

**CHARTER TOWNSHIP OF PLYMOUTH  
BOARD OF TRUSTEES MEETING**

Tuesday, June 14, 2016  
7:00 PM



- A. CALL TO ORDER** at \_\_\_\_\_ **P.M.**
- B. PLEDGE OF ALLEGIANCE TO THE FLAG**
- C. ROLL CALL:** Shannon Price\_\_\_\_\_, Nancy Conzelman\_\_\_\_\_, Chuck Curmi \_\_\_\_\_,  
Bob Doroshewitz \_\_\_\_\_, Ron Edwards \_\_\_\_\_, Mike Kelly \_\_\_\_\_,  
Steve Mann \_\_\_\_\_

**D. APPROVAL OF AGENDA**

Regular Meeting - Tuesday, June 14, 2016

**E. APPROVAL OF CONSENT AGENDA**

**E.1 Approval of Minutes:**

Special Meeting - Friday, May 27, 2016

**E.2 Acceptance of Utility Easements:**

**E.3 Acceptance of Communications, Resolutions, Reports:**

- i. Fire Department Report - May 2016
- ii. FOIA Report - May 2016
- iii. Building Department Report - May 2016
- iv. Set Date for Public Hearing for July 19, 2016 - First Amendment to Consent Judgment - Applied Fitness Solutions

**E.4 Approval of Township Bills:**

		<b>Year 2016</b>
General Fund	(101)	\$1,162,316.26
Solid Waste Fund	(226)	123,680.30
Improvement Revolving Fund (Capital Projects)	(246)	41,199.77
Drug Forfeiture Fund	(265)	1,322.40
Golf Course Fund	(510)	16,777.68
Senior Transportation	(588)	-0-
Water and Sewer Fund	(592)	781,608.53
Trust and Agency Fund	(701)	156.75
Police Bond Fund	(702)	5,749.00
Tax Fund	(703)	61,942.91
Special Assessment Fund	(805)	36,821.09
<b>Total:</b>		<b>\$2,245,814.93</b>

**CHARTER TOWNSHIP OF PLYMOUTH  
BOARD OF TRUSTEES MEETING**

Tuesday, June 14, 2016  
7:00 PM



**F. PUBLIC COMMENTS AND QUESTIONS**

**G. PUBLIC HEARING**

- 1) Request for Board Action - Jogue, Inc., Application for Industrial Facilities Tax Exemption Certificate - **Resolution 2016-06-14-13**
- 2) Request for Board Action - Hearing of Necessity - Sidewalk Repair Program 2016 - **Resolution 2016-06-14-15**
- 3) Request for Board Action - Plymouth Commons Road Rehabilitation Special Assessment District - Confirm Assessment Roll - **Resolution 2016-06-14-14**

**H. COMMUNITY DEVELOPMENT**

**I. UNFINISHED BUSINESS**

- 1) Request for Board Action - Amendment to the Parks and Playground Areas Ordinance - 2nd Reading

**J. NEW BUSINESS**

- 1) Request for Board Action - Bid Award for 2016 Sidewalk Program
- 2) Request for Board Action - Bid Award - Plymouth Commons Subdivision Road Rehabilitation SAD
- 3) Request for Board Action - Approve Agreement with City of Plymouth re: Payment of Retiree Medical
- 4) Request for Board Action - Update on status of settlement with County
- 5) Request for Board Action - Bid Award for Roof Painting Project
- 6) Request for Board Action - Water and Sewer Rates beginning July 1, 2016
- 7) Request for Board Action - Bid Award - Saw Grant

**K. SUPERVISOR AND TRUSTEE COMMENTS**

**L. PUBLIC COMMENTS**

**M. ADJOURNMENT**

PLEASE TAKE NOTE: The Charter Township of Plymouth will provide necessary reasonable auxiliary aids and services, such as signers for the hearing impaired and audio tapes of printed materials being considered at all Township Meetings, to individuals with disabilities at the Meetings/Hearings upon two weeks notice to the Charter Township of Plymouth by writing or calling the following: Human Resource Office, 9955 N Haggerty Road, Plymouth, MI 48170. Phone number (734) 354-3202 TDD units: 1-800-649-3777 (Michigan Relay Services)



**CHARTER TOWNSHIP OF PLYMOUTH  
BOARD OF TRUSTEES  
SPECIAL MEETING  
FRIDAY, MAY 27, 2016**

**PROPOSED MINUTES**

Supervisor Price called the meeting to order at 8:15 a.m. and led in the Pledge of Allegiance to the Flag.

**MEMBERS PRESENT:** Shannon Price, Supervisor  
Nancy Conzelman, Clerk  
Ron Edwards, Treasurer  
Charles Curmi, Trustee  
Robert Doroshewitz, Trustee  
Steve Mann, Trustee

**MEMBERS ABSENT:** Michael Kelly, Trustee, Excused

**OTHERS PRESENT:** Dan Phillips, Fire Chief  
Alice Geletzke, Recording Secretary  
14 Members of the Public

**D. APPROVAL OF AGENDA**  
Special Meeting – May 27, 2016

Moved by Ms. Conzelman and seconded by Mr. Edwards to approve the agenda for the Board of Trustees special meeting of May 27, 2016. Ayes all.

**E. PUBLIC COMMENTS**

Ed Haggerty expressed dissatisfaction with the actions of the Board.

**F. APPROVE MINUTES**  
1) Regular Meeting, May 17, 2016

Moved by Ms. Conzelman and seconded by Mr. Edwards to approve the minutes of the regular meeting of May 17, 2016.

AYES: Conzelman, Edwards, Mann, Price  
NAYS: Curmi, Doroshewitz

Motion carried.

**G. UNFINISHED BUSINESS**

1) Request for Board Action – Approve Bills

Moved by Mr. Edwards and seconded by Mr. Mann to approve the bills as presented, in the amount of \$1,388,528.18.

**CHARTER TOWNSHIP OF PLYMOUTH  
BOARD OF TRUSTEES  
SPECIAL MEETING  
FRIDAY, MAY 27, 2016**

**PROPOSED MINUTES**

AYES: Edwards, Mann, Conzelman, Curmi, Price  
NAYS: Doroshewitz

Motion carried.

**H. ADJOURNMENT**

Moved by Mr. Edwards and seconded by Mr. Mann to adjourn the meeting at 8:35 a.m. Ayes all.

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Nancy C. Conzelman, Township Clerk

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Shannon G. Price, Township Supervisor

**CHARTER TOWNSHIP OF PLYMOUTH**  
**DEPARTMENT OF BUILDING & CODE ENFORCEMENT**



**MONTHLY REPORT**

**May**  
**2016**



## New Commerical Building for 2016

Company Name	Property Address	Type of Work	Construction Value	Status	Month
Plymouth Haggerty Associates	9835 Haggerty RD	New medical building	200,000	Issued	February
Plymouth Haggerty Associates	41504 Ann Arbor Rd	New retail building	400,000	Issued	March
Bosch	15000 Haggerty	New chemical building	500,000	Issued	March
Total Construction Value			1,100,000		

## New Commercial Additions/Alterations for 2016

Company Name	Property Address	Type of Work	Construction Value	Status	Month
Hella N America	43811 Plymouth Oaks	bathroom remodel	30,000	Issued	January
Troy Design & Manufacturing	14425 Sheldon	computer room	350,000	Issued	January
Bosch	15000 Haggerty	solar array	200,000	Issued	January
Vacant	45550 Commerce Center	Phase I, underground	150,000	Issued	January
NewU	41300 Joy RD	warehouse door	100,000	Issued	January
Better Health	44427 Ann Arbor	demo 2 suites	6,000	Issued	January
Cequent Performance Products	47912 Halyard	Suite expansion	150,000	Issued	February
Building Bridges Therapy	46200 Port	Interior remodel	350,000	Issued	February
ATI Physical Therapy	44191 Plymouth Oak #800	Suite expansion	190,000	Issued	February
Mercy USA	44450 Pintetree 201	Interior remodel	63,000	Issued	February
1000 Degree Pizza	41576 Ann Arbor RD	Tenant finish	80,000	Issued	March
Michigan Manufacturing Tech	45501 Helm	3 additions	950,000	Issued	March
Duckworth & Associates	14496 Sheldon #210	Tenant finish	64,139	Issued	March
Better Health	44427 Ann Arbor RD	Tenant finish	160,000	Issued	April
Federal Mogul	47001 Port ST	Remodel & addition	6,939,000	Issued	April
Constellium	45550 Commerce Center	Tenant finish	1,500,000	Issued	April
QQ Nails	47325 Five Mile	Tenant finish	30,000	Issued	April
Argent International	41016 Concept	Interior remodel	130,000	Issued	April
Hella N America	43811 Plymouth Oaks	Lab expansion	142,000	Issued	April

Company Name	Property Address	Type of Work	Construction Value	Status	Month
Brugola	45555 Port	Remodel & addition	99,000	Issued	April
Secure 24	44675 Helm	Interior remodel	3,500	Issued	April
Troy Design & Manufacturing	14425 Sheldon	Phase II remodel	1,200,000	Issued	May
Zack's	9468 Main	Parking lot	30,000	Issued	May
TRAM	47200 Port	20 additional parking	48,920	Issued	May
TGR	47050 Port	7 additional parking	15,000	Issued	May
Troy Design & Manufacturing	14425 Sheldon	Crane, piers, columns	850,000	Issued	May
Total Construction Value			13,830,559		
Grand Total Construction Value			<u>14,930,559</u>		

## Residential Housing 2016

	<u>Single Family Detached</u>			
	<u>Total # Buildings</u>	<u>Total # Dwelling</u>	<u>Total Value Construction</u>	<u>Total Square Feet</u>
January	0			
February	0			
March	1	1	204,854	2,137
April	0			
May	2	2	599,305	5,308
June	0			
July	0			
August	0			
September	0			
October	0			
November	0			
December	0			
<b>Totals</b>	<b>3</b>	<b>3</b>	<b>\$ 804,159</b>	<b>7,445</b>

	<u>Single Family Attached (Townhouses/ Row Houses)</u>			
	<u>Total # Buildings</u>	<u>Total # Dwelling</u>	<u>Total Value Construction</u>	<u>Total Square Feet</u>
January	0			
February	0			
March	1	3	525,000	3,600
April	0			
May	0			
June	0			
July	0			
August	0			
September	0			
October	0			
November	0			
December	0			
<b>Totals</b>	<b>1</b>	<b>0</b>	<b>\$ 525,000</b>	<b>3,600</b>

	<u>Two-Family Buildings (Duplex)</u>			
	<u>Total # Buildings</u>	<u>Total # Dwelling</u>	<u>Total Value Construction</u>	<u>Total Square Feet</u>
January	0			
February	0			
March	0			
April	0			
May	0			
June	0			
July	0			
August	0			
September	0			
October	0			
November	0			
December	0			
<b>Totals</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>-</b>

	<u>Three-or-more Family Building (Apartments/Stacked Condos)</u>			
	<u>Total # Buildings</u>	<u>Total # Dwelling</u>	<u>Total Value Construction</u>	<u>Total Square Feet</u>
January	1	14	1,210,668	18,900
February	0			
March	0			
April	0			
May	0			
June	0			
July	0			
August	0			
September	0			
October	0			
November	0			
December	0			
<b>Totals</b>	<b>1</b>	<b>14</b>	<b>\$ 1,210,668</b>	<b>18,900</b>

	<u>Total # Buildings</u>	<u>Total # Dwelling</u>	<u>Value Construction</u>	<u>Square Feet</u>
<b>Totals all categories</b>	<b>5</b>	<b>17</b>	<b>\$ 2,539,827</b>	<b>29,945</b>

# Certificate of Occupancy List

06/03/2016

1/1

CofO Number	Status	Issued To	Address	CofO and Permit Dates	
<b>OF16-0035</b>	ISSUED (FINAL)	Duckworth & Associates	14496 SHELDON RD 210	<b>CO Date Apply:</b> 05/05/2016	<b>CO Date Finaled:</b> 05/05/2016
<b>Permit Number</b> PB16-0125	<b>Applicant Name</b> Mission Home Improvement		<b>Contractor</b> Mission Home Improvement	<b>Permit Date Apply:</b> 03/17/2016	<b>Permit Date Issued:</b> 3/22/2016
<b>OF16-0036</b>	ISSUED (FINAL)	Cequent Performace Products	47912 HALYARD	<b>CO Date Apply:</b> 05/05/2016	<b>CO Date Finaled:</b> 05/05/2016
<b>Permit Number</b> PB15-1076	<b>Applicant Name</b> Salzeider Inc		<b>Contractor</b> Salzeider Inc	<b>Permit Date Apply:</b> 12/28/2015	<b>Permit Date Issued:</b> 2/22/2016

All Records

Co.DateFinaled Between 5/1/2016 12:00:00 AM AND

5/31/2016 11:59:59 PM AND

Co.Status = ISSUED (FINAL)

Number of CofO's: 2



Certificates of Occupancy and Re-Occupancy  
Plymouth Township  
May 2016\*  
WTUA

Address	Business Name	Business	Type of work	Business Forms Given Out	
				Yes	No
47912 Halyard	Cequent Performance	remodel	Bench marking lab		X



# Revenue Breakdown Report

06/03/2016

Filter: All Records, Transaction.DateToPostOn in <Previous month> [05/01/16 - 05/31/16]

Unit Totals		
Unit Name	Records	Revenue
	205	79,736.00
<b>TOTAL</b>	<b>205</b>	<b>79,736.00</b>

Record Type Totals		
Unit:	Records	Revenue
Enforcement	2	200.00
Name	4	4,000.00
Permit	199	75,536.00
<b>UNIT TOTAL:</b>	<b>205</b>	<b>79,736.00</b>

Record Type Breakdowns		
Unit:	Records	Revenue
Record Type: Enforcement	2	200.00
<b>TOTAL:</b>	<b>2</b>	<b>200.00</b>

Record Type: Name	Records	Revenue
	4	4,000.00
<b>TOTAL:</b>	<b>4</b>	<b>4,000.00</b>

Record Type: Permit	Records	Revenue
Building	102	58,564.00
Electrical	36	7,970.00
Mechanical	39	5,238.00
Plumbing	22	3,764.00
<b>TOTAL:</b>	<b>199</b>	<b>75,536.00</b>

06/03/16

**Enforcement List Vacant Properties**

Address	Sid-well Number	Responsible Party	Date of Enforcement Action	Status Of Enforcement Action	Date Enforcement Closed
<b><u>VACANT BLD - RES</u></b>					
11246 41681 ANN ARBOR TR	R-78-060-99-0005-000		07/08/09	Insp. Scheduled	
11246 43916 JOY RD	R-78-059-03-0216-000		07/07/09	Recv'd Registration	
11246 40925 FIVE MILE	R-78-022-03-0613-000	Z & F Investments, INC	11/16/09	Complaint Filed	12/11/14
11246 11677 FRANCIS	R-78-027-01-0129-000		04/09/10	Insp. Completed	09/20/10
11246 42405 HAMMILL	R-78-017-03-0048-301	Rottell, Barbara Joann Trust	08/05/10	Recv'd Registration	03/13/14
11246 42036 MICOL	R-78-060-01-0029-700	Dennis Eaton	06/09/11	Violation Issued	
11246 12395 WHITE TAIL CT	R-78-039-03-0060-000		06/10/11	Recv'd Registration	
11246 9223 BROOKLINE	R-78-059-03-0576-000		10/07/11	Recv'd Registration	12/17/13
11246 11626 BUTTERNUT	R-78-027-01-0160-002		10/26/11	Recv'd Registration	01/16/14
11246 46096 FORESTWOOD	R-78-056-01-0169-000		11/01/11	No Violation	11/02/11
11246 8890 NORTHERN	R-78-059-03-0136-000	Rowe, Kimberly W	01/13/12	Recv'd Registration	
11246 46021 ANN ARBOR TR	R-78-036-99-0011-000	Ritchie, Craig & Joyce	03/09/12	Recv'd Registration	
11246 9024 TAVISTOCK	R-78-066-01-0111-000	Christiana Trust	04/06/12	Recv'd Registration	03/31/15
11246 46821 STRATHMORE	R-78-055-02-0007-000		07/19/12	Recv'd Registration	
11246 11677 FRANCIS	R-78-027-01-0129-000		08/06/12	Recv'd Registration	
11246 9440 NORTHERN	R-78-059-03-0167-000	Baczlo Properties, LLC	03/21/13	Recv'd Registration	
11246 11708 PACIOCCO CT	R-78-040-99-0010-702	Miller, Reed	08/05/13	Recv'd Registration	
11246 11432 MONA CT	R-78-064-04-0210-000	Five Brothers	08/13/13	Recv'd Registration	08/17/15
11246 9464 NORTHERN	R-78-059-03-0169-000	Hasimllari, Edmond	09/17/13		05/15/14

06/03/16

**Enforcement List Vacant Properties**

Address	Sid-well Number	Responsible Party	Date of Enforcement Action	Status Of Enforcement Action	Date Enforcement Closed
11246 40651 FIVE MILE	R-78-022-99-0002-001		10/15/13	Recv'd Registration	
11246 51077 PLYMOUTH RIDGE	R-78-047-01-0230-000		10/23/13	Recv'd Registration	
11246 11545 MAPLE RIDGE DR	R-78-045-04-0210-000	Coldwell Banker Real Estate	10/28/13	Insp. Scheduled	12/02/13
11246 11864 HAGGERTY	R-78-027-01-0001-002		10/28/13	Insp. Scheduled	
11246 41451 CRABTREE LN	R-78-017-02-0521-000		11/27/13	Recv'd Registration	
11246 44424 JOHN ALDEN	R-78-032-01-0001-001		02/12/14	Insp. Completed	02/12/14
11246 9081 ELMHURST	R-78-059-03-0486-002	Stile Homes LLC	03/14/14	Recv'd Registration	03/31/15
11246 9139 BRIARWOOD DR	R-78-066-02-0042-000	Can You Say Sold Realty	04/16/14	Recv'd Registration	
11246 44424 JOHN ALDEN	R-78-032-01-0001-001		04/30/14	1st Reg ltr sent	02/08/16
11246 13925 RIDGEWOOD	R-78-015-99-0003-000		04/30/14	Recv'd Registration	
11246 9464 NORTHERN	R-78-059-03-0169-000	Hasimllari, Edmond	04/30/14	Recv'd Registration	04/14/16
11246 11864 HAGGERTY	R-78-027-01-0001-002		05/14/14	Recv'd Registration	
11246 9037 NORTHERN	R-78-059-03-0201-000	Rupp, David	05/14/14	1st Reg ltr sent	
11246 40925 FIVE MILE	R-78-022-03-0613-000	Z & F Investments, INC	05/19/14	1st Reg ltr sent	01/15/15
11246 46643 ANN ARBOR TR	R-78-035-99-0006-006	National Field Network	07/11/14	Recv'd Registration	05/17/16
11246 42035 CLEMONS	R-78-020-02-0078-000	HUD/ IEI-Tidewater JV	07/24/14	Recv'd Registration	
11246 42405 HAMMILL	R-78-017-03-0048-301	Rottell, Barbara Joann Trust	07/28/14	No Violation	08/11/14
11246 49576 DONOVAN BLVD	R-78-041-02-0047-000	Freddie Mac	08/13/14	Recv'd Registration	
11246 9223 BROOKLINE	R-78-059-03-0576-000		09/04/14	Recv'd Registration	03/31/15
11246 9081 ELMHURST	R-78-059-03-0486-002	Stile Homes LLC	10/22/14	Resolved	10/30/14

06/03/16

**Enforcement List Vacant Properties**

Address	Sid-well Number	Responsible Party	Date of Enforcement Action	Status Of Enforcement Action	Date Enforcement Closed
11246 45952 CONCORD DR	R-78-036-04-0058-000	Keller Williams, Lloyd Odell	10/22/14	Recv'd Registration	
11246 9081 ELMHURST	R-78-059-03-0486-002	Stile Homes LLC	10/31/14	Closed	02/12/16
11246 51077 PLYMOUTH RIDGE	R-78-047-01-0230-000		11/03/14	Resolved	11/05/14
11246 40925 FIVE MILE	R-78-022-03-0613-000	Z & F Investments, INC	11/14/14	1st Reg ltr sent	01/14/15
11246 42082 OAK LANE	R-78-017-99-0033-001	Coldwell Banker Real Estate	01/16/15	Recv'd Registration	
11246 9037 NORTHERN	R-78-059-03-0201-000	Rupp, David	03/25/15	1st Reg ltr sent	
11246 42405 HAMMILL	R-78-017-03-0048-301	Rottell, Barbara Joann Trust	03/31/15	1st Reg ltr sent	
11246 9400 S MAIN	R-78-061-01-0003-000		03/31/15	2nd Notice	
11246 9223 BROOKLINE	R-78-059-03-0576-000		03/31/15	Closed	02/09/16
11246 46096 FORESTWOOD	R-78-056-01-0169-000		04/02/15	Insp. Scheduled	
11246 11545 MAPLE RIDGE DR	R-78-045-04-0210-000	Coldwell Banker Real Estate	07/23/15	Recv'd Registration	
11246 42834 JOY RD	R-78-061-05-0025-000	Marshall Mandell	09/11/15	Violation Issued	
11246 42035 CLEMONS	R-78-020-02-0078-000	HUD/ IEI-Tidewater JV	10/27/15	Recv'd Registration	
11246 11246 TERRY	R-78-063-01-0184-000	HUD/ IEI-Tidewater JV	11/23/15	Recv'd Registration	
11246 51077 PLYMOUTH RIDGE	R-78-047-01-0230-000		12/28/15	Recv'd Registration	
11246 42834 JOY RD	R-78-061-05-0025-000	Marshall Mandell	03/08/16	Recv'd Registration	05/17/16
11246 9024 TAVISTOCK	R-78-066-01-0111-000	Christiana Trust	04/25/16	Recv'd Registration	
11246 42834 JOY RD	R-78-061-05-0025-000	Marshall Mandell	05/17/16	Recv'd Registration	
11246 42480 PARKHURST	R-78-018-01-0046-000		05/17/16	1st Reg ltr sent	
11246 15102 MAPLEWOOD	R-78-017-07-0513-000	Coldwell Banker Preferred	05/18/16	Recv'd Registration	

06/03/16

**Enforcement List Vacant Properties**

Address

Sid-well Number

Responsible Party

Date of  
Enforcement  
Action

Status Of  
Enforcement  
Action

Date  
Enforcement  
Closed

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**Total: 59**

06/03/16

**Enforcement List Vacant Properties**

Address	Sid-well Number	Responsible Party	Date of Enforcement Action	Status Of Enforcement Action	Date Enforcement Closed
<b><u>VACANT BLD- COM</u></b>					
11246 1303 ANN ARBOR RD	R-78-059-03-0042-000	Gregg Shoner (Trustee)	07/07/09	Recv'd Registration	01/04/12
11246 40347 ANN ARBOR RD	R-78-066-99-0001-001	Newman Family Trust	07/07/09	Violation Issued	04/11/13
11246 14556 JIB	R-78-009-03-0096-002	Elizabeth Stanaj	07/07/09	Recv'd Registration	
11246 41220 JOY RD	R-78-065-99-0011-005	DT2	02/10/12	Resolved	02/21/13
11246 40700 ANN ARBOR RD	R-78-064-03-0154-000	Applied Fitness Solutions	03/25/13	Recv'd Registration	
11246 1492 SHELDON RD	R-78-057-99-0001-013	American Beauty Tanning & Nail	09/23/14	Insp. Completed	
11246 46501 COMMERCE CENT	R-78-011-99-0001-712		10/20/14		
11246 41220 JOY RD	R-78-065-99-0011-005	DT2	03/31/15	Recv'd Registration	

**Total: 8**

06/03/16

**Enforcement List Vacant Properties**

Address	Sid-well Number	Responsible Party	Date of Enforcement Action	Status Of Enforcement Action	Date Enforcement Closed
<b><u>VACANT PROP - CO</u></b>					
11246 JOY RD	R-78-061-99-0026-001	Bruce Gould	07/07/09	Recv'd Registration	05/07/10
11246 JOY RD	R-78-061-99-0027-001	Bruce Gould	07/07/09	Violation Issued	06/14/11
11246 ANN ARBOR RD	R-78-054-99-0015-000	Shari Lightston, Trustee	07/07/09	Recv'd Registration	
<hr/>					
<b>Total: 3</b>					



06/03/16

**Enforcement List Vacant Properties**

Address	Sid-well Number	Responsible Party	Date of Enforcement Action	Status Of Enforcement Action	Date Enforcement Closed
<b><u>VACANT PROP - RES</u></b>					
11246 Greystone Blvd	R-78-064-99-0022-701	Biondo Design & Building LLC	07/07/09	1st Reg ltr sent	
11246 BECK RD	R-78-040-99-0008-000	Marcus Raymond	07/07/09	1st Reg ltr sent	06/14/11
11246 ANN ARBOR RD	R-78-054-99-0015-000	Shari Lightston, Trustee	08/07/13	2nd Notice	03/28/14
11246 9464 NORTHERN	R-78-059-03-0169-000	Hasimllari, Edmond	10/14/13	Violation Issued	08/15/14
11246 44424 JOHN ALDEN	R-78-032-01-0001-001		04/01/15	Closed	02/08/16
11246 11432 MONA CT	R-78-064-04-0210-000	Five Brothers	08/17/15	Recv'd Registration	
11246 44415 ERIK PASS	R-78-058-01-0046-000		04/06/16		
11246 14801 PLYMOUTH CROS	R-78-017-09-0001-700		05/12/16	Violation Issued	

**Total: 8**

06/03/16

**Enforcement List Vacant Properties**

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Address	Sid-well Number	Responsible Party	Date of Enforcement Action	Status Of Enforcement Action	Date Enforcement Closed
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**Total All Records: 78**

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## Plymouth Township Fire Department

### Monthly Report

May 2016

#### **Response Information:**

The Plymouth Township Fire Department responded to 262 emergencies this month.

There was an average of 8.46 runs per day this month.

PTFD's average response time was 5 minutes 14 seconds to the scene. This includes all responses and including non-emergent.

#### **Mutual Aid:**

Plymouth Township Fire Department is a member of the Western Wayne County Mutual Aid Association and we provided mutual aid 3 times this month and received mutual aid 1 time.

#### **EMS Information:**

HVA transported 111 patients to the hospital.

PTFD transported 16 patients to the hospital.

#### **Fire Loss:**

There was \$57,000 worth of damage to possessions and property.

#### **Fire Prevention:**

Plymouth Township Fire Department provides comprehensive fire inspections to 74 businesses within Plymouth Township.

Fire Safety public education classes are provided to hundreds of children throughout the year. This month, the department conducted 5 fire safety talks to 114 participants.

## Incident Type Count Report

Date Range: From 5/1/2016 To 5/31/2016

Selected Station(s): All

### Incident

Type	Description	Count	
<b>Station: ST1</b>			
132	Road freight or transport vehicle fire	1	0.38%
142	Brush, or brush and grass mixture fire	2	0.76%
162	Outside equipment fire	1	0.38%
<b>Total - Fires</b>		<b>4</b>	<b>2.74%</b>
311	Medical assist, assist EMS crew	1	0.38%
320	Emergency medical service, other	1	0.38%
321	EMS call, excluding vehicle accident with injury	81	30.92%
322	Vehicle accident with injuries	4	1.53%
324	Motor vehicle accident with no injuries	5	1.91%
351	Extrication of victim(s) from building/structure	1	0.38%
353	Removal of victim(s) from stalled elevator	1	0.38%
<b>Total - Rescue &amp; Emergency Medical Service Incidents</b>		<b>94</b>	<b>64.38%</b>
442	Overheated motor	1	0.38%
444	Power line down	2	0.76%
<b>Total - Hazardous Conditions (No fire)</b>		<b>3</b>	<b>2.05%</b>
542	Animal rescue	1	0.38%
550	Public service assistance, other	1	0.38%
551	Assist police or other governmental agency	1	0.38%
554	Assist invalid	25	9.54%
561	Unauthorized burning	1	0.38%
<b>Total - Service Call</b>		<b>29</b>	<b>19.86%</b>
600	Good intent call, other	1	0.38%
611	Dispatched & cancelled en route	7	2.67%
6111	Hospice Death	1	0.38%
652	Steam, vapor, fog or dust thought to be smoke	1	0.38%
<b>Total - Good Intent Call</b>		<b>10</b>	<b>6.85%</b>
700	False alarm or false call, other	2	0.76%
733	Smoke detector activation due to malfunction	1	0.38%
735	Alarm system sounded due to malfunction	1	0.38%
736	CO detector activation due to malfunction	1	0.38%
743	Smoke detector activation, no fire - unintentional	1	0.38%
<b>Total - Fals Alarm &amp; False Call</b>		<b>6</b>	<b>4.11%</b>
<b>Total for Station</b>		<b>146</b>	<b>55.73%</b>
<b>Station: ST3</b>			
131	Passenger vehicle fire	1	0.38%
<b>Total - Fires</b>		<b>1</b>	<b>0.86%</b>
321	EMS call, excluding vehicle accident with injury	77	29.39%
322	Vehicle accident with injuries	3	1.15%
324	Motor vehicle accident with no injuries	1	0.38%
<b>Total - Rescue &amp; Emergency Medical Service Incidents</b>		<b>81</b>	<b>69.83%</b>

**Incident**

Type	Description	Count	
<b>Station; ST3 - (Continued)</b>			
411	Gasoline or other flammable liquid spill	1	0.38%
<b>Total - Hazardous Conditions (No fire)</b>		<b>1</b>	<b>0.86%</b>
554	Assist invalid	8	3.05%
555	Defective elevator, no occupants	1	0.38%
561	Unauthorized burning	2	0.76%
<b>Total - Service Call</b>		<b>11</b>	<b>9.48%</b>
600	Good intent call, other	1	0.38%
611	Dispatched & cancelled en route	10	3.82%
622	No incident found on arrival at dispatch address	1	0.38%
671	Hazmat release investigation w/ no hazmat	1	0.38%
<b>Total - Good Intent Call</b>		<b>13</b>	<b>11.21%</b>
700	False alarm or false call, other	3	1.15%
730	System malfunction, other	1	0.38%
731	Sprinkler activation due to malfunction	1	0.38%
733	Smoke detector activation due to malfunction	1	0.38%
744	Detector activation, no fire - unintentional	1	0.38%
745	Alarm system sounded, no fire - unintentional	1	0.38%
<b>Total - Fals Alarm &amp; False Call</b>		<b>8</b>	<b>6.90%</b>
9001	Dispatch Error	1	0.38%
<b>Total - Special Incident Type</b>		<b>1</b>	<b>0.86%</b>
<b>Total for Station</b>		<b>116</b>	<b>44.27%</b>
		<b>262</b>	<b>100.00%</b>

# Fire Department Response Times

Stations selected for analysis: All

Shifts selected for analysis: All

For Dates Beginning 5/1/2016 12:00:00AM Ending 5/31/2016 12:00:00AM

Incident Types selected for analysis: All

Incident Response Types selected for analysis: All Responses

Time in Minutes	Dispatch to Enroute	Percent Total	Cumulative Responses	Percent	Enroute to Arrival	Percent Total	Cumulative Responses	Percent	Dispatch to Arrival	Percent Total	Cumulative Responses	Percent
0 - 1	121	53.78	121	53.78	9	4.19	9	4.19	9	3.91	9	3.91
1 - 2	79	35.11	200	88.89	26	12.09	35	16.28	18	7.83	27	11.74
2 - 3	13	5.78	213	94.67	32	14.88	67	31.16	19	8.26	46	20.00
3 - 4	8	3.56	221	98.22	40	18.60	107	49.77	28	12.17	74	32.17
4 - 5	2	0.89	223	99.11	35	16.28	142	66.05	44	19.13	118	51.30
5 - 6	1	0.44	224	99.56	33	15.35	175	81.40	37	16.09	155	67.39
6 - 7	0	0.00	224	99.56	17	7.91	192	89.30	26	11.30	181	78.70
7 - 8	0	0.00	224	99.56	8	3.72	200	93.02	17	7.39	198	86.09
8 - 9	0	0.00	224	99.56	7	3.26	207	96.28	14	6.09	212	92.17
9 - 10	0	0.00	224	99.56	3	1.40	210	97.67	9	3.91	221	96.09
10 +	1	0.44	225	100.00	5	2.33	215	100.00	9	3.91	230	100.00

Incident Total: 225

## Average Times per Incident

Average Fire Department Turn Out Time: 1 minute(s) 5 second(s)  
(Dispatch to Enroute)

Average Fire Department Travel Time: 4 minute(s) 17 second(s)  
(Enroute to Arrive)

Average Fire Department Turn Out and Travel Time: 5 minute(s) 14 second(s)  
(Dispatch to Arrive)

# Listing of Mutual Aid Responses by Mutual Aid Department

## Report for: PLYMOUTH TOWNSHIP FIRE DEPARTMENT

**Department 08204: Canton Twp FD**

<b>Mutual Aid Given</b>		<b>Additional Mutual Aid Departments</b>	
0001077	May 15, 2016 13:27	3	08204 4171 S CANTON CENTER
<i>Subtotal Mutual Aid Type</i>		1	
<i>Subtotal Department</i>		1	

**Department 08255: Northville Twp FD**

<b>Mutual Aid Received</b>		<b>Additional Mutual Aid Departments</b>	
0001016	May 10, 2016 10:40	1	08255 49568 LINDEN
<i>Subtotal Mutual Aid Type</i>		1	
<b>Mutual Aid Given</b>		<b>Additional Mutual Aid Departments</b>	
0000976	May 6, 2016 11:43	3	08255 On NORTHVILLE Rd at FIVE MIL
<i>Subtotal Mutual Aid Type</i>		1	
<i>Subtotal Department</i>		2	

**Department 8109: Salem Fire Department**

<b>Mutual Aid Given</b>		<b>Additional Mutual Aid Departments</b>	
0001025	May 10, 2016 20:15	3	8109 On NAPIER Rd at POWELL Rd
<i>Subtotal Mutual Aid Type</i>		1	
<i>Subtotal Department</i>		1	
<b>Total</b>		<b>4</b>	

## Incident Summary by Incident Type

Date Range: From 5/1/2016 To 5/31/2016

Incident Type(s) Selected: All

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<b>Incident Type</b>	<b>Incident Count</b>	<b>Used in Ave. Resp.</b>	<b>Average Response Time hh:mm:ss</b>	<b>Total Loss</b>	<b>Total Value</b>
Fire	5	5	00:05:07	\$57,000.00	\$57,000.00
EMS/Rescue	175	150	00:06:32	\$0.00	\$0.00
Hazardous Condition	4	3	00:08:40	\$0.00	\$0.00
Service Call	40	27	00:06:26	\$0.00	\$0.00
Good Intent	23	4	00:06:54	\$0.00	\$0.00
False Call	14	12	00:06:17	\$0.00	\$0.00
Other	1	1	00:02:39	\$0.00	\$0.00
<b>Totals</b>	<b>262</b>	<b>202</b>		<b>\$57,000.00</b>	<b>\$57,000.00</b>

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**Note:** The incident count used in averages does not include the following:

Not Completed incidents, Mutual Aid Given, Other Aid Given, Cancelled in Route, Not Priority, Fill-In Standby, No Arrival and Invalid Dates/Times.



# Agency Activity Summary

Plymouth Community Fire Dept

Agency: Plymouth Community Fire Dept | Service Date: From 05/01/2016 Through 05/31/2016

**Total Number of ePCRs:** 160

**Total Number of Incidents:** 153

**By Branch**

01 Station 1 = 78

03 Station 3 = 82

**Run Disposition**

	#	%		#	%
Transports	16	10.0%	Dead Prior To Arrival	1	0.6%
Treated / Transferred Care	111	69.4%	Dead After Arrival	N/A	N/A
Treated / No Transport	11	6.9%	Treat/Transported by Private Veh.	N/A	N/A
No Treatment	N/A	N/A	No Transport / Refused Care	15	9.4%
Transported / Refused Care	N/A	N/A	Other	6	3.8%
Cancelled	N/A	N/A	No Patient Found	N/A	N/A
Left Blank	N/A	N/A			

**Run Type**

	#	%		#	%
<b>Emergency Runs</b>	160	100.0%	<b>Non-Emergency Runs</b>	N/A	N/A
Stand By	N/A	N/A	Stand By	N/A	N/A
Mutual Aid	N/A	N/A	Mutual Aid	N/A	N/A
Interfacility	N/A	N/A	Interfacility	N/A	N/A
Intercept	N/A	N/A	Intercept	N/A	N/A
<b>Emergency Runs (Scheduled)</b>	N/A	N/A	<b>Non-Emergency Runs (Scheduled)</b>	N/A	N/A
Stand By	N/A	N/A	Stand By	N/A	N/A
Mutual Aid	N/A	N/A	Mutual Aid	N/A	N/A
Interfacility	N/A	N/A	Interfacility	N/A	N/A
Intercept	N/A	N/A	Intercept	N/A	N/A

Emergency Type Left Blank: 0

**Runs by Unit**

<u>Unit</u>	<u>Total Runs</u>	<u>Treat/Transp</u>	<u>Treat/Transfer</u>	<u>Treat/No Transp</u>	<u>Transp/Ref. Care</u>	<u>Cancelled</u>	<u>Dead Prior Arr</u>	<u>Dead After Arr</u>	<u>T/T Priv Veh</u>	<u>No Trans/Ref. Care</u>	<u>Other</u>	<u>No Pat. Found</u>
0401	76	10	53	7	0	0	0	0	0	3	3	0
0403	80	6	55	4	0	0	1	0	0	12	2	0
E1	2	0	1	0	0	0	0	0	0	0	1	0
E3	2	0	2	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>160</b>	<b>16</b>	<b>111</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>6</b>	<b>0</b>

**Runs by Service Level**

<u>Dispatched Service Level</u>	<u>#</u>	<u>%</u>	<u>Recommended Service Level</u>	<u>#</u>	<u>%</u>
BLS	4	2.5%	BLS	21	13.1%
ALS	156	97.5%	ALS1	137	85.6%
SCT	N/A	N/A	ALS2	2	1.3%
			SCT	N/A	N/A
			Rotary Wing	N/A	N/A
			Fixed Wing	N/A	N/A

**Runs by Insurance Type with Service Level** (Multiple insurance types may have been marked on a run)

Type	BLS	%	ALS1	%	ALS2	%	SCT	%Rotary Wing	%Fixed Wing	%	Total	%
Auto Ins.	5	3.1%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	3.1%
None	16	10.0%	137	85.6%	2	1.3%	N/A	N/A	N/A	N/A	155	96.9%

**Runs by Primary PI (Note - Primary PI is based on the ICD-10 priority setup in HealthEMS)**

Description	#	%
Abdominal Pain	3	1.9%
Allergic Reaction	1	0.6%
Alt. Level Conscious	2	1.3%
Anxiety	2	1.3%
Asthma Symptoms	1	0.6%
Back Pain (No Trauma)	1	0.6%
Behavioral Disorder	3	1.9%
Cardiac Arrest	2	1.3%
Cardiac Symptoms	1	0.6%
Chest Pain	7	4.4%
Dehydration Symp.	2	1.3%
Diabetic Symptoms	3	1.9%
Dizziness	4	2.5%
Dyspnea-SOB	8	5.0%
GI -Diarrhea	1	0.6%
Headache (no trauma)	1	0.6%
Hyperthermia	1	0.6%
Migraine	1	0.6%
Monitoring Required	3	1.9%
Nausea	2	1.3%
No Medical Problem	4	2.5%
Nose Bleed	1	0.6%
Obvious Death	2	1.3%
Poisoning	1	0.6%
Psychiatric Emerg.	2	1.3%
Seizure	2	1.3%
Syncope/Fainting	4	2.5%
Trauma Injury	17	10.6%
Unconscious	1	0.6%
Unknown Medical	15	9.4%
Vomiting	5	3.1%
Weakness	9	5.6%
Left Blank	48	30.0%
<b>Total</b>	<b>160</b>	<b>100.0%</b>

### Runs by Dispatch (EMD) Code

<u>Description</u>	<u>#</u>	<u>%</u>
1 Abdominal Pain	3	1.9%
10 Chest Pain [non-traumatic]	9	5.6%
12 Convulsions/Seizures	5	3.1%
13 Diabetic	5	3.1%
17 Falls	21	13.1%
19 Heart Problems A.I.D.C	1	0.6%
2 Allergies/Envenomations	3	1.9%
21 Hemorrhage/Lacerations	2	1.3%
23 Overdose/poisoning	2	1.3%
25 Psychiatric/Abnormal behavior/Suicide Attempt	10	6.3%
26 Sick Person	47	29.4%
27 Stab/ Gunshot Penetrating Trauma	1	0.6%
28 Stroke [CVA]	1	0.6%
29 Traffic/Accidents	14	8.8%
30 Traumatic Injuries	5	3.1%
31 Unconscious/Fainting	14	8.8%
32 Unknown Problem	1	0.6%
5 Back Pain	2	1.3%
6 Breathing Problems	8	5.0%
88 Not applicable	3	1.9%
9 Cardiac or Respiratory Arrest/Death	1	0.6%
99 Unknown	2	1.3%
<i>Left Blank</i>	0	0.0%
<hr/> <i>Total</i>	160	100.0%

**Transport From (Category)**

	<u>#</u>	<u>%</u>
Residence (Home)	104	65.0%
Scene of Accident or Acute Event	50	31.3%
Residential, Custodial Facility	1	0.6%
--Left Blank--	5	3.1%
<i>Total</i>	160	100.0%

**Transport From (Facility)**

	<u>#</u>	<u>%</u>
--Left Blank--	160	100.0%
<i>Total</i>	160	100.0%

**Transport To (Destination Facility)**

	<u>#</u>	<u>%</u>
St Mary Livonia ER	85	53.1%
No transport	25	15.6%
St Joe Ann Arbor ER	13	8.1%
UNIVERSITY OF MICHIGAN ER	13	8.1%
--Left Blank--	13	8.1%
Providence Park ER-Novi	4	2.5%
Beaumont Hospital Royal Oak	3	1.9%
Botsford Hospital ER	2	1.3%
Henry Ford West Bloomfield	1	0.6%
Henry Ford MAIN	1	0.6%
<i>Total</i>	160	100.0%

# FOIA Monthly Report

Run Date: 06/07/2016 3:41 PM

Create Date	Company Name	Customer Full Name	Type of Information Requested	Amount of Payment
5/11/2016	PM Environmental	Beth Whitener	Other	
5/25/2016		Mrs. Phyllis Pelloni	EMS Report	
5/3/2016	Neurotrauma Case Management	RN Michelle Shafer	EMS Report	
5/18/2016	Presentations One, Inc.	Gary Kula	Fire Report	
5/20/2016		Axiom Requisition Copy Service	EMS Report	
5/27/2016		Mr. Richard Sharland	Accounting Records	
5/17/2016		Sr. Account Manager Jim Zabochnik	Police Records	
5/20/2016		Mr. Matthew Consolo	Police Records	
Total Requests: 8				Total Dollars: 0



## CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

**MEETING DATE:** June 14, 2016

**ITEM:** Request for Board Action – Public Hearing – Jogue, Inc., for a twelve (12) year Industrial Facilities Tax Exemption Certificate - Resolution 2016-06-14-13

**PRESENTER:** Nancy Conzelman, Township Clerk

**OTHER INDIVIDUALS IN ATTENDANCE:** Representative of Jogue, Inc.

**BACKGROUND:** This is for Real and Personal Property Improvements

**ACTION REQUESTED:** Approve

**MODEL RESOLUTION:** I move to approve Resolution 2016-06-14-13, approving Jogue, Inc., for a twelve (12) year Industrial Facility Tax Exemption Certificate for real and personal property improvements located at 14731 Helm Ct., Plymouth Township, Wayne County, Michigan.

**ATTACHMENTS:** IFTEC Application package



### Jogue Incorporated General Description

Jogue Incorporated is a creator and manufacturer of fine flavors and extracts with a rich history dating back to 1910. Jogue operates 5 manufacturing facilities throughout the United States with its headquarters in Plymouth Township, Michigan. Jogue's current Plymouth Twp. Manufacturing facility produces vanilla, syrups for the ICEE company, ice cream bases and variegates and other food ingredients. Jogue is experiencing growth and is looking to expand its headquarters by 14,000 square feet. The additional space would be used for food manufacturing and is proposed to connect via bridge access.

Jogue has approval for an additional manufacturing facility in Northville next to our current plant in City of Northville. Jogue recently built a new 40,000 square foot manufacturing facility in Ontario, California in 2013 to add much needed exposure to the Western Region and offer efficient transportation costs to its clients. Jogue prefers to now expand in Plymouth Twp. due to its roots in Michigan and business friendly atmosphere. Jogue's larger competition is based out of Europe and Jogue is looking to heavily invest in Plymouth Twp, Michigan with future equipment and jobs.

# Application for Industrial Facilities Tax Exemption Certificate

Issued under authority of Public Act 198 of 1974, as amended. Filing is mandatory.

**INSTRUCTIONS:** File the original and two copies of this form and the required attachments (three complete sets) with the clerk of the local government unit. The State Tax Commission (STC) requires two complete sets (one original and one copy). One copy is retained by the clerk. If you have any questions regarding the completion of this form, call (517) 373-3302.

To be completed by Clerk of Local Government Unit	
Signature of Clerk <i>Taney Longman</i>	Date Received by Local Unit <i>5/12/2016</i>
STC Use Only	
Application Number	Date Received by STC

**APPLICANT INFORMATION**  
All boxes must be completed.

1a. Company Name (Applicant must be the occupant/operator of the facility) <i>JOGUE INCORPORATED</i>		1b. Standard Industrial Classification (SIC) Code - Sec. 2(10) (4 or 6 Digit Code)	
1c. Facility Address (City, State, ZIP Code) (real and/or personal property location) <i>14731 HELM CT. PLYMOUTH TWP MI 48170</i>		1d. City/Township/Village (indicate which) <i>TWP.</i>	1e. County <i>WAYNE</i>
2. Type of Approval Requested <input checked="" type="checkbox"/> New (Sec. 2(5)) <input type="checkbox"/> Transfer <input type="checkbox"/> Speculative Building (Sec. 3(8)) <input type="checkbox"/> Rehabilitation (Sec. 3(6)) <input type="checkbox"/> Research and Development (Sec. 2(10)) <input type="checkbox"/> Increase/Amendment		3a. School District where facility is located <i>PLYMOUTH</i>	3b. School Code
		4. Amount of years requested for exemption (1-12 Years) <i>12</i>	

5. Per section 5, the application shall contain or be accompanied by a general description of the facility and a general description of the proposed use of the facility, the general nature and extent of the restoration, replacement, or construction to be undertaken, a descriptive list of the equipment that will be part of the facility. Attach additional page(s) if more room is needed.

*Facility is an extension of the current Jogue Food Processing plant. The addition shall be connected by a bridge and shall perform the same functions as the existing plant which include blending and extracting of flavors and syrups. Please see attached list for new equipment.*

6a. Cost of land and building improvements (excluding cost of land) * Attach list of improvements and associated costs. * Also attach a copy of building permit if project has already begun.	<i>\$2,585,370</i>
6b. Cost of machinery, equipment, furniture and fixtures * Attach itemized listing with month, day and year of beginning of installation, plus total	<i>\$127,000</i>
6c. Total Project Costs * Round Costs to Nearest Dollar	<i>\$2,712,370</i>

Real Property Costs  
Personal Property Costs  
Total of Real & Personal Costs

7. Indicate the time schedule for start and finish of construction and equipment installation. Projects must be completed within a two year period of the effective date of the certificate unless otherwise approved by the STC.

