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DATE 11-10-96

LOADING AND BRACING* IN END OPENING ISO CONTAINERS OF PROPELLING CHARGES PACKED IN CYLINDRICAL METAL CONTAINERS

PA37 SERIES CONTAINERS

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* LOADING AND BRACING SPECIFICATIONS SET FORTH WITHIN THIS DRAWING ARE APPLICABLE TO LOADS THAT ARE TO BE SHIPPED BY TRAILER/CONTAINER-ON-FLATCAR (T/COFC) RAIL CARRIER SERVICE. THESE SPECIFICATIONS MAY ALSO BE USED FOR LOADS THAT ARE TO BE MOVED BY MOTOR OR WATER CARRIERS.

NOTE: THIS DRAWING
SUPERSEDES THE
PORTIONS OF
AMC DRAWING
19-48-4154-15PM1002,
DATED MARCH 1982,
THAT PERTAIN TO THE
PA37 CONTAINER.

DO NOT SCALE

U.S. ARMY MATERIEL COMMAND DRAWING			
APPROVED, U.S. ARMY INDUSTRIAL OPERATIONS COMMAND <i>Daniel E. Stechurich</i>	DRAFTSMAN	TECHNICIAN	ENGINEER L. FIEFFER
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NOVEMBER 1996			
	CLASS	DIVISION	DRAWING
	19	48	4154/ 9
			FILE 15PM1002

GENERAL NOTES

(GENERAL NOTES CONTINUED)

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR 740-1 AND AUGMENTS TM 743-200-1 (CHAPTER 5).
- B. THE SPECIFIED OUTLOADING PROCEDURES ARE APPLICABLE TO LOADS OF PROPELLING CHARGES PACKED IN PA37 SERIES CYLINDRICAL METAL CONTAINERS. SUBSEQUENT REFERENCE TO PALLET UNIT HEREIN MEANS THE PALLET UNIT WITH AMMUNITION ITEMS. SEE PAGES 3 THROUGH 5 AND AMC DRAWING 19-48-4042A/9-20PM1001 FOR DETAILS OF THE PALLET UNITS. CAUTION: REGARDLESS OF THE QUANTITY OF CONTAINERS TO BE SHIPPED, THE "MAXIMUM GROSS WEIGHT" OF THE END OPENING ISO CONTAINER MUST NOT BE EXCEEDED.
- C. THE LOAD AS SHOWN IS BASED ON A 4,700 POUND 20' LONG BY 8' WIDE BY 8'-6" HIGH END OPENING ISO CONTAINER WITH INSIDE DIMENSIONS OF 19'-4" LONG BY 92" WIDE BY 93" HIGH, WITH A MAXIMUM GROSS WEIGHT OF 52,910 POUNDS. OLDER/OTHER CONTAINERS MAY HAVE A TOTAL INSIDE HEIGHT OF 95", BUT A CLEAR HEIGHT UNDER THE ROOF BOWS OF 93". VERIFY INSIDE CONTAINER HEIGHT PRIOR TO FABRICATING DUNNAGE. THE LOAD IS DESIGNED FOR TRAILER/CONTAINER-ON-FLATCAR (T/COFC) SHIPMENT, HOWEVER, THE LOAD AS DESIGNED CAN ALSO BE MOVED BY OTHER SURFACE MODES OF TRANSPORT. NOTICE: OTHER CONTAINERS OF THE SAME DESIGN CONFIGURATION CAN BE USED.
- D. WHEN LOADING PALLET UNITS, THEY ARE TO BE POSITIONED SO AS TO ACHIEVE A TIGHT LOAD (TIGHT AGAINST THE DUNNAGE ASSEMBLIES). THE UNBLOCKED SPACE ACROSS THE WIDTH OF A LOAD BAY IS NOT TO EXCEED 1-1/2". EXCESSIVE SLACK CAN BE ELIMINATED FROM A LOAD BY LAMINATING ADDITIONAL PIECES OF APPROPRIATE THICKNESS TO THE VERTICAL PIECES ON THE CENTER FILL ASSEMBLIES. NAIL EACH ADDITIONAL PIECE W/1 APPROPRIATELY SIZED NAIL EVERY 12". ADDITIONALLY, THE THICKNESS AND/OR QUANTITY OF THE VERTICAL OR HORIZONTAL PIECES IN THE CENTER FILL ASSEMBLIES MAY BE ADJUSTED AS REQUIRED TO FACILITATE VARIANCE IN THE SIZE OF THE PALLET UNIT.
- E. DUNNAGE LUMBER SPECIFIED IS OF NOMINAL SIZE. FOR EXAMPLE, 1" X 4" MATERIAL IS ACTUALLY 3/4" THICK BY 3-1/2" WIDE AND 2" X 6" MATERIAL IS ACTUALLY 1-1/2" THICK BY 5-1/2" WIDE.
- F. A STAGGERED NAILING PATTERN WILL BE USED WHENEVER POSSIBLE WHEN NAILS ARE DRIVEN INTO JOINTS OF DUNNAGE ASSEMBLIES 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.

(CONTINUED AT RIGHT)

- G. IN SOME CONTAINERS THERE IS A SLOT AT THE CORNERS OF THE FORWARD WALL. PIECES OF DUNNAGE MATERIAL MUST BE LAMINATED TO THE BUFFER PIECES ON THE FORWARD BLOCKING ASSEMBLY OR FORWARD STRUT ASSEMBLY TO PROVIDE A FLAT SURFACE FOR THE BUFFER PIECES. A PIECE OF 2" X 4", 2" X 3" OR A SPECIAL WIDTH PIECE CUT-TO-FIT CAN BE USED. THIS FILL PIECE WILL BE NAILED WITH ONE APPROPRIATELY SIZED NAIL EVERY 12". NOTE THAT SOME CONTAINERS ARE EQUIPPED WITH "TIE-BARS" IN THE CORNER SLOT, WHICH PRECLUDE THE USE OF A FULL HEIGHT FILL PIECE. WHEN "TIE-BARS" ARE PRESENT, THE FILL PIECE MUST BE INSTALLED IN SEGMENTS DESIGNED TO FIT BETWEEN THE "TIE-BARS" VERTICALLY. THE FILL PIECE(S) IS NOT REQUIRED WHEN THE CORNER PORTIONS OF THE CONTAINER FORWARD WALL ARE SMOOTH AND FLAT. DO NOT ALLOW ANY DUNNAGE ASSEMBLY TO CONTACT THE CONTAINER FORWARD WALL, ONLY THE CORNER POSTS OF THE CONTAINER SHOULD BE USED FOR FORWARD LONGITUDINAL BLOCKING.
- H. WHETHER A CONTAINER IS FULL OR IS LOADED WITH A REDUCED QUANTITY OF LADING UNITS, THE LENGTHWISE CENTER OF GRAVITY OF THE LOAD MUST BE WITHIN 12", IN EITHER DIRECTION, OF THE MID-POINT OF THE CONTAINER.
- J. CAUTION: DO NOT NAIL DUNNAGE MATERIAL TO THE CONTAINER WALLS OR FLOOR. ALL NAILING WILL BE WITHIN THE DUNNAGE.
- K. PORTIONS OF THE CONTAINER DEPICTED WITHIN THIS DRAWING, SUCH AS THE SIDEWALL, HAVE NOT BEEN SHOWN IN THE LOAD VIEWS FOR CLARITY PURPOSES.
- L. MAXIMUM LOAD WEIGHT CRITERIA:

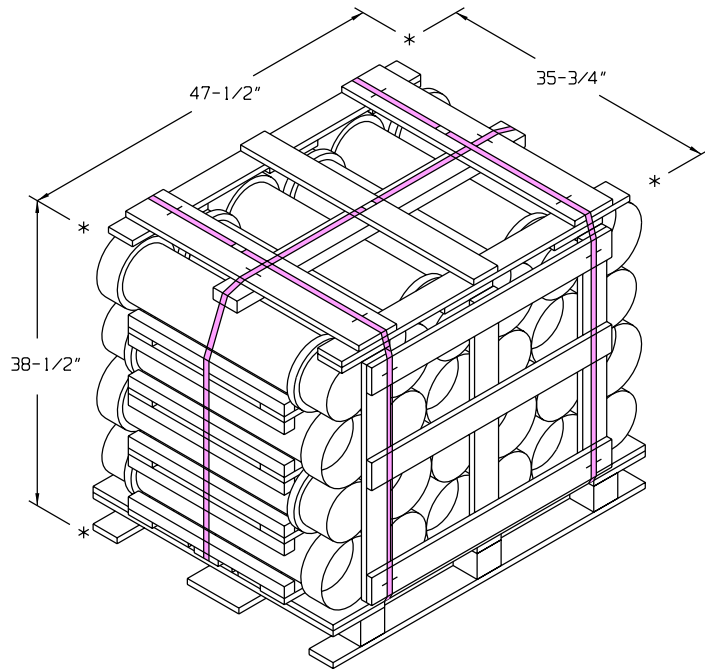
THE MAXIMUM LOAD WEIGHTS ARE CONTROLLED BY EQUIPMENT CAPABILITY FACTORS. ALTHOUGH THE HEAVIEST MAXIMUM LOADS ARE DELINEATED IN THE LOAD VIEWS, PROVISIONS ARE INCLUDED WITHIN THIS DRAWING SO THAT THE BASIC LOADS CAN BE ADJUSTED TO SATISFY A LESSER QUANTITY OF LADING UNITS. DEPENDING ON TRANSPORTATION ROUTING, IT MAY BE NECESSARY TO REDUCE THE LOAD WEIGHT TO SATISFY "WEIGHT LAWS" OF CERTAIN STATES. ALSO, IT MAY BE NECESSARY TO REDUCE THE LOAD WEIGHT TO SATISFY OTHER WEIGHT RESTRICTIONS IMPOSED ON THE INTERMODAL CONTAINER SYSTEM.

- M. REQUIREMENTS CITED WITHIN THE BUREAU OF EXPLOSIVES PAMPHLET 6C APPLY WHEN THE SHIPMENT MOVES BY TRAILER/CONTAINER-ON-FLATCAR (T/COFC). SPECIAL T/COFC NOTES FOLLOW:
 1. A LOADED CONTAINER MUST BE ON A CHASSIS EQUIPPED WITH TWO BOGIE ASSEMBLIES WHEN BEING MOVED IN TOFC SERVICE.
 2. THE LOAD LIMIT OF A T/COFC RAILCAR MUST NOT BE EXCEEDED, NOR WILL A CAR BE LOADED SO THAT THE TRUCK UNDER ONE END OF THE CAR CARRIES MORE THAN ONE-HALF OF THE LOAD LIMIT FOR THAT CAR.
- N. DURING INTRASTATE AND/OR INTERSTATE MOVES BY MOTOR CARRIER, A PROPER CHASSIS OR MODIFIED FLATBED TRAILER MUST BE USED TO PRECLUDE VIOLATION OF ONE OR MORE "WEIGHT LAWS" APPLICABLE TO THE STATE OR STATES INVOLVED.
- O. 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 25.4 MM AND ONE POUND EQUALS 0.454 KG.

MATERIAL SPECIFICATIONS

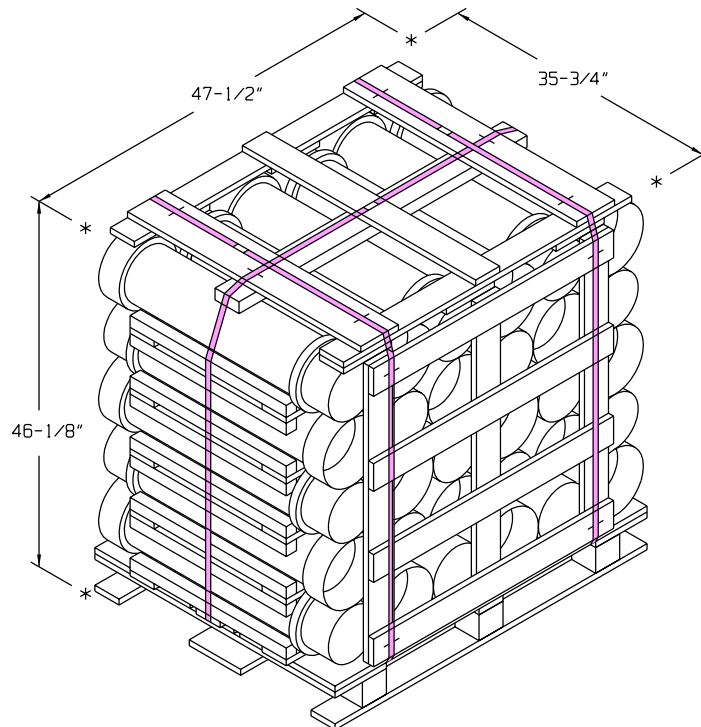
- LUMBER - - - - - : SEE TM 743-200-1 (DUNNAGE LUMBER) AND FED SPEC MM-L-751.
- NAILS - - - - - : FED SPEC FF-N-105; COMMON.
- PLYWOOD - - - - - : COMMERCIAL ITEM DESCRIPTION A-A-55057, TYPE A, CONSTRUCTION AND INDUSTRIAL PLYWOOD, INTERIOR WITH EXTERIOR GLUE, GRADE C-D. IF SPECIFIED GRADE IS NOT AVAILABLE, A BETTER INTERIOR OR AN EXTERIOR GRADE MAY BE SUBSTITUTED.
- WIRE, CARBON STEEL - - : ASTM A853; ANNEALED AT FINISH, BLACK OXIDE FINISH, .0800" DIA, GRADE 1006 OR BETTER.
- STAPLE, STRAP - - - : COMMERCIAL GRADE.
- STEEL, STRUCTURAL - - : ASTM A501, STEEL STRUCTURAL TUBING; AND ASTM A570, STEEL, STRIP, HOT-ROLLED, GRADE 36 (MINIMUM).

