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LETTER OF TRANSMITTAL

TO: Steamboat Structures

DATE: 6/2/2021

FILE NO. 002-01

ATTN: Heather Reed

RE: Forest Lake Bridges

WE ARE SENDING YOU:

- | | | |
|---|---|----------------------------------|
| <input type="checkbox"/> Shop Drawings | <input type="checkbox"/> Copy of Letter | <input type="checkbox"/> Samples |
| <input type="checkbox"/> Specifications | <input type="checkbox"/> Reports | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Plans | <input checked="" type="checkbox"/> Submittal Information | |

SUBMITTED BY: Structures

COPIES	DESCRIPTION	CONTRACTOR
1	Drilling Method Statement	Structures/LMS

THESE ARE TRANSMITTED:

- | | | |
|--|--|---|
| <input type="checkbox"/> For Approval | <input checked="" type="checkbox"/> For Review and Comment | <input type="checkbox"/> Returned for Corrections |
| <input checked="" type="checkbox"/> For Your Use | <input type="checkbox"/> Approved As Submitted | <input type="checkbox"/> _____ |
| <input checked="" type="checkbox"/> As Requested | <input type="checkbox"/> Approved As Noted | |

REMARKS:

cc: File

SHOP DRAWING REVIEW

- ☐ NO EXCEPTIONS ☒ REVISE AS NOTED
☐ REVISE AND RESUBMIT ☐ REJECTED

This review is for general conformance with the design intent of the project and general compliance with the information provided in the contract documents. Review, corrections, or comments made concerning the shop drawings during this review do not relieve the contractor from compliance with the requirements of the drawings and specifications, nor relieve the contractor of contractual responsibility for any error or deviation from the contract documents.

The contractor is responsible for, but not limited to: confirming all quantities, dimensions, and structural capabilities, selecting fabrication and construction techniques, coordinating work with that of all other trades, and performing work in a safe and satisfactory manner.

STEAMBOAT STRUCTURES, LLC

By: H. Reed

DATE: 7/07/21



FOREST LAKES BRIDGES
Caisson Drilling Method Statement

503.02

(a.)

1. On-Site Supervisors/Operators

2. Personnel Experience

Supervisors/Operators

Scott Cimfl, Operator

Has worked for LMS Drilling, Inc. since March 3, 1999 working first as a laborer and working his way up to Drill Rig/Crane Operator.

Joseph Espinosa, Operator

Has worked for LMS Drilling, Inc. since May 18, 2004 working first as a laborer and working his way up to Drill Rig Operator.

Scott Rhoades

Has worked for LMS Drilling, Inc. since June 10, 2010 working first as a laborer and working his way up to Drill Rig Operator.



FOREST LAKES BRIDGES Caisson Drilling Method Statement

b.) Drilled Shaft Excavation Method

1. All personnel will be trained to stay a minimum of 6-ft. away from any hole that is not protected from fall hazard. The hole will be covered by either plywood or the auger if personnel need to approach the hole. These measures will be observed after the hole depth is greater than 5-ft. The loader operator shall keep the wheels of the loader more than 6-ft. from the edge of the hole if possible.
2. Set drill rig with 42" dia. size auger over centerline of hole location.
- 2.a Drill shafts shall maintain vertically plumb using the following methods and techniques by using a built in bubble level during the drilling operations.
3. Drill down to top of bedrock, if water is present and hole is not stable construct drill slurry utilizing in-situ materials and potable water.
4. Set 42" dia. size diameter casing through slurry and seat into bedrock.
5. Clean slurry from casing using mudbucket
6. Drill the required penetration into bedrock.
7. All materials removed from the hole will be spun off next to the hole for removal by a loader provided by others.
8. Clean bottom of hole utilizing the auger or mud bucket if applicable.
9. After hole is approved by inspector begin concrete placement.
10. After concrete is inside casing by 5 – 10 ft. break casing loose by means of drilling winch. Pull casing and maintain vertical plumbness of casing during removal.
11. Continue concrete placement and casing removal simultaneously.
12. Once casing is removed from hole, set casing down and move to next location.

Place rebar prior to concrete placement



FOREST LAKES BRIDGES Caisson Drilling Method Statement

Anticipated Equipment and Tooling

Drill rig with appropriate size diameter auger with capacity to complete the project through material indicated by geotechnical investigation provided. The drill rigs and equipment listed below were chosen because they are all rated as heavy duty commercial sized rigs capable of drilling 54" diameter holes through the materials that are represented in the geotechnical investigation.

Spiradrill XHD
Watson 3110
SoilMec SR 30

42" dia. size OD casing with wall thickness of .5".

42" dia. size auger with standard earth digging teeth

42" dia. size mudbucket



FOREST LAKES BRIDGES
Caisson Drilling Method Statement

Jobs completed in the last 5 years

Project: CDOT IM 0253-222
Owner: CDOT
Contractor: Flatiron Constructors
Telephone: 720-494-8016

Project: WYDOT Douglas-Glenrock
Owner: WYDOT
Contractor: Reiman Corp
Telephone: 307-632-8971

Project: CDOT US Hwy 36
Owner: CDOT
Contractor: Jalisco International
Telephone: 303-287-8905