	Begin Date (M/D/Y)	End Date (M/D/Y)	
Real Property Improvements	<i>7/1/2016</i>	<i>6/30/2018</i>	<input checked="" type="checkbox"/> Owned <input type="checkbox"/> Leased
Personal Property Improvements	<i>8/1/2016</i>	<i>6/30/2018</i>	<input checked="" type="checkbox"/> Owned <input type="checkbox"/> Leased

8. Are State Education Taxes reduced or abated by the Michigan Economic Development Corporation (MEDC)? If yes, applicant must attach a signed MEDC Letter of Commitment to receive this exemption.     Yes     No

9. No. of existing jobs at this facility that will be retained as a result of this project.    *25*

10. No. of new jobs at this facility expected to create within 2 years of completion.    *10*

11. Rehabilitation applications only: Complete a, b and c of this section. You must attach the assessor's statement of SEV for the entire plant rehabilitation district and obsolescence statement for property. The Taxable Value (TV) data below must be as of December 31 of the year prior to the rehabilitation.

a. TV of Real Property (excluding land) \_\_\_\_\_

b. TV of Personal Property (excluding inventory) \_\_\_\_\_

c. Total TV \_\_\_\_\_

12a. Check the type of District the facility is located in:

Industrial Development District       Plant Rehabilitation District

12b. Date district was established by local government unit (contact local unit)    *OCTOBER 1989*

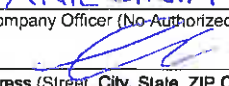
12c. Is this application for a speculative building (Sec. 3(8))?     Yes     No



**APPLICANT CERTIFICATION - complete all boxes.**

The undersigned, authorized officer of the company making this application certifies that, to the best of his/her knowledge, no information contained herein or in the attachments hereto is false in any way and that all are truly descriptive of the industrial property for which this application is being submitted.

It is further certified that the undersigned is familiar with the provisions of P.A. 198 of 1974, as amended, being Sections 207.551 to 207.572, inclusive, of the Michigan Compiled Laws; and to the best of his/her knowledge and belief, (s)he has complied or will be able to comply with all of the requirements thereof which are prerequisite to the approval of the application by the local unit of government and the issuance of an Industrial Facilities Exemption Certificate by the State Tax Commission.

13a. Preparer Name <b>ANIL SASTRY</b>	13b. Telephone Number <b>734-207-0100</b>	13c. Fax Number <b>734-207-0200</b>	13d. E-mail Address <b>ANIL@JCGUE.COM</b>
14a. Name of Contact Person <b>ANIL SASTRY</b>	14b. Telephone Number <b>734-207-0100</b>	14c. Fax Number <b>734-207-0200</b>	14d. E-mail Address <b>ANIL@JCGUE.COM</b>
▶ 15a. Name of Company Officer (No Authorized Agents) <b>ANIL SASTRY</b>			
15b. Signature of Company Officer (No Authorized Agents) 		15c. Fax Number <b>734-207-0200</b>	15d. Date <b>5/11/2016</b>
▶ 15e. Mailing Address (Street, City, State, ZIP Code) <b>P.O. BOX 190 NORTHVILLE, MI 48167</b>		15f. Telephone Number <b>734-207-0100</b>	15g. E-mail Address <b>ANIL@JCGUE.COM</b>

**LOCAL GOVERNMENT ACTION & CERTIFICATION - complete all boxes.**

This section must be completed by the clerk of the local governing unit before submitting application to the State Tax Commission. Check items on file at the Local Unit and those included with the submittal.

▶ 16. Action taken by local government unit <input type="checkbox"/> Abatement Approved for _____ Yrs Real (1-12), _____ Yrs Pers (1-12) After Completion <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Denied (Include Resolution Denying)		16b. The State Tax Commission Requires the following documents be filed for an administratively complete application: <b>Check or Indicate N/A if Not Applicable</b> <input type="checkbox"/> 1. Original Application plus attachments, and one complete copy <input type="checkbox"/> 2. Resolution establishing district <input type="checkbox"/> 3. Resolution approving/denying application. <input type="checkbox"/> 4. Letter of Agreement (Signed by local unit and applicant) <input type="checkbox"/> 5. Affidavit of Fees (Signed by local unit and applicant) <input type="checkbox"/> 6. Building Permit for real improvements if project has already begun <input type="checkbox"/> 7. Equipment List with dates of beginning of installation <input type="checkbox"/> 8. Form 3222 (if applicable) <input type="checkbox"/> 9. Speculative building resolution and affidavits (if applicable)	
16a. Documents Required to be on file with the Local Unit <b>Check or Indicate N/A if Not Applicable</b> <input type="checkbox"/> 1. Notice to the public prior to hearing establishing a district. <input type="checkbox"/> 2. Notice to taxing authorities of opportunity for a hearing. <input type="checkbox"/> 3. List of taxing authorities notified for district and application action. <input type="checkbox"/> 4. Lease Agreement showing applicants tax liability.			
16c. LUCI Code		16d. School Code	
17. Name of Local Government Body		▶ 18. Date of Resolution Approving/Denying this Application	

Attached hereto is an original application and all documents listed in 16b. I also certify that all documents listed in 16a are on file at the local unit for inspection at any time, and that any leases show sufficient tax liability.

19a. Signature of Clerk	19b. Name of Clerk	19c. E-mail Address
19d. Clerk's Mailing Address (Street, City, State, ZIP Code)		
19e. Telephone Number	19f. Fax Number	

State Tax Commission Rule Number 57: Complete applications approved by the local unit and received by the State Tax Commission by October 31 each year will be acted upon by December 31. Applications received after October 31 may be acted upon in the following year.

Local Unit: Mail one original and one copy of the completed application and all required attachments to:

Michigan Department of Treasury  
State Tax Commission  
PO Box 30471  
Lansing, MI 48909

(For guaranteed receipt by the STC, it is recommended that applications are sent by certified mail.)

STC USE ONLY				
▶ LUCI Code	▶ Begin Date Real	▶ Begin Date Personal	▶ End Date Real	▶ End Date Personal



Jogue Personal Property List

<u>Description</u>	<u>Start</u>	<u>Cost:</u>
High Fructose Tank	8/1/2017	\$20,000
2 x Stainless Steel Kettles	8/1/2017	\$30,000
Process Piping to connect tanks	8/1/2017	\$20,000
5 x Stainless Steel Mixing Tanks	8/1/2017	\$20,000
Boiler	8/1/2017	\$30,000
Furniture for small lab	8/1/2017	\$1,000
Strapping Machine	10/31/2017	\$13,000
Filling Machine	10/31/2017	\$11,000
<b>Total</b>		<b>\$127,000</b>



**ESTIMATE SUMMARY**

Prepared for  
**Jogue Industries**  
 14731 Helm CL  
 Plymouth, MI  
 15,101 SF  
 Wednesday, May 27, 2015

CODE	DESCRIPTION	AMOUNT	COST/ SQ. FT.	% OF JOB	NOTES
<b>01-000</b>	<b>GENERAL CONDITIONS</b>	<b>\$212,994</b>			
01-100	STAFFING	\$122,988	8.14	4.76%	SUPERVISION & OFFICE SUPPORT - 8 MONTH DURATION
01-210	TEMPORARY FACILITIES	\$10,781	0.71	0.42%	TEMP OFFICE & FACILITIES, DUMPSTERS
01-300	INSPECTION & TESTING	\$25,000	1.66	0.97%	TESTING ALLOWANCE
01-410	PERMITS	\$30,000	1.99	1.16%	BUILDING PERMIT ALLOWANCE
01-510	INSURANCE	\$13,200	0.87	0.51%	GENERAL LIABILITY
01-600	PUBLIC UTILITIES	\$0	0.00	0.00%	COSTS BY OWNER
01-710	FINAL CLEAN UP	\$2,800	0.19	0.11%	
01-830	MISCELLANEOUS	\$4,725	0.31	0.18%	
01-900	SAFETY	\$3,500	0.23	0.14%	
<b>02-000</b>	<b>SITE WORK</b>	<b>\$429,485</b>			
02-200	EARTHWORK	\$116,555	7.72	4.51%	INCLUDES ALLOWANCE FOR 5,000 CY OF IMPORTED & PLACED ENGINEERED FILL
02-500	PAVING & SURFACING	\$24,890	1.65	0.96%	ASPHALT
02-600	SITE UTILITIES	\$102,945	6.82	3.98%	WATER, SANITARY, & STORM
02-800	SITE IMPROVEMENTS	\$151,560	10.04	5.86%	BRIDGE, CULVERT, & ENCLOSURE
02-900	LANDSCAPING	\$33,545	2.22	1.30%	PER PLAN
<b>03-000</b>	<b>CONCRETE</b>	<b>\$224,770</b>			
03-100	FOUNDATIONS	\$36,770	2.43	1.42%	
	SPECIAL FOUNDATIONS	\$100,000	6.62	3.87%	DEEP FOUNDATION ALLOWANCE (PILES + GRADE BEAMS)
	PIT	\$20,000	1.32	0.77%	ALLOWANCE FOR ALCOHOL STORAGE ROOM PIT
03-250	SITE CONCRETE	\$18,000	1.19	0.70%	BUILDING WALKS, RAMP, & STEPS, CURB & GUTTER
03-300	BUILDING CONCRETE	\$50,000	3.31	1.93%	6" CONCRETE SLAB, 12' MONOLITHIC CONTAINMENT CURB FOR COLD STORAGE ROOMS
<b>04-000</b>	<b>MASONRY</b>	<b>\$250,000</b>			
04-000	MASONRY	\$250,000	16.56	9.67%	SPLIT FACE BLOCK PER PLAN
<b>05-000</b>	<b>METALS</b>	<b>\$194,500</b>			
05-100	STRUCTURAL STEEL	\$185,000	12.25	7.16%	CONVENTIONAL STRUCTURE: COLUMNS, JOISTS & DECK
05-500	METAL FABRICATION (MISC.)	\$9,500	0.63	0.37%	STEEL RAILING FOR RAMP & STEPS, LADDER, BOLLARDS
<b>06-000</b>	<b>CARPENTRY</b>	<b>\$3,970</b>			
06-100	ROUGH CARPENTRY	\$2,000	0.13	0.08%	
06-200	FINISH CARPENTRY	\$1,970	0.13	0.08%	P LAM COUNTERTOPS FOR (2) RESTROOMS
<b>07-000</b>	<b>MOISTURE PROTECTION</b>	<b>\$93,000</b>			
07-480	METAL SIDING	\$10,000	0.66	0.39%	FRONT ELEVATION DETAIL
07-500	MEMBRANE ROOFING	\$80,000	5.30	3.09%	EPDM ROOFING, COPINGS, & GUTTERS
07-900	JOINT SEALERS (CAULKING)	\$3,000	0.20	0.12%	ALLOWANCE
<b>08-000</b>	<b>DOORS &amp; GLASS</b>	<b>\$35,400</b>			
08-110	METAL DOORS & FRAMES	\$6,600	0.44	0.26%	(3) H.M. DOORS, FRAMES, & HARDWARE INSTALLED
08-200	WOOD & PLASTIC DOORS	\$2,300	0.15	0.09%	(2) RESTROOM DOORS, FRAMES, & HARDWARE INSTALLED
08-330	OH DOORS	\$8,500	0.56	0.33%	(1) 10 x 12, (1) 12 X 14 OVERHEAD DOOR
08-400	GLASS & ALUMINUM	\$18,000	1.19	0.70%	(1) PR. GLASS & ALUMINUM ENTRY DOOR, FRONT ELEVATION WINDOWS
<b>09-000</b>	<b>FINISHES</b>	<b>\$49,860</b>			
09-250	GYPSUM BOARD (DRYWALL)	\$8,820	0.58	0.34%	
09-300	TILE	\$5,040	0.33	0.19%	PORCELAIN TILE FLOOR & WET WALLS (2) RESTROOMS
09-900	PAINTING	\$36,000	2.38	1.39%	INTERIOR & EXTERIOR BLOCK, DOORS, RAILINGS, BOLLARDS
<b>10-000</b>	<b>SPECIALTIES AND EQUIPMENT</b>	<b>\$3,722</b>			
10-150	TOILET PARTITIONS	\$1,900	0.13	0.07%	
10-800	TOILET & BATH ACCESSORIES	\$1,822	0.12	0.07%	
<b>11-000</b>	<b>EQUIPMENT</b>	<b>\$0</b>			
11-010	ARCHITECTURAL EQUIPMENT	\$0	0.00	0.00%	ALL EQUIPMENT BY OWNER
<b>12-000</b>	<b>FURNISHINGS</b>	<b>\$0</b>			
12-000	FURNISHINGS	\$0	0.00	0.00%	ALL BY OWNER
<b>13-000</b>	<b>SPECIAL CONSTRUCTION</b>	<b>\$168,000</b>			
13-030	COLD STORAGE ENCLOSURES	\$168,000	11.13	6.50%	
<b>15-000</b>	<b>MECHANICAL</b>	<b>\$216,910</b>			
15-400	PLUMBING	\$68,000	4-50	2.63%	RESTROOMS, TRENCH DRAINS, MOP & 3 COMPARTMENT SINK



**ESTIMATE SUMMARY**

Prepared for  
**Jogue Industries**  
 14731 Helm CL  
 Plymouth, MI  
 15,101 SF  
 Wednesday, May 27, 2015

CODE	DESCRIPTION	AMOUNT	COST/ SQ. FT.	% OF JOB	NOTES
15-501	FIRE PROTECTION	\$32,000	2.12	1.24%	DESIGN, PERMIT, & DISTRIBUTION PER CODE
15-800	HVAC	\$116,910	7.74	4.52%	HEATING, VENTILATION, GAS PIPING
<b>16-000</b>	<b>ELECTRICAL</b>	<b>\$154,000</b>			
16-000	ELECTRICAL	\$154,000	10.20	5.96%	BUILDING & SITE
	<b>SUBTOTAL</b>	<b>\$2,204,811</b>	<b>145.99</b>	<b>85.27%</b>	
	PHASE 1 A/E SERVICES (S.P.A.)	\$44,750			INCLUDES CIVIL ENGINEERING
17-100	ARCHITECTURAL & STRUCTURAL ENG.	\$77,161	5.11	2.98%	3.50%
17-300	CIVIL COST	\$10,000	0.66	0.39%	MDEQ SUBMITTAL
	SURVEY	\$3,000	0.20	0.12%	TOPOGRAPHIC SURVEY
	<b>SUBTOTAL</b>	<b>\$2,294,772</b>	<b>151.96</b>	<b>88.76%</b>	
20-500	CONTINGENCY	\$110,231	7.30	4.26%	5.00%
	<b>SUBTOTAL</b>	<b>\$2,405,003</b>	<b>159.26</b>	<b>93.02%</b>	
20-300	FEE	\$180,375	11.94	6.98%	7.50%
<b>GRAND TOTAL</b>		<b>\$2,585,378</b>	<b>171.21</b>	<b>100.00%</b>	

**QUALIFICATIONS / EXCLUSIONS**

THIS IS A BUDGETARY ESTIMATE BASED ON THE PRELIMINARY OUTLINE SPECIFICATION DATED 3/11/2015; CONTRACT PRICING WILL BE BASED ON FINAL CONSTRUCTION DOCUMENTS

UNSUITABLE SOIL CONDITIONS ARE THE RESPONSIBILITY OF THE OWNER

DE WATERING OF THE SITE IS NOT INCLUDED

ASSUMES BALANCING SITE WITHOUT HAULING ANY SPOILS OFF SITE; IF SOILS ARE DEEMED UNSUITABLE, ADDITIONAL COSTS TO HAUL OFF SPOILS & IMPORT SUITABLE FILL WILL BE DE-WATERING OF THE SITE IS NOT INCLUDED

UNSUITABLE SOIL CONDITIONS ARE THE RESPONSIBILITY OF THE OWNER

WINTER CONDITIONS ARE NOT INCLUDED IN THIS ESTIMATE

PERMITS, FEES, & TESTING COSTS ARE ALLOWANCES

EXCLUDES HAZARDOUS MATERIALS, OR ENVIRONMENTAL ISSUES

ALL PUBLIC UTILITY COSTS TO BE PAID BY THE OWNER

ALL PRIMARY WIRING TO BE PROVIDED BY UTILITY CO.

NON UNION LABOR

EXCLUDES ANY BONDS

BUILDER'S RISK INSURANCE IS EXCLUDED

EXCLUDES ANY SCOPE OF WORK NOT LISTED ABOVE

EXCLUDES ANY IMPROVEMENTS TO THE EXISTING BUILDING

**ABATEMENT CONTRACT**  
**BETWEEN THE CHARTER TOWNSHIP OF PLYMOUTH**  
**AND JOGUE INCORPORATED**

This Agreement, made this 13<sup>th</sup> day of May, 2016, by and between the Charter Township of Plymouth, (hereinafter referred to as "Township"), and Jogue Incorporated, (hereinafter referred to as "Company").

**WHEREAS**, pursuant to Section 22 of Act 334 of the Public Acts of 1993, it is necessary for the "Township" and the "Company" to enter into a written agreement prior to approval and issuance of an Industrial Facility Exemption Certificate; and

**WHEREAS**, this Agreement must formally accompany any application made by the "Company" for an Industrial Facilities Exemption Certificate to the State of Michigan, outlining the conditions and resources to be upheld during an abatement period.

**WHEREAS**, the Township desires to provide the abatement as evidenced in the application for an Industrial Facilities Exemption Certificate.

**NOW, THEREFORE, THE PARTIES AGREE TO THE FOLLOWING:**

The "Company" agrees to satisfy the following conditions and the "Company" understands and acknowledges that failure to satisfy any one of the conditions could result in the Township Board adopting a resolution recommending to the State Tax Commission revocation of the Industrial Facilities Exemption Certificate at the sole option of the "Township":

1. The "Company" agrees to submit a report regarding status of employment every two (2) years during the abatement period beginning with an initial report filed no later than the 10<sup>th</sup> day of January immediately following the second year after the issuance date of the Industrial Facilities Exemption Certificate. The "Company" shall in no event neglect to submit the above report upon thirty (30) days written notice from the "Township". The report must include:

- a) The number of new jobs promised in the application and the actual number of new jobs created to date; and
- b) If the number of applicant's employees is not equal to or greater than the number given in the application, an explanation for any shortfall shall be included; and

- c) The estimated project cost in the application and the actual final project cost to date (required in the initial report only).

The "Company" understands that if employment has not been retained or reached as stated in the application or the construction and/or expansion project has not been completed or expenditures made as described in the application, the "Township" has the right to recommend revocation of the Industrial Facilities Exemption Certificate by resolution presented to the State Tax Commission.

2. The "Company" or an agency or affiliate designated by the "Company", is encouraged to contribute some percentage of its abated taxes yearly to local charitable organizations or community service groups or to the "Township" with a designation that the contribution is to be used for a specific purpose.

3. If in any year during the abatement period the "Company" invokes the jurisdiction of the Michigan Tax Tribunal for the purpose of seeking a reduction of the assessed and/or taxable value of the real property to which the abatement applies as a result of a petition filed by the "Company" for such year, the "Company" shall immediately refund to each taxing authority the amount(s) abated during all years covered by this Certificate based on the higher assessment minus the amount(s) abated based on the reduced assessment. The "Company" shall also abandon and return to the "Township" this Industrial Facilities Exemption Certificate. The "Company" agrees that this is a contractual right and may be enforced in a court of competent jurisdiction. No sanctions hereunder will accrue to the "Company" in the event it files an action in the Michigan Tax Tribunal with respect to the abated property in order to correct a clerical error of the Assessor such as an error in addition or subtraction.

If in any year during the abatement period the "Company" invokes the jurisdiction of the Michigan Tax Tribunal for the purpose of seeking a reduction of the assessed and/or taxable value of the personal property to which the abatement applies beyond that allowed by State Tax Commission Depreciation Table assigned to the property by the Township Assessor, the "Company" shall immediately refund to each taxing authority the amount(s) abated during all years covered by this Certificate based on the higher assessment minus the amount(s) abated based on the reduced assessment. The "Company" shall also abandon and return to the "Township" this Industrial Facilities Exemption Certificate. The "Company" agrees that this is a contractual right and may be enforced in a court of competent jurisdiction. No sanctions hereunder will accrue to the "Company" in the event it files an action in the Michigan Tax Tribunal with respect to the abated property in order to correct a clerical error of the Assessor such as an error in addition or subtraction.

It will be a substantial default of this Agreement if the "Company" asserts to any court or administrative agency during the term of this Agreement that the true cash value of the property (real or personal) is other than or different than the amounts stated in the tax abatement application. The "Company" hereby stipulates and certifies that it has accurately valued the personal property and/or real property which is the subject of the abatement and the "Township" can rely on the figures represented in the application.

The "Company" agrees to reimburse the "Township" for any costs the "Township" incurs in responding to or contesting any appeal the "Company" asserts to any court or administrative agency during the term of this Agreement that the true cash value of the property (real or personal) is other than or different than the amount stated in the tax abatement application except as offset by applicable State Tax Commission Depreciation Table(s) and asset disposals. The costs subject to this section include attorney fees, appraisal costs, filing fees, expert witness fees, travel costs, copying expense, and any other cost or expense reasonably incurred by the "Township" in responding to or defending against such assertions.

4. The parties hereto further agree that if any of the above referenced conditions are not met within thirty (30) days after written notice by the "Township" of such failure, thereafter the "Township" may recommend revocation of this tax abatement. The "Township" shall not recommend such revocation until after a hearing is conducted wherein the "Company" shall be offered an opportunity to demonstrate why it has not breached any of the conditions set forth above or any other reasons why the tax abatement should not be revoked. The "Company" shall be given thirty (30) days written notice of such hearing which shall be conducted by the "Township" or its designee.

5. The determination of whether to recommend revocation of the Industrial Facilities Exemption Certificate shall be in the sole discretion of the Board of Trustees of the "Township."

In the alternative after such hearing, the Board of Trustees of the "Township" may require the "Company" to post a performance bond, funded by a percentage of the abated taxes, or may sue for money damages in a court of competent jurisdiction, in lieu of or in addition to recommending revocation of the Industrial Facilities Exemption Certificate. The performance bond shall be limited to the amount of abated taxes to ensure that all of the above conditions are met. The calculation of the amount of the bond shall be determined by the Board of Trustees of the "Township" and shall be binding upon the "Company" absent manifest error. The "Township" may make a claim against and enforce the terms of that performance bond.

By signature of representatives of both the "Company" and the "Township", it is understood that both the "Company's" investment in the project and the "Township's" investment through the granting of the Industrial Facilities Exemption Certificate are to encourage the economic growth of all.

It is also acknowledged that certain economic conditions can, at times, prohibit the maintenance of the "Company's" targeted status. It is understood that if such conditions exist at the time of the designated "Company" reports, the governing body of the "Township" will carefully evaluate the "Company's" situation, and will inform the "Company" if any action is considered in order to give the "Company" an opportunity for correction.

**AFFIDAVIT OF FEES**

In accordance with State Tax Commission Bulletin No. 3, dated January 1998, representatives of the "Township" and the "Company" do hereby swear and affirm by their signatures below that no payment(s) in excess of the fee allowed by Act 198, as amended, whether referred to as "fees", "payments in lieu of taxes", "donations", or by other like terms, has (have) been made or promised in exchange for favorable consideration of an Industrial Facilities Exemption Certificate application.

APPLICANT:

Jogve Incorporated  
Company Name

[Signature]  
Signature  
Its: CEO

CHARTER TOWNSHIP OF PLYMOUTH:

Richard M. Reaume  
Its: Supervisor

Nancy Conzelman  
Its: Clerk

Approved by the Charter Township of Plymouth Board of Trustees on \_\_\_\_\_

Resolution No. \_\_\_\_\_



## LEASE AGREEMENT

**THIS LEASE AGREEMENT** ("Lease"), made and entered into as of the 1st day of January, 2016, by and between N.V. Laboratories, L.L.C., a Michigan limited liability company (hereinafter referred to as "Landlord"), whose office address is 100 Rural Hill, Northville, Michigan 48167, and Jogue, Inc., a Michigan corporation (hereinafter referred to as "Tenant"), whose address is 100 Rural, Northville, Michigan 48167.

### WITNESSETH:

Section 1.01 Leased Premises. Landlord, as lessor, hereby leases to Tenant, as lessee, and Tenant hereby leases from Landlord a building in the Township of Plymouth, County of Wayne and State of Michigan, located at 14731 Helm Court, Plymouth, Michigan (hereinafter sometimes called the "Leased Premises").

Section 1.02 Term. The original term ("Term") of this Lease shall be three (3) years, beginning on January 1, 2016 and terminating on December 31, 2018.

### ARTICLE II RENT

Section 2.01 Minimum Basic Rent. The minimum basic rent payable by Tenant during the Term of this Lease shall be in the amount of Three Hundred Sixty Thousand and 00/100 (\$360,000.00) Dollars payable in consecutive monthly installments of Ten Thousand and 00/100 (\$10,000.00) Dollars during the Term of this Lease. The monthly rent shall be payable by Tenant on or before the first day of each month, at the office of Landlord, without any prior demand therefore or without any deductions or setoff whatsoever.

Section 2.02 Tenant's Tax Obligation. (a) Subject to the provisions hereinafter set forth in this Section 2.02, Tenant further agrees to pay to Landlord, as additional rent, the amount of all real estate taxes, general assessments and other charges which may be levied, assessed or charged against the Leased Premises (hereinafter called "real estate taxes"), accruing or becoming due and payable during the term of this Lease. Real estate taxes for the calendar years in which the first and last Lease Years occur shall be deemed to accrue ratably over the calendar year period during which such taxes become due and payable. Landlord will annually estimate the amount of such real estate taxes and will notify Tenant of its estimate, which will be paid monthly along with the minimum rent; provided, that in the event Landlord is required under any mortgage covering the Leased Premises to escrow any real estate taxes, Landlord may, but shall not be required to, use the amount required to be so escrowed as a basis for its estimate of the monthly installments due from Tenant hereunder. If the total amount paid by Tenant under this Section 2.02 for any calendar year during

the term of this Lease shall be less than the actual amount due from Tenant for such year, as shown on such statement, Tenant shall pay to Landlord the difference between the amount paid by Tenant and the actual amount due, such deficiency to be paid within thirty (30) days after demand therefore by Landlord; and if the total amount paid by Tenant hereunder for any such calendar year shall exceed such actual amount due from Tenant for such calendar year, such excess shall be credited against the next installment of real estate taxes due from Tenant to Landlord hereunder.

(b) In the event the State of Michigan or any political subdivision thereof, or any governmental authority having jurisdiction thereover, shall impose a tax and/or assessment of any kind or nature upon, against or with respect to rentals payable by Tenant to Landlord, or on the income of Landlord derived from the Leased Premises (other than the income or single business tax), or with respect to the ownership, occupancy or rental of the land and buildings comprising the Leased Premises, either by way of substitution for all or any part of the real estate taxes levied or assessed against such land and buildings, or in addition thereto, such tax and/or assessment shall be deemed to constitute a real estate tax against such land and such buildings for purposes of this Section 2.02.

Section 2.03 Lease Year. The term "Lease Year" as used herein shall mean each calendar year during the term of this Lease, except that the first Lease Year shall begin on the commencement date of this Lease and the last Lease Year shall end on the date this Lease expires or sooner terminates.

Section 2.04 Additional Payments. Tenant shall pay any and all sums of money or charges required to be paid by Tenant under this Lease promptly when the same are due, without any deductions or setoff whatsoever. Tenant's failure to pay any such amounts or charges when due shall carry with it the same consequences as Tenant's failure to pay rent. Unless otherwise specified, all such amounts or charges shall be payable to Landlord at the place where the minimum rent is payable.

### **ARTICLE III** **ALTERATIONS OF PREMISES**

Section 3.01 Alterations. No alteration, addition, or improvement to the Leased Premises (whether or not the same may be structural in nature) shall be made by Tenant without the written consent of Landlord, which consent shall not be unreasonably withheld. Alterations, additions, and improvements shall become the property of the party making such alterations, additions, and improvements. Trade fixtures and moveable office furniture and equipment installed at Tenant's expense shall be the property of Tenant. Landlord may, by written notice, at the expiration or termination of this Lease direct Tenant to remove any alterations, additions, or improvements made by Tenant, and Tenant shall remove the same and repair any damage to the Leased Premises caused by such removal before the last day of the term or within the 30 days after a notice is given, whichever is later. Tenant shall, subject to the provisions of this section, at the end of the term hereof, surrender to Landlord the Leased Premises in the same condition as when received, ordinary

wear and tear excepted.

**ARTICLE IV**  
**MAINTENANCE OF PREMISES**

Section 4.01 Landlord and Tenant's Obligations for Maintenance. Landlord shall keep in good repair the four outer walls and roof of the Building on the Leased Premises (but not the doors, door frames, the window glass, window casings, window frames, windows or any of the appliances or appurtenances of said doors or window casings, window frames and windows, or any attachment thereto or attachments to said building used in connection therewith), except that Landlord shall not be called on to make any such repairs occasioned by the act or negligence of Tenant, its agents or employees. Tenant shall notify Landlord of any repairs which are the responsibility of the Landlord to perform. Landlord shall not be called upon to make any other improvements or repairs of any kind upon the Leased Premises and appurtenances except as provided in this Lease. Except as provided in the first sentence of this Section 4.01, Tenant agrees to kept the Leased Premises in good order, condition and repair (including all plumbing, electrical, heating, air conditioning and any other equipment installed in or on said Building), in a clean, sanitary and safe condition and in accordance with the laws of the State of Michigan, and in accordance with all directions, rules and regulations of the health officer, fire marshal, building inspector or other proper officers of the governmental agencies having jurisdiction, at the sole cost and expense of Tenant, and Tenant shall further comply with all requirements of all laws and ordinances otherwise touching or concerning the Leased Premises. If Landlord shall determine that Tenant or its employees or agents or invitees abused the plumbing facilities or the adjoining or connecting sewer lines or mains or used them for any purpose other than that for which they were constructed, or threw any kind of foreign substance therein, the expense of any breakage, stoppage, damage or additional repair resulting therefrom shall be borne by Tenant.

**ARTICLE V**  
**INSURANCE AND INDEMNIFICATION**

Section 5.01 Tenant's Public Liability Insurance Requirements. Tenant shall at all times subsequent to the commencement date and during the entire term hereof keep in full force and effect, at its sole cost and expense, the following types of insurance in the amounts specified:

(a) Comprehensive public liability and property damage insurance and product liability insurance insuring against claims for personal injury, sickness or disease and property damage, including boiler and machinery insurance, if applicable, with respect to the Premises and the streets, sidewalks and premises adjacent to the Leased Premises with a single combined public liability limit of not less than One Million Dollars (\$1,000,000.00) and with property damage liability limits of not less than Five Hundred Thousand Dollars (\$500,000.00).

(b) Fire and extended coverage insurance covering the Tenant's personal property, fixtures, improvements and alterations located on the Leased Premises, including all plate

and other glass located on the Leased Premises, against loss or damage by fire, windstorm, hail, explosion, riot, damage from aircraft and vehicles, smoke damage and vandalism and malicious mischief and such other risks as are from time to time covered under "extended coverage" endorsements in an amount equal to the full replacement value but not less than that required by Landlord's mortgagee from time to time. The proceeds from any such policy shall be used by Tenant solely for the replacement of personal property or fixtures or the restoration of Tenant's improvements or alterations.

All policies of insurance required to be maintained by Tenant shall name Landlord, Tenant and any other parties in interest designated by Landlord and Tenant as insured as their respective interests may appear, and shall contain a provision that the insurer will not cancel or change the insurance without giving Landlord thirty (30) days' prior written notice. All such policies shall provide that any loss shall be payable to Landlord and Tenant and any other parties in interest designated by Landlord notwithstanding any act or negligence of Tenant which might otherwise result in forfeiture of such insurance. Tenant shall furnish to Landlord such evidence as Landlord may require that the insurance referred to in this Section 5.01 is in full force and effect and that the premiums therefore have been paid.

Section 5.02 Tenant's Reimbursement to Landlord for Fire and Extended Insurance Requirements.

(a) Landlord shall during the term of this Lease keep in full force and effect fire and extended coverage insurance covering the buildings and other improvements located on the Leased Premises and all appurtenances thereto (except Tenant's merchandise, trade fixtures, furnishings, equipment and personal property, including signs, wall coverings, carpeting and drapes) against loss or damage by fire, windstorm, hail, explosions, riot, damage from aircraft and vehicles, smoke damage and vandalism and malicious mischief and such other risks as are from time to time covered under endorsements commonly known as "all risks" endorsements in an amount equal to the full replacement value, if available, but not less than that required by Landlord's mortgagee from time to time.

(b) Tenant agrees to pay Landlord, as additional rent, within fifteen (15) days from the invoice date, Tenant's cost of fire and extended coverage payable in any Lease Year by Landlord pursuant to Section 5.02(a) herein.

Section 5.03 Covenant to Hold Harmless. Tenant covenants to indemnify and hold harmless Landlord (except for loss or damage resulting from the negligence of Landlord, its agents or employees) from and against all claims and all costs (including attorneys' fees), expenses and liabilities incurred in connection with such claims, including any action or proceeding brought thereon, arising from or as a result of (a) any accident, injury, loss or damage whatsoever to any person or to the property of any person, including the person and property of Tenant and its employees and agents and all persons in the Leased Premises at its or their invitation or with their consent, as shall occur on or about the Leased Premises during the term of this Lease, (b) the

occupancy or use by Tenant of the Leased Premises, or (c) any act or omission whatsoever or negligence of Tenant or any subtenant, concessionaire or licensee of Tenant or its agents, contractors, servants or employees or that of any subtenant, concessionaire, licensee. It is understood and agreed that all personal property of any kind, nature or description whatsoever, kept, stored or maintained upon or in the Leased Premises shall be kept, stored or maintained at the sole risk and responsibility of Tenant exclusively.

## **ARTICLE VI UTILITY CHARGES**

Section 6.01 Utility Charges. Tenant shall pay when due for the use of all utilities for the Leased Premises, including water, gas and electricity charges consumed by it, and shall provide and pay for its own heating and air conditioning.

## **ARTICLE VII ASSIGNMENT AND SUBLETTING**

Section 7.01 Consent Required.

(a) Tenant shall not assign, sublet, mortgage or encumber this Lease or any interest in this Lease without the prior written consent of Landlord in each instance. This Lease shall not, nor shall any interest herein, be assignable as to the interest of Tenant by operation of law without the prior written consent of Landlord. Any purported assignment, encumbrance or hypothecation without Landlord's prior written consent shall be null and void.

(b) No subletting or assignment shall release Tenant of Tenant's obligation or alter the primary liability of Tenant to pay the rental and to perform all other obligations to be performed by Tenant hereunder. The acceptance of rent by Landlord from any other person shall not be deemed to be a waiver by Landlord of any provision hereof. In the event of default of any of the terms hereof, Landlord may proceed directly against Tenant without the necessity of exhausting remedies against such subletting Tenant.

## **ARTICLE VIII DEFAULT OF THE TENANT**

Section 8.01 Default. The occurrence of any of the following shall constitute an event of default:

(a) Delinquency in the payment of rent or any other amount payable by Tenant under this Lease, or any part thereof, for a period of five (5) days after notice of said default by Landlord.

(b) Delinquency by Tenant in the performance or compliance with any of the terms, covenants or agreements to be performed under this Lease, other than those described in the foregoing Section 8.01(a), and failure to rectify or remove said default(s) within thirty (30) days after written notice of such default has been given to Tenant or in the event said cure cannot be completed within said 30 day period the Tenant commences said cure within said period and in good faith continues to completion said cure.

(c) Commencement by or against Tenant of a proceeding under the United States Bankruptcy Code and the failure of the trustee to properly assume this Lease or permitting this Lease to be deemed rejected or terminated.

(d) Filing by or against Tenant in any court pursuant to any state statute of a petition in bankruptcy or insolvency, or for reorganization or rearrangement, or for the appointment of a receiver or trustee of all or a portion of Tenant's property (except when any such proceeding is filed against Tenant, Tenant shall have sixty (60) days after commencement to have such proceeding dismissed), or any assignment of the property of Tenant for the benefit of creditors.

(e) Assignment or encumbrance of this Lease or subletting of the Leased Premises other than in accordance with the terms of this Lease if such default is not cured within fifteen (15) days after written notice of such default has been mailed or delivered to Tenant by Landlord.

Section 8.02 Right to Re-enter. Upon default, Landlord, in addition to all other rights and remedies it may have, shall have the immediate right to re-enter and may remove all persons and property within the Leased Premises and store such property in a public warehouse or elsewhere at the cost of, and for the account of Tenant, all without service of notice or resort to legal process and without Landlord being deemed guilty of trespass, or liable for any loss or damage. All of the rights and remedies of Landlord under this Lease are cumulative and shall be in addition to any other rights or remedies accorded Landlord by law. Re-entry by Landlord, whether by legal action or proceedings or acceptance of possession or otherwise, shall not terminate this Lease and Tenant shall remain liable for the payment of all rent and other charges accruing hereunder and the full performance of all of Tenant's other obligations.

Section 8.03 Right to Relet. Should Landlord re-enter the Leased Premises or take possession by summary proceedings or other appropriate legal action or proceedings, or pursuant to notice provided for by law, it may from time to time, without terminating this Lease, make such alterations and repairs necessary to relet, and relet the Leased Premises or any part thereof for such term or terms (which may be for a term extending beyond the term of this Lease) and at such rental or rentals and upon such other terms and conditions as Landlord in its sole discretion may deem advisable. Upon each such reletting, all rentals and other sums received by Landlord shall be applied to the payment of rent and other charges due and unpaid hereunder and the residue, if any, shall be held by Landlord and applied in payment of future rent as the same may become due and

payable. If such rentals and other sums received from reletting are less than that to be paid by Tenant, Tenant shall immediately pay such deficiency to Landlord. Such deficiency shall be calculated and paid monthly. To enforce payment thereof, Landlord may institute as many separate or additional proceedings as may be necessary, whether in a separate lawsuit or as supplementary proceedings or other legal proceedings instituted to recover possession. Notwithstanding reletting without termination, Landlord may at any time thereafter elect to terminate this Lease for any previous breach. Should Landlord terminate this Lease for any breach, in addition to other remedies, it may recover all damages incurred by reason of such breach, including the cost of recovering and restoring the Leased Premises, reasonable attorneys' fees and the present worth at termination of the excess, if any, of the amount of rent and charges equivalent to rent reserved in this Lease for the remainder of the stated term over the then reasonable rental value of the Leased Premises for the remainder of the stated term and all such amounts shall be immediately due and payable. Such present worth shall be computed by discounting the excess to the date of termination at the rate of six percent (6%) per annum. In determining the then reasonable rental value of the Leased Premises, if the Leased Premises or any part is relet for the unexpired term of this Lease, or any part thereof, before presentation of proof of such liquidated damages, the amount of rent reserved in such reletting shall be prima facie evidence of such rental value for the part or the whole of the Leased Premises so relet. Should this Lease, at any time, be terminated under the terms and conditions hereof, or in any other way, Tenant shall immediately surrender and deliver the Leased Premises and property peaceably to Landlord.

Section 8.04 Curing of Tenant's Default. Notwithstanding anything herein contained to the contrary, if Tenant shall be in default in the performance of any of the terms or provisions of this Lease and Landlord gives notice in writing to Tenant of such default specifying the nature thereof, and Tenant fails to cure the default within the time provided or immediately if an emergency exists, the Landlord may, in addition to its other remedies, cure such default at the cost and expense of Tenant and the sums so expended by Landlord shall be deemed to be additional rent and shall be paid by Tenant on the day when rent shall next become due.

Section 8.05 Tenant's Interest in Bankruptcy. Neither this Lease nor any interest nor any estate thereby created shall pass to any trustee or receiver or assignee for the benefit of creditors or any other person or entity under or by operation of any state law.

## **ARTICLE IX**

### **SURRENDER OF PREMISES, HOLDING OVER, SUCCESSORS**

Section 9.01 Surrender of Leased Premises. On or before the expiration or earlier termination of this Lease, Tenant shall surrender to Landlord the Leased Premises, broom clean, and all of Tenant's alterations, additions, improvements and fixtures in good order and condition (excepting reasonable wear and tear occurring after the last necessary maintenance of Tenant and destruction to the Leased Premises.) Tenant shall remove all its trade fixtures and other removable personal property and perform all restoration made necessary by the removal of any such alterations, additions, improvements, fixtures or other property within the same time periods. All

such property which is not so removed within such period shall be deemed to have been abandoned by Tenant, may be retained by Landlord as its property or removed and disposed of in such manner as Landlord may see fit, and Tenant shall be liable to Landlord for any and all costs and expenses incurred in connection with any such removal and disposal, including court costs, attorneys' fees and storage charges for such property. If Tenant fails to surrender the Leased Premises to Landlord on the expiration or earlier termination of this Lease, Tenant shall hold Landlord harmless from all damages resulting from Tenant's failure to surrender the Leased Premises, including, without limitation, claims made by succeeding tenant resulting therefrom.

Section 9.02 Holding Over. Any holding over after the expiration of the term of this Lease with the consent of Landlord, shall be construed to be a tenancy from month to month at the rents herein specified and on the terms and conditions herein specified.

Section 9.03 Successors. Except as otherwise set forth herein, all rights and liabilities herein given to, or imposed upon, the respective parties hereto shall extend to and bind the several respective heirs, executors, administrators, successors and assigns of the said parties. No rights, however, shall inure to the benefit of any assignee of Tenant unless the assignment to such assignee has been approved by Landlord in writing as provided in Section 8.01 hereof.

## **ARTICLE X** **QUIET ENJOYMENT**

Section 10.01 Landlord's Covenant. Upon payment by Tenant of the rents herein provided, and upon the observance and performance of all the covenants, terms and conditions on Tenant's part to be observed and performed, Tenant shall peaceably and quietly hold and enjoy the Leased Premises for the term hereby demised without hindrance or interruption by Landlord or any other person acting through or under Landlord; subject, however, to the terms and conditions of this Lease.

Section 10.02 Non-Liability of Landlord. Landlord shall not be responsible or liable to Tenant (except for its own negligent or intentional acts) for any loss or damage that may be occasioned by or through the acts or omissions of persons occupying adjoining premises or any part of the premises adjacent to or connected with the Leased Premises or any loss or damage resulting to Tenant or its property from any burst, stopped or leaking water, gas, or sewer pipes, or for any damage or loss of property within the Leased Premises from any cause whatsoever.

## **ARTICLE XI** **MISCELLANEOUS**

Section 11.01 Liens. In the event mechanic's lien(s) shall be filed against the Leased Premises or Tenant's interest as a result of the work undertaken by Tenant, Tenant shall, within ten (10) days after receipt of notice, discharge such lien(s) by payment of the indebtedness or by filing a bond (as provided by statute) as security therefore. In the event Tenant shall fail to discharge such



lien, Landlord shall have the right to discharge by filing such bond, and Tenant shall pay the cost of the bond to Landlord as additional rent upon the first day that rent shall be due thereunder.

Section 11.02 Laws of the State of Michigan. Tenant, in order to induce Landlord to enter into this Lease, agrees that all actions or proceedings arising directly, indirectly or otherwise in connection with, out of, related to or from this Lease shall be litigated, only in courts having a situs within the County of Wayne, State of Michigan. Tenant hereby waives any right Tenant may have to transfer or change the venue of any litigation brought against Tenant by Landlord in accordance with this Section 12.02. For purposes of the foregoing, Tenant hereby consents and submits to the jurisdiction of any local, state or federal court located within said county.

Section 11.03 Entire Agreement. This Lease and the Exhibits and Addendums, if any attached set forth all the covenants, promises, agreements, conditions and understandings between Landlord and Tenant. No alteration, amendment, change or addition to this Lease shall be binding upon Landlord or Tenant unless reduced to writing and signed by each party.

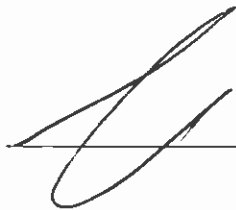
Section 11.04 Execution of Lease. If either party hereto is a partnership, limited partnership, corporation or other joint venture or association, the individual(s) executing this Lease on behalf of such entity warrant and represent that such entity is validly organized and existing and authorized to do business under the laws of the State of Michigan, that the form of entity is as set forth in the introductory paragraph of this Lease and the acknowledgements at the end of this Lease, that the entity has full power and lawful authority to enter into this Lease in the manner and form herein set forth, and that the execution of this Lease by such individual(s) is proper and sufficient to legally bind such entity in accordance with the terms and conditions hereof. If Tenant consists of more than one person or entity, then the obligations imposed on Tenant shall be joint and several.

Section 11.05 Captions and Section Numbers. The captions, article numbers, and section numbers appearing in this Lease are inserted only as a matter of convenience and in no way define, limit, construe or describe the scope or intent of such articles or sections.

IN WITNESS WHEREOF, the parties hereto hereby execute this Lease as of the day and year first above written.

WITNESSED:

N.V. Laboratories, L.L.C., a Michigan limited liability company

  
\_\_\_\_\_

By: Pushpa Sastry  
Pushpa Sastry  
Its: Member/Manager

"Landlord"

Jogue Inc., a Michigan corporation

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



Anil Sastry  
Its: President

"Tenant"



## CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

**MEETING DATE:** June 14, 2016

**ITEM: Hearing Regarding the Necessity of Sidewalk Repairs**

**PRESENTER:** Patrick J. Fellrath, P.E., Director of Public Services  
Kevin L. Bennett, Township Attorney

**OTHER INDIVIDUALS IN ATTENDANCE:** None anticipated.

**BACKGROUND:** The attached Resolution would be consistent with the Township Sidewalk Ordinance and Sidewalk Repair Program. The Board is being asked to find the necessity of the repair by the abutting property owners of sidewalk(s) found to be in need of repair(s) as listed on the attachment prepared as provided pursuant to the Township Sidewalk Inspection and Repair Program.

**ACTION REQUESTED:** Conduct a public hearing and approve the attached Resolution finding the necessity of the repair of the section(s) of sidewalk on the attached list and requiring the abutting owners to repair said sidewalk section(s) or, in default, ordering the DPW to repair said sidewalks and the Treasurer to assess the property owners for the Township's costs.

**BUDGET/ACCOUNT NUMBER:** Property owner reimbursement/General Fund

**RECOMMENDATION:** After Public Hearing and after specifically finding that the abutting property owners have been notified of the public hearing, adoption of the Resolution finding the necessity of the repair of the sidewalks and the assessment of the abutting property owners in default thereof.

**MODEL RESOLUTION:** I move to approve Resolution 2016-06-14-15 finding that the abutting property owners were notified, a public hearing was held, and the described sidewalk repair(s) are necessary for the public safety and as provided in Public Act 80 of 1989 and the Township Sidewalk Ordinance.

**ATTACHMENTS:** Resolution Finding the Necessity of Sidewalk Repairs Pursuant to the Township Sidewalk Ordinance and Sidewalk Repair Program Policy and as provided in Public Act 80 of the Public Acts of 1989.

