

Project Application for 2008-2011 HIGHWAY SAFETY IMPROVEMENT PROGRAM

DESIGN ID:	TIED PROJECT IDs:
RELATED ID(s): (R/W) (CONST)	

Project Description

1. NAME OF ROAD/INTERSECTION <i>W. Kilbourn Av. – Intersections with N. 16th St. and N. 17th St.</i>		HWY NO.
COUNTY <i>Milwaukee</i>	CITY OF <i>Milwaukee</i>	TOWN OF
NAME OF THE MPO THE PROJECT IS REPRESENTED BY <i>SEWRPC</i>		

Is the estimated cost of the project less than \$25,000? Yes No
 If YES, be sure to complete Box 6 in addition to the rest of this form.

2A. SEGMENT Current Average Daily Traffic	Project Length	Miles
Roadway Width	Crash Rate	Shoulder Width

2B. INTERSECTION <i>W. Kilbourn Av. and N. 16th St.</i>	Crash Rate <i>2.61</i>	Entering Vehicle Volume <i>8,380</i>
<i>W. Kilbourn Av. and N. 17th St.</i>	<i>3.21</i>	<i>8,980</i>

Identification of Hazard

2C. Explain identified hazards such as: Visibility Restrictions, Curves, Hills, Intersection Problems, Bike/Ped Conflicts, Narrow Shoulders, Rutting, Etc.

The existing geometric configuration and building locations at both intersections provides very poor visibility of northbound/southbound traffic on both North 16th Street (one way northbound) and North 17th Street (one way southbound) for eastbound/westbound traffic on West Kilbourn Avenue. This has led to a high number of right angle crashes at the intersections. Additional signing, pavement marking, and other improvements have failed to reduce the number of crashes at the intersections.

Proposed Improvement

3. In some detail, describe the proposed project and how it will address the identified hazard.

To create a safer exchange of right-of-way and provide gaps in traffic on North 16th Street and North 17th Street for traffic on West Kilbourn Street, traffic signals which will be installed at both intersections under Warrant 8 (Roadway Network) to reduce crashes.

Project Cost

4. Estimate project costs in today's dollars)	FY 2009	FY 2010	FY 2011	FY 2012	HSIP Funds Requested
Preliminary Engineering-Design*: Include state review (-00)			\$25,000		\$25,000
Construction Inspection (-71)				\$20,000	\$20,000
Traffic Signals (-90)				\$180,000	\$180,000
** TOTAL			\$25,000	\$200,000	\$225,000

* Ineligible cost for Small Local HSIP Project (less than \$25,000).
 ** The project sponsors will be responsible for any project costs in excess of the approved project cost.

Project Checklist

Complete this box only for projects less than \$25,000:

5. Will project affect or use land from a property on the National Register of Historic Places? Yes No

Will project require the use of any publicly-owned land from a public park, recreation area, or wildlife and waterfowl refuge? Yes No

Is your municipality adequately staffed and equipped to do the work?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Does your municipality have prior commitments that would impair your performance of this work?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Contact Information and Signature

6. PRIMARY CONTACT PERSON or AGENCY		
NAME <i>Jeffrey S. Polenske, P.E.</i>	TITLE <i>City Engineer</i>	
ADDRESS <i>841 North Broadway, Room 701</i>	TELEPHONE <i>(414) 286-2400</i>	
MUNICIPALITY <i>City of Milwaukee</i>	STATE <i>WI</i>	ZIP <i>53202</i>
7. SIGNATURE OF LOCAL APPROVING AUTHORITY		DATE

WisDOT Information – Shaded areas to be completed by WisDOT staff only.

