

## CHAPTER 5

### RIGGING TRAILER WITH AN/MTC-10 TELEPHONE CONTROL OFFICE GROUP

#### 5-1. Description of Load

The M416 trailer with the AN/MTC-10 telephone control office group is rigged on an 8-foot modular platform. The load requires either one G-11A or one G-11B cargo parachute. The trailer with the AN/MTC-10 weighs 1,755 pounds. It is 129 inches long, 59 inches wide, and 80 inches high.

#### 5-2. Preparing Platform and Installing Suspension Slings

Prepare an 8-foot modular platform as follows:

*a. Inspecting Platform.* Inspect, or assemble and inspect, the platform as outlined in TM 10-1670-208-20&P/TO 13C3-4-12.

*b. Attaching Suspension Slings.* Attach four 3-foot (3-loop) slings and four 12-foot (3-loop) slings to the platform as shown in figure 5-1.

*c. Attaching and Numbering Clevises.* Attach and number 14 load tiedown clevises as shown in figure 5-1.

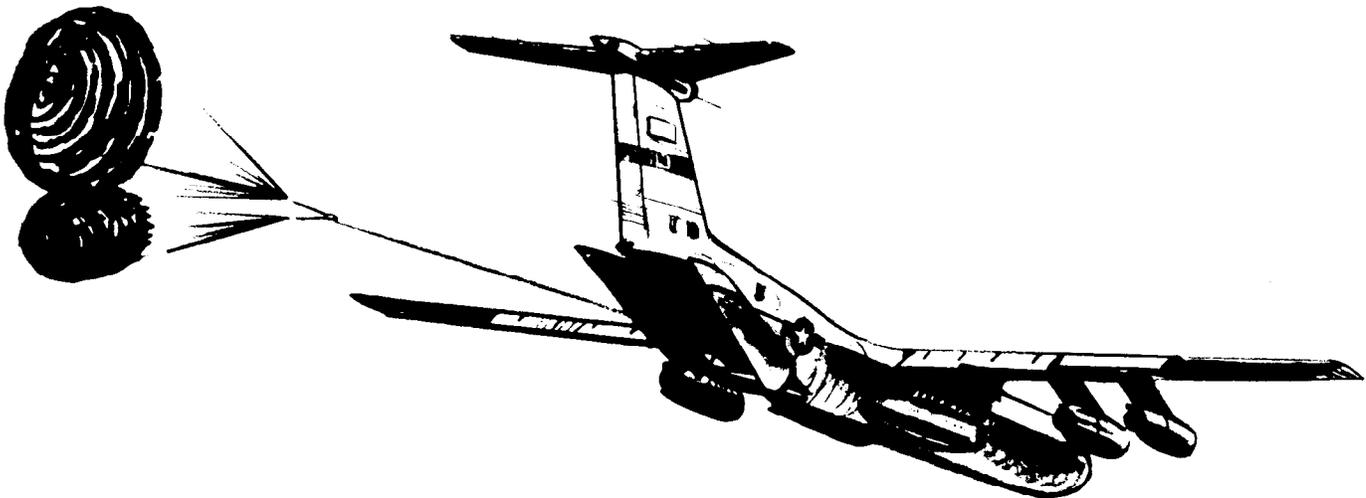
*d. Positioning Load Spreaders.* Position 3/4-by 48-by 96-in plywood as load spreaders on the platform as shown in figure 5-1.

#### 5-3. Preparing and Positioning Honeycomb

Prepare and position honeycomb stacks as shown in figures 5-2 and 5-3.

#### 5-4. Preparing Trailer and Telephone Office Control Group Equipment

Prepare the trailer and stow the telephone office control group equipment in the trailer as shown in figure 5-4.



