

MILITARY STANDARD

LOADING OF HAZARDOUS MATERIALS AND ASSOCIATED ITEMS IN MILVAN CONTAINERS

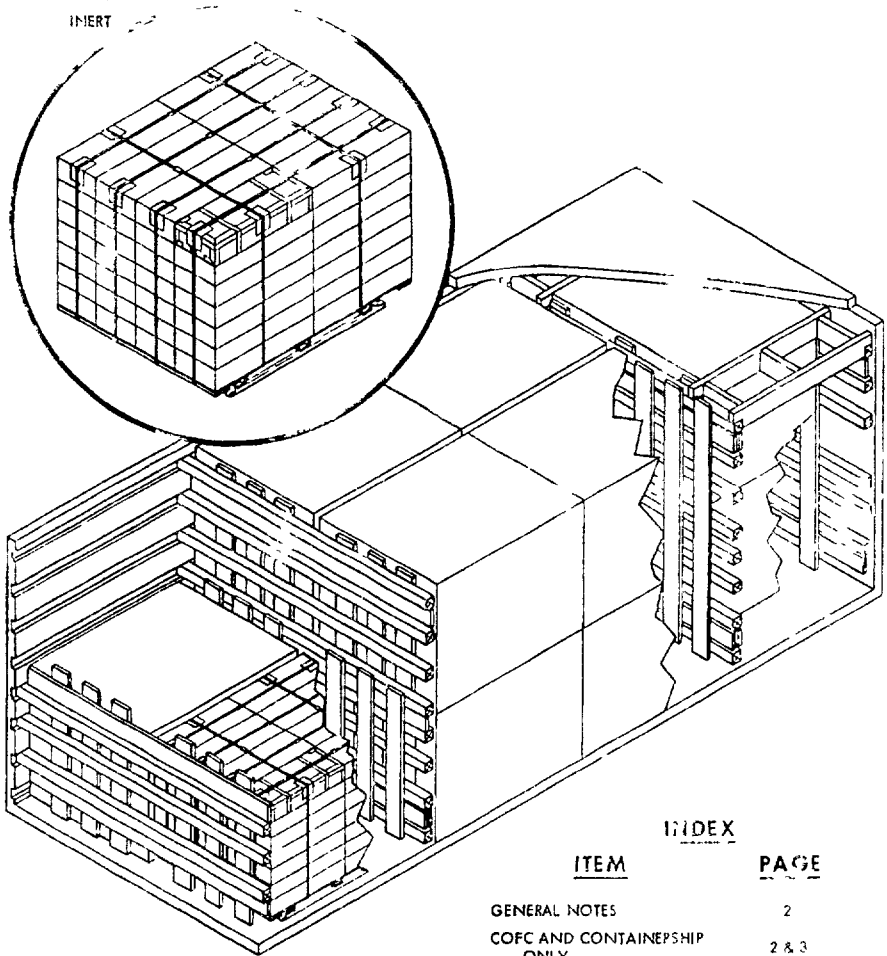
BOMB, PRACTICE MK 76 MOD 445

FLEET ISSUE UNIT LOAD

NAVY
(NAVY)

UNIT LOAD DATA

| | |
|---------------------------|---------------------------------|
| UNIT LOAD DRAWING | WR-54/217 |
| WEIGHT | 3022 LBS |
| DIMENSIONS | 57 7/8" x 44 1/2" W x 42 5/8" H |
| CUBE | 61.2 CU FT |
| DOT HAZARD CLASSIFICATION | INERT |
| COAST GUARD CLASS | INERT |



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NOTES

- UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
- FOR CROSS REFERENCE TO ASSOCIATED PALLETING, TRUCKLOADING AND CARLOADING MILITARY STANDARDS, REFER TO THE INDEX TO STANDARDS, MIL-HDBK-236 (NAVY)

AUTHORIZED FOR TRAILER-ON-FLAT-CAR (TOFC), CONTAINER-ON-FLAT-CAR (COFC), CONTAINERSHIP AND HIGHWAY SHIPMENTS

SIGNATURE: *[Handwritten Signature]* DATE: 4/19/73
 SIGNATURE: *[Handwritten Signature]* DATE: 4/19/73

ORIGINATOR: *[Handwritten Signature]*
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 MADE SABLE P. W. REECEY

