



MUSCATINE CITY COUNCIL

Agenda Item Summary – Regular Meeting

Date November 4, 2021

STAFF

Brian Stineman, Public Works Director / Pat Lynch, City Engineer

SUBJECT

Request to Enter into a Professional Services Agreement with Martin & Whitacre Surveyors & Engineers, Inc.

EXECUTIVE SUMMARY

Presented for City Council’s consideration is a request to enter into a Professional Services Agreement with Martin & Whitacre Surveyors & Engineers, Inc. in the amount of \$29,996.25 for assistance with the design, preparation of construction documents and soliciting bids for the High Intensity Activated Crosswalk (HAWK) pedestrian crossing at Earl Avenue and Oregon Street, which is part of the South End Community Fund Improvement Projects (SCIP). The improvements were vetted through public meetings, Parks and Recreation Advisory Commission meetings and past project requests received from the Muscatine Community.

STAFF RECOMMENDATION

Staff recommends City Council approve the request to enter into a Professional Services Agreement with Martin & Whitacre Surveyors & Engineers, Inc. in the amount of \$29,996.25 for assistance with the design, preparation of construction documents and soliciting bids for the HAWK pedestrian crossing at Earl Avenue, which is part of the South End Community Fund Improvement Projects (SCIP).

BACKGROUND/DISCUSSION

City staff worked in collaboration with a steering committee to develop concepts for recreational and street crossing improvements in the south end portion of the Muscatine community. The steering committee requested that City staff review certain aspects of general park and specific street crossing improvements. City staff reviewed the request and evaluated the City’s current and foreseeable future plans. The staff evaluation included reviewing past City department budget requests, the current City Capital Improvement Plan, the City Comprehensive Plan and current citizen requests for public property infrastructure upgrades in the designated region of Muscatine.

Over the past several months, the Muscatine Parks and Recreation Advisory Commission at its public meetings discussed the donation and the potential elements that would meet the request from the donation steering committee and the needs of the community. Additionally, a public meeting was held at Taylor Park on Wednesday, September 29th and the Parks and Recreation Advisory Commission met

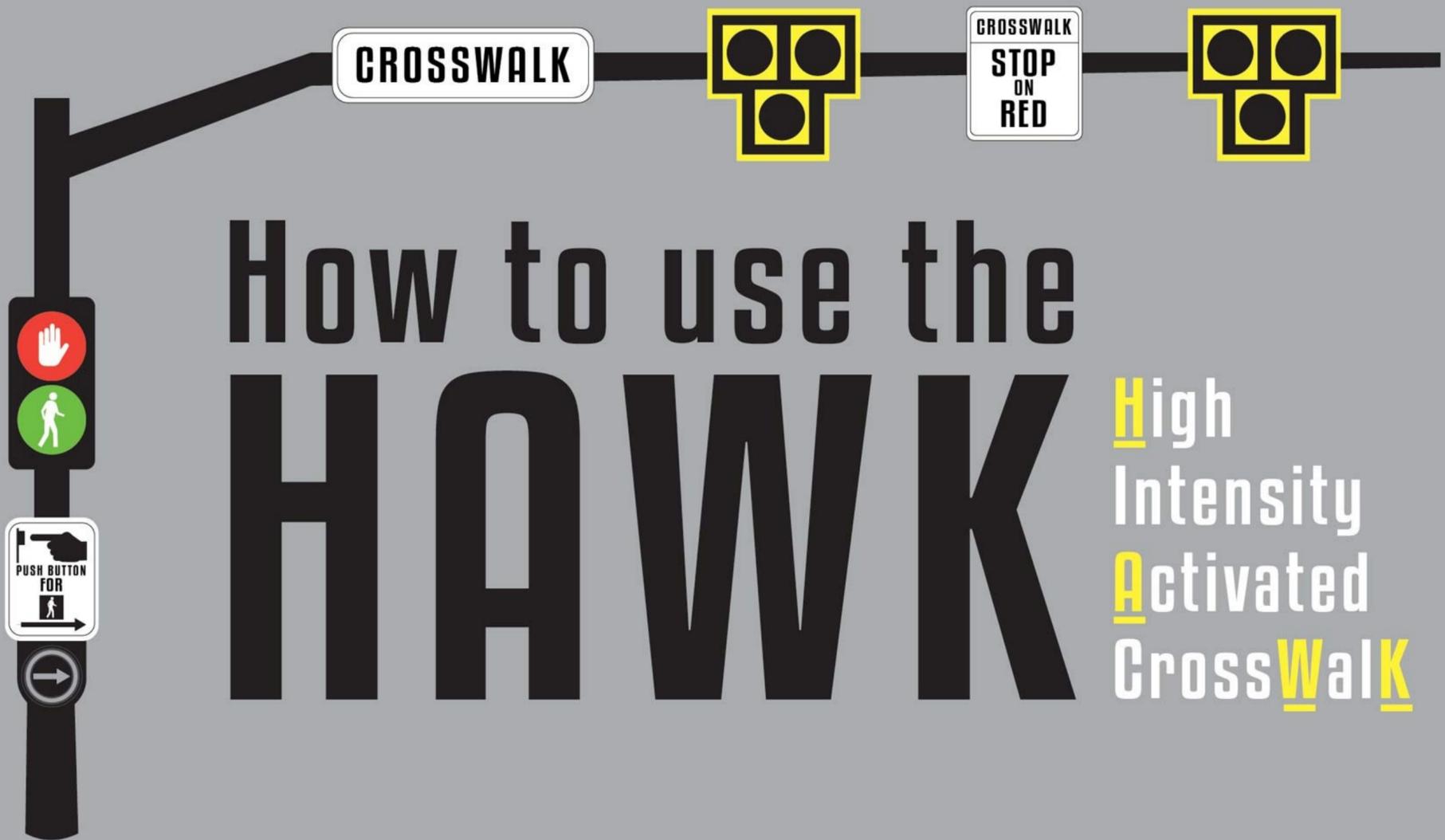
on Wednesday, October 6th to endorse the funding plan. City Council voted in favor of moving forward with these improvements at the October 7th City Council meeting.