**STATE OF MICHIGAN  
COUNTY OF WAYNE  
CHARTER TOWNSHIP OF PLYMOUTH**

**RESOLUTION 2016-06-14-15**

**RESOLUTION FINDING THE NECESSITY  
OF SIDEWALK REPAIRS**

At a regular meeting of the Charter Township of Plymouth Board of Trustees, Wayne County, Michigan, held at the Township Hall located at 9955 N. Haggerty Road, Plymouth, Michigan, on the 14<sup>th</sup> day of June, 2016, at 7:00 p.m., the following resolution was offered:

WHEREAS, the Michigan Supreme Court rules that townships must take the action necessary to ensure that sidewalks in the township are maintained and reasonably safe for pedestrian travel; and

WHEREAS, Public Act 80 of the Public Acts of 1989 provides that the Township Board may, by resolution, require the owners of lots or parcels to replace or repair sidewalks where the condition of the sidewalk necessitates replacement or repair for public health, safety and welfare; and

WHEREAS, Public Act 80 of the Public Acts of 1989 provides that notice shall be given to affected property owners and a hearing shall be conducted prior to the adoption of a resolution requiring replacement or repair of sidewalks; and

WHEREAS, the Township has adopted a Sidewalk Repair Program and the Sidewalk Repair Program specifically provides that sidewalks shall be inspected pursuant to the Administrative Guide adopted as part of that program; and

WHEREAS, the Township has conducted such inspections and has marked certain sidewalks as being in need of repair consistent with the Sidewalk Repair Program; and

WHEREAS, the affected property owners have been given notice that these sections or flags of sidewalk need to be repaired or replaced consistent with the Sidewalk Repair Program; and

WHEREAS, the affected property owners have been given notice of this public hearing whereat this Township Board shall decide upon the necessity of the sidewalk repairs as provided in Public Act 80 of 1989, the Township Sidewalk Ordinance and the Township Sidewalk Repair Program; and

WHEREAS, attached please find a list showing the square feet of sidewalk for the named lots or parcels which are identified by the Township as being in need of repair (Exhibit "A") as provided in the Township Sidewalk Repair Administrative Guide; and

WHEREAS, it is recommended, based on staff inspections, that the Township Board find that those flags and sections of sidewalk which have been marked consistent with the Sidewalk Repair Program are in need of repair; and

WHEREAS, it is the intent of this body to find that the marked sections of sidewalk identified on Exhibit "A" are in need of repair for public health, safety and welfare purposes.

NOW, THEREFORE, be it resolved the Board of Trustees of the Charter Township of Plymouth hereby resolves that the owners of lots or parcels described on Exhibit "A" shall replace or repair the flags

duly marked by the Township DPW consistent with the Sidewalk Repair Program and, for public safety reasons, finds the necessity therefore, and;

BE IT FURTHER RESOLVED that the Township shall replace or repair those portions of sidewalk upon the property owner's failure or neglect to replace or repair said sidewalk sections or flags and the Township Treasurer is directed to assess the Township's cost for replacement or repair of the sidewalk against the property involved, payable over a five (5) year period; such repair or replacement shall be according to the Construction Standards and according to the Sidewalk Repair Program Administration Guide previously adopted by this body, all as provided by Public Act 80 of the Public Acts of 1989.

**Present:** [Conzelman, Curmi, Doroshewitz, Edwards, Kelly, Mann, Price]  
**Absent:** [None]  
**Moved by:** [Conzelman]  
**Supported by:** [Curmi]

**Roll Call Vote**

**Ayes:** [Conzelman, Curmi, Doroshewitz, Edwards, Kelly, Mann, Price]  
**Nays:** [None]  
**Absent:** [None]

**Adopted:** Regular Meeting of the Board of Trustees on June 14, 2016

\_\_\_\_\_  
Nancy Conzelman, Township Clerk

**Certification of Copy**

STATE OF MICHIGAN)

COUNTY OF WAYNE )

I, Nancy C. Conzelman, Clerk of the Charter Township of Plymouth, Wayne County, State of Michigan, do hereby certify that the foregoing is a true copy of a Resolution adopted by the Charter Township of Plymouth Board of Trustees at their Regular Meeting held on the Adopted Date, the original of which is on file in my office.

\_\_\_\_\_  
Plymouth Township Clerk

\_\_\_\_\_  
Date

**Resolution:** 2016-06-14-15

2016 SIDEWALK PROGRAM

Tax ID	Property Address	Property Owner	Owner Address	City, state zip code	4" SIDEWALK	6" SIDEWALK
R-78-042-01-0004-000	50899 CHESTWICK CT	EDWARD/DIANE ZURAWSKI	50899 CHESTWICK CT	PLYMOUTH, MI 48170	15	
R-78-042-01-0005-000	50875 CHESTWICK CT	THOMAS STANISZEWSKI	50875 CHESTWICK CT	PLYMOUTH, MI 48170	15	
R-78-042-01-0016-000	13125 ANDOVER DR	THOMAS DAVEY	13125 ANDOVER DR	PLYMOUTH, MI 48170	75	
R-78-042-01-0019-000	12985 ANDOVER DR	ANTHONY M. DUVA	12985 ANDOVER DR	PLYMOUTH, MI 48170	100	
R-78-042-01-0063-000	13079 GRAEFIELD CIR	GLEN NOBLE	13079 GRAEFIELD CIR	PLYMOUTH, MI 48170	50	
R-78-042-01-0069-000	12831 WENDOVER DR	DANIEL & KELSEY LALONDE	12831 WENDOVER DR	PLYMOUTH, MI 48170	15	
R-78-042-02-0032-000	13226 GRAEFIELD CIR	JEFFREY/BEV NIERMANN	13226 GRAEFIELD CIR	PLYMOUTH, MI 48170	25	
R-78-042-04-0008-000	13212 KARL DR	MICHAEL/LILIANA SCHESTER	13212 KARL DR	PLYMOUTH, MI 48170	50	
R-78-042-04-0058-000	51044 RICHARD DR	ANDREW/PAMELA ZELAZNY	51044 RICHARD DR	PLYMOUTH, MI 48170	25	
R-78-042-04-0062-000	51069 RICHARD DR	RYAN/ERICA STOWE	51069 RICHARD DR	PLYMOUTH, MI 48170	25	
R-78-063-01-0169-000	11347 TERRY ST	JOS/KATHLEEN NEROWSKI	11347 TERRY ST	PLYMOUTH, MI 48170	25	
R-78-063-01-0175-001	11493 TERRY ST	ROGER AHO	11493 TERRY ST	PLYMOUTH, MI 48170	50	
R-78-063-01-0175-002	40519 ANN ARBOR TRL	SHEILA BARNES	40519 ANN ARBOR TRL	PLYMOUTH, MI 48170	50	
R-78-063-01-0180-000	11368 TERRY ST	ROBERT/REBECCA MOORE	11368 TERRY ST	PLYMOUTH, MI 48170	25	
R-78-063-01-0182-300	11324 TERRY ST	DANIEL HERSHBERGER	11324 TERRY ST	PLYMOUTH, MI 48170	25	
R-78-064-03-0085-001	9500 TERRY ST	CHAD THEILE	9500 Terry St	PLYMOUTH, MI 48170	25	
R-78-064-04-0237-000	40643 FIRWOOD	PATRICK/MICHELL KELM	40643 Firwood	PLYMOUTH, MI 48170	25	
R-78-064-04-0260-000	11500 HAGGERTY	SCOTT PETREE	46369 Gunnery Dr	CANTON, MI 48187	25	
R-78-064-04-0289-000	11450 RUSSELL	DENNIS J DONOHUE	11450 RUSSELL	PLYMOUTH, MI 48170	25	
R-78-064-04-0315-000	11320 MORGAN AVE	ALEXANDER BEJCZY	11320 Morgan Ave	PLYMOUTH, MI 48170	25	
R-78-064-04-0323-000	11516 MORGAN AVE	JONATHAN BOWLES	11516 Morgan Ave	PLYMOUTH, MI 48170	25	
R-78-063-01-0163-000	11195 TERRY	THOMAS & KAREN PILON	11195 TERRY	PLYMOUTH, MI 48170	25	
R-78-063-01-0166-000	11267 TERRY	DOROTHY MOSZYNSKI	11267 TERRY	PLYMOUTH, MI 48170	25	
R-78-063-01-0167-000	11289 TERRY	JOSEPH GRAYE	11289 TERRY	PLYMOUTH, MI 48170	25	
R-78-063-01-0194-000	11064 TERRY	HERMAN CUTSHAW	11064 TERRY	PLYMOUTH, MI 48170	25	
R-78-064-03-0077-000	40417 PINETREE	SUSAN PIZZUTI	40417 PINETREE	PLYMOUTH, MI 48170	25	
R-78-064-03-0082-000	9523 TERRY	SHAWN DOWNING	9523 TERRY	PLYMOUTH, MI 48170	50	
R-78-064-03-0098-000	9715 TERRY	JOHN NIEMIEC	9715 TERRY	PLYMOUTH, MI 48170	25	
R-78-064-03-0116-000	40772 ORANGELAWN	VINCENT T. SKALSKI	40772 ORANGELAWN	PLYMOUTH, MI 48170	25	
R-78-064-03-0123-000	40719 ORANGELAWN	ROBERT SINKIEWICZ	40719 ORANGELAWN	PLYMOUTH, MI 48170	25	
R-78-064-03-0134-000	40435 ORANGELAWN	ERIN & ERIK LOSSE	40435 ORANGELAWN	PLYMOUTH, MI 48170	25	
R-78-064-03-0144-000	40498 PINETREE	DAVID & ELEANORE DANISZEWSKI	40498 PINETREE	PLYMOUTH, MI 48170	25	
R-78-064-03-0150-000	40702 PINETREE	JOHN L. STEVENSON	40702 PINETREE	PLYMOUTH, MI 48170	25	
R-78-064-04-0207-000	11456 MONA CT	CECILE REY	11456 MONA CT	PLYMOUTH, MI 48170	25	
R-78-064-04-0220-000	40535 MICOL	CHRISTOPHER & DEBRA NALEY	40535 MICOL	PLYMOUTH, MI 48170	25	
R-78-064-04-0236-000	40629 FIRWOOD	RICHARD & ALICE HUMPHREY	40629 FIRWOOD	PLYMOUTH, MI 48170	25	
R-78-064-04-0265-000	11537 RUSSELL	JOHN & NANCY LOEWEN	11537 RUSSELL	PLYMOUTH, MI 48170	25	
R-78-064-04-0280-000	11232 RUSSELL	SCOTT & MARY DAVID	11232 RUSSELL	PLYMOUTH, MI 48170	25	

2016 SIDEWALK PROGRAM

Tax ID	Property Address	Property Owner	Owner Address	City, state zip code	4" SIDEWALK	6" SIDEWALK
R-78-064-04-0283-000	11314 RUSSELL	CHARLES STOUT & CAROL KNAUSS	11314 RUSSELL	PLYMOUTH, MI 48170	25	
R-78-064-04-0284-000	11330 RUSSELL	PAMYLA RICHARDSON	11330 RUSSELL	PLYMOUTH, MI 48170	25	
R-78-064-04-0306-000	11321 MORGAN	DAVID BULMER	11321 MORGAN	PLYMOUTH, MI 48170	25	
R-78-064-04-0307-000	11267 MORGAN	TRACY LEWIS	11267 MORGAN	PLYMOUTH, MI 48170	25	
R-78-064-04-0312-000	11234 MORGAN	CONNIE & MARK ZIELINSKI	11234 MORGAN	PLYMOUTH, MI 48170	25	
R-78-064-04-0327-000	11575 BROWNELL	JOHN & TERESA DE GIUSTI	11575 BROWNELL	PLYMOUTH, MI 48170	25	
R-78-064-04-0331-000	11511 BROWNELL	TIMOTHY COMBEN	11511 BROWNELL	PLYMOUTH, MI 48170	25	
R-78-064-03-0056-000	9685 RUSSELL	JOYCE GODZINSKI & MARY SIEF	9685 RUSSELL	PLYMOUTH, MI 48170	25	
R-78-036-03-0004-000	45540 MOONLIGHT	SCOTT & DENISE MERRYFIELD	45540 MOONLIGHT	PLYMOUTH, MI 48170	25	
R-78-036-03-0022-000	11752 LEIGHWOOD	JAMES & JENNIFER KEYES	11752 LEIGHWOOD	PLYMOUTH, MI 48170	25	
R-78-036-03-0030-000	45566 WOODLEIGH WAY	PATRICK COTTER	45566 WOODLEIGH WAY	PLYMOUTH, MI 48170	25	
R-78-036-03-0044-000	11985 LEIGHWOOD	NANCY DODSON	11985 LEIGHWOOD	PLYMOUTH, MI 48170	25	
R-78-036-03-0045-000	12005 LEIGHWOOD	LISA M SHAFT	12005 LEIGHWOOD	PLYMOUTH, MI 48170	50	
R-78-036-06-0063-000	11773 BEACON HILL DR	RONALD HOLLAND	11773 BEACON HILL DR	PLYMOUTH, MI 48170	50	
R-78-036-06-0065-000	11841 BEACON HILL DR	ARTHUR J MICHALAK TTEE	11841 BEACON HILL DR	PLYMOUTH, MI 48170	25	
R-78-036-06-0070-302	12045 BEACON HILL DR	WILLIAM ORLEWICZ	12045 BEACON HILL DR	PLYMOUTH, MI 48170	25	
R-78-066-01-0013-000	9067 TAVISTOCK	PAUL & SHANNON WOODWARD	9067 TAVISTOCK	PLYMOUTH, MI 48170	25	
R-78-066-01-0028-000	9145 TAVISTOCK	HERMANN & ANNA RUOFF	9145 TAVISTOCK	PLYMOUTH, MI 48170	25	
R-78-066-01-0073-000	9436 TAVISTOCK	RAY R RIVETT	9436 TAVISTOCK	PLYMOUTH, MI 48170	50	
R-78-066-01-0077-000	9394 CAPRICE CT	MICHAEL & KAREN LING	9394 CAPRICE CT	PLYMOUTH, MI 48170	25	
R-78-066-01-0083-000	9326 TAVISTOCK	ROBERT & MARGARET ROSS	9326 TAVISTOCK	PLYMOUTH, MI 48170	25	
R-78-066-01-0095-000	9162 TAVISTOCK	R & C KOTLARCZYK	9162 TAVISTOCK	PLYMOUTH, MI 48170	25	
R-78-066-01-0117-000	8988 TAVISTOCK	ERIC STARK	8988 TAVISTOCK	PLYMOUTH, MI 48170	25	
R-78-066-01-0122-000	8844 TAVISTOCK	SUSAN THIELEMAN	8844 TAVISTOCK	PLYMOUTH, MI 48170	75	
R-78-066-02-0002-301	9437 TAVISTOCK	DEAN & LINDA REINKE	9437 TAVISTOCK	PLYMOUTH, MI 48170	75	
R-78-066-02-0022-000	9200 CAPRICE DR	KENNETH & DIANNE KOZLOWSKI	9200 CAPRICE DR.	PLYMOUTH, MI 48170	25	
R-78-066-02-0027-000	9289 OAKCLIFFE	EDWARD HOWARD	9289 OAKCLIFFE	PLYMOUTH, MI 48170	25	
R-78-066-02-0054-000	8811 BRIARWOOD DR	KATIE LYNN GRAY	8811 BRIARWOOD DR	PLYMOUTH, MI 48170	25	
R-78-066-02-0066-000	8932 BRIARWOOD DR	JOYCE A HUNT	8932 BRIARWOOD DR	PLYMOUTH, MI 48170	75	
R-78-066-02-0094-000	9136 OAKCLIFFE	JESSICA & ANDREW HIRSH	9136 OAKCLIFFE	PLYMOUTH, MI 48170	25	
R-78-066-02-0102-000	9274 OAKCLIFFE	GARY & ROBERTA ODOR	9274 OAKCLIFFE	PLYMOUTH, MI 48170	25	
R-78-066-01-0026-000	9121 TAVISTOCK	KENNETH B KEES	9121 TAVISTOCK	PLYMOUTH, MI 48170	25	
R-78-066-01-0030-000	9191 WESTBURY	LORA PFLUGRAD	9191 WESTBURY	PLYMOUTH, MI 48170	50	
R-78-066-01-0031-000	9199 WESTBURY	JULIE KLINGENSMITH	9199 WESTBURY	PLYMOUTH, MI 48170	25	
R-78-066-01-0033-000	9215 WESTBURY	THOMAS LITTLE	9215 WESTBURY	PLYMOUTH, MI 48170	25	
R-78-066-01-0038-000	9271 WESTBURY	PATRICIA ANN NAGY	9271 WESTBURY	PLYMOUTH, MI 48170	50	
R-78-066-01-0041-000	9311 WESTBURY	KATHERINE PFEIFFER	9311 WESTBURY	PLYMOUTH, MI 48170	25	
R-78-066-01-0044-000	9347 WESTBURY	ROBERT SMENTOWSKI	9347 WESTBURY	PLYMOUTH, MI 48170	25	



2016 SIDEWALK PROGRAM

Tax ID	Property Address	Property Owner	Owner Address	City, state zip code	4" SIDEWALK	6" SIDEWALK
R-78-066-01-0066-000	9293 TAVISTOCK	GARY HAF	9293 TAVISTOCK	PLYMOUTH, MI 48170	25	
R-78-066-01-0100-000	9102 TAVISTOCK	EDWARD J ROSINSKI	9102 TAVISTOCK	PLYMOUTH, MI 48170	75	
R-78-066-01-0112-000	9018 TAVISTOCK	CHRISTINE BEDZ	9018 TAVISTOCK	PLYMOUTH, MI 48170	25	25
R-78-066-01-0118-000	8952 TAVISTOCK	RONALD TUPACZ	8952 TAVISTOCK	PLYMOUTH, MI 48170	25	
R-78-066-01-0121-000	8860 TAVISTOCK	JOSEPH HAYES	8860 TAVISTOCK	PLYMOUTH, MI 48170	25	
R-78-066-01-0125-000	8808 TAVISTOCK	DAVID & SUZANNE BAZNER	9435 LOUIS	REDFORD, MI 48239	25	
R-78-066-02-0011-000	9279 CAPRICE	HERBERT & DORIS RORABACHER	9279 CAPRICE	PLYMOUTH, MI 48170	50	
R-78-066-02-0029-000	9259 OAKCLIFFE	MICHAEL COLLET	9259 OAKCLIFFE	PLYMOUTH, MI 48170	50	
R-78-066-02-0059-000	8848 BRIARWOOD	KENNETH STEMPIEN JR	8848 BRIARWOOD	PLYMOUTH, MI 48170	25	
R-78-066-02-0069-000	39714 MAYVILLE	CARLEY EASTERWOOD	39714 MAYVILLE	PLYMOUTH, MI 48170	25	
R-78-066-02-0073-000	39671 SUZAN AVE	JAMES & KRISTI HOLLINGSWORTH	39671 SUZAN AVE	PLYMOUTH, MI 48170	25	
R-78-066-02-0108-000	9367 WESTBURY	HELEN HURLEY	9367 WESTBURY	PLYMOUTH, MI 48170	25	
R-78-045-02-0019-000	50475 FELLOWS HILL DR	JESSE & ANDREA VIVIAN	50475 FELLOWS HILL DR	PLYMOUTH, MI 48170	25	
R-78-045-02-0023-000	50331 FELLOWS HILL DR	MATTHEW & JULIE MODRZEJEWSKI	50331 FELLOWS HILL DR	PLYMOUTH, MI 48170	25	
R-78-045-02-0043-000	9777 FELLOWS CREEK DR	MARVIN & GERALDINE FLOWERS	9777 FELLOWS CREEK DR	PLYMOUTH, MI 48170	50	
R-78-045-02-0051-000	50700 FELLOWS CREEK CT W	THEODORE / NANCY ROBINSON	50700 FELLOWS CREEK CT W	PLYMOUTH, MI 48170	25	
R-78-045-02-0063-000	50185 OAK VIEW CT	LORI & TODD SULLIVAN	50185 OAK VIEW CT	PLYMOUTH, MI 48170	25	
R-78-045-02-0069-000	10186 FELLOWS HILL DR	JOHN P / KAREN S FLAVIN	10186 FELLOWS HILL DR	PLYMOUTH, MI 48170	75	
R-78-045-02-0097-000	10913 FELLOWS CREEK DR	GAIL GRIEGER	10913 FELLOWS CREEK DR	PLYMOUTH, MI 48170	25	
R-78-045-03-0119-000	49977 ASH CT	FARID BADRAN	49977 ASH CT	PLYMOUTH, MI 48170	25	
R-78-045-03-0133-000	49821 POWELL RIDGE CT	THOMAS CINZORI	49821 POWELL RIDGE CT	PLYMOUTH, MI 48170	50	
R-78-045-03-0165-000	11417 FELLOWS CREEK DR	DONALD / DOLORES DAVIS, JR	11417 FELLOWS CREEK DR	PLYMOUTH, MI 48170	25	
R-78-045-04-0183-000	11365 MAPLE VALLEY DR	RAYMOND & CAROLYN FLEIS	11365 MAPLE VALLEY DR	PLYMOUTH, MI 48170	25	
R-78-045-04-0187-000	11475 MAPLE VALLEY DR	NAVKANWAL DALIJI BATH	11475 MAPLE VALLEY DR	PLYMOUTH, MI 48170	25	
R-78-045-04-0199-000	11247 MAPLE RIDGE DR	ROBERT & ERIN DEMPSEY JR	11247 MAPLE RIDGE DR	PLYMOUTH, MI 48170	25	
R-78-045-04-0201-000	11303 MAPLE RIDGE DR	TIMOTHY / ENSIEH BEATHAM	11303 MAPLE RIDGE DR	PLYMOUTH, MI 48170	75	
R-78-045-04-0205-000	11411 MAPLE RIDGE DR	R HAYDN DRAMER	13411 MAPLE RIDGE DR	PLYMOUTH, MI 48170		25
	DOWNHILL/ADJACENT TO 50700 - HOA	KEVIN LAYDEN	9689 FELLOWS CREEK DR	PLYMOUTH, MI 48170	25	
	APPROX. 40' NORTH OF 9951 FELLOWS CREEK	KEVIN LAYDEN	9689 FELLOWS CREEK DR	PLYMOUTH, MI 48170	25	
	FELLOWS CREEK DR. APPROX 180' S OF MAPLE RIDGE	KEVIN LAYDEN	9689 FELLOWS CREEK DR	PLYMOUTH, MI 48170	50	
R-78-039-01-0016-000	11754 DEER CREEK RUN	DOREEN DARMANIN	11754 DEER CREEK RUN	PLYMOUTH, MI 48170	50	
R-78-039-01-0017-000	11732 DEER CREEK RUN	BRYAN & KIM TEWS	11732 DEER CREEK RUN	PLYMOUTH, MI 48170	25	
R-78-039-01-0031-000	11844 FOX RIDGE DR	CHARLES A OLSON	11844 FOX RIDGE DR	PLYMOUTH, MI 48170	25	
R-78-039-01-0032-000	11822 FOX RIDGE DR	GLENN & HEATHER PHILLIPS	11822 FOX RIDGE DR	PLYMOUTH, MI 48170	50	
R-78-039-01-0037-000	12085 DEER CREEK CT	RICHARD & EMMA WILLIAMS	12085 DEER CREEK CT	PLYMOUTH, MI 48170	75	
R-78-039-03-0082-000	12305 DEER CREEK CIR	RICHARD & MARY SPANGLER	12305 DEER CREEK CIR	PLYMOUTH, MI 48170	25	
R-78-039-03-0083-000	12327 DEER CREEK CIR	LEE & CECILY COOK	12327 DEER CREEK CIR	PLYMOUTH, MI 48170	25	



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R-78-039-03-0100-000	12106 DEER CREEK RUN	MARK & AMY ZEHR	12106 DEER CREEK CIR	PLYMOUTH, MI 48170	25	
R-78-060-01-0032-000	11440 GENERAL DR	MR & MRS WALTER TACIA	11440 GENERAL DR	PLYMOUTH, MI 48170	200	
R-78-060-01-0039-000	42007 ANN ARBOR TR	APRIL COOPER	42007 ANN ARBOR TR	PLYMOUTH, MI 48170	50	
R-78-060-01-0020-000	42032 FIRWOOD	SEAN CLEMENS	42032 FIRWOOD	PLYMOUTH, MI 48170	25	
R-78-060-01-0021-000	11326 GENERAL	KAREN SMITH	11326 GENERAL	PLYMOUTH, MI 48170	25	25
R-78-060-01-0034-300	11460 GENERAL	PLYMOUTH BAPTIST CHURCH	42021 ANN ARBOR TR	PLYMOUTH, MI 48170	200	
R-78-060-01-0042-000	11449 EASTSIDE	THOMAS BONDY	11449 EASTSIDE	PLYMOUTH, MI 48170	25	
R-78-060-01-0043-000	11439 EASTSIDE	NANCY HART	11439 EASTSIDE	PLYMOUTH, MI 48170	25	
R-78-060-01-0044-000	11429 EASTSIDE	LORI KAY CHILDS	9160 WOODBERRY	PLYMOUTH, MI 48170	25	
R-78-060-01-0063-000	11380 EASTSIDE	TIMOTHY PATINO & MARIE KREMPA	11380 EASTSIDE	PLYMOUTH, MI 48170	100	
R-78-060-01-0066-000	11426 EASTSIDE	CHRIS SERANIAN & TRACEY LAWRENCE	11426 EASTSIDE	PLYMOUTH, MI 48170	25	
R-78-039-02-0030-000	49276 FOX DR S	RAMI LAZEKI	49276 FOX DR S	PLYMOUTH, MI 48170	250	
R-78-039-02-0045-000	48880 FOX DR S	JASPREET & RAVINDER SIDHU	48880 FOX DR S	PLYMOUTH, MI 48170	50	
R-78-039-02-0047-000	49073 FOX DR N	WILLIAM & KAREN LANE	49073 FOX DR N	PLYMOUTH, MI 48170	25	
R-78-039-02-0048-000	49115 FOX DR N	JAMES & SUSAN DIXON	49115 FOX DR N	PLYMOUTH, MI 48170	25	
R-78-037-05-0003-000	13333 LATHERON DR	PHILLIP & KRISTINE BABUSKA	13333 LATHERON DR	PLYMOUTH, MI 48170	25	
R-78-037-05-0001-000	13425 LATHERON DR	CLAUDIA & ERIC ZIMMER	13425 LATHERON DR	PLYMOUTH, MI 48170		50
R-78-063-05-0004-000	11145 CHESTNUT DR	SHAWN & LINDSEY PIGNATIELLO	11145 CHESTNUT DR	PLYMOUTH, MI 48170	25	
R-78-063-05-0005-000	11133 CHESTNUT DR	BARBARA HARRIS	11133 CHESTNUT DR	PLYMOUTH, MI 48170	25	
R-78-063-05-0008-000	11097 CHESTNUT DR	ANGELA YOUNG	11097 CHESTNUT DR	PLYMOUTH, MI 48170	25	
R-78-063-05-0009-000	11085 CHESTNUT DR	JEFFREY & WENDY WATSON	11085 CHESTNUT DR	PLYMOUTH, MI 48170	25	
R-78-063-05-0010-000	11073 CHESTNUT DR	KATELYN GHILARDI	11073 CHESTNUT DR	PLYMOUTH, MI 48170	25	
R-78-063-05-0011-000	10945 CHESTNUT DR	DENNIS BROWN	10945 CHESTNUT DR	PLYMOUTH, MI 48170	50	
R-78-063-05-0014-000	11114 BUTTERNUT	SHANNON OSTROWSKI	11114 BUTTERNUT	PLYMOUTH, MI 48170	25	
R-78-063-05-0029-000	10368 CHESTNUT CT	MARCIANA E JANECKO	10368 CHESTNUT CT	PLYMOUTH, MI 48170	25	
R-78-063-05-0034-000	10528 CHESTNUT CT	JOSH & MEGHAN LIUZZO	10528 CHESTNUT CT	PLYMOUTH, MI 48170	25	
R-78-063-05-0035-000	10560 CHESTNUT CT	JAMES KUNTZ	10560 CHESTNUT CT	PLYMOUTH, MI 48170	50	
R-78-063-05-0036-000	10592 CHESTNUT CT	HARRY JACHYM	10592 CHESTNUT CT	PLYMOUTH, MI 48170	50	
R-78-063-05-0046-000	10912 CHESTNUT CT	DALE & THERESE BOULWARE	10912 CHESTNUT CT	PLYMOUTH, MI 48170	25	
R-78-063-05-0047-000	10944 CHESTNUT DR	BRAD & LINDA ROBERTS	10944 CHESTNUT DR	PLYMOUTH, MI 48170	25	
R-78-063-05-0054-000	11168 CHESTNUT DR	LINDA GARBARINO	11168 CHESTNUT DR	PLYMOUTH, MI 48170	25	
R-78-043-01-0042-000	51250 WEST HILLS DR	JOSEPH & SHARON SALVAGGIO	51250 WEST HILLS DR	PLYMOUTH, MI 48170	25	
R-78-043-01-0058-000	11681 CURRIW CT	SARA GHANNAM	11681 CURRIW	PLYMOUTH, MI 48170		25
R-78-043-01-0089-000	11744 EAST HILLS DR	GRETCHEN HOLLOWAY	11744 EAST HILLS DR	PLYMOUTH, MI 48170	25	
R-78-043-01-0147-000	51225 W HILLS DR	BOBBY GENE SKEENS	51225 W HILLS DR	PLYMOUTH, MI 48170	25	25
R-78-043-01-0072-000	11610 CHANDLER DR	EVANS & MARY FARRES	11610 CHANDLER DR	PLYMOUTH, MI 48170	60	
R-78-043-99-0005-702	50750 POWELL	RONALD & VICKI MOORE	50750 POWELL	PLYMOUTH, MI 48170	25	
R-78-017-02-0519-000	41475 CRABTREE LN	SEAN HECK	41475 CRABTREE LN	PLYMOUTH, MI 48170	50	

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R-78-017-02-0521-000	41451 CRABTREE LN	DAVID MCCRUMB	41451 CRABTREE LN	PLYMOUTH, MI 48170	50	
R-78-017-02-0581-000	41136 CRABTREE LN	KENNETH & JOANNE PAWENSKI	41136 CRABTREE LN	PLYMOUTH, MI 48170		25
R-78-017-06-0322-000	15159 ROBINWOOD	JANET SCHULTZ	15159 ROBINWOOD	PLYMOUTH, MI 48170	25	
R-78-017-07-0419-000	41442 CRESTWOOD DR	REBECCA McDONALD	41442 CRESTWOOD DR	PLYMOUTH, MI 48170	25	
R-78-017-07-0473-000	14843 GREENBRIAR CT	DAVID ERVIN	14843 GREENBRIAR CT	PLYMOUTH, MI 48170	25	
R-78-020-02-0018-001	14440 SHADYWOOD CT	BRYAN & DEBORAH LIN	14440 SHADYWOOD CT	PLYMOUTH, MI 48170	25	
R-78-020-02-0027-000	14290 SHADYWOOD LN	PAUL KIRSCH	14290 SHADYWOOD LN	PLYMOUTH, MI 48170	25	
R-78-020-02-0041-000	14295 SHADYWOOD LN	DANA ALBRIGHT	14295 SHADYWOOD LN	PLYMOUTH, MI 48170	25	
R-78-020-02-0068-000	14496 ROBINWOOD	CHRISTOPHER GUTUSKEY	14496 ROBINWOOD	PLYMOUTH, MI 48170	25	
R-78-020-02-0079-000	42047 CLEMONS RD	JOHN CARMICHAEL	42047 CLEMONS RD	PLYMOUTH, MI 48170	50	
R-78-020-02-0081-000	42071 CLEMONS RD	DALE / MARGIE REESE	42071 CLEMONS RD	PLYMOUTH, MI 48170	25	
R-78-020-02-0087-000	14437 ROBINWOOD	DAVID URBAN	14437 ROBINWOOD	PLYMOUTH, MI 48170	25	
R-78-022-01-0249-000	41121 GREENBROOK LN	NICHOLAS PROPPOP	41121 GREENBROOK LN	PLYMOUTH, MI 48170	25	
R-78-022-02-0287-000	41465 GREENBRIAR	DEAN & THERESA ROBSON	41465 GREENBRIAR LN	PLYMOUTH, MI 48170	50	
R-78-022-04-0812-000	15120 AMBER CT	LESLIE FREITAG	15120 AMBER CT	PLYMOUTH, MI 48170	25	
R-78-058-03-0017-000	9091 MAYFLOWER DR	MICHAEL & JOELLEN CURTIS	9091 MAYFLOWER DR	PLYMOUTH, MI 48170	25	
R-78-058-03-0041-000	9428 MAYFLOWER CT	PATRICK & COLLEEN KRAFT	9428 MAYFLOWER CT	PLYMOUTH, MI 48170	25	
R-78-058-03-0045-000	9354 MAYFLOWER CT	ROBERT B SHAFFER JR	9354 MAYFLOWER CT	PLYMOUTH, MI 48170	25	
R-78-058-03-0056-000	9415 BAYWOOD DR	MANUEL & KENDRA BARBERENA	9415 BAYWOOD DR	PLYMOUTH, MI 48170	25	
R-78-058-03-0069-000	9378 BAYWOOD DR	MICHAEL MAZUR	1444 N ORLEANS #5A	CHICAGO IL 60610	25	
R-78-063-03-0010-000	9917 ECKLES	GARY & DEBORAH WALKER	9917 ECKLES	PLYMOUTH, MI 48170	25	
R-78-063-03-0042-000	10016 WOLFRIVER	MICHELLE LOOMIS	10016 WOLFRIVER	PLYMOUTH, MI 48170	25	
R-78-063-03-0049-000	10057 SPIES CT	WILLIAM J WALLO	10057 SPIES CT	PLYMOUTH, MI 48170	25	
R-78-030-03-0024-000	12014 HINES CT	GERALD & MARY TAKIS	12014 HINES CT	PLYMOUTH, MI 48170	25	
R-78-030-04-0033-000	41630 LINDSAY	NICHOLAS DEMEK	41630 LINDSAY	PLYMOUTH, MI 48170	25	
R-78-057-01-0003-000	44456 CLARE	DENNIS & NICOLE WRIGHT	44456 CLARE	PLYMOUTH, MI 48170	25	
R-78-057-01-0005-000	44504 CLARE	CHARLES REISSENWEBER	44504 CLARE	PLYMOUTH, MI 48170	25	
R-78-057-01-0009-000	44596 CLARE	MATTHEW & ELLEN BECKER	44596 CLARE	PLYMOUTH, MI 48170	50	
R-78-057-01-0012-000	44800 CLARE	THE STEVEN BASSETT TRUST	44800 CLARE	PLYMOUTH, MI 48170	25	
R-78-057-01-0017-000	44729 CLARE	DEBRA FIFIELD	44729 CLARE	PLYMOUTH, MI 48170	25	
R-78-058-02-0142-000	44648 OREGON TR	ERIC & MELISSA RINKE	44648 OREGON TR	PLYMOUTH, MI 48170	25	
R-78-058-01-0003-000	44434 MARC TRAIL	ROBERT & JACLYN BAACK	44434 MARC TRAIL	PLYMOUTH, MI 48170	25	
R-78-058-01-0004-000	44448 MARC TRAIL	HIDEKI & HIROKO YAMAMOTO	44448 MARC TRAIL	PLYMOUTH, MI 48170	25	
R-78-058-01-0019-000	44776 GREGORY	JOSEPH & LAURA SHIPLEY	44776 GREGORY	PLYMOUTH, MI 48170	25	
R-78-058-01-0020-000	44784 GREGORY	ALISON GUMBEL	44784 GREGORY	PLYMOUTH, MI 48170	25	
R-78-058-01-0022-000	44800 GREGORY	MICHAEL MCINTOSH	44800 GREGORY	PLYMOUTH, MI 48170	25	
R-78-058-01-0025-000	44833 ERIK PASS	LAWRENCE CAUDILL	44833 ERIK PASS	PLYMOUTH, MI 48170	25	
R-78-058-01-0031-000	9159 MARC TRAIL	THOMAS HERMAN & MATTHEW ROBINSON	9159 MARC TRAIL	PLYMOUTH, MI 48170	50	

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R-78-058-01-0061-000	44579 MARC TRAIL	DAVID M. LIDDY	44579 MARC TRAIL	PLYMOUTH, MI 48170	25	
R-78-058-01-0063-000	44576 ERIK PASS	SANDRA GEISER	44576 ERIK PASS	PLYMOUTH, MI 48170	25	
R-78-058-01-0071-000	44462 ERIK CT	RICHARD INLOES	44462 ERIK CT	PLYMOUTH, MI 48170	25	
R-78-058-02-0087-000	9130 GREGORY	RONALD & LYNDIA TACIA	9130 GREGORY	PLYMOUTH, MI 48170	25	
R-78-058-02-0111-000	8856 GREGORY	JASON & ELISE FREDERICK	8856 GREGORY	PLYMOUTH, MI 48170		25
R-78-058-02-0139-000	44612 OREGON TRAIL	GERALD & TIA MC ARTHUR	44612 OREGON TRAIL	PLYMOUTH, MI 48170	25	
R-78-058-02-0140-000	44624 OREGON TRAIL	CAROLYN J JOHNSON	44624 OREGON TRAIL	PLYMOUTH, MI 48170	25	
R-78-058-02-0143-000	44740 OREGON TRAIL	JANELLE FENDERSON	44740 OREGON TRAIL	PLYMOUTH, MI 48170	25	
R-78-058-02-0145-000	44764 OREGON TRAIL	MERWIN & SHARLA WYGANT	44764 OREGON TRAIL	PLYMOUTH, MI 48170	25	
R-78-061-05-0013-000	8965 MANTON AVE	ROBERT CLUSCH	8965 MANTON AVE	PLYMOUTH, MI 48170	25	
R-78-022-05-0002-000	40454 COVE CT	CHARLES & ANITA YEAGER III	40454 COVE CT	PLYMOUTH, MI 48170	25	
R-78-045-01-0011-000	49633 PINE RIDGE DR	MARK & HELEN BIERLEY	49633 PINE RIDGE DR	PLYMOUTH, MI 48170	25	
R-78-045-01-0015-000	49471 PINE RIDGE CT	ANURAG GOYAL	49471 PINE RIDGE CT	PLYMOUTH, MI 48170	25	
R-78-045-01-0024-000	49402 PINE RIDGE	ARTHUR & ALEXANDRIA MACIAG	49402 PINE RIDGE	PLYMOUTH, MI 48170	25	
R-78-032-01-0028-000	654 SHELDON	EILEEN JAGER	P.O. BOX 700306-0945	PLYMOUTH, MI 48170		
R-78-032-01-0029-000	644 SHELDON	FOUNT JONES	644 SHELDON	PLYMOUTH, MI 48170	25	
R-78-032-01-0031-000	624 SHELDON	LAURA M MORELLI	624 SHELDON	PLYMOUTH, MI 48170	25	
R-78-044-01-0048-000	50044 COOKE AVE	CHRISTINE JENNIFER BODIE	50044 COOKE AVE	PLYMOUTH, MI 48170	75	
R-78-044-01-0054-000	49890 COOKE AVE	ROBERT & JENNIFER TUSTIAN	49890 COOKE AVE	PLYMOUTH, MI 48170	25	
R-78-044-01-0059-000	49792 COOKE AVE	ISSA & MUNA SALLOUM	49792 COOKE AVE	PLYMOUTH, MI 48170	25	
R-78-044-01-0061-000	49680 COOKE AVE	ALI & MONA BEYDOUN	49680 COOKE AVE	PLYMOUTH, MI 48170	25	
R-78-044-02-0094-000	12464 HOWLAND PARK DR	DAVID & ROSEMARY MARTIN	12464 HOWLAND PARK DR	PLYMOUTH, MI 48170	25	
R-78-044-02-0119-000	12559 HOWLAND PARK DR	JOSEPH & ELIZABETH VAN ESLEY	12559 HOWLAND PARK DR	PLYMOUTH, MI 48170	50	
R-78-044-02-0121-300	12516 HOWLAND PARK DR	PAUL PETERSON	12516 HOWLAND PARK DR	PLYMOUTH, MI 48170	50	
R-78-044-02-0128-000	12306 HOWLAND PARK DR	JOHN KEMSKI	12306 HOWLAND PARK DR	PLYMOUTH, MI 48170	25	
R-78-017-09-0031-000	15020 PLYMOUTH CROSSING	RUSSELL & KARA BURNS	15020 PLYMOUTH CROSSING	PLYMOUTH, MI 48170	25	
R-78-061-04-0029-000	9169 HACKBERRY	STEVEN PRYCE	9169 HACKBERRY	PLYMOUTH, MI 48170	25	
R-78-061-04-0054-000	9130 REDBUD	DANIEL OAKES	9130 REDBUD AVE	PLYMOUTH, MI 48170	25	
R-78-061-04-0058-000	42423 APPLE CREEK DR	DAVID HERRON	42423 APPLE CREEK DR	PLYMOUTH, MI 48170	25	
R-78-061-04-0064-000	9184 REDBUD AVE	JEFFERY & SANDRA NIEUWKOOP	9184 REDBUD AVE	PLYMOUTH, MI 48170	25	
R-78-061-06-0019-000	8986 HACKBERRY	WILLIAM BREWINGTON	8986 HACKBERRY	PLYMOUTH, MI 48170	25	
R-78-061-99-0010-703	9161 LILLEY	ROBERT & JUDITH BUDLONG	9161 LILLEY RD	PLYMOUTH, MI 48170	25	
R-78-061-04-0022-000	9263 HACKBERRY	DANTE MASCIULLI	9263 HACKBERRY	PLYMOUTH, MI 48170	25	
R-78-061-04-0024-000	9229 HACKBERRY	LESLIE ANN DILLON	9229 HACKBERRY	PLYMOUTH, MI 48170	50	
R-78-061-04-0027-000	9193 HACKBERRY	MARY C FIELD	9193 HACKBERRY	PLYMOUTH, MI 48170	25	
R-78-061-04-0028-000	9181 HACKBERRY	DIANE & JAMES ALLEN	9181 HACKBERRY	PLYMOUTH, MI 48170	25	
R-78-061-04-0040-000	9184 HACKBERRY	BETTY L LOCKWOOD	9184 HACKBERRY	PLYMOUTH, MI 48170	50	
R-78-061-04-0048-000	9167 REDBUD	NEIL NORDHAUS	9167 REDBUD	PLYMOUTH, MI 48170	25	

2016 SIDEWALK PROGRAM

Tax ID	Property Address	Property Owner	Owner Address	City, state zip code	4" SIDEWALK	6" SIDEWALK
R-78-061-04-0053-000	42507 APPLE CREEK	IASON & LINDSAY SCHOENHEIDE	42507 APPLE CREEK	PLYMOUTH, MI 48170		25
R-78-061-04-0057-000	42435 APPLE CREEK	NATHAN & MICHELLE TRIPP	42435 APPLE CREEK	PLYMOUTH, MI 48170		25
R-78-061-04-0060-000	42434 APPLE CREEK	MARK MORIN	42434 APPLE CREEK	PLYMOUTH, MI 48170		25
R-78-061-04-0066-000	9200 REDBUD	WAYNE MACDONALD	9200 REDBUD	PLYMOUTH, MI 48170		25
R-78-061-04-0070-000	9236 REDBUD	PERRY & MARCELYN KUIPERS	9236 REDBUD	PLYMOUTH, MI 48170		25
R-78-061-04-0071-000	9244 REDBUD	CURTIS & KAREN DENNIS	9244 REDBUD	PLYMOUTH, MI 48170		25
R-78-061-04-0072-000	9244 HACKBERRY	MICHAEL BOCHENEX	9244 HACKBERRY	PLYMOUTH, MI 48170		25
R-78-061-04-0074-000	42569 POSTIFF	DYNASTY BUILDERS INC	13055 MYSTIC FOREST DR	PLYMOUTH, MI 48170		25
R-78-061-04-0078-000	42521 POSTIFF	CHERYL KNOX	42521 POSTIFF	PLYMOUTH, MI 48170		25
R-78-061-04-0010-000	9134 MANTON AVE	TIMOTHY COMAN	9134 MANTON AVE	PLYMOUTH, MI 48170		25
R-78-061-04-0002-000	42739 JUDSON	ELAINE E DOUGHTY	42739 JUDSON	PLYMOUTH, MI 48170		50
R-78-061-04-0003-000	42725 JUDSON	PHILIP BURNS	42725 JUDSON	PLYMOUTH, MI 48170		25
R-78-061-04-0001-000	42753 JUDSON	MURAT YASHIN	42753 JUDSON	PLYMOUTH, MI 48170		50
R-78-061-06-0008-000	42450 REVERE	JAMES FEHLNER	42450 REVERE	PLYMOUTH, MI 48170		25
R-78-061-06-0025-000	9037 HACKBERRY	DAVID MABEN	9037 HACKBERRY	PLYMOUTH, MI 48170		25
R-78-011-02-0003-000	13621 BURNING TREE LN	DARYL & COLLEEN LABUMBARD	13621 BURNING TREE LN	PLYMOUTH, MI 48170		25
R-78-011-02-0016-000	46621 BURNING TREE LN	WALID & NANCY RAMLAWI	46621 BURNING TREE LN	PLYMOUTH, MI 48170		25
R-78-053-02-0003-000	46310 ACADEMY DR	RENE THIBAUT	46310 ACADEMY DR	PLYMOUTH, MI 48170		100
R-78-053-02-0005-000	11141 ACADEMY DR	MICHAEL & ALEXANDRA STANDKE	11141 ACADEMY DR	PLYMOUTH, MI 48170		75
R-78-053-02-0007-000	11201 ACADEMY CT	JAMES & COLLEEN ENGLAND	11201 ACADEMY CT	PLYMOUTH, MI 48170		25
R-78-053-02-0011-000	11180 ACADEMY CT	STEPHEN P TACKETT	11180 ACADEMY CT	PLYMOUTH, MI 48170		50
R-78-053-02-0023-000	46039 QUAIL RIDGE DR	THOMAS & CATHRYN PENNEBAKER	46039 QUAIL RIDGE DR	PLYMOUTH, MI 48170		25
R-78-053-02-0025-000	46065 QUAIL RIDGE DR	ROBERT & JOANNE LEON JR	46065 QUAIL RIDGE DR	PLYMOUTH, MI 48170		50
R-78-053-02-0027-000	46255 QUAIL RIDGE DR	JOSEPH PERKO	46255 QUAIL RIDGE DR	PLYMOUTH, MI 48170		15
R-78-053-02-0033-000	46384 QUAIL RIDGE DR	GREGORY & KRISTA BRENNY	46384 QUAIL RIDGE DR	PLYMOUTH, MI 48170		25
R-78-053-02-0037-000	46280 GREEN VALLEY CT	MICHAEL & ESTELLE QUIANSKY	46280 GREEN VALLEY CT	PLYMOUTH, MI 48170		25
R-78-053-02-0043-000	46136 GREEN VALLEY CT	MARTIN GYGAN	46136 GREEN VALLEY CT	PLYMOUTH, MI 48170		50
R-78-053-02-0044-000	46112 GREEN VALLEY	THOMAS & JANET LATKA LIVING TRUST	46112 GREEN VALLEY	PLYMOUTH, MI 48170		50
R-78-053-02-0046-000	46064 GREEN VALLEY	RONALD J LYNN	46064 GREEN VALLEY	PLYMOUTH, MI 48170		25
R-78-053-02-0048-000	46016 GREEN VALLEY	VALENTINO & CONCE TONILO	46016 GREEN VALLEY	PLYMOUTH, MI 48170		25
R-78-053-02-0049-000	45992 GREEN VALLEY	PAMELA D STOPPER	45992 GREEN VALLEY	PLYMOUTH, MI 48170		25
R-78-053-02-0051-000	45944 GREEN VALLEY	ANDREW KING	45944 GREEN VALLEY	PLYMOUTH, MI 48170		25
R-78-053-02-0054-000	45993 GREEN VALLEY	DIANE PARISI	45993 GREEN VALLEY	PLYMOUTH, MI 48170		100
R-78-053-02-0057-000	46069 GREEN VALLEY	THOMAS & ELIZABETH SWEENEY	46069 GREEN VALLEY	PLYMOUTH, MI 48170		25
R-78-053-02-0067-000	46096 QUAIL RIDGE DR	BERNARD & LUCY PORTELLI	46096 QUAIL RIDGE DR	PLYMOUTH, MI 48170		25
R-78-053-02-0068-000	46048 QUAIL RIDGE DR	KENNETH R BLADZIK	46048 QUAIL RIDGE DR	PLYMOUTH, MI 48170		25
R-78-053-02-0070-000	11209 BELLWOOD DR	BRIAN & JOYCE LUCAS	11209 BELLWOOD DR	PLYMOUTH, MI 48170		25
R-78-053-02-0072-000	11295 BELLWOOD DR	ROBERT WAS	11295 BELLWOOD DR	PLYMOUTH, MI 48170		50