MILVAN 15-22 (NAVY)

GENERAL NOTES

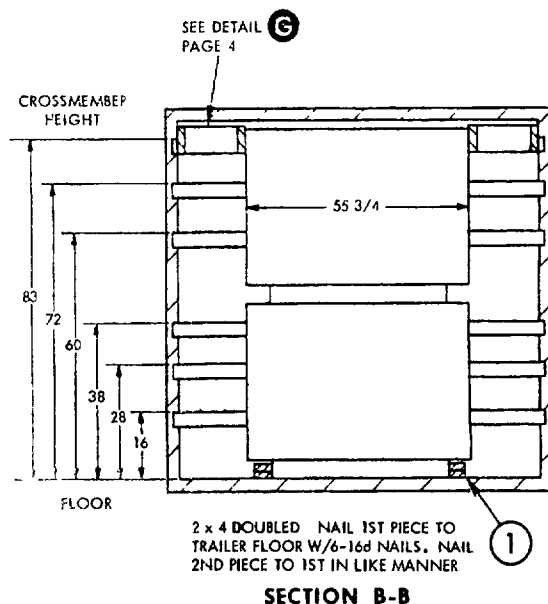
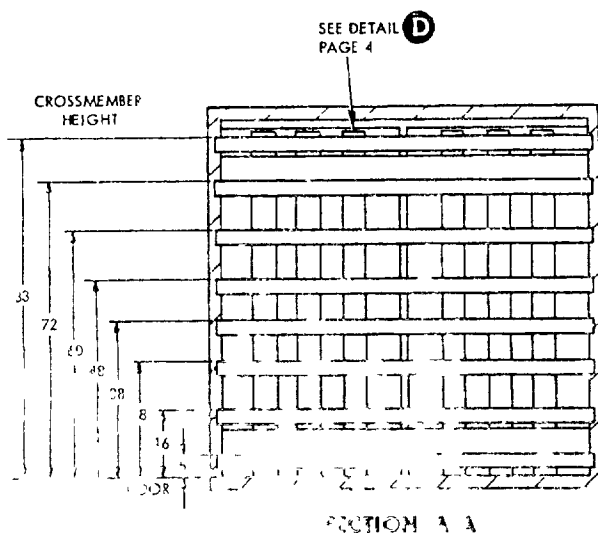
1. THIS DOCUMENT GIVES DETAILED INSTRUCTIONS FOR LOADING THE MILVAN CONTAINER WITH FLEET ISSUE UNIT LOADS OF MIL 76 MODS 1 AND 5. ALL UNIT LOADS IN THE BODIES SHALL BE PALLETIZED IN ACCORDANCE WITH WR-54/217. THE MILVAN SHALL BE EQUIPPED WITH A MECHANICAL LOAD-BRACING SYSTEM THAT MEETS THE REQUIREMENTS OF THE BUREAU OF XPLOD VES PAMPHLET 6 C.
 2. IN ADDITION TO THE BELT RAILS REQUIRED BY PAMPHLET 6 C, THE MILVAN CONTAINER HAS BELT RAILS AT THE 72 AND 83 INCH HEIGHTS FROM THE CONTAINER FLOOR.
- CAUTION
- WHEN POSITIONING CROSSMEMBERS, MAKE A VISUAL CHECK TO ENSURE THAT THE CROSSMEMBERS ARE LOCKED SECURELY IN PLACE
3. CONTAINERS ARE EQUIPPED WITH 25 CROSSMEMBERS. UNUSED CROSSMEMBERS MUST REMAIN WITH THE CONTAINER AND SHALL BE FASTENED INTO BELT RAILS FOR SHIPMENT.
 4. WHEN THE VOID BETWEEN THE CROSSMEMBER AND THE SEPARATOR GATE IS GREATER THAN ONE INCH, USE FILL MATERIAL TO SHIM BETWEEN CROSSMEMBER AND GATE AS SHOWN IN DETAIL F, PAGE 4.
 5. LENGTH OF STRUT, PIECE 2, SHALL BE SUFFICIENT TO CAUSE SWAY BRACE, DETAIL G, TO FILL THE VOID BETWEEN THE UNIT LOAD AND THE CONTAINER SIDE WALL. TWIST TIE SWAY BRACE TO CROSSMEMBER WITH 16 GAUGE SOFT ANNEALED IRON WIRE, TWO PLACES.
 6. APPLICABLE MATERIAL SPECIFICATIONS:
 - DUNNAGE LUMBER - FED. SPEC. MM-L-751
 - NAILS - FED. SPEC. FF-N-105, TYPE II, STYLE 10, COMMON BRIGHT
 - STRAP - FED. SPEC. QQ-S-781, TYPE I, CLASS A
 7. AFTER BLOCKING AND BRACING HAS BEEN INSPECTED, ATTACH SHIPPING DOCUMENTS INSIDE THE CONTAINER IN AN ACCESSIBLE AREA AND CLOSE AND SEAL CONTAINER DOORS.

