



## REQUEST FOR COUNCIL ACTION

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**MEETING DATE:** May 2, 2022

**PREPARED BY:** John Hagen, P.E., PTOE, Transportation Operations Engineer

**AGENDA ITEM:** Weaver Lake Road Retaining Wall Reconstruction Project No. 19-09  
Approve plans and ad for bids  
Resolution No. 22-088

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**PREVIOUS ACTIONS:**

At their January 22, 2019 meeting, Council adopted Resolution No. 19-012 establishing the Weaver Lake Road Retaining Wall Reconstruction Project (City Project No. 19-09) and ordering feasibility study.

At their June 3, 2019 meeting, Council adopted Resolution No. 19-073 receiving the feasibility study of the Weaver Lake Road Retaining Wall Reconstruction Project No. 19-09 and ordering plans.

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**RECOMMENDED COUNCIL ACTION:**

Receive direction from Council on retaining wall aesthetics.

Motion to adopt Resolution No. 22-088 approving plans and specifications for the Weaver Lake Road Retaining Wall Reconstruction Project No. 19-09 and authorizing advertisement for bids.

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**COMMENTS:**

**Wall Aesthetics:**

The feasibility study that was completed in June 2019 determined that prefabricated modular gravity block walls (PMGBW) will provide the most economical wall system with the least construction disruption to the adjacent properties. Plans and specifications for the reconstruction of the Weaver Lake Road Retaining Wall Project No. 19-09 have been completed with the exception of the selection of the retaining wall aesthetics. Since there are a number of other retaining walls along the Weaver Lake Road corridor that will likely need to be reconstructed in the coming years, staff is seeking direction from Council on the wall aesthetics for not only this particular retaining wall, but also for the others that will be reconstructed in the future.

Staff has reviewed the list of MnDOT pre-qualified prefabricated modular gravity block walls with the goal of narrowing down the texture options for the Council to select from to a manageable number.

Attachment A shows four retaining wall texture and color options for the Council to consider. Three options (fieldstone, rustic, and weathered edge) include textures that break up the face of the large blocks to look like smaller stones or blocks stacked on one another. The fourth option (limestone) provides a natural stone texture the entire block face, but does not break up the large block appearance. You may notice in Attachment A that the limestone option was recently used at the Fernbrook Athletic Fields. Since the proposed Weaver Lake Road retaining wall will have segments that range from approximately two to eight feet in height, Attachment A includes tall and short wall examples for each texture option.

The typical block face size of PMGBWs are four-feet wide by one and a half to two-feet high. The blocks arrive at the site “unstained” in its natural grey concrete finish. If color is desired, a stain would be applied once the wall is constructed. A single-color finish applied to the proposed Weaver Lake retaining wall would cost approximately \$10,000; a two-color system applied to the wall would cost \$15,000 (50% more than the single color); while a three-color system would cost approximately \$26,000 (160% more than a single color).

In order to complete the plans and specs, staff requests direction from Council on which of the four texture options they would prefer, and whether they would like unstained, single-color, or multi-color stain applied to the retaining wall.

**Approving Plans and Specs & Authorizing Advertisement for Bids:**

Plans and specifications for the reconstruction of the Weaver Lake Road Retaining Wall Reconstruction Project No. 19-09 have been prepared and are on file in the Engineering Department. The bid opening will be on June 9, 2022 at 10:00 a.m. at the Maple Grove Government Center. Award of contract is scheduled for the City Council meeting on June 20, 2022.

It is recommended that Council adopt the attached resolution approving plans and specifications for Weaver Lake Road Retaining Wall Reconstruction Project No. 19-09 and authorizing advertisement for bids.

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**ATTACHMENTS:**

- Attachment A: Retaining wall texture and color options
- Attachment B: Resolution No. 22-088
- Attachment C: Project location map