

LOADING AND TIEDOWN PROCEDURES FOR CONVENTIONAL AMMUNITION ITEMS LOADED ON THE PALLETIZED LOADING SYSTEM (PLS) A-FRAME FLATRACK (M1077) AND/OR THE ISO COMPATIBLE PLS FLATRACK (IPF) (M1)

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U.S. ARMY MATERIEL COMMAND DRAWING			
APPROVED, U.S. ARMY ARMAMENT, MUNITIONS AND CHEMICAL COMMAND 	DRAFTSMAN	TECHNICIAN	ENGINEER
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APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND 	VALIDATION ENGINEERING DIVISION	TRANSPORTATION ENGINEERING DIVISION	LOGISTICS ENGINEERING OFFICE
FEBRUARY 1994			
	CLASS	DIVISION	DRAWING
	19	48	4903
		DRAWING	FILE
		4903	CA1704

DO NOT SCALE

GENERAL NOTES

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR-740-1.
- B. THIS DRAWING COVERS PROCEDURES APPLICABLE TO THE TRANSPORT OF CONVENTIONAL AMMUNITION ITEMS, LOADED ON THE PALLETIZED LOADING SYSTEM (PLS) M1077 A-FRAME AND/OR M1 ISO COMPATIBLE FLATRACK, SECURED WITH WEB STRAP TIEDOWN ASSEMBLIES, FOR ON AND/OR OFF HIGHWAY. NOTE: THE PROCEDURES ARE APPLICABLE WHETHER THE FLATRACKS MOVE ON THE PLS TRUCK OR ON THE PLS TRAILER.
- C. DEPICTED PROCEDURES APPLY TO A-FRAME FLATRACKS HAVING AN ALL METAL CARGO DECK AREA 19'-0" LONG BY 7'-6-3/4" WIDE. EQUIPPED WITH ELEVEN TIEDOWN ANCHORS ON EACH SIDE AND FOUR ON EACH END. THE EMPTY FLATRACK WEIGHT IS 3,200 POUNDS AND THE LOAD CAPACITY IS 33,000 POUNDS. THE DEPICTED PROCEDURES ALSO APPLY TO THE M1 FLATRACK WHICH HAS A WOOD AND METAL CARGO DECK AREA 18'-6" LONG BY 7'-6-1/2" WIDE. EQUIPPED WITH ELEVEN TIEDOWN ANCHORS ON EACH SIDE. THE EMPTY FLATRACK WEIGHT IS 7,500 POUNDS AND THE LOAD CAPACITY IS 28,750 POUNDS.
- D. ALL LOADS SHOWN HEREIN ARE TYPICAL AND ARE BASED ON TESTED PROCEDURES FOR OFF HIGHWAY TRANSPORT. COMBINATIONS OF PROCEDURES MAY BE USED. HOWEVER, THE APPROVED METHODS SPECIFIED HEREIN MUST BE FOLLOWED AS CLOSELY AS POSSIBLE.
- E. BECAUSE OF THE FACT THAT ALL LOADS HEREIN ARE TYPICAL IT IS MOST LIKELY THAT THE ACTUAL ITEM OR QUANTITY TO BE TRANSPORTED WILL NOT BE DEPICTED. IN ORDER TO MAINTAIN SIMILARITY FROM ONE LOAD TO ANOTHER, INSTALLATIONS SHOULD MAKE AN ACTUAL PENCILED SKETCH OF THE LOAD, USING THE VARIOUS TYPICAL LOADS AND PROCEDURES SHOWN HEREIN FOR GUIDANCE. THE SKETCH WOULD BE ADVANTAGEOUS FOR MAXIMUM LOADS USING A MINIMUM QUANTITY OF WEB STRAP TIEDOWN ASSEMBLIES.
- F. WEB STRAP TIEDOWN ASSEMBLIES MUST BE SECURELY HOOKED INTO ANCHORING DEVICES ON THE TRANSPORTING VEHICLE AND FIRMLY TENSIONED. FIRMLY TENSIONED MEANS, WHEN THE OPERATOR PULLS ON THE RATCHET HANDLE BY HAND, THE RATCHET WILL NOT ADVANCE ANOTHER NOTCH. NO TYPE OF MECHANICAL EXTENSION OR LEVER WILL BE USED. EXERCISE CARE DURING STRAP APPLICATION, AVOID TWISTS IN THE STRAP TO THE EXTENT POSSIBLE (IF TIME PERMITS) BUT ENSURE THERE ARE NO KNOTS IN THE STRAP. ON THE TAKE-UP SPOOL OF THE RATCHET, ENSURE STRAIGHT LAY OF THE STRAP WHEN TENSIONING. AFTER INITIAL WEBBING-TO-WEBBING CONTACT HAS BEEN MADE, BY ROTATING THE TAKE-UP SPOOL UNTIL NO METAL ON THE SPOOL IS SHOWING AND THE STRAP HAS MADE CONTACT WITH ITSELF. THE TENSIONED STRAP MUST FORM AT LEAST 1/2 BUT NOT MORE THAN 1-1/2 WRAPS OF STRAP ON THE TAKE-UP SPOOL OF THE TENSIONING RATCHET. AFTER TENSIONING IS COMPLETED, ENSURE THAT THE SPOOL LOCKING LATCH IS FULLY SEATED AT BOTH ENDS OF THE SPOOL IN MATCHING LOCKING NOTCHES. TIE BACK THE LOOSE END OF THE STRAP AFTER TENSIONING IS COMPLETED (LOOSE ENDS MAY BE FOLDED AND TAPED OR TIED TO THE TENSIONING STRAP IF TIME PERMITS). FOR ADDITIONAL GUIDANCE, SEE "RATCHET/RATCHETING DETAILS" ON PAGES 42 AND 43.
- G. ADJUSTABLE SCUFF SLEEVES PROVIDED ON WEB STRAP ASSEMBLIES WILL BE LOCATED TO PROVIDE A PAD WHERE STRAPS PASS OVER SHARP EDGES, OR RATCHETS AND HOOKS ON PREVIOUSLY INSTALLED WEB STRAP TIEDOWN ASSEMBLIES.
- H. PROCEDURES DEPICTED HEREIN ARE TYPICAL IN NATURE RELATIVE TO ITEM LOCATION IN/ON THE FLATRACK AND THE QUANTITIES SHOWN. ITEM LOCATION AND QUANTITIES OF THE DESIGNATED ITEM MAY BE VARIED TO SATISFY OPERATIONAL REQUIREMENTS, PROVIDED LOADING AND TIEDOWN PRINCIPLES SPECIFIED HEREIN ARE RETAINED.
- J. WHEN ONE WEB STRAP TIEDOWN ASSEMBLY IS NOT LONG ENOUGH TO SPAN THE DISTANCE DEPICTED, TWO ASSEMBLIES MAY BE HOOKED TOGETHER TO GAIN THE NECESSARY LENGTH.

(CONTINUED AT RIGHT)

MATERIAL SPECIFICATIONS

STRAP - - - - - : WEBBING, UNIVERSAL TIEDOWN,
NSN 5340-01-204-3009, PN9392419, OR
NSN 5340-01-089-4997, PN11669588, OR
NSN 1670-00-725-1437, PN1376-013, OR
NSN 5340-00-980-9277, PN10900880.

ANTI-CHAFING
MATERIAL - - - - - : CANVAS, BURLAP, TAPE OR ANY OTHER
SUITABLE MATERIAL.

(GENERAL NOTES CONTINUED)

- K. AFTER ALL LOADING PROCEDURES ARE COMPLETE, CHECK ALL WEB STRAP TIEDOWN ASSEMBLIES FOR MAXIMUM TIGHTNESS AND RATCHET TIGHTER IF REQUIRED, PRIOR TO FOLDING UP AND SECURING THE LOOSE ENDS OF THE STRAP AS INSTRUCTED IN GENERAL NOTE "F".
- L. DURING LONG HAULS THE WEB STRAPS SHOULD BE CHECKED AT ALL VEHICLE STOPS AND TIGHTENED IF NECESSARY.
- M. DUE TO VARIOUS REASONS, SUCH AS ROUGH TERRAIN DURING OFF HIGHWAY TRANSPORT, PANIC STOPS, METAL FLOORS, AND NORMAL STRETCH OF WEB STRAPS, LOADED ITEMS MAY SLIDE SLIGHTLY Laterally AND/OR LONGITUDINALLY DURING TRANSPORT. THIS IS AN ACCEPTABLE CHARACTERISTIC AND IS NOT DETRIMENTAL TO LOAD SECUREMENT.
- N. THE TIEDOWN METHODS WITHIN THIS DRAWING SHOW TWO STRAP HOOKS CONNECTED TO THE SAME TIEDOWN ANCHOR. THIS IS AUTHORIZED AS SPECIFIED HEREIN.
- 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 25.4MM AND ONE POUND EQUALS 0.454 KG.
- P. THROUGHOUT THIS PROCEDURAL DRAWING WHICH INCLUDES PROCEDURES FOR BOTH PALLETIZED UNITS AND SKIDDED UNITS, THE GUIDANCE SHOWN FOR ONE TYPE OF UNIT MAY ALSO BE USED FOR THE OTHER TYPE OF UNIT.
- Q. EACH FLATRACK IS PROVIDED WITH 22 WEB STRAP TIEDOWN ASSEMBLIES. SIDE BOARD KITS AND CARGO COVERS ARE NOT PROVIDED, BUT ARE CONTAINED ON THE ADDITIONAL AUTHORIZED LIST (AAL) AND MAY BE OBTAINED THROUGH THE ARMY SUPPLY SYSTEM.
- R. ONE M1 FLATRACK CAN BE LOADED ON AN M871 SEMITRAILER, AND TWO CAN BE LOADED ON AN M872 SEMITRAILER, USING THE FOUR BOTTOM ISO CORNER FITTINGS.
- S. THE FLATRACK IS CAPABLE OF BEING TRANSPORTED ON C-130, C-141, C-5, AND C-17 AIRCRAFT.
- T. THE FLATRACK IS CAPABLE OF BEING SLING-LIFTED BY A CH-47D HELICOPTER WITH A REDUCED PAYLOAD. THE MAXIMUM WEIGHT FOR SLING-LIFT IS 22,900 POUNDS.
- U. FOR ADDITIONAL GUIDANCE SEE THE "LOADING PROCEDURES" ON PAGE 3 AND THE "SPECIAL NOTES" ON EACH LOAD PAGE.

LOADING PROCEDURES:

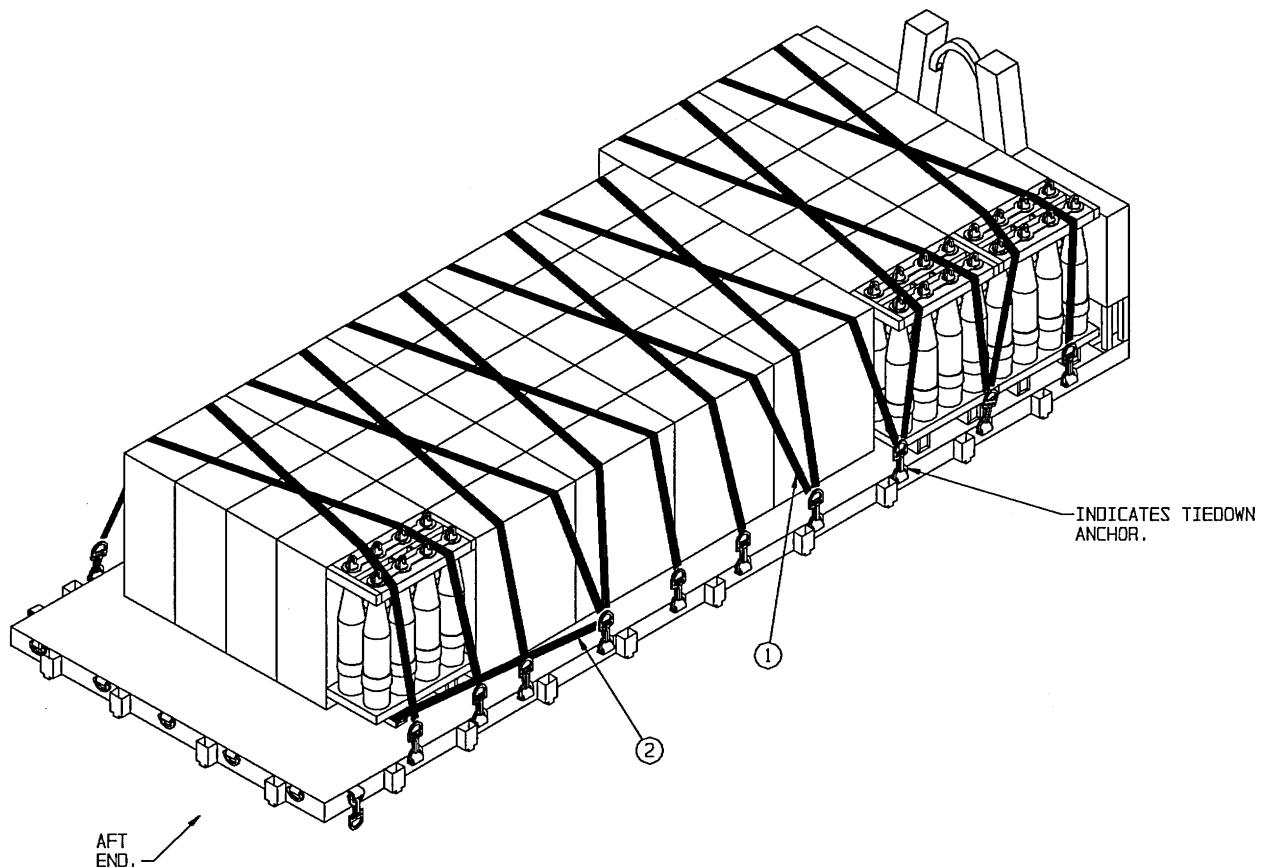
1. POSITION FULL AND/OR PARTIAL LOADS TIGHT AGAINST THE A-FRAME AT THE FORWARD END OF THE FLATRACK OR THE FRONT WALL ON THE M1 FLATRACK. IF DESIRED, PARTIAL LOADS MAY BE POSITIONED ANYWHERE ON THE LENGTH OF THE FLATRACK. HOWEVER, ONE MORE WEB STRAP TIEDOWN ASSEMBLY WILL BE REQUIRED. POSITION THIS STRAP FROM A TIEDOWN ANCHOR ON THE SIDE OF FLATRACK AROUND PALLET BASES ON FORWARD PALLETS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE FLATRACK.
2. PRIOR TO LOADING ITEMS ON THE FLATRACK ASSURE THAT THE DECK IS FREE OF EXCESSIVE AMOUNTS OF DIRT, SAND AND GRAVEL.
3. WHEN ATTACHING THE WEB STRAP HOOK TO THE TIEDOWN ANCHOR ON THE FLATRACK ASSURE THAT THE TIEDOWN ANCHOR IS IN A RAISED OR VERTICAL POSITION PRIOR TO AND AFTER THE STRAP IS TIGHTENED. IF THE WEB STRAP IS POSITIONED AT A NEAR HORIZONTAL ANGLE, SUCH AS STRAP MARKED ② ON PAGE 4, ASSURE THAT THE TIEDOWN ANCHOR IS POSITIONED IN LINE WITH THE PULL OF THE STRAP WHEN POSSIBLE. HOWEVER, IF TWO STRAPS ARE ATTACHED TO THE SAME TIEDOWN ANCHOR THE VERTICAL STRAP HAS PRECEDENCE.
4. ASSURE THAT ALL PALLET UNITS AND/OR OTHER ITEMS ARE POSITIONED TIGHTLY AGAINST EACH OTHER LATERALLY AND LONGITUDINALLY AS LOADING PROGRESSES. THIS WILL REDUCE LOAD MOVEMENT AND THE QUANTITY OF WEB STRAPS REQUIRED TO SECURE THE LOAD. VOID SPACES BETWEEN PALLET UNITS WILL FILL IN DURING TRANSPORT CAUSING WEB STRAPPING TO BECOME LOOSE.
5. DURING LONG HAULS, WHEN POSSIBLE, STRAPS SHOULD BE CHECKED DURING VEHICLE STOPS AND TIGHTENED, IF NECESSARY.
6. AFTER ALL LOADING PROCEDURES ARE COMPLETED, CHECK ALL WEB STRAPS FOR MAXIMUM TIGHTNESS AND RATCHET TIGHTER IF REQUIRED, PRIOR TO FOLDING UP AND TAPING THE LOOSE ENDS OF STRAPS AS INSTRUCTED IN GENERAL NOTE "F" ON PAGE 2.
7. BEFORE LOADING A PLS FLATRACK WITH AMMUNITION OR EXPLOSIVES, CHECK THE OVERALL CONDITION OF THE FLATRACK TO ENSURE IT IS SERVICEABLE. CHECK FOR CRACKS, BREAKS, DISTORTIONS, OR EXCESSIVE CORROSION WHICH WOULD MAKE USE OF THE FLATRACK UNSAFE. CHECK THE CARGO TIEDOWN ANCHORS AND THE FLATRACK TIEDOWN DEVICES TO ENSURE THEY ARE SERVICEABLE. MAKE SURE THEY ARE NOT CRACKED, BROKEN, BENT, DISTORTED OR EXCESSIVELY CORRODED TO PRECLUDE SAFE USE. GIVE SPECIAL ATTENTION WHILE CHECKING THE LIFTING DEVICE ON THE HOOKUP END OF THE PLS FLATRACK. MAKE SURE THE HOOKUP DEVICE IS NOT CRACKED, BROKEN, WORN, OR DISTORTED TO SUCH AN EXTENT SO AS TO MAKE THE DEVICE UNSERVICEABLE OR UNSAFE TO USE.
8. CHECK THE END WALLS ON THE M1 FLATRACK TO ASSURE THAT THEY CAN BE RAISED AND/OR LOWERED WITHOUT DIFFICULTY. FOLLOW THE MANUFACTURERS STEP-BY-STEP PROCEDURES FOR RAISING AND/OR LOWERING THE END WALLS AS SERIOUS INJURY OR DEATH TO PERSONNEL COULD RESULT DUE TO THE 1,700 POUND WEIGHT OF THE FRONT WALL AND THE 1,100 POUND WEIGHT OF THE REAR WALL.
9. BOTH FLATRACKS ARE EQUIPPED WITH ELEVEN TIEDOWN ANCHORS ALONG EACH SIDE. THE TIEDOWN ANCHORS AT EACH END AND IN THE CENTER HAVE A 25,000 POUND CAPACITY AND THE REMAINING EIGHT TIEDOWN ANCHORS HAVE A 10,000 POUND CAPACITY. ALL ELEVEN TIEDOWN ANCHORS WILL ACCEPT WEB STRAP TIEDOWN ASSEMBLIES OR STEEL STRAPPING.
10. TWO SETS OF FORKLIFT POCKETS ARE PROVIDED UNDERNEATH THE A-FRAME AND M1 FLATRACK. THE SET NEAR THE ENDS OF THE FLATRACK MUST BE USED WHEN LIFTING LOADED FLATRACKS. THE SET CLOSEST TO THE CENTER OF THE FLATRACK IS FOR LIFTING UNLOADED FLATRACKS ONLY. USE OF THE WRONG FORKLIFT POCKETS COULD CAUSE DAMAGE TO EQUIPMENT. THE FORKS ON THE FORKLIFT MUST BE 70.00" LONG OR LONGER.

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NOTE ④ :

ALL LOADS LISTED IN THE INDEX ABOVE ARE DEPICTED ON THE A-FRAME FLATRACK WITH THE EXCEPTION OF THE LOADS ON PAGES 14, 15 AND 18 THROUGH 23 WHICH ARE DEPICTED ON THE M1 FLATRACK. DUE TO ITS SHORTER LENGTH AND REDUCED LOAD WEIGHT, THE M1 FLATRACK CANNOT ALWAYS BE LOADED WITH THE SAME QUANTITY OF AMMUNITION AS THE A-FRAME FLATRACK. SEE GENERAL NOTE "C" ON PAGE 2.



ISOMETRIC VIEW

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (14 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF A ROW OF PALLET UNITS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 6 ON PAGE 5.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND PALLET BASE/SKID OF REAR ROW AS SHOWN, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

TYPICAL AMMUNITION ITEM

DODIC	ITEM	ITEM QUANTITY	LOAD QUANTITY	TOTAL WEIGHT
0563	PROJ. 155MM. ICM. M483A1 14.62 L X 29.12 W X 39.38 H	296	37 PALLETS	32,338 LBS

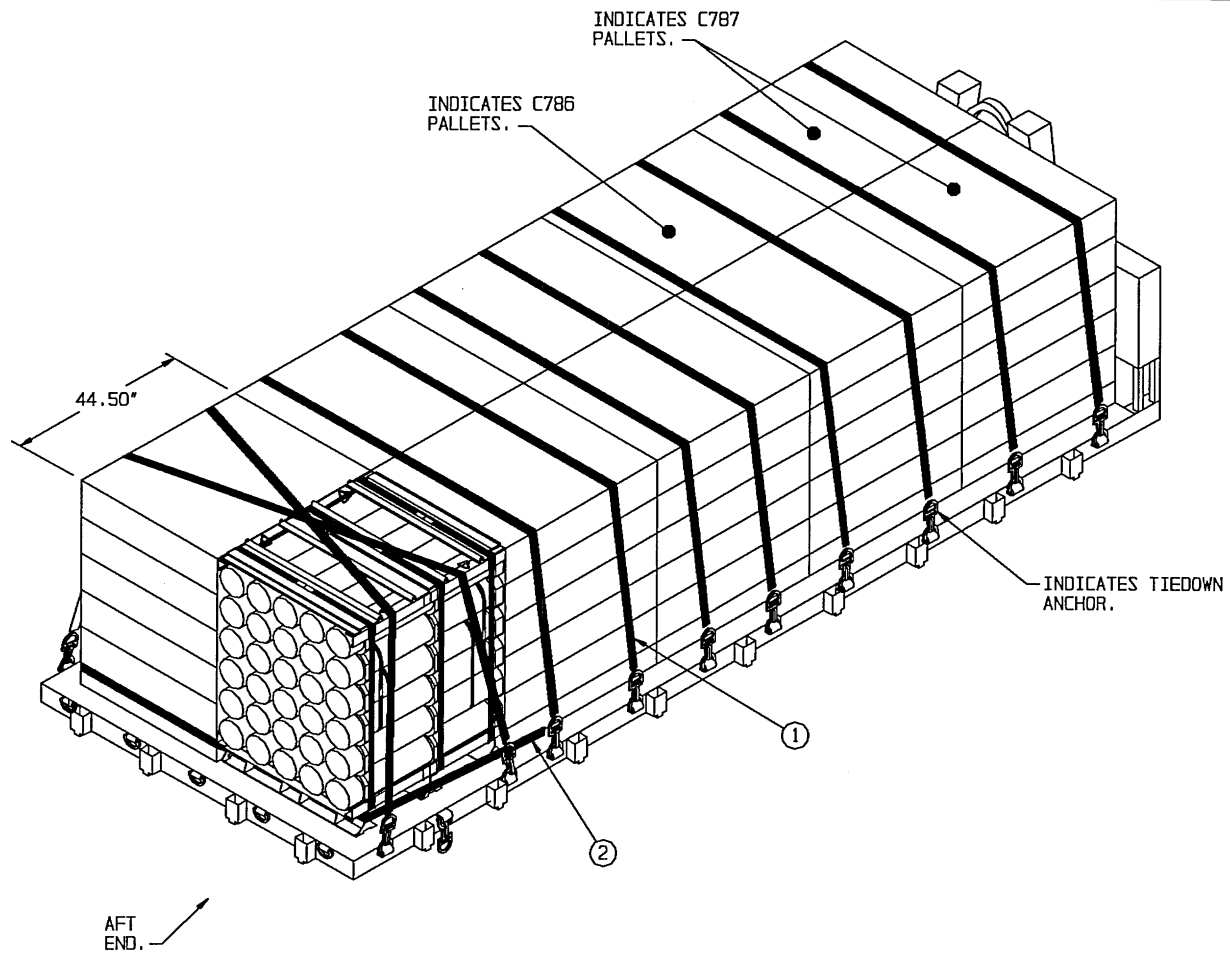
SPECIAL NOTES:

1. A TYPICAL LOAD OF 37 PALLETS OF 155MM SLP IS SHOWN LOADED ON THE A-FRAME FLATRACK HAVING CARGO DECK DIMENSIONS OF 7'-6-1/2" WIDE BY 19'-0" LONG AND A MAXIMUM LOAD WEIGHT OF 33,000 POUNDS.
2. IF LOADING AN M1 FLATRACK HAVING A MAXIMUM LOAD WEIGHT OF 28,750 POUNDS, OMIT THE REARMOST ROW OF FIVE PALLETS. THIS WILL REDUCE THE LOAD QUANTITY FROM 37 PALLETS TO 32 PALLETS AND THE LOAD WEIGHT FROM 32,338 POUNDS TO 27,968 POUNDS. SEE GENERAL NOTE "C" ON PAGE 2.
3. THE PALLET SHOWN IS TYPICAL ONLY. IF LOADING PALLETIZED UNITS OF OTHER ITEMS, SIZES, OR QUANTITIES, FOLLOW THESE SAME PROCEDURES.
4. PRIOR TO LOADING THE SLP PALLETS ASSURE THAT ALL STEEL STRAPPING ON EACH PALLET IS IN POSITION AND IS TIGHT. MISSING AND/OR LOOSE STEEL STRAPPING SHOULD BE REPLACED.
5. WHEN LOADING THE FLATRACK POSITION ONE ROW OF SIX SLP PALLETS TIGHT AGAINST THE A-FRAME AND CENTERED ACROSS THE WIDTH OF THE FLATRACK. POSITION A SECOND ROW OF SIX SLP PALLETS TIGHT AGAINST THE FIRST ROW. POSITION FIVE ROWS OF FIVE SLP PALLETS EACH TIGHT AGAINST EACH OTHER AND THE SECOND ROW OF SIX SLP PALLETS AND CENTERED ACROSS THE WIDTH OF THE FLATRACK.
6. EACH LATERAL ROW OF ONE OR MORE PALLET UNITS MUST BE SECURED WITH TWO WEB STRAPS OVER THE TOP AS SHOWN. THESE TWO STRAPS MAY BE CROSSED AND/OR POSITIONED STRAIGHT ACROSS THE TOP OF A ROW. HOWEVER, THEY MUST BE POSITIONED TO THE INSIDE OF LIFTING RING ON THE NOSE END OF THE END PROJECTILES, OF EACH PALLET UNIT ON THE END OF A ROW. AS SHOW IN THE LOAD ON PAGE 4. THIS WILL ASSURE THAT THERE ARE TWO STRAPS OVER EACH ROW. THE LIFTING RING WILL ALSO HELP TO KEEP THE STRAP IN POSITION.
7. ALL PALLETS MUST BE POSITIONED TIGHTLY AGAINST EACH OTHER Laterally and Longitudinally. THIS WILL REDUCE LOAD MOVEMENT AND THE QUANTITY OF WEB STRAPS REQUIRED TO SECURE THE LOAD. VOID SPACES BETWEEN PALLET UNITS WILL FILL IN DURING TRANSPORT CAUSING WEB STRAPPING TO BECOME LOOSE.
8. A TOTAL OF FIFTEEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD AS SHOWN.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
155MM SLP PLT- - - - -	-37 - - - - -	32,338 LBS

