

## Forest Lakes Bridges

Report Date: Aug 25, 2021

Work Order No.: 21-8536.ReinforcingSteel.0001; ver: 1

Work Order Date: Aug 20, 2021

Reviewed by: Josiah Johnson

### Reinforcing Steel

General Contractor: Structures, Inc.

Performed by: Mitch Black

Installation Contractor: Structures, Inc.

Documents Used: Structural Plans,

Placement Location: West bridge footer

### Placement Area

	Conforms	Does Not Conform	Not Applicable	Not Observed
Placement Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formwork, Falsework, and Void Forms:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction Joints:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Reinforcement

Surface Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type, Grade, and Size:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile and Quantity:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spacing and Clearances:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bends, Hooks, Spirals, Stirrups, and Ties:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Splices

Lap Splices:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Connections

Dowels:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Embedded Items and Anchor Bolts:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### On-Site Notifications

Name	Company
Larry Urioste	Structures, Inc.

Results apply only to the specific items and locations referenced and at the time of testing, observations or special inspections. This report should not be reproduced, except in full, without the written permission of GROUND Engineering Consultants, Inc.

### **Forest Lakes Bridges**

Report Date: Aug 25, 2021

Work Order Date: Aug 20, 2021

Work Order No.: 21-8536.ReinforcingSteel.0001; ver: 1

Reviewed by: Josiah Johnson

#### **Reinforcing Steel**

#### **Photos**



### Forest Lakes Bridges

Report Date: Aug 25, 2021

Work Order No.: 21-8536.ReinforcingSteel.0002; ver: 1

Work Order Date: Aug 23, 2021

Reviewed by: Josiah Johnson

#### Reinforcing Steel

General Contractor: Structures Inc

Performed by: Greg Davies

Installation Contractor: Structures Inc

Documents Used: Structural Plans,

Placement Location: East bridge footer

#### Placement Area

	Conforms	Does Not Conform	Not Applicable	Not Observed
Placement Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formwork, Falsework, and Void Forms:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction Joints:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### Reinforcement

Surface Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type, Grade, and Size:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile and Quantity:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spacing and Clearances:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bends, Hooks, Spirals, Stirrups, and Ties:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Splices

Lap Splices:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### Connections

Dowels:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Embedded Items and Anchor Bolts:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### On-Site Notifications

Name	Company
Larry Urioste	Structures Inc

## Forest Lakes Bridges

Report Date: Aug 25, 2021

Work Order Date: Aug 23, 2021

Work Order No.: 21-8536.ReinforcingSteel.0002; ver: 1

Reviewed by: Josiah Johnson

### Reinforcing Steel

#### Photos



Reinforcing steel

### Forest Lakes Bridges

Report Date: Aug 31, 2021

Work Order No.: 21-8536.ReinforcingSteel.0003; ver: 1

Work Order Date: Aug 26, 2021

Reviewed by: Josiah Johnson

#### Reinforcing Steel

General Contractor: Structures, Inc

Performed by: Greg Davies

Installation Contractor: Structures, Inc

Documents Used: Structural Plans,

Placement Location: Caisson cages

#### Placement Area

	Conforms	Does Not Conform	Not Applicable	Not Observed
Placement Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formwork, Falsework, and Void Forms:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction Joints:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### Reinforcement

	Conforms	Does Not Conform	Not Applicable	Not Observed
Surface Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type, Grade, and Size:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile and Quantity:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spacing and Clearances:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bends, Hooks, Spirals, Stirrups, and Ties:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Splices

	Conforms	Does Not Conform	Not Applicable	Not Observed
Lap Splices:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### Connections

	Conforms	Does Not Conform	Not Applicable	Not Observed
Dowels:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Embedded Items and Anchor Bolts:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### On-Site Notifications

Name	Company
Larry Urioste	Structures, Inc

## Forest Lakes Bridges

Report Date: Aug 31, 2021

Work Order No.: 21-8536.ReinforcingSteel.0003; ver: 1

Work Order Date: Aug 26, 2021

Reviewed by: Josiah Johnson

### Reinforcing Steel

#### Photos



Rebar cage

### Forest Lakes Bridges

Report Date: Aug 31, 2021

Work Order No.: 21-8536.ReinforcingSteel.0004; ver: 1

Work Order Date: Aug 27, 2021

Reviewed by: Josiah Johnson

#### Reinforcing Steel

General Contractor: Structures, Inc

Performed by: Greg Davies

Installation Contractor: Structures, Inc

Documents Used: Structural Plans,

Placement Location: Rebar cages for caissons

#### Placement Area

	Conforms	Does Not Conform	Not Applicable	Not Observed
Placement Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formwork, Falsework, and Void Forms:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction Joints:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### Reinforcement

Surface Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type, Grade, and Size:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile and Quantity:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spacing and Clearances:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bends, Hooks, Spirals, Stirrups, and Ties:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Splices

Lap Splices:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### Connections

Dowels:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Embedded Items and Anchor Bolts:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Forest Lakes Bridges

