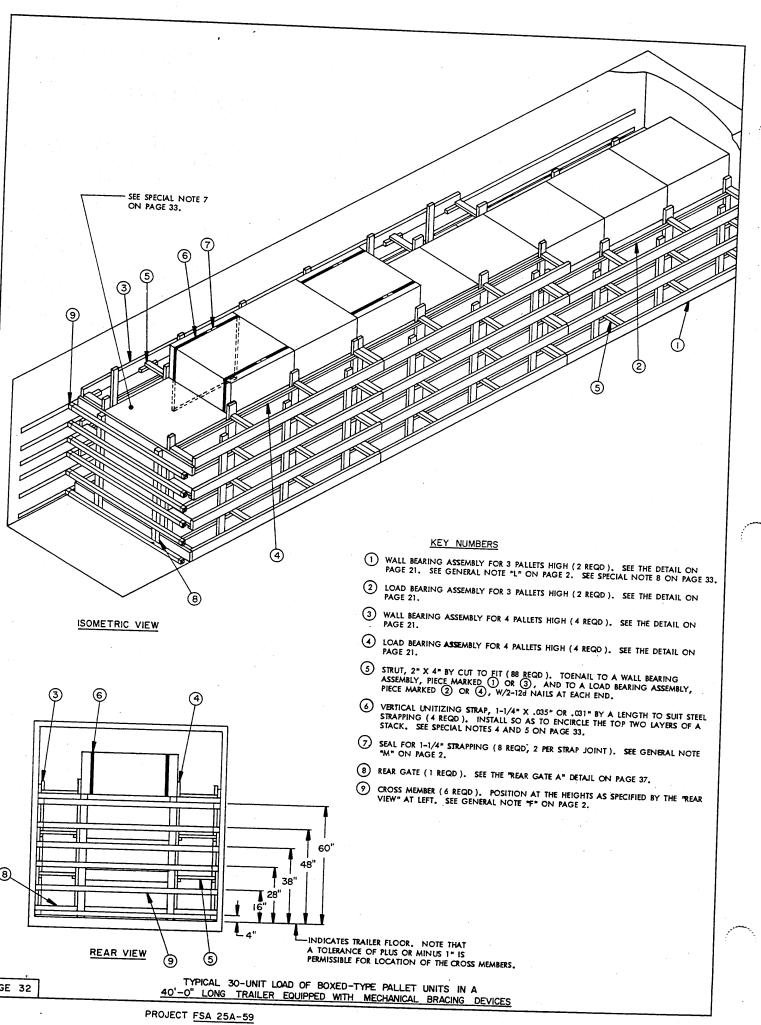
  THE BAYS IN THE DEPICTED LOAD WHICH CONTAIN PALLET UNITS STACKED THREE HIGH ARE LOADED AND BRACED IN ACCORDANCE WITH THE "BAY TYPE L" DETAIL ON PAGE 36. THIS PROCEDURE IS ADEQUATE ONLY IF A STACK OF THREE PALLET UNITS IS NOT HIGHER THAN THE LENGTH OF TWO PALLET UNITS.
- IF THE CAPACITY OF THE MATERIAL HANDLING EQUIPMENT PERMITS, PALLET STACKS OF TWO OR THREE PALLET UNITS, AS APPLICABLE, SHOULD BE UNITIZED PRIOR TO PLACEMENT IN THE TRAILER.
- LESS THAN FULL TRAILER LOADS (LTL) OF LINE ITEMS NO. 3 AND 23 CAN BE ATTAINED BY EMPLOYING COMBINATIONS OF THE APPLICABLE BAY TYPES A THRU K. SEE THE DETAILS ON PAGES 34 THRU 36 FOR GUIDANCE.
- 7. FOR FULL LOADS OF THE BOXED-TYPE PALLET UNITS OTHER THAN LINE ITEMS NO. 3 AND 23, REFER TO THE "BOXED-TYPE PALLET UNIT INDEX" ON PAGE 38 AND TO THE APPLICABLE PROCEDURES ON PAGES 26 THRU 29 AND PAGES 32 AND 25 THRU 29 AND PAGES 32

BII	LL OF MATERIAL	
LUMBER	LINEAR FEET	BOARD FEET
1" X 4" 2" X 4"	30 119	10 80
NAILS	NO. REQD	POUNDS
6d (2") 10d (3") 12d (3-1/4")	64 72 64	1/2 1-1/4 1-1/4
	-1/4" X .035" OR .031" APPING	

# LOAD AS SHOWN (TYPICAL)

WEIGHT (APPROX) QUANTITY ITEM -- 41,922 LBS PALLET UNIT ----- 51 -----DUNNAGE ----TOTAL WEIGHT ---- 42,299 LBS

TYPICAL 51-UNIT LOAD OF BOXED-TYPE PALLET UNITS IN A 40'-0" LONG TRAILER EQUIPPED WITH MECHANICAL BRACING DEVICES



		LOAD -	CAPACITY CHART			
. LINE	CALIBER	DESIGNATION	UNIT WEIGHT IN POUNDS	MAX UNITS PER TRAILER	LOAD WEIGHT IN POUNDS	APPROXIMATE LOAD LENGTH
14 15 16 20 <b>II</b>	90MM 105MM 105MM 105MM 106MM	HEAT M431E1 HEP-T M345 OR M345B1 HEAT M341 APDS-T M392A3 HEP-T M346A1	1,320 964 1,197 1,080 964	30 36 * 27 36 * 36 *	39,600 34,704 32,319 38,880 34,704	36'-2" 37'-11" 37'-11" 35'-10" 37'-11"

SEE SPECIAL NOTE 6.

