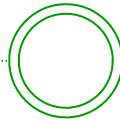


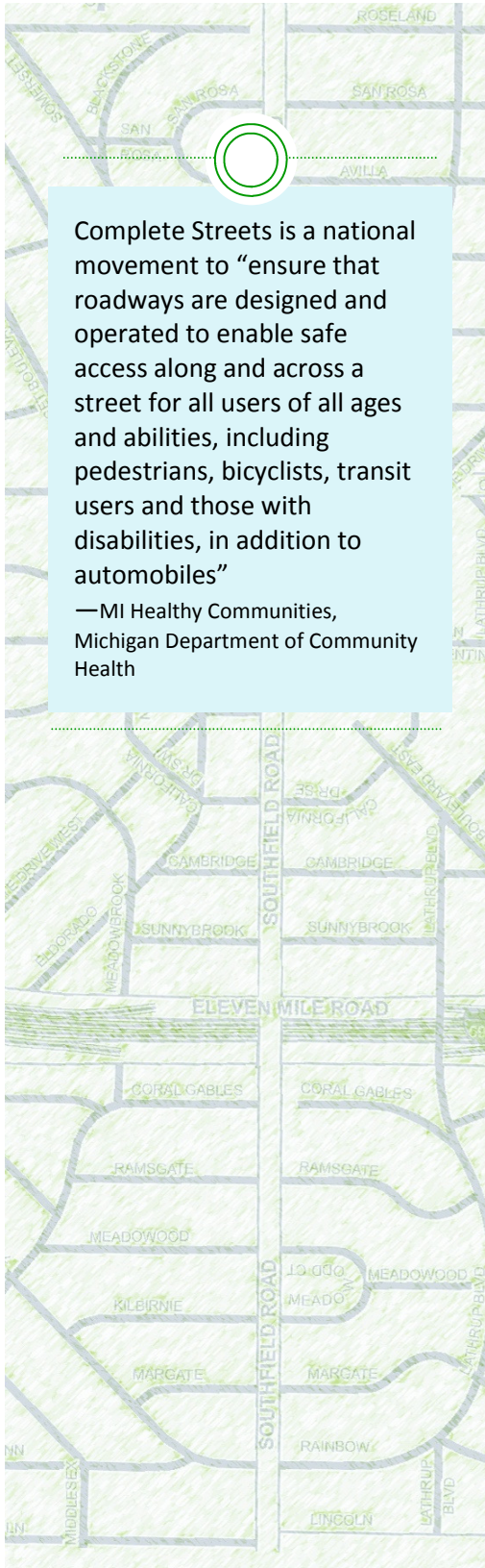
April 10, 2012

Lathrup Village

Non-Motorized  
Transportation Improvement Program

2012—2017





Complete Streets is a national movement to “ensure that roadways are designed and operated to enable safe access along and across a street for all users of all ages and abilities, including pedestrians, bicyclists, transit users and those with disabilities, in addition to automobiles”

—MI Healthy Communities,  
Michigan Department of Community Health

## OVERVIEW

A Non-Motorized Transportation Improvement Program (TIP) is similar to a Capital Improvements Plan (CIP) in that both documents project a priority for capital spending over a six-year period. By State planning law, the Planning Commission is responsible for preparing a CIP, with approval given by the City Council. Likewise, the TIP is developed by the Planning Commission. The TIP lays out projects from the 2011 Non-Motorized Transportation Plan (NMTP) that require capital funding.

This NMTIP groups projects by elements that further goals of complete streets: Correcting sidewalk gaps (which includes gaps at crossings), developing and installing bike route wayfinding signage, installing new traffic signals/improving crossings, and reconstructing Southfield road. Within each category, projects are listed by the quadrant of the city in which they are located (this is also how the analysis is described in the NMTP).

To further assist in setting priorities, roads are color-coded: those noted in light green are major collectors, those in green are minor collectors, black are local streets, and red are principal arterials.

