MLRS AND GMLRS

LOADING AND BRACING (CL & LCL) IN KOREAN GONDOLA CARS OF ROCKET POD/ CONTAINERS (RP/C) FOR MULTIPLE LAUNCH ROCKET SYSTEM AND GUIDED MULTIPLE LAUNCH ROCKET SYSTEM

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APPROVED, U.S. ARMY AVIATION AND MISSILE COMMAND CAUTION: VERIFY PRIOR TO USE AT WWW.DAC.ARMY.MIL THAT THIS IS

THE MOST CURRENT VERSION OF THIS DOCUMENT. THIS IS PAGE 1 OF 14. DO NOT SCALE **JUNE 1987** BASIC RALPH ARNOLD ENGINEER OR **TECHNICIAN MELVIN SIX REVISION NO. 2 JANUARY 2005** OVED BY ORDER OF COMMANDING GENERAL, TRANSPORTATION U.S. ARMY MATERIEL COMMAND **ENGINEERING** SEE THE REVISION LISTING ON PAGE 3 DIVISION CLASS DIVISION DRAWING VALIDATION ENGINEERING DIVISION 19 48 5541 GM5RS3 ENGINEERING DIRECTORATE U.S. ARMY DEFENSE AMMUNITION CENTER

U.S. ARMY MATERIEL COMMAND DRAWING

GENERAL NOTES

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCOR-DANCE WITH AR 740-1 AND AUGMENTS TM 743-200-1 (CHAPTER 5).
- B. THE OUTLOADING PROCEDURES SHOWN HEREIN ARE APPLICABLE FOR SHIPMENTS IN KOREAN GONDOLA CARS WHICH ARE 42'-9 (13,030MM) LONG BY 9'-5" (2,870MM) WIDE BY 52" (1,336MM) HIGH (INSIDE DIMENSIONS). THE PROCEDURES MAY BE ADJUSTED TO SUIT CARS OF OTHER SIZES.
- C. THE OUTLOADING PROCEDURES CONTAINED HEREIN ARE APPLI-CABLE TO THE MULTIPLE LAUNCH ROCKET SYSTEM (MLRS) AND GUIDED MULTIPLE LAUNCH SYSTEM (GMLRS) ROCKET/POD CON-TAINER (RP/C). SUBSEQUENT REFERENCE TO CONTAINER HEREIN MEANS THE RP/C WITH ROCKET COMPONENTS.
- D. FOR DETAILS OF THE ROCKET POD/CONTAINER, SEE US ARMY MIS-SILE COMMAND DRAWING NO. 13027900 AND DETAILS ON PAGE 3.
- E. THE ROCKET IS AN EXPLOSIVE ITEM. THE OUTLOADING PROCE-DURES SPECIFIED HEREIN CAN ALSO BE UTILIZED FOR THE SHIP-MENT OF THE CONTAINERS WHEN THEY ARE LOADED WITH AN ITEM WHICH IS IDENTIFIED DIFFERENTLY BY NOMENCLATURE THAN THE ITEM DESIGNATED WITHIN THE DRAWING TITLE.
- F. THE SELECTION OF RAILCARS FOR THE TRANSPORT OF THE DES-IGNATED ITEM IS THE RESPONSIBILITY OF THE ORIGINATING CAR-RIER AND THE SHIPPER. ONLY CARS WHICH HAVE "SOUND" FLOORS AND ARE IN OTHERWISE PROPER CONDITION, IN ACCOR-DANCE WITH THE REQUIREMENTS OF THE APPLICABLE REGULA-TORY DOCUMENT, WILL BE SELECTED.
- G. THE NUMBER OF CONTAINERS MAY BE ADJUSTED TO FIT THE SIZE OF THE GONDOLA CAR BEING LOADED OR THE QUANTITY TO BE SHIPPED: HOWEVER. THE APPROVED METHODS CONTAINED HEREIN MUST BE FOLLOWED AS CLOSELY AS POSSIBLE FOR BLOCKING, BRACING, AND STAYING OF THE CONTAINERS. NO TICE: A SHIPMENT WILL BE POSITIONED IN THE RAILCAR IN COM-PLIANCE WITH WEIGHT DISTRIBUTION REQUIREMENTS.
- H. OTHER TYPES OF LADING ITEMS MAY BE LOADED IN A CAR WHICH IS PARTIALLY LOADED WITH THE DESIGNATED ITEMS, PROVIDING THE TOTAL LOAD IS COMPATIBLE, EXISTING DIRECTIVES ARE NOT VIOLATED. AND THE OTHER LADING ITEMS ARE BLOCKED AND BRACED TO EQUAL THE BLOCKING AND BRACING CRITERIA SPECI-FIED HEREIN.
- **DUNNAGE LUMBER SPECIFIED THROUGHOUT THIS PROCEDURAL** DRAWING IS OF A NOMINAL SIZE, UNLESS OTHERWISE SPECIFIED. FOR EXAMPLE, 1" X 6" MATERIAL IS ACTUALLY 3/4" THICK BY 5-1/2" WIDE AND 2" X 4" MATERIAL IS ACTUALLY 1-1/2" THICK BY 3-1/2"
- K. NOTICE: A STAGGERED NAILING PATTERN WILL BE USED WHEN-EVER POSSIBLE WHEN NAILS ARE DRIVEN INTO JOINTS OF DUN-NAGE ASSEMBLIES. ALSO, A STAGGERED NAILING PATTERN WILL BE USED WHEN LAMINATING DUNNAGE. THE NAILING PATTERN FOR AN UPPER PIECE OF LAMINATED DUNNAGE WILL BE AD-JUSTED AS REQUIRED SO THAT A NAIL FOR THAT PIECE WILL NOT BE DRIVEN THROUGH INTO OR RIGHT BESIDE A NAIL IN A LOWER PIECE.

