BLINEAU OF EXPLOSIVES

A, J. Gracemuck

MATTERY ASSETSIAT

12/7/62

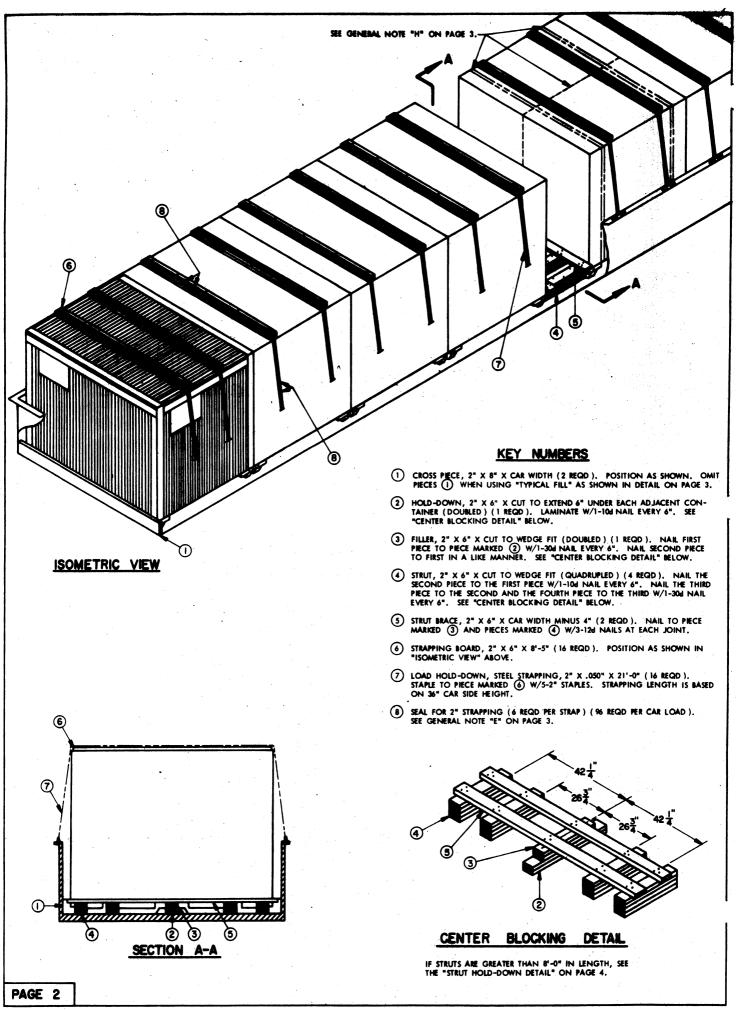
ALL SYSTEMS

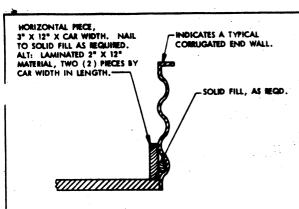
LOADING AND BRACING (CL & LCL) IN GONDOLA CARS OF TYPE I (HALF SIZE) AND TYPE 2° (STANDARD) CARGO TRANSPORTERS (CONEX CONTAINERS) WHEN LOADED WITH MISSILE / ROCKET ASSOCIATED COMMODITIES

- TYPE 2 (STANDARD) CARGO
 TRANSPORTER IS NOT TO BE USED
 FOR OVERSEAS SHIPMENT OF MILITARY
 EXPLOSIVES AND HAZARDOUS MUNITIONS.
 SEE GENERAL NOTE "C" ON PAGE 3 FOR
 WAIVER PROVISIONS.
- THE OUTLOADING PROCEDURES DELINEATED HEREIN ARE APPLICABLE TO THE MOVEMENT OF CONEX CONTAINERS WHICH ARE LOADED WITH ANY RELATIVELY SMALL COMMODITY, WHETHER AMMUNITION OR GROUND SUPPORT EQUIPMENT ORIENTED. HOWEVER, OTHER REGULATIONS / DIRECTIVES APPLY TO SUCH MATTERS AS SELECTION OF ITEM FOR CONEX MOVEMENT, ITEM PACKAGING SPECIFICATIONS AND SO FORTH.

DO NOT SCALE

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TYPICAL FILL

END BLOCKING FOR CARS WITH CORRUGATED END WALLS.