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R-78-053-02-0073-000	11335 BELLWOOD DR	ROBERT & CAROL BALL	11335 BELLWOOD DR	PLYMOUTH, MI 48170	35	
R-78-053-02-0076-000	11344 BELLWOOD DR	FRANCIS & MARIGRACE WUILLAUME	11344 BELLWOOD DR	PLYMOUTH, MI 48170	25	
R-78-053-02-0077-000	11310 BELLWOOD DR	RICHARD ROHRBORN	11310 BELLWOOD DR	PLYMOUTH, MI 48170	75	
R-78-053-02-0078-000	11274 BELLWOOD DR	DENNIS & CYNTHIA SAULSBERRY	11274 BELLWOOD DR	PLYMOUTH, MI 48170		50
R-78-053-02-0086-000	45997 ACADEMY DR	ANN M VENTURA	45997 ACADEMY DR	PLYMOUTH, MI 48170		50
R-78-053-02-0088-000	46069 ACADEMY DR	SALLY BERGER	46069 ACADEMY DR	PLYMOUTH, MI 48170	25	
R-78-053-02-0092-000	46239 ACADEMY DR	SETH & KATHLEEN FISHER	46239 ACADEMY DR	PLYMOUTH, MI 48170	50	
R-78-053-02-0093-000	46275 ACADEMY DR	HARRY ACKLEY	46275 ACADEMY DR	PLYMOUTH, MI 48170	50	
R-78-053-02-0096-000	46381 ACADEMY DR	RYAN SCHILLING	46381 ACADEMY DR	PLYMOUTH, MI 48170	50	
R-78-050-01-0172-000	9950 HILLCREST	LORRAINE BOXBERGER	9950 HILLCREST	PLYMOUTH, MI 48170	25	
R-78-050-04-0378-000	10986 RED MAPLE	THOMAS & SUSAN CIARELLI	10986 RED MAPLE DR	PLYMOUTH, MI 48170	25	
R-78-050-03-0269-000	48940 PINE HILL DR	MICHAEL & PAMELA STATON	48940 PINE HILL DR	PLYMOUTH, MI 48170	25	
R-78-050-03-0276-000	49300 PINE HILL DR	JEFFREY FISHER	49300 PINE HILL DR	PLYMOUTH, MI 48170	25	25
R-78-050-01-0164-000	9821 NORMANDY DR	THOMAS R / MELISSA HENAUGHEN	9821 NORMANDY DR	PLYMOUTH, MI 48170	25	
R-78-050-01-0084-000	48592 MEADOW	THERESA LOMBARDI	48592 MEADOW	PLYMOUTH, MI 48170	35	
R-78-050-01-0042-000	48638 PINE HILL DR	DONALD HELMSTADTER	48638 PINE HILL DR	PLYMOUTH, MI 48170	25	
R-78-050-01-0081-000	48496 MEADOW CT	CHAD & ROSINA DUSSEAU	48496 MEADOW CT	PLYMOUTH, MI 48170	75	
R-78-050-01-0142-000	48745 PINE HILL DR	THOMAS & JENNIFER BICKNELL	48745 PINE HILL DR	PLYMOUTH, MI 48170	50	
R-78-050-01-0156-000	48810 NORMANDY CT W	KELLY & DENISE RONAYNE	48810 NORMANDY CT W	PLYMOUTH, MI 48170	25	
R-78-050-02-0227-000	9490 WINTERSET CIR	EDWIN SCHULZ	9490 WINTERSET CIR	PLYMOUTH, MI 48170	75	
R-78-050-01-0024-000	9934 NORMANDY	JOHN BONMARITO	9934 NORMANDY	PLYMOUTH, MI 48170	75	
R-78-050-04-0330-000	48986 PLUM TREE CT	JAMES TRUSKIN	48986 PLUM TREE CT	PLYMOUTH, MI 48170	75	
R-78-051-02-0026-000	49073 QUAIL RUN DR S	CHARLES MOEN	49073 QUAIL RUN DR S	PLYMOUTH, MI 48170	50	25
R-78-030-02-0005-000	11860 RIVERSIDE	LAURA & MIKAL MORRIS	11860 RIVERSIDE	PLYMOUTH, MI 48170	25	
R-78-030-02-0006-000	11906 RIVERSIDE	AURELIA HOGG	11906 RIVERSIDE	PLYMOUTH, MI 48170	75	
R-78-030-03-0018-000	42026 LINDSAY	EUGENE O ROGERS	42026 LINDSAY	PLYMOUTH, MI 48170	25	25
R-78-030-03-0020-000	42037 RIVER OAKS	EVAN MCWILLIAMS	42037 RIVER OAKS	PLYMOUTH, MI 48170	25	
R-78-030-03-0029-000	12114 HINES CT	CASS & ANGELA MAIORANA	12114 HINES CT	PLYMOUTH, MI 48170		35
R-78-030-04-0025-000	41851 RIVER OAKS	DOUGLAS HAMMOND	41851 RIVER OAKS	PLYMOUTH, MI 48170	50	
R-78-030-05-0060-000	41755 LINDSAY	CHARLIE E HARRIS	41755 LINDSAY	PLYMOUTH, MI 48170	25	
R-78-030-99-0017-000	11706 RIVERSIDE DR	CLOCKMAKER II LLC	16780 ABBY CIRCLE	NORTHVILLE, MI 48168	25	
R-78-007-02-0097-000	13576 HILL TOP DR W	JOSEPH & MARGARET CHEMELO	13576 HILL TOP DR W	PLYMOUTH, MI 48170	35	
R-78-007-02-0124-000	48660 TIMBER CREST CT	JENNIFER PAWLOWSKI	48660 TIMBER CREST CT	PLYMOUTH, MI 48170	50	
R-78-007-02-0144-000	13982 PLEASANT VIEW CT	STEVEN & LAURIE LONGEWAY	13982 PLEASANT VIEW CT	PLYMOUTH, MI 48170	25	
R-78-037-03-0021-000	48044 HILL TOP DR E	SCOTT & DINA MARZOLINO	48044 HILL TOP DR E	PLYMOUTH, MI 48170	25	
R-78-032-02-0003-000	12236 APPLETREE	JOAN L ANDERSON	12236 APPLETREE	PLYMOUTH, MI 48170	35	
R-78-032-02-0008-000	12116 APPLETREE	MATTHEW & DEBORAH WAGNER	12116 APPLETREE	PLYMOUTH, MI 48170	25	
R-78-032-02-0018-000	11750 APPLETREE	RAYMOND & BARBARA SMITH	11750 APPLETREE	PLYMOUTH, MI 48170	25	

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R-78-032-02-0032-000	45039 GOV BRADFORD	BARBARA KRANKEL	45039 GOV BRADFORD	PLYMOUTH, MI 48170	25	
R-78-032-02-0033-000	45057 GOV BRADFORD	JASON & TIFFANY GIBSON	45057 GOV BRADFORD	PLYMOUTH, MI 48170	25	
R-78-032-02-0037-000	44982 GOV BRADFORD	RICHARD L HOLLOWAY	44982 GOV BRADFORD	PLYMOUTH, MI 48170	75	
R-78-032-02-0040-000	44928 GOV BRADFORD	CHRISTOPHER TESLAK	44928 GOV BRADFORD	PLYMOUTH, MI 48170	25	
R-78-032-02-0058-000	11871 APPLETREE	SCOTT & HOLLY BOLESKI	11871 APPLETREE	PLYMOUTH, MI 48170	25	
R-78-032-02-0059-000	11909 APPLETREE	BRENT CHARLES HAASE	11909 APPLETREE	PLYMOUTH, MI 48170	25	
R-78-032-02-0061-000	11945 APPLETREE	ZELKO DELJEVIC	11945 APPLETREE	PLYMOUTH, MI 48170	25	
R-78-032-02-0062-000	11967 APPLETREE	BRUCE & LORAIN WEBSTER	11967 APPLE TREE	PLYMOUTH, MI 48170	25	
R-78-032-02-0064-000	12000 TRAILWOOD	ARTHUR DONNELLY	12000 TRAILWOOD	PLYMOUTH, MI 48170	50	
R-78-032-02-0075-000	11823 TRAILWOOD	EDWARD & SANDI ROSENQUIST	11823 TRAILWOOD	PLYMOUTH, MI 48170	25	
R-78-032-02-0089-000	44815 DEER RUN	DAVID & TRACEY VENNING	44815 DEER RUN	PLYMOUTH, MI 48170	25	
R-78-032-02-0091-000	44917 DEER RUN	NANCY GULLET	44917 DEER RUN	PLYMOUTH, MI 48170	25	
R-78-032-02-0097-000	12044 TALL TREE	ANDREA LAZARSKI	12044 TALL TREE	PLYMOUTH, MI 48170	25	50
R-78-032-02-0100-000	11890 TALL TREE	J CUMMINS ROGERS	11890 TALL TREE	PLYMOUTH, MI 48170	25	
R-78-032-02-0112-000	12065 TALL TREE	PHILIP & TRUDE NOBLE	12065 TALL TREE	PLYMOUTH, MI 48170	25	
R-78-032-02-0122-000	11832 CANTON CENTER	SCOTT & TRINA PHEIFFER	11832 CANTON CENTER	PLYMOUTH, MI 48170	25	
R-78-032-02-0134-000	12055 CANTON CENTER	STEPHEN L BUSCH	12055 CANTON CENTER	PLYMOUTH, MI 48170	25	
R-78-032-02-0149-000	11745 WILDWING	DEBORAH TEICHMAN	11745 WILDWING	PLYMOUTH, MI 48170	25	
R-78-032-02-0161-000	12111 ARROWHEAD CT	CHERYL KLOBUCAR	12111 ARROWHEAD CT	PLYMOUTH, MI 48170	50	
R-78-032-02-0162-000	12127 ARROWHEAD CT	DAVID SMIATACZ	12127 ARROWHEAD CT	PLYMOUTH, MI 48170	50	
R-78-032-02-0165-000	12255 CANTON CENTER	ERIC & HOLLY LIGHT	12255 CANTON CENTER	PLYMOUTH, MI 48170	25	
R-78-032-02-0169-000	45040 DEER RUN	ROBERT & KENDALL CUSMANO	45040 DEER RUN	PLYMOUTH, MI 48170	25	
R-78-032-02-0175-000	12214 CHERRYWOOD CT	ELI OWEN NICHOLS	12214 CHERRYWOOD CT	PLYMOUTH, MI 48170	50	
R-78-032-02-0182-000	12215 APPLETREE	CHADWICK HORLINGS	12215 APPLETREE	PLYMOUTH, MI 48170	25	
R-78-032-02-0183-000	12235 APPLETREE	JULIE SKUBIK	12235 APPLETREE	PLYMOUTH, MI 48170	75	
R-78-053-01-0377-000	9741 CANTON CENTER RD	THOMAS STORCH	9741 CANTON CENTER RD	PLYMOUTH, MI 48170		25
R-78-053-01-0381-000	9869 DORIAN DR	JOHN G WARNCKE	9869 DORIAN DR	PLYMOUTH, MI 48170	25	
R-78-053-01-0389-000	45885 DENISE	THOMAS & KAREN RHEA	45885 DENISE	PLYMOUTH, MI 48170	25	
R-78-053-01-0397-000	45852 TURTLEHEAD	DANIEL & ALFREDA HALL	45852 TURTLEHEAD	PLYMOUTH, MI 48170	25	
R-78-053-01-0402-000	45734 TURTLEHEAD CT N	JOHN & AUDREY LEBLANC	45734 TURTLEHEAD CT N	PLYMOUTH, MI 48170	25	
R-78-053-01-0403-000	45716 TURTLEHEAD CT N	MATTHEW & KATHLEEN VAN RUITEN	45716 TURTLEHEAD CT N	PLYMOUTH, MI 48170	25	
R-78-053-01-0404-000	45698 TURTLEHEAD CT N	ERNEST SHEDD	45698 TURTLEHEAD CT N	PLYMOUTH, MI 48170	25	
R-78-053-01-0407-000	45644 TURTLEHEAD CT N	JEFF & CHRISTINE MC CARTHY	45644 TURTLEHEAD CT N	PLYMOUTH, MI 48170	75	
R-78-053-01-0410-000	45590 TURTLEHEAD	MICHAEL & LAURA NUNLEY	45590 TURTLEHEAD	PLYMOUTH, MI 48170		25
R-78-053-01-0411-000	45572 TURTLEHEAD CT N	QUALLS FAMILY LIVING TRUST	858 ANDOVER DR	NORTHVILLE, MI 48167	25	
R-78-053-01-0415-000	45500 TURTLEHEAD CT N	RYAN & BARBARA HOFFMAN	45500 TURTLEHEAD CT N	PLYMOUTH, MI 48170	50	
R-78-053-01-0424-000	45627 TURTLEHEAD CT S	ANTHONY TERTEL	45627 TURTLEHEAD CT S	PLYMOUTH, MI 48170	25	
R-78-053-01-0425-000	45775 TURTLEHEAD	DON & LAURIE POCOCK	45775 TURTLEHEAD	PLYMOUTH, MI 48170	25	

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R-78-053-01-0444-000	9715 TENNYSON	STEVEN HOLDEN	9715 TENNYSON	PLYMOUTH, MI 48170		50
R-78-053-01-0445-000	9735 TENNYSON	ALEXANDER & MONICA VAN ASSCHE	9735 TENNYSON	PLYMOUTH, MI 48170	25	
R-78-053-01-0452-000	9933 TENNYSON	ROY DEAN WALKER	9933 TENNYSON	PLYMOUTH, MI 48170	25	50
R-78-053-01-0454-000	9997 TENNYSON	DALE E BOGARD	9997 TENNYSON	PLYMOUTH, MI 48170	25	
R-78-053-01-0458-000	10155 TENNYSON	DOMINIC & MARCIA SMITH	10155 TENNYSON	PLYMOUTH, MI 48170	25	
R-78-053-01-0468-000	10164 TENNYSON	NORMAN & JOAN RODEN	10164 TENNYSON	PLYMOUTH, MI 48170	25	
R-78-053-01-0469-000	10132 TENNYSON	STEPHEN & JULIE ESTEY	10132 TENNYSON	PLYMOUTH, MI 48170		25
R-78-053-01-0474-000	9980 TENNYSON	DOUGLAS & JULIE JOHNSTON	9980 TENNYSON	PLYMOUTH, MI 48170	25	
R-78-053-01-0475-000	9950 TENNYSON	CHRISTOPHER & LAILA POISSON	9950 TENNYSON	PLYMOUTH, MI 48170	100	
R-78-053-01-0494-000	45568 DENISE CT	DAVID & DIANNE LILLER	45568 DENISE CT	PLYMOUTH, MI 48170	75	
R-78-053-01-0496-000	9937 DORIAN DR	THOMAS OKASINSKI	9937 DORIAN DR	PLYMOUTH, MI 48170	25	
R-78-053-01-0498-000	10025 DORIAN DR	ROBERT & RHONDA PERRY	10025 DORIAN DR	PLYMOUTH, MI 48170	25	
R-78-053-01-0499-000	10061 DORIAN DR	LAURIE WAGNER	10061 DORIAN DR	PLYMOUTH, MI 48170	25	
R-78-053-01-0504-000	45567 PURCELL	MATTHEW & NICOLE PULICK	45567 PURCELL	PLYMOUTH, MI 48170	25	
R-78-053-01-0505-000	45601 PURCELL	JOHN & KELLY SCHNDES	45601 PURCELL	PLYMOUTH, MI 48170	25	
R-78-053-01-0506-000	45633 PURCELL	THOMAS & KELLY KUHN	45633 PURCELL	PLYMOUTH, MI 48170	25	
R-78-053-01-0511-000	45802 PURCELL	LORRAINE C MCILIN	45802 PURCELL	PLYMOUTH, MI 48170	25	
R-78-053-01-0515-000	45664 PURCELL	GREGORY & VICTORIA BETZ	45664 PURCELL	PLYMOUTH, MI 48170	25	
R-78-053-01-0520-000	45502 PURCELL	JASON & JENNIFER WILSON	45502 PURCELL	PLYMOUTH, MI 48170	50	
R-78-053-01-0522-000	45547 GREEN VALLEY	JOHN & DEBORAH AGAR JR	45547 GREEN VALLEY	PLYMOUTH, MI 48170	25	
R-78-053-01-0523-000	45569 GREEN VALLEY	MEISSNER FAMILY TRUST	45569 GREEN VALLEY	PLYMOUTH, MI 48170	25	
R-78-053-01-0535-000	45836 GREEN VALLEY	KIRK & ELIZABETH CARLSON	45836 GREEN VALLEY	PLYMOUTH, MI 48170	25	
R-78-053-01-0539-000	45704 GREEN VALLEY	LARRY J FALCO	45704 GREEN VALLEY	PLYMOUTH, MI 48170	25	
R-78-053-01-0542-000	45602 GREEN VALLEY	GEORGE HARRISON	45602 GREEN VALLEY	PLYMOUTH, MI 48170	25	
R-78-053-01-0547-000	10276 DORIAN DR	MARK & LINDA MANCHESTER	10276 DORIAN DR	PLYMOUTH, MI 48170	25	
R-78-053-01-0548-000	10244 DORIAN DR	JEFFREY & LEESA KULCZYCKI	10244 DORIAN DR	PLYMOUTH, MI 48170	25	
R-78-053-01-0549-000	10212 DORIAN DR	RICHARD & JUDITH SAMECK	10212 DORIAN DR	PLYMOUTH, MI 48170	25	
R-78-053-01-0551-000	10142 DORIAN DR	DOUG RITTER	10142 DORIAN DR	PLYMOUTH, MI 48170	25	
R-78-053-01-0554-000	10036 DORIAN DR	GRANT & CAROL MAYER	10036 DORIAN DR	PLYMOUTH, MI 48170	75	
R-78-053-01-0557-000	9932 DORIAN DR	RICHARD & KIM HALL	9932 DORIAN DR	PLYMOUTH, MI 48170	25	
R-78-057-04-0206-000	9680 MELLOWOOD CT	JAMES & JACQUELIN KNITTEL	9680 MELLOWOOD CT	PLYMOUTH, MI 48170	25	
R-78-057-04-0212-000	9670 BAYWOOD	ELAND & JACQUELINE PRICE	9670 BAYWOOD	PLYMOUTH, MI 48170	100	
R-78-057-04-0235-000	45067 PINETREE	JAMES MULHOLLAND	45067 PINETREE	PLYMOUTH, MI 48170	25	
R-78-057-04-0236-000	9751 BAYWOOD	SHERRILL RICKETTS	9751 BAYWOOD	PLYMOUTH, MI 48170	25	
R-78-057-04-0270-000	10225 CREEKWOOD CR	HEDWIG J MACZKO	10225 CREEKWOOD CR	PLYMOUTH, MI 48170	25	
R-78-057-04-0292-000	10158 CREEKWOOD CR	LOUIS L REPKO	10158 CREEKWOOD CR	PLYMOUTH, MI 48170	25	
R-78-057-04-0301-000	45124 BROOKSIDE CT	THERESA FALLON	45124 BROOKSIDE CT	PLYMOUTH, MI 48170	25	
R-78-057-04-0306-000	10200 TRAILWOOD	JAMES & ANGELA MILLER	10200 TRAILWOOD	PLYMOUTH, MI 48170	25	

2016 SIDEWALK PROGRAM

Tax ID	Property Address	Property Owner	Owner Address	City, state zip code	4" SIDEWALK	6" SIDEWALK
R-78-057-04-0318-000	10325 TRAILWOOD	WILLIAM BREWER	10325 TRAILWOOD	PLYMOUTH, MI 48170	25	
R-78-057-04-0325-000	45240 WOODLEIGH CT	ROBERT & MARY WIND	45240 WOODLEIGH CT	PLYMOUTH, MI 48170	25	
R-78-057-04-0336-000	10467 TRAILWOOD	LINDA RADTKE	10467 TRAILWOOD	PLYMOUTH, MI 48170	25	
R-78-057-04-0339-000	10361 TRAILWOOD	JOSEPH A URBAN, TRUSTEE	10361 TRAILWOOD	PLYMOUTH, MI 48170	25	
R-78-057-04-0340-000	10667 TRAILWOOD	JAMES P WHITING	10667 TRAILWOOD	PLYMOUTH, MI 48170	25	
R-78-057-04-0368-000	9901 CANTON CENTER	JOSEPH & KATHRYN CONNOR	9901 CANTON CENTER	PLYMOUTH, MI 48170		50
R-78-057-99-0004-002	44567 PINETREE	LOUIS WRIGHT	44567 PINE TREE	PLYMOUTH, MI 48170	25	
R-78-056-04-0035-000	45662 PRIMROSE CT	MARK GOODWIN	45662 PRIMROSE CT	PLYMOUTH, MI 48170	25	
R-78-056-04-0042-000	45860 PRIMROSE CT	DANIEL & CRISTINE BOBEE	45860 PRIMROSE CT	PLYMOUTH, MI 48170		25
R-78-056-04-0043-000	45859 PRIMROSE CT	WILLIAM & VIRGINIA CARNES	45859 PRIMROSE CT	PLYMOUTH, MI 48170	25	
R-78-056-04-0044-000	45827 PRIMROSE CT	KEVIN & KERI MUELLER	45827 PRIMROSE CT	PLYMOUTH, MI 48170	25	
R-78-056-04-0045-000	45795 PRIMROSE CT	MICHAEL SERDIUK	45795 PRIMROSE CT	PLYMOUTH, MI 48170	25	
R-78-056-04-0049-000	8897 TRILLIUM LN	GEORGE PLACINTA	8897 TRILLIUM LN	PLYMOUTH, MI 48170	25	
R-78-056-04-0012-000	45620 TRILLIUM CT E	TARWHAT & RENEE TARMOOM	45620 TRILLIUM CT E	PLYMOUTH, MI 48170	25	
R-78-056-04-0019-000	45872 ROCKLEDGE DR WEST SIDE OF TRILLIUM LN APPROX 95' SOUTH OF TRILLIUM CT W (HOA RESPONSIBILITY)	DAVID & NANCY MERKEL	45872 ROCKLEDGE DR	PLYMOUTH, MI 48170	25	75
R-78-063-02-0004-000	39844 ANN ARBOR TR	BETTY LESNIAK	39844 ANN ARBOR TR	PLYMOUTH, MI 48170	25	
R-78-063-02-0019-000	11226 PARKVIEW	MICHELLE MOORADIAN	11226 PARKVIEW	PLYMOUTH, MI 48170	25	
R-78-063-02-0023-000	11298 PARKVIEW	EMILY SIMON	20472 BROOKWOOD	DEARBORN HTS, MI 48127	25	
R-78-063-02-0024-000	11316 PARKVIEW	ROBERT W CARLTON	11316 PARKVIEW	PLYMOUTH, MI 48170	25	
R-78-063-02-0025-000	11334 PARKVIEW	FRANCINE M HUDAK	11334 PARKVIEW	PLYMOUTH, MI 48170	25	
R-78-063-02-0031-000	11442 PARKVIEW	SALLY WILLIAMS	11442 PARKVIEW	PLYMOUTH, MI 48170	25	
R-78-063-02-0032-000	11460 PARKVIEW	GARY A VAUGHN	11460 PARKVIEW	PLYMOUTH, MI 48170		50
R-78-063-02-0034-000	11500 PARKVIEW	RICHARD ROBINSON	11500 PARKVIEW	PLYMOUTH, MI 48170	25	
R-78-063-02-0042-000	11628 PARKVIEW	MICHAEL LAPOINTE & MOLLY MCINTYRE	11628 PARKVIEW	PLYMOUTH, MI 48170	25	
R-78-063-02-0092-000	11310 ASPEN	TYLER & MONICA KELLY	11310 ASPEN	PLYMOUTH, MI 48170	50	
R-78-063-02-0103-000	11438 ASPEN	GEORGE & STACEY KOZORA	11438 ASPEN	PLYMOUTH, MI 48170	100	
R-78-063-02-0125-000	11417 CEDAR LN	LINDSEY WEAVER	11417 CEDAR LN	PLYMOUTH, MI 48170	25	
R-78-063-02-0130-000	11349 CEDAR LN	HENRY & ARLENE GUEVARA	11349 CEDAR LN	PLYMOUTH, MI 48170	75	
R-78-063-02-0137-000	11388 CEDAR LN	JAMES HOVEY	11388 CEDAR LN	PLYMOUTH, MI 48170	25	
R-78-063-02-0141-000	11466 CEDAR LN	MICHAEL & JULIE BELL	11466 CEDAR LN	PLYMOUTH, MI 48170	25	
R-78-063-02-0146-000	39627 BIRCHWOOD DR	STEVEN & DIANE PAYNE	39627 BIRCHWOOD DR	PLYMOUTH, MI 48170		25
R-78-063-02-0148-000	39591 BIRCHWOOD DR	MICHAEL STEELE	39591 BIRCHWOOD DR	PLYMOUTH, MI 48170	25	
R-78-063-02-0150-000	39555 BIRCHWOOD DR	GARRY & LYNN BALL	39555 BIRCHWOOD DR	PLYMOUTH, MI 48170	25	
R-78-063-02-0176-000	11799 PARKVIEW	DAVID SUDEKUM	11799 PARKVIEW	PLYMOUTH, MI 48170	50	
R-78-063-02-0181-000	11699 PARKVIEW	CRISTINA FREUDO	11699 PARKVIEW	PLYMOUTH, MI 48170	50	
R-78-063-02-0187-000	11601 PARKVIEW	SUSANNE GRAZAL	11601 PARKVIEW	PLYMOUTH, MI 48170	25	



2016 SIDEWALK PROGRAM

Tax ID	Property Address	Property Owner	Owner Address	City, state zip code	4" SIDEWALK	6" SIDEWALK
R-78-063-99-0004-000	39670 GREENVIEW	TWIN ARBOR ASSOCIATES	260 E BROWN ST, STE 200	BIRMINGHAM, MI 48009		25
R-78-060-03-0004-000	11503 WAVERLY	PAUL & SALLY ANINOS	11503 WAVERLY	PLYMOUTH, MI 48170		25
R-78-060-03-0011-000	11383 WAVERLY	MOIRA HAAS	11383 WAVERLY	PLYMOUTH, MI 48170		25
R-78-060-03-0031-000	11540 SPICER	MICHAEL & JULIE MANN	11540 SPICER	PLYMOUTH, MI 48170		25
R-78-060-03-0045-000	11402 WAVERLY	HOMEOWNER	11402 WAVERLY	PLYMOUTH, MI 48170		25
R-78-055-02-0012-000	8949 WOODBERRY	JEFFREY & ALEXA KEPLER	8949 WOODBERRY RD	PLYMOUTH, MI 48170		25
R-78-055-02-0036-000	9054 MUIRLAND	KURT & CATHERINE HEISE	9054 MUIRLAND	PLYMOUTH, MI 48170		50
R-78-055-02-0052-000	46701 BARRINGTON CT	CHRISTOPHER & BRENNHA HARDEN	46701 BARRINGTON CT	PLYMOUTH, MI 48170		25
R-78-055-02-0053-000	46731 BARRINGTON CT	WILLIAM J VIDA	46731 BARRINGTON CT	PLYMOUTH, MI 48170		25
R-78-055-02-0093-000	46430 STRATHMORE CT	JEANNE GONYER	46430 STRATHMORE CT	PLYMOUTH, MI 48170		25
R-78-055-02-0094-000	46431 STRATHMORE CT	MARK & LOLA ISIMINGER	46431 STRATHMORE CT	PLYMOUTH, MI 48170		25
R-78-056-01-0107-000	46376 WESTBRIAR CT	ERIC & CHRISTINE HAUSER	46376 WESTBRIAR CT	PLYMOUTH, MI 48170		25
R-78-056-01-0126-000	46212 BARRINGTON	STEVEN & ANITA LEWALLEN	46212 BARRINGTON	PLYMOUTH, MI 48170		25
R-78-056-01-0133-000	46380 BARRINGTON	MICHAEL & MARY CLEMENTE	46380 BARRINGTON	PLYMOUTH, MI 48170		25
R-78-056-01-0184-000	46054 ROCKLEDGE DR	WILLIAM & NATALIE MCLAUGHLIN	46054 ROCKLEDGE DR	PLYMOUTH, MI 48170		25
R-78-057-02-0014-000	44758 CHARNWOOD DR	DAVID SUTHERLAND	44758 CHARNWOOD DR	PLYMOUTH, MI 48170		25
R-78-057-02-0026-000	44629 CHARNWOOD DR	DEBORAH & RAYMOND MALONI	44629 CHARNWOOD DR	PLYMOUTH, MI 48170		50
R-78-057-03-0050-000	10538 JO ANN LN	COSME DELAPAZ	10538 JO ANN LN	PLYMOUTH, MI 48170		25
R-78-057-03-0057-000	10650 JO ANN LN	RICHARD & BARBARA BRAY	10650 JO ANN LN	PLYMOUTH, MI 48170		25
R-78-057-03-0061-000	10541 JO ANN LN	RODNEY & SUSAN KROPP	10541 JO ANN LN	PLYMOUTH, MI 48170		50
R-78-057-03-0062-000	10525 JO ANN LN	RALPH & BETTY HARTSOE	10525 JO ANN LN	PLYMOUTH, MI 48170		25
R-78-057-03-0066-000	10544 BROOKWOOD DR	JOHN DEBIEN	10544 BROOKWOOD DR	PLYMOUTH, MI 48170		25
R-78-057-03-0078-000	44759 BROOKSIDE	RONALD & PATRICIA HOLLAND	44759 BROOKSIDE	PLYMOUTH, MI 48170		25
R-78-055-05-0004-000	47181 TIMBERWOOD DR	ALEXANDER & VITA LYZOHUB	47181 TIMBERWOOD DR	PLYMOUTH, MI 48170		50
R-78-055-05-0009-000	9050 COREY CT	JITESH & PREETI AGRAWAL	9050 COREY CT	PLYMOUTH, MI 48170		25
R-78-055-05-0022-000	8867 WOODLORE SOUTH DR	JEFFREY & MAUREEN CAMPBELL	8867 WOODLORE SOUTH DR	PLYMOUTH, MI 48170		75
R-78-055-05-0041-000	9034 WOODLORE SOUTH DR	CHRISTOPHER & PAM MCCOY	9034 WOODLORE SOUTH DR	PLYMOUTH, MI 48170		25
R-78-055-05-0042-000	9062 WOODLORE SOUTH DR	STEVEN & PAULA NANTAU	9062 WOODLORE SOUTH DR	PLYMOUTH, MI 48170		125
R-78-055-05-0046-000	47116 MARISA CT	SUKHBIR BRAR	47116 MARISA CT	PLYMOUTH, MI 48170		25



## CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

**MEETING DATE:** June 14, 2016

**ITEM:** Adoption of Plymouth Commons Subdivision Road Rehabilitation Special Assessment District and Assessment Roll

**PRESENTER:** Patrick J. Fellrath, P.E., Director of Public Services  
Rhett Gronevelt, P.E., OHM Advisors

**OTHER INDIVIDUALS IN ATTENDANCE:** None anticipated.

**BACKGROUND:**

The submission is consistent with policy established by the Board regarding these matters. Bids were received for the Plymouth Commons Subdivision SAD Project on May 26, 2016. OHM then reviewed and tabulated the bids and made a recommendation for award to one of the two low bidders. The evaluation was based upon the bid amount and the qualifications of the two low bidders. A determination was made that the benefit of each parcel shall be on a per unit basis and therefore the potential assessment for both options has been spread equally among the one hundred and thirty (130) lots in the district.

**ACTION REQUESTED:**

The Board is being asked to hold the Public Hearing of Assessment, and approve a resolution establishing the Plymouth Commons Subdivision Road Rehabilitation Special Assessment District and confirm the Assessment Roll for said Special Assessment District.

**BUDGET/ACCOUNT NUMBER:**

Upon approval by the Board, a thirty (30) day period shall be provided to permit any person having an interest in the real property to file a written appeal of the Special Assessment with the Michigan Tax Tribunal. The project would commence following the 30 day holding period.

**RECOMMENDATION:**

**MODEL RESOLUTION:**

**I move to approve Resolution 2016-06-14-14 establishing the Plymouth Commons Subdivision Road Rehabilitation SAD district No. 179 and confirming the Assessment Roll as presented subject to providing a thirty (30) day period to permit any person having interest in the real property to file a written appeal of the Special Assessment with the Michigan Tax Tribunal.**

**ATTACHMENTS:** Resolution, District Map, Roll, Project Cost Summary, Certification.

**STATE OF MICHIGAN  
COUNTY OF WAYNE  
CHARTER TOWNSHIP OF PLYMOUTH**

**SPECIAL ASSESSMENT ROLL FOR  
PLYMOUTH COMMONS ROAD REHABILITATION  
SPECIAL ASSESSMENT DISTRICT**

At a Regular Meeting of the Charter Township of Plymouth Board of Trustees, Wayne County, Michigan, held at the Township Hall located at 9955 Haggerty Road N., Plymouth, Michigan on June 14, 2016, the following resolution was offered:

WHEREAS, the Township Board of the Charter Township of Plymouth, Wayne County, Michigan, after due and legal notice, has conducted a public hearing upon a proposed assessment roll prepared by the Supervisor and Assessing Officer of the Township for the purpose of defraying a portion of the costs of the Road Rehabilitation Project proposed to be installed within the Plymouth Commons Subdivision Special Assessment District as shown on the plans and specifications for such project; and

WHEREAS, such public hearing was preceded by proper notice in a newspaper of general circulation in the Township, and by First Class Mail notice to each property owner of record within said district and upon said assessment roll;

WHEREAS, comments were received from those present at such public hearing concerning said assessment roll and opportunity to all present to be heard in the matter;

WHEREAS, the oral comments received indicated the reasonableness of the following amendments to said assessment roll if any;

WHEREAS, a record of those present to protest, and of written protests submitted at or before the public hearing was made a part of the minutes of the hearing.

WHEREAS, it is the opinion of the Township Board that no further time should be granted for the consideration of the matter because of the time constraints in initiating this project;

WHEREAS, the Township Board has duly, inspected the proposed assessment roll and considered all comment and proposed amendments thereto and has found the proposed assessment roll, as amended, to be correct, just, and reasonable.

NOW, THEREFORE, BE IT RESOLVED AS FOLLOWS:

1. The assessment roll submitted by the Supervisor of the Township shall hereafter be designated as Plymouth Commons Subdivision SAD District No. 179 and shall hereby be confirmed as the assessment roll for Special Assessment District No. 179.
2. The assessments made in said Plymouth Commons Subdivision Assessment Roll No. 179 shall be divided into ten (10) equal annual installments of principal with the first installment to be due on or before December 1, 2016, and the following installments to be due on or before the 1st day of the same month for each and every year thereafter. All unpaid installments prior to their transfer to the tax roll as provided by the Michigan Public Act 188 of 1954, as amended, shall bear interest payable annually on each installment due date at the rate of four percent (4%)

per annum commencing on the first installment due date hereinafter set forth. Any payments made before such first installment due date shall not bear any such interest.

3. Future due installments of an assessment against any parcel of land may be paid to the Township Treasurer at any time in full with interest accrued through the month in which the final installment is paid in accordance with the Michigan Public Act 188 of 1954, as amended. If any installment of a special assessment is not paid when due, then the installment shall be considered to be delinquent and there shall be collected, in addition to interest as provided by this section, a penalty at the rate of one percent (1%) for each month, or fraction of a month, that the installment remains unpaid before being reported to the Township Board for assessment upon the Township tax roll, also in accordance with said Act 188.
4. The assessments made in said special assessment roll are hereby ordered and directed to be collected by the Township Treasurer, and said Treasurer with his/her warrant attached, commanding the Treasurer to collect such assessments in accordance with the direction of the Township Board and said Public Act 188.
5. All resolutions and parts of resolutions insofar as they conflict with the provisions of this resolution be and the same are hereby rescinded.

**Present:** [Conzelman, Curmi, Doroshewitz, Edwards, Kelly, Mann, Price]  
**Absent:** [None]  
**Moved by:** [Conzelman]  
**Supported by:** [Curmi]

**Roll Call Vote**

**Ayes:** [Conzelman, Curmi, Doroshewitz, Edwards, Kelly, Mann, Price]  
**Nays:** [None]  
**Absent:** [None]

**Adopted:** Regular Meeting of the Board of Trustees on June 6, 2016

\_\_\_\_\_  
Nancy Conzelman, Township Clerk

**Certification of Copy**

STATE OF MICHIGAN )  
COUNTY OF WAYNE )

I, Nancy C. Conzelman, Clerk of the Charter Township of Plymouth, Wayne County, State of Michigan, do hereby certify that the foregoing is a true copy of a Resolution adopted by the Charter Township of Plymouth Board of Trustees at their meeting held on the Adopted Date, the original of which is on file in my office.

\_\_\_\_\_  
Plymouth Township Clerk

\_\_\_\_\_  
Date

**Resolution: 2016-06-14-14**



## CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

MEETING DATE: June 14, 2016

**ITEM:**

**Amendment to the Parks and Playground Areas Ordinance – 2<sup>nd</sup> Reading**

**PRESENTER:** Mike Mitchell, Director Parks and Grants

**OTHER INDIVIDUALS IN ATTENDANCE:** Kevin Bennett

**EXECUTIVE SUMMARY:**

The proposed changes to the ordinance are to correspond with the proposed changes in the Park Rules and Regulations and make the two items consistent. The intent of the changes is to clarify current policies and procedures for park patrons and the seasonal park staff.

**BACKGROUND:**

**ACTION REQUESTED:** Approve second reading of the amendment to the Parks and Playground Areas Ordinance.

**BUDGET/TIME-LINE:**

**IMPLEMENTATION PLAN:**

**RECOMMENDATION:**

**MODEL RESOLUTION:** I move to approve the second reading of Ordinance No. 1016, Amendment 5, Amending the Parks and Playground Areas Ordinance, Chapter VII, Article 7, Ordinance No. 1016.

**ATTACHMENTS:**



**STATE OF MICHIGAN  
COUNTY OF WAYNE  
CHARTER TOWNSHIP OF PLYMOUTH**

**PARKS AND PLAYGROUNDS AREA ORDINANCE**

**ORDINANCE NO. \_\_\_\_\_**

**AN ORDINANCE OF THE CODE OF ORDINANCES OF THE CHARTER TOWNSHIP OF PLYMOUTH TO PROVIDE FOR TITLE; TO PROVIDE FOR UNLAWFUL DESTRUCTION OF PROPERTY; TO PROVIDE FOR PROHIBITED USE OF PARKS AND PLAYGROUNDS; TO PROVIDE FOR ANIMAL AND MOTOR VEHICLE RESTRICTIONS; TO PROVIDE FOR PARK RULES; TO PROVIDE FOR PENALTY; TO PROVIDE FOR REPEAL; TO PROVIDE FOR SEVERABILITY; AND TO PROVIDE FOR PUBLICATION AND EFFECTIVE DATE.**

**THE CHARTER TOWNSHIP OF PLYMOUTH ORDAINS:**

Ordinance No. \_\_\_\_\_, the Parks and Playgrounds Area Ordinance, is hereby adopted to read as follows:

**SECTION I. TITLE.**

This Ordinance shall be known and may be cited as the "Parks and Playgrounds Area Ordinance."

**SECTION II. ORDINANCE**

**A. Destruction of property.**

It is hereby unlawful to destroy, damage or remove any tree, shrub, wildflower or other vegetation or to destroy, damage, deface or remove any publicly owned property in any public park or recreation area.

**B. Prohibited use of parks, playgrounds.**

It shall be unlawful for any person to use, occupy, frequent, loiter or be in any public park in the township between dusk and dawn (as defined by the National Oceanic and Atmospheric Administration of the United States Department of Commerce for Detroit, Michigan) unless posted otherwise on the Township web site, unless otherwise provided by order of the Supervisor, or unless a special permit for the use or occupancy has been previously given by the Supervisor or unless the person is employed by the township. The application for the special permit shall be made in writing by any resident of the township, stating his or her name and address and the group of persons he or she

represents who will use the special permit and the proposed hours of the use. The approval for the issuance of the special permit rests in the sound discretion of the Supervisor. In any event, the Supervisor may order any public park closed at any time whatsoever whenever he or she deems the action is necessary to conserve the peace, suppress disorder, preserve property or protect the public safety and welfare.

C. Animals and Motor Vehicles.

It shall also be unlawful for persons to have dogs, cats, horses or mini bikes in any public park in the township. Licensed motorcycles and other licensed motor driven vehicles are prohibited upon or across the land used for other recreational use and are only allowed upon the roadway to get to a given location or an intended recreation use within the public parks. Posted speed limits within the public parks must be adhered to or violations will be imposed.

D. Park Rules

The Township Board may adopt Park Rules, which shall be published on the Township web page at [www.plymouthtwp.org](http://www.plymouthtwp.org).

**SECTION III. PENALTY.**

Any person, corporation, partnership or other legal entity who shall violate or fail to comply with any provision of Section II A, II B, or II C this Ordinance shall be guilty of a misdemeanor and upon conviction thereof may be fined not more than Five Hundred (\$500.00) Dollars or imprisoned not more than Ninety (90) days, or both, in the discretion of the court. Any person, corporation, partnership or other legal entity who shall violate or fail to comply with any Park Rule (not otherwise punishable hereunder as a misdemeanor) adopted by the Township Board shall be responsible for a municipal civil infraction punishable by payment of a fine not to exceed Five Hundred (\$500.00) Dollars in the discretion of the court.

**SECTION IV. REPEAL.**

All Ordinances or parts of Ordinances in conflict with the provisions of this Ordinance, except as herein provided, are hereby repealed only to the extent necessary to give this Ordinance full force and effect.

**SECTION V. SEVERABILITY.**

If any section, subsection, clause, phrase or portion of this Ordinance is for any reason held invalid or unconstitutional by any court of competent jurisdiction, such portion shall be deemed a separate, distinct and independent provision, and such holding shall not affect the validity of the remaining portion thereof.



**SECTION VI. SAVINGS CLAUSE.**

The repeal or amendment herein shall not abrogate or affect any offense or act committed or done, or any penalty or forfeiture incurred, or any pending litigation or prosecution of any right established or occurring prior to the effective date of this Ordinance.

**SECTION VII. PUBLICATION.**

The Clerk for the Charter Township of Plymouth shall cause this Ordinance to be published in the manner required by law.

**SECTION VIII. EFFECTIVE DATE.**

This Ordinance shall take full force and effect upon publication.

**CERTIFICATION**

The foregoing Ordinance was duly adopted by the Township Board Trustees of the Charter Township of Plymouth at its regular meeting called and held on the \_\_\_\_\_ day of \_\_\_\_\_, 2016, and was ordered to be given publication in the manner required by law.

\_\_\_\_\_  
Nancy Conzelman, Clerk

Introduced: \_\_\_\_\_  
Published: \_\_\_\_\_  
Adopted: \_\_\_\_\_  
Effective upon Publication: \_\_\_\_\_



## CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

**MEETING DATE:** June 14, 2016

**ITEM:** 2016 Sidewalk Repair Program

**PRESENTER:** Patrick J. Fellrath, P.E., Director of Public Services  
Daniel R. Brooks, P.E. Wade Trim Associates, Inc.

**OTHER INDIVIDUALS IN ATTENDANCE:** None anticipated.

**BACKGROUND:** Bids were taken for the 2016 Sidewalk Repair Program; see attached letter dated May 27, 2016 with the results and recommendation.

**ACTION REQUESTED:** Award Contract.

**BUDGET/ACCOUNT NUMBER:** Repair costs are to be distributed per the Sidewalk Ordinance.

**RECOMMENDATION:** Award Contract.

**MODEL RESOLUTION:**

**I move to award the 2016 Sidewalk Repair Contract to Luigi Ferdinandi & Sons in the amount of \$167,500.00 and authorize the execution of the Contract Documents by the Supervisor and Clerk.**

**ATTACHMENTS:** Letter dated May 27, 2016.



# WADE TRIM

May 27, 2016

Charter Township of Plymouth  
9955 N. Haggerty Road  
Plymouth, MI 48170

Attention: Mr. Patrick Fellrath, Director of Public Utilities

Re: Recommendation of Award for the 2016 Sidewalk Repair Program

Dear Mr. Fellrath:

On Thursday, April 7, 2016, bids for the above-referenced Project were received and opened at the Plymouth Township Hall. A total of five bids were received and the low bidder was Luigi Ferdinandi & Sons with a total Project bid of \$167,500.00. A copy of the bid tab is enclosed for your reference.

Based on our review, Luigi Ferdinandi & Sons from Roseville has submitted the lowest responsible bid for this Project. The unit price of \$6.50 a square foot for 4-inch sidewalk repair, and \$7.00 a square foot for 6-inch sidewalk repair is typical pricing we are seeing in today's bidding climate. Our office has no work experience with Luigi Ferdinandi & Sons. Our office requested and received references from the City of Birmingham, Shelby Township and Macomb Township where the Contractor has completed similar sidewalk repair programs. In Macomb and Shelby Townships their contracts were extended for a second year of work. Comments received include the Contractor has sufficient equipment and manpower to perform the work and their quality of work is satisfactory. Based on this information, the Contractor has an overall satisfactory performance record and they have adequate resources and equipment to complete this Project.

We hereby recommend that this Project be awarded to Luigi Ferdinandi & Sons in the amount of \$167,500.00. If you have any questions regarding the above information or any other aspects of the Project, please contact our office.

Very truly yours,

Wade Trim Associates, Inc.

