

RESOLUTION 20-48

A RESOLUTION TO AUTHORIZE EXPENDITURE FOR DECORATIVE FORM LINER FINISHES FOR BUCKNER ROAD INTERCHANGE (BUILD) PROJECT

WHEREAS, the City of Spring Hill (“City”) applied for and was awarded a \$25,000,000 BUILD grant for the I-65 Interchange at Buckner Road (BUILD Grant Project) that includes connecting roads to Buckner Lane and Lewisburg Pike (“Project”); and

WHEREAS, the State of Tennessee Department of Transportation (“TDOT”) and the City of Spring Hill have entered into a Local Agency Project Agreement for the Project that provides for TDOT to administer a design-build project delivery to ensure expedient completion of the Project; and

WHEREAS, Volkert was retained as a design consultant to assist the City with the preparation of preliminary design plans associated with the Project including preparing supporting documentation for the Request for Proposals to be issued by TDOT as part of selecting a design-build contractor for the Project; and

WHEREAS, the Buckner Road Interchange (BUILD) Project is recognized as the primary gateway to the City of Spring Hill from Interstate 65 and as such its design character should be befitting of its prominence as the primary gateway to the community; and

WHEREAS, a decorative form liner type finish can be applied to various outer surfaces of structural components of the interchange bridge structure including columns, wingwalls, retaining walls, and pedestrian barrier walls that resembles colored stacked stone indicative of the historic stack stone walls found in many locations in Spring Hill and the surrounding region; and

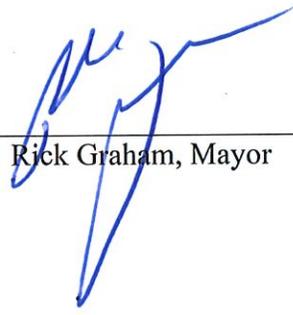
WHEREAS, the inclusion of a decorative finish is not customarily paid for by TDOT and therefore the cost associated with the decorative finish will need to be covered by the City; and

WHEREAS, Volkert prepared a detailed estimate of probable cost based upon estimated quantities that ranged from \$40,500 for a gray-color Ashlar form-liner finish to \$102,200 for a multi-color stacked stone form-liner finish with the latter being the preferred decorative finish the cost of which will be covered utilizing budgeted contingency for the BUILD project.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Mayor and Aldermen of the City of Spring Hill authorizes the following:

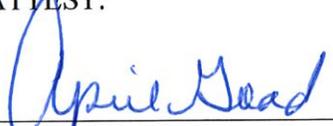
1. Add as a decorative finish to exterior faces of select structural elements including columns, wingwalls, retaining walls, and pedestrian barrier walls for the Buckner Road Interchange (BUILD) project utilizing a multi-color stained stack stone form liner finish at an estimated cost of \$102,200 to be paid by the City of Spring Hill to the State of Tennessee Department of Transportation for cost of installation for this specialized decorative finish. Funding for the decorative finish will utilize budgeted contingency.

Passed and adopted by the Board of Mayor and Aldermen of the City of Spring Hill,
Tennessee on this 20th day of April, 2020.



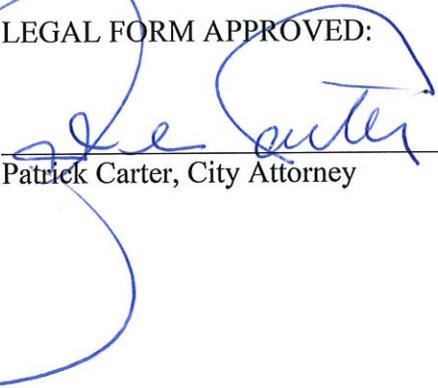
Rick Graham, Mayor

ATTEST:



April Goad, City Recorder

LEGAL FORM APPROVED:



Patrick Carter, City Attorney



REQUEST: Resolution 20-48 – Approval of Decorative Finish for Buckner Road/Interstate 65 Interchange (BUILD) Project

SUBMITTED BY: Chuck Downham, Assistant City Administrator

DATE: April 20, 2020

RE: Resolution 20-48 – Approval of Decorative Finish for Buckner Road/Interstate 65 Interchange (BUILD) Project

ATTACHMENTS: Supporting documentation

PURPOSE:

Approval of Resolution 20-48 to authorize adding a decorative finish select structural elements of the Buckner Road/I-65 Interchange bridge structure using a multi-stained stack stone form liner application.

BACKGROUND:

Preliminary engineering on the Buckner Interchange project is nearing completion and the question regarding enhanced finishes needs to be addressed on whether such elements are to be included in the plans and specifications being prepared. Volkert has identified a few different options that are often considered to enhance the design aesthetics of the structural elements of an interchange and provided examples (see below). The enhancements involve the use of form liners that allow decorative finishes to be applied to the bridge structure in a variety of different textures and finishes. One of the most popular is the use of a faux stone liner finish that replicates natural stone that can be further enhanced using different color stains to give the finish a more realistic appearance to real stone. These specialized finishes can be applied to various structural elements of the interchange bridge including abutments, wing and retaining walls, and columns, and pedestrian barrier walls as illustrated in the photographs below.



Taking visual and historic cues from Spring Hill and the surrounding middle Tennessee area, stacked stone walls convey a historical quality and character indicative of the area. Staff recommends a multi-color stacked stone form line resembling the patterns illustrated in the photos above be utilized. Volkert prepared an estimate of probable cost based upon a detailed quantity estimate and determined the estimated cost for a plain gray Ashlar-style stone finish would be approximately \$40,500 while a multi-color stacked stone finish would be an estimated \$102,200 that was inclusive of a construction contingency. The cost for such an enhanced specialized finish, whether Ashlar-style or multi-color stained stacked stone form liner, will need to be covered in either case by the City of Spring Hill.

FINANCIAL IMPACT:

The estimate of probable cost for the Ashlar-style grey stone form-liner finish was approximately \$40,500 including contingency. The estimate of probable cost for the multi-color stained stack stone form liner was estimated at \$102,200 including contingency. The cost for this enhanced specialized finish can be covered from project contingencies that will be budgeted for the overall BUILD Project once the \$25M bond funds have been received by the City. City staff recommended during consideration of Resolution 20-19A that a project contingency in the amount of \$2.84M be established for the project.

STAFF RECOMMENDATION:

Staff recommends approval of Resolution 20-48 to authorize the inclusion of a multi-color stained stack stone specialized finish on select structural elements of the Buckner Road/I-65 Interchange (BUILD) bridge structure at an estimated cost of \$102,200 the cost of which will be paid by the City of Spring Hill to TDOT.