Report Date: Aug 31, 2021

Work Order No.: 21-8536.ReinforcingSteel.0004; ver: 1

Work Order Date: Aug 27, 2021

Reviewed by: Josiah Johnson

### Reinforcing Steel

#### Photos



Reinforcement for caissons

## Forest Lakes Bridges

Report Date: Aug 31, 2021

Work Order No.: 21-8536.ReinforcingSteel.0005; ver: 1

Work Order Date: Aug 30, 2021

Reviewed by: Josiah Johnson

### Reinforcing Steel

General Contractor: Structures, Inc

Performed by: Greg Davies

Installation Contractor: Structures, Inc

Documents Used: Structural Plans,

Placement Location: Rebar cages for EB caissons

### Placement Area

	Conforms	Does Not Conform	Not Applicable	Not Observed
Placement Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formwork, Falsework, and Void Forms:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction Joints:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Reinforcement

	Conforms	Does Not Conform	Not Applicable	Not Observed
Surface Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type, Grade, and Size:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile and Quantity:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spacing and Clearances:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bends, Hooks, Spirals, Stirrups, and Ties:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Splices

	Conforms	Does Not Conform	Not Applicable	Not Observed
Lap Splices:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Connections

	Conforms	Does Not Conform	Not Applicable	Not Observed
Dowels:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Embedded Items and Anchor Bolts:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### On-Site Notifications

Name	Company
Larry Urioste	Structures, Inc

## Forest Lakes Bridges

Report Date: Aug 31, 2021

Work Order No.: 21-8536.ReinforcingSteel.0005; ver: 1

Work Order Date: Aug 30, 2021

Reviewed by: Josiah Johnson

### Reinforcing Steel

#### Photos



Rebar cage preparation

## Forest Lakes Bridges

Report Date: Sep 8, 2021

Work Order No.: 21-8536.ReinforcingSteel.0006; ver: 1

Work Order Date: Sep 3, 2021

Reviewed by: Josiah Johnson

### Reinforcing Steel

General Contractor: Structures, Inc

Performed by: Greg Davies

Installation Contractor: Structures, Inc

Documents Used: Structural Plans,

Placement Location: Abutment 3A and 3B

Comments: Anchor bolts and concrete forms were not in place when GROUND arrived on site, will be placed before concrete placement. Final inspection to be scheduled by contractor

### Placement Area

	Conforms	Does Not Conform	Not Applicable	Not Observed
Placement Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formwork, Falsework, and Void Forms:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction Joints:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Reinforcement

Surface Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type, Grade, and Size:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile and Quantity:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spacing and Clearances:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bends, Hooks, Spirals, Stirrups, and Ties:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Splices

Lap Splices:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Connections

Dowels:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Embedded Items and Anchor Bolts:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Conformance Comments

Partial inspection, final inspection will be performed after contractor schedules it

### On-Site Notifications

Name	Company
Larry Urioste	Structures, Inc

## Forest Lakes Bridges

Report Date: Sep 8, 2021

Work Order Date: Sep 3, 2021

Work Order No.: 21-8536.ReinforcingSteel.0006; ver: 1

Reviewed by: Josiah Johnson

### Reinforcing Steel

#### Photos



Rebar

## Forest Lakes Bridges

Report Date: Sep 16, 2021

Work Order No.: 21-8536.ReinforcingSteel.0008; ver: 1

Work Order Date: Sep 13, 2021

Reviewed by: Josiah Johnson

### Reinforcing Steel

General Contractor: Structures Inc

Performed by: Greg Davies

Installation Contractor: Structures Inc

Documents Used: Structural Plans,

Placement Location: Abutments

Comments: Rebar on East abutment was inspected previously but forms were not in place at the time. Forms, embedded items, and placement condition were inspected on 9/13 prior to pour and found to be in compliance. West abutment had rebar cage in place but no forms or embeds. These elements should be re-inspected prior to concrete placement.

### Placement Area

	Conforms	Does Not Conform	Not Applicable	Not Observed
Placement Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formwork, Falsework, and Void Forms:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction Joints:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Reinforcement

Surface Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type, Grade, and Size:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile and Quantity:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spacing and Clearances:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bends, Hooks, Spirals, Stirrups, and Ties:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Splices

Lap Splices:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Connections

Dowels:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Embedded Items and Anchor Bolts:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### On-Site Notifications

Name	Company
Larry Urioste	Structures Inc

## Forest Lakes Bridges

Report Date: Sep 16, 2021

Work Order Date: Sep 13, 2021

Work Order No.: 21-8536.ReinforcingSteel.0008; ver: 1

Reviewed by: Josiah Johnson

### Reinforcing Steel

#### Photos



West abutment rebar



East abutment forms and embedded anchor bolts

### Forest Lakes Bridges

Report Date: Sep 20, 2021

Work Order No.: 21-8536.ReinforcingSteel.0009; ver: 1

Work Order Date: Sep 16, 2021

Reviewed by: Josiah Johnson

#### Reinforcing Steel

General Contractor: Structures Inc

Performed by: Greg Davies

Installation Contractor: Structures Inc

Documents Used: Structural Plans,

Placement Location: Column reinforcement for piers 1 through 3

#### Placement Area

	Conforms	Does Not Conform	Not Applicable	Not Observed
Placement Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formwork, Falsework, and Void Forms:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction Joints:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### Reinforcement

