



CITY of NOVI CITY COUNCIL

Agenda Item F
December 17, 2007

SUBJECT: Approval of change orders to T & M Asphalt Paving, Inc. for the 2007 Bituminous Pathway Replacement Project resulting in a net increase to the awarded contract in the amount of \$36,713.37, for a total contract price of \$168,508.17.

SUBMITTING DEPARTMENT: Engineering *RAT*

CITY MANAGER APPROVAL: *[Signature]*

EXPENDITURE REQUIRED	\$36,713.37
AMOUNT BUDGETED	\$146,796*
LINE ITEM NUMBER	204-204.00-974.409

*Two other sidewalk projects have not been bid yet; once the projects are bid a budget amendment (if any) will be determined.

BACKGROUND INFORMATION:

The construction contract for this project, which included the rehabilitation of 7,900 lineal feet of existing bituminous asphalt pathway, was awarded to T & M Asphalt Paving, Inc. at the October 8, 2007 City Council meeting. The selected consultant for this project was Fishbeck, Thompson, Carr & Huber (FTCH).

Many of the pathway segments included in this project were installed by developers who did not provide detailed record drawings to the City. Therefore, the existing pavement cross-sections and soil conditions were largely unknown until construction commenced. Asphalt is susceptible to failure when installed over a deficient base material. The base material in many cases was not installed or was poorly compacted. Tree root intrusion was a problem in some areas that were rehabilitated.

The construction contract, as awarded, included full removal and replacement of the existing pathway. FTCH and City staff worked with the contractor to modify the project scope as needed to address pathway segments that were in better condition than anticipated and to make corrections to deficient sections of the pathway. The changes to the contract scope include:

- Mill and overlay of sections that did not warrant full reconstruction
- Installation of aggregate base course to segments where it was not previously installed
- Additional wedging to improve drainage and provide for consistent cross-section
- Work associated with 254 LF of adjacent pathway requiring repair that was added to the project

There are two contract change orders included for approval: Change Order 1, which consists of new pay items that are being added to the contract; and Change Order 3, which consists of modifications and deletions of contract pay items. (Change Order 2 was voided by FTCH and does not exist but the software used by FTCH does not allow sequential re-numbering). The total construction contract amount including the above changes totals \$168,507.17 which is less than the next lowest bidder at the time of award (S & J Asphalt Paving had a bid of \$175,887).

The work is completed with the exception of minor restoration issues to be addressed in spring 2008.

RECOMMENDED ACTION: Approval of change orders to T & M Asphalt Paving, Inc. for the 2007 Bituminous Pathway Replacement Project resulting in a net increase to the awarded contract in the amount of \$36,713.37, for a total contract price of \$168,508.17.

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

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

Client: City of Novi
 Project: 2007 BITUMINOUS PATHWAY REPLACEMENT - PO# 90597
 Contractor: T&M Asphalt Paving, Inc.

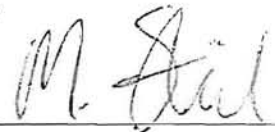
Pay Estimate No.: 1
 Period: 10/15/07 - 11/16/07
 Progress or Final: Progress payment

Item No.	Item Description	Unit	Original Authorized Quantity	CM#1	CM#3	Current Authorized Quantity	Unit Price	Quantity This Estimate	Amount This Estimate	Quantity Previously Paid	Quantity Paid to Date	Total Amount Earned to Date
1	Sawcut, Remove and Replace Bituminous Pathway	SY	7044		-3337	3707	\$16.95	3,707.00	\$ 62,833.65		3,707.0	\$ 62,833.65
2	Subgrade Undercutting	CY	100		466	566	\$20.00	566.00	\$ 11,320.00		566.0	\$ 11,320.00
3	6" Compacted 21AA Limestone Base Course	SY	50		-50	0	\$8.00	-	\$ -		-	\$ -
4	Road Commission Permit	LSUM	1		-1	0	\$0.00	-	\$ -		-	\$ -
5	Restoration	LSUM	1			1	\$10,000.00	1.00	\$ 10,000.00		1.0	\$ 10,000.00
Extra Items												
CM#1	Prep and 2" - 13A Overlay	SY		2896		2896	\$8.50	2,896.00	\$ 24,616.00		2,896.0	\$ 24,616.00
CM#1	Sawcut, Remove and Replace Bituminous Pathway (0 - 100 LF)	SY		681		681	\$21.75	681.00	\$ 14,811.75		681.0	\$ 14,811.75
CM#1	Compacted 21AA Limestone Base Course	TON		856.35		856.35	\$36.00	856.35	\$ 30,828.60		856.4	\$ 30,828.60
CM#1	Asphalt Wedging	TON		192.53		192.53	\$71.50	192.53	\$ 13,765.90		192.5	\$ 13,765.90
CM#1	Restoration (Additional LF of Pathway)	FT		264.50		264.50	\$1.26	264.50	\$ 333.27		264.5	\$ 333.27