(CONTINUED AT RIGHT)

(GENERAL NOTES CONTINUED)

- L. WHEN STEEL STRAPPING IS SEALED IN AN END-OVER-END LAP JOINT, A MINIMUM OF ONE SEAL WITH TWO PAIR OF NOTCHES WILL BE USED TO SEAL THE JOINT WHEN A NOTCH-TYPE SEALER IS BEING USED. A MINIMUM OF TWO SEALS, BUTTED TOGETHER, WITH TWO PAIR OF CRIMPS PER SEAL WILL BE USED TO SEAL THE JOINT WHEN A CRIMP-TYPE SEALER IS USED. REFER TO THE "STRAP JOINT A" AND "STRAP JOINT B" DETAILS ON PAGE 13
- M. PORTIONS OF THE GONDOLA CARS DEPICTED WITHIN THIS PROCE-DURAL DRAWING, SUCH AS SIDEWALLS AND ENDWALLS HAVE NOT BEEN SHOWN IN THE LOAD VIEWS FOR CLARITY PURPOSES.
- N. THE PROCEDURES DEPICTED WITHIN THIS DRAWING ARE BASED ON THE USE OF DIMENSIONAL SIZED LUMBER. IN MOST CASES, THE METRIC EQUIVALENT IS GIVEN IN PARENTHESIS FOLLOWING THE DIMENSION. HOWEVER, WHERE THE METRIC EQUIVALENT IS NOT SHOWN, IT MAY BE COMPUTED ON THE BASIS OF ONE INCH EQUALS 25.4MM AND ONE POUND EQUALS 0.454 KG. METRIC EQUIVALENTS FOR TORQUE ARE BASED ON ONE FOOT-POUND **EQUALS 0.7376 NEWTON-METERS.**
- O. FOR ADDITIONAL GUIDANCE, ATTENTION IS DIRECTED TO THE "SPECIAL NOTES" SECTIONS WHICH ARE IMMEDIATELY ADJACENT TO THE DEPICTED OUTLOADING METHODS. ATTENTION IS ALSO DIRECTED TO THE "SPECIAL HANDLING GUIDANCE" ON PAGE 3 AND TO THE "PREPARATION OF ROCKET POD/CONTAINER FOR SHIPMENT DETAILS ON PAGE 9.

REVISIONS

REVISION NO. 1, DATED NOVEMBER 1997, CONSISTS OF:

ADDING THE MLRS POD STABILIZING FRAME.

REVISION NO. 2, DATED JANUARY 2005, CONSISTS OF:

- 1. ADDING GMLRS TO THE DRAWING.
- 2 ADDING GROSS WEIGHT TABLE

MATERIAL SPECIFICATIONS

LUMBER - - - - - : SEE TM 743-200-1 (DUNNAGE LUMBER) AND VOLUNTARY PRODUCT STANDARD PS 20.

ASTM F1667; COMMON STEEL NAIL (NLCMS NAILS ----:

OR NLCMMS).

ASTM D3953; FLAT STRAPPING, TYPE 1, HEAVY DUTY, FINISH A, B (GRADE 2), OR C.

ASTM D3953; CLASS H, FINISH A, B (GRADE 2), OR C, DOUBLE NOTCH TYPE, STYLE I, II, OR IV. SEAL, STRAP - - - :

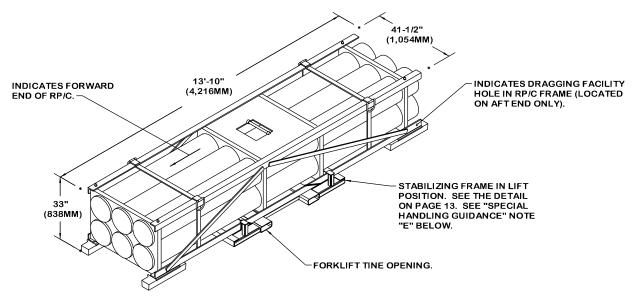
ASTM A853; ANNEALED AT FINISH, BLACK WIRE, CARBON STEEL - : OXIDE FINISH, 0800" DIA, GRADE 1006

OR BETTER.

STAPLE, STRAP - - -: COMMERCIAL GRADE.

