

Amendment Request

Date: 8/22/2024
To: Bryce LeBrun, Dakota County Project Manager
From: Jordan Horejsi, HR Green Project Manager
RE: Mississippi River Greenway Trail Design – Amendment #1 Out of Scope Items

Mississippi River Greenway Trail Design – Scope of Work for Amendment Request

The following summary of tasks that are outside of the original scope of work for the Mississippi River Greenway (MRG) trail design are required to bring the preferred alternative for the trail design to contract documents and to deliver construction administration during construction. This memo provides the basis for the additional work on the project that was outside, or expanded upon, the original scope of work. This estimate includes work that has been done during preliminary design by HR Green and includes work to be performed by HR Green and our subconsultant, Braun Intertec.

Preliminary Design

In order to correct the sharp horizontal curves and the longitudinal slope that is over 9% in some areas, completely new horizontal alignments and vertical profiles needed to be reviewed. The extent of the design change was robust and with more impacts to the surrounding environment than anticipated to correct the trail slope. Multiple design concepts were required to evaluate and minimize tree and right-of-way impacts, to consider the existing retaining wall, and compare construction cost. Several trail alternatives were analyzed and discussed by the project team with several rounds of iteration as the preferred alternative emerged.

Concurrent with the MRG trail design near CSAH 42 and US Lock and Dam No. 2, is the MRG master visioning study contract for creating a cohesive vision for the entire MRG trail. As the preliminary design progressed, communication with the visioning study led to the evaluation of a lookout attached to the trail reconstruction. Different locations and parameters of lookout were designed to connect to the new MRG trail alignment.

Final Design

The extent of impact of the preferred alternative triggered additional scope elements including a 30% design package, proposed retaining wall and existing retaining wall structural analysis, additional soil boring locations and depths, and significant permitting.

The proposed retaining wall is approximately 200 feet long and 10 feet tall at its apex and will be designed to avoid impact to the existing wall and will require construction coordination. The retaining wall will require alignment and profile design, drainage design, and will be included in the modeling and trail cross sections to estimate earthwork and limits impacts.

Additional geotechnical field work and analysis is required to collect borings at locations of the new trail alignment (locations where there is proposed trail where there is no existing trail) and with a minimum depth of 15 feet (the new trail will be dropped as much as 10 feet in some locations). Then the geotechnical report will be updated to provide any trail recommendations or soil concerns.

Project permitting for the trail reconstruction adjacent to the sensitive Mississippi River corridor will include coordination and permitting activities including coordination with USACE, US Fish and Wildlife

IPaC, NHIS Survey and Bald and Golden Eagle Protection Act, NPDES Permit, Shoreland Ordinance, Land Use Application, Mississippi River Corridor Critical Area, and the City of Hastings Tree Preservation Program.

Finally, Construction Services are included in the HR Green amendment scope because of the full reconstruction of the trail and project elements including the retaining wall, which require resources outside of the County's ability to provide. Construction services include construction surveying, daily construction observation, quantity and pay app approvals, and materials testing.

We look forward to delivering the design and construction of this important connection on the MRG trail.

Sincerely,

HR Green, Inc.



Jordan Horejsi, PE
Project Manager