BILL	OF MATERIAL	(SEE "NOTE" BELOW)
LUMBER	LINEAR FEET	BOARD FEET
2" X 6"	205	205
2" X 8"	19	- 24
NAILS	NO, REQD	POUNDS
10d (3")	25	1/2
12d (3-1/4")	30	1/2
30d (4-1/2")	50	2-1/2
STRAPPING, STEEL, 2" STAPLE FOR 2" STRAPPINGEAL FOR 2" STRAPPINGE	ING {	6' REQD 112 LBS 80 REQD NIL 86 REQD 20 LBS

FOR CARGO TRANSPORTER, TYPE I, (1/2 SIZE), ADD STRAPPING, STEEL, 1-1/4" X .035" ------ 528' REQD ------ 76 LBS. SEAL FOR 1-1/4" STRAPPING --- 32 REQD ------ 2 LBS.

MATERIAL SPECIFICATIONS

LUMBER ----: SEE TM 715-5500-1, DUNNAGE LUMBER; FED SPEC MM-L-751.

NAILS ----- : COMMON, CEMENT COATED OR CHEMICALLY ETCHED, FED SPEC FF-N-105.

ALT: ANNULAR-RING TYPE NAILS OF THE SAME SIZE.

STRAPPING, STEEL: TYPE I OR IV, CLASS A OR C, FED SPEC QQ-5-781. FOR FSN SEE S8-38-100.

*WEIGHT OF CARLOAD SHOWN WAS COMPUTED BY USING A 7,800 POUND MAXIMUM CONTENT WEIGHT PER TRANSPORTER.
ACTUAL WEIGHT DEPENDS UPON THE WEIGHT OF THE COMMODITIES BEING SHIPPED IN THE TRANSPORTERS. CAUTION:
DO NOT EXCEED LOAD LIMIT STENCILED ON CAR.

GENERAL NOTES

- THE LOAD AS SHOWN IS BASED ON A GONDOLA CAR WHICH IS 32"-4" LONG X 9"-2" (MIN) WIDE. LARGER CARS MAY BE USED; HOWEVER, CARS LONGER THAN 32"-4" SHOULD NOT BE ORDERED FOR SHIPPING THE DEPICTED LOAD. THE "BILL OF MATERIAL" FOR THE LOAD AS SHOWN IS BASED ON A CAR WHICH HAS 36" HIGH MAILERAL TO THE LOAD AS SHOWN IS ANY PEIGHT SIDE WALL CAN BE USED. WHEN MAKING A FULL-LOAD SHIPMENT THAT CONTAINS A LESS-THAN-SHOWN QUANTITY, A CAR OF A LENGTH WHICH BEST SUITS THE QUANTITY TO BE SHIPPED SHOULD BE ORDERED SO THAT THE MOST EFFICIENT SHIPPING RATE WILL APPLY AND/OR SO THAT A MINIMUM AMOUNT OF DUNNAGE WILL BE REQUIRED, CAUTION: THE USE OF CARS WITH DROP DOORS IN FLOOR IS PROHIBITED.
- FOR DETAILS OF CARGO TRANSPORTER, TYPE I (1/2 SIZE). SEE MILITARY SPECIFI-CATION MIL-8-11886.

OUTSIDE DIMENSIONS ---- 51" LONG X 75" WIDE X 82-1/2" HIGH. MAXIMUM CONTENT WEIGHT --- 7,800 LBS.

FOR DETAILS OF CARGO TRANSPORTER, TYPE 2 (STANDARD), SEE MILITARY SPECIFI-CATION MIL-8-11886.

OUTSIDE DIMENSIONS ---- 102" LONG X 75" WIDE X 82-1/2" HIGH.
TARE WEIGHT ---------- 1,430 LBS (APPROX).
MAXIMUM CONTENT WEIGHT --- 7,800 LBS.

FOR OVERSEAS SHIPMENTS, SEE PROVISIONS OF PART 146.29-90, TITLE 46, CODE OF FEDERAL REGULATIONS. CARGO TRANSPORTERS, COMPLYING WITH SPECIFICATION MIL-8-21560, MAY BE USED FOR THE TRANSPORTATION OF MILITARY EXPLOSIVES AND HAZARDOUS MUNITIONS SUBJECT TO THE FOLLOWING CONDITION.

ONLY TYPE I TRANSPORTERS SHALL BE USED. TYPE 2 MAY ONLY BE USED UNDER SPECIAL AUTHORITY OF THE COMMANDANT OF THE COAST GUARD. THE LOAD CONTENT SHALL NOT EXCEED 7,800 LBS.