A. Environmental Documentation Type		B. Hazard Elimination Type	
C. PMSID	D. Functional Class		E. PEF

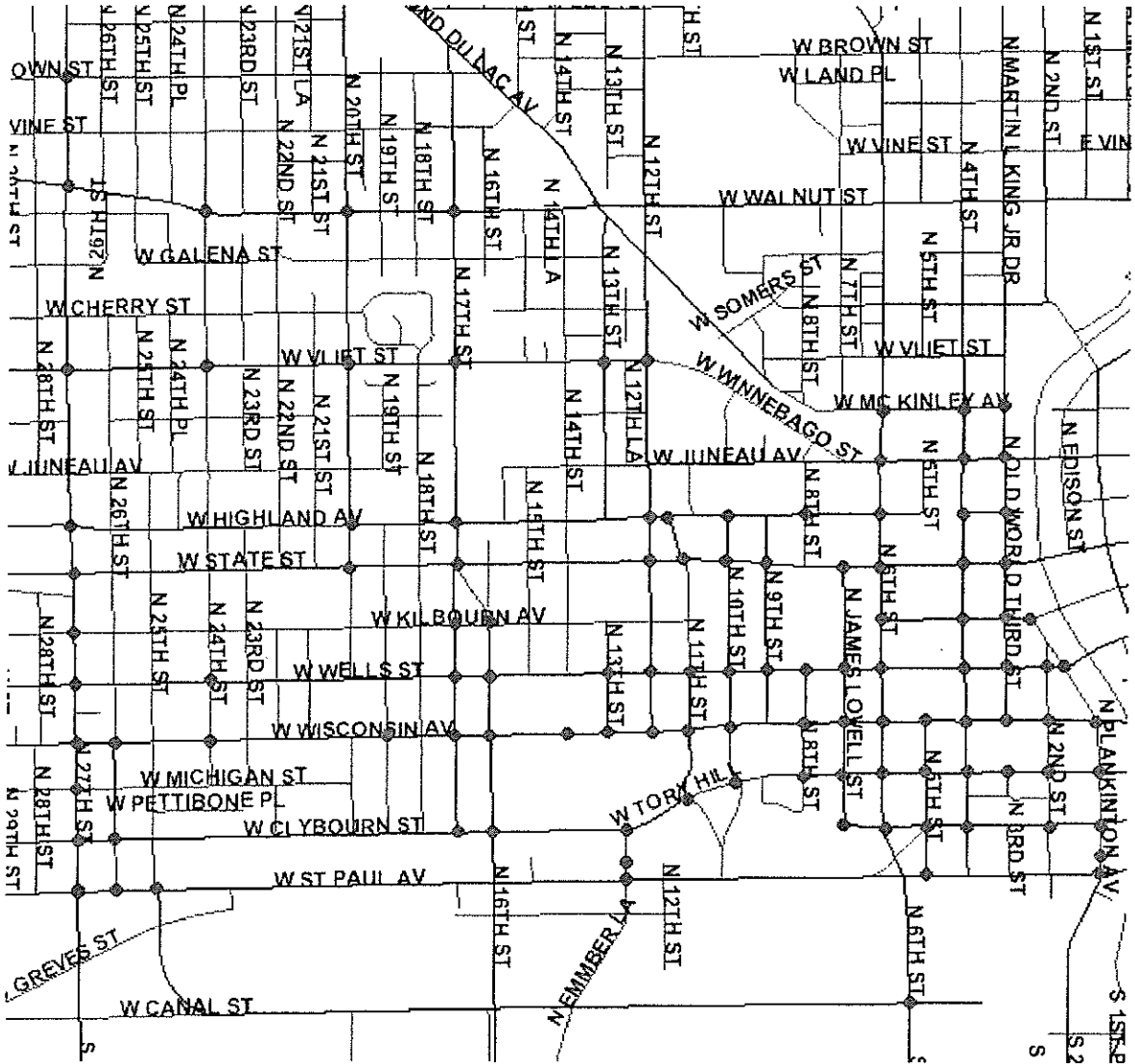
REGION APPROVAL Project Supervisor	Date
Planning Supervisor	Date

C.O. Concurrence	Approved _____ Disapproved _____
Approving Authority	Date

REVISED 12/12/06

**ATTACHMENT A
EXISTING SIGNAL SYSTEM MAP**

CITY OF MILWAUKEE DEPT. OF PUBLIC WORKS
WEST KILBOURN AVENUE
INTERSECTIONS WITH NORTH 16TH STREET AND NORTH 17TH STREET
2011-2012 HSIP APPLICATION