- P. THE QUANTITY OF PALLET UNITS SHOWN IN THE LOADS ON PAGES 6 THROUGH 16 MAY BE REDUCED FOR SHIPMENT, IF DESIRED. SEE THE "TYPICAL REDUCED LOAD" DETAILS ON PAGE 20.
 1. IF A LOAD IS REDUCED BY ONLY A SMALL AMOUNT (ONE, TWO, OR THREE LADING UNITS), LADING UNITS NORMALLY MAY BE ELIMINATED FROM THE CENTER OF THE LOAD.
 2. IF A LOAD IS REDUCED BY A LARGE AMOUNT (MORE THAN THREE LADING UNITS FOR A TWO-HIGH LOAD, OR MORE THAN ONE LADING UNIT FOR A ONE-HIGH LOAD), LADING UNITS SHOULD BE ELIMINATED AS REQUIRED AND THE TOTAL LOAD SHIFTED FORE OR AFT, AS NECESSARY, TO ACHIEVE A SYMMETRICAL WEIGHT DISTRIBUTION. THE DEPICTED PROCEDURES WILL BE FOLLOWED AS CLOSELY AS POSSIBLE, MAKING ONLY THOSE ADJUSTMENTS TO THE DUNNAGE WHICH ARE REQUIRED TO ACCOMMODATE THE NUMBER OF UNITS TO BE SHIPPED.



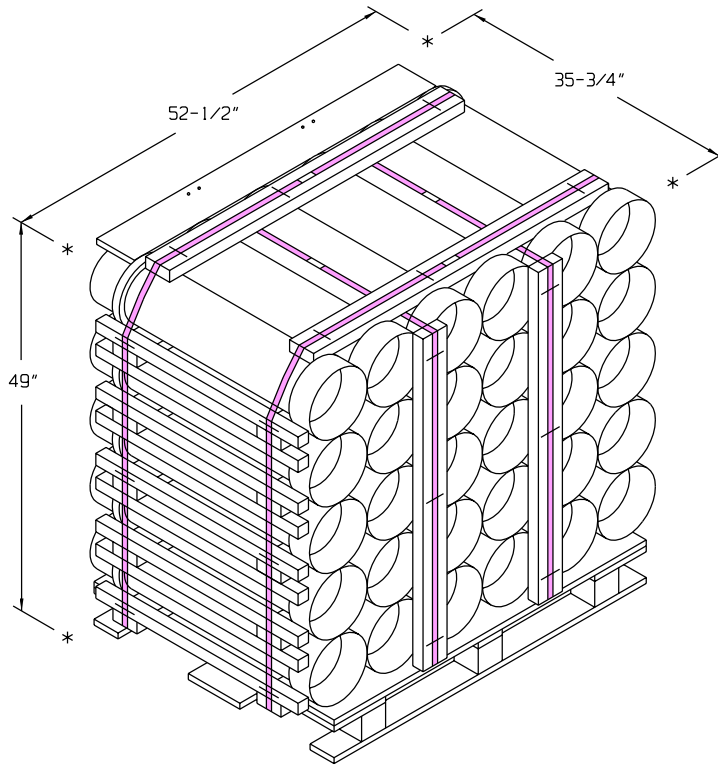
ALTERNATED CONTAINER PALLET UNIT (BASIC HEIGHT)

UNIT WEIGHT - - - - - 1,163 POUNDS (APPROX)
 CUBE - - - - - 37.8 CUBIC FEET
 REFER TO PAGES 6 AND 7 FOR OUTLOADING PROCEDURES.



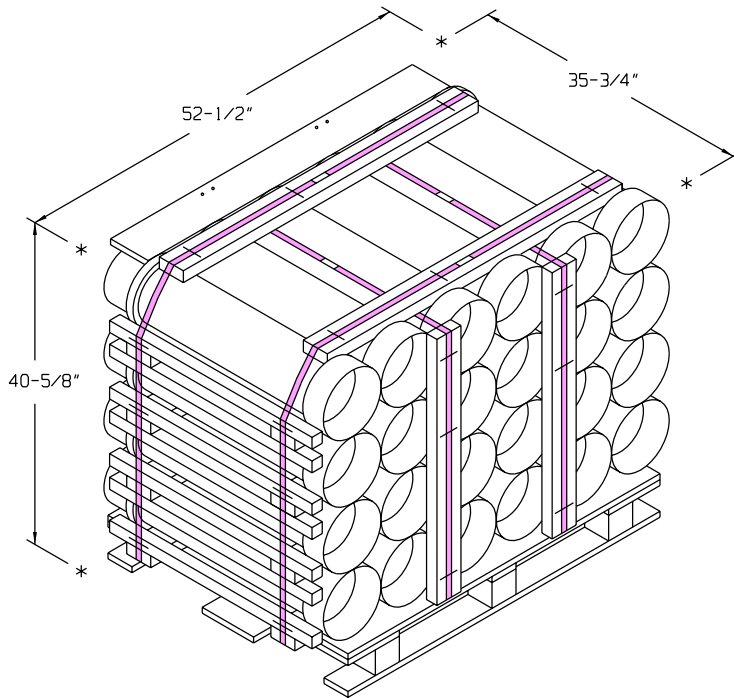
ALTERNATED CONTAINER PALLET UNIT (INCREASED HEIGHT)

UNIT WEIGHT - - - - - 1,432 POUNDS (APPROX)
 CUBE - - - - - 45.3 CUBIC FEET
 REFER TO PAGES 8 AND 9 FOR OUTLOADING PROCEDURES.



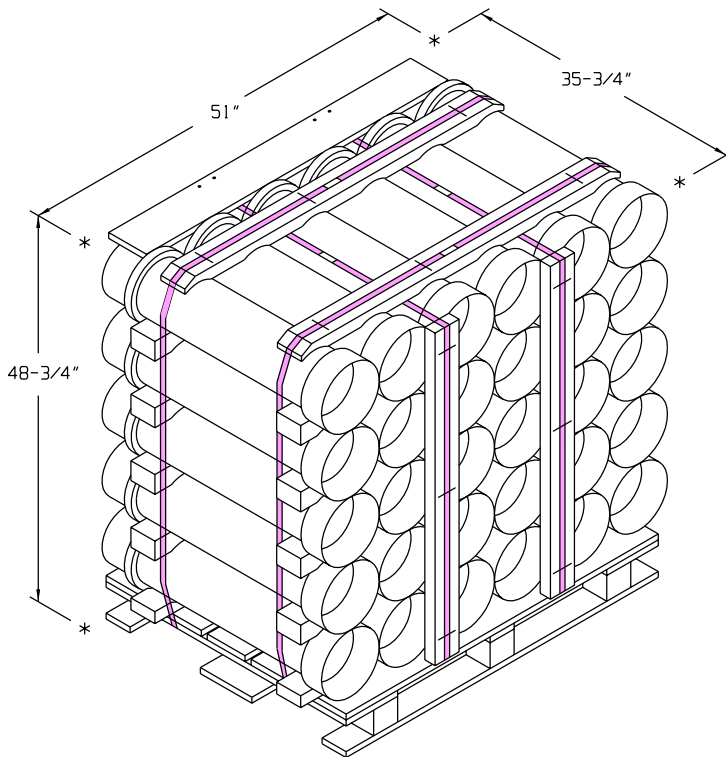
FLAT DUNNAGE PALLET UNIT (BASIC HEIGHT)

UNIT WEIGHT - - - - - 1,452 POUNDS (APPROX)
 CUBE - - - - - 53.2 CUBIC FEET
 REFER TO PAGES 10 AND 11 FOR OUTLOADING PROCEDURES.



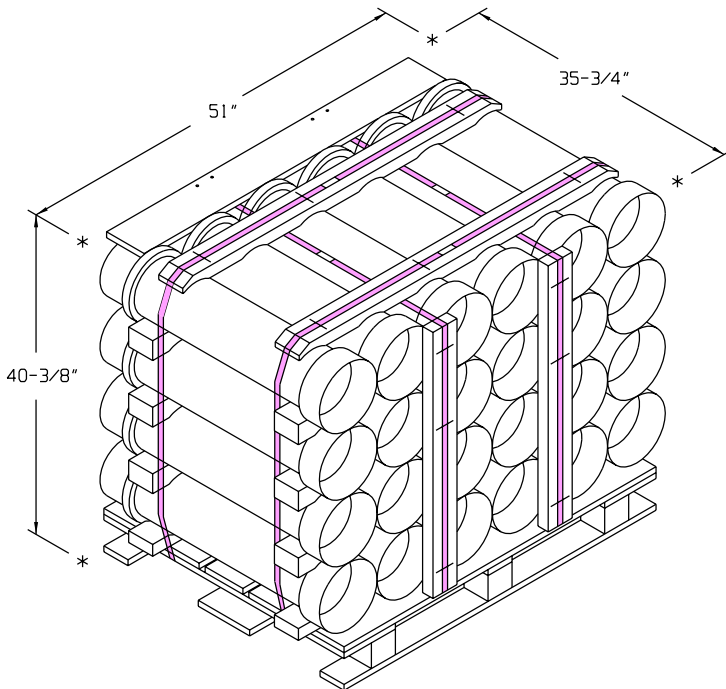
FLAT DUNNAGE PALLET UNIT (DECREASED HEIGHT)

UNIT WEIGHT - - - - - 1,195 POUNDS (APPROX)
 CUBE - - - - - 44.1 CUBIC FEET
 REFER TO PAGES 12 AND 13 FOR OUTLOADING PROCEDURES.



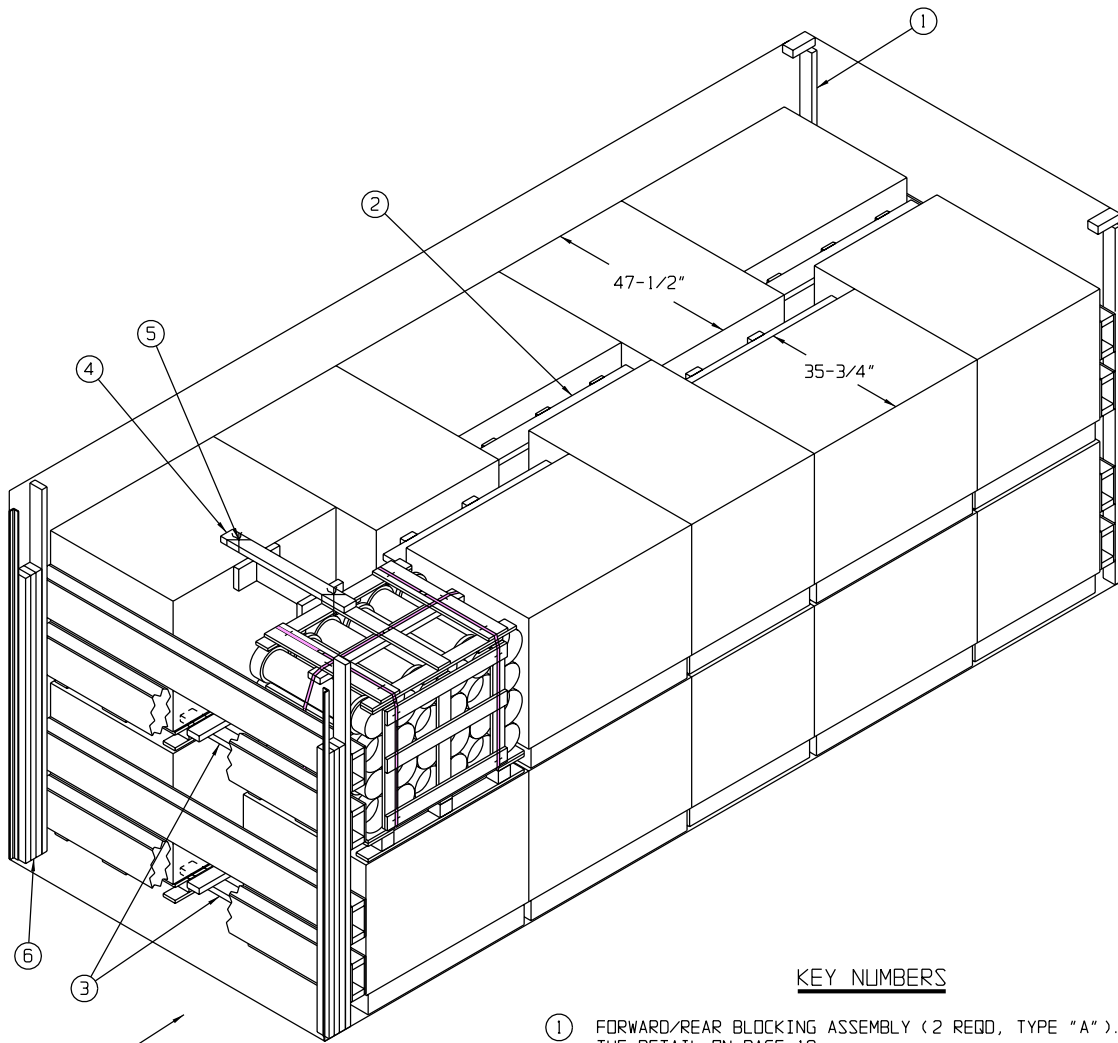
ROUTED DUNNAGE PALLET UNIT (BASIC HEIGHT)

UNIT WEIGHT - - - - - 1,429 POUNDS (APPROX)
 CUBE - - - - - 51.4 CUBIC FEET
 REFER TO PAGES 14 AND 15 FOR OUTLOADING PROCEDURES.



ROUTED DUNNAGE PALLET UNIT (DECREASED HEIGHT)

UNIT WEIGHT - - - - - 1,161 POUNDS (APPROX)
 CUBE - - - - - 42.6 CUBIC FEET
 REFER TO PAGES 16 AND 17 FOR OUTLOADING PROCEDURES.