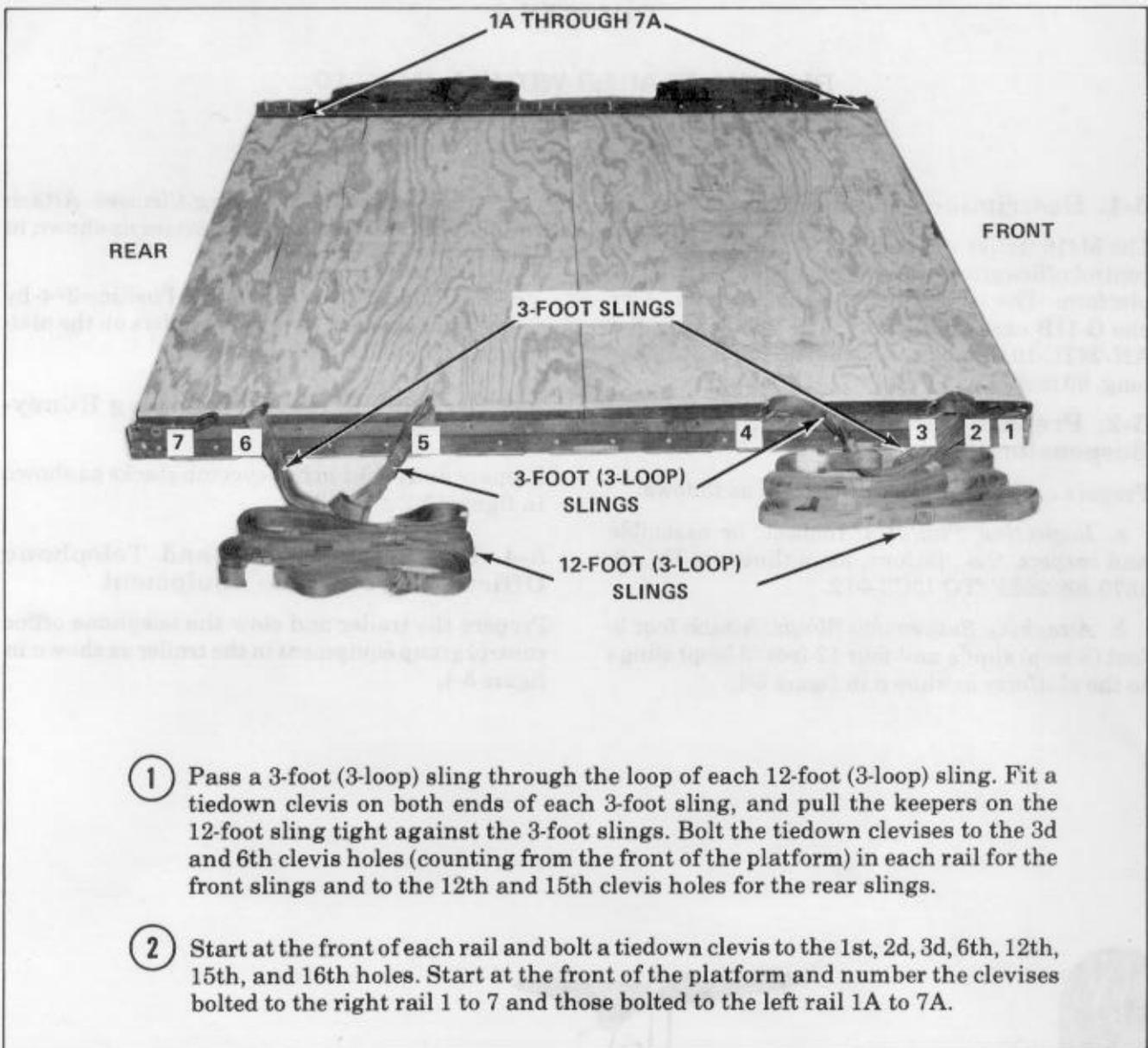


Figure 5-1. Platform prepared and suspension slings installed.

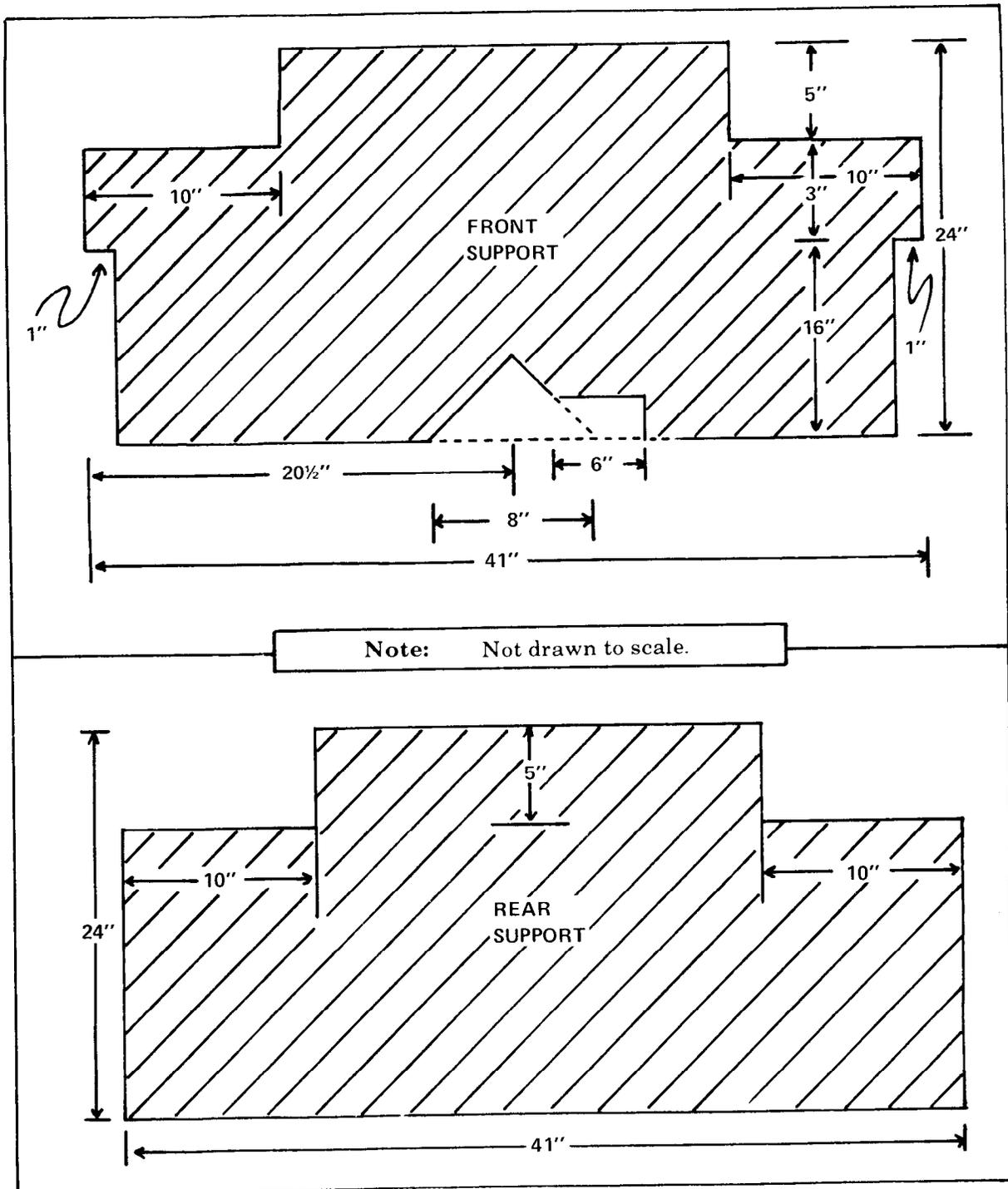


Figure 5-2. Trailer support, construction details.

