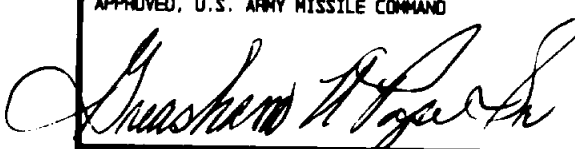
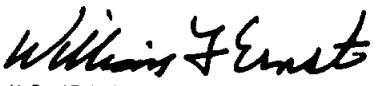

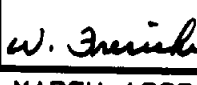


HELLFIRE

LOADING, TIEDOWN, AND UNLOADING PROCEDURES FOR SHIPMENT OF THE GUIDED MISSILE PACKED ONE PER METAL CONTAINER, PALLETIZED AND/OR UNPALLETIZED, IN/ON TACTICAL VEHICLES

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U.S. ARMY MATERIEL COMMAND DRAWING			
APPROVED, U.S. ARMY MISSILE COMMAND 		DRAFTSMAN	TECHNICIAN
		B. BOWMAN	R. HAYNES
		J. SIMONS	J. SIMONS
APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIEL COMMAND 		VALIDATION ENGINEERING DIVISION	TRANSPORTATION ENGINEERING DIVISION
			
		MARCH 1983	
U.S. ARMY DEFENSE AMMUNITION CENTER AND SCHOOL REVISION NO. 1 OCTOBER 1995		CLASS	DIVISION
SEE THE REVISION LISTING ON PAGE 2		DRAWING	FILE
		19	48

DO NOT SCALE

PROJECT GM 738-81

GENERAL NOTES

(GENERAL NOTES CONTINUED FROM LEFT)

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE WITH AR 740-1.
- B. THIS DRAWING COVERS PROCEDURES APPLICABLE TO THE TRANSPORT OF THE HELLFIRE GUIDED MISSILE PACKED ONE (1) PER SEALED OR STRETCHED METAL CONTAINER, AND NINE (9) PER PALLET UNIT. SUBSEQUENT REFERENCE TO CONTAINER MEANS THE CONTAINER WITH CONTENTS, AND SUBSEQUENT REFERENCE TO PALLET UNIT MEANS THE PALLET UNIT OF NINE (9) CONTAINERS WITH CONTENTS.
- C. FOR DETAIL OF THE SEALED CONTAINER SEE APN DRAWING NUMBER 13155079 AND PAGE 5 OF THIS DRAWING.
- CONTAINER DIMENSIONS-78" LONG BY 14-5/8" WIDE BY 18-1/2" HIGH.
GROSS WEIGHT-----185 POUNDS (APPROX).
CUBE-----10.8 CUBIC FEET.
- PALLET UNIT DIMENSIONS-78" WIDE BY 44-3/8" LONG BY 53" HIGH.
GROSS WEIGHT-----1,749 POUNDS (APPROX).
CUBE-----103.4 CUBIC FEET.
- D. FOR DETAIL OF THE STRETCHED CONTAINER SEE PAGE 5 OF THIS DRAWING.
- CONTAINER DIMENSIONS-84" LONG BY 14-5/8" WIDE BY 18-1/2" HIGH.
GROSS WEIGHT-----203 POUNDS (APPROX).
CUBE-----11.4 CUBIC FEET.
- PALLET UNIT DIMENSIONS-84" WIDE BY 44-3/8" LONG BY 53" HIGH.
GROSS WEIGHT-----1,921 POUNDS.
CUBE-----114.3 CUBIC FEET.
- E. DEPICTED PROCEDURES APPLY TO TACTICAL VEHICLES HAVING FACTORY INSTALLED TIEDOWN ANCHORS AND/OR TACTICAL VEHICLES WHICH HAVE BEEN MODIFIED TO INCLUDE THE UNIVERSALLY APPLICABLE "TIEDOWN KIT" WHICH CONSISTS OF THE TIEDOWN FITTINGS OR ANCHOR DEVICES FOR INSTALLATION IN/ON CARGO BEDS, SIDE WALLS, AND/OR END WALLS, FOR USE WITH WEB STRAP TIEDOWN ASSEMBLIES. SEE PAGE 23 FOR GUIDANCE.
- F. ALL LOADS SHOWN HEREIN ARE TYPICAL AND ARE BASED ON TESTED PROCEDURES FOR OFF-HIGHWAY TRANSPORT OF CONTAINERS AND/OR PALLETIZED ITEMS. COMBINATIONS OF PROCEDURES MAY BE USED IN/ON ANY TACTICAL VEHICLE. HOWEVER, THE APPROVED METHODS SPECIFIED HEREIN MUST BE FOLLOWED AS CLOSELY AS POSSIBLE.
- G. 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 24 AND 25.
- H. ADJUSTABLE SCUFF SLEEVES PROVIDED ON WEB STRAP TIEDOWN 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.
- J. IF THE SIDE RACKS FOR A SEMITRAILER ARE TO BE TRANSPORTED ON THE LOADED TRAILER, THEY WILL BE STACKED ON THE TRAILER AND SECURED WITH A SUFFICIENT QUANTITY OF WEB STRAP TIEDOWN ASSEMBLIES TO PREVENT LOSS DURING TRANSPORT. NOTE: IF DESIRED, THE SIDE RACKS FOR THE M871 AND M872 SEMITRAILERS MAY BE POSITIONED IN PLACE AFTER THE LOAD HAS BEEN SECURED. AFTER ALL SIDE PANELS AND REAR PANELS ARE IN POSITION, THE STAKES MUST BE SECURELY "PINNED" OR "WIRE-TIED" TO THE STAKE POCKETS TO PREVENT VERTICAL DISPLACEMENT DURING TRANSPORT. ALSO, THE SIDE PANELS MUST BE SECURED AT THE TOP WITH THE CROSS-CHAINS WHICH ARE PROVIDED WITH THE VEHICLE.
- K. 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.
- L. 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.
- M. CONVERSION TO METRIC EQUIVALENTS: DIMENSIONS WITHIN THIS DOCUMENT ARE EXPRESSED IN INCHES AND WEIGHTS ARE EXPRESSED IN POUNDS. WHEN NECESSARY, THE METRIC EQUIVALENTS MAY BE COMPUTED ON THE BASIS OF ONE INCH EQUALS 25.4 MM AND ONE POUND EQUALS 0.454 KG.
- N. SOME TIEDOWN METHODS WITHIN THIS DRAWING SHOW TWO HOOKS TO BE CONNECTED TO ONE TIEDOWN EYE. THIS IS AUTHORIZED AS SPECIFIED HEREIN.
- O. TIEDOWN PROCEDURES SHOWN WITHIN THIS DRAWING ALSO APPLY TO DROP SIDE VEHICLES HAVING TIEDOWN ANCHORS INSTALLED ON THE DROP SIDES. THE TAILGATE MUST ALWAYS BE IN THE CLOSED POSITION TO HELP STRENGTHEN THE DROP SIDES.
- P. DURING LONG HAULS, WHEN POSSIBLE, STRAPS SHOULD BE CHECKED DURING VEHICLE STOPS AND TIGHTENED, IF NECESSARY.
- Q. ONLY THE CARGO BODIES OR BEDS OF THE TACTICAL VEHICLES HAVE BEEN SHOWN HEREIN TO PREVENT DISTRACTION FROM THE DELINEATED LOADING AND TIEDOWN PROCEDURES, AND ARE SHOWN IN OUTLINE FORM WITH THE STRUCTURAL PORTIONS OMITTED AS NECESSARY TO IMPROVE THE CLARITY OF THE DEPICTED PROCEDURES.
- R. DUE TO VARIOUS REASONS, SUCH AS ROUGH TERRAIN DURING OFF-HIGHWAY TRANSPORT, PANIC STOPS, METAL FLOORS ON VEHICLES 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.
- S. IF THE TIEDOWN ANCHORS ON THE SIDE OF THE VEHICLE ARE TOO CLOSE TOGETHER, TOO FAR APART, OR ARE NOT IN A LOCATION THAT WILL ALLOW ADEQUATE HOLD DOWN OF LOAD WHEN WEB STRAPS ARE POSITIONED STRAIGHT OVER TOP, THE LOAD HOLD-DOWN STRAPS MAY BE CROSSED OVER THE TOP OF THE LOAD AS SHOWN IN THE LOAD ON PAGE 7.
- T. FOR ADDITIONAL GUIDANCE SEE THE "LOADING, TIEDOWN, AND UNLOADING PROCEDURES" ON PAGE 3, THE "SPECIAL NOTES" ON EACH LOAD PAGE, AND THE "LOAD PLANNING GUIDANCE CHART" ON PAGE 4.

(GENERAL NOTES CONTINUED AT RIGHT)

MATERIAL SPECIFICATIONS

STRAP - - - - - : WEBBING, UNIVERSAL TIEDOWN,
NSN 5340-01-204-3009, PNI092419, OR
NSN 5340-01-089-4997, PNI1869588, OR
NSN 1870-00-725-1437, PNI1378-013, OR
NSN 5340-00-980-9277, PNI0900680.

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

REVISIONS

REVISION NO. 1, DATED OCTOBER 1995
CONSISTS OF:

1. ADDING THE NEW STRETCHED CONTAINER AND PALLET UNIT.
2. UPDATING DRAWING FORMAT.

LOADING, TIEDOWN, AND UNLOADING PROCEDURES

1. PRIOR TO LOADING AND/OR UNLOADING, SET BRAKES ON TACTICAL VEHICLE AND DROP TAILGATE. IF LOADING AND/OR UNLOADING TRUCK OR TRAILER, REMOVE SIDE RACKS FROM SEMITRAILERS, AND CANVAS COVERS AND BOWS FROM TRUCK OR TRAILER.
2. 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 STRAP. SEE GENERAL NOTE "G" ON PAGE 2.
3. WHEN TWO STRAPS ARE TO BE ATTACHED TO THE SAME TIEDOWN ANCHOR, ATTACH THE RATCHET END OF ONE STRAP AND THE NON-RATCHET END OF THE SECOND STRAP TO THE TIEDOWN ANCHOR, PRIOR TO RATCHETING STRAPS TIGHT.
4. IF THE WEB STRAP TIEDOWN ASSEMBLIES BEING USED DO NOT HAVE SWIVEL HOOKS ON EACH END, ASSURE THAT ALL TWISTS ARE OUT OF STRAP PRIOR TO ATTACHING HOOKS TO TIEDOWN ANCHORS.
5. WHEN TRANSPORTING LESS THAN FULL LOADS ON TRUCKS AND/OR SEMITRAILERS, DO NOT POSITION PALLETTS OR OTHER ITEMS OF LADING, WITHIN FIVE FEET OF AFT END, IF POSSIBLE, AS THIS IS THE ROUGHEST RIDING AREA IN/ON THE VEHICLE.
6. PALLETIZED UNITS MUST NOT BE STACKED MORE THAN ONE HIGH. CONTAINERS MAY BE POSITIONED ON TOP OF A PALLET UNIT AND SECURED WITH WEB STRAP TIEDOWN ASSEMBLIES, AS SHOWN ON PAGE 22. CONTAINERS MAY BE STACKED AND/OR BUNDLED ON TOP OF EACH OTHER AS SHOWN ON PAGES 16 THROUGH 21. STACKS MUST BE STABLE, SECURED TIGHTLY TO THE VEHICLE FLOOR, AND MUST NOT EXCEED THE LOAD HEIGHT OF THE VEHICLE BEING LOADED.
7. THE M871 SEMITRAILER IS EQUIPPED WITH THREE DIFFERENT TYPES OF TIEDOWN ANCHORS. TYPE I IS A REMOVABLE TIEDOWN ANCHOR THAT HAS ONE RING AND IS POSITIONED BY REACHING UNDER THE FLOOR OF THE TRAILER, INSERTING IT UP THRU THE HOLE AND ROTATING IT INTO POSITION (NOTE THAT THIS REMOVABLE TIEDOWN ANCHOR IS ALSO USED ON THE M872 SEMITRAILER). THERE ARE LOCATIONS FOR 10 OF THESE TIEDOWN ANCHORS ON EACH SIDE OF THE M871 SEMITRAILER. TYPE II IS A REMOVABLE TIEDOWN ANCHOR THAT HAS TWO RINGS AND IS POSITIONED BY DEPRESSING A SPRING LOCK LEVER AND INSERTING IT INTO A 1-3/4" DIAMETER HOLE FROM THE TOP. ASSURE THAT THE TIEDOWN ANCHOR IS FIRMLY SEATED AND ROTATED SO THE SPRING LOCK LEVER IS POINTING AWAY FROM THE DIRECTION OF THE PULL ON THE ATTACHED WEB STRAP ASSEMBLY. THERE ARE LOCATIONS FOR 10 OF THESE TIEDOWN ANCHORS ON EACH SIDE OF THE M871 SEMITRAILER. TYPE III IS A FIXED TIEDOWN ANCHOR THAT HAS ONE RING AND IS RECESSED INTO THE FLOOR. THERE ARE FIVE OF THESE TIEDOWN ANCHORS ON EACH SIDE OF THE M871 SEMITRAILER. NORMALLY TYPE II AND TYPE III TIEDOWN ANCHORS ARE USED TO SECURE THE LOAD. HOWEVER, TYPE I TIEDOWN ANCHORS MAY BE USED, IF AVAILABLE WHEN THERE IS AN INSUFFICIENT QUANTITY OF TYPE II TIEDOWN ANCHORS. SEE THE LOAD ON PAGE 20 AND THE TIEDOWN ANCHOR DETAILS ON PAGE 23.
8. THE M872 SEMITRAILER IS EQUIPPED WITH TWO DIFFERENT TYPES OF TIEDOWN ANCHORS AS INDICATED IN THE LOAD ON PAGES 12 AND 13. TYPE I IS A REMOVABLE TIEDOWN ANCHOR THAT HAS ONE RING AND IS POSITIONED BY REACHING UNDER THE FLOOR OF THE TRAILER, INSERTING IT UP THROUGH THE HOLE AND ROTATING IT INTO POSITION (NOTE THAT THIS REMOVABLE TIEDOWN ANCHOR MAY ALSO BE USED ON THE M871 SEMITRAILER). THERE ARE 28 LOCATIONS FOR THESE TIEDOWN ANCHORS ON EACH SIDE OF THE M872 SEMITRAILERS, THE QUANTITY AND LOCATION MAY VARY ON SOME M872 SEMITRAILERS. THE SECOND TYPE OF TIEDOWN ANCHOR IS THE "TEE-HOOK". THIS IS A REMOVABLE TIEDOWN ANCHOR EQUIPPED WITH ONE ELONGATED RING AND IS POSITIONED BY INSERTING IT INTO ONE OF THE ELONGATED SLOTTED HOLES WHICH ARE AT A 45° ANGLE TO THE SIDE OF THE TRAILER. THERE ARE FIVE LOCATIONS FOR THESE TIEDOWN ANCHORS ON EACH SIDE OF THE M872 SEMITRAILERS. THE QUANTITY AND LOCATION MAY VARY ON SOME M872 SEMITRAILERS. ASSURE THAT THE TIEDOWN ANCHOR IS FIRMLY SEATED AND ROTATED APPROXIMATELY 45° TO ENGAGED POSITION BEFORE ATTACHING THE WEB STRAP TIEDOWN ASSEMBLY. THE LOAD ON PAGE 12 REQUIRES THE USE OF 34 TYPE I TIEDOWN ANCHORS (17 ON EACH SIDE OF THE TRAILER). NO TEE-HOOK TIEDOWN ANCHORS ARE REQUIRED, HOWEVER, THEY MAY BE USED IF DESIRED. SEE "TIEDOWN ANCHOR DETAILS" ON PAGE 23.