This TIP has been reviewed by both the Road Commission for Oakland County (RCOC) and the Michigan Department of Transportation. (MDOT). RCOC has indicated that pedestrian crossing of Twelve Mile should take place at Southfield or Pierce rather than an new signalized location at Lathrup Blvd. Additional discussion of this crossing will likely take place in the future. Also, RCOC indicated that the four signals suggested along Southfield Road will require additional analysis through the Environmental Assessment process.

MDOT noted that it is unlikely that the mid-block pedestrian crossing of I-696 service drives will meet signal warrants. While it is recognized that little crossing activity currently takes place at Rainbow and Lathrup Boulevard, it is the lack of a protected crossing location that influences demand. The issue of safely crossing pedestrians across I-696 will require additional review in the future.

## NON-MOTORIZED TRANSPORTATION IMPROVEMENT PROGRAM

Project	Rough Cost	Year One	Years 2-3	Years 4-6	Years 7+
<b>COMPLETE SIDEWALK GAPS (Refer to Map 1 on page 8)</b>					
NW Quadrant					
Santa Barbara between 11 Mile and Roseland	\$12,100				
Sunset Boulevard West	\$25,050				
Eldorado between Sunset and Goldengate West	\$14,075				
Roseland between Santa Barbara and Blackstone	\$14,350				
Bloomfield between 11 Mile and Roseland	\$2,700				
Eldorado between California NW and Bloomfield	\$4,375				
San Rosa plus Blackstone at Wiltshire (west intersection)	\$5,525				
Stanford around California	\$11,500				
Triangle bounded by Eldorado, California SW & Goldengate West	\$16,650				
Meadowbrook between 11 Mile and Bungalow, plus Eldorado at Cambridge	\$5,200				
SW Quadrant					
Rainbow between Southfield and 11 Mile	\$15,150				
Lincoln between Southfield and Arrowhead	\$3,225				
Eldorado between 11 Mile and Hampshire	\$28,850				
Meadowbrook between Coral Gables and Arrowhead, plus Sunbright at Hampshire	\$14,925				
Middlesex between Santa Barbara and Santa Ann	\$34,100				
Bloomfield between Meadowbrook and Eldorado	\$15,600				
Coral Gables between Meadowbrook and Eldorado	\$14,275				

Light Green = Major Collector  
Green = Minor Collector

Black = Local Street  
Red = Principal Arterial



Project	Rough Cost	Year One	Years 2-3	Years 4-6	Years 7+
<b>COMPLETE SIDEWALK GAPS (continued)</b>					
SE Quadrant					
Lathrup Boulevard between Rainbow and 11 Mile	\$14,200				
Lincoln at Southfield	\$2,200				
Ramsgate between Southfield and Lathrup Boulevard	\$22,025				
NE Quadrant					
Lathrup Boulevard between 11 Mile and Roseland	\$33,525				
Goldengate Drive East between Glenwood and Monterey	\$8,375				
Monterey between Goldengate Drive East and California SE	\$13,600				
California SE between Monterey and Goldengate Drive East	\$5,625				
San Quentin	\$3,850				
<b>BIKE ROUTES (Refer to Map 2 on page 9)</b>					
NW Quadrant					
Install bike route wayfinding signage	\$10,625				
SW Quadrant					
Install bike route wayfinding signage	\$4,250				
SE Quadrant					
Install bike route wayfinding signage	\$2,250				
NE Quadrant					
Install bike route wayfinding signage	\$5,625				



Light Green = Major Collector  
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Black = Local Street  
Red = Principal Arterial

Project	Rough Cost	Year One	Years 2-3	Years 4-6	Years 7+
<b>TRAFFIC SIGNALS &amp; IMPROVED CROSSINGS</b> (See Map 2 on Page 9) Note: Signal improvements associated with major road reconstruction projects are likely to be addressed in the overall road construction cost.					
<b>Southfield Road</b> <sup>1</sup>					
Redwood	\$125,000				
California Drive NE	\$125,000				
California Drive SE	\$125,000				
Village Center (Park Street Promenade)	\$95,000				
<b>11 Mile Road</b>					
Rainbow (2 intersections)	\$140,000				
Lathrup Boulevard (3 intersections) <sup>2</sup>	\$165,000				
<b>12 Mile Road</b>					
Lathrup Boulevard	\$70,000				
<b>PATHS</b>					
Path north from Santa Barbara to 12 Mile (275')	\$8,250				
Path from Rainbow to Southfield Nature Center (515')	\$15,540				
<b>ROAD CONSTRUCTION &amp; RECONSTRUCTION</b>					
Road extension between Sunset Boulevard East and Goldengate Drive East	Non-Motorized Improvements associated with major road reconstruction projects are not part of TIP; they should be addressed in the CIP.				
<b>Southfield Road</b> (11 to 12 Mile)					
Eldorado, Sunset to California NW					
Road reconstruction as identified in access management plan, including right-of-way parking, bike lanes, landscaping, sidewalks, and service drive aisles.					