Daniel R. Brooks, PE

DRB:ka  
PLT 2004-01T  
SIDEWALK RECOMMENDATION OF AWARD LTR.DOC  
Enclosure

Wade Trim Associates, Inc.  
25251 Northline Road  
P.O. Box 10  
Taylor, MI 48180

734.947.9700  
800.482.2864  
734.947.9726 fax  
www.wadetrim.com



**WADE TRIM  
 BID TABULATION**

**SUBJECT** 2016 Sidewalk Repair Program  
**JOB NO.** PLT 2004-011  
**CLIENT:** Plymouth Charter Township  
**DATE:** April 11, 2016  
**Bid Date:** April 8, 2016

PAY ITEM NUMBER	DESCRIPTION	QUANTITY	UNIT	Lulgi Ferdinandl	Merlo Const	Century Cement	Lacarla Concrete	Rotondo
				& Sons	Co.	Co. Inc.	Const.	Const Inc.
1	4" Concrete Sidewalk, Remove and Replace	23,000	Sft	\$6.50	\$6.75	\$7.50	\$8.75	\$10.50
				\$149,500.00	\$155,250.00	\$172,500.00	\$201,250.00	\$241,500.00
				<i>\$149,500.00</i>	<i>\$155,250.00</i>	<i>\$172,500.00</i>	<i>\$201,250.00</i>	<i>\$241,500.00</i>
2	4" Concrete Sidewalk Ramp, ADA, Remove and Replace	200	Sft	\$10.00	\$25.00	\$13.50	\$26.00	\$13.00
				\$2,000.00	\$5,000.00	\$2,700.00	\$5,200.00	\$2,600.00
				<i>\$2,000.00</i>	<i>\$5,000.00</i>	<i>\$2,700.00</i>	<i>\$5,200.00</i>	<i>\$2,600.00</i>
3	6" Concrete Sidewalk or Drive Approach, Remove and Replace	2,000	Sft	\$7.00	\$8.50	\$8.50	\$9.00	\$11.50
				\$14,000.00	\$17,000.00	\$17,000.00	\$18,000.00	\$23,000.00
				<i>\$14,000.00</i>	<i>\$17,000.00</i>	<i>\$17,000.00</i>	<i>\$18,000.00</i>	<i>\$23,000.00</i>
4	Allowance for Testing of Concrete	1	LS	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00
				\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00
				<i>\$2,000.00</i>	<i>\$2,000.00</i>	<i>\$2,000.00</i>	<i>\$2,000.00</i>	<i>\$2,000.00</i>
<b>TOTAL CONTRACT PRICE</b>				<b>\$167,500.00</b>	<b>\$179,250.00</b>	<b>\$194,200.00</b>	<b>\$226,450.00</b>	<b>\$269,100.00</b>
(Items 1 thru )				<i>\$167,500.00</i>	<i>\$179,250.00</i>	<i>\$194,200.00</i>	<i>\$226,450.00</i>	<i>\$269,100.00</i>



## CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

**MEETING DATE:** June 14, 2016

**ITEM:** Plymouth Commons Subdivision Road Rehabilitation Special Assessment District –  
Contract Award

**PRESENTER:** Patrick J. Fellrath, P.E., Director of Public Services  
Rhett Gronevelt, P.E., OHM Advisors

**OTHER INDIVIDUALS IN ATTENDANCE:** None anticipated.

**BACKGROUND:**

The submission is consistent with policy established by the Board regarding these matters. Bids were received for the Plymouth Commons Subdivision SAD Project on May 26, 2016. OHM then reviewed and tabulated the bids and made a recommendation for award to one of the two low bidders. The evaluation was based upon the bid amount and the qualifications of the two low bidders.

**ACTION REQUESTED:**

The Board is being asked to conditionally approve the recommendation for award to one of the two low bidders.

**BUDGET/ACCOUNT NUMBER:** N/A

**RECOMMENDATION:**

**MODEL RESOLUTION:**

**I move that the contract for the Plymouth Commons Subdivision SAD Project be conditionally awarded to \_\_\_\_\_ in the amount of \$ \_\_\_\_\_, contingent upon the passage of the Hearing of Assessment, subject to the thirty (30) day appeal process.**

**ATTACHMENTS:** Project Description, Map, Recommendation Letter, Planning Cost, Roll.

PROJECT DESCRIPTION  
FOR  
PLYMOUTH COMMONS SUBDIVISION  
SPECIAL ASSESSMENT DISTRICT (SAD) ROAD PROGRAM

The proposed improvements to the existing two-lane concrete roadway with integral curb and gutter shall consist of complete and/or partial pavement and curb replacement, sub-base and subgrade preparation, and miscellaneous driveway work, sidewalk ramp, drainage structure modification or subgrade underdrain installation, which may be needed to facilitate the replacement of concrete road pavement only, or as required by County of Wayne. The project commences at the west right-of-way line of Ridge Road, and proceeds westerly on Commons Boulevard approximately 390 feet to the intersection at Howland Park Drive, then proceeds along Howland Park Drive approximately 4,575 feet from the intersection at Commons Boulevard to the intersection at Hopkins Drive, then proceeds easterly along Cooke Avenue approximately 3,020 feet from the intersection at Hopkins Drive to the intersection at Commons Boulevard. The project also includes Hopkins Drive commencing at the intersection of Cooke Avenue and proceeding southerly approximately 420 feet to the north right-of-way line of Powell Road, and Winslow Court commencing at the intersection with Cooke Avenue and proceeding southeasterly approximately 195 feet to its point of termination, and Fuller Court commencing at the intersection with Howland Park Drive and proceeding westerly approximately 435 feet to its point of termination, and Belton Court commencing at the intersection of Howland Park Drive and proceeding northeasterly approximately 240 feet to its point of termination, and Standish Court commencing at the intersection of Howland Park Drive and proceeding easterly approximately 495 feet to its point of termination.

The district limit for frontage along Commons Boulevard, Howland Park Drive, Cooke Avenue, Hopkins Drive, Winslow Court, Fuller Court, Belton Court, and Standish Court consists of Lots 1 through 130 (excluding Lot 122 which is now combined with Lot 121) of Plymouth Commons Subdivision, located in the Southeast  $\frac{1}{4}$  of Section 30, T.1S, R.8E, of Plymouth Township, Wayne County, Michigan.





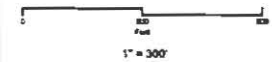
**Plymouth Commons**  
S.A.D Limits & Support  
Plymouth Township

- Plymouth Commons SAD (Potential Limits)
- Support
- No Support

Key  
Street Number: 49411  
Lot Number: 1

Total Number of Lots 130

Total Number of Lots in Support 79



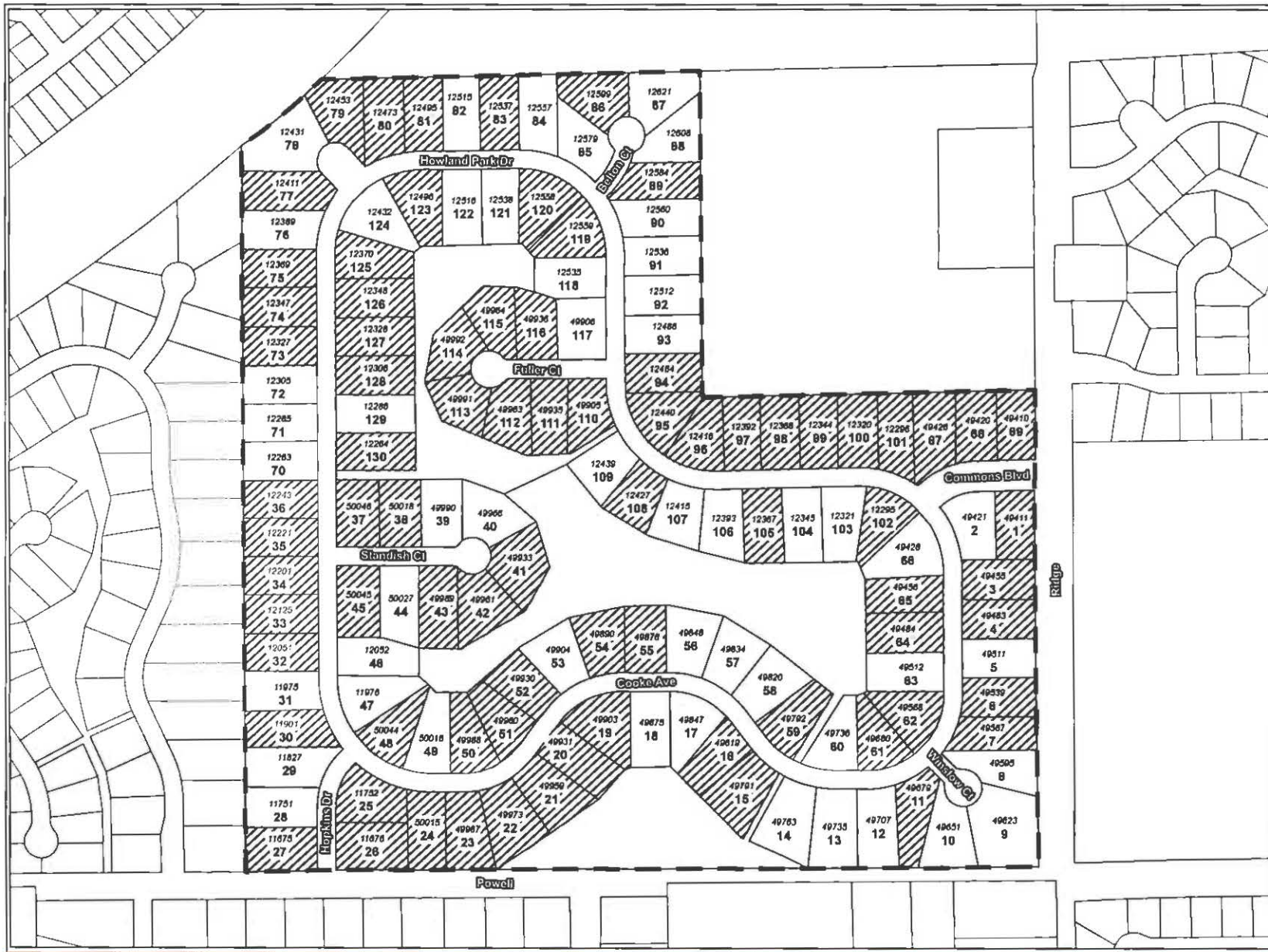
Source: Data provided by Wayne County and Plymouth Township. OHM Advisors does not warrant the accuracy of the data on the map. This document is intended to depict the approximate spatial location of the mapped features within the Community and all use is strictly at the user's own risk.

Coordinate System: NAD 1983 StatePlane Michigan South FIPS 2113  
in Feet

Map Published: January 27, 2018



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ARCHITECTS. ENGINEERS. PLANNERS.



June 7, 2016

Mr. Patrick Fellrath, PE  
Director of Public Utilities  
Charter Township of Plymouth  
9955 N. Haggerty Road  
Plymouth, MI 48170

RE: Plymouth Commons Subdivision Road Rehabilitation SAD  
Bid Summary

Dear Mr. Fellrath:

Bids were received for the above referenced project on Thursday, May 26, 2016 and read aloud at the Township Board Chambers at 2:00 pm local time. A total of six (6) bids were received for the project as follows:

CONTRACTOR NAME	LOCATION	BID AMOUNT
Goretski Construction Company	Milford, MI	\$494,998.00
Fiore Enterprises	Detroit, MI	\$728,394.25
Major Cement Company	Detroit, MI	\$812,482.50
Merlo Construction Company	Milford, MI	\$818,236.50
Century Cement Company	Riverview, MI	\$827,364.50
GM & Sons	Whitmore Lake, MI	\$884,637.00

A bid tab summary for the Contractors listed in the above table, along with the estimated unit prices from our Engineer's Estimate is also attached to this letter for your reference. The Engineer's Opinion of Construction Cost established for this project (including the cost for anticipated inspection crew days) was \$745,550.

The low bidder on this project, Goretski Construction Company, has been in the concrete business for 30 years within the State of Michigan. OHM Advisors past experience with this contractor has generally been as a subcontractor to larger general or prime paving contractors, performing concrete curb and gutter installation and other miscellaneous concrete flat work. OHM Advisors spoke to the low bidder in reference to their unit pricing for this project, which was significantly below our engineer's estimate, and the other bidder prices outlined above. The low bid Contractor indicated that they were comfortable and ready to proceed at the bid prices submitted, and did not indicate to OHM Advisors any specific concern over the contract documents. Although based on the variation of the Contractor submitted unit pricing when compared to current market trends, there is a concern that the pricing submitted by the Contractor could potentially affect overall performance on this project as it relates to responsiveness, logistics, traffic control, schedule, and as a result possibly overall quality.

Many of the reference projects submitted with Goretski's bid were for projects that were not similar in size and scope to this project. We were able to speak with a local municipal reference for a recent project that had similarities in scope to this project, but was smaller in the overall aspect of improvements. General feedback from the reference was mixed in the aspect of administrative follow-up, project management and execution in regard to a larger scope paving project as a prime paving Contractor. Although OHM Advisors is of the opinion that this Contractor could successfully perform the work outlined in the contract and has the experience to perform this work, we also have concerns that the

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LIVONIA, MICHIGAN 48150

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contractor may not give the project the appropriate attention. Also, in our opinion this Contractor underestimated the amount of inspection days necessary for the project (their bid contains 25 crew days compared to the engineer's estimate of approximately 40 days of necessary inspection time). Although there is no direct liability to the Township for a Contractor underestimating inspection crew days, this would result in additional penalties to the Contractor as they exceed 25 calendar days of inspection time by OHM Advisors. It is then possible that this could affect other aspects of the Contractor's performance related to quality and schedule. If the Township proceeds with awarding the contract to Goretzki, we would recommend maintaining the project contingency at 10% to accommodate potential additional costs that may become necessary to enforce the contract.

The second low bidder, Fiore Enterprises, LLC, is a Contractor that OHM Advisors is familiar with on recent similar projects. This includes the City of Novi 2015 Neighborhood Roads Concrete Program with an estimated contract value of \$1,500,000, and the City of Westland Central City Parkway Project with an estimated contract value of \$1,500,000. Both OHM Advisors and the Owners of those respective projects have had generally positive experiences with this Contractor, and can confirm their ability to perform similar work to the scope of this project in Plymouth Township. This Contractor has also exhibited the ability to maintain schedule, along with overall good workmanship. Please note that the Fiore Enterprises bid price is also within our Engineer's Opinion of Construction Cost on this project, and would provide for an anticipated total SAD project cost that would be within the previous preliminary total SAD project cost.

OHM Advisors did not perform further evaluation past the two low bidders on this project. Based on the above evaluation of the submitted bids, we recommend that Plymouth Township award the contract to one of the two low bidders, while taking into account the items noted above in our evaluation. We then subsequently recommend approval of an updated SAD Project Assessment Amount at the Public Hearing of Assessment. We have included two versions of the updated Project Cost Summary Sheet for this project in the bid packet prepared by the Department of Public Services.

We thank you for this opportunity to provide professional services to Plymouth Township on this project. Please do not hesitate to contact us with any questions.

Sincerely,  
OHM Advisors

---

George A. Tsakoff, PE

Encl: Bid Tabulation Summary

cc: Rhett Gronevelt, PE, OHM Advisors

Tabulation for Bids Received on May 26, 2018  
 Plymouth Commemorative Road Rehabilitation R.A.D.  
 Charter Township of Plymouth, Wayne County, State of Michigan  
 OHM Job No. 0132-15-0030

**Engineers Estimate**

Greenfield Construction Co.  
 4460 Southfield Rd.  
 Milford, MI 48361

Fors Enterprises, LLC  
 3411 W. Fort St  
 Detroit, MI 48218

Major Cement Company  
 15347 Dale  
 Detroit, MI 48223

Merlo Construction Co. Inc.  
 4964 Technical Dr  
 Milford, MI 48361

Century Cement Co. Inc.  
 12000 Sibley Rd  
 Riverview, MI 48193

QM & Sons, Inc.  
 6784 Whitmore Lake Rd.  
 Whitmore Lake, MI 48189

Phone 248-885-1404

Phone 313-962-0400

Phone 313-220-8990

Phone 248-840-2147

Phone 734-264-8770

Phone 734-629-1298

Item No.	Description	Estimated Quantity	Unit Price		Amount		Unit Price		Amount		Unit Price		Amount		Unit Price		Amount	
			Price	Amount	Price	Amount	Price	Amount	Price	Amount	Price	Amount	Price	Amount	Price	Amount		
1)	Mobilization, Max 5%	1 LB	\$28,000.00	\$28,000.00	\$20,000.00	\$20,000.00	\$35,000.00	\$35,000.00	\$35,000.00	\$35,000.00	\$25,000.00	\$25,000.00	\$39,000.00	\$39,000.00	\$38,500.00	\$38,500.00	\$38,500.00	\$38,500.00
2)	Audio Video Route Survey	1 LB	\$2,500.00	\$2,500.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00
3)	Traffic Maintenance and Control	1 LB	\$12,000.00	\$12,000.00	\$5,000.00	\$5,000.00	\$10,000.00	\$10,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$40,000.00	\$40,000.00	\$35,500.00	\$35,500.00	\$35,500.00	\$35,500.00
4)	Stencils Rem	83 Sfd	\$12.00	\$996.00	\$14.00	\$1,162.00	\$12.50	\$1,037.50	\$12.00	\$996.00	\$10.00	\$830.00	\$8.00	\$664.00	\$9.00	\$747.00	\$11.00	\$913.00
5)	Mac Pavt. Rem. Patching	3855 Sfd	\$14.00	\$53,970.00	\$6.00	\$23,130.00	\$18.85	\$72,645.75	\$18.00	\$69,390.00	\$40.00	\$154,200.00	\$20.00	\$77,100.00	\$18.00	\$69,390.00	\$17.00	\$65,565.00
6)	Pavt. Rem. Driveway	100 Sfd	\$18.00	\$1,800.00	\$14.00	\$1,400.00	\$12.50	\$1,250.00	\$14.00	\$1,400.00	\$15.00	\$1,500.00	\$20.00	\$2,000.00	\$18.00	\$1,800.00	\$17.00	\$1,700.00
7)	Pavt. Rem. Roadway	3400 Sfd	\$12.50	\$42,500.00	\$8.00	\$27,200.00	\$8.95	\$30,430.00	\$17.00	\$57,800.00	\$22.00	\$74,800.00	\$20.00	\$68,000.00	\$19.00	\$64,600.00	\$18.50	\$62,700.00
8)	Subgrade Undercutting Type II Modified	175 Cyt	\$39.00	\$6,825.00	\$50.00	\$8,750.00	\$35.00	\$6,125.00	\$35.00	\$6,125.00	\$40.00	\$7,000.00	\$1.00	\$175.00	\$40.00	\$7,000.00	\$1.00	\$175.00
9)	Erosion Control, Inlet Protection Fabric Drop	60 Ea	\$290.00	\$17,400.00	\$100.00	\$6,000.00	\$100.00	\$6,000.00	\$129.00	\$7,740.00	\$125.00	\$7,500.00	\$100.00	\$6,000.00	\$1.00	\$60.00	\$1.00	\$60.00
10)	Erosion Control Silt Fence	350 Ft	\$3.33	\$1,166.50	\$2.00	\$700.00	\$2.00	\$700.00	\$1.25	\$437.50	\$1.25	\$437.50	\$0.01	\$3.50	\$3.50	\$1,225.00	\$3.50	\$1,225.00
11)	Aggregate Base 8 inch Modified	1582 Ton	\$25.00	\$39,550.00	\$18.00	\$28,476.00	\$28.75	\$45,367.50	\$27.00	\$42,846.00	\$28.00	\$44,160.00	\$10.00	\$15,820.00	\$62.00	\$98,360.00	\$62.00	\$98,360.00
12)	Dr Structure Top 8 inch	54 Ea	\$290.00	\$15,660.00	\$100.00	\$5,400.00	\$175.00	\$9,450.00	\$150.00	\$8,100.00	\$290.00	\$15,660.00	\$300.00	\$16,200.00	\$300.00	\$16,200.00	\$300.00	\$16,200.00
13)	Misc Structure Cover, Adj	36 Ea	\$230.00	\$8,280.00	\$150.00	\$5,400.00	\$495.00	\$17,722.50	\$500.00	\$18,000.00	\$400.00	\$14,400.00	\$500.00	\$18,000.00	\$550.00	\$19,800.00	\$550.00	\$19,800.00
14)	Misc Underdrain, Subgrade 8 inch	2925 Ft	\$1.15	\$3,363.75	\$1.00	\$2,925.00	\$1.45	\$4,230.75	\$1.50	\$4,387.50	\$1.40	\$4,095.00	\$1.00	\$2,925.00	\$1.00	\$2,925.00	\$1.00	\$2,925.00
15)	Clean and Seal Joint	11000 Ft	\$0.70	\$7,700.00	\$1.00	\$11,000.00	\$0.75	\$8,250.00	\$0.75	\$8,250.00	\$1.00	\$11,000.00	\$1.00	\$11,000.00	\$1.25	\$13,750.00	\$1.25	\$13,750.00
16)	Route and Seal Crack	3600 Ft	\$1.00	\$3,600.00	\$1.00	\$3,600.00	\$0.75	\$2,700.00	\$0.75	\$2,700.00	\$1.00	\$3,600.00	\$1.00	\$3,600.00	\$1.25	\$4,500.00	\$1.25	\$4,500.00
17)	Sew and Seal Joint	600 Ft	\$1.25	\$750.00	\$1.00	\$600.00	\$1.25	\$750.00	\$1.20	\$720.00	\$1.00	\$600.00	\$1.50	\$900.00	\$1.50	\$900.00	\$1.50	\$900.00
18)	Mac Conc Pavt Nonrem 7 inch	3400 Sfd	\$47.00	\$159,800.00	\$38.00	\$129,200.00	\$43.89	\$149,330.00	\$39.00	\$132,600.00	\$42.00	\$142,800.00	\$45.00	\$153,000.00	\$45.00	\$153,000.00	\$45.00	\$153,000.00
19)	Mac Pavt Repr Nonrem Conc. Patching Longt Joint	150 Sfd	\$66.00	\$9,900.00	\$70.00	\$10,500.00	\$60.80	\$9,120.00	\$67.00	\$10,050.00	\$75.00	\$11,250.00	\$90.00	\$13,500.00	\$100.00	\$15,000.00	\$100.00	\$15,000.00
20)	Mac Pavt Repr Nonrem Conc. Patching Slab	3300 Sfd	\$57.00	\$188,100.00	\$40.00	\$132,000.00	\$53.85	\$177,645.00	\$59.00	\$195,300.00	\$50.00	\$165,000.00	\$50.00	\$165,000.00	\$52.50	\$173,250.00	\$52.50	\$173,250.00
21)	Drive Approach Material Conc 8 inch	100 Sfd	\$80.00	\$8,000.00	\$45.00	\$4,500.00	\$42.85	\$4,285.00	\$47.00	\$4,700.00	\$40.00	\$4,000.00	\$37.00	\$3,700.00	\$30.00	\$3,000.00	\$30.00	\$3,000.00
22)	Sidewalk Ramp Conc 6 inch	280 Sfd	\$10.00	\$2,800.00	\$10.00	\$2,800.00	\$17.50	\$4,900.00	\$11.00	\$3,080.00	\$6.00	\$1,680.00	\$18.00	\$5,040.00	\$10.50	\$2,940.00	\$10.50	\$2,940.00
23)	Sidewalk Conc 4 inch	300 Sfd	\$7.00	\$2,100.00	\$5.00	\$1,500.00	\$4.75	\$1,425.00	\$5.00	\$1,500.00	\$5.00	\$1,500.00	\$5.00	\$1,500.00	\$5.00	\$1,500.00	\$5.00	\$1,500.00
24)	Pipe Inlet, Reroute and Reset	40 Ea	\$175.00	\$7,000.00	\$200.00	\$8,000.00	\$175.00	\$7,000.00	\$175.00	\$7,000.00	\$180.00	\$7,200.00	\$1.00	\$40.00	\$1.00	\$40.00	\$1.00	\$40.00
25)	Sign Reroute and Reset	10 Ea	\$100.00	\$1,000.00	\$80.00	\$800.00	\$175.00	\$1,750.00	\$100.00	\$1,000.00	\$180.00	\$1,800.00	\$1.00	\$10.00	\$1.00	\$10.00	\$1.00	\$10.00
26)	Turf Establishment	1500 Sfd	\$6.00	\$9,000.00	\$5.00	\$7,500.00	\$6.00	\$9,000.00	\$10.00	\$15,000.00	\$7.00	\$10,500.00	\$0.01	\$15.00	\$15.00	\$22,500.00	\$15.00	\$22,500.00
27)	Project Cleanup	1 LB	\$5,000.00	\$5,000.00	\$2,500.00	\$2,500.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$4,000.00	\$4,000.00	\$53,000.00	\$53,000.00	\$7,500.00	\$7,500.00	\$7,500.00	\$7,500.00
27)	Inspector Days	800 Satay	\$2.50	\$2,000.00	\$2.00	\$1,600.00	\$2.50	\$2,000.00	\$2.50	\$2,000.00	\$3.00	\$2,400.00	\$6.00	\$4,800.00	\$6.00	\$4,800.00	\$6.00	\$4,800.00
TOTAL BID AMOUNT				\$1,411,380.00		\$404,888.00		\$728,384.25		\$812,482.50		\$816,238.00		\$827,364.90		\$884,617.00		\$884,617.00

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**Planning Estimate Worksheet**  
For  
**Plymouth Commons Subdivision Road Rehabilitation SAD**  
**Plymouth Township, Wayne County, Michigan**  
**June 7, 2016**  
Based on Bid submitted by Goretzki Construction Company

**SCOPE OF WORK:**

Concrete Patching and Replacement  
Install aggregate base where applicable  
Install underdrain where applicable  
Pavement crack and joint sealing

Total Estimated Construction Cost Subtotal	\$ 474,998
Construction Contingency	\$ 50,000
Preliminary Engineering	\$ 7,000
Final Engineering	\$ 55,000
Inspection Crew Day Cost	\$ 20,000
Construction Engineering/Contract Administration	\$ 70,000

<b>Total Estimated Project Cost:</b>	<b>\$ 676,998</b>
<b>Estimated Wayne County Contribution Amount:</b>	<b>\$ 194,975</b>

Total Units: 130

Price Per Unit: \$ 3,710

**Cost/Owner:**

Lump Sum Payout:	\$ 3,710
Cost/Yr at 4% for 10 yrs:	\$ 457.41



**Planning Estimate Worksheet**  
**For**  
**Plymouth Commons Subdivision Road Rehabilitation SAD**  
**Plymouth Township, Wayne County, Michigan**  
**June 7, 2016**  
**Based on Bid submitted by Fiore Enterprises, LLC**

**SCOPE OF WORK:**

- Concrete Patching and Replacement
- Install aggregate base where applicable
- Install underdrain where applicable
- Pavement crack and joint sealing

Total Estimated Construction cost	\$ 688,394.25
Construction Contingency	\$ 7,805.75
Preliminary Engineering	\$ 7,000.00
Final Engineering	\$ 55,000.00
Inspection Crew Day Cost	\$ 40,000.00
Construction Engineering/Contract Administration	\$ 70,000.00
<b>Total Estimated Project Cost:</b>	<b>\$ 861,200.00</b>
<b>Estimated Wayne County Contribution Amount:</b>	<b>\$ 248,311.00</b>

Total Units: 130

Price Per Unit: \$ 4,715

**Cost/Owner:**

Lump Sum Payout:	\$ 4,715
Cost/Yr at 4% for 10 yrs:	\$ 581.32



## CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

**MEETING DATE:** June 14, 2016

**ITEM:** Roof Repainting – Township Hall and Fire Station

**PRESENTER:** Mark Lewis, Chief Building Official

### **OTHER INDIVIDUALS IN ATTENDANCE:**

**BACKGROUND:** The Township solicited bids for repainting the metal roof on Township Hall and also Fire Station 1. The project scope in the Request for Proposal was as follows: Complete removal of paint, primer and rust from the roof panels and related flashings and counter flashings followed by the application of a high performance paint coating system at the Township Hall and Police Facility Building located at 9955 N. Haggerty Road, Plymouth, Michigan 48170 and Fire Station No. 1 located 9911 N. Haggerty Road, Plymouth, Michigan 48170.

The Township Noise Ordinance VII-5.04.F Construction states that Operating or causing the operation of any tools or equipment used in construction, drilling, repair, alteration, or demolition work between the hours of 10:00 PM and 6:00 AM of the following day, Monday through Saturday, or any time on Sundays, or on holidays, so that the sounds therefrom create a noise disturbance across a residential or commercial real property line or at any time violates the provisions of Section VII-5.05, except for except for emergency work of public service utilities or by variance issued by the appropriate authority.

A total of 2 bids were received on June 3, 2016, one from Rays Painting in the amount of \$205,000 and one from Classic Painting in the amount of \$399,960. The bids were reviewed by Mark Lewis and Ron Kinne from Roofing Technologies Associates, LTD. Mr. Lewis also consulted with Supervisor Price and Trustee Curmi and recommends the bid be awarded to Rays Painting of Livonia.

Mr. Lewis also recommends that the Board grant the contractor a variance to allow them to work on Sundays and holidays to complete the project in a timely manner and reduce the impact the impact on residents visiting the Township during normal business hours.



**ACTION REQUESTED:** Approve Bid and allow Contractor to work on Sundays and holidays as needed.

**BUDGET/ACCOUNT NUMBER:**

**RECOMMENDATION:** Approve the award to Rays Painting and grant the contractor a variance to allow them to work on Sundays and holidays.

**MODEL RESOLUTION:** I move to award the bid for roof repainting for Township Hall and Fire Station 1, to Rays Painting, in the amount of \$205,000 and grant the contractor a variance from Ordinance Noise Ordinance VII-5.04.F to allow them to work on Sundays and holidays.

**ATTACHMENTS:** Winning Bidder's Bid; Bid Specs;

**SECTION 09 9600  
HIGH-PERFORMANCE COATINGS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Exterior high performance coatings applied in field.
  - 1. Exterior Substrates:
    - a. Metal roof with existing Galvalume coating.
- B. Surface preparation.
- C. Debris and media containment.
- D. Existing low-slope roof protection.

**1.02 SUMMARY**

- A. What To Paint: Following removal of the factory-finish and primer in accordance with SSPC-SP 6 - Commercial Blast Cleaning; Society for Protective Coatings:
  - 1. Sheet metal roof panels.
  - 2. Valley flashing.
  - 3. Ridge and hip cap flashing.
  - 4. Eave flashing.
  - 5. Rake edge cap flashing and counterflashing.
  - 6. Peak ridge cap flashing.
  - 7. Panel closures.
  - 8. Skylight flashing and counterflashing.
  - 9. Fascia on the cupola at the Township Office Building.
  - 10. Hot vent stacks, rain caps, vent stack flanged sleeve and umbrella flashing (currently not painted) at the Township Office Building.
- B. Do Not Paint the Following Items:
  - 1. Factory-finished fascia except as noted otherwise.
  - 2. Factory-finished soffit.
  - 3. Factory-finished gravel stop/ fascia.
  - 4. Window frames and skylight frames.
  - 5. Sill flashings.
  - 6. Entrance roof gable end factory-finish wall panels and sill flashing.
  - 7. Gutters and downspouts.
  - 8. Snow guards.
- C. The Do Not Paint Items factory-finish is to remain in tact.

**1.03 REFERENCE STANDARDS**

- A. ASTM D523-14: Standard Test Method for Specular Gloss.
- B. MPI (APL) - Master Painters Institute Approved Products List; Master Painters and Decorators Association; current edition, [www.paintinfo.com](http://www.paintinfo.com).
- C. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual; current edition, [www.paintinfo.com](http://www.paintinfo.com).
- D. SSPC-SP 1 - Solvent Cleaning; Society for Protective Coatings; 2015.
- E. SSPC-SP 6 - Commercial Blast Cleaning; Society for Protective Coatings; 2007.

**1.04 SUBMITTALS**

- A. Product Data: Provide complete list of all products to be used, with the following information for each:
  - 1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").

2. Cross-reference to specified coating system(s) product is to be used in; include description of each system.
  3. Manufacturer's Installation instructions.
- B. Samples: Submit two samples 8 by 8 inch (203 by 203 mm) in size illustrating colors available for selection.
- C. Included with your bid: The painting contractor shall submit the following to the Owner for acceptance:
1. A copy of the firm's written Quality Control Program used to control the quality of surface preparation and coating application including ambient conditions, surface cleanliness and profile, coating mixing, dry film thickness, final film continuity, etc.
  2. A copy of the firm's written surface preparation and application procedures detailing the Materials and Construction Methods. This written program must contain a description of all the equipment that will be used for removal of paint and rust, for surface preparation and for paint mixing and application.
  3. A detailed description of the Contractor's enforcement procedures and the authority of personnel.
  4. Containment plans (paint removal/collection of debris, surface preparation, coating applications, cleaning, etc.).
  5. Proof of SSPC-QP 1 qualifications and QP 2 qualifications, as applicable.
  6. Coating product information, including coating manufacturer, product name, application instructions, technical data, MSDS and color chips.
  7. Abrasive product information, including abrasive manufacturer, product name, technical data, and MSDS.
- D. The Contractor shall not begin any paint removal work until the Owner has accepted the submittals. The Contractor shall not construe Owner acceptance of the submittals to imply approval of any particular method or sequence for conducting the work, or for addressing health and safety concerns. Acceptance of the programs does not relieve the Contractor from the responsibility to conduct the work in strict accordance with the requirements of Federal, State, or local regulations, this specification, or to adequately protect the health and safety of all workers involved in the project and any members of the public who may be affected by the project. The Contractor remains solely responsible for the adequacy and completeness of the programs and work practices, and adherence to them.

#### **1.06 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.
- B. Applicator Qualifications: Company specializing in performing the work of this section with minimum 5 years documented experience.
- C. A minimum of 20 days prior to the start of the Project, the Contractor shall prepare and paint a minimum of 3 test samples on the existing project site roof panels. Sample Size: 36-inches by 36-inches on roof slopes selected by the Owner. The preparation procedure and painting procedure shall match the intended procedure for the entire project. Allow the paint to thoroughly dry so that adhesion testing may be conducted in general accordance with ASTM D3359 – 09, Test Method B (modified for field conditions). Soil Material Engineers (SME) of Plymouth, Michigan will be hired by the Owner to conduct the testing. Proceed with the work on the entire project only after receiving written documentation from SME indicating that the adhesion test has passed the indicated criteria. The test sample areas shall be completely removed, prepared and repainted following testing.
- D. Pre-Installation Conference: Contractor, installer, manufacturer's representative, and representatives of other affected trades shall meet at Site to review procedure, acceptance of substrate surfaces, and coordination with other trades.

#### **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.



- B. Container Label: Include manufacturer's name, type of coating, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
- C. Coating Materials: Store at minimum ambient temperature of 45 degrees F (7 degrees C) and a maximum of 90 degrees F (32 degrees C), in ventilated area, and as required by manufacturer's instructions.
- D. Remove rags, waste, etc., every night and take every precaution to prevent fire, fire hazards or spontaneous combustion.

#### **1.07 FIELD CONDITIONS**

- A. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
- B. Do not apply exterior coatings during rain or snow, or when relative humidity is outside the humidity ranges required by the coating product manufacturer.
- C. Do not install materials when temperature is below 45 degrees F (7 degrees C) or above 90 degrees F (32 degrees C).
- D. Maintain this temperature range, 24 hours before, during, and 72 hours after installation of coating.
- E. Restrict traffic from area where coating is being applied or is curing.

#### **1.08 WARRANTY**

- A. Correct defective Work within a five year period after Date of Substantial Completion.
- B. Warranty: Include coverage for bond to substrate.

### **PART 2 PRODUCTS**

#### **2.01 MANUFACTURERS**

- A. Provide high performance coating products from the same manufacturer .
- B. High-Performance Coatings:
  1. PPG Paints: [www.ppgpaints.com](http://www.ppgpaints.com).
  2. Sherwin-Williams Company; \_\_\_\_\_: [www.protective.sherwin-williams.com/industries](http://www.protective.sherwin-williams.com/industries).
  3. Approved equal.

#### **2.02 HIGH-PERFORMANCE COATINGS**

- A. MPI Standards: Provide products that comply with MPI standards indicated and are listed in "MPI Approved Products List."
- B. Material Compatibility:
  1. Provide materials for use within each coating system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
  2. For each coat in a coating system, provide products recommended in writing by manufacturers of topcoat for use in coating system and on substrate indicated.
- C. Colors: As selected by the Owner from the manufacturer's full range.

#### **2.03 TOP COAT MATERIALS**

- A. Coatings - General: Provide complete multi-coat systems formulated and recommended by manufacturer for the applications indicated, in the thicknesses indicated; number of coats specified does not include primer or filler coat.
- B. Urethane Coating for Top Coats and Intermediate Coats: Solvent based, two component polyurethane, pigmented coating with a gloss finish for exterior metal surfaces, where abrasion, weathering, chemical and solvent resistance is required. Primarily applied by spray, but can be applied by brush or roller in small areas.
  1. Top Coat(s): Polyurethane, Two-Component; MPI #72.
    - a. Sheen: Gloss.

2. Intermediate Coats: Polyurethane, Two-Component; MPI #72.
  - a. Sheen: Semi Gloss.

#### **2.04 PRIMERS**

- A. Primers: Provide the following unless other primer is required or recommended by coating manufacturer, MPI #108.
  1. A two component epoxy, high solids, low gloss coating for use on exterior metal surfaces. For increased durability, this product will be top coated with a two-component polyurethane enamel.

#### **2.05 MISCELLANEOUS MATERIALS**

- A. Additional Snow Guards: Match the existing snow guard system: S-5! with Sno Clip, snow retention system with prefinished ColorGard inserts. The prefinished Colorgard insert color, metal type and gauge is to match the existing Colorgard inserts. Provide the additional snow guards at the locations shown on the Roof Plans.

### **PART 3 EXECUTION**

#### **3.01 EXAMINATION**

- A. Verify existing conditions before starting work.
- B. Do not begin application of coatings until substrates have been properly prepared.
- C. Verify that substrate surfaces are ready to receive work as instructed by the coating manufacturer. Obtain and follow manufacturer's instructions for examination and testing of substrates.
- D. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.
- E. Proceed with coating application only after unacceptable conditions have been corrected.
  1. Commencing coating application constitutes Contractor's acceptance of substrates and conditions.

#### **3.02 PROTECTION**

- A. Any damage resulting from surface preparations, containment and/or overspray from paint operations shall be repaired by the Contractor at no cost to the Owner.
- B. Protect the existing low slope roof membrane and flashing from damage during preparation, painting and clean up of the steep slope roof panels. Under no circumstance is foot traffic, equipment or materials allowed to contact the existing EPDM membrane.
- C. Access paths, staging areas and storage areas are to be protected and maintained as follows.
  1. Loose lay plastic sheeting directly down on the roof membrane surface.
  2. Loose lay minimum 1-inch thick rigid closed cell foam insulation boards on the plastic sheeting.
  3. Loose lay 3/4-inch thick plywood over the insulation boards. Install ballast as required to prevent displacement.
- D. Upon completion of the work, remove and discard protection from the roof membrane surface.
- E. Immediately patch damaged areas with permanent EPDM patch materials following the EPDM membrane manufacturer's required repair procedures.
- F. No ATVs will be allowed on the roof.

#### **3.03 CONTAINMENT**

- A. The Owner plans to occupy the building during construction. Provide protective tarps at the entrances to the buildings to protect the public entering and leaving the building. The protective tarps are to remain throughout the construction process. Immediately remove the protection following construction

- B. Provide scaffolding, plywood sheathing, tarps and covers as necessary to limit the air born spread of media and paint debris during commercial blast cleaning. Similarly, provide containment during painting operations to limit overspray.

#### **3.04 REMOVAL**

- A. Remove snow guards and save for reinstallation. NOTE: locations where additional snow guards are to be installed following painting of the roof panels.
- B. Remove rooftop debris from low-slope roof surfaces and gutters prior to installing membrane protection.

#### **3.05 PREPARATION**

- A. Follow the abrasive equipment manufacturer's operational manual.
- B. Follow Occupational Safety & Health Administration (OSHA) regulations during abrasive blast operations for workers and the public.
- C. Use media capable of removing paint coats and rust. Maintain the Galvalume coating on the base metal if possible.
- D. Apply protective coverings and masking tape over surfaces on the Do Not Paint list.
- E. Remove all protective coverings and masking tape when coating of surfaces is completed.
- F. Galvanized Surfaces:
  - 1. Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.
  - 2. Remove rust, loose mill scale, paint, primer and other foreign substances using methods recommended in writing by paint manufacturer and blast cleaning according to SSPC-SP 6 "Commercial Blast Cleaning", and protect from corrosion until coated.
  - 3. It is the intention of these specifications that the paint coats and rust are to be completely removed. The Galvalume coating on the base metal is to remain.
- G. Protect adjacent surfaces and materials not receiving coating from spatter and overspray; mask if necessary to provide adequate protection. Repair damage.

#### **3.06 PRIMING**

- A. Areas commercially blast cleaned must be primer coated on the same day.
- B. Apply primer to all surfaces on the What To Paint list, unless specifically not required by coating manufacturer. Apply in accordance with coating manufacturer's instructions.

#### **3.07 COATING APPLICATION**

- A. Apply coatings in accordance with manufacturer's written instructions, to thicknesses specified and recommendations in "MPI Architectural Painting and Specification Manual".
- B. Apply in uniform thickness coats, without runs, drips, pinholes, brush marks, or variations in color, texture, or finish. Finish edges, crevices, corners, and other changes in dimension with full coating thickness.

#### **3.08 FIELD QUALITY CONTROL**

- A. Dry Film Thickness Testing: Owner will engage the services of a qualified testing and inspecting agency to inspect and test coatings for dry film thickness.
  - 1. Touch up and restore coated surfaces damaged by testing.
  - 2. If test results show that dry film thickness of applied coating does not comply with coating manufacturer's written recommendations, and specified thickness, Contractor shall pay for retesting and apply additional coats as needed to provide dry film thickness that complies with coating manufacturer's written recommendations, and specified thickness.

#### **3.09 INSTALLATION**

- A. Reinstall the snow guards in their original position. Attach to the roof panel ribs as originally installed.
- B. Install new snow guards in the locations indicated on the Roof Plan. Follow the manufacturer installation instructions for a non-penetrating installation.

### 3.10 CLEANING

- A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.
- B. Clean surfaces immediately of overspray, splatter, and excess material.
- C. After coating has cured, clean and replace finish hardware, fixtures, and fittings previously removed.

### 3.11 PROTECTION

- A. Protect finished work from damage.

### 3.12 SCHEDULE

- A. Colors: As indicated by the Owner.
- B. Galvanized Steel Substrates:
  - 1. Sherwin Williams Pigmented Polyurethane System:
    - a. Primer Coat: Epoxy, high-build, low gloss: S-W Macropoxy 646 Fast Cure Epoxy, B58 Series, at 5 to 10 mils dry, per coat.
    - b. Intermediate Coat: Polyurethane, two-component, pigmented, semi-gloss: S-W Acrolon 218 HS Acrylic Polyurethane, B65-650 Series, at 3 to 6 mils dry, per coat.
    - c. Topcoat MPI: Polyurethane, two-component, pigmented, gloss: S-W Acrolon 218 HS Acrylic Polyurethane, B65-600 Series, at 3 to 6 mils dry, per coat.
  - 2. PPG Paints Pigmented Polyurethane System:
    - a. Primer Coat: Epoxy, high-build, semi gloss: High Build Epoxy Marine Coating 97-131/ 97-139 at 5 to 10 mils dry, per coat.
    - b. Intermediate Coat: Acrylic Aliphatic Urethane, two-component, pigmented, semi-gloss: Pitthane High Build Semi Gloss Urethane Enamel 95-8800 Series at 3 to 6 mils dry, per coat.
    - c. Topcoat: Acrylic Aliphatic Urethane, two-component, pigmented, gloss: Pitthane Ultra Gloss Urethane Enamel 95-812/ 819 at 3 to 6 mils dry, per coat.

**END OF SECTION**

SECTION 00 4100

BID FORM

THE PROJECT AND THE PARTIES

1.01 TO:

- A. Owner
1. The Charter Township of Plymouth
  2. 9955 N. Haggerty Road
  3. Plymouth, MI 48170-4673

1.02 FOR:

- A. Project: Plymouth Township Roof Panel Remediation.
1. Plymouth Township Hall and Police Facility, 9955 N. Haggerty Road, Plymouth, MI.
  2. Plymouth Township Fire Station No. 1, 9911 N. Haggerty Road, Plymouth, MI.

1.03 DATE: 6-3-16 (BIDDER TO ENTER DATE)

1.04 SUBMITTED BY: (BIDDER TO ENTER NAME AND ADDRESS)

- A. Bidder's Full Name RAY'S PAINTING - RAYMOND BITNER
1. Address 29048 RUSH ST
  2. City, State, Zip GARDEN CITY, MI 48135

1.05 GENERAL CONDITIONS

- A. The undersigned in submitting this proposal agrees as follows:
1. The entire work shall be subject to the requirements of the General Conditions of the Contract contained in and forming a part of the Agreement.
- B. Prior to execution of the Agreement for this work, the Contractor shall furnish the Owner with copies of Certificates of Insurance.

1.06 LIABILITY

- A. The Contractor shall and does assume liability under the terms of the Workmen's Compensation Law of the State in which the work is being performed.
- B. Contractor assumes all liability for injury to persons or damage to, or loss of property of (a) Contractor, his agents or employees, (b) Owner, its agents or employees, and (c) any other person, firm or corporation arising in any way directly or indirectly out of the performance of this Contract whether or not such injury, damage, or loss is due to the negligence of the Contractor, its agents or employees. This foregoing assumption of liability by Contractor shall include, without limiting the generality of the foregoing, any injury, damage, or loss arising out of the operation of motor vehicles. This assumption of liability by Contractor shall also include, without limiting the generality of the foregoing, any injury, damage or loss (1) arising out of the negligence of Contractor, (2) arising out of the joint or combined negligence of Contractor and Owner, (3) arising out of the negligence of a third party or parties and Contractor, or (4) without limiting in any way the foregoing, arising in any way, directly or indirectly out of the conduct or occurrence not fully limited to the separate sole negligence of the Owner as proven by Contractor or third party.
- C. Should the Owner or an agent or employee of the Owner be made a party to any suit or proceeding, even though such suit or proceeding is groundless, false or fraudulent, arising out of injury, damage, or loss for which the Contractor assumes liability under this Contract, the Contractor will defend such suit or proceeding and shall indemnify and save harmless the Owner, its agents or employees, of and from all liability loss, expenses, judgments (including interest thereon), including Attorney's fees.
- D. Since Contractor hereunder shall be an independent Contractor and not agent, servant, or employee of Owner, Contractor assumes full responsibility for compliance with any and all Federal, State, or municipal laws, ordinances, and regulations, including (but not limited to) those having to do with labor, wages and benefits, or taxes and duties collectible from employees under all applicable provisions of the law.

