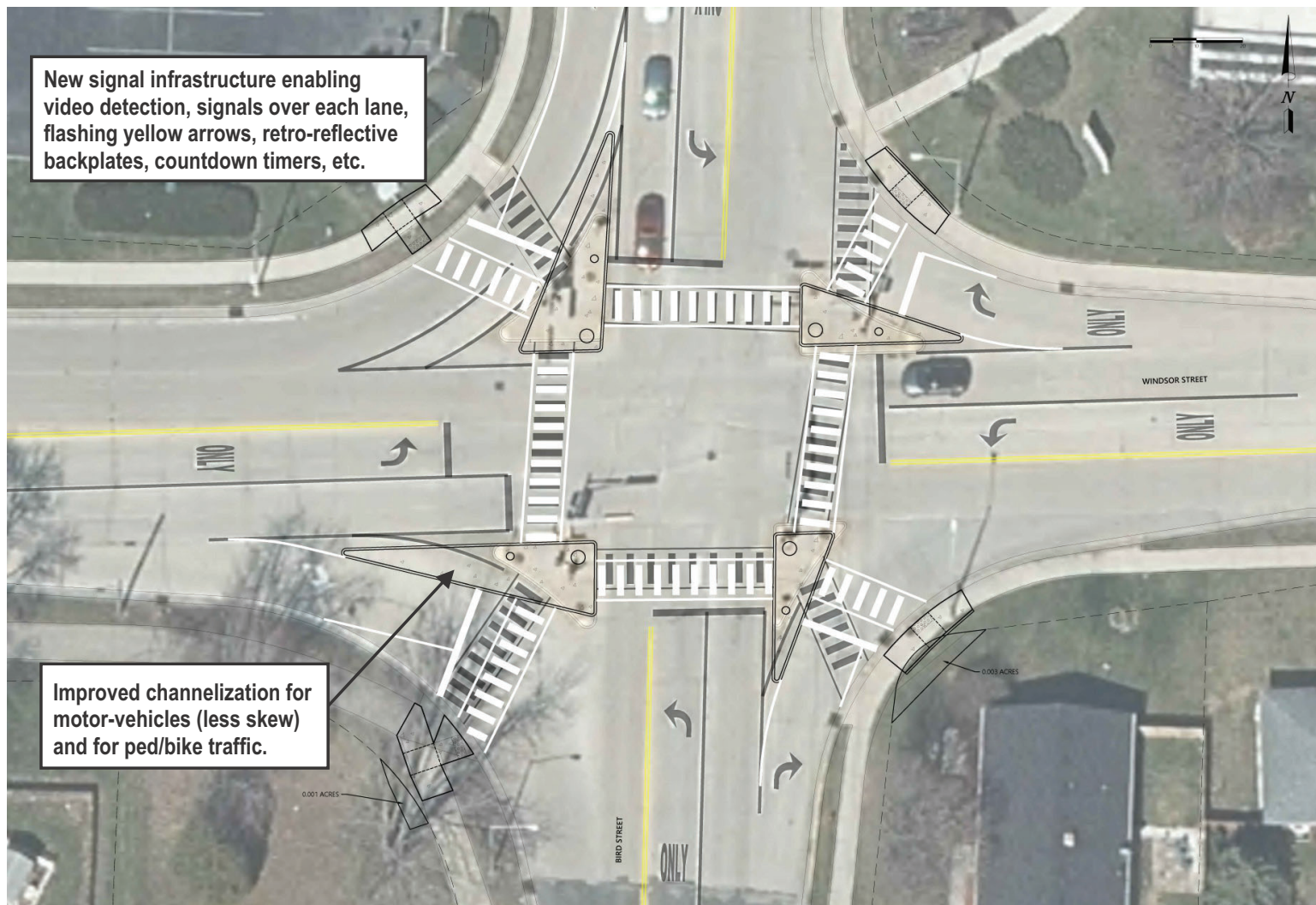


NOT TO SCALE

## 1. Project Identification

**PROJECT LOCATION MAP**  
**INTERSECTION OF STH 19/WINDSOR STREET AT N. BIRD STREET**  
**SUN PRAIRIE, WISCONSIN**



NOT TO SCALE

### 3a. Project Description

CONCEPTUAL DRAWING  
INTERSECTION OF  
WINDSOR STREET/STH 19 &  
N. BIRD STREET  
SUN PRAIRIE, WISCONSIN



5-face signal on metal pole with pedestrian walk/don't walk indicators



3-face signal on metal pole



Multiple signal heads on metal pole with trombone arm and pedestrian countdown timer  
(Ped timer - NW corner only)



### 3b. Existing Conditions

**SITE PHOTOS**  
**INTERSECTION OF STH 19/WINDSOR STREET AT N. BIRD STREET**  
**SUN PRAIRIE, WISCONSIN**

Signal head attached  
to deteriorating metal signal pole



Signal heads  
attached to metal signal pole  
that has trombone arm



### 3b. Existing Conditions

**SITE PHOTOS**  
**INTERSECTION OF STH 19/WINDSOR STREET AT N. BIRD STREET**  
**SUN PRAIRIE, WISCONSIN**



Traditional metal signal pole  
attached to concrete base



**3b. Existing Conditions**

**SITE PHOTOS**  
**INTERSECTION OF STH 19/WINDSOR STREET AT N. BIRD STREET**  
**SUN PRAIRIE, WISCONSIN**



Deteriorated,  
non-ADA compliant  
curb ramps



**3b. Existing Conditions**

**SITE PHOTOS**  
**INTERSECTION OF STH 19/WINDSOR STREET AT N. BIRD STREET**  
**SUN PRAIRIE, WISCONSIN**



Pedestrian push buttons:  
Older button on right side of pole



Signal with walk/don't walk  
pedestrian signal  
(no countdown timer)



Signal with pedestrian  
countdown timer  
(Ped timer - NW corner only)



3b. Existing Conditions

**SITE PHOTOS**  
**INTERSECTION OF STH 19/WINDSOR STREET AT N. BIRD STREET**  
**SUN PRAIRIE, WISCONSIN**



## Loop detection locations have deteriorating pavement



NOT TO SCALE

### 3b. Existing Conditions

**SITE PHOTOS**  
**INTERSECTION OF STH 19/WINDSOR STREET AT N. BIRD STREET**  
**SUN PRAIRIE, WISCONSIN**



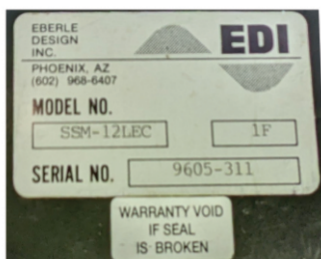


Existing signal controller cabinet is in good condition

Controls have phone connections for master control



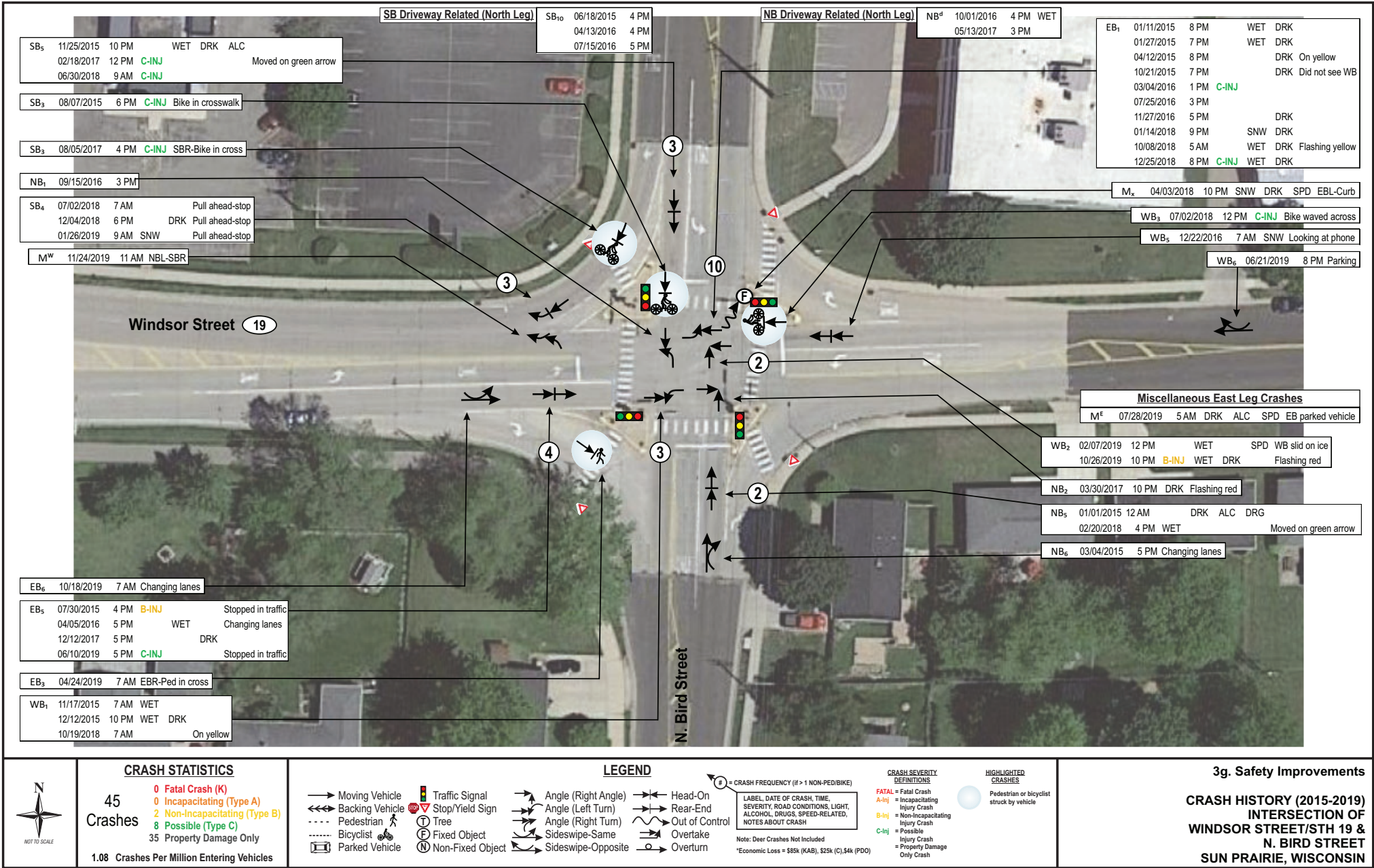
It is recommended that video detection be installed and the EPAC 300 and MARC 300 be replaced with an EPAC M60