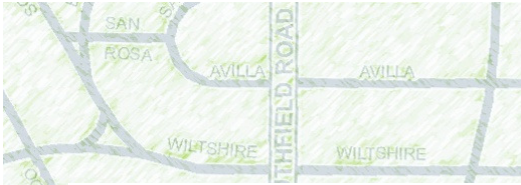
<sup>1</sup> No cost assumed to remove signal at Sunset / Goldengate East.

<sup>2</sup> Assumes that WB 11 Mile is signalized at I-696 exit ramp as well as at Lathrup Blvd.



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## NON-MOTORIZED TRANSPORTATION IMPROVEMENT PROGRAM: ESTIMATED COSTS

### INSTALL BIKE ROUTE WAYFINDING SIGNAGE

	No. of Sign Assemblies by Panel Size & Quantity			Cost <sup>1</sup>
	1 Large + 1 Small	2 Large		
<b>NW Quadrant</b>				
Roseland, Southfield to Santa Barbara	6	0	\$	1,200
Santa Barbara, 12 Mile to 11 Mile	8	9	\$	3,625
Wiltshire, Santa Barbara to Woodworth	1	2	\$	650
Saratoga-Sunset West-California NW	10	1	\$	2,225
Woodworth-Rackham-Rainbow-Sunnybrook	9	4	\$	2,700
<b>Subtotals for 5 Routes</b>	<b>34</b>	<b>16</b>	<b>\$</b>	<b>10,400</b>
<b>SW Quadrant</b>				
Rainbow, 11 Mile to Back St-Lincoln-Southfield	12	1	\$	2,625
Coral Gables-Meadowbrook-Arrowhead	7	1	\$	1,625
<b>Subtotals for 2 Routes</b>	<b>19</b>	<b>2</b>	<b>\$</b>	<b>4,250</b>
<b>SE Quadrant</b>				
Lincoln, Southfield to Lathrup Boulevard	3	0	\$	600
Lathrup Boulevard, Lincoln to 11 Mile	6	2	\$	1,650
<b>Subtotals for 2 Routes</b>	<b>9</b>	<b>2</b>	<b>\$</b>	<b>2,250</b>
<b>NE Quadrant</b>				
Lathrup Boulevard, 11 Mile to 12 Mile	9	5	\$	2,925
Sunset East, Lathrup Boulevard to California SE	1	2	\$	650
California NE-Goldengate East-Lathrup-Catalpa	8	2	\$	2,050
<b>Subtotals for 3 Routes</b>	<b>18</b>	<b>9</b>	<b>\$</b>	<b>5,625</b>
<b>GRAND TOTALS</b>	<b>80</b>	<b>29</b>	<b>\$</b>	<b>22,525</b>

<sup>1</sup> Assumed unit costs: \$200 for Bus Route sign + small supplemental sign, and \$225 for Bus Route sign + larger supplemental sign.



