

CITY of NOVI CITY COUNCIL

Agenda Item 1
December 21, 2009

SUBJECT: Approval of Balancing Change Order No. 2 to Audia Concrete Construction, Inc. for the 2009 Pathway Construction project in the amount of \$31,841.98.

SUBMITTING DEPARTMENT: Department of Public Services, Engineering Division *BTC*

CITY MANAGER APPROVAL: *[Signature]*

EXPENDITURE REQUIRED	\$ 3,036.51 (Eleven Mile Road) \$ 14.06 (Ten Mile Road) \$23,368.48 (Haggerty Road) <u>\$ 5,422.93 (Short Segments—Clark St)</u> \$ 31,841.98 TOTAL
AMOUNT BUDGETED	\$53,000 (Eleven Mile Road) \$25,600 (Ten Mile Road) \$52,000 (Haggerty Road) <u>\$0 (Short Segments—Clark St)</u> \$130,600 TOTAL
APPROPRIATION REQUIRED	\$ 2,118 (Eleven Mile Road) \$63,000 (Haggerty Road) <u>\$40,122 (Short Segments—Clark St and 2008 Rollover)</u> \$105,240 TOTAL (from Municipal Street Fund Balance)
LINE ITEM NUMBER	204-204.00-974.410 (Eleven Mile Road) 204-204.00-974.411 (Ten Mile Road) 204-204.00-974.412 (Haggerty Road) 204-204.00-974.409 (Short Segments—Clark St)

BACKGROUND INFORMATION:

The 2009 Pathway Construction project was awarded in June 2009 to Audia Concrete Construction, Inc. to construct six gaps in the Novi pathway system totaling approximately 3,100 linear feet (see attached map showing locations). A change order was approved by City Council in September 2009 to expand the scope to include two alternates that were not awarded at the time of the original award following the acquisition of an easement at the corner of Haggerty Road and Ten Mile Road. The project is now substantially complete and a balancing change order has been prepared to account for additional work and quantities that were incurred during construction.

The majority of the additional construction costs were incurred on the segment of the pathway near Haggerty Road and Burton Drive. The construction of the pathway created unanticipated drainage concerns that needed to be addressed to properly construct the pathway, such as securing a grading easement (in exchange for replacement of a fence), regrading the area, and constructing storm sewer to promote positive drainage, all of which added approximately \$11,000 to the construction contract. Approximately \$8,800 is being added as a result of balancing the unit quantities estimated for the project. Also, the contractor incurred additional costs to remobilize equipment and materials to construct alternates 1 and 2 (since the original project was completed before change order 1 was approved) at a cost of \$6,200. The remaining \$6,000 was incurred for

additional permit fees from Road Commission for Oakland County (RCOC) for the signal work at Haggerty and Ten Mile, as a result of conflicts with Buckeye Pipeline, and construction of a retaining wall on Clark Street to avoid stream impacts and additional permitting.

The original budget for the project (FY2008-09) was \$275,600. The actual cost to date of the project, including this change order and engineering fees, is \$240,609, which is 13% under the original budget.

The project is substantially complete, with only minor restoration items to be addressed in the spring before final payment will be recommended to the contractor.

RECOMMENDED ACTION: Approval of Balancing Change Order No. 2 to Audia Concrete Construction, Inc. for the 2009 Pathway Construction project in the amount of \$31,841.98

	1	2	Y	N
Mayor Landry				
Mayor Pro Tem Gatt				
Council Member Crawford				
Council Member Fischer				

	1	2	Y	N
Council Member Margolis				
Council Member Mutch				
Council Member Staudt				

CITY OF NOVI
2009 PATHWAY CONSTRUCTION
PROJECT No. NV09-005
CONTRACT CHANGE ORDER No. 2 - BALANCING

Owner: City of Novi
 45175 West Ten Mile Road
 Novi, MI 48375
 Phone: (248) 347-0454
 Fax: (248) 735-5683

Contractor: Audia Concrete Construction, Inc.
 2985 Childs Lake
 Milford, MI 48381
 Phone: (248) 676-9570
 Fax: (248) 676-9520

 Upon execution by the Owner's representative, the following changes in the Contract Documents will be authorized.

