

NOTICE AND AGENDA

NOTICE IS HEREBY GIVEN THAT A COMMITTEE OF THE WHOLE MEETING

WILL BE HELD ON

November 19, 2019

6:00 PM Location: Oswego Village Hall

- A. CALL TO ORDER
- **B. ROLL CALL**
- C. CONSIDERATION OF AND POSSIBLE ACTIONS ON ANY REQUESTS FOR ELECTRONIC PARTICIPATION IN MEETING
- **D. PUBLIC FORUM**
- E. OLD BUSINESS

F. NEW BUSINESS

F.1. Wolfs Crossing Update

jh111919.pbot Wolfs Crossing Update.docx Wolfs Crossing Update 111919.pdf

Posted: _____ Date: _____ Time: _____ Place: _____ Initials: _____

G. CLOSED SESSION

- G.1. a. Pending and Probable Litigation [5 ILCS 120/2(c)(11)]
- b. Appointment, Employment, Compensation, Discipline, Performance, or Dismissal of Personnel [5 ILCS 120/2(c)(1)]
- c. Collective Bargaining, Collective Negotiating Matters, Deliberations Concerning Salary Schedules [5 ILCS 120/2(c)(2)]
- d. Sale, Lease, and/or Acquisition of Property [5 ILCS 120/2(c)(5) & (6)]
- e. Security Procedures and the Use of Personnel and Equipment to Respond to an Actual, Threatened, or a Reasonably Potential Danger to the Safety of Employees, Staff, the Public, or Public Property [5 ILCS 120/2(c)(8)]

H. ADJOURNMENT



AGENDA ITEM

MEETING TYPE:	Committee of the Whole
MEETING DATE:	November 19, 2019
SUBJECT:	Wolfs Crossing Update
ACTION REQUEST	<u>red:</u>

Receive the report.

BOARD/COMMISSION REVIEW:

N/A

ACTION PREVIOUSLY TAKEN:

Date of Action	Meeting Type	Action Taken
N/A	N/A	N/A
DEPARTMEN	<u>F:</u> Public Works	

<u>SUBMITTED BY:</u> Public Works Director/Village Engineer Jennifer M. Hughes, P.E., CFM

FISCAL IMPACT: To Be Determined

BACKGROUND:

We have been working with our consultant, Alfred Benesch & Company, since July 2016 to complete Phase I engineering for improvements to Wolfs Crossing. Phase I engineering involves establishing the purpose and need for the project; identifying the preferred alternative including alignment, profile, and right-of-way needs; determining preliminary drainage requirements; and investigating potential environmental, cultural, and historical impacts.

DISCUSSION:

We are nearing completion of Phase 1. The attached presentation discusses what has been completed to date and what are the next steps to complete prior to starting construction.

RECOMMENDATION:

Accept the report.

ATTACHMENTS:

• Wolfs Crossing Update 11/19/19

Wolfs Crossing CORRIDOR

Project Overview November 19, 2019



The Wolfs Crossing Project

Wolfs Crossing Road





Wolfs Crossing Road



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The Wolfs Crossing Project







Purpose and Need for the Project



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Corridor History





Potential Development





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Traffic: Year 2040 Forecast



- Year 2040 Forecasted Traffic



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Traffic: How many lanes?





Crashes







Considering alternatives



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Corridor Advisory Team (WolfCAT)

1/11/2017 3/23/2017 9/28/2017

Who is the WolfCAT?

- ✓ Representatives of School District 308 (3)
- ✓ Representatives from IDOT (2)
- ✓ Officials representing the Oswegoland Park District, Village of Oswego, Oswego Township, Oswego Chamber of Commerce, City of Aurora, Oswego Fire Protection District, Kendall County, and Will County (12)
- Local business owners located on the corridor (8)
- ✓ Residents located on the corridor (18)





Character of the Corridor





WolfCAT Accomplishments



Purpose (What are we trying to accomplish?) ✓ Enhance safety

- ✓ Reduce traffic congestion
- ✓ Improve mobility and operations
- ✓ Accommodate economic development

Need (Why are we studying this corridor?) ✓ Crash history

- ✓ Capacity analysis of existing traffic data
- ✓ Projected future traffic growth
- ✓ Existing mobility and operations (Multimodal)
- ✓ Address drainage inadequacies
- ✓ Minimize environmental impacts

Recommended cross section



4' 11' 11' 18' 11' 11' 4'