Current Earnings: \$ 168,509.17 Total Earnings: \$ 168,509.17
 - Current Retainage: \$ 16,850.92 -Retainage to Date: \$ 16,850.92
 - Current Adjustments: \$ - -Adjustments to Date: \$ -
 Current Net Estimate: \$ 151,658.25 Total Net: \$ 151,658.25

Amount Due This Estimate: \$ 151,658.25

I certify that the items included on this report constitute my estimate of the work completed and due the contractor as of the period covered by this document.


 Mr. Michael D. Stieler, P.E. - Project Engineer Date: 11/27/07

I have reviewed this estimate on behalf of T&M Asphalt Paving, Inc. and concur with the quantities presented for the period covered by this document.


 authorized signature Date: 11-27-07
 Printed Name: DARRYL FELTON

Contract Summary
 Amount Previously Paid: \$0.00
 Total Paid: \$151,658.25
 Original Contract: \$131,795.80
 CM#1 \$84,355.52
 CM#3 -\$47,642.15
 Current Contract Amount \$168,509.17
 Percentage of Contract Completed: 100%



Contract Modification

Fisshbeck, Thompson, Carr and Huber, Inc.

1/26/2007 11:04 AM

FieldManager 4.3a

Contract: G07786, 2007 Bituminous Pathway Replacement

Cont. Mod. Number 1	Revision Number	Cont. Mod. Date 11/26/2007	Electronic File Created No	Net Change \$84,355.52	Awarded Contract Amount \$131,795.80
Route		Managing Office Fisshbeck, Thompson, Carr & Huber, Inc.			District 0
Contract Location City of Novi					

Short Description

Additional Work Items to Facilitate Field Conditions.

Description of Changes

New Items

Item Description	Item Code	Prop. Line	Proj. Line	Project	Catg.	ItemType	Proposed Quantity	Unit	Unit Price	Dollar Value
_ Prep and 2" - 13A Overlay	8137031	0006	0030	G07786	0001	Modified	2,896.000	Ton	8.50000	\$24,616.00

Reason: The condition of many areas of the existing pathway did not warrant complete removal and replacement. It was determined to overlay these areas with 2" of HMA.

_ Sawcut, Remove and Replace Bituminous Pathway (0 - 100 LF)	6057011	0007	0035	G07786	0001	Modified	681.000	Syd	21.75000	\$14,811.75
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Reason: The original contract was for the entire removal and replacement of the existing pathway. With the addition of overlaying various sections, several areas of complete removal and replacement were within the areas of the proposed overlay. This increase in the Unit Price is for the decrease in productivity.

_ Compacted 21AA Limestone Base Course	8127031	0008	0040	G07786	0001	Modified	856.350	Ton	36.00000	\$30,828.60
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Reason: The majority of the existing pathway that was removed and replaced did not have an aggregate base course. It was decided to add a minimum of 2" of 21AA base course to these areas as warranted in the field.

_ Asphalt Wedging	8507031	0009	0045	G07786	0001	Modified	192.530	Ton	71.50000	\$13,765.90
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Reason: Several areas that were selected for the 2" overlay were wedged to allow for a consistent 2" lift.



Contract Modification

Fisshbeck, Thompson, Carr and Huber, Inc.

1/26/2007 11:04 AM

FieldManager 4.3a

New Items

Item Description	Item Code	Prop. Line	Proj. Line	Project	Catg.	ItemType	Proposed Quantity	Unit	Unit Price	Dollar Value
_ Restoration (Additional LF of Pathway)	8207001	0010	0050	G07786	0001	Modified	264.500	Ft	1.26000	\$333.27

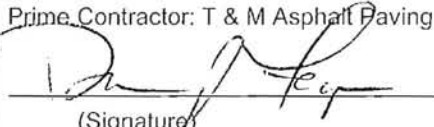
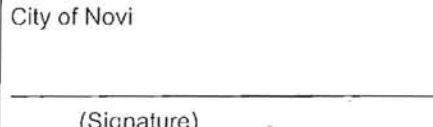
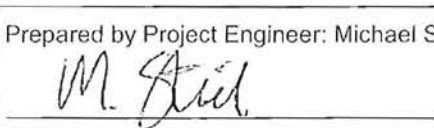
Reason: The contract LSUM amount for Restoration was bid at the contract length of Pathway. This Item is to cover the restoration of additional areas added to the contract.