(CONTINUED AT RIGHT)

(LOADING, TIEDOWN, AND UNLOADING PROCEDURES CONTINUED)

9. WHEN A LOAD RESTRAINING WEB STRAP IS ATTACHED TO A VEHICLE TIEDOWN ANCHOR, THE WEB STRAP, THE STRAP HOOK, AND/OR RATCHET IF USING A STRAP HAVING THE RATCHETS AT THE VERY END OF THE STRAP, MUST FORM A STRAIGHT LINE IN THE DIRECTION OF PULL FROM THE VEHICLE TIEDOWN ANCHOR. THE STRAP HOOK, AND/OR END-OF-STRAP RATCHET MUST NOT BIND AGAINST THE VEHICLE FLOOR, AND/OR EDGE OF VEHICLE FLOOR IF VEHICLE TIEDOWN ANCHORS ARE LOCATED ALONG THE SIDE, SUCH AS ON THE M127 SEMITRAILER. IF THE STRAP HOOK, AND/OR END-OF-STRAP RATCHET, CONTACT THE FLOOR IN SUCH MANNER THAT THE DIRECTION OF THE PULL IS NOT A STRAIGHT LINE, AN INTERFACE, SUCH AS A CLEVIS, HAVING THE SAME STRENGTH AS THE VEHICLE TIEDOWN ANCHOR, MUST BE ATTACHED TO THE VEHICLE TIEDOWN ANCHOR. THE WEB STRAP WILL THEN BE ATTACHED TO THE INTERFACE. NOTE THAT CONTACT OF THE STRAP HOOK AND/OR END-OF-STRAP RATCHET WITH THE FLOOR OF THE VEHICLE IS PERMITTED AS LONG AS THE LOAD RESTRAINING STRAP, STRAP HOOK, AND/OR END-OF-STRAP RATCHET FORMS A STRAIGHT LINE IN THE DIRECTION OF PULL FROM THE VEHICLE TIEDOWN ANCHOR.
10. PRIOR TO LOADING THE VEHICLE, DETERMINE THE QUANTITY OF ITEMS TO BE LOADED IN/ON THE VEHICLE. SELECT THE BEST METHOD TO SECURE THE ITEMS FROM THE METHODS SHOWN WITHIN THIS DRAWING. NOTE: A COMBINATION OF THE METHODS SHOWN WITHIN THIS DRAWING MAY BE USED IN/ON THE SAME TACTICAL VEHICLE.

LOAD PLANNING GUIDANCE CHART

WHEN TRANSPORTING PALLET UNITS AND/OR CONTAINERS ON TACTICAL VEHICLES, USE THE FOLLOWING CHART FOR LOAD PLANNING GUIDANCE. ALL THE VEHICLES LISTED IN THE CHART ARE NOT SHOWN IN THIS DOCUMENT. OTHER TYPES OF VEHICLES NOT LISTED IN THIS CHART MAY BE USED AS LONG AS THEY COMPLY WITH GENERAL NOTE "E" ON PAGE 2. SEE THE LOAD PLANNING NOTES BELOW.

TACTICAL VEHICLE			HELLFIRE MISSILE	
			PALLET SEE PAGE	CONTAINER SEE PAGE
M101	CARGO TRAILER	3/4-TON	NONE	14 THRU 16
M105	CARGO TRAILER	1-1/2-TON	6	14 THRU 16
M999A1	HEMAT	11-TON	6 THRU 9	14 THRU 21
M127	SEMITRAILER	12-TON	6 THRU 12	14 THRU 21
M871	SEMITRAILER	22-1/2-TON	6 THRU 12	14 THRU 21
M872	SEMITRAILER	34-TON	6 THRU 12	14 THRU 21
M1077	FLATRACK	18-1/2-TON	6 THRU 10	14 THRU 19
M1	FLATRACK	14.8-TON	6 THRU 11	14 THRU 19
M561	CARGO TRUCK	1-1/4-TON	6	14 THRU 16
M751	CARGO TRUCK	1-1/4-TON	6	14 THRU 16
M1008	CUCV	1-1/4-TON	6	14 THRU 16
M34	CARGO TRUCK	2-1/2-TON	6 THRU 7	14 THRU 17
M35	CARGO TRUCK	2-1/2-TON	6 THRU 7	14 THRU 17
M36/M36C	CARGO TRUCK	2-1/2-TON	6 THRU 7	14 THRU 17
M135	CARGO TRUCK	2-1/2-TON	6 THRU 7	14 THRU 17
M211	CARGO TRUCK	2-1/2-TON	6 THRU 7	14 THRU 17
M802	CARGO TRUCK	2-1/2-TON	6 THRU 7	14 THRU 17
M47	CARGO TRUCK	2-1/2-TON	6 THRU 7	14 THRU 17
M58	DUMP TRUCK	2-1/2-TON	6 THRU 7	14 THRU 17
M215	DUMP TRUCK	2-1/2-TON	6 THRU 7	14 THRU 17
M342	DUMP TRUCK	2-1/2-TON	6 THRU 7	14 THRU 17
M814	DUMP TRUCK	2-1/2-TON	6 THRU 7	14 THRU 17
M824	DUMP TRUCK	2-1/2-TON	6 THRU 7	14 THRU 17
M41	CARGO TRUCK	5-TON	6 THRU 11	14 THRU 18
M54	CARGO TRUCK	5-TON	6 THRU 11	14 THRU 18
M55	CARGO TRUCK	5-TON	6 THRU 11	14 THRU 18
M656	CARGO TRUCK	5-TON	6 THRU 11	14 THRU 18
M813	CARGO TRUCK	5-TON	6 THRU 11	14 THRU 18
M814	CARGO TRUCK	5-TON	6 THRU 11	14 THRU 18
M839	CARGO TRUCK	5-TON	6 THRU 11	14 THRU 18
M51	DUMP TRUCK	5-TON	6 THRU 11	14 THRU 18
M817	DUMP TRUCK	5-TON	6 THRU 11	14 THRU 18
M548	CARGO CARRIER	6-TON	6 THRU 11	14 THRU 18
M520	CARGO TRUCK	6-TON	6 THRU 11	14 THRU 18
M125	CARGO TRUCK	10-TON	6 THRU 11	14 THRU 18
M877/M885	HEMTT	10-TON	6 THRU 11	14 THRU 18

INDEX

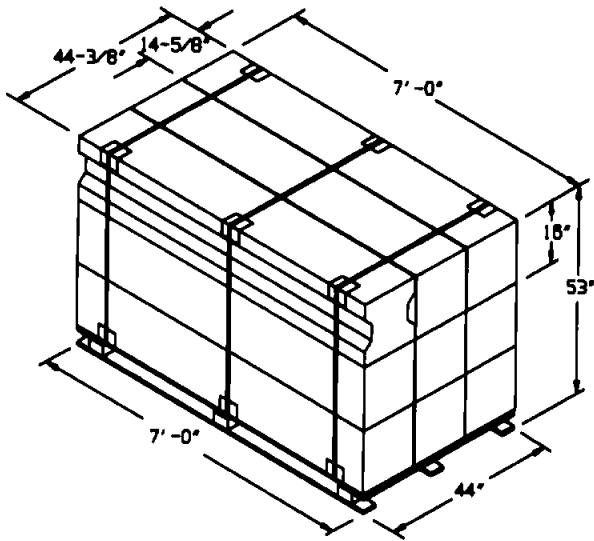
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NOTE: THE TACTICAL VEHICLES LISTED IN THE INDEX ABOVE AND SHOWN WITHIN THIS DRAWING WERE SELECTED AS TYPICAL ONLY. OTHER TYPES OF VEHICLES MAY BE USED IN LIEU OF THOSE SHOWN AS LONG AS THEY COMPLY WITH GENERAL NOTE "E" ON PAGE 2.

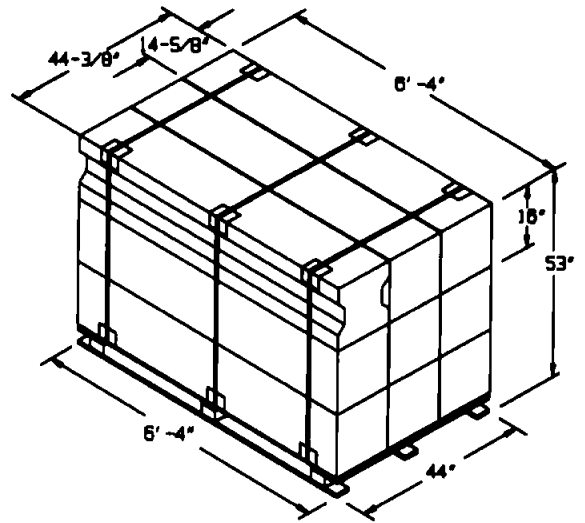
LOAD PLANNING NOTES:

1. DETERMINE THE QUANTITY OF PALLET UNITS AND/OR CONTAINERS TO BE LOADED IN/ON THE TACTICAL VEHICLE.
2. SELECT THE BEST METHOD OF SECURING THE PALLET UNITS AND/OR CONTAINERS FROM THE METHODS SHOWN ON THE REFERENCED PAGES. A COMBINATION OF METHODS SHOWN MAY BE USED IN/ON THE SAME TACTICAL VEHICLE.