Surface Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type, Grade, and Size:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile and Quantity:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spacing and Clearances:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bends, Hooks, Spirals, Stirrups, and Ties:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Splices

Lap Splices:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### Connections

Dowels:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Embedded Items and Anchor Bolts:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### On-Site Notifications

Name	Company
Larry Urioste	Structures Inc

## Forest Lakes Bridges

Report Date: Sep 20, 2021

Work Order Date: Sep 16, 2021

Work Order No.: 21-8536.ReinforcingSteel.0009; ver: 1

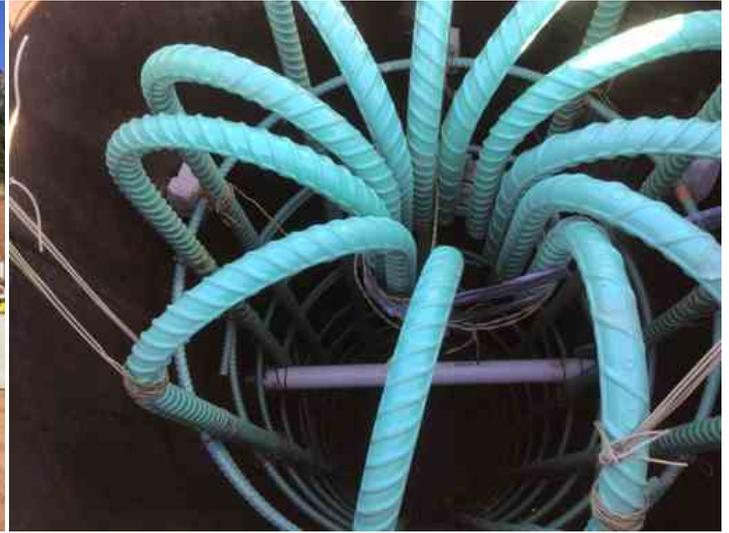
Reviewed by: Josiah Johnson

### Reinforcing Steel

#### Photos



Exterior view



Interior view



Rebar cages

Results apply only to the specific items and locations referenced and at the time of testing, observations or special inspections. This report should not be reproduced, except in full, without the written permission of GROUND Engineering Consultants, Inc.

### Forest Lakes Bridges

Report Date: Sep 28, 2021

Work Order No.: 21-8536.ReinforcingSteel.0010; ver: 1

Work Order Date: Sep 22, 2021

Reviewed by: Josiah Johnson

#### Reinforcing Steel

General Contractor: Structures Inc

Performed by: Greg Davies

Installation Contractor: Structures Inc

Documents Used: Structural Plans,

Placement Location: West abutment

Comments: Rebar cage for west abutment was observed on previous site visit before forms and embedded items were placed and was found to be in conformance. Embeds, forms, and placement condition were observed and found to be in conformance on 9/22.

#### Placement Area

	Conforms	Does Not Conform	Not Applicable	Not Observed
Placement Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formwork, Falsework, and Void Forms:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction Joints:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### Reinforcement

	Conforms	Does Not Conform	Not Applicable	Not Observed
Surface Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type, Grade, and Size:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile and Quantity:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spacing and Clearances:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bends, Hooks, Spirals, Stirrups, and Ties:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Splices

	Conforms	Does Not Conform	Not Applicable	Not Observed
Lap Splices:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### Connections

	Conforms	Does Not Conform	Not Applicable	Not Observed
Dowels:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Embedded Items and Anchor Bolts:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### On-Site Notifications

Name	Company
Larry Urioste	Structures Inc

## Forest Lakes Bridges

Report Date: Sep 28, 2021

Work Order Date: Sep 22, 2021

Work Order No.: 21-8536.ReinforcingSteel.0010; ver: 1

Reviewed by: Josiah Johnson

### Reinforcing Steel

#### Photos



Rebar cage and embeds



West abutment

### Forest Lakes Bridges

Report Date: Oct 4, 2021

Work Order No.: 21-8536.ReinforcingSteel.0011; ver: 1

Work Order Date: Oct 1, 2021

Reviewed by: Josiah Johnson

#### Reinforcing Steel

General Contractor: Structures Inc

Performed by: Greg Davies

Installation Contractor: Structures Inc

Documents Used: Structural Plans,

Placement Location: Column reinforcement for piers 4 through 6

Comments: GROUND inspected rebar cages on previous site visit prior to positioning and placement of forms. Lap splicing and form placement and condition was inspected on 10/1.