Item No.	Description of Changes	Quantity	Unit	Unit Price	Decrease in Contract Price	Increase in Contract Price
Balance Projects 1 thru 4 and Alternates 1 and 2						
6-2	Pavement, Rem	34.7	Syd	\$ 9.00		\$ 312.30
7-2	Curb and Gutter, Rem	-6	Lft	\$ 10.00	\$ (60.00)	
8-2	Sidewalk, Rem	3.5	Syd	\$ 9.00		\$ 31.50
9-2	Pathway Grading	54.5	Lft	\$ 4.00		\$ 218.00
10-2	Aggregate Base, 6 inch	-83	Syd	\$ 2.25	\$ (186.75)	
11-2	4-inch Concrete Sidewalk	-219.5	Sft	\$ 2.40	\$ (526.80)	
12-2	6-inch Concrete Driveway	451.6	Sft	\$ 2.60		\$ 1,174.16
13-2	ADA Compliant Sidewalk Ramp	-123.5	Sft	\$ 3.00	\$ (370.50)	
16-2	Regrade Ditch	46	Lft	\$ 10.00		\$ 460.00
18-2	Dr Structure Cover, Adj, Case 2	1	Ea	\$ 400.00		\$ 400.00
19-2	Seeding and Mulching	556	Syd	\$ 2.85		\$ 1,584.60
26-2	Aggregate Base, 6 inch	-17.75	Syd	\$ 2.25	\$ (39.94)	
27-2	4-inch Concrete Sidewalk	7.5	Sft	\$ 2.40		\$ 18.00
28-2	ADA Compliant Sidewalk Ramp	12	Sft	\$ 3.00		\$ 36.00
37-2	Tree, Rem, 8 inch to 18 inch	1	Ea	\$ 600.00		\$ 600.00
38-2	Curb and Gutter, Rem	32.5	Lft	\$ 10.00		\$ 325.00
39-2	Sidewalk, Rem	2.6	Syd	\$ 9.00		\$ 23.40
40-2	Pathway Grading	12	Lft	\$ 2.80		\$ 33.60
41-2	Aggregate Base, 6 inch	45.7	Syd	\$ 2.25		\$ 102.83
42-2	4-inch Concrete Sidewalk	306.5	Sft	\$ 2.40		\$ 735.60
43-2	ADA Compliant Sidewalk Ramp	220.5	Sft	\$ 3.00		\$ 661.50
44-2	ADA Detectable Warning Plate	20	Sft	\$ 20.00		\$ 400.00
45-2	ADA Detectable Warning Plate, Retrofit	-20	Sft	\$ 25.00	\$ (500.00)	
46-2	Regrade Ditch	-57	Lft	\$ 10.00	\$ (570.00)	
47-2	Dr Structure Cover, Adj, Case 1	3	Ea	\$ 400.00		\$ 1,200.00
48-2	Culv, Cl A, Conc, 15 inch	30	Lft	\$ 40.00		\$ 1,200.00
49-2	Culv, End Sect, Conc, 15 inch	2	Ea	\$ 400.00		\$ 800.00
50-2	Wooden Pedestrian Railing	-24	Lft	\$ 15.00	\$ (360.00)	
51-2	Cold Plastic Overlay, 6 inch	30	Lft	\$ 4.58		\$ 137.40
52-2	Seeding and Mulching	516	Syd	\$ 2.85		\$ 1,470.60
56-2	TS, Pedestrian, Two Way Bracket Arm Mtd (LED) Cou	1	Ea	\$ 1,500.00		\$ 1,500.00
58-2	TS, Pedestrian, Two Way Pedestal Mtd (LED) Countd	-1	Ea	\$ 2,200.00	\$ (2,200.00)	
60-2	Conduit, DB, 1, 1 1/4 inch	8	Lft	\$ 42.00		\$ 336.00
61-2	Conduit, DB, 1, 3 inch	-8	Lft	\$ 64.00	\$ (512.00)	
62-2	Conduit, Directional Bore, 1, 4 inch	1	Lft	\$ 60.00		\$ 60.00