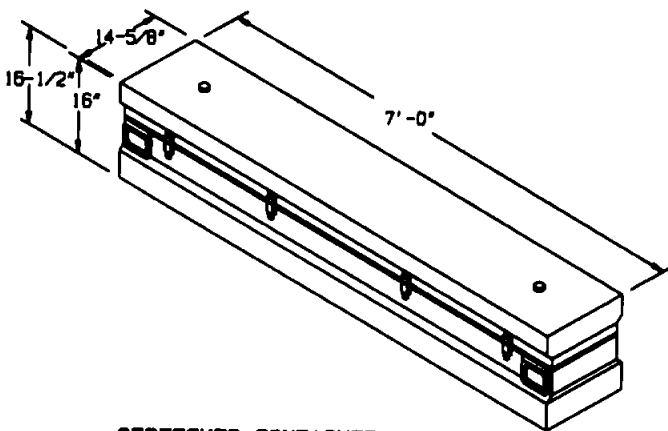
STRETCHED CONTAINER PALLET UNIT

GROSS WEIGHT - - - - - 1,921 LBS (APPROX)
 CUBE - - - - - 114.3 CUBIC FEET



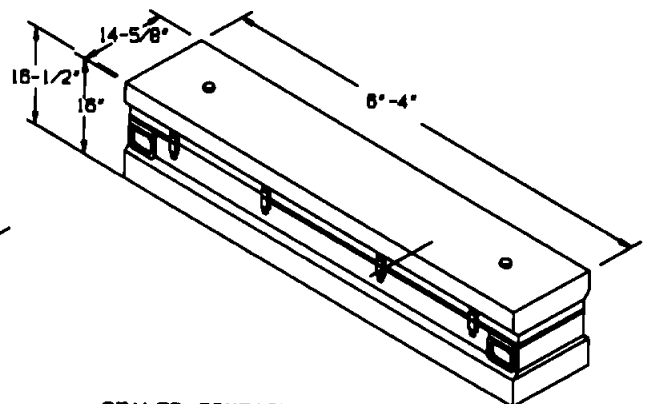
SEALED CONTAINER PALLET UNIT

GROSS WEIGHT - - - - - 1,749 LBS (APPROX)
 CUBE - - - - - 103.4 CUBIC FEET



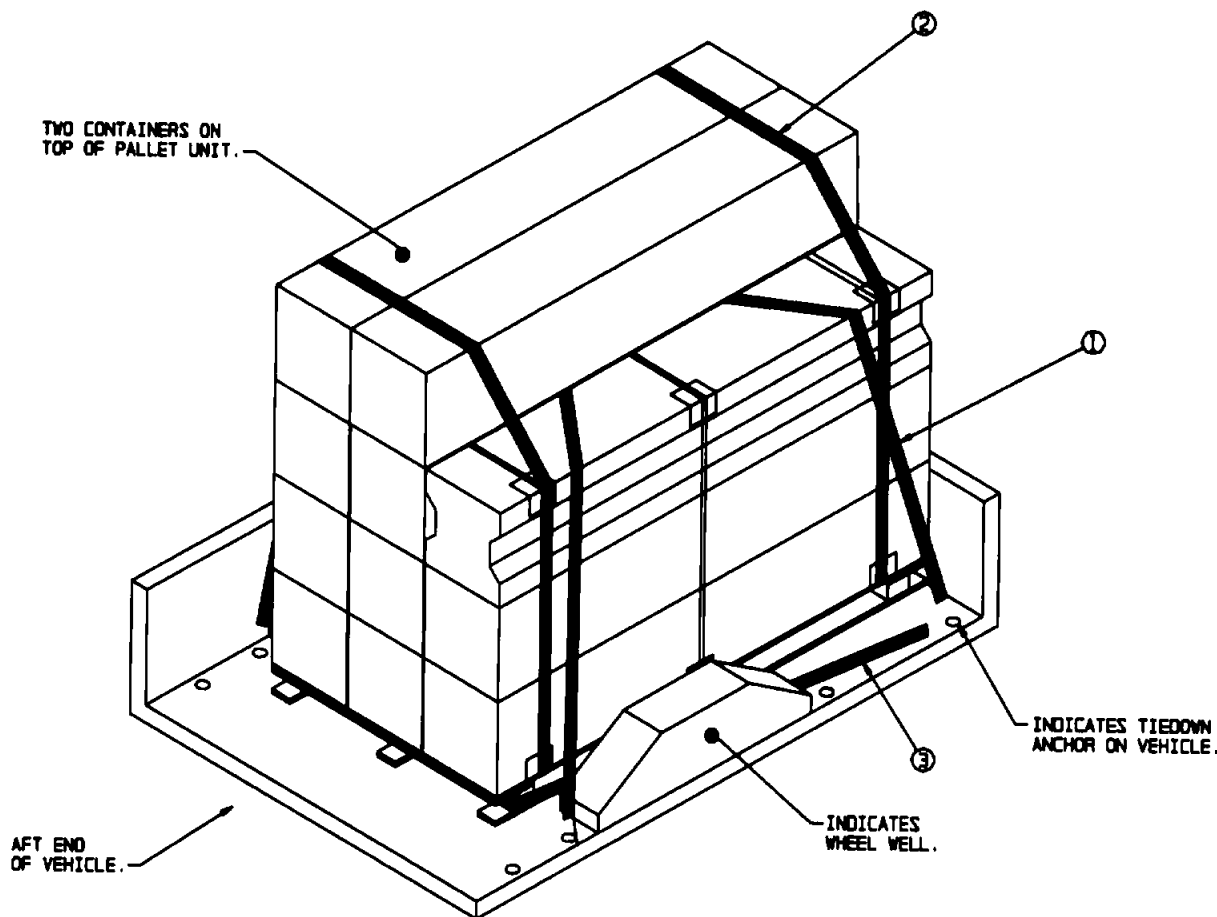
STRETCHED CONTAINER

GROSS WEIGHT - - - - - 203 LBS (APPROX)
 CUBE - - - - - 11.4 CUBIC FEET



SEALED CONTAINER

GROSS WEIGHT - - - - - 185 LBS (APPROX)
 CUBE - - - - - 10.6 CUBIC FEET



ISOMETRIC VIEW

KEY NUMBERS

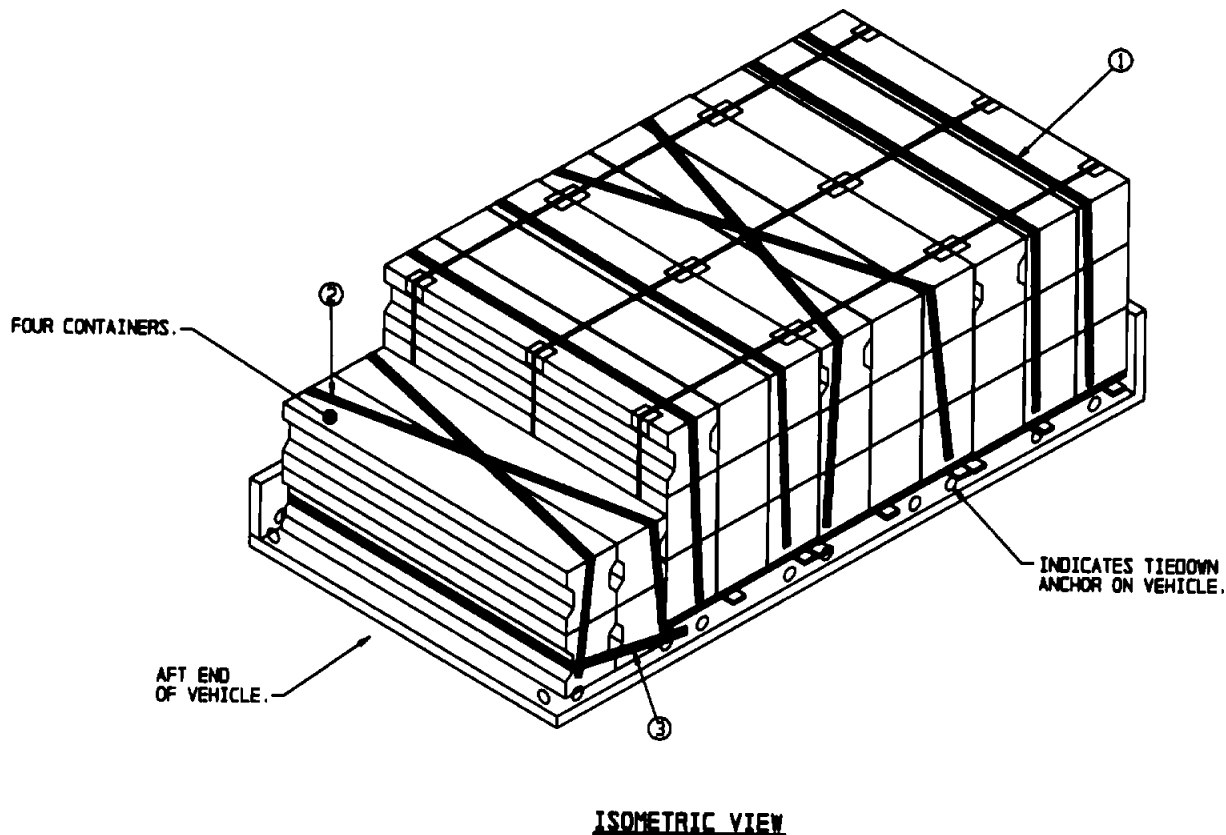
SPECIAL NOTES:

1. A TYPICAL LOAD OF ONE PALLET UNIT IS SHOWN IN A 1-1/4-TON M100B COMMERCIAL UTILITY CARGO VEHICLE (CUCV), HAVING INSIDE DIMENSIONS OF 98" LONG BY 85" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN.
3. CENTER THE PALLET ACROSS THE VEHICLE WIDTH AND TIGHT AGAINST THE FORWARD END WALL.
4. IF DESIRED, ADDITIONAL CONTAINERS MAY BE POSITIONED ON TOP OF A PALLET UNIT AS SHOWN IN THE LOAD ABOVE. SEE THE ALTERNATIVE PROCEDURES FOR SHIPMENT OF CONTAINERS ON PAGE 22.
5. THE STRETCHED CONTAINER PALLET UNIT IS SHOWN IN THE LOAD ABOVE. IF LOADING THE SEALED CONTAINER PALLET UNIT FOLLOW THESE SAME PROCEDURES.
6. A TOTAL OF FIVE WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF PALLETIZED UNIT, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP RATCHETS ON THE SAME SIDE OF THE LOAD. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "S", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO ENCIROLE THE PALLET UNIT AND ALL BOXES POSITIONED ON TOP. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", AND "H", ON PAGE 2, AND THE ALTERNATIVE PROCEDURES FOR SHIPMENT OF CONTAINERS ON PAGE 22.
- ③ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND PALLET BASE AS SHOWN, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", AND "H", ON PAGE 2.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLET UNIT	1	1,921 LBS
CONTAINER	2	406 LBS
TOTAL WEIGHT		2,327 LBS



SPECIAL NOTES:

1. A TYPICAL LOAD OF THREE PALLET UNITS IS SHOWN IN A 5-TON M825A1 CARGO TRUCK HAVING INSIDE DIMENSIONS OF 188" LONG BY 88" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN.
3. CENTER THE PALLETS ACROSS THE VEHICLE WIDTH AND TIGHT AGAINST THE FORWARD END WALL.
4. IF DESIRED, ADDITIONAL CONTAINERS MAY BE POSITIONED ON THE VEHICLE FLOOR AS SHOWN IN THE LOAD ABOVE. SEE PAGES 14 THROUGH 21 FOR ADDITIONAL LOAD GUIDANCE.
5. THE STRETCHED CONTAINER PALLET UNIT IS SHOWN IN THE LOAD ABOVE. IF LOADING THE SEALED CONTAINER PALLET UNIT FOLLOW THESE SAME PROCEDURES.
6. A TOTAL OF NINE WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

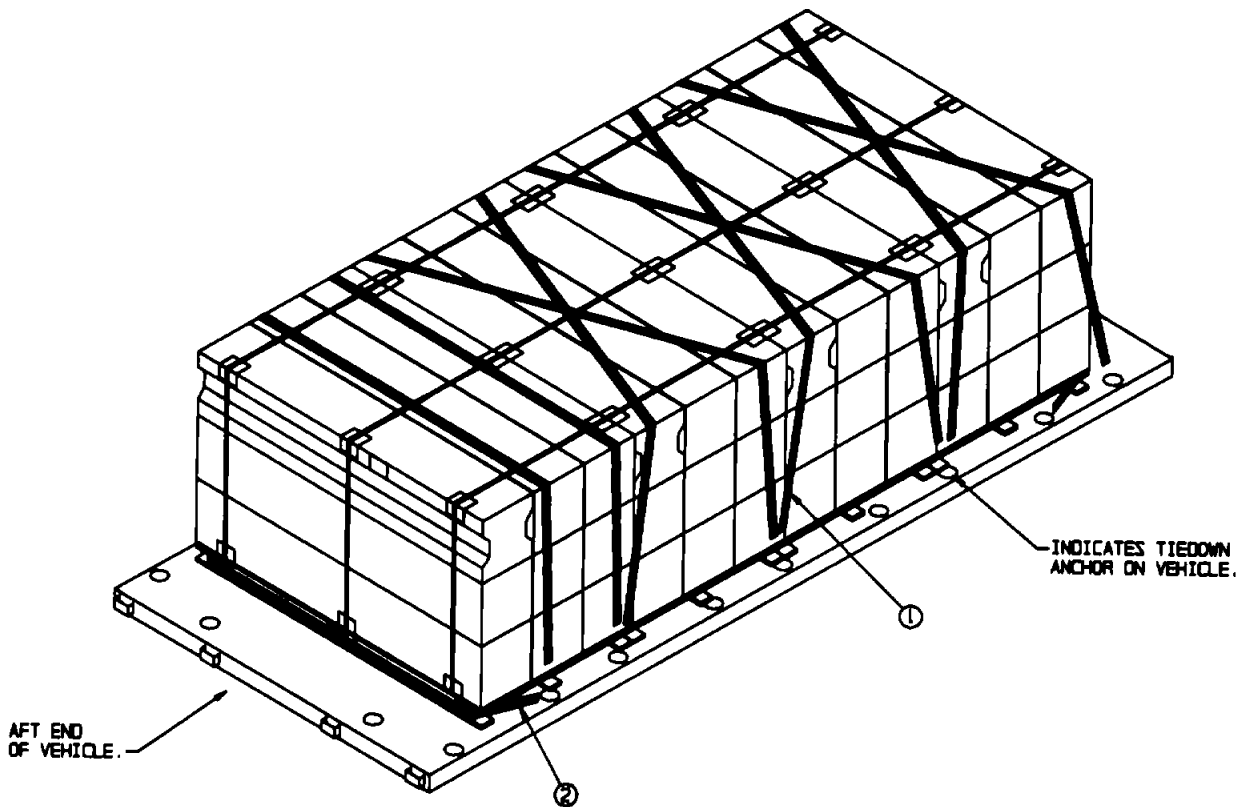
KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (8 REQ'D). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF PALLETIZED UNIT, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "S", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQ'D). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "S", ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (1 REQ'D). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND BOTTOM AFT END CONTAINER TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", AND "H", ON PAGE 2.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLET UNIT	3	5,763 LBS
CONTAINER	4	812 LBS
TOTAL WEIGHT		8,575 LBS

THREE PALLET UNITS IN A 5-TON M825A1 CARGO TRUCK



ISOMETRIC VIEW

SPECIAL NOTES:

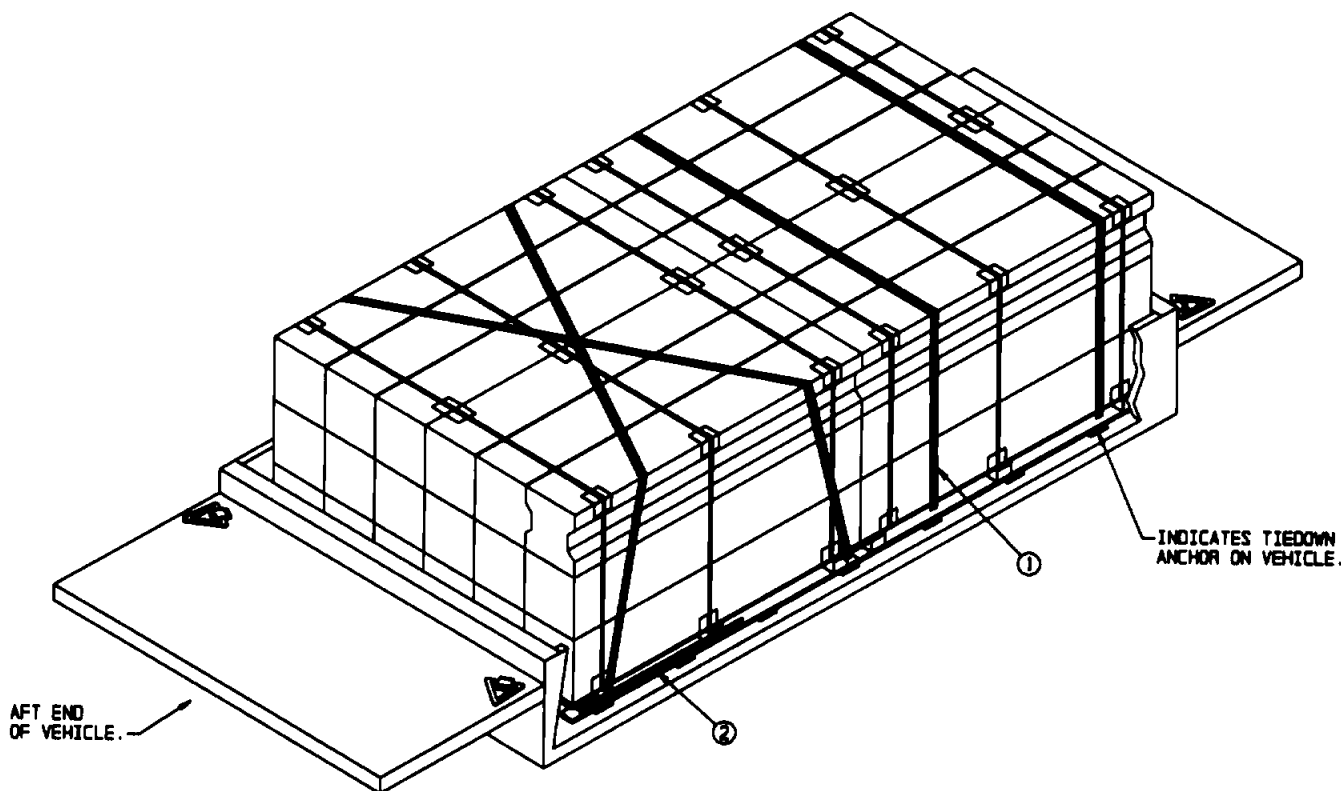
1. A TYPICAL LOAD OF FOUR PALLET UNITS IS SHOWN ON A 10-TON M977 AND/OR M985 HEAVY EXPANDED MOBILITY TACTICAL TRUCK (HEMTT) HAVING INSIDE DIMENSIONS OF 216-3/8" LONG BY 90-3/4" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN.
3. CENTER THE PALLET ACROSS THE VEHICLE WIDTH AND IN A LONGITUDINAL LOCATION THAT WILL ALLOW TWO WEB STRAPS TO BE POSITIONED OVER THE TOP OF EACH PALLET. DO NOT POSITION THE PALLET AGAINST THE END WALLS.
4. IF DESIRED, ADDITIONAL CONTAINERS MAY BE POSITIONED ON TOP OF A PALLET UNIT AND/OR ON THE VEHICLE FLOOR. SEE THE ALTERNATIVE PROCEDURES FOR SHIPMENT OF CONTAINERS ON PAGE 22, AND THE LOAD ON PAGE 7 FOR GUIDANCE.
5. THE STRETCHED CONTAINER PALLET UNIT IS SHOWN IN THE LOAD ABOVE. IF LOADING THE SEALED CONTAINER PALLET UNIT FOLLOW THESE SAME PROCEDURES.
6. A TOTAL OF NINE WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (8 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF PALLETIZED UNIT, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "S", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND PALLET BASE AS SHOWN, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", AND "H", ON PAGE 2.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLET UNIT	4	7,884 LBS



ISOMETRIC VIEW

SPECIAL NOTES:

1. A TYPICAL LOAD OF FOUR PALLET UNITS IS SHOWN ON AN 11-TON M899A1 HEAVY EXPANDED MOBILITY AMMUNITION TRAILER (HEMAT) HAVING INSIDE DIMENSIONS OF 175' LONG BY 92" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN.
3. CENTER THE PALLET'S ACROSS THE VEHICLE WIDTH AND TIGHT AGAINST THE FORWARD END WALL.
4. IF DESIRED, ADDITIONAL CONTAINERS MAY BE POSITIONED ON TOP OF A PALLET UNIT AND/OR ON THE VEHICLE FLOOR. SEE THE ALTERNATIVE PROCEDURES FOR SHIPMENT OF CONTAINERS ON PAGE 22, AND THE LOAD ON PAGE 7 FOR GUIDANCE.
5. THE STRETCHED CONTAINER PALLET UNIT IS SHOWN IN THE LOAD ABOVE. IF LOADING THE SEALED CONTAINER PALLET UNIT FOLLOW THESE SAME PROCEDURES.
6. A TOTAL OF FIVE WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

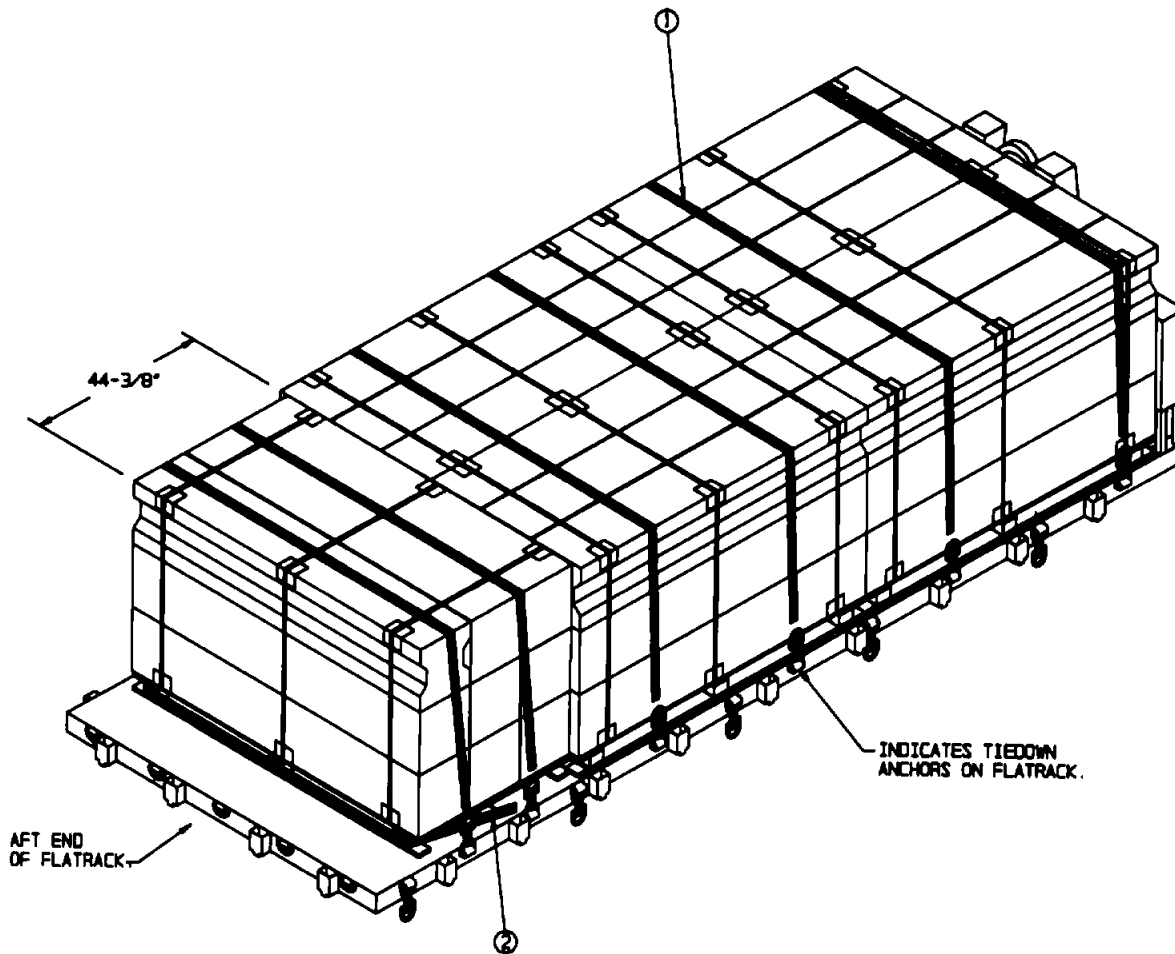
KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (4 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF PALLETIZED UNITS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "S", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND PALLET BASE AS SHOWN, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", AND "H", ON PAGE 2.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLET UNIT	4	7,884 LBS

FOUR PALLET UNITS ON AN 11-TON M899A1 HEMAT



ISOMETRIC VIEW

SPECIAL NOTES:

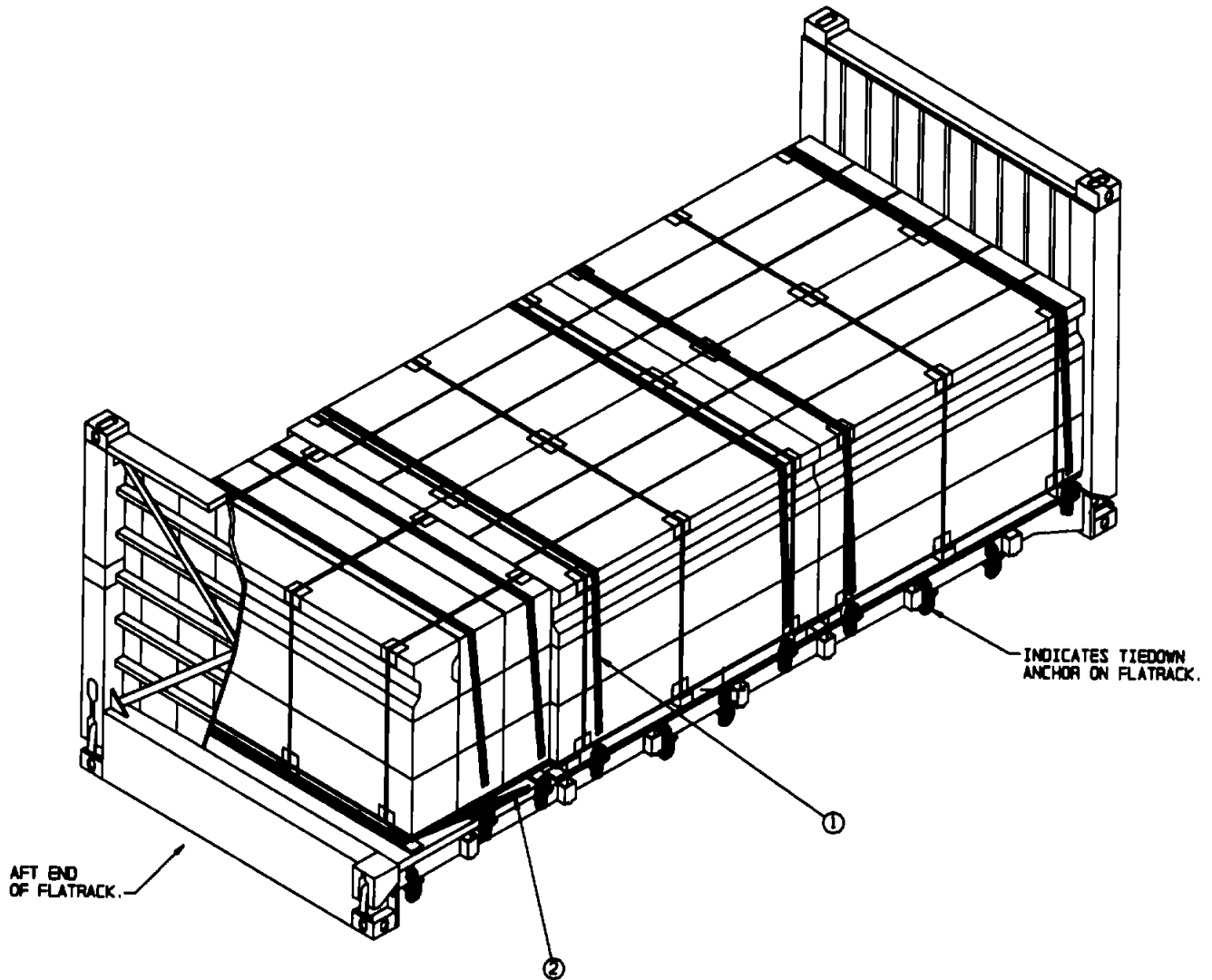
1. A TYPICAL LOAD OF FIVE PALLET UNITS IS SHOWN ON AN A-FRAME FLATRACK HAVING CARGO DECK DIMENSIONS OF 228" LONG BY 90-1/2" WIDE AND A MAXIMUM LOAD WEIGHT OF 33,000 POUNDS.
2. CENTER THE PALLETS ACROSS THE WIDTH OF THE FLATRACK AND TIGHT AGAINST THE A-FRAME.
3. IF DESIRED, ADDITIONAL CONTAINERS MAY BE POSITIONED ON TOP OF A PALLET UNIT AND/OR ON THE VEHICLE FLOOR. SEE THE ALTERNATIVE PROCEDURES FOR SHIPMENT OF CONTAINERS ON PAGE 22, AND THE LOAD ON PAGE 7 FOR GUIDANCE.
4. THE STRETCHED CONTAINER PALLET UNIT IS SHOWN IN THE LOAD ABOVE. IF LOADING THE SEALED CONTAINER PALLET UNIT FOLLOW THESE SAME PROCEDURES.
5. A TOTAL OF SEVEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

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 PALLETIZED UNITS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE FLATRACK. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "S", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND PALLET BASE AS SHOWN, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF THE FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", AND "H", ON PAGE 2.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLET UNIT	5	9,805 LBS



ISOMETRIC VIEW

SPECIAL NOTES:

1. A TYPICAL LOAD OF FIVE PALLET UNITS IS SHOWN ON AN M1 FLATRACK HAVING CARGO DECK DIMENSIONS OF 222" LONG BY 90-1/2" WIDE AND A MAXIMUM LOAD WEIGHT OF 29,200 POUNDS.
2. CENTER THE PALLET'S ACROSS THE WIDTH OF THE FLATRACK AND TIGHT AGAINST THE FORWARD END WALL.
3. IF DESIRED, ADDITIONAL CONTAINERS MAY BE POSITIONED ON TOP OF A PALLET UNIT. SEE THE ALTERNATIVE PROCEDURES FOR SHIPMENT OF CONTAINERS ON PAGE 22.
4. 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.
5. THE STRETCHED CONTAINER PALLET UNIT IS SHOWN IN THE LOAD ABOVE. IF LOADING THE SEALED CONTAINER PALLET UNIT FOLLOW THESE SAME PROCEDURES.
6. A TOTAL OF SEVEN WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