155MM SEPARATE LOADING PROJECTILES



ISOMETRIC VIEW

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (10 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF PALLET UNITS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 8 ON PAGE 7.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND PALLET BASES OF REAR PALLETS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

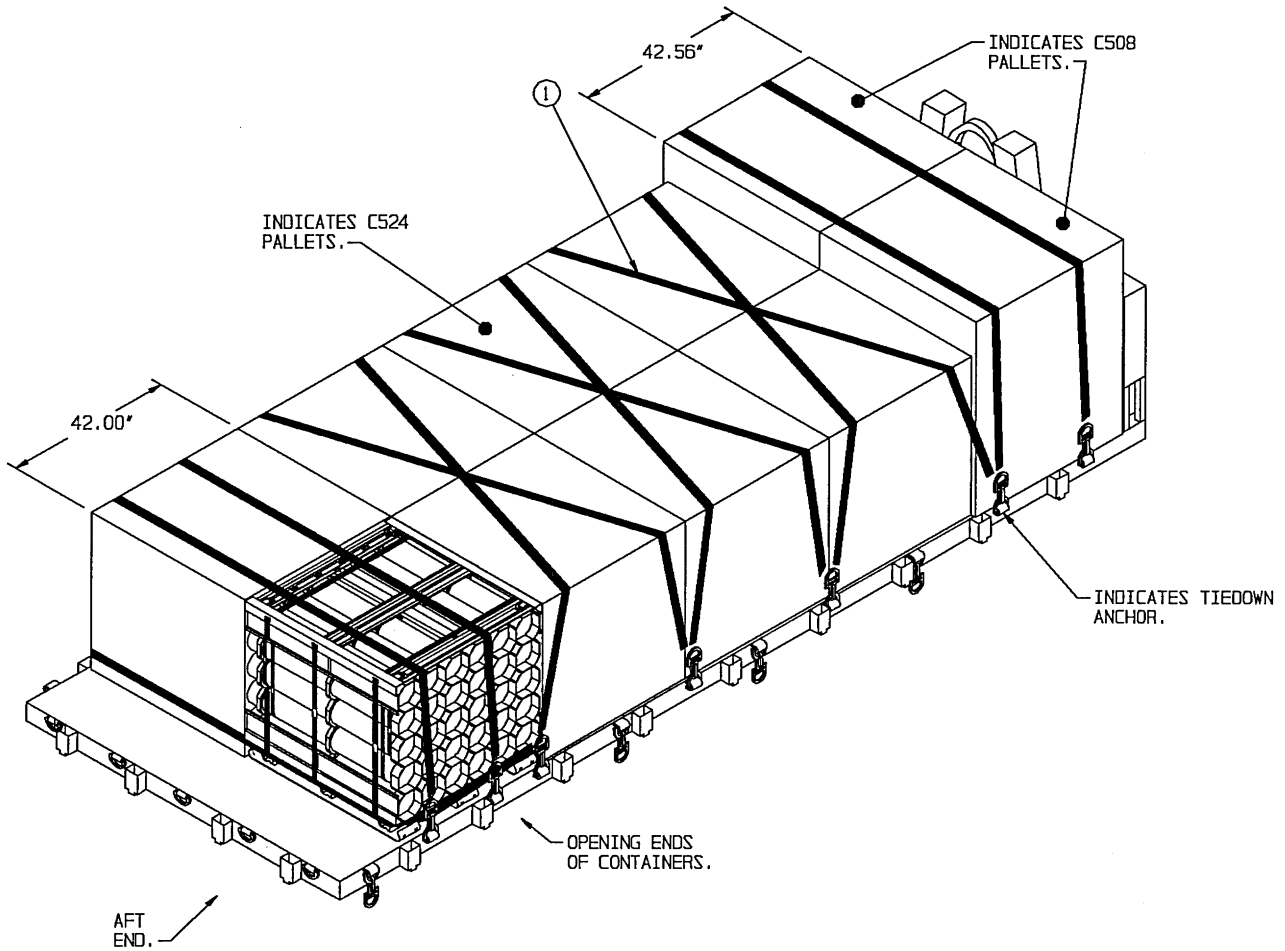
120MM COMBAT CONFIGURED LOAD				
DODIC	ITEM	ITEM QUANTITY	LOAD QUANTITY	TOTAL WEIGHT
C786	120MM COMP RD APFSDS-T 39.50 L X 44.50 W X 51.50 H	240	8 PALLETS	19,128 LBS
C787	120MM COMP RD HEAT-MP-T 40.13 L X 44.50 W X 51.75 H	60	2 PALLETS	4,866 LBS

SPECIAL NOTES:

1. A TYPICAL 120MM COMBAT CONFIGURED LOAD FOR ARMOR IS SHOWN LOADED ON THE A-FRAME FLATRACK HAVING CARGO DECK DIMENSIONS OF 7'-6-1/2" WIDE BY 19'-0" LONG AND A MAXIMUM LOAD WEIGHT OF 33,000 POUNDS.
2. IF LOADING AN M1 FLATRACK HAVING A CARGO DECK 18'-6" LONG, POSITION THE TWO REARMOST PALLETS WITH THE 39.5" DIMENSION PARALLEL TO THE SIDE OF THE FLATRACK IN LIEU OF THE 44.5" DIMENSION. THIS WILL REDUCE THE LOAD LENGTH FROM 18'-6-1/2" LONG TO 18'-1-1/2" LONG. SEE GENERAL NOTE "C" ON PAGE 2.
3. IF FAST UNLOADING OF ROUNDS FROM THE PALLETIZED CONTAINERS IS DESIRED, USE THE PROCEDURES SHOWN FOR THE 105MM COMPLETE ROUNDS IN THE PA117 CONTAINER, ON PAGES 8 AND 9.
4. THE PALLETS SHOWN ARE TYPICAL ONLY. IF LOADING PALLETIZED UNITS OF OTHER ITEMS, SIZES, OR QUANTITIES, FOLLOW THESE SAME PROCEDURES.
5. PRIOR TO LOADING THE 120MM PALLETS ASSURE THAT ALL STEEL STRAPPING ON EACH PALLET IS IN POSITION AND IS TIGHT. MISSING AND/OR LOOSE STEEL STRAPPING SHOULD BE REPLACED.
6. WHEN LOADING THE FLATRACK POSITION THE LOAD TIGHT AGAINST THE A-FRAME AND CENTERED ACROSS THE WIDTH OF THE FLATRACK.
7. IF DESIRED, THE 120MM PALLETS MAY BE POSITIONED WITH THE 39.5" DIMENSION PARALLEL TO THE SIDES OF THE FLATRACK.
8. EACH LATERAL ROW OF TWO 120MM PALLETS MUST BE SECURED WITH TWO WEB STRAPS OVER THE TOP AS SHOWN. THESE TWO STRAPS MAY BE CROSSED AND/OR POSITIONED STRAIGHT ACROSS THE TOP OF A ROW.
9. ALL PALLETS MUST BE POSITIONED TIGHTLY AGAINST EACH OTHER Laterally and Longitudinally. THIS WILL REDUCE LOAD MOVEMENT AND THE QUANTITY OF WEB STRAPS REQUIRED TO SECURE THE LOAD. VOID SPACES BETWEEN PALLET UNITS WILL FILL IN DURING TRANSPORT CAUSING WEB STRAPPING TO BECOME LOOSE.
10. A TOTAL OF ELEVEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD AS SHOWN.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
120MM PALLET - - - - -	10 - - - - -	23,994 LBS



ISOMETRIC VIEW

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (8 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF PALLET UNITS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 8 ON PAGE 9.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND PALLET BASES OF REAR PALLETS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

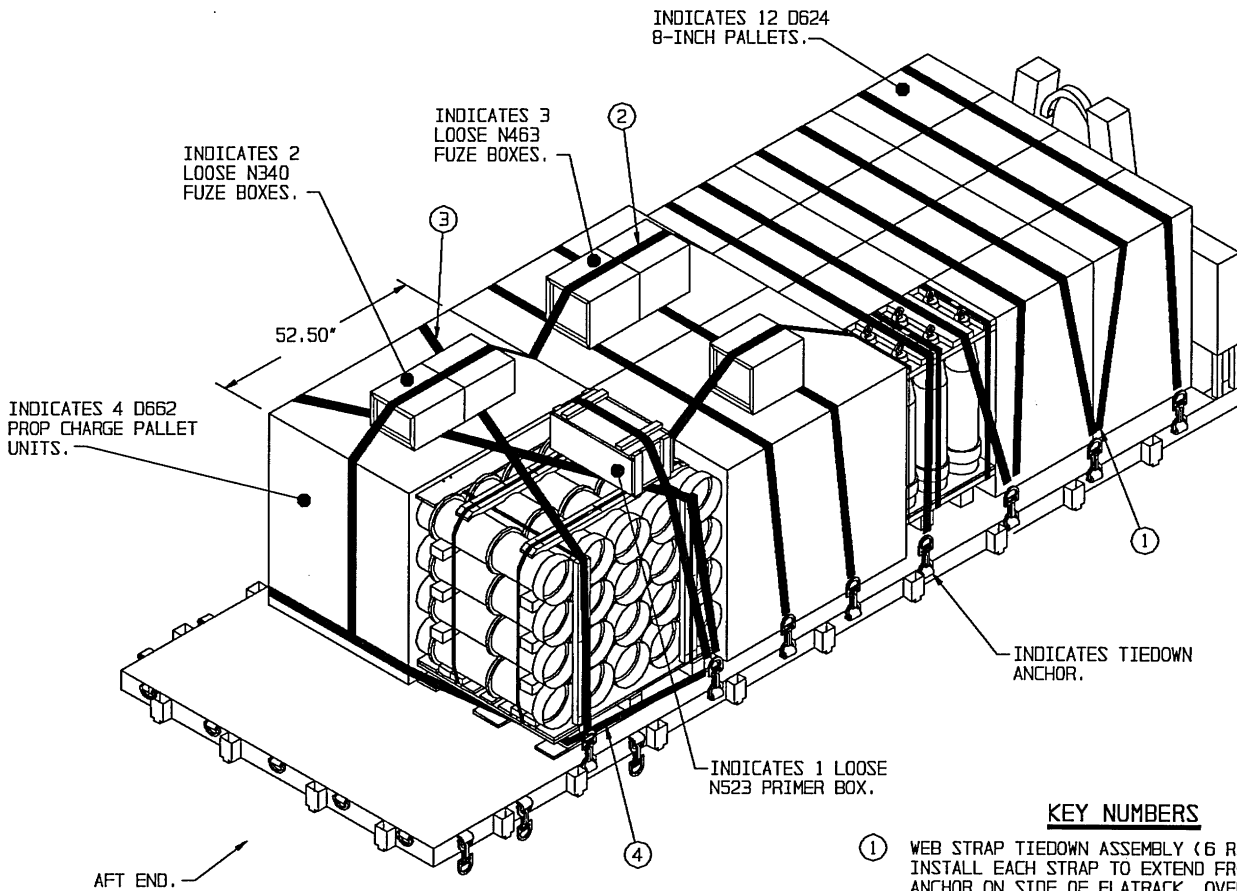
105MM COMBAT CONFIGURED LOAD				
DODIC	ITEM	ITEM QUANTITY	LOAD QUANTITY	TOTAL WEIGHT
C524	105MM COMP RD APFSDS-T 42.75 L X 44.50 W X 40.38 H	240	8 PALLETS	15,352 LBS
C508	105MM COMP RD HEAT 45.81 L X 42.56 W X 49.41 H	60	2 PALLETS	4,388 LBS

SPECIAL NOTES:

1. A TYPICAL 105MM COMBAT CONFIGURED LOAD FOR ARMOR IS SHOWN LOADED ON THE A-FRAME FLATRACK HAVING CARGO DECK DIMENSIONS OF 7'-6-1/2" WIDE BY 19'-0" LONG AND A MAXIMUM LOAD WEIGHT OF 33,000 POUNDS.
2. THE PROCEDURES SHOWN ON PAGE 8 MAY BE USED FOR FAST UNLOADING OF THE COMPLETE ROUNDS FROM THE PALLETIZED CONTAINERS WITHOUT REMOVING THE PALLETS OR CONTAINERS FROM THE FLATRACK. LOOSEN THE TWO STRAPS MARKED ① FOR ACCESS TO ALL CONTAINERS. AFTER COMPLETE ROUNDS ARE REMOVED RATCHET STRAPS MARKED ② TIGHT TO SECURE THE PALLETS.
3. THE LOAD AS SHOWN ON PAGE 8 MAY ALSO BE LOADED ON AN M1 FLATRACK. SEE GENERAL NOTE "C" ON PAGE 2.
4. THE PALLETS SHOWN ARE TYPICAL ONLY. IF LOADING PALLETIZED UNITS OF OTHER ITEMS, SIZES, OR QUANTITIES, FOLLOW THESE SAME PROCEDURES.
5. PRIOR TO LOADING THE 105MM PALLETS ASSURE THAT ALL STEEL STRAPPING ON EACH PALLET IS IN POSITION AND IS TIGHT. MISSING AND/OR LOOSE STEEL STRAPPING SHOULD BE REPLACED.
6. WHEN LOADING THE FLATRACK POSITION THE LOAD TIGHT AGAINST THE A-FRAME AND CENTERED ACROSS THE WIDTH OF THE FLATRACK.
7. IF RAPID UNLOADING IS NOT REQUIRED, THE 105MM PALLETS MAY BE POSITIONED WITH THE 44.50" AND 45.81" DIMENSION PARALLEL TO THE SIDES OF THE FLATRACK.
8. EACH LATERAL ROW OF TWO 105MM PALLETS MUST BE SECURED WITH TWO WEB STRAPS OVER THE TOP AS SHOWN. THESE TWO STRAPS MAY BE CROSSED AND/OR POSITIONED STRAIGHT ACROSS THE TOP OF A ROW.
9. ALL PALLETS MUST BE POSITIONED TIGHTLY AGAINST EACH OTHER Laterally and Longitudinally. THIS WILL REDUCE LOAD MOVEMENT AND THE QUANTITY OF WEB STRAPS REQUIRED TO SECURE THE LOAD. VOID SPACES BETWEEN PALLET UNITS WILL FILL IN DURING TRANSPORT CAUSING WEB STRAPPING TO BECOME LOOSE.
10. NOTE THAT THE TWO PALLETS OF C508 AT THE FORWARD END OF THE LOAD EXCEED THE FLATRACK CARGO DECK WIDTH BY 1.12" AND MAY PREVENT THE USE OF THE FLATRACK SIDE WALLS. IF DESIRED, THE TWO C508 PALLETS MAY BE POSITIONED AT THE AFT END OF THE FLATRACK WITH THE 45.81" DIMENSION PARALLEL TO THE SIDES OF THE FLATRACK. THIS WOULD STILL ALLOW RAPID UNLOADING BUT ACCESS WOULD BE FROM THE AFT END OF THE FLATRACK IN LIEU OF THE SIDE.
11. A TOTAL OF ELEVEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD AS SHOWN.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
105MM PALLET - - - - -	10 - - - - -	19,492 LBS



ISOMETRIC VIEW

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (6 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF A ROW OF PALLET UNITS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 6 ON PAGE 11.
- ② WEB STRAP TIEDOWN ASSEMBLY (4 REQD). PRE-POSITION EACH STRAP UNDER TOP DECK OF PALLET BASE AT LOCATION DESIRED PRIOR TO POSITIONING PALLETS TIGHT AGAINST EACH OTHER. AFTER STRAPS MARKED ③ ARE INSTALLED AND RATCHETED TIGHT POSITION LOOSE BOXES ON TOP OF PALLET UNITS. BRING ENDS OF STRAPS MARKED ② UP OVER TOP OF LOOSE BOXES AND HOOK ENDS OF STRAP TOGETHER, POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (4 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF PALLET UNITS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. DO NOT POSITION THESE STRAPS OVER TOP OF LOOSE BOXES. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 6 ON PAGE 11.
- ④ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND PALLET BASE OF REAR PALLETS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

8-INCH COMBAT CONFIGURED LOAD

DDOIC	ITEM	ITEM QUANTITY	LOAD QUANTITY	TOTAL WEIGHT
D662	PROP CHG. 8-INCH 52.50 L X 40.75 W X 48.50 H	80	4 PALLETS	6,952 LBS
D624	PROJ. 8-INCH, M650 19.37 L X 28.50 W X 45.62 H	72	12 PALLETS	15,036 LBS
N340	FUZE, M739 14.63 L X 12.81 W X 8.56 H	32	2 BOXES	92 LBS
N463	FUZE, M728 14.63 L X 12.75 W X 12.00 H	48	3 BOXES	142 LBS
N523	PRIMER, M82 24.13 L X 12.00 W X 11.25 H	500	1 BOX	37 LBS

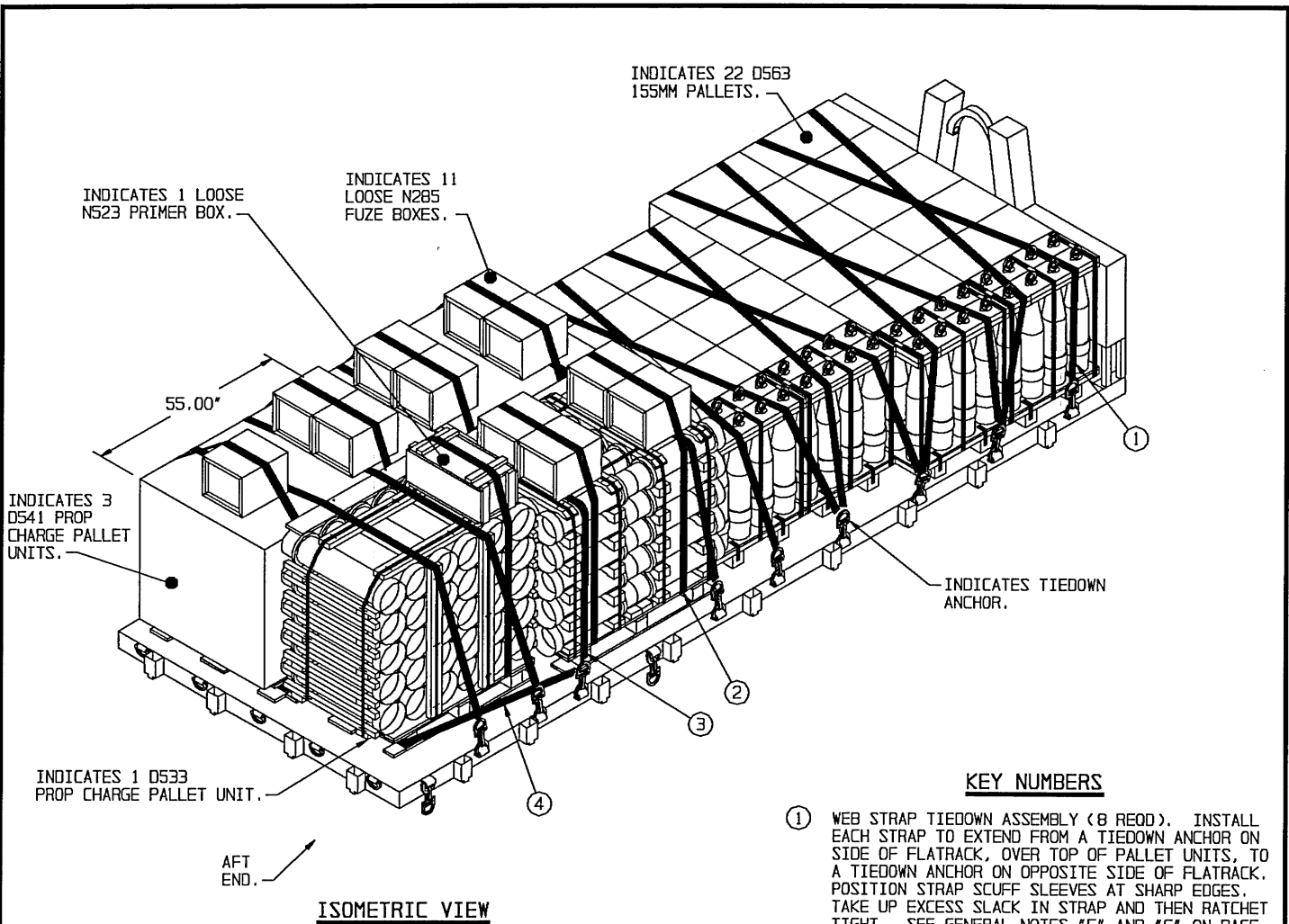
8-INCH COMBAT CONFIGURED LOAD FOR FIELD ARTILLERY

SPECIAL NOTES:

1. A TYPICAL 8-INCH COMBAT CONFIGURED LOAD FOR FIELD ARTILLERY IS SHOWN LOADED ON THE A-FRAME FLATRACK HAVING CARGO DECK DIMENSIONS OF 7'-6-1/2" WIDE BY 19'-0" LONG AND A MAXIMUM LOAD WEIGHT OF 33,000 POUNDS.
2. THE LOAD AS SHOWN ON PAGE 10 MAY ALSO BE LOADED ON THE M1 FLATRACK. SEE GENERAL NOTE "C" ON PAGE 2.
3. THE LOAD SHOWN IS TYPICAL ONLY. IF LOADING UNITS OF OTHER ITEMS, SIZES, OR QUANTITIES, FOLLOW THESE SAME PROCEDURES.
4. PRIOR TO LOADING THE SLP AND PROPELLING CHARGE PALLETS ASSURE THAT ALL STEEL STRAPPING ON EACH PALLET IS IN POSITION AND IS TIGHT. MISSING AND/OR LOOSE STEEL STRAPPING SHOULD BE REPLACED.
5. WHEN LOADING THE FLATRACK POSITION THREE ROWS OF FOUR SLP PALLETS TIGHT AGAINST THE A-FRAME AND CENTERED ACROSS THE WIDTH OF THE FLATRACK. POSITION TWO ROWS OF TWO PROP CHARGE PALLETS TIGHT AGAINST THE SLP PALLETS AND CENTERED ACROSS THE WIDTH OF THE FLATRACK. POSITION LOOSE BOXES OF FUZES AND PRIMERS ON TOP OF PALLET UNITS AS LOADING PROGRESSES.
6. EACH LATERAL ROW OF ONE OR MORE PALLET UNITS MUST BE SECURED WITH TWO WEB STRAPS OVER THE TOP AS SHOWN. THESE TWO STRAPS MAY BE CROSSED AND/OR POSITIONED STRAIGHT ACROSS THE TOP OF A ROW. THESE STRAPS MUST NOT BE POSITIONED OVER TOP OF THE LOOSE BOXES.
7. ALL PALLETS MUST BE POSITIONED TIGHTLY AGAINST EACH OTHER Laterally and Longitudinally. THIS WILL REDUCE LOAD MOVEMENT AND THE QUANTITY OF WEB STRAPS REQUIRED TO SECURE THE LOAD. VOID SPACES BETWEEN PALLET UNITS WILL FILL IN DURING TRANSPORT CAUSING WEB STRAPPING TO BECOME LOOSE.
8. A TOTAL OF FIFTEEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD AS SHOWN.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
8-INCH CCL - - - - -	1 - - - - -	22,259 LBS



KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (8 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF PALLET UNITS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 6 ON PAGE 13.
- ② WEB STRAP TIEDOWN ASSEMBLY (7 REQD). PRE-POSITION EACH STRAP UNDER TOP DECK OF PALLET AT LOCATION DESIRED PRIOR TO POSITIONING PALLETS TIGHT AGAINST EACH OTHER. POSITION LOOSE BOXES ON TOP OF PALLET UNITS. **NOTE:** IF ANY STRAPS MARKED ③ HAVE TO BE POSITIONED UNDER LOOSE BOXES DO SO AT THIS TIME. BRING ENDS OF STRAPS MARKED ② UP OVER TOP OF LOOSE BOXES AND HOOK ENDS TOGETHER, POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (4 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF PALLET UNITS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. DO NOT POSITION THESE STRAPS OVER TOP OF LOOSE BOXES. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 6 ON PAGE 13.
- ④ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND PALLET BASES OF REAR PALLETS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