Total Dollar Value: \$84,355.52

Project / Category Summary

Project/Catg	Project/Category Description	Federal Number	Project Status	Finance System	Control Section	Dollar Value
G07786	2007 Bituminous Pathway Replacement - City of Novi	0	CNST			
0001	2007 Bituminous Pathway Replacement - City of Novi					\$84,355.52
Total:						\$84,355.52

Total Net Change Amount: \$84,355.52

Prime Contractor: T & M Asphalt Paving, Inc.		City of Novi	
	<u>11-27-07</u>		<u> </u>
(Signature)	(Date)	(Signature)	(Date)
Prepared by Project Engineer: Michael Stieler, PE - FTC&H			
	<u>11/27/07</u>		
(Signature)	(Date)		



Contract Modification

Fishbeck, Thompson, Carr and Huber, Inc.

1/26/2007 11:07 AM

FieldManager 4.3a

Contract: _G07786, 2007 Bituminous Pathway Replacement

Cont. Mod. Number 3	Revision Number	Cont. Mod. Date 11/26/2007	Electronic File Created No	Net Change \$-47,642.15	Awarded Contract Amount \$131,795.80
Route		Managing Office Fishbeck, Thompson, Carr & Huber, Inc.			District 0
Contract Location City of Novi					

Short Description

Final Balancing Quantities

Description of Changes

FFM

Increases / Decreases

Item Description	Item Code	Prop. Line	Proj. Line	Project	Catg.	Item Type	Quantity Change	Unit	Unit Price	Dollar Value
Sawcut, Remove and Replace Bituminous Pa	_7786001	0001	0005	G07786	0001	Original	-3,337.000	SY	16.95000	\$-56,562.15
Reason: New Items were added to the Contract to cover this work.										
Subgrade Undercutting	_7786002	0002	0010	G07786	0001	Original	466.000	CY	20.00000	\$9,320.00
6" Compacted 21AA Limestone Base Course	_7786003	0003	0015	G07786	0001	Original	-50.000	SY	8.00000	\$-400.00
Road Commission Permit (Novi Road Only)	_7786004	0004	0020	G07786	0001	Original	-1.000	LSUM	0.00000	\$0.00

Total Dollar Value: \$-47,642.15



Contract Modification

Fisshbeck, Thompson, Carr and Huber, Inc.

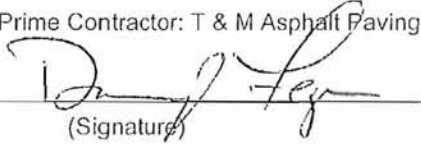
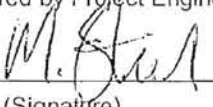
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FieldManager 4.3a