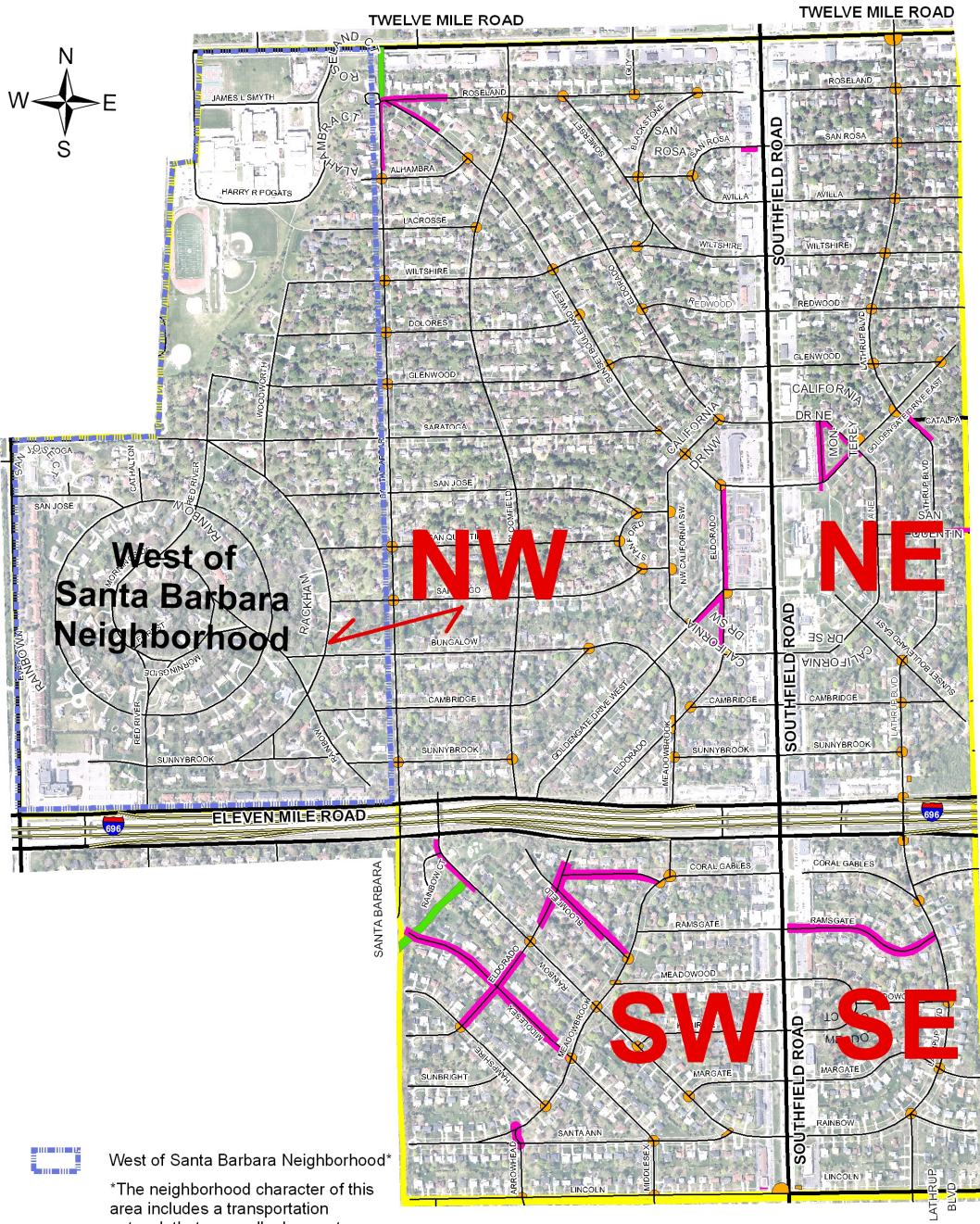
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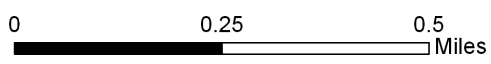
# Lathrup Village Sidewalk Gaps

## Oakland County, Michigan

Map 1—Sidewalk Gaps and Intersection Gaps



-  West of Santa Barbara Neighborhood\*
- \*The neighborhood character of this area includes a transportation network that generally does not include sidewalks. Many roadways in this area are unpaved.
-  Intersection Sidewalk Gaps
-  Sidewalk Gaps
-  Shared-use Path
-  Municipal Boundary



July 22, 2011

Base Map Source: Oakland County Planning



# Lathrup Village Complete Streets Plan

## Oakland County, Michigan