#### Placement Area

	Conforms	Does Not Conform	Not Applicable	Not Observed
Placement Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formwork, Falsework, and Void Forms:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction Joints:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### Reinforcement

	Conforms	Does Not Conform	Not Applicable	Not Observed
Surface Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type, Grade, and Size:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile and Quantity:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spacing and Clearances:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bends, Hooks, Spirals, Stirrups, and Ties:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Splices

	Conforms	Does Not Conform	Not Applicable	Not Observed
Lap Splices:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### Connections

	Conforms	Does Not Conform	Not Applicable	Not Observed
Dowels:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Embedded Items and Anchor Bolts:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### On-Site Notifications

Name	Company
Larry Urioste	Structures Inc

## Forest Lakes Bridges

Report Date: Oct 4, 2021

Work Order No.: 21-8536.ReinforcingSteel.0011; ver: 1

Work Order Date: Oct 1, 2021

Reviewed by: Josiah Johnson

### Reinforcing Steel

#### Photos



Columns 4 through 6



Column 6 reinforcement

## Forest Lakes Bridges

Report Date: Oct 22, 2021

Work Order No.: 21-8536.ReinforcingSteel.0012; ver: 1

Work Order Date: Oct 18, 2021

Reviewed by: Josiah Johnson

### Reinforcing Steel

General Contractor: Structures Inc

Performed by: Brian Rivera

Installation Contractor: Structures Inc

Documents Used: Structural Plans,

Placement Location: East and West Pier Cap

### Placement Area

	Conforms	Does Not Conform	Not Applicable	Not Observed
Placement Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formwork, Falsework, and Void Forms:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction Joints:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Reinforcement

Surface Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type, Grade, and Size:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile and Quantity:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spacing and Clearances:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bends, Hooks, Spirals, Stirrups, and Ties:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Splices

Lap Splices:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Connections

Dowels:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Embedded Items and Anchor Bolts:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### On-Site Notifications

Name	Company
Elliott Van Stelle	Structures, Inc.

Results apply only to the specific items and locations referenced and at the time of testing, observations or special inspections. This report should not be reproduced, except in full, without the written permission of GROUND Engineering Consultants, Inc.

## Forest Lakes Bridges

Report Date: Oct 22, 2021

Work Order No.: 21-8536.ReinforcingSteel.0012; ver: 1

Work Order Date: Oct 18, 2021

Reviewed by: Josiah Johnson

### Reinforcing Steel

#### Photos



Results apply only to the specific items and locations referenced and at the time of testing, observations or special inspections. This report should not be reproduced, except in full, without the written permission of GROUND Engineering Consultants, Inc.



Client: Elliott Van Stelle  
Structures, Inc.  
4 Inverness Court East, Suite 250  
Englewood, CO 80112

### Forest Lakes Bridges

Report Date: Nov 2, 2021

Work Order No.: 21-8536.ReinforcingSteel.0013; ver: 1

Work Order Date: Nov 1, 2021

Reviewed by: Josiah Johnson

#### Reinforcing Steel

General Contractor: Structures Inc

Performed by: Greg Davies

Installation Contractor: Structures Inc

Documents Used: Structural Plans,

Placement Location: Top of Abutment 3

Comments: Partial Inspection. Forms were not in place when GROUND arrived. Concrete placement area was also not cleared of debris. These discrepancies should be checked before concrete is placed.

#### Placement Area

	Conforms	Does Not Conform	Not Applicable	Not Observed
Placement Condition:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formwork, Falsework, and Void Forms:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction Joints:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Reinforcement

Surface Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type, Grade, and Size:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile and Quantity:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spacing and Clearances:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bends, Hooks, Spirals, Stirrups, and Ties:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Splices

Lap Splices:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### Connections

Dowels:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Embedded Items and Anchor Bolts:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### On-Site Notifications

Name	Company
Larry Urioste	Structures Inc

Results apply only to the specific items and locations referenced and at the time of testing, observations or special inspections. This report should not be reproduced, except in full, without the written permission of GROUND Engineering Consultants, Inc.

## Forest Lakes Bridges

Report Date: Nov 2, 2021

Work Order No.: 21-8536.ReinforcingSteel.0013; ver: 1

Work Order Date: Nov 1, 2021

Reviewed by: Josiah Johnson

### Reinforcing Steel

#### Photos



Abutment 3 rebar

## Forest Lakes Bridges

Report Date: Nov 5, 2021

Work Order No.: 21-8536.ReinforcingSteel.0015; ver: 1

Work Order Date: Nov 4, 2021

Reviewed by: Josiah Johnson

### Reinforcing Steel

General Contractor: Structures, inc.

Performed by: Cody Jerz

Installation Contractor: H&B Rebar

Documents Used: Structural Plans,

Placement Location: Completed partial inspection of Abutment 3 and Wingwalls 3A&3B, began partial inspection of Abutment 1 and Wingwalls 1A&1B

Comments: Dowels extending from abutment wall into approach slab were not in place on either abutment. The contractor was informed that the plans seemed to indicate that they extend through the upper Construction joint, but opted to place the dowels above the construction joint after the middle section was poured. No length of dowel was specified on the typical section details.