# SPECIAL NOTES:

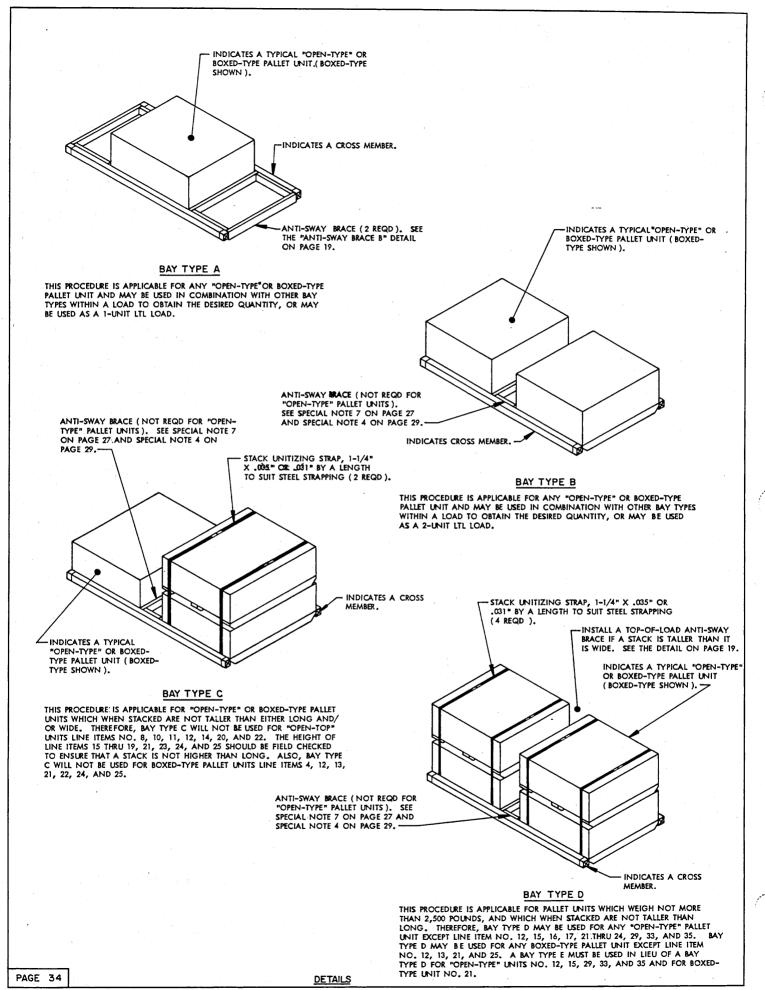
- A 40'-0" LONG BY 7'-6" WIDE (INSIDE WIDTH DIMENSION) VAN TRAILER EQUIPPED WITH MECHANICAL BRACING DEVICES IS SHOWN. TRAILERS OF OTHER DIMENSIONS CAN BE USED.
- THE TYPICAL LOAD SHOWN IS APPLICABLE FOR BOXED-TYPE PALLET UNITS AS
  DETAILED BY ORDNANCE CORPS DRAWING NO. F-7548604, AND FOR THE ITEMS
  AS SPECIFIED IN THE "LOAD CAPACITY CHART" ABOVE. THE PROCEDURES ARE
  APPLICABLE FOR PALLET UNITS WHICH ARE TOO WIDE TO BE LOADED TWO (2)
  UNITS WIDE IN A TRAILER.
- 3. A 32-UNIT LOAD OF BOXED-TYPE PALLET UNITS MEASURING 47-1/8" LONG BY 47-1/8" WIDE BY 20-7/8" HIGH AND WEIGHING 1,320 POUNDS IS SHOWN AS TYPICAL. THE ACTUAL QUANTITY THAT CAN BE SHIPPED WILL DEPEND UPON THE LENGTH, HEIGHT, AND WEIGHT OF THE ITEM BEING LOADED AND THE CAPACITY OF THE TRAILER BEING USED. SEE THE "LOAD CAPACITY CHART" ABOVE FOR GUIDANCE.
- 4. VERTICAL UNITIZING STRAPS, PIECES MARKED (6), WILL BE APPLIED AROUND THE TOP TWO (2) LAYERS OF THE STACK AT EACH END OF THE UPPER LAYER OF PALLET UNITS. IF THE UPPER LAYER IS DIVIDED (NOT CONTINUOUS), UNITIZING STRAPS WILL BE REQUIRED AT THREE (3) LOCATIONS. NOTE THAT THE UNITIZING STRAPS ARE NOT REQUIRED FOR THE STACK WHICH CONTACTS THE TRAILER FRONT WALL.
- 5. IF THE CAPACITY OF THE MATERIAL HANDLING EQUIPMENT PERMITS, THE STRAPPED PALLET UNITS SHOULD BE UNITIZED PRIOR TO PLACEMENT IN THE TRAILER.
- 6. FOR THE LOADING OF THE ITEM DESIGNATED BY LINE NO. 20, THE PROCEDURES ON PAGES 32 AND 33 ARE APPLICABLE FOR THE LOADING OF 36 PALLET UNITS IN TRAILERS WHICH ARE LESS THAN 91" WIDE. FOR TRAILERS WHICH ARE 91" OR GREATER IN WIDTH, THE PROCEDURES SHOWN ON PAGES 28 AND 29 SHOULD BE USED.
- 7. LINE ITEMS NO. 14 AND 16 SHOULD NOT BE LOADED MORE THAN THREE (3) PALLET UNITS HIGH AT THE REAR OF THE LOAD ADJACENT TO THE CROSS MEMBERS. LINE ITEM NO. 20 MAY BE LOADED FOUR (4) UNITS HIGH AT THE REAR OF THE LOAD PROVIDED THE TOP TWO LAYERS OF THAT STACK ARE UNITIZED WIFH THE VERTICAL UNITIZING STRAPS, PIECES MARKED (6). A FULL LOAD (36 UNITS) OF LINE ITEMS NO. 15, 20, AND 19 MAY BE SHIPPED PROVIDED THE TOP TWO (2) LAYERS OF THE REARMOST TWO (2) STACKS ARE ENCIRCLED WITH TWO (2) PIECES OF STEEL STRAPPING. SEE THE BUNDLING STRAPS, PIECES MARKED (4) ON PAGE 4 FOR GUIDANCE.
- 8. LESS THAN FULL TRAILER LOADS (LTL.) OF ANY OF THE ITEMS LISTED ABOVE CAN BE ATTAINED BY REDUCING THE QUANTITY OF PALLET UNITS IN THE TOP LAYER, OR BY REDUCING THE NUMBER OF LAYERS, AND/OR BY REDUCING THE NUMBER OF STACKS IN A LOAD. IF THE QUANTITY TO BE SHIPPED CAN BE PLACED IN ONE LAYER, THE 1-WIDE PORTION OF THE LOAD SHOWN ON PAGE 6 CAN BE USED AS GUIDANCE. INSTALL SIDE BLOCKING, SHOWN AS PIECE MARKED (2) ON PAGE 6, IN LIEU OF THE DEPICTED PIECES MARKED (1) THRU (3). AT THE REAR OF THE LOAD, INSTALL A CROSS MEMBER AT THE 4" HEIGHT. IF A LOAD WEIGHT IS MORE THAN 10,000 POUNDS, WHICH IT COULD BE FOR LINE ITEMS NO. 14 AND 16, A CROSS MEMBER MUST ALSO BE INSTALLED NEAR THE CENTER OF THE LOAD LENGTH. IF ONLY A SMALL QUANTITY OF PALLET UNITS IS TO BE SHIPPED, FORM ONE OR MORE BAYS CONTAINING ONE PALLET UNIT. SEE THE "BAY TYPE A" DETAIL ON PAGE 34 FOR GUIDANCE.
- FOR FULL LOADS OF THE BOXED-TYPE PALLET UNITS OTHER THAN THOSE LISTED ABOVE, REFER TO THE "BOXED-TYPE PALLET UNIT INDEX" ON PAGE 38 AND TO THE APPLICABLE PROCEDURES ON PAGES 26 THRU 31.

