

Memorandum

TO: City Council
FROM: David Yang , Staff Engineer
DATE: December 1, 2025
SUBJECT: Authorize execution of a professional services agreement with American Engineering Testing, Inc. for the 2026 and 2027 Street Rehabilitation
ITEM NUMBER: 8.m
SECTION: CONSENT AGENDA

REQUESTED MOTION

To authorize execution of a professional services agreement with American Engineering Testing, Inc. for geotechnical evaluation and pavement mix design in the amount of \$58,980 for the 2026 Street Rehabilitation, city project 26-04, and 2027 Street Rehabilitation, city project 27-02.

INTRODUCTION

The 2026 and 2027 street rehabilitation projects are part of the city's 2025-2029 capital improvement plan (CIP) to rehabilitate the pavement on local streets throughout the city. The CIP is a reflection of the city's assessment of community needs and ability to fund major improvements. It is guided by the notion that repairing and maintaining existing systems takes priority over their expansion or the provision of new services.

Staff has identified 7 miles of streets for rehabilitation in 2026 and 2027. These were selected based on the city's pavement management program, which includes evaluating maintenance records and pavement condition data, and conducting visual inspections. In accordance with similar projects in the past, staff has determined the services required to complete the project and recommends the city council authorize approval of a professional services agreement with American Engineering Testing, Inc.

DISCUSSION

The city utilizes a bituminous pavement rehabilitation technique called Stabilized Full Depth Reclamation (SFDR) to extend the lifespan of local streets by restoring their structural integrity and durability. SFDR is preferred over other rehabilitation strategies not only due to successful end results as substantiated by past city projects, but also because it is a more cost effective and environmentally friendly approach that reduces traffic impacts and project time.

SFDR consists of reclaiming the existing bituminous surface and aggregate base, stabilizing the reclaimed material with emulsified asphalt to form a new pavement base, grading the stabilized material to establish a crown for proper surface stormwater drainage, and paving a new bituminous surface. The integrity and strength of the rehabilitated pavement structure is dependent on the amount of emulsified asphalt that is used to stabilize the reclaimed material, which is determined by completing a pavement mix design. As in prior projects, a mix design

requires collecting cores of the existing pavement and samples from the underlying aggregate base from various locations on the project roadways. The collected material is mixed together and different amounts of emulsified asphalt is added to the mix to determine the optimal amount of emulsion required to produce a structurally sound and uniform pavement base.

Since the city does not have the required expertise or equipment to complete a mix design, staff has obtained a proposal from American Engineering Testing, Inc. (AET), an engineering testing firm, to perform the required services. The proposed estimated cost for this service is \$58,980. The expense will be funded by the street renewal fund. A copy of AET's proposal is attached for reference. AET has extensive expertise in pavement rehabilitation with asphalt emulsion, and has provided geotechnical and pavement services for the city on previous rehabilitation projects that have used asphalt emulsion. The estimated cost for the services related to the pavement mix design is comparable to previous costs for similar-sized projects.

RECOMMENDATION

Staff recommends the city council authorize a professional services agreement with American Engineering Testing, Inc. for geotechnical evaluation and pavement mix design in the amount of \$58,980 for the 2026 Street Rehabilitation, city project 26-04, and 2027 Street Rehabilitation, city project 27-02.

ATTACHMENTS

[AET Geotech and Pavement Mix Design Proposal 2026-2027 Street Rehab](#)