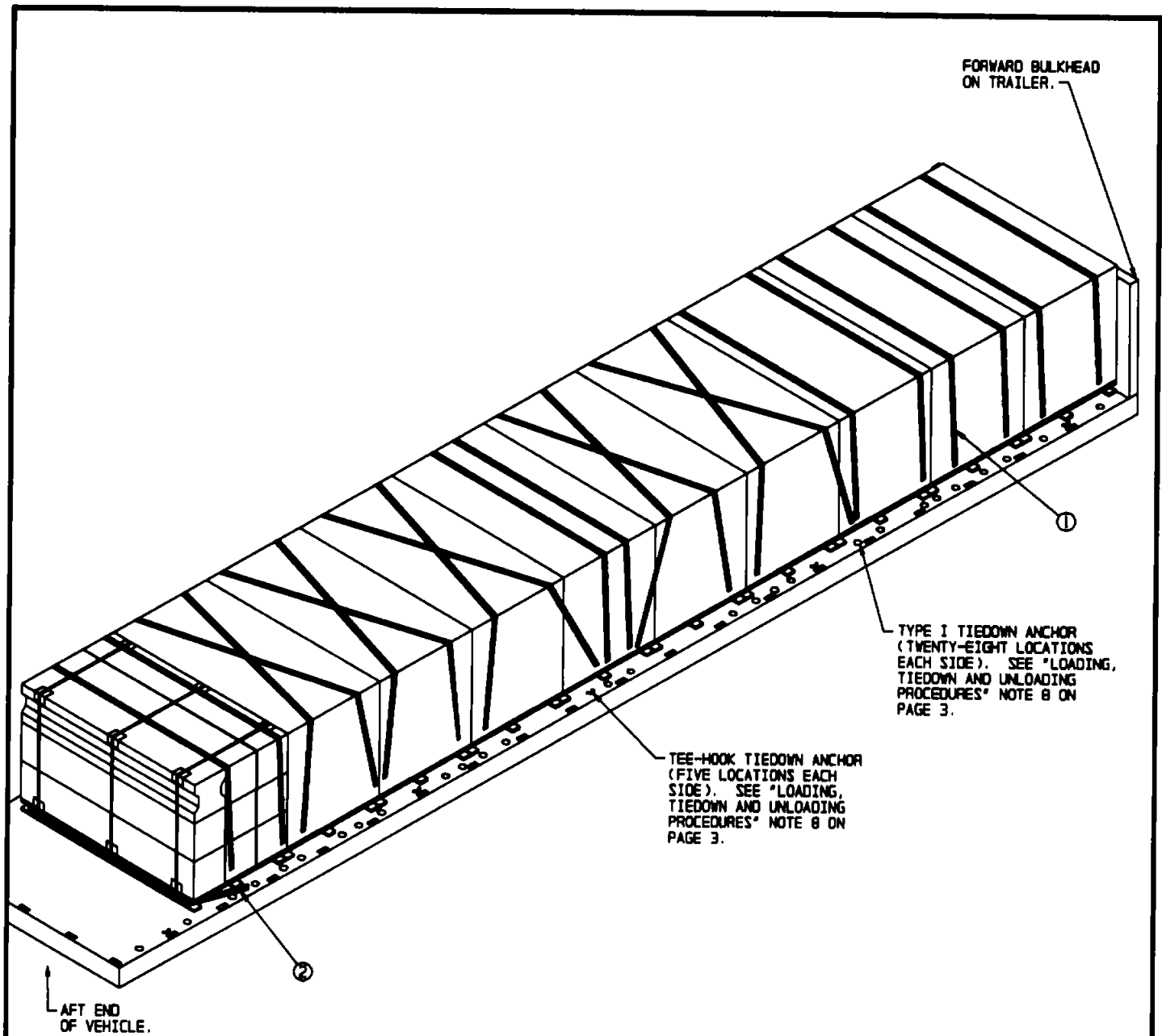
KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (6 REQ'D). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK OVER TOP OF PALLETIZED UNITS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE FLATRACK. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "S", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQ'D). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF FLATRACK, AROUND PALLET BASE AS SHOWN, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF THE FLATRACK. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", AND "H", ON PAGE 2.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
PALLET UNIT	5	9,805 LBS

FIVE PALLET UNITS ON A 14.6-TON M1 FLATRACK



FORWARD BULKHEAD ON TRAILER.

TYPE I TIEDOWN ANCHOR (TWENTY-EIGHT LOCATIONS EACH SIDE). SEE "LOADING, TIEDOWN AND UNLOADING PROCEDURES" NOTE 8 ON PAGE 3.

TEE-HOOK TIEDOWN ANCHOR (FIVE LOCATIONS EACH SIDE). SEE "LOADING, TIEDOWN AND UNLOADING PROCEDURES" NOTE 8 ON PAGE 3.

AFT END OF VEHICLE.

ISOMETRIC VIEW

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (20 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE OVER TOP OF PALLETIZED UNIT, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "S", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND PALLET BASE AS SHOWN, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", AND "H", ON PAGE 2.

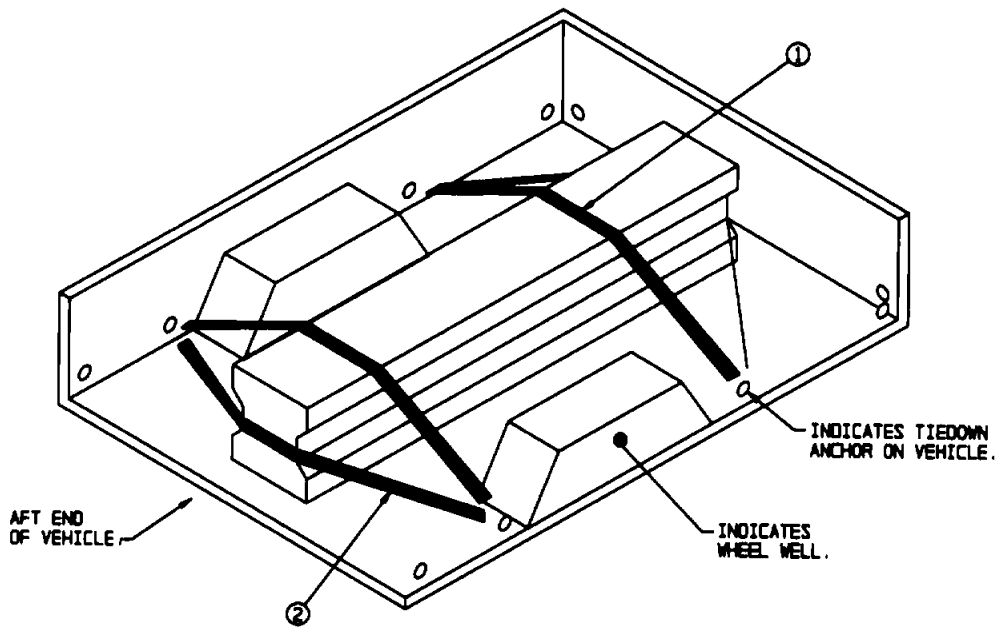
SPECIAL NOTES:

1. A TYPICAL LOAD OF TEN PALLET UNITS IS SHOWN ON A 34-TON M872 SEMITRAILER HAVING DIMENSIONS OF 489-1/2' LONG BY 98' WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN.
3. CENTER THE PALLETS ACROSS THE VEHICLE WIDTH AND TIGHT AGAINST THE FORWARD BULKHEAD.
4. IF DESIRED, ADDITIONAL CONTAINERS MAY BE POSITIONED ON TOP OF A PALLET UNIT AND/OR ON THE VEHICLE FLOOR. SEE THE ALTERNATIVE PROCEDURES FOR SHIPMENT OF CONTAINERS ON PAGE 22, AND THE LOAD ON PAGE 7 FOR GUIDANCE.
5. IF THE PALLET UNITS ARE LOADED SIDE-BY-SIDE WITH THE 44-3/8" DIMENSION ACROSS THE VEHICLE WIDTH, THE PALLET BASES MAY PARTIALLY COVER THE VEHICLE TIEDOWN ANCHORS.
6. THE STRETCHED CONTAINER PALLET UNIT IS SHOWN IN THE LOAD ON PAGE 12. IF LOADING THE SEALED CONTAINER PALLET UNIT FOLLOW THESE SAME PROCEDURES.
7. A TOTAL OF 21 WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
PALLET UNIT - - - - -	10 - - - - -	19,210 LBS

TEN PALLET UNITS ON A 34-TON M872 SEMITRAILER



ISOMETRIC VIEW

SPECIAL NOTES:

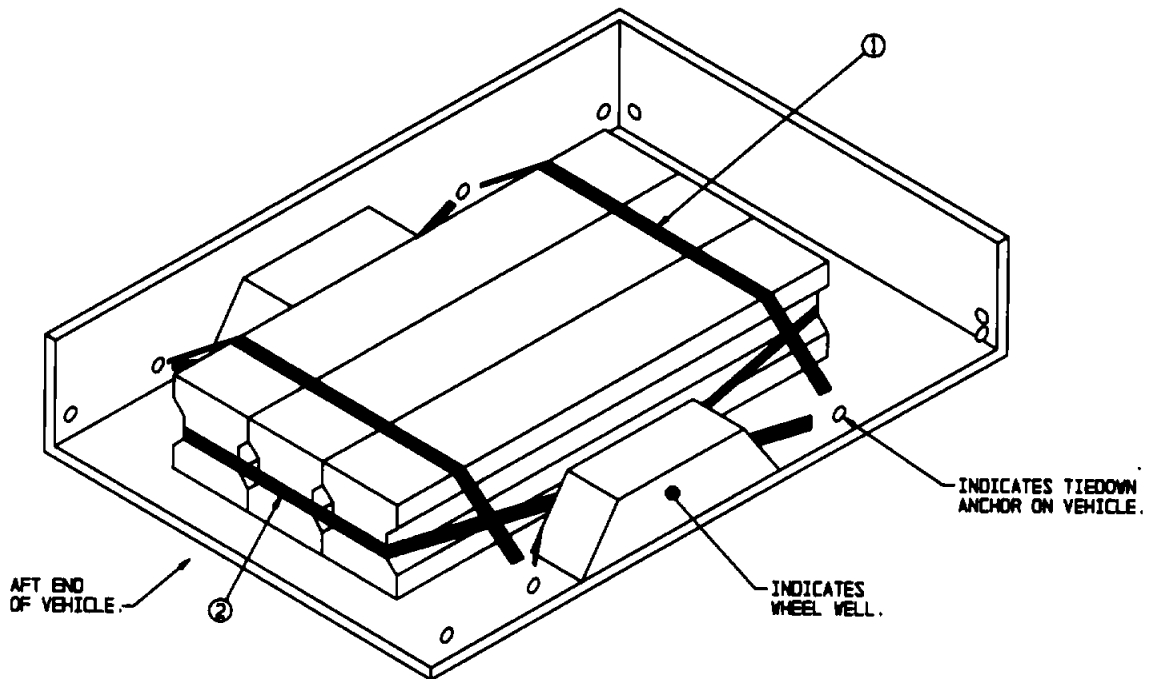
1. A TYPICAL LOAD OF ONE CONTAINER IS SHOWN IN A 3/4-TON M101 CARGO TRAILER HAVING INSIDE DIMENSIONS OF 88" LONG BY 66" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN.
3. CENTER THE CONTAINER ACROSS THE VEHICLE WIDTH AND AT A LOCATION THAT WILL ALLOW THE TWO WEB STRAPS MARKED ① TO BE POSITIONED OVER THE TOP.
4. IF LOADING A DIFFERENT QUANTITY OF CONTAINERS USE THESE SAME PROCEDURES AND/OR THE PROCEDURES SHOWN ON PAGES 15 AND 18.
5. THE STRETCHED CONTAINER IS SHOWN IN THE LOAD ABOVE. IF LOADING THE SEALED CONTAINER FOLLOW THESE SAME PROCEDURES.
6. A TOTAL OF FOUR WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF CONTAINER, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "S", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF CONTAINER, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", AND "H", ON PAGE 2.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
CONTAINER - - - - -	1 - - - - -	203 LBS



ISOMETRIC VIEW

SPECIAL NOTES:

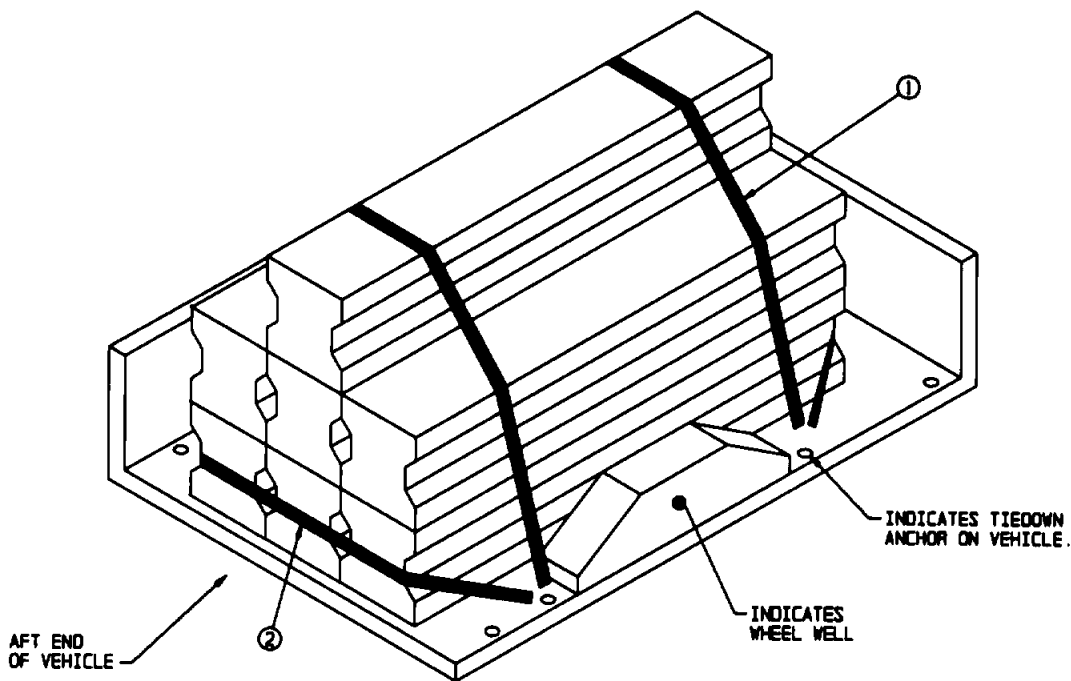
1. A TYPICAL LOAD OF THREE CONTAINERS IS SHOWN IN A 1-1/2-TON M105 CARGO TRAILER HAVING INSIDE DIMENSIONS 101" LONG BY 74" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN.
3. CENTER THE CONTAINERS ACROSS THE VEHICLE WIDTH AND AT A LOCATION THAT WILL ALLOW THE TWO WEB STRAPS MARKED ① TO BE POSITIONED OVER THE TOP.
4. IF LOADING A DIFFERENT QUANTITY OF CONTAINERS USE THESE SAME PROCEDURES AND/OR THE PROCEDURES SHOWN ON PAGES 14 AND 16.
5. THE STRETCHED CONTAINER IS SHOWN IN THE LOAD ABOVE. IF LOADING THE SEALED CONTAINER FOLLOW THESE SAME PROCEDURES.
6. A TOTAL OF FOUR WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "S", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF CONTAINERS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", AND "H", ON PAGE 2.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
CONTAINER	3	809 LBS



ISOMETRIC VIEW

SPECIAL NOTES:

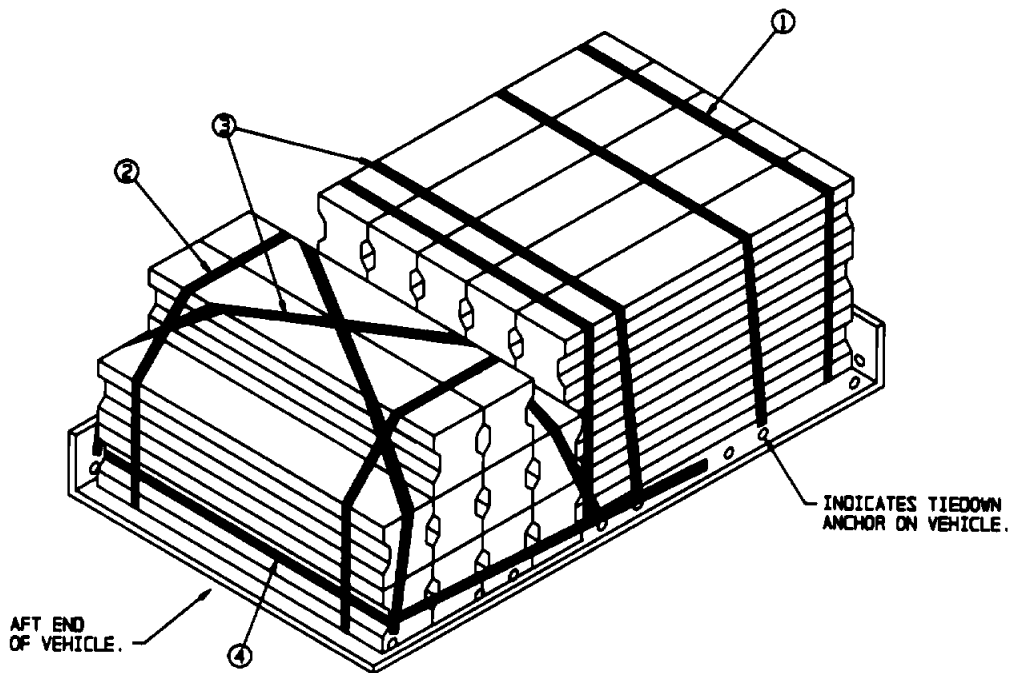
1. A TYPICAL LOAD OF SEVEN CONTAINERS IS SHOWN IN A 1-1/4-TON M100B COMMERCIAL UTILITY CARGO VEHICLE (CUCV) HAVING INSIDE DIMENSIONS OF 98" LONG BY 65" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN.
3. CENTER THE CONTAINERS ACROSS THE VEHICLE WIDTH AND AT A LOCATION THAT WILL ALLOW THE TWO WEB STRAPS MARKED ① TO BE POSITIONED OVER THE TOP.
4. IF LOADING A DIFFERENT QUANTITY OF CONTAINERS USE THESE SAME PROCEDURES AND/OR THE PROCEDURES SHOWN ON PAGES 14 AND 15.
5. THE STRETCHED CONTAINER IS SHOWN IN THE LOAD ABOVE. IF LOADING THE SEALED CONTAINER FOLLOW THESE SAME PROCEDURES.
6. A TOTAL OF FOUR WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "S", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF BOTTOM CONTAINERS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", AND "H", ON PAGE 2.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
CONTAINER- - - - -	7 - - - - -	1,421 LBS



ISOMETRIC VIEW

SPECIAL NOTES:

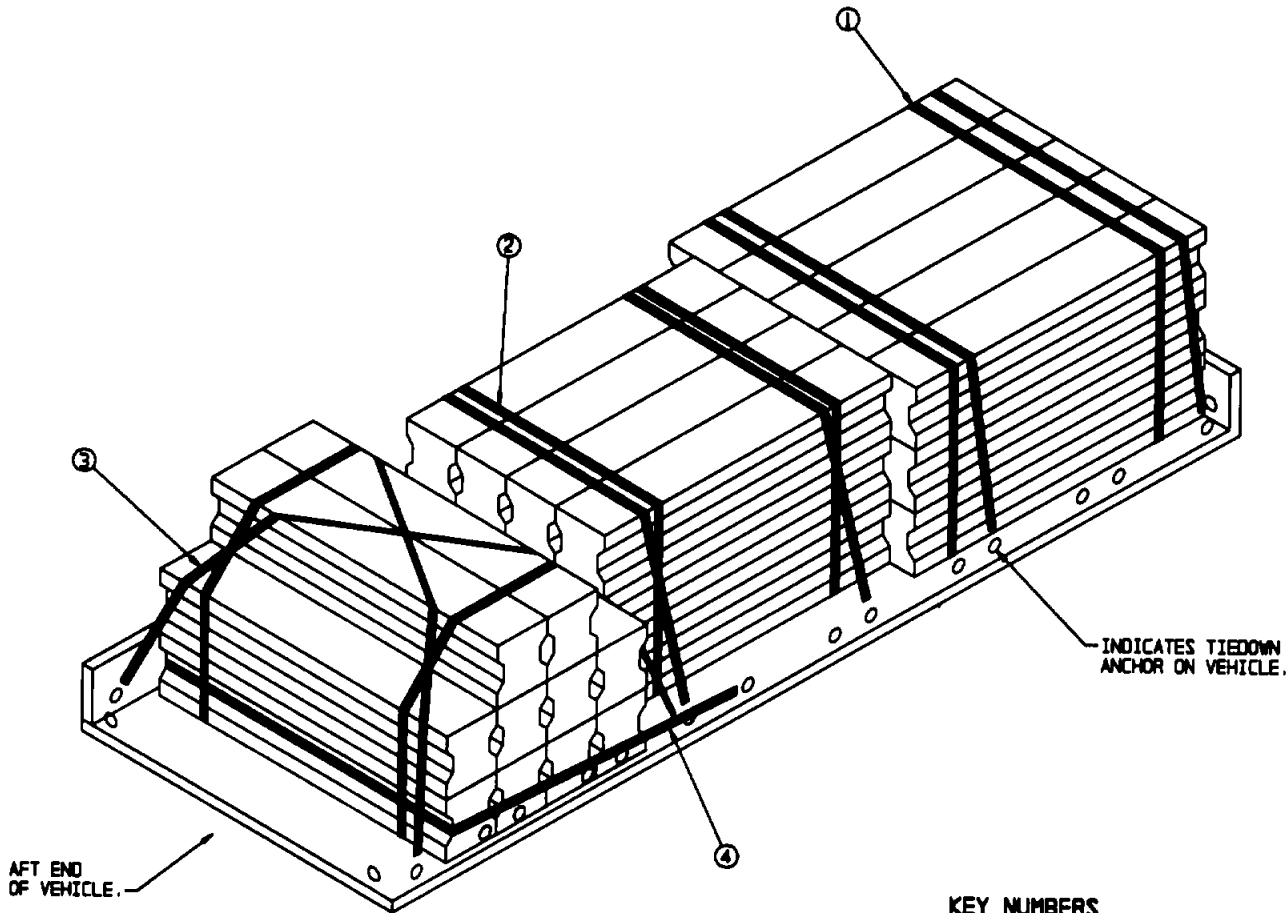
1. A TYPICAL LOAD OF 25 CONTAINERS IS SHOWN IN A 2-1/2-TON M35 CARGO TRUCK HAVING INSIDE DIMENSIONS OF 147" LONG BY 88" WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN.
3. CENTER THE CONTAINERS ACROSS THE VEHICLE WIDTH AND TIGHT AGAINST THE FORWARD END WALL.
4. THE LOAD SHOWN DEPICTS DIFFERENT QUANTITIES OF CONTAINERS PER EACH STACK. IF A STACK IS NOT POSITIONED AGAINST THE FORWARD END WALL AND/OR OTHER CONTAINERS A LONGITUDINAL LOAD RETAINING STRAP, MARKED ④ IN THE LOAD ABOVE, WILL BE REQUIRED AT EACH END OF THE STACK.
5. IF LOADING A DIFFERENT QUANTITY OF CONTAINERS USE THESE SAME PROCEDURES AND/OR THE PROCEDURES SHOWN ON PAGES 14 THROUGH 18, AND 18 THROUGH 21.
6. THE STRETCHED CONTAINER IS SHOWN IN THE LOAD ABOVE. IF LOADING THE SEALED CONTAINER FOLLOW THESE SAME PROCEDURES.
7. A TOTAL OF 11 WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD). HOOK TWO STRAPS TOGETHER AND ENCIRCLE ALL CONTAINERS AT TWO PLACES. PRE-POSITION THESE TWO STRAPS ON THE VEHICLE FLOOR AT THE LOCATION SELECTED PRIOR TO LOADING CONTAINERS. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "L", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO ENCIRCLE ALL CONTAINERS AT TWO PLACES. PRE-POSITION THESE TWO STRAPS ON THE VEHICLE FLOOR AT THE LOCATIONS SELECTED PRIOR TO LOADING CONTAINERS. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "L", ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (4 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "S", ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL THE STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF BOTTOM CONTAINERS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", AND "H", ON PAGE 2.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
CONTAINER	25	5,075 LBS



ISOMETRIC VIEW

KEY NUMBERS

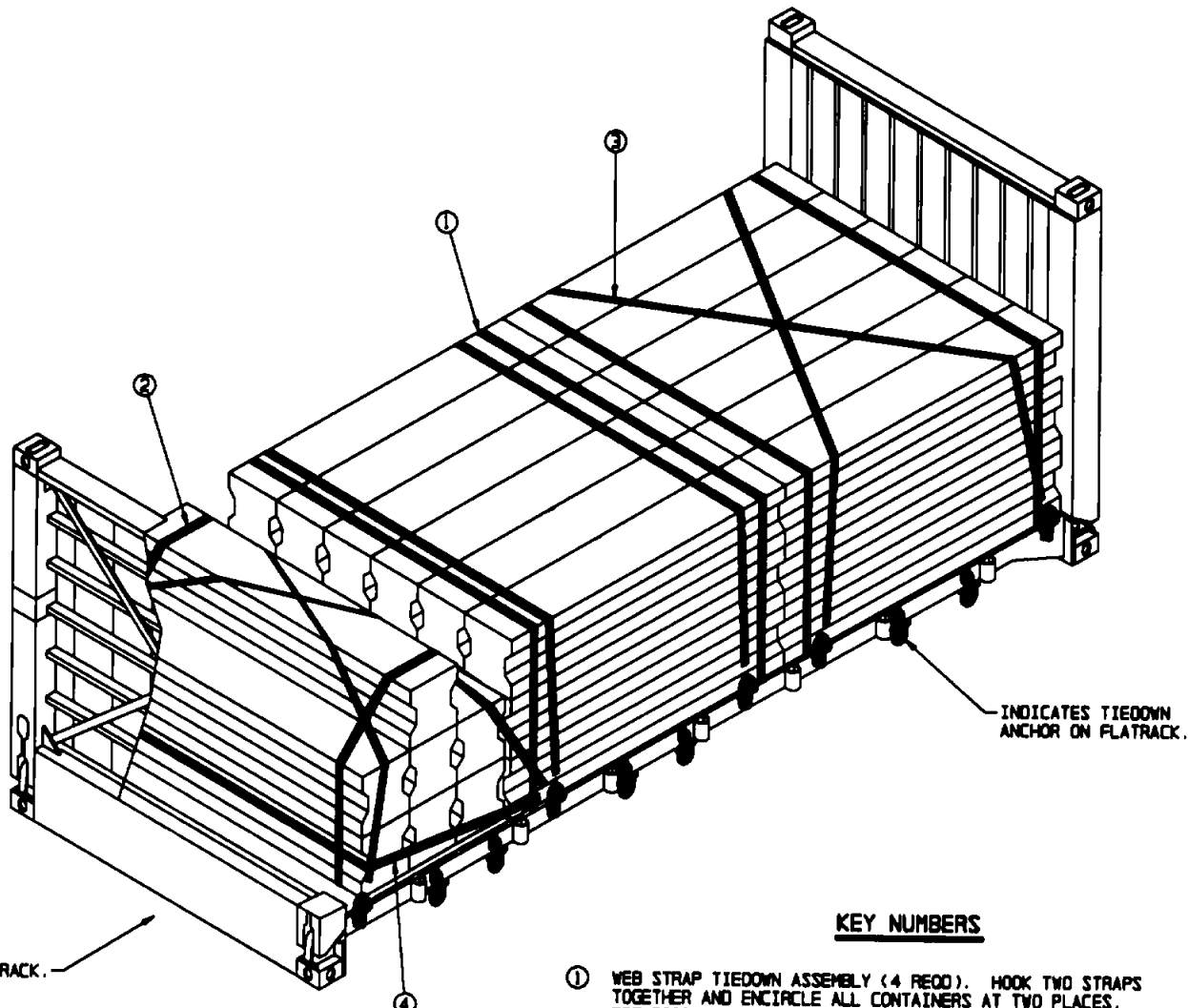
- ① WEB STRAP TIEDOWN ASSEMBLY (2 REED). HOOK TWO STRAPS TOGETHER AND ENCIRCLE ALL CONTAINERS AT TWO PLACES. PRE-POSITION THESE TWO STRAPS ON THE VEHICLE FLOOR AT THE LOCATION SELECTED PRIOR TO LOADING CONTAINERS. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "L", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (4 REED). INSTALL EACH STRAP TO ENCIRCLE ALL CONTAINERS AT TWO PLACES. PRE-POSITION THESE FOUR STRAPS ON THE VEHICLE FLOOR AT THE LOCATIONS SELECTED PRIOR TO LOADING CONTAINERS. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "L", ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (8 REED). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "S", ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (1 REED). INSTALL THE STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF BOTTOM CONTAINERS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", AND "H", ON PAGE 2.

