### Table of Dimensions for Panels Not Illustrated

<table>
<thead>
<tr>
<th>Description</th>
<th>Dimensions (in)</th>
<th>Lens Type</th>
<th>Backing Zees</th>
</tr>
</thead>
<tbody>
<tr>
<td>48&quot; 5-Panel Circle Panel (●)</td>
<td>X &amp; Y: 20 &amp; 20</td>
<td>3&quot; Yellow</td>
<td>10&quot;</td>
</tr>
<tr>
<td>48&quot; 5-Panel Circle Panel (●)</td>
<td>X: 18 &amp; Y: 18</td>
<td>3&quot; Yellow</td>
<td>20&quot;</td>
</tr>
<tr>
<td>48&quot; Panel (●)</td>
<td>X: 9 &amp; Y: 9</td>
<td>3&quot; Yellow</td>
<td>10&quot;</td>
</tr>
<tr>
<td>48&quot; Panel (●)</td>
<td>X: 12 &amp; Y: 12</td>
<td>3&quot; Yellow</td>
<td>10&quot;</td>
</tr>
<tr>
<td>48&quot; 4-Panel Rectangular Panel (●)</td>
<td>X: 12 &amp; Y: 12</td>
<td>3&quot; Yellow</td>
<td>10&quot;</td>
</tr>
</tbody>
</table>

### Typical Elevation Facing Traffic

#### Typical Panel Attachment Details

#### Typical Sign Placement

### General Notes

1. All sign panels used on flashing beacons are Class II and shall be fabricated in accordance with:
   - Panels shall be single sheet aluminum 0.025 minimum thickness.
   - Backing zees are 3 in. by 3 in., 1.25 in. by 1.25 in. by 0.025 in. for all backing materials.
   - All signs shall be fabricated by non-refractory electrical circuitry conducting to allow them to be described in the standard publications and/or all shown in the plans.
   - Panels, brackets, nuts, and metal washers shall be galvanized.

2. For installation design, the dimensions shall be fabricated in accordance with:
   - Steel pipe for mount flanges and break-nail plates shall conform to the American Society for Testing and Materials (ASTM) specifications or equivalent.
   - Backing zees shall be fabricated of carbon fiber.
   - Backing zees shall be drilled and cut with the precision of the desired shape.

3. Concrete fittings for flashing beacon installations shall conform to "National Conformity of Structural Concrete" guidelines.

### Lateral Placement ("A")

- Normal lateral placement "A" for warning signs is 3 ft (0.91 m) on the edge of the travel path.

- Normal lateral placement "A" for regulatory signs is 4.5 ft (1.37 m) on the edge of the travel path.

- The "A" shall be considered the edge of the curb face to derive the vertical elevation of the sign supporting structure.

- Refer to Colorado Standard Plan S-614-1 for vertical placement requirements.
GENERAL NOTES
1. Poles and pedestal must be designed to meet the requirements outlined in the Standard Specifications for Structural Supports for Highway Signs (AASHTO) and Traffic Signals. Poles shall be assembled for wind velocities of 100 mph.

DESIGN DATA
The design herein assume that flashing beacon are installed within the roadway within the following soil parameters:
- Soil density = 60 lb/ft³
- Soil cohesion = 125 psi
- Soil shear = 30°
- Soakage factor = 0.6

Contact the engineer if the flashing beacon will not be installed within the roadway per 2 or any of the following soil conditions are encountered during boring:
- Soft, weak, organic soil
- Water tables within 6 ft of the surface
- Soils that have significant voids
- Soils that experience heave

FOOTING DESIGN
The footing design is based on 220 psi minimum load and is 4 x 10 x 10 in. Diamond sign panel mounted 0 ft above the ground with a 0-1/2 in to 0-1/4 in rectangular plate connection. A flashing beacon is placed adjacent to a sign configuration. The footing design is proposed that exceeds these dimensions. The footing design shall be engineered and sized and sealed by a professional engineer registered in the State of Colorado.

FOOTING NOTES
- Use 10d nails
- Use square nails
- Use 10d nails
- Use 4 in. non-reinforcement shear anchor fastener
- Schedule BS pipe for non-mid, 30 in. min. depth under roadways
- Concrete slab from full box to pole
- Reinforcement of 1/2 x 1/2 in. steel

DIRECTORY
- Install anchor bolts furnished with pile per manufacturer's template print (furnished with steel)
- Minimum overlap of 1/2 in.
- 1/2 in. clearance for holes
- Full box

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