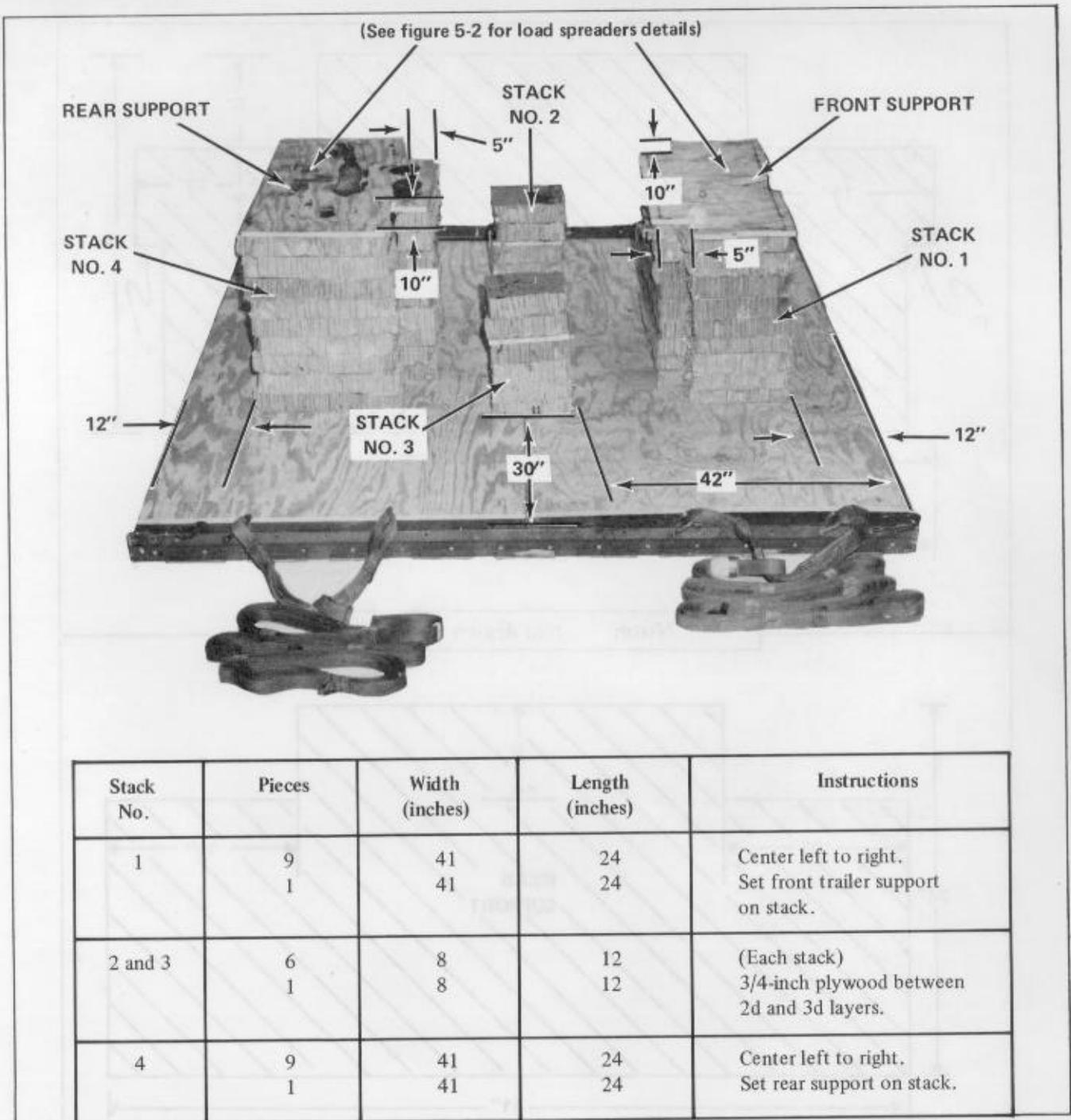
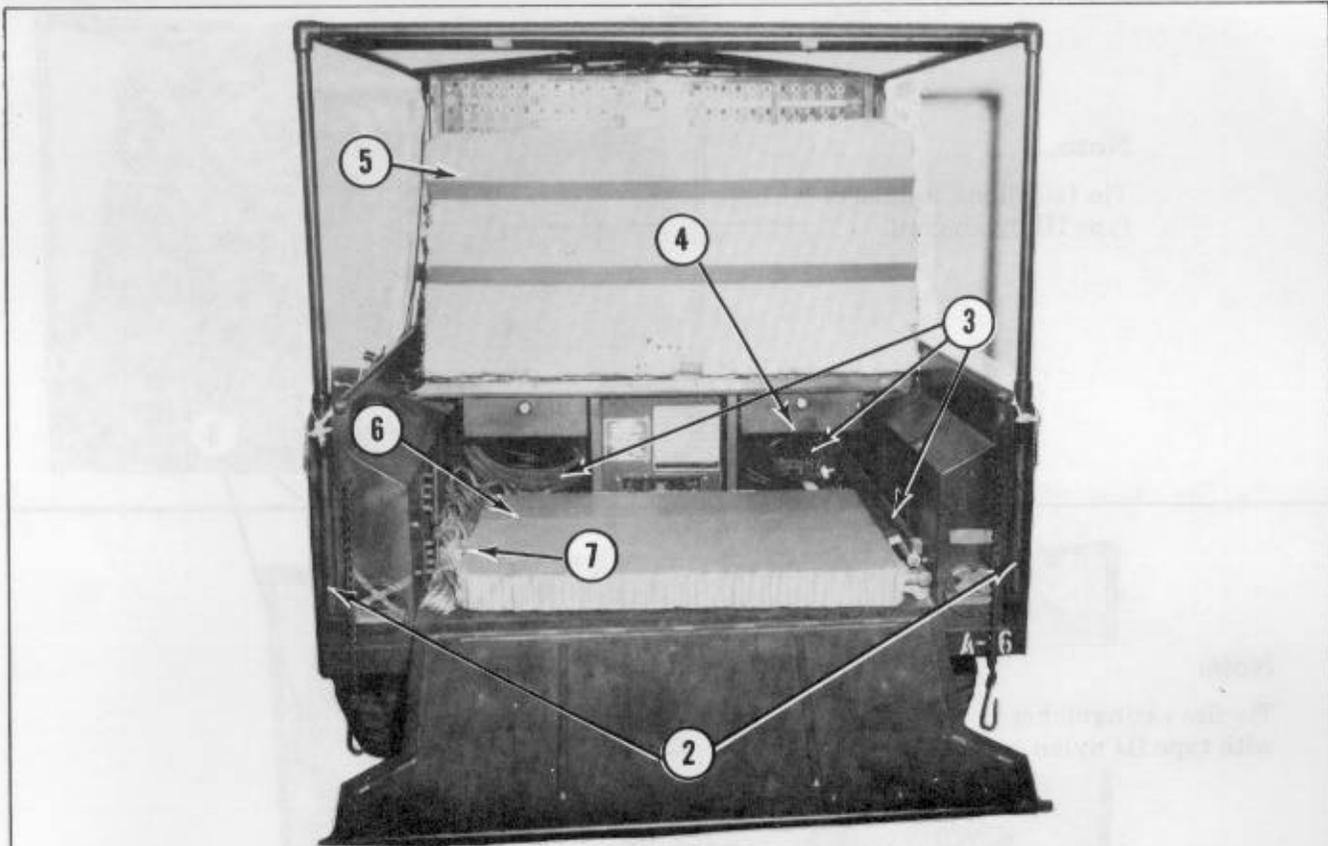


