3-7 PILE DESIGN DATA FORM (GGL)

1 Foundation Testing

Name: **GS-FTB**
Phone:
Date:

Anomaly Overview

Testing Performed **X** GGL ☐ CSL

Shaft Diameter: 8 ft

Cutoff Elev: -29 ft

A____ A

B____ B

Tip Elev.: -113 ft

Section A-A

Elev.: -32 ft to -34 ft
Up to 12.5% Affected

Section B-B

Elev.: -65 ft to -67 ft
Up to 25% Affected

Anomaly Description

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

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

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2 Geotechnical

Name: **GS**
Phone:
Date:

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:

Section A-A: Compression_____Tension_____kips
Soil and/or Rock Type: _____
Shaft is geotechnically   Acceptable   Unacceptable

Section B-B: Compression_____Tension_____kips
Soil and/or Rock Type: _____
Shaft is geotechnically   Acceptable   Unacceptable

Comments:_____

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3 Structural

Name: **SD**
Phone:
Date:

As-Designed Capacity of Shaft

Section A-A: Shear: 1355 kips   Moment: 23224 kip-ft
Section B-B: Shear: 1355 kips   Moment: 23224 kip-ft

Maximum Demand of Shaft at Section A-A
Shear: 813 kips   Moment: 21500 kip-ft
Shaft is structurally ☐ Acceptable X Unacceptable

Maximum Demand of Shaft at Section B-B
Shear: 913 kips   Moment: 13700 kip-ft
Shaft is structurally X Acceptable   Unacceptable

Comments:_____

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4 Corrosion

Name: **METS**
Phone: Date:

Consideration is   ☐ Required   ☐ Not required

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.

Corrosion Potential at Section A-A:_____

Corrosion Potential at Section B-B:_____

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5 Construction   Considering parts 2-4 of this form,

Structure Rep.: **SC**
Phone: Date:

Sec. A-A is: ☐ Acceptable with Administrative Deduction   ☐ Unacceptable, Mitigation is Required

Sec. B-B is: ☐ Acceptable with Administrative Deduction   ☐ Unacceptable, Mitigation is Required

Bridge: Bridge No.:   Abt./Bent:
Dist-Co.-Route: EA: Pile:
Structure Rep.:   Phone: Fax: