

**WORK SESSION**  
**Mark Ouimet, County Commissioner & Washtenaw County Administration**  
**5:30 p.m. to 7:00 p.m. - Copeland Board Room**

**THE VILLAGE OF DEXTER**  
**VILLAGE COUNCIL MEETING**  
**Monday, March 9, 2009**

**\*\*\*\*\*7:30pm\*\*\*\*\***

**Dexter Senior Center, 7720 Dexter Ann Arbor Road**

**A. CALL TO ORDER AND PLEDGE OF ALLEGIANCE**

- |                                       |                                    |                                      |
|---------------------------------------|------------------------------------|--------------------------------------|
| <b>B. ROLL CALL:</b> President Keough | J. Carson<br>D. Fisher<br>J. Smith | P. Cousins<br>J. Semifero<br>R. Tell |
|---------------------------------------|------------------------------------|--------------------------------------|

**C. APPROVAL OF THE MINUTES**

1. Regular Council Meeting Minutes – February 23, 2009

**Page# 1-6**

**D. PRE-ARRANGED PARTICIPATION:**

*Pre-arranged participation will be limited to those who notify the Village office before 5:00 p.m. Tuesday of the week preceding the meeting, stating name, intent and time requirements. (10-minute limit per participant)*

**E. APPROVAL OF AGENDA:**

**F. PUBLIC HEARINGS**

*Action on each public hearing will be taken immediately following the close of the hearing*

None

*"This meeting is open to all members of the public under Michigan Open Meetings Act."*

**[www.villageofdexter.org](http://www.villageofdexter.org)**

**G. NON-ARRANGED PARTICIPATION:**

*Non-arranged participation will include those in the audience not listed on the agenda that wish to speak. At the Village President's discretion, members of the audience may be called on to speak at any time. Those addressing the Council will state their name, and address. This section is limited to 5-minutes per participant or 10-minutes for group representatives*

**H. COMMUNICATIONS:**

1. Upcoming Meeting List
2. Municipal Employees Retirement System of Michigan – Notification of New Actuarial Assumptions
3. Town Hall Meeting Feedback Forms
4. Equalization Basin Update

**Page# 7-20**

**I. REPORTS:**

1. Department of Public Works Superintendent – Ed Lobdell

**Page# 21-28**

2. Community Development Director – Allison Bishop – Verbal Update

3. Board, Commission, & Other Reports- “Bi-annual or as needed”

Arts, Culture & Heritage Committee Representative

Dexter Area Chamber

Dexter Area Fire Department Representative

Downtown Development Authority Chair

Farmers Market Representative

Gordon Hall Mgmt Team Representative

Huron River Watershed Council Representative

Library Board Representative

Parks & Recreation Commission Chair

Planning Commission Chair

Tree Board Chair

Washtenaw Area Transportation Study Policy Committee Rep

Western Washtenaw Area Value Express Representative

4. Subcommittee Reports

*“This meeting is open to all members of the public under Michigan Open Meetings Act.”*

**[www.villageofdexter.org](http://www.villageofdexter.org)**

5. Village Manager Report

Page# 29-30

6. President's Report

Page# 31-34

**J. CONSENT AGENDA**

*Bills & Payroll will be a standing item under consent agenda. Discussion of the Budget and Financial matters will be covered under the Presidents Report as a standing item. Items under consent agenda are considered routine and will be acted upon in one motion. There will be no separate discussion of these items unless a Council Member so requests, and the item will be removed from Consent and added to the regular agenda at the end of New Business.*

1. Consideration of: Bills & Payroll in the amount of: \$ 333,443.03

Page# 35-42

2. Consideration of: Knights of Columbus – Request to sell tootsie rolls on the sidewalks of the Village April 3-5

Page# 43-44

3. Consideration of: 2008-2009 Budget Amendment – Vehicle Maintenance

Page# 45-46

**K. OLD BUSINESS- Consideration and Discussion of:**

1. Discussion of: Main Street Bridge Project – Construction Updates  
Phase 2 Funding Updates

2. Discussion of: Village Offices

Page# 47-54

3. Consideration of: Preliminary Engineering Services Agreement – Norfolk Southern Railway Company

Postponed on February 23, 2009

Motion Carson, seconded Tell to approve the Preliminary Engineering Services Agreement with Norfolk Southern Railway Company for an amount not to exceed \$30,000.

Motion Fisher, Seconded Semifero to postpone consideration of Norfolk Southern Railway Company pending further information on the County's involvement.

Page# 55-58

*"This meeting is open to all members of the public under Michigan Open Meetings Act."*

**[www.villageofdexter.org](http://www.villageofdexter.org)**

**L. NEW BUSINESS- Consideration and Discussion of:**

1. Discussion of: Traffic Warrant Investigations – School Zones and 5<sup>th</sup> Street  
**Page# 59-70**
  
2. Discussion of: Drinking Water Revolving Fund (DWRF) Project Plan Draft Review  
**Page# 71-114**
  
3. Consideration of: Orchard, Hiltz & McCliment - Scope of Services for 2009 Pavement Management Program for an amount not to exceed \$8,000  
**Page# 115-120**
  
4. Consideration of: Orchard, Hiltz & McCliment – Scope of Services related to the State Revolving Fund – Sewer Rehabilitation for an amount not to exceed \$30,000  
**Page# 121-128**
  
5. Discussion of: Michigan Natural Resources Trust Fund Grant Application  
**Page# 129-140**

**M. COUNCIL COMMENTS**

**N. NON-ARRANGED PARTICIPATION**

*Same as item F. Those addressing the Council will state their name, and address. This section is limited to 5-minutes per participant or 10-minutes for group representatives.*

**O. ADJOURNMENT**

*"This meeting is open to all members of the public under Michigan Open Meetings Act."*

**[www.villageofdexter.org](http://www.villageofdexter.org)**

DEXTER VILLAGE COUNCIL  
REGULAR MEETING  
MONDAY, FEBRUARY 23, 2009

AGENDA 3-9-09  
ITEM C-1

**A. CALL TO ORDER AND PLEDGE OF ALLEGIANCE**

The meeting was called to order at 7:30 by President Keough in the Dexter Senior Center located at 7720 Dexter Ann Arbor Rd. in Dexter, Michigan

**B. ROLL CALL:** President Keough

J. Carson	P. Cousins
D. Fisher	J. Semifero
J. Smith	R. Tell

**C. APPROVAL OF THE MINUTES**

Regular Council Meeting Minutes- February 9, 2009.

Motion Smith; support Semifero to approve the regular Council minutes of February 9, 2009 with the following correction:

I-3 – Village Manager Report should state that National City and PNC are interested in keeping the Village’s banking business.

Unanimous voice vote for approval

**D. PREARRANGED PARTICIPATION**

None

**E. APPROVAL OF THE AGENDA**

Motion Tell; support Smith to approve the agenda with the following additions:

- J-4 Consideration of: Street Closing on March 3 by Innocent Productions
- L-7 Discussion of: Mill Creek Park Funding

Unanimous voice vote for approval

**F. PUBLIC HEARINGS**

None

**G. NON-ARRANGED PARTICIPATION**

Mark Ouimet, County Commissioner, gave an update on the County’s budgeting process and that they will be seeing a cash flow issue by 2010 and will begin with reductions and changes in 2009. Mark requested an opportunity to give a presentation on the budget and will do so at the March 9 workshop prior to the Council Meeting.

**H. COMMUNICATIONS:**

1. Upcoming Meeting List
2. Appointment of Trustee Carson to the Michigan Municipal League’s Municipal Finance Committee

3. Proclamation for Encore Theatre
4. Village & Downtown Development Authority Qualifying Statements
5. Baker/ Shield Intersection Concern

## I. REPORTS

### 1. Board, Commission & Other Reports – “Bi-annual or as needed”

#### A. Dexter Area Fire Department Representative – Joe Semifero

Mr. Semifero explained the breakdown on the budget, run history and cost allocation. He indicated that there is no line item for capital reserve. Mr. Tell, an at large member of the Dexter Area Fire Department Board, reported on possibly moving to monthly meetings rather than bi-monthly meetings, the need for an administrator, questions regarding Mr. Tells appointment to the at large position and term length, and desire to have fire reports collated.

#### B. Library Board Representative - Pat Cousins

Mrs. Cousins reported that the old library building is in the final stages of sale and all old materials have been moved to the new site. There is still some finish work to be done and March 8 will be a special open house by invitation. On March 9 the Library will be open to the public and March 28 at 11 am will be the dedication ceremony.

#### C. Washtenaw Area Transportation Study Policy Committee Rep.–Jim Carson

Mr. Carson distributed a report on the direction the county is moving on projects that is to be finalized on March 18. Mr. Carson explained the Washtenaw Area Transportation Study Urban Stimulus program and unfunded projects which have gone to Lansing to look for other stimulus monies.

### 2. Subcommittee Reports

No affected reports

### 3. Village Manager Report

Mrs. Dettling submits her report as per packet. In addition the Village Manager reported on the following: need to be thinking about job creation in the Village and working with SPARK, working on a zoning district or applying for a deed restriction for parkland protection, and looking for a date for budget planning probably later in March.

### 4. President’s Report

Mr. Keough submits his report as per packet. In addition Mr. Keough spoke of attending a special DDA meeting to pay bills and approve a geotechnical bids, received a communication from Richard Fleece regarding Gordon Hall septic issue, mentioned Bill Tupper’s request to raise loan value against purchase money from old DAPCO building sale, and received a letter from St. Joseph Church to attend a community leaders meeting which Ms. Fisher will attend as Mr. Keough will be out of town.

## J. CONSENT AGENDA

1. Consideration of: Bills and Payroll in the amount of \$153,240.75
2. Consideration of: Approval of 2009 Dexter Ann Arbor Run on Sunday, May 31
3. Consideration of: Appointment of Tom Rosenbaum to the Arts, Culture & Heritage Committee
4. Consideration of: Closing of Fourth Street from Dover to Edison on March 3, 2009 by Innocent Productions for movie filming

Motion Fisher; support Smith to approve the consent agenda as presented.  
Unanimous voice vote for approval

**K. OLD BUSINESS-Consideration and Discussion of:**

1. Discussion of: Main Street Bridge Project- Construction Updates  
Phase 2 Funding Updates  
Meeting on March 17, 2009 to discuss the upcoming construction season.
2. Discussion of: Village Offices  
Reviewed cost estimates provided and how they relate to possible building options. Request from Mr. Cousins to have a work session on village offices and options.
3. Consideration of: Preliminary Engineering Services Agreement - Norfolk Southern Railway Company

Postponed on February 9, 2009

Motion Cousins; support Smith to postpone for further clarification of Agreement for Preliminary Engineering Services between the Village of Dexter and Norfolk Southern Railway Company.

Ayes: Cousins, Fisher, Smith, Semifero, Tell, Carson and Keough  
Nays: None  
Motion carries

**L. NEW BUSINESS-Consideration of and Discussion of:**

1. Consideration of: Ryan Drive Traffic Calming Bid Award

Motion Smith; support Cousins to authorize GM and Sons to complete the Ryan Drive Traffic Calming improvements in an amount not to exceed \$24,501.00 and to authorize a \$10,000.00 budget amendment.

Ayes: Smith, Semifero, Tell, Carson, Fisher, Cousins and Keough  
Nays: None  
Motion carries

2. Consideration of: Parks and Recreation Master Plan

Motion Semifero; support Carson to adopt the 2009 Village of Dexter Parks and Recreation Master Plan, dated February 17, 2009.

Ayes: Semifero, Tell, Fisher, Carson, Cousins, Smith and Keough

Nays: None

Motion carries

3. Consideration of: Rezoning of Former Pilot Industries Property (7905 Grand, 7931 Grand and Grand Street Vacant Lot) from I-1 to C-1

Motion Tell; support Smith per section 23.05, Criteria for Amendment to Official Zoning Map and the Planning Commission recommendation, the Village Council has determined that the conditions upon which the Master Plan was developed (such as market factors, demographics, infrastructure, traffic and environmental issues) have changed significantly since the Master Plan was adopted and has considered recent development trends in the area and therefore denies rezoning parcels HD-08-06-427-001, HD-08-06-427-002 and HD-08-06-155-001 from I-1 to C-1 at this time.

Ayes: Tell, Carson, Cousins, Smith, Fisher and Keough

Nays: Semifero

Motion carries

4. Consideration of: Purchase of Forest Lawn Cemetery Floodplain

Motion Cousins; support Semifero to allow the Village Manager to enter into a purchase agreement with the Forest Lawn Cemetery for the vacant land formerly part of the Mill Pond and adjacent to the Forest Lawn Cemetery in the amount of \$12,000.00 per said agreement.

Ayes: Carson, Cousins, Fisher, Smith, Semifero, Tell and Keough

Nays: None

Motion carries

5. Discussion of: 2009 Road Maintenance Program

Ms. Nicholls explained the proposed street maintenance. A portion of Dan Hoey Road will be done in cape seal as an example to determine which surface should be used. The Village has a new software program which will help put together a road maintenance plan for the future.

6. Discussion of: Town Hall Meeting

Ms. Nicholls presented the format to be used for the Town Hall Meeting on February 26, 2009

7. Discussion of: Mill Creek Park Funding

Ms. Bishop prepared a spreadsheet on the costs of Phase 1 on the Mill Creek Park. There is a need for 14 foot paths to qualify for funding.

**M. COUNCIL COMMENTS**

Carson	None
Fisher	Asked how parks got their name and to inform Council when there are vacancies on Boards and Commissions.
Cousins	Will be out of town from March 17-26. Will be attending the Ann Arbor Convention and Visitor Bureau's breakfast on February 24 on the film industry in Washtenaw County
Jones	The Washtenaw Historical Society will be holding an exhibit at their museum on immigrants to the county from March 1 to July 1. Featured in this exhibit is my great, great grandfather, Gottlob Mast.
Smith	Attended elected officials academy sponsored by the Michigan Municipal League
Semifero	Is there a file maintained for board, committee and commission applications?
Tell	None

**N. NON-ARRANGED PARTICIPATION**

None

**O. ADJOURNMENT**

Motion Tell; support Smith to adjourn at 10:51.

Unanimous voice vote for approval

Respectfully submitted,

Carol J. Jones  
Clerk, Village of Dexter

Approved for Filing: \_\_\_\_\_



## 2009 Upcoming Meetings

Board	Date	Time	Location	Website	Village Representative
Dexter Area Historical Society	3/5/2009	7:30 p.m.	Dexter Area Historical Museum	<a href="http://www.hvcn.org/info/dextermuseum/">http://www.hvcn.org/info/dextermuseum/</a>	
Scio Township Downtown Development Authority	3/9/2009	12:00 p.m.	Scio Township Hall	<a href="http://www.twp.scio.mi.us/">http://www.twp.scio.mi.us/</a>	
Scio Township Planning	3/9/2009	7:30 p.m.	Scio Township Hall	<a href="http://www.twp.scio.mi.us/">http://www.twp.scio.mi.us/</a>	
Village Arts, Culture & Heritage Committee	3/10/2009	7:00 p.m.	Senior Center	<a href="http://www.villageofdexter.org">http://www.villageofdexter.org</a>	Paul Cousins
Chelsea City Council	3/10/2009	7:00 p.m.	Washington Street Education Center	<a href="http://www.city-chelsea.org/">http://www.city-chelsea.org/</a>	
Dexter Township Planning	3/10/2009	7:00 p.m.	Dexter Township Hall	<a href="http://www.twp-dexter.org/">http://www.twp-dexter.org/</a>	
Scio Township Board	3/10/2009	7:00 p.m.	Scio Township Hall	<a href="http://www.twp.scio.mi.us/">http://www.twp.scio.mi.us/</a>	
Dexter Area Chamber of Commerce	3/11/2009	7:30 a.m.	Chamber Offices	<a href="http://www.dexterchamber.org/">http://www.dexterchamber.org/</a>	Paul Cousins
Dexter Downtown Development Authority	3/12/2009	7:30 p.m.	Senior Center	<a href="http://www.villageofdexter.org">http://www.villageofdexter.org</a>	Shawn Keough
Chelsea Area Planning Team/Dexter Area Regional T	3/16/2009	7:00 p.m.	Webster Township Hall	<a href="http://www.ewashtenaw.org/">http://www.ewashtenaw.org/</a>	Jim Carson
Dexter Community Schools Board of Education	3/16/2009	7:00 p.m.	Creekside Intermediate School	<a href="http://web.dexter.k12.mi.us/">http://web.dexter.k12.mi.us/</a>	
Dexter Village Zoning Board of Appeals	3/16/2009	7:00 p.m.	Senior Center	<a href="http://www.villageofdexter.org">http://www.villageofdexter.org</a>	Ray Tell
Dexter Township Board	3/17/2009	7:00 p.m.	Dexter Township Hall	<a href="http://www.twp-dexter.org/">http://www.twp-dexter.org/</a>	
Dexter Village Parks Commission/Trust Fund Hearing	3/17/2009	7:00 p.m.	Senior Center	<a href="http://www.villageofdexter.org">http://www.villageofdexter.org</a>	Joe Semifero
Dexter Village Tree Board	3/17/2009	5:30 p.m.	Senior Center	<a href="http://www.villageofdexter.org">http://www.villageofdexter.org</a>	
Washtenaw County Road Commission	3/17/2009	1:00 p.m.	Road Commission Offices	<a href="http://www.wcroads.org/">http://www.wcroads.org/</a>	
Webster Township Board	3/17/2009	7:30 p.m.	Webster Township Hall	<a href="http://www.twp.webster.mi.us/">http://www.twp.webster.mi.us/</a>	
Washtenaw Area Transportation Study-Policy	3/18/2009	9:30 a.m.	Scio Township Hall	<a href="http://www.miwats.org/">http://www.miwats.org/</a>	Jim Carson
Washtenaw County Board of Commissioners	3/18/2009	6:45 p.m.	Board Room, Admin Building	<a href="http://www.ewashtenaw.org/government/boc/">http://www.ewashtenaw.org/government/boc/</a>	
Webster Township Planning	3/18/2009	7:30 p.m.	Webster Township Hall	<a href="http://www.twp.webster.mi.us/">http://www.twp.webster.mi.us/</a>	
Healthy Community Walking Committee	3/19/2009	8:30 a.m.	Chelsea Hospital - White Oak Room		Paul Cousins

Due to the possibility of cancellations please verify the meeting date with the listed website or the Village Representative

MEMO  
3-9-09  
H-1





**Municipal Employees' Retirement System of Michigan**  
1134 Municipal Way, Lansing, Michigan 48917

Annie M. Wagner, Chief Executive Officer

Phone (517) 703-9030 • (800) 767-6377 • Fax (517) 327-8336 • Website: [www.mersofmich.com](http://www.mersofmich.com)

AGENDA 3-9-09

ITEM H-2

February 17, 2009

Dear MERS Employer,

As you know, the MERS Retirement Board is charged with the fiduciary responsibility of overseeing the retirement system. Specifically related to carrying out their duty, the Board requires the actuary to conduct an Experience Study on a five-year cycle. Over the years, the findings of those studies have resulted in adjustments to various assumptions to accurately reflect the actual experience of the plan. This study process ensures the health and sustainability of the plan. Please find attached an analysis from MERS actuary, Gabriel Roeder, Smith & Company, on the effect the most recent experience study will have for your specific retirement plan.

For the calendar year ending December 31, 2008, the MERS portfolio returned -25%. The 10-year smoothing of assets adopted by the Board in 2006 will mitigate some of the impact of these losses to your plan by recognizing only 1/10<sup>th</sup> of the loss in the 2008 actuarial valuation report. During these difficult economic times, the Retirement Board is very concerned about the impact increased contributions may have on your budget. For this reason, the Board has chosen a phased-in approach to assumption rate changes.

If you have any questions regarding the enclosed information on how the new rates will impact your plan, please call your regional manager at MERS (1-800-767-6377) for more clarification.

Sincerely,

Anne M. Wagner  
Chief Executive Officer

# Municipal Employees' Retirement System of Michigan (MERS)

## Village of Dexter (8217)

### New Actuarial Assumptions for Fiscal Years Beginning in 2010, 2011 and 2012

At the May 14, 2008 meeting of the Retirement Board, the Board adopted a timetable for implementation of new Board-approved actuarial assumptions recommended by Gabriel, Roeder, Smith & Company, MERS' actuary. These assumption changes represent the final recommendations made by the actuary in the most recent study of MERS experience covering the 1999 - 2003 valuation years. Updating the assumptions to better match actual experience, with the resulting changes in near-term employer contributions, may prevent potentially larger changes in employer contributions at some point in the future.

Actuarial assumptions are reviewed every 5 years, and sometimes more often. The purpose of the periodic reviews is to increase the security of members' retirement benefits, by more accurately reflecting the 'real life' experience of MERS. This allows the actuary to better project future benefit payments, and better plan for the employer contributions needed to make those benefit payments secure. The implementation timetable for the new assumptions provides:

<u>Valuation Date</u> <u>December 31,</u>	<u>First Affecting</u> <u>Fiscal Years</u> <u>Beginning in</u>	<u>New Assumption</u>
2008	2010	Rates of expected employee turnover (withdrawal, or termination of employment before retirement)
2009	2011	Rates of expected employee retirement
2010	2012	Potential increases in employees' FAC *

\* Potential increases in employees' final average compensation (and lifetime pension benefits) due to increases in pay or lump sum payments made at or shortly before retirement (generally due to payments for accrued paid time off, vacation time, overtime, etc.)

The table on the next page shows the approximate changes in your employer contribution requirements in fiscal years beginning in 2010, 2011 and 2012 due to these changes in actuarial assumptions. This is in addition to changes in the contribution requirements (up or down) due to any changes in your active member payroll, changes in your benefit provisions, financial market influences, or other differences between projected and actual experience. The actual impact on required contributions will be determined by the 2008, 2009 and 2010 actuarial valuations, but the results on the next page (based on the 2007 valuation) show the approximate percentage change.

Later in 2009, MERS staff will contact municipalities and courts to discuss how final average compensation is computed, and how an employer's compensation policy affects MERS pension amounts and the required employer contributions to MERS.

**Overall MERS continues to be a well-funded and secure retirement plan.** Ongoing review and strengthening of actuarial assumptions to match actual events will better position MERS employers to meet their future benefit obligations. This improves the security of members' benefits. The next experience study, for the 2004 – 2008 period, will begin in the summer of 2009 after completion of the 2008 valuations.

**Comment on Actuarial Calculations –** The projections of your future employer contributions in this report indicate what the December 31, 2007 valuation results would have been, based on the new actuarial assumptions. As always, your required employer contribution rate changes every year, in response to demographic changes, financial experience, benefit provision changes, etc, within your specific plan. The results of future actuarial valuations will differ from the projections, sometimes materially. However, the estimates in this report should allow the employer to prepare for the approximate effect of the assumption changes.

Below is a table displaying your required employer contributions under each set of assumptions, *calculated as if the three new assumptions had been in place for your December 31, 2007 valuation*. This is *not* a prediction of the results of future annual valuations. It only shows the impact the new assumptions would have had on the 2007 annual valuation. Note that not every employer is affected by the new FAC increase assumption, based on the 1999 - 2003 study.

<u>Actuarial Assumptions</u>	<u>First Affecting Fiscal Years Beginning in</u>	<u>Estimated Total Required Annual Employer Contribution*</u>	<u>Accumulated Percentage Change Compared to Current Assumptions**</u>
Current assumptions		\$79,716	- %
After new rates of expected turnover	2010	86,628	9 %
After new rates of expected retirement	2011	94,356	18 %
After potential increases in FAC	2012	94,356	18 %

\* Estimate based on 2007 valuation payroll. Your actual future required contributions will be different.

\*\* These are the accumulated impact of changes recognized for the fiscal year stated. Do not add these percentages together. For example, for the fiscal year beginning in 2011, the accumulated impact of the change in the expected turnover assumption and the change in the expected retirement assumption is a 18% increase in the employer contribution requirement (18 cents on the dollar, not 18% of member payroll).

**Comment on the Investment Markets** - Investment markets were very volatile in 2008, and some volatility is likely to continue. The actuarial value of assets (funding value), used to determine both your funded status and your required employer contribution, is based on a 10-year smoothed value of assets. Only a portion (1/10<sup>th</sup>) of the 2008 investment market losses will be recognized in the first year, in your December 31, 2008 actuarial valuation report. This reduces the volatility of the valuation results (your required employer contribution and your funded percentage). The impacts of the 2008 market losses are estimated to be: i) a reduction of around 2% in your funded percent as of December 31, 2008, and ii) a 5% increase (5 cents on the dollar) in your employer contribution requirement for your fiscal year beginning in 2010.

Although final data has not been provided to the actuary, it is estimated that as of December 31, 2008 the actuarial value of assets is around 139% of market value. This means that meeting the actuarial assumption in the next few years will require average future market returns that exceed the 8% investment return assumption. As was true for past market downturns, MERS expects the market to rebound over time. By the time the 2008 market losses would be fully recognized (over the following 9 years), future market gains are expected to partly or fully offset 2008 market losses. This smoothing method is a powerful tool for reducing the volatility of your required employer contributions. However, if the financial markets do not rebound, the result would be increases in your employer contributions each of the next 9 years, comparable to the first year impact shown in the previous paragraph.

**Comment on Actuarial Calculations** – The projections of your future employer contributions in this report indicate what the December 31, 2007 valuation results would have been, based on the new actuarial assumptions. As always, your required employer contribution rate changes every year, in response to demographic changes, financial experience, benefit provision changes, etc, within your specific plan. The results of future actuarial valuations will differ from the projections, sometimes materially. However, the estimates in this report should allow the employer to prepare for the approximate effect of the assumption changes.



Excellent Session

AGENDA 3-9-09

Town Hall Meeting Feedback

ITEM H-3

What was the best thing about today's town hall meeting?

I'm GLAD I'm LIVING IN WASHTEVAD COUNTY!  
VERY EFFICIENT AND WELL TRAINED RESPONDERS  
IN EVERY AREA - FIRE-MEDICAL ETC.

What (if anything) did you dislike about today's town hall meeting?

How did you hear about tonight's meeting?

AA NEWS & BANNER across Main St.

Suggestions for future improvements:

CONTINUE INFORMING THE PUBLIC OF THE  
LATEST CHANGES AND IMPROVEMENTS

Town Hall Meeting Feedback

What was the best thing about today's town hall meeting?

opportunity to hear from each area - and time for  
questions -

What (if anything) did you dislike about today's town hall meeting?

nothing

How did you hear about tonight's meeting?

Post Card - Newspaper

Suggestions for future improvements:

Town Hall Meeting Feedback

What was the best thing about today's town hall meeting?

*It was very informative about important village services*

What (if anything) did you dislike about today's town hall meeting?

How did you hear about tonight's meeting?

*Village postcard, Better Leader*

Suggestions for future improvements:

Town Hall Meeting Feedback

What was the best thing about today's town hall meeting?

*Very informative  
Professional people  
Thanks for local government*

What (if anything) did you dislike about today's town hall meeting?

*I liked everything tonight*

How did you hear about tonight's meeting?

*By listening to my wife.*

Suggestions for future improvements:

Town Hall Meeting Feedback

What was the best thing about today's town hall meeting?

---

---

---

What (if anything) did you dislike about today's town hall meeting?

The people - didn't speak up so we could hear them.

---

---

How did you hear about tonight's meeting?

I got a card from you about the meeting

---

Suggestions for future improvements:

---

---

Town Hall Meeting Feedback

What was the best thing about today's town hall meeting?

This was very informative and well worth the time. Thank you!

---

---

What (if anything) did you dislike about today's town hall meeting?

---

---

---

How did you hear about tonight's meeting?

---

Suggestions for future improvements:

---

---

Town Hall Meeting Feedback

What was the best thing about today's town hall meeting?

*Very informative*

What (if anything) did you dislike about today's town hall meeting?

*Need more time for Q&A @ end for general questions*

How did you hear about tonight's meeting?

*Council mtg, banner*

Suggestions for future improvements:

*CPR teaching in Dept - for all residents also online*

Town Hall Meeting Feedback

What was the best thing about today's town hall meeting?

*Everything was so interesting*

What (if anything) did you dislike about today's town hall meeting?

*It was great*

How did you hear about tonight's meeting?

*Paper*

Suggestions for future improvements:

*More of the same*

Town Hall Meeting Feedback

What was the best thing about today's town hall meeting?

---

---

---

What (if anything) did you dislike about today's town hall meeting?

---

---

---

How did you hear about tonight's meeting?