REAR OF CONTAINER. →

ISOMETRIC VIEW

KEY NUMBERS

- ① FORWARD/REAR BLOCKING ASSEMBLY (2 REQD, TYPE "A"). SEE THE DETAIL ON PAGE 19.
- ② CENTER FILL ASSEMBLY A (4 REQD). SEE THE DETAIL ON PAGE 7.
- ③ ANTI-SWAY BRACE (2 REQD). SEE THE DETAIL ON PAGE 18.
- ④ TOP SPACER A (1 REQD). SEE THE DETAIL ON PAGE 7.
- ⑤ TIE WIRE, NO. 14 GAGE WIRE 24" LONG (2 REQD). INSTALL THE WIRE TO FORM A COMPLETE LOOP AROUND THE TOP SPACER AND THE TOP DUNNAGE ASSEMBLY OF THE PALLET UNIT. BRING ENDS TOGETHER AND TWIST TAUT.
- ⑥ FILL MATERIAL, 4" WIDE BY 72" LONG MATERIAL (AS REQD). NAIL THE FIRST PIECE TO THE REAR BLOCKING ASSEMBLY W/6 NAILS OF A SUITABLE SIZE (10d FOR 2" THICK MATERIAL). NAIL EACH ADDITIONAL PIECE TO THE PREVIOUS PIECE IN A SIMILAR MANNER. NOTE: MULTIPLE PIECES MAY BE LAMINATED TOGETHER FIRST AND THEN TOENAILED TO THE REAR BLOCKING ASSEMBLY. SEE "DETAIL A" AND "DETAIL B" ON PAGE 21.

BILL OF MATERIAL		
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	96	32
2" X 3"	12	6
2" X 4"	263	176
2" X 6"	99	99
NAILS	NO. REQD	POUNDS
6d (2")	544	3-1/4
10d (3")	238	3-3/4
PLYWOOD, 1/2"	96.06 SQ FT REQD	132.09 LBS
WIRE, NO. 14 GAGE	4' REQD	NIL

LOAD AS SHOWN

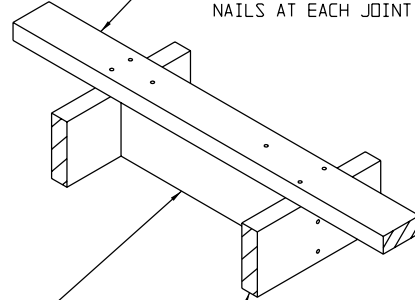
ITEM	QUANTITY	WEIGHT (APPROX)
PALLET UNIT	20	23,600 LBS
DUNNAGE		766 LBS
CONTAINER		4,700 LBS
TOTAL WEIGHT		28,726 LBS (APPROX)

RECOMMENDED SEQUENTIAL LOADING PROCEDURES

1. PREFABRICATE TWO FORWARD/REAR BLOCKING ASSEMBLIES (TYPE "A"), FOUR CENTER FILL ASSEMBLIES "A", AND ONE TOP SPACER "A".
2. INSTALL THE FORWARD BLOCKING ASSEMBLY.
3. LOAD FOUR PALLET UNITS AND INSTALL ONE CENTER FILL ASSEMBLY.
4. REPEAT STEP 3 THREE TIMES.
5. LOAD FOUR PALLET UNITS, AND INSTALL TWO ANTI-SWAY BRACES AND ONE TOP SPACER WITH TIE WIRE.
6. INSTALL THE REAR BLOCKING ASSEMBLY.
7. INSTALL THE FILL MATERIAL.

SPACER PIECE, 2" X 6" BY DISTANCE BETWEEN LATERALLY ADJACENT PALLET UNITS MINUS 3" (REF: 17-1/2") (1 REQD).

RETAINER PIECE, 2" X 4" X 36" (1 REQD). CENTER ON THE SPACER PIECE AND NAIL TO THE BUFFER PIECE AND SPACER PIECE W/2-10d NAILS AT EACH JOINT.



BUFFER PIECE, 2" X 6" X 12" (2 REQD). NAIL TO THE SPACER PIECE W/2-10d NAILS.

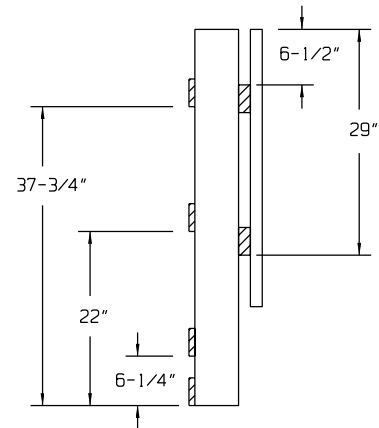
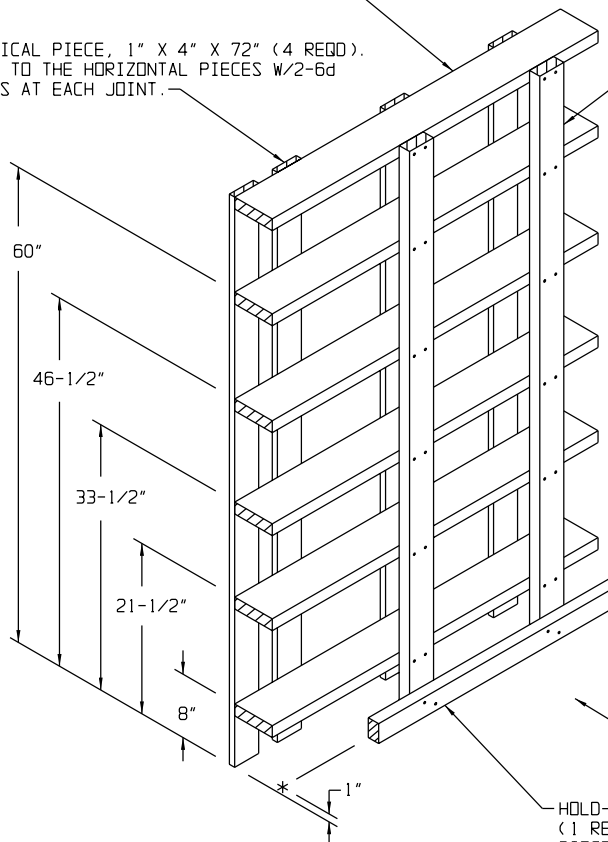
TOP SPACER A

(FOR USE WITH ALTERNATED CONTAINER PALLET UNITS.)

HORIZONTAL PIECE, 2" X 6" X 47-1/2" (6 REQD). SEE THE NOTE BELOW.

VERTICAL PIECE, 1" X 4" X 72" (4 REQD). NAIL TO THE HORIZONTAL PIECES W/2-6d NAILS AT EACH JOINT.

VERTICAL PIECE, 2" X 4" X 72" (2 REQD). NAIL TO THE HORIZONTAL PIECES W/2-10d NAILS AT EACH JOINT.



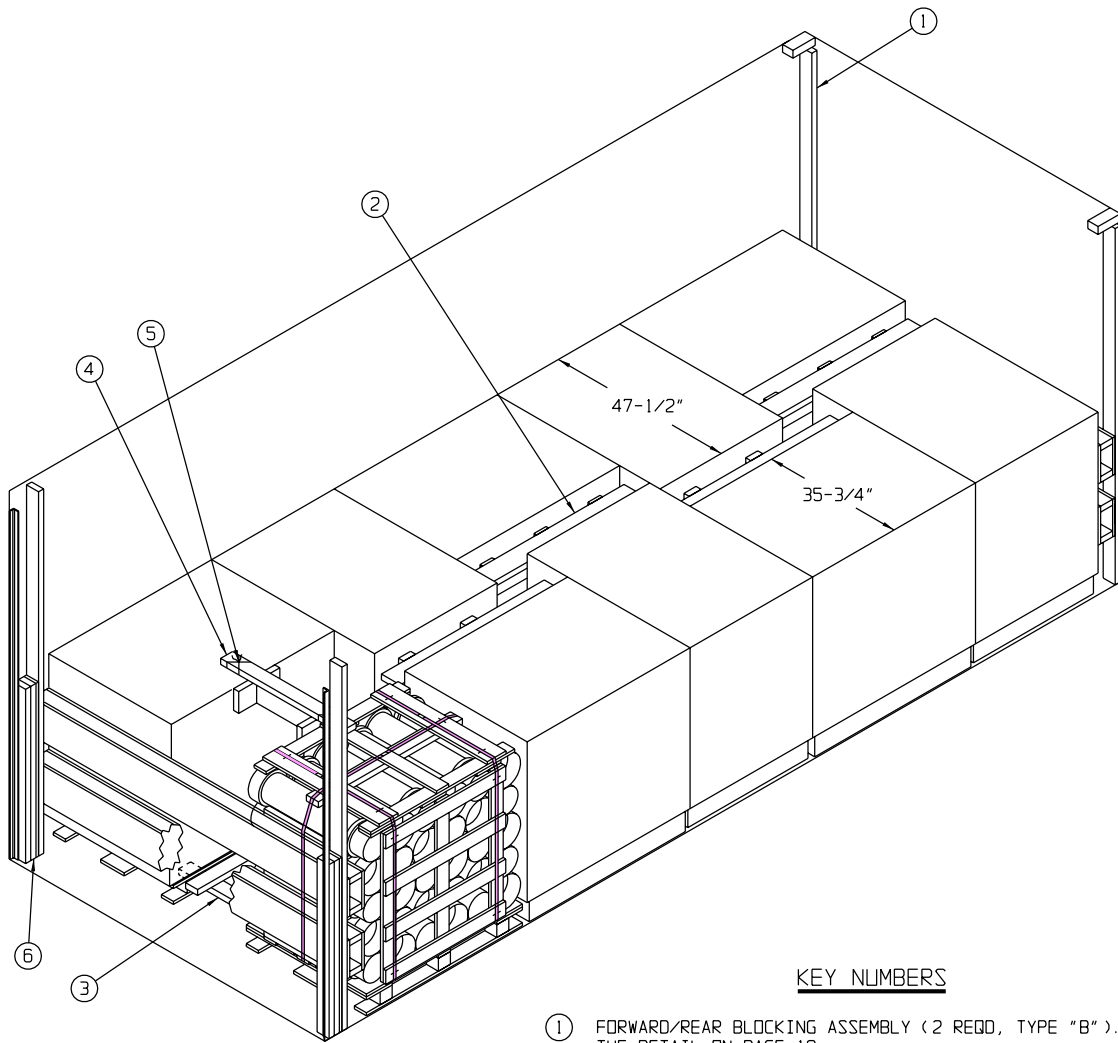
TOP VIEW

ORIENT WITH THIS SIDE AGAINST THE LENGTH OF THE PALLET UNIT.

HOLD-DOWN PIECE, 2" X 3" X 35" (1 REQD). NAIL TO THE VERTICAL PIECES W/2-10d NAILS AT EACH JOINT.

CENTER FILL ASSEMBLY A

NOTE: FOR A ONE HIGH LOAD, ELIMINATE THE TOP THREE HORIZONTAL PIECES AND SHORTEN THE VERTICAL PIECES TO 33-1/2". THE LENGTH OF THE HORIZONTAL PIECE MUST BE AS CLOSE AS POSSIBLE TO THE LENGTH OF THE LONGITUDINAL VOID TO BE FILLED.



REAR OF CONTAINER.

ISOMETRIC VIEW

KEY NUMBERS

- ① FORWARD/REAR BLOCKING ASSEMBLY (2 REQD, TYPE "B"). SEE THE DETAIL ON PAGE 19.
- ② CENTER FILL ASSEMBLY B (4 REQD). SEE THE DETAIL ON PAGE 9.
- ③ ANTI-SWAY BRACE (1 REQD). SEE THE DETAIL ON PAGE 18.
- ④ TOP SPACER A (1 REQD). SEE THE DETAIL ON PAGE 7.
- ⑤ TIE WIRE, NO. 14 GAGE WIRE 24" LONG (2 REQD). INSTALL THE WIRE TO FORM A COMPLETE LOOP AROUND THE TOP SPACER AND THE TOP DUNNAGE ASSEMBLY OF THE PALLET UNIT. BRING ENDS TOGETHER AND TWIST TAUT.
- ⑥ FILL MATERIAL, 4" WIDE BY 44" LONG MATERIAL (AS REQD). NAIL THE FIRST PIECE TO THE REAR BLOCKING ASSEMBLY W/4 NAILS OF A SUITABLE SIZE (10d FOR 2" THICK MATERIAL). NAIL EACH ADDITIONAL PIECE TO THE PREVIOUS PIECE IN A SIMILAR MANNER. NOTE: MULTIPLE PIECES MAY BE LAMINATED TOGETHER FIRST AND THEN TOENAILOED TO THE REAR BLOCKING ASSEMBLY. SEE "DETAIL A" AND "DETAIL B" ON PAGE 21.

