APPROVED BY BUREAU OF EXPLOSIVES

6/28/02

# LOADING AND BRACING WITH WOODEN DUNNAGE ON COMMERCIAL FLATRACK CONTAINERS OF JSOW (AGM-154) MISSILES PACKED IN CNU-575/E SHIPPING AND STORAGE CONTAINERS

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

# U.S. ARMY MATERIEL COMMAND DRAWING

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### **GENERAL NOTES**

- A. THIS DOCUMENT HAS BEEN PREPARED AND ISSUED IN ACCORDANCE L. MAXIMUM LOAD WEIGHT CRITERIA: WITH AR 740-1 AND AUGMENTS TM 743-200-1 (CHAPTER 5).
- B. ALL LOADS SHIPPED BY THE PROCEDURES DEPICTED IN THIS DRAW-ING MUST BE IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN TITLE 49, THE UNITED STATES CODE OF FEDERAL REGU-LATIONS; AR 55-355/AFM 75-2; DOD 4500.32-R; DOD 5100.76-M; DOD 6055.9-STD; AS WELL AS ANY AND ALL OTHER APPLICABLE SERVICE REGULATIONS
- C. THE SPECIFIED OUTLOADING PROCEDURES ARE APPLICABLE TO LOADS OF JSOW MISSILES PACKED IN THE CNU-575/E CONTAINER. SUBSEQUENT REFERENCE TO CONTAINER HEREIN MEANS THE CON-TAINER WITH MISSILE INSTALLED. SEE PAGE 3 FOR DETAIL OF THE CONTAINER. <u>CAUTION</u>: REGARDLESS OF THE QUANTITY OF CONTAINERS TO BE SHIPPED, THE "MAXIMUM GROSS WEIGHT" OF THE FLATRACK ISO CONTAINER MUST NOT BE EXCEEDED.
- D. THE LOADS AS SHOWN ARE BASED ON A 20'-0" LONG BY 8'-0" WIDE FLATRACK ISO CONTAINER WITH FULL HEIGHT ENDWALLS, AND IN-SIDE DIMENSIONS OF 19'-4" LONG BY 7'-2" WIDE. THE LOADS AS SHOWN CAN BE SHIPPED BY ANY FORM OF SURFACE TRANSPORTA-TION. NOTICE: OTHER CONTAINERS OF THE SAME DESIGN CON-FIGURATION CAN ALSO BE USED.
- E. WHEN LOADING CONTAINERS, THEY ARE TO BE POSITIONED SO AS TO ACHIEVE A TIGHT LOAD BETWEEN THE END BLOCKING ASSEM-BLY AND THE LADING. ALTHOUGH A TOTAL OF 1" OF UNBLOCKED SPACE ACROSS THE WIDTH OF A LOAD IS PERMITTED, LONGITUDI-NAL VOIDS WITHIN THE LOAD ARE TO BE HELD TO A MINIMUM, NOT EXCEEDING 1/2".
- F. DUNNAGE LUMBER SPECIFIED IS OF NOMINAL SIZE. FOR EXAMPLE, ' X 4" MATERIAL IS ACTUALLY 3/4" THICK BY 3-1/2" WIDE AND 2" X 6" MATERIAL IS ACTUALLY 1-1/2" THICK BY 5-1/2" WIDE.
- G. A STAGGERED NAILING PATTERN WILL BE USED WHENEVER POSSI-BLE WHEN NAILS ARE DRIVEN INTO JOINTS OF DUNNAGE ASSEM-BLIES OR WHEN LAMINATING DUNNAGE. ADDITIONALLY, THE NAIL-ING PATTERN FOR AN UPPER PIECE OF LAMINATED DUNNAGE WILL BE ADJUSTED AS REQUIRED SO THAT A NAIL FOR THAT PIECE WILL NOT BE DRIVEN THROUGH, ONTO OR RIGHT BESIDE A NAIL IN A
- H. PORTIONS OF ONE OF THE FLATRACK ENDWALLS DEPICTED WITHIN THIS DRAWING HAVE NOT BEEN SHOWN IN THE LOAD VIEWS FOR CLARITY PURPOSES.
- WHEN INSTALLING END BLOCKING ASSEMBLIES AND END WALL GATES, THE ASSEMBLIES MUST BE POSITIONED SO AS TO BE SUP-PORTED AND IN LINE WITH THE STRONG POINTS OF THE FLATRACK END WALLS. NOTE: SOME FLATRACK END WALLS WILL REQUIRE FILL PIECES TO BE INSTALLED ON THE END WALL GATES TO PRO-VIDE A UNIFORM LOAD BEARING SURFACE, AS DEPICTED IN THE DE-TAIL ON PAGE 6. THESE PIECES ARE NOT REQUIRED IF THE END WALL IS SMOOTH (IF THE HINGES DO NOT PROTRUDE).
- K. 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 BEING USED. REFER TO THE "STRAP JOINT A" AND "STRAP JOINT B" DETAILS ON PAGE 7 FOR GUIDANCE.