COFC AND CONTAINERSHIP ONLY

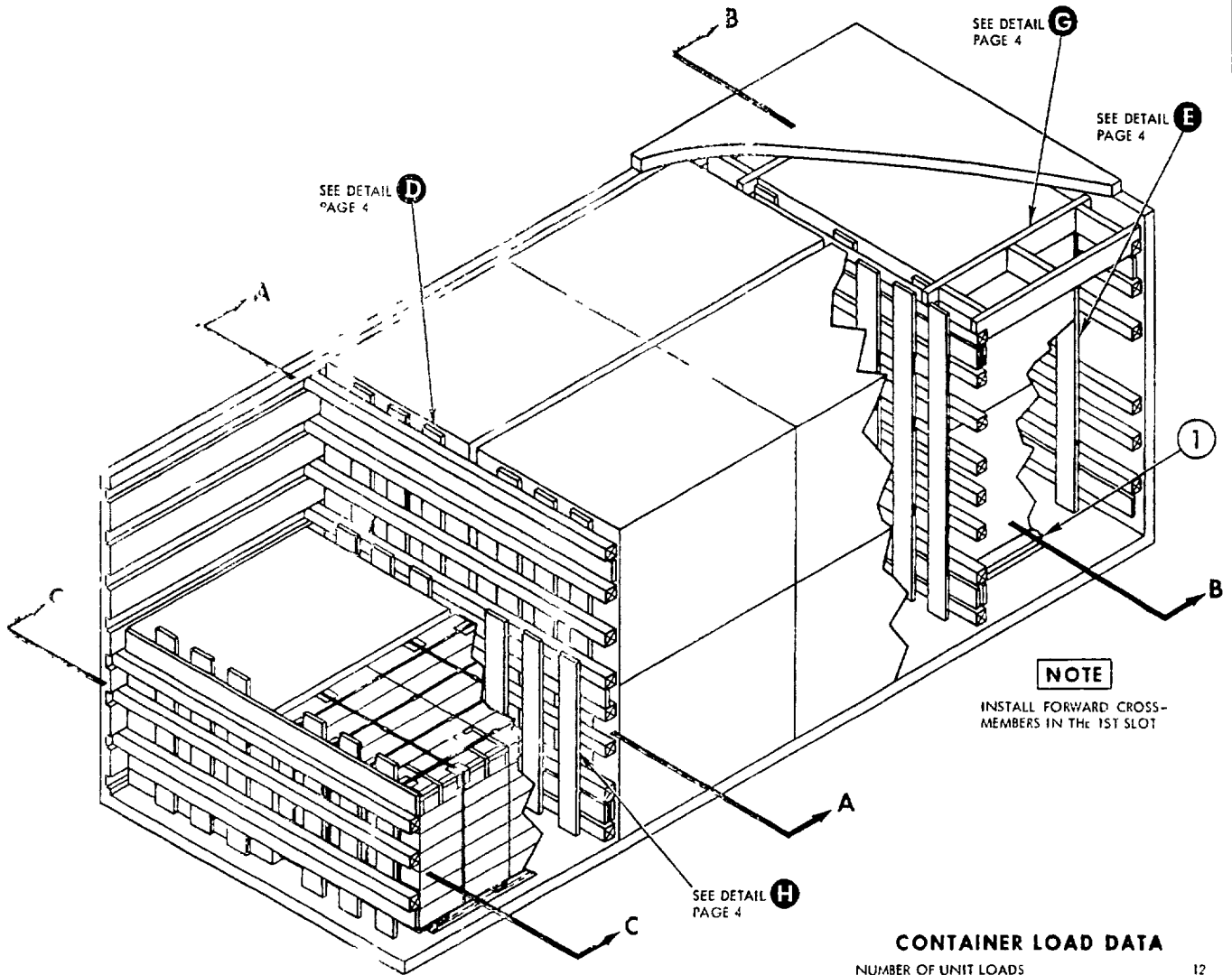
1. THE CONTAINER LOAD CONSISTS OF 12 UNIT LOADS WHICH MUST BE LOADED AND DUNNAGED IN ACCORDANCE WITH THIS DOCUMENT.