BILL OF MATERIAL

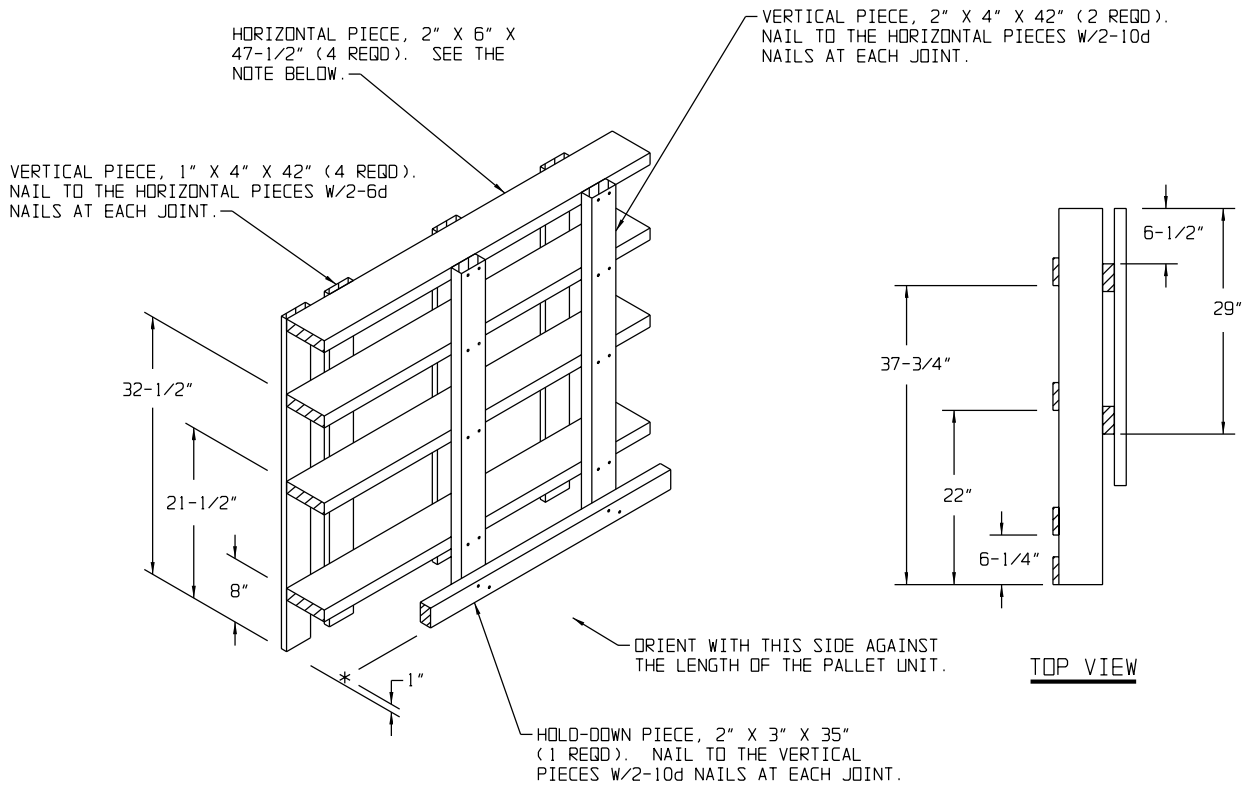
LUMBER	LINEAR FEET	BOARD FEET
1" X 4"	64	22
2" X 3"	12	6
2" X 4"	149	100
2" X 6"	67	67
NAILS	NO. REQD	POUNDS
6d (2")	312	2
10d (3")	146	2-1/4
PLYWOOD, 3/4"	48.03 SQ FT REQD	99.06 LBS
WIRE, NO. 14 GAGE	4' REQD	NIL

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLET UNIT	10	14,320 LBS
DUNNAGE		494 LBS
CONTAINER		4,700 LBS
TOTAL WEIGHT		19,514 LBS (APPROX)

RECOMMENDED SEQUENTIAL LOADING PROCEDURES

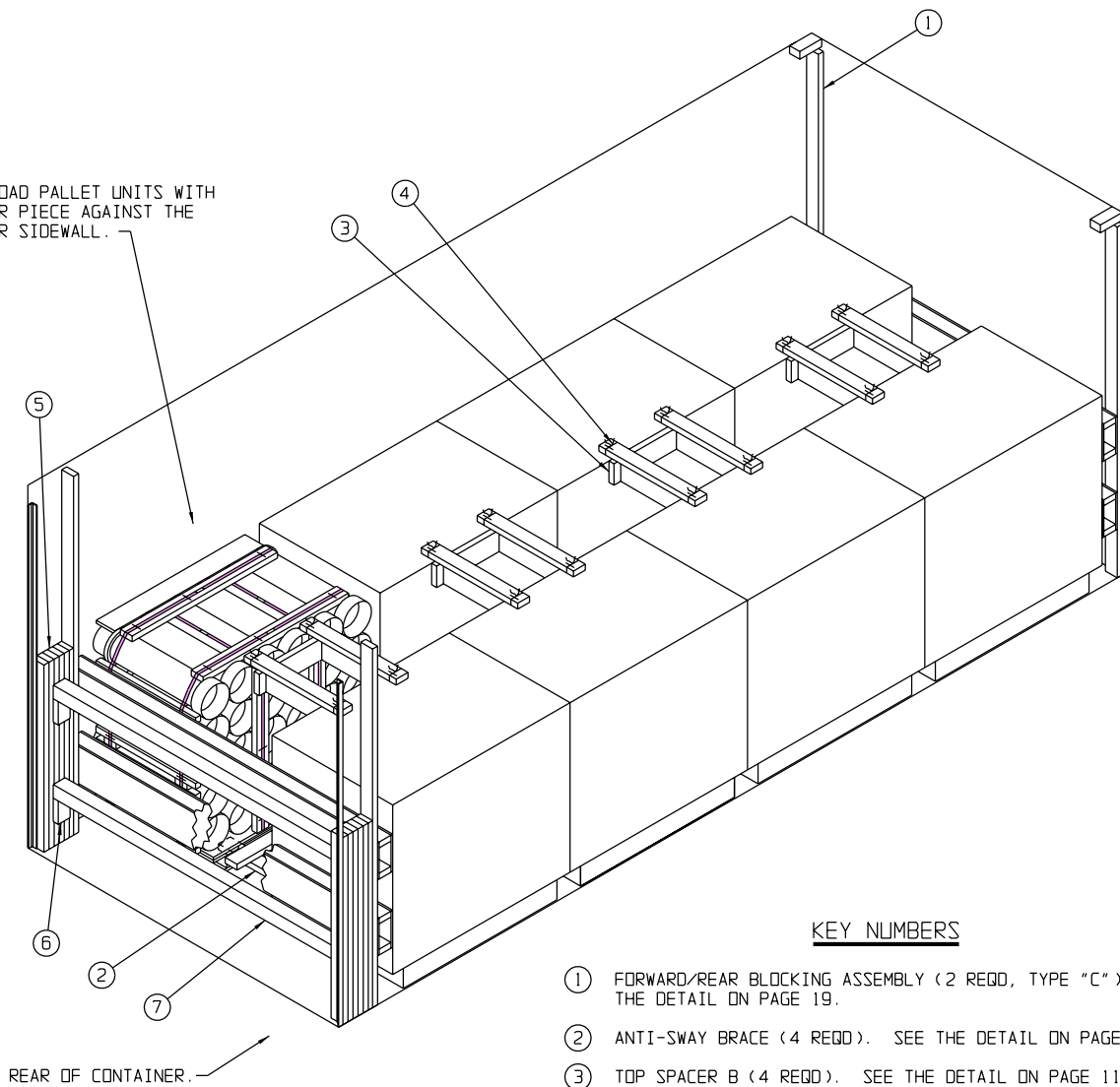
1. PREFABRICATE TWO FORWARD/REAR BLOCKING ASSEMBLIES (TYPE "B"), FOUR CENTER FILL ASSEMBLIES "B", AND ONE TOP SPACER "A".
2. INSTALL THE FORWARD BLOCKING ASSEMBLY.
3. LOAD TWO PALLET UNITS AND INSTALL ONE CENTER FILL ASSEMBLY.
4. REPEAT STEP 3 THREE TIMES.
5. LOAD TWO PALLET UNITS, AND INSTALL ANTI-SWAY BRACE AND TOP SPACER WITH TIE WIRE.
6. INSTALL THE REAR BLOCKING ASSEMBLY.
7. INSTALL THE FILL MATERIAL.



CENTER FILL ASSEMBLY B

NOTE: THE LENGTH OF THE HORIZONTAL PIECE MUST BE AS CLOSE AS POSSIBLE TO THE LENGTH OF THE LONGITUDINAL VOID TO BE FILLED.

NOTE: LOAD PALLET UNITS WITH THE RISER PIECE AGAINST THE CONTAINER SIDEWALL.



ISOMETRIC VIEW

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLET UNIT	8	11,616 LBS
DUNNAGE		443 LBS
CONTAINER		4,700 LBS
TOTAL WEIGHT		16,759 LBS (APPROX)

KEY NUMBERS

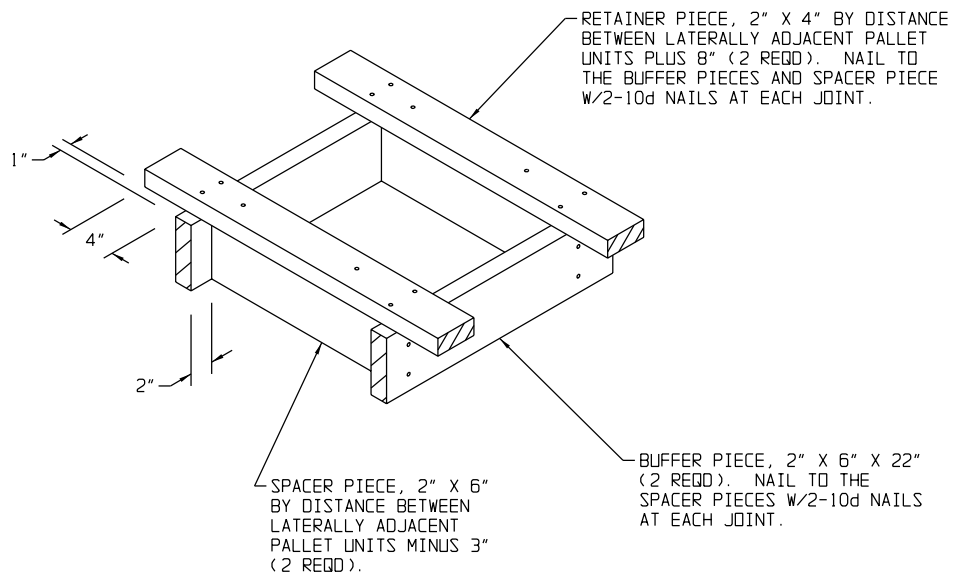
- ① FORWARD/REAR BLOCKING ASSEMBLY (2 REQD, TYPE "C"). SEE THE DETAIL ON PAGE 19.
- ② ANTI-SWAY BRACE (4 REQD). SEE THE DETAIL ON PAGE 18.
- ③ TOP SPACER B (4 REQD). SEE THE DETAIL ON PAGE 11.
- ④ TIE WIRE, NO. 14 GAGE WIRE 18" LONG (16 REQD). INSTALL THE WIRE TO FORM A COMPLETE LOOP AROUND THE TOP SPACER AND THE PALLET TIEDOWN STRAP. BRING ENDS TOGETHER AND TWIST TAUT. SECURE TO THE TOP SPACER WITH A PARTIALLY DRIVEN 10d NAIL BENT OVER THE WIRE OR WITH A STRAP STAPLE.
- ⑤ FILL MATERIAL, 4" WIDE BY 48" LONG MATERIAL (AS REQD). NAIL THE FIRST PIECE TO THE REAR BLOCKING ASSEMBLY W/4 NAILS OF A SUITABLE SIZE (10d FOR 2" THICK MATERIAL). NAIL EACH ADDITIONAL PIECE TO THE PREVIOUS PIECE IN A SIMILAR MANNER. NOTE: MULTIPLE PIECES MAY BE LAMINATED TOGETHER FIRST AND THEN THENAILED TO THE REAR BLOCKING ASSEMBLY. SEE "DETAIL A" AND "DETAIL B" ON PAGE 21.
- ⑥ STRUT LEDGER, 2" X 4" X 6" (4 SHOWN - OPTIONAL). INSTALL IF DESIRED TO AID IN THE INSTALLATION OF SPANNER PIECES. NAIL TO THE FILL MATERIAL W/2-10d NAILS.
- ⑦ DOOR SPANNER, 4" X 4" MATERIAL, CUT TO A LENGTH THAT WILL PROVIDE FOR A DRIVE FIT (REF: 7'-1-3/8") (2 REQD). THENAIL TO THE FILL MATERIAL W/2-12d NAILS AT EACH END. SEE THE "BEVEL-CUT" DETAIL ON PAGE 18. NOTE THAT THESE PIECES ARE NOT REQUIRED IF THE SPACE BETWEEN THE REAR BLOCKING ASSEMBLY AND THE LOAD RETAINER IS NOT GREATER THAN 6". ALIGN THE TOP OF THE UPPER SPANNER WITH THE TOP OF THE UPPER TOP BOX BEAM ASSEMBLY, AND ALIGN THE BOTTOM OF THE LOWER SPANNER WITH THE BOTTOM OF THE LOWER BOX BEAM ASSEMBLY.