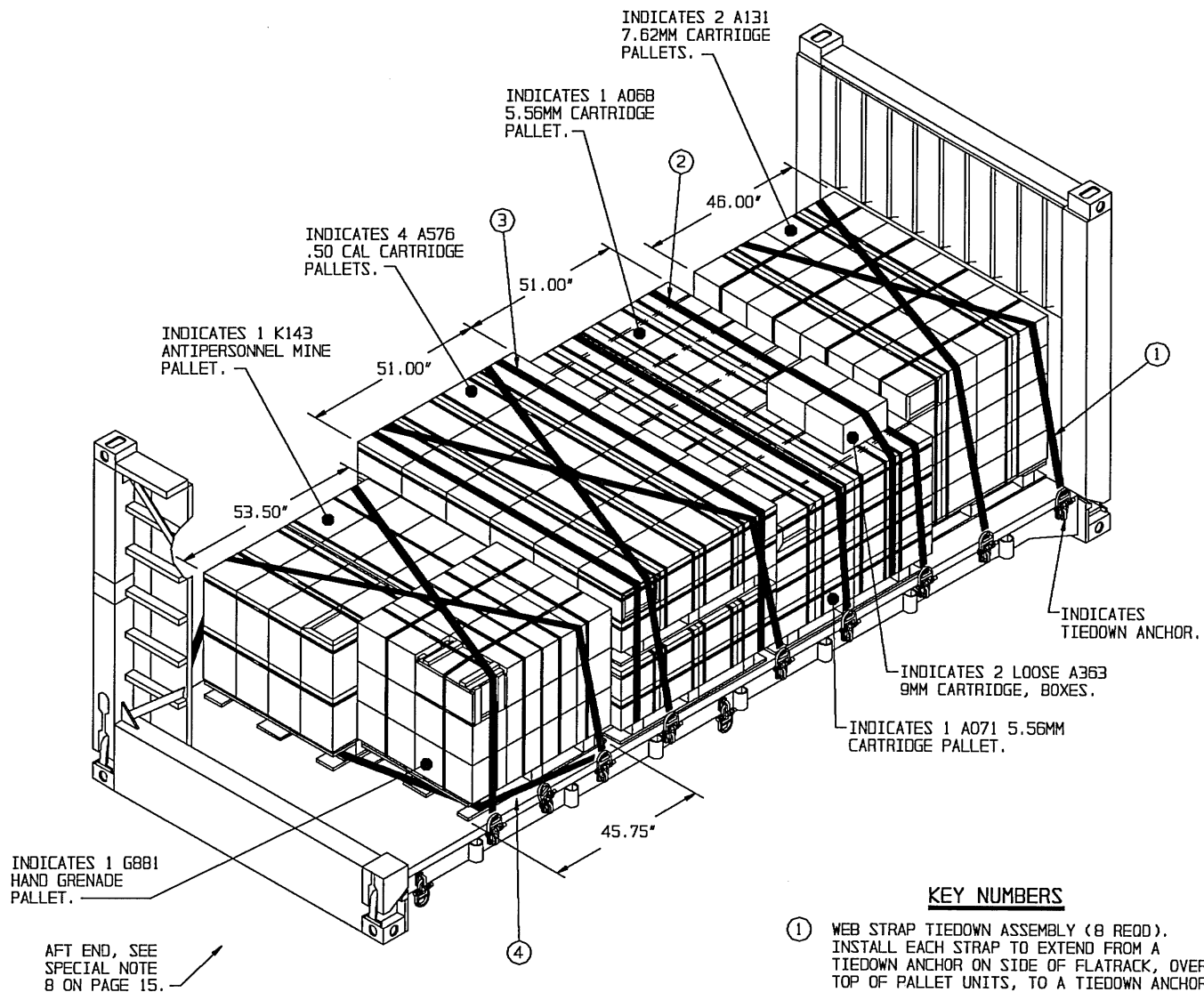
155MM COMBAT CONFIGURED LOAD				
DDIIC	ITEM	ITEM QUANTITY	LOAD QUANTITY	TOTAL WEIGHT
D533	PROP CHG. 155MM, WB M119 45.50 L X 35.75 W X 49.00 H	30	1 PALLET	1,562 LBS
D541	PROP CHG. 155MM, WB M4 55.00 L X 40.00 W X 44.88 H	150	3 PALLETS	5,298 LBS
D563	PROJ. 155MM, ICM. M483A1 14.62 L X 29.12 W X 39.38 H	176	22 PALLETS	19,228 LBS
N285	FUZE, MTSQ. M577 14.63 L X 12.75 W X 9.18 H	176	11 BOXES	600 LBS
N523	PERCUSSION PRIMER, M82 24.13 L X 12.00 W X 11.25 H	500	1 BOX	62 LBS

SPECIAL NOTES:

1. A TYPICAL 155MM COMBAT CONFIGURED LOAD FOR FIELD ARTILLERY IS SHOWN LOADED ON THE A-FRAME FLATRACK HAVING CARGO DECK DIMENSIONS OF 7'-6-1/2" WIDE BY 19'-0" LONG AND A MAXIMUM LOAD WEIGHT OF 33,000 POUNDS.
2. IF LOADING AN M1 FLATRACK HAVING A CARGO DECK 18'-6" LONG, TURN THE REARMOST PALLET OF 155MM PROP CHARGES (D541) 90° SO THE 40" DIMENSION IS PARALLEL TO THE SIDE OF THE FLATRACK IN LIEU OF THE 55" DIMENSION. THIS WILL REDUCE THE LOAD LENGTH FROM 18'-10-1/2" TO 18'-1" LONG. NOTE: THE WIDTH OF THESE TWO PALLETS COMBINED WILL BE 7'-6-3/4". SEE GENERAL NOTE "C" ON PAGE 2.
3. THE LOAD SHOWN IS TYPICAL ONLY. IF LOADING UNITS OF OTHER ITEMS, SIZES, OR QUANTITIES, FOLLOW THESE SAME PROCEDURES.
4. PRIOR TO LOADING THE SLP AND PROPELLING CHARGE PALLETS ASSURE THAT ALL STEEL STRAPPING ON EACH PALLET IS IN POSITION AND IS TIGHT. MISSING AND/OR LOOSE STEEL STRAPPING SHOULD BE REPLACED.
5. WHEN LOADING THE FLATRACK POSITION TWO ROWS OF SIX SLP PALLETS TIGHT AGAINST THE A-FRAME AND CENTERED ACROSS THE WIDTH OF THE FLATRACK. POSITION TWO ROWS OF FIVE SLP PALLETS TIGHT AGAINST THE LAST ROW OF 6 PALLETS AND CENTERED ACROSS THE WIDTH OF THE FLATRACK. POSITION TWO ROWS OF TWO PROP CHARGE PALLETS TIGHT AGAINST THE SLP PALLETS AND CENTERED ACROSS THE WIDTH OF THE FLATRACK, THEN POSITION ONE PROP CHARGE PALLET TIGHT AGAINST THE LOAD. POSITION LOOSE BOXES OF FUZES AND PRIMERS ON TOP OF PALLET UNITS AS LOADING PROGRESSES.
6. EACH LATERAL ROW OF ONE OR MORE PALLET UNITS MUST BE SECURED WITH TWO WEB STRAPS OVER THE TOP AS SHOWN. THESE TWO STRAPS MAY BE CROSSED AND/OR POSITIONED STRAIGHT ACROSS THE TOP OF A ROW. THESE STRAPS MUST NOT BE POSITIONED OVER TOP OF THE LOOSE BOXES.
7. ALL PALLETS MUST BE POSITIONED TIGHTLY AGAINST EACH OTHER Laterally and Longitudinally. THIS WILL REDUCE LOAD MOVEMENT AND THE QUANTITY OF WEB STRAPS REQUIRED TO SECURE THE LOAD. VOID SPACES BETWEEN PALLET UNITS WILL FILL IN DURING TRANSPORT CAUSING WEB STRAPPING TO BECOME LOOSE.
8. A TOTAL OF TWENTY WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD AS SHOWN.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
155MM CCL	----- 1 -----	26,750 LBS



ISOMETRIC VIEW

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (8 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF PALLET UNITS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 5 ON PAGE 15.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD). PRE-POSITION STRAP UNDER TOP DECK OF PALLET AT LOCATION DESIRED PRIOR TO POSITIONING PALLETS TIGHT AGAINST EACH OTHER. POSITION LOOSE BOXES ON TOP OF PALLET UNIT. BRING ENDS OF STRAP UP OVER TOP OF LOOSE BOXES AND HOOK ENDS TOGETHER. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). HOOK TWO STRAPS TOGETHER AND ENCIRCLE ALL FOUR .50 CAL (A576) PALLETS AT TWO PLACES. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND PALLET BASES OF REAR PALLETS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

SMALL ARMS COMBAT CONFIGURED LOAD

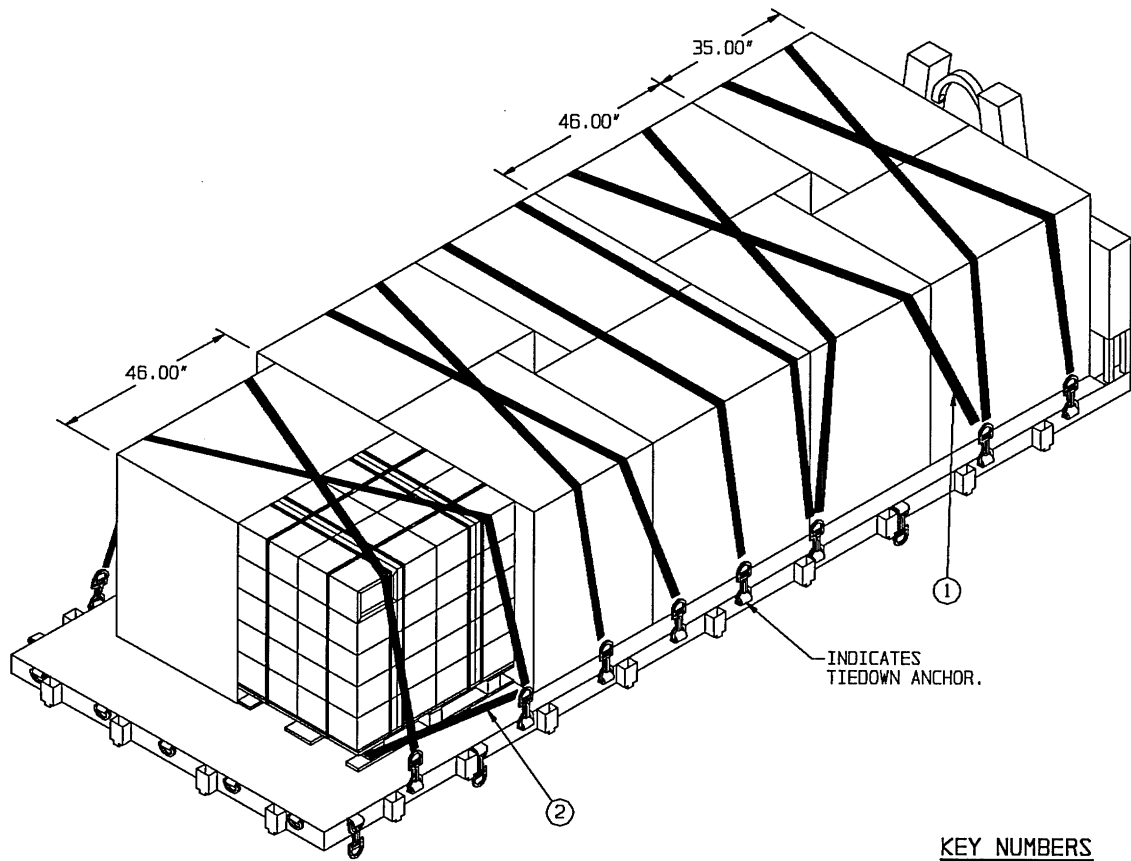
DDIC	ITEM	ITEM QUANTITY	LOAD QUANTITY	TOTAL WEIGHT
A131	7.62MM CARTRIDGE, LKD 4/1 46.00 L X 35.00 W X 46.12 H	64,000	2 PALLETS	6,362 LBS
A068	5.56MM CARTRIDGE, TRACER 51.00 L X 43.50 W X 39.00 H	78,720	1 PALLET	3,016 LBS
A071	5.56MM CARTRIDGE, BALL 51.00 L X 43.50 W X 39.00 H	80,640	1 PALLET	3,388 LBS
A576	.50 CAL CARTRIDGE LKD 4/1 51.00 L X 43.50 W X 22.25 H	19,200	4 PALLETS	8,408 LBS
G881	HAND GRENADE, FRAG 45.75 L X 37.87 W X 39.25 H	720	1 PALLET	1,309 LBS
K143	MINE, ANTIPERSONNEL 53.50 L X 42.25 W X 35.75 H	192	1 PALLET	1,808 LBS
A363	9MM CARTRIDGE, BALL 14.43 L X 12.53 W X 8.12 H	4,000	2 BOXES	160 LBS

SPECIAL NOTES:

1. A TYPICAL SMALL ARMS COMBAT CONFIGURED LOAD FOR INFANTRY IS SHOWN LOADED ON THE M1 FLATRACK HAVING CARGO DECK DIMENSIONS OF 7'-6-1/2" WIDE BY 18'-6" LONG AND A MAXIMUM LOAD WEIGHT OF 28,750 POUNDS.
2. THE LOAD AS SHOWN ON PAGE 14 MAY ALSO BE LOADED ON AN A-FRAME FLATRACK. SEE GENERAL NOTE "C" ON PAGE 2.
3. THE LOAD SHOWN IS TYPICAL ONLY. IF LOADING UNITS OF OTHER ITEMS, SIZES, OR QUANTITIES, FOLLOW THESE SAME PROCEDURES.
4. PRIOR TO LOADING THE SMALL ARMS PALLETS ASSURE THAT ALL STEEL STRAPPING ON EACH PALLET IS IN POSITION AND IS TIGHT. MISSING AND/OR LOOSE STEEL STRAPPING SHOULD BE REPLACED.
5. WHEN LOADING THE FLATRACK, POSITION THE LOAD TIGHT AGAINST THE FORWARD END WALL AND CENTERED ACROSS THE WIDTH OF THE FLATRACK.
6. EACH LATERAL ROW OF ONE OR MORE PALLET UNITS MUST BE SECURED WITH TWO WEB STRAPS OVER THE TOP AS SHOWN. THESE TWO STRAPS MAY BE CROSSED AND/OR POSITIONED STRAIGHT ACROSS THE TOP OF A ROW. THESE TWO STRAPS MUST NOT BE POSITIONED OVER TOP OF LOOSE BOXES.
7. ALL PALLETS MUST BE POSITIONED TIGHT AGAINST EACH OTHER Laterally and Longitudinally. THIS WILL REDUCE LOAD MOVEMENT AND THE QUANTITY OF WEB STRAPS REQUIRED TO SECURE THE LOAD. VOID SPACES BETWEEN PALLET UNITS WILL FILL IN DURING TRANSPORT CAUSING WEB STRAPPING TO BECOME LOOSE.
8. ONLY A PARTIAL AFT END WALL IS SHOWN ON THE ISOMETRIC VIEW TO PREVENT DISTRACTION OF THE LOADING AND TIEDOWN PROCEDURES AND TO IMPROVE THE CLARITY OF THE DEPICTED PROCEDURES.
9. A TOTAL OF FOURTEEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD AS SHOWN.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
SMALL ARMS CCL	1	24,451 LBS



AFT END. →

ISOMETRIC VIEW

INDICATES TIEDOWN ANCHOR.

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (10 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF PALLET UNITS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 7 ON PAGE 17.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND PALLET BASES OF REAR ROW AS SHOWN, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

TYPICAL AMMUNITION ITEM				
DODIC	ITEM	ITEM QUANTITY	LOAD QUANTITY	TOTAL WEIGHT
A131	7.62MM CTG 46.00 L X 35.00 W X 46.12 H	320,000	10 PALLETS	31,810 LBS

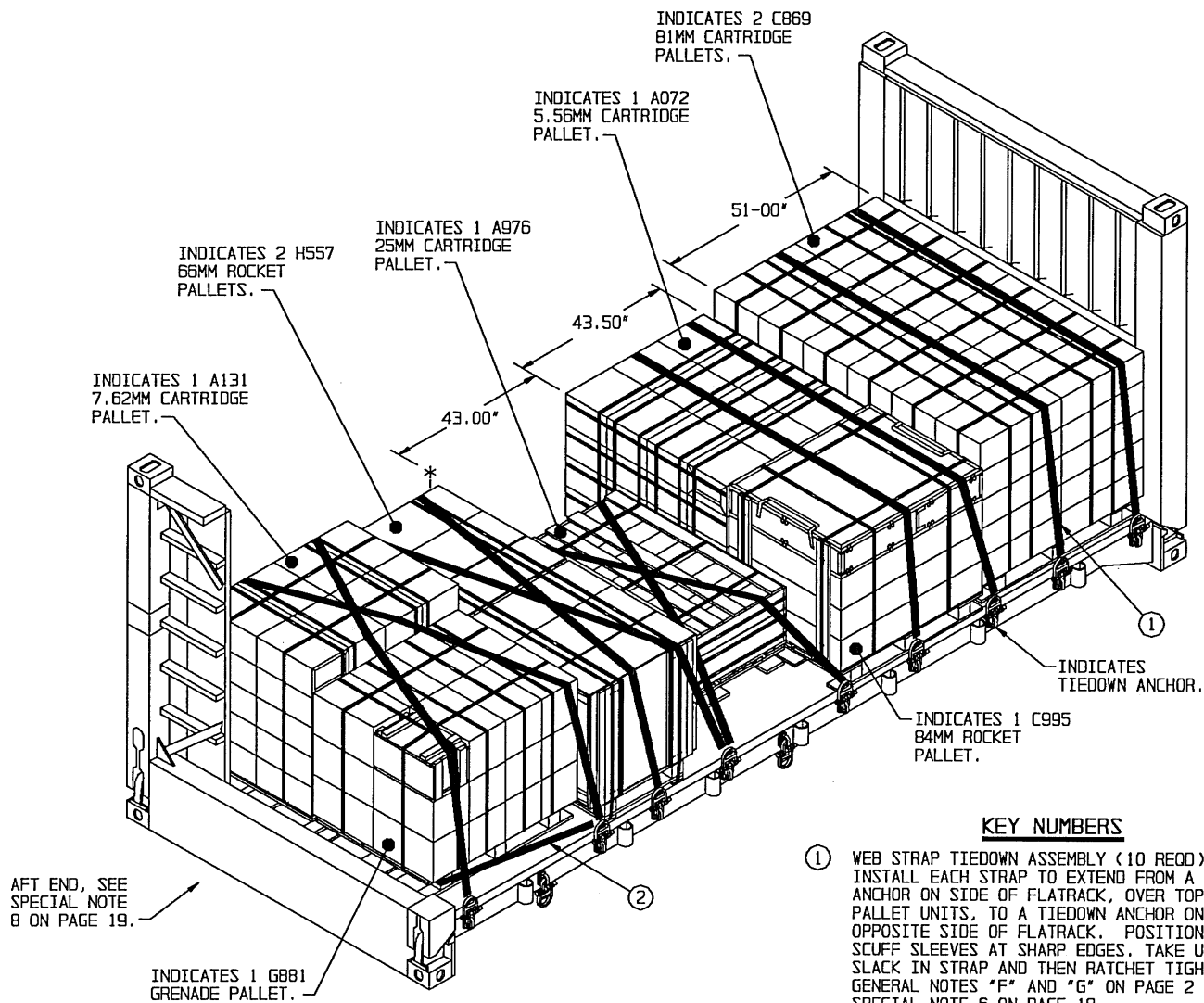
7.62MM CARTRIDGE (CHIMNEY PATTERN LOAD)

SPECIAL NOTES:

1. A TYPICAL CHIMNEY PATTERN LOAD OF 10 PALLETS OF 7.62MM CARTRIDGES IS SHOWN LOADED ON THE A-FRAME FLATRACK HAVING CARGO DECK DIMENSIONS OF 7'-6-1/2" WIDE BY 19'-0" LONG AND A MAXIMUM LOAD WEIGHT OF 33,000 POUNDS.
2. IF LOADING AN M1 FLATRACK HAVING A MAXIMUM LOAD WEIGHT OF 28,750 POUNDS, OMIT ONE PALLET FROM AFT END. THIS WILL REDUCE THE LOAD QUANTITY TO 9 PALLETS AND THE LOAD WEIGHT TO 28,629 POUNDS. SEE GENERAL NOTE "C" ON PAGE 2. GENERAL NOTE "C" ON PAGE 2.
3. A CHIMNEY PATTERN LOAD MAY BE USED TO REDUCE THE LOAD LENGTH AND/OR INCREASE THE LOAD QUANTITY. FOR EXAMPLE, IF THE PALLETS SHOWN IN THE LOAD ON PAGE 16 WERE POSITIONED TWO WIDE AND FOUR LONG WITH THE 46.00" DIMENSION PARALLEL TO THE SIDE OF THE FLATRACK THERE WOULD BE ENOUGH ROOM AT THE AFT END TO POSITION ONE MORE PALLET WITH THE 35.00" DIMENSION PARALLEL TO THE SIDE OF THE FLATRACK FOR A MAXIMUM LOAD OF NINE PALLETS. HOWEVER, BY POSITIONING EIGHT PALLETS IN A CHIMNEY PATTERN ENOUGH SPACE IS GAINED TO POSITION TWO MORE PALLETS AT THE AFT END FOR A LOAD QUANTITY OF TEN PALLETS. NOTE: WHEN LOADING PALLETS IN A CHIMNEY PATTERN THE PALLET LENGTH PLUS THE PALLET WIDTH MUST NOT EXCEED THE CARGO DECK WIDTH OF THE FLATRACK (REF: 7'-6-1/2"). FOR AN ALTERNATIVE METHOD SEE THE LOAD ON PAGES 24 AND 25.
4. THE PALLET SHOWN IS TYPICAL ONLY. IF LOADING PALLETIZED UNITS OF OTHER ITEMS, SIZES, OR QUANTITIES, FOLLOW THESE SAME PROCEDURES.
5. PRIOR TO LOADING THE 7.62MM CARTRIDGE PALLETS ASSURE THAT ALL STEEL STRAPPING ON EACH PALLET IS IN POSITION AND IS TIGHT. MISSING AND/OR LOOSE STEEL STRAPPING SHOULD BE REPLACED.
6. WHEN LOADING THE FLATRACK, POSITION THE LOAD TIGHT AGAINST THE A-FRAME AND CENTERED ACROSS THE WIDTH OF THE FLATRACK.
7. EACH PALLET UNIT MUST BE SECURED WITH TWO WEB STRAPS OVER THE TOP AS SHOWN. THESE TWO STRAPS MAY BE CROSSED AND/OR POSITIONED STRAIGHT ACROSS THE TOP OF A ROW.
8. ALL PALLETS MUST BE POSITIONED TIGHTLY AGAINST EACH OTHER Laterally and Longitudinally. THIS WILL REDUCE LOAD MOVEMENT AND THE QUANTITY OF WEB STRAPS REQUIRED TO SECURE THE LOAD. VOID SPACES BETWEEN PALLET UNITS WILL FILL IN DURING TRANSPORT CAUSING WEB STRAPPING TO BECOME LOOSE.
9. A TOTAL OF ELEVEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD AS SHOWN.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
7.62MM PALLET	- - - - -10 - - - - -	31,810 LBS



ISOMETRIC VIEW

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (10 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF PALLET UNITS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 6 ON PAGE 19.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND PALLET BASES OF REAR ROW AS SHOWN, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES, TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

TYPICAL AMMUNITION ITEMS

DDIC	ITEM	ITEM QUANTITY	LOAD QUANTITY	TOTAL WEIGHT
C869	81MM CARTRIDGE 51.00 L X 42.00 W X 44.87 H	180	2 PALLETS	3,596 LBS
A072	5.56MM CARTRIDGE 51.00 L X 43.50 W X 39.00 H	80,640	1 PALLET	3,401 LBS
C995	84MM, AT4 ROCKET 45.87 L X 35.50 W X 39.00 H	20	1 PALLET	529 LBS
A976	25MM CTG, M621 CNTR 53.00 L X 43.00 W X 21.37 H	810	1 PALLET	1,515 LBS
H557	66MM ROCKET, LAW 41.25 L X 33.50 W X 36.87 H	90	2 PALLETS	796 LBS
A131	7.62MM CARTRIDGE 46.00 L X 35.00 W X 46.12 H	32,000	1 PALLET	3,181 LBS
G881	HAND GRENADES 45.75 L X 37.87 W X 39.25 H	720	1 PALLET	1,309 LBS

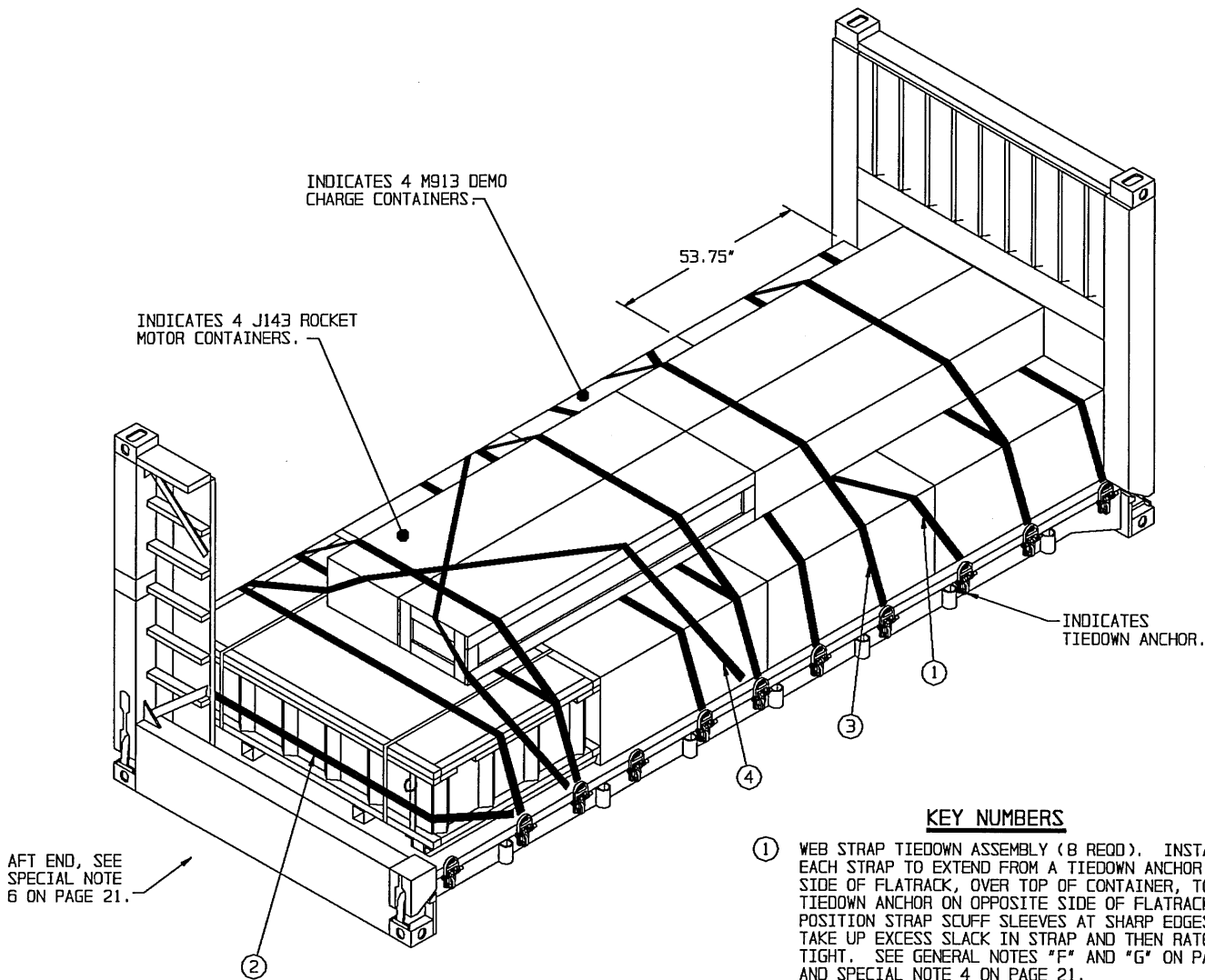
SPECIAL NOTES:

1. A TYPICAL LOAD OF MIXED BOXED AMMUNITION IS SHOWN LOADED ON THE M1 FLATRACK HAVING CARGO DECK DIMENSIONS OF 7'-6-1/2" WIDE BY 18'-6" LONG AND A MAXIMUM LOAD WEIGHT OF 28,750 POUNDS.
2. THE LOAD SHOWN ON PAGE 18 MAY ALSO BE LOADED ON AN A-FRAME FLATRACK. SEE GENERAL NOTE "C" ON PAGE 2.
3. THE LOAD SHOWN IS TYPICAL ONLY. IF LOADING PALLETIZED UNITS OF OTHER ITEMS, SIZES, OR QUANTITIES, FOLLOW THESE SAME PROCEDURES. NOTE: THE PALLET LENGTH PLUS THE PALLET WIDTH CAN NOT EXCEED 7'-6-1/2".
4. PRIOR TO LOADING THE PALLETS, ASSURE THAT ALL STEEL STRAPPING ON EACH PALLET IS IN POSITION AND IS TIGHT. MISSING AND/OR LOOSE STEEL STRAPPING SHOULD BE REPLACED.
5. WHEN LOADING THE FLATRACK, POSITION THE LOAD TIGHT AGAINST THE FORWARD END WALL AND CENTERED ACROSS THE WIDTH OF THE FLATRACK.
6. EACH LATERAL ROW OF TWO PALLETS MUST BE SECURED WITH TWO WEB STRAPS OVER THE TOP AS SHOWN. THESE TWO STRAPS MAY BE CROSSED AND/OR POSITIONED STRAIGHT ACROSS THE TOP OF A ROW.
7. ALL PALLETS MUST BE POSITIONED TIGHTLY AGAINST EACH OTHER Laterally AND LONGITUDINALLY. THIS WILL REDUCE LOAD MOVEMENT AND THE QUANTITY OF WEB STRAPS REQUIRED TO SECURE THE LOAD. VOID SPACES BETWEEN PALLET UNITS WILL FILL IN DURING TRANSPORT CAUSING WEB STRAPPING TO BECOME LOOSE.
8. ONLY A PARTIAL AFT END WALL IS SHOWN ON THE ISOMETRIC VIEW TO PREVENT DISTRACTION OF THE LOADING AND TIEDOWN PROCEDURES AND TO IMPROVE THE CLARITY OF THE DEPICTED PROCEDURES.
9. A TOTAL OF ELEVEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD AS SHOWN.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
MIXED PALLETS	----- 9 -----	14,327 LBS

MIXED BOXED AMMUNITION



ISOMETRIC VIEW

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (8 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF CONTAINER, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 4 ON PAGE 21.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND REAR CONTAINER, AS SHOWN, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (4 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF ROCKET MOTOR BOX, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, DIAGONALLY OVER AFT END OF BOX, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

M58A3 LINEAR DEMOLITION CHARGE (MICLIC) CCL				
DODIC	ITEM	ITEM QUANTITY	LOAD QUANTITY	TOTAL WEIGHT
M913	DEMO CHARGE M58A3 83.25 L X 53.75 W X 24.75 H	4	4 CNTRS	11,600 LBS
J143	5-INCH ROCKET MOTOR 92.50 L X 22.50 W X 13.50 H	4	4 BOXES	800 LBS

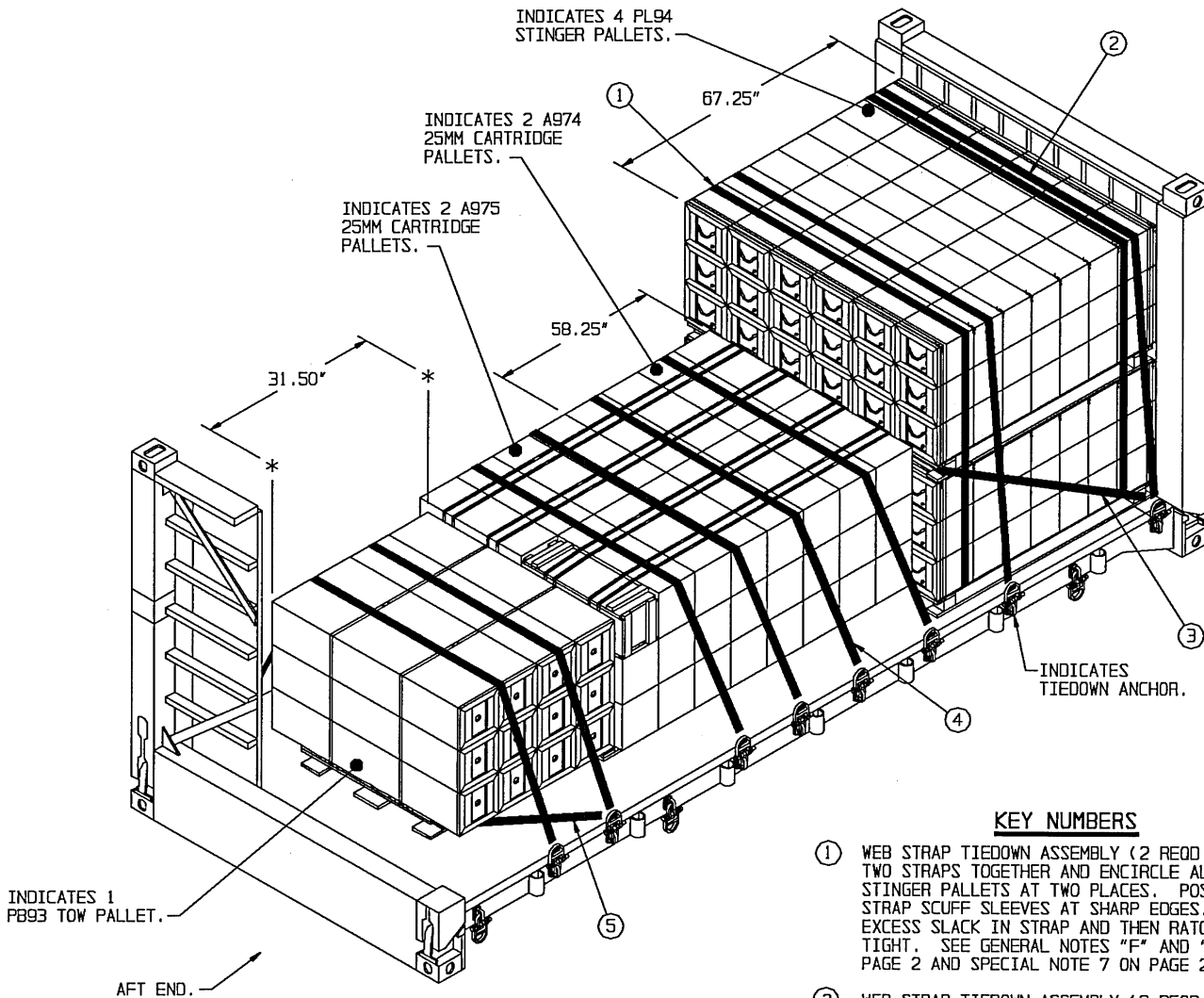
M58A3 LINEAR DEMOLITION CHARGE (MICLIC) COMBAT CONFIGURED LOAD FOR ENGINEERS

SPECIAL NOTES:

1. A TYPICAL MICLIC DEMOLITION CHARGE COMBAT CONFIGURED LOAD FOR ENGINEERS IS SHOWN LOADED ON THE M1 FLATRACK HAVING CARGO DECK DIMENSIONS OF 7'-6-1/2" WIDE BY 18'-6" LONG AND A MAXIMUM LOAD WEIGHT OF 28,750 POUNDS.
2. THE LOAD SHOWN ON PAGE 20 MAY ALSO BE LOADED ON AN A-FRAME FLATRACK. SEE GENERAL NOTE "C" ON PAGE 2.
3. WHEN LOADING THE FLATRACK, POSITION THE LOAD TIGHT AGAINST THE FORWARD END WALL AND CENTERED ACROSS THE WIDTH OF THE FLATRACK.
4. EACH CONTAINER MUST BE SECURED WITH TWO WEB STRAPS OVER THE TOP AS SHOWN. THESE TWO STRAPS MAY BE CROSSED AND/OR POSITIONED STRAIGHT ACROSS THE TOP.
5. ALL CONTAINERS MUST BE POSITIONED TIGHTLY AGAINST EACH OTHER Laterally AND LONGITUDINALLY. THIS WILL REDUCE LOAD MOVEMENT AND THE QUANTITY OF WEB STRAPS REQUIRED TO SECURE THE LOAD. VOID SPACES BETWEEN CONTAINERS WILL FILL IN DURING TRANSPORT CAUSING WEB STRAPPING TO BECOME LOOSE.
6. ONLY A PARTIAL AFT END WALL IS SHOWN ON THE ISOMETRIC VIEW TO PREVENT DISTRACTION OF THE LOADING AND TIEDOWN PROCEDURES AND TO IMPROVE THE CLARITY OF THE DEPICTED PROCEDURES.
7. A TOTAL OF FIFTEEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD AS SHOWN.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
DEMO CHARGE - - - - -	4 - - - - -	11,600 LBS
ROCKET MOTOR - - - - -	4 - - - - -	800 LBS
TOTAL WEIGHT - - -		12,400 LBS



ISOMETRIC VIEW

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD). HOOK TWO STRAPS TOGETHER AND ENCIRCLE ALL FOUR STINGER PALLETS AT TWO PLACES. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 7 ON PAGE 23.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). HOOK TWO STRAPS TOGETHER AND INSTALL TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF TWO HIGH PALLETS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 8 ON PAGE 23.
- ③ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). HOOK TWO STRAPS TOGETHER AND INSTALL TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND PALLET BASES IN SECOND LAYER, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (6 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK OVER TOP OF ONE HIGH PALLETS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 8 ON PAGE 23.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND PALLET BASE OF REAR PALLET, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

TYPICAL AMMUNITION ITEMS

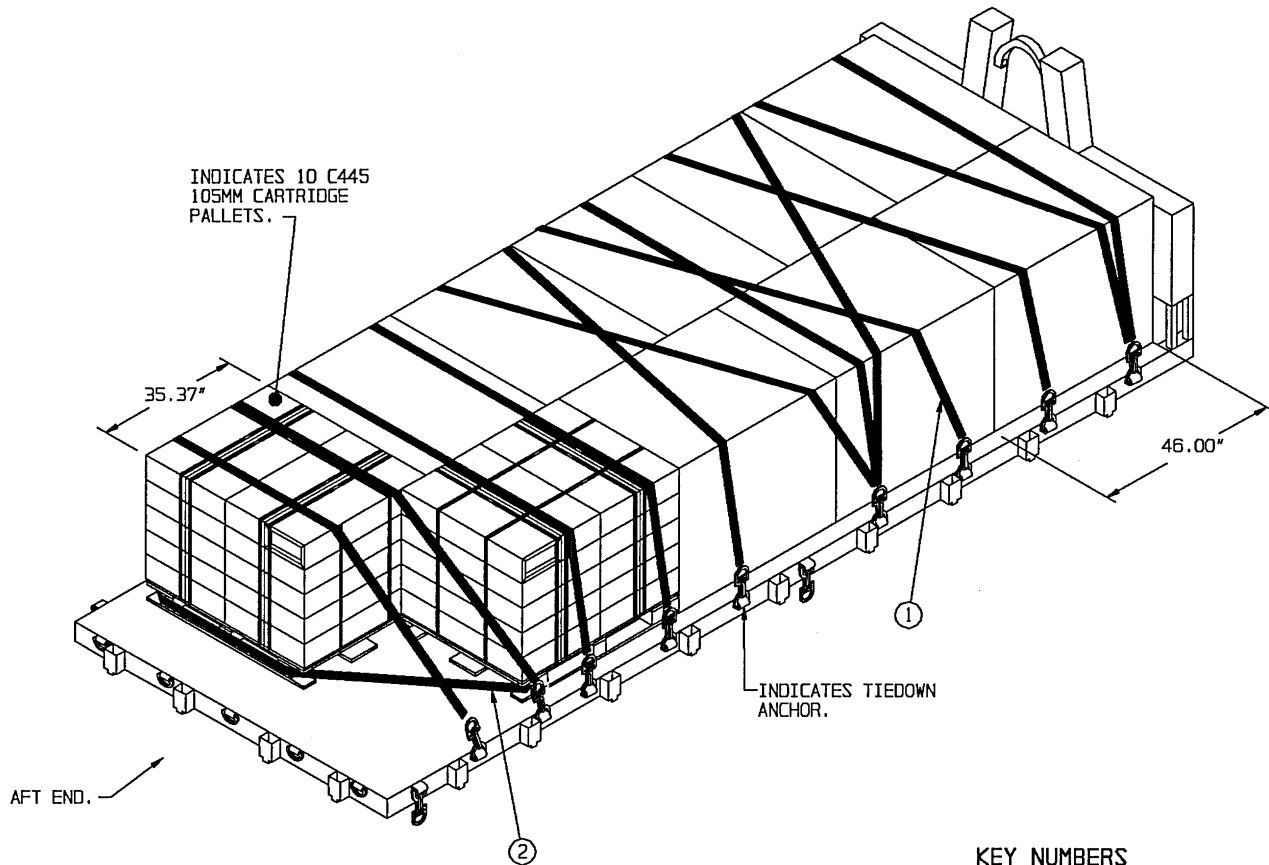
DODIC	ITEM	ITEM QUANTITY	LOAD QUANTITY	TOTAL WEIGHT
PL94	STINGER, MR-RMP 39.37 L X 67.25 W X 36.50 H	36	4 PALLETS	2,996 LBS
PB93	TOW, IIA (HE) 48.00 L X 58.25 W X 39.75 H	12	1 PALLET	1,127 LBS
A974	25MM CARTRIDGE, APDS-T, M791 31.50 L X 45.00 W X 42.50 H	1,200	2 PALLETS	2,482 LBS
A975	25MM CARTRIDGE, HEI-T, M792 31.50 L X 45.00 W X 39.75 H	1,200	2 PALLETS	2,482 LBS

SPECIAL NOTES:

1. A TYPICAL COMBAT CONFIGURED LOAD FOR AIR DEFENSE ARTILLERY IS SHOWN LOADED ON THE M1 FLATRACK HAVING CARGO DECK DIMENSIONS OF 7'-6-1/2" WIDE BY 18'-6" LONG AND A MAXIMUM LOAD WEIGHT OF 28,750 POUNDS.
2. THE LOAD AS SHOWN ON PAGE 22 MAY ALSO BE LOADED ON THE A-FRAME FLATRACK. SEE GENERAL NOTE "C" ON PAGE 2.
3. THE PALLET/SKIDDED UNITS SHOWN ARE TYPICAL ONLY. IF LOADING UNITS OF OTHER ITEMS, SIZES, OR QUANTITIES, FOLLOW THESE SAME PROCEDURES.
4. PRIOR TO LOADING THE PALLET/SKIDDED UNITS, ASSURE THAT ALL STEEL STRAPPING IS IN POSITION AND IS TIGHT. MISSING AND/OR LOOSE STEEL STRAPPING SHOULD BE REPLACED.
5. WHEN LOADING THE FLATRACK, POSITION THE LOAD TIGHT AGAINST THE FORWARD END WALL AND CENTERED ACROSS THE WIDTH OF THE FLATRACK. ASSURE THAT THE TOP LAYER PALLET/SKIDDED UNITS ARE IN VERTICAL ALIGNMENT WITH THE BOTTOM LAYER PALLET/SKIDDED UNITS.
6. ALL PALLET/SKIDDED UNITS MUST BE POSITIONED TIGHTLY AGAINST EACH OTHER Laterally AND LONGITUDINALLY. THIS WILL REDUCE LOAD MOVEMENT AND THE QUANTITY OF WEB STRAPS REQUIRED TO SECURE THE LOAD. VOID SPACES BETWEEN PALLET/SKIDDED UNITS WILL FILL IN DURING TRANSPORT CAUSING WEB STRAPPING TO BECOME LOOSE.
7. EACH LATERAL ROW OF TWO HIGH PALLET/SKIDDED UNITS MUST BE UNITIZED AT TWO LOCATIONS WITH WEB STRAP TIEDOWN ASSEMBLIES MARKED ① AND SECURED TO THE FLATRACK AT TWO LOCATIONS WITH WITH WEB STRAP TIEDOWN ASSEMBLIES MARKED ②.
8. EACH LATERAL ROW OF ONE, TWO, OR FOUR PALLETS MUST BE SECURED WITH TWO WEB STRAPS OVER THE TOP AS SHOWN. THESE TWO STRAPS MAY BE CROSSED AND/OR POSITIONED STRAIGHT ACROSS THE TOP OF A ROW.
9. ONLY A PARTIAL AFT END WALL IS SHOWN ON THE ISOMETRIC VIEW TO PREVENT DISTRACTION OF THE LOADING AND TIEDOWN PROCEDURES AND TO IMPROVE THE CLARITY OF THE DEPICTED PROCEDURES.
10. A TOTAL OF SEVENTEEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD AS SHOWN.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
CCL - - - - -	1 - - - - -	9,087 LBS



ISOMETRIC VIEW

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (12 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK OVER TOP OF PALLET UNITS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 7 ON PAGE 25.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND PALLET BASE OF REAR ROW AS SHOWN, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

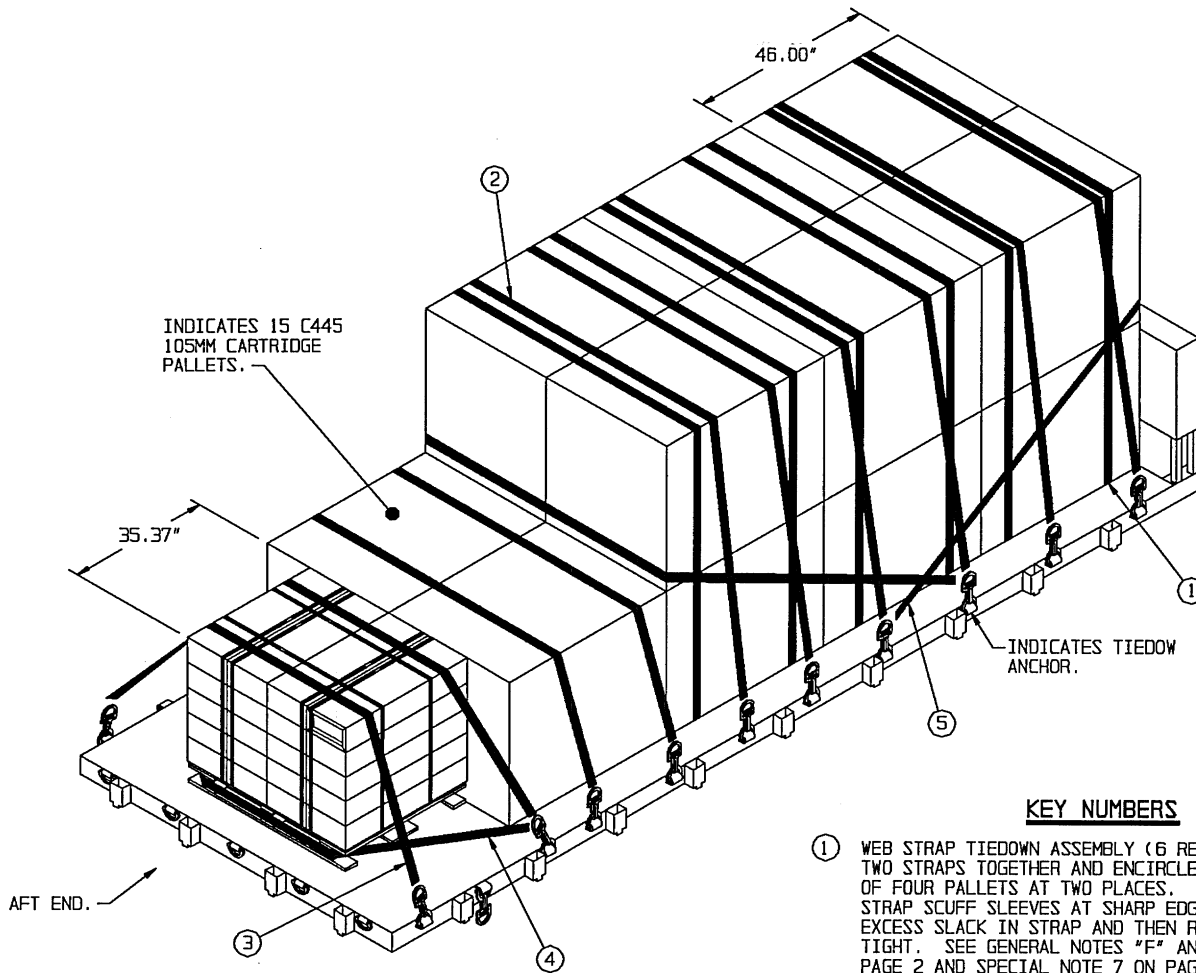
TYPICAL AMMUNITION ITEM				
DODIC	ITEM	ITEM QUANTITY	LOAD QUANTITY	TOTAL WEIGHT
C445	105MM CARTRIDGE 46.00 L X 35.37 W X 36.75 H	400	10 PALLETS	21,111 LBS

SPECIAL NOTES:

1. A TYPICAL LOAD OF 10 PALLETS OF 105MM CARTRIDGES IS SHOWN LOADED ON THE A-FRAME FLATRACK HAVING CARGO DECK DIMENSIONS OF 7'-6-1/2" WIDE BY 19'-0" LONG AND A MAXIMUM LOAD WEIGHT OF 33,000 POUNDS.
2. THE LOAD AS SHOWN ON PAGE 24 MAY ALSO BE LOADED ON AN M1 FLATRACK. SEE GENERAL NOTE "C" ON PAGE 2.
3. BY POSITIONING THE PALLETS AS SHOWN IN THE LOAD ON PAGE 24 THE LOAD LENGTH CAN BE REDUCED AND/OR THE LOAD QUANTITY CAN BE INCREASED. FOR EXAMPLE, IF THE PALLETS SHOWN IN THE LOAD ON PAGE 24 WERE POSITIONED TWO WIDE AND FOUR LONG WITH THE 46.00" DIMENSION PARALLEL TO THE SIDES OF THE FLATRACK THERE WOULD BE ENOUGH ROOM AT THE AFT END TO POSITION ONE MORE PALLET WITH THE 35.37" DIMENSION PARALLEL TO THE SIDES OF THE FLATRACK FOR A MAXIMUM LOAD OF NINE PALLETS. HOWEVER, BY POSITIONING SIX PALLETS ON ONE SIDE OF THE FLATRACK WITH THE 35.37" DIMENSION PARALLEL TO THE SIDES OF THE FLATRACK, AND FOUR PALLETS ON THE OPPOSITE SIDE OF THE FLATRACK WITH THE 46.00" DIMENSION PARALLEL TO THE SIDES OF THE FLATRACK, THE LOAD QUANTITY CAN BE INCREASED FOR A MAXIMUM LOAD OF TEN PALLETS. NOTE: WHEN LOADING PALLETS AS SHOWN ON PAGE 24 THE PALLET LENGTH PLUS THE PALLET WIDTH MUST NOT EXCEED THE CARGO DECK WIDTH OF THE FLATRACK (REF: 7'-6-1/2"). FOR AN ALTERNATIVE METHOD SEE THE CHIMNEY PATTERN LOAD ON PAGES 16 AND 17.
4. THE PALLET SHOWN IS TYPICAL ONLY. IF LOADING PALLETIZED UNITS OF OTHER ITEMS, SIZES, OR QUANTITIES, FOLLOW THESE SAME PROCEDURES.
5. PRIOR TO LOADING THE 105MM PALLETS, ASSURE THAT ALL STEEL STRAPPING IS IN POSITION AND IS TIGHT. MISSING AND/OR LOOSE STEEL STRAPPING SHOULD BE REPLACED.
6. WHEN LOADING THE FLATRACK, POSITION THE LOAD TIGHT AGAINST THE A-FRAME AND CENTERED ACROSS THE WIDTH OF THE FLATRACK.
7. EACH PALLET MUST BE SECURED WITH TWO WEB STRAPS OVER THE TOP AS SHOWN. THESE TWO STRAPS MAY BE CROSSED AND/OR POSITIONED STRAIGHT ACROSS THE TOP OF A ROW. BECAUSE THE PALLETS ARE OFFSET Laterally, SOME PALLETS WILL HAVE THREE STRAPS OVER THE TOP.
8. ALL PALLETS MUST BE POSITIONED TIGHTLY AGAINST EACH OTHER Laterally AND LONGITUDINALLY. THIS WILL REDUCE LOAD MOVEMENT AND THE QUANTITY OF WEB STRAPS REQUIRED TO SECURE THE LOAD. VOID SPACES BETWEEN PALLET/SKIDDED UNITS WILL FILL IN DURING TRANSPORT CAUSING WEB STRAPPING TO BECOME LOOSE.
9. A TOTAL OF THIRTEEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD AS SHOWN.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
105MM PALLET - - - - -	10 - - - - -	21,111 LBS



