### Temporary Trailer Requirements for In-Situ Soil or Welded Tuff

**Table: Trailer Length (Refer to Table)**

<table>
<thead>
<tr>
<th>Trailer Size</th>
<th>Total Anchors Long Side</th>
<th>Total Anchors Short Side</th>
<th>Total No. of Piers</th>
<th>No. Piers Per Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHT#</td>
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<tr>
<td>10</td>
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<td>20</td>
<td>10</td>
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<tr>
<td>12</td>
<td>12</td>
<td>12</td>
<td>24</td>
<td>12</td>
</tr>
</tbody>
</table>

**Notes on Foundation Plan**

- **Vertical Anchor Option**
- **In-Line Anchor Option**

**Design Criteria:**

1. Basis of Design: Calculated per HUD Code 3280.306(f) and 3285.402(b2), 3/7/2012.
2. Piers and ground anchor locations and spacing are based on guidelines developed by the Manufactured Housing Research Alliance.
3. TIE DOWN ENGINEERING (WWW.TIEDOWN.COM) OR APPROVED EQUAL GROUND ANCHORS MAY BE VERTICAL OR IN-LINE ANCHORS AND MUST BE CAPABLE OF PROVIDING A SAFE LATERAL WORKING LOAD OF 3150 LBS AT EACH ANCHOR LOCATION. ANCHOR STRAPING MUST COMPLY WITH THE LASH Code AS REFERENCED IN PART 3286 OF THE MANUFACTURED HOME CONSTRUCTION AND SAFETY STANDARDS. A GAP OF NO MORE THAN 31/2" BETWEEN THE TIE DOWN AND THE TRAILER FRAME IS RECOMMENDED TO ENSURE THE STRAP IS SECURED TO THE TRAILER FRAME AND NOT THE FRAME AND THE FOUNDATION.
4. The allowable soil bearing capacity must be determined for each individual site. The pier and pad spacing requirements tabulated on this drawing are for 1500 PSF and 100 PSF soil bearing capacities. Assume 1500 PSF soil bearing capacity for this drawing unless otherwise indicated. Manufactured temporary office shall be placed on a minimum of two feet of base course material compacted to 95% of maximum density.
5. Anchors must be separated by a minimum of 6'-0" in any direction.
6. The edge of the top edge of the trailer must be in the same plane. The allowable lateral load may cause a decrease in wind speed. For trailers located in these areas, consult wind exposure for further analysis.

**Construction Criteria:**

1. Fresh/Graded under pads must be thoroughly and evenly compacted. Maximum pad deflection shall be 5%.
2. Place elastomeric pad with grid side up and smooth side down.
3. Center steel pier support on elastomeric pad and ensure that tie straps are tight.

**Notes for Field:**

- Provide pier spacing.
- Applicable to single wide temporary trailer, standardized anchors are sufficient for wind load alone, and seismic does not control the loading.
- Construction of the trailer assumed to be of light framed walls with shears panel of other materials.
- Trailer must be designed/modified to meet LAM's requirements, especially as chapters 4 & 6.
- Submit information on anchorage capacity and installation for approval prior to construction.

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**Foundation Support System for Temporary Trailers**

- **Single Wide Trailer Requirements for In-Situ Soil or Welded Tuff**
- **Foundation Plan and Anchor Details**

**Fabrication:**

- Foundation Plan and Anchor Details
- Drawn for ML-4 Installations

**Engineer:**

- Doug Volkman

**Drawing Development:**

- Foundation Plan and Anchor Details
- Updated Table to correct errors
- TO CAD Manual Rev#5 format

**Los Alamos, New Mexico 87545**

- P.O. Box 1663

**ST-1052-1**

- STANDARDS MANAGER: TOBIN ORUCH

**Date:**

- 3-7-12

**Scale:**

- Foundation Plan and Anchor Details

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**Fabrication:**

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- Drawn for ML-4 Installations
- Updated Table to correct errors
- TO CAD Manual Rev#5 format

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