Prepared by Spalding DeDecker Associates, Inc.
 12/7/2009

**CITY OF NOVI
2009 PATHWAY CONSTRUCTION
PROJECT No. NV09-005
CONTRACT CHANGE ORDER No. 2 - BALANCING**

Item No.	Description of Changes	Quantity	Unit	Unit Price	Decrease in Contract Price	Increase in Contract Price
Balance Projects 1 thru 4 and Alternates 1 and 2 (cont.)						
74-2	Clearing and Grubbing	25	Lft	\$ 9.00		\$ 225.00
75-2	Tree, Rem, 8 inch to 18 inch	1	Ea	\$ 600.00		\$ 600.00
76-2	Pavement, Rem	9.45	Syd	\$ 9.00		\$ 85.05
78-2	Sidewalk, Rem	23	Syd	\$ 9.00		\$ 207.00
79-2	Pathway Grading	144	Lft	\$ 4.50		\$ 648.00
80-2	Aggregate Base, 6 inch	32	Syd	\$ 2.25		\$ 72.00
81-2	Curb and Gutter, Conc, Det C4	44	Lft	\$ 18.00		\$ 792.00
82-2	Curb, Conc, Det E2	37.5	Lft	\$ 20.00		\$ 750.00
85-2	4-inch Concrete Sidewalk	-108	Sft	\$ 2.40	\$ (259.20)	
86-2	ADA Compliant Sidewalk Ramp	27	Sft	\$ 3.00		\$ 81.00
88-2	Regrade Ditch	-158	Lft	\$ 10.00	\$ (1,580.00)	
89-2	Dr Structure Cover, Adj, Case 2	1	Ea	\$ 400.00		\$ 400.00
91-2	Seeding and Mulching	77	Syd	\$ 2.85		\$ 219.45
99-2	Pavement, Remove	40.8	Syd	\$ 9.00		\$ 367.20
100-2	Curb and Gutter, Rem	-25	Lft	\$ 10.00	\$ (250.00)	
101-2	Curb and Gutter, Conc, Det C4	-25	Lft	\$ 18.00	\$ (450.00)	
103-2	Pathway Grading	65	Lft	\$ 3.90		\$ 253.50
104-2	Aggregate Base, 6 inch	16.8	Syd	\$ 2.25		\$ 37.80
105-2	4-inch Concrete Sidewalk	-50	Sft	\$ 2.40	\$ (120.00)	
106-2	6-inch Concrete Driveway	48.5	Sft	\$ 2.60		\$ 126.10
107-2	ADA Compliant Sidewalk Ramp	26.5	Sft	\$ 3.00		\$ 79.50
109-2	Drainage Modifications	-1	LS	\$ 2,800.00	\$ (2,800.00)	
111-2	Seeding and Mulching	35	Syd	\$ 2.85		\$ 99.75
117-2	Sidewalk, Rem	20.8	Syd	\$ 9.00		\$ 187.20
118-2	Pathway Grading	79.5	Lft	\$ 8.44		\$ 670.98
119-2	Aggregate Base, 6 inch	-10	Syd	\$ 2.25	\$ (22.50)	
120-2	4-inch Concrete Sidewalk	-5	Sft	\$ 2.40	\$ (12.00)	
121-2	ADA Compliant Sidewalk Ramp	69	Sft	\$ 3.00		\$ 207.00
123-2	Dr Structure Cover, Adj, Case 1	1	Ea	\$ 400.00		\$ 400.00
124-2	Seeding and Mulching	-115	Syd	\$ 2.85	\$ (327.75)	
Subtotal - Change Order 2 Balancing					\$ (11,147.44)	\$ 20,329.02