# MATERIAL SPECIFICATIONS

<u>LUMBER</u> :	SEE TM 743-200-1 (DUNNAGE LUMBER) AND VOLUNTARY PRODUCT STANDARD PS 20.
<u>NAILS</u> :	ASTM F1667; COMMON STEEL NAIL (NLCMS OR NLCMMS).
STRAPPING, STEEL:	ASTM D3953; FLAT STRAPPING, TYPE 1, HEAVY DUTY, FINISH A, B (GRADE 2), OR C.
SEAL, STRAP:	ASTM D3953; CLASS H, FINISH A, B (GRADE 2), OR C, DOUBLE NOTCH TYPE, STYLE I, II, OR IV.
ANTI-CHAFING	

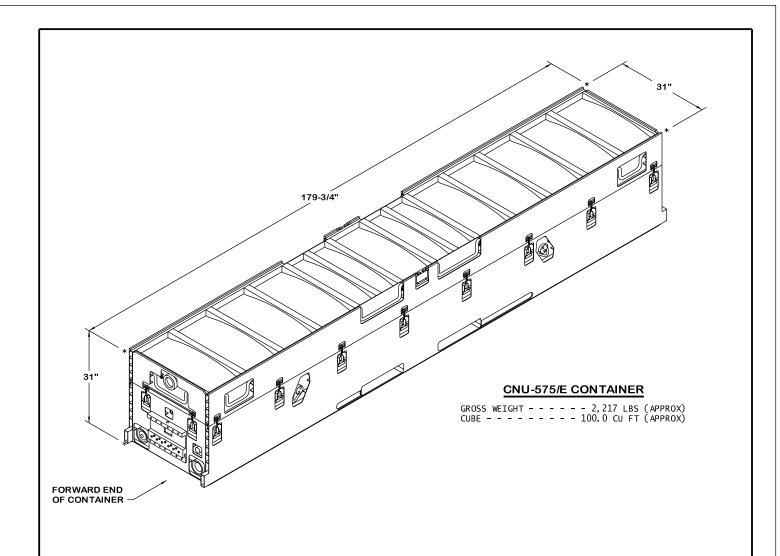
#### (GENERAL NOTES CONTINUED)