Wolfs Crossing Corridor

Traffic Signals vs. Roundabouts: Crash Potential

Crash Potential



- Assigns right-of-way
- Tends to increase rear end crashes
- 5% 45% overall reduction in crashes compared to an all-way stop*



- Reduces conflict points: conflicting vehicles
 only approach from one direction
- Reduces severity of crashes by keeping vehicle speeds low 60% - 70% overall reduction in crashes compared to an allway stop*

Conflict Points

A conflict point is a location where the travel paths of two different vehicles may collide



*Source: FHWA Crash Modification

Factors Clearinghouse

*Crashes of this type are more severe



Conventional Intersections vs. Roundabouts Traffic Operations



Operational comparison: Harvey Rd intersection





How does a roundabout work?



Golden rule of roundabouts:

Drivers in the circle have the right of way. When you enter the roundabout, you must yield to circulating traffic, pedestrians and bicyclists.

Wolfs Crossing Corridor

Nearby roundabouts you may be familiar with

- Aurora: Sullivan Road and Highland Road
- Sugar Grove: Dugan Road and Granart Road
- Plainfield: Renwick Road and Drauden Road



Sugar Grove



Plainfield



Alternatives









The Proposed Plan



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The Recommended Alternative



3 lanes (one lane in each direction plus turning lane)

5 lanes (two lanes in each direction plus turning lane)



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The Roadway Section



Initial roadway section in undeveloped areas



Ultimate roadway section



Graphics being revised to remove bike shoulder



Drainage







When will we build it?



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Project Cost - \$60 million +