VILLAGE SIGN / BANNER

Suggestions for future improvements:

---

---



# Memorandum

AGENDA 3-9-09  
ITEM H-4



Date: March 4, 2009

To: Courtney Nicholls, Asst Village Manager

From: Christine A. Gale, PE

Re: EQ Basin Design Update

The design for the equalization basin is underway. The design team has met three times with Ed Lobdell and Dan Schlaff to review options on how to divert flow to the EQ basin and method of control. Advantages and disadvantages of the various options were discussed. Costs for two specific options were then developed. One option incorporated pumping sewage into the basin and the other option reviewed using a gravity feed into the basin. Based on the advantages of operation, the Village selected the gravity feed option for the final design.

Draft plans will be completed the week of March 16th. A meeting will be held with the Village staff to review the plans. Draft plan submittal to the MDEQ of the 30% design is required by March 25th per the adopted milestone schedule.



AGENDA 3-9-09

ITEM I-1

# VILLAGE OF DEXTER

PUBLIC SERVICES DEPT.

8360 HURON ST.

DEXTER MI 48130

(734) 426-4572

FAX (734) 426-5466

TO: VILLAGE COUNCIL  
FROM: ED LOBDELL  
SUBJECT: PUBLIC SERVICES UPDATE  
DATE: 2-02-09

---

Attached you will find an update for the Water and Sewer Departments, along with an update from the Streets Department.

- 1 - Water meter work completed during this period, (November 1, 2008 - February 28, 2009).
- 2 - Water meter work this fiscal year.
- 3 - Other work completed during this period.
- 4 - CIP Update.
- 5 - Streets Update.

Should you have any questions, please call or stop by.

Respectfully Submitted:

Ed Lobdell  
Public Services Supt.

---

## UTILITY DEPT. WATER METER/SERVICE CALL UPDATE

---

For the period beginning November 1, 2008 and ending February 28, 2009 the following denotes work completed.

New meter and read units installed	- 4
Water only meters installed	- 0
Read unit maintenance	- 7
Miss Digs	- 27
All other service calls	- 62

---

Along with the above items, other tasks performed during this period are as follows.

Flushing select sewers	- Monthly
Reading meters	- Bi-monthly
Checking all lift stations	- Weekly
Backwashing filter plant	- Weekly

Assisted with water tie-in at Westridge for the Cedars.

Conducted eight plant tours for Ann Arbor Schools - Week of November 3<sup>rd</sup>.

Conducted five plant tours for Ann Arbor Schools - Week of November 10<sup>th</sup>.

Ordered and monitored installation of bulk tank for chlorine - 12-15-08.

Repaired water leak in eight inch line at filter plant - 12-24-08.

Attended staff CIP review meeting - 1-08-09.

Attended several EQ Basin design meetings with OHM.

Attended several project review/update meeting with staff and OHM.

Attended meeting with Tom Traciak and staff about utility department funds - 1-21-09.

Power interruption at Huron River Drive lift station and Filter plant - monitored generators - 2-10-09.

Attended staff update meetings after all council meeting.

Completed and mailed 2009 report to Washtenaw County for Pollution Prevention - (toxic materials on site) - 2-18-09.

Completed and mailed Miss Dig information sheet - (contact information) - 2-25-09.

Completed and mailed 2008 Water Supply Cross Connection Report to DEQ - 2-25-09.

# VILLAGE OF DEXTER

PUBLIC SERVICES DEPT.

8360 HURON ST.

DEXTER MI 48130

(734) 426-4572 FAX (734)426-5466

## FISCAL YEAR WATER METER/SERVICE CALL UPDATE.

For the period from July1, 2008 thru February 28, 2009.

New meters and read units installed	- 5
Water only meters installed	- 9
Read unit maintenance	- 27
Miss Digs	- 112
All other service calls	- 186

## OTHER ANNUAL/SEMI ANNUAL ISSUES HANDLED

- Semi-Annual Fire Hydrant Flushing - Will be completed in April.
- Semi-Annual Sewer Main Flushing - Completed November 28, 2008.
- Semi-Annual Sludge Hauling - Completed November 12, 2008.
- DEQ Required Sampling - Sampling is ongoing as required.

## CIP UPDATE

### 1 - NEW WELL SEARCH

Property agreement has been reached. Design is underway. Additional sampling has been completed. We will keep you posted with further updates.

### 2 - SIDEWALK REPLACEMENT

As spring arrives, we will be looking at continuing with replacement based on the CIP.

### 3 - DEXTER ANN ARBOR RD.

M-DOT completed a preliminary walkthrough of the project, with a final to be scheduled for this spring. The sign crew will be in to repair signs when the weather breaks.

### 4 - JEFFORDS ALLEY PROJECT

Phase II will be starting soon, with storm work to be completed first. We will keep you posted.

### 5 - CENTRAL STREET

Survey work is almost complete. We will keep you informed as this project moves along.

## STREETS UPDATE

THE FOLLOWING IS AN UPDATE OF WHAT HAS BEEN GOING ON WITH THE STREETS DEPARTMENT DURING THE PERIOD OF NOVEMBER 1, 2008 AND FEBRUARY 28, 2009.

---

Ongoing issues that are dealt with on a regular basis.

DDA Issues	- Trash - Smoke Pots - Decorative Lighting - Dumpster Issues
Storm Cleanup	- Chipping and general storm cleanup.
Weekly Chipping	- Scheduled for every Wednesday - (as needed).
Cutting Grass	- Parks - Industrial Park - Other Village owned property.
Snow Removal	- Parking lots - Brick Pavers - Downtown Sidewalks

---

Other projects and issues dealt with this period are as follows.

Lowered Flags per Governor Granholm Executive order for fallen Michigan serviceman.

Replaced light bulbs in decorative lighting.

Replaced light bulbs in pedestrian walkway lights.

Replaced light bulbs in traffic signals.

Worked on leaf pickup - we will be picking up leaves as soon as weather permits.

Installed Holiday lighting - began on November 13, 2008.

Removed Holiday lights.

Assisted with street closure for Holiday tree lighting - 12-05-08.

Assisted with street closure for Holiday light parade and race. - 12-13-08.

Installed banner for Holiday festivities - removed after.

Installed banner for Town Hall Meeting - removed after.

Installed banner for Encore Theater Group - removed after.

Installed banner for Dexter Little League - removed after.

Installed banner for Town Hall Meeting - removed after.

Installed banner for K of C Fish Fry - will remove after.

Assisted with water main repair at filter plant - 12-24-08.

Heavy Snow - 8 inches - 12-19-08.

Heavy Snow - 12 inches - 1-10-09.

More Snow issues - 2-21-09.

As of February 15, 2009 we had received 64.6 inches of snow - Normal is around 55 inches. We have again this year been adding sand to our salt, to assist with snow removal. Salt prices have risen, (like everything else), but we will be fine. We are looking into other ways of purchasing salt, through the state of Michigan.

Filling pot holes.



AGENDA 3-9-09  
ITEM I-5

Manager Report  
March 9, 2009  
Page 1 of 2

## VILLAGE OF DEXTER

[ddettling@villageofdexter.org](mailto:ddettling@villageofdexter.org)

8140 Main Street Dexter, MI 48130-1092

Phone (734)426-8303 ext 11 Fax (734)426-5614

### MEMO

**To: President Keough and Council Members**  
**From: Donna Dettling, Village Manager**  
**Courtney Nicholls, Assistant Village Manager**  
**Date: March 9, 2009**  
**Re: Village Manager Report**

1. Meeting Review:
  - February 23<sup>rd</sup>- Work Session Water & Sewer Fund Analysis
  - February 26<sup>th</sup> – Sheriff's Office and School Administration re: Community Engagement Officer (Liaison Officer) Job Posting
  - February 26<sup>th</sup> – Townhall Meeting, Emergency Services
2. Upcoming Meeting Review:
  - March 23<sup>rd</sup> – Council Meeting
  - March 28<sup>th</sup> – Library Dedication
3. Work Session: The two dates currently on the table for our goal setting/pre-budget workshop are March 30 which is a 5<sup>th</sup> Monday or Saturday March 28 before and/or after the library dedication.
4. 8050 Main: We have been working with Denise Livingston who is interested in opening a food service establishment at the former Cookie Momster. Ms. Livingston has moved forward with plans and estimates for interior renovations to meet the code requirements. The requirements for a kitchen differ greatly from that of a bakery. The decision will be made soon as to whether the required renovations are too extensive. If this is the case we will be contacting the other parties who have expressed an interest in the building.
5. SRF Funding: On Wednesday, February 4 we received a phone call from Karen Totzke, our SRF Project Manager, with the exciting news that the Village has an opportunity to benefit from stimulus funds that could result in forgiveness of a portion of our SRF loan principle. To qualify for this funding we are required to follow some specific guidelines in our contracting relative to the Davis / Bacon Act (prevailing wage requirements) and buying American. These items have been forwarded to OHM for inclusion in any contract documents relating to SRF expenditures. Rhett does not believe the additional requirements would add substantial additional expense to the project.
6. Movie Filming: Filming for the movie "Betty Anne Waters" took place in the Village on Tuesday, March 3. The process seemed to go smoothly; no complaints were received at the Village Office. Sheriff's deputies were present throughout the filming as part of a special event contract paid for by the production company.

7. SEMCOG: The Southeast Michigan Council of Governments will be holding a Member Outreach Workshop in Washtenaw County on April 1 from 4:30 to 6:00 at the Marriott in Ypsilanti. Anyone who is interested should RSVP to Raymonia Dale at [dale@semcog.org](mailto:dale@semcog.org) or 313-324-3309. A complimentary meal will be provided.

AGENDA 3-9-09

ITEM I-6

## Village President Report

Hello Residents and Council Members,

Here is my written update of my activities:

### Activities since February 23, 2009 Village Council meeting:

February 26, 2009 - As Council knows, the Town Hall Meeting regarding Public Safety was well attended by representatives of our first responders (the Sheriff's office, Fire Chief, Fire Inspector and Huron Valley Ambulance), our County Commissioner as well as many residents. I am working with Courtney Nicholls, our assistant Village Manager, to get thank you letters written to all the citizens and officials who attended. (Copy of the letter sent to the officials is attached).

February 27, 2009 - Attended a discussion with our engineering consultants, Donna Dettling (Village Manager) and the Fire Inspector regarding safety and access along Broad Street between the Bakery and Forest.

March 2, 2009 - Attended the Village Planning Commission meeting which focused primarily on the Capital Improvement Plan worksheets.

### Future activities:

March 9, 2009 - Village Council Meeting and Workshop with Washtenaw County

March 12, 2009 - I will be out of town and unable to attend the Downtown Development Authority meeting planned for this evening.

March 23, 2009 - Village Council Meeting and Workshop

I will provide additional details on anything else that comes up and be happy to answer your questions before or at the meeting.

Please feel free to call me at home or send me an email anytime.

Shawn Keough

Village President

(734) 426-5486 (home number)

[skeough@villageofdexter.org](mailto:skeough@villageofdexter.org)



## VILLAGE OF DEXTER

8140 Main Street • Dexter, Michigan 48130-1092 • (734) 426-8303 • Fax (734) 426-5614

### Village Council

Shawn Keough  
*President*

Jim Carson  
*Councilperson*

Paul Cousins  
*Councilperson*

Donna Fisher  
*Councilperson*

Joe Semifero  
*Councilperson*

James Smith  
*Councilperson*

Ray Tell  
*Councilperson*

### Administration

Donna Dettling  
*Manager*

Carol Jones  
*Clerk*

Marie Sherry, CPFA  
*Treasurer/Finance Director*

Courtney Nicholls  
*Assistant Village Manager*

Ed Lobdell  
*Public Services Superintendent*

Allison Bishop, AICP  
*Community Development Manager*

THE VILLAGE OF  
DEXTER IS AN EQUAL  
OPPORTUNITY  
PROVIDER AND  
EMPLOYER

www.  
villageofdexter.org

March 3, 2009

Sheriff Jerry Clayton  
Washtenaw County Sheriff's Office  
2201 Hogback Rd  
Ann Arbor, Michigan 48105

Dear Sheriff Clayton,

On behalf of the entire Village Council, I would like to personally thank you for your participation at the Village's Town Hall meeting on February 26<sup>th</sup>. It was great that so many officials were able to attend to inform our residents and address their questions. All of the feedback we received was very positive. Several of the comment cards complimented the professionalism of the different organizations, including one that read, "I'm glad I'm living in Washtenaw County - very efficient and well trained responders in every area."

Again, I thank you for your participation in our meeting. If we can be of any assistance to you, please let us know.

Sincerely,

Shawn W. Keough  
Village President

<b>Name</b>	<b>Organization</b>
Sheriff Jerry Clayton	Washtenaw County Sheriff's Office
Commander Dieter Heren	Washtenaw County Sheriff's Office
Derrick Jackson	Washtenaw County Sheriff's Office
Sergeant Beth Gieske	Washtenaw County Sheriff's Office
Lieutenant Troy Bovier	Washtenaw County Sheriff's Office
Deputy Lori Butler	Washtenaw County Sheriff's Office
Kecia Williams	Washtenaw County - Central Dispatch
Commissioner Mark Ouimet	Washtenaw County Commission
Chief Loren Yates	Dexter Area Fire Department
Captain Don Dettling	Dexter Area Fire Department
Firefighter Mike Grissom	Dexter Area Fire Department
Roger Simpson	Huron Valley Ambulance
Todd Rice	Huron Valley Ambulance



AGENDA 3-9-09

ITEM J-1

**SUMMARY OF BILLS AND PAYROLL** **9-Mar-09**

Payroll Check Register	02/25/09	35,539.17	Bi-weekly payroll processing
Account Payable Check Register	03/09/09	\$297,903.86	
<b>\$333,443.03</b>			<b>TOTAL BILLS &amp; PAYROLL EXPENDED ALL FUNDS</b>

Summary Items from Bills & Payroll	Amount	Comments
------------------------------------	--------	----------

**ALL PAYABLES ARE WITHIN ACCEPTABLE BUDGET LIMITS  
DETAIL VENDOR LIST AND ACCOUNT SUMMARY PROVIDED**

*"This is the summary report that will be provided with each packet. Approval of the total bills and payroll expended, all funds will be necessary."*

VENDOR APPROVAL SUMMARY REPORT

Date: 03/04/2009

Time: 8:47am

Page: 1

Village of Dexter

Vendor Name	Vendor Number	Description	Check Amount	Hand Check Amount
ABSOLUTE COMPUTER SERVICES	ABSOLUTE C	5FT NETWORK CABLE	139.00	0.00
ALEXANDER CHEMICAL CORPORATION	ALEXANDER	CREDIT DEPOSIT FEE	1,788.00	0.00
ANN ARBOR CONVENTION & VISITOR	A2 CONVENT	VILLAGE COUNCIL 2009 ANNUAL	40.00	0.00
ANN ARBOR TECHNICAL SERVICES	A2 TECHNIC	JAN 2009	100.00	0.00
ARBOR SPRINGS WATER CO.INC	ARBOR SPRI	1 5 GAL WATER	17.25	0.00
ASSOCIATED PLUMBING & SEWER	ASSOCIATED	8211 BRIDGEWAY, DEXTER	4,482.78	0.00
AT&T	AT&T	734 426-4572 813 0	1,188.26	0.00
BELL EQUIPMENT COMPANY	BELL EQUIP	FUEL CHECK VALVE	71.39	0.00
BOULLION SALES	BOULLION	WHEEL AND TIRE ASSY	86.47	0.00
BRIDGEWATER TIRE COMPANY, INC.	BRIDGE TIR	TUBE AND REPAIR	24.77	0.00
CARLISLE-WORTMAN ASSOCIATES	CARL-WORT	SGRAT PROJECT	817.50	0.00
CAROL A. BREUNINGER	CAROL BREU	COMPOSTING AGREEMENT 2ND PYMT	2,500.00	0.00
CHAMPION WATER TREATMENT	CHAMPION W	1 BOTTLE WATER-WWTP 2-26-09	12.75	0.00
CINTAS CORPORATION	CINTAS	WWTP	690.28	0.00
COMCAST	COMCAST	2/26-3/25 VILLAGE HALL	190.00	0.00
CORRIGAN OIL COMPANY	CORRIGAN O	ETHANOL GAS	838.28	0.00
CULLIGAN WATER CONDITIONING	CULLIGAN	3/1-8/31 RENTAL PE	197.94	0.00
DAVIS M. SOMERS COMPANY	DAVIS M. S	ALPINE ALLEY DDA-LAND APPRAISA	750.00	0.00
DEXTER AREA FIRE DEPARTMENT	DAFD	QUARTERLY PAYMENT	75,939.00	0.00
DEXTER CARDS & GIFTS SHOP	DEX CARDS	FEB INVOICE	30.85	0.00
DEXTER MILL	DEX MILL	SCAMP LITTER	108.50	0.00
DEXTER SENIOR CITIZENS CENTER	DEX SENIOR	MARCH 2009 RENT	200.00	0.00
DISPLAY SALES	DISPLAY	5X8 US NYLON FLAG	231.00	0.00
DIUBLE EQUIPMENT INCORPORATED	DIUBLE EQU	FILTERS	63.72	0.00
DOETSCH INDUSTRIAL SERVICES IN	DOETSCH	CLEAN TELEVISE 7-2-08	2,950.00	0.00
DONNA DETTLING	DONNA D	EXPENSE REPORT	15.00	0.00
DTE ENERGY	DET EDISON	JANUARY 09 BILLS	23,959.45	0.00
DTE ENERGY-STREET LIGHTING	DTE ENERGY	STREETLIGHT	23.90	0.00
ENVIRONMENTAL RESOURCE ASSOC	ENVIR RESO	COLIFORM MICROBE	254.77	0.00
GOVERNMENT FINANCE OFFICERS	GFOA	SGR GAAFR REV 2/1/09-01/31/10	50.00	0.00
GRISSOM JANITORIAL	GRISSOM	FEBRUARY 2009	320.00	0.00
HERITAGE NEWSPAPERS	HERITAGE N	COUNCIL MTG & PUBLIC HEARINGS	207.00	0.00
JAMES SMITH	JAMES SMIT	EXPENSE REPORT	213.93	0.00
JONES LANG LASALLE AMERICAS, I	JONES LANG	MARCH RENT	750.00	0.00
LESSORS WELDING SUPPLY	LESSORS	CYLINDER RENTAL	32.30	0.00
EDWARD A. LOBDELL	LOBDELL/ED	EXPENSE REPORT	33.00	0.00
MCI	MCI	INVOICE DATE 2/19/09	14.65	0.00
MICHIGAN ASSOC OF PLANNING	MICHIGAN A	2009 SPRING INSTITUTE 3/24/09	115.00	0.00
MUNICIPAL EMPLOYEES RETIREMENT	MERS	OPEB FUNDING	150,000.00	0.00
NATIONAL FIBER CONSTRUCTION CO	NATIONAL F	8211 BRIDGEWAY-BORE	1,000.00	0.00
NORTH CENTRAL LABORATORIES	NCL	10LB BOX DETERGENT	32.54	0.00
POSTMASTER	US POSTAL	FIRST-CLASS PRESORT PERMIT 100	180.00	0.00
RADTKE TRUCKING, LLC	ROY R	90 YRD 2NS SAND	1,260.00	0.00
RICOH AMERICAS CORPORATION	RICOH AMER	PERIODIC PAYMENT	1,032.92	0.00
RITE-TECH ENTERPRISES INC.	RITE TECH	REPAIRS	531.73	0.00
SHULTS EQUIPMENT, INC.	SHULTS EQU	REISSUE CHECK 24344 & 24368	707.67	0.00
SOUTHEAST MICHIGAN COUNCIL	SEMCOG	2009 MEMBERSHIP DUES	765.00	0.00
TRI COUNTY INTERNATIONAL TRUCK	TRI COUNTY	PARTS	88.76	0.00
UNIQUE PAVING MATERIALS	UN	C/M BULK	792.54	0.00
UNISTRUT DETROIT SERVICE CO	UNISTRUT	SIGN BASE	611.00	0.00
US BANK CORPORATE TRUST	US	DTD 4-1-98 BI # 3323	10,947.50	0.00
WASHTENAW COUNTY DEVELOPMENT	WASHTENAW	3620 CENTRAL-2009 REPORT FEE	108.00	0.00
WASTE MANAGEMENT	WASTE MANA	BALANCE DUE ON INV. 3619610	399.46	0.00

160 150,000.00 check re-issued

Grand Total: 287,903.86 0.00

297,903.86

INVOICE APPROVAL LIST BY FUND

Date: 03/04/2009  
 Time: 8:50am  
 Page: 1

Village of Dexter

Fund Department Account	GL Number Abbrev	Vendor Name Invoice Description	Check Number	Invoice Number	Due Date	Amount
<b>Fund: General Fund</b>						
<b>Dept: Village Council</b>						
101-101.000-727.000	Office Sup	DEXTER CARDS & GIFTS SHOP FEB INVOICE	0	1331	03/02/2009	19.95
101-101.000-861.000	Travel & M	DONNA DETTLING EXPENSE REPORT	0		03/02/2009	15.00
101-101.000-943.000	Council Ch	DEXTER SENIOR CITIZENS CENTER MARCH 2009 RENT	0		03/02/2009	150.00
101-101.000-958.000	Membership	SOUTHEAST MICHIGAN COUNCIL 2009 MEMBERSHIP DUES	0		03/03/2009	765.00
101-101.000-960.000	Education	ANN ARBOR CONVENTION & VISITOR VILLAGE COUNCIL 2009 ANNUAL	0	7344	03/02/2009	40.00
Total Village Council						989.95
<b>Dept: Village Manager</b>						
101-172.000-861.000	Travel & M	JAMES SMITH EXPENSE REPORT	0		03/03/2009	213.93
Total Village Manager						213.93
<b>Dept: Village Clerk</b>						
101-215.000-901.000	Printing &	HERITAGE NEWSPAPERS COUNCIL MTG & PUBLIC HEARINGS	0	1960105	03/03/2009	135.00
Total Village Clerk						135.00
<b>Dept: Village Treasurer</b>						
101-253.000-958.000	Membership	GOVERNMENT FINANCE OFFICERS SGR GAAFR REV 2/1/09-01/31/10	0		03/03/2009	50.00
Total Village Treasurer						50.00
<b>Dept: Buildings &amp; Grounds</b>						
101-265.000-727.000	Office Sup	ARBOR SPRINGS WATER CO. INC 2 5 GAL WATER	0	1097968	03/02/2009	11.50
101-265.000-727.000	Office Sup	ARBOR SPRINGS WATER CO. INC 1 5 GAL WATER	0	1101201	03/02/2009	5.75
101-265.000-727.000	Office Sup	DEXTER CARDS & GIFTS SHOP FEB INVOICE	0	1331	03/02/2009	10.90
101-265.000-728.000	Postage	POSTMASTER FIRST-CLASS PRESORT PERMIT 100	0		03/03/2009	180.00
101-265.000-920.000	Utilities	COMCAST 2/26-3/25 VILLAGE HALL	0		03/02/2009	190.00
101-265.000-920.000	Utilities	DTE ENERGY JANUARY 09 BILLS	0		03/03/2009	1,169.81
101-265.000-935.000	Bldg Maint	CINTAS CORPORATION VILLAGE OFFICES	0	300245465	03/02/2009	31.70
101-265.000-935.000	Bldg Maint	CINTAS CORPORATION VILLAGE OFFICES	0	300256080	03/02/2009	31.70
101-265.000-935.001	Office Cle	GRISSOM JANITORIAL FEBRUARY 2009	0		03/03/2009	320.00
101-265.000-936.000	Equip Serv	RICOH AMERICAS CORPORATION PERIODIC PAYMENT	0	9641246	03/03/2009	1,032.92
101-265.000-943.001	Office Spa	JONES LANG LASALLE AMERICAS, I MARCH RENT	0		03/03/2009	750.00
Total Buildings & Grounds						3,734.28
<b>Dept: Law Enforcement</b>						
101-301.000-920.000	Utilities	DTE ENERGY JANUARY 09 BILLS	0		03/03/2009	1,183.47
Total Law Enforcement						1,183.47
<b>Dept: Fire Department</b>						
101-336.000-803.000	Contracted	DEXTER AREA FIRE DEPARTMENT QUARTERLY PAYMENT	0		03/03/2009	75,939.00
101-336.000-920.000	Utilities	DTE ENERGY JANUARY 09 BILLS	0		03/03/2009	1,091.09
Total Fire Department						77,030.09
<b>Dept: Planning Department</b>						
101-400.000-802.000	Profession	CARLISLE-WORTMAN ASSOCIATES SGRAT PROJECT	0	292-112	03/02/2009	240.00
101-400.000-901.000	Printing &	HERITAGE NEWSPAPERS COUNCIL MTG & PUBLIC HEARINGS	0	1960105	03/03/2009	72.00
101-400.000-960.000	Education	MICHIGAN ASSOC OF PLANNING 2009 SPRING INSTITUTE 3/24/09	0		03/03/2009	115.00

INVOICE APPROVAL LIST BY FUND

Date: 03/04/2009  
 Time: 8:50am  
 Page: 2

Village of Dexter

Fund	Department	Account	GL Number	Vendor Name	Check Number	Invoice Number	Due Date	Amount
			Abbrev	Invoice Description				
Fund: General Fund								
Dept: Planning Department								
Total Planning Department								427.00
Dept: Department of Public Works								
101-441.000-740.000	Operating		ABSOLUTE COMPUTER SERVICES	0		03/02/2009		4.00
			5FT NETWORK CABLE		60534			
101-441.000-740.000	Operating		LESSORS WELDING SUPPLY	0		03/03/2009		14.30
			LESSORS WELDING SUPPLY		475763			
101-441.000-740.000	Operating		CYLINDER RENTAL	0		03/03/2009		18.00
			CINTAS CORPORATION		178040			
101-441.000-745.000	Uniform Al		DPW	0		03/02/2009		71.15
			CINTAS CORPORATION		300242608			
101-441.000-745.000	Uniform Al		DPW	0		03/02/2009		71.15
			CINTAS CORPORATION		300247899			
101-441.000-745.000	Uniform Al		DPW	0		03/02/2009		71.15
			CINTAS CORPORATION		300253180			
101-441.000-745.000	Uniform Al		DPW	0		03/02/2009		71.15
			CINTAS CORPORATION		300258460			
101-441.000-751.000	Gasoline &		CORRIGAN OIL COMPANY	0		03/02/2009		398.78
			DIESEL		5294492			
101-441.000-802.000	Profession		ABSOLUTE COMPUTER SERVICES	0		03/03/2009		135.00
			SETUP PRINTER DPW/REPLACE CABL		60538			
101-441.000-920.000	Utilities		DTE ENERGY	0		03/03/2009		2,543.29
			JANUARY 09 BILLS					
Total Department of Public Works								3,397.97
Dept: Downtown Public Works								
101-442.000-802.000	Profession		DEXTER SENIOR CITIZENS CENTER	0		03/02/2009		50.00
			MARCH 2009 RENT					
101-442.000-802.000	Profession		DAVIS M. SOMERS COMPANY	0		03/03/2009		750.00
			ALPINE ALLEY DDA-LAND APPRAISA		4433			
101-442.000-920.000	Utilities		DTE ENERGY	0		03/03/2009		754.18
			JANUARY 09 BILLS					
Total Downtown Public Works								1,554.18
Dept: Storm Water								
101-445.000-802.000	Profession		CARLISLE-WORTMAN ASSOCIATES	0		03/02/2009		390.00
			RETAINER SERVICES-JANUARY		292-110			
101-445.000-802.000	Profession		CARLISLE-WORTMAN ASSOCIATES	0		03/02/2009		187.50
			STORMWATER PROJECT PHASE II		292-111			
Total Storm Water								577.50
Dept: Municipal Street Lights								
101-448.000-920.003	St Lights		DTE ENERGY-STREET LIGHTING	0		03/02/2009		23.90
			STREETLIGHT					
Total Municipal Street Lights								23.90
Dept: Solid Waste								
101-528.000-805.000	Solid Waste		WASTE MANAGEMENT	0		03/03/2009		399.46
			BALANCE DUE ON INV. 3619610					
101-528.000-806.000	Contracted		CAROL A. BREUNINGER	0		03/02/2009		2,500.00
			COMPOSTING AGREEMENT 2ND PYWT					
Total Solid Waste								2,899.46
Dept: Parks & Recreation								
101-751.000-740.000	Operating		DISPLAY SALES	0		03/02/2009		231.00
			5X8 US NYLON FLAG		66016			
Total Parks & Recreation								231.00
Dept: Insurance & Bonds								
101-851.000-723.001	Other Post		MUNICIPAL EMPLOYEES RETIREMENT	0		03/04/2009		160 150,000.00
			OPEB FUNDING					
Total Insurance & Bonds								160 150,000.00
Fund Total								252 242,447.73
Fund: Major Streets Fund								
Dept: Routine Maintenance								
202-463.000-740.000	Operating		UNIQUE PAVING MATERIALS	0		03/03/2009		131.58
			C/M BULK		192597			