Forms were not completely in place on abutment 1 or Wingwalls 1A & 1B at the time of inspection, so an additional inspection shall be completed to check clear concrete cover for rebar.

### Placement Area

	Conforms	Does Not Conform	Not Applicable	Not Observed
Placement Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formwork, Falsework, and Void Forms:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Construction Joints:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Reinforcement

	Conforms	Does Not Conform	Not Applicable	Not Observed
Surface Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type, Grade, and Size:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile and Quantity:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spacing and Clearances:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bends, Hooks, Spirals, Stirrups, and Ties:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Splices

	Conforms	Does Not Conform	Not Applicable	Not Observed
Lap Splices:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Connections

	Conforms	Does Not Conform	Not Applicable	Not Observed
Dowels:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Embedded Items and Anchor Bolts:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### On-Site Notifications

Name	Company
Larry Urioste	Structures, inc.

## Forest Lakes Bridges

Report Date: Nov 5, 2021

Work Order No.: 21-8536.ReinforcingSteel.0015; ver: 1

Work Order Date: Nov 4, 2021

Reviewed by: Josiah Johnson

### Reinforcing Steel

#### Photos



Reinforcement installed in Wingwall 3B



Reinforcement placement in abutment 3



Partial completion of abutment 1, inner forms were not yet in place.

## Forest Lakes Bridges

Report Date: Dec 8, 2021

Work Order No.: 21-8536.ReinforcingSteel.0016; ver: 2

Work Order Date: Nov 11, 2021

Reviewed by: Josiah Johnson

### Reinforcing Steel

General Contractor: Structures, Inc.

Performed by: Jeff DeCoster

Installation Contractor: H&B Rebar

Documents Used: Shop Drawings|Structural Plans,

Placement Location: Abutment 1 at STA 14+74.77; Wing walls 1A and 1B.

### Placement Area

	Conforms	Does Not Conform	Not Applicable	Not Observed
Placement Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formwork, Falsework, and Void Forms:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction Joints:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### Reinforcement

Surface Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type, Grade, and Size:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile and Quantity:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spacing and Clearances:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bends, Hooks, Spirals, Stirrups, and Ties:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Splices

Lap Splices:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Connections

Dowels:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Embedded Items and Anchor Bolts:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### On-Site Notifications

Name	Company
Larry Urioste	Structures, Inc.

## Forest Lakes Bridges

Report Date: Dec 8, 2021  
Work Order Date: Nov 11, 2021

Work Order No.: 21-8536.ReinforcingSteel.0016; ver: 2  
Reviewed by: Josiah Johnson

### Reinforcing Steel

#### Photos



Placement of rebar for Abutment 1



Wing wall 1B



Wing wall 1A

Results apply only to the specific items and locations referenced and at the time of testing, observations or special inspections. This report should not be reproduced, except in full, without the written permission of GROUND Engineering Consultants, Inc.

## Forest Lakes Bridges

Report Date: Dec 17, 2021

Work Order No.: 21-8536.ReinforcingSteel.0018; ver: 2

Work Order Date: Dec 13, 2021

Reviewed by: Josiah Johnson

### Reinforcing Steel

General Contractor: Structures Performed by: Sashith Weerasundara  
 Installation Contractor: Structures  
 Documents Used: Structural Plans,  
 Placement Location: East and West Side of Bridge  
 Comments: Reinforcing steel inspection for sleeper slat on E and W side of bridge.

### Placement Area

	Conforms	Does Not Conform	Not Applicable	Not Observed
Placement Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formwork, Falsework, and Void Forms:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction Joints:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Reinforcement

Surface Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type, Grade, and Size:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile and Quantity:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spacing and Clearances:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bends, Hooks, Spirals, Stirrups, and Ties:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Splices

Lap Splices:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Connections

Dowels:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Embedded Items and Anchor Bolts:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### On-Site Notifications

Name	Company
Larry Uriost	Structures

## Forest Lakes Bridges

Report Date: Dec 17, 2021

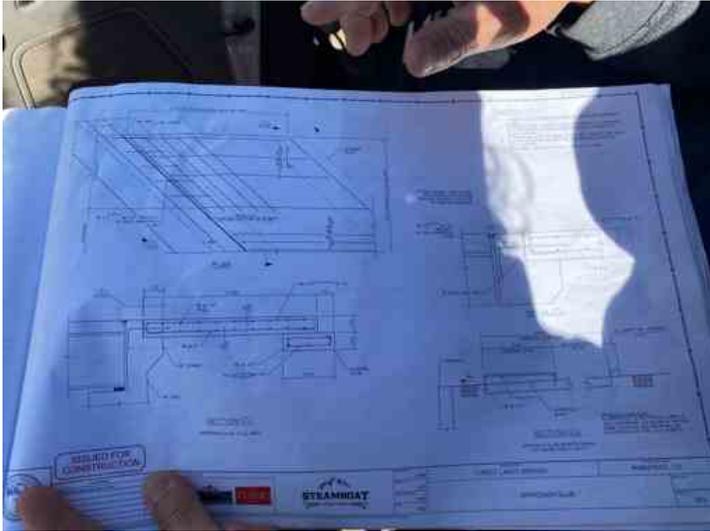
Work Order No.: 21-8536.ReinforcingSteel.0018; ver: 2