STRAPPING, STEEL - -:

GROSS WEIGHT OF MULTIPLE LAUNCH ROCKET SYSTEM AND GUIDED MULTIPLE LAUNCH ROCKET SYSTEM				
NSN	DODIC	DESCRIPTION	WEIGHT (LBS)	WEIGHT (KGS)
1340-01-122-3506	н104	MLRS M26	5, 094	2, 311
1340-01-149-0918	н108	PRACTICE M28	5, 094	2, 311
1340-01-370-9666	н185	REDUCED RANGE PRACTICE ROCKET M28A1	5, 090	2, 309
1340-01-484-9001	н185	REDUCED RANGE PRACTICE ROCKET M28A1	5, 020	2, 278
1340-01-450-5876	н186	EXTENDED RANGE M26A2	4, 990	2, 264
1340-01-490-9695	HA22	GMLRS XM30	5, 020	2, 278
1340-01-517-4757		GMLRS UNITARY	5, 093	2, 310



ROCKET POD/CONTAINER

(SPECIAL HANDLING GUIDANCE CONTINUED)

- B. IF THE CONTAINERS ARE BEING HANDLED INDIVIDUALLY FOR THE 2-HIGH LOAD ON PAGE 4, A BOTTOM LAYER CONTAINER MUST BE PLACED IN THE FINAL LOADING POSITION. A TOP LAYER CONTAINER IS THEN PLACED DIRECTLY ON TOP OF THE BOTTOM LAYER CONTAINER. THE UPPER CONTAINER SHOULD BE PLACED AS CLOSELY AS POSSIBLE IN VERTICAL ALIGNMENT WITH THE LOWER CONTAINER. THE TWO CONTAINERS SHALL THEN BE UNITIZED USING TWO 1-1/4" X.035" OR .031" (32MM X.889MM OR .787MM) STEEL STRAPS PLACED AS SHOWN FOR THE DUNNAGE STRAP IN FIGURE 2 ON PAGE 9.
- C. IF A CONTAINER STACK IS BEING HANDLED AND POSITIONED INTO THE CAR AT ONE TIME, THE STACK MUST BE UNITIZED AS DESCRIBED IN 2.B ABOVE PRIOR TO ITS MOVEMENT.
- D. WHEN A CONTAINER STACK IS BEING UNITIZED, CARE MUST BE EXERCISED WHEN TIGHTENING THE STRAPS TO ENSURE THAT THE ALUMINUM FRAME MEMBERS OF THE CONTAINERS ARE NOT "PULLED IN" OR DEFORMED.
- E. IF HANDLING PRIOR TO LOADING OPERATIONS IS ACCOMPLISHED WITH A FORKLIFT TRUCK, THE TINES OF THE FORKLIFT ARE INSERTED INTO THE MLRS POD STABILIZING FRAME SHOWN IN THE DETAIL ON PAGE 13. THE FORKLIFT CARRIAGE IS TO BE CENTERED ON THE CENTER OF BALANCE MARK ON THE MLRS POD. NOTE: 1/4" SAFETY CHAINS ARE NOT SHOWN BUT WILL BE WELDED TO THE STABILIZING FRAME AT THE MOST DIRECT LOCATION FOR ATTACHMENT TO THE FORKLIFT CARRIAGE BY SECURE HOOKING.
- F. SLINGING OF A CONTAINER OR A CONTAINER STACK WILL BE ACCOMPLISHED IN ACCORDANCE WITH APPROVED PROCEDURES.
- G. THE DUNNAGE ASSEMBLIES AT THE ENDS OF THE GONDOLA CAR MUST BE POSITIONED PRIOR TO THE LOADING OF THE ADJACENT CONTAINERS IN THE GONDOLA. FOR THE 2-LAYER LOAD ON PAGE 4, ONCE THE FIRST STACK OF CONTAINERS IS IN POSITION, THE SECOND STACK CAN BE POSITIONED SUBSEQUENT TO THE INSTALLATION OF THE ANTI-CHAFING ASSEMBLY.

