

STAFF REPORT



SUBJECT: Brick Street Reconstruction Design – Professional Services Proposal
MEETING: Committee Meeting - 19 Jul 2022
DEPARTMENT: Public Works
STAFF CONTACT: Nick Williams

RECOMMENDATION:

Staff recommends entering into a professional services agreement with Jacob and Martin, LLC. for the design of the brick street reconstruction project on College Street from Graham Avenue to Belknap Avenue and on Belknap Avenue from College Street to Washington Street.

BACKGROUND:

In 2021, the 100 block of Graham Avenue on the east side of the courthouse was repaved with historic Thurber brick. Implementation of a brick street project was recently discussed again by council for the downtown area. The original Thurber brick paving on the south and west sides the courthouse was overlaid with asphalt in the past.

PROPOSAL:

The proposed scope of work in the professional services agreement provides detailed plans and specifications for the design of brick pavement improvements on College Street and Belknap Avenue, on the south and west sides respectively adjacent to the courthouse, including roadway and ADA sidewalk improvements, as well as the replacement of existing cast iron water lines and clay sewer lines. Additionally, the agreement provides for materials testing (density and concrete) during the construction phase of the project.

The agreement provides for the design work to be completed within a five (5) month timeframe and provides a liquidated damages clause should the design not be completed on schedule.

Enclosed are exhibits identifying the location of the proposed design work. A copy of the proposal is also attached.

FISCAL IMPACT SUMMARY:

The agreement proposes to prepare contract documents including construction drawings, specifications, with design layout, surveying, geotechnical work, as well as materials testing for a not-to-exceed sum of \$101,800.

Due to the full demolition and reconstruction of the pavement, including ADA accommodations, utility replacement, and drainage design, the opinion of probable construction cost is between \$900k and \$1 million.

The construction, if approved, is conservatively anticipated to take nine (9) months to complete to best coordinate with downtown businesses, events, and traffic.

Funds for the design cost would be allocated from the FY21-22 annual Pavement Maintenance Budget. \$400,000 of funds in the FY21-22 budget would be rolled into the FY22-23 budget for construction funds. Sufficient funds exist in the current budget to accommodate this strategy. Designed pavement projects in FY21-22, including the Swan, Hyman and S. Dale project, the Bates and Elm project, as well as the Lockhart project are projected to leave sufficient funds for this work.

ALTERNATIVES:

The following alternatives are provided for consideration:

1. Do not recommend approval of the professional services agreement as presented or
2. Recommend an alternate scope of work.

ADVANTAGES:

1. Recommending approval allows the design work to commence immediately.
2. Construction phase work requires written pre-approval.

DISADVANTAGES:

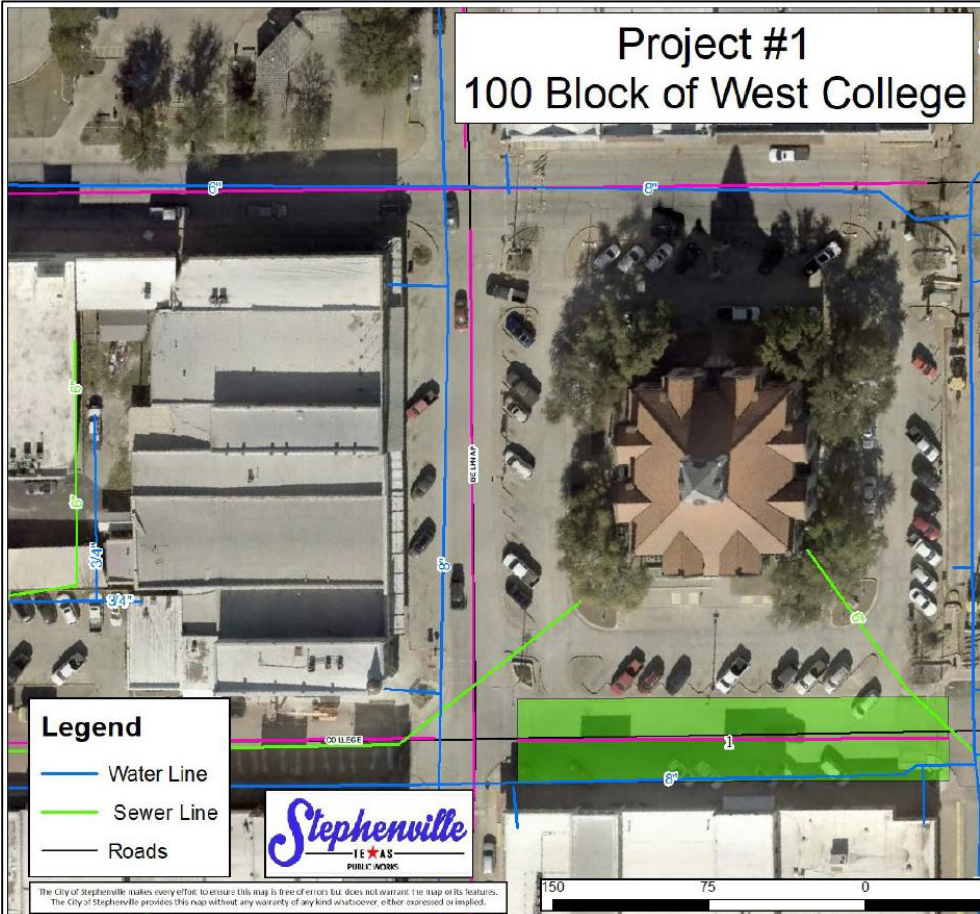
1. Funding has not been specifically identified for this project.

