



City Hall, 215 Sycamore St.
Muscatine, IA 52761-3840
(563) 262-4141
Fax (563) 262-4142

COMMUNITY DEVELOPMENT

MEMORANDUM

Planning,
Zoning,
Building Safety,
Construction Inspection Services,
Public Health,
Housing Inspections,
Code Enforcement

To: Mayor and City Council Members

From: Andrew Fangman, City Planner

Cc: Gregg Mandsager, City Administrator
Richard Klimes, Director of Parks and Recreation
Dave Gobin, Community Development Director

Date: October 4, 2018

Re: Request Approval to Purchase Rapid Rectangular Flashing Beacons

Introduction

Please accept this memo and the attached information as a request to purchase three rapid rectangular flashing beacons (RRFBs) pedestrian crossing signs as part of the Houser Street Parking Expansion and Athletic Field Grading Project.

Background

The Houser Street Parking Expansion and Athletic Field Grading Project consists of the construction of a 203-spot parking lot, three enhanced pedestrian crossings of Houser Street, and the grading of four field areas; on a site located along Houser Street across from Kent Stein Park and the Muscatine Soccer Complex. This project is funded by a grant from the Roy J. Carver Charitable Trust and by the City of Muscatine as approved in the last budget cycle. The land that this project is being constructed on was gifted to the City of Muscatine, for the purposes of this project by the Kent Corporation Charitable Foundation.

The primary users of the parking lot, that is being constructed, will be those attending events at the existing soccer complex on the other side of Houser. During a busy day at the soccer complex this will lead to hundreds of pedestrians of this stretch of Houser. Getting pedestrians safely across Houser is vital part the project. Additionally, with the construction of the Kent-Stein to Deep Lakes Park Trail, the Pollinator Park, the Pollinator Park Trail, and the Dog Park, and 2019 the Westside Trail; all of which are located on the west side of Houser Street. There will be significant number of bikes and pedestrians crossing Houser Street at the trail crossing located just between Kent-Stein Park and the southern entrance to the parking lot being constructed as part of the Houser Street Parking Expansion and Athletic Field Grading Project.

This project proposes to create three enhanced pedestrian crossings of Houser Street, though the installation of RRFBs at three locations along Houser Street. These crossing will make use of rectangular rapid flash beacons (RRFBs), which are user-actuated amber LEDs that supplement warning signs at unsignalized intersections or mid-block crosswalks. They are activated by pedestrians manually. Research has found that RRFBs increased yielding of vehicles yielding to pedestrians in a crosswalk from 18 percent to 88 percent.

In 2015 the City of Muscatine installed an RRBF on Colorado Street at the trail crossing near the entrance to Weed Park. Since the installation of this RRBF the feedback on its effectiveness has been overwhelmingly positive.



Example of an RRFB

Additionally, one of the requirements in Roy J. Carver Charitable Trust Grant that is partially funding the Houser Street Parking Expansion and Athletic Field Grading Project is enhancing safety for pedestrians and bicyclists crossing the stretch of Houser Street at the three identified locations. The installations of these RRFB's will fulfill this obligation.

Recommendation

Staff recommends that City Council approve a purchase order in the amount of \$21,719.04 to TAPCO for the purchase of three RRFBs. TAPCO was the lowest of three quotes received.

The approved project budget allowed for \$21,000 for this item.

Recommendation

1. Quote from TAPCO
2. Quote from Mobotrex
3. Quote from General Traffic Controls
4. Project map



SALES QUOTE

Customer Copy

Number	Q1809166
Date	9/11/2018
Page	1

5100 West Brown Deer Road • Brown Deer, WI 53223
 Phone (800) 236-0112 • tapconet.com • Fax (800) 444-0331

Sell To Cust. C14500	City of Muscatine Richard Klimes 1459 Washington St. Muscatine, IA 52761 USA	Ship To Cust.	City of Muscatine Richard Klimes 215 Sycamore St MUSCATINE, IA 52761 USA					
			Customer PO #	Expires	Slip	Terms	Freight	Ship Via
			RRFB	10/11/2018	Deidre Jones	Net 30 DAYS	PREPAID	BEST RATE