BILL OF MATERIAL

LUMBER	LINEAR FEET	BOARD FEET
2" X 4"	208	139
2" X 6"	27	27
4" X 4"	15	20
NAILS	NO. REQD	POUNDS
6d (2")	176	1/4
10d (3")	200	3-1/4
12d (3-1/4")	8	1/4
PLYWOOD, 1/2"	48.03 SQ FT REQD	66.04 LBS
WIRE, NO. 14 GAGE	24' REQD	0.40 LBS

RECOMMENDED SEQUENTIAL LOADING PROCEDURES

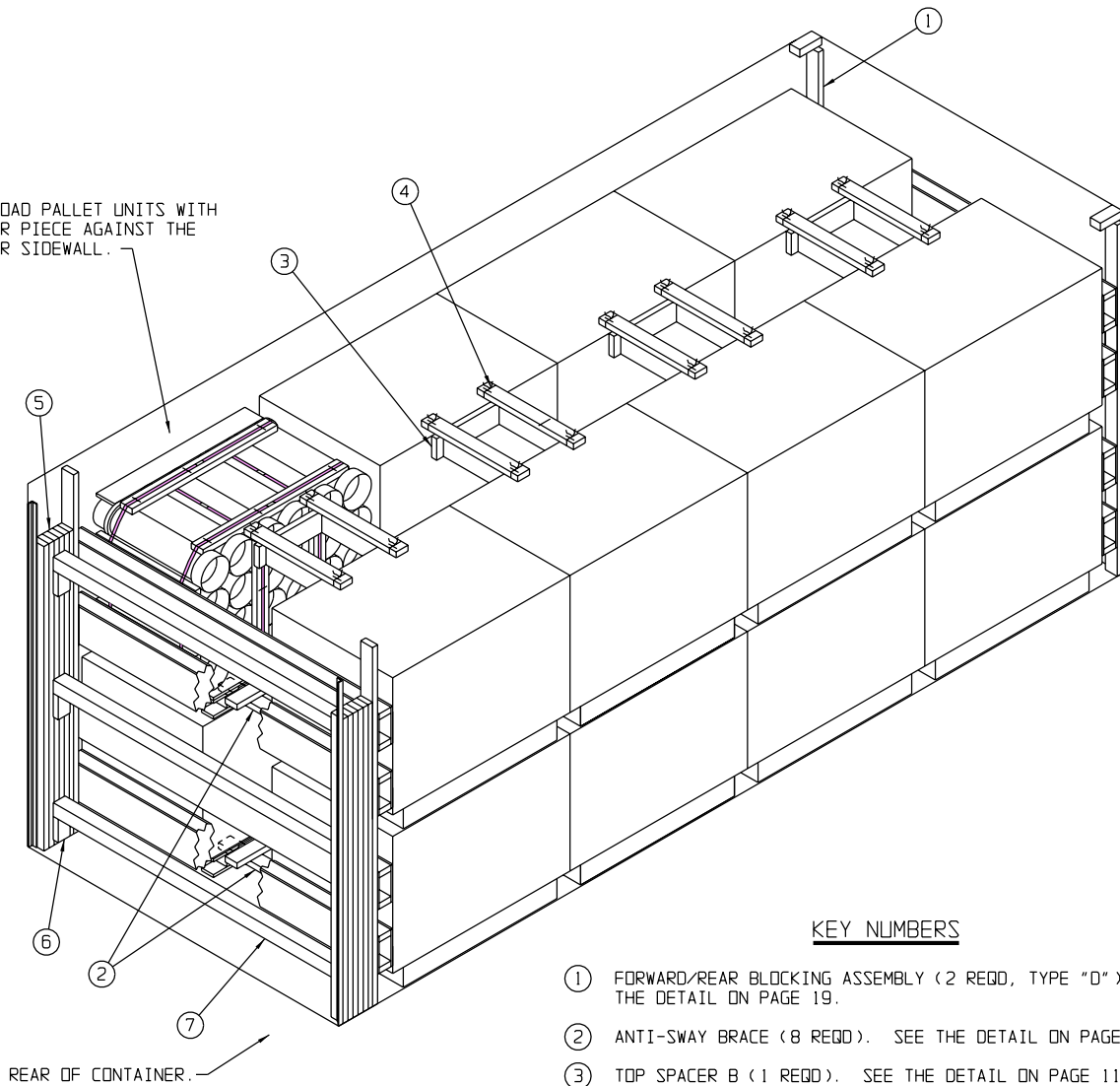
1. PREFABRICATE TWO FORWARD/REAR BLOCKING ASSEMBLIES (TYPE "C"), AND FOUR TOP SPACERS "B".
2. INSTALL THE FORWARD BLOCKING ASSEMBLY.
3. LOAD TWO PALLET UNITS (RISER PIECE TOWARDS WALL) AND INSTALL ONE ANTI-SWAY BRACE AND ONE TOP SPACER WITH TIE WIRE.
4. REPEAT STEP 3 THREE TIMES.
5. INSTALL THE REAR BLOCKING ASSEMBLY.
6. INSTALL THE FILL MATERIAL, STRUT LEDGERS (IF USED), AND DOOR SPANNERS.



TOP SPACER B

(FOR USE WITH FLAT OR ROUTED DUNNAGE PALLET UNITS.)

NOTE: LOAD PALLET UNITS WITH THE RISER PIECE AGAINST THE CONTAINER SIDEWALL.



ISOMETRIC VIEW

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLET UNIT	16	19,120 LBS
DUNNAGE		722 LBS
CONTAINER		4,700 LBS
TOTAL WEIGHT		24,542 LBS (APPROX)

KEY NUMBERS

- ① FORWARD/REAR BLOCKING ASSEMBLY (2 REQD, TYPE "D"). SEE THE DETAIL ON PAGE 19.
- ② ANTI-SWAY BRACE (8 REQD). SEE THE DETAIL ON PAGE 18.
- ③ TOP SPACER B (1 REQD). SEE THE DETAIL ON PAGE 11.
- ④ TIE WIRE, NO. 14 GAGE WIRE 18" LONG (16 REQD). INSTALL THE WIRE TO FORM A COMPLETE LOOP AROUND THE TOP SPACER AND THE PALLET TIEDOWN STRAP. BRING ENDS TOGETHER AND TWIST TAUT. SECURE TO THE TOP SPACER WITH A PARTIALLY DRIVEN 10d NAIL BENT OVER THE WIRE OR WITH A STRAP STAPLE.
- ⑤ FILL MATERIAL, 4" WIDE BY 6'-8" LONG MATERIAL (AS REQD). NAIL THE FIRST PIECE TO THE REAR BLOCKING ASSEMBLY W/6 NAILS OF A SUITABLE SIZE (10d FOR 2" THICK MATERIAL). NAIL EACH ADDITIONAL PIECE TO THE PREVIOUS PIECE IN A SIMILAR MANNER. NOTE: MULTIPLE PIECES MAY BE LAMINATED TOGETHER FIRST AND THEN TDENAILED TO THE REAR BLOCKING ASSEMBLY. SEE "DETAIL A" AND "DETAIL B" ON PAGE 21.
- ⑥ STRUT LEDGER, 2" X 4" X 6" (6 SHOWN - OPTIONAL). INSTALL IF DESIRED TO AID IN THE INSTALLATION OF SPANNER PIECES. NAIL TO THE FILL MATERIAL W/2-10d NAILS.
- ⑦ DOOR SPANNER, 4" X 4" MATERIAL, CUT TO A LENGTH THAT WILL PROVIDE FOR A DRIVE FIT (REF: 7'-1-3/8") (3 REQD). TDENAIL TO THE FILL MATERIAL W/2-12d NAILS AT EACH END. SEE THE "BEVEL-CUT" DETAIL ON PAGE 18. NOTE THAT THESE PIECES ARE NOT REQUIRED IF THE SPACE BETWEEN THE REAR BLOCKING ASSEMBLY AND THE LOAD RETAINER IS NOT GREATER THAN 6". ALIGN THE TOP OF THE UPPER SPANNER WITH THE TOP OF THE UPPER TOP BOX BEAM ASSEMBLY, ALIGN THE BOTTOM OF THE LOWER SPANNER WITH THE BOTTOM OF THE LOWER BOX BEAM ASSEMBLY, AND CENTER THE MIDDLE SPANNER BETWEEN THE OTHER TWO SPANNERS.

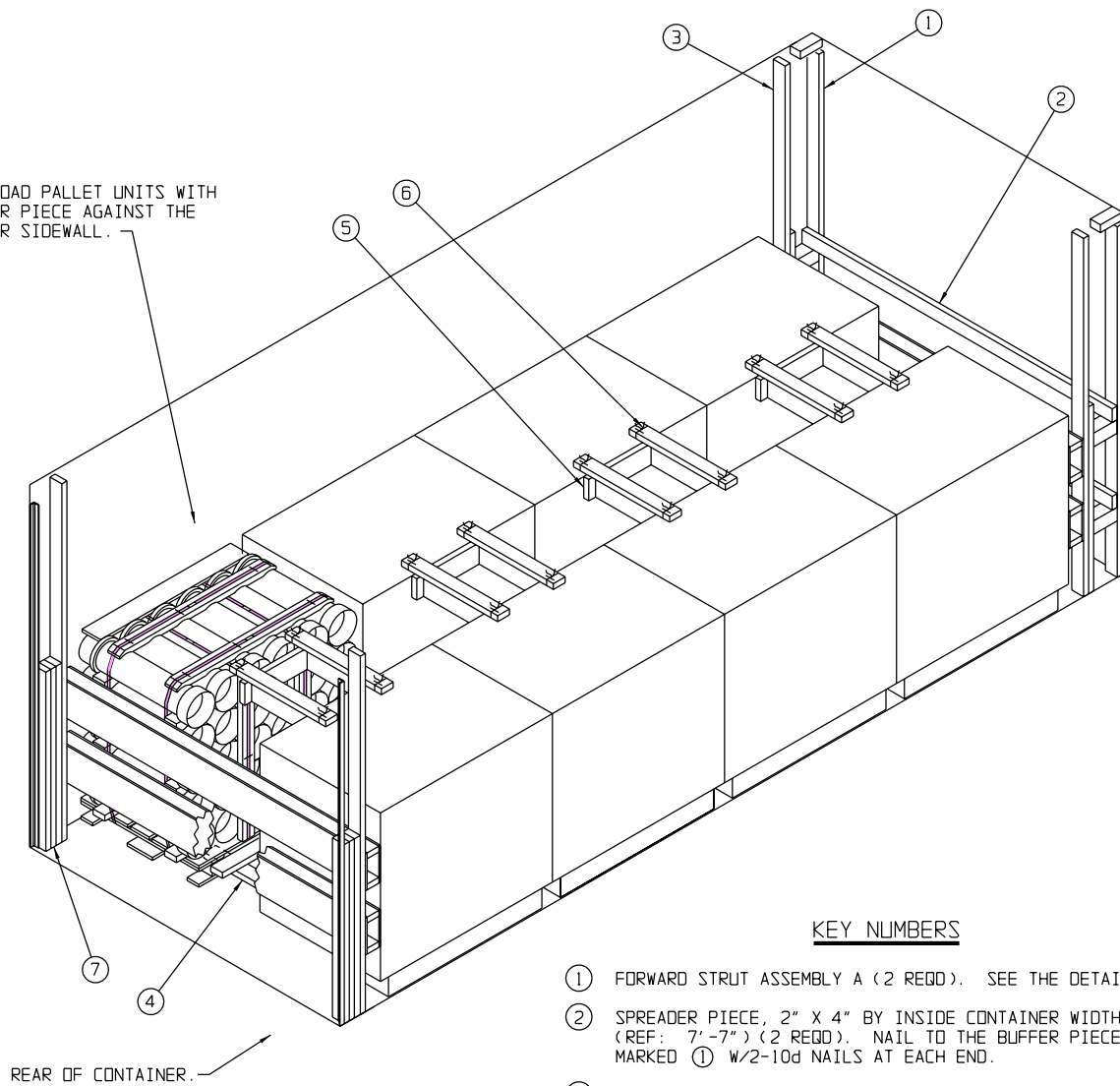
BILL OF MATERIAL

LUMBER	LINEAR FEET	BOARD FEET
2" X 4"	350	234
2" X 6"	27	27
4" X 4"	22	30
NAILS	NO. REQD	POUNDS
6d (2")	352	2-1/4
10d (3")	292	4-1/2
12d (3-1/4")	12	1/4
PLYWOOD, 1/2"	96.06 SQ FT REQD	132.08 LBS
WIRE, NO. 14 GAGE	24' REQD	0.40 LBS

RECOMMENDED SEQUENTIAL LOADING PROCEDURES

1. PREFABRICATE TWO FORWARD/REAR BLOCKING ASSEMBLIES (TYPE "D"), AND FOUR TOP SPACERS "B".
2. INSTALL THE FORWARD BLOCKING ASSEMBLY.
3. LOAD FOUR PALLET UNITS (RISER PIECE TOWARDS WALL) AND INSTALL TWO ANTI-SWAY BRACES AND ONE TOP SPACER WITH TIE WIRE.
4. REPEAT STEP 3 THREE TIMES.
5. INSTALL THE REAR BLOCKING ASSEMBLY.
6. INSTALL THE FILL MATERIAL, STRUT LEDGERS (IF USED), AND DOOR SPANNERS.

NOTE: LOAD PALLET UNITS WITH THE RISER PIECE AGAINST THE CONTAINER SIDEWALL.



ISOMETRIC VIEW

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLET UNIT	8	11,432 LBS
DUNNAGE		428 LBS
CONTAINER		4,700 LBS
TOTAL WEIGHT		16,560 LBS (APPROX)