INVOICE APPROVAL LIST BY FUND

Date: 03/04/2009  
 Time: 8:50am  
 Page: 3

Village of Dexter

Fund Department Account	GL Number Abbrev	Vendor Name Invoice Description	Check Number	Invoice Number	Due Date	Amount
<b>Fund: Major Streets Fund</b>						
Dept: Routine Maintenance 202-463.000-740.000	Operating	UNIQUE PAVING MATERIALS C/M BULK	0	192596	03/03/2009	264.69
					<b>Total Routine Maintenance</b>	<b>396.27</b>
Dept: Traffic Services 202-474.000-740.000	Operating	UNISTRUT DETROIT SERVICE CO SIGN BASE	0	2893	03/03/2009	305.50
					<b>Total Traffic Services</b>	<b>305.50</b>
Dept: Winter Maintenance 202-478.000-740.000	Operating	RADTKE TRUCKING, LLC 90 YRD 2NS SAND	0		03/03/2009	630.00
					<b>Total Winter Maintenance</b>	<b>630.00</b>
					<b>Fund Total</b>	<b>1,331.77</b>
<b>Fund: Local Streets Fund</b>						
Dept: Routine Maintenance 203-463.000-740.000	Operating	UNIQUE PAVING MATERIALS C/M BULK	0	192597	03/03/2009	131.58
203-463.000-740.000	Operating	UNIQUE PAVING MATERIALS C/M BULK	0	192596	03/03/2009	264.69
					<b>Total Routine Maintenance</b>	<b>396.27</b>
Dept: Traffic Services 203-474.000-740.000	Operating	UNISTRUT DETROIT SERVICE CO SIGN BASE	0	2893	03/03/2009	305.50
					<b>Total Traffic Services</b>	<b>305.50</b>
Dept: Winter Maintenance 203-478.000-740.000	Operating	RADTKE TRUCKING, LLC 90 YRD 2NS SAND	0		03/03/2009	630.00
					<b>Total Winter Maintenance</b>	<b>630.00</b>
					<b>Fund Total</b>	<b>1,331.77</b>
<b>Fund: Streetscape Debt Service Fund</b>						
Dept: Streetscape 303-570.000-990.002	Debt '98 S	US BANK CORPORATE TRUST dtd 4-1-98 BI#3322	0		03/03/2009	5,970.00
					<b>Total Streetscape</b>	<b>5,970.00</b>
					<b>Fund Total</b>	<b>5,970.00</b>
<b>Fund: Equipment Replacement Fund</b>						
Dept: Department of Public Works 402-441.000-939.000	Vehicle Ma	BOULLION SALES TUBE	0	170166	03/02/2009	14.45
402-441.000-939.000	Vehicle Ma	BOULLION SALES WHEEL AND TIRE ASSY	0	170185	03/02/2009	72.02
402-441.000-939.000	Vehicle Ma	BRIDGEWATER TIRE COMPANY, INC. TUBE AND REPAIR	0	49575	03/02/2009	24.77
402-441.000-939.000	Vehicle Ma	DIUBLE EQUIPMENT INCORPORATED FILTERS	0	61278	03/02/2009	63.72
402-441.000-939.000	Vehicle Ma	BELL EQUIPMENT COMPANY FUEL CHECK VALVE	0	59051	03/03/2009	71.39
402-441.000-939.000	Vehicle Ma	RITE-TECH ENTERPRISES INC. REPAIRS	0	5464	03/03/2009	531.73
402-441.000-939.000	Vehicle Ma	TRI COUNTY INTERNATIONAL TRUCK PARTS	0	290270008	03/03/2009	62.10
402-441.000-939.000	Vehicle Ma	TRI COUNTY INTERNATIONAL TRUCK PARTS	0	290420017	03/03/2009	26.66
402-441.000-939.000	Vehicle Ma	SHULTS EQUIPMENT, INC. REISSUE CHECK 24344 & 24368	0		03/03/2009	707.67
					<b>Total Department of Public Works</b>	<b>1,574.51</b>

INVOICE APPROVAL LIST BY FUND

Date: 03/04/2009  
 Time: 8:50am  
 Page: 4

Village of Dexter

Fund Department Account	GL Number Abbrev	Vendor Name Invoice Description	Check Number	Invoice Number	Due Date	Amount	
Fund: Equipment Replacement Fund						Fund Total	1,574.51
Fund: Sewer Enterprise Fund							
Dept: Sewer Utilities Department							
590-548.000-740.000	Operating	DEXTER MILL SCAMP LITTER	0	5255	03/02/2009	13.50	
590-548.000-742.000	Chem Plant	ALEXANDER CHEMICAL CORPORATION DEC. INV. PYMTS & CREDIT BAL.	0	40852 & 40853	03/02/2009	463.00	
590-548.000-742.000	Chem Plant	ALEXANDER CHEMICAL CORPORATION CHEMICALS	0	410948	03/02/2009	465.00	
590-548.000-742.000	Chem Plant	ALEXANDER CHEMICAL CORPORATION CHEMICALS 2-24-09	0	411323	03/02/2009	995.00	
590-548.000-742.000	Chem Plant	ALEXANDER CHEMICAL CORPORATION CREDIT DEPOSIT FEE	0	411324	03/02/2009	-90.00	
590-548.000-742.000	Chem Plant	ALEXANDER CHEMICAL CORPORATION DEPOSIT FEE REFUND	0	410949	03/03/2009	-45.00	
590-548.000-743.000	Chem Lab	CULLIGAN WATER CONDITIONING 3/1-8/31 RENTAL PE	0	2660777	03/02/2009	197.94	
590-548.000-743.000	Chem Lab	ENVIRONMENTAL RESOURCE ASSOC COLIFORM MICROBE	0	531249	03/03/2009	254.77	
590-548.000-743.000	Chem Lab	NORTH CENTRAL LABORATORIES 10LB BOX DETERGENT	0	248280	03/03/2009	32.54	
590-548.000-745.000	Uniform Al	CINTAS CORPORATION WWTP	0	300242609	03/02/2009	45.00	
590-548.000-745.000	Uniform Al	CINTAS CORPORATION WWTP	0	300247900	03/02/2009	45.00	
590-548.000-745.000	Uniform Al	CINTAS CORPORATION WWTP	0	300253181	03/02/2009	45.00	
590-548.000-745.000	Uniform Al	CINTAS CORPORATION WWTP	0	300258461	03/02/2009	45.00	
590-548.000-745.000	Uniform Al	EDWARD A. LOBDELL EXPENSE REPORT	0		03/02/2009	33.00	
590-548.000-751.000	Gasoline &	CORRIGAN OIL COMPANY ETHANOL	0	5294493	03/02/2009	439.50	
590-548.000-751.000	Gasoline &	DEXTER MILL SOFT SHELL JKT	0	3861	03/02/2009	95.00	
590-548.000-824.000	Testing &	ANN ARBOR TECHNICAL SERVICES JAN 2009	0	D053-000.09	03/02/2009	100.00	
590-548.000-920.000	Utilities	DTE ENERGY JANUARY 09 BILLS	0		03/03/2009	6,474.34	
590-548.000-920.001	Telephones	AT&T 734 426-4572 813 0	0		03/02/2009	784.26	
590-548.000-920.001	Telephones	MCI INVOICE DATE 2/19/09	0		03/03/2009	14.65	
Total Sewer Utilities Department						10,407.50	
Dept: Capital Improvements CIP							
590-901.000-974.000	CIP Capita	DOETSCH INDUSTRIAL SERVICES IN CLEAN TELEWISE 7-2-08	0	62028	03/02/2009	2,950.00	
Total Capital Improvements CIP						2,950.00	
Fund Total						13,357.50	
Fund: Water Enterprise Fund							
Dept: Water Utilities Department							
591-556.000-740.000	Operating	CHAMPION WATER TREATMENT 2 BOTTLED WATER	0		03/02/2009	8.50	
591-556.000-740.000	Operating	CHAMPION WATER TREATMENT 1 BOTTLE WATER-WWTP 2-26-09	0	42329	03/02/2009	4.25	
591-556.000-745.000	Uniform Al	CINTAS CORPORATION WWTP	0	300242609	03/02/2009	40.57	
591-556.000-745.000	Uniform Al	CINTAS CORPORATION WWTP	0	300247900	03/02/2009	40.57	
591-556.000-745.000	Uniform Al	CINTAS CORPORATION WWTP	0	300253181	03/02/2009	40.57	
591-556.000-745.000	Uniform Al	CINTAS CORPORATION WWTP	0	300258461	03/02/2009	40.57	
591-556.000-802.000	Profession	ASSOCIATED PLUMBING & SEWER 8211 BRIDGEWAY, DEXTER	0	86866	03/02/2009	4,482.78	

INVOICE APPROVAL LIST BY FUND

Date: 03/04/2009  
 Time: 8:50am  
 Page: 5

Village of Dexter

Fund Department Account	GL Number Abbrev	Vendor Name Invoice Description	Check Number	Invoice Number	Due Date	Amount
Fund: Water Enterprise Fund						
Dept: Water Utilities Department						
591-556.000-802.000	Profession	NATIONAL FIBER CONSTRUCTION CO 8211 BRIDGEWAY-BORE	0	1273	03/03/2009	1,000.00
591-556.000-920.000	Utilities	DTE ENERGY JANUARY 09 BILLS	0		03/03/2009	10,743.27
591-556.000-920.001	Telephones	AT&T 734 426-4572 813 0	0		03/02/2009	404.00
591-556.000-958.000	Membership	WASHTENAW COUNTY DEVELOPMENT 3400 RYAN DR-2009 REPORT FEE	0	3941-1609	03/03/2009	54.00
591-556.000-958.000	Membership	WASHTENAW COUNTY DEVELOPMENT 3620 CENTRAL-2009 REPORT FEE	0	3940-1609	03/03/2009	54.00
Total Water Utilities Department						16,913.08
Dept: Long-Term Debt						
591-850.000-995.004	1998 Water	US BANK CORPORATE TRUST DTD 4-1-98 BI # 3323	0		03/03/2009	4,977.50
Total Long-Term Debt						4,977.50
Fund Total						21,890.58
Grand Total						287,903.86





AGENDA 3-9-09  
ITEM J-2

## Knights of Columbus

FRANK J. BERTRAM  
Grand Knight  
483 Adrienne Lane  
Ann Arbor, Michigan 48103  
Phone: (734) 663-9385  
E-mail: [fbertram@aol.com](mailto:fbertram@aol.com)

DEXTER COUNCIL, No. 2959  
8265 Dexter-Chelsea Road  
Dexter, Michigan 48130  
Phone/Fax: (734) 426-5558  
E-mail: [dexterkofc@ameritech.net](mailto:dexterkofc@ameritech.net)

DAVID M. MILEY,  
Financial Secretary  
4710 Cameron Circle  
Dexter, Michigan 48130  
Phone: (734) 424-2717  
Fax: (734) 426-5302  
E-mail: [miley4710@comcast.net](mailto:miley4710@comcast.net)

March 2, 2009

Dear Council Members;

In past years the Village of Dexter has been kind enough to let members of the Knights of Columbus sell tootsie rolls on the sidewalks of the village to help raise funds in support of the mentally impaired. We have contributed at least 50% of all money raised to help support the *special education programs in the Dexter School District*. The remaining funds are donated to the *St. Louis Boys School in Chelsea*.

This year's *Tootsie Roll Drive* is slated for **April 3<sup>rd</sup>, 4<sup>th</sup>, and 5<sup>th</sup>**.

We hope you can see it in your hearts to grant us permission again, this year, to allow us to raise funds for a very worthy cause. Please call me, should you have any questions concerning this fundraiser. I may be contacted at (734) 474-3069

Sincerely,

Daniel Vencil, Chairman  
Dexter Knights of Columbus  
Council No. 2959



**Budget Amendment Form - Council Approval Required  
Fiscal Year 2008/2009**

Line #	Description	Original Budget	Amended Budget	Difference	Reason for Amendment
402-441.000-939.000	Vehicle Maintenance	\$ 20,000	\$ 31,000	\$ 11,000	Unexpected major vehicle repair
<i>Net change in budget</i>				\$ (11,000)	

Approved by Council on March 9, 2009

---

Carol J. Jones, Village of Dexter Clerk

AGENDA 3-9-09  
 ITEM 5-3  
AGENDA ITEM 5-3



**OPTION 1A (by SWK) Rehabilitation of 8140 Main**

**EXPENDITURES TOWARD a Public Safety/Facility/Village Hall Improvement**

Funding Source	Prior Yrs	FY09-10	FY10-11	FY11-12	FY12-13	FY13-14	Beyond FY14	TOTALS
GO Bond- \$1.7 in 2006	\$320,000							\$320,000
GO Bond- \$1.1 in 2010								\$0
Restricted Funds	\$206,000							\$206,000
DDA??		\$294,000						\$294,000
General Fund-Reserves	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
General Fund-Current FY		\$200,000						\$200,000
Grants	\$0							\$0
<b>TOTALS</b>	<b>\$526,000</b>	<b>\$494,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,020,000</b>

North Stair/Elevator Tower	\$360,000	4th Floor/Front Façade	\$793,000 (Estimated)
Public Toilets	\$60,000	North Façade Improv.	\$187,000
East Plaza	\$230,000		\$2,000,000
Lobby & Unfinished area under	\$370,000		
	<b>\$1,020,000</b>		

**Mill Creek Park Funding**

**EXPENDITURES TOWARD MILL CREEK PARK**

Funding Source	Prior Yrs	FY09-10	FY10-11	FY11-12	FY12-13	FY13-14	Beyond FY14	TOTALS
GO Bond- \$1.1 in 2010								\$0
Restricted Funds		\$33,000						\$33,000
Stimulus Non-Motorized??		\$0						\$0
WATS Non-Motorized??			\$500,000					\$500,000
DDA??								\$0
General Fund-Reserves		\$225,000	\$0	\$0	\$0	\$0	\$0	\$225,000
General Fund-Current FY			\$100,000					\$100,000
Grants-MNRTF/Other		\$500,000	\$400,000					\$900,000
<b>TOTALS</b>		<b>\$758,000</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,758,000</b>

<b>Park Elements to Construct in Initial Phase (2010)</b>		<b>Year 2 to Maximize STPU Funding from WATS</b>	
Rock Outcropping/Boulders	\$81,000	Year 2- Grading/Clearing	\$400,000
Concrete Walks/Boardwalks	\$273,000	Year 2- Restoration	\$100,000
Storm Water Features	\$49,595	Year 2- Pathways/Boardwalks	\$473,000
Earthwork/Grading	\$250,000	Year 2- Project Element	\$0
Restoration & Riparian Zones	\$115,000		
	<b>\$768,595</b>	Estimate	<b>\$973,000</b>

**Combined Impact on Future Budgets**

**RESERVE STATUS (over 15% Recommended Amount)**

	Prior Yrs	FY09-10	FY10-11	FY11-12	FY12-13	FY13-14	FY14-15	Beyond FY15
	\$400,000	\$175,000	\$0	\$0	\$0	\$0	\$0	\$0

**EXPENDITURES**

Funding Source	Prior Yrs	FY09-10	FY10-11	FY11-12	FY12-13	FY13-14	FY14-15	Beyond FY15
GO Bond-2010 Payment								\$0
General Fund-Current FY	\$0	\$200,000	\$100,000	\$0	\$0	\$0	\$0	
OPEB	\$160,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Proj. Exp Increase (Police, Fire, HC)	\$150,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
Last Gordon Hall Payment		(\$20,000)	(\$20,000)	(\$20,000)	(\$20,000)	(\$20,000)	(\$20,000)	(\$20,000)
Reduce Overall Tree Budget		(\$20,000)	(\$20,000)	(\$20,000)				
Reduce Sidewalk Funding to \$20K		(\$60,000)	(\$60,000)					
Reduced Budget Items (see below)		(\$95,800)	(\$95,800)	(\$95,800)	(\$95,800)	(\$95,800)	(\$95,800)	
<b>TOTALS</b>	<b>\$310,000</b>	<b>\$124,200</b>	<b>\$24,200</b>	<b>-\$15,800</b>	<b>\$4,200</b>	<b>\$4,200</b>	<b>\$4,200</b>	<b>\$100,000</b>

<b>Areas to Discuss Reducing the Budget</b>		<b>Areas Protected In this plan</b>	
Reduce Att. Fees from \$50K to \$40K	\$10,000	Senior Center Funding	\$9,000
Reduce VC Professional fees by	\$15,000	Wave Contributions	\$22,000
Reduce Park CIP from \$80K to \$20K	\$60,000		
No more taxes on Jeffords Prkg prop	\$2,800		
Reduce Office Equipment Expenses	\$8,000		
	<b>\$95,800</b>		

Council Goals (Not necessarily in order)

- 1 Upgrade our Village Offices (or our Public Safety facilities)
- 2 Begin Mill Creek Park Restoration
- 3 Do many things well, instead of putting all our eggs in one basket

Suggested Financial Goals

- 1 Operate within a balanced budget each year
- 2 Maintain our competitive tax structure
- 3 Do not take on unnecessary long term debt (i.e. minimize bonding) that we cannot afford
- 4 Spend within our means
- 5 Add to our reserves each fiscal year
- 6 Protect/minimize depleting our reserve fund balance of \$400,000 (thru 08/09 fiscal year) - Spend it wisely

**Description of Option 1A**

Option 1A attempts to meet all 3 Council Goals identified above to the extent possible without increasing our long term debt. A little over \$1,000,000 is identified for improvements to our facilities and approximately \$800,000 is proposed toward the Mill Creek Park restoration. Four funding sources totaling \$1,020,000 are identified toward Goal No. 1 - Upgrading our Village Facilities (including requesting \$294,000 from our DDA in addition to using our Building reserve account of \$206,000, our remaining bond proceeds of \$340,000 and the need to allocate \$200,000 from the 2009/2010 budget year) to the fullest extent at this time. This plan does not include any additional long term bond sale. The \$1,020,000 would be used to cover 4 primary elements that would upgrade the Village's existing facility at 8140 Main Street, but would not yield a new Village office location or improve the Village office functionally. The four elements proposed in Option 1A include (1) construction of a north stair/elevator tower, (2) Public Restrooms, (3) East Plaza to Alpine, and (4) New Lobby including an unfinished area under the Lobby for future DAFD buildout.

This would provide a finished look along Alpine, ADA access to Warrior Park and put the necessary access areas in place for future improvements at 8140 Main. The logic behind constructing these elements first is that typical construction builds from the ground up and each of these elements seems to be a logical initial step. The fourth floor for Village offices, the new facades on both the north and south face and the small extension of the fire station bays in the front would have to wait until additional funding was determined.

Option 1A also allows approximaetly \$800,000 to work toward Goal No. 2 - completion of a first phase of the Mill Creek Park restoration, including (1) grading and placement of large rocks that define the contour of the park as represented in the Master Concept Plan, (2) some riparian buffer zone improvements, (3) new sidewalks and pathways, and (4) simple restoration (mostly grass and natural areas). The cost estimates for this plan were taken from the line item cost estimates identified in the Master Plan completed by JJR. The funding sources for this project would include \$500K from a MNRTF grant, a \$250K match taken from our existing general fund reserves, and \$33K from our park reserve account. Please note that as of March 4, 2009, the \$273K in stimulus money that we thought we were getting to use for the sidewalks and pathways is no longer available due to some State Funding Adjustments.

The impact on our budget and our reserves is very high with Option 1A, especially in the first year. In addition to requiring DDA assistance of almost \$300K (which may not be available), VC will need to agree to reduce spending in the areas of tree trimming, sidewalk improvements, attorney fees, professional services, and other areas that have been a past focus in recent years, although the reductions appear to only be necessary for the next couple of years. Essentially, there would be very little discretionary spending over the next couple of years. Please note that our reserves would drop to \$175,000 as well, since we would be using \$225,000 as match for the park plan. This analysis includes an early projection (\$100,000) for the rising costs on our labor, insurance, healthcare, police, fire department and other costs which will likely rise each year. The analysis does not include the likely reduction in our revenue stream due to the economy and lowering of home values.

Overall, I do not see this as a viable option for us to pursue, even if we cut back on some areas and divert the majority of our discretionary funding to these two options. I believe we would be putting ourselves in a very unhealthy financial position.

## OPTION 1B (by SWK) Rehabilitation of 8140 Main

### EXPENDITURES TOWARD a Public Safety and Fourth Floor/Façade Improvements for new Village Offices

Funding Source	Prior Yrs	FY09-10	FY10-11	FY11-12	FY12-13	FY13-14	Beyond FY14	TOTALS
GO Bond- \$1.7 in 2006	\$320,000							\$320,000
GO Bond- \$1.1 in 2010		\$1,000,000						\$1,000,000
Restricted Funds	\$206,000							\$206,000
DDA??		\$294,000						\$294,000
General Fund-Reserves	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
General Fund-Current FY		\$200,000						\$200,000
Grants	\$0							\$0
<b>TOTALS</b>	<b>\$526,000</b>	<b>\$1,494,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,020,000</b>

North Stair/Elevator Tower	\$360,000	4th Floor/Front Façade	\$793,000 (Estimated)
Public Toilets	\$60,000	North Façade Improv.	\$187,000
East Plaza	\$230,000		\$2,000,000
Lobby & Unfinished area under	\$370,000		
	\$1,020,000		

## Mill Creek Park Funding

### EXPENDITURES TOWARD MILL CREEK PARK

Funding Source	Prior Yrs	FY09-10	FY10-11	FY11-12	FY12-13	FY13-14	Beyond FY14	TOTALS
GO Bond- \$1.1 in 2010								\$0
Restricted Funds		\$33,000						\$33,000
Stimulus Non-Motorized??		\$0						\$0
WATS Non-Motorized??			\$500,000					\$500,000
DDA??								\$0
General Fund-Reserves		\$225,000	\$0	\$0	\$0	\$0	\$0	\$225,000
General Fund-Current FY			\$100,000					\$100,000
Grants-MNRTF/Other		\$500,000	\$400,000					\$900,000
<b>TOTALS</b>		<b>\$758,000</b>	<b>\$1,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,758,000</b>

<u>Park Elements to Construct in Initial Phase (2010)</u>		<u>Year 2 to Maximize STPU Funding from WATS</u>	
Rock Outcropping/Boulders	\$81,000	Year 2- Grading/Clearing	\$400,000
Concrete Walks/Boardwalks	\$273,000	Year 2- Restoration	\$100,000
Storm Water Features	\$50,000	Year 2- Pathways/Boardwalks	\$473,000
Earthwork/Grading	\$250,000	Year 2- Project Element	\$0
Restoration & Riparian Zones	\$105,000		
	\$759,000	Estimate	\$973,000

## Combined Impact on Future Budgets & Reserves

### RESERVE STATUS (over 15% Recommended Amount)

Prior Yrs	FY09-10	FY10-11	FY11-12	FY12-13	FY13-14	FY14-15	Beyond FY15
\$400,000	\$175,000	\$0	\$0	\$0	\$0	\$0	\$0

### EXPENDITURES

Funding Source	Prior Yrs	FY09-10	FY10-11	FY11-12	FY12-13	FY13-14	FY14-15	Beyond FY15
GO Bond-2010 Payment		\$85,000	\$85,000	\$85,000	\$85,000	\$85,000	\$85,000	\$85,000
General Fund-Current FY	\$0	\$200,000	\$100,000	\$0	\$0	\$0	\$0	
OPEB	\$160,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Proj. Exp Increase (Police, Fire, HC)	\$150,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
Last Gordon Hall Payment		(\$20,000)	(\$20,000)	(\$20,000)	(\$20,000)	(\$20,000)	(\$20,000)	(\$20,000)
Reduce Overall Tree Budget		(\$20,000)	(\$20,000)	(\$20,000)	(\$20,000)	(\$20,000)	(\$20,000)	(\$20,000)
Reduce Sidewalk Funding to \$20K		(\$60,000)	(\$60,000)	(\$60,000)	(\$60,000)	(\$60,000)	(\$60,000)	(\$60,000)
Reduced Budget Items (see below)		(\$95,800)	(\$95,800)	(\$95,800)	(\$95,800)	(\$95,800)	(\$95,800)	
<b>TOTALS</b>		<b>\$209,200</b>	<b>\$109,200</b>	<b>\$9,200</b>	<b>\$9,200</b>	<b>\$9,200</b>	<b>\$9,200</b>	<b>\$105,000</b>

#### Areas to Discuss Reducing the Budget

Reduce Alt. Fees from \$50K to \$40K	\$10,000
Reduce VC Professional fees by	\$15,000
Reduce Park CIP from \$80K to \$20K	\$60,000
No more taxes on Jeffords Prkg prop	\$2,800
Reduce Office Equipment Expenses	\$8,000
	\$95,800

#### Areas Protected in this plan

Senior Center Funding	\$9,000
Wave Contributions	\$22,000

Council Goals (Not necessarily in order)

- 1 Upgrade our Village Offices (or our Public Safety facilities)
- 2 Begin Mill Creek Park Restoration
- 3 Do many things well, instead of putting all our eggs in one basket

Suggested Financial Goals

- 1 Operate within a balanced budget each year
- 2 Maintain our competitive tax structure
- 3 Do not take on unnecessary long term debt (i.e. minimize bonding) that we cannot afford
- 4 Spend within our means
- 5 Add to our reserves each fiscal year
- 6 Protect/minimize depleting our reserve fund balance of \$400,000 (thru 08/09 fiscal year) - Spend it wisely

Description of Option 1B

Option 1B attempts to also meet all 3 Council Goals identified above, however to the fullest extent possible by bonding for additional dollars in order to complete all the Village office improvements at 8140 Main Street. A little over \$2,000,000 has been identified by Wade at OHM for all the improvements to 8140 Main and approximately \$800,000 is estimated to get the first phase initiated of the Mill Creek Park restoration. Five funding sources totaling \$2,020,000 are identified toward Goal No. 1 - Upgrading our Village Facility at 8140 to include Village offices and facade improvements (including requesting \$294K from our DDA in addition to using our Building reserve account of \$206,000, our remaining bond proceeds of \$340,000, long term bonding of \$1,000,000 and the need to allocate \$200,000 from the 2009/2010 budget year). This plan includes a long term bond sale of \$1,000,000.

The \$2,020,000 would be used to cover the 4 primary elements proposed in Option 1A including (1) construction of a north stair/elevator tower, (2) Public Restrooms, (3) East Plaza to Alpine, and (4) New Lobby including an unfinished area under the Lobby for future DAFD buildout, but would also include (5) the construction of a fourth floor for Village offices and (6) facade improvements on all sides.

Option 1B is the same as Option 1A relative to completion of improvements to Mill Creek Park. Option 1B allows approximately \$800,000 to work toward Goal No. 2 - completion of the first phase of the Mill Creek Park restoration, including (1) grading and placement of large rocks that define the contour of the park as represented in the Master Concept Plan, (2) some riparian buffer zone improvements, (3) new sidewalks and pathways, and (4) simple restoration (mostly grass and natural areas). The cost estimates for this plan were taken from the line item cost estimates identified in the Master Plan completed by JJR. The funding sources for this project would include \$500K from a MNRTF grant, a \$250K match taken from our existing general fund reserves, and \$33K from our park reserve account. Please note that as of March 4, 2009, the \$273K in stimulus money that we thought we were getting to use for the sidewalks and pathways is no longer available due to some State Funding Adjustments.

The impact on our budget and our reserves is even more noticeable with Option 1B, especially in the first year, where we don't currently have enough money in our current reserves to cover the total expenses. In addition to requiring DDA assistance of almost \$300K (which may not be available and is a huge assumption because the DDA has current plans for this money), VC will need to agree to reduce spending in the areas of trees, sidewalk improvements, attorney fees, professional services, and other areas that have been a past focus in recent years. The annual budget for fiscal years 2010 through 2029 would include a bond payment of approximately \$85,000. Again, there would be very little discretionary funding into the future. Please note that our reserves would drop to \$175,000 as well, since we would be using \$225,000 as match for the park plan. I do not suggest in this option depleting those reserves any more than this. This analysis also includes an early projection (\$100,000) for the rising costs on our labor, insurance, healthcare, police, fire department and other costs which will likely rise each year.