ATTACHMENTS:

[Brick Street Reconstruction Project – Professional Services Agreement – 2022_07-19](#)

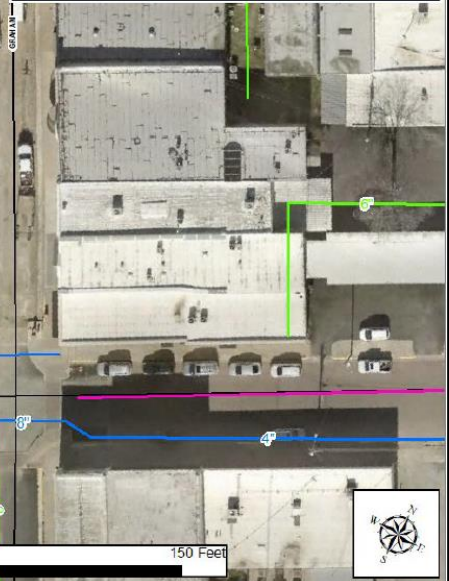
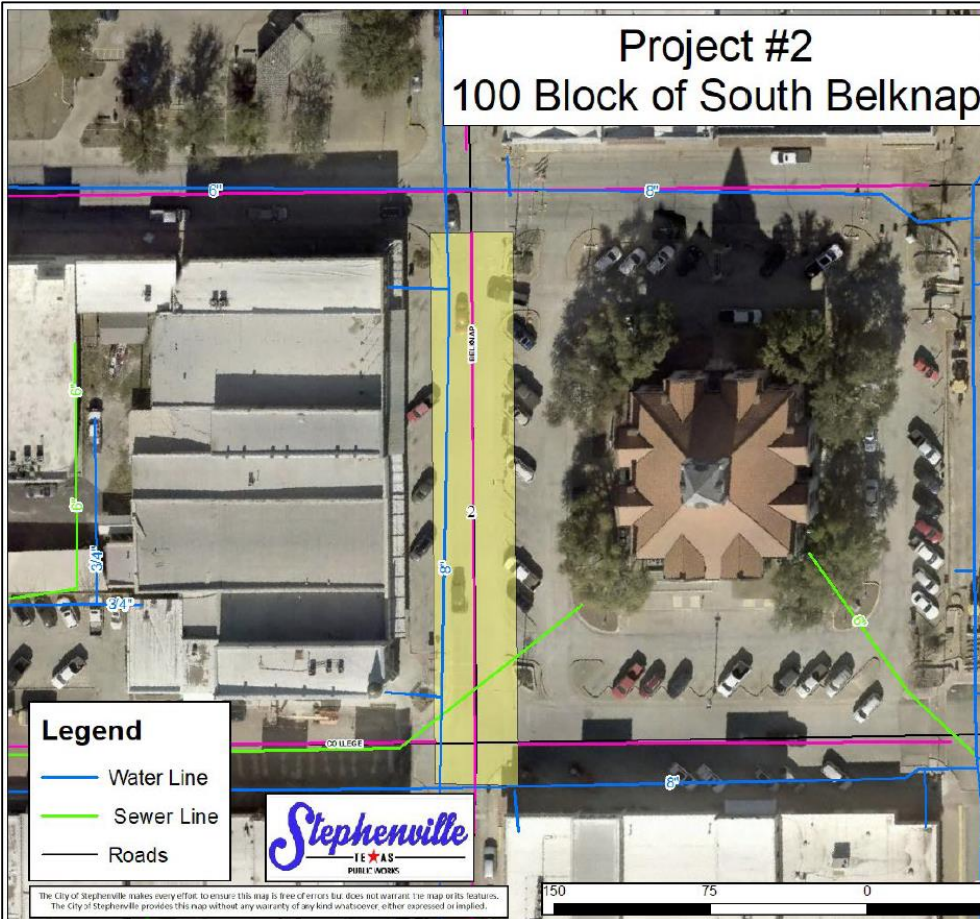
Project #1 100 Block of West College