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Segment	Location	From Station	To Station	Length		Pavement		Median	Sidewalk	Multi-Use Path	Drainage	Onsite Detention			Utility	Curb	Earthwork			Base Cost (Replace Ex +	3 Lane Total w/	Cost to Expand	Potential		5 Lane Total w/
				(17)	ROW (AC)	Base Cost 3 Lane Cost	Total Cost 5 Lane Cost	Cost	Cost	Cost	Cost	Cost	Signal	Lighting	Relocation	(Outside)	LS Area E (AC) 3	Base Cost Lane Cost	Total Cost 5 Lane Cost	Median) 3 Lane Cost	Engineering	to 5 Lanes	Non-Motorized Costs	S Lane Total	Engineering
Project 1	Harvey	369+81.23	387+06.90	1726	5.2	\$ 974,000	\$ 1,794,000	\$ 190,000	\$ 80,000	\$ 23,000	\$ 352,000	\$ 227,920		\$ 76,000	\$ 323,829	\$ 153,000	2.3 \$	509,870	\$ 761,000.00	\$ 2,676,619	\$ 3,078,111	\$ 1,304,130	\$ 103,000	\$ 3,980,749	\$ 4,577,861
	Harvey to Hudson Pointe	387+06.90	403+50.00	1643	1.5	\$ 525,000	\$ 1,003,000	\$ 144,000	\$ 77,000	\$ 1,000	\$ 300,000					\$ 121,000	2.1 \$	300,160	\$ 448,000.00	\$ 1,270,160	\$ 1,460,684	\$ 823,840	\$ 78,000	\$ 2,094,000	\$ 2,408,100
																		TOTAL=	\$ 3,940,779	\$ 4,338,735	\$ 2,127,370	\$ 181,000	\$ 6,074,749	\$ 6,985,961	
	Champions Run to Roth	338+50.00	346+04.50	755	0.5	\$ 206,000	\$ 396,000	\$ 333,000	\$ 34,000	\$ 21,000	\$ 138,000	\$ 538,253				\$ 53,000	0.8 \$	140,030	\$ 209,000.00	\$ 1,376,283	\$ 1,582,725	\$ 345,970	\$ 55,000	\$ 1,184,000	\$ 1,361,600
Project 2	Roth & OEHS	346+04.50	363+04.60	1700	2.5	\$ 799,000	\$ 1,524,000	\$ 123,000	\$ 72,000	\$ 46,000	\$ 347,000		\$ 500,000	\$ 68,000	\$ 613,043	\$ 131,000	0.8 \$	414,060	\$ 618,000.00	\$ 2,910,103	\$ 3,346,618	\$ 1,131,940	\$ 118,000	\$ 4,042,043	\$ 4,648,349
	OEHS to Harvey	363+04.60	369+81.23	677	1.5	\$ 215,000	\$ 387,000	\$ 64,000	\$ 30,000	\$ 19,000	\$ 124,000					\$ 48,000	0.6 \$	158,120	\$ 236,000.00	\$ 580,120	\$ 667,138	\$ 327,880	\$ 49,000	\$ 908,000	\$ 1,044,200
																			TOTAL =	\$ 4,866,505	\$ 5,596,481	\$ 1,805,790	\$ 222,000	\$ 6,134,043	\$ 7,054,149
Project 3	Develop	258+33.00	278+84.83	2052	43	\$ 986,000	\$ 1,842,000	\$ 1,278,000	\$ 90.000	\$ 60,000	\$ 418,000	\$ 322,853		\$ 76,000	6 413 305	\$ 201,000	20 5	578 210	\$ 863,000,00	\$ 4,132,369	\$ 4,752,224	\$ 1,431,790	\$ 150,000	\$ 5,241,305	\$ 6,027,501
Project 3	Cougiss	200100100													4 410,000	*			TOTAL =	\$ 4,132,369	\$ 4,752,224	\$ 1.431.790	\$ 150,000	\$ 5,241,305	\$ 6.027,501
Business 4	Hudson Pointe to US 30	403+50.00	407+10.23	360	0.6	\$ 99,000	\$ 180,000	\$ 30,000	\$ 14,000	\$ 9,000	\$ 66,000	\$ 118,297				\$ 23,000	2.1 \$	126,630	\$ 189,000.00	\$ 448,927	\$ 516,266	\$ 180,370	\$ 23,000	\$ 511,000	\$ 587,650
Project 4	U\$30	407+10.23	427+50.00	2040	1.5	\$ 994,000	\$ 1,942,000	\$ 117,000	\$ 92,000	\$ 54,000	\$ 416,000		\$ 250,000	\$ 64,000	\$ 474,394	\$ 146,000	0.7 \$	366,490	\$ 547,000.00	\$ 2,735,884	\$ 3,146,267	\$ 1,366,510	\$ 146,000	\$ 4,102,394	\$ 4,717,754
																			TOTAL =	\$ 3,184,812	\$ 3,662,534	\$ 1,546,880	\$ 169,000	\$ 4,613,394	\$ 5,305,404
Project 5	Eola/Hergs	427+50.00	436+29.23	879	0.0	\$ 272,000	\$ 544,000	\$ 70,000	\$ 38,000	s -	\$ 179,000		\$ 250,000	\$ 34,000	\$ 240,631	\$ 63,000	1.6 \$	146,060	\$ 218,000.00	\$ 1,191,691	\$ 1,370,445	\$ 444,940	\$ 38,000	\$ 1,636,631	\$ 1,882,126
					<u> </u>					-									TOTAL =	\$ 1,191,691	\$ 1,370,445	\$ 444,940	\$ 38,000	\$ 1,636,631	\$ 1,882,126
Project 6	Fifth to Champions Run	334+14.76	338+50.00	435	0.5	\$ 125,000	\$ 236,000	\$ 193,000	\$ 20,000	\$ 12,000	\$ 80,000	\$ 204,556				\$ 31,000	0.8 \$	98,490	\$ 147,000.00	\$ 713,046	\$ 820,003	\$ 210,510	\$ 32,000	\$ 719,000	\$ 826,850