Item	Description	Quantity	UM	Price	Extension
600147	Double-Sided RRFB: RRFB, Solar 55/48, Radio, SOP, DS, Amber, PB, H Pole X2	3	EA	5,596.00	\$16,788.00
500029	12V RRFB Radio WW+S	6	Each		
2180-BRKT-R	Cabinet Bracket Set, Fits Round Poles 2-3/8 & Up.	6	Each		
101494	Battery, DEKA Solar 12V 48Ah VRLA	6	Each		
SLR-55-B	55W/12V Solar Panel Package,	6	Each		
101620	Push Button Bulldog Add-On Option Kit	6	KIT		
136760	Wire Harness, RRFB, 10' of 4C	12	Each		
136761	RRFB - Amber Light Bar,	12	Each		
138079	Bracket Mounting Kit,RRFB,Universal,	12	Each		
373-05075	W11-2,30"x30"x.080 DG3 FYG,Pedestrian Crossing (Symbol) Fed Spec - Fluorescent Yellow-Green Sign	12	EA	105.16	\$1,261.92
373-01759	W16-7PL,24"x12" DG3 FYG,Down Diagonal Left Arrow (Fed Spec) Sign	6	EA	33.80	\$202.80
373-01757	W16-7PR,24"x12" DG3 FYG,Down Diagonal Right Arrow (Fed Spec) Sign	6	EA	33.80	\$202.80
107265	Sign Mounting Kit, Banded, Flared Leg, Standard For Mounting B2B Static Signs to a Large Pole	12	EA	31.96	\$383.52
101919	Pole Package, 13', 4.5" OD, 42" J-Bolts Includes: Pole, Base,J-Bolts	6	EA	480.00	\$2,880.00
373-13	Standard Aluminum Pole, 13' Schedule 40	6	Each		
203-00014	Base,Aluminum Square Pedestal, No Paint	6	Each		
3177-00042	J-Bolt,1"x 42"+4" ATSM F1554 GR-105 92k	24	Each		

Shipment within _____
 Acceptance By _____
 Date _____
 By _____

Merchandise	Freight	Tax	Total
\$21,719.04	\$0.00	\$0.00	\$21,719.04

For terms and conditions, please visit: <http://www.tapconet.com/terms-and-conditions>



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Page	2

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Customer PO #	Expires	Slip	Terms	Freight	Ship Via
RRFB	10/11/2018	Deidre Jones	Net 30 DAYS	PREPAID	BEST RATE

Item	Description	Quantity	UM	Price	Extension
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030-00006	Washer Flat 1-1/16"ID x2.5OD"x.125" Galvanized	24	Each		
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Total: \$8,527.77

****Includes Shipping****
 Lead time: 2-4 Weeks

Furnish only quote. Installation is not included.
 Solar powered equipment requires no shading
 or obstructions

Thank you! Deidre Jones
 Email: Deidre.jones@tapconet.com
 Phone: 262-649-5227

TAPCO US Communities Contract # 2013-100

****Prices based on quantity. If quantity changes,
 pricing is subject to change****

Shipment within _____
 Acceptance By _____
 Date _____
 By _____

Merchandise	Freight	Tax	Total
\$21,719.04	\$0.00	\$0.00	\$21,719.04

For terms and conditions, please visit: <http://www.tapconet.com/terms-and-conditions>

Quote Number: 1066730

109 West 55th Street | Davenport, IA 52806 | (563) 323-0009

Customer: MUS0003
 Klimes, Richard
 Muscatine, City Of
 City Hall
 215 Sycamore Street
 Muscatine IA 52761-3899
 United States

Date: 09/14/2018
Expire Date: 10/15/2018
Prepared By: Zank, Justin D.

Contact: Klimes, Richard
Phone: (563)263-0241
Fax: (563)264-0750
Email: rklimes@muscatineiowa.gov