CITY FINANCIAL IMPACT

The cost for design and construction of the proposed improvements will be funded through a private donation of approximately \$2,000,000. The development of the projects will result in additional maintenance attention needed in the designated parks improved by the fund. An accurate dollar amount of the additional maintenance costs will not be available until the design phase is complete. The maintenance cost impact will be minimized through the design process as much as possible.

ATTACHMENTS

- Martin & Whitacre Surveyors & Engineers, Inc. Proposal
- Information on HAWK pedestrian crossing system



How to use the HAWK

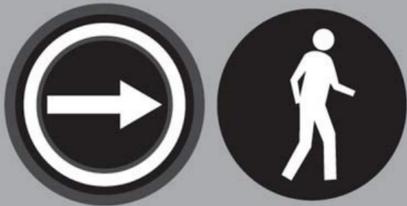
High
Activated
Cross**W**alk

PEDESTRIANS



SEE THIS

DO THIS



**PUSH THE
BUTTON**



STOP & WAIT
for the WALK signal.



START CROSSING
Always watch for cars.



**FINISH
CROSSING**

DRIVERS



SEE THIS

DO THIS



DRIVE

Always look for people
who plan to cross.



FLASHING

SLOW DOWN

A person has activated
the push button.



**PREPARE TO
STOP**



STOP
for pedestrian.
(As with any signal
RED means STOP)



FLASHING

STOP FIRST

Proceed with caution
if no people are present.



Martin & Whitacre Surveyors & Engineers, Inc.

Gary Whitacre – President
Matt Krause – Vice President
Seth Whitacre – Sec./Treas.

August 30, 2021

Mr. Pat Lynch, P.E., City Engineer
City of Muscatine
1459 Washington Street
Muscatine, IA 52761

**SUBJECT: Proposal for Professional Services – Oregon St. and Earl Ave. Intersection
Improvements
Muscatine, IA**

Dear Pat:

In accordance with our past conversations, Martin & Whitacre Surveyors & Engineers, Inc. (MW) is pleased to submit this proposal for professional engineering services.