ISOMETRIC VIEW

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (6 REQD). HOOK TWO STRAPS TOGETHER AND ENCIRCLE EACH STACK OF FOUR PALLETS AT TWO PLACES. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 7 ON PAGE 27.
- ② WEB STRAP TIEDOWN ASSEMBLY (6 REQD). HOOK TWO STRAPS TOGETHER AND INSTALL TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF LOAD, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 7 ON PAGE 27.
- ③ WEB STRAP TIEDOWN ASSEMBLY (4 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF ONE HIGH PALLETS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 8 ON PAGE 27.
- ④ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND PALLET BASE OF REAR PALLET, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). HOOK TWO STRAPS TOGETHER AND INSTALL TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND PALLET BASES AT FORWARD AND REAR END OF SECOND LAYER, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

TYPICAL AMMUNITION ITEM				
DODIC	ITEM	ITEM QUANTITY	LOAD QUANTITY	TOTAL WEIGHT
C445	105MM CARTRIDGE 46.00 L X 35.37 W X 44.87 H	600	15 PALLETS	31,665 LBS

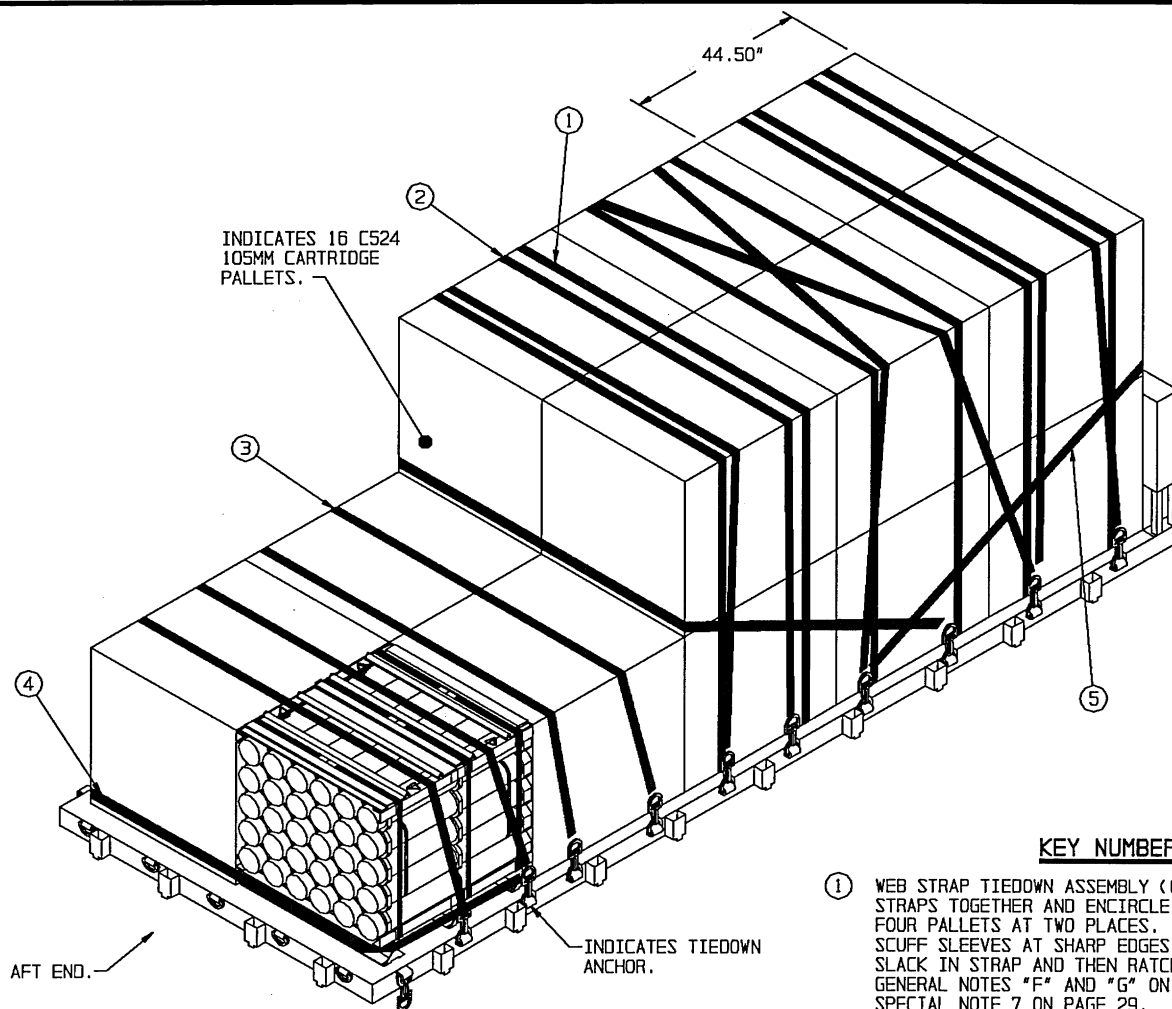
SPECIAL NOTES:

1. A TYPICAL PARTIAL TWO HIGH LOAD OF 15 PALLETS OF 105MM CARTRIDGES IS SHOWN LOADED ON THE A-FRAME FLATRACK HAVING CARGO DECK DIMENSIONS OF 7'-6-1/2" WIDE BY 19'-0" LONG AND A MAXIMUM LOAD WEIGHT OF 33,000 POUNDS.
2. IF LOADING AN M1 FLATRACK HAVING A MAXIMUM LOAD WEIGHT OF 28,750 POUNDS, OMIT THE REARMOST TWO PALLETS FROM THE TOP LAYER. THIS WILL REDUCE THE QUANTITY FROM 15 PALLETS TO 13 PALLETS AND THE LOAD WEIGHT FROM 31,665 POUNDS TO 27,443 POUNDS. SEE GENERAL NOTE "C" ON PAGE 2.
3. THE PALLET SHOWN IS TYPICAL ONLY. IF LOADING PALLETIZED UNITS OF OTHER ITEMS, SIZES, OR QUANTITIES, FOLLOW THESE SAME PROCEDURES.
4. PRIOR TO LOADING THE PALLETS, ASSURE THAT ALL STEEL STRAPPING ON EACH PALLET IS IN POSITION AND IS TIGHT. MISSING AND/OR LOOSE STEEL STRAPPING SHOULD BE REPLACED.
5. WHEN LOADING THE FLATRACK, POSITION THE LOAD TIGHT AGAINST THE A-FRAME AND CENTERED ACROSS THE WIDTH OF THE FLATRACK. ASSURE THAT THE TOP LAYER PALLETS ARE IN VERTICAL ALIGNMENT WITH THE BOTTOM LAYER PALLETS.
6. ALL PALLETS MUST BE POSITIONED TIGHTLY AGAINST EACH OTHER Laterally and Longitudinally. THIS WILL REDUCE LOAD MOVEMENT AND THE QUANTITY OF WEB STRAPS REQUIRED TO SECURE THE LOAD. VOID SPACES BETWEEN PALLET UNITS WILL FILL IN DURING TRANSPORT CAUSING WEB STRAPS TO BECOME LOOSE.
7. EACH LATERAL ROW OF FOUR PALLETS MUST BE UNITIZED AT TWO LOCATIONS WITH WEB STRAP TIEDOWN ASSEMBLIES MARKED ① AND SECURED TO THE VEHICLE AT TWO LOCATIONS WITH WEB STRAP TIEDOWN ASSEMBLIES MARKED ②. STRAPS MARKED ② MAY BE CROSSED AND/OR POSITIONED STRAIGHT OVER THE TOP OF A ROW.
8. EACH LATERAL ROW OF ONE OR TWO PALLETS MUST BE SECURED WITH TWO WEB STRAPS OVER THE TOP AS SHOWN. THESE TWO STRAPS MAY BE CROSSED AND/OR POSITIONED STRAIGHT ACROSS THE TOP OF A ROW.
9. A TOTAL OF THIRTY-THREE WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD AS SHOWN.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
105MM PALLET - - - - -	15 - - - - -	31,665 LBS

105MM CARTRIDGES IN WOODEN BOXES (TWO HIGH)



ISOMETRIC VIEW

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (6 REQD). HOOK TWO STRAPS TOGETHER AND ENCIRCLE EACH STACK OF FOUR PALLETS AT TWO PLACES. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 7 ON PAGE 29.
- ② WEB STRAP TIEDOWN ASSEMBLY (6 REQD). HOOK TWO STRAPS TOGETHER AND INSTALL TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF LOAD, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 7 ON PAGE 29.
- ③ WEB STRAP TIEDOWN ASSEMBLY (4 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF ONE HIGH PALLETS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 8 ON PAGE 29.
- ④ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND PALLET BASES OF REAR PALLETS IN BOTTOM LAYER, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). HOOK TWO STRAPS TOGETHER AND INSTALL TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND PALLET BASES AT FORWARD AND REAR END OF SECOND LAYER, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

TYPICAL AMMUNITION ITEM				
DODIC	ITEM	ITEM QUANTITY	LOAD QUANTITY	TOTAL WEIGHT
C524	105MM CARTRIDGE IN PA117 CNTR 44.50 L X 42.00 W X 39.50 H	480	16 PALLETS	30,128 LBS

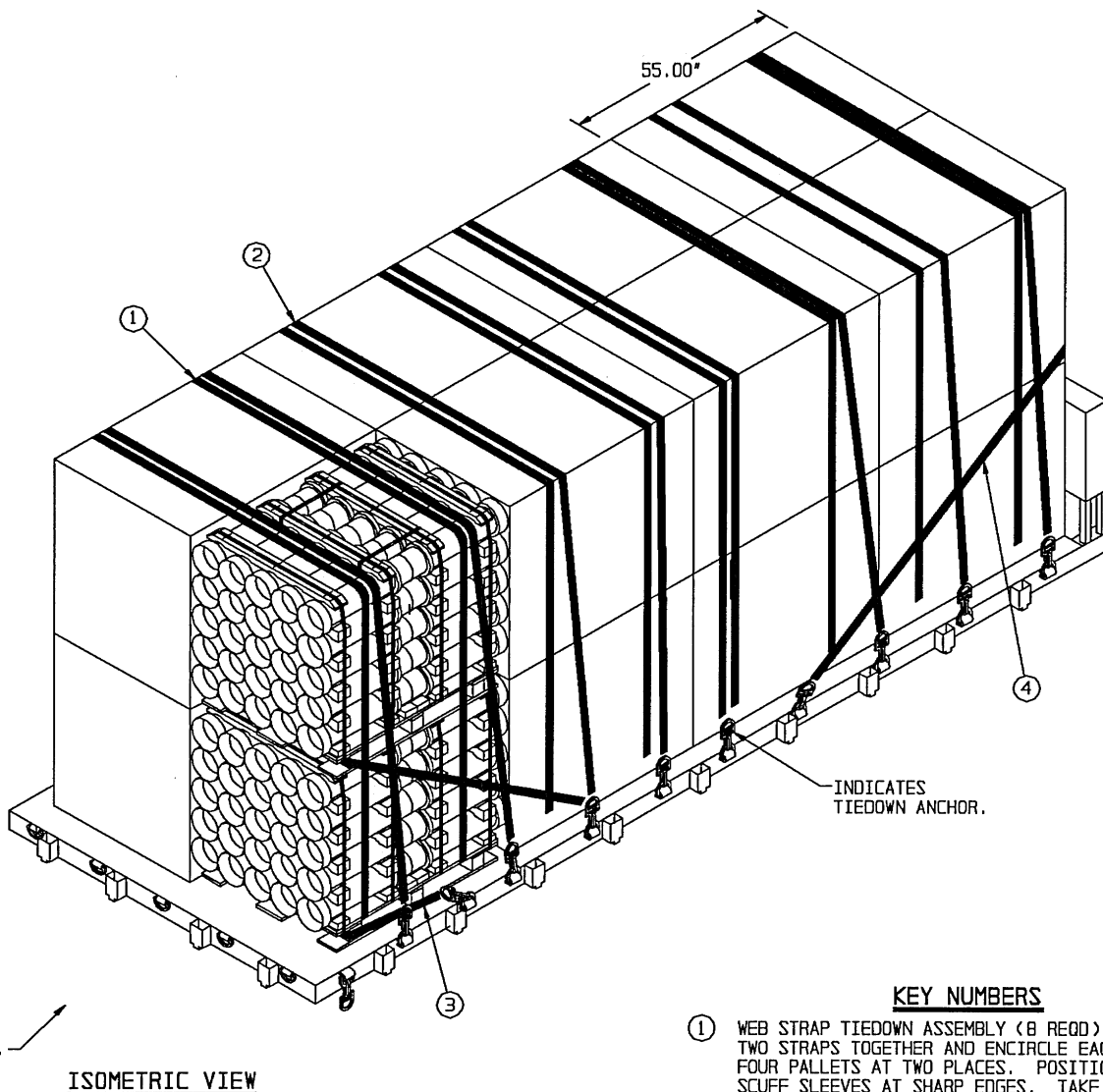
SPECIAL NOTES:

1. A TYPICAL PARTIAL TWO HIGH LOAD OF 16 PALLETS OF 105MM CARTRIDGE IS SHOWN LOADED ON THE A-FRAME FLATRACK HAVING CARGO DECK DIMENSIONS OF 7'-6-1/2" WIDE BY 19'-0" LONG AND A MAXIMUM LOAD WEIGHT OF 33,000 POUNDS.
2. IF LOADING AN M1 FLATRACK HAVING A MAXIMUM LOAD WEIGHT OF 28,750 POUNDS, OMIT ONE OF THE REARMOST TWO PALLETS AND TURN THE REMAINING PALLET 90 SO THE 42.00" DIMENSION IS PARALLEL TO THE SIDES OF THE FLATRACK IN LIEU OF THE 44.50' DIMENSION. THIS WILL REDUCE THE QUANTITY FROM 16 PALLETS TO 15 PALLETS AND THE LOAD WEIGHT FROM 30,128 POUNDS TO 28,245 POUNDS. ALSO, IT WILL REDUCE THE LOAD LENGTH FROM 18'-6-1/2" TO 18'-4". SEE GENERAL NOTE "C" ON PAGE 2.
3. THE PALLET SHOWN IS TYPICAL ONLY. IF LOADING PALLETIZED UNITS OF OTHER ITEMS, SIZES, OR QUANTITIES, FOLLOW THESE SAME PROCEDURES.
4. PRIOR TO LOADING THE PALLETS, ASSURE THAT ALL STEEL STRAPPING ON EACH PALLET IS IN POSITION AND IS TIGHT. MISSING AND/OR LOOSE STEEL STRAPPING SHOULD BE REPLACED.
5. WHEN LOADING THE FLATRACK, POSITION THE LOAD TIGHT AGAINST THE A-FRAME AND CENTERED ACROSS THE WIDTH OF THE FLATRACK. ASSURE THAT THE TOP LAYER PALLETS ARE IN VERTICAL ALIGNMENT WITH THE BOTTOM LAYER PALLETS.
6. ALL PALLETS MUST BE POSITIONED TIGHTLY AGAINST EACH OTHER Laterally and Longitudinally. THIS WILL REDUCE LOAD MOVEMENT AND THE QUANTITY OF WEB STRAPS REQUIRED TO SECURE THE LOAD. VOID SPACES BETWEEN PALLET UNITS WILL FILL IN DURING TRANSPORT CAUSING WEB STRAPS TO BECOME LOOSE.
7. EACH LATERAL ROW OF FOUR PALLETS MUST BE UNITIZED AT TWO LOCATIONS WITH WEB STRAP TIEDOWN ASSEMBLIES MARKED ① AND SECURED TO THE VEHICLE AT TWO LOCATIONS WITH WEB STRAP TIEDOWN ASSEMBLIES MARKED ②. STRAPS MARKED ② MAY BE CROSSED AND/OR POSITIONED STRAIGHT OVER THE TOP OF A ROW.
8. EACH LATERAL ROW OF TWO PALLETS MUST BE SECURED WITH TWO WEB STRAPS OVER THE TOP AS SHOWN. THESE TWO STRAPS MAY BE CROSSED AND/OR POSITIONED STRAIGHT ACROSS THE TOP OF A ROW.
9. A TOTAL OF THIRTY-THREE WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD AS SHOWN.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
105MM PALLET - - - - -	16 - - - - -	30,128 LBS

105MM CARTRIDGE IN PA117 CONTAINER (TWO HIGH)



KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (8 REQD). HOOK TWO STRAPS TOGETHER AND ENCIRCLE EACH STACK OF FOUR PALLETS AT TWO PLACES. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 7 ON PAGE 31.
- ② WEB STRAP TIEDOWN ASSEMBLY (8 REQD). HOOK TWO STRAPS TOGETHER AND INSTALL TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF LOAD, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2 AND SPECIAL NOTE 7 ON PAGE 31.
- ③ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND PALLET BASES OF REAR PALLETS IN BOTTOM LAYER, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). HOOK TWO STRAPS TOGETHER AND INSTALL TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND PALLET BASES IN SECOND LAYER AT FORWARD AND REAR END OF LOAD, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

TYPICAL AMMUNITION ITEM

DODIC	ITEM	ITEM QUANTITY	LOAD QUANTITY	TOTAL WEIGHT
DS41	155MM PROP CHARGE 40.00 L X 55.00 W X 44.87 H	800	16 PALLETS	28,256

155MM PROPELLING CHARGE CONTAINERS (TWO HIGH)

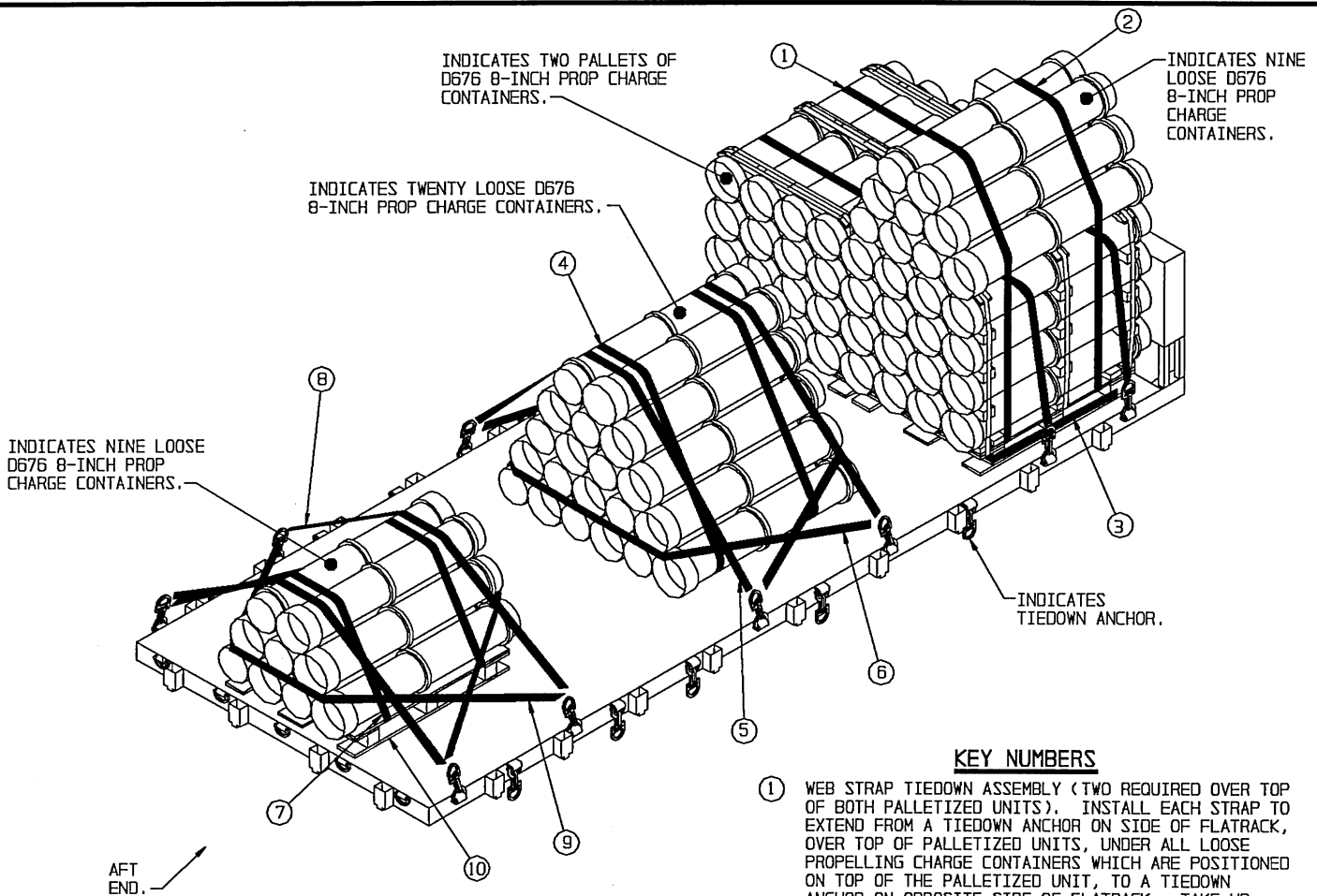
SPECIAL NOTES:

1. A TYPICAL TWO HIGH LOAD OF 16 PALLETS OF 155MM PROPELLING CHARGE CONTAINERS IS SHOWN LOADED ON THE A-FRAME FLATRACK HAVING CARGO DECK DIMENSIONS OF 7'-6-1/2" WIDE BY 19'-0" LONG AND A MAXIMUM LOAD WEIGHT OF 33,000 POUNDS.
2. THE LOAD AS SHOWN ON PAGE 30 MAY ALSO BE LOADED ON AN M1 FLATRACK. SEE GENERAL NOTE "C" ON PAGE 2.
3. THE PALLET SHOWN IS TYPICAL ONLY. IF LOADING PALLETIZED UNITS OF OTHER ITEMS, SIZES, OR QUANTITIES, FOLLOW THESE SAME PROCEDURES.
4. PRIOR TO LOADING THE 155MM PALLETS, ASSURE THAT ALL STEEL STRAPPING ON EACH PALLET IS IN POSITION AND IS TIGHT. MISSING AND/OR LOOSE STEEL STRAPPING SHOULD BE REPLACED.
5. WHEN LOADING THE FLATRACK, POSITION THE LOAD TIGHT AGAINST THE A-FRAME AND CENTERED ACROSS THE WIDTH OF THE FLATRACK. ASSURE THAT THE TOP LAYER PALLETS ARE IN VERTICAL ALIGNMENT WITH THE BOTTOM LAYER PALLETS.
6. ALL PALLETS MUST BE POSITIONED TIGHTLY AGAINST EACH OTHER Laterally and Longitudinally. THIS WILL REDUCE LOAD MOVEMENT AND THE QUANTITY OF WEB STRAPS REQUIRED TO SECURE THE LOAD. VOID SPACES BETWEEN PALLET UNITS WILL FILL IN DURING TRANSPORT CAUSING WEB STRAPS TO BECOME LOOSE.
7. EACH LATERAL ROW OF FOUR PALLETS MUST BE UNITIZED AT TWO LOCATIONS WITH WEB STRAP TIEDOWN ASSEMBLIES MARKED ① AND SECURED TO THE VEHICLE AT TWO LOCATIONS WITH WEB STRAP TIEDOWN ASSEMBLIES MARKED ②. STRAPS MARKED ② MAY BE CROSSED AND/OR POSITIONED STRAIGHT OVER THE TOP OF A ROW.
8. A TOTAL OF THIRTY-SEVEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD AS SHOWN.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
155MM PC PALLET	----- 16 -----	28,256 LBS

155MM PROPELLING CHARGE CONTAINERS (TWO HIGH)



ISOMETRIC VIEW

(KEY NUMBERS CONTINUED)

③ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND END OF PALLET AS SHOWN, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

④ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF LOOSE PROPELLING CHARGE CONTAINERS) INSTALL EACH STRAP TO ENCIRCLE ALL PROPELLING CHARGE CONTAINERS IN THE BUNDLE. PRE-POSITION THESE TWO STRAPS ON THE FLOOR OF THE FLATRACK PRIOR TO LOADING PROPELLING CHARGE CONTAINERS. MAKE SURE STRAPS LAY FLAT ACROSS THE FLOOR AND DRAPE THE ENDS OVER THE SIDE OF THE FLATRACK. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE FLATRACK. POSITION THE FIRST LAYER OF PROPELLING CHARGE CONTAINERS ON THE FLOOR, WITH ENDS ALTERNATED. ADJUST THE TWO STRAPS SO THEY WILL BE CLOSE TO THE BELL END AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE LOOSE CONTAINERS. KEEP THE BOTTOM LAYER CONTAINERS TIGHT AGAINST EACH OTHER BY USING WEDGES AT SIDES OR HOLD IN PLACE MANUALLY AND STACK THE REMAINING CONTAINERS, IN LAYERS, WITH THE ENDS ALTERNATED, ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED, HOOK ENDS OF WEB STRAP TIEDOWN ASSEMBLIES TOGETHER, TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. NOTE: AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE CONTAINERS SO THEY FORM A COMPACT TIGHT BUNDLE. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

(KEY NUMBERS CONTINUED ON PAGE 33)

KEY NUMBERS

① WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED OVER TOP OF BOTH PALLETIZED UNITS). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF PALLETIZED UNITS, UNDER ALL LOOSE PROPELLING CHARGE CONTAINERS WHICH ARE POSITIONED ON TOP OF THE PALLETIZED UNIT, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. NOTE: STRAPS MARKED ① CAN BE INSTALLED OVER TOP OF THE PALLETIZED UNITS PRIOR TO POSITIONING THE LOOSE PROPELLING CHARGE CONTAINERS ON TOP OF THE PALLETIZED UNIT, OR STRAPS MARKED ① CAN BE INSTALLED OVER TOP OF THE PALLETIZED UNIT AFTER THE LOOSE PROPELLING CHARGE CONTAINERS HAVE BEEN POSITIONED, AND SECURED, ON TOP OF THE PALLETIZED UNIT. A PIECE OF WIRE, OR STICK, CAN BE USED TO PULL THE NON-RATCHET END OF THE STRAP THROUGH THE OPENING BETWEEN THE TOP OF THE PALLETIZED UNIT AND THE BOTTOM OF THE LOOSE PROPELLING CHARGE CONTAINERS.

② WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF LOOSE PROPELLING CHARGE CONTAINERS ON TOP OF A PALLETIZED UNIT). INSTALL EACH STRAP TO ENCIRCLE PALLETIZED UNIT AND ALL LOOSE PROPELLING CHARGE CONTAINERS POSITIONED ON TOP OF THE PALLETIZED UNIT. PRIOR TO POSITIONING LOOSE CONTAINERS ON THE PALLETIZED UNIT, THREAD STRAPS MARKED ② UNDER THE TOP DECK OF THE PALLET WITH BOTH RATCHET ENDS ON THE SAME SIDE OF THE PALLET. MAKE SURE THAT STRAPS LAY FLAT WITH NO TWISTS IN THEM. POSITION THE FIRST LAYER OF PROPELLING CHARGE CONTAINERS ON THE TOP OF THE PALLETIZED UNIT, WITH ENDS ALTERNATED. ADJUST THE TWO STRAPS MARKED ② SO THEY WILL BE CLOSE TO THE BELL END AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE LOOSE CONTAINERS. KEEP THE BOTTOM LAYER CONTAINERS TIGHT AGAINST EACH OTHER AND STACK THE REMAINING CONTAINERS, IN LAYERS, WITH THE ENDS ALTERNATED, ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED, BRING ENDS OF STRAPS UP OVER TOP OF LOOSE CONTAINERS AND HOOK ENDS OF STRAP TOGETHER. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. NOTE: AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE CONTAINERS SO THEY FORM A TIGHT BUNDLE ON TOP OF THE PALLETIZED UNIT. SINCE THE CONTAINERS MAY SEEK THEIR NATURAL POSITION DURING TRANSPORT, CHECK STRAPS FOR TIGHTNESS AND RE-TIGHTEN IF NECESSARY. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

(KEY NUMBERS CONTINUED AT LEFT)

SPECIAL NOTES:

(KEY NUMBERS CONTINUED FROM PAGE 32)

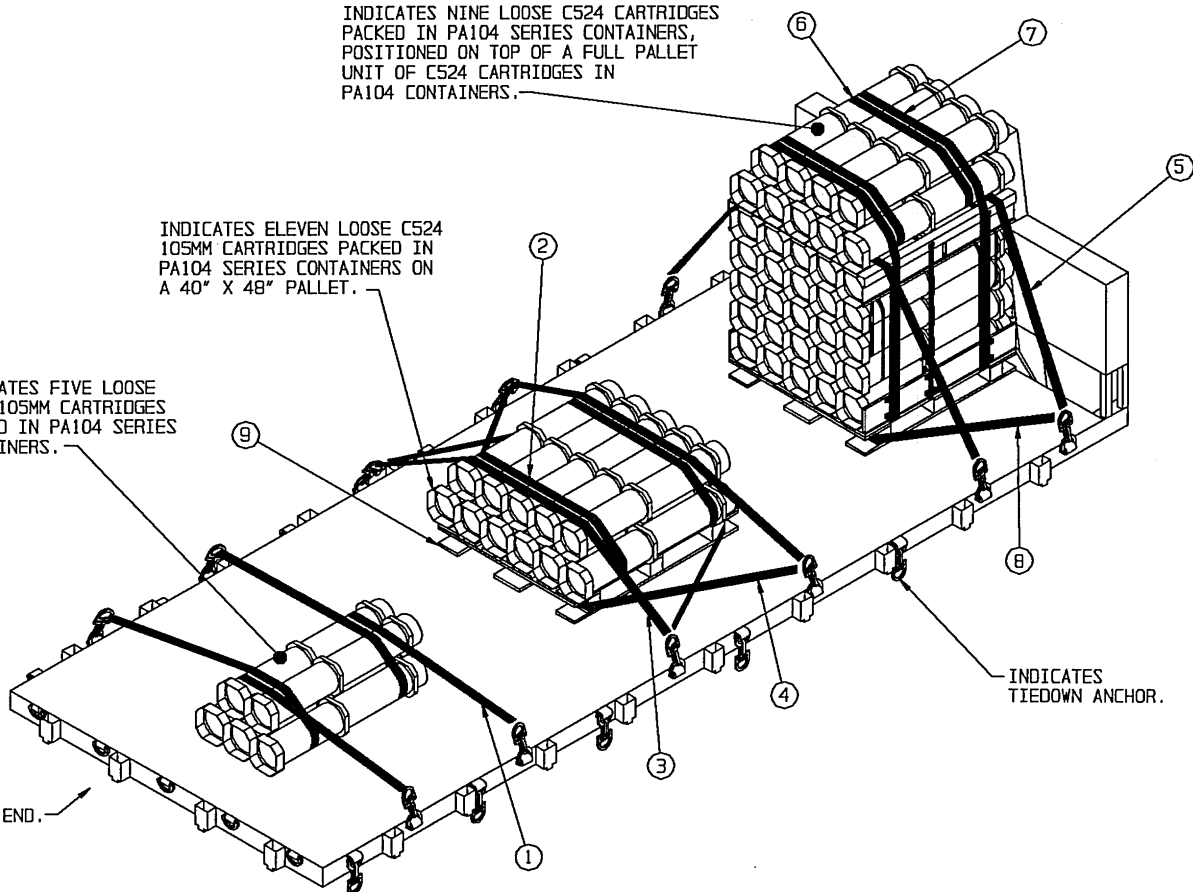
1. TYPICAL METHODS OF SECURING LOOSE PROPELLING CHARGE CONTAINERS ON TOP OF A PALLETIZED UNIT, ON THE FLOOR OF THE FLATRACK, AND ON A PALLET, ARE SHOWN LOADED ON THE A-FRAME FLATRACK HAVING CARGO DECK DIMENSIONS OF 7'-6-1/2" WIDE BY 19'-0" LONG AND A MAXIMUM LOAD WEIGHT OF 33,000 POUNDS.
 2. THE PROCEDURES FOR SECURING LOOSE PROPELLING CHARGE CONTAINERS SHOWN ON PAGE 32 MAY ALSO BE USED ON THE M1 FLATRACK. SEE GENERAL NOTE "C" ON PAGE 2.
 3. THE PROPELLING CHARGE CONTAINER SHOWN IS TYPICAL ONLY AND THESE METHODS MAY BE USED FOR PROPELLING CHARGE CONTAINERS OF DIFFERENT SIZES AND WEIGHTS.
 4. ONE METHOD SHOWN ON PAGE 32 DEPICTS SECUREMENT OF NINE LOOSE D676 8-INCH M10 SERIES PROPELLING CHARGE CONTAINERS ON TOP OF A FULL PALLET OF SIXTEEN CONTAINERS WHICH IS SECURED TO THE FLATRACK. HOLD-DOWN STRAPS MARKED ① ARE POSITIONED OVER TOP OF THE PALLETIZED UNIT AND MUST NOT BE POSITIONED OVER TOP OF THE LOOSE PROPELLING CHARGE CONTAINERS ON TOP OF A PALLETIZED UNIT. SEE KEY NUMBERS ① AND ② ON PAGE 32 FOR GUIDANCE WHEN LOADING LOOSE PROPELLING CHARGE CONTAINERS ON TOP OF PALLETIZED UNITS.
 5. WHEN LOADING LOOSE PROPELLING CHARGE CONTAINERS ON TOP OF A PALLETIZED UNIT ASSURE THAT ALL LOOSE CONTAINERS ARE SECURED BY MANUALLY GUIDING CONTAINERS INTO A TIGHT CONFIGURATION AS THE TWO HOLD-DOWN STRAPS MARKED ② ARE BEING TIGHTENED. AFTER STRAPS HAVE BEEN RATCHETED TIGHT, CHECK BUNDLE TO MAKE SURE ALL LOOSE CONTAINERS ARE SECURED. NOTE: WHEN USING THIS METHOD, POSITION ONE THROUGH ONE FULL LAYER OF LOOSE CONTAINERS IN THE FIRST LAYER. A SECOND LAYER MUST CONSIST OF A MAXIMUM QUANTITY OF CONTAINERS THAT CAN BE POSITIONED ON THE FIRST LAYER, BY NESTING THE SECOND LAYER CONTAINERS ON THE FIRST LAYER OF CONTAINERS. IF THERE ARE NOT ENOUGH CONTAINERS FOR A FULL SECOND LAYER, THEY MUST BE POSITIONED ON TOP OF A DIFFERENT PALLET OR PALLETIZED UNIT. FOR EXAMPLE, IF A FULL FIRST LAYER CONSISTS OF FIVE LOOSE CONTAINERS THE SECOND FULL LAYER WOULD HAVE TO CONSIST OF FOUR CONTAINERS.
 6. ALL LOOSE CONTAINERS POSITIONED ON TOP OF A PALLETIZED UNIT MUST FORM A TIGHT BUNDLE AFTER STRAPS MARKED ② ARE RATCHETED TIGHT. IF CONTAINERS DO NOT FORM A TIGHT BUNDLE, TWO ADDITIONAL WEB STRAP ASSEMBLIES WHICH ENCIRCLE ALL LOOSE CONTAINERS WITHIN THE BUNDLE ARE REQUIRED.
 7. A SECOND METHOD SHOWN ON PAGE 32 DEPICTS SECUREMENT OF TWENTY LOOSE D676 8-INCH M10 SERIES PROPELLING CHARGE CONTAINERS IN ONE BUNDLE POSITIONED ON THE FLOOR OF THE FLATRACK. THE QUANTITY OF CONTAINERS WITHIN A BUNDLE MAY BE A MINIMUM OF FIVE, UP TO A QUANTITY THAT CAN BE ENCIRCLED WITH ONE WEB STRAP TIEDOWN ASSEMBLY MARKED ④. IF LOADING CONTAINERS OF OTHER DIMENSIONS AND QUANTITIES, FOLLOW THESE SAME PROCEDURES.
 8. LOOSE PROPELLING CHARGE CONTAINERS OF DIFFERENT LENGTHS AND DIAMETERS MAY BE MIXED WITHIN THE SAME BUNDLE, AS LONG AS THEY ARE POSITIONED IN SUCH A MANNER THAT ALL THE CONTAINERS WITHIN THE COMPLETED BUNDLE ARE HELD TIGHT. GENERALLY, IT IS BEST TO POSITION THE LARGER CONTAINERS ON THE BOTTOM AND THE SMALLER CONTAINERS ON THE TOP. SHORT CONTAINERS SHOULD BE CENTERED ON LONG CONTAINERS AND, WHEN POSSIBLE, POSITIONED IN SUCH A MANNER THAT THE ROLLING FLANGES AND BELL ENDS WILL "LOCK" IN ON OTHER CONTAINERS AND HELP SECURE THE BUNDLE. NOTE: AFTER A BUNDLE OF MIXED PROPELLING CHARGE CONTAINERS HAS BEEN SECURED IT MAY BE POSSIBLE TO MANUALLY "WIGGLE" A CONTAINER WITHIN THE BUNDLE. THIS IS ACCEPTABLE AS LONG AS THE CONTAINER CANNOT BE MANUALLY PULLED OUT OF THE BUNDLE AND IT STAYS IN PLACE DURING TRANSPORT.
 9. A THIRD METHOD SHOWN ON PAGE 32 DEPICTS SECUREMENT OF NINE LOOSE D676 8-INCH M10 SERIES PROPELLING CHARGE CONTAINERS POSITIONED ON A 40" X 48" PALLET. THE QUANTITY OF CONTAINERS ON ONE PALLET MAY BE ONE UP TO A QUANTITY THAT CAN BE ENCIRCLED WITH ONE WEB STRAP TIEDOWN ASSEMBLY MARKED ⑦.
 10. ALL LOOSE CONTAINERS POSITIONED ON TOP OF A PALLET MUST FORM A TIGHT BUNDLE AFTER STRAPS MARKED ⑦ ARE RATCHETED TIGHT. IF CONTAINERS DO NOT FORM A TIGHT BUNDLE, OR IF CONTAINERS OF DIFFERENT SIZES ARE BEING POSITIONED ON TOP OF THE SAME PALLET, TWO ADDITIONAL WEB STRAP TIEDOWN ASSEMBLIES MARKED ⑦ IN THE LOAD ON PAGE 32, ARE REQUIRED. SEE KEY NUMBERS ⑦, ⑧, AND ⑨ ON THIS PAGE FOR ADDITIONAL GUIDANCE.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF LOOSE PROPELLING CHARGE CONTAINERS). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK OVER TOP OF PROPELLING CHARGE CONTAINERS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION BOTH RATCHETS ON THE SAME SIDE OF THE FLATRACK. ATTACH WEB STRAP TIEDOWN ASSEMBLY MARKED ⑥ TO THE TIEDOWN ANCHOR PRIOR TO RATCHETING WEB STRAP TIEDOWN ASSEMBLIES MARKED ⑤ TIGHT. TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS MARKED ⑤ AT THE SAME TIME. NOTE: THESE STRAPS SHOULD ALWAYS BE POSITIONED BETWEEN THE BELL ON ONE END OF A CONTAINER AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE SAME CONTAINER. DUE TO LOCATION OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO ANGLE THESE STRAPS SLIGHTLY TO MEET THIS REQUIREMENT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
 - ⑥ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND END OF PROPELLING CHARGE CONTAINER BUNDLE, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. TAKE UP SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
 - ⑦ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO ENCIRCLE PALLET MARKED ⑩ AND ALL LOOSE PROPELLING CHARGE CONTAINERS POSITIONED ON THE PALLET. PRIOR TO POSITIONING CONTAINERS ON THE PALLET, THREAD STRAPS MARKED ⑦ UNDER THE TOP DECK OF THE PALLET WITH BOTH RATCHET ENDS ON THE SAME SIDE OF THE PALLET. MAKE SURE THAT STRAPS LAY FLAT WITH NO TWISTS IN THEM. POSITION THE FIRST LAYER OF PROPELLING CHARGE CONTAINERS ON THE PALLET, WITH ENDS ALTERNATED. ADJUST THE TWO STRAPS MARKED ⑦ SO THEY WILL BE CLOSE TO THE BELL ON ONE END AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE CONTAINERS. KEEP THE BOTTOM LAYER CONTAINERS TIGHT AGAINST EACH OTHER AND STACK THE REMAINING CONTAINERS, IN LAYERS, WITH THE ENDS ALTERNATED, ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED, BRING ENDS OF STRAPS UP OVER TOP OF CONTAINERS AND HOOK ENDS OF STRAP TOGETHER. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. NOTE: AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE CONTAINERS SO THEY FORM A TIGHT BUNDLE ON THE PALLET. THE CONTAINERS MAY SEEK THEIR NATURAL POSITION DURING TRANSPORT, IF SO, CHECK STRAPS FOR TIGHTNESS AND RE-TIGHTEN IF NECESSARY. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
 - ⑧ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF PROPELLING CHARGE CONTAINERS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION BOTH RATCHETS ON THE SAME SIDE OF THE FLATRACK. ATTACH WEB STRAP TIEDOWN ASSEMBLY MARKED ⑨ TO THE TIEDOWN ANCHOR PRIOR TO RATCHETING WEB STRAP TIEDOWN ASSEMBLIES MARKED ⑧ TIGHT. TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS MARKED ⑧ AT THE SAME TIME. NOTE: THESE STRAPS SHOULD ALWAYS BE POSITIONED BETWEEN THE BELL ON ONE END OF A CONTAINER AND THE ROLLING FLANGE ON THE OPPOSITE END OF THE SAME CONTAINER. DUE TO LOCATION OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO ANGLE THESE STRAPS SLIGHTLY TO MEET THIS REQUIREMENT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
 - ⑨ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND END OF PROPELLING CHARGE CONTAINERS AS SHOWN, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. TAKE UP SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
 - ⑩ WOOD PALLET 40" X 48" (1 REQD). SEE KEY NUMBER ⑦ ABOVE.

INDICATES NINE LOOSE C524 CARTRIDGES PACKED IN PA104 SERIES CONTAINERS, POSITIONED ON TOP OF A FULL PALLET UNIT OF C524 CARTRIDGES IN PA104 CONTAINERS.

INDICATES ELEVEN LOOSE C524 105MM CARTRIDGES PACKED IN PA104 SERIES CONTAINERS ON A 40" X 48" PALLET.

INDICATES FIVE LOOSE C524 105MM CARTRIDGES PACKED IN PA104 SERIES CONTAINERS.

AFT END.



INDICATES TIEDOWN ANCHOR.

SPECIAL NOTES:

1. TYPICAL METHODS OF SECURING LOOSE CARTRIDGE CONTAINERS ON TOP OF A PALLETIZED UNIT, ON THE FLOOR OF THE FLATRACK, AND ON A 40" X 48" PALLET, ARE SHOWN LOADED ON THE A-FRAME FLATRACK HAVING CARGO DECK DIMENSIONS OF 7'-6-1/2" WIDE BY 19'-0" LONG AND A MAXIMUM LOAD WEIGHT OF 33,000 POUNDS.
2. THE PROCEDURES FOR SECURING LOOSE 105MM AND/OR 120MM CARTRIDGE CONTAINERS SHOWN ON THIS PAGE MAY ALSO BE USED FOR THE M1 FLATRACK. SEE GENERAL NOTE "C" ON PAGE 2.
3. THE 105MM CARTRIDGE PACKED IN THE P104 SERIES CONTAINER HAVING DIMENSIONS OF 45-5/8" LONG BY 7-1/8" WIDE BY 7-1/8" HIGH WITH STACKING LUGS LOCATED ON THE BELL AT THE OPENING END AND THE COLLAR AT THE OPPOSITE END IS SHOWN. THESE PROCEDURES MAY BE USED FOR SIMILAR CONTAINERS OF DIFFERENT SIZES AND WEIGHTS.
4. GUIDANCE FOR LOADING LOOSE CONTAINERS THAT HAVE STACKING LUGS LOCATED ON THE BELL AT THE OPENING END AND THE COLLAR AT THE OPPOSITE END, SUCH AS THE PA104 SERIES CONTAINER:
 - A. WHEN LOADING TWO CONTAINERS, SIDE-BY-SIDE, POSITION THE STACKING LUG ON THE SIDE SO IT LOCKS INTO THE STACKING LUG RETAINING HOLE ON THE ADJACENT CONTAINER. USE THIS PROCEDURE WHEN LOADING TWO THRU FIVE CONTAINERS SIDE-BY-SIDE ON THE FLATRACK FLOOR, ON A PALLET, OR ON TOP OF A PALLETIZED UNIT.
 - B. THREE OR MORE CONTAINERS CAN BE POSITIONED IN LAYERS AS SHOWN FOR THE FIVE CONTAINER BUNDLE ON THE FLOOR. POSITION THE STACKING LUGS ON THE SIDE OF THE CONTAINERS IN THE BOTTOM LAYER SO THEY LOCK INTO THE STACKING LUG RETAINING HOLE ON THE ADJACENT CONTAINER. POSITION THE SECOND LAYER CONTAINERS IN SUCH A MANNER THAT THE BELL IS LOCATED BEHIND AND BUTTED AGAINST THE BELL ON THE BOTTOM LAYER CONTAINERS. THIS WILL PREVENT THE SECOND LAYER CONTAINERS FROM SLIPPING OFF THE FIRST LAYER CONTAINER BELLS DURING TRANSIT. POSITION THE

(CONTINUED AT RIGHT)

(SPECIAL NOTES CONTINUED)

- STACKING LUGS ON THE CONTAINERS IN THE SECOND LAYER SO THEY LOCK INTO THE STACKING LUG RETAINING HOLE ON THE ADJACENT CONTAINER. POSITION THE CONTAINERS IN THE SECOND LAYER TO CENTER ON THE JOINTS BETWEEN THE CONTAINERS IN THE BOTTOM LAYER. USE THIS METHOD WHEN LOADING CONTAINERS ON ALL PALLETS, ON THE FLATRACK FLOOR, OR ON TOP OF A PALLETIZED UNIT.
5. WOOD PALLETS HAVING DIMENSIONS OF 40" X 48" ARE SHOWN IN THE LOAD ABOVE. HOWEVER, THE METHODS SHOWN MAY BE USED FOR WOOD PALLETS OF OTHER DIMENSIONS AND/OR METAL PALLETS.
 6. THE QUANTITY OF CONTAINERS WITHIN A BUNDLE IS LIMITED TO THE QUANTITY THAT CAN BE ENCIRCLED WITH ONE WEB STRAP TIEDOWN ASSEMBLY, SHOWN AS KEY NUMBER ⑥ ABOVE.
 7. IF THE BUNDLE OF CONTAINERS LOADED ON A 40" X 48" PALLET DOES NOT OVERHANG THE PALLET ON EACH SIDE, TWO ADDITIONAL STRAPS ARE REQUIRED. INSTALL THESE TWO STRAPS TO ENCIRCLE THE LOOSE CONTAINERS AT TWO LOCATIONS. SEE KEY NUMBER ⑥ ON PAGE 35 FOR GUIDANCE.
 8. HOLD-DOWN STRAPS MARKED ⑤ ARE POSITIONED OVER TOP OF THE PALLETIZED UNIT AND MUST NOT BE POSITIONED OVER TOP OF THE LOOSE CONTAINERS ON TOP OF A PALLETIZED UNIT. SEE KEY NUMBERS ⑤ THRU ⑧ ON PAGE 35 FOR GUIDANCE WHEN LOADING LOOSE CONTAINERS ON TOP OF PALLETIZED UNITS.
 9. THE QUANTITY OF LOOSE CONTAINERS POSITIONED ON TOP OF A PALLETIZED UNIT IS ONE CONTAINER UP TO A MAXIMUM OF TWO FULL LAYERS OF CONTAINERS. SEE SPECIAL NOTE 10 ON THIS PAGE.
 10. WHEN LOADING LOOSE CONTAINERS ALWAYS POSITION ALL CONTAINERS WITH THE OPENING ENDS POINTING IN THE SAME DIRECTION.
 11. IF LOADING ONE THRU FIVE CONTAINERS ON TOP OF A PALLET UNIT, OMIT STRAPS MARKED ⑥.

KEY NUMBERS

(KEY NUMBERS CONTINUED)

- ① WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF THREE TO FIVE LOOSE CONTAINERS). INSTALL EACH STRAP TO ENCIRCLE ALL CONTAINERS IN THE BUNDLE. PRE-POSITION THESE TWO STRAPS ON THE FLOOR OF THE FLATRACK, IN LINE WITH THE TIEDOWN ANCHORS TO BE USED, PRIOR TO LOADING THE CONTAINERS. MAKE SURE THE STRAPS LAY FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE FACING DOWN, AND DRAPE THE ENDS OVER THE SIDE OF THE FLATRACK. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE FLATRACK. POSITION TWO THRU FIVE LOOSE CONTAINERS ON THE FLOOR AND CENTERED OVER TOP OF BOTH STRAPS. WHILE HOLDING CONTAINERS IN POSITION, BRING EACH END OF STRAP UP, CROSS ENDS OVER TOP OF BUNDLE, AND ATTACH ENDS OF STRAP TO TIEDOWN ANCHORS ON OPPOSITE SIDES OF THE FLATRACK. TAKE UP SLACK IN STRAPS AND THEN RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE CONTAINERS, IF NECESSARY SO THEY FORM A COMPACT TIGHT BUNDLE. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF SIX OR MORE LOOSE CONTAINERS). INSTALL EACH STRAP TO ENCIRCLE ALL CONTAINERS AND TOP DECK OF PALLET. PRIOR TO POSITIONING CONTAINERS ON PALLET, THREAD STRAPS MARKED ② UNDER TOP DECK OF PALLET WITH BOTH RATCHET ENDS ON SAME SIDE OF PALLET. MAKE SURE STRAPS LAY FLAT WITH NO TWISTS IN THEM. AFTER THE CONTAINERS ARE POSITIONED ON THE PALLET, BRING ENDS OF STRAPS UP OVER TOP OF CONTAINERS AND HOOK ENDS OF STRAP TOGETHER. ADJUST STRAPS SO THEY WILL BE CLOSE TO THE BELL ON ONE END AND THE COLLAR ON THE OPPOSITE END OF CONTAINERS. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF CONTAINERS SECURED ON A PALLET). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF CONTAINERS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE FLATRACK. ATTACH WEB STRAP TIEDOWN ASSEMBLIES MARKED ④ TO THE SAME TIEDOWN ANCHORS PRIOR TO RATCHETING STRAPS MARKED ③ TIGHT. TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS MARKED ③ AT THE SAME TIME. NOTE: THE CONTAINERS SHOULD BE POSITIONED SO STRAPS MARKED ③ WILL GO STRAIGHT OVER THE TOP OF THE BUNDLE AND BE BETWEEN THE BELL ON ONE END AND THE COLLAR ON THE OPPOSITE END OF THE CONTAINER, DUE TO LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO ANGLE THESE STRAPS SLIGHTLY TO MEET THIS REQUIREMENT. SEE GENERAL NOTES "F", "G", AND "N" ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH PALLET). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND END OF PALLET AT EACH LOCATION SHOWN, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE FLATRACK. IF THESE STRAPS ARE BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS STRAPS MARKED ③, ATTACH RATCHET ENDS TO THE SAME TIEDOWN ANCHORS THAT THE NON-RATCHET ENDS OF STRAPS MARKED ③ ARE ATTACHED TO. TAKE UP SLACK IN STRAPS AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "N" ON PAGE 2.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF PALLETIZED UNIT, UNDER ALL LOOSE CONTAINERS WHICH ARE POSITIONED ON TOP OF THE PALLETIZED UNIT, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. NOTE: STRAPS MARKED ⑤ MUST BE INSTALLED OVER TOP OF THE PALLETIZED UNIT PRIOR TO POSITIONING THE LOOSE CONTAINERS ON TOP OF THE PALLETIZED UNIT. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑥ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF SIX OR MORE LOOSE COMPLETE ROUND CONTAINERS). INSTALL EACH STRAP TO ENCIRCLE ALL CONTAINERS IN THE BUNDLE AT THE APPROXIMATE LOCATION SHOWN. PRE-POSITION THESE TWO STRAPS ON TOP OF THE PALLETIZED UNIT PRIOR TO LOADING CONTAINERS. MAKE SURE STRAPS LAY FLAT AND DRAPE THE ENDS OVER THE SIDE OF THE PALLETIZED UNIT. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE PALLETIZED UNIT. POSITION THE FIRST LAYER OF CONTAINERS ON TOP OF THE PALLETIZED UNIT AND ADJUST THE STRAPS SO THEY WILL BE CLOSE TO THE BELL ON ONE END AND THE COLLAR ON THE OPPOSITE END OF THE CONTAINER. KEEP THE BOTTOM LAYER OF CONTAINERS TIGHT AGAINST EACH OTHER AND STACK THE REMAINING CONTAINERS ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED, HOOK END OF STRAPS MARKED ⑥ TOGETHER AND POSITION ON TOP OF BUNDLE. TAKE UP SLACK IN STRAPS AND THEN RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. AS THE STRAPS ARE BEING TIGHTENED MAKE POSITION ADJUSTMENTS TO THE CONTAINERS, IF NECESSARY, SO THEY FORM A COMPACT TIGHT BUNDLE. SEE SPECIAL NOTE 11 ON PAGE 34 AND GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑦ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO ENCIRCLE PALLETIZED UNIT AND ALL LOOSE CONTAINERS POSITIONED ON TOP OF THE PALLETIZED UNIT. PRIOR TO POSITIONING LOOSE CONTAINERS ON THE PALLETIZED UNIT, THREAD STRAPS MARKED ⑦ UNDER THE TOP DECK OF THE PALLET WITH BOTH RATCHET ENDS ON THE SAME SIDE OF THE PALLET. MAKE SURE THAT THE STRAPS LAY FLAT WITH NO TWISTS IN THEM. POSITION THE LOOSE CONTAINERS ON TOP OF THE PALLETIZED UNIT. ADJUST THE TWO STRAPS MARKED ⑦ SO THEY WILL BE CLOSE TO THE BELL ON ONE END AND THE COLLAR ON THE OPPOSITE END OF THE CONTAINERS. BRING ENDS OF STRAPS UP OVER TOP OF LOOSE CONTAINERS AND HOOK ENDS OF STRAP TOGETHER. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑧ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND END OF PALLET AS SHOWN, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF FLATRACK. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G" AND "N" ON PAGE 2.
- ⑨ WOOD PALLET 40" X 48" (1 REQD). SEE KEY NUMBER ② ABOVE.