KEY NUMBERS

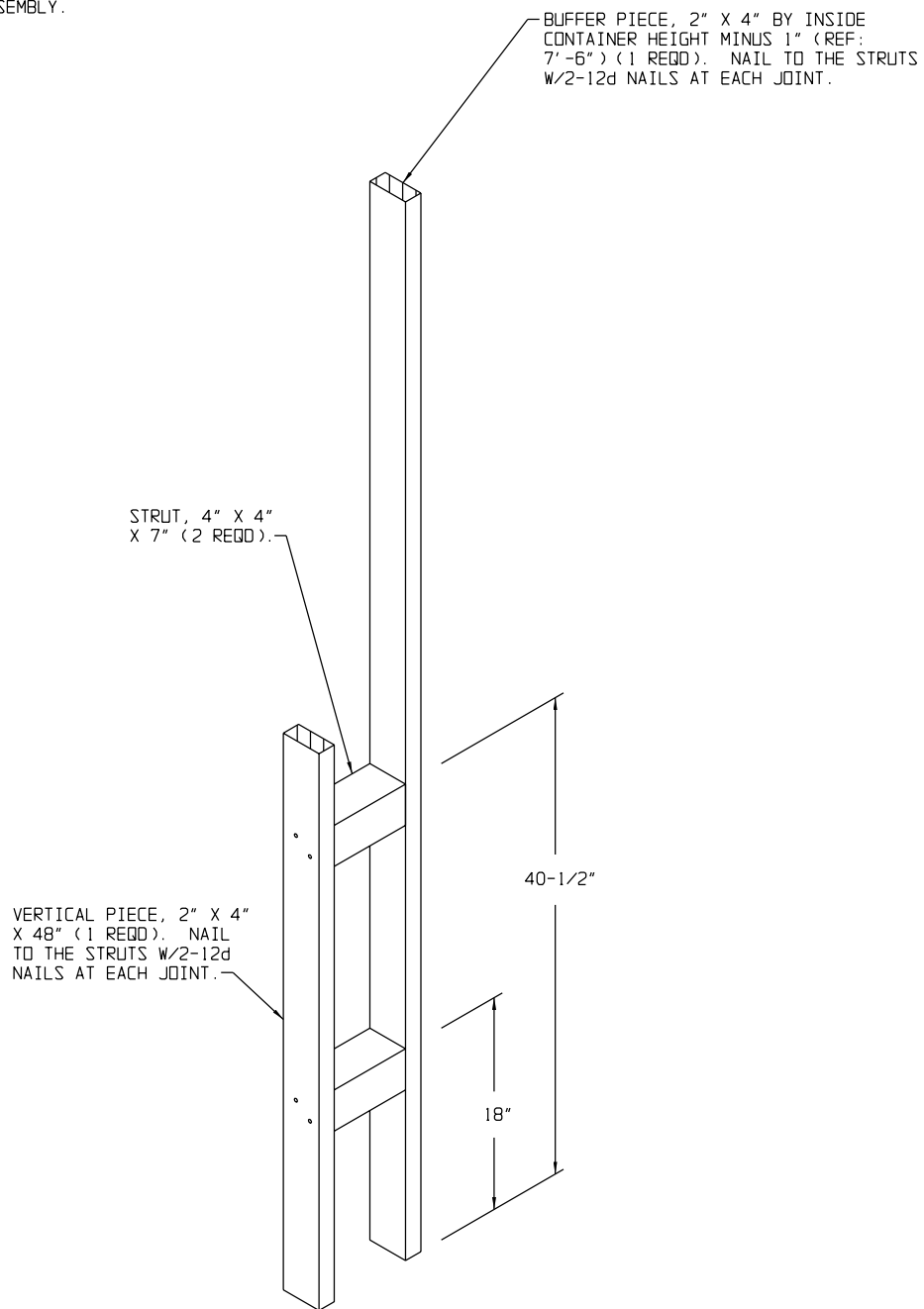
- ① FORWARD STRUT ASSEMBLY A (2 REQD). SEE THE DETAIL ON PAGE 15.
- ② SPREADER PIECE, 2" X 4" BY INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-7") (2 REQD). NAIL TO THE BUFFER PIECES OF PIECE MARKED ① W/2-10d NAILS AT EACH END.
- ③ FORWARD/REAR BLOCKING ASSEMBLY (2 REQD, TYPE "E"). SEE THE DETAIL ON PAGE 19. NAIL THROUGH THE BUFFER PIECES INTO THE VERTICAL PIECES OF PIECE MARKED ① W/4-10d NAILS.
- ④ ANTI-SWAY BRACE (4 REQD). SEE THE DETAIL ON PAGE 18.
- ⑤ TOP SPACER B (4 REQD). SEE THE DETAIL ON PAGE 11.
- ⑥ TIE WIRE, NO. 14 GAGE WIRE 18" LONG (16 REQD). INSTALL THE WIRE TO FORM A COMPLETE LOOP AROUND THE TOP SPACER AND THE PALLET TIEDOWN STRAP. BRING ENDS TOGETHER AND TIGHT TAUT. SECURE TO THE TOP SPACER WITH A PARTIALLY DRIVEN 10d NAIL BENT OVER THE WIRE OR WITH A STRAP STAPLE.
- ⑦ FILL MATERIAL, 4" WIDE BY 48" LONG MATERIAL (AS REQD). NAIL THE FIRST PIECE TO THE REAR BLOCKING ASSEMBLY W/4 NAILS OF A SUITABLE SIZE (10d FOR 2" THICK MATERIAL). NAIL EACH ADDITIONAL PIECE TO THE PREVIOUS PIECE IN A SIMILAR MANNER. NOTE: MULTIPLE PIECES MAY BE LAMINATED TOGETHER FIRST AND THEN THENAILED TO THE REAR BLOCKING ASSEMBLY. SEE "DETAIL A" AND "DETAIL B" ON PAGE 21.

BILL OF MATERIAL

LUMBER	LINEAR FEET	BOARD FEET
2" X 4"	220	147
2" X 6"	27	27
4" X 4"	3	4
NAILS	NO. REQD	POUNDS
6d (2")	176	1-1/4
10d (3")	184	3
12d (3-1/4")	16	1/2
PLYWOOD, 1/2"	48.03 SQ FT REQD	66.04 LBS
WIRE, NO. 14 GAGE	24' REQD	0.40 LBS

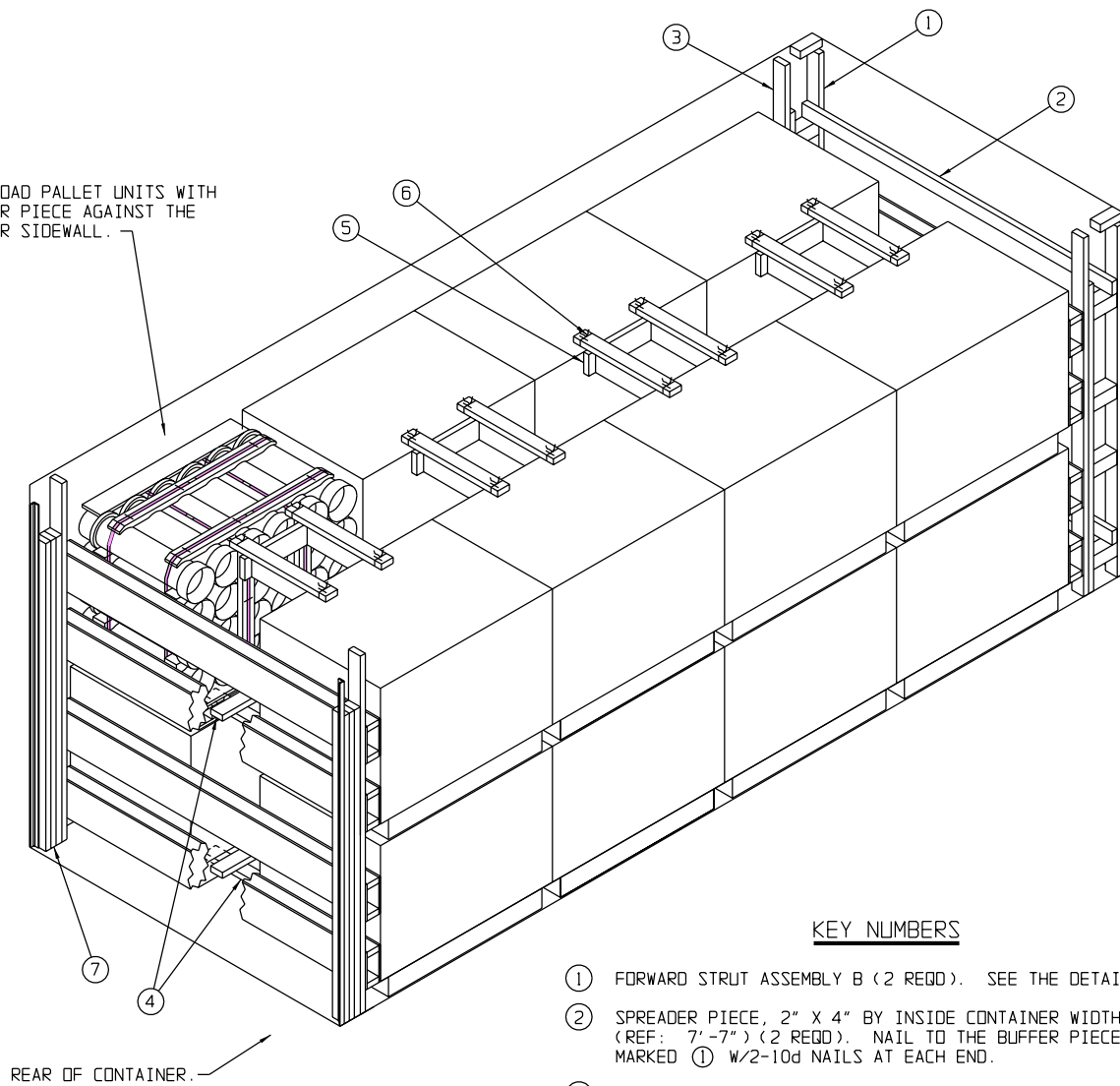
RECOMMENDED SEQUENTIAL LOADING PROCEDURES

1. PREFABRICATE TWO FORWARD/REAR BLOCKING ASSEMBLIES (TYPE "E"), TWO FORWARD STRUT ASSEMBLIES "A", AND FOUR TOP SPACERS "B".
2. INSTALL THE FORWARD STRUT ASSEMBLIES AND SPREADER PIECES.
3. INSTALL THE FORWARD BLOCKING ASSEMBLY.
4. LOAD TWO PALLET UNITS (RISER PIECE TOWARDS WALL) AND INSTALL ONE ANTI-SWAY BRACE AND ONE TOP SPACER WITH TIE WIRE.
5. REPEAT STEP 3 THREE TIMES.
6. INSTALL THE REAR BLOCKING ASSEMBLY.
7. INSTALL THE FILL MATERIAL.



FORWARD STRUT ASSEMBLY A

NOTE: LOAD PALLET UNITS WITH THE RISER PIECE AGAINST THE CONTAINER SIDEWALL.



ISOMETRIC VIEW

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLET UNIT	16	18,576 LBS
DUNNAGE		678 LBS
CONTAINER		4,700 LBS
TOTAL WEIGHT		23,954 LBS (APPROX)

KEY NUMBERS

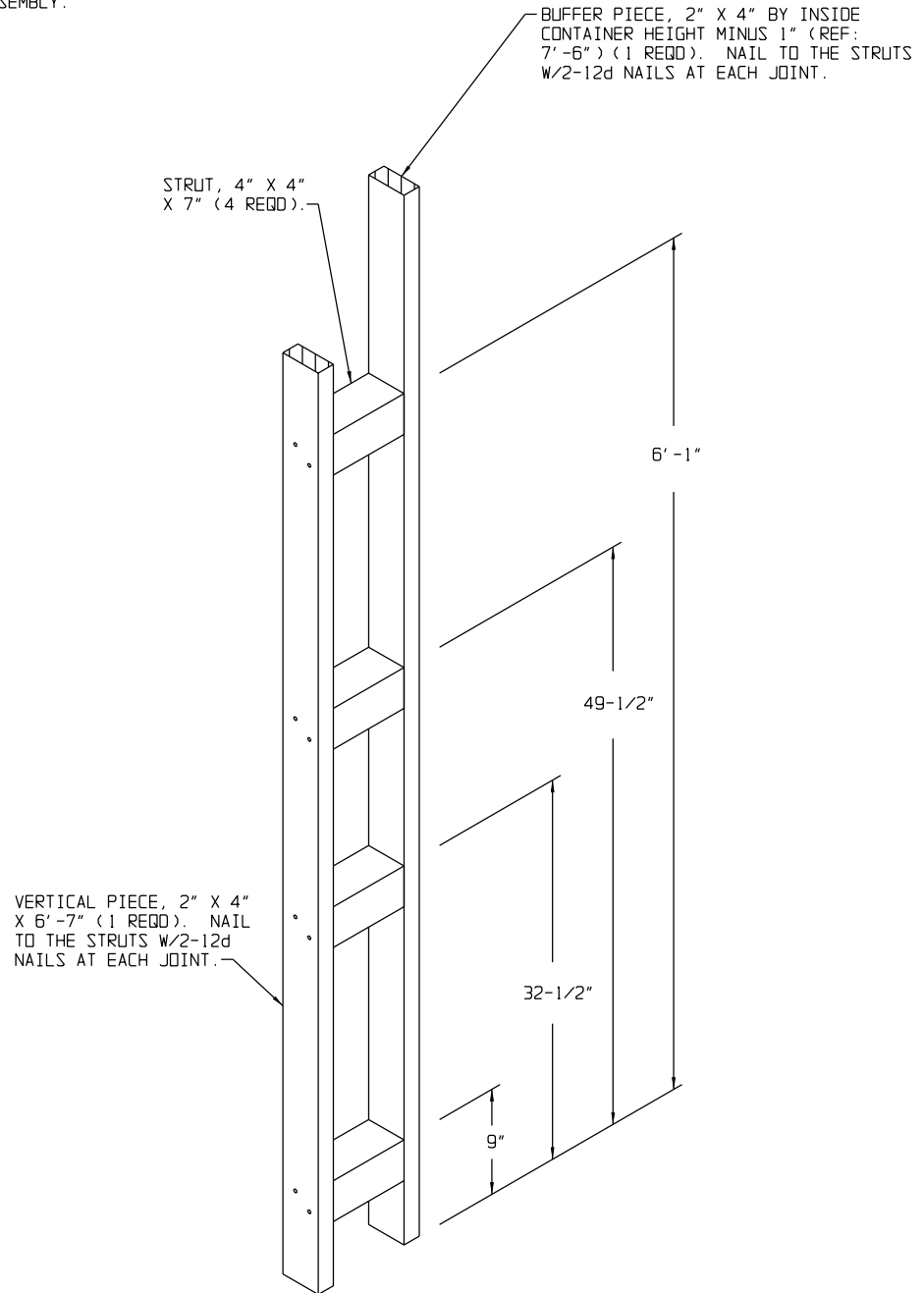
- ① FORWARD STRUT ASSEMBLY B (2 REQD). SEE THE DETAIL ON PAGE 17.
- ② SPREADER PIECE, 2" X 4" BY INSIDE CONTAINER WIDTH MINUS 1" (REF: 7'-7") (2 REQD). NAIL TO THE BUFFER PIECES OF PIECE MARKED ① W/2-10d NAILS AT EACH END.
- ③ FORWARD/REAR BLOCKING ASSEMBLY (2 REQD, TYPE "F"). SEE THE DETAIL ON PAGE 19. NAIL THROUGH THE BUFFER PIECES INTO THE VERTICAL PIECES OF PIECE MARKED ① W/6-10d NAILS.
- ④ ANTI-SWAY BRACE (8 REQD). SEE THE DETAIL ON PAGE 18.
- ⑤ TOP SPACER B (4 REQD). SEE THE DETAIL ON PAGE 11.
- ⑥ TIE WIRE, NO. 14 GAGE WIRE 18" LONG (16 REQD). INSTALL THE WIRE TO FORM A COMPLETE LOOP AROUND THE TOP SPACER AND THE PALLET TIEDOWN STRAP. BRING ENDS TOGETHER AND TWIST TAUT. SECURE TO THE TOP SPACER WITH A PARTIALLY DRIVEN 10d NAIL BENT OVER THE WIRE OR WITH A STRAP STAPLE.
- ⑦ FILL MATERIAL, 4" WIDE BY 6'-7" LONG MATERIAL (AS REQD). NAIL THE FIRST PIECE TO THE REAR BLOCKING ASSEMBLY W/6 NAILS OF A SUITABLE SIZE (10d FOR 2" THICK MATERIAL). NAIL EACH ADDITIONAL PIECE TO THE PREVIOUS PIECE IN A SIMILAR MANNER. NOTE: MULTIPLE PIECES MAY BE LAMINATED TOGETHER FIRST AND THEN THENAILED TO THE REAR BLOCKING ASSEMBLY. SEE "DETAIL A" AND "DETAIL B" ON PAGE 21.