Project / Category Summary

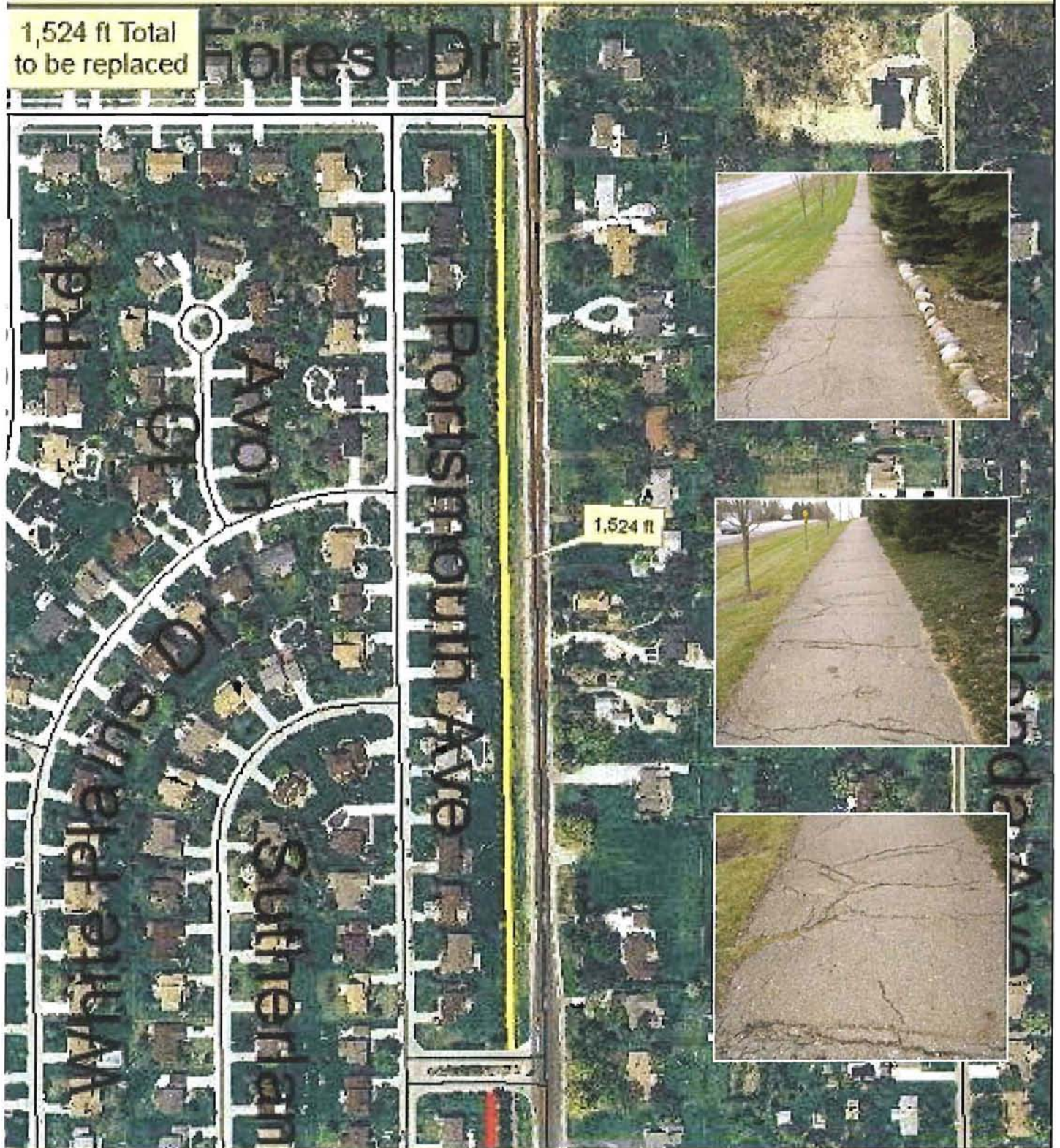
Project/Catg	Project/Category Description	Federal Number	Project Status	Finance System	Control Section	Dollar Value
G07786	2007 Bituminous Pathway Replacement - City of Novi	0	CNST			
0001	2007 Bituminous Pathway Replacement - City of Novi					\$-47,642.15
Total:						\$-47,642.15

Total Net Change Amount: \$-47,642.15

Prime Contractor: T & M Asphalt Paving, Inc.		City of Novi	
 (Signature)	11-27-07 (Date)	 (Signature)	 (Date)
Prepared by Project Engineer: Michael Stieler, PE - FTC&H			
 (Signature)	11/27/07 (Date)		

City of Novi - Bikepath Repair 2007
 Along Taft Rd Between Emerald Forest Dr and Dover Dr.

1,524 ft Total
to be replaced



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 NOVI CITY DPW OFFICES
 2600 DELWA
 NOVI, MI 48315
 (248) 751-5640
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Map Print Date: December 3, 2006
 Map Author: Jeff Van Caster