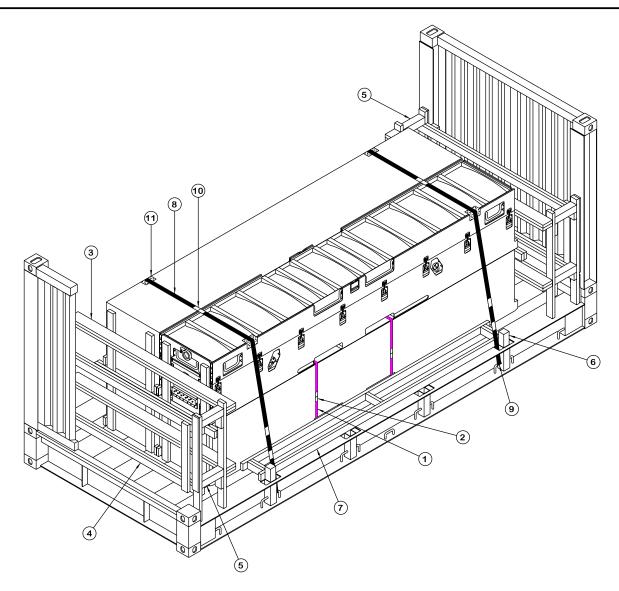
THE MAXIMUM LOAD WEIGHTS ARE CONTROLLED BY EQUIPMENT CAPABILITY FACTORS. ALTHOUGH THE HEAVIEST MAXIMUM LOADS ARE DELINEATED IN THE LOAD VIEWS, PROVISIONS ARE INCLUDED WITHIN THIS DRAWING SO THAT THE BASIC LOADS CAN BE AD-JUSTED TO SATISFY A LESSER QUANTITY OF LADING UNITS DEPENDING ON TRANSPORTATION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

- M. REQUIREMENTS CITED WITHIN THE ASSOCIATION OF AMERICAN RAILROADS (AAR) INTERMODAL LOADING GUIDE APPLY WHEN THE SHIPMENT MOVES BY TRAILER/CONTAINER-ON-FLATCAR (T/COFC). SPECIAL T/COFC NOTES FOLLOW:
  - A LOADED CONTAINER MUST BE ON A CHASSIS EQUIPPED WITH TWO BOGIE ASSEMBLIES WHEN BEING MOVED IN TOFC SERVICE.
  - THE LOAD LIMIT OF A T/COFC RAILCAR MUST NOT BE EXCEEDED, NOR WILL A CAR BE LOADED SO THAT THE TRUCK UNDER ONE END OF THE CAR CARRIES MORE THAN ONE-HALF OF THE LOAD LIMIT FOR THAT CAR.
- N. DURING INTRASTATE AND/OR INTERSTATE MOVES BY MOTOR CARRIER, A PROPER CHASSIS OR MODIFIED FLATBED TRAILER MUST BE USED TO PRECLUDE VIOLATION OF ONE OR MORE 'WEIGHT LAWS" APPLICABLE TO THE STATE OR STATES IN-VOLVED.
- O. THE 2" STRAPPING USED FOR LOAD SECUREMENT; I.E., HOLD-DOWN STRAPS, WILL ONLY BE FASTENED TO THE FLATRACK CONTAINER BY UTILIZING TIEDOWN PROVISIONS LOCATED ON THE TOP OR ALONG THE SIDE OF THE FLATRACK BOTTOM SIDE RAILS. CAUTION: THE LOAD SECUREMENT STRAPS WILL NOT BE POSI-TIONED AROUND THE UNDERSIDE OR THROUGH THE FORKLIFT POCKETS OF THE FLATRACK CONTAINER. ADDITIONALLY, THE FLATRACK TIEDOWN PROVISIONS MUST BE AT LEAST AS STRONG AS THE 2" LOAD SECUREMENT STRAPPING BEING USED, BE OF A SUFFICIENT WIDTH TO RECEIVE THE 2" STRAPPING AND BE OF A DESIGN WHICH WILL PROVIDE A BEARING SURFACE ACROSS THE FULL WIDTH OF THE 2" STRAPPING SO THAT THE STRAPPING WILL NOT BE DEFORMED, ESPECIALLY AT ITS EDGES, WHEN PROPERLY TENSIONED.
- P. THE OUTLOADING PROCEDURES SPECIFIED HEREIN CAN ALSO BE UTILIZED FOR THE SHIPMENT OF THE DEPICTED CONTAINERS WHEN THEY ARE LOADED WITH AN ITEM WHICH IS IDENTIFIED DIFFERENTLY BY NOMENCLATURE THAN THE ITEM DESIGNATED IN THE DRAWING TITLE
- Q. REFER TO ASSOCIATION OF AMERICAN RAILROADS MANUAL "GENERAL RULES GOVERNING THE LOADING OF COMMODITIES ON OPEN TOP CARS" FOR APPLICABLE LOADING RULES AS FOLLOWS: PREFACE, 1, 2, 3, 5, 7, 10, 12, 13, 14, AND 15. NOTE THAT ALL STRAP-PING USED FOR LOAD SECUREMENT, i.e., HOLD-DOWN STRAPS, MUST BE MARKED AS SPECIFIED IN LOADING RULE 15.
- R. CONVERSION TO METRIC EQUIVALENTS: DIMENSIONS WITHIN THIS DOCUMENT ARE EXPRESSED IN INCHES AND WEIGHTS ARE EXPRESSED IN POUNDS. WHEN NECESSARY, THE METRIC EQUIVA-LENTS MAY BE COMPUTED ON THE BASIS OF ONE INCH EQUALS 25.4MM AND ONE POUND EQUALS 0.454 KG.
- S. THE LOAD AS SHOWN ON PAGE 4 MAY BE REDUCED BY ONE LAYER FOR A SHIPMENT OF TWO CONTAINERS, IF DESIRED. SEE THE LOAD ON PAGE 8 FOR PROCEDURES ON SHIPPING ONE OR TWO CONTAIN-ERS. THREE CONTAINERS ON A SINGLE FLATRACK MAY NOT BE SHIPPED.
- T. WHETHER A CONTAINER IS FULL OR IS LOADED WITH A REDUCED QUANTITY OF LADING UNITS, THE LENGTHWISE CENTER OF GRAV-ITY OF THE LOAD MUST BE WITHIN 12", IN EITHER DIRECTION, OF THE MID-POINT OF THE CONTAINER.