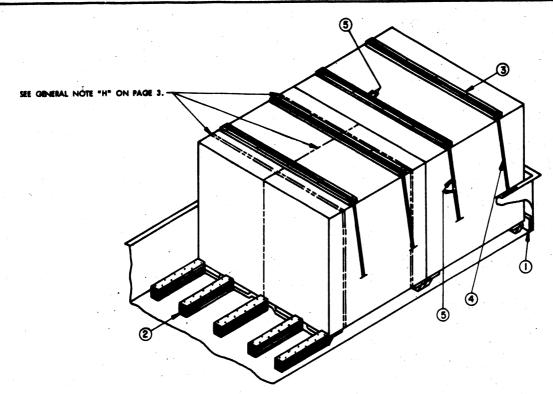
- SELECTION OF RAIL CARS FOR THE TRANSPORT OF THESE ITEMS WILL BE IN ACCORD-ANCE WITH DOT (ICC) REGULATIONS AND AR 55-355 IN FULL.
- WHEN ANY STRAP IS SEALED, IRRESPECTIVE OF THE TYPE OF JOINT BEING MADE, A MINIMUM OF TWO (2) SEALS (BUTTED TOGETHER) WITH TWO (2) CRIMPS PER SEAL MUST BE USED.
- A SHIPMENT WILL BE POSITIONED IN THE RAILCAR IN COMPLIANCE WITH THE WEIGHT DISTRIBUTION REQUIREMENTS OF THE AAR. THE NUMBER OF UNITS MAY BE ADJUSTED TO FIT THE RAILCAR CONCERNED OR THE QUANTITY TO BE SHIPPED; HOWEVER, THE APPROVED METHODS, CONTAINED HEREIN FOR A FULL OR PARTIAL CARLOAD, MUST BE FOLLOWED AS CLOSELY AS POSSIBLE FOR BLOCKING, BRACING, AND STAYING OF THE DEPICTED ITEMS.
- FOR THE CARLOADING OF THIS ITEM, INSTALLATIONS SHOULD REQUEST GONDOLA CARS WHICH HAVE TIEDOWN-STRAP ANCHOR FACILITIES. IN THE EVENT GONDOLA CARS SO EQUIPPED ARE NOT READILY AVAILABLE, TIEDOWN-STRAP ANCHORS MAY BE LOCALLY FABRICATED AS DETAILED ON PAGE 4.
- LOADS DEPICTED HEREIN ARE BASED ON CARGO TRANSPORTER, TYPE 2, (STANDARD). FOR CARLOADING OF CARGO TRANSPORTER, TYPE 1, (1/2 SIZE); TWO (2) 1-1/4" X .035" STEEL STRAPS 33'-0" LONG ARE REQUIRED TO UNITIZE EACH TWO (2) CARGO TRANSPORTERS AS TYPICALLY SHOWN IN THE ISOMETRIC VIEWS.
- LOADING, BLOCKING AND BRACING METHODS SHOWN HEREIN ARE APPROVED FOR HIGH-DENSITY LOW-VOLUME MATERIAL, INCLUDING EXPLOSIVE ITEMS, INTERNALLY BLOCKED AND BRACED INSIDE A TRANSPORTER IN ACCORDANCE WITH APPROVED "FILLING" DRAWINGS OF THE 19-48 SERIES, OR APPLICABLE PRABAGRAPHS OF DOT REGULATIONS (TARIFF NO. 19 AND SUBSEQUENT ISSUES THEREOF).
- CAUTION: A LOADED TRANSPORTER MUST NEVER BE POSITIONED IN A CAR WITH THE DOORS FACING IN THE DIRECTION OF CAR TRAVEL --- LOAD WITH CONTAINER SKIDS CROSSWISE OF CAR.
- IF A RAILCAR IS NOT EQUIPPED WITH PLACARD BOARDS ON BOTH ENDS AND BOTH SIDES, 16" X 24" BOARDS MUST BE PROVIDED AS REQUIRED, PROVIDING THE LOAD BEING SHIPPED REQUIRED PLACARDING. PLACARDS AND/OR PLACARD BOARDS MUST NOT BE FASTENED TO THE LADING.
- PORTIONS OF THE DEPICTED CARS WITHIN THIS PROCEDURAL DRAWING, SUCH AS A CAR SIDE WALL, HAVE BEEN OMITTED FOR CLARITY PURPOSES.
- Dunnage lumber specified throughout this procedural drawing is of nominal size. For example, 2" x 6" material is actually 1-5/8" thick by 5-5/8" wide and 2" x 8" material is actually 1-5/8" thick by 7-1/2" wide.

