



August 15, 2024

Chad Carpenter
Mile High Community Management
376 SW Bluff Dr #4
Bend, Or 97702

RE: Wood Duck Bridge #20783 Oregon Water Wonderland

Dear Mr. Carpenter,

Cascade Civil is proposing to remove and replace the existing timber bridge with a concrete bridge. The new bridge will be a 60' span by 20' width. Cascade Civil will both design and construct the bridge. The 60' span will allow the new bridge's abutments to be located completely outside of the existing channel. The proposed bridge will have a load rating that allows for usage of all legal load vehicles. The bridge will be designed using ODOT design standards as the basis of design and constructed using ODOT specifications. This bridge will be founded on driven steel pile and reinforced concrete pile caps. The new superstructure of the proposed bridge will consist of 26" prestressed, precast concrete slabs per ODOT standard drawing BR420. The bridge railing will consist of 2 Tube side mount railings per ODOT standard drawing BR226. This type of bridge is a very common bridge system used throughout Oregon for most bridge structures with span length of less than 75'. All required approach work will be constructed including approach guardrail to the current ODOT standards. The roadway will be based with 8" of aggregate base and paved with 4" of asphalt and the bridge deck will be paved with approximately 2" of asphalt. All design work will be completed by a licensed Engineer with expertise in Bridge design and construction. Upon completion of the project a final acceptance letter from the Engineer of Record (EOR) will be provided along with a load rating as required by ODOT and Deschutes County. These documents will be what ODOT requires for the bridge inventory system.

To allow for access during the bridge's construction, Cascade Civil is proposing to install a 60' span temporary detour bridge on the upstream (NW) side of the existing bridge. This bridge will be constructed out of steel girders and wood decking with a load rating allowing for all legal loads. The detour bridge will be constructed to ODOT standards for temporary structures and traffic safety using the appropriate barriers and signage. The temporary surface will be aggregate base on top of temporary structures embankment. Both the bridge and the surfacing will be removed once the permanent structure is completed. All materials will remain the property of Cascade Civil and removed from the site and a final cleanup of disturbed areas will be completed.

The new bridge soffit elevation will be at the same elevation as the existing steel girders to not reduce the hydraulic opening of the channel. Cascade Civil is proposing that the existing timber crib abutments be left in place to avoid disturbance to the channel's bank, avoiding any work within the channel. Cascade Civil will not be providing any permits for the project and it's our



limited understanding that by not disturbing the existing channel, the permitting requirements are minimized. We will assist by providing any necessary information regarding the new bridge to the parties that are responsible for any required permits. We are available to coordinate and direct utility relocations required for this work but no costs associated with any utility relocations are included in this proposal.

The duration to install the detour bridge is approximately 3 weeks and 6 to 8 weeks to remove and construct the new bridge. It is anticipated that work on the detour bridge will start in mid-November of 2024 with intended completion date of late March 2025 as weather will play a factor in completion of asphalt paving.

Please feel free to reach out to us with any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "P. MacClanahan", with a stylized flourish at the end.

Paul MacClanahan
President



CONTRACT PROPOSAL

TO: Chad Carpenter
ADDRESS: Mile High Community Management
376 SW Bluff Dr #4
Bend Oregon 97702
PROJECT: **Wood Duck Bridge**

DATE: August 16, 2024
PHONE: 541-527-1400
FAX: _____
ESTIMATOR: Tim Way

Item	Description	Qty	UM	Unit Price	Amount
1	Mobilization	1	LS	\$ 39,720.00	\$ 39,720.00
2	Construct Detour Bridge 60' Span 20' Width	1	LS	\$ 154,997.00	\$ 154,997.00
3	Remove Existing Bridge	1	LS	\$ 41,874.00	\$ 41,874.00
4	Construct 60' x 20' Concrete Bridge	1	LS	\$ 490,356.00	\$ 490,356.00
CONTRACT PRICE					\$ 726,947.00

Conditions:

BY _____

Date _____

Owner / Prime Contractor _____

Date _____

Cascade Civil Corp 255 SE Black Butte Blvd, Redmond, OR 97756 (541) 527-1400 CCB# 226332