### 3b. Existing Conditions

**SITE PHOTOS**  
**INTERSECTION OF STH 19/WINDSOR STREET AT N. BIRD STREET**  
**SUN PRAIRIE, WISCONSIN**







# COST SUMMARY

Design:	\$	67,215
Real Estate:	\$	2,500
Construction:	\$	496,800
Total Project Cost:	\$	566,515

Municipal Funding (10%\*): \$ 56,402

\* 10% of Design and Construction Cost

<b>SIGNAL ITEMS</b>			
Conceptual Cost Estimate			
Bird Street at Windsor Street			
Sun Prairie, WI			
4/8/2021			
Item	Quantity	Unit Price	Total
Remove existing signal items	1	\$ 6,000.00	\$ 6,000.00
Overhead signals w/monotube arms	4	\$ 24,000.00	\$ 96,000.00
Signal standards	4	\$ 2,250.00	\$ 9,000.00
Vehicular signal heads	20	\$ 925.00	\$ 18,500.00
Pdestrian signal heads	8	\$ 675.00	\$ 5,400.00
Pedestrian push buttons	8	\$ 625.00	\$ 5,000.00
Replacement wiring and misc. repairs	1	\$ 49,500.00	\$ 49,500.00
Traffic signal controller and cabinet	1	\$ 22,000.00	\$ 22,000.00
Video vehicle detection	1	\$ 24,000.00	\$ 24,000.00
Street lighting adjustments	1	\$ 4,000.00	\$ 4,000.00
Mobilization	1	\$ 15,000.00	\$ 15,000.00
Traffic control	1	\$ 8,500.00	\$ 8,500.00
Temporary signals	1	\$ 30,000.00	\$ 30,000.00
Contingencies	10%		\$ 29,290.00
Design Engineering	15%		\$ 43,935.00
Construction Engineering	10%		\$ 29,290.00
Total			\$ 389,415.00