SPECIAL HANDLING GUIDANCE

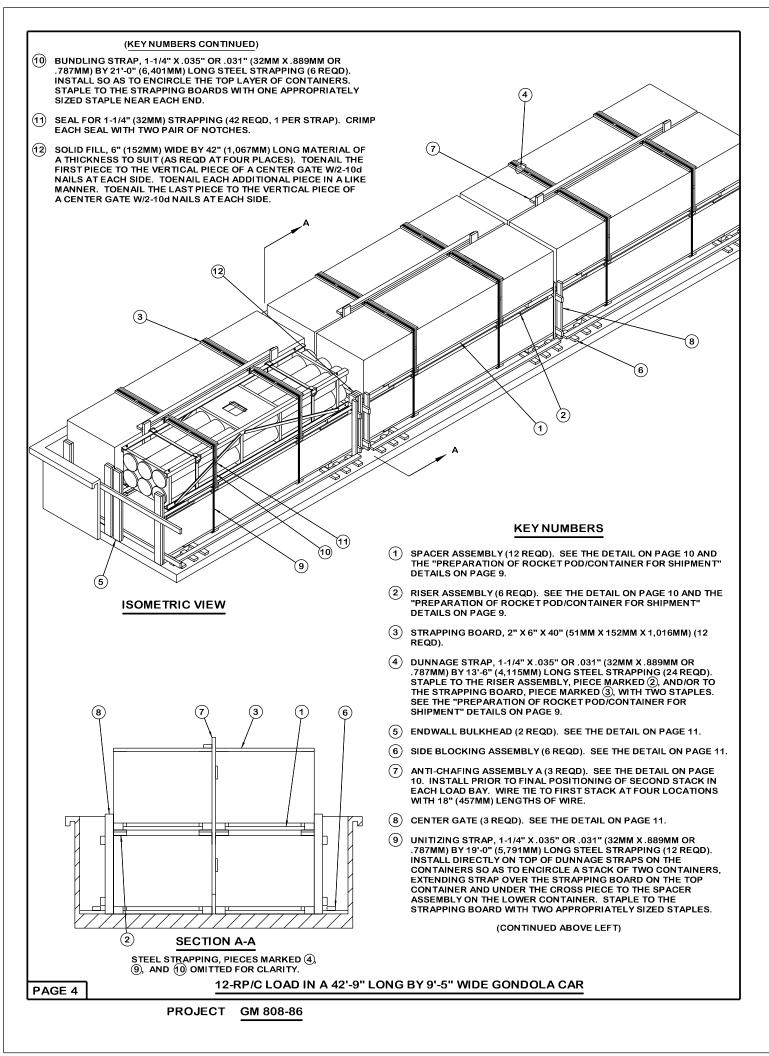
- 1. CONTAINER PREPARATION PRIOR TO STACKING FOR OUTLOADING.
 - A. EVERY CONTAINER TO BE SHIPPED IN THE TOP LAYER MUST FIRST BE PREPARED BY STRAPPING TWO STRAPPING BOARDS AND A SPACER ASSEMBLY TO IT AS DEPICTED IN FIGURE 1 ON PAGE 9.
 - B. EVERY CONTAINER TO BE SHIPPED IN THE BOTTOM LAYER MUST FIRST BE PREPARED BY STRAPPING A RISER ASSEMBLY AND A SPACER ASSEMBLY TO IT AS DEPICTED IN FIGURE 2 ON PAGE 9.
 - C. TO AID IN THE INSTALLATION OF THE SPACER ASSEMBLY TO THE CONTAINER, THE CONTAINER SHOULD BE SUPPORTED BY TWO 4" X 4" PIECES POSITIONED LATERALLY UNDER THE SKIDS SLIGHTLY OUTWARD FROM THE MAIN CONTAINER FRAME ENDS.
- 2. CONTAINER STACKING FOR OUTLOADING PURPOSES AND CONTAINER OR CONTAINER STACK HANDLING.

NOTES: (1) MATERIALS HANDLING EQUIPMENT (MHE) IS INTENDED TO MEAN EQUIPMENT, SUCH AS FORKLIFT TRUCKS, CRANES, HAND TRUCKS, DOLLIES, ROLLER ASSEMBLIES, SLINGS, AND SPREADER BARS, THAT CAN BE USED TO HANDLE THE DEPICTED CONTAINERS.

- (2) PRECAUTIONARY HANDLING TECHNIQUES NORMALLY EMPLOYED OR AS SPECIFIED FOR THE TYPE OF COMMODITY INVOLVED WILL BE OBSERVED.
- A. IF AVAILABLE MHE DOES NOT HAVE AN ALLOWABLE CAPACITY GREAT ENOUGH TO CARRY A STACK OF TWO CONTAINERS (APPROXIMATELY 10,200 POUNDS) IN ONE LIFT, THEN THE CONTAINERS MUST BE HANDED INDIVIDUALLY. ONLY APPROVED AND APPROPRIATELY SIZED MHE WILL BE USED FOR THE HANDLING OF THE DEPICTED CONTAINERS.

(CONTINUED AT LEFT)

CONTAINER DETAIL



SPECIAL NOTE:

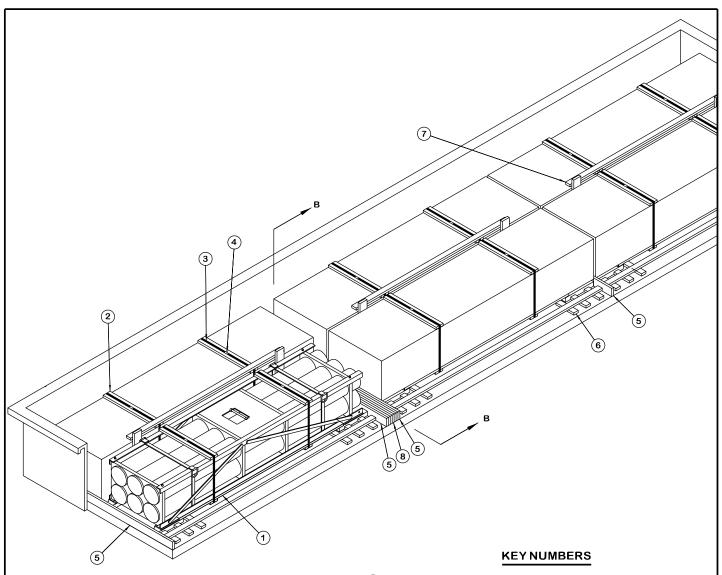
A 12-UNIT LOAD IS SHOWN IN A KOREAN GONDOLA. IF IT IS DESIRED TO SHIP 11 ROCKET POD/CONTAINERS IT WILL BE NECESSARY TO INSTALL A FILLER ASSEMBLY IN THE PLACE OF AN OMITTED CONTAINER. THE CONTAINER WILL BE OMITTED FROM THE CENTER LOAD BAY. SEE THE "FILLER ASSEMBLY A" DETAIL AND THE "INSTALLATION OF FILLER ASSEMBLY" DETAIL ON PAGE 8. NOTE THAT THE FILLER ASSEMBLY MUST BE ASSEMBLED TO THE ROCKET POD/CONTAINERS PRIOR TO LOADING BY ADDING FILLER ASSEMBLIES TO BOTH CENTER AREA CONTAINERS.

BILL OF MATERIAL			
LUMBER	LINEAR FEET	BOARD FEET	
1" X 6" (25MM X 152MM) 2" X 4" (51MM X 102MM) 2" X 6" (51MM X 152MM)	264 (80, 467mm)	130 176 652	
NAILS	NO. REQD	POUNDS	
6d (2") (51MM) 10d (3") (76MM) 16d (3-1/2") (89MM)	300 526 36	8-1/4 1	
STEEL STRAPPING, 1-1/4" 678' REQD 97 LBS SEAL FOR 1-1/4" STRAPPING 42 REQD 2 LBS WIRE 18' REQD NIL			

LOAD AS SHOWN

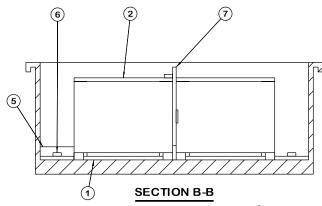
ITEM	QUANTITY	WEIGHT (APPROX)	
CONTAINER DUNNAGE	12	61, 128 LBS (27, 72) 2, 027 LBS (92)	' KG)) KG)
TOTAL	WEIGHT	63, 155 LBS (28, 64)	' KG) (APPROX)

12-RP/C LOAD IN A 42'-9" LONG BY 9'-5" WIDE GONDOLA CAR



ISOMETRIC VIEW

- (1) SPACER ASSEMBLY (6 REQD). SEE THE DETAIL ON PAGE 10 AND THE "PREPARATION OF ROCKET POD/CONTAINER FOR SHIPMENT" DETAILS ON PAGE 9.
- (2) STRAPPING BOARD, 2" X 6" X 40" (51MM X 152MM X 1,016MM) (12 REQD).
- (3) DUNNAGE STRAP, 1-1/4" X .035" OR .031" (32MM X .889MM OR .787MM) BY 13'-6" (4,115MM) LONG STEEL STRAPPING (12 REQD). STAPLE TO THE STRAPPING BOARD, PIECE MARKED (2), WITH TWO STAPLES. SEE THE "PREPARATION OF ROCKET POD/CONTAINER FOR SHIPMENT" DETAILS ON PAGE 9.
- (4) SEAL FOR 1-1/4" (32MM) STRAPPING (12 REQD, 1 PER STRAP). CRIMP EACH SEAL WITH TWO PAIR OF NOTCHES.
- (5) HEADER, 2" X 6" (51MM X 152MM) BY CAR WIDTH MINUS 1/2" (13MM) (5 REQD). POSITION ON EDGE AGAINST CAR ENDWALL AND/OR BETWEEN CONTAINERS AS SHOWN.
- (6) SIDE BLOCKING ASSEMBLY (6 REQD). SEE THE DETAIL ON PAGE 11.
- (7) ANTI-CHAFING ASSEMBLY (3 REQD). SEE THE "ANTI-CHAFING ASSEMBLY B" DETAIL ON PAGE 12. INSTALL PRIOR TO FINAL POSITIONING OF SECOND CONTAINER IN EACH LOAD BAY. WIRE TIE TO FIRST CONTAINER AT TWO LOCATIONS WITH 18" (457MM) LONG WIRE.
- (8) SOLID FILL, 2" X 6" (51MM X 152MM) BY CAR WIDTH MINUS 1/2" (13MM) (AS REQD). NAIL OR TOENAIL THE FIRST PIECE TO A HEADER, PIECE MARKED (5), W/4-10d NAILS. NAIL OR TOENAIL EACH ADDITIONAL PIECE IN A LIKE MANNER. SECURE LAST PIECE TO OTHER HEADER, PIECE MARKED (5), W/4-10d NAILS.



DUNNAGE STRAP, PIECE MARKED $\widehat{\mathbf{3}}$, OMITTED OF CLARITY.