riopeero	Fifth	320+63.71	334+14.76	1351	0.1	\$ 594,000	\$ 1,185,000	\$ 1,164,000	\$ 39,000	\$ 39,000	\$ 275,000			\$ 71,000	\$ 234,880	\$ 140,000	0.9 \$	276,040	\$ 412,000.00	\$ 2,653,920	\$ 3,052,008	\$ 905,960	\$ 78,000	\$ 3,559,880	\$ 4,093,862
																		I	TOTAL =	\$ 3,366,966	\$ 3,872,010	\$ 1,116,470	\$ 110,000	\$ 4,278,880	\$ 4,920,712
Project 7	Douglas to Fifth	278+84.83	320+63.71	4179	71	5 1,426,000	\$ 2,640,000	\$ 1566,000	\$ 187,000	\$ 115,000	5 763,000	\$ 85.273			\$ 566,105	\$ 314,000	84 6	942,690	5 1 407 000 00	\$ 5,464,067	5 6 283 677	\$ 2 179 310	\$ 302,000	\$ 7,558,105	\$ 8,691,820
																			TOTAL =	\$ 5,464,067	\$ 6,283,677	\$ 2,179,310	\$ 302,000	\$ 7,558,105	\$ 8,691,820
Project 8	Southbury	230+70.20	246+84.22	1614	2.7	\$ 611,000	\$ 1,139,000	\$ 1,188,000	\$ 72,000	\$ 47,000	\$ 329,000	\$ 114,946		\$ 71,000	\$ 413,172	\$ 138,000	0.6 \$	289,440	\$ 432,000.00	\$ 3,063,558	\$ 3,523,091	\$ 880,560	\$ 119,000	\$ 3,829,172	\$ 4,403,548
Project o	Southbury to Douglas	246+84.22	258+33.00	1149	2.3	\$ 367,000	\$ 664,000	\$ 474,000	\$ 51,000	\$ 33,000	\$ 210,000					\$ 82,000	1.6 \$	506,520	\$ 756,000.00	\$ 1,590,520	\$ 1,829,098	\$ 679,480	\$ 84,000	\$ 2,270,000	\$ 2,610,500
																		I	TOTAL =	\$ 4,654,078	\$ 5,352,189	\$ 1,560,040	\$ 203,000	\$ 6,099,172	\$ 7,014,048
Project 9	1834	200+00.00	213400.00	1300	0.9	\$ 335.000	\$ 642,000	\$ 29,000	68,000	\$ 4,000	\$ 265,000	\$ 5,570		\$ 64,000	\$ 408.548	\$ 96,000	16 5	188 270	\$ 281,000,00	\$ 1,200,383	\$ 1,494,290	\$ 563,730	\$ 72,000	\$ 1 857 543	\$ 2 136 174
Project P	0004	200700.00	210100.00	1200	0.0	* 333,000		4 23,000	4 00,000		4 200,000	4 3,310		* 04,000	y 100,013	4 30,000	*** *	100,270	TOTAL =	\$ 1,299,383	\$ 1,494,290	\$ 563,730	\$ 72,000	\$ 1,857,543	\$ 2,136,174
					1			•																	
Project 10	US 34 to Southbury	213+00.00	230+70.20	1770	2.6	\$ 315,000	\$ 552,000	\$ 637,000	\$ 80,000	\$ 21,000	\$ 323,000	\$ 20,456			\$ 281,165	\$ 26,000	2.3 \$	2,805,290	\$ 4,187,000.00	\$ 4,402,910	\$ 5,063,347	\$ 1,724,710	\$ 101,000	\$ 6,107,165	\$ 7,023,239
																			TOTAL =	\$ 4,402,910	\$ 5,063,347	\$ 1,724,710	\$ 101,000	\$ 6,107,165	\$ 7,023,239
						4	4 44 699 110	4 7 44 44				* * *** ***	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4		4 4 844 644				4	4	4 44 994 695			4
PR	DIECT BASED TOTAL				33.8	\$ 8,843,000	\$ 16,670,000	\$ 7,600,000	\$ 1,044,000	\$ 504,000	\$ 4,585,000	\$ 1,638,122	\$ 1,000,000	\$ 524,000	\$ 3,969,066	\$ 1,766,000	24.4 \$	7,846,370	\$ 11,711,000	\$ 36,509,559	5 41,985,993	\$ 14,501,630	\$ 1,548,000	\$ 49,600,986	\$ 57,041,134



Project Phasing



\$60 million +



Property required





State of Illinois Illinois Department of Transportation

> A LAND OWNER'S GUIDE TO LAND ACQUISITION BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION



EMINENT DOMAIN

Illinois Department of Transportation



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Wolfs Wolfs Crossing





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How Do We Pay For It?



Funding Strategy

- Segment project to spread cost
- Diversify Funding Sources
 - Surface Transportation Program (federal) \$2.5 Million
 - Local Funds
 - Loans
 - Bonds
 - Additional Opportunities
 - Additional STP Funds (Shared Fund Contingency Fund)
 - State Funds
 - Other



Next Steps

- Complete Phase 1 Late Fall 2019
- Select Project 1 Harvey Road Intersection
- Negotiate Contract for Phase 2 Engineer (requires IDOT approval)
- Phase 2 Project 1 Spring 2020-Fall 2021
 - Engineering
 - Land Acquisition
- Phase 3 Construction Spring 2022 Fall 2024
 - Bid and award construction contract (requires IDOT approval)
 - Construction ~ 2 years