# LOADING AND BRACING (TL & LTL) IN CLOSED OR OPEN TOP VAN TRAILERS OF VARIOUS SIZE BOMB BODIES

# INDEX

I TEM		n. Tagan sa	PAGE(S)
GENERAL NOTES, AND MATERIAL SPECIFICATIONS	S		- 2
DETAIL OF BOMB BODIESBOOMERS BOOMERS LOADED IN A 40'-0'' LONG TRAIL OF TAILS BOOMERS LOADED IN A 40'-0'' LONG TRAIL			- 6
117-MK82 BOMBS LOADED IN A 40'-0'' LONG TRAIL	ER		7 - 9 - 10.11
TYPICAL LTL DETAILS DETAILS			13
84-MK83 BOMBS LOADED IN A 40'-0' LONG TRAIL IYPICAL LTL DETAILS			16
22-MK84 BOMBS LOADED IN A 40'-0" LONG TRAILE TYPICAL LTL	ER		18,19
DETAILS			

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

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O NOT SCALE

# GENERAL NOTES

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR 740-1, AND AUGMENTS TM 743-200-1 (CHAPTER 5).
- B. THE OUTLOADING PROCEDURES SPECIFIED WITHIN THIS DOCUMENT ARE APPLI-CABLE TO VARIOUS SIZE BOMB BODIES IN VAN TRAILERS.
- C. FOR DETAILS OF THE SPECIFIC BOMB BODIES SHOWN WITHIN THIS DRAWING, SEE THE DETAILS ON PAGE 3.
- D. THE LOADS AS SHOWN HEREIN ARE BASED ON 40"-0" LONG BY 7"-6" WIDE (INSIDE DIMENSION) CLOSED OR OPEN TOP VAN TRAILERS AND THEY ARE LIMITED TO HIGHWAY MOVEMENTS ONLY.
- E. 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 ACCORDING!
- F. NOTICE: A SHIPMENT WILL BE POSITIONED IN A TRAILER CONSISTENT WITH STATE WEIGHT LAWS. THE NUMBER OF UNITS MAY BE ADJUSTED TO FIT THE QUANTITY TO BE SHIPPED; HOWEVER, THE APPROVED METHODS CONTAINED HEREIN MUST BE FOLLOWED AS CLOSELY AS POSSIBLE FOR BLOCKING, BRACING AND STAYING OF THE DESIGNATED LIEM.
- G. FLOOR RISERS AND INTERMEDIATE DUNNAGE AS SHOWN THROUGHOUT THIS DRAWING MAY BE CONSTRUCTED FROM RANDOM LENGTH MATERIAL FOR EASE IN LOADING OPERATIONS.
- H. DUNNAGE LUMBER SPECIFIED THROUGHOUT THIS PROCEDURAL DRAWING IS OF NOMINAL SIZE. FOR EXAMPLE, 2" X 6" MATERIAL IS ACTUALLY 1-1/2" THICK BY 5-1/2" WIDE AND 4" X 4" MATERIAL IS ACTUALLY 3-1/2" THICK BY 3-1/2" WIDE
- J. A STAGGERED NAILING PATTERN WILL BE USED WHENEVER 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 TRANSPORTING VEHICLE, OR WHEN LAMINATING DUNNAGE. ADDITIONALLY, THE NAILING PATTERN FOR AN UPPER PIECE OF LAMINATED DUNNAGE WILL BE ADJUSTED AS REQUIRED SO THAT A NAIL FOR THAT PIECE WILL NOT BE DRIVEN THROUGH ONTO OR RIGHT BESIDE A NAIL IN A LOWER PIECE.
- K. POWER DRIVEN STAPLES MAY BE USED AS ALTERNATIVE FASTENERS FOR NAILS WHEN CONSTRUCTING DUNNAGE ASSEMBLIES WHICH ARE TO BE USED IN THE DELINEATED TRAILER LOADS SHOWN THROUGHOUT THIS DRAWING. THE STAPLES TO BE USED MUST BE EQUAL IN LENGTH TO THE SPECIFIED NAIL SIZE AND MUST BE SUBSTITUTED ON A ONE STAPLE FOR ONE NAIL BASIS. STAPLES WHICH ARE 2-1/2" OR LESS IN LENGTH SHOULD BE IN ACCORDANCE WITH FEDERAL SPECIFICATION FF-N-105 AS NEARLY AS PRACTICABLE. STAPLES WHICH ARE LONGER THAN 2-1/2" WILL BE A COMMERCIAL GRADE, OF A QUALITY EQUIVALENT TO THOSE MANUFACTURED BY SENCO PRODUCTS INCORPORATED. NOTE: STAPLES WILL NOT BE SUBSTITUTED FOR NAILS IN ANY LOAD RESTRAINING FLOOR DUNNAGE APPLICATION.
- L. PORTIONS OF THE TRAILER BODIES DEPICTED WITHIN THIS PROCEDURAL DRAWING, SUCH AS ONE OF THE VAN TRAILER SIDE WALLS, HAVE NOT BEEN SHOWN IN THE LOAD VIEWS FOR CLARITY PURPOSES.
- M. THROUGHOUT THIS PROCEDURAL DRAWING, CORRUGATED RUBDER MATTING FASTENED TO THE FLOOR DUNNAGE OR INTERMEDIATE DUNNAGE IS SPECIFIED TO PROTECT THE PAINTED SURFACE OF THE BOMB BODIES. CORRUGATED RUBBER MATTING OF THE TYPE SHOWN IS "AVAILABLE FROM MEMASTER-CARR SUPPLY COMPANY, CHICAGO, IL, AND IS LISTED AS CATALOG NUMBER 6974T3. THIS RUBBER MATTING WILL HAVE TO BE CUT TO A WIDTH OF 5-1/2" AND FASTENED TO THE DUNNAGE EITHER WITH THE USE OF AN APPROPRIATE ADHESIVE OR BY SMALL NAILS OR STAPLES PLACED SO AS NOT TO CONTACT THE BOMB BODIES.
- N. NOTICE: IT IS IMPORTANT THAT THE PAINTED SURFACE OF THE BOMB BODIES BE THOROUGHLY DRY PRIOR TO LOADING IN THE TRANSPORTING VEHICLE.
- FOR ADDITIONAL GUIDANCE, ATTENTION IS DIRECTED TO THE "SPECIAL NOTES" SECTIONS WHICH ARE IMMEDIATELY ADJACENT TO THE DEPICTED OUTLOADING METHODS.

(CONTINUED AT RIGHT)

# MATERIAL SPECIFICATIONS

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

NAILS ----- : COMMON, FED SPEC FF-N-105.

STRAPPING, STEEL -----: CLASS 1, TYPE I OR IV, HEAVY DUTY, FINISH A, B, (GRADE 2),
OR C; FED SPEC QQ-S-781.

SEAL, STRAP -----TYPE D, STYLE I, II OR IV, CLASS H, FINISH A, B (GRADE 2),
OR C; FED SPEC QQ-5-781.

OR C; FED SPEC QQ-5-781.

MAT, RUBBER -----: MAT, FLOOR, STANDING, MIL-M-910E (OR EQUAL).

ANTI-CHAFING MATERIAL

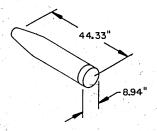
-----: NEUTRAL BARRIER MATERIAL, MIL-B-121 (OR EQUAL).

# PAGE 2

# -----

# ( GENERAL NOTES CONTINUED )

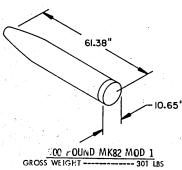
- P. CONVERSION TO METRIC EQUIVALENTS: DIMENSIONS WITHIN THIS DOCUMENT ARE EXPRESSED IN INCHES, AND WEIGHTS ARE EXPRESSED IN POUNDS. WHEN NECESSARY, THE METRIC EQUIVALENTS MAY BE COMPUTED ON THE BASIS OF ONE INCH EQUALS 25,4MM AND ONE POUND EQUALS 0,454 KG.
- Q. WHEN STEEL STRAPPING IS SEALED AT AN END-OVER-END LAP JOINT, A MINIMUM OF ONE (1) SEAL WITH TWO (2) PAIR OF NOTCHES WILL BE USED TO
  SEAL THE JOINT WHEN A NOTCH-TYPE SEALER IS BEING USED. A MINIMUM OF
  TWO (2) SEALS, BUTTED TOGETHER, WITH TWO (2) PAIR OF CRIMPS PER SEAL
  WILL BE USED TO SEAL THE JOINT WHEN A CRIMP-TYPE SEALER IS BEING USED.
  REFER TO THE "STRAP JOINT A" AND "STRAP JOINT B" DETAILS ON PAGE 22 FOR
  GUIDANCE.



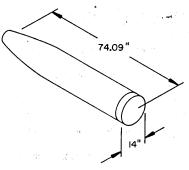
250 POUND MK81 MOD .