WARNING

BECAUSE THE WEIGHT LOADED INTO THIS CONTAINER EXCEEDS 14,000 LBS, THE MILVAN CHASSIS CANNOT BE USED TO TRANSPORT THE LOADED CONTAINER ON PUBLIC HIGHWAYS. THE LOADED CONTAINER MAY BE TRANSPORTED OVER DEPOT ROADS USING MILVAN CHASSIS EQUIPPED WITH DOUBLE BOGIES OR COMMERCIAL EQUIPMENT OF APPROPRIATE CAPACITY.

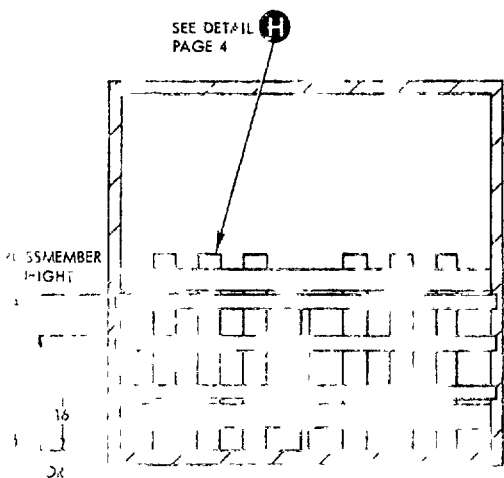


MIL-STD-1386-22 (NAVY)



CONTAINER LOAD DATA

| | |
|------------------------------|-----------|
| NUMBER OF UNIT LOADS | 12 |
| NUMBER OF CROSSMEMBERS REQ D | 25 |
| LOAD WEIGHT | 36,274 LB |
| DUNNAGE WEIGHT | 423 LB |
| CONTAINER WEIGHT | 5,785 LB |
| GROSS WEIGHT | 42,482 LB |