Figure 5-3. Honeycomb positioned.

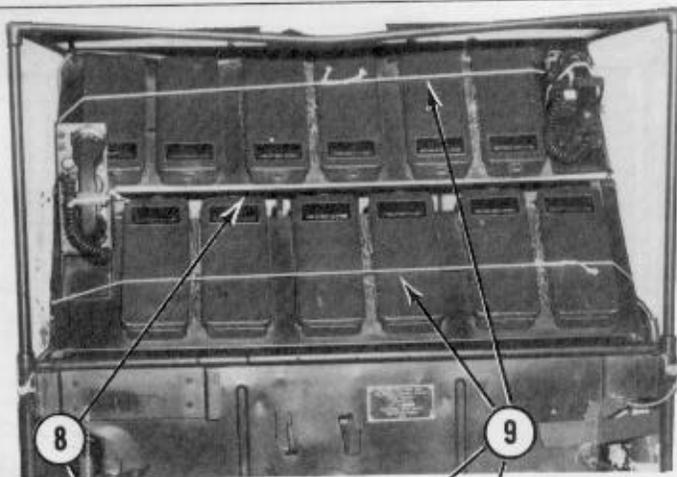


- ① Remove top cover and operational light. Note: These items will be stowed later.
- ② Lower the top frame to the traveling position.
- ③ Place extension cords, gas line, power cable, extra hook cable, and JB-1770 under right and left rear drawers. Place grounding rods and tent posts on floor under right drawer.
- ④ Place hammer and brush in right drawer.
- ⑤ Place a 24- by 48-inch piece of honeycomb against switchboard, and tape it in place.
- ⑥ Place a 28- by 36-inch piece of honeycomb on the floor of the trailer.
- ⑦ Stow tent lines (ropes) in a convenient location in the trailer.

*Figure 5-4. Preparing trailer and telephone office control group equipment.*

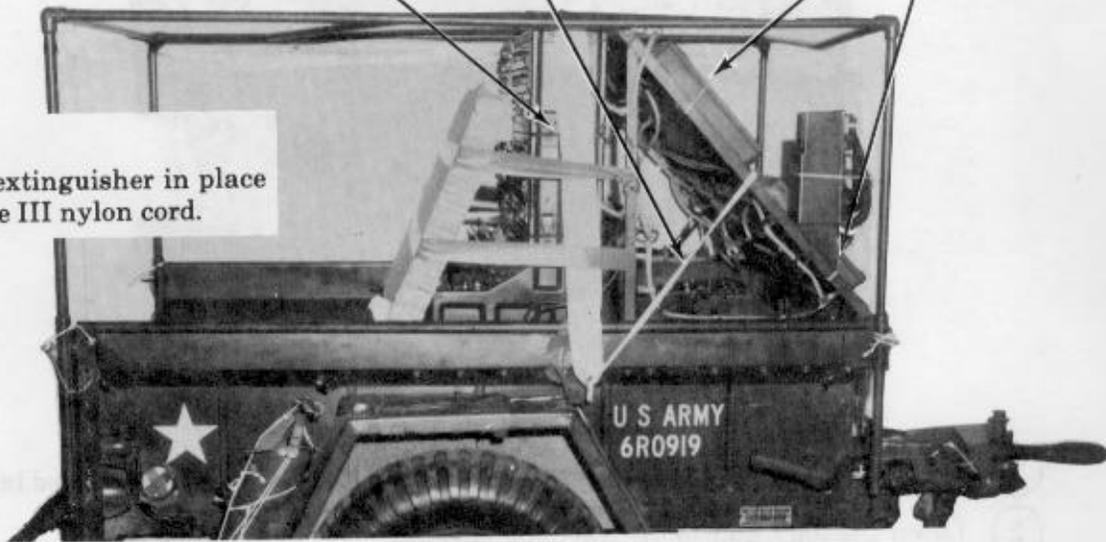
**Note:**

Tie telephone handsets with type III nylon cord.



**Note:**

Tie fire extinguisher in place with type III nylon cord.



- ⑧ Pass a length of 1/2-inch tubular nylon cord across the patch box panel, and tie it to the paulin hooks on each side.
- ⑨ Tie patch box lids in the closed position with type III nylon cord.
- ⑩ Form a 30-foot tiedown strap (FM 10-500/TO 13C7-1-5) and run the strap across the top of the switchboard frame from the second trailer side paulin hook to the second side paulin hook on the other side. Bind the end with a D-ring and load binder on top of the frame.