GROSS WEIGHT ------ 135 LBS

NAVARSYSCOM DWG NO. 923AS114 ( REV A )

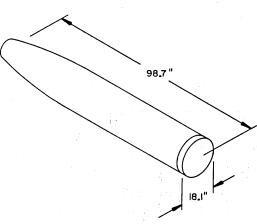


NAVARSYSCOM DWG NO. 1380545 (REV AA)



GROSS WEIGHT ------ 475 LBS

NAVARSYSCOM DWG NO. 2841464 ( REV M )

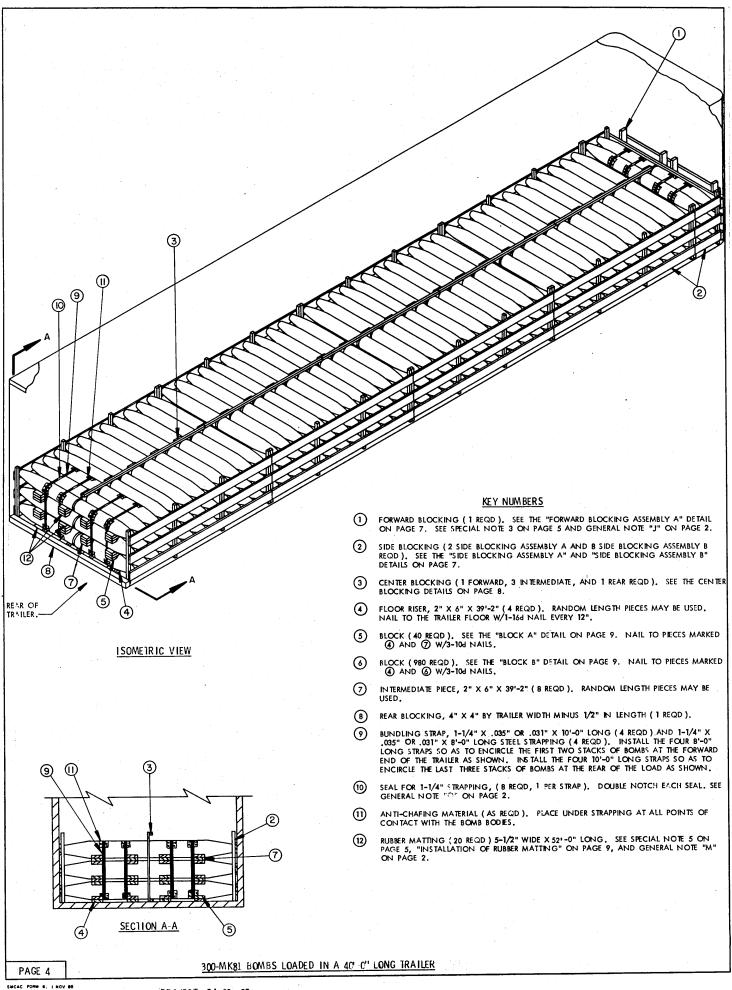


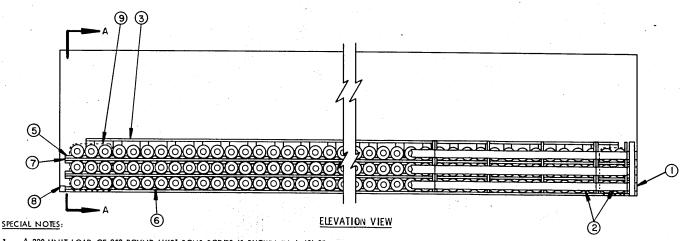
\_,000 POUND MK84 MOD 4

GROS" WEIGHT ----- 950 LBS

NAVARSYSCOM DWG NO. 923AS 105 ( REV A )

DETAIL OF BOMB BODIES





- A 300-UNIT LOAD OF 250-POUND MK81 BOMB BODIES IS SHOWN IN A 40'-0" LONG VAN TRAILER WITH INSIDE DIMENSIONS OF 39'-6" LONG BY 7'-6" WIDE, WIDER TRAILERS MAY BE USED.
- IF A WIDER TRAILER IS TO BE USED FOR SHIPMENT OF THE BOMBS, THE VERTICAL PIECES OF THE CENTER AND/OR HORIZONTAL PIECES OF THE SIDE BLOCKING ASSEMBLIES MAY BE INCREASED IN THICKNESS.
- 3. A TRAILER WITH ROUNDED CORNERS AT THE FORWARD END IS SHOWN IN THE LOAD VIEW. IF THE TRAILER BEING USED HAS SQUARE CORNERS, OMIT THE FORWARD BLOCKING, PIECE MARKED 1). REDUCE THE LENGTH OF THE FLOOR RISER AND IN TERMEDIATE PIECE TO 38'-8" LONG AND PLACE THE FIRST STACK OF BOMBS DIRECTLY AGAINST THE FRONT WALL OF THE TRAILER.
- 4. THE QUANTITY OF BOMB BODIES SHIPPED MAY BE REDUCED AS NECESSARY BY OMITTING STACKS OR LAYERS OF BOMBS AND ADJUSTING THE DUNNAGE REQUIREMENTS.
- 5. RUBBER MATTING, DESCRIBED WITHIN GENERAL NOTE "M" ON PAGE 2 AND SHOWN ON PAGE 9, IS TO 3E USED TO PROTECT THE SPECIAL PAINTED FINISH AND PREVENT DAMAGE TO THE BOMB BODIES. IN ADDITION, CARE MLGT BE EXERCISED DURING LOADING OPERATIONS TO ENSURE THAT THE MATTING IS NOT TORN WHEN THE BOMBS ARE PLACED UPON IT. ALSO, NOTE THAT THE MATTING IS TO BE PLACED BETWEEN THE BOMBS AND DUNNAGE BOTH ON TOP OF AND UNDERNEATH EACH BOMB, AS APPLICABLE.

	BILL OF MATERIAL	
LUMBER	LINEAR FEET	BOARD FEET
1" X 6" 2" X 2" 2" X 4" 2" X 6" 4" X 4"	306 184 12 980 8	153 62 8 980 10
NAILS	NO. REGD	POUNDS
6d (2") 10d (3") 16d (3-1/2")	424 3,072 156	2-1/2 47-1/4 3-1/2

 STEEL STRAPPING, 1-1/4" X .035" ----- 72' REQD ------ 10-1/4 LBS

 SEAL FOR 1-1/4" STRAPPING ------- 8 REQD ------ 1/2 LB

 RUBBER MAT, 1/4" X 5-1/2" ------- 1,040' REQD ------ 200

 BAN TI-CHAFING -------- AS REQD ------ NIL

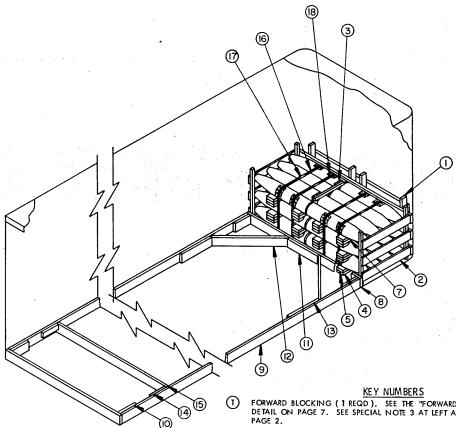
# LOAD AS SHOWN

 ITEM
 QUANTITY
 WEIGHT (APPROX )

 250 LB BOMB
 300
 40,500 LBS

 DUNNAGE
 2,650 LBS

TOTAL WEIGHT ----- 43,150 LBS (APPROX)



# ISOMETRIC VIEW

- A 24-UNIT LOAD OF 250 POUND BOMB BODIES IS SHOWN. THESE OUTLOADING PROCEDURES DEPICT THE USE OF "K-BRACE" TYPE BLOCKING IN A 7'-6" WIDE ( INSIDE DIMENSION ) VAN TRAILER.
- THE DEPICTED "K-BRACE" BLOCKING WILL RETAIN A MAXIMUM OF 20,000
- A TRAILER WITH ROUNDED CORNERS AT THE FORWARD END IS SHOWN IN THE LOAD VIEW. IF THE TRAILER BEING USED HAS SQUARE CORNERS, OMIT THE FORWARD BLOCKING, PIECE MARKED (1), REDUCE THE LENGTH OF THE FLOOR RISER AND IN TERMEDIATE PIECES BY 3-1/2" AND POSITION SO THAT THE BOMB BODIES CONTACT THE FRONT WALL OF THE TRAILER.
- RUBBER MATTING, DESCRIBED WITHIN GENERAL NOTE "M" ON PAGE 2 AND SHOWN ON PAGE 9, IS TO BE USED TO PROTECT THE SPECIAL PAINTED FINISH AND PREVENT DAMAGE TO THE BOMB BODIES. IN ADDITION, CARE MUST BE EXERCISED DURING LOADING AND UNLOADING O'REATIONS. SEE SPECIAL NOTE 5 ON PAGE 5.

  DEPENDING ON THE NUMBER OF STACKS OF BOMB BODIES BEING LOADED, EACH OF THE SIDE STRUTS, PIECES MARKED (9), 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 6" X 24" PIECE ON THE JOINT OF THE SIDE STRUTS AND NAILING IT TO THE SIDE STRUTS W/4-104 NAILS AT EACH END. AND NAILING IT TO THE SIDE STRUTS W/4-104 NAILS AT EACH END.
- ALL LTL LOADS REGARDLESS OF THEIR SIZE, REQUIRE ONE STRUT BRACE POSITIONED NEAR THE REAR OF THE TRAILER AND NAILED TO THE SIDE STRUTS. IF THE SIDE STRUTS, PIECES MARKED (9), ARE LONGER THAN 7'-0", AN ADDITIONAL STRUT BRACE, PIECES MARKED (14) AND (15), MUST BE ADDIED ONE STRUTS LONG THE STRUTS BRACE, PIECES MARKED (14). APPLIED FOR EVERY 7'-0" OF SIDE STRUT LENGTH.
- 7. SEE THE "NAILED-HEADER" METHOD ON PAGE 22 FOR ALTERNATIVE REAR BLOCKING PROCEDURES.