The analysis does not include the likely reduction in our revenue stream due to the economy and lowering of home values. Overall, I do not see this as a viable option either for us to pursue, even if we cut back on some areas and divert the majority of our discretionary funding to these two options. Again, after analyzing this some more, I believe we would be putting ourselves in a very unhealthy financial position.



Engineering Advisors

December 8, 2008

Ms. Courtney Nicholls  
Assistant Village Manager  
8123 Main Street  
Dexter, MI 48130

Re: 8140 Main Street  
Cost Estimate

4 stories

Dear Courtney:

As you requested, we have prepared a further breakdown of the Preliminary Opinion of Probable Building Budget for the renovation of the existing facilities at 8140 Main Street. I have shown the approximate costs of the additions and renovations for Phase I as follows.

North Stair/ Elevator Tower		
Estimated cost (including fees)		\$360,000.00
Public Toilets		
Estimated cost (including fees)		\$60,000.00
East Plaza		
Estimated cost (including fees)		\$230,000.00
Remainder of Phase I		
Estimated cost (excluding furniture, including fees)	\$1,000,000.00	includes 4th floor, front facade, lobby, basement under lobby
Total of Phase I	\$1,650,000.00	

As you can see, the total of Phase I is approximately \$150,000 more than what I had indicated to you in my letter of 11/17/08. Allow me to give a few words of explanation.

First, when I had prepared that estimate, I had reduced the size of the addition on the east side by approximately 240 square feet on each floor in an effort to reduce the construction cost. This was accomplished by pushing the stair tower into the lobby space, making the lobby smaller. In this estimate I have re-inserted that area to accommodate the new restrooms.

Second, I had not included a public restroom in any of the prior designs. I have now included public restrooms on the lobby floor containing two toilet fixtures per gender.

Third, as I review the estimates, I have been attempting to refine the design and consequently the estimated cost. The result, in this case, has been an increase in the estimate.



Engineering Advisors

February 9, 2009

Ms. Courtney Nicholls  
Assistant Village Manager  
8123 Main Street  
Dexter, MI 48130

Re: 8140 Main Street  
Cost Estimate

*3 stories*

Dear Courtney:

As you requested, we have prepared a further breakdown of the Preliminary Opinion of Probable Building Budget for the renovation of the existing facilities at 8140 Main Street. The latest development of the east end is to have a tower that starts at the park level and extends only to the plaza level. The lobby is designed as a single story with a basement. The basement area serves as a future expansion of the fire station. I have shown the approximate costs of the additions and renovations as follows.

North Stair/ Elevator Tower, Public Toilets, Lobby, Plaza and unfinished area at level of fire station beneath lobby

Estimated cost (including fees)

\$1,020,000.00 - *does not include 4th floor or front facade*

The estimated cost of placing the Village Offices in the lower level has not yet been determined. However, an approximate cost of the revised north parking area and the renovation of the north façade is as follows.

North Parking

Estimated cost (including fees)

\$265,000.00

North Façade renovation

Estimated cost (including fees)

\$187,000.00

This design assumes that the access drive down to the parking area will be provided by a separate contractor.

I hope that this is helpful in your decision making process. If we can be of further assistance, please contact me.

Sincerely,  
Wayde C. Hoppe, R.A., NCARB  
Senior Architect

C: Rhett Gronevelt



Engineering Advisors

February 23, 2009

Ms. Courtney Nicholls  
Assistant Village Manager  
8123 Main Street  
Dexter, MI 48130

Re: 8140 Main Street  
Cost Estimate

Dear Courtney:

As you requested, we have prepared a further breakdown of the Preliminary Opinion of Probable Building Budget for the renovation of the existing facilities at 8140 Main Street. Currently, the council is looking at the option of renovating the lowest level into useable space for the Village Offices. You and I discussed the difficulties of removing the existing concrete columns in an effort to create an unobstructed space for the Council Chambers. The estimate below has assumed that the Council Chambers will be placed somewhere other than on the first floor of this building and that the existing concrete columns and mezzanine will remain. This space will be partitioned off and used as a mechanical area.

The estimated cost of placing the Village Offices in the lower level is as follows.

First Floor build-out/ renovation (interior space only)	
Estimated cost (including fees)	\$410,300.00

As stated in an earlier letter, an approximate cost of the revised north parking area and the renovation of the north façade is as follows.

North Parking	
Estimated cost (including fees)	\$265,000.00
North Façade renovation	
<u>Estimated cost (including fees)</u>	<u>\$187,000.00</u>
TOTAL (including fees)	\$862,300.00

This design assumes that the access drive down to the parking area will be provided by a separate contractor.

**FOURTH FLOOR ADDITION follow-up**

I had our structural consultant review the roof for suitability as a fourth floor. He has stated that the material that was used for the roof structure is called Strestcrete, is no longer manufactured and further, that it will not support today's code requirements for floor loading. My estimator has determined that it would cost an additional \$56,000.00 to provide a suitable floor structure for a fourth floor should this scheme be pursued.

Therefore a current total estimated cost for the addition of a fourth floor, exterior east plaza, two story lobby, public toilets, a four story circulation tower, south façade renovation and extension of the fire station bays is approximately \$1,800,000.00 including fees.

*Attn: Courtney Nicholls*

34000 Plymouth Road | Livonia, Michigan 48150  
p. (734) 522-6711 | f. (734) 522-6427  
www.ohm-advisors.com



AGENDA 3-9-09

ITEM K-3

## VILLAGE OF DEXTER

[ddettling@villageofdexter.org](mailto:ddettling@villageofdexter.org)

8140 Main Street . Dexter, MI 48130-1092

Phone (734)426-8303

Fax (734)426-5614

### MEMO

**To: President Keough and Council**  
**From: Donna Dettling, Village Manager**  
**Date: March 9, 2009**  
**Re: Preliminary Engineering Services**  
**Norfolk Southern Railway Company**

Council postponed action on the attached Agreement for Preliminary Engineering (PE) Services between the Village of Dexter and Norfolk Southern Railway Company in order to include Central Street at-grade crossing review for Central Street design and update the date on the agreement.

Rhonda Moore at Norfolk Southern Railway Company suggested that Central Street PE Services be in a separate agreement, which is attached. Rhonda also mentioned that the date on the original agreement must reflect the first time she was contacted.

**AGREEMENT FOR PRELIMINARY ENGINEERING SERVICES**

This agreement made by and between the Village of Dexter (hereinafter called "VILLAGE"), and Norfolk Southern Railway Company, (hereinafter called "COMPANY").

The VILLAGE will submit plans and specifications to said COMPANY for work which will involve or affect COMPANY facilities at the following location:

Town, County State:           Dexter, Washtenaw County, Michigan  
AAR-DOT#: \_\_\_\_\_  
Street /Bridge Name:       Dexter-Pinckney (County) Road  
Description:                 Proposed underpass to replace the current underpass at MP MH-47.19, convert the current one to a pedestrian path and extend the path across Mill Creek in the vicinity of MP MH-47.07.

Preliminary Engineering Cost Estimate: \$30,000

Therefore, in consideration of the benefits moving to each of the parties hereto, they do mutually agree as follows:

**ARTICLE 1. REIMBURSEMENT.** The VILLAGE agrees to reimburse the COMPANY for actual cost of preliminary engineering necessary in connection with the project.

The COMPANY shall submit to the VILLAGE fair and reasonable costs of the aforesaid work performed as evidenced by detailed invoices acceptable to the VILLAGE. The VILLAGE shall reimburse the COMPANY in the amount of the approved costs so submitted.

**ARTICLE 2. EFFECTIVE DATE OF AGREEMENT.** This agreement shall take effect at the time it is approved and signed by both the VILLAGE and the COMPANY.

**ARTICLE 3. STARTING OF WORK.** This agreement covers preliminary engineering services performed starting December 11, 2008. The COMPANY agrees to provide preliminary engineering services at the request of VILLAGE or its agent, whether written or verbal.

IN WITNESS WHEREOF, the VILLAGE and the COMPANY have caused these presents to be signed by their duly authorized officers:

**VILLAGE**  
Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

**COMPANY**  
Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

**AGREEMENT FOR PRELIMINARY ENGINEERING SERVICES**

This agreement made by and between the Village of Dexter (hereinafter called "VILLAGE"), and Norfolk Southern Railway Company, (hereinafter called "COMPANY").

The VILLAGE will submit plans and specifications to said COMPANY for work which will involve or affect COMPANY facilities at the following location:

Town, County, State:           Dexter, Washtenaw County, Michigan  
AAR-DOT#:                    545226T  
Street /Bridge Name:        Central Street  
Description:                 Proposed multi use path adjacent to the at-grade crossing in  
  the vicinity of MP MH-46.5

Preliminary Engineering Cost Estimate: \$10,000

Therefore, in consideration of the benefits moving to each of the parties hereto, they do mutually agree as follows:

**ARTICLE 1. REIMBURSEMENT.** The VILLAGE agrees to reimburse the COMPANY for actual cost of preliminary engineering necessary in connection with the project.

The COMPANY shall submit to the VILLAGE fair and reasonable costs of the aforesaid work performed as evidenced by detailed invoices acceptable to the VILLAGE. The VILLAGE shall reimburse the COMPANY in the amount of the approved costs so submitted.

**ARTICLE 2. EFFECTIVE DATE OF AGREEMENT.** This agreement shall take effect at the time it is approved and signed by both the VILLAGE and the COMPANY.

**ARTICLE 3. STARTING OF WORK.** This agreement covers preliminary engineering services performed starting February 27, 2009. The COMPANY agrees to provide preliminary engineering services at the request of VILLAGE or its agent, whether written or verbal.

IN WITNESS WHEREOF, the VILLAGE and the COMPANY have caused these presents to be signed by their duly authorized officers:

VILLAGE  
Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

COMPANY  
Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_



AGENDA 3-9-09

ITEM L-1

[cnicholls@villageofdexter.org](mailto:cnicholls@villageofdexter.org)

## VILLAGE OF DEXTER

8140 Main Street Dexter, MI 48130-1092

Phone (734)426-8303 ext 17 Fax (734)426-5614

MEMO

**To: President Keough and Council Members**  
**From: Courtney Nicholls, Assistant Village Manager**  
**Date: March 4, 2009**  
**Re: Traffic Warrant Investigation**

Attached is a letter from Jim Valenta of Midwestern Consulting that provides information relative to speed limits and the procedure for their modification. He received copies of the information provided by Mr. Rush and the e-mail written by Trustee Semifero, both of which are also included with this item.

The most recent speed study conducted by the Village was on Ryan Drive, at the cost of approximately \$1,100.



MIDWESTERN  
CONSULTING

Civil, Environmental and  
Transportation Engineers  
Planners, Surveyors,  
Landscape Architects

3815 Plaza Drive  
Ann Arbor, Michigan 48108  
734.995.0200 Phone  
734.995.0599 Fax

## MEMORANDUM

TO: Courtney Nicholls  
Village of Dexter  
Assistant Village Manager

FROM: James J. Valenta, P.E. Senior Project Manager

RE: Excessive Speed Determination and Analysis Issues

DATE: March 4, 2009

---

At the February 26, 2009 Public Town Meeting, a report on traffic stops conducted in 2008 was presented for discussion. Accompanying this report was a demand for action by reducing posted speed limits, increasing the number of speed limit signs and increasing police presence to control perceived excessive speeds. The report suggested specific speed countermeasures would be effective in achieving speed reductions to levels that would be more acceptable. Prior to the Village altering existing speed limits, a thoughtful and concise evaluation of the speeding issue should be conducted. At the forefront of this community issue is a determination of whether the speed issue is a real problem as indicated by higher than expected travel speeds and traffic crashes.

Excessive speeding is indicated when more than 20% of all vehicles along a roadway section exceed the posted speed limit by at least 5 mph. The speed at which a driver chooses to drive is a function of that driver's perception of a safe and reasonable speed - a perception that may not be shared by others in the community. In many instances, the perception of excessive speeding is not verified through scientific evaluation. In other instances, excessive travel speeds can be verified and suggestions for achieving effective speed reductions can be identified. The solution to reducing perceived excessive speeds is not as simple as putting up more speed limit signs or demanding constant enforcement. In fact, the most effective speed reduction measures are those that are passive - where the roadway conditions themselves are altered to result in a lower safe operating speed. Speed limits must be realistic and not created based upon speculation. In order for any speed enforcement program to be legal, the established speeds must be rooted in Michigan law.

Each year public agencies that have jurisdiction over streets and highways (authorized in Act 51 of the Public Acts of 1951) receive many questions and requests regarding speed limits on public roadways. Many of these concerns materialize as requests for reduced speed limits or demands for increased police enforcement. The purpose of a speed limit is to promote a safe roadway-traveling environment for motorists, bicyclists and pedestrians as well as to enable police enforcement of unsafe driving behavior. In order to promote the safest driving environment possible, established speed limits must be realistic. Care must be taken in establishing speed zones to encourage uniform travel speeds and to discourage extremely slow or extremely fast vehicular speeds.

Michigan State law governs the methods by which realistic speed limits are established. The Michigan Vehicle Code was updated in 2006 with unanimous approval from the Michigan House and Senate. The revisions to the vehicle code established a new prima facie method for determining speed limits. The revisions also placed greater emphasis on establishing an absolute speed limit through a traffic engineering study and the traffic control order process. The Village of Dexter utilizes the traffic control order process and traffic engineering studies to establish and verify legal speed limits. The Legislature, Michigan State Police, Michigan Municipal League and other transportation agencies and interest groups worked together to develop the changes in the vehicle code. The methods established for determining speed limits are based on empirical evidence and practices that are used throughout the country. These methods are designed to promote uniform operating speeds across the driving population and to provide the safest driving and roadway conditions possible.

The Michigan Vehicle Code states that at the most basic level a "person operating a vehicle on a highway shall operate that vehicle at a careful and prudent speed not greater than nor less than is reasonable and proper". The Vehicle Code places responsibility on the driver to be diligent and aware of their surroundings while being fully in control of their vehicle at all times.

The Michigan Vehicle Code establishes the maximum speed limit on all rural highways as 55 mph and 70 mph on interstate highways in this state. Prima facie reductions to these maximum speeds include 25 mph in business districts, 25 mph on platted subdivision streets, and 15 mph in mobile home parks; these prima facie speeds do not need to be posted speed limits. Other prima facie speed reductions are based on the number of driveways along a specific section of roadway.

The Michigan Vehicle Code allows for reductions in maximum speed limits to 45, 35, or 25 mph based on driveway density per half mile. Prima facie speed reductions based on access points require that the speed limit to be posted on the roadway. Maximum speed limit reductions made through this method require a field investigation where the number of access points (commercial driveways, residential driveways, and intersections) per half mile is determined. Reductions to the speed limit can be made if any of the following criteria are met:

- 25 miles per hour on a highway segment with 60 or more vehicular access points within 1/2 mile
- 35 miles per hour on a highway segment with not less than 45 vehicular access points but no more than 59 vehicular access points within 1/2 mile
- 45 miles per hour on a highway segment with not less than 30 vehicular access points but no more than 44 vehicular access points within 1/2 mile

Reliance on the number of driveways per 1/2 mile criteria does not consider other speed influences such as roadway alignment, sight distances, traffic composition or crash histories.

Another manner of establishing speed limits is to conduct a traffic engineering study of traffic speeds along a section of roadway during specific times. Usually, portable radar equipment is used to sample vehicle speeds in both travel directions. Other means of collecting speed data include the placement of two road tubes across the pavement that are connected to traffic classifier equipment. The equipment records the time interval between air pulses in the black road tubes and a computer program provides an estimate of the speed of each vehicle. Regardless of the equipment used to collect speed data, a statistical evaluation must be conducted on the data set to identify the median speed, the 10 mph pace speed and the 85th

percentile speed. This information is used as one input into a speed recommendation. Other inputs that are considered include the crash history along the roadway, intersection and stopping sight distances, the width of the roadway, the presence of parked vehicles and prevailing vehicle classifications.

Initial recommendations for establishing speed limits consider the 85<sup>th</sup> percentile speed as reasonable and prudent for prevailing roadway and environmental conditions. It is assumed that 85 percent of all drivers conduct their speeds at a safe level for these conditions. The 15 percent who exceed this speed are liable to receive speed enforcement attention without overburdening law enforcement.

Once the engineering study is completed, a traffic control order is prepared for signature of the Village Manager. Upon signature, there is a 30-day trial period where speed limit signs are established. If the traffic control order is verified to result in greater speed compliance, then at the conclusion of the 30-day trial, the traffic control order becomes permanent until rescinded or modified by a subsequent traffic control order.

Recently the Village conducted a spot speed study along Ryan Drive north of Ann Arbor Road. This study identified the 85th percentile speed as being close to 35 mph - much too fast in a residential/park setting. A review of all speed input elements predicted that a speed reduction to 25 miles per hour could be attained if the roadway was narrowed. This summer Ryan Drive is to be altered along the west curb line to construct three parking area "bump-outs" and a high-emphasis crosswalk. The resulting narrowing of the roadway will result in a speed reduction. Following this change, a post-construction speed study should be conducted to determine if the resulting speed reduction is statistically significant.

Providing for safe and reasonable travel speeds is a basic function of government and the authority to set speed limits in the Village is authorized by Michigan law. The information presented at the Public Town Meeting is a starting place from which to evaluate speed issues in the Village. If the Village Council is so disposed, Midwestern Consulting can provide assistance in determining whether the speed profiles along specific streets promotes excessive speeds, and suggest remedial speed reduction techniques.

## Donna Dettling

---

**From:** Joe Semifero [jrsemifero@yahoo.com]  
**Sent:** Friday, February 27, 2009 10:16 AM  
**To:** Shawn Keough; Donna Dettling; Courtney Nicholls  
**Cc:** Paul Cousins; Donna Fisher; Jim Smith; Ray Tell; Jim Carson  
**Subject:** Agenda Item - Traffic Warrant Investigation

Donna, Shawn,

Please add an agenda item for discussion of items (including getting evaluations for traffic warrants) for issues raised by John Rush in the information he gave each of us last night at the town hall meeting.

Can we get a quote from Jim Valenta (or whoever we'd use for this service) for determining if warrants would allow traffic control for the areas Mr. Rush noted? I do not have the communication at my fingertips, but I believe it included a stop sign on Fifth and changing speed limits on Dexter Ann Arbor between Meadowview and Ryan, Dan Hoey (entire length), and Baker Rd, and crosswalks for Baker Rd near the post office. (Need cost estimate for erecting a pedestrian activated warning light - Would crosswalks require a warrant?)

I believe Mr. Rush also asked about additional signage indicating reduced speeds are upcoming, pedestrian crossing, etc.

Mr. Rush mentioned the speed limit on Dexter-Ann Arbor Rd starting at Ryan / Dan Hoey - we should refer him to the Road Commission on this concern as I believe that is still under their jurisdiction.

Lastly, we should ask about the sheriff monitoring and ticketing on Fifth St. Possibly we could get info from the traffic seminar we went to regarding the effects of ticketing. Maybe we could also investigate changes to Fifth St, as far as the configuration of the street goes, to incorporate traffic calming devices. I do not know where Fifth St stands on the CIP.

If we can get the information, I would like the item to include consideration of the traffic warrant investigations and the associated costs, along with the discussion of the other efforts and possible future actions.

Joe Semifero

REVIEW OF SPEED LIMIT ENFORCEMENT IN THE  
VILLAGE OF DEXTER IN 2008.

PRESENTED AT THE PUBLIC TOWN MEETING ON  
FEBRUARY 26, 2009.

JON RUSH, 7930 5TH ST.  
DEXTER, MICHIGAN

DURING THE 2008 YEAR, THE WASHTENAW COUNTY  
SHERIFF IN VILLAGE OF DEXTER MADE :

TOTAL TRAFFIC STOPS : 614

CITATIONS : ( ticketed ) 264

ARRESTS : 13

OF THE 264 CITATIONS, 118 WERE FOR DRIVING OVER THE  
SPEED LIMIT.

OF THE 118 CITATIONS FOR SPEEDING, 35 WERE WRITTEN ON  
ANN ARBOR ST. AT KENSINGTON.

THEN IT DROPS TO 9 CITATIONS ON BAKER RD. AT HUDSON ST.

8 CITATIONS FOR SPEEDING ON DAN HOEY AT BISHOP CIRCLE.

7 CITATIONS FOR SPEEDING ON BAKER RD. AT DAN HOEY RD.

7 CITATIONS FOR SPEEDING AT CENTRAL ST AT SECOND ST.

7 CITATIONS FOR SPEEDING AT CENTRAL ST AT THIRD ST.

OTHER CITATIONS ARE AT VARIOUS LOCATIONS THROUGH  
THE VILLAGE WITH 4 OR LESS AT EACH LOCATION.

DEXTER NEEDS TO RECOGNIZE THAT SPEEDING IS AN URGENT PROBLEM. THE VILLAGE, WORKING CLOSELY WITH THE SHERIFF, MUST WORK TO ELIMINATE SPEEDING.

WE MUST RECOGNIZE THAT THE VILLAGE NEEDS TO DO ITS PART :

SIGNS AT VILLAGE ENTRANCES NEED TO ANNOUNCE THE SPEED LIMIT AND THAT IT WILL BE ENFORCED.

SPEED LIMIT SIGNS NEED TO BE ADDED WHERE NECESSARY.

WARNING SIGNS OF DECREASING SPEEDS NEED TO BE ADDED.

SPEED LIMITS NEED TO BE CONSISTENT. SCHOOL ZONES NEED TO BE IDENTIFIED.

FOR EXAMPLE : WHY DO WE HAVE A 35 MILE PER HOUR SPEED LIMIT ON DAN HOEY RD. THIS IS A SCHOOL ZONE WITH MILL CREEK SCHOOL STUDENTS WALKING TO THEIR HOMES AT DEXTER CROSSING. THEY CROSS DAN HOEY RD. AT LEXINGTON ST. WITHOUT A CROSS WALK OR CROSSING GUARD. A WHITE LINED CROSS WALK IS NEEDED THERE.

CORNERSTONE SCHOOL ON DAN HOEY RD HAS A 35 MILE AN HOUR SPEED LIMIT. THAT MEANS SPEEDS AT 40 MILES AN HOUR.

THE SPEED LIMIT IN FRONT OF MILL CREEK SCHOOL IS 25 MILES PER HOUR ON ANN ARBOR ST. AND 35 MILES AN HOUR ON DAN HOEY RD. WHERE SCHOOL BUSES ENTER AND EXIT.

WHY DO WE STILL HAVE THE 50 MILE SPEED SIGN STILL LOCATED AT ANN ARBOR RD. BY THE TWO SHOPPING CENTERS AT THE EAST ENTRANCE OF THE VILLAGE ? IT WAS THERE BEFORE THE AREA WAS IN THE VILLAGE. 50 IS TOO HIGH AND NEEDS TO BE LOWERED.

FIFTH ST. SPEEDWAY FROM EDISON TO CENTRAL

CARS AND TRUCKS TRAVELING FROM ANN ARBOR, ENTER FIFTH ST. FROM DEXTER ANN ARBOR RD. AT EDISON ST.

ALSO FROM DOVER ST., AND FROM THE PAVED ALLEY NEXT TO TERRY B'S RESTAURANT.

THE MAJORITY ARE DRIVING TO CONNECT TO CENTRAL ST. TO TRAVEL TOWARD THE HURON RIVER AND BEYOND.

FROM 4:00 p.m. TO SIX p.m., THE MAJORITY OF THESE VEHICLES ENTERING FIFTH ST. FROM ANN ARBOR ST. AT EDISON ST. ARE TRAVELING AT SPEEDS OF 45 MILES PER HOUR AND HIGHER AS THEY APPROACH CENTRAL ST. AND TURN RIGHT.

THE SAME SPEEDING CONDITION TAKES PLACE FROM 6:30 a.m. UNTIL 8:00 a.m. FROM CENTRAL ST. UP FIFTH ST. TO DEXTER ANN ARBOR ST.

THERE IS NO STOP SIGN AT DOVER . THIS ALLOWS DRIVERS TO RACE DOWN FIFTH TO CENTRAL. FOURTH, THIRD, SECOND, AND FIRST STREETS ALL HAVE STOP SIGNS AT DOVER, THIS MAKES 5TH ST. THE PREFERRED ROUTE.

FIFTH ST. IS A RESIDENTIAL STREET WITH A POSTED SPEED LIMIT OF 25 MILES PER HOUR. THERE ARE FAMILIES WITH YOUNG CHILDREN LIVING ON FIFTH ST.

VILLAGE, PLEASE INITIATE A STUDY OF THE FIFTH ST. AND DOVER INTERSECTION AS A FOUR WAY STOP WHICH WOULD ELIMINATE MOST OF THE SPEEDING.

SHERIFF, PLEASE CORRECT THIS EXCESSIVE SPEEDING BY MONITORING THE SPEED AND ISSUING CITATIONS.

DURING 2008, NOT ONE CITATION WAS WRITTEN FOR SPEEDING ON 5TH ST.

THE DANGEROUS SPEEDING ON FIFTH ST. MUST STOP.

PEDESTRIAN WHITE LINES CROSSING AT DEXTER  
POST OFFICE ON BAKER RD.

PEDESTRIAN CROSS WALK AT POST OFFICE ON BAKER RD.

PEDESTRIANS CROSSING BAKER RD. FROM THE OPPOSITE  
SIDE OF BAKER RD. TO THE POST OFFICE WEAVE THEIR WAY  
DAILY THROUGH STATIONARY AND MOVING TRAFFIC TO GET  
ACROSS TO THE POST OFFICE.

IT IS ONE OF THE MOST DANGEROUS AREAS FOR  
PEDESTRIANS IN THE VILLAGE. THE SPEED LIMIT IS  
30 MILES PER HOUR HERE AND ALL DOWN BAKER RD.  
AS WELL AS THE AREA IN FRONT OF THE TWO SCHOOLS.

PLEASE LETS NOT WAIT FOR A SERIOUS INJURY OF WORSE.

THE VILLAGE OF DEXTER NEEDS TO REMEDY THIS SITUATION!  
AT ONCE AND INSTALL A PEDESTRIAN CROSS WALK.

AT THE VERY LEAST, WE NEED A WHITE LINE PEDESTRIAN  
CROSSING AND SIGNAGE IDENTIFYING IT AS SUCH WITH  
APPROPRIATE WARNING SIGNS FOR CARS TO STOP.

ATTACHED IS A LETTER OF SUPPORT FROM THE DEXTER  
POSTMASTER.

POSTMASTER  
UNITED STATES POSTAL SERVICE

February 24, 2009

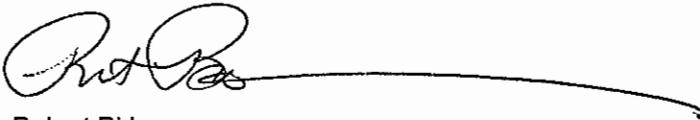
Village of Dexter

Due to the lack of parking available at the Dexter Post Office, it is necessary for customers to park across the street and then try to navigate the traffic to do their business with us. As you well know, traffic on Baker Road can be quite busy and I personally have witnessed many U-turns and speeding cars which make this a safety concern.

I reside in the Brighton Area and they have installed crosswalks on their main street. This allows the pedestrians to push a button before crossing the street triggering warning lights that flash in the crosswalk so oncoming traffic will stop and allow them to cross the street safely. While I do realize that this might be too costly for the Village, any type of crosswalk with signage would help our residents cross this busy street much safer.