**1.07 INSURANCE**

- A. Unless otherwise specified, the Contractor shall, before commencing work hereunder, procure and thereafter maintain policies of insurance satisfactory to the Owner covering the liabilities assumed above in the following minimum amounts.
- B. Property Damage \$1,000,000 (each accident)
- C. Bodily Injury \$ 500,000 (each person)
- D. Workmen's Compensation Insurance All liabilities imposed by Workmen's Compensation statute
- E. Employers Liability Insurance \$ 100,000
- F. Contractual Liability Insurance \$ 500,000
- G. Completed Operations Insurance \$ 500,000
- H. Owned, Hired and Non-Ownership Vehicle Bodily Injury and Property Damage to the following Limits:
  - 1. bodily injury \$ 500,000 (each person)
  - 2. accidental death \$1,000,000 (each accident)
  - 3. property damage \$1,000,000 (each accident)
- I. The following party must be named as additional Insured: Charter Township of Plymouth.
- J. The Contractor agrees to file with the Owner's Agent before commencing work hereunder, copies of policies of such insurance which shall contain by endorsement, the specific liabilities assumed above, together with Certificates of Insurance which shall contain a provision that no change in the amount of said insurance, or termination thereof, shall take place without previous 10 days written notice to the Owner's Agent and its written consent to such change or termination.

**1.08 OFFER**

- A. TO:
  - 1. Charter Township of Plymouth
  - 2. c/o Ms. Nancy Conzelman, Plymouth Township Clerk
  - 3. Plymouth Township Clerk's Office
  - 4. 9955 N. Haggerty Road
  - 5. Plymouth, Michigan 48170-4673
- B. PROPOSAL FOR:
  - 1. Plymouth Township - 2016 Roof Panel Remediation
- C. The undersigned having examined the Bidding Documents, including the Advertisement for Bids, Instructions to Bidders, Insurance Requirements, General Conditions, Technical Specifications and Plans, and being familiar with all conditions affecting these proposed projects, hereby proposes to furnish all labor, materials, tools, equipment, utilities, transportation or other facilities and services necessary to perform and complete in a workmanlike manner the construction of the proposed project(s), all in accordance with the Bidding Documents, for the sums and under the conditions as follows:
- D. **BASE BID FOR THE ROOF PANEL REMEDIATION AT THE PLYMOUTH TOWNSHIP HALL AND POLICE FACILITY AND THE PLYMOUTH TOWNSHIP FIRE STATION NO. 1** - The undersigned agrees to the performance of the Work as Stated for the Base Bid Sum of (the amounts shall be in both words and figures with the amount in words governing in the event of discrepancy):
  - 1. Two Hundred & Five Thousand Dollars
  - 2. (\$ 205,000.00), in lawful money of the United States of America.
  - 3. Paint Manufacturer to be used: SHERWIN WILLIAMS
- E. We have included the required security deposit as required by the Instruction to Bidders.



F. All applicable federal taxes are included and State of Michigan taxes are included in the Bid Sum.

**1.09 ACCEPTANCE**

- A. This offer shall be open to acceptance and is irrevocable for sixty days from the bid closing date.
- B. If this bid is accepted by Owner within the time period stated above, we will:
  - 1. Execute the Agreement within seven days of receipt of Notice of Award.
  - 2. Furnish the required bonds within seven days of receipt of Notice of Award.
- C. If this bid is accepted within the time stated, and we fail to commence the Work or we fail to provide the required Bond(s), the security deposit shall be forfeited as damages to Owner by reason of our failure, limited in amount to the lesser of the face value of the security deposit or the difference between this bid and the bid upon which a Contract is signed.
- D. In the event our bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

**1.10 CONTRACT TIME**

- A. If this Bid is accepted, we will:
- B. Complete the Work by AUGUST 15, 2016 (Bidder to enter completion date or time frame.)

**1.11 ALTERNATES**

- A. The undersigned agrees that at the Owner's discretion, the Base Bid Sum may be altered as follows if the Alternate Price indicated and defined in the Alternates Section and elsewhere in the Bidding Documents need to be executed (Failure to bid upon requested Alternate Price shall indicate no change in the Base Bid Sum).
- B. ALTERNATE NO. 1 - Performance, Labor and Material and Maintenance and Guarantee Bonds
  - 1. Add the sum of: \_\_\_\_\_ Dollars
  - 2. (\$ \_\_\_\_\_)
  - 3. lump sum

**1.12 ADDENDA**

- A. The following Addenda have been received. The modifications to the Bid Documents noted below have been considered and all costs are included in the Bid Sum.
  - 1. Addendum # \_\_\_\_\_ Dated \_\_\_\_\_
  - 2. Addendum # \_\_\_\_\_ Dated \_\_\_\_\_

**1.13 BID FORM SIGNATURE(S)**

- A. The Corporate Seal of
- B. RAY'S PAINTING
- C. (Bidder - print the full name of your firm)
- D. was hereunto affixed in the presence of:
- E. \_\_\_\_\_
- F. (Authorized signing officer, Title)
- G. (Seal)
- H. Ray B. OWNER
- I. (Authorized signing officer, Title)

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**From:** Ron Kinne [<mailto:rkinne@rtaltd.com>]  
**Sent:** Thursday, June 09, 2016 4:14 PM  
**To:** 'shannonprice@plymouthtp.org'; 'Lewis, Mark'  
**Cc:** 'Laurie Banka'  
**Subject:** Ray's Painting References

RE: Plymouth Township Hall, Police Station and Fire Station

Hi Shannon,

**Ray Bitner of Ray's Painting** in Livonia was the low bidder on the recently bid project to repaint the sheet metal roof panels on the referenced buildings. I called Ray on Monday (6/6) and asked for references. He provided 4 names with contact information. I called each of the references:

**Dembs, Roth & Gyselinck:** I spoke to Leonard Gyselinck. Mr. Gyselinck says he has known Ray for 15 years. Ray has worked all over the country for D,R&G on Industrial and Commercial buildings; both interior and exterior. He says Ray always does what he says he will do for the agreed upon price.

**Dan's Excavating:** I spoke to Brett Baker. Mr. Baker has known Ray for 16 or 17 years. Ray has worked on Industrial and Commercial buildings; both interior and exterior. Mr. Baker must be in charge of a facilities armor division of Dan's Excavating. Mr. Baker says that Ray is very qualified for this project and he would not hesitate to hire him for this project.

**Hi-Tech Mold:** I spoke to Don Finch. Mr. Finch has known Ray for 10 to 12 years. Ray has done all kinds of work for Mr. Finch at Hi-Tech. Mr. Finch says that Ray's work is outstanding and that there is nobody better in the business.

**Z-Mold:** I spoke to Kurt (no last name given). Kurt has known Ray for 20 years. Ray has worked for Kurt at Kurt's last two companies (He also worked for Kurt at Hi-Tech). Kurt says Rays has painted the complete interior at Z-Mold. He finishes his work on a timely basis. Some work has to be coordinated with shut periods due to 24 hour operations. Ray has done both interior and exterior work for Kurt. Kurt says Ray is a stand up guy and always comes through for him.

Based upon these references and the Bid Sum somewhat close to what we anticipated, RTA recommends that the Township hire Ray's Painting. Ray needs to provide Bid Security and the Township needs to talk to him about Bonds and Certificate of Insurance. Sherwin Williams has already indicated that Ray would receive the line of credit needed so he should not need a down payment to get started; nor do we endorse paying a down payment. The only thing we do not know is how financially stable his company is. Should we ask for a Contractor's Statement? Please advise.

Regards,

Ron Kinne, RRC, RRO  
Roofing Technology Associates, Ltd.  
38031 Schoolcraft  
Livonia, MI 48150  
Office: 734-591-4444  
Cell: 734-516-5151  
Fax: 734-591-1660  
[rkinne@rtaltd.com](mailto:rkinne@rtaltd.com)



SECTION 00 4100

BID FORM

THE PROJECT AND THE PARTIES

1.01 TO:

- A. Owner
1. The Charter Township of Plymouth
  2. 9955 N. Haggerty Road
  3. Plymouth, MI 48170-4673

1.02 FOR:

- A. Project: Plymouth Township Roof Panel Remediation.
1. Plymouth Township Hall and Police Facility, 9955 N. Haggerty Road, Plymouth, MI.
  2. Plymouth Township Fire Station No. 1, 9911 N. Haggerty Road, Plymouth, MI.

1.03 DATE: 6-2-16 (BIDDER TO ENTER DATE)

1.04 SUBMITTED BY: (BIDDER TO ENTER NAME AND ADDRESS)

- A. Bidder's Full Name Classic Painting Company, Inc
1. Address 510 E. Grand River Ave. Ste. 2
  2. City, State, Zip Brighton, MI 48111

1.05 GENERAL CONDITIONS

- A. The undersigned in submitting this proposal agrees as follows:
1. The entire work shall be subject to the requirements of the General Conditions of the Contract contained in and forming a part of the Agreement.
- B. Prior to execution of the Agreement for this work, the Contractor shall furnish the Owner with copies of Certificates of Insurance.

1.06 LIABILITY

- A. The Contractor shall and does assume liability under the terms of the Workmen's Compensation Law of the State in which the work is being performed.
- B. Contractor assumes all liability for injury to persons or damage to, or loss of property of (a) Contractor, his agents or employees, (b) Owner, its agents or employees, and (c) any other person, firm or corporation arising in any way directly or indirectly out of the performance of this Contract whether or not such injury, damage, or loss is due to the negligence of the Contractor, its agents or employees. This foregoing assumption of liability by Contractor shall include, without limiting the generality of the foregoing, any injury, damage, or loss arising out of the operation of motor vehicles. This assumption of liability by Contractor shall also include, without limiting the generality of the foregoing, any injury, damage or loss (1) arising out of the negligence of Contractor, (2) arising out of the joint or combined negligence of Contractor and Owner, (3) arising out of the negligence of a third party or parties and Contractor, or (4) without limiting in any way the foregoing, arising in any way, directly or indirectly out of the conduct or occurrence not fully limited to the separate sole negligence of the Owner as proven by Contractor or third party.
- C. Should the Owner or an agent or employee of the Owner be made a party to any suit or proceeding, even though such suit or proceeding is groundless, false or fraudulent, arising out of injury, damage, or loss for which the Contractor assumes liability under this Contract, the Contractor will defend such suit or proceeding and shall indemnify and save harmless the Owner, its agents or employees, of and from all liability loss, expenses, judgments (including interest thereon), including Attorney's fees.
- D. Since Contractor hereunder shall be an independent Contractor and not agent, servant, or employee of Owner, Contractor assumes full responsibility for compliance with any and all Federal, State, or municipal laws, ordinances, and regulations, including (but not limited to) those having to do with labor, wages and benefits, or taxes and duties collectible from employees under all applicable provisions of the law.

**1.07 INSURANCE**

- A. Unless otherwise specified, the Contractor shall, before commencing work hereunder, procure and thereafter maintain policies of insurance satisfactory to the Owner covering the liabilities assumed above in the following minimum amounts.
- B. Property Damage \$1,000,000 (each accident)
- C. Bodily Injury \$ 500,000 (each person)
- D. Workmen's Compensation Insurance All liabilities imposed by Workmen's Compensation statute
- E. Employers Liability Insurance \$ 100,000
- F. Contractual Liability Insurance \$ 500,000
- G. Completed Operations Insurance \$ 500,000
- H. Owned, Hired and Non-Ownership Vehicle Bodily Injury and Property Damage to the following Limits:
  - 1. bodily injury \$ 500,000 (each person)
  - 2. accidental death \$1,000,000 (each accident)
  - 3. property damage \$1,000,000 (each accident)
- I. The following party must be named as additional insured: Charter Township of Plymouth.
- J. The Contractor agrees to file with the Owner's Agent before commencing work hereunder, copies of policies of such insurance which shall contain by endorsement, the specific liabilities assumed above, together with Certificates of Insurance which shall contain a provision that no change in the amount of said insurance, or termination thereof, shall take place without previous 10 days written notice to the Owner's Agent and its written consent to such change or termination.

**1.08 OFFER**

- A. TO:
  - 1. Charter Township of Plymouth
  - 2. c/o Ms. Nancy Conzelman, Plymouth Township Clerk
  - 3. Plymouth Township Clerk's Office
  - 4. 9955 N. Haggerty Road
  - 5. Plymouth, Michigan 48170-4673
- B. PROPOSAL FOR:
  - 1. Plymouth Township - 2016 Roof Panel Remediation
- C. The undersigned having examined the Bidding Documents, including the Advertisement for Bids, Instructions to Bidders, Insurance Requirements, General Conditions, Technical Specifications and Plans, and being familiar with all conditions affecting these proposed projects, hereby proposes to furnish all labor, materials, tools, equipment, utilities, transportation or other facilities and services necessary to perform and complete in a workmanlike manner the construction of the proposed project(s), all in accordance with the Bidding Documents, for the sums and under the conditions as follows:
- D. BASE BID FOR THE ROOF PANEL REMEDIATION AT THE PLYMOUTH TOWNSHIP HALL AND POLICE FACILITY AND THE PLYMOUTH TOWNSHIP FIRE STATION NO. 1 - The undersigned agrees to the performance of the Work as Stated for the Base Bid Sum of (the amounts shall be in both words and figures with the amount in words governing in the event of discrepancy):
  - 1. Three hundred ninety nine thousand nine hundred sixty Dollars
  - 2. (\$ 399,960), in lawful money of the United States of America.
  - 3. Paint Manufacturer to be used: Sherwin-Williams
- E. We have included the required security deposit as required by the Instruction to Bidders.

- F. All applicable federal taxes are included and State of Michigan taxes are included in the Bid Sum.

**1.09 ACCEPTANCE**

- A. This offer shall be open to acceptance and is irrevocable for sixty days from the bid closing date.
- B. If this bid is accepted by Owner within the time period stated above, we will:
  - 1. Execute the Agreement within seven days of receipt of Notice of Award.
  - 2. Furnish the required bonds within seven days of receipt of Notice of Award.
- C. If this bid is accepted within the time stated, and we fail to commence the Work or we fail to provide the required Bond(s), the security deposit shall be forfeited as damages to Owner by reason of our failure, limited in amount to the lesser of the face value of the security deposit or the difference between this bid and the bid upon which a Contract is signed.
- D. In the event our bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

**1.10 CONTRACT TIME**

- A. If this Bid is accepted, we will:
- B. Complete the Work by sixty 8 weeks (Bidder to enter completion date or time frame.)

**1.11 ALTERNATES**

- A. The undersigned agrees that at the Owner's discretion, the Base Bid Sum may be altered as follows if the Alternate Price indicated and defined in the Alternates Section and elsewhere in the Bidding Documents need to be executed (Failure to bid upon requested Alternate Price shall indicate no change in the Base Bid Sum).
- B. ALTERNATE NO. 1 - Performance, Labor and Material and Maintenance and Guarantee Bonds
  - 1. Add the sum of:
  - 2. Ten thousand Dollars  
(\$10,000)
  - 3. lump sum

**1.12 ADDENDA**

- A. The following Addenda have been received. The modifications to the Bid Documents noted below have been considered and all costs are included in the Bid Sum.
  - 1. Addendum # N/A Dated N/A
  - 2. Addendum # N/A Dated N/A

**1.13 BID FORM SIGNATURE(S)**

- A. The Corporate Seal of
- B. Classic Printing Company, Inc.
- C. (Bidder - print the full name of your firm)
- D. was hereunto affixed in the presence of:
- E. [Signature] Estimator/PM
- F. (Authorized/signing officer, Title)
- G. (Seal)
- H. [Signature] Estimator/PM
- I. (Authorized signing officer, Title)

**1.14 IF THE BID IS A JOINT VENTURE OR PARTNERSHIP, ADD ADDITIONAL FORMS OF EXECUTION FOR EACH MEMBER OF THE JOINT VENTURE IN THE APPROPRIATE FORM OR FORMS AS ABOVE.**

**END OF BID FORM**

**Bid Bond**

**AIA Document A310™ – 2010**

**CONTRACTOR:**

*(Name, legal status and address)*

**CLASSIC PAINTING COMPANY, INC.**  
810 E. Grand River  
Brighton, MI 48116

Bid Bond No. GR07858

**SURETY:**

*(Name, legal status and principal place of business)*

**Granite Re, Inc.**  
14001 Quailbrook Dr  
Oklahoma City, OK 73134

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

**OWNER:**

*(Name, legal status and address)*

Charter Township of Plymouth  
9955 Haggerty Rd  
Plymouth, MI 48170

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

**BOND AMOUNT:** Five Percent of the Bid Amount (5.00% of Bid Amount)

**PROJECT:**

*(Name, location or address, and Project number, if any)*

**Metal Roof Repainting Project; ITB-ML-16-002**

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 2nd day of June, 2016

\_\_\_\_\_  
*(Witness)*  
  
\_\_\_\_\_  
*(Witness)* **Moll J. Hansen**

\_\_\_\_\_  
**CLASSIC PAINTING COMPANY, INC.**  
*(Principal)* *(Seal)*  
  
\_\_\_\_\_  
*(Title)*  
**Granite Re, Inc.**  
*(Surety)* *(Seal)*  
  
\_\_\_\_\_  
*(Title)* **Robert Downey, Attorney-in-Fact**

# GRANITE RE, INC.

## GENERAL POWER OF ATTORNEY

**Know all Men by these Presents:**

That GRANITE RE, INC., a corporation organized and existing under the laws of the State of OKLAHOMA and having its principal office at the City of OKLAHOMA CITY in the State of OKLAHOMA does hereby constitute and appoint:

MICHAEL J. DOUGLAS; CHRIS STEINAGEL; CHRISTOPHER M. KEMP; KARLA HEFFRON; ROBERT DOWNEY; CONNIE SMITH its true and lawful Attorney-in-Fact(s) for the following purposes, to wit:

To sign its name as surety to, and to execute, seal and acknowledge any and all bonds, and to respectively do and perform any and all acts and things set forth in the resolution of the Board of Directors of the said GRANITE RE, INC. a certified copy of which is hereto annexed and made a part of this Power of Attorney; and the said GRANITE RE, INC. through us, its Board of Directors, hereby ratifies and confirms all and whatsoever the said:

MICHAEL J. DOUGLAS; CHRIS STEINAGEL; CHRISTOPHER M. KEMP; KARLA HEFFRON; ROBERT DOWNEY; CONNIE SMITH may lawfully do in the premises by virtue of these presents.

In Witness Whereof, the said GRANITE RE, INC. has caused this instrument to be sealed with its corporate seal, duly attested by the signatures of its President and Secretary/Treasurer, this 3<sup>rd</sup> day of July, 2013.

STATE OF OKLAHOMA )  
 ) SS:  
 COUNTY OF OKLAHOMA )



*Kenneth D. Whittington*  
 Kenneth D. Whittington, President

*Kyle P. McDonald*  
 Kyle P. McDonald, Treasurer

On this 3<sup>rd</sup> day of July, 2013, before me personally came Kenneth D. Whittington, President of the GRANITE RE, INC. Company and Kyle P. McDonald, Secretary/Treasurer of said Company, with both of whom I am personally acquainted, who being by me severally duly sworn, said, that they, the said Kenneth D. Whittington and Kyle P. McDonald were respectively the President and the Secretary/Treasurer of GRANITE RE, INC., the corporation described in and which executed the foregoing Power of Attorney; that they each knew the seal of said corporation; that the seal affixed to said Power of Attorney was such corporate seal, that it was so fixed by order of the Board of Directors of said corporation, and that they signed their name thereto by like order as President and Secretary/Treasurer, respectively, of the Company.

My Commission Expires:  
 August 8, 2017  
 Commission #: 01013257



*Kathleen E. Carlson*  
 Notary Public

### GRANITE RE, INC. Certificate

THE UNDERSIGNED, being the duly elected and acting Secretary/Treasurer of Granite Re, Inc., an Oklahoma Corporation, HEREBY CERTIFIES that the following resolution is a true and correct excerpt from the July 15, 1987, minutes of the meeting of the Board of Directors of Granite Re, Inc. and that said Power of Attorney has not been revoked and is now in full force and effect.

"RESOLVED, that the President, any Vice President, the Secretary, and any Assistant Vice President shall each have authority to appoint individuals as attorneys-in-fact or under other appropriate titles with authority to execute on behalf of the company fidelity and surety bonds and other documents of similar character issued by the Company in the course of its business. On any instrument making or evidencing such appointment, the signatures may be affixed by facsimile. On any instrument conferring such authority or on any bond or undertaking of the Company, the seal, or a facsimile thereof, may be impressed or affixed or in any other manner reproduced; provided, however, that the seal shall not be necessary to the validity of any such instrument or undertaking."

IN WITNESS WHEREOF, the undersigned has subscribed this Certificate and affixed the corporate seal of the Corporation this  
3<sup>rd</sup> day of JULY, 2013



*Kyle P. McDonald*  
 Kyle P. McDonald, Secretary/Treasurer





## CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

**MEETING DATE:** Tuesday, June 14, 2016

**ITEM:** Water and Sewer Rates beginning July1, 2016

**PRESENTERS:** Treasurer Ron Edwards  
Director of Public Utilities Patrick Felrath

**BACKGROUND:** The Great Lakes Water Authority ( Formerly the City of Detroit) revised the methodology in computing water rate increases for their Wholesale Customers. The rate increase for Plymouth Township is 5.4%. Sewerage from Plymouth Township flows to the WTUA Western Townships Utilities Authority where the Authority sends flows onto two systems, YCUA and their Ypsilanti treatment facility and the Wayne County NHV/RV inceptor which eventually flows to the DWSD treatment facility. Increases for sewerage treatment service from YCUA and the Wayne County NHV/RV system are anticipated to be increased approximately 5%. Based on 2015 costs the increases will amount to approximately \$395,000. Due to the substantial increase in funds it is only responsible to decrease rates to the users of the system.

Based upon those factors, it is recommended the WC Water Charge be decreased by \$0.20 and the SD- Sewage Disposal Rate decreased \$0.30 per one-thousand gallons.

Water Consumption Rate would decrease from \$3.98 to \$3.78 per 1000 gallons  
Sewerage Disposal Rate would decrease from \$5.97 to \$5.67 per 1000 gallons

The combined water and sewage rate would go from \$9.95 to \$9.45 per one-thousand gallons of water. This in an overall decrease of 5% to the average residential water bill. This will result in an annual decrease of \$52.50 or \$13.13 per quarterly water bill

**BUDGET/ACCOUNT NUMBER:** Water and Sewer/ July 1, 2016

**RECOMMENDATION:** Approve water and sewer rate reductions

**MODEL RESOLUTION:** I move to revise the Comprehensive Fee Schedule with the new rates as provided in said schedule. The new water rate will be \$3.98 and sewer rate will be \$5.67 per 1000 gallons



OFFICE OF THE CHIEF EXECUTIVE OFFICER  
SUITE 1900  
DETROIT, MICHIGAN 48226  
[WWW.GLWATER.ORG](http://WWW.GLWATER.ORG)

Patrick Fellrath, Twp. Civil Engineer  
Township of Plymouth  
9955 N. Haggerty Road  
Plymouth, MI 48170

May 26, 2016

RE: Great Lakes Water Authority FY 2017 Wholesale Water Schedule of Charges

On May 25, 2016, the Great Lakes Water Authority ("GLWA") Board of Directors approved the schedule of wholesale water charges for FY 2017. These service charges continue to incorporate our ongoing efforts to control expenses while providing quality water services to all our customers.

When the FY 2017 water service charges were presented in January 2016, the proposed increase in charges reflected a budget increase of 4 percent, consistent with the terms of the Memorandum of Understanding (MOU) and Lease Agreements that established GLWA. In addition to the budget increase, the charges also reflect adjustments due to reductions in sales volumes. On average, volume reductions result in an average increase of 0.3 %. Based on the schedule of charges adopted by the Board, GLWA has held to the 4.3 percent average charge increase to the wholesale customer class as shown below:

<u>Category</u>	<u>Water</u>
Budget Variance	4.00%
Sales Volume Adjustment	0.30%
Total Charge Adjustment	<u>4.30%</u>

Our pledge to you is to continue to control the budget within a 4 percent ceiling to mitigate increases in future system revenue charges. Cost containment initiatives continue to be a top priority for GLWA.

Since the stand-up of the GLWA on January 1, 2016, we have been working diligently to complete the separation of the GLWA regional system and the DWSD local system. One of primary efforts over the past five months has been the completion of GLWA's inaugural financial plan, including its first biennial budget, its first capital improvement plan and its first schedule of wholesale customer charges. The evolution of these documents can be found on both the Audit Committee and Capital Improvement Committee pages at [glwater.org](http://glwater.org).





OFFICE OF THE CHIEF EXECUTIVE OFFICER  
SUITE 1900  
DETROIT, MICHIGAN 48226  
[WWW.GLWATER.ORG](http://WWW.GLWATER.ORG)

As noted in the charge calculations for FY 2017, the water system continues to experience declining billable water units. The FY 2017 water charges represent the second year where the rolling twenty-four (24) month average actual usage for each community is used to determine customer volumes in the calculation of revenue requirements and the resulting 60 percent Fixed Monthly Charge and 40 percent Commodity Charge cost recovery allocation.

Although the average wholesale customer charge increase is 4.3 percent, the change in water service charges for your community will differ from the wholesale customer average based on your specific contracted demands on the water system and your change in 24 month average annual water usage.

For FY 2016 this has resulted in annual volume and revenue performance of 99 percent compared to budgeted amounts through (MONTH) 2016. This performance indicates we are achieving the intended goal of more consistent revenues with the updated charge structure, allowing GLWA to accomplish the operating and capital program improvements required to provide reliable delivery of the high quality water your community deserves.

The approval of the new charge schedule comes as a result of our collaborative process with representatives of our suburban wholesale and Detroit retail customers. GLWA continues to extend its thanks to the efforts of the Water Technical Advisory Committee and related activities of the Customer Outreach Program. The Board of Directors and the GLWA staff value their continuing participation and feedback through these forums.

It continues to be our pleasure to provide you these services. If you have any questions regarding the upcoming changes in unit costs and charges, or other related matters in this letter, please contact Jon Wheatley, Public Finance Manager at (313) 224-4771.

Sincerely yours,

Sue F. McCormick  
Director

Enclosures



**FY 2017 Suburban Wholesale Water Service Charge Schedule Calculation \*  
Plymouth Township**

	(1)	(2)	(3)	(4)
	Total Cost Pool \$	Plymouth Township SHARE % Share (a)	Allocation \$	Service Charge Schedule
<b>BUDGET Categories</b>				
1 Commodity	11,883,200	0.917%	109,000	
2 Max Day Usage	138,827,200	1.187%	1,624,000	
3 Peak Hour Increment	9,604,000	0.000%	0	
4 Peak Hour Distance	41,558,800	1.191%	495,200	
5 Commodity Distance-Elevation	28,240,200	1.419%	372,400	
6 Max Day Distance-Elevation	8,511,000	1.698%	144,600	
7 Peak Hour Distance-Elevation	78,422,100	1.384%	1,057,700	
8 Peak Hour Increment Distance-Elevation	13,120,100	0.000%	0	
9 Subtotal Common-To-All	324,168,400	1.173%	3,802,800	
10 Suburban Only - Meter Related	3,832,700	0.444%	17,000	
11 Suburban Only - Customer Outreach	1,138,800	1.214%	13,800	
12 Subtotal FY 2017 BUDGET			3,833,700	
13 Detroit / Suburban Ownership Adjustment	20,700,000	1.309%	270,900	
14 Total Amount for Net Charges	349,835,900		4,104,600	\$24.88 per Mcl avg u.c.
<b>FY 2017 Rate Schedule</b>				
15 Fixed Monthly Charges @ 60%			2,462,800	\$205,200 per month
16 Commodity Charges @ 40%		165,000	1,641,800	\$9.95 per Mcl
<b>(a) Units / SHARE Calculations</b>				
	Basis	Units Mcl/day	Applied Units Mcl/day ~	
17 Annual Sales - Mcl	165,000	452.1		Avg annual for 24 mos. -> 9/2015
18 Allocated Non-Revenue Water		70.6		Allocated share @ 0.0% of sales
19 Commodity Units		522.7	522.7	Ln 17 + Ln 18
20 Max Day Units - mgd	10.00	1,336.8	1,407.4	Contract or proxy + Ln 18
21 Peak Hour Units - mgd	10.00	1,336.8	1,407.4	Contract or proxy + Ln 18
22 Distance - miles	31.3			
23 Elevation - feet	793.0			
24 Dist-Elev Factor - miles	48.8			[Ln 23-610]/10.56 + Ln 22
<b>Cost Pool / Usage Category</b>				
25 Commodity Units - Mcl	522.7	57,008	0.917%	Ln 19
26 Max Day Units - Mcl/Day	1,407.4	118,579	1.187%	Ln 20
27 Peak Hour Increment - Mcl/Day	0.0	28,068	0.000%	Ln 21 - Ln 20
28 Peak Hour Distance - Mcl-miles/Day	44,051.8	3,897,273	1.191%	Ln 21 x Ln 22
29 Commodity Distance-Elevation - Mcl-miles/Day	25,403.2	1,789,866	1.419%	Ln 19 x Ln 24
30 Max Day Distance-Elevation - Mcl-miles/Day	68,399.9	4,027,272	1.698%	Ln 20 x Ln 24
31 Peak Hour Distance-Elevation - Mcl-miles/Day	68,399.9	4,942,262	1.384%	Ln 21 x Ln 24
32 Peak Hour Increment Dist-Elev - Mcl-miles/Day	0.0	914,991	0.000%	[Ln 21 - Ln 20] x Ln 24
33 Suburban Equivalent Meters	315.0	70,900	0.444%	Equivalent 5/8" meters
34 Suburban Outreach - Mcl/Day	522.7	43,047	1.214%	Ln 25
35 Suburban Wholesale BUDGET - \$	3,833,700	292,945,300	1.309%	Ln 12
<b>CTA Summary by Major Category</b>				
36 CTA Commodity		1.283%	481,400	
37 CTA Max Day		1.217%	1,788,800	
38 CTA Peak Hour		1.104%	1,552,800	
39 CTA Total Demand		1.161%	3,321,500	
40 TOTAL CTA SHARE		1.173%	3,802,900	

\*Effective July 1, 2016

**Charter Township of Plymouth**  
 ~ Comprehensive Fee Schedule ~  
 Effective ~~May 13, 2014, Aug. 19, 2015,~~ **July 1, 2016**



**WATER AND SEWER SYSTEM**

**WATER RATES**

**Consumption Rate**

Consumption rate shall be ~~\$3.78, 98, 55~~ per 1,000 gallons.

**Service Charge**

Quarterly and monthly service charge shall be assessed based on meter size.

Meter Size	Quarterly Service Charge	Monthly Service Charge
3/4" x 5/8"	\$5.40 <del>4.00</del>	\$1.80
3/4"	\$5.40 <del>3.00</del>	\$1.80
1"	\$5.40 <del>4.20</del>	\$1.80
1 1/4"	\$10.50 <del>6.00</del>	\$3.50
1 1/2"	\$11.25 <del>9.00</del>	\$3.75
2"	\$12.00	\$4.00
3"	\$24.00	\$8.00
4"	\$30.00 <del>27.00</del>	\$10.00
6"	\$36.00	\$12.00
8"	\$54.00 <del>55.00</del>	\$18.00
10"	\$72.00	\$24.00

**Minimum Water Rate**

Minimum Rates shall be charged in addition to the appropriate Service Charge and Capital Charge.

Meter Size	Meter Quarterly Rate	Minimum Gallonage Charged	Minimum Monthly Rate	Minimum Gallonage Charged
3/4" x 5/8"	<del>\$18.90 19.90</del> 17.75	5,000	<del>\$7.56 7.96</del> 7.40	2,000
3/4"	<del>\$22.68 23.88</del> 21.30	6,000	<del>\$11.34 11.94</del> 10.65	3,000
1"	<del>\$37.80 39.80</del> 35.50	10,000	<del>\$15.12 15.92</del> 14.20	4,000
1 1/4"	<del>56.70 59.70</del> 53.25	15,000	<del>\$22.68 23.88</del> 21.30	6,000

**Charter Township of Plymouth**  
 ~ Comprehensive Fee Schedule ~  
 Effective ~~May 13, 2014, Aug. 19, 2015,~~ **July 1, 2016**



	<del>56.70</del> <del>59.70</del>		<del>\$22.68</del> <del>23.88</del>	
1 ½"	<del>53.25</del>	15,000	21.30	6,000
	<del>56.70</del> <del>59.70</del>		<del>\$22.68</del> <del>23.88</del>	
2"	<del>53.25</del>	15,000	21.30	6,000
	<del>56.70</del> <del>59.70</del>		<del>\$22.68</del> <del>23.88</del>	
3"	<del>53.25</del>	15,000	21.30	6,000
	<del>\$75.60</del> <del>79.60</del>		<del>\$30.24</del> <del>31.84</del>	
4"	<del>71.00</del>	20,000	28.40	8,000
	<del>\$75.60</del> <del>79.60</del>		<del>\$30.24</del> <del>31.84</del>	
6"	<del>71.00</del>	20,000	28.40	8,000
	<del>\$75.60</del> <del>79.60</del>		<del>\$30.24</del> <del>31.84</del>	
8"	<del>71.00</del>	20,000	28.40	8,000
	<del>\$75.60</del> <del>79.60</del>		<del>\$30.24</del> <del>31.84</del>	
10"	<del>71.00</del>	20,000	28.40	8,000

**Water Tap Charge**

Water Tap charges includes the total cost of installation of water service, including labor, materials, inspection fee and meter. It is determined by the road width of the property address requesting the service. The work is performed by the Township, and relates to the following size of service.

Size of Service	Size of Meter	0 – 60'	61' – 86'	87' – 120'	121' – 204'
¾"	5/8"	\$564.00	\$756.00	\$1,020.00	\$1,620.00
1"	1"	\$750.00	\$960.00	\$1,260.00	\$1,830.00

**Water Benefit Charge**

Water Benefit Charges shall consist of two parts:

- (1) Use Factor Fee  
 \$2,400.00 per unit, determined by the Use Factor Schedule.
- (2) Water Trunk and Transmission Fee

Service Size	Amount
¾"	\$250.00
1"	\$420.00
1 ½"	\$840.00
2"	\$1,680.00
3"	\$3,360.00
4"	\$6,720.00
6"	\$13,440.00

**Charter Township of Plymouth**  
 ~ Comprehensive Fee Schedule ~  
 Effective ~~May 13, 2014, Aug. 19, 2015,~~ **July 1, 2016**



**Fire Line Detector Check Charge**

The detector check meter is set by the Township Water Department. The following meter sizes are required for the stated fire line size:

Fire Line Size	Detector Check Meter Size	Meter Cost
4"	3/4" x 5/8"	Actual cost + 20%
6"	3/4" x 5/8"	Actual cost + 20%
8"	1"	Actual cost + 20%
10"	1 1/2"	Actual cost + 20%

**Capital Charge and Special Rate**

Capital Charges shall be assessed based on the water service size.

Meter Size	Annual Charge
5/8"	\$62.74
3/4"	\$94.11
1"	\$156.85
1 1/4"	\$235.28
1 1/2"	\$313.70
2"	\$501.93
3"	\$1,305.01
4"	\$2,258.67
6"	\$4,843.60
8"	\$7,842.62
10"	\$12,391.34

**Construction Water Charge**

Water on a temporary basis during construction is based on service size. The Construction Water Permit is valid for a period of six (6) months.

Service Size	Amount
3/4"	\$135.00 <del>135.00</del>
1"	\$270.00 <del>270.00</del>
1 1/2"	\$405.00 <del>405.00</del>
2"	\$540.00 <del>540.00</del>
3"	\$810.00
4"	\$1,080.00
6"	\$2,160.00
8"	\$4,320.00



**Charter Township of Plymouth**  
 ~ Comprehensive Fee Schedule ~  
 Effective ~~May 13, 2014, Aug. 19, 2015,~~ **July 1, 2016**



**Other Charges**

Charge	Amount
Hydrant Use (water through hydrant)	\$9.95 <del>8.95</del> / 1,000 gallons
Hydrant Meter Deposit:	
¾"	\$150.00
1"	\$200.00
1 ½"	\$400.00
2"	\$600.00
2 ½"	\$800.00
Charge	Amount
Hydrant Permit	\$100.00 / month
Hydrant Wrench Deposit	\$20.00
Inspection of Disconnects (done by others)	\$100.00 flat rate (regular hours)
Inspection of Water Tap (regular hours)	\$100.00 flat rate (regardless of size)
Inspection of Sewer Tap (regular hours)	\$100.00 flat rate (regardless of size)
Overtime hours	\$150.00 flat rate (regardless of size)
Turn On / Off (regular hours)	\$50.00
Turn On / Off (overtime hours)	\$100.00
Water Cross Connection Control Inspection	\$250.00
Water Disconnect at Main	Time and Materials
Sewer Lead Disconnect	Time and Materials

**Charter Township of Plymouth**  
 ~ Comprehensive Fee Schedule ~  
 Effective ~~May 13, 2014, Aug. 19, 2015,~~ **July 1, 2016**



**SEWER SYSTEM RATES**

**Sewer Disposal Use Rates**

The Sewage Disposal Rate shall be ~~\$5.67, 5.97,~~ 5.50 per 1,000 based on gallons of metered water.

**Minimum Sewage Rates**

Meter Size	Meter Quarterly Rates	Minimum Gallonage Charged	Minimum Monthly Rates	Minimum Gallonage Charged
¾" x 5/8"	<del>\$28.35</del> <b>29.85</b>	5,000	<del>\$11.34</del> <b>11.94</b>	2,000
	<del>28.75</del>		<del>11.50</del>	
¾"	<del>\$34.02</del> <b>35.82</b>	6,000	<del>\$17.01</del> <b>17.94</b>	3,000
	<del>34.50</del>		<del>17.25</del>	
1"	<del>\$56.70</del> <b>59.70</b>	10,000	<del>\$22.68</del> <b>23.88</b>	4,000
	<del>57.50</del>		<del>23.00</del>	
1 ¼"	<del>\$85.05</del> <b>89.55</b>	15,000	<del>\$34.02</del> <b>35.82</b>	6,000
	<del>86.25</del>		<del>34.50</del>	
1 ½"	<del>\$85.05</del> <b>89.55</b>	15,000	<del>\$34.02</del> <b>35.82</b>	6,000
	<del>86.25</del>		<del>34.50</del>	
2"	<del>\$85.05</del> <b>89.55</b>	15,000	<del>\$34.02</del> <b>35.82</b>	6,000
	<del>86.25</del>		<del>34.50</del>	
3"	<del>\$85.05</del> <b>89.55</b>	15,000	<del>\$34.02</del> <b>35.82</b>	6,000
	<del>86.25</del>		<del>34.50</del>	
4"	<del>\$113.40</del> <b>119.40</b>	20,000	<del>\$45.36</del> <b>47.76</b>	8,000
	<del>115.00</del>		<del>46.00</del>	
6"	<del>\$113.40</del> <b>119.40</b>	20,000	<del>\$45.36</del> <b>47.76</b>	8,000
	<del>115.00</del>		<del>46.00</del>	
8"	<del>\$113.40</del> <b>119.40</b>	20,000	<del>\$45.36</del> <b>47.76</b>	8,000
	<del>115.00</del>		<del>46.00</del>	
10"	<del>\$113.40</del> <b>119.40</b>	20,000	<del>\$45.36</del> <b>47.76</b>	8,000
	<del>115.00</del>		<del>46.00</del>	

**Charter Township of Plymouth**  
 ~ Comprehensive Fee Schedule ~  
 Effective ~~May 13, 2014, Aug. 19, 2015,~~ **July 1, 2016**



**Single Residences Unmetered Water**

Single residences having an unmetered water supply, the rate shall be ~~\$597.00 508.00~~ per year, billed at the rate of ~~\$149.00 127.00~~ quarterly.

Each trailer in a trailer court having an unmetered water supply, the rate shall be ~~\$597.00 508.00~~ per year, billed at the rate of ~~\$149.00 127.00~~ quarterly.

**Special Rates**

The Special Rates will depend on the Sewer Use Regulations including all changes of the Waste Control Division as prepared by the Board of Wayne County Road Commissioners and the Wayne County Board of Public Works and will be a minimum of those charged by Wayne County plus 50% overhead.

**Sewer Benefit Charges**

Sewer Benefit Charges shall consist of two parts:

(1) Use Factor Fee  
 \$5,900.00 per unit, determined by the Use Factor Schedule.

(2) Sewer Trunk and Transmission Fee

Service Size	Amount
¾"	\$250.00
1"	\$420.00
1 ½"	\$840.00
2"	\$1,680.00
3"	\$3,360.00
4"	\$6,720.00
6"	\$13,440.00



**Charter Township of Plymouth**  
 ~ Comprehensive Fee Schedule ~  
 Effective ~~May 13, 2014, Aug. 19, 2015,~~ **July 1, 2016**



**INDUSTRIAL WASTE CONTROL (I.W.C.) CHARGE**

The I.W.C. surcharge shall be applied as follows:

Meter Size	Monthly Charge
5/8"	\$10.15
3/4"	\$15.23
1"	\$25.38
1 1/2"	\$55.84
2"	\$81.22
3"	\$147.20
4"	\$203.04
6"	\$304.56
8"	\$507.60
10"	\$710.64
12"	\$812.15
16"	\$1,218.23
18"	\$1,421.27
24"	\$1,827.35

**SEWER CONNECTION RATES**

**Single-family residence**

Single-family residence charge will be \$275.00.

**Other establishments**

Other establishments shall be based on street right-of-way width.

Street Right-of-Way	Connection Fee
60' or less	\$300.00
61' – 86'	\$420.00
87' – 120'	\$600.00
121' plus	\$1,000.00

**Charter Township of Plymouth**  
 ~ Comprehensive Fee Schedule ~  
 Effective ~~May 13, 2014, Aug. 19, 2015,~~ **July 1, 2016**



***ENFORCEMENT***

**Lien on premises**

Any charges delinquent for six months or more shall have an administrative fee of 35% of the delinquent amount.

When a tenant is responsible for the payment of any charges and the Township Board is so notified in writing. No further service shall be rendered to such premises until a cash deposit in the sum of not less than \$500.00 shall be made as security for the payment of such charges.

***INDUSTRIAL SURVEILLANCE PERMIT FEE***

**Annual Industrial Surveillance Permit Fee**

Permit fees for Class D shall be determined as follows:  
 Annual fee = Graduated Volume Base fee X Survey Factor.

Average Wastewater Discharge Volume Based on Days when Discharge Occurs	Volume Base Fee
0 – 50, 000	\$75.00
50,000 – 100,000	\$225.00
100,000 – 250,000	\$375.00
250,000 – 1,000,000	\$525.00
1,000,000 plus	\$750.00

**The Survey Factor**

The survey factor shall not be less than 1.0 or more than 10.0.



## CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

**MEETING DATE:** June 14, 2016

**ITEM: SAW Grant – Professional Services Procurement**

**PRESENTER:** Patrick J. Fellrath, P.E., Director of Public Services

**OTHER INDIVIDUALS IN ATTENDANCE:** Scott Adamowski, P.E., GHD Inc.  
Matt Lamb, P.E., GHD Inc.

**BACKGROUND:**

The Township applied for a SAW Grant from MDEQ in October 2013 (see Attachment 1 Board Resolution). In November 2015 the grant was awarded to the Township (see Attachment 2 Grant Agreement). The SAW Grant is \$2,000,000 for establishing a sanitary wastewater asset management plan.

The Township issued a Request for Qualification (RFQ) for professional engineering services to assist in executing the grant. The RFQ was advertised on the Michigan Inter-governmental Trade Network (MITN) and four proposals were received.

Based on review of the proposals, candidate interviews and follow-up pricing information, a recommendation for contract award is presented to the Board for consideration.

**ACTION REQUESTED:** Approve

**BUDGET/ACCOUNT NUMBER:** Water and Sewer Fund (Local Match)

**MODEL RESOLUTION: I move to approve the selection of the GHD-Wade Trim team to provide professional engineering services for executing the Township's SAW Grant; and authorize the Township Supervisor and Clerk to execute an agreement based on GHD-Wade Trim's proposal contingent upon legal review and approval by the Township Attorney.**

**ATTACHMENTS:**

1. Board Resolution dated October 22, 2013
2. SAW Grant Agreement
3. GHD-Wade Trim Letter dated May 13, 2016
4. SAW Grant Application – Pricing
5. GHD-Wade Trim Proposal dated December 17, 2015
6. GHD-Wade Trim Additional Information dated January 19, 2016

Charter Township of Plymouth  
County of Wayne

Resolution Authorizing the SAW Grant Agreement  
Resolution 2013-10-22-41

Minutes of the regular meeting of the Board of Trustees of the Charter Township of Plymouth County of Wayne, State of Michigan, (the "Municipality") held on October 22, 2013.

PRESENT: Arnold, Conzelman, Curmi, Doroshewitz, Edwards, Reaume

ABSENT: Kelly

Member Edwards offered and moved the adoption of the following resolution, seconded by Member Arnold.

WHEREAS, Part 52 (strategic water quality initiatives) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended ("Part 52"), provides at MCL 324.5204e that the Michigan Finance Authority (the "MFA") in consultation with the Michigan Department of Environmental Quality (the "DEQ") shall establish a strategic water quality initiatives grant program; and

WHEREAS, in accordance with the provisions of 2012 PA 511, which provides grants to municipalities for sewage collection and treatment systems or storm water or nonpoint source pollution control; and

WHEREAS, in accordance with the provisions of 1985 PA 227, as amended, Part 52, and other applicable provisions of law, the MFA, the DEQ, and the Municipality that is a grant recipient shall enter into a grant agreement (the "SAW Grant Agreement") that requires the Municipality to repay the grant under certain conditions as set forth in MCL 324.5204e, as amended; and

WHEREAS, the Municipality does hereby determine it necessary to (select one or more)  
 establish an asset management plan,  establish a stormwater management plan,  establish a plan for wastewater/stormwater,  establish a design of wastewater/stormwater,  pursue innovative technology, or  initiate construction activities (up to \$500,000 for disadvantaged community).

WHEREAS, it is the determination of the Municipality that at this time, a grant in the aggregate principal amount not to exceed \$2,000,000.00 ("Grant") be requested from the MFA and the DEQ to pay for the above-mentioned undertaking(s); and

THE FORM WILL NOT BE ACCEPTED IF IT HAS BEEN EDITED, ALTERED, RETYPED, OR CONVERTED TO ANY OTHER FORMAT

WHEREAS, the Municipality shall obtain this Grant by entering into the SAW Grant Agreement with the MFA and the DEQ.

NOW, THEREFORE, BE IT RESOLVED THAT:

1. Supervisor, Charter Township of Plymouth (*title of the designee's position*), a position currently held by Richard M. Reaume (*name of the designee*), is designated as the Authorized Representative for purposes of the SAW Grant Agreement.
2. The proposed form of the SAW Grant Agreement between the Municipality, the MFA and DEQ (attached Sample Grant Agreement) is hereby approved and the Authorized Representative is authorized and directed to execute the SAW Grant Agreement with such revisions as are permitted by law and agreed to by the Authorized Representative.
3. The Municipality shall repay the Grant, within 90 days of being informed to do so, with interest at a rate not to exceed 8 percent per year, to the Authority if the Municipality is unable to, or decides not to, proceed with constructing the project or implementing the asset management program for which the funding is provided within 3 years of the Grant award.
4. The Grant, if repayable, shall be a first budget obligation of the Municipality, and the Municipality is required, if necessary, to levy ad valorem taxes on all taxable property in the Municipality for the payment thereof, subject to applicable constitutional, statutory and Municipality tax rate limitations.
5. The Municipality shall not invest, reinvest or accumulate any moneys deemed to be Grant funds, nor shall it use Grant funds for the general local government administration activities or activities performed by municipal employees that are unrelated to the project.
6. The Authorized Representative is hereby jointly or severally authorized to take any actions necessary to comply with the requirements of the MFA and the DEQ in connection with the issuance of the Grant. The Authorized Representative is hereby jointly or severally authorized to execute and deliver such other contracts, certificates, documents, instruments, applications and other papers as may be required by the MFA or the DEQ or as may be otherwise necessary to effect the approval and delivery of the Grant.
7. The Municipality acknowledges that the SAW Grant Agreement is a contract between the Municipality, the MFA and the DEQ.
8. All resolutions and parts of resolutions insofar as they conflict with the provisions of this Resolution are rescinded.