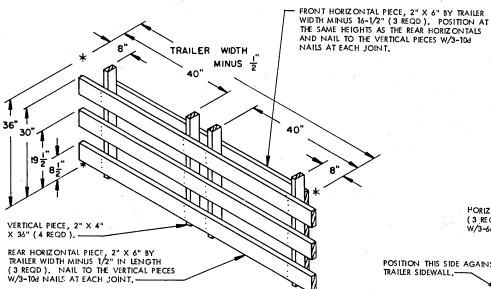
- FORWARD BLOCKING (1 REQD), SEE THE "FORWARD BLOCKING ASSEMBLY A" DETAIL ON PAGE 7. SEE SPECIAL NOTE 3 AT LEFT AND GENERAL NOTE "J" ON
- SIDE BLOCKING (2:036-1/2" LONG REQD ). SEE THE "SIDE BLOCKING ASSEMBLY A" DETAIL ON PAGE 7.
- CENTER BLOCKING ( I REQD ). SEE THE "CENTER BLOCKING" DETAILS ON
- FLOOR RISER, 2" X 6" X  $35^{\circ}$  (4 REQD ). NAIL TO THE TRAILER FLOOR W/1–16d NAIL EVERY 12".
- BLOCK (40 REQD), SEE THE "BLOCK A" DETAIL ON PAGE 9. NAIL TO PIECES MARKED (4) AND (7) W/3-10d NAILS.
- BLOCK ( 60 REQD ). SEE THE "BLOCK B" DETAIL ON PAGE 9. NAIL TO PIECES MARKED ( ) AND ( ) W/3-10d NAILS .
- 7 INTERMEDIATE PIECE, 2" X 6" X 35" (8 REQD ).
- HEADER, 2" X 6" BY TRAILER WIDTH MINUS 1/2" IN LENGTH (2 REQD).
- SIDE STRUT, 2" X 6" BY CUT-TO-FIT BETWEEN FORWARD AND REAR HEADERS, PIECES MARKED 8 (2 REQD). SEE SPECIAL NOTE 5 AT LEFT.
- POCKET CLEAT, 2" X 6" X 12" (4 REQD ). NAIL TO SIDE STRUT, PIECE MARKED 

  W/3-10d NAILS. TOENAIL TO THE ADJACENT HEADER, PIECE MARKED 

  REPORTED TO THE ADJACENT HEADER HEA W/3-12d NAILS.
- CENTER CLEAT, 2" X 6" X 30" ( 1 REQD ). NAIL TO A HEADER, PIECE MARKED 

  (B) , W/6-10d NAILS.
- DIAGONAL BRACE, 2" X 6" BY CUT-TO-FIT (2 REQD), DOUBLE BEVEL EACH END WITH 45° CUTS. INSTALL AT A 45° ANGLE AS SHOWN AND TOENAIL TO THE ADJACENT HEADER AND SIDE STRUT, PIECES MARKED (B) AND (9), W/2-16d NAILS AT EACH END.
- BACK-UP CLEAT, 2" X 6" X 30" ( 2 REQD ). NAIL TO A SIDE STRUT, PIECE MARKED 9 , W/8-104 NAILS.
- 14) STRUT BRACE RETAINING CLEAT, 2" X 4" X 12" ( AS REQD ). NAIL TO A SIDE STRUT, PIECE MARKED 9 , W/3-10d NAILS.
- STRUT BRACE, 2" X 4" BY TRAILER WIDTH MINUS 3" IN LENGTH, (MINIMUM OF ONE REQUIRED). NAIL TO THE STRUT BRACE RETAINING CLEATS, PIECE MARKED (A), W/2-12d NAILS AT EACH END. SEE SPECIAL NOTE 6 AT LEFT. (15)
- BUNDLING STRAP, 1-1/4" X .035" OR .031" X 10'-0" LONG STEEL STRAPPING (4 REQD), INSTALL TO ENCIRCLE 12 BOMBS AS SHOWN ABOVE.
- SEAL FOR 1-1/4" STRAPPING, (4 REQD, 1 PER STRAP). DOUBLE NOTCH EACH SEAL SEE GENERAL NOTE "O" ON PAGE 2.
- ANTI-CHAFING MATERIAL, ( AS REQD ). PLACE UNDER STRAPPING AT ALL POINTS (18) OF CONTACT WITH BOMB BODIES.
- Rubber matting, ( 20 reqd ), 5-1/2" Wide x 48" long. See Special note 4 at left, "installation of Rubber matting" on page 9, and general note "M" ON PAGE 2.

TYPICAL LTL (24 BOMBS ) (250LB MK31 )

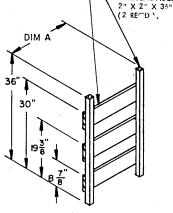


HORIZONTAL PIECE, 1" X 6" BY DIMENSION A (3 REQD). NAIL TO THE VERTICAL PIECES W/3-64 NAILS AT EACH JOINT.

POSITION THIS SIDE AGAINST TRAILER SIDEWALL.

FORWARD BLOCKING ASSEMBLY A
THIS FORWARD BLOCKING ASSEMBLY IS APPLICABLE FOR
A 3-LAYER LOAD OF 250 POUND BOMB BODIES. IF LESS
THAN 3-LAYERS ARE TO BE SHIPPED, THE ASSEMBLY MAY
BE REDUCED IN HEIGHT ACCORDINGLY.

CHART A		
NOBOMBS	DIM A	
1	8-3/4"	
2	18"	
3	26-1/2"	
4	36-1/2"	



VERTICAL PIECE

SIDE BLOCLING ASSEMBLY A

THIS ASSEMBLY SHALL BE USED IN THE
SHIPMENT OF 1 THRU 4 STACKS OF BOMBS
3 LAYERS IN HEIGHT. THE HEIGHT MAY BE
ADJUSTED AS REQUIRED DEPENDING ON THE
NUMBER OF LAYERS OF BOMBS. SEE CHART A AT LEFT.

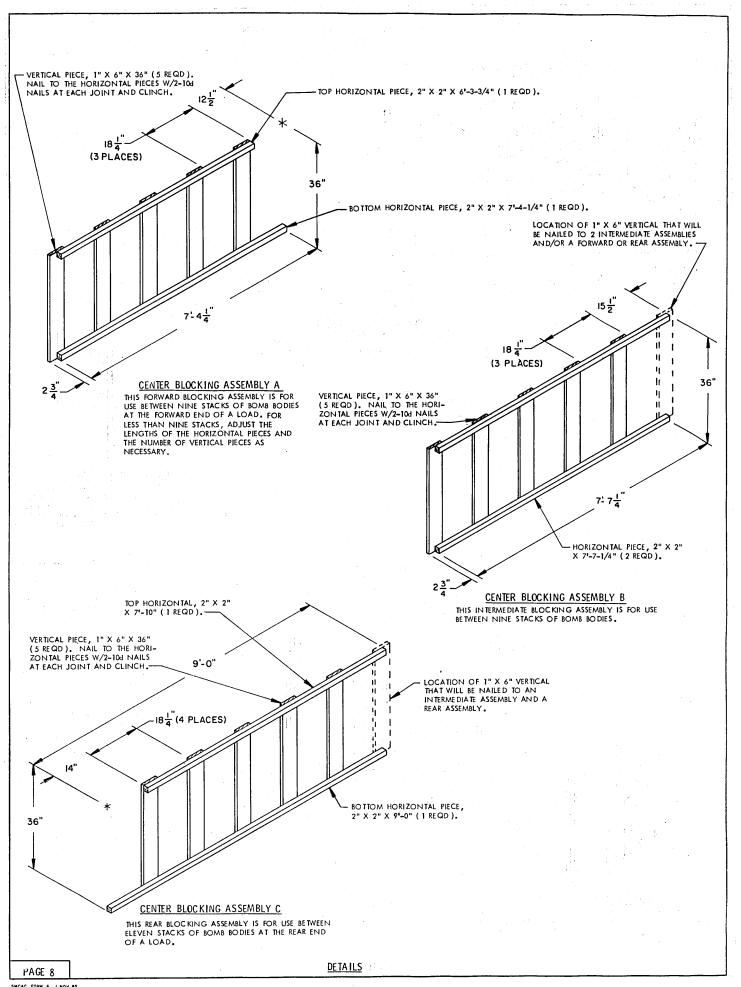
POSITION THIS SIDE AGAINST TRAILER SIDEWALL	DIM C
DIM B	
DIM C	
36"	VERTICAL PIECE, 2" X 2" X 36" (4 REQD).
98	HORIZONTAL PIECE, 1" X 6" X DIMENSION B (3 REQD). NAIL TO THE VERTICAL PIECES W/3-6d NAILS AT EACH JOINT.
878	

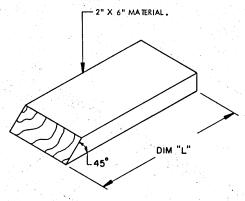
CHART B				
NO.BOMBS	DIM B	DIM C		
5	45-1/2"	17-5/8"		
6	54-3/4"	17-5/8"		
7	64"	17-5/8"		
8	6'-1-1/4"	27"		
9	6'-10-1/4"	27"		
10	7'-7-1/2"	27"		
- 11	8'-4-3/4"	36"		
12	9'-2"	36"		

SIDE BLOCKING ASSEMBLY B

THIS ASSEMBLY SHALL BE USED IN THE SHIPMENT OF 5 THRU 12 STACTES OF BOMBS 3 LAYERS IN HEIGHT. THE HEIGHT MAY BE ADJUSTED AS REQUIRED DEPENDING ON THE NUMBER OF LAYERS OF BOMBS. SEE CHART B AT RIGHT.