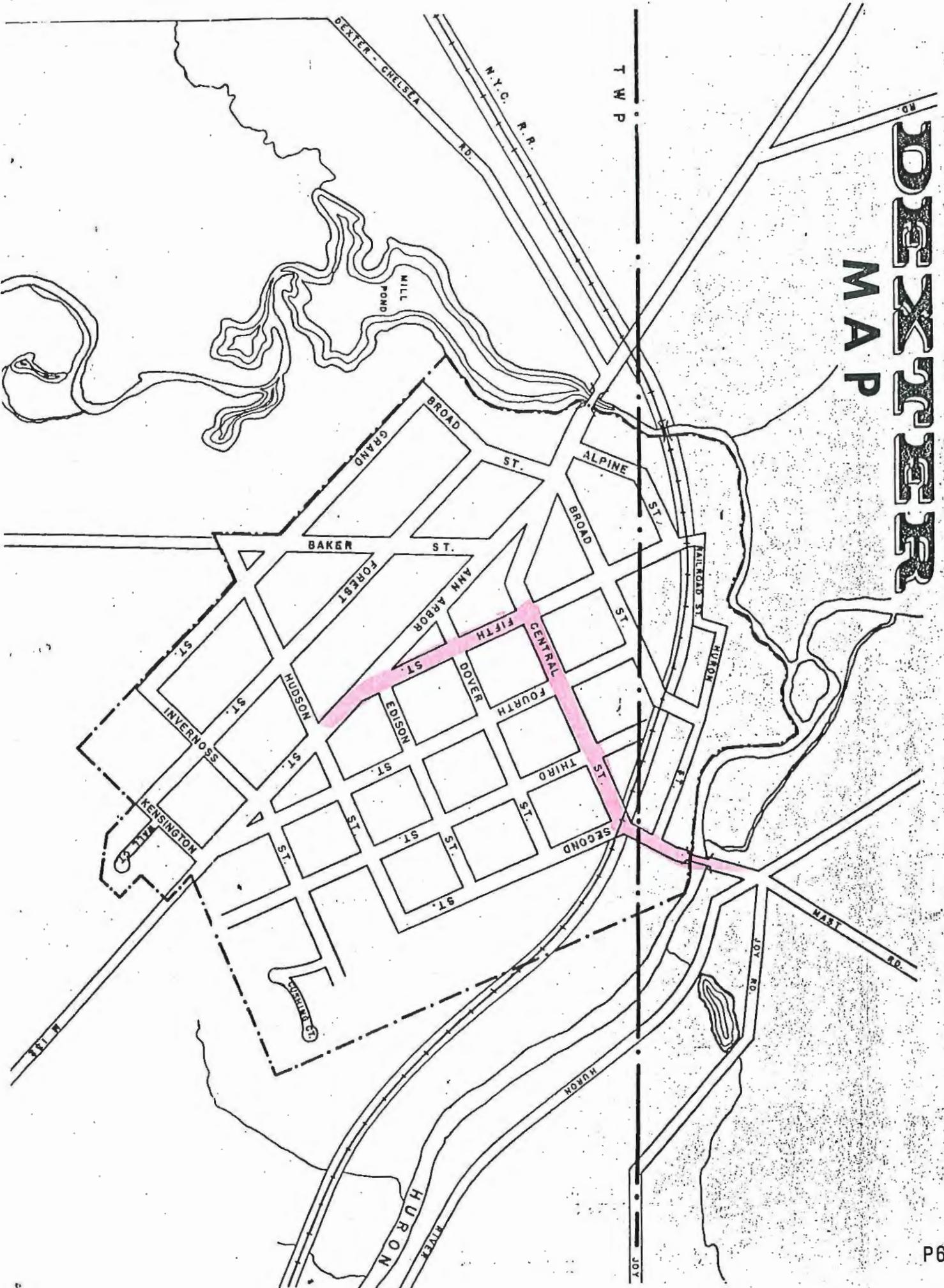
I fully support any action that can be taken that would improve this situation before we have an injury or fatality resulting from the current situation.

Sincerely,



Robert Ridenour  
Postmaster, Dexter MI 48130

# DEXTER MAP





**VILLAGE OF DEXTER**

[cnicholls@villageofdexter.org](mailto:cnicholls@villageofdexter.org)

8140 Main Street Dexter, MI 48130-1092

Phone (734)426-8303 ext 17 Fax (734)426-5614

**MEMO**

**To: President Keough and Council Members**  
**From: Courtney Nicholls, Assistant Village Manager**  
**Date: March 4, 2009**  
**Re: Drinking Water Revolving Fund**

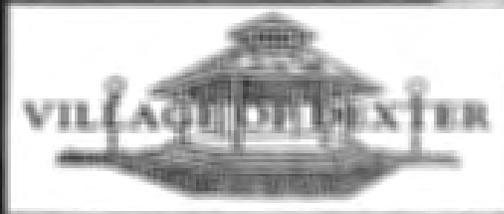
Enclosed for your review is the draft Project Plan for the Village's Drinking Water Revolving Fund application. The immediate project includes the piping and appurtenances for the new well field and upgrading the high service pumps at the current well field. For these items, we are requesting first quarter 2010 funding, which is the last quarter currently eligible to be considered for stimulus funding. The breakdown of the project years and the estimated costs can be found on page 20 of the plan.

The timeline for the submittal is as follows:

- March 9 – Draft Plan presented to Council
- March 13 – 30 day public viewing period begins
- March 23 – Council sets a Public Hearing on the Plan
- April 13 – Public Hearing / Council considers plan approval resolution
- April 27 – Second date to consider resolution if needed
- May 1 – Plan submittal deadline

# Village of Dexter DWRF Project Plan

DRAFT



Village of Dexter  
Engineering and  
Construction



## Table of Contents

<b>I.</b>	<b>Project Background</b>	<b>1</b>
A.	Summary of Project Need	1
1.	Compliance with the drinking water standards defined in the Administrative Rules for Act 399.....	1
2.	Orders or Enforcement Actions.....	3
3.	Drinking Water Quality Problems .....	3
B.	Study Area Characteristics	3
1.	Delineation of Study Area .....	3
2.	Land Use in Study Area.....	4
C.	Population Data	4
D.	Existing Facilities	4
1.	Condition of Source Facilities.....	4
2.	Water Treatment .....	5
3.	Storage Tank and Pump Station Facilities .....	5
4.	Service Lines .....	5
5.	Conveyance System.....	5
6.	Design Capacity of Waterworks System .....	6
7.	Operation and Maintenance .....	7
<b>II.</b>	<b>Analysis of Alternatives</b>	<b>8</b>
A.	Identification of Potential Alternatives – Increase Water Capacity	8
1.	No Action.....	8
2.	Optimum Performance of Existing Facilities.....	8
3.	Regional Alternatives.....	9
4.	Construct New Well Field and Upgrade High Service Pumps at Existing Water Treatment Plant.....	9
5.	Expand Existing Well Field .....	10
6.	Reopen Closed Wells at the Existing Iron Filtration Plant.....	10
7.	Connect to neighboring community water systems.....	10
B.	Identification of Potential Alternatives – Upgrade Mains	10
1.	No Action.....	10
2.	Optimum Performance of Existing Facilities.....	11
3.	Regional Alternatives.....	11
4.	Upgrade Existing Water Distribution System Mains .....	11
C.	Analysis of Principal Alternatives – Increase Water Capacity	11
1.	Obtain water from the Livingston Community Water Authority .....	11
2.	Construct New Well Field and Upgrade High Service Pumps at Existing Water Treatment Plant.....	14
D.	Analysis of Principal Alternatives – Upgrade Mains	16
1.	Upgrade Existing Water Distribution System Mains with Ductile Iron Water Main and Pipe Bursting – Area 1, Area 2 and Area 3.....	16

<b>III.</b>	<b>Selected Alternative</b>	<b>19</b>
A.	Description	19
1.	Relevant Design Parameters .....	19
2.	Controlling Factors .....	21
3.	Maps .....	21
4.	Sensitive Ecosystems.....	21
5.	Mitigation of Environmental Impacts.....	21
6.	Schedule for Design and Construction – requesting 1st <sup>d</sup> Quarter 2010 loan .....	21
B.	Transmission System Documentation	22
1.	Capacity .....	22
2.	Land Development / Land Use.....	22
C.	New Well Construction	22
D.	Monetary Cost Estimate	22
E.	User Costs	23
F.	Disadvantaged Community	23
G.	Ability to Implement the Selected Alternative	23
<b>IV.</b>	<b>Evaluation of Environmental Impacts</b>	<b>24</b>
A.	General	24
1.	Beneficial or Adverse Impacts .....	24
2.	Short and Long-Term Impacts .....	24
B.	Analyses of Impacts	25
1.	Direct Impacts .....	25
2.	Indirect Impacts .....	25
3.	Cumulative Impacts.....	26
<b>V.</b>	<b>Mitigation</b>	<b>27</b>
A.	Mitigation of Short – Term Impacts	27
B.	Mitigation of Long – Term Impacts	27
C.	Mitigation of Indirect Impacts	27
<b>VI.</b>	<b>Public Participation</b>	<b>28</b>
A.	The Formal Public Hearing (Required)	28
1.	Public Hearing Advertisement.....	28
2.	Public Hearing Transcript or Recording .....	28
3.	Comments Received and Answered .....	28
B.	Adoption of the Project Plan (Required)	28

## Tables

Table 1: Population Data.....	4
Table 2: Summary of Water Demand.....	5
Table 3: Present Worth Comparison for Upgrade Mains.....	15
Table 4: Water Demand Design Criteria.....	18
Table 5: Summary of Projects, Construction Year and Cost Opinion.....	19
Table 6: User Costs.....	21

## List of Appendices

### Appendix A: Project Figures

- ▼ Figure 1: Village of Dexter Existing Water System
- ▼ Figure 2: Location of Existing Water Quality Concerns
- ▼ Figure 3: Natural Features
- ▼ Figure 4: Zoning
- ▼ Figure 5: New Well Field and High Service Pump Upgrade
- ▼ Figure 6: Proposed Water Main Upgrades
- ▼ Figure 7: Livingston Community Water Authority Alternative Route
- ▼ Figure 8: Water Main Upgrade Areas
- ▼ Figure 9: Historic Properties
- ▼ Figure 10: Proposed Water System Improvements and Construction Phasing

### Appendix B: Previous Reports

- ▼ 2005 Water Reliability Study
- ▼ MDEQ May 2007 Water System Evaluation
- ▼ 2008 Water System Improvement Report
- ▼ 1998 Hydrogeological Analysis
- ▼ 2003 Hydrogeological Analysis
- ▼ 2007 Hydrogeological Analysis

### Appendix C: Cost Analysis

### Appendix D: Correspondence

### Appendix E: Public Hearing

### Appendix F: Village of Dexter Council Resolution

## I. Project Background

### A. Summary of Project Need

1. Compliance with the drinking water standards defined in the Administrative Rules for Act 399

The Village of Dexter has had no violations of a Maximum Contaminant Level or surface water technique. Currently, the Village supplies water from an aquifer within the Village off of Ryan Drive and Dexter-Ann Arbor Road. The raw water is treated at the water treatment plant for iron removal and disinfected before being distributed to the customers (see Figure 1 in Appendix A).

The Village's existing water infrastructure includes four community wells, an iron filtration water treatment plant, an elevated storage tank, water main, hydrants, and isolation valves. The four wells consist of three wells rated at 300 gpm and one well rated at 200 gpm resulting in a firm capacity of 800 gpm. The well pumps are sized to pump directly to the existing iron filtration plant through a dedicated 12-inch transmission main and do not have sufficient pressure to pump directly into the water distribution system. The iron filtration plant contains three high service pumps each rated at 300 gpm. Taking the largest high service pump out of service limits the firm capacity to only 600 gpm. Since the high service pumps are needed to distribute water to the customers, the Village's firm capacity is limited by these pumps and is consequently limited to 600 gpm. From the high service pumps, the water is pumped into the water distribution system, which contains approximately 28 miles of water main ranging in size from 4 to 16 inches, to the 500,000 gallon storage tank.

Three recent documents pertain to the Village's compliance with the drinking water standards defined in the Administrative Rules for Act 399. A Water Reliability Study was completed for the Village of Dexter in November 2005. The MDEQ completed a water system evaluation in May 2007 and the Village re-evaluated their water system in July 2008. The 2008 Water System Improvements Report was completed at that time.

In November 2005, the Water Reliability Study noted four recommendations that the Village should address in relation to increased reliability in their system (see Appendix B). First, upgrades were recommended to high service pumps at the iron filtration plant to increase the available firm capacity. Second, additional water storage may be needed. Finally, upgrades to the distribution system and calibration of well flow meters would help the reliability of the system.

The MDEQ completed a Water System Evaluation in May 2007. The evaluation provided the Village of Dexter Water Supply System with a rating of marginally satisfactory. This rating is mostly due to well capacity and treatment capacity of the existing system with some reliability components, as noted by the MDEQ. A copy of the Water System Evaluation is provided in Appendix B. Four items

were specifically noted in the Water System Evaluation that pertains to the DWRP Project Plan.

- a. Well Capacity – The Village’s well field firm capacity of 800 gpm is below its maximum day demand based on well pump reading in 2005 of 840 gpm.(in 2008 the maximum day water demand was reduced to 799 gpm based on recognition that the well pump flow meters at the Ryan Dr pump house were not accurately recording flow).
- b. Iron Filter Capacity – The filter’s capacity is also below the maximum day demand along with high service pump capacity.
- c. Water Storage – The MDEQ recommends storage that is equal to the average day demand. Currently, the Village’s storage volume is 93% of its average day demand (532,000 gallons needed vs. 500,000 gallons provided).
- d. Undersized and Old Water Mains – Evaluation of the old and undersized water main was recommended, along with consideration for replacement to improve water system reliability.

The 2008 Water System Improvements Report completed in July 2008 was prompted by the Village’s need for additional water capacity and included the review of a potential community well location. Along with reviewing the location as a viable community well site, the water system was further examined to determine if there were any changes in water system improvements from the 2005 Water Reliability Study. The 2008 Water System Improvements Report confirmed the deficiencies noted by the MDEQ.

As noted above, the current well field firm capacity is 800 gpm and the high service pump firm capacity is 600 gpm. The current maximum day water demand is 799 gpm recorded in July 2007. The Village has incorporated mandatory water restrictions allowing residents to water their lawns on alternating days only by using the “odd-even” method in an attempt to reduce the maximum day water demand. The maximum day water demand is expected to increase to 1,175 gpm during the 20 year design period.

Currently, the Village’s elevated storage tank holds 500,000 gallons. The recommended storage is equal to the average day water demand. The average day is currently at 370 gpm. This equates to approximately 533,000 gallons per day. Future average day water demand is expected to increase to 544 gpm. This would equate to a total storage volume of 783,000 gallons, nearly 300,000 gallons greater than currently provided.

Finally, the Village’s water distribution system is aging. There is approximately 13,000 feet of 4-inch cast iron water main that was constructed in the 1930’s. This equates to approximately 10% of the water main being older than 70 years.

## 2. Orders or Enforcement Actions

While the Village of Dexter currently has no official orders or enforcement actions targeted at correcting deficiencies in order to achieve compliance with Act 399, the MDEQ District Office in Jackson has indicated that no further Act 399 permits for installing new public water main will be approved until additional water capacity is provided based on their May 2007 Water System Evaluation.

## 3. Drinking Water Quality Problems

- a. Water quality concerns have been expressed by Dexter High School at the southwest corner of the distribution system (see Figure 2). These concerns have been related to the fact that the school exists on a dead end of the water system. The Village has flushed mains in order to improve the water quality.
- b. The Village is not proposing to provide new service to areas currently served by individual wells.
- c. There are no known areas of surface water or groundwater contamination within the limits of the project areas except at the old, closed well field located on the property of the iron filtration plant.

## B. Study Area Characteristics

### 1. Delineation of Study Area

The Village of Dexter is located just north of the central part of Washtenaw County, approximately 9 miles northwest of Ann Arbor, 7 miles east of Chelsea, and 35 miles west of Detroit. It has an area of 1.7 square miles, with limits that extend within Sections 5, 6, 7, and 8 of Scio Township and Sections 31 and 32 of Webster Township.

The Village of Dexter's public water supply is provided by the Village's Department of Public Services through four community wells. The nearest community water systems are in the City of Ann Arbor and City of Chelsea.

The Village of Dexter is part of the Huron River Watershed. Approximately 2,000 feet of the Huron River passes through the northeast portion of the Village. With the removal of the Mill Pond Dam in 2008, Mill Creek now forms the western border of the Village for approximately 6,000 feet. The creek continues for 1000 feet through the Village and then as a northern Village boundary before connecting with the Huron River. The surface waters and other natural features within the Village are shown on Figure 3.

## 2. Land Use in Study Area

According to the Village of Dexter Master Plan (2002), the majority of the existing land use is either single and multi-family residential (43%) or vacant (23%). Approximately 14% of the Village is designated for public and semi-public land use and 11% is designated for industrial land use. The remaining land uses include retail and office. The existing zoning designations are shown on Figure 4.

The predicted future land use for the Village is mostly single and multi-family residential with a few areas of commercial and industrial land use.

## C. Population Data

The Village of Dexter's residential population was 3,312 in 2005 according to Southeast Michigan Council of Governments (SEMCOG) 2035 Forecast for Southeast Michigan. Currently, the population is estimated at 3,599 people. SEMCOG predicts the 2035 total population to be 3,826 (see Table 1). There is no seasonal variance in population within the Village of Dexter.

Table 1: Population Data

	Existing Population	2015	2020	2030
Study Area	Village of Dexter			
Service Area Year-round	3,599	3,668	3,711	3,790
Service Area Seasonal	NA	NA	NA	NA

Source: U.S. Census Bureau and SEMCOG 2035 Forecast.

There are 1,502 water customers in the Village of Dexter, and of those, 1,329 are residential customers. However, it is important to note that of those 1,329 customers approximately 530 customers have irrigation meters. Also, of the five largest users, two of them are schools.

## D. Existing Facilities

### 1. Condition of Source Facilities

The Village of Dexter obtains its potable water from four community wells located within Monument Park along Ryan Drive northeast of Dexter-Ann Arbor Road. Each community well is approximately 200 feet deep in a confined aquifer. This well site is relatively new with three wells rated at 300 gpm being constructed in 1998 and one well rated at 200 gpm being constructed in 2005. The total well capacity is 1,100 gpm and the firm capacity is 800 gpm. These wells are operating well.

## 2. Water Treatment

The water is pumped from each well to the Village's iron filtration plant. At the iron filtration plant, air is introduced to the water in order to oxidize the iron and remove hydrogen sulfide. The water then passes through sand filters to remove iron and other suspended solids, after which it is disinfected and pumped into the distribution system and to the elevated storage tank located in the industrial park.

Once water is pumped out of the drinking water well field, it gets transported to an iron filtration plant. The plant was constructed in 1977 and is located east of Central Street between the Conrail tracks and the Huron River. The plant was upgraded in 1999 to add a third filter, replace the gaseous chlorine system with sodium hypochlorite and to add a third 300-gpm high service pump. Main plant components consist of one 1,200-gpm aerator, a detention tank rated at 700 gpm based on a 30 minute detention time, three 300 gpm high service pumps, and three 300-gpm pressure filters for iron removal. The firm capacity of the water treatment plant based on the high service pumps is 600 gpm.

## 3. Storage Tank and Pump Station Facilities

The Village also owns and operates a 500,000 gallon elevated storage tank in the Industrial Park. It was constructed in 1989.

The pump stations exist in the Ryan Drive Pump House at the existing well site and at the water treatment plant. The apparatus that has been a biggest concern to the Village is the flow meter at the Ryan Drive Pump House. The meter has been repaired and calibrated on numerous occasions to ensure that it is accurately reporting the correct flow. To date, the meter is not reading the amount of flow properly. The Village of Dexter relies on the flow meter at the Water Treatment Plant to provide accurate flow readings.

## 4. Service Lines

Service lines in the Village range from 5/8" to 6" with a few industrial customers having larger meters. Seventy percent of water services are copper and 30% are lead. Most of the lead services are less than 1-inch in diameter. As water main is replaced, lead water services are replaced to the edge of the right-of-way with 1-inch copper services.

## 5. Conveyance System

The existing water distribution system is comprised of 4-inch to 16-inch water main. Nearly 72% of the water main is 8 inches and smaller. The 8-inch water main accounts for 58% of all the water main in the Village's system.

The City's water distribution system is aging. The 4-inch water main that exists in the water distribution system makes up approximately 10% of the Village's

system. It is cast iron water main that was constructed in the 1930's, making it almost 80-years old. All of the 4-inch water main is in the "Old Village" area.

Though the 4-inch cast iron water main is the oldest water main, a majority of the existing water main is ductile iron. The Village continues to upgrade the water main when road work is completed in the area.

#### 6. Design Capacity of Waterworks System

Design capacity of the waterworks system is based on the documentation contained in the 2008 Water System Improvements Report dated July 2008. The following table summarizes the design conditions:

Table 2: Summary of Water Demand

Water Demand Condition	Existing (Year 2008)	Future Design	Peaking Factor
Average Day	370 gpm	544 gpm	
Maximum Day	799 gpm	1,175 gpm	2.16
Peak Hour	1,799 gpm	2,645 gpm	4.86

The future design condition is based on anticipated growth in the Village considering previously discussed development projects, further development of some small parcels within the Village limits and full build-out of previously permitted developments. Based on today's growth rate, this demand is expected to be reached in the next 20 years.

According to the MDEQ, the Village must have sufficient well field capacity to supply the maximum day water demand with the largest well out of service. Currently, the Village has a rated well field firm capacity of 800 gpm, essentially equal to the existing maximum day water demand and less than the future maximum day water demand.

However, since the wells do not pump directly into the distribution system, but instead pump to the iron filtration plant, the Village's overall firm capacity is further reduced because of the limitations of the high service pumps at the iron filtration plant. The firm capacity of the high service pumps is 600 gpm, which is the actual firm capacity of the Village's water system.

Table 2 above shows the existing and future maximum day water demand to be greater than the Village's current firm capacity based on the capacity of the high service pumps. Additionally, the future maximum day water demand is greater than the well field firm capacity. Therefore, the Village must increase both the firm capacity of the high service pumps and that of the well supply.

## 7. Operation and Maintenance

Operation and maintenance of the Village's water system is an ongoing process. At the pump house for the existing well, the flow meter is continually monitored. The Village is continually working to ensure accuracy. However, the meter at Well #4 often appears to be inaccurate based on the flow readings at the water treatment plant.

A SCADA system is in place to activate the water system and help monitor the amount of water being pumped out of the wells to the water treatment plant and into the distribution system and the emergency storage tank. This way, the level in the emergency storage tank is always known.

The Village provides Monthly Operating Reports (MOR) to the DEQ discussing the daily chemical treatment and testing that is done on the water system.

As for the distribution system, the Village upgrades the water system as roadwork is completed. Flushing is performed on a biannual basis. Valves are exercised and inspected as preparatory work in conjunction with water main replacement projects.

## II. Analysis of Alternatives

This section includes a discussion of different alternatives for the two types of upgrades the Village is considering. The upgrades include:

- Increase water capacity
- Upgrade mains

### A. Identification of Potential Alternatives – Increase Water Capacity

#### 1. No Action

The Village's current maximum daily demand is 799 gpm. The existing well field along Ryan Drive in Monument Park is rated for a total well field capacity of 1,100 gpm (three – 300 gpm wells and one – 200 gpm well). Taking the largest well out of service leaves a resulting firm capacity of 800 gpm which is essentially equal to the existing maximum day water demand. According to Recommended Standards for Water Works, 2007 Edition, a groundwater source capacity shall equal or exceed the design maximum day demand with the largest producing well out of service. It is anticipated that the Village's maximum day water demand will exceed the well field firm capacity under the design future condition.

Additionally, the high service pumps at the iron filtration plant have a firm capacity of 600 gpm. This firm capacity is less than the current maximum day water demand.

If the Village chose "No Action", they would continue to be in violation of state requirements. Therefore, no action is not a principal alternative.

#### 2. Optimum Performance of Existing Facilities

The Village needs to either increase water capacity or reduce the maximum day water demand. The Village has already instituted "odd-even" lawn watering in an attempt to reduce the maximum day water demand. The Village does not expect to reduce its maximum day water demand to less than or equal to the current well field firm capacity of 800 gpm or the existing high service pumps firm capacity of 600 gpm especially during the 20 year design condition.

The existing well field is producing the maximum permitted water withdrawal based on the 1998 and 2003 Hydrogeological Analyses (see Appendix B). It is not permissible to pump more water from the existing well field site. Upgrading the high service pumps to match the firm capacity of the existing well field site is possible; however, it would only increase the firm capacity from 600 gpm to 800 gpm. Without additional source capacity, the system will be unable to meet the future design demand.

The Village has already optimized operations that are within their control. Therefore, optimum performance of existing facilities is not a principal alternative.

### 3. Regional Alternatives

Three regional water suppliers exist in the surrounding area. Two are located in eastern Washtenaw County (City of Ann Arbor and Ypsilanti Community Utilities Authority) and the third is the Livingston Community Water Authority located in Livingston County. The respective distances are as follows:

- City of Ann Arbor – 4.5 miles
- Ypsilanti Community Water Authority – 16 miles
- Livingston Community Water Authority – 13.6 miles

The closest regional water supplier is the City of Ann Arbor. It is understood that the City does not have sufficient water capacity to provide water to the Village of Dexter. The next closest regional water supplier is the Livingston Community Water Authority. It is expected that they would have sufficient water for the Village of Dexter. Therefore, connecting to a regional water supply is a principal alternative.

### 4. Construct New Well Field and Upgrade High Service Pumps at Existing Water Treatment Plant

The Village has initiated an investigation to find an additional groundwater supply to supplement the existing well field located in Monument Park along Ryan Drive. A new well field site was identified in the vicinity of Dexter High School. Hydrogeological testing was performed and the well field site has been rated to be capable of producing a maximum of 500 gpm from two wells (each rated for a maximum of 250 gpm) (see Appendix B and Figure 5).

Iron removal will be provided through sequestering with polyphosphate. The groundwater was sampled on February 19, 2008 and January 14, 2009. The iron concentrations were 0.65 mg/l and 1.1 mg/l respectively. It is understood that sequestering is an appropriate iron removal technology when the iron concentration is less than 1 mg/l. For this alternative, it is proposed to chemically treat the water with polyphosphate and if this method is proven to be ineffective, then an iron filtration plant similar to the existing iron filtration plant would be constructed in the future.

This option also includes construction of 3,500 feet of new 12-inch water main and associated valves and hydrants to connect the new well field site with the rest of the Village water system. No additional users are expected as the result of this water main extension.

Finally, this alternative includes upgrading the three existing high service pumps at the existing water treatment plant from three 300-gpm pumps to three 400-gpm pumps. The purpose of this upgrade is to increase the firm capacity of the existing water treatment plant to be equal to the firm capacity of the existing well field at Monument Park which is 800 gpm.

Constructing a new well field and upgrading the high service pumps at the existing iron filtration plant is a principal alternative.

#### 5. Expand Existing Well Field

The existing well field along Ryan Drive has a total well capacity of 1,100 gpm with an existing firm capacity of 800 gpm. Based on the 1998 and 2003 Hydrogeological Analyses (see Appendix B), this rate is the maximum amount of water that can be withdrawn from this well field site. Therefore, expansion of the existing well field is not a principal alternative.

#### 6. Reopen Closed Wells at the Existing Iron Filtration Plant

The original Village wells are located at the iron filtration plant property on First Street. Both wells were closed in 1996 due to groundwater contamination from tetrachloroethylene and trichloroethylene. Based on the OHM Preliminary Engineering Report from 1996, there is no confirmed source of the contaminants. Further studies indicated that the wells appear to be located in an unconfined aquifer. As a result, the chances for contamination are increased.

Due to the presence of contaminants and risk for future contamination, utilizing the existing wells is not a feasible option. Therefore, reopening the closed wells is not a principle alternative.

#### 7. Connect to neighboring community water systems

The City of Chelsea is located approximately 6.5 miles from the Village of Dexter. However, it is understood that the City does not have sufficient excess water capacity to serve the Village. Therefore, connecting to a neighboring community water system is not a principal alternative.

### B. Identification of Potential Alternatives – Upgrade Mains

#### 1. No Action

The Village of Dexter has an aging water distribution system. The mains in question are located in the “Old Village” area. They are 4-inch diameter mains constructed in the 1930s and are prone to limited flow and some water main breaks. Hydrants are located on these main, but their usefulness is limited. If no action is taken, these mains will continue to age and weaken and reliability of the system will decrease. No action is not a principal alternative.

## 2. Optimum Performance of Existing Facilities

Optimizing the performance of the existing water system would include changing operational procedures to increase flow and reduce the number of water main breaks, thereby increasing the reliability of the system. Since the majority of the water system is made of metallic material constructed without cathodic protection and is aging, optimizing the existing facilities is not a realistic option since the structural integrity will continue to deteriorate to a point that replacement or rehabilitation is required. Therefore, optimum performance of existing facilities is not a principal alternative.

## 3. Regional Alternatives

The Village owns their own water distribution system and is responsible for the operation and maintenance. A regional approach to solving the Village's aging water distribution system is not appropriate for this situation. Therefore, a regional alternative is not a principal alternative.