SCOPE OF WORK

The City of Muscatine (CLIENT) desires MW to provide professional surveying and engineering services for intersection improvements at the intersection of Oregon Street and Earl Avenue in Muscatine, Iowa. The City of Muscatine is looking to add a signalized crosswalk across Oregon Street on the south side of the intersection and improve all 4 corners of the intersection with ADA compliant pedestrian ramps. The City has requested that the signals utilize ELTEC's HAWK signal system, if possible. It is assumed that there will be signal pole and mast arm at the northeast corner and southwest corner of the intersection with stop lights facing north and south on Oregon Street only. Earl Avenue's traffic will remain controlled by stop signs. Pedestrian signal heads and push buttons will be located at both ends of the proposed crosswalk mounted on the proposed southwest signal pole and the existing power pole at the southeast corner of the intersection. The HAWK system can be powered by electricity or solar power and the City has requested that it be bid with solar as an alternative to the base bid. Soil borings and structural foundation design will be required for the two signal pole foundations which will be provided by Terracon and Select Structural. There appears to be an adequate amount of right of way to keep the proposed improvements and construction limits within the existing right of way so temporary construction easements, permanent easements, and right of way are not anticipated to be needed as part of this contract. The scope of services includes topographic surveying, boundary surveying to determine the right of way limits, ADA pedestrian ramp design at all four corners of the intersection, signal design, plan preparation, and front end documents. No storm, sanitary, or water improvements are assumed to be included in this scope of services. Design will be in accordance with the City of Muscatine standard specifications and/or SUDAS standards. MW will provide professional surveying and engineering design services as discussed below.

BASIC SERVICES

Upon acceptance of this Proposal, MW will perform the following Basic Services summarized below:



1. SURVEYING:

- Horizontal and vertical control points will be utilized for both boundary and topographic survey work.
- Locate physical features of approximately 0.3 acre project area described above including the intersection and 25 feet beyond the project limits described above to the north, west, south, and east.
- Draft existing topographic data including contours at 1 foot intervals, vegetation, roadways, sidewalks, etc.
- Coordinate with Iowa One Call, the City, and Utility Companies to locate existing utility facilities on or within 25 feet of the project area that may affect the subject property.
- Improvements are assumed to be contained within the existing right-of-way and right of way, temporary easements, and permanent easements will be not be required on the project.

2. PRELIMINARY PLANS:

- Perform the engineering design and prepare the preliminary construction plans for the ADA design and signalization design including signage and pavement markings.
- Signalization design includes two soil borings by Terracon, foundation design by Select Structural, and signal plans with details.
- Any electrical engineering for power to signals if not solar powered is assumed to be provided by MPW as part of their services to the City.

3. FINAL CONSTRUCTION PLANS:

- Perform the engineering design and prepare the construction plans for the ADA design, signalization design, signage, and pavement markings for the project area described above which will include site plan, signal plans, signage and pavement marking plan, and details. ADA design assumes IDOT S-Sheets are not required. If required, additional services will be required.
- Send copies of the construction plans to the City for review and revise the plans contingent upon the City staff report.
- Determine the construction quantities, prepare front end documents for the project including contract documents, specifications, and special provisions. Provide 2 copies of the construction plans for bidding purposes, if necessary.
- Attend one meeting with City staff to discuss the project.

RESPONSIBILITIES OF CLIENT

The CLIENT shall:

- Provide full information regarding its requirements for the Project.
- Designate an authorized representative to act on its behalf with respect to the Project.
- Provide direction as necessary with regards to the layout and configuration of the proposed improvements.
- Be responsible for permit, application, publication and filing fees.

COMPENSATION

We propose to provide the services described above on a lump sum basis.

The Engineering Fee for services performed in 2021 for the above basic services as follows:

1.	Surveying:	Lump Sum:	\$ 5,950.00
2.	Preliminary Plans:	Lump Sum:	\$ 11,975.00
3.	Final Construction Plans:	Lump Sum:	\$ 13,650.00
		Subtotal:	\$ 31,575.00
		5% Discount:	\$ (1,578.75)
		Total:	\$ 29,996.25

ADDITIONAL SERVICES

Martin & Whitacre can include the following as additional services. Additional services will be performed on a time and material basis using Martin & Whitacre's standard hourly rates in effect at the time the service is performed, or for a negotiated fee, and only after approved in writing.

1. Land acquisition services and platting.
2. Electrical engineering.
3. Geotechnical engineering other than soil borings.
4. Structural engineering other than signal pole foundation design.
5. Landscaping design.
6. Bidding services.
7. Platting services.
8. Traffic study.
9. Sanitary sewer, storm sewer, and water main design services and permitting.
10. Construction services such as administration, observation, materials testing, and layout.
11. Surveying, platting, and engineering services outside of the scope described above.



**Martin & Whitacre
Surveyors & Engineers, Inc.**

Gary Whitacre – President
Matt Krause – Vice President
Seth Whitacre – Sec./Treas.

GENERAL

This Proposal is valid for 45 days from the date of this offer.

We will begin our services following acceptance of this Proposal for Engineering Services. We look forward to working with you and your staff on this project and appreciate this opportunity to be of service. Acceptance may be conveyed via e-mail to the address listed below or by signing this offer and returning it to our office.