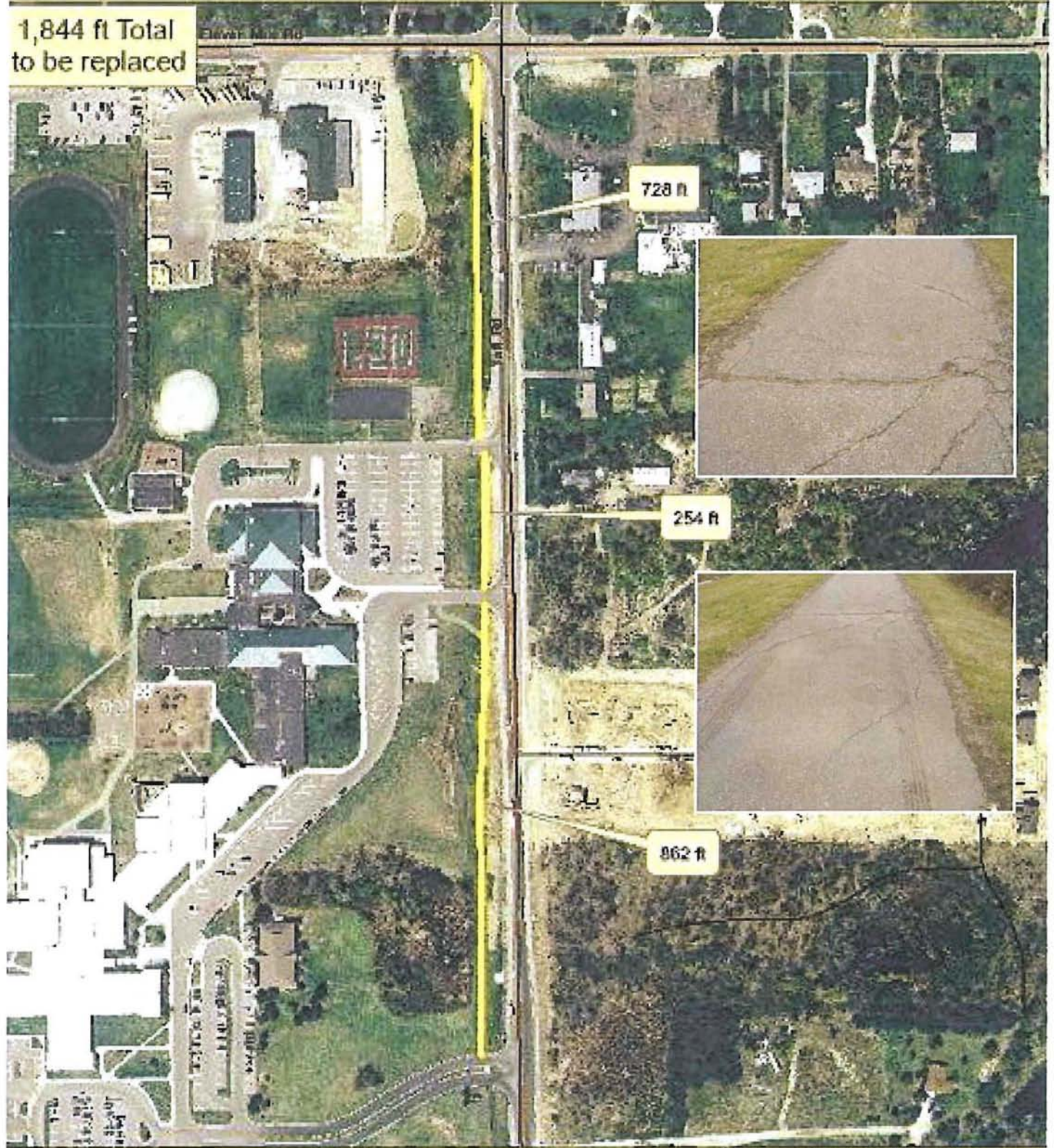


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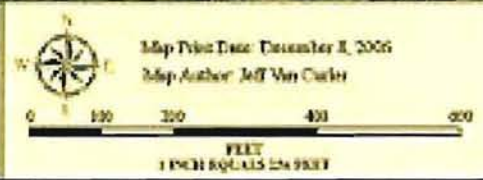
City of Novi - Bikepath Repair 2007

In front of Novi Meadows Middle School along Taft Rd.

1,844 ft Total
to be replaced



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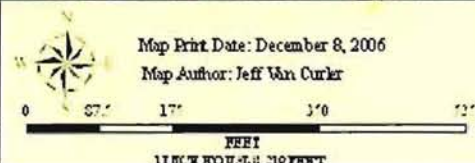
City of Novi - Bikepath Repair 2007