PAGE 6

6-RP/C LOAD IN A 42'-9" LONG BY 9'-5" WIDE GONDOLA CAR

SPECIAL NOTE:

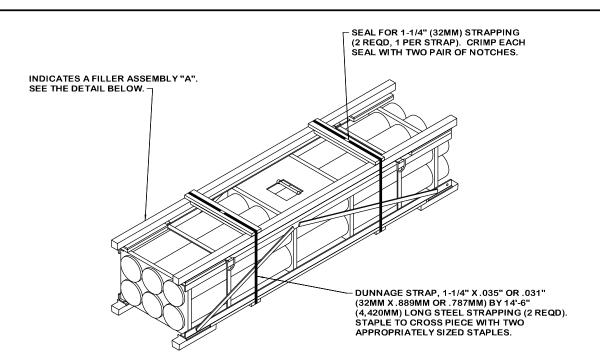
A SIX UNIT LOAD IS SHOWN IN A KOREAN GONDOLA. IF IT IS DESIRED TO SHIP FIVE ROCKET POD/CONTAINERS IT WILL BE NECESSARY TO INSTALL A FILLER ASSEMBLY IN THE PLACE OF AN OMITTED CONTAINER. SEE THE "FILLER ASSEMBLY B" DETAIL ON PAGE 12. THE FILLER SHOULD BE INSTALLED IN THE CENTER AREA OF THE CAR, ORIENTED AS INDICATED BY THE DETAIL. FOUR ROCKET POD/CONTAINERS CAN BE LOADED BY INSTALLING TWO FILLER ASSEMBLIES IN THE CENTER AREA. NOTE THAT IT MAY BE NECESSARY TO APPLY ANOTHER THICKNESS OF 2" X 4" (51MM X 102MM) TO THE FILL PIECE ON ONE FILLER ASSEMBLY TO PROVIDE FOR PROPER ALIGNMENT OF THE FILLER ASSEMBLY WITH THE LONGITUDINALLY ADJACENT CONTAINERS.

BILL OF MATERIAL			
LUMBER	LINEAR FEET	BOARD FEET	
1" X 6" (25MM X 152MM) 2" X 4" (51MM X 102MM) 2" X 6" (51MM X 152MM)	157 (4, 039MM)	18 105 319	
NAILS	NO. REQD	POUNDS	
6d (2") (51MM) 10d (3") (76MM)	18 246	1/4 4	
STEEL STRAPPING, 1-1/4" 162' REQD 24 LBS SEAL FOR 1-1/4" STRAPPING 12 REQD 1/2 LB WIRE 9' REQD NIL			

LOAD AS SHOWN

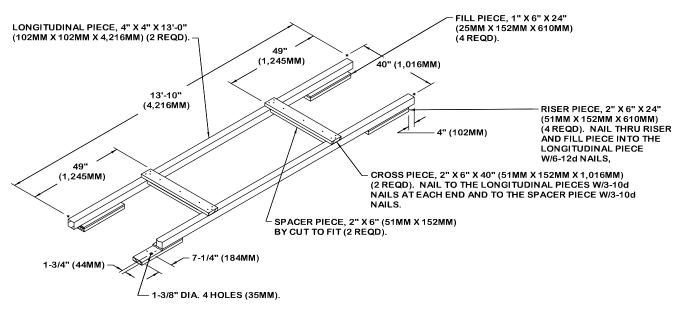
<u>ITEM</u>	QUANTITY	WEIGHT (APPROX)	
		30,564 LBS (13,864 KC 913 LBS (415 KC	
TOTA	L WEIGHT	31, 477 LBS (14, 278 KG	a) (APPROX)

6-RP/C LOAD IN A 42'-9" LONG BY 9'-5" WIDE GONDOLA CAR



INSTALLATION OF FILLER ASSEMBLY

THIS VIEW DEPICTS A FILLER ASSEMBLY "A" ATTACHED TO A ROCKET POD/CONTAINER FOR USE IN OMITTING A CONTAINER FROM A TOP LAYER. THE FILLER ASSEMBLY MUST BE ASSEMBLED TO THE ROCKET POD/CONTAINER PRIOR TO PLACEMENT IN THE CAR.



FILLER ASSEMBLY A

THIS ASSEMBLY IS DESIGNED FOR USE IN THE PLACE OF A ROCKET POD/CONTAINER OMITTED FROM THE TOP LAYER OF A 2-LAYER LOAD.