## 4. Upgrade Existing Water Distribution System Mains

Portion of the Village's water distribution system have reached their useful life. The mains being considered for replacement or rehabilitation are 4-inch cast iron water mains constructed in the 1930s. These mains provide limited flow and have experienced some water main breaks. Hydrants are also located along these 4-inch water mains and provide little fire protection. Due to the size and age, replacement or rehabilitation of the water mains is an appropriate solution. The November 2005 Water Reliability Study, the 2008 Water System Improvements Report, and the 2007 MDEQ Water System Evaluation have identified numerous streets where the water main should be replaced or rehabilitated (see Figure 6). Two alternatives for upgrading the existing water distribution mains that will be considered principal alternatives are replacement with ductile iron water main and pipe bursting with ductile iron water main. The Village engineering standards do not allow for HDPE or PVC water main.

### C. Analysis of Principal Alternatives – Increase Water Capacity

Analysis of Principal Alternatives for increasing water capacity includes an analysis of obtaining water from the Livingston Community Water Authority and construction of a new well field along with upgrading the high service pumps at the existing iron filtration plant.

#### 1. Obtain water from the Livingston Community Water Authority

##### a. Background of Proposed Recommendation

The Livingston Community Water Authority (LCWA) was established in 2004. Water is provided through a well field located at the northwest

corner Rickett and Winans Lake Roads in Green Oak Township. The water is treated for iron removal through an ion exchange process.

This water system has excess well field capacity that could potentially be sold to the Village of Dexter. However, this option would require the construction of approximately 13.6 miles of 20-inch water main with associated valves and hydrants. In addition, the existing water treatment plant would need to be expanded along with upgrading the existing well pumps. This option will also require that a water contract be entered into between the Village of Dexter and the LCWA. Figure 7 shows a potential route of the proposed 20-inch transmission main.

b. Cost-Effective Analysis

A present worth calculation was performed for extending water from the LCWA water system to the Village of Dexter. The present worth for this option is approximately \$17.9 million (see Appendix C for calculations).

c. Environmental Evaluation

Typical construction disturbances such as noise, dust, and traffic disruptions are expected during the construction of the 20-inch transmission main. The proposed route of the 20-inch transmission main is expected to cross the following natural features:

- Huron River
- Potential wetland along Mast 0.5 miles north of North Territorial
- Potential wetland along Strawberry Lake Road at Mast Road intersection
- Potential wetland along Strawberry Lake Road 0.7 miles west of Merrill Road
- Potential wetland along Hamburg Road 0.3 miles north of M-36 intersection
- Unnamed stream on Hamburg Road 0.3 miles north of Strawberry Lake Road

Upgrades to the existing well pumps and expansion of the existing water treatment plant will occur on the existing LCWA parcel and no adverse impacts are expected as the result of that construction.

d. Implementability and Public Participation

User fees associated with this option include capital costs and operation and maintenance (O&M) costs. These may be of concern to the public as the construction cost is significant. In addition, a relatively large transmission main will be constructed throughout a vast rural area. Residents along the route may have concerns that the water main will

spur development and thereby, change the character of their surroundings.

Adoption of this alternative would maintain compliance with applicable water quality standards.

e. Technical and Other Considerations

System Reliability – All alternatives selected in this section demonstrate sound engineering principles and comply with the established requirements as outlined in the “Recommended Standards for Waterworks” as published by the Great Lakes and Upper Mississippi Board of State Sanitary Engineers.

Residuals – No water treatment is proposed with the water main construction project therefore, no significant change in residuals is expected for the evaluated alternatives.

Industrial/Commercial/Institutional Usage – Existing and future users were taken into account during the development of the water demands.

Growth Capacity – The growth capacity within the service area was evaluated and taken into account in the recommendation. The population was projected based on regional planning estimates for the Village of Dexter over the 20-year planning period.

Contamination at the Project Site –

Two areas within the project site are listed on the state’s list of contaminated sites (<http://www.deq.state.mi.us/part201ss/>). These are associated with a Part 201 site at 10737 Hamburg Road and a Part 213 site at 7620 M-36. Specifics on the exact pollutant are not available. Precautionary measures will be taken at this location to ensure the new water main does not become contaminated. Applicable MDEQ procedures, 10 State Standards, as well as local ordinances shall be strictly adhered to during the construction. 10 State Standards and applicable MDEQ contamination procedures and local ordinances will be included with the design plans. Specialized rubber gaskets (designed to withstand groundwater contamination) at water main joints will be proposed in these areas to help prevent contaminants from entering the water main.

Due to the contamination, additional soil investigative work will be conducted to verify the nature of the contamination.

2. Construct New Well Field and Upgrade High Service Pumps at Existing Water Treatment Plant

a. Background of Proposed Recommendation

This option includes the construction of two new wells at a proposed well field site located in the vicinity of the Dexter High School. Iron removal will be provided by treating the well water with polyphosphates. 3,500 feet of 12-inch water main with associated valves and hydrants will be constructed to connect the new well field site with the rest of the Village water system. The option also includes upgrading the three existing high service pumps at the existing iron filtration plant from three 300-gpm pumps to three 400-gpm pumps.

b. Cost-Effective Analysis

A present worth calculation was performed for this option and was determined to be approximately \$2.25 million (see Appendix C for calculations).

c. Environmental Evaluation

Typical construction disturbances such as noise, dust, and traffic disruptions are expected during the construction of the 12-inch water main. The water main is primarily located within Village easements, and will require excavation, backfilling, and compaction to complete the construction process. A minimal number of trees are proposed to be removed. Any tree that is removed will be replaced as part of the project. Impact on the environment is expected to be minimal.

The high service pumps will be replaced at the existing iron filtration plant. No impacts to the environment are expected due to this construction.

The well field development will have typical construction disturbances similar to the 12-inch water main construction. Brush clearing may occur, but no large trees are proposed to be removed. Impacts on the environment for this construction are expected to be minimal as well.

There are no known historical or archeological sites within the project area. There are no unique features pertaining to topography, soils, natural features or geology within the proposed construction zone. The construction is not expected to impact any threatened or endangered species.

d. Implementability and Public Participation

User fees associated with the new wells and upgrading the high service pumps at the iron filtration plant include capital costs and operation and maintenance (O&M) costs. These may be of concern to the public. This project is included in 2008 Water System Improvements Report.

Adoption of this alternative would maintain compliance with applicable water quality standards.

e. Technical and Other Considerations

System Reliability – All alternatives selected in this section demonstrate sound engineering principles and comply with the established requirements as outlined in the “Recommended Standards for Waterworks” as published by the Great Lakes and Upper Mississippi Board of State Sanitary Engineers.

Construction of the new well and transmission main will also provide additional reliability to the overall water system. In addition, the water quality issues experienced at the school due to the school being at the dead end of the system will be alleviated.

Residuals – Treatment with polyphosphates is proposed as part of this alternative. Polyphosphates will be added to the well water to sequester the iron. No residuals are expected to be generated at the new well field site. However, it is anticipated that more frequent flushing of the water distribution system will be needed due to potential settling of iron oxide within the mains.

Industrial/Commercial/Institutional Usage – Existing and future users were taken into account during the analysis of the water demands.

Growth Capacity – The growth capacity within the service area was evaluated and taken into account in the recommendation. The population was projected based on regional planning estimates for the Village of Dexter over the 20-year planning period.

Contamination at the Project Site – One area within the project site is listed on the state’s list of contaminated sites (<http://www.deq.state.mi.us/part201ss/>). The contaminated area is a Part 201 site at the iron filtration plant location. The contamination is groundwater. Since the proposed work is inside the existing iron filtration plant and no excavation is proposed, there are no concerns associated with work in this area.

#### D. Analysis of Principal Alternatives – Upgrade Mains

Analysis of Principal Alternatives for upgrading water distribution main includes a comparison between replacing the old 4-inch cast iron water mains with new ductile iron water main or rehabilitating the mains through pipe bursting with ductile iron water main. Three project areas are considered. The first area (Area 1) includes the water main along Forest, Inverness and Grand, the second area (Area 2) includes water main along Fourth Street and Fifth Street and the third area (Area 3) includes water main along Dover, Edison and Hudson (see Figure 8).

1. Upgrade Existing Water Distribution System Mains with Ductile Iron Water Main and Pipe Bursting – Area 1, Area 2 and Area 3
  - a. Background of Proposed Recommendation

The work proposed in Area 1, Area 2 and Area 3 includes either replacing the existing 4-inch water main with new 8-inch water main or pipe bursting the existing water main to an 8-inch diameter. These mains serve primarily residential customers and are currently equipped with fire hydrants. The existing mains were constructed in the 1930s and have served their useful life. They are undersized and the Village is concerned about their ability to continue to provide potable water and fire protection reliability.

For Area 1, new 8-inch water main is proposed along Forest from Baker to Inverness; along Grand from 200 feet northwest of Baker to 200 feet southeast of Inverness; and along Inverness from Baker to Forest. For Area 2, new 8-inch water main is proposed along Fourth Street from Broad to Inverness and along Fifth Street from Central to Edison. For Area 3, new 8-inch water main is proposed along Dover from Fifth Street to Third Street, along Edison from Fifth Street to Second Street and along Hudson from Fourth Street to Second Street.

- b. Cost-Effective Analysis

Present worth calculations were performed considering replacing the 4-inch water main with ductile iron water main or pipe bursting the existing main to an 8-inch diameter. Table 3 summarizes the present worth results (see Appendix C for calculations).

Table 3: Present Worth Comparison for Upgrade Mains

Area	Ductile Iron Water Main	Pipe Bursting
Area 1	\$950,000	\$960,000
Area 2	\$620,000	\$630,000
Area 3	\$600,000	\$610,000

As shown in the present worth analysis replacement of ductile iron pipe has the lowest present worth.

c. Environmental Evaluation

Typical construction disturbances such as noise, dust, and traffic disruptions are expected during the replacement of the water main. The water main is primarily located within the right-of-way, and will require excavation, backfilling, and compaction to complete the construction process. Impact on the environment is expected to be minimal.

The water main construction will occur along existing roads, and all the water main is replacement of existing mains. Placement is expected to be in the greenbelt areas. Tree removal will be minimal, and any trees removed will be replaced as part of the project. The trench will be 10 to 12 feet wide. Water service interruption will be minimal – typically lasting a couple of hours. Restoration will be completed as soon as possible.

Figure 9 shows the location of historical properties within the project area. No impacts will be caused by the water main work. Depth of frost is anticipated to be 3 feet. There are no unique features pertaining to topography, soils, or geology within the proposed construction zone. There are no surface waters within the proposed construction limits. Please see Appendix D for response letters from the Michigan Department of Natural Resources regarding threatened or endangered species in the proposed project area.

d. Implementability and Public Participation

User fees associated with the replacement of the water main include capital costs and operation and maintenance (O&M) costs. These may be of concern to the public. The capital and O&M costs are similar for the two principal alternatives evaluated. These water main improvement projects are included in the 2005 Water Reliability Study and the 2008 Water System Improvements Report.

Adoption of this alternative would maintain compliance with applicable water quality standards. In addition, replacement of the water main would improve the water service to the Village residents.

e. Technical and Other Considerations

System Reliability – All alternatives selected in this section demonstrate sound engineering principles and comply with the established requirements as outlined in the “Recommended Standards for Waterworks” as published by the Great Lakes and Upper Mississippi Board of State Sanitary Engineers.

Residuals – No water treatment is proposed with the water main construction projects therefore, no significant change in residuals is expected for the evaluated alternatives.

Industrial/Commercial/Institutional Usage – Existing and future users were taken into account during the analysis of the water demands.

Growth Capacity – The growth capacity within the service area was evaluated and taken into account in the recommendation. The population was projected based on regional planning estimates for the Village of Dexter over the 20-year planning period.

Contamination at the Project Site – Two areas within the project site are listed on the state’s list of contaminated sites (<http://www.deq.state.mi.us/part201ss/>). These sites include a Part 213 location at 2810 Baker Road and a Part 213 location 2940 Baker Road.

Precautionary measures will be taken throughout this location to ensure the new water main does not become contaminated. Applicable MDEQ procedures, 10 State Standards, as well as local ordinances shall be strictly adhered to during the construction. 10 State Standards and applicable MDEQ contamination procedures and local ordinances will be included with the design plans. Specialized rubber gaskets (designed to withstand groundwater contamination) at water main joints will be proposed in these areas to help prevent contaminants from entering the water main

### III. Selected Alternative

#### A. Description

##### 1. Relevant Design Parameters

The selected alternative involves upgrading all major aspects of the Village's water system (source supply, high service pumps, storage, distribution and treatment). Specifically, the selected alternative includes construction of two new wells at a new well field site located near the Dexter High School, upgrading three high service pumps at the existing iron filtration plant, upgrading existing 4-inch water main located in the "Old Village" area, adding 300,000 gallons of storage and possibly building an iron filtration plant at the new well field site (based on future iron concentrations found in the well water). While the entire selected alternative is needed during the 20 year design period, only part of the selected alternative will be constructed within the next five years.

As discussed in Summary of Project Need, the Village's water system must be capable of providing maximum day water demand to its customers. In order to do this, the Village must first have sufficient water supply and high service pump capacity. Peak hour water demands and fire protection are handled by the Village's existing 500,000 gallon elevated storage tank.

Table 4 includes a summary of the Village's water demand that was used in determining the selected alternative:

Table 4: Water Demand Design Criteria

Water Demand Condition	Existing (Year 2008)	Future Design
Average Day	370 gpm	544 gpm
Maximum Day	799 gpm	1,175 gpm
Peak Hour	1,799 gpm	2,645 gpm

Listed below are the elements and timing of the selected alternative:

#### Groundwater Supply and Polyphosphate Treatment

- Two new wells each rated for 250 gpm at a new well field site located by the Dexter High School – one well to be constructed in 2010 and the second well to be constructed in the Future
- Iron removal through polyphosphate to be constructed in 2010 (future iron filtration plant may be needed based on future iron concentrations)
- 3,500 feet of 12-inch water main to connect the new well field site to the existing Village water distribution system – constructed in 2010

Future total well field firm capacity will be 1,300 gpm (800 gpm Monument Park Well Field + 500 gpm Dexter High School Well Field)

High Service Pump Upgrades

- Replace the three existing 300-gpm high service pumps at the existing iron filtration plant with three new 400-gpm high service pumps – construction in 2010

Firm capacity of the existing iron filtration plant will be 800 gpm equal to the firm capacity of the Monument Park Well Field.

Distribution Main Upgrades

- Upgrade 5500 feet of 4-inch water main to 8-inch water main in Area 1 (Forest, Inverness & Grand): Year 2012
- Upgrade 3600 feet of 4-inch water main to 8-inch water main in Area 2 (Fourth Street and Fifth Street): Year 2013
- Upgrade 3500 feet of 4-inch water main to 8-inch water main in Area 3 (Dover, Edison & Hudson): Year 2014

Storage

- Provide an additional 300,000 gallons of storage: Future

Iron Filtration at Dexter High School Well Field Site

- Upgrade of polyphosphate treatment system at the new well field site to an iron filtration plant if needed based on future iron concentration found at the new well field at the Dexter High School : Future

Table 5 provides a summary of the proposed projects, construction year and cost opinion

Table 5: Summary of Projects, Construction Year and Cost Opinion

Project Name	Year	Size or Capacity	Overall Length (ft)	Cost Opinion
Well #1 at new well field site with polyphosphate treatment and 12-inch water main	2010	250 gpm well and 12-inch water main	3,500	\$1,400,000
High Service Pump Upgrades	2010	3 pumps @ 400 gpm each	NA	\$ 375,000
Area 1 Distribution Mains	2012	8-inch	5,500	\$1,200,000
Area 2 Distribution Mains	2013	8-inch	3,600	\$800,000
Area 3 Distribution Mains	2014	8-inch	3,500	\$770,000
Well #2 at new well field site	Future	250 gpm	NA	\$ 500,000
Storage	Future	300,000 gallons	NA	\$1,300,000*

Iron Filtration Plant at Dexter High School Well Field	Future	500 gpm	NA	\$ 2,000,000
--	--------	---------	----	--------------

\*storage cost opinion does not include land acquisition

## 2. Controlling Factors

The factors that will likely strongly influence the design and construction of the various improvements are the following:

- a. The MDEQ has stopped issuing construction permits for water main construction due to the Village's inability to meet its maximum day water demand – therefore increasing well field capacity and high service pump capacity is critical.
- b. Service will need to be maintained to existing customers since many of the water mains are replacing existing mains.
- c. The sizing of the improvements was determined through the 2008 Water System Improvements Report.
- d. Iron concentrations from water samples taken at the new well field site are at the upper limit where polyphosphate is a viable treatment method. It will be necessary to monitor the iron concentration as the well is put into production. It may be necessary to upgrade the polyphosphate system to an iron filtration system depending on future iron concentrations.

## 3. Maps

Figure 10 shows the location of the proposed water system improvements and construction phasing.

## 4. Sensitive Ecosystems

There are no sensitive ecosystems located in the proposed project area. Figure 3 in Appendix A shows the natural features in the project area. If any threatened or endangered species are encountered during construction, they will be protected from the proposed construction.

## 5. Mitigation of Environmental Impacts

It is anticipated that the impact to the environment will be minimal. All necessary steps to preserve the natural resources in the area affected by the project shall be employed.

## 6. Schedule for Design and Construction – requesting 1st<sup>d</sup> Quarter 2010 loan

Advertise Public Hearing	March 12, 2009
Project Plan Draft on Display	March 13, 2009

Submit Draft Project Plan to MDEQ	March 13, 2009
Receive Draft Project Plan Comments from MDEQ	April 7, 2009
Public Hearing	April 13, 2009
Final Project Plan Submittal to MDEQ	April 30, 2009
Design Completed for 2010 projects	September 1, 2009
Permits Received	September 15, 2009
Advertise for Bids	September 21, 2009
Bid Date	October 20, 2009
Begin Construction	January 1, 2010
End Construction	September 30, 2010

Schedule for design and construction of the other projects would be determined at that time.

## B. Transmission System Documentation

### 1. Capacity

The Village has an existing 12-inch transmission main that connects the existing iron filtration plant to the 500,000 gallon elevated storage tank along with some 8-inch loops and 16-inch main. The 2005 Water System Reliability Study has documented that there is sufficient transmission capacity and it is the smaller 4-inch water main along the residential streets that limit the flow. Supply capacity is a concern for the Village; however, with the proposed upgrades in this Project Plan the limitations with the supply will be remedied.

### 2. Land Development / Land Use

The proposed project is only intended to service customers within the current service area. Water main is not being extended to serve new customers.

## C. New Well Construction

Two new wells are proposed to be constructed. One 12-inch test well currently exists at the Dexter High School property. All hydrogeological testing at this well field site have been closely coordinated with the MDEQ Jackson and Lansing Offices. MDEQ approval has been received for the proposed site.

## D. Monetary Cost Estimate

The estimated costs of improvements are included in Appendix C. The cost estimates were based on similar costs seen in the Southeast Michigan region including the Village of Dexter.

E. User Costs

Since the project is projected to be phased over a five year period. User fees were determined for each separate project and are summarized in Table 6 (detailed calculations are included in Appendix C.)

Table 6: User Costs

Project Name	Total Annual Cost	Number of REUs	Annual Cost/REU
Well #1 at new well field site with polyphosphate treatment and 12-inch water main	\$145,000	2415	\$60.04
High Service Pump Upgrades	\$26,000	2415	\$10.77
Area 1 Distribution Mains	\$79,000	2415	\$32.71
Area 2 Distribution Mains	\$52,000	2415	\$21.53
Area 3 Distribution Mains	\$51,000	2415	\$21.12

The project will be paid for through the annual 3% increase in water rates.

F. Disadvantaged Community

The Village will be seeking a determination if they qualify as a disadvantaged community.

G. Ability to Implement the Selected Alternative

The selected alternative will be implemented by the Village of Dexter. All work is under the jurisdiction of the Village other than development of the new well field site. The Village has secured an agreement with the Dexter Community School District for an easement for the well field site.

## IV. Evaluation of Environmental Impacts

### A. General

The Village of Dexter plans on three areas of improvement to their water system. They are planning to install two additional wells on the grounds of Dexter High School, upgrade three existing high service pumps at the iron filtration plant and replace/rehabilitate aging 4-inch water main at several locations throughout the Village.

#### 1. Beneficial or Adverse Impacts

The benefits of the proposed water system improvements will be increased distribution reliability to the Village users. Demand on the system is rising and to mitigate any potential long-term problems the Village needs to increase the capacity to meet the maximum day water demand. Any adverse impacts, such as noise of dust, would only be associated with the construction of the wells or water main. These impacts would be limited to the time of construction.

The benefits are as follows:

- Well installation – increase well field firm capacity from 800 gpm to 1,300 gpm, exceeding the future maximum day water demand of 1,175 gpm
- High service pump upgrades – increase the firm capacity of the existing high service pumps to 800 gpm (match the firm capacity of the existing well field)
- Water main improvements – reduce the potential for system failures due to aging pipes greater than 70 years old

#### 2. Short and Long-Term Impacts

The anticipated short-term impacts will be related to construction activities for the well installation and water main improvements. In both cases construction and installation of new water main will be occurring on the high school property and road right-of-way. Impacts such as noise, dust and traffic circulation may occur. However, they will secede following construction.

There are no foreseeable impacts anticipated with upgrading the high service pumps at the iron filtration plant. The removal of the old pumps and installation of the new pumps will happen inside the building and on the property. No exterior modifications are expected.

Any long-term impacts will be positive due to the increased reliability to the water distribution system.

## B. Analyses of Impacts

### 1. Direct Impacts

- a. There are no anticipated impacts to historical, archeological, geographical, cultural or recreational areas by the proposed water improvements projects. There are some nearby historical homes, however all the water main improvements will be in the road right-of-way.
- b. There are no anticipated impacts to the existing and future quality of the surface and groundwater by the proposed water improvement projects. A 100-ft isolation area will be established around the first well and a 200-ft isolation area may be established around the second well to protect the groundwater supply. The maximum withdrawal rate was determined by the 2007 Hydrogeological Analysis so nearby residential wells would not be impacted.
- c. There are no anticipated impacts to sensitive features by the proposed water improvement projects. All construction sites will be reestablished to their preconstruction conditions.
- d. Consumption of materials, land and energy will be kept to a minimum. A small pump house will be constructed around the well and all water main improvements will be within right-of-way or easements.
- e. There are no anticipated human or social impacts by the proposed water improvements projects other than the user fee. The water main improvements will be underground so they will not be visible to people. The upgrade of the existing high service pumps will be done at the existing iron filtration plant and the new well field at the Dexter High School will be located in an easement provided to the Village.
- f. The only construction impacts will affect users and property owners adjacent to the roadways where pipe improvements are occurring. Dust, noise and delayed circulation may occur during the construction period.

### 2. Indirect Impacts

- a. There are no anticipated changes in the rate, density or type of development by the proposed water improvements.
- b. There are no anticipated changes in land use due to the proposed water improvements.
- c. There are no anticipated changes in air or water quality stemming from primary or secondary development.

- d. There are no anticipated changes to the natural setting or sensitive ecosystems due to the proposed water improvements.
- e. There are no anticipated impacts to cultural, human, social or economic resources due to the water system improvements.
- f. There is no anticipated resource consumption over the useful life of the facility and/or generation of wastes.
- g. Aesthetic impacts may occur during construction and will only be temporary. All sites will be restored to their previous condition.

### 3. Cumulative Impacts

- a. Siltation and erosion may occur due to construction excavation activities. In these areas, soil erosion and sedimentation mitigation procedures will be followed, such as installing silt fencing and catch basin liners.
- b. The proposed water system improvements are not anticipated to change the rate of development within the Village.
- c. There are no anticipated impacts due to multiple public works projects occurring in the same vicinity. If projects are nearby they will be coordinated with local officials to reduce impacts to surrounding properties and drivers.
- d. There will be a fiscal impact to the customers due to the multiple projects that will occur. However, the Village is planning on staging the projects as to reduce the impact as much as possible.

## V. Mitigation

### A. Mitigation of Short – Term Impacts

Typical construction mitigation is expected for the selected alternative. Traffic control will be required during the water main replacement along all the roads. Access to some roads may be temporarily restricted to provide a safe working environment. Soil erosion and sedimentation control measures will be required during the water main installation to ensure nearby surface waters or storm drains are not impacted by the construction process. A water truck will need to be available as dust may be an issue on dry, windy days. Any vegetation or road way disrupted by the construction process will be rehabilitated to its original condition. Coordination will take place with the schools so that construction on the school site does not disrupt school.

### B. Mitigation of Long – Term Impacts

#### 1. General Construction

The proposed projects do not occur in or near any sensitive environments.

#### 2. Siting and Routing Decisions

The well location is away from the high school and roadway. No long-term siting impacts are anticipated for the project.

All water main improvements will be to existing infrastructure and there are no siting or routing alternatives.

#### 3. Operational Impacts

There are not anticipated operational impacts associated with this project.

### C. Mitigation of Indirect Impacts

The proposed project is intended to improve the reliability, quality, and functionality of the existing system and is not intended to induce growth within the Village of Dexter.

## VI. Public Participation

### A. The Formal Public Hearing (Required)

The formal public hearing was held on April 13, 2009.

#### 1. Public Hearing Advertisement

The public hearing advertisement ran in the Ann Arbor News and the Dexter Leader on April , 2009. A copy of the advertisement and an affidavit confirming its publication is included in Appendix E.

#### 2. Public Hearing Transcript or Recording

The public hearing transcript is included in Appendix E.

#### 3. Comments Received and Answered

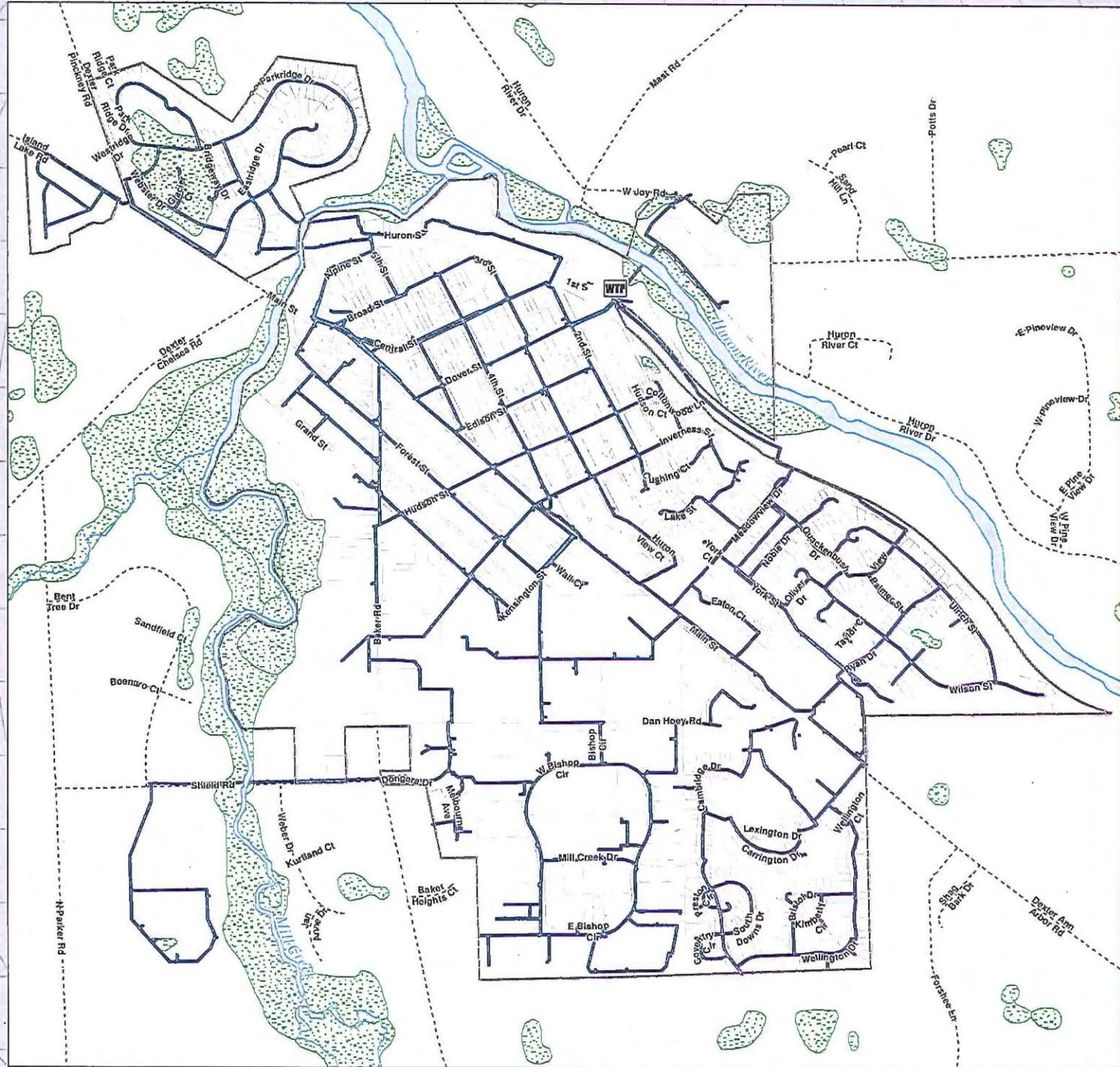
The names and addresses of the people who attended the public hearing, written comments, applicants responses, and a description to any changes where were made to the project as a result of the public participation process are included in Appendix E.