**CITY OF NOVI
2009 PATHWAY CONSTRUCTION
PROJECT No. NV09-005
CONTRACT CHANGE ORDER No. 1**

Item No.	Description of Changes	Quantity	Unit	Unit Price	Decrease in Contract Price	Increase in Contract Price
Change Order 2 New Items - Project 3, Base						
125-2	RCOC Additional Permit	1	LS	\$ 1,800.00		\$ 1,800.00
126-2	CMP 12", Remove	22	Lft	\$ 18.00		\$ 396.00
127-2	CMP 12"	20	Lft	\$ 35.00		\$ 700.00
128-2	End Section, 12" metal	2	Ea	\$ 250.00		\$ 500.00
129-2	21aa MDOT Gravel	1	LS	\$ 950.00		\$ 950.00
130-2	Fence, Remove and Replace Additional	1	LS	\$ 500.00		\$ 500.00
131-2	Cedar Fence	88	Lft	\$ 45.00		\$ 3,960.00
132-2	Retaining Wall (Project No. 4 Clark St)	96	SFF	\$ 45.00		\$ 4,320.00
133-2	Restoration, Additional	1	LS	\$ 500.00		\$ 500.00
Change Order 2 - New Items - Project 3, Alt 1						
134-2	Mobilization	1	LS	\$ 250.00		\$ 250.00
135-2	Pre-construction Audio-Visual	1	LS	\$ 450.00		\$ 450.00
136-2	Maintaining Traffic	1	LS	\$ 500.00		\$ 500.00
137-2	12" CMP (10 Mile and Haggerty)	10	LF	\$ 40.00		\$ 400.00
138-2	21aa Crushed Limestone (10 Mile and Haggerty)	15	Syd	\$ 25.00		\$ 375.00
139-2	Riprap (10 Mile and Haggerty)	10	Syd	\$ 30.00		\$ 300.00
140-2	Labor (10 Mile and Haggerty)	16	Hrs	\$ 46.00		\$ 736.00
141-2	Backhoe and Operator (10 Mile and Haggerty)	5.5	Hrs	\$ 138.00		\$ 759.00
142-2	Sign "Business Open" (10 Mile)	1	LS	\$ 250.00		\$ 250.00
Change Order 2 - New Items - Project 3, Alt 2						
143-2	Mobilization	1	LS	\$ 250.00		\$ 250.00
144-2	Pre-construction Audio-Visual	1	LS	\$ 300.00		\$ 300.00
145-2	Maintaining Traffic	1	LS	\$ 4,464.40		\$ 4,464.40
Subtotal - Change Order 2 New Items					\$ -	\$ 22,660.40
Total Decrease / Increase in Contract Amount					\$ (11,147.44)	\$ 42,989.42
Net Increase in Contract Amount						\$ 31,841.98
Previously Adjusted Contract Amount						\$ 165,313.80
Adjusted Contract Amount to Date						\$ 197,155.78

The time provided for completion of the Contract is unchanged.
 This document shall become an Amendment to the Contract and all provisions of the Contract will apply hereto.

Item No.	Justification
6-2	Removal of additional drive at 44275 11 Mile Road
12-2	Installation of additional drive at 44275 11 Mile Road and as well as increases from other drives
37-2	Removal of additional tree due to conflict with path
47-2	Additional structures adjusted due to proximity and grading of path
48-2	Additional storm sewer necessary to drain water from the north side of Burton to Haggerty
49-2	Additional end sections necessary to drain water from the north side of Burton to Haggerty
56-2	Installation of additional bracket arm to replace pedestal
58-2	Elimination of pedestal due to bracket being more cost effective design
75-2	Removal of additional tree due to conflict with path
109-2	Elimination of drainage modification due to conflict with Buckeye Pipeline
125-2	Additional RCOC permit for design of pedestrian signals
126-2 thru 129-2, 131-2 & 133-2	Additional items to correct drainage and slopes to adjacent property along Haggerty Road
130-2	Per homeowner's request, an additional 16 LF of fence was removed and reinstalled at south end of property to provide more screening from Haggerty Road.
132-2	Additional retaining wall on Clark Street
134-2 thru 136-2 & 143-2 thru 145-2	Additional items to complete Project 3 Alternates 1 & 2 after original project was complete
137-2 thru 142-2	Additional items to install revised storm sewer due conflict with Buckeye Pipeline for designed storm sewer
7-2 thru 11-2	} Balancing Contract Items to field measured quantities
13-2 thru 28-2	
38-2 thru 46-2	
50-2 thru 52-2	
60-2 thru 74-2	
76-2 thru 107-2	
111-2 thru 124-2	

CITY OF NOVI
2009 PATHWAY CONSTRUCTION
PROJECT No. NV09-005
CONTRACT CHANGE ORDER No. 1

Audia Concrete Construction, Inc.
2985 Childs Lake
Milford, MI 48382

Accepted by
Contractor:



Mario Audia, President

Date: 12-7-09

Spalding DeDecker Associates, Inc.
905 South Boulevard East
Rochester Hills, MI 48307

Recommended by
Engineer:



Ted Meadows, Contract Administrator

Date: 12/7/09

Department of Public Services
Field Services Complex
26300 Delwal Drive
Novi, MI 48375

Approved by
Owner:



Brian Coburn, PE, Senior Civil Engineer

Date: 12/11/09

2009 Pathway Program

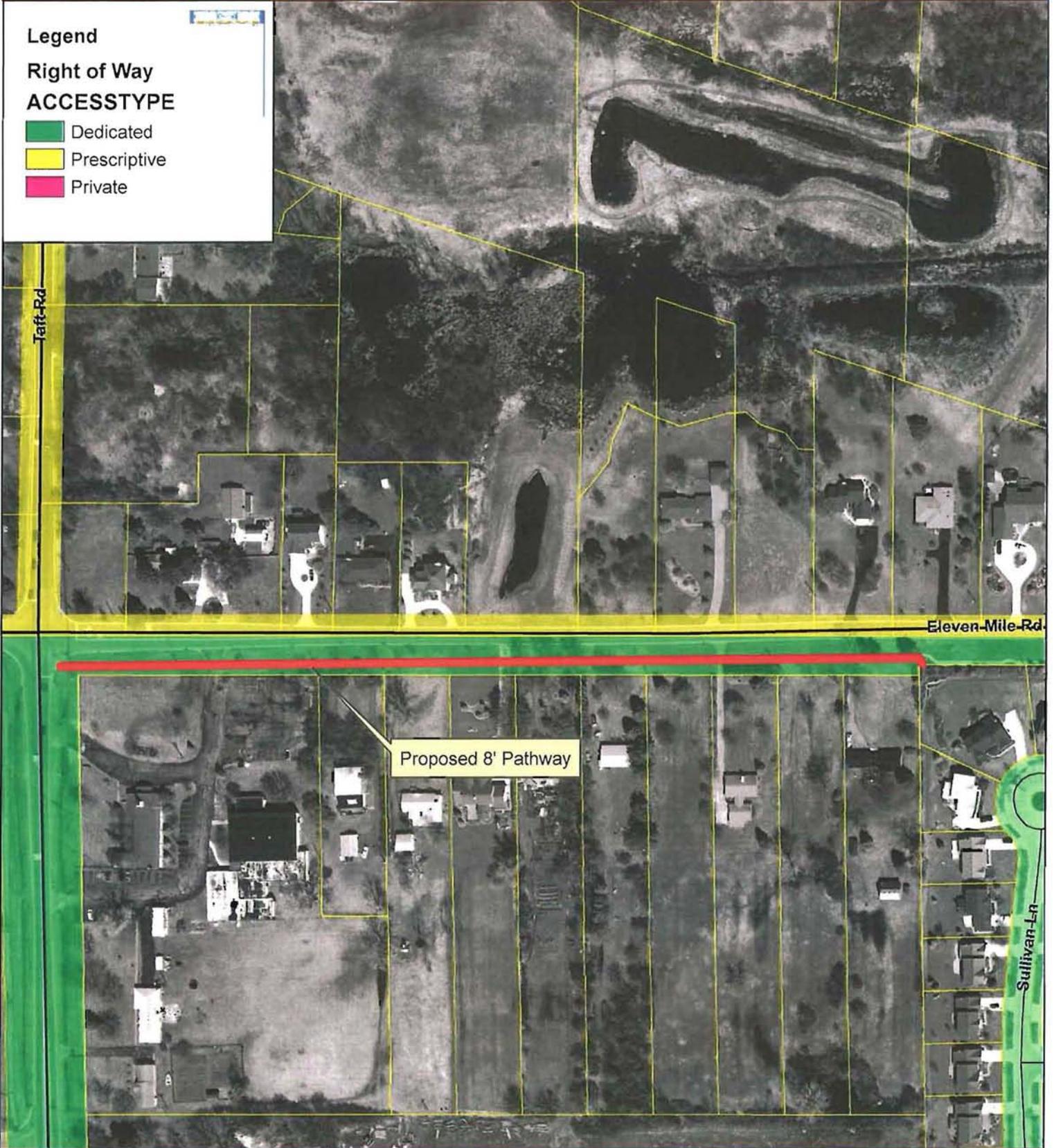
Project 1 Location Map

Legend

Right of Way

ACCESSTYPE

- Dedicated
- Prescriptive
- Private



CITY OF NOVI

ENGINEERING DIVISION

45175 W. TEN MILE ROAD
NOVI, MI 48275-3024
248-247-0454

MAP AUTHOR: Brian Coburn, PE



1 INCH EQUALS 200 FEET