Along Novi Rd in front of Novi Woods

981 LF Total to be replaced



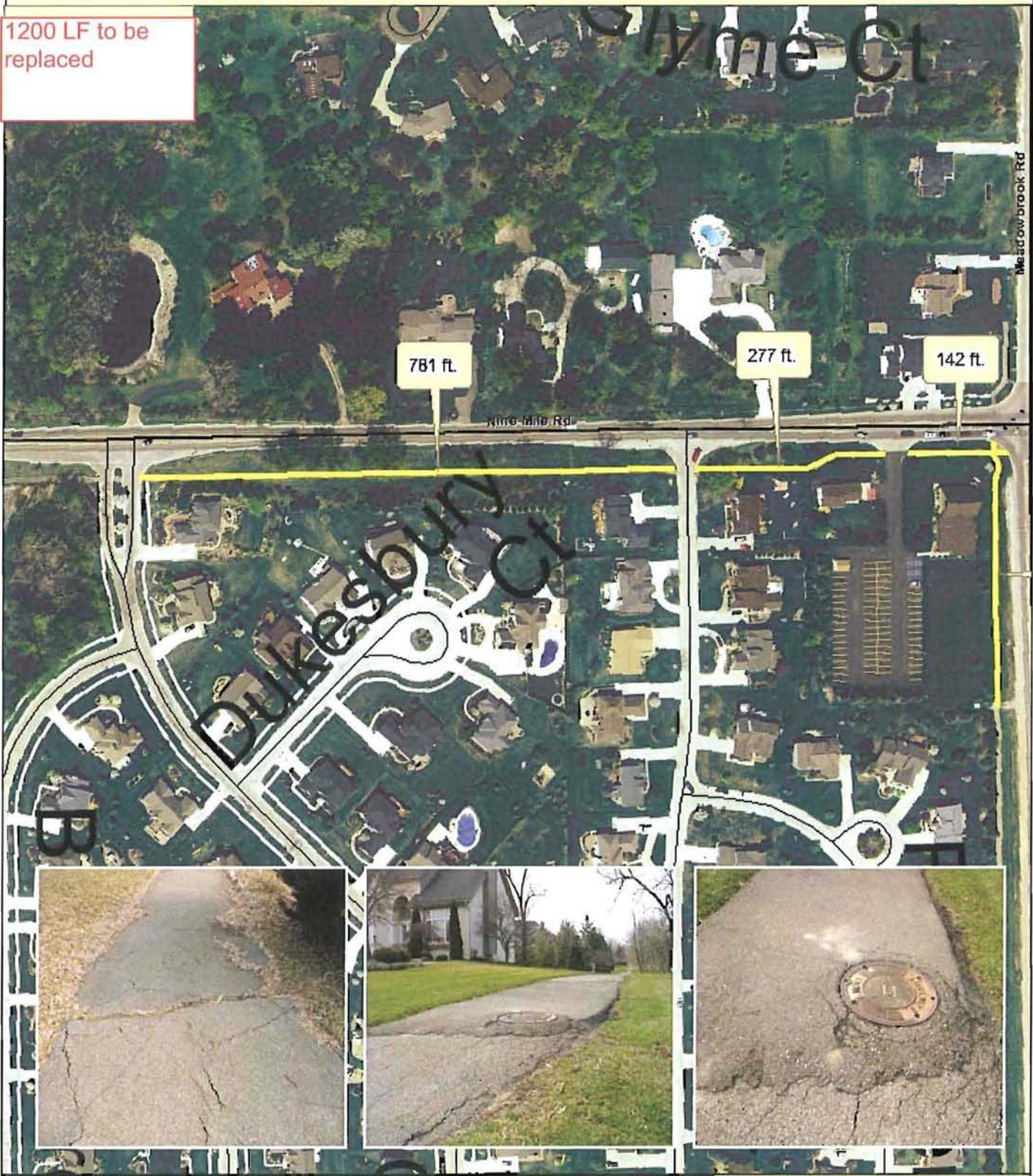
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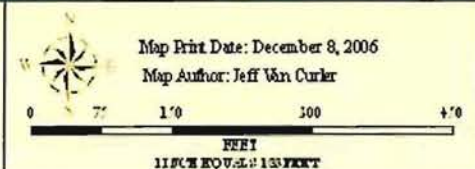
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City of Novi - Bikepath Repair 2007
 Along Nine Mile Rd in front of Chase Farms & Deerbrook.