SPECIAL NOTES:

- 1. A TYPICAL LOAD OF 37 CONTAINERS IS SHOWN IN A 5-TON M927A1 CARGO TRUCK HAVING INSIDE DIMENSIONS OF 244" LONG BY 88" WIDE.
- 2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN.
- 3. CENTER THE CONTAINERS ACROSS THE VEHICLE WIDTH AND TIGHT AGAINST THE FORWARD END WALL.
- 4. THE LOAD SHOWN DEPICTS DIFFERENT QUANTITIES OF CONTAINERS PER EACH STACK. IF A STACK IS NOT POSITIONED AGAINST THE FORWARD END WALL AND/OR OTHER CONTAINERS A LONGITUDINAL LOAD RETAINING STRAP, MARKED ④ IN THE LOAD ABOVE, WILL BE REQUIRED AT EACH END OF THE STACK.
- 5. IF LOADING A DIFFERENT QUANTITY OF CONTAINERS USE THESE SAME PROCEDURES AND/OR THE PROCEDURES SHOWN ON PAGES 14 THROUGH 17, AND 19 THROUGH 21.
- 6. THE STRETCHED CONTAINER IS SHOWN IN THE LOAD ABOVE. IF LOADING THE SEALED CONTAINER FOLLOW THESE SAME PROCEDURES.
- 7. A TOTAL OF 15 WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
CONTAINER	37	7,511 LBS



ISOMETRIC VIEW

SPECIAL NOTES:

1. A TYPICAL LOAD OF 43 CONTAINERS IS SHOWN ON AN MI FLATRACK HAVING CARGO DECK DIMENSIONS OF 222" LONG BY 90-1/2" WIDE AND A MAXIMUM LOAD WEIGHT OF 29,200 POUNDS.
2. CENTER THE CONTAINERS ACROSS THE FLATRACK WIDTH AND TIGHT AGAINST THE FORWARD END WALL.
3. THE LOAD SHOWN DEPICTS DIFFERENT QUANTITIES OF CONTAINERS PER STACKS. IF A STACK IS NOT POSITIONED AGAINST THE FORWARD END WALL AND/OR OTHER CONTAINERS A LONGITUDINAL LOAD RETAINING STRAP, MARKED (4) IN THE LOAD ABOVE, WILL BE REQUIRED AT EACH END OF THE STACK.
4. IF LOADING A DIFFERENT QUANTITY OF CONTAINERS USE THESE SAME PROCEDURES AND/OR THE PROCEDURES SHOWN ON PAGES 14 THROUGH 18, AND 20 AND 21.
5. 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.
6. THE STRETCHED CONTAINER IS SHOWN IN THE LOAD ABOVE. IF LOADING THE SEALED CONTAINER FOLLOW THESE SAME PROCEDURES.
7. A TOTAL OF 17 WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

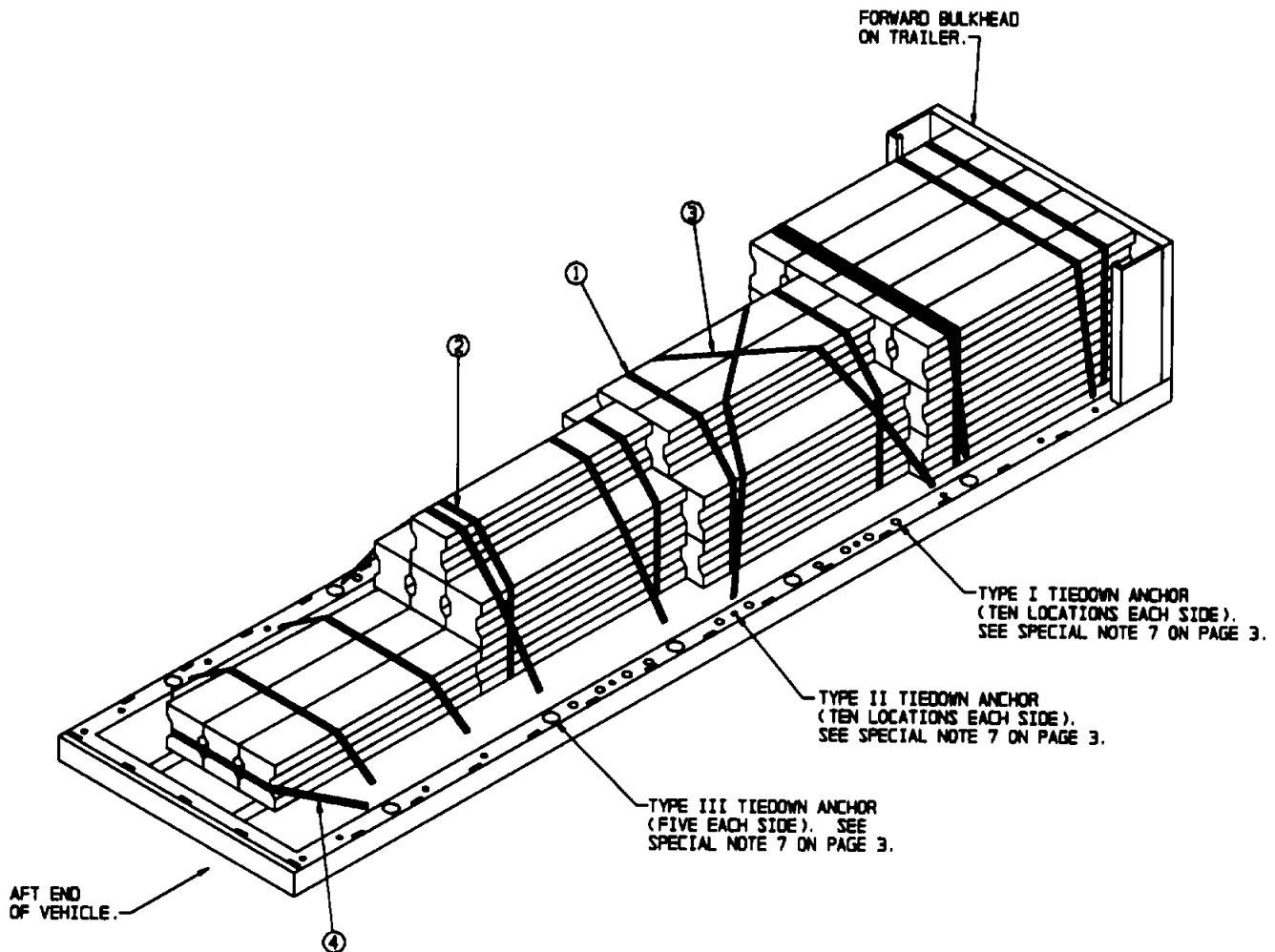
KEY NUMBERS

- ① WEB STRAP TIEDOWN ASSEMBLY (4 REQD). HOOK TWO STRAPS TOGETHER AND ENCIRCLE ALL CONTAINERS AT TWO PLACES. PRE-POSITION THESE FOUR STRAPS ON THE VEHICLE FLOOR AT THE LOCATION SELECTED PRIOR TO LOADING CONTAINERS. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "L", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO ENCIRCLE ALL CONTAINERS AT TWO PLACES. PRE-POSITION THESE TWO STRAPS ON THE VEHICLE FLOOR AT THE LOCATIONS SELECTED PRIOR TO LOADING CONTAINERS. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "L", ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (8 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "S", ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL THE STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF BOTTOM CONTAINERS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", AND "H", ON PAGE 2.

LOAD AS SHOWN

ITEM	QUANTITY	WEIGHT (APPROX)
CONTAINER-	43	8,720 LBS

43 CONTAINERS ON A 14.6-TON MI FLATRACK



ISOMETRIC VIEW

KEY NUMBERS

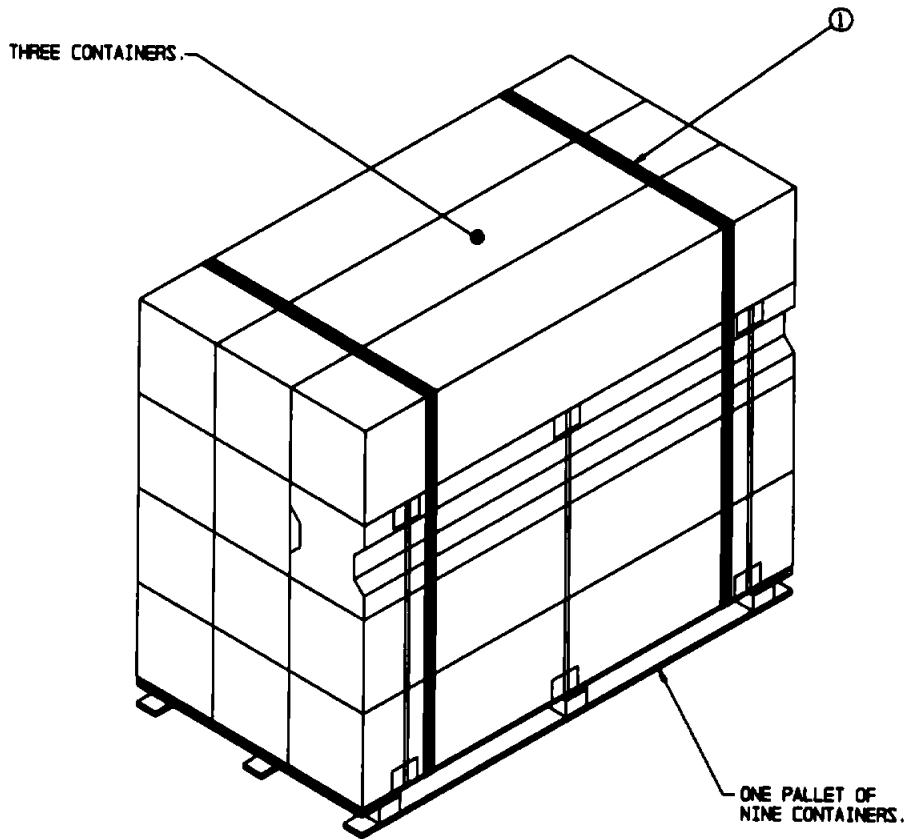
- ① WEB STRAP TIEDOWN ASSEMBLY (4 REQD). HOOK TWO STRAPS TOGETHER AND ENCIRCLE ALL CONTAINERS AT TWO PLACES. PRE-POSITION THESE FOUR STRAPS ON THE VEHICLE FLOOR, AT THE LOCATIONS SELECTED, PRIOR TO LOADING CONTAINERS. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "L", ON PAGE 2.
- ② WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO ENCIRCLE ALL CONTAINERS AT TWO PLACES. PRE-POSITION THESE TWO STRAPS ON THE VEHICLE FLOOR AT THE LOCATIONS SELECTED PRIOR TO LOADING CONTAINERS. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "L", ON PAGE 2.
- ③ WEB STRAP TIEDOWN ASSEMBLY (8 REQD). INSTALL EACH STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, OVER TOP OF CONTAINERS, TO A TIEDOWN ANCHOR ON THE OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP RATCHETS ON SAME SIDE OF THE LOAD. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", "H", AND "S", ON PAGE 2.
- ④ WEB STRAP TIEDOWN ASSEMBLY (1 REQD). INSTALL THE STRAP TO EXTEND FROM A TIEDOWN ANCHOR ON SIDE OF VEHICLE, AROUND END OF THE AFT CONTAINERS, TO A TIEDOWN ANCHOR ON OPPOSITE SIDE OF THE VEHICLE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. SEE GENERAL NOTES "G", AND "H", ON PAGE 2.