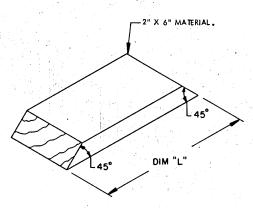
DETAILS





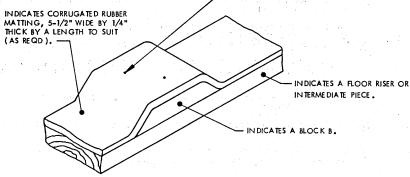
BLOCK A
SEE CHART AT RIGHT FOR DIM "L".

	CHART C	
вомв	BLOCK STYLE	"L" LENGTH
250 LB	A B	6" 5 <b>–</b> 3/8"
500 LB	A B	6" 7"
1,000 Lb	A B	4-1/8" 10-1/8"
2,000 LB	A B	10" 13-1/4"



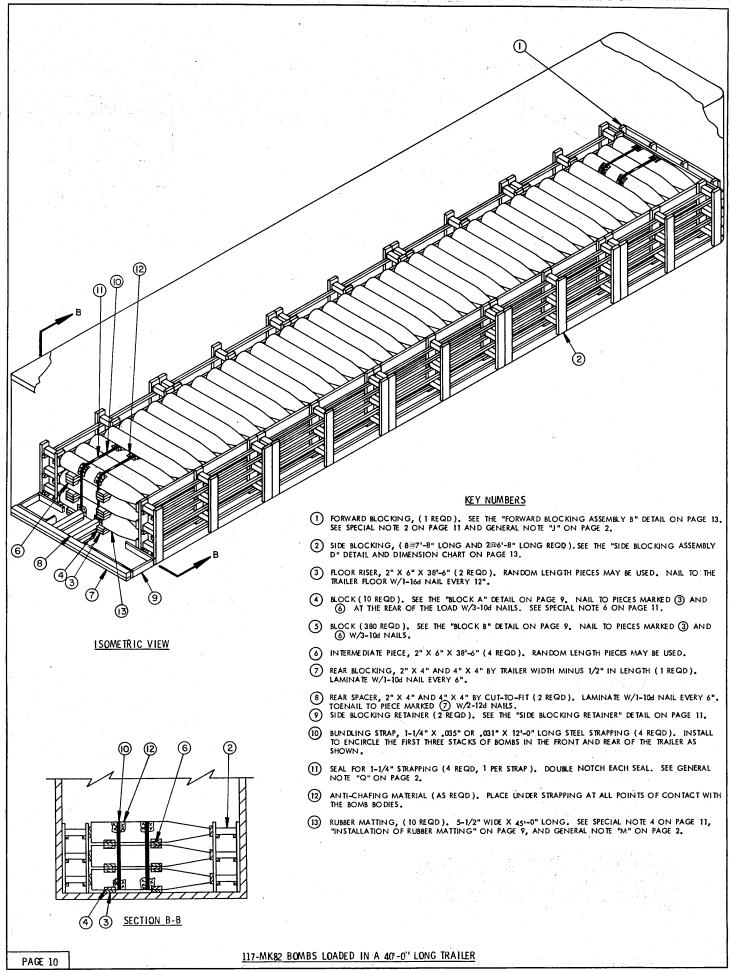
BLOCK B
SEE CHART ABOVE FOR DIM "L".

NAIL OR STAPLE RUBBER MATTING
TO FLOOR RISER, INTERMEDIATE PIECE,
BLOCK A, AND BLOCK B AS NECESSARY
TO SECURE. SEE GENERAL NOTE "M"
ON PAGE 2.

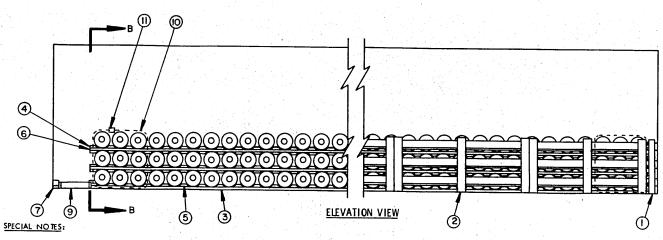


INSTALLATION OF RUBBER MATTING
CORRUGATED RUBBER MATTING AS SPECIFIED WITHIN THE MATERIAL
SPECIFICATIONS ON PAGE 2 MUST BE ATTACHED TO THE FLOOR RISERS,
INTERMEDIATE PIECES, BLOCKS A AND B WHEREVER THEY CONTACT
THE BOMB BODIES. THE MATTING SHALL BE SECURED IN SUCH A
MANNER SO AS TO PREVENT IT FROM BECOMING DISLODGED DURING
SHIPMENT.

<u>DETAILS</u>

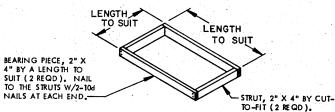


SMCAC FORM 6, I NOV 85



- A 117-UNIT LOAD OF 500-POUND MK82 BOMB BODIES IS SHOWN IN A 40'-0" LONG VAN TRAILER WITH INSIDE DIMENSIONS OF 39'-6" LONG BY 7'-6" WIDE. WIDER OR NARROWER TRAILERS MAY BE USED.
- 2. A TRAILER WITH ROUNDED CORNERS AT THE FORWARD END IS SHOWN IN THE LOAD ON PAGE 10. IF TRAILER BEING USED HAS SQUARE CORNERS, OMIT THE FORWARD BLOCKING, PIECE MARKED ①, REDUCE THE LENGTH OF THE FLOOR RISER AND INTERMEDIATE PIECE TO 38'-O" LONG AND PLACE THE FIRST STACK OF BOMBS DIR-ECTLY AGAINST THE FRONT WALL OF THE TRAILER.
- 3. THE QUANTITY OF BOMB BODIES SHIPPED MAY BE REDUCED AS NECESSARY BY OMITTING STACKS OR LAYERS OF BOMBS AND ADJUSTING THE DUNNAGE REQUIREMENTS.
- 4. RUBBER MATTING, DESCRIBED WITHIN GENERAL NOTE "M" ON PAGE 2 AND SHOWN ON PAGE 9, IS TO BE USED TO PROTECT THE SPECIAL PAINTED FINISH AND PREVENT DAMAGE TO THE BOME BODIES. IN ADDITION, CARE MUST BE EXERCISED DURING LOADING AND UNLOADING OPERATIONS. SEE SPECIAL NOTE 5 ON PAGE 5.
- SEE THE "NAILED-HEADER" METHOD ON PAGE 22 FOR ALTERNATIVE REAR BLOCKING PROCEDURES.
- 6. TWO "BLOCK A'S" ADJACENT TO THE "SIDE BLOCKING RETAINERS", PIECES MARKED

  9 MUST BE REDUCED FROM 6" LONG TO 3" LONG AND NAILED W/2-104 NAILS.



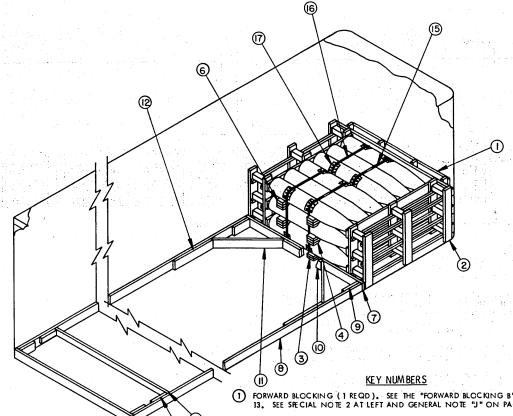
# SIDE BLOCKING RETAINER

THE ABOVE ASSEMBLY MUST BE FABRICATED SO AS TO PROVIDE A TIGHT FIT BETWEEN THE SIDE BLOCKING ASSEMBLY AND THE REAR BLOCKING. THE LENGTH OF THE ABOVE ASSEMBLY SHALL BE SO THAT THE ASSEMBLY FITS BETWEEN THE TRAILER SIDEWALL AND THE FLOOR RISER, PIECE MARKED ③.