MATERIAL - - - - -:

MIL-PRF-121 (OR EQUAL); NEUTRAL BARRIER





### ISOMETRIC VIEW

# (KEY NUMBERS CONTINUED)

- (7) SIDE BLOCKING ASSEMBLY (2 REQD). SEE THE DETAIL ON PAGE 5. TOENAIL THE SIDE OF THE ASSEMBLY OPPOSITE THE STAKES TO THE DECK OF THE FLATRACK W/4-16d NAILS. SEE SPECIAL NOTE 4 ON PAGE 5.
- (8) HOLD-DOWN STRAP, 2" X .050" OR .044" X 24'-0" LONG STEEL STRAP-PING (2 REQD). INSTALL EACH STRAP FROM TWO PIECES, EACH 12'-0" LONG. FASTEN TO A TIEDOWN PROVISION ON THE SIDE OF THE FLATRACK AND BRING UP TO THE TOP OF THE LOAD WHERE THEY CAN BE TENSIONED AND SEALED. SEE THE STRAP ANCHORING DETAILS ON PAGE 7.
- (9) PAD, 2" X.050" OR .044" X18" LONG STEEL STRAPPING (4 REQD). POSITION THE PAD BETWEEN THE HOLD-DOWN STRAP, PIECE MARKED (8), AND THE FLATRACK TIEDOWN PROVISION AND SECURE WITH ONE SEAL CRIMPED WITH ONE PAIR OF NOTCHES. SEE THE "END-OVER-END LAP JOINT DETAILS" ON PAGE 7.
- (10) SEAL FOR 2" STRAPPING (12 REQD, 6 PER STRAP). DOUBLE CRIMP EACH SEAL EXCEPT FOR THOSE USED TO SECURE THE PADS, PIECES MARKED (9).
- (1) ANTI-CHAFING, NEUTRAL BARRIER MATERIAL (AS REQD). PLACE UNDER HOLD-DOWN STRAP, PIECE MARKED (8), AT ALL POINTS OF CONTACT WITH THE CONTAINER. SEE SPECIAL NOTE 5 ON PAGE 5.