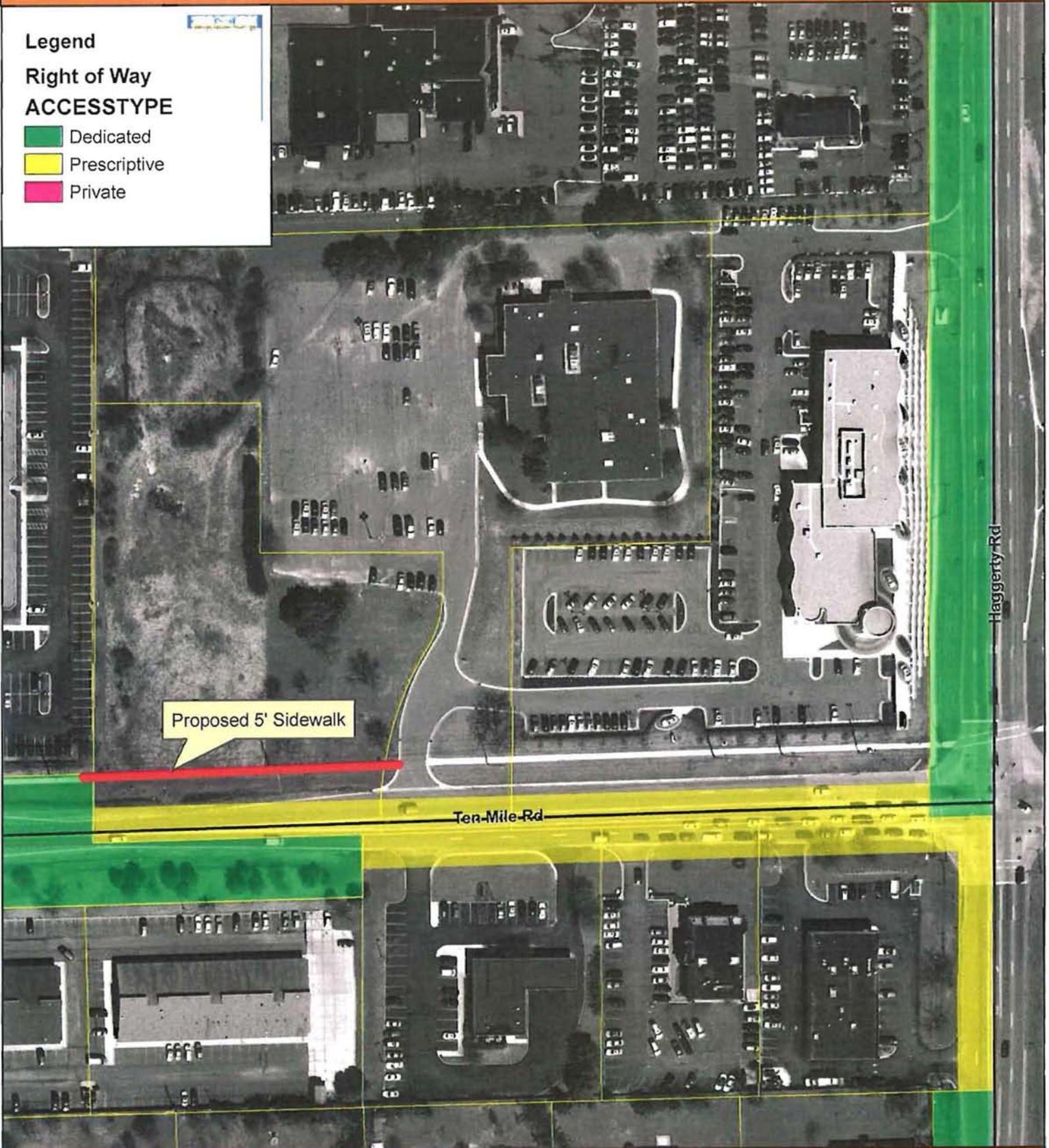
MAP PRINT DATE: 06/09

MAP INTERPRETATION NOTICE

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2009 Pathway Program Project 2 Location Map

- Legend**
- Right of Way**
- ACCESSTYPE**
- Dedicated
 - Prescriptive
 - Private



CITY OF NOVI
 ENGINEERING DIVISION
 49275 W TEN MILE ROAD
 NOVI, MI 48375-3124
 (248) 347-0452
 MAP AUTHOR: Brian Cibulka, PE