PROCEDURES FOR OMITTING A CONTAINER FROM THE TOP LAYER

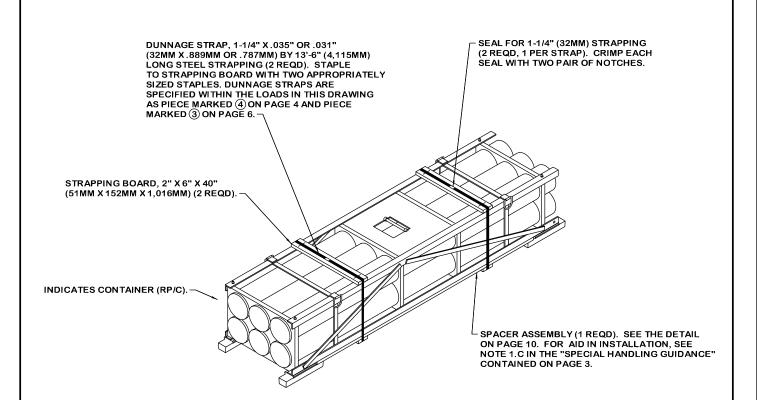


FIGURE 1

THIS VIEW DEPICTS AN UPPER LAYER CONTAINER OF A TWO LAYER LOAD OR A CONTAINER IN A ONE LAYER LOAD WITH REQUIRED DUNNAGE/DUNNAGE ASSEMBLIES ATTACHED. THE DUNNAGE/DUNNAGE ASSEMBLIES MUST BE ASSEMBLED TO THE CONTAINER PRIOR TO LOADING INTO THE GONDOLA CAR.

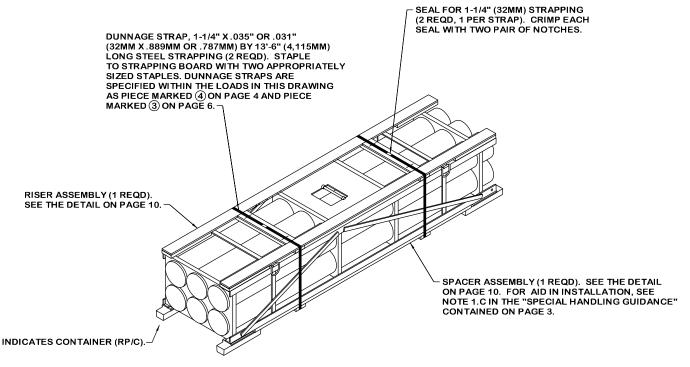
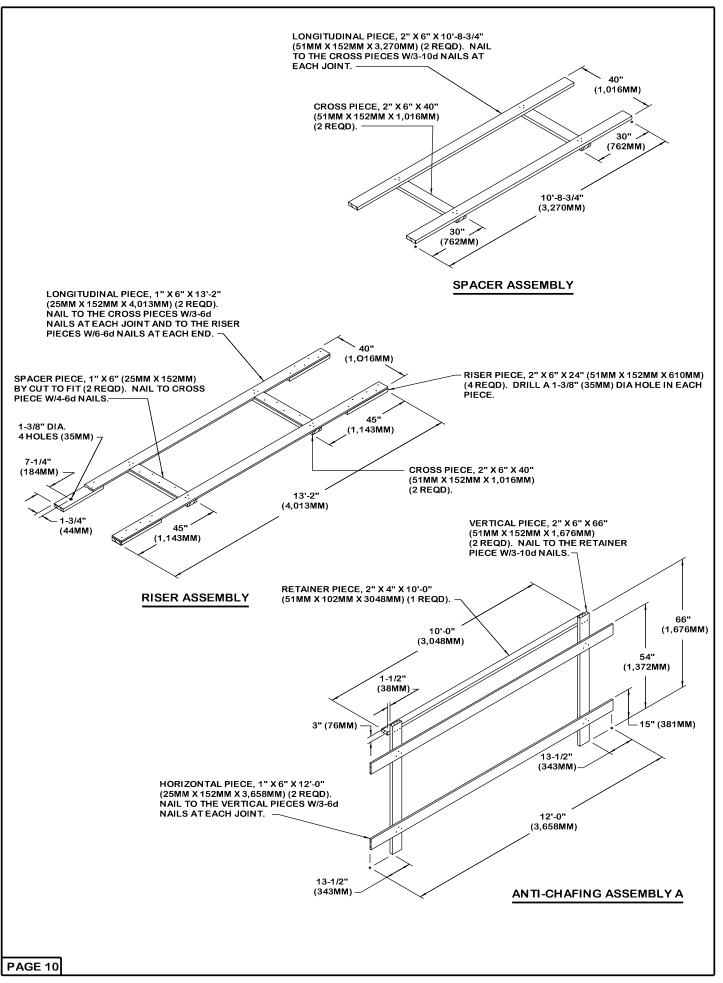
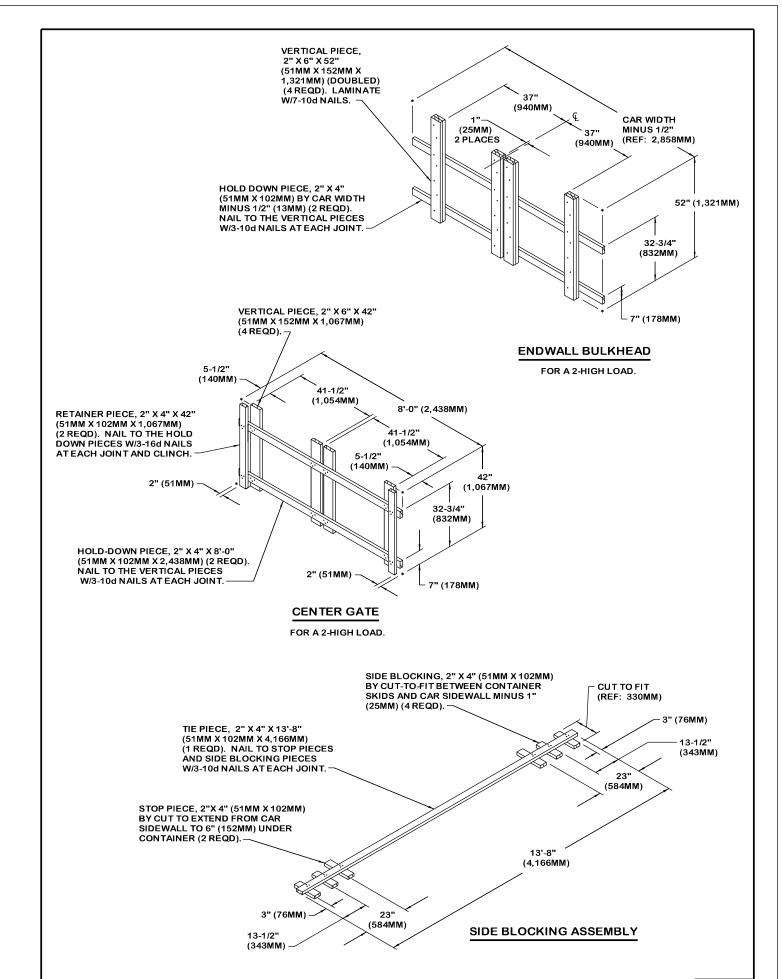