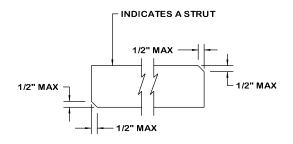
# **KEY NUMBERS**

- (1) STACK UNITIZING STRAP, 1-1/4" X.031" OR .035" X11'-3" LONG STEEL STRAPPING (4 REQD, 2 PER STACK). INSTALL AS FAR APART AS FORKLIFT OPENINGS ALLOW.
- ② SEAL FOR 1-1/4" STRAPPING (8 REQD, 2 PER STRAP). DOUBLE CRIMP EACH SEAL.
- (3) END BLOCKING ASSEMBLY (2 REQD). SEE THE DETAIL ON PAGE 6.
- 4 END WALL GATE (2 REQD). SEE THE DETAIL ON PAGE 6. POSITION AS SHOWN SO THAT THE RETAINER PIECES ARE LOCATED ON THE INSIDE EDGES OF THE FLATRACK CORNER POSTS. SEE SPECIAL NOTE 2 ON PAGE 5.
- (5) STRUT, 4" X 4" BY CUT-TO-FIT (REF: 12-7/8") (8 REQD). TOENAIL TO THE END BLOCKING ASSEMBLY AND THE END WALL GATE W/2-16d NAILS AT EACH END. SEE SPECIAL NOTES 2 AND 3 ON PAGE 5.
- 6 STAKE, 4" X 4" X 18" (4 REQD). INSTALL THE STAKES INTO THE FLATRACK STAKE POCKETS WITH A TIGHT (SNUG) FIT.

  NOTE: REFERENCE DIMENSIONS FOR A TIGHT FITTING STAKE ARE 3-1/4" (ACTUAL) X 3-1/4" (ACTUAL). TOENAIL TO THE SIDE BLOCKING ASSEMBLY W/2-10d NAILS ON EACH SIDE OF THE STAKE. NAIL W/1-20d NAILTHROUGH THE HOLE PROVIDED IN THE FACE OF THE FLATRACK STAKE POCKET AND INTO THE STAKE. BEND THE PROTRUDING HEAD OF THE NAIL OVER AGAINST THE STAKE POCKET.

(CONTINUED AT LEFT)

PAGE 4

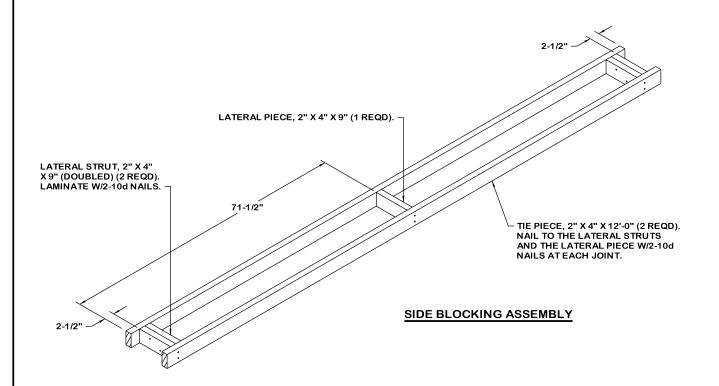


### **BEVEL-CUT**

IF DESIRED, EACH END OF A STRUT MAY BE BEVELCUT AS SHOWN ABOVE TO FACILITATE THE ACHIEVEMENT OF A TIGHT FIT BETWEEN THE BUFFER PIECE OF THE END BLOCKING ASSEMBLY AND THE VERTICAL PIECE OF THE END WALL GATE.