Work Order Date: Dec 13, 2021

Reviewed by: Josiah Johnson

### Reinforcing Steel

#### Photos



Sleeper pad plans



East side observation



West side observation

Results apply only to the specific items and locations referenced and at the time of testing, observations or special inspections. This report should not be reproduced, except in full, without the written permission of GROUND Engineering Consultants, Inc.

## Forest Lakes Bridges

Report Date: Dec 21, 2021

Work Order No.: 21-8536.ReinforcingSteel.0019; ver: 1

Work Order Date: Dec 20, 2021

Reviewed by: Josiah Johnson

### Reinforcing Steel

General Contractor: Structures, Inc.

Performed by: Angelo Donnabella

Installation Contractor: Structures, Inc.

Documents Used: Structural Plans,

Placement Location: Approach slab at E side of the bridge for WB and EB lanes.

### Placement Area

	Conforms	Does Not Conform	Not Applicable	Not Observed
Placement Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formwork, Falsework, and Void Forms:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction Joints:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Reinforcement

	Conforms	Does Not Conform	Not Applicable	Not Observed
Surface Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type, Grade, and Size:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile and Quantity:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spacing and Clearances:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bends, Hooks, Spirals, Stirrups, and Ties:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Splices

	Conforms	Does Not Conform	Not Applicable	Not Observed
Lap Splices:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Connections

	Conforms	Does Not Conform	Not Applicable	Not Observed
Dowels:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Embedded Items and Anchor Bolts:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Conformance Comments

Spacing was out of specification, however contractor fixed it and added more bars. Clearance was out of specification and rebars were cut off.

### On-Site Notifications

Name	Company
Elliott Van Stelle	Structures, Inc.

## Forest Lakes Bridges

Report Date: Dec 21, 2021

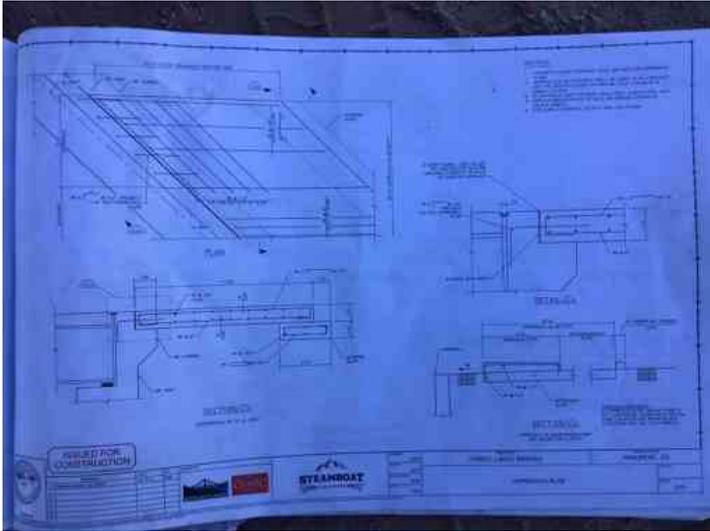
Work Order No.: 21-8536.ReinforcingSteel.0019; ver: 1

Work Order Date: Dec 20, 2021

Reviewed by: Josiah Johnson

### Reinforcing Steel

#### Photos



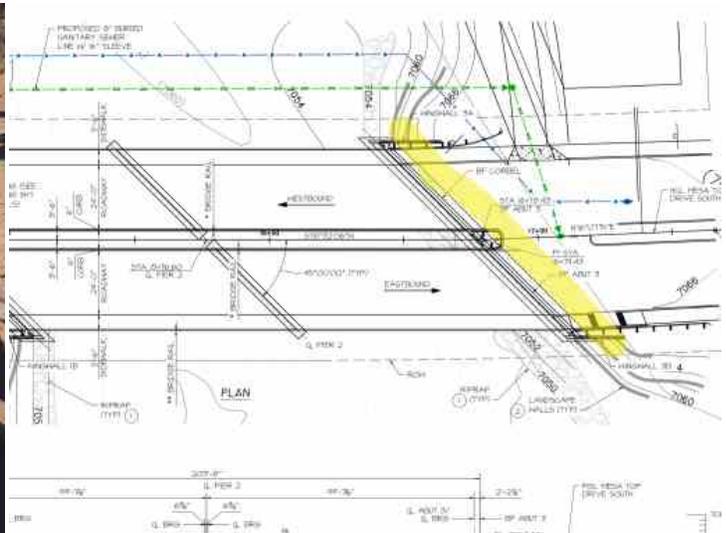
Plans used for inspection



Bars out of clearance, touching the form.