(CONTINUED AT RIGHT)

(SPECIAL NOTES CONTINUED)

9. WHEN LOADING LOOSE COMPLETE ROUND CONTAINERS ALWAYS POSITION ALL CONTAINERS WITH THE OPENING ENDS POINTING IN THE SAME DIRECTION.
10. IF LOADING ONE THRU FIVE CONTAINERS ON TOP OF A PALLET UNIT OMIT STRAPS MARKED ⑨.

INDICATES TEN LOOSE C787 120MM CARTRIDGES PACKED IN PA116 SERIES CONTAINERS, POSITIONED ON TOP OF A FULL PALLET UNIT OF PA116 CONTAINERS.

INDICATES TWENTY LOOSE C787 120MM CARTRIDGES PACKED IN PA116 SERIES CONTAINERS, ON A 40" X 48" PALLET.

INDICATES TWENTY-SEVEN LOOSE C787 120MM CARTRIDGES PACKED IN PA116 SERIES CONTAINERS.

AFT END.

ISOMETRIC VIEW

(SPECIAL NOTES CONTINUED)

NOTE: SOMETIMES AN EVEN NUMBER OF CONTAINERS WILL NOT DIVIDE INTO AN EVEN NUMBER OF LAYERS THAT ARE PRACTICAL TO LOAD, SUCH AS TWENTY-SIX. IT MAY BE NECESSARY TO FABRICATE ONE BUNDLE OF EIGHTEEN CONTAINERS (THREE LAYERS OF SIX CONTAINERS EACH) AND ONE BUNDLE OF EIGHT CONTAINERS (TWO LAYERS OF FOUR CONTAINERS EACH).

SPECIAL NOTES:

1. TYPICAL METHODS OF SECURING LOOSE CARTRIDGE CONTAINERS ON TOP OF A PALLETIZED UNIT, ON THE FLOOR OF THE FLATRACK, AND ON A 40" X 48" PALLET, ARE SHOWN LOADED ON THE A-FRAME FLATRACK HAVING CARGO DECK DIMENSIONS OF 7'-6-1/2" WIDE BY 19'-0" LONG AND A MAXIMUM LOAD WEIGHT OF 33,000 POUNDS.
2. THE PROCEDURES FOR SECURING LOOSE 120MM CARTRIDGE CONTAINERS SHOWN ON THIS PAGE MAY ALSO BE USED ON THE M1 FLATRACK. SEE GENERAL NOTE "C" ON PAGE 2.
3. THE 120MM CARTRIDGE PACKED IN THE PA116 SERIES CONTAINER, HAVING DIMENSIONS OF 44-1/2" LONG BY 7-3/4" WIDE BY 7-3/4" HIGH WITH STACKING LUGS LOCATED ON THE BELL AT THE OPENING END AND THE COLLAR AT THE OPPOSITE END AND ALSO HAVING RING INTERLOCKS LOCATED ON THE CENTER COLLAR AND THE COLLAR ON THE NON-OPENING END, IS SHOWN. THESE PROCEDURES MAY BE USED FOR SIMILAR COMPLETE ROUND CONTAINERS OF DIFFERENT SIZES AND WEIGHTS.
4. GUIDANCE FOR LOADING LOOSE CONTAINERS THAT HAVE STACKING LUGS LOCATED ON THE BELL AT THE OPENING END AND THE COLLAR AT THE OPPOSITE END, AND RING INTERLOCKS LOCATED ON THE CENTER COLLAR AND THE COLLAR ON THE NON-OPENING END, SUCH AS THE PA116 SERIES CONTAINERS FOLLOWS:

- A. WHEN LOADING TWO OR THREE CONTAINERS SIDE-BY-SIDE, POSITION THE STACKING LUG ON THE SIDE SO IT LOCKS INTO THE STACKING LUG RETAINING HOLE ON THE ADJACENT CONTAINER. USE THIS PROCEDURE WHEN LOADING TWO OR THREE CONTAINERS ON THE FLATRACK FLOOR, ON A PALLET, OR ON TOP OF A PALLETIZED UNIT.
- B. WHEN LOADING AN EVEN NUMBER OF CONTAINERS SUCH AS FOUR, SIX OR TWENTY-FOUR, POSITION IN EVEN ROWS AND STACK AS SHOWN FOR THE TWENTY CONTAINER BUNDLE OF PA116 SERIES CONTAINERS ON THIS PAGE. POSITION IN EVEN NUMBER LAYERS WITH THE STACKING LUGS ON TOP SO THEY LOCK INTO THE STACKING LUG CONTAINER HOLE ON THE TOP CONTAINER. ALSO, THE RING INTERLOCKS MUST BE "ENGAGED" WITH THE RING INTERLOCKS ON ADJACENT CONTAINERS. USE THIS METHOD WHEN LOADING AN EVEN NUMBER OF CONTAINERS ON A PALLET, ON THE FLATRACK FLOOR, OR ON TOP OF A PALLETIZED UNIT.

(CONTINUED AT RIGHT)

- C. WHEN LOADING AN UNEVEN NUMBER OF CONTAINERS SUCH AS TWENTY-SEVEN, FABRICATE A BUNDLE HAVING AT LEAST FOUR LAYERS OF WHICH THE BOTTOM THREE LAYERS WOULD HAVE THE SAME QUANTITY OF CONTAINERS PER EACH LAYER AND THE TOP LAYER WOULD HAVE ONE LESS CONTAINER, AS SHOWN ON THIS PAGE. NOTE: WHEN FABRICATING A BUNDLE HAVING AN UNEVEN NUMBER OF CONTAINERS, THE TOP LAYER CAN ONLY HAVE ONE LESS CONTAINER THAN THE BOTTOM LAYERS. FOLLOW THE INSTRUCTIONS IN SPECIAL NOTE 3 B ON THIS PAGE WHEN LOADING THE FIRST THREE LAYERS OF SEVEN CONTAINERS EACH. WHEN LOADING THE TOP LAYER OF SIX CONTAINERS POSITION THE SECOND LAYER TO CENTER ON THE JOINTS BETWEEN THE CONTAINERS IN THE THIRD LAYER AND IN SUCH A MANNER THAT THE BELL IS LOCATED BEHIND AND BUTTED AGAINST THE BELLS ON THE THIRD LAYER CONTAINERS. THIS WILL PREVENT THE TOP LAYER CONTAINER BELLS FROM SLIPPING OFF THE FIRST LAYER CONTAINER BELLS DURING TRANSIT. POSITION THE STACKING LUGS ON THE SIDE OF THE CONTAINERS IN THE TOP LAYER SO THEY LOCK INTO THE STACKING LUG RETAINING HOLE ON ADJACENT CONTAINERS. USE THIS METHOD WHEN LOADING AN UNEVEN NUMBER OF CONTAINERS ON A PALLET, ON THE VEHICLE FLOOR, OR ON TOP OF A PALLETIZED UNIT.

5. WOOD PALLETS HAVING DIMENSIONS OF 40" X 48" ARE SHOWN IN THE LOAD ABOVE. HOWEVER, THE METHOD SHOWN MAY BE USED FOR WOOD PALLETS OF OTHER DIMENSIONS AND/OR METAL PALLETS.
6. THE QUANTITY OF CONTAINERS WITHIN A BUNDLE IS LIMITED TO THE QUANTITY THAT CAN BE ENCIrcLED WITH ONE WEB STRAP TIEDOWN ASSEMBLY, SHOWN AS KEY NUMBER ① ABOVE.
7. HOLD-DOWN STRAPS MARKED ⑧ ARE POSITIONED OVER TOP OF THE PALLETIZED UNIT AND MUST NOT BE POSITIONED OVER TOP OF THE LOOSE CONTAINERS ON TOP OF A PALLETIZED UNIT. SEE KEY NUMBERS ⑧ THRU ⑪ ON PAGE 37 FOR GUIDANCE WHEN LOADING LOOSE CONTAINERS ON TOP OF PALLETIZED UNITS.
8. THE QUANTITY OF LOOSE CONTAINERS POSITIONED ON TOP OF A PALLETIZED UNIT IS ONE CONTAINER UP TO A MAXIMUM OF TWO FULL LAYERS OF CONTAINERS.

(CONTINUED ABOVE LEFT)

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF SIX OR MORE LOOSE CONTAINERS). INSTALL EACH STRAP TO ENCIRCLE ALL CONTAINERS IN THE BUNDLE AT THE APPROXIMATE LOCATION SHOWN. PRE-POSITION THESE TWO STRAPS ON THE FLOOR OF THE FLATRACK, PRIOR TO LOADING THE CONTAINERS. MAKE SURE THE STRAPS LAY FLAT ACROSS THE FLOOR AND DRAPE THE ENDS OVER THE SIDE OF THE FLATRACK. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE FLATRACK. POSITION THE FIRST LAYER OF CONTAINERS ON THE FLOOR AND ADJUST THE TWO STRAPS SO THEY WILL BE CLOSE TO THE BELL ON ONE END AND COLLAR ON THE OPPOSITE END OF THE CONTAINER. KEEP THE BOTTOM LAYER OF CONTAINERS TIGHT AGAINST EACH OTHER AND STACK THE REMAINING CONTAINERS IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED, HOOK ENDS OF EACH STRAP MARKED ① TOGETHER AND POSITION ON TOP OF BUNDLE. TAKE UP SLACK IN STRAPS AND THEN RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE CONTAINERS, IF NECESSARY, SO THEY FORM A COMPACT TIGHT BUNDLE. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF SIX OR MORE LOOSE CONTAINERS). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF CONTAINERS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE FLATRACK. ATTACH WEB STRAP TIEDOWN ASSEMBLIES, MARKED ③ TO THE SAME TIEDOWN ANCHORS PRIOR TO RATCHETING STRAPS MARKED ② TIGHT. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS MARKED ② AT THE SAME TIME. NOTE: THE CONTAINERS SHOULD BE POSITIONED SO STRAPS MARKED ② WILL GO STRAIGHT OVER THE TOP OF THE BUNDLE AND BE BETWEEN THE BELL ON ONE END AND THE COLLAR ON THE OPPOSITE END OF THE CONTAINER. DUE TO LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO ANGLE STRAPS SLIGHTLY TO MEET THIS REQUIREMENT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF SIX OR MORE LOOSE CONTAINERS). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND END OF BUNDLED CONTAINERS AT LOCATION SHOWN, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. IF THESE STRAPS ARE BEING ATTACHED TO THE SAME TIEDOWN ANCHOR AS STRAPS MARKED ②, ATTACH RATCHET ENDS TO THE SAME TIEDOWN ANCHORS THAT THE NON-RATCHET ENDS OF STRAPS MARKED ② ARE ATTACHED TO. TAKE UP SLACK IN STRAPS AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G", AND "N" ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF SIX OR MORE CONTAINERS). INSTALL EACH STRAP TO ENCIRCLE ALL CONTAINERS IN THE BUNDLE AT THE APPROXIMATE LOCATION SHOWN. PRE-POSITION THESE TWO STRAPS ON THE PALLET PRIOR TO LOADING CONTAINERS. MAKE SURE STRAPS LAY FLAT ACROSS THE PALLET AND DRAPE THE ENDS OVER THE SIDE OF THE PALLET. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE PALLET. POSITION THE FIRST LAYER OF CONTAINERS ON THE PALLET AND ADJUST THE TWO STRAPS SO THEY WILL BE CLOSE TO THE BELL ON ONE END AND THE COLLAR ON THE OPPOSITE END OF THE CONTAINER. KEEP THE BOTTOM LAYER OF CONTAINERS TIGHT AGAINST EACH OTHER AND STACK THE REMAINING CONTAINERS IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED, HOOK ENDS OF EACH STRAP MARKED ④ TOGETHER AND POSITION ON TOP OF BUNDLE. TAKE UP EXCESS SLACK IN STRAPS AND THEN RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE CONTAINERS, IF NECESSARY, SO THEY FORM A COMPACT TIGHT BUNDLE. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (TWO REQD FOR EACH BUNDLE OF SIX OR MORE LOOSE CONTAINERS). INSTALL EACH STRAP TO ENCIRCLE ALL CONTAINERS AND TOP DECK OF PALLET. PRIOR TO POSITIONING CONTAINERS ON PALLET, THREAD STRAPS MARKED ⑤ UNDER THE TOP DECK OF THE PALLET WITH BOTH RATCHET ENDS ON THE SAME SIDE OF PALLET. MAKE SURE THE STRAPS LAY FLAT WITH NO TWISTS IN THEM. AFTER THE CONTAINERS ARE POSITIONED ON THE PALLET, BRING ENDS OF STRAPS UP OVER TOP OF CONTAINERS AND HOOK ENDS OF STRAP TOGETHER. ADJUST STRAPS SO THEY WILL BE CLOSE TO THE BELL ON ONE END AND THE COLLAR ON THE OPPOSITE END OF CONTAINERS. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑥ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF CONTAINERS SECURED ON A PALLET). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK OVER TOP OF

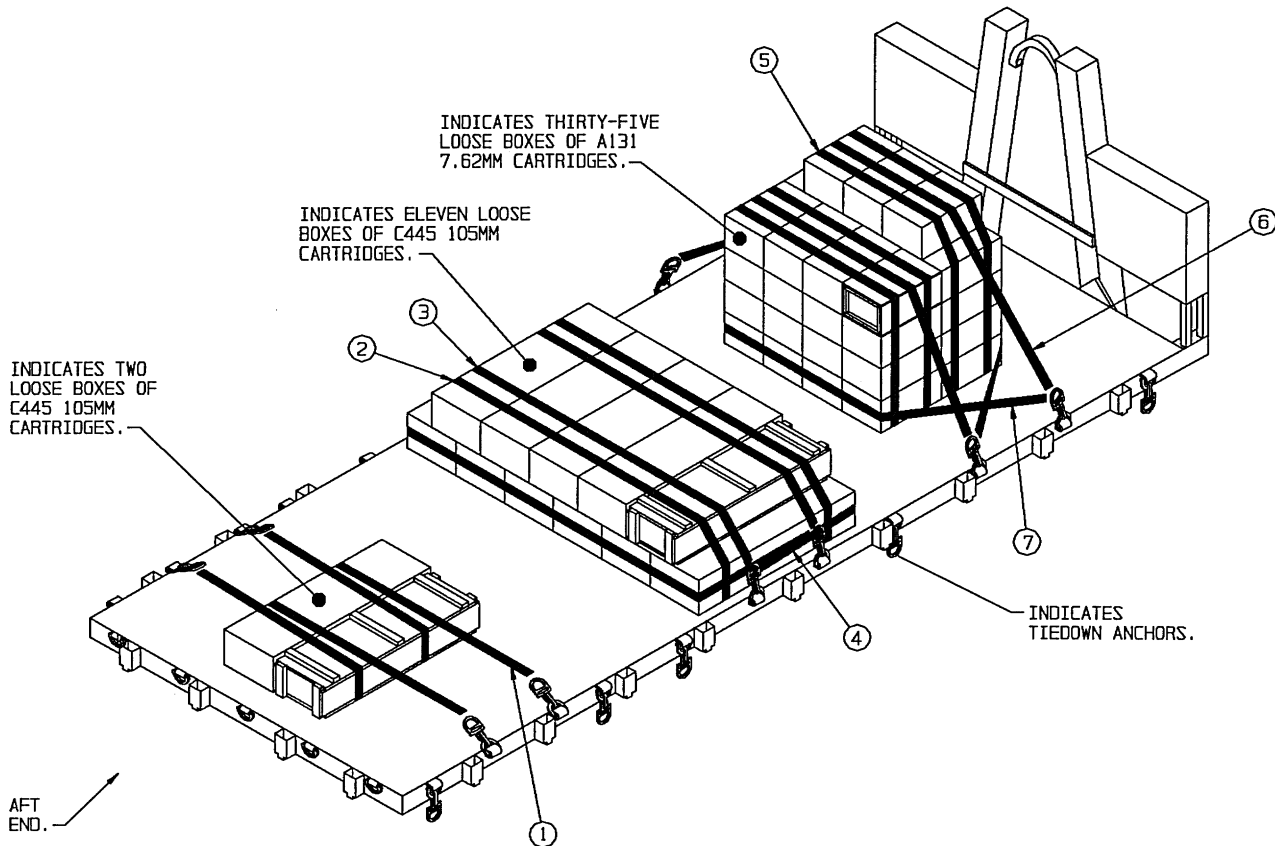
(KEY NUMBERS CONTINUED)

- CONTAINERS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE FLATRACK. ATTACH WEB STRAP TIEDOWN ASSEMBLIES MARKED ⑦ TO THE SAME TIEDOWN ANCHORS PRIOR TO RATCHETING STRAPS MARKED ⑥ TIGHT. TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS MARKED ⑥ AT THE SAME TIME. NOTE: THE CONTAINERS SHOULD BE POSITIONED SO STRAPS MARKED ⑥ WILL GO STRAIGHT OVER THE TOP OF THE BUNDLE AND BE BETWEEN THE BELL ON ONE END AND THE COLLAR ON THE OPPOSITE END OF THE CONTAINER. DUE TO LOCATION AND QUANTITY OF TIEDOWN ANCHORS, IT MAY BE NECESSARY TO ANGLE THESE STRAPS SLIGHTLY TO MEET THIS REQUIREMENT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑦ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED PER PALLET). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND END OF PALLET AT LOCATION SHOWN, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. IF THESE STRAPS ARE BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS STRAPS MARKED ⑥, ATTACH RATCHET ENDS TO THE SAME TIEDOWN ANCHORS THAT THE NON-RATCHET ENDS OF STRAPS, MARKED ⑥ ARE ATTACHED TO. TAKE UP SLACK IN STRAPS AND RATCHET TIGHT. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
 - ⑧ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED OVER TOP OF EACH PALLETIZED UNIT). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK OVER TOP OF PALLETIZED UNIT, UNDER ALL LOOSE CONTAINERS WHICH ARE POSITIONED ON TOP OF THE PALLETIZED UNIT, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT. NOTE: STRAPS MARKED ⑧ MUST BE INSTALLED OVER TOP OF THE PALLETIZED UNIT PRIOR TO POSITIONING THE LOOSE CONTAINERS ON TOP OF THE PALLETIZED UNIT. TAKE UP EXCESS SLACK IN STRAPS AND THEN RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
 - ⑨ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF SIX OR MORE LOOSE CONTAINERS). INSTALL EACH STRAP TO ENCIRCLE ALL CONTAINERS IN THE BUNDLE AT THE APPROXIMATE LOCATION SHOWN. PRE-POSITION THESE TWO STRAPS ON TOP OF THE PALLETIZED UNIT PRIOR TO LOADING CONTAINERS. MAKE SURE STRAPS LAY FLAT AND DRAPE THE ENDS OVER THE SIDE OF THE PALLETIZED UNIT. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE PALLETIZED UNIT. POSITION THE FIRST LAYER OF CONTAINERS ON TOP OF THE PALLETIZED UNIT AND ADJUST THE STRAPS SO THEY WILL BE CLOSE TO THE BELL ON ONE END AND THE COLLAR ON THE OPPOSITE END OF THE CONTAINER. KEEP THE BOTTOM LAYER OF CONTAINERS TIGHT AGAINST EACH OTHER AND STACK THE REMAINING CONTAINERS ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED, HOOK ENDS OF EACH STRAP MARKED ⑨ TOGETHER AND POSITION ON TOP OF BUNDLE. TAKE UP SLACK IN STRAPS AND THEN RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE CONTAINERS, IF NECESSARY, SO THEY FORM A COMPACT TIGHT BUNDLE. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
 - ⑩ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF SIX OR MORE CONTAINERS POSITIONED ON TOP OF A PALLET UNIT). INSTALL EACH STRAP TO ENCIRCLE PALLETIZED UNIT AND ALL LOOSE CONTAINERS POSITIONED ON TOP OF THE PALLETIZED UNIT. PRIOR TO POSITIONING LOOSE CONTAINERS ON THE PALLETIZED UNIT, THREAD STRAPS MARKED ⑩ UNDER THE TOP DECK OF THE PALLET WITH BOTH RATCHET ENDS ON THE SAME SIDE OF THE PALLET. MAKE SURE THAT THE STRAPS LAY FLAT WITH NO TWISTS IN THEM. POSITION THE FIRST LAYER OF CONTAINERS ON TOP OF THE PALLETIZED UNIT. ADJUST THE TWO STRAPS MARKED ⑩ SO THEY WILL BE CLOSE TO THE BELL ON ONE END AND THE COLLAR ON THE OPPOSITE END OF THE CONTAINER. KEEP THE BOTTOM LAYER OF CONTAINERS TIGHT AGAINST EACH OTHER AND STACK THE REMAINING CONTAINERS ON TOP OF THE BOTTOM LAYER. AFTER ALL CONTAINERS ARE STACKED, BRING ENDS OF STRAPS UP OVER TOP OF LOOSE CONTAINERS AND HOOK ENDS OF STRAPS TOGETHER. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. NOTE: AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE CONTAINERS SO THEY FORM A TIGHT BUNDLE ON TOP OF THE PALLETIZED UNIT. SINCE THE CONTAINERS MAY SEEK THEIR NATURAL POSITION DURING TRANSPORT, CHECK STRAPS FOR TIGHTNESS AND RE-TIGHTEN IF NECESSARY. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
 - ⑪ WEB STRAP TIEDOWN ASSEMBLY (ONE REQUIRED). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND END OF PALLET AS SHOWN, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G" AND "N" ON PAGE 2.
 - ⑫ WOOD PALLET, 40" X 48" (1 REQD). SEE KEY NUMBER ⑤ ON THIS PAGE.

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120MM CARTRIDGE CONTAINERS

PAGE 37



ISOMETRIC VIEW

SPECIAL NOTES:

1. TYPICAL METHODS OF SECURING LOOSE BOXES ON THE FLOOR OF THE FLATRACK ARE SHOWN LOADED ON THE A-FRAME FLATRACK HAVING CARGO DECK DIMENSIONS OF 7'-6-1/2" WIDE BY 19'-0" LONG AND A MAXIMUM LOAD WEIGHT OF 33,000 POUNDS.
2. THE PROCEDURES FOR SECURING LOOSE 7.62MM OR 105MM CARTRIDGE WOODEN BOXES SHOWN ON THIS PAGE MAY ALSO BE USED ON THE M1 FLATRACK. SEE GENERAL NOTE "C" ON PAGE 2.
3. THE 105MM CARTRIDGE, PACKED TWO PER WOODEN BOX HAVING DIMENSIONS OF 45-3/4" LONG BY 14-1/4" WIDE BY 8-3/4" HIGH AND THE 7.62MM CARTRIDGE, PACKED 800 PER WOODEN BOX AND HAVING DIMENSIONS OF 17-1/2" LONG BY 11-1/2" WIDE BY 8-1/8" HIGH, ARE SHOWN. THESE PROCEDURES MAY BE USED FOR BOXES OF DIFFERENT SIZES AND WEIGHTS.
4. THE QUANTITY OF BOXES WITHIN A BUNDLE IS LIMITED TO THE QUANTITY THAT CAN BE ENCIRCLED WITH ONE WEB STRAP TIEDOWN ASSEMBLY, SHOWN AS KEY NUMBERS ② AND ⑤ ABOVE.
5. FOR ALTERNATIVE METHODS OF SECURING LOOSE BOXES, SEE PAGES 40 AND 41.