LUMBER	LINEAR FEET	BOARD FEET
2" X 2"	348	116
2" X 4"	290	194
2" X 6"	344	344
4" X 4"	12	16
NAILS	NO. REQD	POUNDS
10d (3")	574	9
12d (3-1/4")	352	6
TEEL STRAPPING. 1-1	/4" X .035" OR .031"	- 64' REQD 10

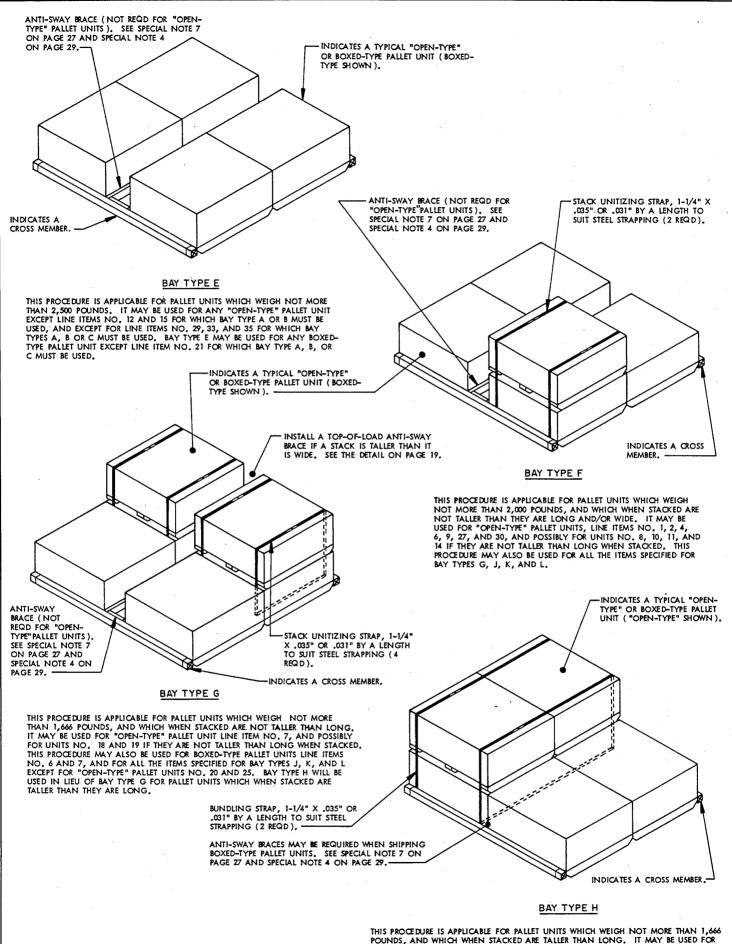
LOAD AS SHOWN (TYPICAL)

TYPICAL 30-UNIT LOAD OF BOXED-TYPE PALLET UNITS IN A 40'-0" LONG TRAILER EQUIPPED WITH MECHANICAL BRACING DEVICES

<sup>→</sup> EMPTY WEIGHTS ARE SHOWN. SEE GENERAL NOTE "O" ON PAGE 2.