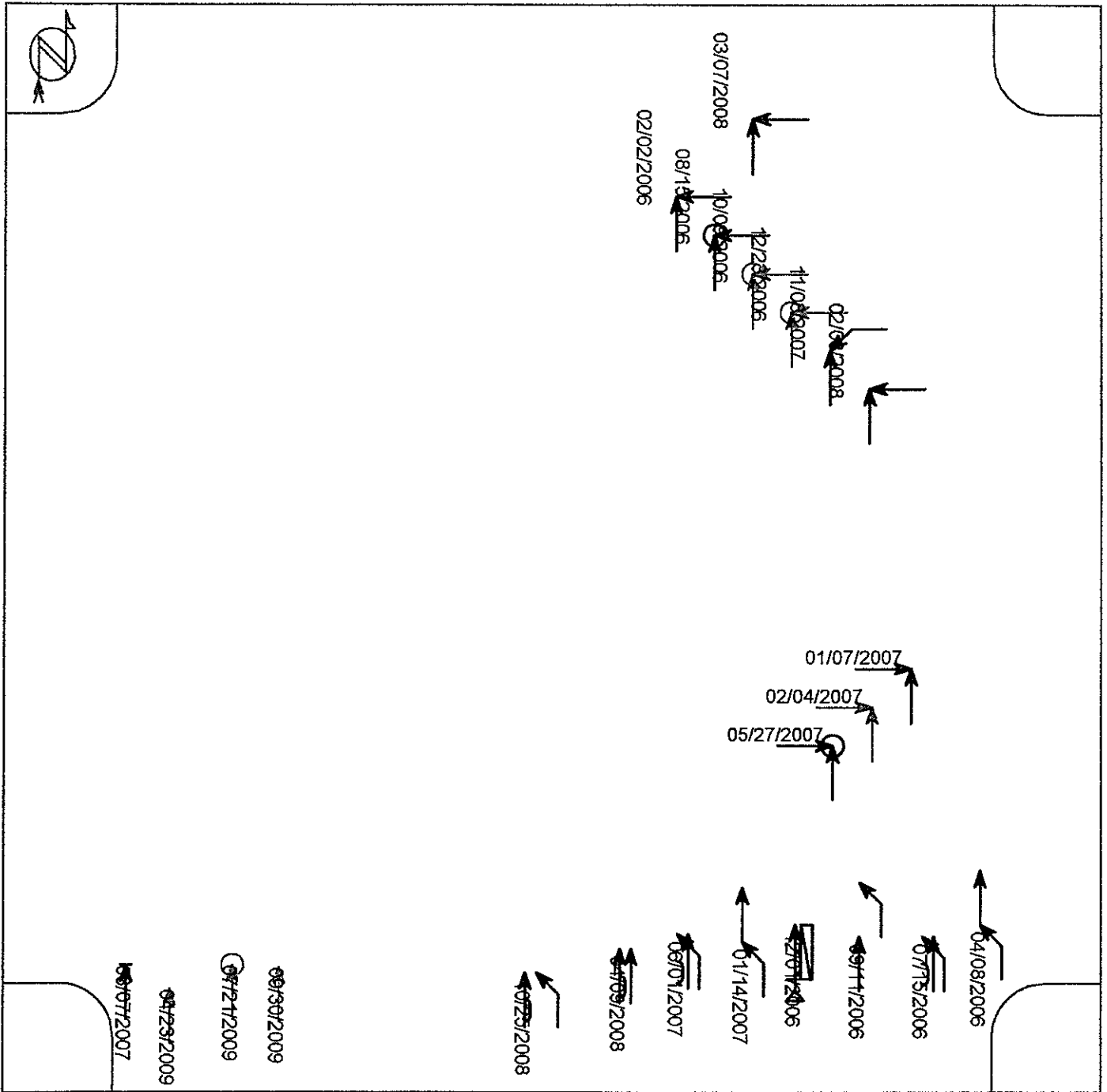
- Proposed New Traffic Signal
- Existing Traffic Signal