SPECIAL NOTES:

1. A TYPICAL LOAD OF 35 CONTAINERS IS SHOWN ON A 22-1/2 TON M871 SEMITRAILER HAVING DIMENSIONS OF 354' LONG BY 98' WIDE.
2. THE VEHICLE SHOWN WAS SELECTED AS TYPICAL ONLY AND VEHICLES OF OTHER DIMENSIONS, WHICH HAVE A SUFFICIENT QUANTITY OF TIEDOWN ANCHORS, LOCATED ON THE SIDE WALL, END WALL, OR FLOOR, MAY BE USED TO TRANSPORT THE LOAD SHOWN.
3. CENTER THE CONTAINERS ACROSS THE VEHICLE WIDTH AND TIGHT AGAINST THE FORWARD BULKHEAD.
4. THE LOAD SHOWN DEPICTS DIFFERENT QUANTITIES OF CONTAINERS PER EACH STACK. IF A STACK IS NOT POSITIONED AGAINST THE FORWARD BULKHEAD AND/OR OTHER CONTAINERS A LONGITUDINAL LOAD RETAINING STRAP, MARKED ④ IN THE LOAD ON PAGE 20, WILL BE REQUIRED AT EACH END OF THE STACK.
5. IF LOADING A DIFFERENT QUANTITY OF CONTAINERS USE THESE PROCEDURES AND/OR THE PROCEDURES SHOWN ON PAGES 14 THROUGH 19.
6. THE STRETCHED CONTAINER IS SHOWN IN THE LOAD ON PAGE 20. IF LOADING THE SEALED CONTAINER FOLLOW THESE SAME PROCEDURES.
7. A TOTAL OF 19 WEB STRAP TIEDOWN ASSEMBLIES ARE REQUIRED FOR THE LOAD SHOWN.

LOAD AS SHOWN

<u>ITEM</u>	<u>QUANTITY</u>	<u>WEIGHT (APPROX)</u>
CONTAINER - - - - -	35 - - - - -	7,105 LBS

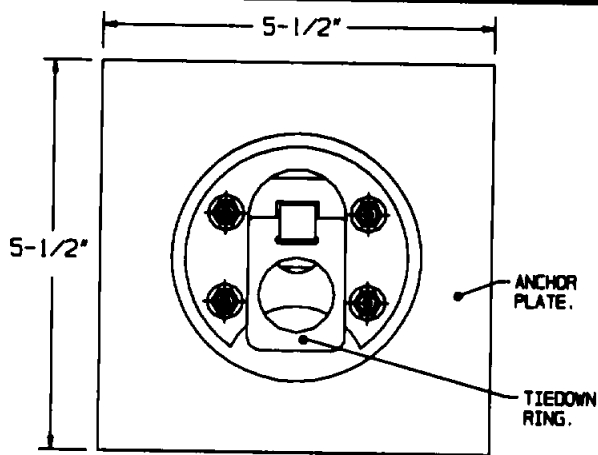


**SECUREMENT OF CONTAINERS
ON TOP OF A PALLET UNIT**

ONE THROUGH THREE CONTAINERS MAY
BE SECURED ON TOP OF A PALLET UNIT

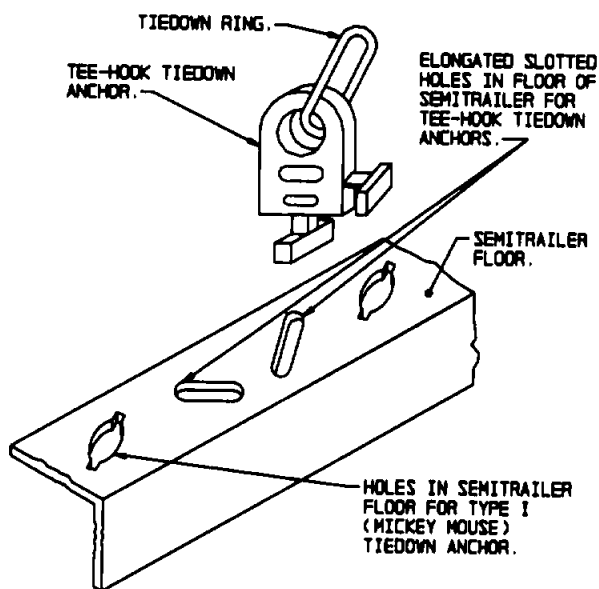
KEY NUMBER

- ① WEB STRAP TIEDOWN ASSEMBLY (2 REQD). INSTALL EACH STRAP TO ENCIRCLE THE PALLET UNIT AND ALL CONTAINERS POSITIONED ON TOP. THREAD STRAP UNDER THE TOP DECK BOARDS OF THE PALLET AT THE LOCATIONS SHOWN ABOVE. POSITION STRAP SCUFF SLEEVES AT SHARP EDGES. POSITION STRAP RATCHETS ON TOP OF THE LOAD. TAKE UP EXCESS SLACK IN STRAP AND THEN RATCHET TIGHT. **NOTE:** WHEN POSITIONING THIS UNIT IN A LOAD DO NOT POSITION THE LOAD HOLD-DOWN STRAPS OVER THE TOP OF THE ADDED CONTAINERS. THE LOAD HOLD-DOWN STRAPS MUST BE POSITIONED OVER THE TOP OF THE PALLET UNIT PRIOR TO POSITIONING THE CONTAINERS ON TOP. SEE GENERAL NOTES "G" AND "H" ON PAGE 2, AND THE LOAD SHOWN ON PAGE 8.



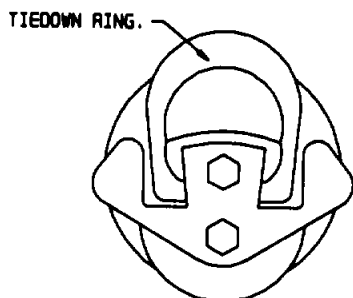
UNIVERSAL TIEDOWN ANCHOR (FRONT VIEW)

SEE SPECIAL NOTE 1.



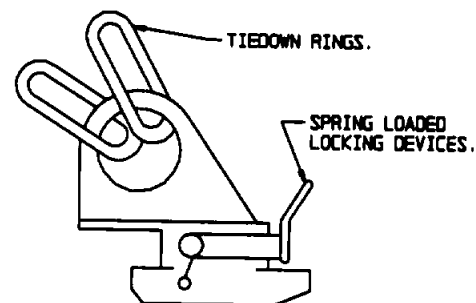
TEE-HOOK TIEDOWN ANCHOR (ISOMETRIC VIEW)

SEE SPECIAL NOTE 2.



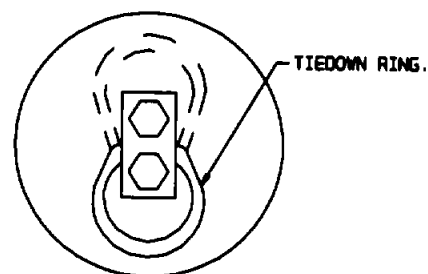
REMOVABLE TIEDOWN ANCHOR (TOP VIEW)

SEE SPECIAL NOTE 3.



REMOVABLE TIEDOWN ANCHOR (SIDE VIEW)

SEE SPECIAL NOTE 4.

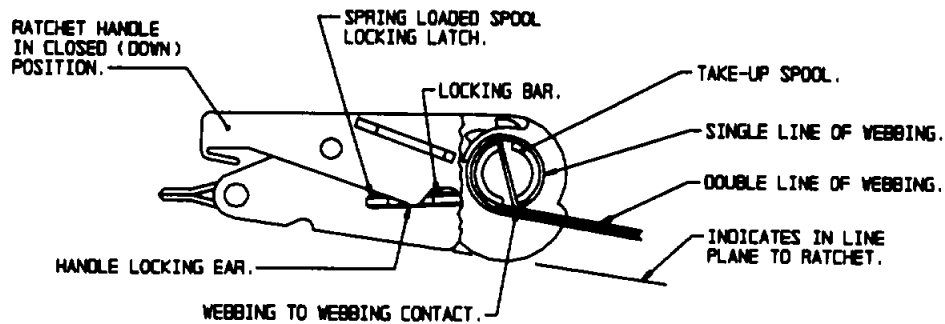


FIXED TIEDOWN ANCHOR (TOP VIEW)

SEE SPECIAL NOTE 5.

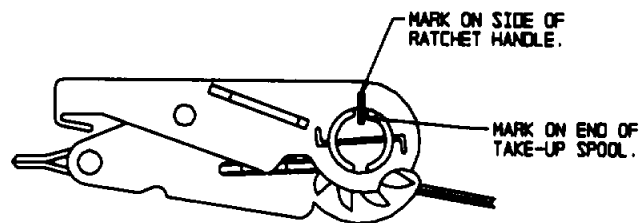
SPECIAL NOTES:

1. IF THE TACTICAL VEHICLES BEING USED ARE NOT EQUIPPED WITH THE 5,000 POUND UNIVERSAL TIEDOWN ANCHOR SHOWN AT LEFT, SEE TB 9-2300-280-30 FOR VEHICLE MODIFICATION PROCEDURES AND INSTALLATION OF THE TIEDOWN ANCHOR. WITH THE EXCEPTION OF THE HEAVY EXPANDED MOBILITY TACTICAL TRUCK (HEMTT), M877 AND/OR M885, WHICH HAS THE TIEDOWN ANCHORS INSTALLED IN THE FLOOR, THESE TIEDOWN ANCHORS ARE TO BE INSTALLED IN THE SIDEWALLS AND ENDWALLS OF CARGO TRUCKS AND CARGO TRAILERS. IF AN M127, 12-TON SEMITRAILER IS BEING USED, SEE INFORMATION IN TB 9-2300-280-30. THE M127 SEMITRAILER REQUIRES A DIFFERENT TYPE OF TIEDOWN ANCHOR.
2. THIS TIEDOWN ANCHOR IS RATED AT 5,000 POUNDS AND IS ONLY INSTALLED ON THE M872 SEMITRAILER. THERE ARE FIVE TIEDOWN ANCHOR LOCATIONS ON EACH SIDE OF THE M872 SEMITRAILER. THIS TIEDOWN ANCHOR IS POSITIONED BY INSERTING IT FROM THE TOP INTO ONE OF THE ELONGATED SLOTTED HOLES LOCATED IN THE SIDE RAILS OF THE SEMITRAILER. THIS TIEDOWN ANCHOR IS FURTHER IDENTIFIED AS NSN 2540-01-113-9285.
3. THIS TIEDOWN ANCHOR IS RATED AT 10,000 POUNDS AND IS INSTALLED ON THE M871 AND M872 SEMITRAILERS. IT IS COMMONLY REFERRED TO AS THE "MICKEY MOUSE" TIEDOWN ANCHOR. THERE ARE TEN LOCATIONS IN EACH SIDE RAIL OF THE M871 SEMITRAILER AND APPROXIMATELY TWENTY-EIGHT IN EACH SIDE RAIL OF THE M872 SEMITRAILER. FOR INSTALLATION OF THIS TIEDOWN ANCHOR, IT IS POSITIONED BY REACHING UNDER THE FLOOR OF THE SEMITRAILER, INSERTING IT UP THROUGH THE HOLE AND ROTATING IT INTO POSITION. THIS TIEDOWN ANCHOR IS FURTHER IDENTIFIED AS NSN 2540-01-112-1732.
4. THIS TIEDOWN ANCHOR IS RATED AT 10,000 POUNDS AND IS ONLY FOR USE ON THE M871 SEMITRAILER. IT IS COMMONLY REFERRED TO AS THE "BIG FOOT" TIEDOWN ANCHOR. THERE ARE TEN LOCATIONS IN EACH SIDE RAIL OF THE SEMITRAILER FOR INSTALLATION OF THIS TIEDOWN ANCHOR. IT HAS A SPRING/LOADED LOCKING DEVICE TO HOLD IT IN PLACE, IS INSERTED FROM THE TOP INTO A 1-3/4" DIAMETER HOLE, AND IT SWIVELS. THIS TIEDOWN IS FURTHER IDENTIFIED AS NSN 2540-01-117-3043.
5. THIS TIEDOWN ANCHOR IS RATED AT 10,000 POUNDS, IS NOT REMOVABLE AND IS ONLY INSTALLED ON THE M871 SEMITRAILER. THERE ARE FIVE IN EACH SIDE RAIL OF THE M871 SEMITRAILER AND THEY DO NOT SWIVEL.



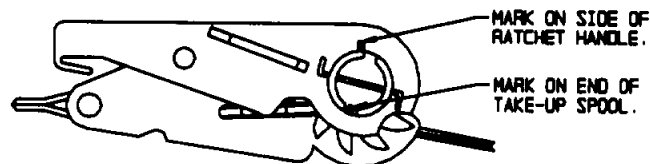
STEP 1

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.



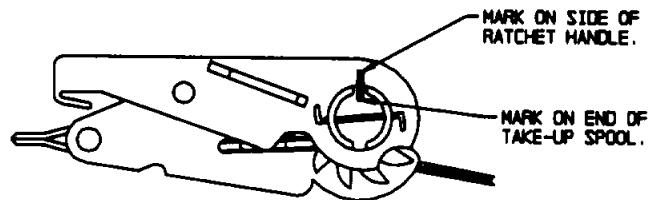
STEP 2

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.



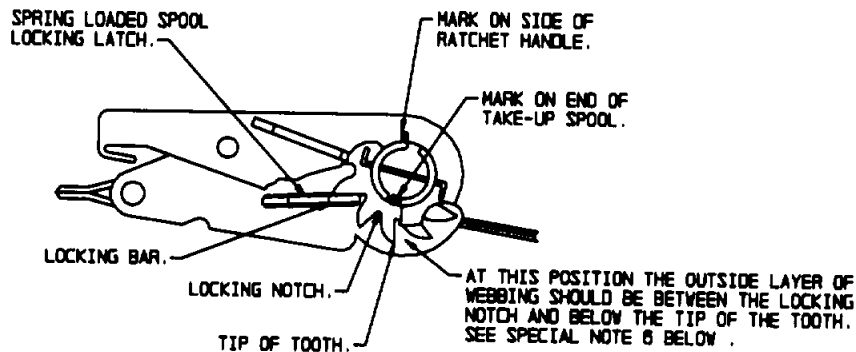
STEP 3

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 24 AND THE DETAIL AND NOTES ON THIS PAGE ARE TO AUGMENT THE GUIDANCE SET FORTH WITHIN GENERAL NOTE "G" 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 "G" 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 CONFIGURATION, AS SHOWN IN THE "STEP 1" DETAIL ON PAGE 24.
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 24. 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 24, 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 HAVE 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 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 24. 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 METHODS ON THE DRAWING ONLY PROVIDE SOME OF THE APPROVED ACCEPTABLE ONES.