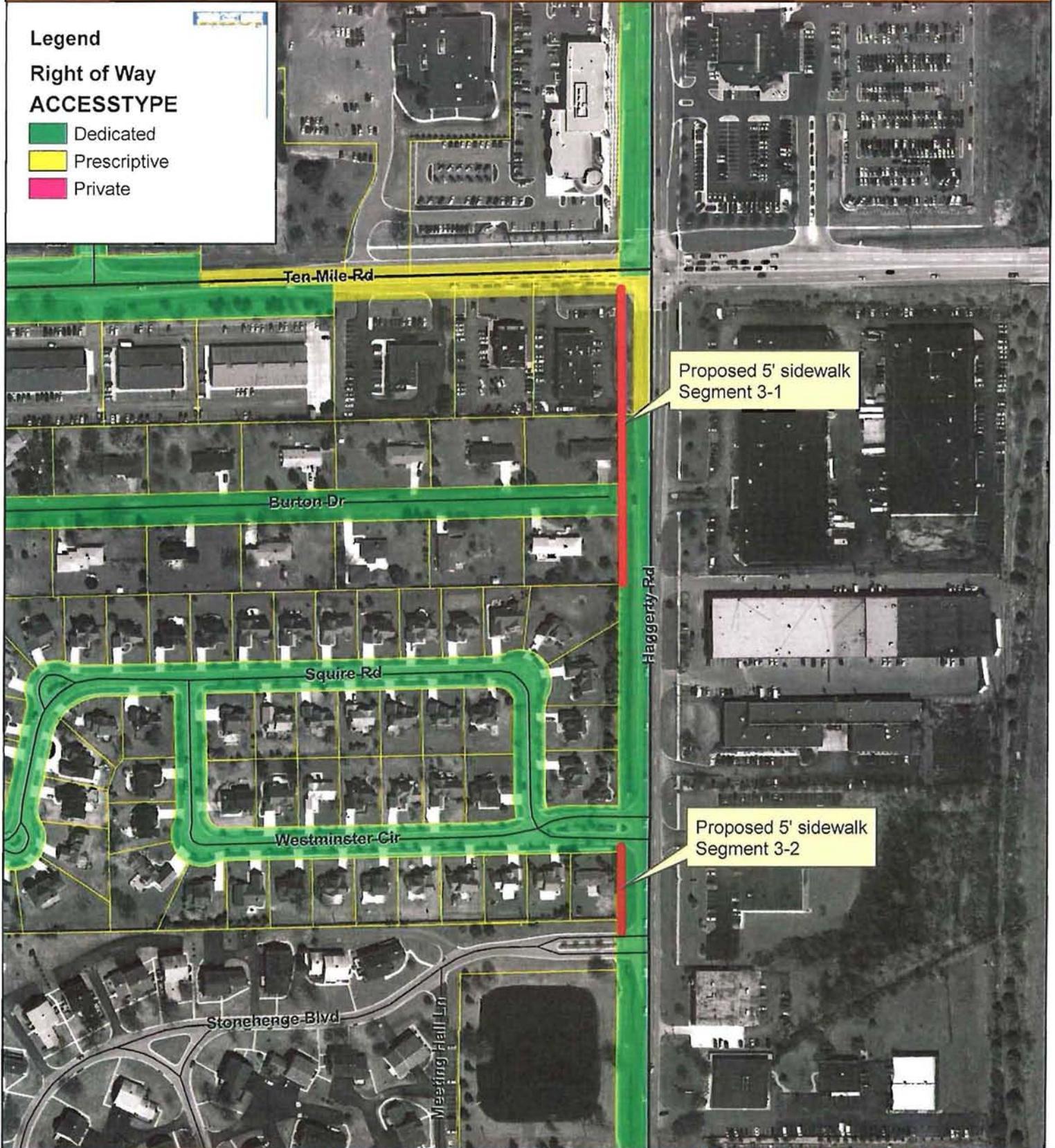


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2009 Pathway Program

Project 3 (Segments 1 and 2) Location Map

- Legend**
- Right of Way**
- ACCESSTYPE**
- Dedicated
 - Prescriptive
 - Private



CITY OF NOVI

ENGINEERING DIVISION
 4517 W. TEN MILE ROAD
 NOVI, MI 48245-3224
 (248) 347-0454
 MAP AUTHOR: Brian Coburn, P.E.



