



Legislation Text

File #: 22-5529, **Version:** 1

Department: County Engineer

Department Head/Elected Official: Milton Rahman, PhD, P.E., PMP, CFM, County Engineer

Regular or Supplemental RCA: Regular RCA

Type of Request: Report

Project ID (if applicable): 22101MF2CW01

Vendor/Entity Legal Name (if applicable): Kimley Horn and Associates, Inc.

MWDBE Contracted Goal (if applicable): N/A

MWDBE Current Participation (if applicable): N/A

Justification for 0% MWDBE Participation Goal: N/A - Goal not applicable to request

Request Summary (Agenda Caption):

Request for approval of a Study Report prepared by Kimley Horn and Associates, Inc. for Miller Road 2 Pavement Redesign from US 90 to approximately 550 feet north of Wallisville Road, UPIN 22101MF2CW01, Precinct 1.

Background and Discussion:

Miller Road 2 is currently surfaced using Hot Mix Asphalt Concrete (HMAC). The existing road surface is in a state of disrepair due to the significant number of heavy vehicles traversing the corridor, access various adjacent heavy industrial developments. Ultimately the existing Miller Road 2 will be replaced with a reconstructed roadway, however this will not occur for some time and a more robust interim solution will be required.

The Study Report prepared by the Consultant explores the use of Joint Reinforced Concrete Pavement (JRCP), an alternative concrete pavement treatment not used in the Houston area but elsewhere in Texas and the nation, aiming to provide an extended service life compared to the existing HMAC treatment. Confirmation of the suitability of this treatment, along with traffic control considerations during construction, are elucidated in the Study Report.

Expected Impact:

The project will provide a longer life surfacing treatment, as compared to the existing HMAC surface, thus reducing maintenance requirements by the Precinct.

Alternative Options:

No Action - Condition of the roadways surface will continue to deteriorate, ultimately leading to total failure of the roadway and impassability for motor vehicles.

Reconstruct Road with HMAC surfacing (similar to existing) - expected service life of 5 to 10 years, road will eventually degrade to a similar condition as it is today.

Reconstruct Road to Standard 4 lane Divided Cross-Section - Significant amounts right-of-way will need to be acquired, extending the project timeline by several years. Does not address current surface condition in the short term, an interim solution would be required.

Alignment with Goal(s):

- ☐ Justice and Safety
- ☐ Economic Opportunity
- ☐ Housing
- ☐ Public Health
- ☒ Transportation
- ☐ Flooding
- ☐ Environment
- ☐ Governance and Customer Service

Prior Court Action (if any):

Date	Agenda Item #	Action Taken
9/14/2021	124	Authorization to Negotiate
2/22/2022	22-1205	Approve Consulting Services Agreement

Location:

Address (if applicable): N/A

Precinct(s): Precinct 1

Fiscal and Personnel Summary			
Service Name			
	SFY 22	FY 23	Next 3 FYs
Incremental Expenditures (do NOT write values in thousands or millions)			
Labor Expenditures	\$	\$	\$
Non-Labor Expenditures	\$	\$	\$
Total Incremental Expenditures	\$	\$	\$
Funding Sources (do NOT write values in thousands or millions)			
Existing Budget			
1000 - General Fund	\$	\$	\$
Choose an item.	\$	\$	\$
Choose an item.	\$	\$	\$
Total Current Budget	\$	\$	\$
Additional Budget Requested			
Choose an item.	\$	\$	\$

Choose an item.	\$	\$	\$
Choose an item.	\$	\$	\$
Total Additional Budget Requested	\$	\$	\$
Total Funding Sources	\$	\$	\$
Personnel (Fill out section only if requesting new PCNs)			
Current Position Count for Service	-	-	-
Additional Positions Requested	-	-	-
Total Personnel	-	-	-

Anticipated Court Date: September 13, 2022

Anticipated Implementation Date (if different from Court date): N/A

Emergency/Disaster Recovery Note: Not an emergency, disaster, or COVID-19 related item

Contact(s) name, title, department: Mohamed Sayed, Senior Project Manager, HCED

Attachments (if applicable): Study Report