**ATTACHMENT B
CITY OF MILWAUKEE CRASH DIAGRAM**

CITY OF MILWAUKEE DEPT. OF PUBLIC WORKS
WEST KILBOURN AVENUE
INTERSECTIONS WITH NORTH 16TH STREET AND NORTH 17TH STREET
2011-2012 HSIP APPLICATION

W. Kilbourn Av., & N. 16th St. 01611 & K5742

22 Accidents 01/01/06 - 10/31/09



Accidents with missing data (4)

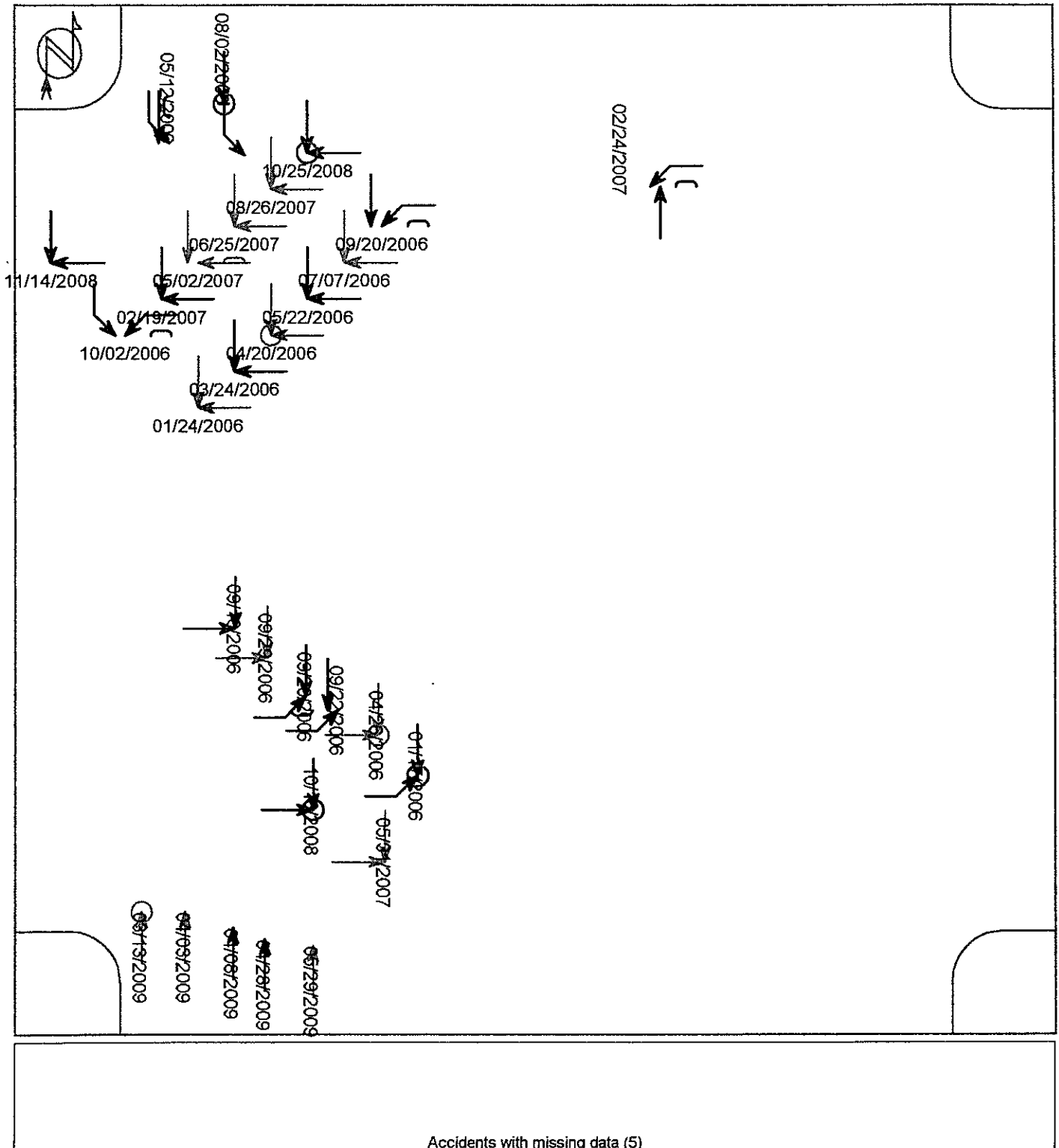
Yellow arrows: fail to yield, Red arrows: Disregards
 Single Circle: Injuries, Double circle: Fatality