Sincerely,

MARTIN & WHITACRE SURVEYORS & ENGINEERS, INC.

Michael W. Janecek, P.E.
Sr. Civil Engineer
mjanecek@martin-whitacre.com

CITY OF MUSCATINE, IOWA

Accepted:

Diana L. Broderick (Nov 9, 2021 15:16 CST)

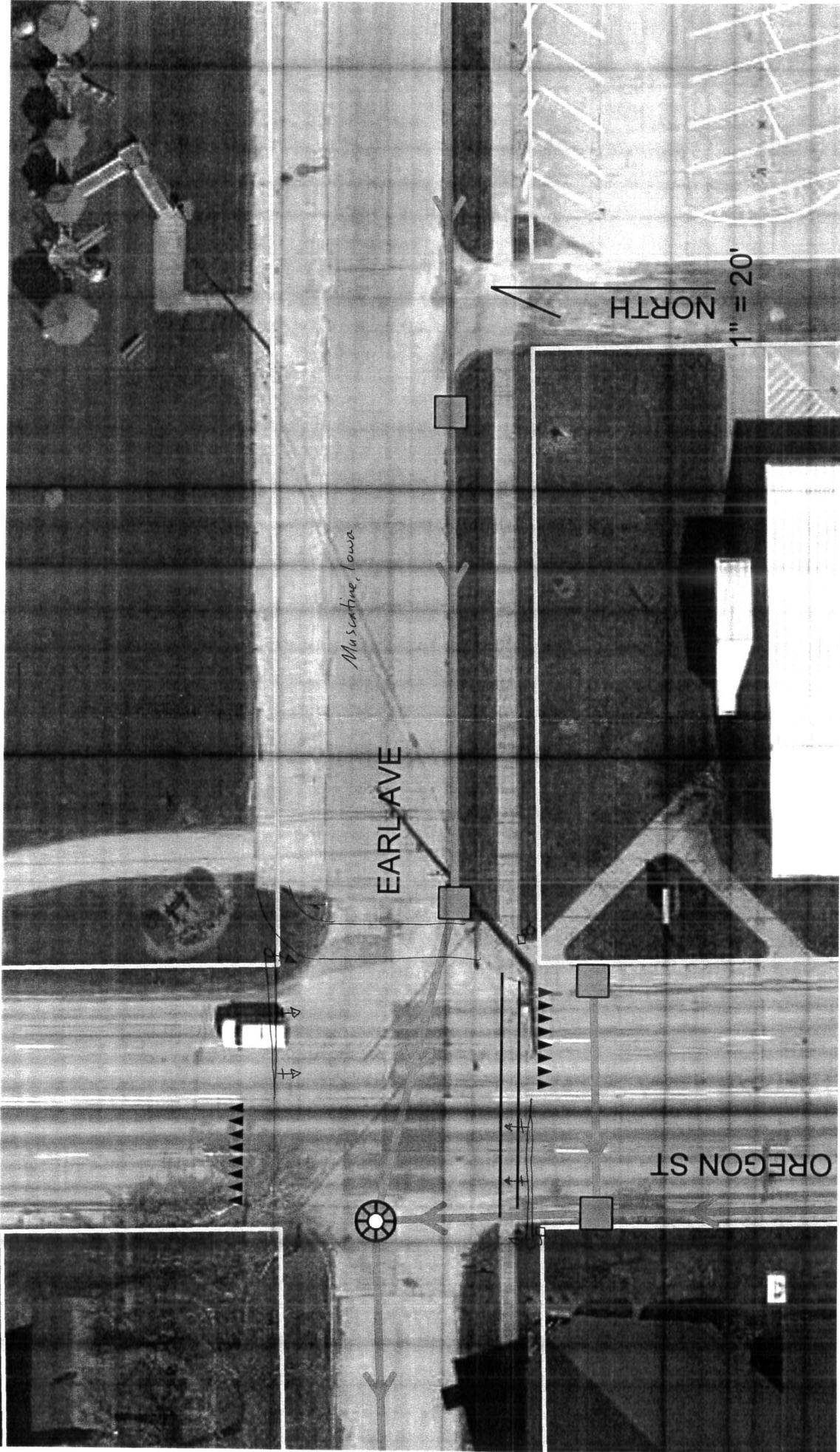
Signature

Mayor

Title

Nov 9, 2021

Date



Mascatine, Iowa

EARLE AVE

OREGON ST

1" = 20'
NORTH