YEAS: All

NAYS: None

THE FORM WILL NOT BE ACCEPTED IF IT HAS BEEN EDITED, ALTERED, RETYPED, OR CONVERTED TO ANY OTHER FORMAT.



RESOLUTION DECLARED ADOPTED

I hereby certify that the foregoing is a true and complete copy of a resolution adopted by the Board of Trustees of the Charter Township of Plymouth, County of Wayne, said meeting was conducted and public notice of said meeting was given pursuant to and in full compliance with the Open Meetings Act, being Act 267, Public Acts of Michigan, 1976, and that the minutes of said meeting were kept and will be or have been made available as required by said Act.

  
Nancy C. Conzelman

Charter Township of Plymouth, Clerk,  
State of Michigan, County of Wayne



Michigan Finance Authority

Stormwater, Asset Management, and Wastewater (SAW)
GRANT AGREEMENT

This Grant Agreement ("Agreement") is made as of November 24, 2015, among the Michigan Department of Environmental Quality, Office of Drinking Water and Municipal Assistance (the "DEQ"), the Michigan Finance Authority (the "Authority") (the DEQ and the Authority are, collectively, the "State") and the Charter Township of Plymouth, County of Livingston ("Grantee") in consideration for providing grant assistance to the Grantee.

The purpose of this Agreement is to provide funding for the project named below. The State is authorized to provide grant assistance pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Legislative appropriation of funds for grant disclosure is set forth in 2013 Public Act 59.

The Grantee shall be required to repay the grant made under this Agreement (the "Grant"), within 90 days of being informed by the State to do so, under certain conditions, as set forth in Section XVIII. Program Specific Requirements: SAW Grant.

Award of a Grant under this Agreement and completion of the activities identified in Exhibit A does not guarantee loan assistance from the State Revolving Fund, Strategic Water Quality Initiatives Fund, or Stormwater, Asset Management or Wastewater.

GRANTEE INFORMATION:

Shannon Price, Supervisor
Name/Title of Authorized Representative
9955 Haggerty Rd.
Address
Plymouth, MI 48170
Address
734-354-3201
Telephone number

GRANT INFORMATION:

Project Name: WW Asset Mgt Plan
Project #: 1666-01
Amount of Grant: \$ 2,000,000
Amount of Match \$ 444,444
Project \$ 2,444,444 (grant plus match)
Start Date: 1/1/2013 End Date: 10/1/2018

DEQ REPRESENTATIVE:

Sonya T. Butler, Chief
Name/Title
525 West Allegan St., PO Box 30473
Address
Lansing, MI 48909-7973
Address
(517) 373-2161
Telephone number
Butlers2@michigan.gov
E-mail address

AUTHORITY REPRESENTATIVE:

Mary G. Martin, Executive Director, MFA
Name/Title
430 W. Allegan St., Austin Building
Address
Lansing, MI 48922
Address
(517) 335-0994
Telephone number
treas\_bondfinance@michigan.gov
E-mail

The individuals signing below certify by their signatures that they are authorized to sign this Grant Agreement on behalf of their respective parties, and that the parties will fulfill the terms of this Agreement, including the attached Exhibit A, and use this Grant only as set forth in this Agreement.

GRANTEE

Shannon Price  
Signature of Grantee

November 24, 2015  
Date

Shannon B. Price Supervisor  
Name and title (typed or printed)

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

Debra T. Butler  
Its Authorized Officer

November 24, 2015  
Date

MICHIGAN FINANCE AUTHORITY

Mary H. Martin  
Its Authorized Officer

November 24, 2015  
Date

### I. PROJECT SCOPE

This Agreement shall be in addition to any other contractual undertaking by the Grantee contained in the Resolution authorizing the Grant (the "Resolution").

This Agreement, including its exhibit(s), constitutes the entire agreement between the DEQ, the Authority, and the Grantee.

(A) The scope of this Grant is limited to the activities specified in Exhibit A (the "Project"), and such activities as are authorized by the State under this Agreement. Any change in project scope requires prior written approval in accordance with Section III, Changes, in this Agreement.

(B) By acceptance of this Agreement, the Grantee commits to complete the Project identified in Exhibit A within the time period allowed for in this Agreement and in accordance with the terms and conditions of this Agreement.

### II. AGREEMENT PERIOD

This Agreement shall take effect on the date that it has been signed by all parties (the "Effective Date"). The Grantee shall complete the Project in accordance with all the terms and conditions specified in this Agreement no later than the End Date shown on page one. **Only costs incurred on or after January 2, 2013 and between the Start Date and the End Date shall be eligible for payment under this Grant.**

### III. CHANGES

Any decreases in the amount of the Grantee's compensation, significant changes to the Project, or extension of the End Date, shall be requested by the Grantee in writing, and approved in writing by the State in advance. The State reserves the right to deny requests for changes to the Agreement including its Exhibit A. No changes can be implemented without approval by the State.

October 6, 2015



#### **IV. GRANTEE PAYMENTS AND REPORTING REQUIREMENTS**

The Grantee shall meet the reporting requirements specified in Section XVIII of this Agreement.

#### **V. GRANTEE RESPONSIBILITIES**

(A) The Grantee agrees to abide by all local, state, and federal laws, rules, ordinances and regulations in the performance of this Grant.

(B) All local, state, and federal permits, if required, are the responsibility of the Grantee. Award of this Grant is not a guarantee of permit approval by the state.

(C) The Grantee shall be solely responsible to pay all taxes, if any, that arise from the Grantee's receipt of this Grant.

(D) The Grantee is responsible for the professional quality, technical accuracy, timely completion, and coordination of all designs, drawings, specifications, reports, and other services furnished by its subcontractors under this Agreement. The State will consider the Grantee to be the sole point of contact concerning contractual matters, including payment resulting from this Grant. The Grantee or its subcontractor shall, without additional grant award, correct or revise any errors, omissions, or other deficiencies in designs, drawings, specifications, reports, or other services.

(E) The DEQ's approval of drawings, designs, specifications, reports, and incidental work or materials furnished hereunder shall not in any way relieve the Grantee of responsibility for the technical adequacy of the work. The DEQ's review, approval, acceptance, or payment for any of the services shall not be construed as a waiver of any rights under this Agreement or of any cause of action arising out of the performance of this Agreement.

(F) The Grantee acknowledges that it is a crime to knowingly and willfully file false information with the State for the purpose of obtaining this Agreement or any payment under the Agreement, and that any such filing may subject the Grantee, its agents, and/or employees to criminal and civil prosecution and/or termination of the Grant.

#### **VI. ASSIGNABILITY**

The Grantee shall not assign this Agreement or assign or delegate any of its duties or obligations under this Agreement to any other party without the prior written consent of the State. The State does not assume responsibility regarding the contractual relationships between the Grantee and any subcontractor.

#### **VII. NON-DISCRIMINATION**

The Grantee shall comply with the Elliott Larsen Civil Rights Act, 1976 PA 453, as amended, MCL 37.2101 *et seq*, the Persons with Disabilities Civil Rights Act, 1976 PA 220, as amended, MCL 37.1101 *et seq*, and all other federal, state, and local fair employment practices and equal opportunity laws and covenants that it shall not discriminate against any employee or applicant for employment, to be employed in the performance of this Agreement, with respect to his or her hire, tenure, terms, conditions, or privileges of employment, or any matter directly or indirectly related to employment, because of his or her race, religion, color, national origin, age, sex, height, weight, marital status, or physical or mental disability that is unrelated to the individual's ability to perform the duties of a particular job or position. The Grantee agrees to include in every subcontract entered into for the performance of this Agreement this covenant not to discriminate in employment. A breach of this covenant is a material breach of this Agreement.

October 6, 2015

### **VIII. UNFAIR LABOR PRACTICES**

The Grantee shall comply with the Employers Engaging in Unfair Labor Practices Act, 1980 PA 278, as amended, MCL 423.321 *et seq.*

### **IX. LIABILITY**

(A) The Grantee, not the State, is responsible for all liabilities as a result of claims, judgments, or costs arising out of activities to be carried out by the Grantee under this Agreement, if the liability is caused by the Grantee, any subcontractor, or anyone employed by the Grantee.

(B) All liability as a result of claims, demands, costs, or judgments arising out of activities to be carried out by the State in the performance of this Agreement is the responsibility of the State and not the responsibility of the Grantee if the liability is materially caused by any State employee or agent.

(C) In the event that liability arises as a result of activities conducted jointly by the Grantee and the State in fulfillment of their responsibilities under this Agreement, such liability is held by the Grantee and the State in relation to each party's responsibilities under these joint activities.

(D) Nothing in this Agreement should be construed as a waiver of any governmental immunity by the Grantee, the State, its agencies, or their employees as provided by statute or court decisions.

### **X. CONFLICT OF INTEREST**

No government employee or member of the legislative, judicial, or executive branches or member of the Grantee's governing body, its employees, partner, agencies or their families shall have benefit financially from any part of this Agreement.

### **XI. AUDIT AND ACCESS TO RECORDS**

See Section XVIII (C).

### **XII. INSURANCE**

(A) The Grantee shall maintain insurance or self insurance that will protect it from claims that may arise from the Grantee's actions under this Agreement or from the actions of others for whom the Grantee may be held liable.

(B) The Grantee must comply with applicant workers' compensation laws while engaging in activities authorized under this Agreement.

### **XIII. OTHER SOURCES OF FUNDING**

The Grantee guarantees that any claims for reimbursement made to the State under this Agreement shall not be financed by any source other than the State under the terms of this Agreement. If funding is received through any other source, the Grantee agrees to delete from Grantee's billings or to immediately refund to the State, the total amount representing such duplication of funding.

### **XIV. COMPENSATION**

(A) A breakdown of Project costs covered under this Agreement is identified in Exhibit A. The State will pay the Grantee a total amount not to exceed the amount on page one of this Agreement, in accordance with Exhibit A, and only for expenses incurred. All other costs over and above the Grant amount, necessary to complete the Project, are the sole responsibility of the Grantee.

October 6, 2015

(B) The Grantee is committed to the match amount on page one of this Agreement, in accordance with Exhibit A. The Grantee shall expend all local match committed to the Project by the End Date of this Agreement.

(C) The State will approve payment requests after approval of reports and related documentation as required under this Agreement.

(D) The State reserves the right to request additional information necessary to substantiate payment requests.

#### **XV. CLOSEOUT**

(A) A determination of Project completion shall be made by the DEQ after the Grantee has met any match obligations and satisfactorily completed the activities and provided products and deliverables described in Exhibit A.

(B) Upon issuance of final payment from the State, the Grantee releases the State of all claims against the State arising under this Agreement. Unless otherwise provided in this Agreement or by State law, final payment under this Agreement shall not constitute a waiver of the State's claims against the Grantee.

(C) The Grantee shall immediately refund to the State any payments or funds in excess of the costs allowed by this Agreement.

#### **XVI. CANCELLATION**

This Agreement may be canceled by the State, upon 30 days written notice, due to Executive Order, budgetary reduction, or other lack of funding upon request by Grantee or upon mutual agreement by the State and Grantee. The State reserves the right to provide just and equitable compensation to the Grantee for all satisfactory work completed under this Agreement.

#### **XVII. TERMINATION**

(A) This Agreement may also be terminated by the State for any of the following reasons upon 30 days written notice to the Grantee:

(1) If the Grantee fails to comply with the terms and conditions of the Agreement or with the requirements of the authorizing legislation cited on page 1 or the rules promulgated thereunder, or with other applicable law or rules.

(2) If the Grantee knowingly and willfully presents false information to the State for the purpose of obtaining this Agreement or any payment under this Agreement.

(3) If the State finds that the Grantee, or any of the Grantee's agents or representatives, offered or gave gratuities, favors, or gifts of monetary value to any official, employee, or agent of the State in an attempt to secure a subcontract or favorable treatment in awarding, amending, or making any determinations related to the performance of this Agreement.

(4) During the 30-day written notice period, the State shall also withhold payment for any findings under subparagraphs 1 through 3, above.

(5) If the Grantee or any subcontractor, manufacturer, or supplier of the Grantee appears in the register of persons engaging in unfair labor practices that is compiled by the Michigan Department of Licensing and Regulatory Affairs or its successor.

(B) The State may immediately terminate this Agreement without further liability if the Grantee, or any agent of

*October 6, 2015*

the Grantee, or any agent of any subagreement, is:

(1) Convicted of a criminal offense incident to the application for or performance of a state, public, or private contract or subcontract;

(2) Convicted of a criminal offense, including but not limited to any of the following: embezzlement, theft, forgery, bribery, falsification or destruction of records, receiving stolen property, or attempting to influence a public employee to breach the ethical conduct standards for State of Michigan employees;

(3) Convicted under state or federal antitrust statutes;

(4) Convicted of any other criminal offense which, in the sole discretion of the State, reflects on the Grantee's business integrity; or

(C) If a grant is terminated, the State reserves the right to require the Grantee to repay all or a portion of funds received under this Agreement.

### **XVIII. PROGRAM-SPECIFIC REQUIREMENTS: SAW REPAYABLE GRANT**

(A) General Representations. The Grantee represents and warrants to, and agrees with, the Authority and DEQ, as of the date hereof as follows:

(1) Grant funds shall be expended only to cover costs for the development of an Asset Management Plan, Stormwater Management Plan, innovative wastewater or stormwater technology, construction costs for disadvantaged communities, or for planning, design and user charge development.

(2) Grant funds used for administrative activities or activities performed by municipal employees shall be limited to work that is directly related to the Project and is conducted by employees of the Grantee.

(3) The Grantee has full legal right, power and authority to execute this Agreement, and to consummate all transactions contemplated by this Agreement, the Resolution, and any and all other agreements relating thereto. The Grantee has duly authorized and approved the execution and delivery of this Agreement, the performance by the Grantee of its obligations contained in this Agreement, and this Agreement is a valid, legally binding action of the Grantee, enforceable in accordance with the terms thereof except as enforceability may be limited by bankruptcy, insolvency, reorganization, moratorium and other similar laws affecting the rights of creditors generally, and by principles of equity if equitable remedies are sought.

(4) The Resolution has been duly adopted by the Grantee, acting through its executive(s) or governing body, is in full force and effect as of the date hereof, and is a valid, legally binding action of the Grantee, enforceable in accordance with the terms thereof except as enforceability may be limited by bankruptcy, insolvency, reorganization, moratorium and other similar laws affecting the rights of creditors generally, and by principles of equity if equitable remedies are sought.

(5) The execution and delivery of this Agreement by the Grantee, and the fulfillment of the terms and conditions of, and the carrying out of the transactions contemplated by the Resolution and this Agreement do not and will not conflict with or constitute on the part of the Grantee a breach of, or a default under any existing law (including, without limitation, the Michigan Constitution), any court or administrative regulation, decree or order or any agreement, indenture, mortgage, obligation, lease or other instrument to which the Grantee is subject or by which it is bound and which breach or default would materially affect the validity or binding effect of the Grant, or result in a default or lien on any assets of the Grantee. No event has occurred or is continuing which with the lapse of time or the giving of notice, or both, would constitute a default by the Grantee under the Resolution or this Agreement.

(6) No consent or approval of, or registration or declaration with, or permit from, any federal, state or other governmental body or instrumentality, is or was required in connection with enactment by the Grantee of the

October 6, 2015

Resolution, or execution and delivery by the Grantee of this Agreement which has not already been obtained, nor is any further election or referendum of voters required in connection therewith which has not already been held and certified and all applicable referendum periods have expired.

(7) Proceeds of the Grant will be applied (i) to the financing of the Project or a portion thereof as set forth in the Resolution and Exhibit A or (ii) to reimburse the Grantee for a portion of the cost of the Project. The Grantee will expend the proceeds of each disbursement of the Grant for the governmental purpose for which the Grant was issued.

(8) The attached Exhibit A contains a summary of the estimated cost of the Project, which the Grantee certifies is a reasonable and accurate estimate.

(9) The Grantee reasonably expects (i) to fulfill all conditions set forth in this Agreement to receive and to keep the Grant, and (ii) that no event will occur as set forth in this Agreement which will require the Grantee to repay the Grant.

(B) Repayment of Grant. The Grantee shall repay the Grant, within 90 days of being informed to do so, with interest calculated from the date Grant funds are first drawn at a rate not to exceed 8% per year, to be determined by the Authority, to the Authority for deposit into the SWQIF.

“(a) A grant recipient (shall) proceed with a project for which grant funding is provided within 3 years after the department approves the grant (executed grant agreement). For asset management programs related to sewage collection and treatment systems, this includes significant progress, as determined by the department, toward achieving the funding structure necessary to implement the program.

(b) The grant recipient (shall) repay the grant, within 90 days of being informed to do so, with interest at a rate not to exceed 8 percent per year, to the Authority for deposit into the fund if the applicant is unable to, or decides not to, proceed with a construction project or begin implementation of an asset management program for which grant funding is provided.”

SAW grant recipients for wastewater system asset management plans are required to make significant progress on the funding structure. Significant progress is defined as a 5-year plan to eliminate the gap with a minimum initial rate increase to close at least 10 percent of the funding gap. The first rate increase must be implemented within three years of the executed grant. The applicant will need to certify that all grant activities have been completed at the end of three years. Asset management plans for stormwater systems are to be implemented. Stormwater management grant recipients must develop a stormwater management plan. Innovative project grant recipients must proceed with full implementation or certify that the project is not financially or technically feasible.

(C) Covenants and Certifications.

(1) The Grantee has the legal, managerial, institutional, and financial capability to plan, design, and build the Project, or cause the Project to be built, and cause all facilities eventually constructed to be adequately operated.

(2) The Grantee certifies that no undisclosed fact or event, or pending litigation, will materially or adversely affect the Project, the prospects for its completion, or the Grantee's ability to make timely repayments of the grant if any of the two (2) conditions identified under Section XVIII(B) occur.

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(5) The Grantee agrees that all municipal contracts related to the Project will provide that the contractor and any subcontractor may be subject to a financial audit and must comply with GAAP and GAGAS.

(6) The Grantee agrees to provide any necessary written authorizations to the DEQ and the Authority for the purpose of examining, reviewing, or auditing the financial records of the Project. The applicant also agrees to require similar authorizations from all contractors, consultants, property owners or agents with which the applicant negotiates an agreement.

(7) The Grantee agrees that all pertinent records shall be retained and available to the DEQ and the Authority for a minimum of three years after satisfactory completion of the Project and final payment. If litigation, a claim, an appeal, or an audit is begun before the end of the three-year period, records shall be retained and available until the three years have passed or until the action is completed and resolved, whichever is longer.

(8) The Grantee agrees to ensure that planning and design activities of the Project are conducted in compliance with the requirements of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, its Administrative Rules; and all applicable state and federal laws, executive orders, regulations, policies, and procedures.

(9) The Grantee agrees that the Project shall proceed in a timely fashion and will exercise its best efforts to satisfy the program requirements as identified under Section XVIII(B) within three years of award of the SAW Grant from the Strategic Water Quality Initiatives Fund in accordance with Section 5204(e) of the Natural Resources and Environmental Protection Act 1994, PA 451, as amended.

(10) The Grantee acknowledges that acceptance of a wastewater asset management grant will subsequently affect future NPDES permits to include asset management language as applicable.

(D) Grantee Reimbursements and Deliverables

The Grantee may request grant disbursements no more frequently than monthly, using the Disbursement Request Form provided by the DEQ. Upon receipt of a disbursement request, the DEQ will notify the Authority, which will in turn disburse grant funds equal to 75 percent, 90 percent, or 100 percent of eligible costs, whichever percentage is applicable, that have been adequately documented. The forms provided by the State will include instructions on their use and shall be submitted to the DEQ representative at the address on page 1. All required supporting documentation (invoices) for expenses must be included with the disbursement request form. The Grantee is responsible for the final submittal of all documents prepared under this Grant and included in the Project Scope identified in Exhibit A.

(E) Miscellaneous Provisions.

(1) Applicable Law and Nonassignability. This Agreement shall be governed by the laws of the State of Michigan.

(2) Severability. If any clause, provision or section of this Agreement be ruled invalid or unenforceable by any court of competent jurisdiction, the invalidity or unenforceability of such clause, provision or section shall not affect any of the remaining clauses, provisions or sections.

(3) Execution of Counterparts. This Agreement may be executed in several counterparts each of which shall be regarded as an original and all of which shall constitute one and the same document.

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**XIX. USE OF MATERIAL**

Unless otherwise specified in this Agreement, the Grantee may release information or material developed under this Agreement, provided it is acknowledged that the DEQ funded all or a portion of its development.

**XX. SUBCONTRACTS**

The State reserves the right to deny the use of any consultant, contractor, associate or other personnel to perform any portion of the project. The Grantee is solely responsible for all contractual activities performed under this Agreement. Further, the State will consider the Grantee to be the sole point of contact with regard to contractual matters, including payment of any and all charges resulting from the anticipated Grant. All subcontractors used by the Grantee in performing the project shall be subject to the provisions of this Agreement and shall be qualified to perform the duties required.

**XXI. ANTI-LOBBYING**

If all or a portion of this Agreement is funded with state funds, then the Grantee shall not use any of the grant funds awarded in this Agreement for the purpose of lobbying as defined in the State of Michigan's lobbying statute, MCL 4.415(2). "Lobbying" means communicating directly with an official of the executive branch of state government or an official in the legislative branch of state government for the purpose of influencing legislative or administrative action." The Grantee shall not use any of the grant funds awarded in this Agreement for the purpose of litigation against the State. Further, the Grantee shall require that language of this assurance be included in the award documents of all subawards at all tiers.

**XXII. IRAN SANCTIONS ACT**

By signing this Agreement, the Grantee is certifying that it is not an Iran linked business, and that its contractors are not Iran linked businesses as outlined in Michigan Compiled Law 129.312

**XXIII. DEBARMENT AND SUSPENSION**

By signing this Agreement, the Grantee certifies to the best of its knowledge and belief that it, its agents, and its subcontractors:

- (1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any federal department or the state.
- (2) Have not within a 3-year period preceding this Agreement been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (federal, state, or local) transaction or contract under a public transaction as defined in 45 CFR 1185; violation of federal or state antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property.
- (3) Are not presently indicted or otherwise criminally or civilly charged by a government entity (federal, state, or local) with commission of any of the offenses enumerated in subsection (2).
- (4) Have not within a 3-year period preceding this Agreement had one or more public transactions (federal, state, or local) terminated for cause or default.
- (5) Will comply with all applicable requirements of all other state or federal laws, executive orders, regulations, and policies governing this program.

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**SAW Grant Program**

**Exhibit A**

Grantee: Charter Township of Plymouth

Project Name: Wastewater Asset Management Plan

DEQ Approved Grant Amount: \$2,000,000 (Two Million Dollars)

Time Period for Eligible Costs: Start Date January 2013

End Date October 2018

Description of Approved Project Scope:

Preparation and completion of a wastewater asset management plan.

<b>DEQ Approved Project Costs</b>	
1. Project Planning Costs	\$0
2. Design Engineering Costs	\$0
3. User Charge System Development Costs	\$0
4. Wastewater Asset Management Plan Costs	\$2,444,444
5. Stormwater Asset Management Plan Costs	\$0
6. Stormwater Management Plan Costs	\$0
7. Innovative Wastewater and Stormwater Technology Costs	\$0
8. Disadvantaged Community Construction Costs	\$0
9. Eligible Cost Subtotal	\$2,444,444
10. LESS Local Match (if applicable)	\$444,444
11. Requested SAW Grant Amount (Line 9 minus Line 10)	\$2,000,000





## Michigan Finance Authority

### Stormwater, Asset Management, and Wastewater (SAW) GRANT AGREEMENT

This Grant Agreement ("Agreement") is made as of November 24, 2015, among the Michigan Department of Environmental Quality, Office of Drinking Water and Municipal Assistance (the "DEQ"), the Michigan Finance Authority (the "Authority") (the DEQ and the Authority are, collectively, the "State") and the **Charter Township of Plymouth, County of Livingston** ("Grantee") in consideration for providing grant assistance to the Grantee.

The purpose of this Agreement is to provide funding for the project named below. The State is authorized to provide grant assistance pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Legislative appropriation of funds for grant disclosure is set forth in 2013 Public Act 59.

**The Grantee shall be required to repay the grant made under this Agreement (the "Grant"), within 90 days of being informed by the State to do so, under certain conditions, as set forth in Section XVIII. Program Specific Requirements: SAW Grant.**

Award of a Grant under this Agreement and completion of the activities identified in Exhibit A does not guarantee loan assistance from the State Revolving Fund, Strategic Water Quality Initiatives Fund, or Stormwater, Asset Management or Wastewater.

#### GRANTEE INFORMATION:

Shannon Price, Supervisor  
Name/Title of Authorized Representative  
9955 Haggerty Rd.  
Address  
Plymouth, MI 48170  
Address  
734-354-3201  
Telephone number

#### GRANT INFORMATION:

Project Name: WW Asset Mgt Plan  
Project #: 1666-01  
Amount of Grant: \$ 2,000,000  
Amount of Match \$ 444,444  
Project \$ 2,444,444 (grant plus match)  
Start Date: 1/1/2013 End Date: 10/1/2018

#### DEQ REPRESENTATIVE:

Sonya T. Butler, Chief  
Name/Title  
525 West Allegan St., PO Box 30473  
Address  
Lansing, MI 48909-7973  
Address  
(517) 373-2161  
Telephone number  
Butlers2@michigan.gov  
E-mail address

#### AUTHORITY REPRESENTATIVE:

Mary G. Martin, Executive Director, MFA  
Name/Title  
430 W. Allegan St., Austin Building  
Address  
Lansing, MI 48922  
Address  
(517) 335-0994  
Telephone number  
treas\_bondfinance@michigan.gov  
E-mail

The individuals signing below certify by their signatures that they are authorized to sign this Grant Agreement on behalf of their respective parties, and that the parties will fulfill the terms of this Agreement, including the attached Exhibit A, and use this Grant only as set forth in this Agreement.

GRANTEE

Shannon Price  
Signature of Grantee

November 24, 2015  
Date

Shannon G. Price Supervisor  
Name and title (typed or printed)

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

Dwight T. Butler  
Its Authorized Officer

November 24, 2015  
Date

MICHIGAN FINANCE AUTHORITY

Mary H. Martin  
Its Authorized Officer

November 24, 2015  
Date

### I. PROJECT SCOPE

This Agreement shall be in addition to any other contractual undertaking by the Grantee contained in the Resolution authorizing the Grant (the "Resolution").

This Agreement, including its exhibit(s), constitutes the entire agreement between the DEQ, the Authority, and the Grantee.

(A) The scope of this Grant is limited to the activities specified in Exhibit A (the "Project"), and such activities as are authorized by the State under this Agreement. Any change in project scope requires prior written approval in accordance with Section III, Changes, in this Agreement.

(B) By acceptance of this Agreement, the Grantee commits to complete the Project identified in Exhibit A within the time period allowed for in this Agreement and in accordance with the terms and conditions of this Agreement.

### II. AGREEMENT PERIOD

This Agreement shall take effect on the date that it has been signed by all parties (the "Effective Date"). The Grantee shall complete the Project in accordance with all the terms and conditions specified in this Agreement no later than the End Date shown on page one. **Only costs incurred on or after January 2, 2013 and between the Start Date and the End Date shall be eligible for payment under this Grant.**

### III. CHANGES

Any decreases in the amount of the Grantee's compensation, significant changes to the Project, or extension of the End Date, shall be requested by the Grantee in writing, and approved in writing by the State in advance. The State reserves the right to deny requests for changes to the Agreement including its Exhibit A. No changes can be implemented without approval by the State.

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#### **IV. GRANTEE PAYMENTS AND REPORTING REQUIREMENTS**

The Grantee shall meet the reporting requirements specified in Section XVIII of this Agreement.

#### **V. GRANTEE RESPONSIBILITIES**

(A) The Grantee agrees to abide by all local, state, and federal laws, rules, ordinances and regulations in the performance of this Grant.

(B) All local, state, and federal permits, if required, are the responsibility of the Grantee. Award of this Grant is not a guarantee of permit approval by the state.

(C) The Grantee shall be solely responsible to pay all taxes, if any, that arise from the Grantee's receipt of this Grant.

(D) The Grantee is responsible for the professional quality, technical accuracy, timely completion, and coordination of all designs, drawings, specifications, reports, and other services furnished by its subcontractors under this Agreement. The State will consider the Grantee to be the sole point of contact concerning contractual matters, including payment resulting from this Grant. The Grantee or its subcontractor shall, without additional grant award, correct or revise any errors, omissions, or other deficiencies in designs, drawings, specifications, reports, or other services.

(E) The DEQ's approval of drawings, designs, specifications, reports, and incidental work or materials furnished hereunder shall not in any way relieve the Grantee of responsibility for the technical adequacy of the work. The DEQ's review, approval, acceptance, or payment for any of the services shall not be construed as a waiver of any rights under this Agreement or of any cause of action arising out of the performance of this Agreement.

(F) The Grantee acknowledges that it is a crime to knowingly and willfully file false information with the State for the purpose of obtaining this Agreement or any payment under the Agreement, and that any such filing may subject the Grantee, its agents, and/or employees to criminal and civil prosecution and/or termination of the Grant.

#### **VI. ASSIGNABILITY**

The Grantee shall not assign this Agreement or assign or delegate any of its duties or obligations under this Agreement to any other party without the prior written consent of the State. The State does not assume responsibility regarding the contractual relationships between the Grantee and any subcontractor.

#### **VII. NON-DISCRIMINATION**

The Grantee shall comply with the Elliott Larsen Civil Rights Act, 1976 PA 453, as amended, MCL 37.2101 *et seq*, the Persons with Disabilities Civil Rights Act, 1976 PA 220, as amended, MCL 37.1101 *et seq*, and all other federal, state, and local fair employment practices and equal opportunity laws and covenants that it shall not discriminate against any employee or applicant for employment, to be employed in the performance of this Agreement, with respect to his or her hire, tenure, terms, conditions, or privileges of employment, or any matter directly or indirectly related to employment, because of his or her race, religion, color, national origin, age, sex, height, weight, marital status, or physical or mental disability that is unrelated to the individual's ability to perform the duties of a particular job or position. The Grantee agrees to include in every subcontract entered into for the performance of this Agreement this covenant not to discriminate in employment. A breach of this covenant is a material breach of this Agreement.

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### **VIII. UNFAIR LABOR PRACTICES**

The Grantee shall comply with the Employers Engaging in Unfair Labor Practices Act, 1980 PA 278, as amended, MCL 423.321 *et seq.*

### **IX. LIABILITY**

(A) The Grantee, not the State, is responsible for all liabilities as a result of claims, judgments, or costs arising out of activities to be carried out by the Grantee under this Agreement, if the liability is caused by the Grantee, any subcontractor, or anyone employed by the Grantee.

(B) All liability as a result of claims, demands, costs, or judgments arising out of activities to be carried out by the State in the performance of this Agreement is the responsibility of the State and not the responsibility of the Grantee if the liability is materially caused by any State employee or agent.

(C) In the event that liability arises as a result of activities conducted jointly by the Grantee and the State in fulfillment of their responsibilities under this Agreement, such liability is held by the Grantee and the State in relation to each party's responsibilities under these joint activities.

(D) Nothing in this Agreement should be construed as a waiver of any governmental immunity by the Grantee, the State, its agencies, or their employees as provided by statute or court decisions.

### **X. CONFLICT OF INTEREST**

No government employee or member of the legislative, judicial, or executive branches or member of the Grantee's governing body, its employees, partner, agencies or their families shall have benefit financially from any part of this Agreement.

### **XI. AUDIT AND ACCESS TO RECORDS**

See Section XVIII (C).

### **XII. INSURANCE**

(A) The Grantee shall maintain insurance or self insurance that will protect it from claims that may arise from the Grantee's actions under this Agreement or from the actions of others for whom the Grantee may be held liable.

(B) The Grantee must comply with applicant workers' compensation laws while engaging in activities authorized under this Agreement.

### **XIII. OTHER SOURCES OF FUNDING**

The Grantee guarantees that any claims for reimbursement made to the State under this Agreement shall not be financed by any source other than the State under the terms of this Agreement. If funding is received through any other source, the Grantee agrees to delete from Grantee's billings or to immediately refund to the State, the total amount representing such duplication of funding.

### **XIV. COMPENSATION**

(A) A breakdown of Project costs covered under this Agreement is identified in Exhibit A. The State will pay the Grantee a total amount not to exceed the amount on page one of this Agreement, in accordance with Exhibit A, and only for expenses incurred. All other costs over and above the Grant amount, necessary to complete the Project, are the sole responsibility of the Grantee.

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(B) The Grantee is committed to the match amount on page one of this Agreement, in accordance with Exhibit A. The Grantee shall expend all local match committed to the Project by the End Date of this Agreement.

(C) The State will approve payment requests after approval of reports and related documentation as required under this Agreement.

(D) The State reserves the right to request additional information necessary to substantiate payment requests.

#### **XV. CLOSEOUT**

(A) A determination of Project completion shall be made by the DEQ after the Grantee has met any match obligations and satisfactorily completed the activities and provided products and deliverables described in Exhibit A.

(B) Upon issuance of final payment from the State, the Grantee releases the State of all claims against the State arising under this Agreement. Unless otherwise provided in this Agreement or by State law, final payment under this Agreement shall not constitute a waiver of the State's claims against the Grantee.

(C) The Grantee shall immediately refund to the State any payments or funds in excess of the costs allowed by this Agreement.

#### **XVI. CANCELLATION**

This Agreement may be canceled by the State, upon 30 days written notice, due to Executive Order, budgetary reduction, or other lack of funding upon request by Grantee or upon mutual agreement by the State and Grantee. The State reserves the right to provide just and equitable compensation to the Grantee for all satisfactory work completed under this Agreement.

#### **XVII. TERMINATION**

(A) This Agreement may also be terminated by the State for any of the following reasons upon 30 days written notice to the Grantee:

(1) If the Grantee fails to comply with the terms and conditions of the Agreement or with the requirements of the authorizing legislation cited on page 1 or the rules promulgated thereunder, or with other applicable law or rules.

(2) If the Grantee knowingly and willfully presents false information to the State for the purpose of obtaining this Agreement or any payment under this Agreement.

(3) If the State finds that the Grantee, or any of the Grantee's agents or representatives, offered or gave gratuities, favors, or gifts of monetary value to any official, employee, or agent of the State in an attempt to secure a subcontract or favorable treatment in awarding, amending, or making any determinations related to the performance of this Agreement.

(4) During the 30-day written notice period, the State shall also withhold payment for any findings under subparagraphs 1 through 3, above.

(5) If the Grantee or any subcontractor, manufacturer, or supplier of the Grantee appears in the register of persons engaging in unfair labor practices that is compiled by the Michigan Department of Licensing and Regulatory Affairs or its successor.

(B) The State may immediately terminate this Agreement without further liability if the Grantee, or any agent of

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the Grantee, or any agent of any subagreement, is:

(1) Convicted of a criminal offense incident to the application for or performance of a state, public, or private contract or subcontract;

(2) Convicted of a criminal offense, including but not limited to any of the following: embezzlement, theft, forgery, bribery, falsification or destruction of records, receiving stolen property, or attempting to influence a public employee to breach the ethical conduct standards for State of Michigan employees;

(3) Convicted under state or federal antitrust statutes;

(4) Convicted of any other criminal offense which, in the sole discretion of the State, reflects on the Grantee's business integrity; or

(C) If a grant is terminated, the State reserves the right to require the Grantee to repay all or a portion of funds received under this Agreement.

### **XVIII. PROGRAM-SPECIFIC REQUIREMENTS: SAW REPAYABLE GRANT**

(A) General Representations. The Grantee represents and warrants to, and agrees with, the Authority and DEQ, as of the date hereof as follows:

(1) Grant funds shall be expended only to cover costs for the development of an Asset Management Plan, Stormwater Management Plan, innovative wastewater or stormwater technology, construction costs for disadvantaged communities, or for planning, design and user charge development.

(2) Grant funds used for administrative activities or activities performed by municipal employees shall be limited to work that is directly related to the Project and is conducted by employees of the Grantee.

(3) The Grantee has full legal right, power and authority to execute this Agreement, and to consummate all transactions contemplated by this Agreement, the Resolution, and any and all other agreements relating thereto. The Grantee has duly authorized and approved the execution and delivery of this Agreement, the performance by the Grantee of its obligations contained in this Agreement, and this Agreement is a valid, legally binding action of the Grantee, enforceable in accordance with the terms thereof except as enforceability may be limited by bankruptcy, insolvency, reorganization, moratorium and other similar laws affecting the rights of creditors generally, and by principles of equity if equitable remedies are sought.

(4) The Resolution has been duly adopted by the Grantee, acting through its executive(s) or governing body, is in full force and effect as of the date hereof, and is a valid, legally binding action of the Grantee, enforceable in accordance with the terms thereof except as enforceability may be limited by bankruptcy, insolvency, reorganization, moratorium and other similar laws affecting the rights of creditors generally, and by principles of equity if equitable remedies are sought.

(5) The execution and delivery of this Agreement by the Grantee, and the fulfillment of the terms and conditions of, and the carrying out of the transactions contemplated by the Resolution and this Agreement do not and will not conflict with or constitute on the part of the Grantee a breach of, or a default under any existing law (including, without limitation, the Michigan Constitution), any court or administrative regulation, decree or order or any agreement, indenture, mortgage, obligation, lease or other instrument to which the Grantee is subject or by which it is bound and which breach or default would materially affect the validity or binding effect of the Grant, or result in a default or lien on any assets of the Grantee. No event has occurred or is continuing which with the lapse of time or the giving of notice, or both, would constitute a default by the Grantee under the Resolution or this Agreement.

(6) No consent or approval of, or registration or declaration with, or permit from, any federal, state or other governmental body or instrumentality, is or was required in connection with enactment by the Grantee of the

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Resolution, or execution and delivery by the Grantee of this Agreement which has not already been obtained, nor is any further election or referendum of voters required in connection therewith which has not already been held and certified and all applicable referendum periods have expired.

(7) Proceeds of the Grant will be applied (i) to the financing of the Project or a portion thereof as set forth in the Resolution and Exhibit A or (ii) to reimburse the Grantee for a portion of the cost of the Project. The Grantee will expend the proceeds of each disbursement of the Grant for the governmental purpose for which the Grant was issued.

(8) The attached Exhibit A contains a summary of the estimated cost of the Project, which the Grantee certifies is a reasonable and accurate estimate.

(9) The Grantee reasonably expects (i) to fulfill all conditions set forth in this Agreement to receive and to keep the Grant, and (ii) that no event will occur as set forth in this Agreement which will require the Grantee to repay the Grant.

(B) Repayment of Grant. The Grantee shall repay the Grant, within 90 days of being informed to do so, with interest calculated from the date Grant funds are first drawn at a rate not to exceed 8% per year, to be determined by the Authority, to the Authority for deposit into the SWQIF.

“(a) A grant recipient (shall) proceed with a project for which grant funding is provided within 3 years after the department approves the grant (executed grant agreement). For asset management programs related to sewage collection and treatment systems, this includes significant progress, as determined by the department, toward achieving the funding structure necessary to implement the program.

(b) The grant recipient (shall) repay the grant, within 90 days of being informed to do so, with interest at a rate not to exceed 8 percent per year, to the Authority for deposit into the fund if the applicant is unable to, or decides not to, proceed with a construction project or begin implementation of an asset management program for which grant funding is provided.”

SAW grant recipients for wastewater system asset management plans are required to make significant progress on the funding structure. Significant progress is defined as a 5-year plan to eliminate the gap with a minimum initial rate increase to close at least 10 percent of the funding gap. The first rate increase must be implemented within three years of the executed grant. The applicant will need to certify that all grant activities have been completed at the end of three years. Asset management plans for stormwater systems are to be implemented. Stormwater management grant recipients must develop a stormwater management plan. Innovative project grant recipients must proceed with full implementation or certify that the project is not financially or technically feasible.

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(1) The Grantee has the legal, managerial, institutional, and financial capability to plan, design, and build the Project, or cause the Project to be built, and cause all facilities eventually constructed to be adequately operated.

(2) The Grantee certifies that no undisclosed fact or event, or pending litigation, will materially or adversely affect the Project, the prospects for its completion, or the Grantee's ability to make timely repayments of the grant if any of the two (2) conditions identified under Section XVIII(B) occur.

(3) The Grantee agrees to provide the minimum appropriate local match for grant-eligible costs and disburse match funds to service providers concurrent with grant disbursements.

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(10) The Grantee acknowledges that acceptance of a wastewater asset management grant will subsequently affect future NPDES permits to include asset management language as applicable.

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If all or a portion of this Agreement is funded with state funds, then the Grantee shall not use any of the grant funds awarded in this Agreement for the purpose of lobbying as defined in the State of Michigan's lobbying statute, MCL 4.415(2). "Lobbying" means communicating directly with an official of the executive branch of state government or an official in the legislative branch of state government for the purpose of influencing legislative or administrative action." The Grantee shall not use any of the grant funds awarded in this Agreement for the purpose of litigation against the State. Further, the Grantee shall require that language of this assurance be included in the award documents of all subawards at all tiers.

## **XXII. IRAN SANCTIONS ACT**

By signing this Agreement, the Grantee is certifying that it is not an Iran linked business, and that its contractors are not Iran linked businesses as outlined in Michigan Compiled Law 129.312

## **XXIII. DEBARMENT AND SUSPENSION**

By signing this Agreement, the Grantee certifies to the best of its knowledge and belief that it, its agents, and its subcontractors:

- (1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any federal department or the state.
- (2) Have not within a 3-year period preceding this Agreement been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (federal, state, or local) transaction or contract under a public transaction as defined in 45 CFR 1185; violation of federal or state antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property.
- (3) Are not presently indicted or otherwise criminally or civilly charged by a government entity (federal, state, or local) with commission of any of the offenses enumerated in subsection (2).
- (4) Have not within a 3-year period preceding this Agreement had one or more public transactions (federal, state, or local) terminated for cause or default.
- (5) Will comply with all applicable requirements of all other state or federal laws, executive orders, regulations, and policies governing this program.

October 6, 2015

## SAW Grant Program

## Exhibit A

Grantee: Charter Township of Plymouth

Project Name: Wastewater Asset Management Plan

DEQ Approved Grant Amount: \$2,000,000 (Two Million Dollars)

Time Period for Eligible Costs: Start Date January 2013

End Date October 2018

Description of Approved Project Scope:

Preparation and completion of a wastewater asset management plan.

DEQ Approved Project Costs	
1. Project Planning Costs	\$0
2. Design Engineering Costs	\$0
3. User Charge System Development Costs	\$0
4. Wastewater Asset Management Plan Costs	\$2,444,444
5. Stormwater Asset Management Plan Costs	\$0
6. Stormwater Management Plan Costs	\$0
7. Innovative Wastewater and Stormwater Technology Costs	\$0
8. Disadvantaged Community Construction Costs	\$0
9. Eligible Cost Subtotal	\$2,444,444
10. LESS Local Match (if applicable)	\$444,444
11. Requested SAW Grant Amount (Line 9 minus Line 10)	\$2,000,000



May 13, 2016

Reference No. 11109817

Mr. Patrick Fellrath, Director of Public Utilities  
Charter Township of Plymouth  
9955 N. Haggerty Road  
Plymouth, MI 48170

Dear Mr. Fellrath:

**Re: Response to Request for Pricing Information  
Wastewater Asset Management Plan Development Proposal  
Charter Township of Plymouth**

GHD Services Inc. (GHD) and Wade Trim Associates, Inc. (WT) have prepared this letter in response to your email dated May 3, 2016 requesting additional information in order to assist in the continued review of our Team's proposal. Each item is presented below followed by our response.

**Item 1: Provide rate sheets including the name, title, and hourly billing rate for each team member identified in your proposal.**

**Response:** The requested rate sheet for both GHD and WT team members is included as an attachment to this letter.

**Item 2: Provide a Letter of Commitment signed by a person authorized to obligate your firms to perform the tasks described in your proposal and the Township's SAW Grant Application within the budget and timeframe specified in the Township's SAW Grant Application. The letter should address the line item tasks and associated proposed budgets shown in the Township's SAW Grant Application, namely in Appendix C, Section E (page 30) and Attachment A (page 7 of 9). Please note that the line item budgets specified in the Township's SAW Grant Application may be adjusted by the Consultant to provide the best scope of services and value while meeting the overall Township SAW Program objectives. Any proposed changes to the line item budgets must be described, and the reasoning for the proposed changes must be explained and justified in your letter.**

**Response:** This response letter serves as our Team's Letter of Commitment to perform the tasks described in our proposal and the Township's SAW Grant Application within the budget and timeframe specified in the Township's SAW Grant Application. We accept the line item tasks and proposed budgets shown in the above referenced sections of the Township's SAW Grant Application without modification.

Our Team's proposal was developed based on the requirements of the RFP, our extensive experience in implementing Asset Management programs for municipal wastewater utilities, our knowledge of the Township wastewater system assets and the requirements of the Stormwater, Asset Management, and Wastewater (SAW) grant received by the Township.

The GHD/WT Team is committed to completing the scope of work by October 1, 2018, the time required by the SAW grant. Our Team believes that the available funding is adequate to complete the project tasks as outlined in the SAW grant and described in our proposal. Our approach will result in the best value to the Township for implementing an asset management program that meets the SAW Program objectives and that may be able to be used as a framework for other Township assets.

Thank you for continued review of our Proposal and the attached Submittals on this important project. We are confident that the GHD/WT Team is the best team for this project; our Team is excited and looking forward to working with the Township.

Please do not hesitate to contact the undersigned if you have any questions or require additional information.