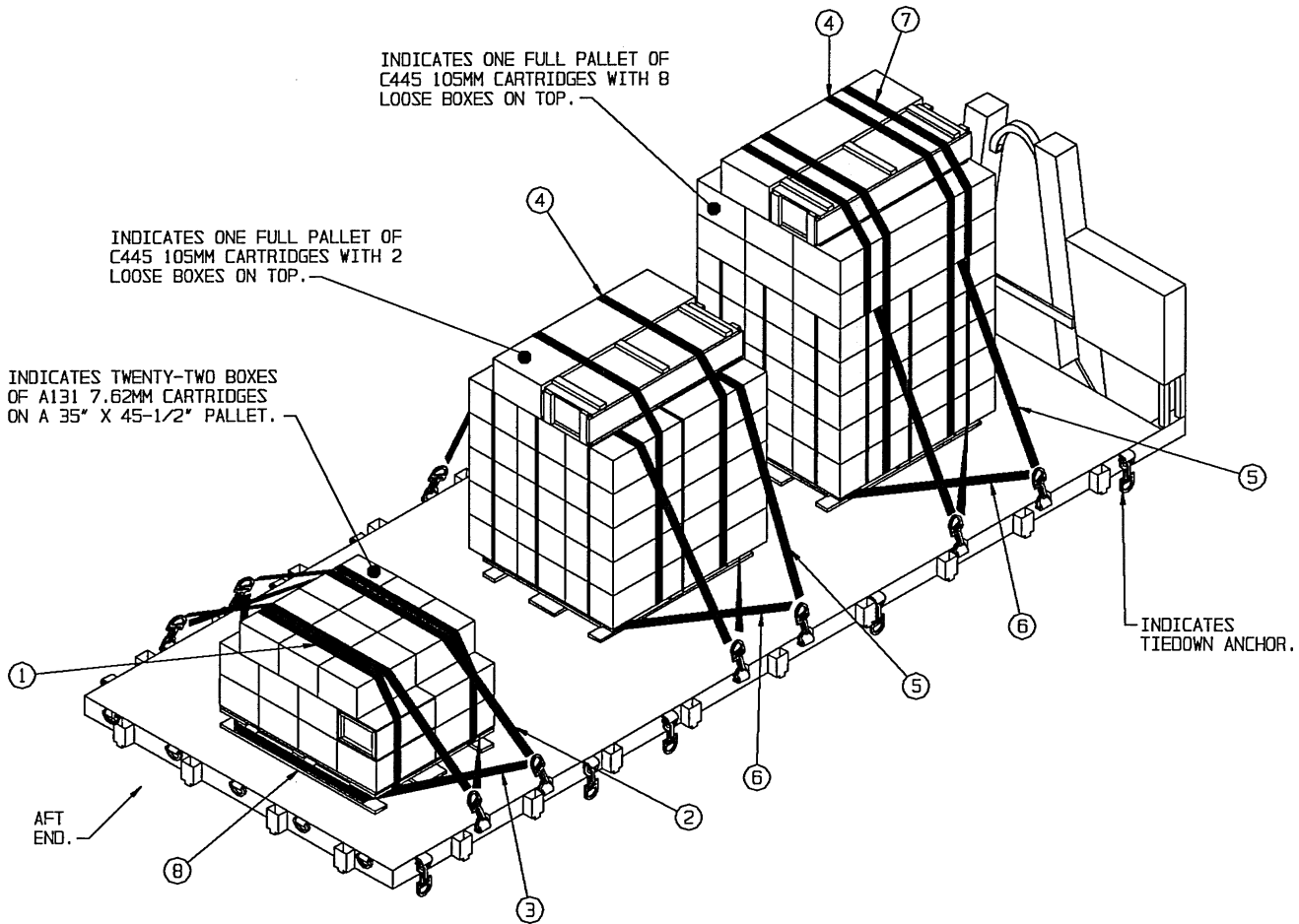
KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF ONE TO THREE LOOSE BOXES). INSTALL EACH STRAP TO ENCIRCLE ALL BOXES IN THE BUNDLE. PREPOSITION THESE TWO STRAPS ON THE FLOOR OF THE FLATRACK, IN LINE WITH THE TIEDOWN ANCHORS TO BE USED, PRIOR TO LOADING THE BOXES. MAKE SURE THE STRAPS LAY FLAT ACROSS THE FLOOR, WITH THE RATCHET HANDLE FACING DOWN, AND DRAPE THE ENDS OVER THE SIDE OF THE FLATRACK. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE FLATRACK. POSITION BOXES ON THE FLOOR AND CENTERED OVER TOP OF BOTH STRAPS. WHILE HOLDING BOXES IN POSITION, BRING EACH END OF STRAP UP, CROSS ENDS OVER TOP OF BUNDLE, AND ATTACH ENDS OF STRAP TO TIEDOWN ANCHORS ON OPPOSITE SIDES OF THE FLATRACK, TAKE UP SLACK IN STRAPS AND THEN RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE BOXES, IF NECESSARY, SO THEY FORM A COMPACT TIGHT BUNDLE. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF FOUR OR MORE LOOSE BOXES). INSTALL EACH STRAP TO ENCIRCLE ALL BOXES IN THE BUNDLE AT THE APPROXIMATE LOCATION SHOWN. PRE-POSITION THESE TWO STRAPS ON THE FLOOR OF THE FLATRACK PRIOR TO LOADING THE BOXES. MAKE SURE STRAPS LAY FLAT ACROSS THE FLOOR AND DRAPE THE ENDS OVER THE SIDE OF THE FLATRACK. POSITION THE FIRST LAYER OF BOXES ON THE FLOOR AND ON TOP OF THE STRAPS. KEEP THE BOTTOM LAYER OF BOXES TIGHT AGAINST EACH OTHER AND STACK THE REMAINING BOXES IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL BOXES ARE STACKED, HOOK ENDS OF EACH STRAP MARKED ② TOGETHER AND POSITION ON TOP OF BUNDLE. TAKE UP SLACK IN STRAPS AND THEN RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE BOXES, IF NECESSARY, SO THEY FORM A COMPACT BUNDLE. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF FOUR OR MORE LOOSE BOXES). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK OVER TOP OF BOXES TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE FLATRACK. ATTACH WEB STRAP TIEDOWN ASSEMBLIES, MARKED ④ TO THE SAME TIEDOWN ANCHORS PRIOR TO RATCHETING STRAPS MARKED ③ TIGHT. TAKE UP SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS MARKED ③ AT THE SAME TIME. NOTE: THE BOXES SHOULD BE POSITIONED SO STRAPS MARKED ③ WILL GO STRAIGHT OVER THE TOP OF THE BUNDLE. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH BUNDLE OF FOUR OR MORE LOOSE BOXES). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND END OF BUNDLED BOXES AT THE LOCATION SHOWN, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. IF THESE STRAPS ARE BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS STRAPS MARKED ③, ATTACH RATCHET ENDS TO THE SAME TIEDOWN ANCHORS THAT THE NON-RATCHET ENDS OF STRAPS MARKED ③ ARE ATTACHED TO. TAKE UP SLACK IN STRAPS AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G" AND "N" ON PAGE 2.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH STACK OF FOUR OR MORE LOOSE BOXES). INSTALL EACH STRAP TO ENCIRCLE ALL BOXES IN THE STACK AT THE APPROXIMATE LOCATION SHOWN. PRE-POSITION THESE TWO STRAPS ON THE FLOOR OF THE FLATRACK PRIOR TO LOADING BOXES. MAKE SURE STRAPS LAY FLAT ACROSS THE FLOOR AND DRAPE ENDS OVER SIDE OF FLATRACK. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE FLATRACK. POSITION THE FIRST LAYER OF BOXES ON THE FLOOR AND ON TOP OF THE STRAPS. KEEP THE BOTTOM LAYER OF BOXES TIGHT AGAINST EACH OTHER AND STACK REMAINING BOXES IN LAYERS ON TOP OF THE BOTTOM LAYER. AFTER ALL BOXES ARE STACKED, HOOK ENDS OF EACH STRAP MARKED ⑤ TOGETHER AND POSITION ON TOP OF BUNDLE. TAKE UP SLACK IN STRAPS AND THEN RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE BOXES, IF NECESSARY, SO THEY FORM A COMPACT TIGHT BUNDLE. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.

(CONTINUED AT RIGHT)

(KEY NUMBERS CONTINUED)

- ⑥ WEB STRAP TIEDOWN ASSEMBLY (ONE REQUIRED FOR EACH STACK OF FOUR OR MORE LOOSE BOXES). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF BOXES, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION BOTH STRAP RATCHETS ON SAME SIDE OF FLATRACK. ATTACH WEB STRAP TIEDOWN ASSEMBLIES MARKED ⑦ TO THE SAME TIEDOWN ANCHORS PRIOR TO RATCHETING STRAPS MARKED ⑥ TIGHT. TAKE UP SLACK IN STRAPS AND THEN RATCHET TIGHT BOTH STRAPS MARKED ⑥ AT THE SAME TIME. NOTE: THE BOXES SHOULD BE POSITIONED SO STRAPS MARKED ⑥ WILL GO STRAIGHT OVER THE TOP OF THE BUNDLE. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑦ WEB STRAP TIEDOWN ASSEMBLY (TWO REQUIRED FOR EACH STACK OF FOUR OR MORE LOOSE BOXES). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND END OF BUNDLED BOXES AT LOCATION SHOWN, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. IF THESE STRAPS ARE BEING ATTACHED TO THE SAME TIEDOWN ANCHOR AS STRAPS MARKED ⑥, ATTACH RATCHET ENDS TO THE SAME TIEDOWN ANCHORS THAT THE NON-RATCHET ENDS OF STRAPS MARKED ⑥ ARE ATTACHED TO. TAKE UP SLACK IN STRAPS AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G" AND "N" ON PAGE 2.



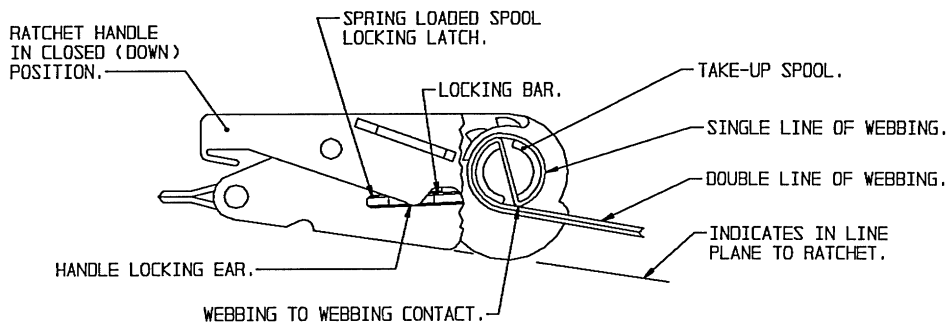
ISOMETRIC VIEW

SPECIAL NOTES:

1. TYPICAL METHODS OF SECURING LOOSE BOXES ON TOP OF A PALLET UNIT AND/OR 35" X 45-1/2" PALLET ARE SHOWN LOADED ON THE A-FRAME FLATRACK HAVING CARGO DECK DIMENSIONS OF 7'-6-1/2" WIDE BY 19'-0" LONG AND A MAXIMUM LOAD WEIGHT OF 33,000 POUNDS.
2. THE PROCEDURES FOR SECURING LOOSE 7.62MM OR 105MM CARTRIDGES IN WOODEN BOXES SHOWN ON THIS PAGE MAY ALSO BE USED ON THE M1 FLATRACK. SEE GENERAL NOTE "C" ON PAGE 2.
3. THE 105MM CARTRIDGE, PACKED TWO PER WOODEN BOX HAVING DIMENSIONS OF 45-3/4" LONG BY 14-1/4" WIDE BY 8-3/4" HIGH AND THE 7.62MM CARTRIDGE PACKED 800 PER WOODEN BOX AND HAVING DIMENSIONS OF 17-1/2" LONG BY 11-1/2" WIDE BY 8-1/8" HIGH, ARE SHOWN. THESE PROCEDURES MAY BE USED FOR BOXES OF DIFFERENT SIZES AND WEIGHTS.
4. THE QUANTITY OF BOXES POSITIONED ON A 35" X 45-1/2" PALLET AND/OR ON TOP OF A PALLET UNIT IS LIMITED TO THE QUANTITY THAT CAN BE ENCIRCLED WITH ONE WEB STRAP TIEDOWN ASSEMBLY, SHOWN AS KEY NUMBERS ① AND ⑦ ABOVE.
5. FOR ALTERNATIVE METHODS OF SECURING LOOSE BOXES, SEE PAGES 38 AND 39.
6. A 35" X 45-1/2" PALLET IS SHOWN, HOWEVER, PALLETS OF OTHER DIMENSIONS MAY BE USED.

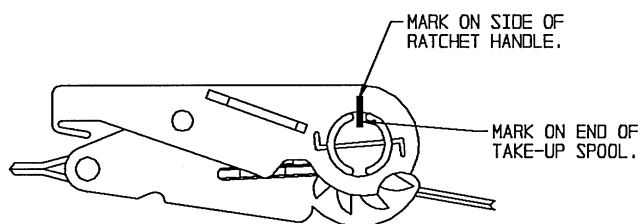
KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO ENCIRCLE ALL BOXES AND TOP DECK OF THE PALLET MARKED ⑧. PRIOR TO POSITIONING BOXES ON PALLET, THREAD STRAPS MARKED ① UNDER THE TOP DECK OF PALLET WITH BOTH RATCHET ENDS ON THE SAME SIDE OF PALLET. MAKE SURE THE STRAPS LAY FLAT WITH NO TWISTS IN THEM. AFTER THE BOXES ARE POSITIONED ON THE PALLET, BRING ENDS OF STRAP UP OVER TOP OF BOXES AND HOOK ENDS OF STRAP TOGETHER. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK OVER TOP OF BOXES TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE LOAD. ATTACH WEB STRAP TIEDOWN ASSEMBLIES MARKED ③ TO THE SAME TIEDOWN ANCHORS PRIOR TO RATCHETING STRAPS MARKED ② TIGHT. TAKE UP SLACK IN STRAPS AND THEN RATCHET TIGHT BOTH STRAPS MARKED ② AT THE SAME TIME. NOTE: THE BOXES SHOULD BE POSITIONED SO STRAPS MARKED ② WILL GO STRAIGHT OVER THE TOP OF THE BUNDLE. SEE GENERAL NOTES "F", "G" AND "N" ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND END OF PALLET AT LOCATION SHOWN, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. IF THESE STRAPS ARE BEING ATTACHED TO THE SAME TIEDOWN ANCHORS AS STRAPS MARKED ②, ATTACH RATCHET ENDS TO THE SAME TIEDOWN ANCHORS THAT THE NON-RATCHET ENDS OF STRAPS MARKED ② ARE ATTACHED TO. TAKE UP SLACK IN STRAPS AND THEN RATCHET TIGHT. SEE GENERAL NOTES "F", "G" AND "N" ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (4 REQD). INSTALL EACH STRAP TO ENCIRCLE PALLETIZED UNIT AND ALL LOOSE BOXES POSITIONED ON TOP OF THE PALLETIZED UNIT. PRIOR TO POSITIONING LOOSE BOXES ON THE PALLETIZED UNIT, THREAD STRAPS MARKED ④ UNDER THE TOP DECK OF THE PALLET WITH BOTH RATCHET ENDS ON THE SAME SIDE OF THE PALLET. MAKE SURE THAT THE STRAPS LAY FLAT WITH NO TWISTS IN THEM. POSITION THE BOXES ON TOP OF THE PALLET UNIT, BRING ENDS OF STRAPS UP OVER TOP OF LOOSE BOXES AND HOOK ENDS OF STRAP TOGETHER. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. NOTE: AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE BOXES SO THEY FORM A TIGHT BUNDLE ON TOP OF THE PALLETIZED UNIT. SINCE THE BOXES MAY SEEK THEIR NATURAL POSITION DURING TRANSPORT, CHECK STRAPS FOR TIGHTNESS AND RE-TIGHTEN IF NECESSARY. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑤ WEB STRAP TIEDOWN ASSEMBLY (4 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, OVER TOP OF PALLETIZED UNIT, UNDER ALL LOOSE BOXES WHICH ARE POSITIONED ON TOP OF THE PALLETIZED UNIT, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. NOTE: STRAPS MARKED ⑤ MUST BE INSTALLED OVER TOP OF THE PALLETIZED UNIT PRIOR TO POSITIONING THE LOOSE BOXES ON TOP OF THE PALLETIZED UNIT. TAKE UP EXCESS SLACK IN STRAPS AND THEN RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑥ WEB STRAP TIEDOWN ASSEMBLY (4 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND END OF PALLET AS SHOWN, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF FLATRACK. TAKE UP EXCESS SLACK IN STRAP AND RATCHET TIGHT. SEE GENERAL NOTES "F", "G" AND "N" ON PAGE 2.
- ⑦ WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO ENCIRCLE ALL BOXES IN THE BUNDLE AT THE APPROXIMATE LOCATION SHOWN. PREPOSITION THESE TWO STRAPS ON TOP OF THE PALLETIZED UNIT PRIOR TO LOADING BOXES. MAKE SURE STRAPS LAY FLAT AND DRAPE THE ENDS OVER THE SIDE OF THE PALLETIZED UNIT. POSITION BOTH STRAP RATCHETS ON THE SAME SIDE OF THE PALLETIZED UNIT. POSITION THE FIRST LAYER OF BOXES ON TOP OF THE PALLETIZED UNIT. KEEP THE BOTTOM LAYER OF BOXES TIGHT AGAINST EACH OTHER AND STACK THE REMAINING BOXES ON TOP OF THE BOTTOM LAYER. AFTER ALL BOXES ARE STACKED, HOOK ENDS OF STRAPS MARKED ⑦ TOGETHER AND POSITION ON TOP OF BUNDLE. TAKE UP EXCESS SLACK IN STRAPS AND RATCHET TIGHT BOTH STRAPS AT THE SAME TIME. AS THE STRAPS ARE BEING TIGHTENED, MAKE POSITION ADJUSTMENTS TO THE BOXES, IF NECESSARY, SO THEY FORM A COMPACT TIGHT BUNDLE. SEE GENERAL NOTES "F" AND "G" ON PAGE 2.
- ⑧ WOOD PALLET, 35" X 45-1/2" (1 REQD). SEE KEY NUMBER ① ON THIS PAGE.



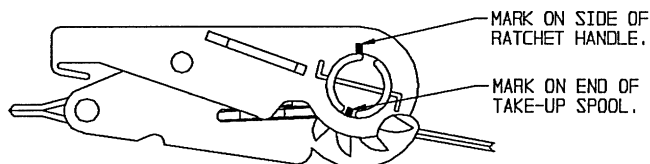
STEP 1

IN THIS VIEW PART OF THE RATCHET HOUSING IS SHOWN BROKEN AWAY TO DEPICT WEBBING-TO-WEBBING CONTACT ON THE TAKE-UP SPOOL OF THE RATCHET. WEBBING-TO-WEBBING CONTACT IS ACHIEVED WHEN THE OPERATOR HOLDS THE DOUBLE LINE OF WEBBING IN AN "IN LINE PLANE TO THE RATCHET" AND IT MAKES CONTACT WITH THE SINGLE LINE OF WEBBING.



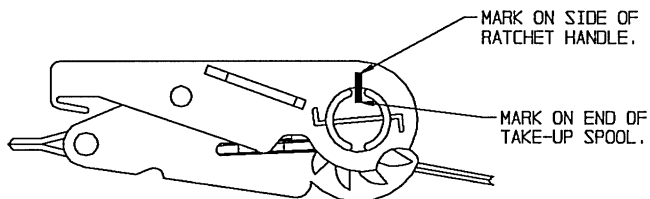
STEP 2

THIS VIEW DEPICTS THE LOCATION OF THE FIXED MARK ON THE RATCHETING HANDLE, WITH ANOTHER MATCHING MARK ON THE TAKE-UP SPOOL, AFTER WEBBING-TO-WEBBING CONTACT HAS BEEN MADE.



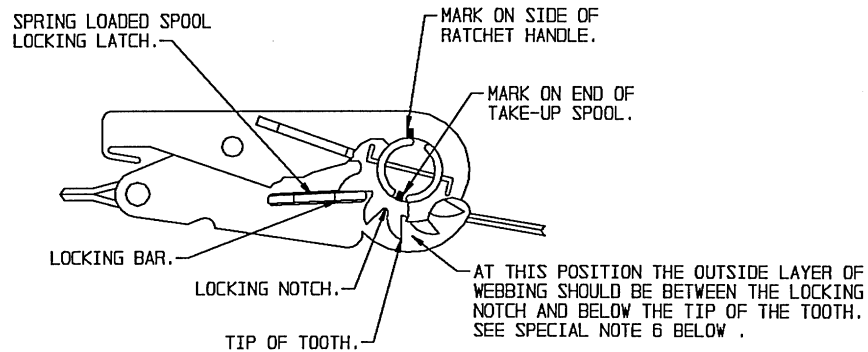
STEP 3

THIS VIEW DEPICTS THE LOCATION OF THE MARK ON THE END OF THE TAKE-UP SPOOL AFTER THE SPOOL HAS BEEN ROTATED ONE-HALF TURN, AFTER WEBBING-TO-WEBBING CONTACT HAS BEEN MADE.



STEP 4

THIS VIEW DEPICTS THE LOCATION OF THE MARK ON THE END OF THE TAKE-UP SPOOL AFTER THE SPOOL HAS BEEN ROTATED ONE FULL TURN, AFTER WEBBING-TO-WEBBING CONTACT HAS BEEN MADE.



STEP 5

THIS VIEW DEPICTS THE LOCATION OF THE MARK ON THE END OF THE TAKE-UP SPOOL AFTER THE SPOOL HAS BEEN ROTATED ONE AND ONE-HALF TURNS, AFTER WEBBING-TO-WEBBING CONTACT HAS BEEN MADE. ALSO IN THIS VIEW, PART OF THE RATCHET HANDLE IS BROKEN AWAY TO SHOW THE LOCKING BAR FULLY SEATED IN THE MATCHING LOCKING NOTCH (SPROCKET GEAR TEETH).

SPECIAL NOTES:

1. THE PURPOSE OF THE RATCHET DETAILS ON PAGE 42 AND THE DETAIL AND NOTES ON THIS PAGE ARE TO AUGMENT THE GUIDANCE SET FORTH WITHIN GENERAL NOTE "F" ON PAGE 2.
2. THE REQUIREMENTS FOR 1/2 BUT NOT MORE THAN 1-1/2 WRAPS OF STRAP ON THE TAKE-UP SPOOL OF THE TENSIONING RATCHET, AS SPECIFIED WITHIN GENERAL NOTE "F" ON PAGE 2, ACTUALLY MEANS 1/2 TO 1-1/2 WRAPS OF DOUBLE WEBBING. ALSO, THE 1/2 TO 1-1/2 WRAPS (TURNS) ARE TO BE ACCOMPLISHED ONLY AFTER ENOUGH WEBBING HAS BEEN WOUND ONTO THE SPOOL TO ACHIEVE A WEBBING-TO-WEBBING CONTACT CONFIGURATION, AS SHOWN IN THE "STEP 1" DETAIL ON PAGE 42.
3. ONE METHOD THAT CAN BE USED TO ENSURE THAT THE 1/2 TO 1-1/2 WRAPS ARE WOUND ONTO THE TAKE-UP SPOOL, AFTER WEBBING-TO-WEBBING CONTACT HAS BEEN MADE, IS TO PLACE A FIXED MARK (PAINT OR SIMILAR MATERIAL) ON THE SIDE OF THE RATCHETING HANDLE, WITH THE HANDLE IN ITS CLOSED (DOWN) POSITION, AND ANOTHER SHORT MATCHING MARK ON THE END OF THE SPOOL, AS SHOWN IN THE "STEP 2" DETAIL ON PAGE 42. AS THE SPOOL IS ROTATED TO TENSION A TIEDOWN STRAP ASSEMBLY, THE NUMBER OF WRAPS (TURNS) CAN BE DETERMINED VISUALLY BY COMPARING THE "MARK" LOCATION ON THE SPOOL TO THE "MARK" LOCATION ON THE RATCHETING HANDLE WITH THE HANDLE IN CLOSED POSITION. SEE THE "STEP 3" AND "STEP 4" DETAILS ON PAGE 42, AND "STEP 5" ABOVE.
4. ANOTHER METHOD THAT CAN BE USED TO ENSURE THAT THE 1/2 TO 1-1/2 WRAPS ARE ACHIEVED, AFTER WEBBING-TO-WEBBING CONTACT HAS BEEN MADE, IS TO COUNT THE AUDIBLE CLICKS MADE BY THE RATCHET ASSEMBLY AS A WEB STRAP ASSEMBLY IS BEING TENSIONED. THE RATCHET ASSEMBLY ON MOST WEB STRAP ASSEMBLIES HAS 11 TEETH ON THE GEARLIKE DEVICE ON EACH END OF THE TAKE-UP SPOOL; SOME OTHER STRAP ASSEMBLIES HAVE ONLY 9 TEETH. THEREFORE, AFTER INITIAL WEBBING-TO-WEBBING CONTACT HAS BEEN MADE, ROTATE (TURN) THE SPOOL THROUGH A MINIMUM OF 6 TO A MAXIMUM OF 16 CLICKS (1/2 TO 1-1/2 WRAPS) WHEN THE GEAR HAS 11 TEETH, AND ROTATE (TURN) THE SPOOL THROUGH A MINIMUM OF 5 TO A MAXIMUM OF 13 CLICKS (1/2 TO 1-1/2 WRAPS) IF THE GEAR HAS 9 TEETH.

(CONTINUED AT RIGHT)

(SPECIAL NOTES CONTINUED)

5. AFTER A STRAP ASSEMBLY HAS BEEN PROPERLY TENSIONED, CARE MUST BE EXERCISED TO ASSURE THAT THE TAKE-UP SPOOL LOCKING LATCH (SPRING LOADED DEVICE WITH A LOCKING BAR ON EACH SIDE OF THE RATCHET ASSEMBLY) IS FULLY SEATED ON BOTH SIDES IN MATCHING LOCKING NOTCHES, WHICH ARE SIMILAR TO SPROCKET GEAR TEETH, THAT ARE LOCATED ON EACH END OF THE TAKE-UP SPOOL. SEE "STEP 5" DETAIL ABOVE. THE LOCKING LATCH IS "FULLY SEATED" WHEN THE HANDLE WILL CLOSE AND THE LOCKING EAR, OR SIMILAR DEVICE ON THE HANDLE, PREVENTS THE ACCIDENTAL WITHDRAWAL OF THE LOCKING LATCH. SEE "STEP 1" DETAIL ON PAGE 42. IF THE FULLY SEATED CONDITION CANNOT BE ACHIEVED, THE STRAP MUST BE RELEASED AND HAND RETENSIONED AS TIGHT AS POSSIBLE TO ACHIEVE THE FULLY SEATED CONDITION.
6. ANOTHER VISUAL METHOD OF DETERMINING WHEN THERE IS 1/2 TO 1-1/2 WRAPS OF WEBBING ON THE TAKE-UP SPOOL, AFTER INITIAL WEBBING-TO-WEBBING CONTACT HAS BEEN MADE, IS TO LOOK AT THE SPOOL. WHEN A TIEDOWN IS COMPLETE, THE STRAP WEBBING ON THE SPOOL OF THE RATCHET SHOULD BE ABOVE THE LOWER CURVE OF THE LOCKING NOTCH, AND SHOULD BE BELOW THE TIPS OF THE TEETH OF THE RATCHET AS IDENTIFIED IN "STEP 5" ABOVE. IT SHOULD BE NOTED THAT ANY PROCEDURES THAT ENSURE PROPER TENSIONING ARE ACCEPTABLE AND THE METHODS ON THE DRAWING ONLY PROVIDE SOME OF THE APPROVED ACCEPTABLE ONES.

