# Pile Design Data Form (GGL)

## 1 Foundation Testing

**Anomaly Overview**

- **Testing Performed:**
  - X GGL
  - □ CSL

### Shaft Diameter:
8 ft

### Cutoff Elev.:
- ▼ A:
  - -29 ft
- ▲ B:
  - -65 ft to -67 ft

### Tip Elev.:
- -113 ft

### Anomaly Description

**Section A-A:**
- Anomaly detected in one (1) GGL inspection tube. May affect up to 12.5% of Shaft cross-section at this location.

**Section B-B:**
- Anomalies detected in two (2) GGL inspection tubes. May affect up to 25% of Shaft cross-section at this location.

## 2 Geotechnical

**Required Nominal Resistance of Shaft (per contract plans)**

- Compression:________ kips
- Tension:________ kips

**Lowest Estimated Groundwater Elevation:**

**Remaining Required Nominal Resistance To Be Developed Below Each Anomalous Section:**

<table>
<thead>
<tr>
<th>Section</th>
<th>Compression</th>
<th>Tension</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-B</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Soil and/or Rock Type:**

**Shaft is geotechnically Acceptable**

**Shaft is geotechnically Unacceptable**

**Comments:**

## 3 Structural

**As-Designed Capacity of Shaft**

<table>
<thead>
<tr>
<th>Section</th>
<th>Shear</th>
<th>Moment</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-A</td>
<td>1355 kips</td>
<td>23224 kip-ft</td>
</tr>
<tr>
<td>B-B</td>
<td>1355 kips</td>
<td>23224 kip-ft</td>
</tr>
</tbody>
</table>

**Maximum Demand of Shaft at Section A-A**

- Shear: 813 kips
- Moment: 21500 kip-ft

**Shaft is structurally Acceptable**

**Shaft is structurally Unacceptable**

**Comments:**

## 4 Corrosion

**Consideration is**

- □ Required
- □ Not required

**Corrosion Potential at Section A-A:**

**Corrosion Potential at Section B-B:**

- For anomalies between the top of pile and 3 feet below the lowest estimated groundwater level at the site, corrosion results listed in the Geotechnical report are used to assess the need for repair. For situations where results are not available, soil samples may be obtained adjacent to the anomaly and tested in accordance with California Test (CT) 643 (Parts 2, 3 and 4) and if necessary, CT 417 and CT 422 to determine soil corrosivity. For anomalies outside these limits, and where no stray current source can be identified, or for non-corrosive soil conditions, no consideration of corrosion potential is required.

## 5 Construction

**Sec. A-A is:**

- □ Acceptable with Administrative Deduction
- □ Unacceptable, Mitigation is Required

**Sec. B-B is:**

- □ Acceptable with Administrative Deduction
- □ Unacceptable, Mitigation is Required

<table>
<thead>
<tr>
<th>Bridge:</th>
<th>Bridge No.:</th>
</tr>
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<tbody>
<tr>
<td></td>
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<table>
<thead>
<tr>
<th>Dist-Co.-Route:</th>
<th>EA:</th>
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<tbody>
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<table>
<thead>
<tr>
<th>Structure Rep.:</th>
<th>Phone:</th>
<th>Abt./Bent:</th>
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<tbody>
<tr>
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<table>
<thead>
<tr>
<th>Pile:</th>
<th>Fax:</th>
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**3-7** Pile Design Data Form (GGL) - Attachment 3

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**MEMO TO DESIGNERS • APRIL 2012**

**ATTACHMENT 3**