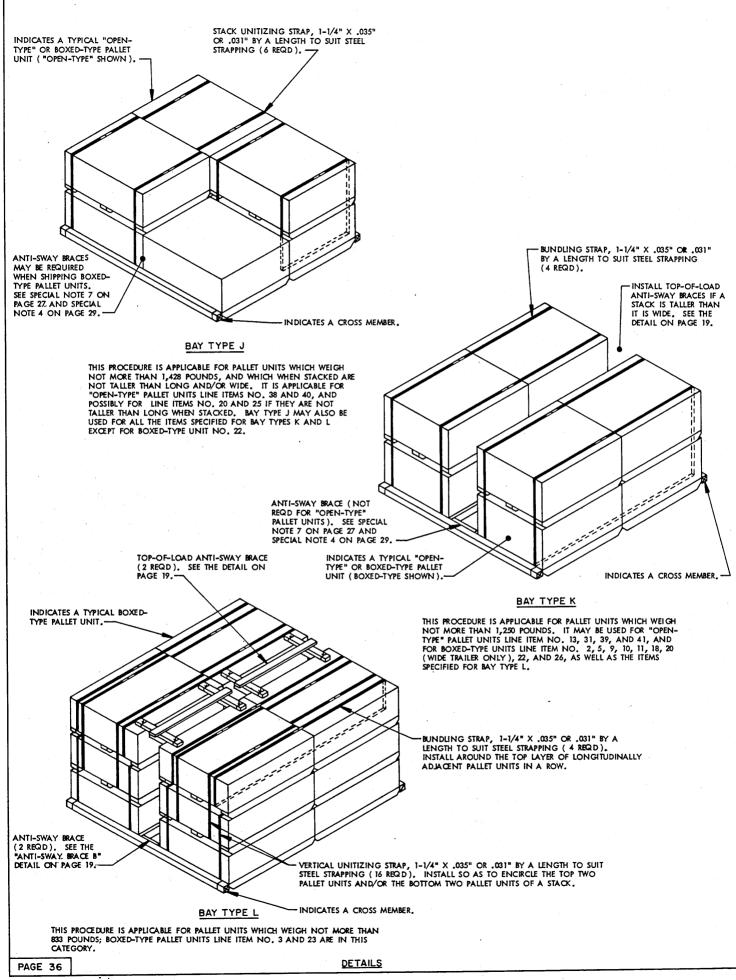


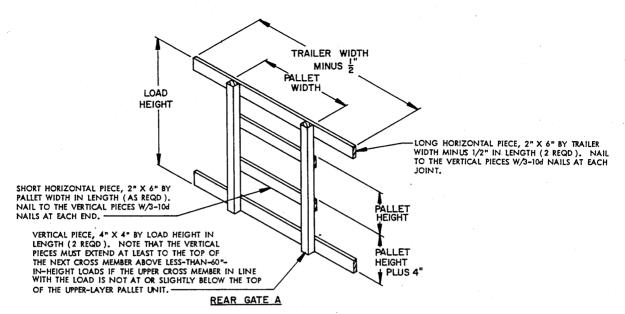
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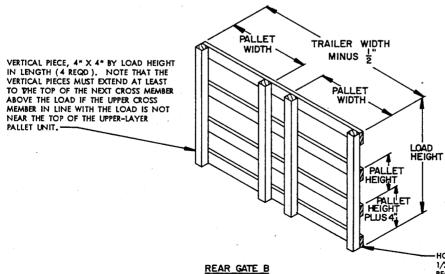
**DETAILS** 

THIS PROCEDURE IS APPLICABLE FOR PALLET UNITS WHICH WEIGH NOT MORE THAN 1,666 POUNDS, AND WHICH WHEN STACKED ARE TALLER THAN LONG. IT MAY BE USED FOR "OPEN-TYPE" PALLET UNITS LINE ITEMS NO. 7, 18, AND 19, AND FOR BOXED-TYPE UNITS NO. 6 AND 7. BAY TYPE H MAY ALSO BE USED FOR ALL THE ITEMS SPECIFIED FOR BAY TYPES J, K, AND L EXCEPT FOR BOXED-TYPE UNIT NO. 22.





THIS GATE IS FOR USE IN THE LOAD SHOWN ON PAGE 32. THE DEPICTED GATE IS FOR A 3-LAYER LOAD; A 4-LAYER LOAD WILL REQUIRE ONE ADDITIONAL SHORT HORIZONTAL PIECE, AND ONE LESS WILL BE REQUIRED FOR A 2-LAYER LOAD.



THIS GATE IS FOR USE IN THE LOAD SHOWN ON PAGE 28.ASIAN ALTERNATIVE TO THE DEPICTED PROCEDURES. SEE SPECIAL NOTE 11 ON PAGE 29. THE GATE SHOWN IS FOR USE AGAINST A 3-LAYER PORTION OF A LOAD, ADJUST THE HEIGHT FOR USE AGAINST TWO LAYERS OF A LOAD.

-HORIZONTAL PIECE, 2" X 6" BY TRAILER WIDTH MINUS 1/2" IN LENGTH (4 REQD FOR A 3-LAYER LOAD, 3 REQD FOR A 2-LAYER LOAD). NAIL TO THE VERTICAL PIECES W/3-10d NAILS AT EACH JOINT. NOTE THAT ONE-HALF INCH (1/2") OR THICKER PLYWOOD MAY BE SUBSTITUTED FOR THE 2" X 6" HORIZONTAL PIECES OF A GATE.

DETAILS

BOXED-TYPE PALLET UNIT INDEX								
	PAGE							
LINE NO.	CALIBER	DESIGNATION	CONV VAN	MECH VAN				
1	75MM	AP-T M338A1	10	28				
2	75MM	HEP-T150E 29 OR T165E29	8	28				
3	75MM	HEP-T 15 1E28	8	30				
4	105MM	APERS-T M380	10	28				
4	105MM	APERS-T XM603E1	10	28				
5	76MM	HVAP-T M93A1	10	28				
6	76MM	AP-T M339E1 OR TP-T M340A1E1	10	28				
7	76MM	CANNISTER M363	10	28				
8	90MM	CANNISTER M377	6	26				
9	76MM	HVAP-T T66E3 OR T66E5	8	28				
10	76MM	HEAT-T M496	8	28				
11	90MM	HVAP-TM332A IE1 OR HVTP-M333A IE1	10	28				
12	90MM	TP-T M35321	6	26				
13	90MM	AP-T M318A1C	6	26				
14	90MM	HEAT M431E1	12	32				
15	105MM	HEP-T M345 OR M345B1	12	32				
16	105MM	HEAT M341	12	32				
: 17	90MM	CANNISTER M336	6	26				
18	105MM	HEAT M456A1 OR M456A1E1	10	28				
19	106MM	HEP-T M346A1	12	32				
20	105MM	APDS-T M392A3	12	28				
21	120MM	AP-TM368E1 OR AP-T M359	6	26				
22	120MM	HEAT M469	10	28				
23	90MM	HEAT M371E1	8	30				
24	2.74 IN	WARHEAD HE XM229	10	26				
25	105MM	TP-T M459	10	26				
26	81MM	WP M375E2	8	28				