#### SPECIAL NOTES:

- 1. A 4-UNIT LOAD OF CNU-575/E CONTAINERS IS DEPICTED ON A COM-MERCIAL ISO FLATRACK CONTAINER.
- 2. IF THE FLATRACK HINGE DOES NOT PROTRUDE LONGITUDINALLY BEYOND THE CORNER POST, THE FILL PIECES OF THE END WALL GATE ARE NOT REQUIRED. IF THE FILL PIECES ARE NOT REQUIRED, EACH REFERENCED STRUT DIMENSION WILL HAVE TO BE INCREASED BY 3/4".
- 3. CUT THE STRUTS TO A LENGTH TO PROVIDE FOR A "DRIVE" FIT. SEE THE "BEVEL-CUT" DETAIL AT LEFT.
- 4. ENSURE THAT THE LATERAL STRUTS OF THE SIDE BLOCKING AS-SEMBLY ARE IN-LINE WITH THE STAKES AS SHOWN IN THE ISO-METRIC VIEW ON PAGE 4.
- PLACE ANTI-CHAFING NEUTRAL BARRIER MATERIAL AT ALL POINTS OF CONTACT BETWEEN THE STEEL STRAPPING AND THE CONTAINER AND SECURE TO PREVENT DISLODGEMENT DURING AND AFTER STRAP APPLICATION.
- 6. THE LOAD AS SHOWN MAY BE REDUCED BY TWO OR THREE CONTAINERS. SEE THE PROCEDURES ON PAGE 8 FOR SHIPMENT OF A ONE CONTAINER LOAD.



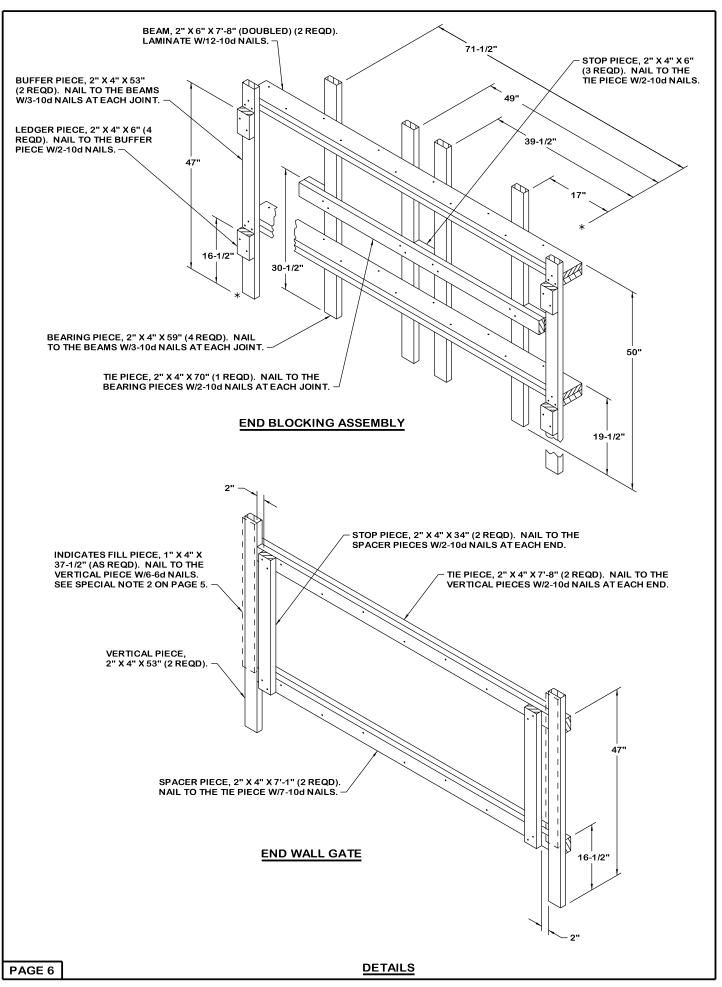
BILL OF MATERIAL					
LUMBER	LINEAR FEET	BOARD FEET			
1" X 4" 2" X 4" 2" X 6" 4" X 4"	6 221 61 15	2 147 61 19			
NAILS	NO. REQD	POUNDS			
6d (2") 10d (3") 16d (3-1/2") 20d (4")	12 264 40 4	NIL 4-1/2 1 NIL			