LOAD AS SHOWN

	77.0 7.10 0.10			
ITEM	QUANTITY	WEIGHT (APPRO		
TYPE 2 CARG	30 8	73,840	LBS	(MAX)
TRANSPORTE	R ·			
DUNNAGE -		708	LBS	_
	TOTAL WEIGHT'	74 548	IRS	*

LOAD AS SHOWN

		_			
ITEM	QUANTITY		GHT (APPROX		
TYPE 1 CARGO 16141,600 LBS					
TRANSPORTER					
DUNNAGE		786	LBS		
	TOTAL WEIGHT 1	42,386	LBS *		



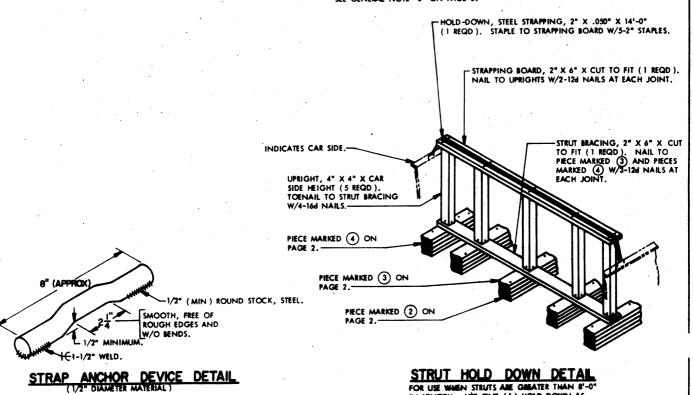
TYPICAL LCL

THE DEPICTED PROCEDURES ARE ONLY FOR USE WITH 9"-0" OR WIDER GONDOLA CARS WHICH HAVE NAIL-ABLE FLOORS. SEE NOTES " AND ". " " BELOW.

- FIVE (5) BACK-UP CLEATS, SHOWN AS PIECES MARKED (2), ARE ADEQUATE FOR RETAINING UP TO BUT NOT GREATER THAN 20,000 POUNDS OF LCL LADING.
- ALTHOUGH TYPE-2 CONTAINERS ARE SHOWN IN
 THE LCL LOAD ABOVE, TYPE-1 OR A COMBINATION
 OF THE TYPES CAN ALSO BE OUTLOADED BY THE
 SPECIFIED PROCEDURES, PROVIDING THE GUIDANCE
 WITHIN NOTE " " ABOVE IS OBSERVED.

- CROSS PIECE, 2" X 8" X CAR WIDTH (1 REQD). POSITION AS SHOWN. OMIT PIECE (1) WHEN USING "TYPICAL FILL" AS SHOWN ON PAGE 3.
- 2 BACK-UP, 2" X 6" X 48" (QUADRUPLED) (5 REQD). NAIL FIRST PIECE TO CAR FLOOR W/10-16d NAILS. NAIL THE SECOND PIECE TO THE FIRST, THE THIRD PIECE TO THE SECOND AND THE FOURTH PIECE TO THE THIRD W/10-40d NAILS AT EACH LAYER. REFER TO NOTE ™ TO THE LEFT.

 3 STRAPPING BOARD, 2" X 6" X 8"-5" (4 REQD). POSITION AS SHOWN IN "TYPICAL LCL" ABOVE.
- 4 LOAD HOLD-DOWN, STEEL STRAPPING, 2" X .050" X 211-0" (4 REQD). STAPLE TO PIECE MARKED 3 W/5-2" STAPLES. STRAPPING LENGTH IS BASED ON 36" CAR SIDE
- (5) SEAL FOR 2" STRAPPING (6 REQD PER STRAP) (12 REQD PER TYPCIAL LCL LOAD). SEE GENERAL NOTE "E" ON PAGE 3.



STRUT

FOR USE WHEN STRUTS ARE GREATER THAN 8'-0' LENGTH, USE ONE (1) HOLD-DOWN AS-BLY FOR EVERY 8'-0" OF STRUT LENGTH.

PAGE 4