LINE NO.   CALIBER   DESIGNATION   CONV VAN   MECH VAN     75MM	"OPEN-TYPE" PALLET UNIT INDEX IDENTIFICATION PAGE						
1       75MM       HE M309 A1       6       22         2       75MM       HEAT-T, M310A1       6       22         3       75MM       WP 311A1       6       22         4       75MM       HE M4B       6       22         5       75MM       HE M4B       6       22         6       75MM       HEAT M66       6       22         7       75MM       HE M334       4       24         8       2.75 IN       WARHEAD WTU-I/B       6       22         9       76MM       WP-M361       6       22         10       76MM       WP-M361       6       22         11       76MM       HE-M42A1       6       24         12       105MM       HE-M42A1       6       24         12       105MM       TACTICAL CS XM632       6       22         13       2.75 IN       WARHEAD HE M151, PRACTICE XM232       4       24         14       152MM       TACTICAL CS XM632       6       22         15       90MM       AP-M82       6       22         16       90MM       AP-M82       6       22 <t< td=""><td>LINE</td><td></td><td></td><td></td><td>MECH</td></t<>	LINE				MECH		
2       75MM       HEAT-T, M310A1       6       22         3       75MM       WP 311A1       6       22         4       75MM       HE MMB       6       22         5       75MM       HE MAB       6       22         6       75MM       HEAT M66       6       22         7       75MM       HE M334       4       24         8       2.75 IN       WARHEAD WTU-1/B       6       22         9       76MM       WP-M361       6       22         10       76MM       WP-M361       6       24         11       76MM       HE-M42A1       6       24         12       105MM       HE-M42A1       6       22         13       2.75 IN       WARHEAD HE M151, PRACTICE XM232       4       24         14       152MM       TP-T XM411E2       4       22         15       90MM       HE-M71       6       22         16       90MM       HE-M71       6       22         17       90MM       WP-M313       6       22         18       90MM       HE-T91       4       24         20 <td< td=""><td>ΝО.</td><td>CALIBER</td><td></td><td>VAN</td><td></td></td<>	ΝО.	CALIBER		VAN			
3       75MM       WP 311A1       6       22         4       75MM       HE MMB       6       22         5       75MM       HEAT M66       6       22         6       75MM       HEAT M66       6       22         7       75MM       HE M334       4       24         8       2,75 IN       WARHEAD WTU-1/B       6       22         9       76MM       WP-M361       6       22         10       76MM       WP-M312       6       24         11       76MM       HE-M2A1       6       24         12       105MM       HE-M2A1       6       24         12       105MM       HE-M2A1       6       24         12       105MM       HE-M2A21       6       22         13       2,75 IN       WARHEAD HE M151, PRACTICE XM232       4       24         14       152MM       TP-T XM411E2       4       22         15       90MM       AP-M82       6       22         16       90MM       HE-M71       6       22         17       90MM       HE-M71       4       24         20       10	1	75MM	HE M309 A I		1		
4       75MM       HE MMB       6       22         5       75MM       SMOKE M64       6       22         6       75MM       HEAT M66       6       22         7       75MM       HE M334       4       24         8       2,75 IN       WARHEAD WTU-1/B       6       22         9       76MM       WP-M361       6       22         10       76MM       WP-M312       6       24         11       76MM       HE-M2A1       6       24         12       105MM       HE-M2A1       6       24         12       105MM       HE-M2A1       6       24         12       105MM       HE-M2A1       6       22         13       2,75 IN       WARHEAD HE M151, PRACTICE XM232       4       24         14       152MM       TP-T XM411E2       4       22         15       90MM       AP-M82       6       22         16       90MM       HE-M71       6       22         17       90MM       HE-M71       4       24         20       105MM       HE-M71       4       24         21       10	2	75MM					
5       75MM       SMOKE M64       6       22         6       75MM       HEAT M66       6       22         7       75MM       HE M334       4       24         8       2,75 IN       WARHEAD WTU-1/B       6       22         9       76MM       WP-M361       6       22         10       76MM       HE-M321       6       24         11       76MM       HE-M2A1       6       24         12       105MM       TACTICAL CS XM632       6       22         13       2,75 IN       WARHEAD HE M151, PRACTICE XM232       4       24         14       152MM       TP-T XM411E2       4       22         15       90MM       AP-M82       6       22         16       90MM       HE-M71       6       22         17       90MM       WP-M313       6       22         18       90MM       HE-T91       4       24         20       105MM       WR-HEAT T92       4       24         21       105MM       HE M1       6       22         23       105MM       HE M1       6       22         23	3	75MM	WP 311A1				