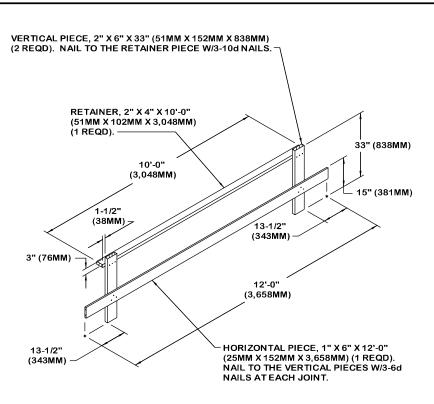
FIGURE 2

THIS VIEW DEPICTS A LOWER LAYER CONTAINER OF A TWO LAYER LOAD WITH THE REQUIRED DUNNAGE ASSEMBLIES ATTACHED. THE DUNNAGE ASSEMBLES MUST BE ASSEMBLED TO THE CONTAINER PRIOR TO LOADING THE GONDOLA CAR.

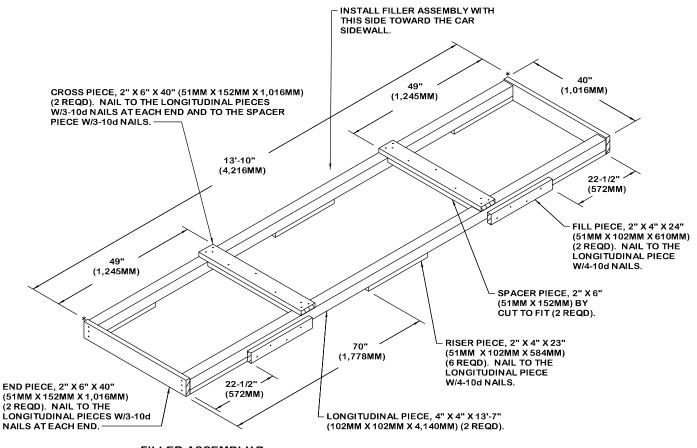
PREPARATION OF ROCKET POD/CONTAINER FOR SHIPMENT





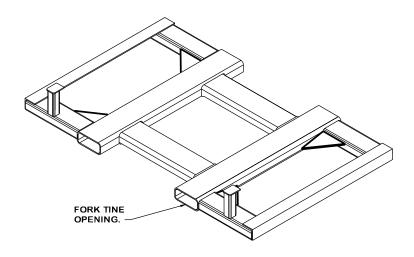


ANTI-CHAFING ASSEMBLY B



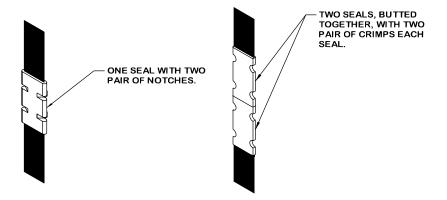
FILLER ASSEMBLY B

THIS ASSEMBLY IS DESIGNED FOR USE IN THE PLACE OF AN OMITTED ROCKET POD/CONTAINER IN A 1-LAYER LOAD.



STABILIZING FRAME

REFER TO DEFENSE AMMUNITION CENTER DRAWING NUMBER AC200000809 TO MANUFACTURE. THE DRAWING CAN BE OBTAINED FROM THE FOLLOWING ADDRESS: U.S. ARMY DEFENSE AMMUNITION CENTER, ATTN: SJMAC-DET, MCALESTER, OK 74501, DSN 956-8927, COMM (918) 420-8927.



STRAP JOINT A

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

STRAP JOINT B

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

END-OVER-END LAP JOINT DETAILS