Description: RRFB system with Poles and Signs

Part #	Description	Quantity	Price	Extended
PMT10294-001	ENGINE:R920-E,SOL,BLK	6	\$4,079.00	\$24,474.00
PMR09039-002	POST MNT,R920,4"-4.5",BLACK	6	\$0.00	\$0.00
CAR-68326	BATTERY:7A/HR,EXT TEMP,(E SERIES)	12	\$0.00	\$0.00
PBL09289-001	LIGHTBAR+CONFIRM(BOTH ENDS)+MNT,BLK,R920	12	\$0.00	\$0.00
PBW09472-005	Light Bar Harness, 16',R920	12	\$0.00	\$0.00
POL-BDL3-Y	Bulldog III pushbutton (Yellow body)	6	\$0.00	\$0.00
PBW10290-001	HARNES:16',PB,LED MOD/SIGN	6	\$0.00	\$0.00
POL-PBF-9 X 12-Y	YELLOW 9 X 12 pushbutton frame	6	\$0.00	\$0.00
CAR-69982	9 x 12 MUTCD Compliant Pushbutton Sign (6	\$0.00	\$0.00
PB-5100-13-PNC	Pole, 4"- 8 NPT TOE, Sch 40 x 13', Spun w/ Pelican, Alum	6	\$0.00	\$0.00
PMR08313-002	BASE ASSY: SQUARE,ALUM,W/ALUM DOOR	6	\$0.00	\$0.00
PMR07804-001	COLLAR ASSY,ALUM,SQUARE BASE	6	\$0.00	\$0.00
W11-2 Pedestrian Sign	30" x 30" Fluorescent Yellow Green	12	\$0.00	\$0.00
W16-7P Arrow Right	24" x 12" Fluorescent Yellow Green	6	\$0.00	\$0.00
W16-7P Arrow Left	24" x 12" Fluorescent Yellow Green	6	\$0.00	\$0.00

Sale Amount:	\$24,474.00
Sales Tax:	0.00
Misc Charges:	0.00
Total Amount:	\$24,474.00

Notes:
 Shipping included

Terms:

THIS QUOTE IS BASED ON THE ENTIRE VALUE AND VOLUME OF ALL LINE ITEMS - Prices listed on this quote are valid only in the event of purchase of all line items in the quantities listed, in their entirety. Purchases of individual line items will require a new quote prior to acceptance of any purchase orders.

Shipment of the material will be approximately 90 days after receipt of both an acceptable purchase order and approved submittal data if required. PAYMENT TERMS ARE NET 30 DAYS with prior approved credit. MoboTrex, Inc. retains title to material until paid in full. A service charge of 1.5% per month (18% annual rate) will be assessed against all past due accounts. Prices and delivery quoted are firm for 30 days from the data of bid. The above quote does not include installation of the products quoted. On-Site technical assistance is available and will be quoted upon request.

Quotation does not include sales tax. Sales tax will be added at time of invoice unless a valid Sales Tax Exempt certificate has been provided. Sales tax exempt certificate should accompany customer Purchase Order.

Limited Warranty: MoboTrex, Inc. only obligations shall be to replace such quantity of the product proven to be defective.

Warranty Period: The length of warranty manufacturers have conveyed to the seller and which can be passed on to the buyer.

Additional terms and conditions apply - See MoboTrex, Inc. Terms & Conditions document at our website: www.mobotrex.com.

Thank you for the opportunity to provide this quote.



ATTN: Richard
City of Muscatine

QUOTATION NO: 5948
DATE: 9/17/2018

PROJECT: Solar RRFB Crossing

TERMS: Net 30 days

TAXABLE: No

DELIVERY: 30-45 days ARO

FOB: Destination

FREIGHT: Prepaid

We are pleased to submit the following quotation:

ITEM	QTY	DESCRIPTION	UNIT PRICE	EXTEND PRICE
001	3	RRFB System Including: (2) 5-light RRFB, (2) Flasher Cabinet, (2) Pushbuttons & Signs, (2) Solar Panel, (2) Batteries, (4) S1-1 Sign (4) W16-7p Sign, Sign Brackets-no banding. (2) 13' Pedestal Pole, Base, Bolts	\$8,425.00	\$25,275.00
Total Above Equipment				\$25,275.00

Customer is responsible for installation of above equipment.

*RRFB bars and flasher cabinet will be painted black, per customer request.

*This is solar sized for Muscatine to provide a minimum of 13 day battery autonomy.

General Traffic Controls, Inc retains title to all equipment until paid in full.

All past due accounts are subject to a 1.5% per month service charge.

Prices subject to review 30 days from above date.