*Figure 5-4. Preparing trailer (continued).*

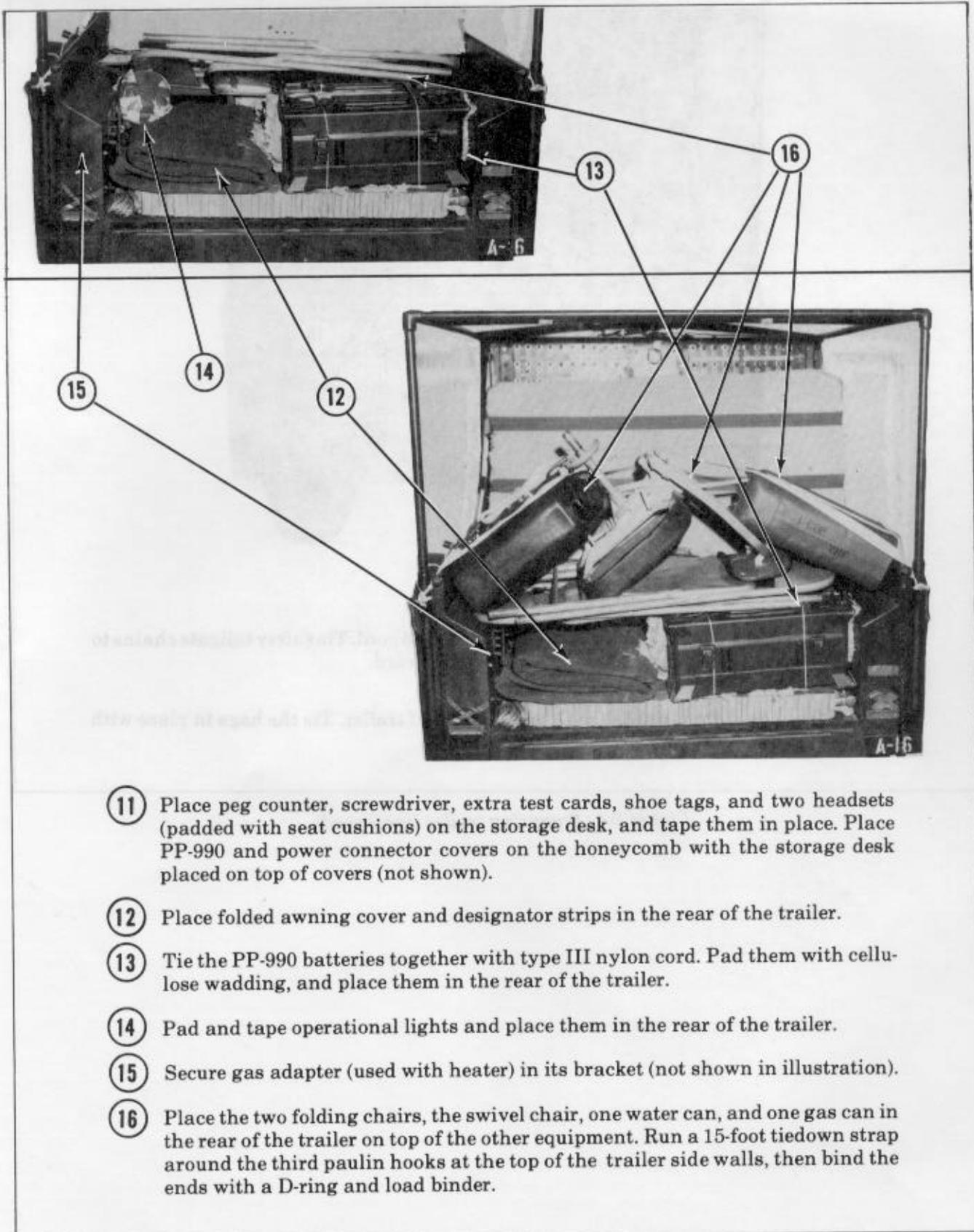


Figure 5-4. Preparing trailer (continued).



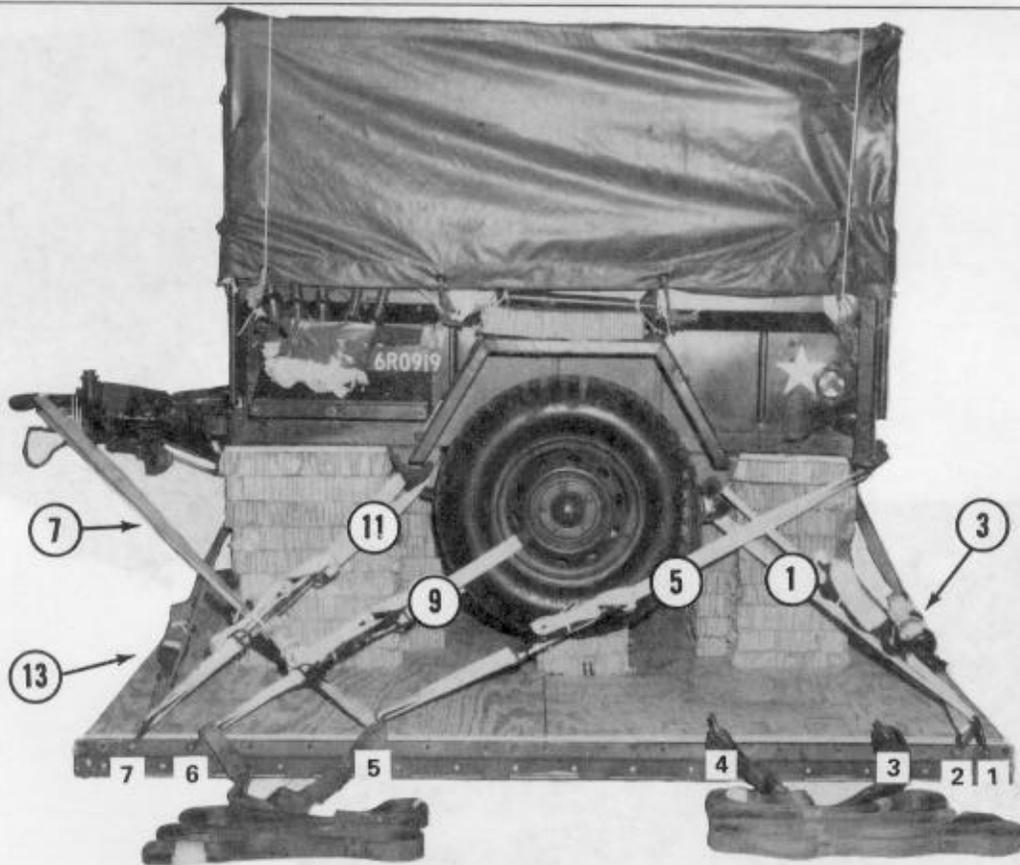
- ①7 Close the tailgate and tie it with type III nylon cord. Tie safety tailgate chains to the rear lifting shackles with type III nylon cord.
- ①8 Place operators' duffelbags (three) in rear of trailer. Tie the bags in place with type III nylon cord.