### B. Adoption of the Project Plan (Required)

The resolution is included in Appendix F.







# FIGURE 3 NATURAL FEATURES

DWRF PROJECT PLAN



- Water Treatment Plant
- Existing Water Main
- Road Centerline
- Waterway
- Waterbody
- NWI Wetland c. 1978
- Parcel Boundary
- Municipal Boundary



500 250 0 500 Feet

**OHM**  
Advancing Communities™

34000 PLYMOUTH ROAD  
LIVONIA, MI 48150  
734.522.6711  
734.522.6427 (fax)

Date provided by Orchard, Hill and McMillan and the Washtenaw County Information Technology Department. Orchard, Hill and McMillan does not warrant the accuracy of the data used on the map. This document is intended to display the approximate spatial location of the mapped features within the Village and all use is strictly at the user's own risk.

PUBLISHED 02.11.2009

















AGENDA 3-9-09

ITEM L-3

**VILLAGE OF DEXTER**

8140 Main Street Dexter, MI 48130-1092

Phone (734)426-8303 ext 17 Fax (734)426-5614

[cnicholls@villageofdexter.org](mailto:cnicholls@villageofdexter.org)

MEMO

**To: President Keough and Council Members**  
**From: Courtney Nicholls, Assistant Village Manager**  
**Date: March 9, 2009**  
**Re: Asset Management**

Attached is the Scope of Services from OHM regarding the Village's asset management plan. Money for this scope and the project is budgeted in both the major and local street funds. The staff recommendation is that Council approve the Scope of Work as submitted for not to exceed \$8,000.

I am preparing a spreadsheet of the road segments in the Village and the work that is planned for them (treatment in 2009, CIP, etc). This document will be available for use by staff and Council to help answer resident questions about the plans for the roads and keep us on track when planning for projects in future years.

February 17, 2009

Village of Dexter  
8140 N. Main Street  
Dexter, MI 48130



Attention: Ms. Courtney Nicholls  
Assistant Village Manager

Regarding: Village of Dexter  
Road Maintenance Program  
Proposal for Engineering Services

Dear Ms. Nicholls:

Orchard, Hiltz & McCliment, Inc. (OHM) is pleased to submit this proposal for engineering services to create contract documents for the Road Maintenance Program for the Fiscal Years of 08/09 and 09/10.

#### PROJECT UNDERSTANDING

In August 2008, OHM presented the Village with an updated 2008 Road Maintenance Program Summary Report. That report detailed the recommended types of maintenance (crack seal and cape seal) and the Village streets to be included as part of the maintenance program. At the request of the Village, micro-surfacing was also explored as an additional maintenance method to be applied on Village streets. This has proved to be a viable option to include as part of the maintenance program.

Therefore, three types of preventative maintenance are proposed to be included as part of the Road Maintenance Program – crack sealing, cape sealing, and micro-surfacing. These three options will provide the Village with the flexibility to appropriately maintain their streets.

The work to be completed as part of FY 08/09 and 09/10 will be done in the Spring/Summer of 2009. The amount of work that will be completed as part of the Road Maintenance Program will be dependant on the type of work that is done on the Village streets.

#### SCOPE OF SERVICE

Our proposed scope of engineering services for the Road Maintenance Program includes:

- Development contract documents that outline the three potential road maintenance methods – crack seal, cape seal and micro-surface - to be completed on Village streets
- Creation of an Opinion of Probable Cost based on the desired maintenance methods
- Advertisement of the project
- Attendance at the bid opening
- Recommendation of a contract award to a qualified bidder

SCHEDULE

OHM can begin the work outlined in this proposal immediately upon authorization from the Village. The work will be completed within 6 weeks of authorization.

ADDITIONAL SERVICES

OHM will be pleased to provide additional services for this project upon request. We will provide a separate proposal for said services for approval prior to performing any additional work, which can be on a lump sum or hourly fee basis.

COMPENSATION

OHM proposes to provide the above outlined professional services on an hourly to a maximum fee of \$8,000.00. The Village will be invoiced monthly for the value of services completed to date. All invoices are payable upon receipt.

CONTRACT TERMS AND CONDITIONS

The attached Standard Terms and Conditions, dated March 2003 and as shown as Exhibit 1, are incorporated into this proposal by reference. Section No. 7 is omitted per request of the Village.

We thank you for this opportunity to provide professional engineering services. Should there be any questions, please contact us at 734-522-6711.

Should you find our proposal acceptable, please execute both copies of the attached agreement and return one copy to us for our files.

Very truly yours,  
ORCHARD, HILTZ & McCLIMENT, INC.

*Christine A. Cale*

Christine A. Cale, P.E.  
Project Engineer

VILLAGE OF DEXTER

Accepted By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Attachments: Exhibit 1 – Standard Terms and Conditions

## STANDARD TERMS and CONDITIONS

1. THE AGREEMENT – These Standard Terms and Conditions and the attached Proposal or Scope of Services, upon their acceptance by the Owner, shall constitute the entire Agreement between Orchard, Hiltz & McCliment, Inc. (OHM), a registered Michigan Corporation, and the Owner. The Agreement shall supersede all prior negotiations or agreements, whether written or oral, with respect to the subject matter herein. The Agreement may be amended only by mutual agreement between OHM and the Owner and said amendments must be in written form.

2. SERVICES TO BE PROVIDED – OHM will perform the services as set forth in the attached proposal or scope of services which is hereby made a part of the Agreement.

3. SERVICES TO BE PROVIDED BY OWNER – The Owner shall at no cost to OHM:

- a) Provide OHM personnel with access to the work site to allow timely performance of the work required under this Agreement.
- b) Provide to OHM within a reasonable time frame, any and all data and information in the Owners possession as may be required by OHM to perform the services under this Agreement.
- c) Designate a person to act as Owners representative who shall have the authority to transmit instructions, receive information, and define Owner policies and decisions as they relate to services under this Agreement.

4. PERIOD OF SERVICE – The services called for in this Agreement shall be completed within the time frame stipulated in the Proposal or Scope of Services, or if not stipulated shall be completed within a time frame which may reasonably be required for completion of the work. OHM shall not be liable for any loss or damage due to failure or delay in rendering any service called for under this agreement resulting from any cause beyond OHM's reasonable control.

5. COMPENSATION – The Owner shall pay OHM for services performed in accordance with the method of payment as stated in the Proposal or Scope of Services. Method of compensation may be lump sum, hourly; based on a rate schedule,

percentage of the construction cost, or cost plus a fixed fee. The Owner shall pay OHM for reimbursable expenses for subconsultant services, equipment rental or other special project related items at a rate of 1.15 times the invoice amount.

6. TERMS OF PAYMENT – Invoices shall be submitted to the Owner not more often than monthly for services performed during the preceding period. Owner shall pay the full amount of the invoice within thirty days of the invoice date. If payment is not made within thirty days, the amount due to OHM shall include a charge at the rate of one percent per month from said thirtieth day.

~~7. LIMIT OF LIABILITY – OHM shall perform professional services under this Agreement in a manner consistent with the degree of care and skill in accordance with applicable professional standards of services of this type of work. To the fullest extent permitted by law, and notwithstanding any other provision of this Agreement, the total liability in the aggregate, of OHM and its Officers, Directors, Partners, employees, agents, and subconsultants, and any of them, to the Owner and anyone claiming by, through or under the Owner, for any and all claims, losses, costs or damages of any nature whatsoever arises out of, resulting from or in any way related to the project or the Agreement from any cause or causes, including but not limited to the negligence, professional errors or omissions, strict liability, breach of contract or warranty, express or implied, of OHM or OHM's Officers, Directors, employees, agents or subconsultants, or any of them shall not exceed the amount of \$25,000 or OHM's fee, whichever is less.~~

8. ASSIGNMENT – Neither party to this Agreement shall transfer, sublet, or assign any duties, rights under or interest in this Agreement without the prior written consent of the other party.

9. NO WAIVER – Failure of either party to enforce, at anytime, the provisions of this Agreement shall not constitute a waiver of such provisions or the right of either party at any time to avail themselves of such remedies as either

may have for any breach or breaches of such provisions.

10. GOVERNING LAW – The laws of the State of Michigan will govern the validity of this Agreement, its interpretation and performance.

11. DOCUMENTS OF SERVICE – The Owner acknowledges OHM's reports, plans and construction documents as instruments of professional services. Nevertheless, the plans and specifications prepared under this Agreement shall become the property of the Owner upon completion of the work and payment in full of all monies due OHM, however, OHM shall have the unlimited right to use such drawings, specifications and reports and the intellectual property therein. The Owner shall not reuse or make any modifications to the plans and specifications without prior written authorization by OHM. In accepting and utilizing any drawings or other data on any electronic media provided by OHM, the Owner agrees that they will perform acceptance tests or procedures on the data within 30 days of receipt of the file. Any defects the Owner discovers during this period will be reported to OHM and will be corrected as part of OHM's basic Scope of Services.

12. TERMINATION – Either party may at any time terminate this Agreement upon giving the other party 7 calendar days prior written notice. The Owner shall within 45 days of termination, pay OHM for all services rendered and all costs incurred up to the date of termination in accordance with compensation provisions in this Agreement.

13. OHM'S RIGHT TO SUSPEND ITS SERVICES – In the event that the Owner fails to pay OHM the amount shown on any invoice within 60 days of the date of the invoice, OHM may, after giving 7 days notice to the Owner, suspend its services until payment in full for all services and expenses is received.

14. OPINIONS OF PROBABLE COST – OHM's preparation of Opinions of Probable Cost represent OHM's best judgment as a design professional familiar with the industry. The Owner must recognize that OHM has no control over costs or the prices of labor, equipment or materials, or over the contractor's method of pricing. OHM makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual cost.

15. JOB SITE SAFETY – Neither the professional activities of OHM, nor the presence of OHM or our employees and subconsultants at a construction site shall relieve the General Contractor or any other entity of their obligations, duties, and responsibilities including, but not limited to, construction means, methods, sequences, techniques or procedures necessary for performing, superintending or coordinating all portions of the work of construction in accordance with the contract documents and the health or safety precautions required by any regulatory agency. OHM has no authority to exercise any control over any construction contractor or any other entity or their employees in connection with their work or any health or safety precautions. The Owner agrees that the General Contractor is solely responsible for jobsite safety, and warrants that this intent shall be made clear in the Owners agreement with the General Contractor. The Owner also agrees that OHM shall be indemnified and shall be made additional insureds under the General Contractors general liability insurance policy.

16. DISPUTE RESOLUTION – In an effort to resolve any conflicts that arise during the design or construction of the project or following the completion of the project, the Owner and OHM agree that all disputes between them arising out of or relating to this Agreement shall be submitted to nonbinding mediation, unless the parties mutually agree otherwise.



AGENDA 3-9-09

ITEM L-4

[cnicholls@villageofdexter.org](mailto:cnicholls@villageofdexter.org)

## VILLAGE OF DEXTER

8140 Main Street Dexter, MI 48130-1092

Phone (734)426-8303 ext 17 Fax (734)426-5614

### MEMO

**To: President Keough and Council Members**  
**From: Courtney Nicholls, Assistant Village Manager**  
**Date: March 4, 2009**  
**Re: Sanitary Sewer Rehabilitation**

As part of the funding we are set to receive through the State Revolving Fund, the Village will be completing rehabilitation of structurally deficient sanitary sewer pipes throughout the Village. These pipes are outlined in red on the attached map. The cost of this work will be approximately \$500,000. Enclosed is a proposal from Orchard, Hiltz and McCliment to provide engineering services for this portion of the project. It is recommended the Council approve this Scope of Services for not to exceed \$30,000. This expenditure will come from sewer department funds and be reimbursable through SRF.

March 4, 2009

Village of Dexter  
8140 N. Main Street  
Dexter, MI 48130



Attention: Ms. Courtney Nicholls  
Assistant Village Manager

Regarding: Village of Dexter  
Sanitary Sewer Rehabilitation  
Proposal for Engineering Services

Dear Ms. Nicholls:

Orchard, Hiltz & McCliment, Inc. (OHM) is pleased to submit this proposal for engineering services necessary to rehabilitate a portion of the Village of Dexter's sanitary sewer identified on the attached "Determination of Structurally Deficient Pipes".

#### PROJECT UNDERSTANDING

In September 2008, the Village of Dexter was awarded State Revolving Fund (SRF) loan to address issues within the Village's wastewater system. Through a series of evaluations and inspections, it was determined that the construction of an equalization basin and rehabilitation of the sanitary sewer would address the sanitary system capacity issues as well as many structurally deficient sewer pipes within the Village. While the design of the equalization basin is being completed under a separate contract, this scope of services addresses the engineering services for the sanitary sewer rehabilitation.

Only the portion of sanitary sewer that is justified as "structurally deficient" can be rehabilitated using funding through the SRF loan. This equates to approximately 40% of the sewer that was televised in 2006 (See attached map for sewers proposed to be rehabilitated). This sewer is proposed to be rehabilitated using cured-in-place lining techniques. This will reduce not only the costs of the rehabilitation, but also the disruption to the neighborhoods.

#### SCOPE OF SERVICE

Our proposed scope of engineering services for the Sanitary Sewer Rehabilitation includes:

- Research of rehabilitation methods to include discussion and review of existing CCTV sewer video with sewer lining contractor to determine the threshold of lining
- Development of contract documents that outline the sewer rehabilitation methods to include: adjustment of protruding sewer lead taps, spot repairs to main line sewer, sewer lining, etc
- Submittal of proposed sewer rehabilitation to the Village for review
- Submittal to the MDEQ with the EQ basin as part of the SRF process
- Creation of an Opinion of Probable Cost based on the desired rehabilitation methods
- Advertisement of the project
- Attendance at the bid opening
- Recommendation of a contract award to a qualified bidder

**SCHEDULE**

OHM can begin the work outlined in this proposal immediately upon authorization from the Village. The work will be completed in conjunction with the equalization basin design for submittal to the MDEQ. Project bid will occur in June 2009.

**ADDITIONAL SERVICES**

OHM will be pleased to provide additional services for this project upon request. We will provide a separate proposal for said services for approval prior to performing any additional work, which can be on a lump sum or hourly fee basis.

**COMPENSATION**

OHM proposes to provide the above outlined professional services on an hourly to a maximum fee of \$30,000. The Village will be invoiced monthly for the value of services completed to date. All invoices are payable upon receipt.

**CONTRACT TERMS AND CONDITIONS**

The attached Standard Terms and Conditions, dated March 2003 and as shown as Exhibit 1, are incorporated into this proposal by reference. Section No. 7 is omitted per request of the Village.

We thank you for this opportunity to provide professional engineering services. Should there be any questions, please contact us at 734-522-6711. Should you find our proposal acceptable, please execute both copies of the attached agreement and return one copy to us for our files.

Very truly yours,  
ORCHARD, HILTZ & McCLIMENT, INC.

*Christine A. Cale*

Christine A. Cale, P.E.  
Project Engineer

VILLAGE OF DEXTER

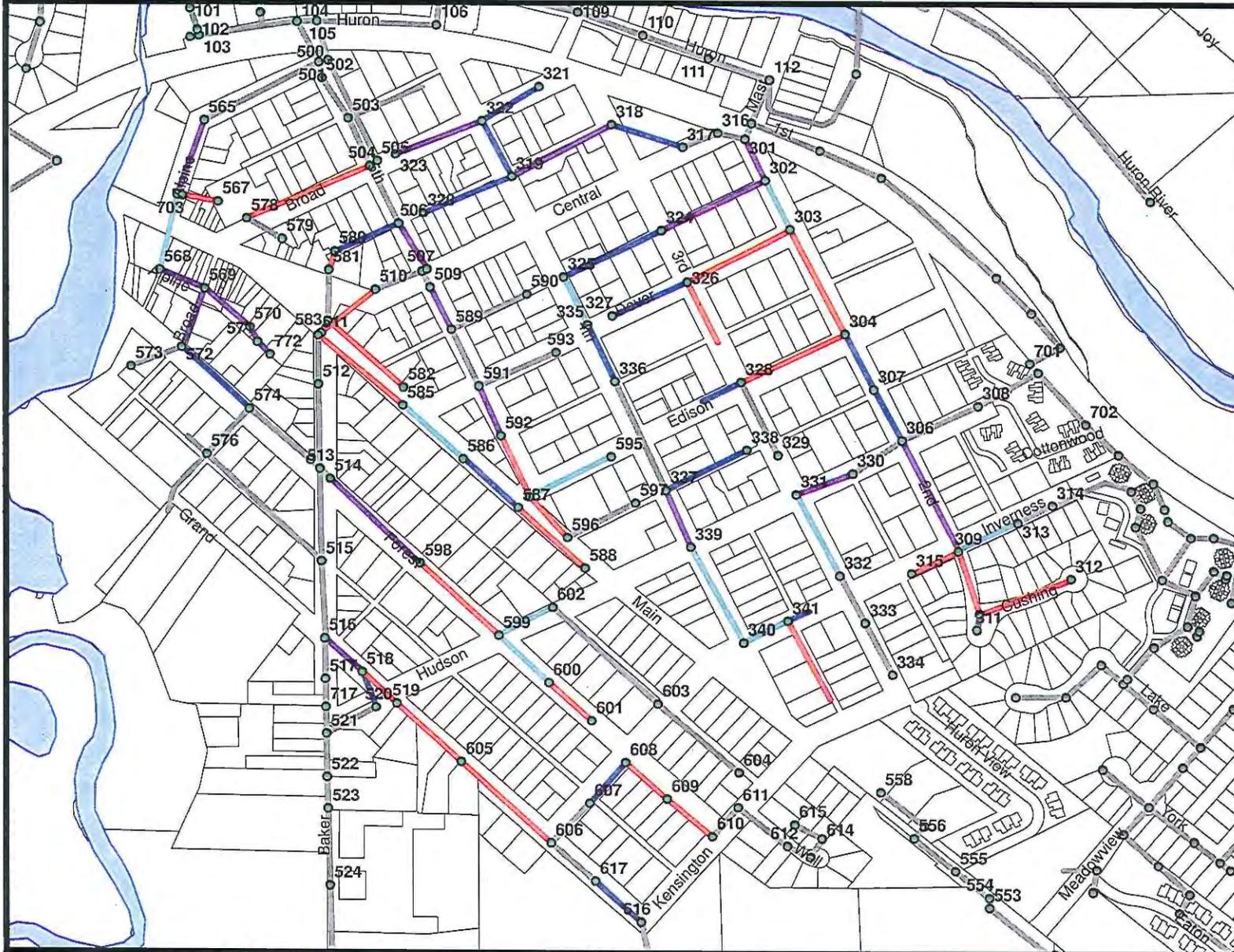
Accepted By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Attachments: Exhibit 1 – Standard Terms and Conditions



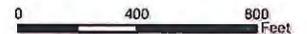
Village of Dexter



**Legend**

-  Not Inspected
-  Retelease
-  Grout
-  Line
-  Line (Structure Repair)

Note: The method of analysis used to determine the rehabilitation alternatives is a general evaluation of pipe condition and does not include a detailed analysis of each pipe. Therefore, some pipes may be effectively corrected through spot repairs.



**Alternatives for Sewer Rehabilitation**



**Determination of Structurally Deficient Pipes**  
**Village of Dexter SRF Project Plan**

Pipe ID	Street Name	From MH	To MH	Length of Sewer (ft)	Structurally Deficient	Number of Deficiencies	Recommended Rehab
98	Grand Street	519	518	200	Yes	8	Pipe Lining
38	Central Street	581	580	136	Yes	12	Pipe Lining
32	Alpine Street	703	566	145	Yes	16	Pipe Lining
64	Ann Arbor Street	512	510	302	Yes	50	Pipe Lining
39	Ann Arbor Street	585	583	474	Yes	131	Pipe Lining
27	Broad Street	504	578	578	Yes	49	Pipe Lining
10	Cushing Court	312	310	433	Yes	43	Pipe Lining
18	Dover Street	326	303	468	Yes	64	Pipe Lining
5	Edison Street	304	328	488	Yes	82	Pipe Lining
42	Fifth Street	592	594	293	Yes	32	Pipe Lining
44	Fifth Street	594	596	239	Yes	39	Pipe Lining
45	Forest Street	598	599	513	Yes	27	Pipe Lining
48	Grand Street	605	606	524	Yes	13	Pipe Lining
51	Inverness Street	315	309	215	Yes	28	Pipe Lining
59	Third Street	326	Unknown	156	Yes	34	Pipe Lining
52	Ann Arbor Road	587	588	391	Yes	62	Pipe Lining
66	Ann Arbor Street	512	582	475	Yes	65	Pipe Lining
56	Forest Street	609	610	251	Yes	32	Pipe Lining
50	Forest Street	609	608	267	Yes	11	Pipe Lining
53	Grand Street	519	605	378	Yes	37	Pipe Lining
76	Inverness Street	341	342	400	Yes	63	Pipe Lining
4	Second Street	304	303	525	Yes	21	Pipe Lining
9	Second Street	310	309	298	Yes	59	Pipe Lining
57	Forest Street	600	601	247	Yes		Pipe Lining

## STANDARD TERMS and CONDITIONS

1. THE AGREEMENT – These Standard Terms and Conditions and the attached Proposal or Scope of Services, upon their acceptance by the Owner, shall constitute the entire Agreement between Orchard, Hiltz & McCliment, Inc. (OHM), a registered Michigan Corporation, and the Owner. The Agreement shall supersede all prior negotiations or agreements, whether written or oral, with respect to the subject matter herein. The Agreement may be amended only by mutual agreement between OHM and the Owner and said amendments must be in written form.

2. SERVICES TO BE PROVIDED – OHM will perform the services as set forth in the attached proposal or scope of services which is hereby made a part of the Agreement.

3. SERVICES TO BE PROVIDED BY OWNER – The Owner shall at no cost to OHM:

- a) Provide OHM personnel with access to the work site to allow timely performance of the work required under this Agreement.
- b) Provide to OHM within a reasonable time frame, any and all data and information in the Owners possession as may be required by OHM to perform the services under this Agreement.
- c) Designate a person to act as Owners representative who shall have the authority to transmit instructions, receive information, and define Owner policies and decisions as they relate to services under this Agreement.

4. PERIOD OF SERVICE – The services called for in this Agreement shall be completed within the time frame stipulated in the Proposal or Scope of Services, or if not stipulated shall be completed within a time frame which may reasonably be required for completion of the work. OHM shall not be liable for any loss or damage due to failure or delay in rendering any service called for under this agreement resulting from any cause beyond OHM's reasonable control.

5. COMPENSATION – The Owner shall pay OHM for services performed in accordance with the method of payment as stated in the Proposal or Scope of Services. Method of compensation may be lump sum, hourly; based on a rate schedule,

percentage of the construction cost, or cost plus a fixed fee. The Owner shall pay OHM for reimbursable expenses for subconsultant services, equipment rental or other special project related items at a rate of 1.15 times the invoice amount.

6. TERMS OF PAYMENT – Invoices shall be submitted to the Owner not more often than monthly for services performed during the preceding period. Owner shall pay the full amount of the invoice within thirty days of the invoice date. If payment is not made within thirty days, the amount due to OHM shall include a charge at the rate of one percent per month from said thirtieth day.

~~7. LIMIT OF LIABILITY – OHM shall perform professional services under this Agreement in a manner consistent with the degree of care and skill in accordance with applicable professional standards of services of this type of work. To the fullest extent permitted by law, and notwithstanding any other provision of this Agreement, the total liability in the aggregate, of OHM and its Officers, Directors, Partners, employees, agents, and subconsultants, and any of them, to the Owner and anyone claiming by, through or under the Owner, for any and all claims, losses, costs or damages of any nature whatsoever arises out of, resulting from or in any way related to the project or the Agreement from any cause or causes, including but not limited to the negligence, professional errors or omissions, strict liability, breach of contract or warranty, express or implied, of OHM or OHM's Officers, Directors, employees, agents or subconsultants, or any of them shall not exceed the amount of \$25,000 or OHM's fee, whichever is less.~~

8. ASSIGNMENT – Neither party to this Agreement shall transfer, sublet, or assign any duties, rights under or interest in this Agreement without the prior written consent of the other party.

9. NO WAIVER – Failure of either party to enforce, at anytime, the provisions of this Agreement shall not constitute a waiver of such provisions or the right of either party at any time to avail themselves of such remedies as either

may have for any breach or breaches of such provisions.

10. GOVERNING LAW – The laws of the State of Michigan will govern the validity of this Agreement, its interpretation and performance.

11. DOCUMENTS OF SERVICE – The Owner acknowledges OHM's reports, plans and construction documents as instruments of professional services. Nevertheless, the plans and specifications prepared under this Agreement shall become the property of the Owner upon completion of the work and payment in full of all monies due OHM, however, OHM shall have the unlimited right to use such drawings, specifications and reports and the intellectual property therein. The Owner shall not reuse or make any modifications to the plans and specifications without prior written authorization by OHM. In accepting and utilizing any drawings or other data on any electronic media provided by OHM, the Owner agrees that they will perform acceptance tests or procedures on the data within 30 days of receipt of the file. Any defects the Owner discovers during this period will be reported to OHM and will be corrected as part of OHM's basic Scope of Services.

12. TERMINATION – Either party may at any time terminate this Agreement upon giving the other party 7 calendar days prior written notice. The Owner shall within 45 days of termination, pay OHM for all services rendered and all costs incurred up to the date of termination in accordance with compensation provisions in this Agreement.

13. OHM'S RIGHT TO SUSPEND ITS SERVICES – In the event that the Owner fails to pay OHM the amount shown on any invoice within 60 days of the date of the invoice, OHM may, after giving 7 days notice to the Owner, suspend its services until payment in full for all services and expenses is received.

14. OPINIONS OF PROBABLE COST – OHM's preparation of Opinions of Probable Cost represent OHM's best judgment as a design professional familiar with the industry. The Owner must recognize that OHM has no control over costs or the prices of labor, equipment or materials, or over the contractor's method of pricing. OHM makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual cost.

15. JOB SITE SAFETY – Neither the professional activities of OHM, nor the presence of OHM or our employees and subconsultants at a construction site shall relieve the General Contractor or any other entity of their obligations, duties, and responsibilities including, but not limited to, construction means, methods, sequences, techniques or procedures necessary for performing, superintending or coordinating all portions of the work of construction in accordance with the contract documents and the health or safety precautions required by any regulatory agency. OHM has no authority to exercise any control over any construction contractor or any other entity or their employees in connection with their work or any health or safety precautions. The Owner agrees that the General Contractor is solely responsible for jobsite safety, and warrants that this intent shall be made clear in the Owners agreement with the General Contractor. The Owner also agrees that OHM shall be indemnified and shall be made additional insureds under the General Contractors general liability insurance policy.

16. DISPUTE RESOLUTION – In an effort to resolve any conflicts that arise during the design or construction of the project or following the completion of the project, the Owner and OHM agree that all disputes between them arising out of or relating to this Agreement shall be submitted to nonbinding mediation, unless the parties mutually agree otherwise.





VILLAGE OF DEXTER - COMMUNITY DEVELOPMENT OFFICE

8140 Main Street • Dexter, Michigan 48130-1092 • (734) 426-8303 • Fax (734) 426-5614

AGENDA 3-9-09  
ITEM L-5

MEMORANDUM

TO: Village Council and President Keough  
FROM: Allison Bishop, AICP, Community Development Manager  
DATE: February 23, 2009  
RE: Mill Creek Park Funding and Costs Estimates

Attached is a spreadsheet of the total project cost for Phase 1 and revised cost scenarios based on potential elements that could be removed from the project. This spreadsheet is provided only to represent the elements of the project and the associated costs. At this point it is difficult to determine what elements will be funded and what elements will not be funded without having a total project cost to design too.

It is recommended that Council determine how much they would like to allocate to the project and we will design and plan accordingly. It is very difficult to determine what can be accomplished without having a funding limitation.