(clear filter)

W. Kilbourn Av., & N. 17th st. 01711 & K5742

29 Accidents

01/01/06 - 10/31/09



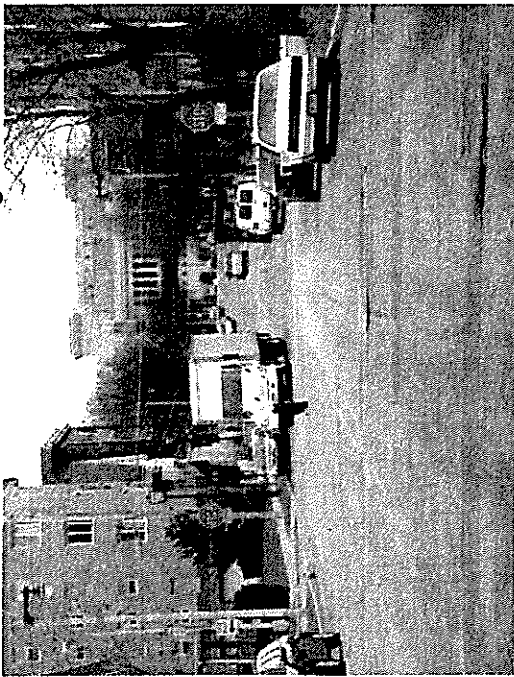
Yellow arrows: fail to yield, Red arrows: Disregards
 Single Circle: Injuries, Double circle: Fatality

(clear filter)

**ATTACHMENT C
INTERSECTION PHOTOGRAPHS**

CITY OF MILWAUKEE DEPT. OF PUBLIC WORKS
WEST KILBOURN AVENUE
INTERSECTIONS WITH NORTH 16TH STREET AND NORTH 17TH STREET
2011-2012 HSIP APPLICATION

Kilbourn and 16th – Facing East



Kilbourn and 16th – Facing West



Kilbourn and 16th – Facing North



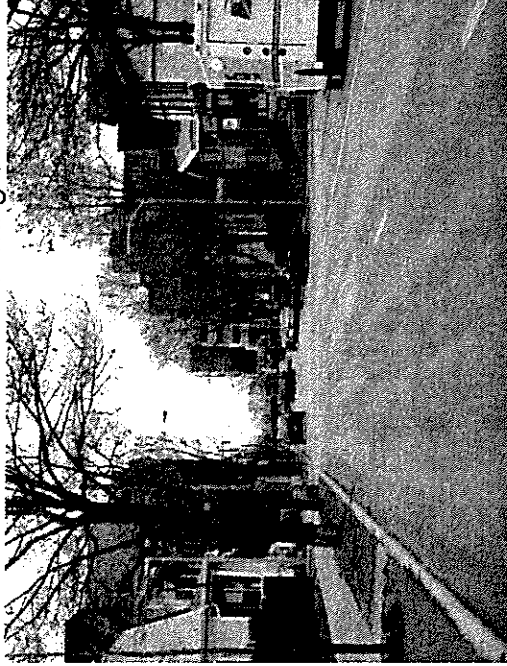
Kilbourn and 17th – Facing East



Kilbourn and 17th – Facing West



Kilbourn and 17th – Facing South



**ATTACHMENT D
WARRANT STUDIES**

CITY OF MILWAUKEE DEPT. OF PUBLIC WORKS
WEST KILBOURN AVENUE
INTERSECTIONS WITH NORTH 16TH STREET AND NORTH 17TH STREET
2011-2012 HSIP APPLICATION

WARRANT ANALYSIS

MAJOR ST: N. 16TH ST.
 MINOR ST: W. KILBOURN AV.