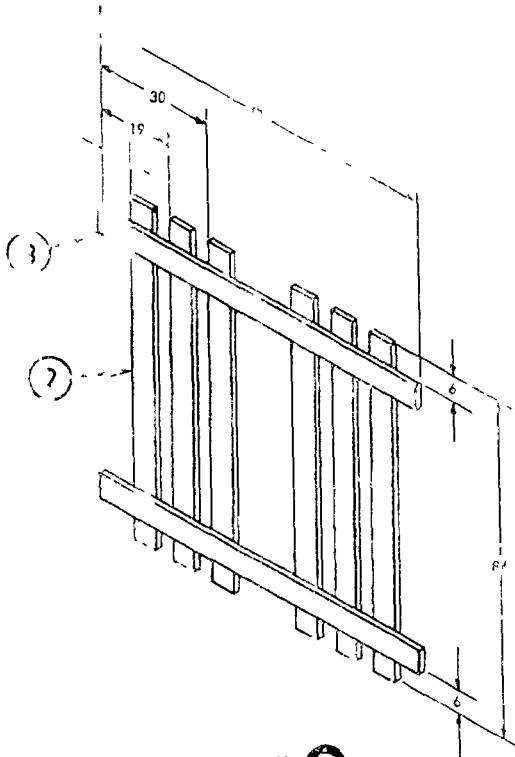


SECTION C-C

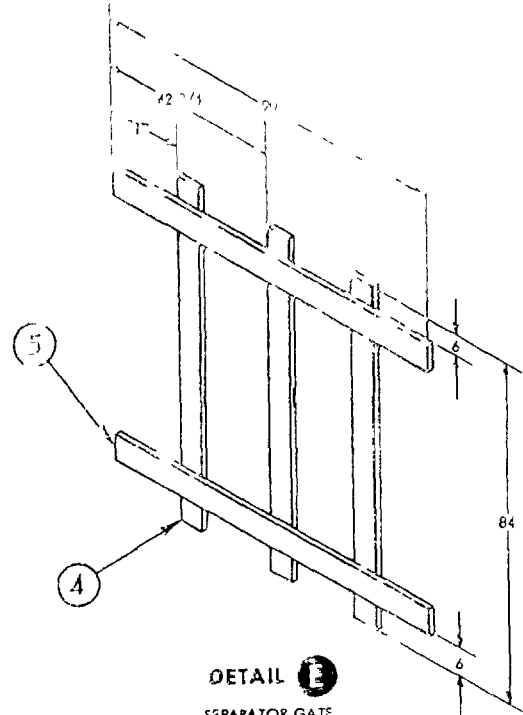
| PIECE NO | DESCRIPTION | SIZE | NO PCS REQD | NAIL TO | NUMBER NAILS | SIZE |
|----------|--------------|---------------|-------------|-----------------|----------------------|------|
| 9 | HORIZONTAL | 1 x 6 x 90 | 4 | SEE 8 | - | - |
| 8 | VERTICAL | 1 x 6 x 48 | 12 | 9 | 3 PER JOINT CLINCHED | 6d |
| 7 | STRUT | 2 x 6 TO SUIT | 6 | SEE 6 | - | - |
| 6 | LONGITUDINAL | 2 x 6 x 57 | 4 | 7 | 4 PEP JOINT | 12d |
| 5 | HORIZONTAL | 1 x 6 x 90 | 4 | SEE 4 | - | - |
| 4 | VERTICAL | 1 x 6 x 84 | 6 | 5 | 3 PEP JOINT CLINCHED | 6d |
| 3 | HORIZONTAL | 1 x 6 x 90 | 4 | SEE 2 | - | - |
| 2 | VERTICAL | 1 x 6 x 84 | 12 | 3 | 3 PER JOINT CLINCHED | 6a |
| 1 | SLEEPER | 2 x 4 x 48 | 4 | SEE SECTION B-B | | |

LIST OF MATERIALS AND NAILING DATA

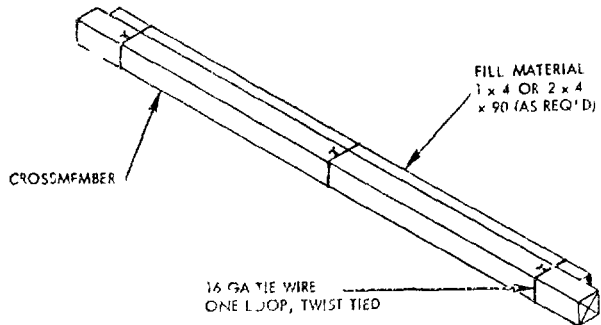
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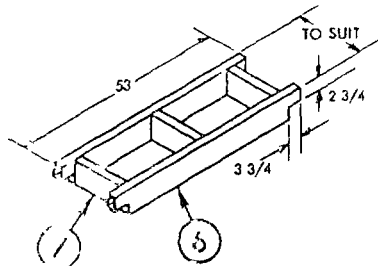
DETAIL D
SEPARATOR GATE
2 REQUIRED