BILL OF MATERIAL

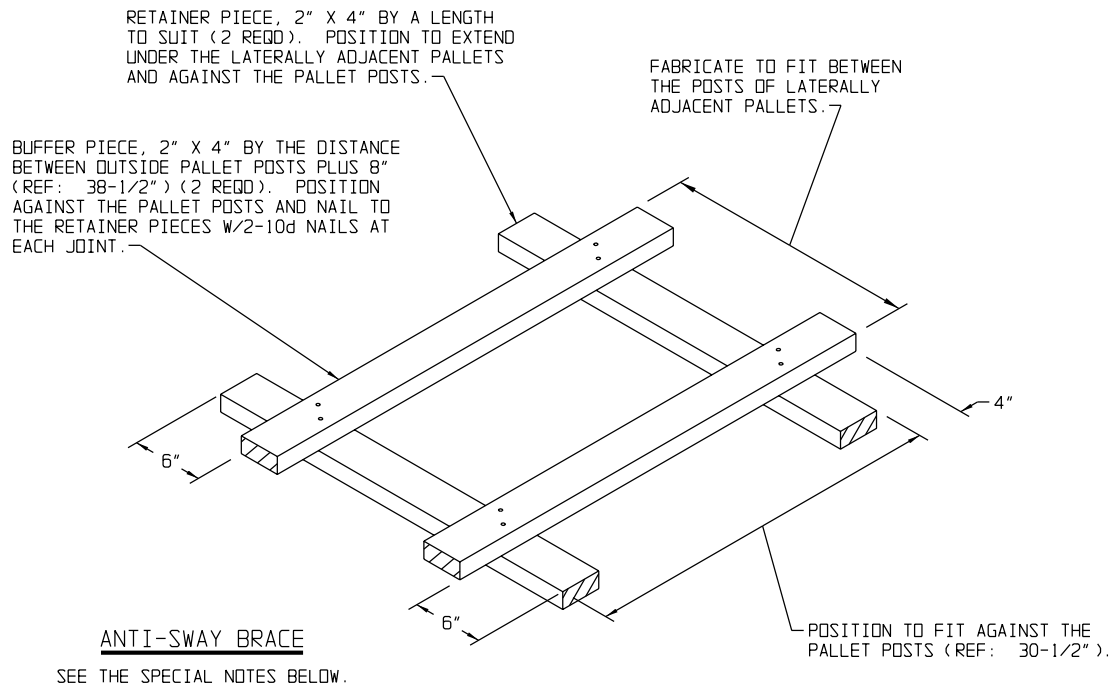
LUMBER	LINEAR FEET	BOARD FEET
2" X 4"	350	234
2" X 6"	27	27
4" X 4"	5	7
NAILS	NO. REQD	POUNDS
6d (2")	352	2-1/4
10d (3")	360	5-3/4
12d (3-1/4")	32	3/4
PLYWOOD, 1/2"	96.06 SQ FT REQD	132.08 LBS
WIRE, NO. 14 GAGE	24' REQD	0.40 LBS

RECOMMENDED SEQUENTIAL LOADING PROCEDURES

1. PREFABRICATE TWO FORWARD/REAR BLOCKING ASSEMBLIES (TYPE "F"), TWO FORWARD STRUT ASSEMBLIES "B", AND FOUR TOP SPACERS "B".
2. INSTALL THE FORWARD STRUT ASSEMBLIES AND SPREADER PIECES.
3. INSTALL THE FORWARD BLOCKING ASSEMBLY.
4. LOAD FOUR PALLET UNITS (RISER PIECE TOWARDS WALL) AND INSTALL TWO ANTI-SWAY BRACE AND ONE TOP SPACER WITH TIE WIRE.
5. REPEAT STEP 3 THREE TIMES.
6. INSTALL THE REAR BLOCKING ASSEMBLY.
7. INSTALL THE FILL MATERIAL.

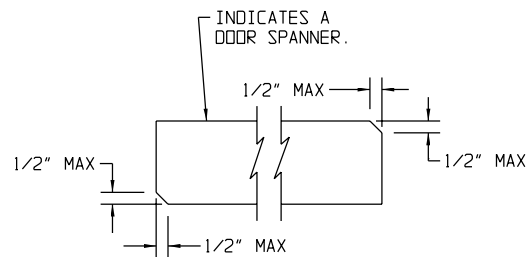


FORWARD STRUT ASSEMBLY B



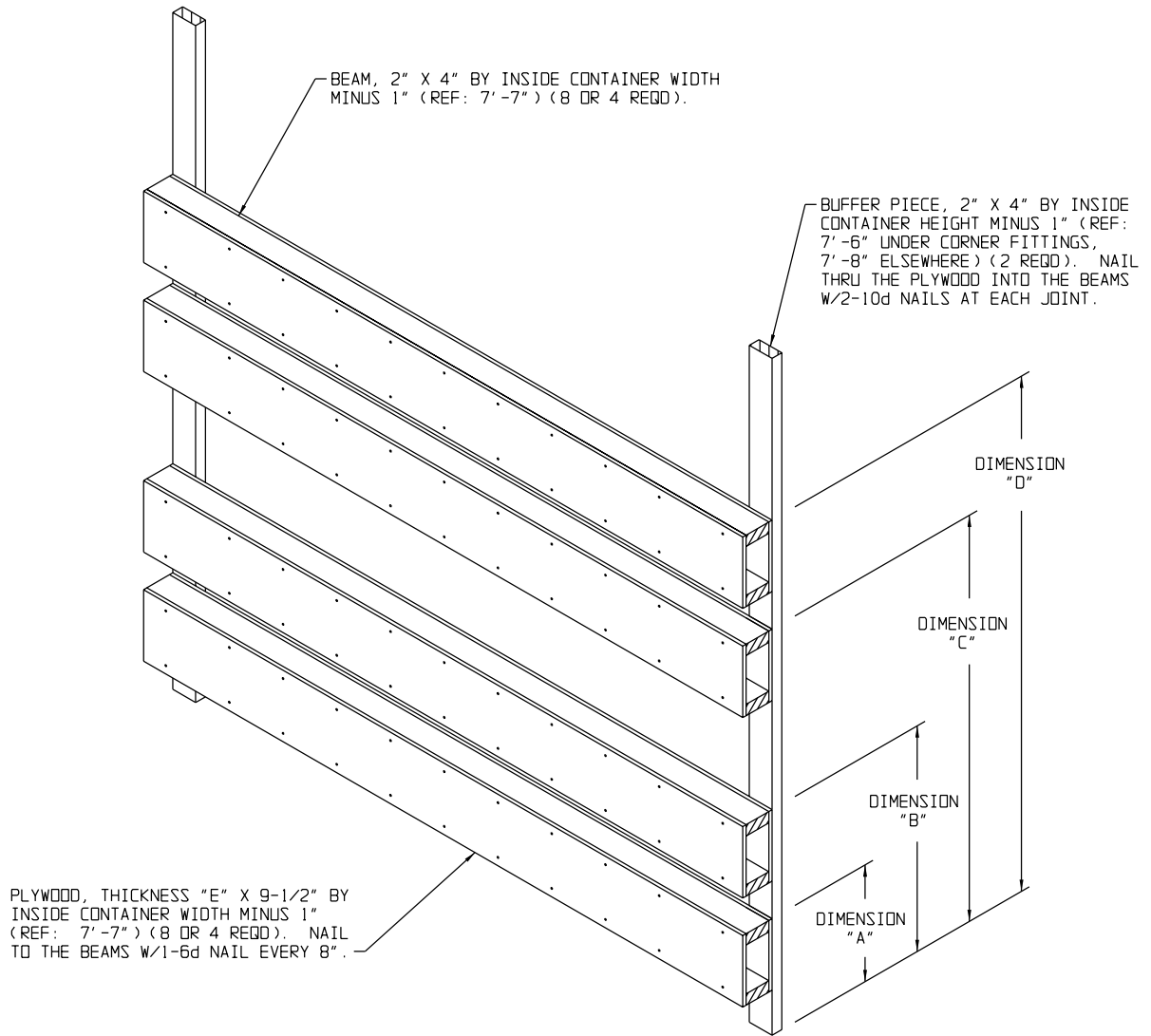
SPECIAL NOTES:

1. THE ANTI-SWAY BRACE IS FOR USE BETWEEN PALLET UNITS THAT ARE POSITIONED WITH THE PALLET WIDTH PARALLEL TO THE CONTAINER SIDEWALL.
2. ALL ASSEMBLIES MUST BE FABRICATED IN PLACE BETWEEN PALLETS.
 - A. POSITION THE FIRST RETAINER PIECE BETWEEN THE CENTER PALLET POST AND THE POST WHICH IS FURTHEST AWAY. THE RETAINER PIECE IS TO SPAN THE VOID BETWEEN LATERALLY ADJACENT PALLETS.
 - B. POSITION THE SECOND RETAINER PIECE AGAINST THE INSIDE OF THE NEAREST PALLET POST SO AS TO SPAN THE VOID BETWEEN LATERALLY ADJACENT PALLETS.
 - C. POSITION THE FIRST BUFFER PIECE AGAINST THE PALLET POSTS AND EXTENDING 4" BEYOND THE FURTHEST RETAINER PIECE. NAIL TO THE RETAINER PIECE W/2-10d NAILS.
 - D. POSITION THE SECOND BUFFER PIECE AGAINST THE PALLET POSTS ON THE OPPOSITE SIDE AND EXTENDING 4" BEYOND THE FURTHEST RETAINER PIECE. NAIL TO THE RETAINER PIECE W/2-10d NAILS.
 - E. PUSH THE PARTIAL ASSEMBLY FORWARD UNTIL THE FIRST RETAINER PIECE CONTACTS THE PALLET POST ON THE FAR SIDE OF THE PALLET. NAIL THE BUFFER PIECES TO THE SECOND RETAINER PIECE W/2-10d NAILS AT EACH JOINT.
3. IF BUFFER PIECES OF 2" X 4" LUMBER ARE OF AN INSUFFICIENT SIZE TO PERMIT ADEQUATE NAILING, 2" X 6" PIECES MAY BE USED INSTEAD.



BEVEL-CUT

IF DESIRED, EACH END OF A DOOR SPANNER PIECE MAY BE BEVEL-CUT AS SHOWN ABOVE TO FACILITATE THE ACHIEVEMENT OF A TIGHT DOOR-POST-TO-DOOR-POST FIT.



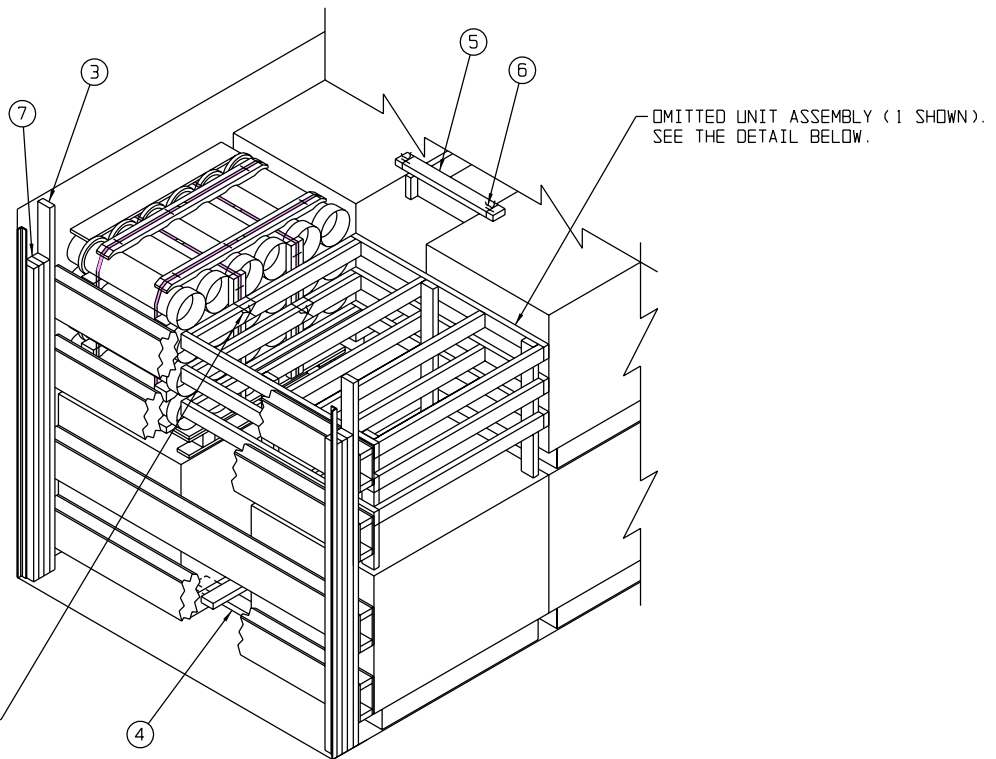
FORWARD/REAR BLOCKING ASSEMBLY

NOTE: FOR ONE HIGH LOADS, ELIMINATE THE TOP TWO BOX BEAM ASSEMBLIES (DIMENSIONS "C" AND "D" ARE NOT USED, SEE BELOW).