6 75MM HEAT M66 6 22 7 75MM HE M334 4 24 8 2,75 IN WARHEAD WTU-1/B 6 22 9 76MM WP-M361 6 22 10 76MM WP-M312 6 24 11 76MM HE-M2A1 6 24 11 105MM TACTICAL CS XM632 6 22 13 2,75 IN WARHEAD HE M151, PRACTICE XM232 4 24 14 152MM TP-T XM411E2 4 22 15 90MM AP-M82 6 22 16 90MM HE-M71 6 22 17 90MM WP-M313 6 22 18 90MM HE-T91 4 24 19 90MM HE-T91 4 24 19 90MM CHEM-T T92 4 24 20 105MM WARHEAD, 105MM, XM547 4 24 21 105MM HE M1 6 22 21 105MM HEAT M67 6 22 22 105MM HEAT M67 6 22 23 105MM HEAT M67 6 22 24 105MM HE M323 6 22 25 105MM HE M323 6 22 26 105MM HE M323 6 22 27 105MM HE M323 6 22 28 105MM HEAT M324 6 22 29 105MM HEAT M324 6 22 21 105MM HEAT M324 6 22 21 105MM HEAT M324 6 22 22 105MM HEAT M325 6 22 23 105MM HEAT M324 6 22 24 105MM HEAT M325 6 22 25 105MM HEAT M326 6 22 26 105MM HEAT M3441 4 24 27 105MM HEAT M3441 4 24 28 105MM HEAT M3441 4 24 31 106MM HEAT M3441 4 24 32 105MM HE M356 6 22 33 120MM HE M356 6 22 33 120MM HE M356 6 22 34 120MM HE M356 6 22 35 120MM HE M356 6 22 36 120MM CHEM T16E1 6 22 37 120MM CHEM T16E3 6 22 38 105MM CHEM T16E3 6 22 39 165MM CHEM T16E3 6 22 30 105MM CHEM T16E3 6 22 31 105MM HE M444, M44E1 4 24 30 165MM HE PT237E4 (M123 ) 4 24 31 155MM HE PT237E4 (M123 ) 4 24 31 155MM HE PT237E4 (M123 ) 4 24	4	75MM	HE M48		1		
7 75MM HE M334 4 24 8 2,75 IN WARHEAD WTU-1/B 6 22 9 76MM WP-M361 6 22 10 76MM WP-M312 6 24 11 76MM HE-M2A1 6 24 11 76MM HE-M2A1 6 24 12 105MM TACTICAL CS XM632 6 22 13 2,75 IN WARHEAD HE M151, PRACTICE XM232 4 24 14 152MM TP-T XM411E2 4 22 15 90MM AP-M82 6 22 16 90MM HE-M71 6 22 17 90MM WP-M313 6 22 18 90MM HE-T91 4 24 19 90MM CHEM-T T92 4 24 20 105MM WARHEAD, 105MM, XM547 4 24 21 105MM HE M1 6 22 21 105MM HE M1 6 22 22 105MM HE M57 6 22 23 105MM HE M60 6 22 24 105MM HE M323 6 22 25 105MM HE M323 6 22 27 105MM HE M324 6 22 28 105MM HE M325 6 22 29 105MM HE M442 6 22 21 105MM HE M442 6 22 22 105MM HE M442 6 22 23 105MM HE M442 6 22 24 105MM HE M442 6 22 25 105MM HE M442 6 22 26 105MM HE M442 6 22 27 105MM HE M442 6 22 28 105MM HE M442 6 22 31 106MM HE M442 6 22 31 106MM HE M442 6 22 31 105MM HE M444 6 22 31 105MM HE M442 6 22 31 105MM HE M444 6 22 31 105MM HE M444 6 22 31 105MM HE M442 6 22 31 105MM HE M444 6 22 31 105MM HE M356 6 22 31 120MM HE M444, M44E1 4 24 32 105MM HE M444, M44E1 4 24 33 165MM HE M444, M44E1 4 24 34 155MM HE M444, M44E1 4 24 39 165MM HE M444, M44E1 4 24 30 155MM HE M444, M44E1 4 24 31 155MM HE M444, M44E1 4 24	5	75MM		6			
8 2,75 IN WARHEAD WTU-1/8 6 22 10 76MM WP-M361 6 22 11 76MM HE-M42A1 6 24 11 105MM TACTICAL CS XM632 6 22 13 2,75 IN WARHEAD HE M151, PRACTICE XM232 4 24 14 152MM TP-T XM411E2 4 22 15 90MM AP-M82 6 22 16 90MM HE-M71 6 22 16 90MM HE-T91 4 24 17 90MM WP-M313 6 22 18 90MM HE-T91 4 24 20 105MM WARHEAD, 105MM, XM547 4 24 21 105MM HEAT M67 6 22 105MM HEAT M324 6 22 105MM HEAT M325 6 22 105MM HEAT M326 6 22 105MM HEAT M326 6 22 105MM HEAT M327 6 22 105MM HEAT M326 6 22 105MM HEAT M326 6 22 105MM HEAT M344A1 4 24 105MM HE M442 6 22 105MM HEAT M344A1 4 24 105MM HEAT M344A1 4 24 105MM HEAT M344A1 4 24 1105MM HEAT M356 6 22 1105MM HE M356 6 22	,6 ×	75MM	HEAT M66	6	22		
9 76MM WP-M361 10 76MM WP-M312 11 76MM HE-M42A1 12 105MM TACTICAL CS XM632 13 2.75 IN WARHEAD HE M151, PRACTICE XM232 14 152MM TP-T XM411E2 15 90MM AP-M82 16 90MM HE-M71 17 90MM WP-M313 18 90MM HE-T91 19 90MM CHEM-T 1792 20 105MM WARHEAD, 105MM, XM547 21 105MM HE M1 22 105MM HEAT M67 23 105MM HE, B, M64, M8481 24 105MM HE M323 25 105MM HE M323 26 105MM HE M323 27 105MM HE M323 28 105MM HE M324 29 105MM HEAT M324 28 105MM HEAT M324 29 105MM HE M325 29 105MM HE M42 30 105MM HE M42 31 105MM HE M42 32 105MM HE M442 33 120MM HE M442 34 120MM HE M442 35 105MM HE M442 36 27 37 120MM HE M356 38 120MM HE M356 39 165MM HE M356 30 105MM HE M356 31 120MM HE M356 31 120MM HE M356 32 120MM HE M356 33 120MM HE M356 34 120MM HE M356 35 120MM HE M356 36 22 37 120MM CHEM T16E1 37 120MM CHEM T16E3 38 105MM HE M444, M444E1 39 165MM HE M444, M444E1 40 155MM HE M444, M444E1 41 424 40 155MM HE M444, M444E1 41 424 42 424 42 424 42 424 42 424 42 424 43  11 105MM HE M356 43  125MM HE M356 44  24  24  24  24  24  24  24  24  24	7	75MM	HE M334	4	24		
10 76MM WP-M312 6 24 11 76MM HE-M42A1 6 24 12 105MM TACTICAL CS XM632 6 22 13 2,75 IN WARHEAD HE M151, PRACTICE XM232 4 24 14 152MM TP-T XM411E2 4 22 15 90MM AP-M82 6 22 16 90MM HE-M71 6 22 17 90MM WP-M313 6 22 18 90MM HE-T91 4 24 19 90MM CHEM-T 1792 4 24 20 105MM WARHEAD, 105MM, XM547 4 24 21 105MM HE M1 6 22 21 105MM HC, BE, M64, M8481 6 22 24 105MM HC, BE, M64, M8481 6 22 25 105MM HE M323 6 22 26 105MM HE M323 6 22 27 105MM HE M323 6 22 28 105MM HE M323 6 22 29 105MM HE M324 6 22 20 105MM HE M325 6 22 21 105MM HE M42 6 22 22 105MM HE M42 6 22 23 105MM HE M444 6 22 24 105MM HE M456 6 22 25 105MM HE M356 6 22 26 105MM HE M442 6 22 27 105MM HE M442 6 22 28 105MM HE M442 6 22 31 105MM HE M444 6 22 31 105MM HE M444 6 22 31 105MM HE M444 6 22 31 105MM HE M456 6 22 31 105MM HE M356 6 22 31 120MM HE M356 6 22 32 120MM HE M356 6 22 33 120MM HE M356 6 22 34 120MM HE M356 6 22 35 120MM HE M356 6 22 36 120MM HE M356 6 22 37 120MM CHEM T16E1 6 22 38 105MM HE M444, M444E1 4 24 40 152MM HE M444, M444E1 4 24 40 152MM HE M3657E2 4 4	8	2.75 IN	WARHEAD WTU-1/B	6	22		