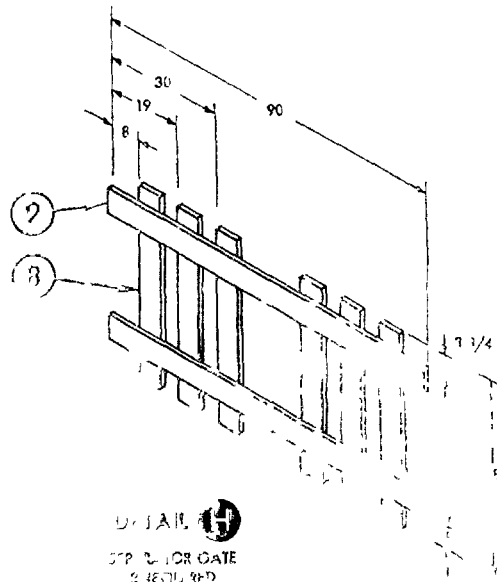
DETAIL E
SEPARATOR GATE
2 REQUIRED



DETAIL F
FILL MATERIAL
SEE GENERAL NOT. 5



DETAIL G
1/4" GALV...
2 REQUIRED
PER NICHE



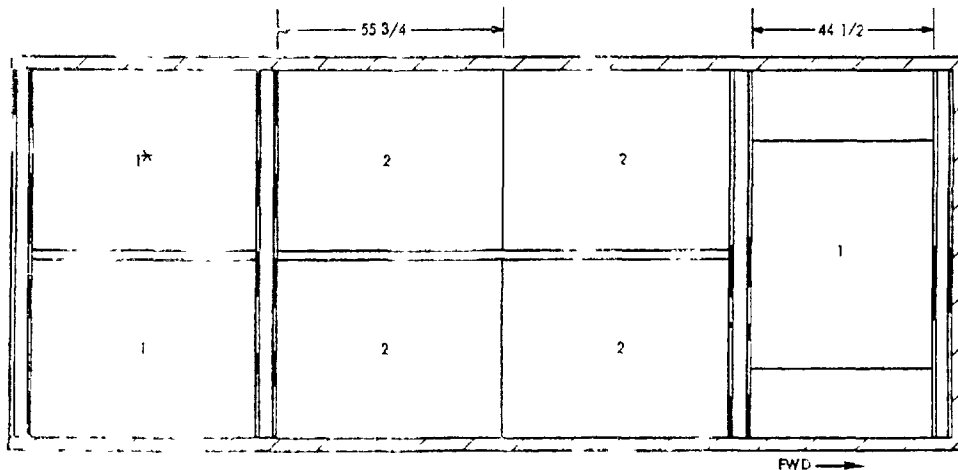
DETAIL H
SEPARATOR GATE
2 REQUIRED

TOFC, COFC, CONTAINERSHIP AND HIGHWAY

1. NUMBER OF UNIT LOADS TO THE MILVAN CONTAINER WHEN THE LOADED CONTAINER IS TO BE MOVED VIA TOFC OR COFC OR HIGHWAY. THIS QUANTITY MAY ALSO BE MOVED COFC AND CONTAINERSHIP.
2. LOAD THE CONTAINER USING THE LOAD DIAGRAM SHOWN BELOW. BLOCK AND BRACE USING THE PRINCIPLES SHOWN ON PAGE 3. MUST HEIGHT OF SEPARATOR GATES IN FIRST BAY TO 48 INCHES.

NOTE

- IN CERTAIN STATES THE GROSS VEHICLE WEIGHT (GVW), (CONTAINER, CHASSIS AND TRACTOR), IS LIMITED BY THE DISTANCE BETWEEN THE FIRST AND LAST AXLES OF THE ASSEMBLED RIG. CARE MUST BE TAKEN TO SEE THAT THE PROPOSED GVW DOES NOT EXCEED THESE LIMITS. IF IT DOES, THE WEIGHT MAY BE DECREASED BY REDUCING THE NUMBER OF UNIT LOADS IN THE CONTAINER AS FOLLOWS:
4. OMITTING ONE OR BOTH OF THE UNIT LOADS IN THE REAR BAY.
 3. OMITTING THE UNIT LOADS IN THE REAR AND FRONT BAYS.
3. BECAUSE ELEVEN UNIT LOADS DOES NOT EXCEED 34,000 LBS, A MILVAN CHASSIS WITH DOUBLE BOGIES CAN BE USED TO TRANSPORT A CONTAINER VIA TRUCK OR HIGHWAY. COMMERCIAL EQUIPMENT OF APPROPRIATE CAPACITY MAY ALSO BE USED FOR HIGHWAY MOVEMENT.



LOADING PLAN
(PLAN VIEW)
11 UNIT LOADS

* INDICATES NUMBER OF UNIT LOADS IN A LAYER

CONTAINER LOAD DATA

| | |
|---------------------------------|-----------|
| NUMBER OF UNIT LOADS | 11 |
| NUMBER OF CROSSMEMBERS REQUIRED | 22 |
| LOAD WEIGHT | 33,242 LB |
| DUNNAGE WEIGHT | 419 LB |
| CONTAINER WEIGHT | 785 LB |
| GROSS WEIGHT | 34,446 LB |