1200 LF to be replaced



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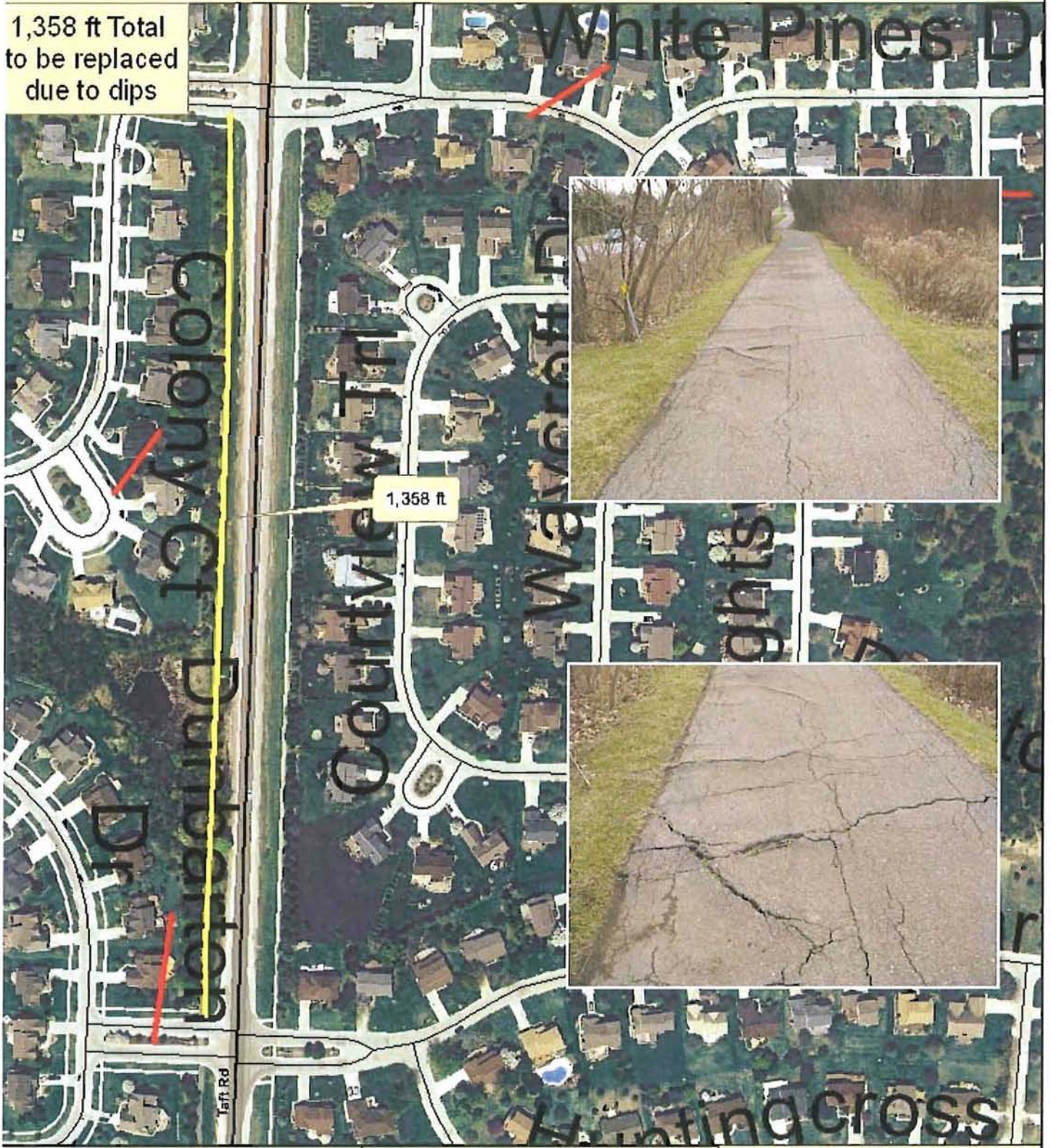


Map Print Date: December 8, 2006
 Map Author: Jeff Van Culer

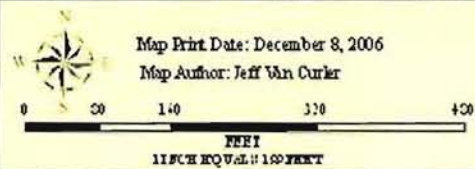
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City of Novi - Bikepath Repair 2007
 Along Taft Rd Between Dunbarton Dr and White Pines.

1,358 ft Total
 to be replaced
 due to dips



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Map Print Date: December 8, 2006
 Map Author: Jeff Van Curker

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City of Novi - Bikepath Repair 2007

Along Taft Rd south of Nine Mile Rd.