Crew adding extra bars at top bars.



Highlighted region represents inspected area

Results apply only to the specific items and locations referenced and at the time of testing, observations or special inspections. This report should not be reproduced, except in full, without the written permission of GROUND Engineering Consultants, Inc.

### Forest Lakes Bridges

Report Date: Dec 22, 2021

Work Order No.: 21-8536.ReinforcingSteel.0020; ver: 1

Work Order Date: Dec 21, 2021

Reviewed by: Josiah Johnson

#### Reinforcing Steel

General Contractor: Structures Inc

Performed by: Tadele Gebretsadik

Installation Contractor: Structures Inc

Documents Used: Structural Plans, B19

Placement Location: Approach slab @ West side of the bridge

#### Placement Area

	Conforms	Does Not Conform	Not Applicable	Not Observed
Placement Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formwork, Falsework, and Void Forms:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction Joints:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Reinforcement

Surface Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type, Grade, and Size:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile and Quantity:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spacing and Clearances:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bends, Hooks, Spirals, Stirrups, and Ties:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Splices

Lap Splices:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### Connections

Dowels:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Embedded Items and Anchor Bolts:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### On-Site Notifications

Name	Company
Larry Urioste	Structures Inc

## Forest Lakes Bridges

Report Date: Dec 22, 2021

Work Order No.: 21-8536.ReinforcingSteel.0020; ver: 1

Work Order Date: Dec 21, 2021

Reviewed by: Josiah Johnson

### Reinforcing Steel

#### Photos



Results apply only to the specific items and locations referenced and at the time of testing, observations or special inspections. This report should not be reproduced, except in full, without the written permission of GROUND Engineering Consultants, Inc.

## Forest Lakes Bridges

Report Date: Dec 29, 2021

Work Order No.: 21-8536.ReinforcingSteel.0021; ver: 1

Work Order Date: Dec 28, 2021

Reviewed by: Josiah Johnson

### Reinforcing Steel

General Contractor: Structures Inc.

Performed by: Jeff DeCoster

Installation Contractor: H&B Rebar

Documents Used: Shop Drawings,

Placement Location: Westbound of north bridge deck section.

### Placement Area

	Conforms	Does Not Conform	Not Applicable	Not Observed
Placement Condition:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formwork, Falsework, and Void Forms:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction Joints:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### Reinforcement

Surface Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type, Grade, and Size:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile and Quantity:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spacing and Clearances:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bends, Hooks, Spirals, Stirrups, and Ties:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Splices

Lap Splices:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Connections

Dowels:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Embedded Items and Anchor Bolts:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### Discrepancies

The following discrepancies were added as a result of services performed. It is the contractor's responsibility to resolve reported discrepancies and schedule retesting. A list of open discrepancies can be provided upon request.

Number	Description
Reinforcing Steel 1	Snow and deleterious material such as plastic bottles, wood and loose rebar were observed during inspection. GC informed GEC that it will be cleaned up prior to concrete pour.

### On-Site Notifications

Name	Company
Larry Urioste	Structures, Inc.

## Forest Lakes Bridges

Report Date: Dec 29, 2021

Work Order No.: 21-8536.ReinforcingSteel.0021; ver: 1

Work Order Date: Dec 28, 2021

Reviewed by: Josiah Johnson

### Reinforcing Steel

#### Photos



Bend section placement for sidewalk



Placement of north bridge section

Results apply only to the specific items and locations referenced and at the time of testing, observations or special inspections. This report should not be reproduced, except in full, without the written permission of GROUND Engineering Consultants, Inc.

### Forest Lakes Bridges

Report Date: Jan 20, 2022

Work Order No.: 21-8536.ReinforcingSteel.0023; ver: 1

Work Order Date: Jan 17, 2022

Reviewed by: Josiah Johnson

#### Reinforcing Steel

General Contractor: Structures INC

Performed by: Timur Nazarov

Installation Contractor: Structures INC

Documents Used: Structural Plans,

Placement Location: South side concrete deck

#### Placement Area

	Conforms	Does Not Conform	Not Applicable	Not Observed
Placement Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Formwork, Falsework, and Void Forms:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction Joints:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Reinforcement

	Conforms	Does Not Conform	Not Applicable	Not Observed
Surface Condition:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type, Grade, and Size:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile and Quantity:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spacing and Clearances:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bends, Hooks, Spirals, Stirrups, and Ties:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Splices

	Conforms	Does Not Conform	Not Applicable	Not Observed
Lap Splices:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welded Splices:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### Connections

	Conforms	Does Not Conform	Not Applicable	Not Observed
Dowels:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Embedded Items and Anchor Bolts:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Conformance Comments

#4 Rebar mesh in two layers 6"x12". 4" between layers.  
Sidewalk additional stirrups @ 6"  
Side to the middle additional I bend @ 6"  
At thermal gates 7 additional # 4 rebars all across deck.