	FORWARD/REAR BLOCKING ASSEMBLY TYPE ●					
	"A"	"B"	"C"	"D"	"E"	"F"
DIMENSION "A"	15-1/2"	22"	22"	17"	24"	15"
DIMENSION "B"	30"	37-1/2"	41-1/2"	33-1/2"	40-1/2"	32-1/2"
DIMENSION "C"	54"	N/A	N/A	57-1/2"	N/A	55-1/2"
DIMENSION "D"	68-1/2"	N/A	N/A	6'-2"	N/A	6'-1"
THICKNESS "E"	1/2"	3/4"	1/2"	1/2"	1/2"	1/2"

● THE "FORWARD/REAR BLOCKING ASSEMBLY TYPE" REFERS TO THE TYPES LISTED IN THE KEY NUMBERS FOR EACH LOAD. FOR EXAMPLE, THE LOAD ON PAGE 6 REQUIRES TYPE "A" ASSEMBLIES.

TIE WIRE, NO. 14 GAGE WIRE 24" LONG (2 REQD PER OMITTED UNIT ASSEMBLY). INSTALL TO FORM A COMPLETE LOOP AROUND THE OMITTED UNIT ASSEMBLY AND THE TIEDOWN STRAPS ON THE PALLET UNIT. BRING ENDS TOGETHER AND TWIST TAUT.

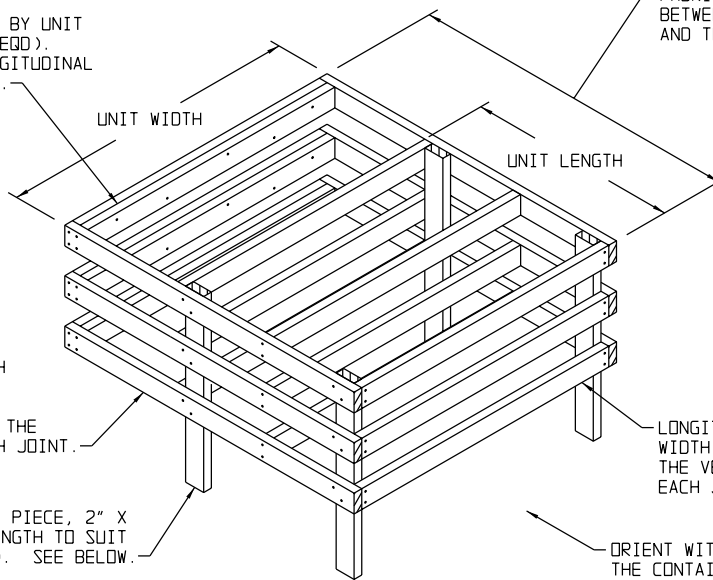


TYPICAL REDUCED LOAD

SEE GENERAL NOTES "H" AND "P" ON PAGE 2. KEY NUMBERS REFER TO THE KEY NUMBERS ON PAGE 16. A DECREASED HEIGHT ROUTED DUNNAGE PALLET UNIT LOAD (AS DEPICTED ON PAGE 16) IS SHOWN AS TYPICAL ONLY. THESE PROCEDURES MAY BE USED WITH ANY OF THE LOADS WITHIN THIS DRAWING.

FILL PIECE, 2" X 4" BY UNIT WIDTH MINUS 3" (3 REQD). LAMINATE TO THE LONGITUDINAL PIECE W/5-10d NAILS.

FABRICATE TO FILL THE VOID BETWEEN THE CONTAINER SIDEWALL AND THE PALLET UNIT.



LATERAL PIECE, 2" X 4" BY LENGTH TO SUIT (6 REQD). NAIL TO THE VERTICAL PIECES, THE SECOND AND FOURTH LONGITUDINAL PIECES, AND THE FILL PIECE W/2-10d NAILS AT EACH JOINT.

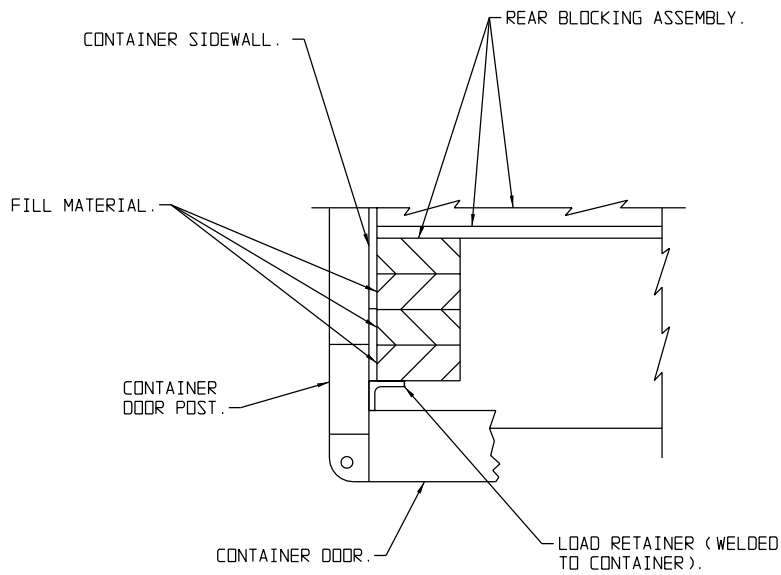
LONGITUDINAL PIECE, 2" X 4" BY UNIT WIDTH MINUS 3" (12 REQD). NAIL TO THE VERTICAL PIECES W/2-10d NAILS AT EACH JOINT.

VERTICAL PIECE, 2" X 4" BY LENGTH TO SUIT (4 REQD). SEE BELOW.

ORIENT WITH THIS SIDE AGAINST THE CONTAINER WALL.

FILLER ASSEMBLY

THE ASSEMBLY DEPICTED ABOVE IS FOR USE IN PLACE OF AN OMITTED PALLET UNIT. NO MORE THAN THREE FILLER ASSEMBLIES MAY BE USED IN A TWO-HIGH TWO-WIDE LOAD, AND NO MORE THAN ONE FILLER ASSEMBLY MAY BE USED IN A ONE-HIGH TWO-WIDE LOAD. THIS ASSEMBLY SHOULD NOT BE USED TO REPLACE PALLET UNITS ORIENTED WITH THE PA37 CONTAINERS PARALLEL TO THE CONTAINER SIDEWALL. NOTE: THE HEIGHT OF THE LATERAL AND LONGITUDINAL PIECES AND THE LENGTH OF THE VERTICAL PIECE DEPENDS ON THE ADJACENT PALLET UNITS. LOCATE THE LONGITUDINAL AND LATERAL PIECES SUCH THAT THEY INTERFACE WITH THE PALLET UNIT DUNNAGE.

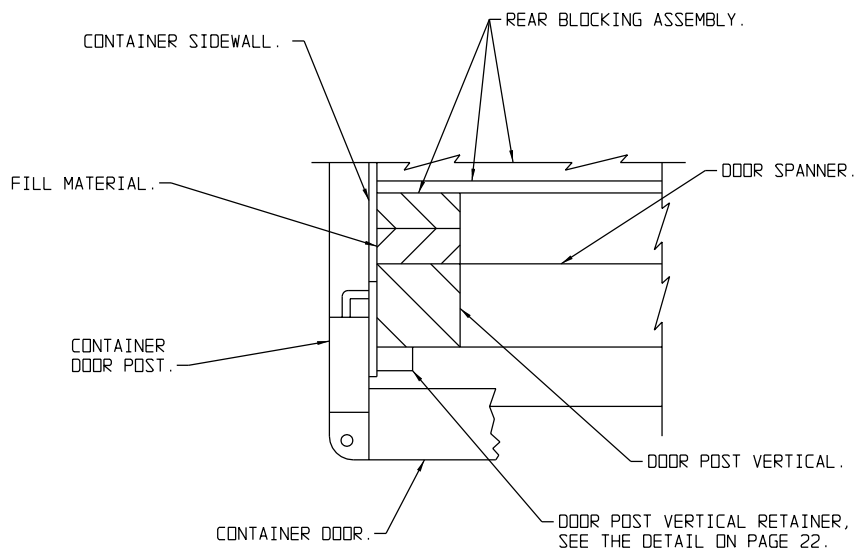


DETAIL A

A PARTIAL PLAN VIEW OF THE LEFT REAR PORTION OF THE CONTAINER IS SHOWN DEPICTING THE PROPER POSITION OF THE FILL MATERIAL AND ADJACENT DUNNAGE PIECES.

SPECIAL NOTE:

WHEN ISO CONTAINERS ARE NOT EQUIPPED WITH PRE-WELDED LOAD RETAINERS, AS DEPICTED IN "DETAIL A" ABOVE, DOOR POST VERTICALS, DOOR POST VERTICAL RETAINERS AND DOOR SPANNERS WILL BE REQUIRED FOR THE LOADS DEPICTED ON PAGES 6 THROUGH 16. SEE VARIOUS LOADS WITHIN AMC DRAWING 19-48-4153-15PA1002 FOR EXAMPLES. SEE PAGE 22 FOR DETAILS OF THE METAL DOOR POST VERTICAL RETAINER.

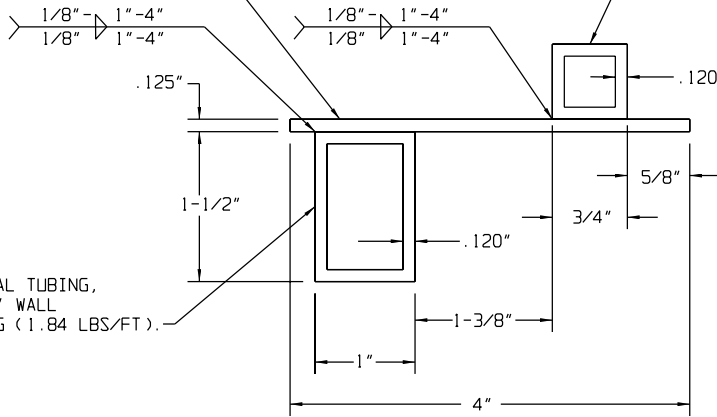


DETAIL B

A PARTIAL PLAN VIEW OF THE LEFT REAR PORTION OF THE CONTAINER IS SHOWN DEPICTING THE PROPER POSITION OF THE DOOR POST VERTICAL RETAINER AND ADJACENT DUNNAGE PIECES.

STEEL STRIP, 1/8" THICK BY 4" WIDE BY 83" LONG (1.70 LBS/FT).

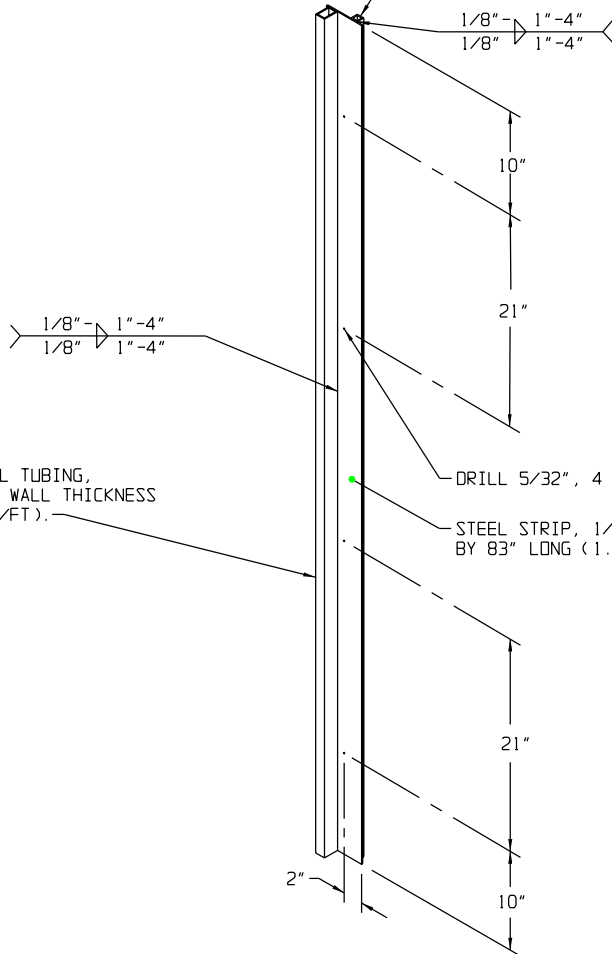
SQUARE STRUCTURAL TUBING, 3/4" SQUARE BY .120" WALL THICKNESS BY 83" LONG (1.03 LBS/FT).



RECTANGULAR STRUCTURAL TUBING, 1-1/2" BY 1" BY .120" WALL THICKNESS BY 83" LONG (1.84 LBS/FT).

VIEW A

VIEW A
SQUARE STRUCTURAL TUBING, 3/4" SQUARE BY .120" WALL THICKNESS BY 83" LONG (1.03 LBS/FT).



RECTANGULAR STRUCTURAL TUBING, 1-1/2" BY 1" BY .120" WALL THICKNESS BY 83" LONG (1.84 LBS/FT).

DRILL 5/32", 4 HOLES.

STEEL STRIP, 1/8" THICK BY 4" WIDE BY 83" LONG (1.70 LBS/FT).

DOOR POST VERTICAL RETAINER

NOTE: THE ABOVE ASSEMBLY HAS BEEN SHOWN ROTATED 90° FROM THE ORIENTATION IN WHICH IT IS INSTALLED IN THE LEFT REAR CORNER OF THE CONTAINER. THE ASSEMBLY HAS BEEN ROTATED FOR HOLE LOCATION CLARITY.