NO. OF LANES: 2
 NO. OF LANES: 1

NO.	TITLE					MET?
1	EIGHT-HOUR VEHICULAR VOLUME					NO
	CONDITION A:	MAJOR:	<u>600</u>	MINOR:	<u>150</u>	
	or CONDITION B:	MAJOR:	<u>900</u>	MINOR:	<u>75</u>	
	or COMBINATION:	MAJOR:	<u>480</u>	MINOR:	<u>120</u>	
		and MAJOR:	<u>720</u>	MINOR:	<u>60</u>	
2	FOUR HOUR VEHICULAR VOLUME					NO
	FIGURE 4C-1					
3	PEAK HOUR					NO
	FIGURE 4C-3					
7	CRASH EXPERIENCE	80 % of CONDITION A:	<u>NO</u>			NO
		or 80 % of CONDITION B:	<u>NO</u>			
	NO. OF CORRECTABLE REPORTABLE CRASHES		<u>6</u>			

TIME	MAJOR ST		TOTAL	MINOR ST		Warrant 1				Warr 2	Warr 3
	NB	N. 16TH ST.		EB	WB	A	B	80% A	80% B		
MID	118		118	16	20						
1	95		95	16	20						
2	71		71	11	12						
3	31		31	4	8						
4	41		41	7	9						
5	81		81	12	21						
6	195		195	28	32						
7	414		414	54	61						
8	496		496	52	51						
9	301		301	44	47						
10	260		260	41	52						
11	303		303	36	64						
NOON	363		363	48	85						
1	348		348	49	93						
2	383		383	60	81						
3	374		374	57	119						
4	442		442	53	128			X			
5	403		403	56	106						
6	314		314	50	64						
7	246		246	34	72						
8	253		253	35	64						
9	239		239	28	73						
10	224		224	26	49						
11	166		166	27	43						
TOTAL	6161	0	6161	844	1374						
COUNT #	55705			56929	56928						
DATE	6/27/06			3/24/08	3/24/08						

BY: JCB
 DATE: 3/31/2008

WARRANT ANALYSIS

MAJOR ST: N. 17TH ST. NO. OF LANES: 2
 MINOR ST: W. KILBOURN AV. NO. OF LANES: 1

NO.	TITLE	MET?
1	EIGHT-HOUR VEHICULAR VOLUME	NO
	CONDITION A: MAJOR: <u>600</u> MINOR: <u>150</u>	
	or CONDITION B: MAJOR: <u>900</u> MINOR: <u>75</u>	
	or COMBINATION: MAJOR: <u>480</u> MINOR: <u>120</u>	
	and MAJOR: <u>720</u> MINOR: <u>60</u>	
2	FOUR HOUR VEHICULAR VOLUME	NO
	FIGURE 4C-1	
3	PEAK HOUR	NO
	FIGURE 4C-3	
7	CRASH EXPERIENCE 80 % of CONDITION A: <u>NO</u>	NO
	or 80 % of CONDITION B: <u>NO</u>	
	NO. OF CORRECTABLE REPORTABLE CRASHES <u>13</u>	

TIME	MAJOR ST		MINOR ST		Warrant 1				Warr 2	Warr 3
	N. 17TH ST.		W. KILBOURN AV.		A	B	80% A	80% B		
	SB	TOTAL	EB	WB						
MID	72	72	15	24						
1	48	48	11	28						
2	36	36	11	19						
3	22	22	4	5						
4	38	38	4	5						
5	73	73	11	12						
6	178	178	36	25						
7	523	523	88	69						
8	436	436	96	60						
9	330	330	75	52						
10	312	312	63	54						
11	370	370	80	81						
NOON	377	377	102	73						
1	364	364	92	71						
2	433	433	86	68						
3	495	495	127	107			X			
4	508	508	105	99			X			
5	446	446	90	98						
6	306	306	78	93						
7	243	243	61	67						
8	208	208	52	75						
9	188	188	44	48						
10	141	141	44	54						
11	92	92	33	49						
TOTAL	0	6239	6239	1408	1336					
COUNT #		58350			58347					
DATE		3/23/10		3/23/10	3/23/10					

BY: JCB
DATE: 4/1/2010