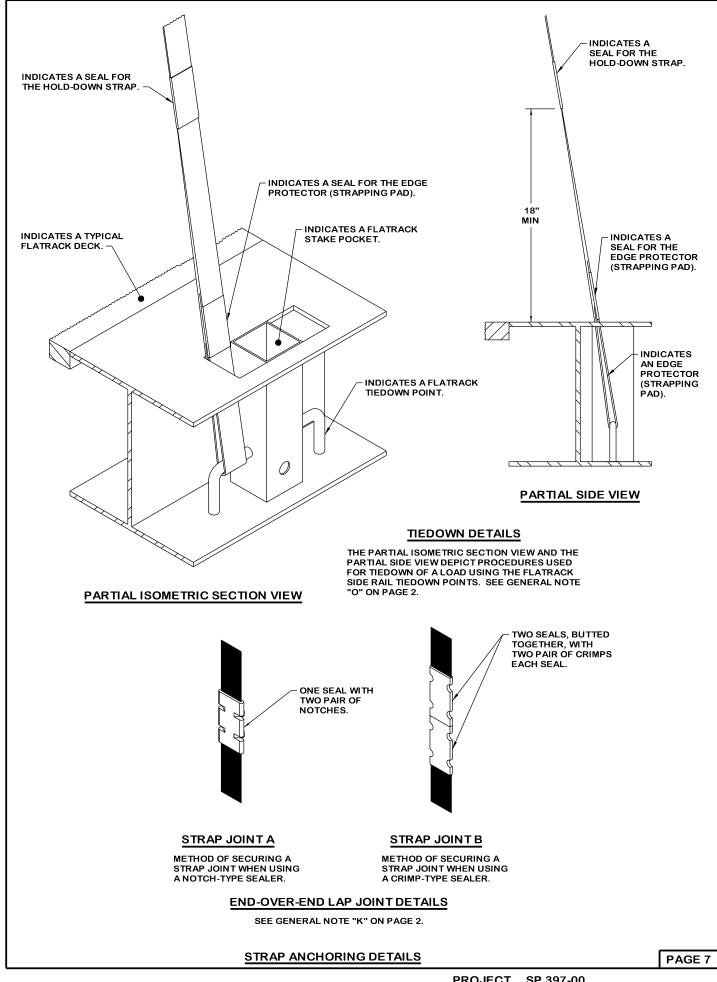
STEEL STRAPPING, 1-1/4" - - - 45' REQD - - 6-1/2 LBS SEAL FOR 1-1/4" STRAPPING - - - 8 REQD - - - 1/2 LBS STEEL STRAPPING, 2" - - - - 54' REQD - - - 18 LBS SEAL FOR 2" STRAPPING - - - 12 REQD - 2-1/2 LBS ANTI-CHAFING MATERIAL - - - AS REQD - - - NIL

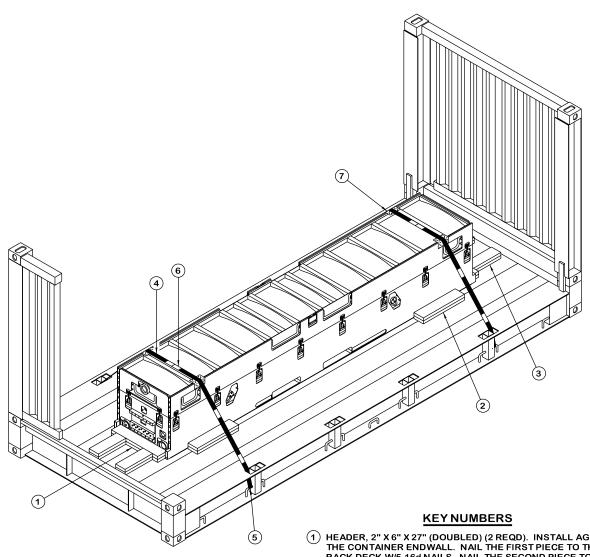
# **LOAD AS SHOWN**

<u>ITEM</u>	QUANTITY	<u>WEIGHT</u> (APPROX)	
CNU-575/E CONTAINER DUNNAGE CONTAINER		491 LBS	
TOTAL WEIG	HT	15.059 LBS (APPROX)	