*Figure 5-4. Preparing trailer (continued).*



- ①9 Pad and tape telephone connecting cables.
- ②0 Tape one of the two grounding wires to the top of each fender.
- ②1 Place trailer top cover on the frame, and tie it in place with type III nylon cord.
- ②2 Remove rear support strut. Place a 6- by 18-inch piece of honeycomb on the fender, and tie it to the strut on the fender with type III nylon cord.
- ②3 Tie and tape safety chain and intervehicular cable to drawbar.

*Figure 5-4. Preparing trailer (continued).*



| Lashing No. | Clevis No. | Instructions                        |
|-------------|------------|-------------------------------------|
| 1           | 1          | Through left rear spring bracket    |
| 2           | 1A         | Through right rear spring bracket   |
| 3           | 2          | Through right rear lifting shackle  |
| 4           | 2A         | Through left rear lifting shackle   |
| 5           | 5          | Through left rear lifting shackle   |
| 6           | 5A         | Through right rear lifting shackle  |
| 7           | 5          | Through lunette                     |
| 8           | 5A         | Through lunette                     |
| 9           | 6          | Through left wheel                  |
| 10          | 6A         | Through right wheel                 |
| 11          | 7          | Through left front spring bracket   |
| 12          | 7A         | Through right front spring bracket  |
| 13          | 7          | Through right front lifting shackle |
| 14          | 7A         | Through left front lifting shackle  |

Figure 5-5. Lashings installed.

### 5-5. Positioning Trailer

Position the trailer on the honeycomb stacks with the rear of the trailer 12 inches from the front edge of the platform. Raise and lock the support leg. Tie it in place with type II nylon cord.

### 5-6. Installing Lashings

Use figure 5-5 as a guide, and lash the trailer to the platform.

### 5-7. Stowing Cargo Parachute

a. Build a parachute stowage platform as shown in figure 5-6.

b. Install the parachute stowage platform as shown in figure 5-7.

c. Prepare and stow one G-11A or G-11B cargo parachute as outlined in FM 10-500/TO 13C7-1-5.

### 5-8. Installing Extraction System

The extraction force transfer coupling (platform) (PEFTC) and the static line/connector strap (SL/CS) extraction system are authorized for use when this load is rigged. When the SL/CS system is used and the load is platform extracted, this system requires, in addition to the normal SL/CS items, two load tiedown clevises and two 9-foot (3-loop) slings which are bolted to the last clevis hole in each rail. FM 10-500/TO 13C7-1-5 gives procedures for installing both systems. Only the PEFTC is shown in this chapter. See figure 5-8 for details.

### 5-9. Safetying Suspension Slings

Safety the suspension slings as outlined in FM 10-500/TO 13C7-1-5. (Also see figure 5-8.)

### 5-10. Installing Release System

Prepare, attach, and safety an M-1 cargo parachute release according to FM 10-500/TO 13C7-1-5 and as shown in figure 5-9. If the M-1 release is not available, use one 5,000-pound-capacity cargo parachute release.

**Note:** Only the M-1 release is authorized for use with the G-11B. Prepare, attach, and safety the 5,000-pound release as outlined in FM 10-500/TO 13C7-1-5.

### 5-11. Positioning Extraction Parachute

a. *C-130 Aircraft.* Place an unreefed 15-foot cargo extraction parachute on the load for installation in the aircraft.

b. *C-141A Aircraft.* Place a reefed 15-foot cargo extraction parachute on the load for installation in the aircraft. The extraction parachute must be equipped with a 120-foot (1-loop) type X nylon extraction line. Form the 120-foot extraction line as outlined in FM 10-500/TO 13C7-1-5.

c. *C-141B Aircraft.* Place a reefed 15-foot cargo extraction parachute, a 36-inch adapter web, and a continuous 160-foot (1-loop) type XXVI nylon webbing extraction line on the aircraft. DO NOT use shorter lines to form the 160-foot line.