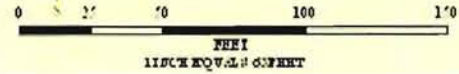
50 ft Total
to be replaced
due to dips



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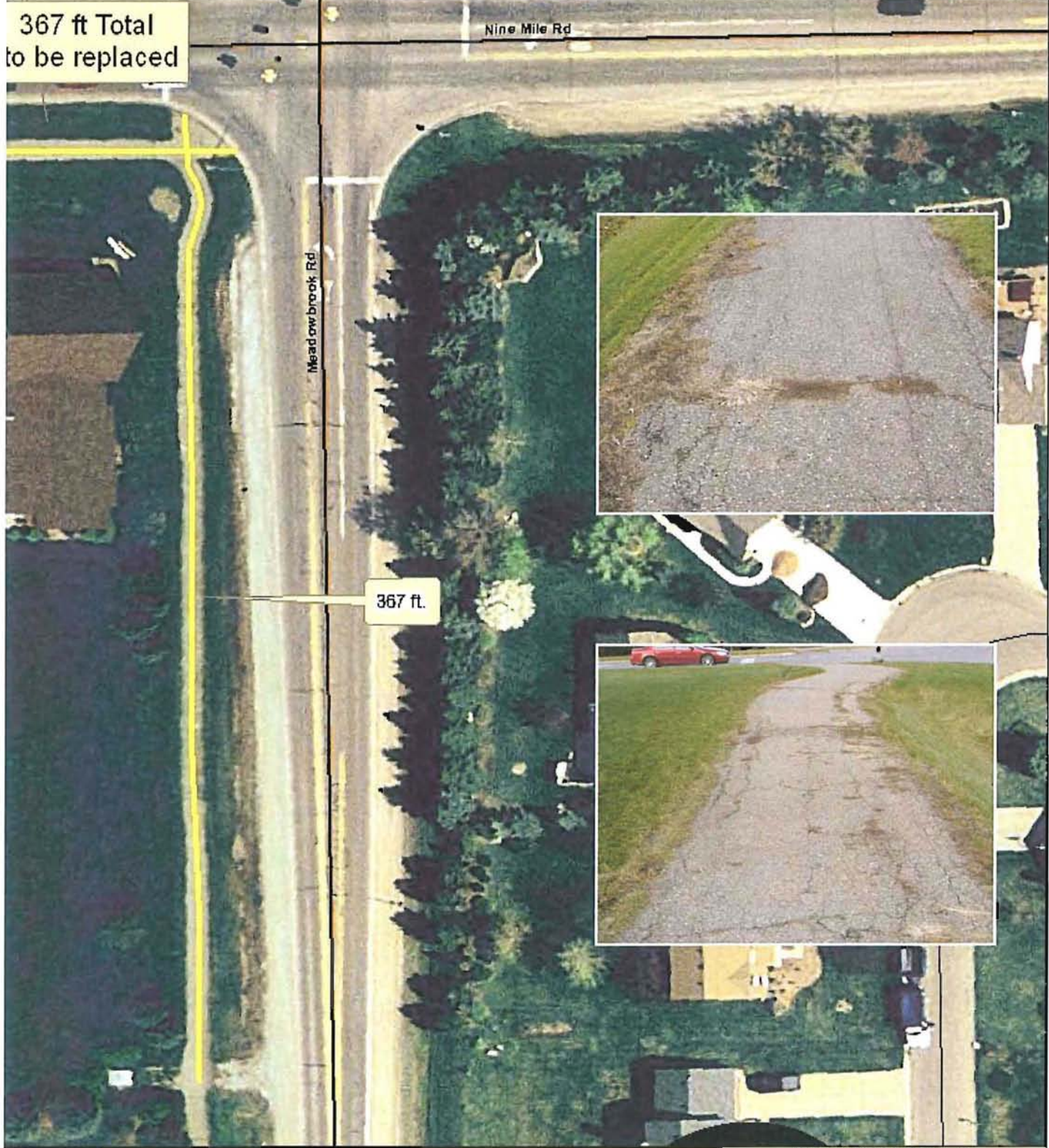
Map Print Date: December 8, 2006
 Map Author: Jeff Van Culer



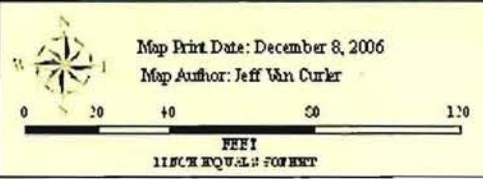
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City of Novi - Bikepath Repair 2007

Along Meadowbrook Rd Between Nine Mile Rd and Fawn Trail.



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