11 76MM HE-M42A1 6 24 12 105MM TACTICAL CS XM632 6 22 13 2.75 IN WARHEAD HE M151, PRACTICE XM232 4 24 14 152MM TP-T XM41IE2 4 22 15 90MM AP-M82 6 22 16 90MM HE-M71 6 22 17 90MM WP-M313 6 22 18 90MM HE-T91 4 24 19 90MM CHEM-T 192 4 24 20 105MM WARHEAD, 105MM, XM547 4 24 21 105MM HE M1 6 22 21 105MM HE M1 6 22 22 105MM HEAT M67 6 22 23 105MM HEAT M67 6 22 24 105MM HE M323 6 22 25 105MM HE M323 6 22 27 105MM HEAT M324 6 22 28 105MM HEAT M324 6 22 29 105MM HEAT M325 6 22 29 105MM HEAT M326 6 22 29 105MM HEAT M34A1 4 24 31 105MM HEAT M34A1 4 24 32 105MM HEAT M34A1 4 24 33 120MM HE M42 6 22 31 105MM HE M42 6 22 31 105MM HEAT M34A1 4 24 32 105MM HEAT M34A1 4 24 33 120MM HE M73 6 22 34 120MM HE M73 6 22 35 120MM HE M73 6 22 36 120MM HE M356 6 22 37 120MM HE M356 6 22 38 105MM CHEM T16E3 6 22 39 165MM HE M444, M44E1 4 24 30 105MM HE M444, M44E1 4 24 31 105MM CHEM T16E3 6 22 38 105MM HE M444, M44E1 4 24 39 165MM HE M444, M44E1 4 24 30 155MM HE M444, M44E1 4 24 31 105MM HE M444, M44E1 4 24	9	76MM	WP-M361	6	22		
12 105MM TACTICAL CS XM632 6 22 13 2.75 IN WARHEAD HE M151, PRACTICE XM232 4 24 14 152MM TP-T XM41IE2 4 22 15 90MM AP-M82 6 22 16 90MM HE-M71 6 22 17 90MM WP-M313 6 22 18 90MM HE-T91 4 24 19 90MM CHEM-T 192 4 24 20 105MM WARHEAD, 105MM, XM547 4 24 21 105MM HE M1 6 22 21 105MM HEAT M67 6 22 23 105MM HC, BE, M64, M84B1 6 22 24 105MM HEP M393A2, WP XM416 4 24 25 105MM HE M323 6 22 27 105MM HEAT M324 6 22 28 105MM HEAT M324 6 22 29 105MM HEAT M325 6 22 29 105MM HE M42 6 22 29 105MM HE M42 6 22 30 105MM HE M42 6 22 31 105MM HE M442 6 22 33 120MM HE M442 6 22 34 120MM HE M356 6 22 35 120MM HE M356 6 22 36 120MM HE M356 6 22 37 120MM HE M356 6 22 38 120MM HE M356 6 22 39 15MM CHEM T16E3 6 22 30 105MM HE M356 6 22 31 120MM HE M356 6 22 32 120MM HE M356 6 22 33 120MM HE M356 6 22 34 120MM CHEM T16E3 6 22 35 120MM CHEM T16E3 6 22 36 120MM CHEM T16E3 6 22 37 120MM CHEM T16E3 6 22 38 105MM HE M444, M44E1 4 24 39 165MM HE M444, M44E1 4 24 30 155MM HE M444, M44E1 4 24 31 15MM HE M444, M44E1 4 24 31 15MM HE M444, M44E1 4 24 32 15MM HE M444, M44E1 4 24 33 165MM HE M444, M44E1 4 24 34 15ZMM HE M444, M44E1 4 24 36 15ZMM HE M444, M44E1 4 24 37 16SMM HE M444, M44E1 4 24 38 16SMM HE M444, M44E1 4 24 39 16SMM HE M444, M44E1 4 24	10	76MM	WP-M312	6	24		
13       2,75 IN       WARHEAD HE M151, PRACTICE XM232       4       24         14       152MM       TP-T XM411E2       4       22         15       90MM       AP-M82       6       22         16       90MM       HE-M71       6       22         17       90MM       WP-M313       6       22         18       90MM       HE-T91       4       24         19       90MM       CHEM-T T92       4       24         20       105MM       HE-T91       4       24         21       105MM       WRHEAD, 105MM, XM547       4       24         21       105MM       HE M1       6       22         22       105MM       HEAT M67       6       22         23       105MM       HC, BE, M64, M84B1       6       22         24       105MM       HC, BE, M64, M84B1       6       22         25       105MM       HC, BE, M64, M84B1       6       22         25       105MM       HE M323       6       22         27       105MM       HE M323       6       22         29       105MM       HE M442       6       22	11	76MM	HE-M42A1	6	24		
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20       105MM       WARHEAD, 105MM, XM547       4       24         21       105MM       HE M1       6       22         22       105MM       HEAT M67       6       22         23       105MM       HC, BE, M64, M84B1       6       22         24       105MM       WP M60       6       22         25       105MM       HEP M393A2, WP XM416       4       24         26       105MM       HE M323       6       22         27       105MM       HEAT M324       6       22         28       105MM       WP M325       6       22         29       105MM       HE M422       6       22         30       105MM       HE M442       6       22         31       105MM       HEAT M344A1       4       24         32       105MM       TP-T XM468       6       22         33       120MM       HE M73       6       22         34       120MM       HE M356       6       22         35       120MM       HE T15E3       6       22         36       120MM       CHEM T16E1       6       22	18	90,444	HE-T91	4	24		
21       105MM       HE M1       6       22         22       105MM       HEAT M67       6       22         23       105MM       HC, BE, M64, M8481       6       22         24       105MM       HC, BE, M64, M8481       6       22         25       105MM       HEP M393A2, WP XM416       4       24         26       105MM       HE M323       6       22         27       105MM       HEAT M324       6       22         28       105MM       WP M325       6       22         29       105MM       HE M442       6       22         30       105MM       HE M442       6       22         31       106MM       HEAT M344A1       4       24         32       105MM       TP-T XM468       6       22         33       120MM       HE M356       6       22         34       120MM       HE M356       6       22         35       120MM       HE T15E3       6       22         36       120MM       CHEM T16E1       6       22         38       105MM       HE M444, M444E1       4       24 <tr< td=""><td>19</td><td>90MM</td><td>CHEM-T T92</td><td>4</td><td>24</td></tr<>	19	90MM	CHEM-T T92	4	24		