Please note that there are various considerations that are evaluated when reviewing a grant application, including but not limited to, % match, per capita request, how project meets the goals of the MNRTF Board. I have included portions of the grant application booklet to help Council understand the scoring criteria, where the Village could possibly score and an example of the project scope cost estimate requirements (pages 21, 33-36)

All of these factors should be considered when determining the Village's financial commitment to the park development.

Please note that cost estimates per park element correlate by # to the map provided.

ASSUMPTIONS

- \$100,000 budgeted in FY 09-10 for design engineering
- DDA to complete a portion of the Jeffords Street reconstruction in summer 2009.
- MDEQ permits granted. Possibly wetland and floodplain, TBD.
- NO STIMULUS FUNDING

ADDITIONAL CONSIDERATIONS

- Landscaping and signage are not critical elements and could be scaled back.
- Interpretive signage is important to funders, particularly if education is a goal of the grant.
- Finishing elements, i.e. stone seating area, landscaping and signage, that may be removed from a phase will require additional work/funding in the future.

## FUNDING SOURCES

### GRANTS

- MNRTF (Michigan Natural Resources Trust Fund)
  - \$500,000 maximum request
  - 25% minimum match
  - Funding Goals – Trails, Riparian Buffers, Fishing Docks
  - Recommended request \$500,000, recommended match \$225,000
  
- Inland Fisheries
  - \$50,000
  - 50% minimum match
  - Funding to rehabilitate inland fisheries and encourage education and interpretation
  - Recommended request \$50,000, recommended match \$25,000
  
- Waterways Program
  - No Maximum
  - 50% minimum match
  - Funding for boat access
  - Recommended request \$10,000, recommended match \$10,000
  
- NOAA (National Oceanic and Atmospheric Administration)
  - \$1.5 million minimum to \$30 million maximum
  - Match - None Required, although match increases competitiveness
  - Dam removal restoration, fish passage, habitat restoration
  - Funding request would have to include restoration of the entire length of the stream bank to achieve a \$1.5 million + project.

### VILLAGE FUNDING

- General Fund / Grant Matching Funds
- GO Bond
- DDA ?
- Restricted Parks
- Trees/Landscaping
- Remaining Funding from Mill Creek Sedimentation/Main Street Bridge Project

### FUNDING LIMITATIONS

Grant matches typically cannot be previous expenditures.

## **RECOMMENDATIONS**

I am continuing to work with JJR to refine cost estimates and evaluate implications of eliminating elements, construction phasing and pathway types. Once Council has established a funding limit an application can be prepared requesting funding for grant eligible elements and a match can be established.

I have started to prepare the project narrative for the grant application, however portions cannot be completed until Council commits to a funding amount. I do not expect that to occur until the March 23<sup>rd</sup> meeting, which would still allow time to complete and submit the application prior to April 1<sup>st</sup>.

I have prepared a DRAFT resolution that Council will be required to adopt that will authorize the MNRTF application AND state the Village's funding commitment. Please review the resolution and provide me with any amendment so that I may prepare the final resolution for Council consideration.



# VILLAGE OF DEXTER

8140 Main Street • Dexter, Michigan 48130-1092 • (734) 426-8303 • Fax (734) 426-5614

**VILLAGE OF DEXTER  
WASHTENAW COUNTY, MICHIGAN  
RESOLUTION APPROVING MNRTF GRANT APPLICATION FOR  
MILL CREEK PARK DEVELOPMENT**

WHEREAS, removal of the Main Street bridge dam has drained the Mill Pond and created land for the development of a park along the Mill Creek within the Village of Dexter; and

WHEREAS, the Village of Dexter has adopted a Master Plan for development of the Mill Creek Park; and

WHEREAS, the Village received public input on both the development of the Master Plan and the MNRTF Grant Application; and

WHEREAS, development of the park is part of a larger regional trail system; and

WHEREAS, the proposed park improvements meet the 2009 Priority Project Types of the MNRTF Board, including Trail and Greenways Development and Projects within an Urbanized Cluster; and

WHEREAS, the proposed development will provide universally accessible, safe, enjoyable, passive recreation opportunities; and

BE IT RESOLVED, that the Village of Dexter Council does hereby approve the submittal of the MNRTF grant application titled Mill Creek Park Development for funding consideration and authorizes Community Development Manager Allison Bishop to sign application documents.

BE IT FURTHER RESOLVED, that, upon approval of the grant application, the Village of Dexter commits to financing the Mill Creek Park Development project, as specified in the MNRTF application, including a local project match of \$ \_\_\_\_\_ or \_\_\_\_\_% of the total project cost of \$ \_\_\_\_\_. The local match shall consist of \$ \_\_\_\_\_ in cash and \$ \_\_\_\_\_ other.

MOVED BY: \_\_\_\_\_ SUPPORTED BY: \_\_\_\_\_

YEAS: \_\_\_\_\_

NAYS: \_\_\_\_\_

RESOLUTION DECLARED ADOPTED THIS 23<sup>rd</sup> DAY OF March 2009.

State of Michigan, County of Washtenaw

I, Carol Jones, Clerk of the Village of Dexter do hereby certify that the foregoing resolution was duly adopted by the Village of Dexter Council at the regular meeting held March 23, 2009 and in on file in the Village Offices.

\_\_\_\_\_  
Carol Jones, Village Clerk

\_\_\_\_\_  
Shawn Keough, Village President

Mill Creek Park Recreation Master Plan  
Phase 1 - Estimating (AB)  
2/23/2009  
Description

ASSUMES ENGINEERING DESIGN COMPLETED FY 09-10/CONSTRUCTION FY 10-11

	Quantity	SCENARIO 1 TOTAL \$1 Million	SCENARIO 2 TOTAL \$850,000	SCENARIO 3 TOTAL \$650,000	Total Cost	
<b>Village Waterfront and Warrior Park Enlargement Plan</b>						
<b>2- Stone Seating Area</b>						
Earthwork	2,000 CYD	\$20,000			\$20,000	Fill- 60' x 80' long x 10' deep
Rock Outcroppings	150 Ton	\$30,000			\$30,000	550 LFT
Plaza Pavement	700 SFT	\$14,000			\$14,000	Precast pavers on gravel base
Electrical Supply	Allowance	\$10,000			\$10,000	
Topsoil	150 CYD	\$3,000			\$3,000	6" deep
Landscape Plantings and Restoration	Allowance				\$6,000	Trees, shrubs and lawn
Engineering and Contingency (10% & 10%)		\$15,400			\$24,900	
<b>Total Stone Seating Area</b>		<b>\$92,400</b>	<b>\$0</b>	<b>\$107,900</b>	<b>\$107,900</b>	
<b>3C- Concrete Walks (Various Widths) Reduced by 50%</b>						
Earthwork	70 CYD	\$350		\$350	\$350	
Concrete Pavement	5,300 SFT	\$11,600		\$11,600	\$11,600	4" thick unreinforced on base
Restoration	Allowance	\$250		\$250	\$250	
Contingency (10%)				\$1,220	\$3,660	
Engineering (10%)		\$2,440		\$1,220		
<b>Total Concrete Walks</b>		<b>\$14,640</b>	<b>\$14,640</b>	<b>\$14,640</b>	<b>\$15,860</b>	
<b>4- Storm Water Treatment Wetlands (Optional)</b>						
Earthwork	2,500 CYD	\$25,000			\$25,000	Cut 3 feet over 0.5 acres
Seeding	1 Acre	\$4,000			\$4,000	
Bird Boxes/Nesting Platforms	3 Each			\$150	\$150	Bluebird, bat and wood duck boxes
Landscape Plantings	Allowance			\$7,000	\$7,000	Shrubs and small trees
Stabilized Wetland Outlet Swale	Allowance	\$1,000		\$1,000	\$1,000	Rocks swale
Interpretive Sign	2 Each	\$4,000		\$4,000	\$4,000	
Engineering and Contingency (10% & 10%)		\$6,800			\$12,345	
<b>Total Storm water Treatment Wetlands</b>		<b>\$40,800</b>	<b>\$0</b>	<b>\$53,495</b>	<b>\$53,495</b>	
<b>5- Storm Water Feature</b>						
Pipe Extensions	200 LFT	\$6,600		\$6,600	\$10,000	Various diameter pipe sizes
Drainage Structure	3 Each	\$6,000		\$6,000	\$9,000	Manholes at existing pipe outlets
Dry Stream Channel	175 LFT	\$17,160		\$17,160	\$26,000	Rock lined
Interpretive Sign	3 Each	\$6,000		\$6,000	\$6,000	
Contingency (10%)		\$7,152		\$3,576	\$15,300	
Engineering (10%)				\$3,576		
<b>Total Storm water Feature</b>		<b>\$42,912</b>	<b>\$42,912</b>	<b>\$42,912</b>	<b>\$66,300</b>	
<b>6- Boardwalk (WALKWAY BASED ON TYPE CHOSEN ASPHALT/CONCRETE/BOARDWALK)</b>						
Timber Structure with Recycled Decking Products (10 Feet Wide)	5,800 SFT	\$362,500		\$362,500	\$362,500	725 LFT Simple Construction
Wire Mesh Railing with Wood Frame	120 LFT	\$6,000		\$6,000	\$6,000	Along edge of Mill Creek
Interpretive Sign	2 Each	\$4,000		\$4,000	\$4,000	
Contingency (10%)				\$37,250	\$111,750	
Engineering (10%)		\$74,500		\$37,250		
<b>Total Boardwalk</b>		<b>\$447,000</b>	<b>\$447,000</b>	<b>\$447,000</b>	<b>\$484,250</b>	

**7. Boardwalk Platform (2 Locations) REMOVED ONE WARRIOR CREEK**

Timber Structure with Recycled Decking Products (8 Feet Wide)	1,200 SFT	\$40,000		\$40,000	\$60,000	Constructed same as Boardwalks
Wire Mesh Railing with Wood Frame	80 LFT	\$2,640		\$2,640	\$4,000	
Interpretive Sign	4 Each	\$8,000			\$8,000	
Bench	8 Each			\$4,000	\$4,000	simple wood bench
Litter Receptacle	3 Each	\$800		\$800	\$800	low budget cans
Contingency (10%)		\$10,288		\$4,744	<u>\$23,040</u>	
Engineering (10%)				\$4,744		
<b>Total Boardwalk Platform</b>		<b>\$61,728</b>	<b>\$61,728</b>	<b>\$56,928</b>	<b>\$99,840</b>	

**8. Canoe/Kayak Access Point (2 Locations)**

Earthwork	60 CYD	\$600		\$600	\$600	Cut 2 feet, 1/2 each location
Gravel Surface	1,000 SFT	\$1,300		\$1,300	\$1,300	8" deep with geotextile fabric, 1/2 each location
Rock Outcropping	30 Ton	\$6,000		\$6,000	\$6,000	1/2 each location
Contingency (10%)		\$790		\$790	<u>\$2,370</u>	
Engineering (10%)		\$790		\$790		
<b>Total Canoe/Kayak Access Point</b>		<b>\$9,480</b>	<b>\$9,480</b>	<b>\$9,480</b>	<b>\$10,270</b>	

**9. Riparian Buffer Zone REMOVED 1400 SF WARRIOR CREEK**

Earthwork	2,500 CYD			\$10,000	\$25,000	Cut- 2 foot cut to create habitat shelf
Topsoil	800 CYD	\$6,400		\$6,400	\$16,000	
Landscape Plantings	Allowance			\$24,000	\$60,000	Trees, shrubs, native seeding, erosion control blanket
Bank Stabilization/Habitat Development	2,400 LFT	\$96,000		\$96,000	\$240,000	Both Sides of Creek in Village Waterfront
Rock Outcroppings	50 Ton	\$4,000		\$4,000	\$10,000	4 locations
Interpretive Signage	2 Each	\$4,000		\$4,000	\$4,000	
Contingency (10%)		\$14,440		\$14,440	<u>\$106,500</u>	
Engineering (10%)		\$14,440		\$14,440		
<b>Total Riparian Buffer Zone</b>		<b>\$173,280</b>	<b>\$173,280</b>	<b>\$173,280</b>	<b>\$461,500</b>	

**10. Unmowed Slopes EARTHWORK REMOVED BDA**

Earthwork	5,500 CYD	\$55,000			\$55,000	Fill- 10' x 30' x 500' long
Topsoil	400 CYD	\$8,000			\$8,000	
Native Seed Mix	0.5 Acre	\$2,500		\$2,500	\$2,500	
Erosion Control Blanket	0.5 Acre	\$2,500		\$2,500	\$2,500	
Rock Outcropping	70 Ton	\$14,000		\$14,000	\$14,000	7 locations
Landscape Plantings	Allowance			\$5,000	\$5,000	Trees and shrubs
Contingency (10%)		\$16,400		\$2,400	<u>\$26,100</u>	
Engineering (10%)		\$2,400		\$2,400		
<b>Total Unmowed Slopes</b>		<b>\$98,400</b>	<b>\$98,400</b>	<b>\$28,800</b>	<b>\$113,100</b>	

**11. Lawn Area**

Earthwork - Fill	2,500 CYD	\$25,000			\$25,000	Fill- Expand capped contaminated sediment area
Earthwork - Cut	4,600 CYD	\$46,000			\$46,000	Cut- Floodplain Area 3 feet deep 65' x 650' long
Topsoil	1,900 CYD	\$38,000			\$38,000	6" deep
Lawn Seed Mix	2.4 Acre	\$7,200		\$7,200	\$7,200	
Erosion Control Blanket	2.4 Acre	\$10,500		\$10,500	\$10,500	
Rock Outcropping	40 Ton	\$8,000		\$8,000	\$8,000	
Landscape Plantings	Allowance			\$10,000	\$10,000	Trees and few shrubs
Contingency (10%)				\$3,570	<u>\$43,410</u>	
Engineering (10%)		\$26,940		\$3,570		
<b>Total Lawn Area</b>		<b>\$161,640</b>	<b>\$161,640</b>	<b>\$42,840</b>	<b>\$188,110</b>	

\$228,564 in design and engineering (ESTIMATE)

<b>Total Cost of Improvements</b>	<b>\$1,142,280</b>	<b>\$1,009,080</b>	<b>\$977,275</b>	<b>\$1,600,625</b>
-----------------------------------	--------------------	--------------------	------------------	--------------------

- Land acquisition costs
- **Costs associated with the estimation of construction costs, such as consultant fees**
- Costs incurred prior to grant award

**Development Project Cost Estimate Table**

Obtain a reasonable estimate for the facilities you plan to construct with grant funds by consulting with engineering firms, other communities, and equipment manufacturers. List each project scope item (parking lot, picnic shelter, etc.) and its estimated cost in this table. Specify sizes and quantities where appropriate (length of trail, number of picnic tables, etc.) for each scope item. Do not list the aspects of project execution, such as labor, construction equipment, or raw materials. If there are more than ten scope items, make a copy of the page.

Include in the table the cost to hire a licensed engineer, architect, or landscape architect (the Prime Professional) to prepare all plans, specifications, and bid documents. The Prime Professional will also be required to sign all requests for reimbursement, including the final request, verifying that all construction was completed according to acceptable standards. Engineering costs for these services, up to 15 percent of the project cost, are eligible for reimbursement.

♿ Identify in the table which scope items are designed to be universally accessible.

DEVELOPMENT PROJECT SCOPE				
SCOPE ITEMS	♿ IS SCOPE ITEM OF UNIVERSAL ACCESS DESIGN?		SIZE OR QUANTITY	COST
	NO	YES		
1. Softball Fields	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	\$95,000
2. Lighting for Softball Fields	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	\$100,000
3. 10-car parking lot, paved	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	\$10,000
4. Renovations to make restroom accessible	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	\$35,000
5. Picnic Area (see attached sheet)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	\$10,000
Permit Fees				\$500
			<b>Subtotal</b>	<b>\$250,500</b>
			<b>Engineering (15%)</b>	<b>\$37,600</b>
			<b>Total Estimated Cost</b>	<b>\$288,100</b>

When needed, provide a further breakdown of the costs that make up individual scope items on a separate sheet of paper. For example, for the picnic area the breakdown might be:

BREAKDOWN OF PICNIC AREA COSTS (SCOPE ITEM #2)			
SCOPE ITEM ELEMENTS	♿ IS ELEMENT OF UNIVERSAL ACCESS DESIGN?		COST
	NO	YES	
10 picnic tables @ \$600 each:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$6,000
6 grills @ \$250 each:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$1,500
4 trash containers @ \$125 each:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$500
Access routes and concrete pads	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$2,000

## CHAPTER 4: APPLICATION SCORING CRITERIA

There are ten core criteria for evaluating development applications and nine core criteria for evaluating acquisition applications. In addition, the MNRTF Board has chosen three priority project types to be used to score 2009 applications to the MNRTF Program. An application may only earn points under one of the priority project types. All core criteria and priority project types are listed below, along with a brief description of the factors used to score each one.

For more detailed information on the application scoring criteria, we encourage you to request and review a copy of the evaluation worksheet used by Grants Management to score recreation grant applications. You may want to use it to evaluate your own application to look for opportunities to improve it before submitting it to the Department.

Applications will be scored based on the specific information provided in the application. In most cases, Grants Management staff will also visit a site as part of the application evaluation process. While staff tries to visit as many sites as possible, do not rely on site visits as a way to communicate project information to us.

### Development Application Scoring Criteria

<b>1. NEED FOR PROJECT</b>	
A. Rationale for the Project—The proposed project is consistent with the community/state recreation plan's goals and objectives and is adequately justified in terms of the need for additional facilities of the type proposed and the availability of the proposed type of facility in the region was evaluated (as appropriate).	20
B. Collaboration—The plan (or application) was developed through collaboration with stakeholders that may include adjacent communities, non-profit organizations, user groups, and other entities as appropriate.	20
C. Public Support—The application/recreation plan demonstrates that the proposed project is widely supported in the community/region. Also, there is minimal public opposition to the proposed project or applicant is working to address the concerns. Opposition based primarily on the desire to keep the public from the state's natural resources will not be considered.	20
<b>Maximum Possible Points (A + B + C)</b>	<b>60</b>
<b>2. SITE AND PROJECT QUALITY</b>	
A. Ability to Get to the Site—The amount of directional signage is adequate for the type of park. The park site is easily recognized as a public park or outdoor recreation land. The park can be directly and safely accessed and is appropriately located for the type of project. For urban projects, site is on a public transportation route.	20
B. Compatibility—Site is compatible with its intended purpose and the proposed site design. Site design is clear and understandable.	20
C. Renovation--Project involves renovation or redevelopment at an existing park site. Renovation projects needed as a result of inadequate maintenance or design do not qualify for these points.	20
D. Use of Environmentally Friendly Materials and Innovative Technology	20

E. Crime Prevention Measures—Potential crime issues have been addressed.	20
F. Programming/Marketing—The applicant has addressed how they will make the public aware of the project.	20
<b>Maximum Possible Points (A + B + C + D + E + F)</b>	<b>120</b>
<b>3. APPLICANT HISTORY</b>	
A. Per capita <u>development</u> grant assistance (MNRTF, LWCF, Recreation Bond Fund, CMI) received by the applicant in the past 20 years exceeds the median value awarded to all communities over the past 20 years (excluding withdrawn projects).	0
B. Per capita <u>development</u> grant assistance (MNRTF, LWCF, Recreation Bond Fund, CMI) received by the applicant in the past 20 years is less than the median value awarded to all communities over the past 20 years (excluding withdrawn projects).	20
C. Applicant has not received a <u>development</u> grant from the recreation grant program in the past 20 years (MNRTF, LWCF, Recreation Bond Fund, CMI).	40
D. Compliance with Program Procedures—the applicant is in compliance with all requirements at park sites that have been <u>acquired or developed</u> with recreation grant assistance in the past—including signage requirements (waived for MNRTF projects until signs are available). Also, the applicant has complied with Department procedures while completing grant-assisted projects ( <u>acquisition and development</u> ) awarded in the past 6 years. Give points if the applicant has never received a grant.	10
E. Applicant has not closed, sold, or otherwise transferred use or control of <u>any</u> park or recreation facility for non-public recreation purposes within the past 5 years; OR applicant has closed, sold, or otherwise transferred use or control of any park or recreation facility for non-public recreation purposes within the past 5 years but has provided a compelling reason for the action OR applicant has completed mitigation.	10
F. Applicant has a formal recreation department/DNR division or parks committee.	10
<b>Maximum Possible Points (A or B or C) + D + E + F</b>	<b>70</b>
<b>4. NATURAL RESOURCE BASED RECREATION OPPORTUNITIES</b>	
Examples: -- Hunting    -- Nature observation/interpretation -- Fishing    -- Water access (boating, swimming, etc.)	
A. Project proposes the highest quality natural resource based recreation opportunities or will provide an opportunity that is rare or nonexistent in the applicant's service area.	40
B. Project proposes good quality natural resource based recreation opportunities or will provide highest quality opportunities that are already present in the applicant's service area.	20
C. Project proposes fair quality natural resource based recreation opportunities or will provide good quality opportunities that are already present in the applicant's service area.	10
<b>Maximum Possible Points (A or B or C)</b>	<b>40</b>

### 5. FINANCIAL NEED OF THE APPLICANT

A. Upper one-third median household income (greater than \$44, 667)*	0
B. Middle one-third median household income (\$35,735 - \$44,667)*	20
C. Lowest one-third median household income (up to \$35,734)*	40
*Grant Coordinator may consider the median household income of the population to be served by the proposed project in lieu of the applicant's MHI	
<b>Maximum Possible Points (A or B or C)</b>	<b>40</b>

\$50,510

### 6. URBAN AREA RECREATION OPPORTUNITIES (parks within urban boundaries as defined by the U.S. Census Bureau)

A. Park is within the political boundaries of a core or inner ring city for a Metropolitan Statistical Area.	40
B. Park is within the Urbanized Area for a Metropolitan Statistical Area	30
C. Park is within the political boundaries of a core city for a Micropolitan Statistical Area	20
D. Park is within an Urbanized Cluster--areas surrounding the core city of a Micropolitan Statistical Area or other, smaller communities defined as Urban Clusters.	10
<b>Maximum Possible Points (A or B or C or D)</b>	<b>40</b>



### 7. APPLICANT MATCH

Local Match Percentage	Top ~2% Median Household Income*	Top 1/3 <sup>rd</sup> MHI	Middle 1/3 <sup>rd</sup> MHI	Bottom 1/3 <sup>rd</sup> MHI
0-25%	0	0	0	0
26-29%	0	0	5	10
30-39%	0	5	10	20
40-49%	5	10	20	30
50%+	10	20	30	40

\* Those communities with Median Household Income values greater than \$80,000

<b>Maximum Possible Points</b>	<b>40</b>
--------------------------------	-----------

### 8. ENTRANCE FEES

A. Entrance fees in place with no waiver	0
B. Entrance fees in place with partial or full waiver but effectiveness in bringing people with low incomes into the park is questionable; OR Park entrance fees are waived, reduced, or by-donation-only on a regular basis for all users.	15

C. No entrance fees; OR Site is readily accessible by methods other than the automobile (applicant must demonstrate this through site records or other means) and there is no entrance fee when using these alternative methods to get to the park (e.g., public transportation, bicycle, walk-in); OR Entrance fees in place with partial or complete waiver available and applicant can demonstrate that the waiver policy is effective in bringing people with low incomes into the park	30
<b>Maximum Possible Points (A or B or C)</b>	<b>30</b>
<b>9. UNIVERSAL DESIGN</b>	
A. The applicant obtained information on persons with disabilities in their community or the state and gathered comments regarding recreation interests and accessibility needs. The applicant has documented how the ideas/suggestions gathered from the public input process influenced the design of the proposed project.	10
B. The proposed project demonstrates the incorporation of universal design. Any previously-existing support facilities comply with ADA requirements.	20
<b>Maximum Possible Points (A + B)</b>	<b>30</b>
<b>10. OIL AND GAS IMPACTED AREAS</b>	
A. 1-50 wells	10
B. 51-300 wells	15
C. Over 300 wells	20
<b>Maximum Possible Points (A or B or C)</b>	<b>20</b>
<b>TOTAL POSSIBLE POINTS UNDER CORE DEVELOPMENT CRITERIA 1-10</b>	<b>490</b>

## Acquisition Application Scoring Criteria

<b>1. NEED FOR PROJECT</b>	
A. Rationale for the Project—The proposed project is consistent with the community/state recreation plan's goals and objectives and is adequately justified in terms of the need for additional protection of its natural resources and the public's right to access the site.	20
B. Collaboration—The plan (or application) was developed through collaboration with stakeholders that may include adjacent communities, non-profit organizations, user groups, and other entities as appropriate.	20
C. Public Support—The application/recreation plan demonstrates that the proposed project is widely supported in the community/region. Also, there is minimal public opposition to the proposed project or applicant is working to address the concerns. Opposition based primarily on the desire to keep the public from the state's natural resources will not be considered.	20
<b>Maximum Possible Points (A + B + C)</b>	<b>60</b>

- KEY:**
- ① **Jefferson Street / DOA Walkway and Plaza**
    - Concrete Walk
    - Special Paving
    - Stone Steps
    - Stone Retaining Wall
    - Benches / Light Fixtures
    - Landscaping and Irrigation
  - ② **Stream Bedding Area**
    - Permeable Rock / Cobble / Gravel
    - Performance Area - Special Paving
    - Electricity
    - Light
  - ③A **ADA Ramp**
    - Concrete Walk - 15 Feet Wide
    - Ramps and Landings @ 8% Max Grade
    - Handrails
  - ③B **ADA Ramp**
    - Concrete Walk - 15 Feet Wide
    - Ramps and Landings @ 8% Max Grade
    - Handrails
    - Retaining Walls
    - Plant Large Oak Trees on Slope
  - ③C **Concrete Walk**
    - Rethink Vary
    - On-Grade Installation
  - ④ **Stormwater Treatment Area (Optional)**
    - Permeable Concrete Discharge Treatment
    - Plant Selection / Wetland Vegetation
    - Interpretive Signage
  - ⑤ **Stormwater Feature**
    - Culvert Pipe Outlets
    - Rock Lined Dry Creek Bed
    - Interpretive Signage
  - ⑥ **Streambank**
    - Pressure Treated / Recycled Decking - 8 Feet Wide
    - Railing at Creek Edge Only
    - Highly Elevated for Pedestrian Conveyance
    - Interpretive Signage
    - Benches
  - ⑦ **Streambank Platform**
    - Pressure Treated w/ Railing
    - Benches and Light Fixtures
    - Fishing and Wildlife Viewing
    - Interpretive Signage
  - ⑧ **Catch/Key Access Point**
    - Gravel Lanes
    - Rock Overlays for Visual Access
  - ⑨ **Riparian Buffer Zone**
    - Native Trees and Shrubs
    - Streambank Rehabilitation / Habitat Enhancement
    - Rock Checkpoints for Water Access
    - Interpretive Signage

- ⑩ **Unmowed Slopes**
  - Native Upland Grasses and Forbs
  - Scattered Rock Outcroppings
  - Scattered Trees and Shrub Massings
  - Sweep Slopes
- ⑪ **Lawn Area**
  - Mowed Lawn
  - Scattered Rock Outcroppings
  - Scattered Trees and Shrub Massings
- ⑫ **Sloped Steps (Pavement) - Warrior Park**
  - Concrete
  - Handrails
  - Cobble Edge Between Steps and Drive
  - Street Retaining Wall East Side of Steps
- ⑬ **Previous Parking Lot - Warrior Park**
  - Pavement (Asphalt / Concrete, Asphalt)
  - Infiltration Stormwater Basin Below Pavement
- ⑭ **Plastic Shelter - Warrior Park**
  - 20' x 25' Farmers Market Style Architecture
  - Built - in Stone Fireplace
  - Electric
  - Drinking Fountain
  - ADA Accessible
- ⑮ **Restroom Structure (4 - Season Building) - Warrior Park**
  - 25' x 25' Farmers Market Style
  - All Utilities
  - ADA Accessible
- ⑯ **Play Apparatus - Warrior Park**
  - Multiple Elements
  - ADA Accessible
  - Safety Fall Material
  - Benches
- ⑰ **Mud - Oak Lawn Area - Warrior Park**
  - Ice Skating
  - Picnic
  - Booze
  - Informal Game Area
- ⑱ **Wood Platform w/Steps - Warrior Park**
  - Pressure Treated Structure on Concrete Piers
  - Railing and Landings
  - Benches
  - Linkage between Park and Farmers Market and Library
- ⑲ **Slope Restoration - Warrior Park**
  - Extensive Planting Program
  - Removal of Invasive Exotic and Non-Native Vegetation
  - Heavy Sapling Stabilization