### 5-12. Marking Rigged Load

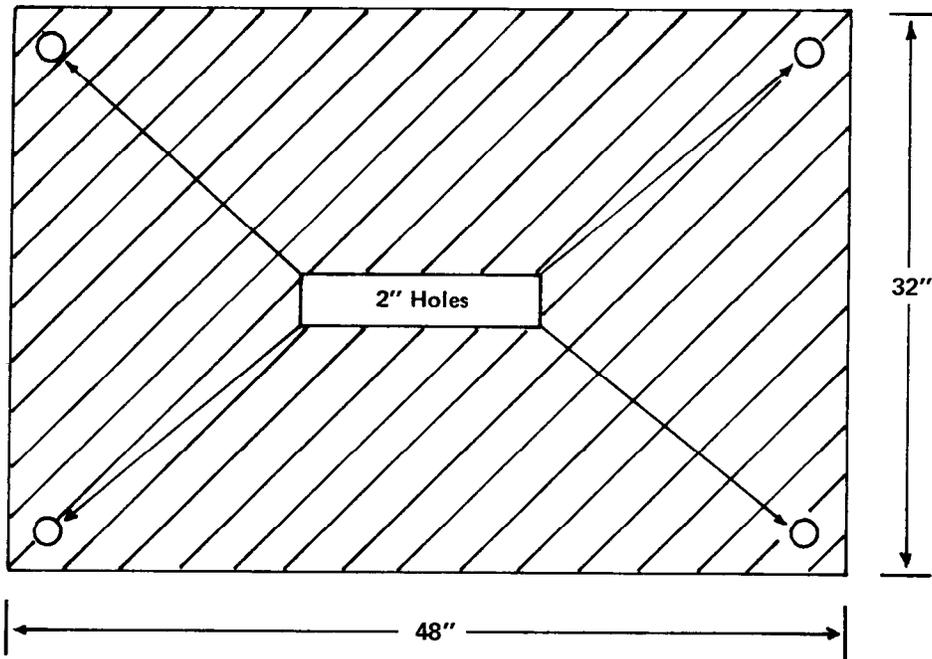
Mark the rigged load according to FM 10-500/TO 13C7-1-5 and as shown in figure 5-9.

### 5-13. Equipment Required

The equipment listed in table 2-1 is used to rig this load.

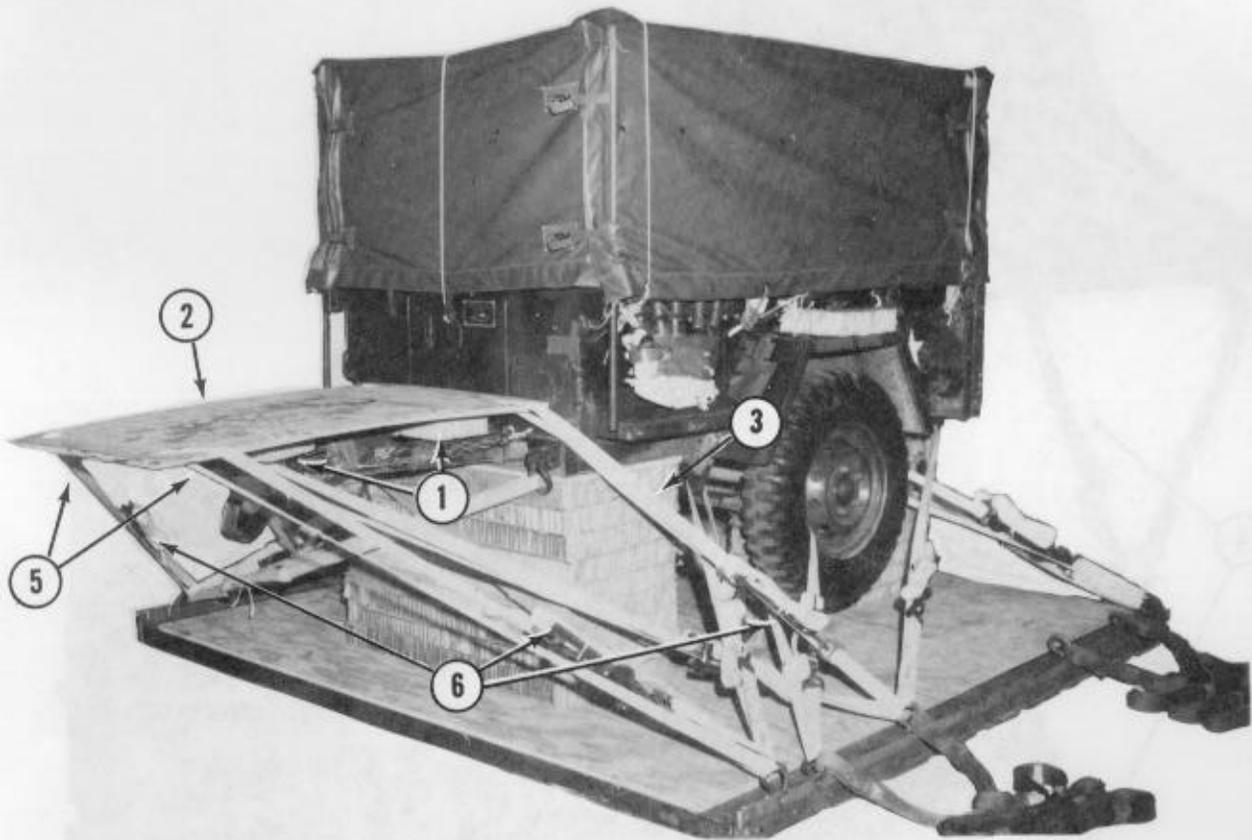
**Materials:** One 3/4- x 32- x 48-inch piece of plywood.