LOA	D A	S	SHO	WN

ITEM	QUANTITY	WEIGHT (APPROX)
500 LB BOMB	117	35,217 LBS
	TOTAL WEIGHT -	37-746 LRS

LUMBER	LINEAR FEET	BOARD FEET
2" X 2"	448	149
2" X 4"	42	28
2" X 6"	902	902
4" X 4"	90	120
NAILS	NO. REQD	POUNDS
10d (3")	1,931	29-3/4
12d (3-1/4")	360	6
16d (3-1/2")	76	1-1/2
TEEL STRAPPING, 1-1/4	" X .035" 48'	REQD 7 LB
TEEL STRAPPING, 1-1/4 EAL FOR 1-1/4" STRAPP	" X .035" 48'	REQD 7 L8



# ISOMETRIC VIEW

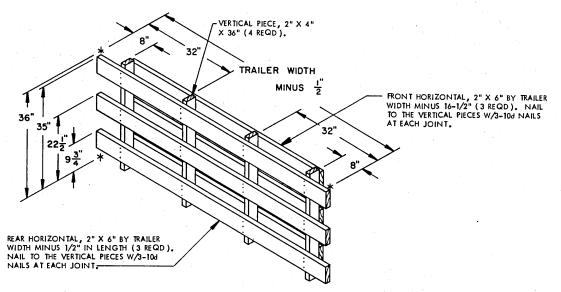
(13)

- AN 18-UNIT LOAD IS SHOWN. THESE OUTLOADING PROCEDURES DEPICT THE USE OF "K-BRACE" TYPE BLOCKING IN A 71-6" WIDE (INSIDE DIMENSION)
- IF THE TRAILER BEING LOADED HAS SQUARE CORNERS AT THE FORWARD END, OMIT THE FORWARD BLOCKING, PIECE MARKED (1), REDUCE THE LENGTH OF THE FLOOR RISER, AND INTERMEDIATE PIECES, PIECES MARKED (3) AND (6) BY THREE INCHES (3\*) AND POSITION SO THAT THE BOMB BODIES CONTACT THE FRONT WALL OF THE TRAILER.
- THE DEPICTED "K-BRACE" BLOCKING WILL RETAIN A MAXIMUM OF 20,000 POUNDS.
- RUBBER MATTING, DESCRIBED WITHIN GENERAL NOTE "M" ON PAGE 2 AND SHOWN ON PAGE 9, IS TO BE USED TO PROTECT THE SPECIAL PAINTED FINISH AND PREVENT DAMAGE TO THE BOMB BODIES. IN ADDITION, CARE MUST BE EXERCISED DURING LOADING AND UNLOADING OPERATIONS. SEE SPECIAL
- NOTE 5 ON PAGE 5.

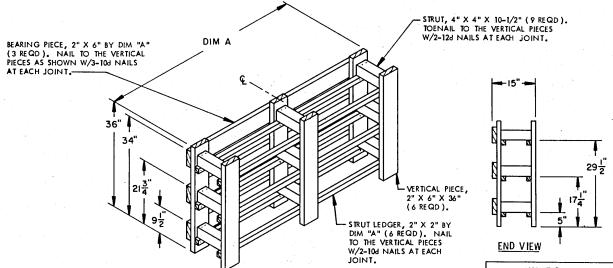
  DEPENDING ON THE NUMBER OF STACKS OF BOMB BODIES BEING LOADED,
  EACH OF THE SIDE STRUTS, PIECES MARKED (B), MAY NEED TO BE FORMED
  FROM MORE THAN ONE PIECE OF MATERIAL. IF SUCH IS THE CASE, THE
  SIDE STRUTS MUST BE SPLICED. SPLICING CAN BE ACCOMPLISHED BY CENTERING A 2" X 6" X 24" PIECE ON THE JOINT OF THE SIDE STRUTS AND NAILING IT TO THE SIDE STRUTS W/4-10d NAILS AT EACH END.
- SEE THE "NAILED-HEADER" METHOD ON PAGE 22 FOR ALTERNATIVE REAR BLOCKING PROCEDURES.
- ALL LTL LOADS, REGARDLESS OF THEIR SIZE, REQUIRE ONE STRUT BRACE POSITIONED NEAR THE REAR OF THE TRAILER AND NAILED TO THE SIDE STRUTS. IF THE SIDE STRUTS, PIECES MARKED (B), ARE LONGER THAN 7"-0", AN ADDITIONAL STRUT BRACE MUST BE APPLIED FOR EVERY 7"-0" OF SIDE STRUT LENGTH.

- FORWARD BLOCKING (1 REQD). SEE THE "FORWARD BLOCKING B" DETAIL ON PAGE 13. SEE SPECIAL NOTE 2 AT LEFT AND GENERAL NOTE "J" ON PAGE 2.
- 2 SIDE BLOCKING (2@68" LONG REQD). SEE THE "SIDE BLOCKING ASSEMBLY D" DETAIL AND DIMENSION CHART ON PAGE 13.
- FLOOR RISER, 2" X 6" X 72-1/4" (2 REQD). NAIL TO THE TRAILER FLOOR W/1-16d NAIL EVERY 12".
- 4 BLOCK (10 REQD). SEE THE "BLOCK A" DETAIL ON PAGE 9. NAIL TO PIECES MARKED 3 AND 6 W/3-10d NAILS. NOTE: TWO "BLOCK A"S ADJACENT TO THE HEADER, PIECE MARKED 7, MUST BE REDUCED FROM 6" LONG TO 3" LONG.
- (5) BLOCK (50 REQD). SEE THE "BLOCK B" DETAIL ON PAGE 9. NAIL TO PIECES MARKED
  (3) AND (6) W/3-10d NAILS.
- (6) INTERMEDIATE PIECE, 2" X 6" X 75-1/4" (4 REQD).
- 7) HEADER, 2" X 6" BY TRAILER WIDTH MINUS 1/2" IN LENGTH (2 REQD).
- (8) SIDE STRUT, 2" X 6" BY CUT-TO-FIT BETWEEN FORWARD AND REAR HEADERS, PIECES MARKED (7), (2 REQD).
- POCKET CLEAT, 2" X 6" X 12" (4 REQD). NAIL TO SIDE STRUT, PIECE MARKED (8), W/3-10d NAILS. TOENAIL TO THE ADJACENT HEADER, PIECE MARKED (7), W/3-12d
- (1) CENTER CLEAT, 2" X 6" X 30" (1 REQD). NAIL TO A HEADER, PIECE MARKED (2) , W/6-104 NAILS.
- DIAGONAL BRACE, 2" X 6" BY CUT-TO-FIT (2 REQD). DOUBLE BEVEL EACH END WITH 45° CUTS, INSTALL AT A 45° ANGLE AS SHOWN AND TOENAIL TO THE ADJACENT HEADER AND SIDE STRUT, PIECES MARKED (7) AND (8), W/2-16d NAILS AT
- (2) BACK-UP CLEAT, 2" X 6" X 30" (2 REQD). NAIL TO A SIDE STRUT, PIECE MARKED (8) , W/8-10d NAILS.
- (3) STRUT BRACE RETAINING CLEAT, 2" X 4" X 12" (AS REQD). NAIL TO A SIDE STRUT, PIECE MARKED (8) , W/3-10d NAILS.
- (4) STRUT BRACE, 2" X 4" BY TRAILER WIDTH MINUS 3" IN LENGTH (MINIMUM OF ONE REQUIRED). NAIL TO THE STRUT BRACE RETAINING CLEATS, PIECES MARKED (3), W/2-12d NAILS AT EACH END. SEE SPECIAL NOTE 7 AT LEFT.
- BUNDLING STRAP, 1-1/4" X .035" OR .031" X 12'-0" LONG STEEL STRAPPING (4 REQD) INSTALL TO ENCIRCLE 9 BOMBS AS SHOWN .
- SEAL FOR 1-1/4" STRAPPING, (4 REQD, 1 PER STRAP). DOUBLE NOTCH EACH SEAL. SEE GENERAL NOTE "Q" ON PAGE 2.
- ANTI-CHAFING MATERIAL (AS REQD). PLACE UNDER STRAPPING AT ALL POINTS OF CONTACT WITH THE BOMB BODIES.
- (8) RUBBER MATTING ( 10 REQD). 5-1/2" WIDE X 7'-1" LONG. SEE SPECIAL NOTE 4 AT LEFT, "INSTALLATION OF RUBBER MATTING" ON PAGE 9, AND GENERAL NOTE "M" ON PAGE 2.

TYPICAL LTL (18 BOMBS ) (500 LB MK82)



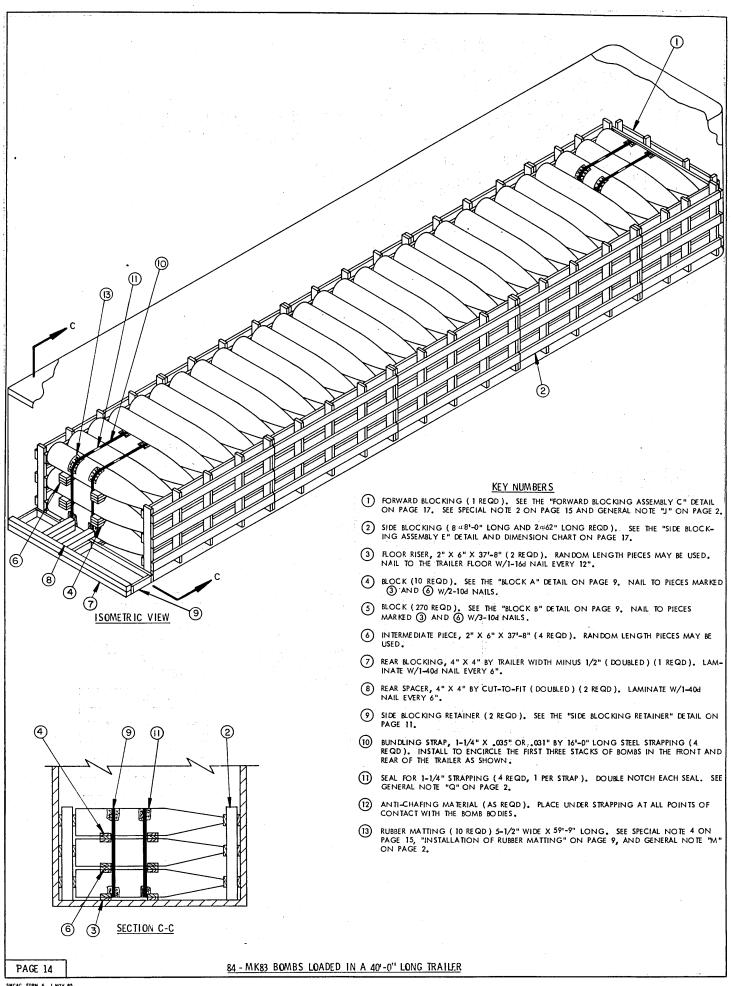
FORWARD BLOCKING ASSEMBLY B
THIS FORWARD BLOCKING ASSEMBLY IS APPLICABLE FOR
A 3-LAYER LOAD OF 500-POUND BOMB BODIES. IF
LESS THAN 3-LAYERS ARE TO BE SHIPPED, THE ASSEMBLY
MAY BE REDUCED IN HEIGHT ACCORDINGLY.