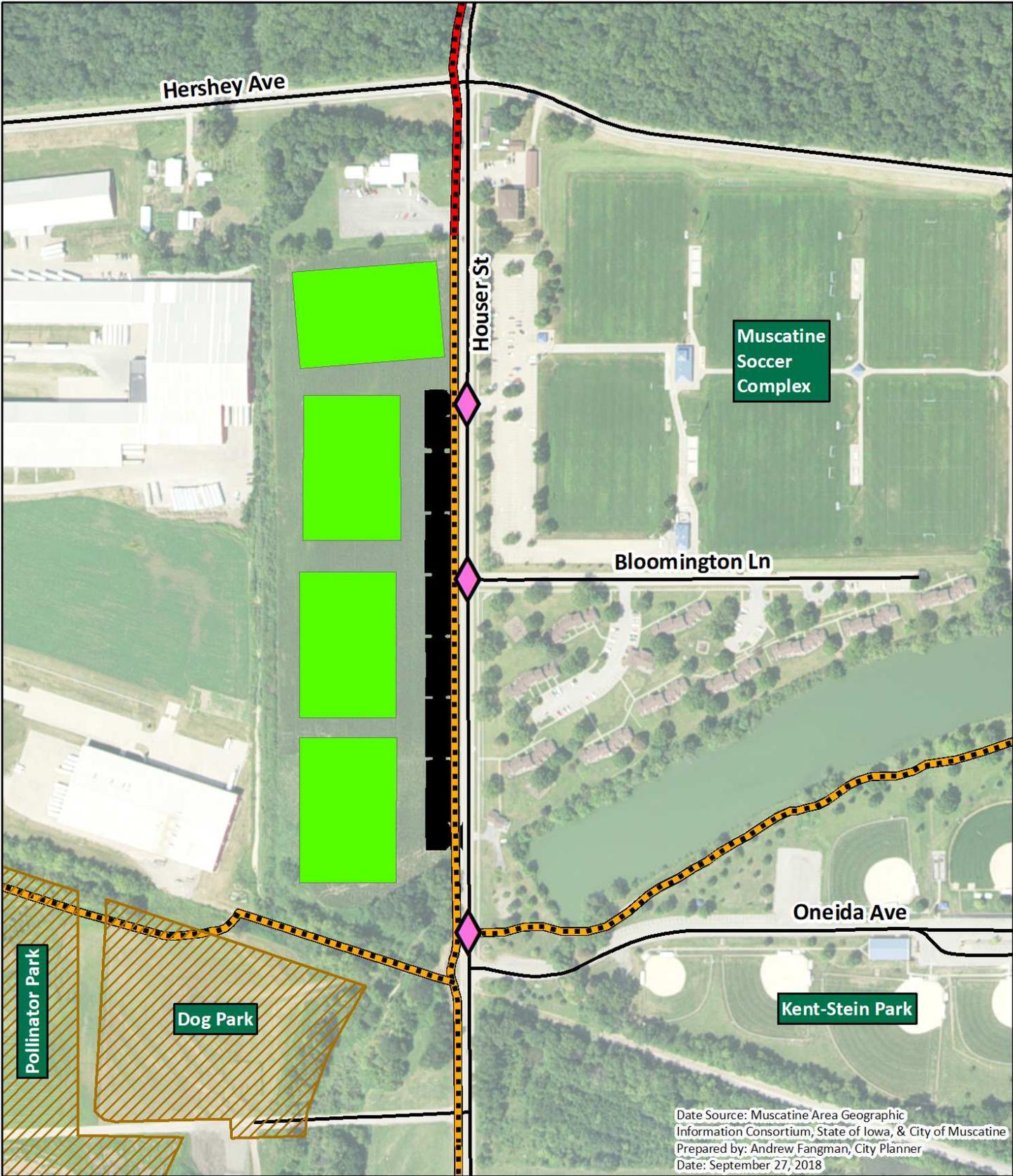
Should we be favored with your order, it will receive our prompt, personal attention.

THANK YOU!

Very truly yours,

GENERAL TRAFFIC CONTROLS, INC.

Tammy O'Brien



Date Source: Muscatine Area Geographic Information Consortium, State of Iowa, & City of Muscatine
 Prepared by: Andrew Fangman, City Planner
 Date: September 27, 2018

Legend

-  Enhanced Pedestrian Crossings
-  New 203-Spot Parking Lot
-  New Athletic Fields
-  Westside Trail Route
-  Existing Multi-Use Trails

Houser Street Parking Expansion and Athletic Field Grading Project