1 INCH EQUALS 250 FEET

MAP PRINT DATE: 8/2008

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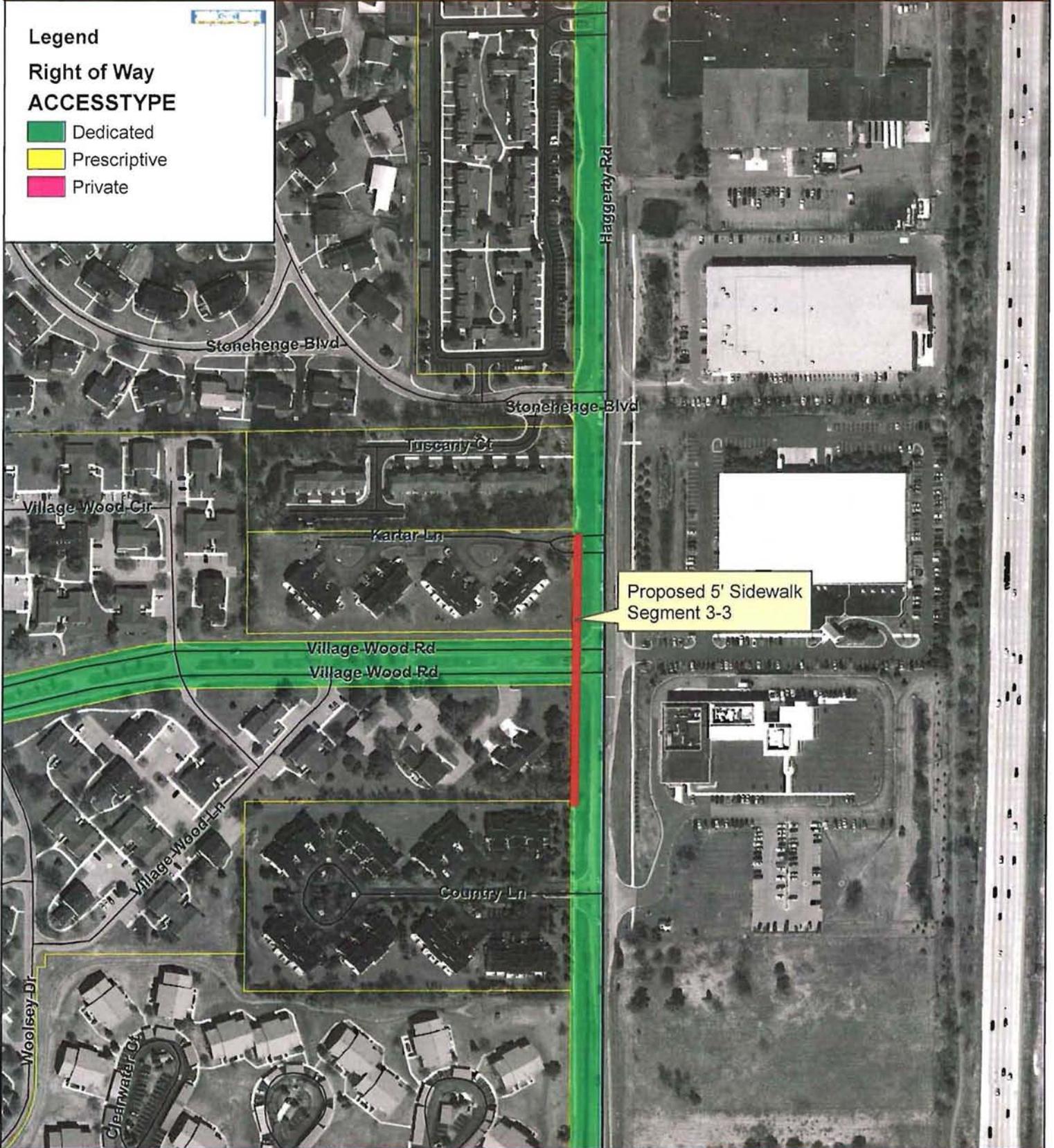
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2009 Pathway Program Project 3 (Segment 3) Location Map

Legend

Right of Way ACCESSTYPE

- Dedicated
- Prescriptive
- Private



CITY OF NOVI

ENGINEERING DIVISION

4515 W TEN MILE ROAD
NOVI, MI 48275-3024
(248) 247-2453

MAP AUTHOR: Brian Coburn, PE



1 INCH EQUALS 250 FEET

MAP PRINT DATE: 4/22/09

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