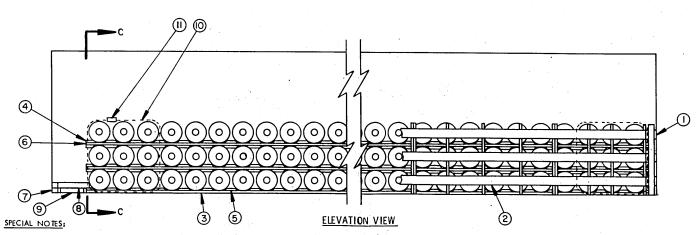


# SIDE BLOCKING ASSEMBLY D

THIS SIDE BLOCKING ASSEMBLY IS APPLICABLE FOR A 3-LAYER LOAD OF 500-POUND BOMB BODIES IN A 7'-6" WIDE (INSIDE DIMENSION) TRAILER. IF A WIDER OR NARROWER TRAILER IS USED, INCREASE OR DECREASE THE LENGTH OF THE STRUTS AS APPLICABLE. IF DESIRED, THE YERTICAL PIECES MAY BE NAILED TO THE STRUTS W/2-10d NAILS IN LEIU OF TOENALING THE STRUTS TO THE VERTICAL PIECES W/2-12d NAILS AS SHOWN.

CHART D		
NO. OF BOMBS LONG	DIMENSION "A"	
6	68"	
7	6'-8"	
8	7'-8"	





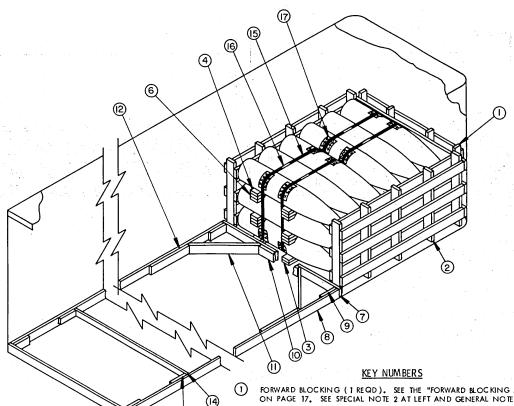
- AN 84-UNIT LOAD OF 1,000-POUND MK83 BOMB BODIES IS SHOWN IN A 40'-0" LONG VAN TRAILER WITH INSIDE DIMENSIONS OF 39'-6" LONG BY 7'-6" WIDE. TRAILERS OF OTHER SIZES MAY BE USED.
- 2. A TRAILER WITH ROUNDED CORNERS AT THE FORWARD END IS SHOWN IN THE LOAD ON PAGE 14. IF THE TRAILER BEING USED HAS SQUARE CORNERS, OMIT THE FORWARD BLOCKING, PIECE MARKED ①, REDUCE THE LENGTH OF THE FLOOR RISER AND INTERMEDIATE PIECE TO 37"-6" LONG AND PLACE THE FIRST STACK OF BOMBS DIRECTLY AGAINST THE FRONT WALL OF THE TRAILER.
- 3. THE QUANTITY OF BOMB BODIES SHIPPED MAY BE REDUCED AS NECESSARY BY OMITTING STACKS OR LAYERS OF BOMBS AND ADJUSTING THE DUNNAGE REQUIREMENTS.
- 4. RUBBER MATTING, DESCRIBED WITHIN GENERAL NOTE "M" ON PAGE 2 AND SHOWN ON PAGE 9, IS TO BE USED TO PROTECT THE SPECIAL PAINTED FINISH AND PREVENT DAMAGE TO THE BOMB BODIES. IN ADDITION, CARE MUST BE EXERCISED DURING LOADING AND UNLOADING OPERATIONS. SEE SPECIAL NOTE 5 ON PAGE 5.
- 5. SEE THE "NAILED-HEADER" METHOD ON PAGE 22 FOR ALTERNATIVE REAR BLOCKING PROCEDURES.

BILL OF MATERIAL			
LUMBER	LINEAR FEET	BOARD FEET	
2" X 4" 2" X 6" 4" X 4"	34 1,141 22	23 1,141 30	
NAILS	NO . REQD	POUNDS	
10d (3") 16d (3-1/2") 40d (5")	1,534 76 36	23-1/2 1-1/2 1-3/4	

STEEL STRAPPING, 1-1/4" X .035"	64"	REQD	9 LBS
SEAL FOR 1-1/4" STRAPPING			
RUBBER MAT, 1/4" X 5-1/2"			
ANTI-CHAFING MATERIAL	ΑS	REQD	NIL

# LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX
1,000 LB BOM DUNNAGE	1B 84	39,900 LBS 2,538 LBS
	TOTAL WEIGHT	42,438 LBS



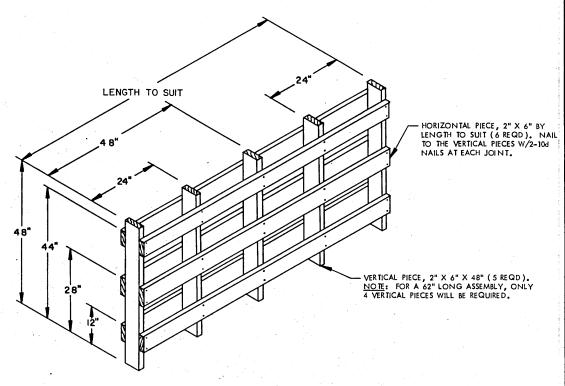
# ISOMETRIC VIEW

(3)

- AN 18-UNIT LOAD IS SHOWN. THESE OUTLOADING PROCEDURES DEPICT THE USE OF "K-BRACE" TYPE BLOCKING IN A 71-6" WIDE (INSIDE DIM-ENSION) VAN TRAILER.
- THE TRAILER SHOWN IN THE ABOVE VIEW HAS ROUNDED CORNERS, HOWEVER, IF THE TRAILER BEING LOADED HAS SQUARE CORNERS AT THE FORWARD END, OMIT THE FORWARD BLOCKING, PIECE MARKED (1), AND POSITION THE BOMB BODIES SO THAT THEY CONTACT THE FRONT WALL OF THE TRAILER.
- 3. THE DEPICTED "K-BRACE" BLOCKING WILL RETAIN A MAXIMUM OF 20,000 LBS.
- RUBBER MATTING, DESCRIBED WITHIN GENERAL NOTE "M" ON PAGE 2 AND SHOWN ON PAGE 9, IS TO BE USED TO PROTECT THE SPECIAL PAINTED FINISH AND PREVENT DAMAGE TO THE BOMB BODIES. IN ADDITION, CARE MUST BE EXERCISED DURING LOADING AND UNLOADING OPERATIONS.
- SEE SPECIAL NOTE 5 ON PAGE 5
  DEPENDING ON THE NUMBER OF STACKS OF\_BOMB BODIES BEING LOADED, EXPENDING ON THE NUMBER OF STACKS OF BOMB BODIES BEING LOADED, EACH OF THE SIDE STRUTS, PIECES MARKED (B), 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 6" X 24" PIECE ON THE JOINT OF THE SIDE STRUTS AND NAILING IT TO THE SIDE STRUTS W/4-10J NAILS AT EACH END.
- 6. SEE THE "NAILED-HEADER" METHOD ON PAGE 22 FOR ALTERNATIVE REAR BLOCKING PROCEDURES.
- ALL LTL LOADS, REGARDLESS OF THEIR SIZE, REQUIRE ONE STRUT BRACE POSITIONED NEAR THE REAR OF THE TRAILER AND NAILED TO THE SIDE STRUTS. IF THE SIDE STRUTS, PIECES MARKED (B), ARE LONGER THAN 7'-0", AN ADDITIONAL STRUT BRACE MUST BE APPLIED FOR EVERY 7'-0" OF SIDE STRUT LENGTH.