PAGE 5







### ISOMETRIC VIEW

## SPECIAL NOTES:

- 1. A 1-UNIT LOAD OF CNU-575/E CONTAINERS IS DEPICTED ON A COM-MERCIAL ISO FLATRACK CONTAINER.
- 2. THE PROCEDURES SHOWN ARE ONLY FOR USE ON FLATRACKS HAVING WOODEN OR NAILABLE METAL FLOORS.
- 3. PLACE ANTI-CHAFING NEUTRAL BARRIER MATERIAL AT ALL POINTS OF CONTACT BETWEEN THE STEEL STRAPPING AND THE CONTAINER AND SECURE TO PREVENT DISLODGEMENT DURING AND AFTER STRAP APPLICATION.
- THE LOAD AS SHOWN MAY BE INCREASED BY ONE CONTAINER, FORMING ONE LAYER, OR IT MAY BE INCREASED BY THREE CON-TAINERS TO A FULL LOAD. FOR AN INCREASE OF ONE CONTAINER, INSTALL HEADERS AND BACKUP CLEATS FOR THE SECOND CONTAINER IN A SIMILAR MANNER TO THAT SHOWN ABOVE AND IN-STALL SIDE BLOCKING ASSEMBLIES AS SHOWN ON PAGE 4. FOR FOUR CONTAINERS, SEE THE PROCEDURES ON PAGE 4

- (1) HEADER, 2" X 6" X 27" (DOUBLED) (2 REQD). INSTALL AGAINST THE CONTAINER ENDWALL. NAIL THE FIRST PIECE TO THE FLAT-RACK DECK W/5-16d NAILS. NAIL THE SECOND PIECE TO THE FIRST IN A LIKE MANNER
- (2) SIDE BLOCKING, 2" X 6" X 24" (DOUBLED) (4 REQD). POSITION PARALLEL WITH THE SIDE OF THE CONTAINER AND WITHIN 12" OF THE END OF THE CONTAINER. NAIL THE FIRST PIECE TO THE THE END OF THE CONTAINER. MAIL THE FIRST FIECE TO THE FLATTRACK DECK W/6-164 NAILS. NAIL THE SECOND PIECE TO THE FIRST IN A LIKE MANNER.
- (3) BACK-UP CLEAT, 2" X 6" X 16" (DOUBLED) (4 REQD). INSTALL AGAINST THE HEADER, PIECE MARKED (1), WITH THE OUTSIDE EDGE OF THE BACK-UP CLEAT 3" FROM THE END OF THE HEADER. NAIL THE FIRST PIECE TO THE FLATRACK DECK W/4-16d NAILS. NAIL THE SECOND PIECE TO THE FIRST W/4-40d NAILS.
- (4) HOLD-DOWN STRAP, 2" X .050" OR .044" X 22'-0" LONG STEEL STRAPPING (2 REQD). INSTALL EACH STRAP FROM TWO PIECES, EACH 11'-0" LONG. FASTEN TO A TIEDOWN PROVISION ON THE SIDE OF THE FLATRACK AND BRING UP TO THE TOP OF THE LOAD WHERE THEY CAN BE TENSIONED AND SEALED. SEE THE STRAP ANCHORING DETAILS ON PAGE 7.
- (5) PAD, 2" X.050" OR .044" X18" LONG STEEL STRAPPING (4 REQD). POSITION THE PAD BETWEEN THE HOLD-DOWN STRAP, PIECE MARKED (4), AND THE FLATRACK TIEDOWN PROVISION AND SE-CURE WITH ONE SEAL CRIMPED WITH ONE PAIR OF NOTCHES. SEE THE "END-OVER-END LAP JOINT DETAILS" ON PAGE 7.
- (6) SEAL FOR 2" STRAPPING (12 REQD, 6 PER STRAP). DOUBLE CRIMP EACH SEAL EXCEPT FOR THOSE USED TO SECURE THE PADS, PIECES MARKED (5).
- (7) ANTI-CHAFING, NEUTRAL BARRIER MATERIAL (AS REQD). PLACE UNDER HOLD-DOWN STRAP, PIECE MARKED (4), AT ALL POINTS OF CONTACT WITH THE CONTAINER. SEE SPECIAL NOTE 3 AT

PAGE 8

LESS-THAN-FULL-LOAD PROCEDURE