If gage of track is increased, the flangeway is correspondingly increased.

- Gage line of frog to face of guard rail must be 4½"-
  - 6½", except where curvature through the turnout lead exceeds 8°-00
  - then the distance must be 4½"-
  - 6½" REGARDLESS of TRACK SAGE.

If track gage is increased, the flangeway is correspondingly increased.

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**STRAIGHT PORTION OF GUARDING FACE AHEAD OF 1/2" POINT OF FROG**

<table>
<thead>
<tr>
<th>FROG NO.</th>
<th>GUARD RAIL LENGTH</th>
<th>DESIRED SETTING</th>
<th>SAFETY MINIMUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 &amp; 10</td>
<td>9°-0°</td>
<td>2°-0°</td>
<td>5°-6°</td>
</tr>
<tr>
<td>15 &amp; 20</td>
<td>13°-0°</td>
<td>4°-0°</td>
<td>5°-6°</td>
</tr>
<tr>
<td>6 Thru 18</td>
<td>Any</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>20</td>
<td>Any</td>
<td>—</td>
<td>22°</td>
</tr>
</tbody>
</table>

**NOTES**

1. Guard rails must conform to Conrail Specifications for Hook Flange Guard Rails.
2. Each tie bearing portion of the guard rails must be fully supported by a tie, which shall be kept well tamped at all times.
3. For details of guard rail see C.R. Plan 71810-11.
4. Parker Screws on the back of the guard rail indicate the extent of the straight portion of the guarding face.
5. No. 8 and No. 10 turnouts use 9°-0° guard rails installed on 6 ties.
6. No. 15 and No. 20 turnouts use 13°-0° guard rails installed on 8 ties.
7. Minimum safe straight guarding portion of the guard rail ahead of the frog point for No. 6 thru No. 18 frogs is 22° and for a No. 20 frog is 36°.

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**CONRAIL 71801-A**

**GUARD RAIL INSTALLATION AND MAINTENANCE**

JULY, 1979

[Signatures]