22       105MM       HEAT M67       6       22         23       105MM       HC, BE, M64, M84B1       6       22         24       105MM       WP M60       6       22         25       105MM       HEP M393A2, WP XM416       4       24         26       105MM       HE M323       6       22         27       105MM       HEAT M324       6       22         28       105MM       WP M325       6       22         29       105MM       HE M42       6       22         30       105MM       HE M442       6       22         31       106MM       HEAT M344A1       4       24         32       105MM       TP-T XM468       6       22         33       120MM       HE M73       6       22         34       120MM       HE M356       6       22         35       120MM       HE T15E3       6       22         36       120MM       CHEM T16E1       6       22         37       120MM       CHEM T16E3       6       22         38       105MM       HE M444, M44E1       4       24 <t< td=""><td>20</td><td>105MM</td><td>WARHEAD, 105MM, XM547</td><td>4</td><td>24</td></t<>	20	105MM	WARHEAD, 105MM, XM547	4	24		
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24       105MM       WP M60       6       22         25       105MM       HEP M393A2, WP XM416       4       24         26       105MM       HE M323       6       22         27       105MM       HEAT M324       6       22         28       105MM       WP M325       6       22         29       105MM       HE M42       6       22         30       105MM       HE M442       6       22         31       106MM       HEAT M344A1       4       24         32       105MM       TP-T XM468       6       22         33       120MM       HE M73       6       22         34       120MM       HE M356       6       22         35       120MM       HE T15E3       6       22         36       120MM       CHEM T16E1       6       22         38       105MM       HE M444, M44E1       4       24         40       152MM       HE XM657E2       4       24	22	105MM	HEAT M67	6	22		
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26       105MM       HE M323       6       22         27       105MM       HEAT M324       6       22         28       105MM       WP M325       6       22         29       105MM       ILLUM , XM314A2E1       6       22         30       105MM       HE M442       6       22         31       105MM       HEAT M344A1       4       24         32       105MM       TP-T XM468       6       22         33       120MM       HE M73       6       22         34       120MM       HE M356       6       22         35       120MM       HE T15E3       6       22         36       120MM       CHEM T16E1       6       22         37       120MM       CHEM T16E3       6       22         38       105MM       HE M444, M44E1       4       24         40       152MM       HE XM657E2       4       24	24	105MM	WP M60	6	22		
27     105MM     HEAT M324     6     22       28     105MM     WP M325     6     22       29     105MM     ILLUM , XM314A2E1     6     22       30     105MM     HE M442     6     22       31     106MM     HEAT M344A1     4     24       32     105MM     TP-T XM468     6     22       33     120MM     HE M73     6     22       34     120MM     HE M356     6     22       35     120MM     HE T15E3     6     22       36     120MM     CHEM T16E1     6     22       37     120MM     CHEM T16E3     6     22       38     105MM     HE M444, M44E1     4     24       40     152MM     HE XM657E2     4     24	25	105MM	HEP M393A2, WP XM416	4	24		
28 105MM WP M325 6 22 29 105MM ILLUM, XM314A2E1 6 22 30 105MM HE M442 6 22 31 106MM HEAT M344A1 4 24 32 105MM TP-T XM468 6 22 33 120MM HE M73 6 22 34 120MM HE M356 6 22 35 120MM HE T15E3 6 22 36 120MM CHEM T16E1 6 22 37 120MM CHEM T16E3 6 22 38 105MM HE M444, M444E1 4 24 39 165MM HE M444, M444E1 4 24 40 152MM HE XM657E2 4 24	26	105MM	HE M323	6	22		
29 105MM ILLUM , XM314A2E1 6 22 30 105MM HE M442 6 22 31 105MM HEAT M344A1 4 24 32 105MM TP-T XM468 6 22 33 120MM HE M73 6 22 34 120MM HE M356 6 22 35 120MM HE T15E3 6 22 36 120MM CHEM T16E1 6 22 37 120MM CHEM T16E3 6 22 38 105MM HE M444, M44E1 4 24 39 165MM HE M444, M44E1 4 24 40 152MM HE XM657E2 4 24	27	105MM	HEAT M324	6	22		
30 105MM HE M442 6 22 31 106MM HEAT M344A1 4 24 32 105MM TP-T XM468 6 22 33 120MM HE M73 6 22 34 120MM HE M356 6 22 35 120MM HE T15E3 6 22 36 120MM CHEM T16E1 6 22 37 120MM CHEM T16E3 6 22 38 105MM HE M444, M44E1 4 24 39 165MM HEP T237E4 (M123) 4 24 40 152MM HE XM657E2 4 24	28	105MM	WP M325	6	22		
31 106MM HEAT M344A1 4 24 32 105MM TP-T XM468 6 22 33 120MM HE M73 6 22 34 120MM HE M356 6 22 35 120MM HE T15E3 6 22 36 120MM CHEM T16E1 6 22 37 120MM CHEM T16E3 6 22 38 105MM HE M444, M444E1 4 24 39 165MM HE M444, M444E1 4 24 40 152MM HE XM657E2 4 24	29	105MM	ILLUM , XM314A2E1	6	22		
32 105MM TP-T XM468 6 22 33 120MM HE M73 6 22 34 120MM HE M356 6 22 35 120MM HE T15E3 6 22 36 120MM CHEM T16E1 6 22 37 120MM CHEM T16E3 6 22 38 105MM HE M444, M44E1 4 24 39 165MM HEP T237E4 (M123) 4 24 40 152MM HE XM657E2 4 24	30	105MM	HE M442	6	22		
33 120MM HE M73 6 22  34 120MM HE M356 6 22  35 120MM HE T15E3 6 22  36 120MM CHEM T16E1 6 22  37 120MM CHEM T16E3 6 22  38 105MM HE M444, M44E1 4 24  39 165MM HEP T237E4 (M123) 4 24  40 152MM HE XM657E2 4 24	31	106MM	HEAT M344A1	4	24		
34 120MM HE M356 6 22 35 120MM HE T15E3 6 22 36 120MM CHEM T16E1 6 22 37 120MM CHEM T16E3 6 22 38 105MM HE M444, M44E1 4 24 39 165MM HEP T237E4 (M123) 4 24 40 152MM HE XM657E2 4 24	32	105MM	TP-T XM468	6	22		
35 120MM HE T15E3 6 22 36 120MM CHEM T16E1 6 22 37 120MM CHEM T16E3 6 22 38 105MM HE M444, M44E1 4 24 39 165MM HEP T237E4 (M123) 4 24 40 152MM HE XM657E2 4 24	33	120MM	HE M73	6	22		
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