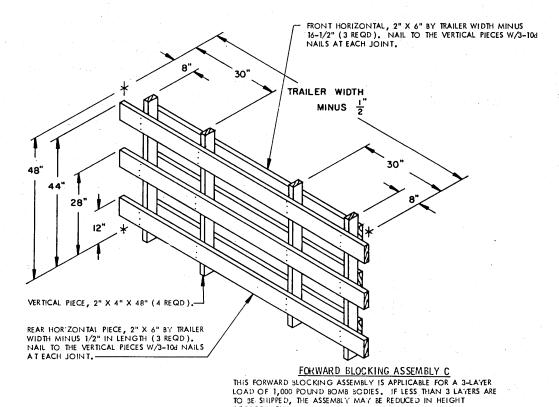
- FORWARD BLOCKING ( 1 REQD ). SEE THE "FORWARD BLOCKING ASSEMBLY C" DETAIL ON PAGE 17. SEE SPECIAL NOTE 2 AT LEFT AND GENERAL NOTE "J" ON PAGE 2.
- ② SIDE BLOCKING (2 @7'-10" LONG REGD ). SEE THE "SIDE BLOCKING ASSEMBLY E" DETAIL AND DIMENSION CHART ON PAGE 17.
- FLOOR RISER, 2" X 6" X 7'-10" ( 2 REQD ). NAIL TO THE TRAILER FLOOR W/1-16d NAIL EVERY 12".
- BLOCK (10 REQD). SEE THE "BLOCK A" DETAIL ON PAGE 9. NAIL TO PIECES MARKED 3 AND 6 W/2-10d NAILS.
- BLOCK (50 REQD). SEE THE "BLOCK B" DETAIL ON PAGE 9. NAIL TO PIECES MARKED 3 AND 3 W/5-104 NAILS.
- INTERMEDIATE PIECE, 2" X 6" X 7'-10" (4 REQD).
- (7)HEADER, 2" X 6" BY TRAILER WIDTH MINUS 1/2" IN LENGTH (2 REQD).
- SIDE STRUT, 2" X 6" BY CUT-TO-FIT BETWEEN FORWARD AND REAR HEADERS, PIECES MARKED  $\bigcirc$  (2 REQD).
- POCKET CLEAT, 2" X 6" X 12" (4 REQD). NAIL TO SIDE STRUT, PIECE MARKED 8 W/3-10d NAILS. TOENAIL TO THE ADJACENT HEADER, PIECE MARKED 7 W/3-12d
- (10) CENTER CLEAT, 2" X 6" X 30" (1 REQD). NAIL TO A HEADER, PIECE MARKED 7 , W/6-10d NAILS.
- DIAGONAL BRACE, 2" X 6" BY CUT-TO-FIT ( 2 REQD). DOUBLE BEVEL EACH END WITH 45° CUTS, INSTALL AT A 45° ANGLE AS SHOWN AND TOENAIL TO THE ADJACENT HEADER AND SIDE STRUT, PIECES MARKED 7 AND 8W/2-16d NAILS AT EACH END.
- BACK-UP CLEAT, 2" X 6" X 30" (2 REQD). NAIL TO A SIDE STRUT, PIECE MARKED  $\textcircled{\textbf{8}}$  , W/8-10d NAILS.
- STRUT BRACE RETAINING CLEAT, 2" X 4" X 12" (AS REQD). NAIL TO A SIDE STRUT PIECE MARKED (B) , W/3-10d NAILS.
- STRUT BRACE, 2" X 4" BY TRAILER WIDTH MINUS 3" IN LENGTH (MINIMUM OF ONE REQUIRED). NAIL TO THE STRUT BRACE RETAINING CLEATS, PIECES MARKED (3), W/2-12d NAILS AT EACH END. SEE SPECIAL NOTE 7 AT LEFT.
- BUNDLING STRAP, 1-1/4" X .035" OR .031" X 161-0" LONG STEEL STRAPPING (4 REQD) INSTALL TO ENCIRCLE 9 BOMBS AS SHOWN.
- SEAL FOR 1-1/4" STRAPPING (4 REQD, 1 PER STRAP). DOUBLE NOTCH EACH SEAL. SEE GENERAL NOTE "Q" ON PAGE 2.
- ANTI-CHAFING MATERIAL (AS REQD). PLACE UNDER STRAPPING AT ALL POINTS OF CONTACT WITH THE BOMB BODIES.
- RUBBER MATTING ( 10 REQD) 5-1/2" WIDE X 8'-3" LONG. SEE SPECIAL NOTE 4 AT LEFT, "INSTALLATION OF RUBBER MATTING" ON PAGE 9, AND GENERAL NOTE "M" ON PAGE 2.

TYPICAL LTL (18 BOMBS ) (1,000 LB MK83 )



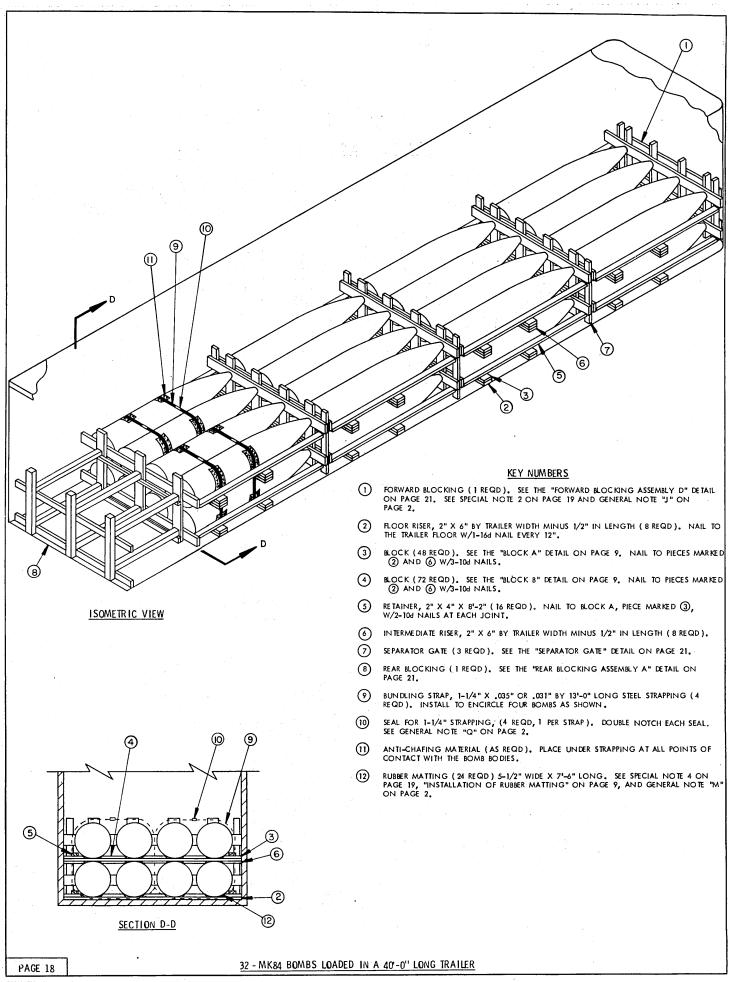
# SIDE BLOCKING ASSEMBLY E

THIS SIDE BLOCKING ASSEMBLY IS APPLICABLE FOR A 3-LAYER LOAD OF 1,000 POUND BOMB BODIES IN A 71-6" WIDE (INSIDE DIMENSION) TRAILER. IF A WIDER OR NARROWER TRAILER IS USED, INCREASE OR DECREASE THE WIDTH OF THE VERTICAL PIECES AS APPLICABLE.



DETAILS

ACCORDINGLY.



- A 32-UNIT LOAD OF 2,000 POUND MK84 BOMB BODIES IS SHOWN IN A 40'-0" LONG VAN TRAILER WITH INSIDE DIMENSIONS OF 39'-6" LONG BY 7'-6" WIDE. TRAILERS OF OTHER SIZES MAY BE USED.
- 2. A TRAILER WITH ROUNDED CORNERS AT THE FORWARD END IS SHOWN IN THE LOAD ON PAGE 18. IF THE TRAILER BEING USED HAS SQUARE CORNERS, REPLACE THE FORWARD BLOCKING ASSEMBLY, PIECE MARKED (1), WITH A SEPARATOR GATE, PIECE MARKED (2).
- 3. THE QUANTITY OF BOMB BODIES SHIPPED MAY BE REDUCED AS NECESSARY BY OMITTING STACKS OR THE SECOND LAYER OF BOMBS AND ADJUSTING THE DUNNAGE REQUIREMENTS.
- 4. RUBBER MATTING, DESCRIBED WITHIN GENERAL NOTE "M" ON PAGE 2 AND SHOWN ON PAGE 9, IS TO BE USED TO PROTECT THE SPECIAL PAINTED FINISH AND PREVENT DAMAGE TO THE BOMB BODIES. IN ADDITION, CARE MUST BE EXERCISED DURING LOADING AND UNLOADING OPERATIONS. SEE SPECIAL NOTE 5 ON PAGE 5.
- NOTE 5 ON PAGE 5.

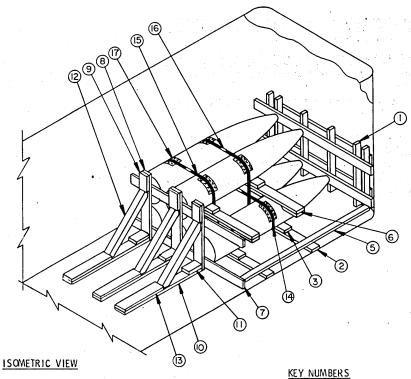
  SEE THE "NAILED-HEADER" METHOD ON PAGE 22 FOR ALTERNATIVE REAR BLOCK-IN BLOCKING PROCEDURES.