COLLEGE (BELKNAP TO GRAHAM)		ESTIMATED RECONSTRUCTION COST			
ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
1	Remove, Clean and Palletize Existing Bricks	1,035	SY	\$ 45	\$ 46,575
2	Remove Existing Base	1,035	SY	\$ 8	\$ 8,280
3	Remove Existing Concrete Curb & Gutter	414	LF	\$ 15	\$ 6,210
4	Cement Stabilized Subgrade	1,035	SY	\$ 10	\$ 10,350
5	6" Concrete Pavement	1,035	SY	\$ 115	\$ 119,025
6	Install Brick Pavement	1,035	SY	\$ 65	\$ 67,275
7	Concrete Curb & Gutter	414	LF	\$ 35	\$ 14,490
8	Concrete Sidewalk	138	SY	\$ 70	\$ 9,660
9	Curb Ramps	4	EA	\$ 3,000	\$ 12,000
10	Water Line Replacement	207	LF	\$ 100	\$ 20,700
11	Water Valve Replacement	-	EA	\$ 2,500	\$ -
12	Fire Hydrant Replacement	2	EA	\$ 5,000	\$ 10,000
13	Sewer Line Replacement	-	LF	\$ 150	\$ -
14	Sewer Manhole Replacement	-	EA	\$ 10,000	\$ -
15	Storm Drain	-	LF	\$ 97	\$ -
SUBTOTAL					\$ 324,565
CONTINGENCY 15%					\$ 48,685
SUBTOTAL					\$ 373,250
MOBILIZATION 5%					\$ 18,662
SUBTOTAL					\$ 391,912
PROJECT TOTAL (2022 COSTS)					RECONSTRUCTION \$ 391,912



Project #2 100 Block of South Belknap

BELKNAP (COLLEGE TO WASHINGTON)		ESTIMATED RECONSTRUCTION COST			
ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL
1	Remove, Clean and Palletize Existing Bricks	1,325	SY	\$ 45	\$ 59,625
2	Remove Existing Base	1,325	SY	\$ 8	\$ 10,600
3	Remove Existing Concrete Curb & Gutter	530	LF	\$ 15	\$ 7,950
4	Cement Stabilized Subgrade	1,325	SY	\$ 10	\$ 13,250
5	6" Concrete Pavement	1,325	SY	\$ 115	\$ 152,375
6	Install Brick Pavement	1,325	SY	\$ 65	\$ 86,125
7	Concrete Curb & Gutter	530	LF	\$ 35	\$ 18,550
8	Concrete Sidewalk	377	SY	\$ 70	\$ 26,390
9	Curb Ramps	4	EA	\$ 3,000	\$ 12,000
10	Water Line Replacement	265	LF	\$ 100	\$ 26,500
11	Water Valve Replacement	4	EA	\$ 2,500	\$ 10,000
12	Fire Hydrant Replacement	1	EA	\$ 5,000	\$ 5,000
13	Sewer Line Replacement	63	LF	\$ 150	\$ 9,450
14	Sewer Manhole Replacement	-	EA	\$ 10,000	\$ -
15	Storm Drain	-	LF	\$ 97	\$ -
SUBTOTAL					\$ 423,835
CONTINGENCY 15%					\$ 63,575
SUBTOTAL					\$ 487,410
MOBILIZATION 5%					\$ 24,369
SUBTOTAL					\$ 511,779
PROJECT TOTAL (2022 COSTS)					RECONSTRUCTION \$ 511,757



Legend

- Water Line
- Sewer Line
- Roads



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