**Steps:** Make four holes, 2 inches in from the edges.



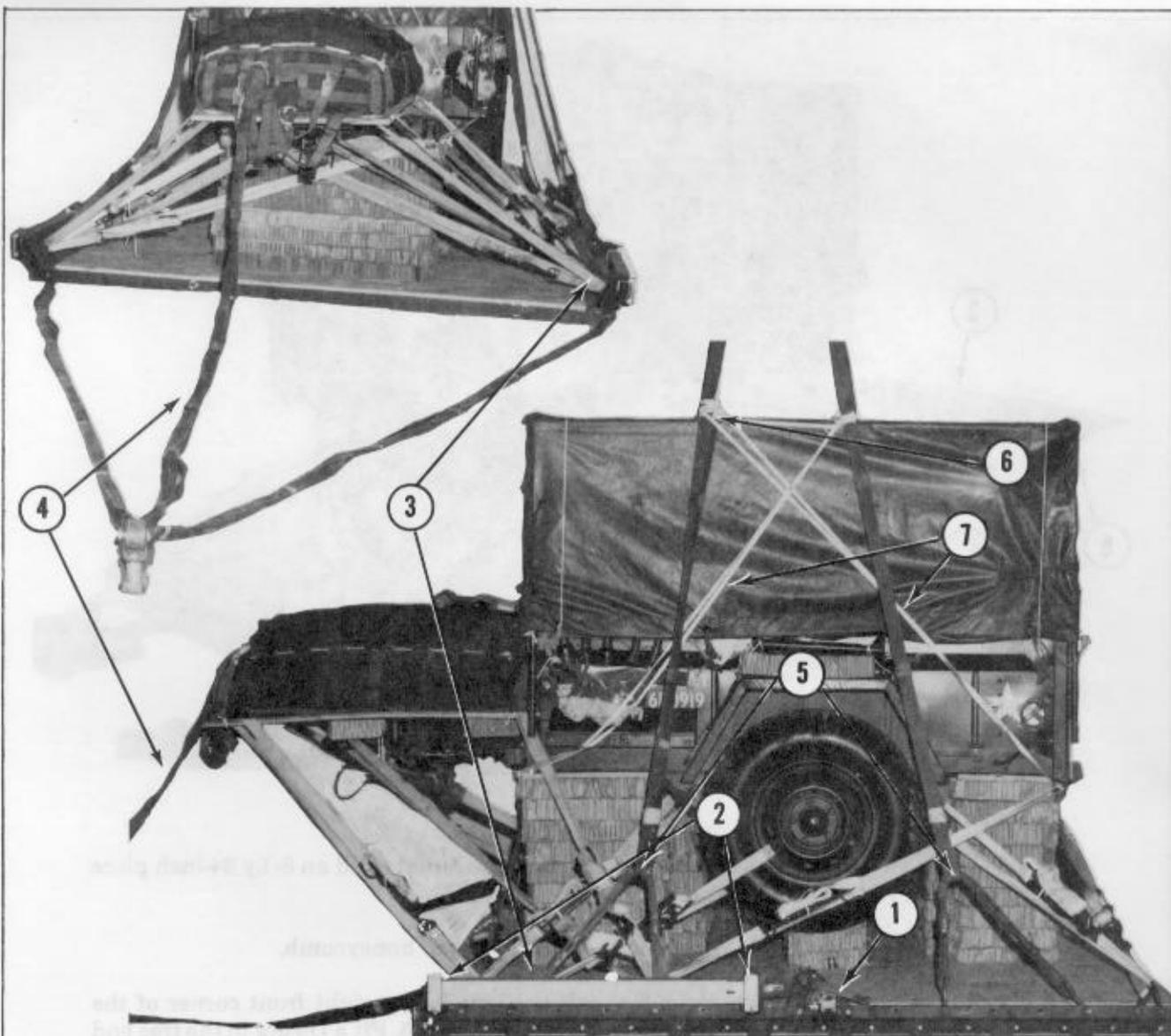
**Note:** Not drawn to scale

*Figure 5-6. Parachute stowage platform, construction details.*



- ① Place a 6- by 6-inch piece of honeycomb on the lunette and an 8- by 24-inch piece of honeycomb across the drawbars.
- ② Place the plywood platform on top of the pieces of honeycomb.
- ③ Run a 15-foot tiedown strap through the hole in the right front corner of the stowage platform and through load tiedown clevis 5. Fit a D-ring to the free end of the strap, and bind the D-rings together with a load binder.
- ④ Run a second strap through the left front hole and clevis 5A as in 3 above (not shown).
- ⑤ Run two more straps through the rear holes and clevis 7 and 7A as in 3 above.
- ⑥ Pull each strap taut and close each binder. Fold the excess strap and tie the folds to the binder with 80-pound cotton webbing.

*Figure 5-7. Stowage platform secured.*



- ① Bolt a PEFTC actuator to the 8th and 9th clevis holes in each rail.
- ② Bolt a guidance tube bracket to the 10th and 17th clevis holes in each rail.
- ③ Bolt four guidance tubes to their brackets.
- ④ Use a 16-foot (3-loop) sling as the deployment line.
- ⑤ Extend the slings and tape the 12-foot slings to the 3-foot slings.
- ⑥ Safety the slings with a deadman tie as outlined in FM 10-500/TO 13C7-1-5.
- ⑦ Tie each set of slings to the trailer with lengths of doubled 1/2-inch tubular nylon webbing.

Figure 5-8. PEFTC installed and slings safetied.

**Caution:** The rigged load **MUST** be given a complete final inspection by a qualified parachute rigger before the load leaves the rigging site.



|   |              |
|---|--------------|
| Weight .....  | 2,580 pounds |
| Height .....  | 78 inches    |
| Width .....   | 108 inches   |
| Length .....  | 132 inches   |
| Overhang: Rear .....                                  | 36 inches    |
| Center of Balance (from front edge of platform) ..... | 52 inches    |
| Extraction System (shown) .....                       | .PEFTC       |

*Figure 5-9. Rigged load.*

Table 5-1. Equipment required for rigging trailer with AN/MTC-10 telephone control office group.

| National Stock No. | Item   | Quantity   |
|--------------------|--|--|
| 1670-00-753-3928   | Pad, energy-dissipating honeycomb,<br>3- by 36- by 96-in:<br>6- by 6-in<br>6- by 18-in<br>8- by 12-in<br>8- by 24-in<br>24- by 36-in<br>24- by 41-in<br>24- by 48-in<br>28- by 36-in | 8 sheets<br>1<br>1<br>12<br>1<br>1<br>18<br>1<br>1 |
| 5530-00-128-4981   | Plywood, 3/4-in:<br>8- by 12-in<br>24- by 41-in<br>32- by 48-in<br>48- by 48-in  | 3 sheets<br>2<br>2<br>1<br>2                       |
| 1670-00-823-5041   | Sling, cargo, A/D<br>12-ft (3-loop)  | 4  |
| 1670-00-937-0271   | Tiedown Assembly, 10,000-lb<br>Binder, load<br>D-ring, 10,000-lb<br>Strap, 15-ft   | 16<br>(16)<br>(16)                                 |