	BILL OF MATERIAL	
LUMBER	LINEAR FEET	BOARD FEET
2" X 2" 2" X 4" 2" X 6" 4" X 4"	6 194 363 10	2 130 363 14
NAILS	NO, REQD	POUNDS
10d (3") 12u (3-1/4") 16d (3-1/2")	742 24 56	11-1/4 1/2

STEEL STRAPPING, 1-1/4" X .035" 52'			
SEAL FOR 1-1/4" STRAPPING 4	RE QD	 1/2	LB
RUBBER MAT, 1/4" X 5-1/2"180'	RE QD	 35	LBS
ANTI-CHAFING MATERIAL AS	RE QD		NIL

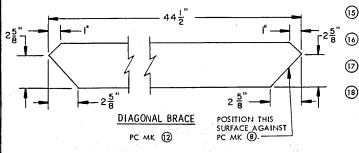
# LOAD AS SHOWN

•	ITEM	QUANTITY	WEIGHT ( APPROX
		MB 32	
	•	TOTAL WEIGHT	31,474 LBS

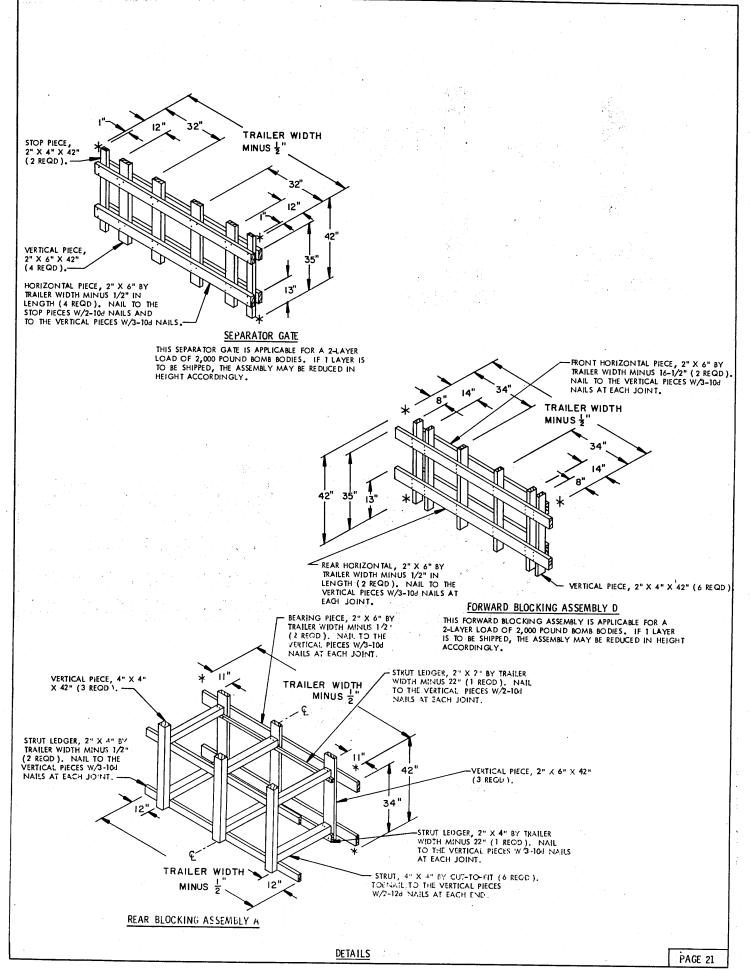


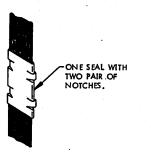
- A 5-UNIT LOAD OF 2,000 POUND BOMB BODIES IS SHOWN. THESE OUT-LCADING PROCEDURES DEPICT THE USE OF "K-BRACE" TYPE BLOCKING IN A 7'-6" WIDE (INSIDE DIMENSION) VAN TRAILER.
- THE DEPICTED "KNEE BRACE" BLOCKING WILL RETAIN A MAXIMUM OF 18,000 POUNDS.
- 3. A TRAILER WITH ROUNDED CORNERS AT THE FORWARD END IS SHOWN IN THE LOAD VIEW. IF THE TRAILER BEING USED HAS SQUARE CORNERS, REPLACE THE FORWARD BLOCKING ASSEMBLY, PIECE MARKED ①, WITH A SEPARATOR GATE AS DETAILED ON PAGE 21.
- RUBBER MATTING, DESCRIBED WITHIN GENERAL NOTE "M" ON PAGE 2 AND SHOWN ON PAGE 9, IS TO BE USED TO PROTECT THE SPECIAL PAINTED FINISH AND PREVENT DAMAGE TO THE BOMB BODIES. IN ADDITION, CARE MUST BE EXERCISED DURING LCADING AND UNLOADING OPERATIONS.

- FORWARD BLOCKING (1 REQD). SEE THE "FORWARD BLOCKING D" DETAIL ON PAGE 21. SEE SPECIAL NOTE 3 AT LEFT AND GENERAL NOTE "J" ON PAGE 2.
- FLOOR RISER, 2" X 6" BY TRAILER WIDTH MINUS 1/2" IN LENGTH ( 2 REQD ). NAIL TO THE TRAILER FLOOR W/1-16d NAIL EVERY 12".
- BLOCK ( 12 REQD ). SEE THE "BLOCK A" DETAIL ON PAGE 9. NAIL TO PIECES MARKED 2 AND 3 W/3-10d NAILS. (3)
- BLCCK ( 10 REQD ). SEE THE "BLOCK B" DETAIL ON PAGE 9. NAIL TO PIECES MARKED 2 AND 3 -10d NAILS.
- (3) RETAINER, 2" X 4" X 8'-2" (3 REQD). NAIL TO PIECE MARKED  $\ensuremath{\mathfrak{J}}$  AND/OR  $\ensuremath{\mathfrak{J}}$  W/2-10d NAILS AT EACH JOINT.
- 6 IN TERMEDIATE RISER, 2" X 6" X 68" ( 2 REQD ).
- HEADER, 2" X 6" BY TRAILER WIDTH MINUS 1/2" IN LENGTH (2 REQD). NAIL TO THE VERTICAL PIECES W/3-10d NAILS AT EACH JOINT. VERTICAL PIECE, 2" X 6" BY LADING HEIGHT PLUS 3" (3 REQD). 7
- 3
- $\odot$ HOLD-DOWN CLEAT, 2" X 6" X 9" (3 REQD ). NAIL TO THE VERTICAL PIECES W/3-10d
- (10) FLOOR CLEAT, 2" X 6" X 61-1/2" (3 REQD ). NAIL TO THE TRAILER FLOOR W/8-10d
- ⑾ SUPPORT CLEAT, 2" X 6" X 18" (3 REQD). NAIL TO THE FLOOR CLEAT W/4-10d NAILS AND TOENAIL TO THE VERTICAL PIECE W/2-12d NAILS.
- DIAGONAL BRACE, 4" X 4" X 44-1/2" (3 REQD ). TOENAIL TO THE VERTICAL PIECE (12) AND THE FLOOR CLEAT W/2-12d NAILS AT EACH END. SEE THE "DIAGONAL BRACE"
- (13) BACK-UP CLEAT, 2" X 6" X 30" (3 REOD). NAIL TO THE FLOOR CLEAT W/7-10d NAILS.
- LATERAL BUNDLING STRAP, 1-1/4" X .035" OR .031" X 10'-0" LONG STEEL STRAPPING (2 RECD ). ENCIRCLE 2 BOMBS IN THE FIRST LAYER AS SHOWN ABOVE.  $\odot$ 
  - BUNDLING STRAP , 1–1/4" X .035" CR .031" X 13'-0" LONG STEEL STRAPPING (2 REQD ). ENCIRCLE 4 BOMBS AS SHOWN IN THE VIEW ABOVE.
  - SEAL FOR 1-1/4' STRAPPING (4 REQD, 1 PER STRAP) DOUBLE NOTCH EACH SEAL. SEE GENERAL NOTE "O" ON PAGE 2.
  - ANTI-CHAFING MATERIAL (AS REQD). PLACE UNDER STRAPPING AT ALL POINTS OF CONTACT WITH BOMS BODIES.
  - Rubber matting (4 reod ) 5-1/2" wide x 7'-0" long. See special note 4 at left, "installation of Rubber matting" on page 9, and general note "m" on page



TYPICAL LTL (5 BOMBS ) (2,000 LB MK84)





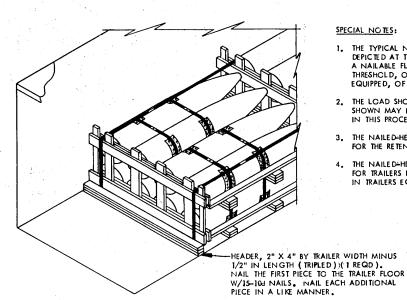


METHOD OF SECURING A STRAP JOINT WHEN USING A NOTCH-TYPE SEALER.



# STRAP JOINT B

METHOD OF SECURING A STRAP JOINT WHEN USING A CRIMP-TYPE SEALER.



# SPECIAL NOTES:

- 1. THE TYPICAL NAILED-HEADER METHOD OF REAR BLOCKING DEPICTED AT THE LEFT CAN ONLY BE USED IN TRAILERS HAVING A NAILABLE FLOOR AREA BETWEEN THE LADING AND THE METAL THRESHOLD, OR A THRESHOLD PLATE IF THE TRAILER IS SO EQUIPPED, OF AT LEAST THREE (3) INCHES.
- THE LOAD SHOWN IS TYPICAL, THE NAILED-HEADER METHOD SHOWN MAY BE USED FOR ANY OF THE LOADS AS SHOWN WITH-IN THIS PROCEDURAL DRAWING.
- 3. THE NAILED-HEADER METHOD OF REAR BLOCKING IS ADEQUATE FOR THE RETENTION OF THE MAXIMUM WEIGHT LOAD.
- 4. THE NAILED-HEADER METHOD, ALTHOUGH DESIGNED ESPECIALLY FOR TRAILERS HAVING ROLL-UP TYPE DOORS, MAY ALSO BE USED IN TRAILERS EQUIPPED WITH HINGED DOORS.

NATLED-HEADER METHOD

DETAILS

PAGE 22

SMCAC FORM 6, I NOV 85