#### On-Site Notifications

Name	Company
Elliott Van Stelle	Structures, Inc.

## Forest Lakes Bridges

Report Date: Jan 20, 2022

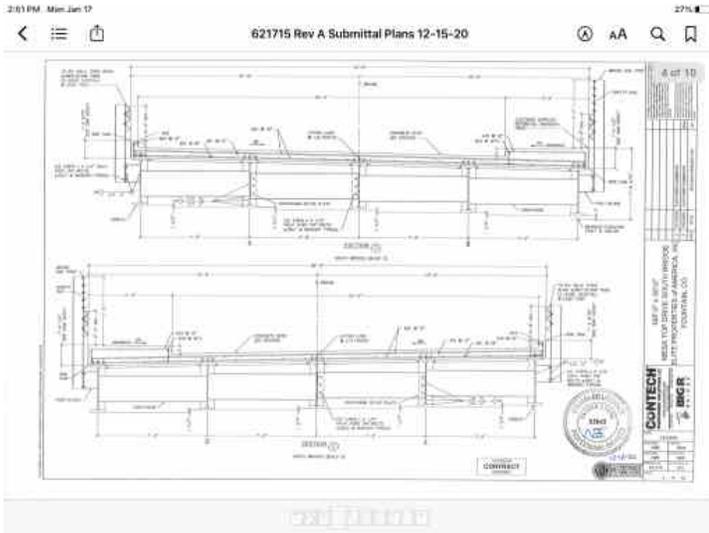
Work Order No.: 21-8536.ReinforcingSteel.0023; ver: 1

Work Order Date: Jan 17, 2022

Reviewed by: Josiah Johnson

### Reinforcing Steel

#### Photos



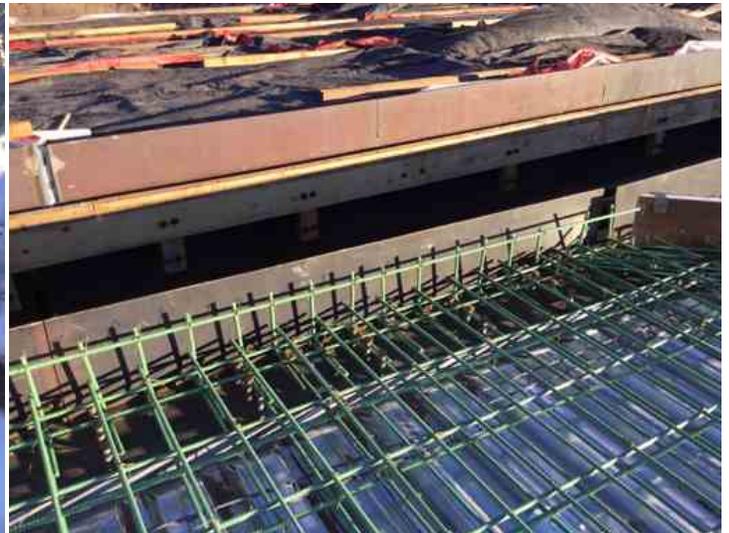
Plan used



Rebar markings



7 bars at thermal gates



L bends @ 6"

Results apply only to the specific items and locations referenced and at the time of testing, observations or special inspections. This report should not be reproduced, except in full, without the written permission of GROUND Engineering Consultants, Inc.

## Forest Lakes Bridges

Report Date: Jan 20, 2022

Work Order No.: 21-8536.ReinforcingSteel.0023; ver: 1

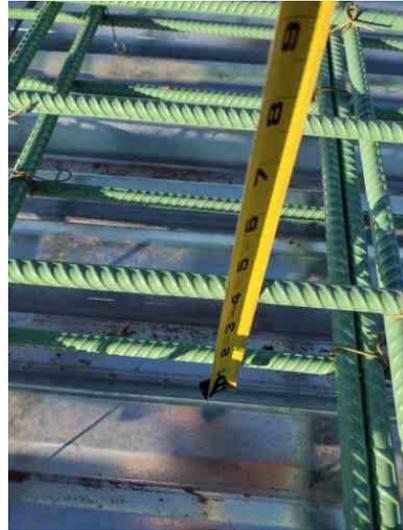
Work Order Date: Jan 17, 2022

Reviewed by: Josiah Johnson

### Reinforcing Steel



27" overlap at splice



4" between layers



6" alongside deck



12" perpendicular to roadway

Results apply only to the specific items and locations referenced and at the time of testing, observations or special inspections. This report should not be reproduced, except in full, without the written permission of GROUND Engineering Consultants, Inc.

## Forest Lakes Bridges

Report Date: Jan 20, 2022

Work Order Date: Jan 17, 2022

Work Order No.: 21-8536.ReinforcingSteel.0023; ver: 1

Reviewed by: Josiah Johnson

### Reinforcing Steel



Results apply only to the specific items and locations referenced and at the time of testing, observations or special inspections. This report should not be reproduced, except in full, without the written permission of GROUND Engineering Consultants, Inc.