#### 4. Project Cost

**TRAFFIC SIGNAL WORK**  
**INTERSECTION OF STH 19/WINDSOR STREET AT N. BIRD STREET**  
**SUN PRAIRIE, WISCONSIN**



**CONCEPTUAL COST ESTIMATE FOR:**

**N. Bird Street & Windsor Street**

**CITY OF SUN PRAIRE**

**DANE COUNTY**

**April 8, 2021**

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
<b>REMOVALS</b>					
1	CONCRETE PAVEMENT REMOVAL	SY	205	\$10.00	\$2,050
2	CURB REMOVAL	LF	520	\$4.00	\$2,080
3	SIDEWALK REMOVAL	SF	2,000	\$3.00	\$6,000
4	REMOVING CONCRETE BASES	EA	4	\$500.00	\$2,000
<b>REMOVALS SUBTOTAL COST</b>					<b>\$12,100</b>
<b>EARTHWORK</b>					
5	COMMON EXCAVATION	CY	250	\$50.00	\$12,500
<b>EARTHWORK SUBTOTAL COST</b>					<b>\$12,500</b>
<b>PAVING ITEMS</b>					
6	FULL DEPTH SAW CUT	LF	1,000	\$3.00	\$3,000
7	CONCRETE PAVEMENT 8"	SY	160	\$100.00	\$16,000
8	CONCRETE SIDEWALK 4"	SF	1,200	\$7.00	\$8,400
9	BASE AGGREGATE DENSE, 1 1/4-INCH	TON	220	\$25.00	\$5,500
10	SELECT CRUSH MATERIAL	TON	220	\$25.00	\$5,500
11	CONCRETE CURB & GUTTER	LF	580	\$40.00	\$23,200
<b>PAVING ITEMS SUBTOTAL COST</b>					<b>\$61,600</b>
<b>ROADWAY SUBTOTAL COST</b>					<b>\$86,200</b>
<b>MISC ITEMS</b>					
12	DRAINAGE / STORM SEWER	LS	5%	OF ROADWAY SUBTOTAL	\$4,310
13	TRAFFIC CONTROL / STAGING	LS	10%	OF ROADWAY SUBTOTAL	\$8,620
14	EROSION CONTROL / RESTORATION	LS	3%	OF ROADWAY SUBTOTAL	\$2,586
15	LIGHTING	LS	0%	OF ROADWAY SUBTOTAL	\$0
16	SIGNING / MARKING	LS	2%	OF ROADWAY SUBTOTAL	\$1,724
17	MOBILIZATION	LS	15%	OF ROADWAY SUBTOTAL	\$12,930
18	LANDSCAPING	LS	0%	OF ROADWAY SUBTOTAL	\$0
<b>MISC ITEMS SUBTOTAL COST</b>					<b>\$30,200</b>
<b>TOTAL ROADWAY COST</b>					<b>\$116,400</b>
<b>DESIGN AND CONSTRUCTION</b>					
19	COST ESTIMATE CONTINGENCIES	LS	15%	OF ROADWAY	\$17,460
20	DESIGN ENGINEERING	LS	20%	OF ROADWAY	\$23,280
21	CONSTRUCTION ENGINEERING	LS	15%	OF ROADWAY	\$17,460
<b>DESIGN AND CONSTRUCTION SUBTOTAL COST</b>					<b>\$58,200</b>
<b>TOTAL CONSTRUCTION COST</b>					<b>\$174,600</b>
<b>REAL ESTATE</b>					
22	COMPENSABLE UTILITY RELOCATES	LS	0	\$0.00	\$0
23	REAL ESTATE	LS	1	\$2,500.00	\$2,500
<b>REAL ESTATE SUBTOTAL COST</b>					<b>\$2,500</b>
<b>TOTAL PROJECT COST</b>					<b>\$177,100</b>
<i>NOTE: ESTIMATES ARE FOR CONCEPTUAL USE ONLY, AND ARE NOT BASED ON DETAILED FINAL DESIGNS</i>					

**4. Project Cost**

**ROADWAY WORK  
INTERSECTION OF STH 19/WINDSOR STREET AT N. BIRD STREET  
SUN PRAIRIE, WISCONSIN**

## 5. Additional Project Information

### 5a. Performance Improvement Program Goals


Does this project help with achieving WisDOT's performance goals? Refer to <a href="http://dotnet/mapss/index.htm">http://dotnet/mapss/index.htm</a>	Select all that apply:
<ul style="list-style-type: none"><li>– <b>Mobility:</b> Delivering transportation choices that result in efficient trips and no unexpected delays.</li><li>– <b>Accountability:</b> The continuous effort to use public dollars in the most efficient and cost-effective way.</li><li>– <b>Preservation:</b> Protecting, maintaining and operating Wisconsin's transportation system efficiently by making sound investments that preserve and extend the life of our infrastructure, while protecting our natural environment.</li><li>– <b>Safety:</b> Moving toward minimizing the number of deaths, injuries, and crashes on our roadways.</li><li>– <b>Service:</b> High quality and accurate products and services delivered in a timely fashion by a professional and proactive workforce.</li></ul>	<input checked="" type="checkbox"/> Mobility <input checked="" type="checkbox"/> Accountability <input checked="" type="checkbox"/> Preservation <input checked="" type="checkbox"/> Safety <input checked="" type="checkbox"/> Service

### 5b. Additional Justification

Provide additional detail that should be considered during the evaluation of this project. This may include the consequences of what would happen should the project not be implemented.

This intersection services a wide-range of users including pedestrians, bicyclists, school children, tourists, delivery trucks, and motor vehicles. If the improvements are not implemented, the safety performance and operation performance of the intersection is expected to remain the same or get worse as the infrastructure further deteriorates.

## 6. Contact Information and Signature

PRIMARY CONTACT NAME (Responsible for project delivery) <i>Adam Schleicher</i>	TITLE <i>Director of Public Services, City of Sun Prairie</i>	
EMAIL ADDRESS <a href="mailto:aschleicher@cityofsunprairie.com">aschleicher@cityofsunprairie.com</a>	TELEPHONE 608.825.1170	
REGIONAL LIAISON CONTACT NAME (Municipal only)	EMAIL ADDRESS	
MUNICIPAL SPONSOR SIGNATURE (Responsible for 10% funding – municipalities only) 	DATE <i>4/9/21</i>	
SIGNATURE OF OPERATIONS CHIEF	DATE	

REVISED DRAFT 01/22/2021