Sincerely,



Scott J. Adamowski, PE  
Vice President  
GHD



Daniel R. Brooks, PE  
Sr. Associate  
WadeTrim

ML/bw/1

Encl.

cc: Gage Muckleroy, PE, GHD  
Matt Lamb, PE, GHD





**Table 1 - Rate Sheet**

Team Member Identified in Proposal	Firm	Title Identified in Organization Chart	Hourly Billing Rate (\$/hr)
Scott Adamowski, PE	GHD	Project Principal	\$200
Matt Lamb, PE	GHD	Project Manager	\$165
Gage Muckleroy, PE*	GHD	Asset Management Technical Lead, Task Manager Asset Management Framework, Asset Management Plan and Public Meetings	\$245
Dan Brooks, PE	Wade Trim	Task Leader Asset Inventory and Condition Assessment, Grant Administration and Public Meetings	\$190
Roop Lutchman, P. Eng, PMP	GHD	Quality Assurance	\$245
David Nummer, PE	Wade Trim	Quality Assurance	\$165
Thomas Traclak**	H.J. Umbaugh & Associates	Task Lead Financial Assessment	\$285
Mark Seastead***	GHD	Task Lead Asset Management Software	\$175
Greg Stanley, PE	Wade Trim	Task Lead Training	\$165
Mert Muftugil, PE	GHD	Asset Management Technical Support	\$175
Adam Young, AICP	Wade Trim	Geographic Information Services (GIS) Technical Support	\$165
Paul Udocon	GHD	Civil Engineering Technical Support	\$120
Eric Maise	GHD	Junior Engineer Technical Support	\$120
Dan Kribs***	GHD	Engineering Technical Support	\$100
Sean Tharpe	Wade Trim	NASSCO Certified Field Technician	\$95
Michael Bywalec	Wade Trim	NASSCO Certified Field Technician	\$80
Joseph Dwyer, EIT	Wade Trim	NASSCO Certified Field Technician	\$80

\*Mr. Muckleroy and Mr. Lutchman are Asset Management National Specialists and together represent less than 5% of the total project budget.

\*\*Please note that H.J. Umbaugh & Associates have been included in our proposal as a potential rate structure consultant that would contract directly with the Township as described in the technical approach. The Township may choose a different Financial Consultant to develop the rate analysis if desired and it will not affect our proposed budget and technical approach.

\*\*\*No longer with firm, will be replaced with staff with equivalent qualifications.

**SAW GRANT APPLICATION**  
**(Pricing Tables: Appendix C, Section E, Page 30; and Attachment A, Page 7 of 9)**



If the applicant currently does not have a rate methodology, the asset management plan must include the development of a funding structure and rate methodology that provides sufficient resources to implement the asset management plan.

Is the applicant part of a regional facility?  YES  NO

**D. Cross-Sectoring**

Section 2504 o (2)(i) states that "The municipality shall coordinate, as feasible, with other infrastructure activities in the same geographic area." Asset management encourages cross-sector utilization (for water utility, roads, gas, phones, etc.); however grant assistance may only be requested for those costs directly related to the requested asset management grant.

If cross-sectoring occurs, describe how SAW costs will be tracked.

See Attachment A

**E. Project Cost Worksheet**

Carefully read the guidance below before completing the Project Cost Worksheet.

Item	Incurred Costs	Force Account Costs	Estimated Costs	Supporting Documents	Total
Inventory		\$21,108	\$528,892	x Y N	\$550,000
Condition assessment (excluding televising)		\$27,200	\$211,800	x Y N	\$239,000
Metering/modeling				Y N	
AM/GIS Software*		\$0	\$76,500	x Y N	\$76,500
AM/GIS Training*		\$9,123	\$1,377	x Y N	\$10,000
AM/GIS Hardware*		\$0	\$23,000	x Y N	\$23,000
Cleaning & Televising Contracted costs Equip. rental costs Labor costs		\$0	\$1,234,944	x Y N	\$1,234,944
Level of Service Service agreement development Public meeting cost Ordinance cost		\$9,860	\$65,140	x Y N	\$75,000
Training/certification For PACP For MACP		\$16,743	\$13,257	x Y N	\$30,000
Rate Structure Development costs		\$15,145	\$24,855	x Y N	\$40,000
Other		\$17,400	\$148,100	x Y N	\$165,500

\*Indicates items included in the cost limitations for software, hardware, and training as described in the Guidance below.

THE FORM WILL NOT BE ACCEPTED IF IT HAS BEEN EDITED, ALTERED, RETYPED, OR CONVERTED TO ANY OTHER FORMAT

**Engineer's Estimated Consultant/Contractor Cost Breakdown – Wastewater AMP:**

Asset Management Plan Activity	Estimated Hours <sup>1</sup>	Estimated Total Cost <sup>1</sup>	Included in Item E Table Heading
<b>Asset Management Project Initiation</b>			
• SAW Application	100	\$10,000	Other
• Project organization, personnel, meetings	211	\$21,150	Other
• Level of Service and Key Performance Indicators	425	\$42,590	Level of Service
<b>Asset Management Software, Hardware &amp; Training</b>			
• Asset Management Hardware	NA	\$23,000	Asset Management Hardware
• Asset Management Software	NA	\$76,500	Asset Management Software
• Asset Management Training	13	\$1,377	Asset Management Training
<b>Asset Inventory and Data Collection</b>			
• Determine inventory needs/scope • Basemap, base utility data and utility data conversion • Scan & hyperlink existing record drawings • Input assets into AMP software • Perform field inventory of facility assets within jurisdiction as required to determine/verify asset data	5,288	\$528,892	Inventory
<b>Condition Assessment</b>			
• Cleaning and televising of sanitary sewers	Const. Cost (Admin under Eng Assess)	\$1,234,944 <sup>2</sup>	Televising
• PACP and MACP training for staff	132	\$13,257	PACP/MACP Training
• Manhole Inspections	1,404	\$140,400	Condition Assessment (excluding televising)
• Pump Station Inspections	164	\$16,400	
• Compile historical sewer maintenance, cleaning and televising records	50	\$5,000	
• Engineering assessment for televising	500	\$50,000	
<b>Asset Criticality and Risk</b>			
• Assessment of Criticality & Risk	369	\$36,950	Other
<b>Rate Structure</b>			
• Life cycle costing • Funding review • Financial review and analysis	248	\$24,855	Rate Structure Development Costs
<b>Investment Prioritization and Future Planning</b>			
• Develop CIP	500	\$50,000	Other
• Compile AMP Report and Documentation	300	\$30,000	Other
• Presentations to elected officials and the public	222	\$22,550	Public Meeting Costs
<b>GRAND TOTAL =</b>		<b>\$2,327,865</b>	

<sup>1</sup>Total costs include estimated billable time for applicant staff and consultants, course fees for training, software and hardware purchase costs, and contractor costs. Applicant staff time includes administration of consultants and contractors for eligible grant-related work. Estimated hours are included for reference only and were based on an aggregate rate of \$90/hour to \$110/hour to represent a combined rate for applicant staff costs based on the attached rate table of consultant fees.

<sup>2</sup>Cleaning and televising costs are included in this number. Please see below for construction costs. Some rounding was done to keep numbers consistent.



# 8. Schedule

Our Team feels there is adequate time allowed in the SAW Grant to complete the project.

As indicated in the general approach, we are proposing a phased implementation strategy for completing the project.

The proposed phases are:

- **Phase 1** will primarily focus on executing Task 1 Project Initiation (3 to 6 months). There is some preliminary work that will happen in other tasks as well.
- **Phase 2** will focus on developing a Pilot Wastewater System Asset Management Plan based on the output of Phase 1 (6 to 9 months).
- **Phase 3** will focus on applying the framework to the wastewater system assets and develop the Final Wastewater System AMP (18 to 24 months).

It is anticipated that each of the phases will have some overlap and not be done exclusively in series.

Our Team will work with the Township staff to develop a feasible implementation schedule as part of the "roadmap" completed in Task 1. Based on our current knowledge of the Township's system and our experience with similar projects, the following is an initial proposed project schedule:

Please note that project management and related tasks will be completed throughout the project. The following is a description of each task's scheduling considerations.

- **Task 1** — Project initiation will be done in the first 3 to 6 months of the project. This task will focus on setting the right direction, identifying existing gaps in data and practices, and developing a "roadmap" for the rest of the project.
- **Task 2** — Asset inventory and data collection will be completed at different times throughout the project. Based on the findings of the asset data gap assessment we will develop a strategy for development of the asset register and data collection. Initial data collection efforts will consider risk in prioritizing work.
- **Task 3** — Initial effort will use a desktop analysis to determine which assets are the most important to focus on doing in the field condition assessment. In field condition assessments will be completed throughout the project at different intervals.

Task	2016				2017				2018		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
1. Project Initiation	■	■									
2. Asset Inventory and Data Collection	■	■	■		■	■	■	■	■		
3. Condition Assessment		■	■		■	■	■	■	■		
4. Asset Criticality and Risk		■	■			■			■		
5. Investment Prioritization and Future Planning			■	■					■	■	
6. Rate Structure	■			■						■	■
7. Asset Management Software, Hardware and Training	■				■	■				■	■

Figure 8-1: Proposed project schedule

- **Task 4** — Asset criticality and risk will be determined for assets and used to prioritize condition assessment efforts as well as used in the development of the Wastewater System Asset Management Plan. It is anticipated that based on the in field condition scores that an updated risk profile will be created and used to reprioritize work as appropriate.
- **Task 5** – Investment prioritization and future planning tasks main output is the Wastewater System AMP. Effort on this task will take place at two distinct times, during the development of the pilot AMP and the final Wastewater System AMP. Effort on this task is completed in conjunction with Tasks 4 and 6.
- **Task 6** – This effort will focus on aligning the project team by defining the requirements of what will be needed for the Township to complete a rate structure analysis by their financial advisor/consultant.
- **Task 7** – Effort associated with implementing asset management software, hardware and training will be done at different stages throughout the project. There will be upfront work done in conjunction with Task 1 to define the requirements of the Township. Additional will be completed as defined the Task 1 “roadmap”.

Please note that the schedule presented is flexible so as to make the most appropriate use of Township staff's time.

# Appendix A: Resumes







# Curriculum Vitae

## Gage Muckleroy, PE

### Asset management



**Qualified.** The Johns Hopkins University. MS Environmental Engineering. 1993

Texas A&M. BS Civil Engineering. 1988.

Registered Professional Engineer: Virginia; Board Certified Environmental Engineer (BCEE)

**Relevance to project.** Gage has 25 years of civil engineering experience and a successful track record in planning, design and management of water/wastewater utility infrastructure assets. Gage leads many of GHD's projects and programs in asset management. He has helped clients incorporate asset management approaches to the stage that they become normal business practice. As a result he knows what is required to apply – and deliver - quality systems and outcomes on projects. Gage is currently the lead instructor in advanced asset management courses that include risk analysis at the University of Wisconsin and Virginia Tech's Sustainable Water Infrastructure Management Center. Gage is also an Institute of Asset Management (IAM) Endorsed Assessor.

#### Some recent and relevant experience in asset management

##### **Asset Management Task Lead Capital Region Water (CRW) | Harrisburg, Pennsylvania**

*Asset management program.* Gage's services include developing an asset management framework and implementation plan for the utility based on the US EPA AM Framework, including condition assessment and consequence of failure scoring as part of a risk/criticality assessment for sewer and water assets. The project also includes a Cityworks work order management system implementation.

##### **Asset Management Task Lead City of Annapolis Department of Public Works (DPW) | Annapolis, Maryland**

*Sewer and water buried infrastructure asset management.* Gage is currently providing overall technical guidance and QA/QC on project approach and deliverables. Based on his experience implementing asset management practices within an organization, Gage brings this knowledge to bear in making sure that the practices being developed are "Fit-for-Purpose", and not a "one-size-fits-all". The asset management framework being implemented is based on the US EPA AM Framework.

The wider team is working with DPW staff to develop an asset management strategy and implementation plan and 20 Year Master Plan.

The City's DPW is responsible for wastewater, water and soon to be stormwater infrastructure.

##### **Project Manager**

##### **Madison Metropolitan Sewerage District | Madison, Wisconsin**

*Sustainable asset management program.* This project includes the development of a sustainable asset management (SAM) framework and implementation plan for the District. The framework is based on the US EPA's 5 Core Questions and includes condition, levels of service, risk and business case analysis elements. The project is now in the implementation phase. Gage is responsible for all aspects of the project and is the technical lead in assisting the District in the development and implementation of their SAM program.

##### **Project Manager**

##### **Vallejo Sanitation and Flood Control District | Vallejo, California**

*Infrastructure management program, infrastructure inventory and assessment.* This project includes the development of an asset management framework and implementation plan for the District based on the US EPA AM Framework. The project also includes developing an asset management plan of the solids process at the WWTP. Gage is the project manager and responsible for all aspects of the project. The first phase is focusing on identifying the opportunity gaps for improving





# Curriculum Vitae

infrastructure management decision making, and developing a pilot asset management plan (investment needs). Based on the results of the pilot asset management plan, the District plans to roll-out the framework and associated strategies to all of their assets. Outputs of the work will inform the maintenance strategies used in their asset management work order system.

## **Principal Instructor University of Wisconsin | various locations |**

*Asset management training workshops.* Gage leads advanced asset management workshops for several professional organizations and educational institutions. These hands-on training sessions are developed around the EPA Framework of 5 core questions and 10 elements of an asset management framework. Gage brings his real world experience in developing the course material and shows participants how to translate theory to practice. Current on-going and recurring teaching engagements are with the following organizations and institutions:

- Virginia Tech Sustainable Water Infrastructure Management (SWIM) Centre in collaboration with the Water Environment Research Foundation (WERF) | Arlington, VA
- University of Wisconsin Civil Engineering Department | Madison, WI
- Chesapeake Water Environment Foundation in collaboration with the Chesapeake Section of AWWA | Washington, DC; Newark, DE; Mount Laurel, NJ; Ocean City, MD.

## **Program Director Washington Suburban Sanitary Commission (WSSC) | Laurel, Maryland**

*Asset management program.* As Program Director, Gage oversaw the technical direction and overall QA/QC of the project. The project included the implementation of an asset management decision making framework based on the US EPA AM Framework. The AM program implementation included many challenges that required Gage and the GHD team to find unique and "outside-the-box" approaches and solutions.

WSSC is the nation's 8th largest wastewater and water utility, providing wastewater and water services to a population of nearly 1.8 million people.

The program developed a framework and associated pilots to create AMPs for different classes of assets that are 'dynamic' and updated periodically by WSSC staff. On an annual basis

the AMPs will: define operations, maintenance and capital funding requirements, enabling WSSC to improve management and investment decision making when setting Capital and Operational budgets. Improved decision making uses Business Risk Exposure as a primary element, balancing with asset performance.

Phase 1 (completed in 2007) and Phase 2 (completed in 2009) created a Strategic Level Enterprise Asset Management Plan (EAMP) and an Asset Management Implementation Plan (AMIP).

Phase 3 built upon the work completed in Phases 1 and 2 with an emphasis on implementation. GHD successfully completed Phase 3 of the project in 2014.

## **Other areas of interest**

### **Other memberships**

- American Academy of Environmental Engineers
- Water Environment Federation (WEF)
- Chesapeake Water Environment Association – Asset Management Committee Member
- Virginia Water Environment Association – Utility Management Committee Member
- Institute of Asset Management Endorsed Assessor

### **Presentations**

"A Pragmatic Approach to Desktop Condition Assessment for Water Distribution System Ferrous Pipes", New England Water Environment Association Annual Conference, Boston, MA, January 2010

"Enterprise Asset Management Services: Steps to Building a Successful Asset Management Program", VA AWWAWEA Joint Annual Meeting, September 2009

"Master Planning Plus - Utility Wide Master Planning Built Upon the Principles of Asset Management for the Washington Suburban Sanitary Commission", WEFTEC 2008

"Use of Geographical Information Systems (GIS) in Infrastructure Master Planning", Chesapeake Water Environment Association Annual Conference, 2007

"How to Link Condition Assessment with Asset Management", Pressure Pipe Condition Assessment and Asset Management Workshop. WVEA Utility Management Committee, one of lead presenters focusing on asset management, 2012

"Maintaining High Quality Service with Targeted Investments - Development of an Asset Management Plan for a Large Utility", WEFTEC 2011

"Development of a Condition Assessment Protocol to Support Asset Management Planning for the Water



# Curriculum Vitae

- Distribution System of the Washington Suburban Sanitary Commission", Tri-Con 2012
- "Strategizing for the Future using Advanced Asset Management to Plan for Impacts of Aging Infrastructure," Utility Management Conference, 2012
- "Improving pipe network management through improved condition assessment and modeling," ACE 2013 (abstract accepted)
- "Business Case for Belt Filter Press Renewal to Compare Alternatives," Tri-Con, 2013
- "Decision Support Systems: The Next Horizon in Asset Management", Tri-Con 2014 and PennTech 2015
- "Developing a Risk Framework for your Utility", Tri-Con 2014.
- "Business Case Evaluation Process – WSSC Case Study", WEFTEC New Orleans, 2014.
- Initial Quarterly Asset Management Forum, Laurel, Maryland, 2012. Principal Speaker and Facilitator for the first AM Forum for AM practitioners.
- Asset Management Forum, Laurel, Maryland, 2012. Mt. Laurel NY, 2013 and DC Water 2013. Principal Speaker and Facilitator.
- Advance Asset Management Training – University of Wisconsin – Principal Instructor for three day advance asset management training course, May 2014 and May 2015
- Advanced Asset Management Training – Virginia Tech SWIM Center – Principal Instructor, Arlington, VA March 2015
- Advanced Asset Management Training – Chesapeake Water Environment Association, Wilmington, DE March 2015.





**Role**

Lead Asset Inventory and Condition Assessment, Grant Administration, Public Meetings

**Education**

BS Civil Engineering, Michigan Technological University, 1978

**Registration**

Professional Engineer, MI

**Qualifications**

- WadeTrim Client Representative for Plymouth Township for 2015 road projects
- Provides day-to-day engineering services and design engineering support for the Charter Township of Redford and the City of Dearborn Heights
- More than 30 years experience as a Client Representative
- Completed numerous projects for communities including roadway improvements through the MDOT Local Agency Program, review of private development projects, local road paving, and municipal capital improvement programs
- Extensive hydraulic analysis, storm water, wastewater, and floodplain evaluation experience
- Coordinates GIS mapping of utility systems and ensures that requirements of National Pollution Discharge Elimination System (NPDES) permits are being met

**Representative Project Experience**

- 2014 and 2015 Watermain Improvements, City of Dearborn Heights, MI. Project Manager. Design Engineering Services and Construction Administration for installation of more than 12,000 feet of 12-inch watermain utilizing pipe bursting method of construction.
- City of Dearborn Heights Phase II CSO Improvement program identified two viable alternatives to address uncontrolled CSO discharges along the Middle Rouge River. The selected project met NDNRE water quality goals at time of discharge. The uncontrolled discharges from three CSO areas were directed to the City's existing CSO basin. Project consisted of the construction of

over 5000 linear feet of 36" to 72" collector sewers to be tied in to the existing infrastructure of the CSO Basin.

- Alternative Evaluation and Basis of Design Reports, City of Dearborn Heights and Charter Township of Redford, Prepared the Basis of Design Report and updates for the communities Combine Sewer Overflow (CSO) Control Program to assure compliance with their National Pollution Discharge Elimination System (NPDES) Permit. These reports final recommendation is for the communities to participate in DWSD Capture Basins for CSO Control.
- Corrective Action Plan (CAP) North Huron Valley/Rouge Valley, City of Dearborn Heights, The CAP addressed a deficiency in the City's purchase capacity to the North Huron Valley/Rouge Valley (NHV/RV) interceptor system. The City was unable to certify that the projected flows from the 5-year, 2-hour design storm event were below their purchase capacity. The analysis concluded that there was an 8 cfs deficiency between the purchase capacity and the design storm flows. As part of the City's CAP, it was proposed that the existing CSO regulators along the Middle Rouge be modified to reduce the amount of flow entering the interceptor by 8 cfs to eliminate this deficiency and to provide this capacity to a tributary area served by a separated sanitary sewer system.
- Pelham Road Resurfacing Construction Engineering, City of Dearborn Heights, MI. Project Manager for Pelham Road Resurfacing Construction Engineering Services.
- Maplewood Avenue Reconstruction Phase II, from Inkster to Harrison and from Henry Ruff to Merriman, Local Agency Program, City of Garden City, MI. Client Representative and Project Manager for reconstruction of two, half-mile sections of Maplewood Avenue, a boulevard with integral curbs and gutters. The MDOT LAP project included water main replacement.

- Southfield Service Drive Reconstruction Local Agency Program, City of Dearborn Heights, MI. Project Manager and Client Representative for improvements to the Southfield Service Drive from Outer Drive to the Ecorse Creek Bridge, an MDOT Local Agency Program project that involved removal and replacement of the existing concrete pavement. Maintaining access during construction was critical for residents, businesses and those entering the freeway.
- Evergreen Road Reconstruction Local Agency Program, City of Dearborn Heights, MI. Project Manager and Client Representative for the reconstruction of one-half mile of Evergreen Road from Ann Arbor Trail to Ford Road. Developed an Intergovernmental Agreement for the Cities of Dearborn Heights and Detroit to allow them to share in the funding for the project that borders both communities. Provided design and construction engineering for the MDOT LAP project.
- Roads and Streets Capital Improvement Program, City of Dearborn Heights, MI. Client Representative for the development of a comprehensive roads and streets Capital Improvement Program (CIP) for 190 miles of street and road pavement in Dearborn Heights. The CIP provides a comprehensive inventory and condition assessment of the streets and roadways under City jurisdiction to aid in prioritizing pavements needing repair/rehabilitation as well as the suggested repair method and timeline for repairs.
- Private Development Plan Review, City of Dearborn Heights, Charter Township of Redford, MI. Perform review of private development project including commercial, industrial and residential.
- Bridge Replacement and Removal Program, City of Dearborn Heights, MI. Client Representative for a program to remove non-critical bridges to help control flooding along the Ecorse Creek.
- Water Main Replacement Programs, City of Dearborn Heights, MI. Developed a water main replacement program to address excessive water main breaks occurring in the older portion of the City's distribution system. About one to two miles of water main have been replaced annually since 1980, totaling more than 30 miles.
- Special Assessment Program, Charter Township of Redford, MI. Client Representative providing services for a special assessment program for paving gravel roads in the Township.
- Private Development Plan Review, Dearborn Heights, Garden City and Redford Township, MI. Review of private development projects including commercial, industrial and residential.
- Hydraulic Investigation for Several Bridge Structure Improvements, City of Dearborn Heights, MI.
- Ecorse Creek Pollution Abatement. Provided design for the combined sewer separation as well as the sanitary and storm water retention facilities.
- Sewer System Evaluation Survey and Rehabilitation, City of Dearborn Heights, and Charter Township of Redford, MI.
- Design Engineering for Military Hills Paving Program, City of Dearborn Heights, MI. Project Manager for design engineering services for Military Hills Paving Program.





# Curriculum Vitae

## Matt Lamb

Project manager



**Qualified.** Wayne State University. MS Civil & Environmental Engineering. 2002. Michigan Technological University. BS Environmental Engineering. 1997  
Registered Professional Engineer: MI

**Connected.** American Public Works Association; Water Environment Federation; National Association of Environmental Professionals; National Groundwater Association; National Brownfield Association; Engineering Society of Detroit; API 653 Inspector, American Petroleum Institute; STI SP001 Inspector, Steel Tanks Institute

**Relevance to project.** Matthew has over 17 years of experience in the consulting industry providing engineering and design services related to industrial facilities infrastructure, storm and sanitary systems, alternative energy systems, storage tank systems, industrial wastewater treatment systems, and a variety of other manufacturing plant infrastructure modifications (chillers systems, building modifications, sewer systems design/refurbishment, pump station upgrades, system instrumentation upgrades, etc.). He is also experienced in completion of energy efficiency assessments/audits, and feasibility assessments alternative energy and energy efficiency related projects.

### Storm Water Management System Design/Assessment/Upgrade

#### Project Manager

**Mann Creek Upgrades | General Motors | Milford, MI**

Project Manager for design of new primary storm water outfall for a 2,000-acre GM test facility in Milford, Michigan. Engineering efforts included development of a hydrologic model of the site to evaluate discharge rates during design storm events, optimization of restored culvert sizing, and design of a new outlet structure to minimize discharge of floating solids and provide flexibility to control rate of discharge of storm water to Mann Creek via two 54-inch culverts. Permitting support was also provided to obtain necessary USACE permits for work within a water body and temporary drawdown of a lake.

#### Project Manager

**Storm Water Collection and Treatment System | Confidential Client | Pontiac, MI**

Project Manager responsible for preliminary design of storm water collection and treatment system for 60-acre manufacturing facility in Pontiac, Michigan. Design efforts required CCTV inspections of existing sewer infrastructure, development of a detailed hydraulic and hydrologic model of the site, extensive storm sewer flow monitoring, and treatability study of representative storm water discharge. The system included a 3-million-gallon detention basin, extensive modifications to existing storm sewer network, and 2,000-gpm storm water treatment plant for removal of PCBs. This project also involved sampling, delineation, removal and disposal

coordination of approximately 100,000 square feet of PCB impacted concrete.

#### Project Manager/Engineer

**Former Willow Run Powertrain | RACER | Ypsilanti, MI**

Project Manager/Engineer responsible for evaluation of existing storm sewer system at a 3-million sf industrial facility in Ypsilanti, Michigan. Project is ongoing and involves collection and analysis of sewer flow monitoring data from large network of stations within sewer network, development of storm water management plans for use by contractors during facility decommissioning, and development of long term storm water management strategy for the site. Design efforts for long term storm water management system required extensive CCTV inspections for approximately 4,000-lf of existing storm sewer piping and associated catchbasins/manholes to evaluate existing conditions and quantify areas of groundwater infiltration.

#### Project Manager

**Gas Pipeline Compressor Station – Storm Water Sewer System Upgrades | Confidential Client | Ohio**

Project Manager responsible for completion of a feasibility study and concept development for major modification to the existing storm water management system for a 20-acre gas pipeline compressor station. Proposed modifications include: 1,000-ft of CIPP restoration of existing sewers; restoration/reconstruction of 12-manholes; installation of 1,200-ft of new storm sewers; installation of a new pump station; and installation of a Stormceptor. GHD has been engaged to completed detailed design for this upgrade in 2016.





# Curriculum Vitae

## Waste Water Treatment Design/Improvements/Permitting

### Project Engineer

#### Biological WWTP | EES Coke | River Rouge, MI

Project Engineer on a design/build project for a new biological wastewater treatment plant (WWTP) at a coking facility in River Rouge, Michigan primarily for removal of phenols and mercury. This project was constructed within an active plant and required demolition of abandoned process equipment in order to create space for the new WWTP installation. The new system incorporated over 2,000-ft of existing process piping and sewer systems. Demolition, construction, startup and controls integration of the new WWTP were completed without the need for shutdown or interruption of manufacturing activities at the site. Mr. Lamb coauthored a paper with client detailing project design and construction that was presented at the AIST conference.

### Project Engineer

#### RWTF | GM-SMCO Facility | Saginaw, MI

Project Engineer on design team for development of a new recycle water treatment facility (RWTF) to service the GM-SMCO facility in Saginaw, Michigan. Project involved preliminary and detailed design for the new RWTF, in-plant millwater piping/pump pit modifications, and engineering support to GM-SMCO environmental staff associated with the existing RWTF and landfill activities. The new RWTF facility was incorporated into the existing facility powerhouse and eliminated the need for approximately 1/2 mile of pipe trestle, and utilized refurbished treatment equipment from a nearby GM facility. This facility was later constructed by CRA under a design-build contract.

## Industrial Infrastructure

### Project Manager

#### Multiple Infrastructure Projects | Eastman Chemical Plant | Trenton, MI

Project Manager responsible for multiple infrastructure improvement feasibility evaluation and design projects at the Eastman Chemical Plant located in Trenton, Michigan. Infrastructure improvements projects have included: detailed structural and mechanical design for expansion of chiller building and addition of two low temperature de-limonene chillers; preliminary design of new central steam plant to service process needs; detailed structural and mechanical design for replacement of 20,000-gallon lime slurry tank; detailed structural design for pneumatic final products silo hoist; mechanical and structural design for addition of new centrifugal sifter; detailed mechanical and structural design for utility upgrades associated with new central steam plant; and condition assessment/feasibility evaluation for river water intake structure upgrade/replacement.

### Project Manager

#### 60-Acre Asphalt Overlay | General Motors | Milford, MI

Project Manager for design of asphalt overlay of a 60-acre test pad at a GM test facility in Milford, Michigan. Design included development of asphalt mix requirements to meet strict tolerances on coefficient of friction, and work staging plan to allow for continued use of the test pad during construction. This project also included QA/QC testing during construction. Following completion, the project was recognized with an award of merit from the Asphalt Paving Association of Michigan and the Michigan Department of Transportation.

### Project Manager/Engineer

#### Bulk Salt Storage Facility | Morton Salt | Detroit, MI

Project Manager/Engineer responsible for design of pavement and infrastructure improvements for a new bulk salt storage facility located in Detroit, Michigan. Facility was a 7-acre site previously used for aggregate storage along the banks of the Rouge River. Project involved pavement design for 6 acres of pavement including two salt storage pads with containment berms and separate sewer systems for collection and discharge of contact and non-contact storm water. Project also involved development of full HEC-RAS model of the associated segment of the Rouge River in order to evaluate impact of the site modification on the base flood elevation and secure MDEQ/USACE permits. Following design, project included providing construction layout, oversight and testing of subgrade and asphalt densities.

### Project Manager

#### Line 6B Replacement | Enbridge | MI and IN

Project Manager for provision of survey and ACAD support services for 250-mile segment of new petroleum pipeline in southern Michigan and northern Indiana. GHD provided line locate, surveying and mapping for 60 stream crossing locations. Property boundary and easement surveys were also completed on select properties along the new pipeline route. In support of the client's land acquisition agents, GHD also prepared approximately 400 individual pipeline alignment drawings depicting proposed pipeline and easement locations for negotiations with individual property owners.

## Work history

- |                |  |
|----------------|--|
| 2002 – present | Associate, GHD (formerly Conestoga-Rovers & Associates), Plymouth, MI/Windsor, ON<br>Named Associate, 2009 |
| 2000 – 2002    | August Mack Environmental, Inc., Livonia, MI   |
| 1997 – 2000    | Integrated Environmental, Inc., Livonia, MI  |





# Curriculum Vitae

## Scott J. Adamowski, PE

Principal



**Qualified.** Union College. BS Civil Engineering. 1981.

Registered Professional Engineer: MI

**Relevance to project.** Scott is Vice President/Principal with GHD Services, Inc. He has provided consulting services for over thirty years, specializing in environmental and infrastructure work throughout North America. He has authored and co-authored numerous technical publications and has been active in professional/technical societies. Examples of programs he has been involved with include wastewater and sewer system improvements; infrastructure and process upgrades; energy management and sustainability; bulk fluid system management; decommissioning and demolition; environmental investigation, remediation and compliance programs.

### Water, Sewer and Utility Infrastructure Experience

#### Principal

#### Utility and Building Engineering | Wayne County Airport Authority | Romulus, MI

Directed the decommissioning and dismantlement of several hangars, terminals and airport buildings at the Detroit Metro and Willow Run Airports. The specific scope of services included dismantlement engineering, environmental decommissioning, investigation, reroute or abandonment of sewers, the re-routing of airfield lighting and electrical service; architectural planning and re-design; civil, structural, and environmental engineering; and providing assistance in procurement, project management, and construction oversight. Overall contract value is \$7.5M through 2018.

#### Principal

#### Subsurface Utility Investigation | Former Powertrain | Federal RACER Trust | Ypsilanti, Michigan

Directed subsurface investigation and remediation efforts at this facility since the late 1980s to present. The former ~5M SF manufacturing facility is a state led RCRA Corrective Action Site.

Site work and redevelopment activities included massive sewer studies, drawing reviews, CCTV inspections and condition assessments, internal confined space inspections, cleaning, bulk-heading and repair, utilities identification, easement development, and deed restriction preparation

Storm water management including use of modeling techniques to predict storms and size/design swales for future use, including use and planned future applicability of the on-site wastewater/storm water treatment system

Numerous presentations to MDEQ Technical and Program Support (TAPS) teams

#### Project Manager

#### Sewer Evaluation and Rehabilitation | Former General Motors | Flint MI

Performed extensive sewer investigation work at a closed former manufacturing facility including several thousand feet of storm sewer. The project included infiltration analysis, sampling, flow monitoring, CCTV work, condition assessment, cleaning, rehabilitation of sewer sections using InSitu-Form technology; and manhole repair/waterproofing using poly-urea coatings – work also required development of NPDES permits and design/construction of a swale/control device to direct water flow appropriately to or away from the sewer inlets.

#### Project Manager

#### Powerhouse Disassembly, Relocation and Re-assembly | Jefferson-Smurfit, Inc. | Monroe, MI

Managed the fast tracked performance of this critical project involving a closed paper mill in Monroe, Michigan and an expanding sister facility in Middletown, Ohio.

The project included an assessment of the existing infrastructure, all engineering work, and turn-key performance of the disassembly and transport of this 100,000 pph steam boiler.

Also included was the engineering of the reinstall and appropriate upgrades including new condensate receiver, de-ionized water softener system, and instrumentation and control package. The contract for the reinstall was put out to bid locally and construction was completed in time to meet heating season and critical process needs.



# Curriculum Vitae

## Principal

### Former Northville State Psychiatric Hospital | Northville Township | Northville, Michigan

Directed efforts at former psychiatric hospital complex including 20 structures ranging from powerhouse to 9-story main hospital building. Included asbestos surveying, building materials testing, project cost estimation, PCB mitigation, and Powerhouse and Maintenance Building decommissioning/demolition specifications, bidding, contracting assistance, and abatement/ demolition oversight. Northville, Michigan (1 M SF total).

## Principal

### Deep Sewer Turbine - Technology Development | Criptonic Energy Solutions | Detroit/Oakland County, MI and Global

Supporting a developer client with technology assessment, commercialization and deployment consulting for a renewable energy application. This technology extracts kinetic energy from moving water streams and converts it to usable power on multiple scales. Technology is applicable to large infrastructure, high-flow storm sewers typically associated with major county/city storm water systems.

## Project Manager

### WWTP Design | DTE/EES Coke Battery | Zug Island / Detroit, MI

Managed the preliminary design and construction of this 250 gpm waste water treatment system to remove phenols and mercury from the coke battery waste stream prior to discharge to a DWSD sewer outfall. Design included field reconnaissance; bench and pilot work, PFDs, P&IDs, general arrangement drawings, sequencing and permitting, construction issues included tight site boundaries, hazardous environment, and vigorous safety program. Project construction cost was \$12M.

## Engineer of Record

### Design-Build of Storm Water Treatment Facilities | Confidential | Bedford, IN

Engineer of Record for the \$4.5M design/construction of two parallel treatment systems to address PCB contaminated groundwater and storm water. First phase of the project successfully had the permanent 2,000 GPM storm water treatment system in place and operational within 6 weeks of notice to proceed. Final phase of the project included 300 GPM groundwater treatment system, building, electrical, controls, etc. Completed facilities included filtration units for multi-media, continuous backwash and carbon (50 tons), 9300 SF building, 50k gallon equalization tank, 5 kV service, PLC, and sprinklers.

## Principal

### Former NPG Site | State of Michigan | Saginaw Township, MI

Directing operation of a State of Michigan ground water discharge facility in mid-Michigan

Coordination and management of the seasonal physical/acid cleaning of 2000 feet of force main and all system equipment. This effort included CCTV inspection and condition assessment of the force main.

System modifications and installation of new equipment, all scheduled field activities, continuous response /availability for the client, significant subcontractor involvement and interaction with local WWTP personnel to meet discharge permit requirements.

Troubleshooting of system mechanical issues, and development of project team solutions and recommendation of changes (pumps, valves, piping, system monitoring equipment, etc.).

Contract budget of approximately \$300k for first 12 month term, approximately \$500k for second 18 month term, approximately \$500k for contract extension thru 2015. Additional 36 month contract award is currently pending (Contract budget sum to date \$1.3M plus \$530k pending).

## Work history

2001 – present	Principal, GHD (formerly Conestoga-Rovers & Associates), Plymouth, MI Named Principal/Vice President, 2009
1999 - 2001	Malcolm Pirnie, Inc.
1981 - 1999	O'Brien & Gere Engineers, Inc.





# Curriculum Vitae

## Other related areas of Interest

### Recognized (Certifications/Trainings)

- 40 Hour OSHA HAZWOPER trained
- E-RailSAFE trained for Railroad site work

### Published Books

- Hazardous Waste and Site Remediation: The Engineer's Perspective, 1988 Van Nostrand-Reinhold

### Papers Presented and Published in Conference Proceedings

- "Sustainability Movements Impact on Real Estate Transactions" presented at the Air and Waste Management Association Conference, Detroit, Michigan, June 2009 (with C. Meincke, J. J. Bennett, R. Plewa)
- "Biological WWTP for Coke Battery Wastewater Discharge: Design, Construction and Start-Up Challenges and Solutions" presented at AIST, St. Louis, Missouri, May 2009 (with J. L. Lamb, F. Jere, F. Kiesling)
- "Data Centers from Brown to Green: Drivers, Approaches, and Financial Mechanisms" presented at IBM's PULSE Convention, Las Vegas, Nevada, February 8-12, 2009 (with S. Vel, M. J. Bennett, K. James)
- "Strategic Remediation of Impacted Properties in Concert with Regulatory Agencies" presented at the HMCLI Hazardous Waste Conference, Washington, DC, November 1994 (with A. S. Nestor)
- "Case Study: A Site Specific Ground Water Remediation System" presented at the HAZTECH International Conference, Houston, Texas, May 1991 (with P. J. Capponi, J. F. Novotny)
- "A National Approach to UST Removal, Replacement and Retrofit" presented at the HAZTECH International 1990 Conference, Houston, Texas, May 1990 (with A. S. Nestor, T. A. Gavagan)
- "Release Detection for Existing UST Systems" presented at ENSOL 1990, Santa Clara, California, September 1990 (with K. L. Carpenter)
- "Underground Storage Tank Retrofits as an Interim Measure" presented at the HAZTECH International 1990 Conference, Houston, Texas, May 1990 (with K. L. Carpenter)
- "Design and Implementation of a Semi-Passive Ground Water Interception Trench to Remove Dissolved and Immiscible Contaminants" presented at a Conference on Petroleum Hydrocarbon and Organic Chemicals in Ground Water of the National Well Water Association, New Orleans, Louisiana, April 12-14, 1989 (with P. J. Capponi)
- "Detection, Prevention and Remediation of Leaking Underground Storage Tanks" presented at the Southeastern Conference on Ground Water Issues Association of Ground Water Scientists and

Engineers, Albuquerque, New Mexico, March 23-25, 1988 (with T. A. Jordan, D. W. Hale)

- "Underground Storage System Assessment and Remediation: A Nationwide Perspective" presented at the Annual Conference of the Water Pollution Control Federation, Philadelphia, Pennsylvania, October 4-7, 1987 (J. C. Tomik, P. J. Capponi)
- "Ground Water Monitoring at a Municipal Solid Waste Landfill" presented at a conference of the New York State Association for Solid Waste Management, Alexandria Bay, New York, October 6, 1986 (with G. D. Knowles, P. J. Capponi)
- "Underground Storage Systems: An Effective Evaluation Program" presented at the General Seminar of the Liquid Industrial Control Association, Dearborn, Michigan, September 6, 1985 (with A. J. Caracciolo, G. D. Knowles)
- "Evaluation of a Contaminated Aquifer's Restoration Potential" presented at the National Conference on Environmental Engineering of the American Society of Civil Engineers, Los Angeles, California, June 25 - 27, 1984 (with G. D. Knowles, G. W. Lee)
- "Investigation of Subsurface Discharge from a Metal Finishing Industry" presented at the Fourth National Conference on Management of Uncontrolled Hazardous Waste Site, Washington, DC, October 1983 (with G. W. Lee, G. D. Knowles)
- "Hazardous Waste Site Field Investigations: Geophysical Techniques Utilized for Cost-Effectiveness" presented at the Second Ohio Environmental Engineering Conference, Columbus, Ohio, March 1982

### Presentations

- "Lime Kiln Waste Heat Recovery: A Case Study", Air and Waste Management Association Conference, Detroit, Michigan, June 2009 (with M. L. Lamb)
- "Carbon Due Diligence", Green Building Finance & Investment Forum West, San Francisco, California March 2009
- Energy Workshop: "Who Wants to be an Energy Millionaire?", Malcolm Pirnie Technical Symposium, Hartford, Connecticut, January 2002
- "Energy Audits Identify Cost Savings", DTE Energy Seminar, Livonia, Michigan, March 2001
- "Facility Demolition and Deactivation", Western New York Symposium, Buffalo, New York, December 1992
- "Design of a Soil and Ground Water Remediation System, HAZTECH International 1990 Conference, Pittsburgh, Pennsylvania, October 1990





# Curriculum Vitae

## Roop Lutchman, P.Eng, PMP

Principal



**Qualified.** MBA, 2003; MSc., 1987; BSc (Hons), 1981

**Connected.** Member: ASME, AWWA, PEMAC, PEO, WEF, PMI

**Relevance to project.** Helping clients to minimize the cost of business through practical and effective solutions has been a focus for Roop in the 17 years he has been working in business consulting. A global perspective to projects comes as a result of work he undertook in the 2008 and 2012 WSAA international AM benchmarking projects as well as numerous projects in Canada and the USA. These included water, wastewater, public works, electric, oil & gas clients with a focus on strategy, assets, people, processes and technology. As a project director, he has successfully implemented many business consulting solutions for clients. Roop is a thought leader in the asset management field.

### Water and wastewater

#### **AM Technical Lead WRD Southern California 2015 ongoing**

Development of an asset management plan – gap analysis, develop AM roadmap, governance model and technology enablers consistent with ISO 55000 requirements.. Also, includes piloting AM concepts and the AMS/CMMS at the Leo Van de Lans Plant.

#### **Project Manager and AM Strategic Advisor Toronto Water AMS 2014 - ongoing**

Development of an asset management solution, technology enablers and AM roadmap for Toronto consistent with ISO 55000 requirements. This project has kicked off in August 2014 work is currently in progress to achieve the project objectives. Project outcomes will be AM Roadmaps (W/WW – Vertical & Linear and Storm Water assets) based on a gap analysis using GHD's TEAMQF tool, and data management standards/software solutions to support AM decision making. The City is employing a unique approach of an Industry scan of leading practices as well as engagement of a Peer review group of global municipalities in identifying relevant leading practices

#### **Project Manager & Strategic Advisor Asset Management Program | Region of York - Ongoing**

Development of an asset management solution for the Environmental Services Department to help

improve capital planning and maintenance of the Regions aging infrastructure. Project outcomes are AM Roadmaps (WW – Vertical & Linear, Waste management and Green infrastructure assets together with a supporting AM governance model) based on a gap analysis using GHD's TEAMQF tool

#### **Lead Asset Management Reviewer Asset Management Benchmarking Program | Water Services Association of Australia | 2012**

This program is done every 4 years on the behalf of the International Water Association. It covers the areas of: corporate policy and business planning, asset acquisition, asset operation, asset maintenance/rehabilitation and business support systems. For the 2012, benchmarking initiative, forty global utility participants are currently enrolled and going through the benchmarking process. Roop is accredited in the use of Aquamark benchmarking software and as a lead reviewer, provide guidance to utilities in developing their maturity scores and improvement roadmaps. Roop also facilitated workshops at the leading practices conference helping Utilities share knowledge on key asset management areas.





# Curriculum Vitae

## **Project Manager and AM Strategic Advisor**

### **Risk Management for Lake Based water System | Region of Peel | 2011 – on-going**

Development of a risk framework, risk profiles and risk mitigation plans for the Lake Based water Supply System based on leading asset management practices and the AWWA RAMCAP risk methodology. Project also included an AM gap analysis based on a gap analysis using GHD's TEAMQF tool. Outcomes were a comprehensive risk profile and validate Capital program, AM roadmap and AMP for the transmission and sub-transmission mains.

## **AM Strategic Advisor**

### **Asset Management Program | Columbus Department of Public Utilities | Ohio | 2009 – 2011**

Development and implementation of a utility wide (Water and Wastewater) asset management program aimed at helping the utility sustain service levels in a cost effective manner in the face of growth, deteriorating infrastructure and resource constraints. Phase 1 is focused on vision, development of AM philosophy/model, current situation analysis, LOS, organization redesign to support AM, training plan development, Oracle WAM CMMS support, AM education, AM roadmap and improvement Initiatives.

## **Public Works**

### **Project Manager & Strategic Advisor Asset Management Program | City of Windsor | 2010 – 2011, Phase 2 2014 - Ongoing**

Corporate AM program - current situation analysis of service delivery, asset management processes, technologies and organizational arrangements. Development of an AM roadmap and supporting Phase 2 implementation plan. AM strategy and recommendations for corporate governance. We are currently working on Phase 2 – level of service (LOS) and risk management implementation across all infrastructure classes. This work will help the City better match level of service and cost of service with funding requirements.

## **Program Manager and Strategic Advisor Corporate AM Program | City of Vaughan | 2013 - 2014**

Development and implementation of a City wide corporate asset management program aimed at helping the City sustain service levels in a cost effective manner in the face of high growth, deteriorating infrastructure and resource constraints. The City is employing a step by step phased implementation process. Phase 1 is currently in progress and includes development of the AM policy and framework, LOS, risk management, AMPs and enabling data/technology systems, organization/people arrangements:

## **Project Manager**

### **Asset Management Program | Town of Whitby | 2013**

Strategic support and guidance for asset management development focused on transportation assets. This involves development of the AM policy and framework, LOS, risk management, AMPs and enabling data/technology systems, organization/people arrangements.

## **AM Strategic Advisor**

### **Asset Management Program | Region of Waterloo | 2011 – on-going**

Strategic support and guidance for asset management development focused on transportation, airport, water/wastewater, waste management assets, facilities and fleet assets. This involves development of the AM policy and framework, LOS, risk management, AMPs and enabling data/technology systems, organization/people arrangements. These concepts are currently being piloted in four areas of the Regions operations

## **Publications**

Lutchman, R., 2011, "*Creating and Managing Sustainable Organizations*", Book, DESTech Publishers Inc., ISBN: 978-1-932078-041-9

Lutchman, R., 2006, "*Sustainable Asset Management*", Book, DESTech Publishers Inc., ISBN: 978-1-932078-47-9

Lutchman, R., 2003, "*Computerized Work Management Systems for Utilities and Plant Operations.*" Book, DESTech Publishers Inc., ISBN: 1-932078-30-4





# Curriculum Vitae

- Lutchman, R, *Risk Managed*, Water Canada Magazine March 2014
- Lutchman, R., 2003, 2004, "*Asset Management, CMOM, GASB, What Does it All Mean?*" Communicator Magazine, 2 part series
- Lutchman, R and R.M. Pickett, 2003, "*Effective Work Management, Water and Wastewater Productivity*" Public Works Magazine
- Lutchman, R. and R.M. Pickett, 2002, "*Best Practices Implementation Integrates Organization, Practices and Technology*" Public Works Magazine
- Lutchman, R., 2001, "*Selecting and implementing a low cost CMMS*" Plant Engineering Magazine
- Lutchman, R., 2000, "*How consultants can help you select, implement and maximize the performance of your Computerized Work Management System (CWMS)*" Plant Engineering Magazine
- Lutchman, R, 2005, "*Take Control of Work, Maintenance and Asset Management with a Computerized Work Management System (CWMS)*", National Manufacturing Week 2005 (Chicago USA)
- Lutchman, R, 2004, "*Applied Asset Management Conference*", Public Workshop, San Diego
- Lutchman, R and Ilmar Simanovskis, 2004, "*Asset Management is a key enabler to the Region of York's Journey to Sustainability*", Western Canada Water & Wastewater Annual Conference
- Lutchman, R., 2003, "*A Strategy for Developing Leading O&M Practices.*" WEFTEC
- Lutchman, R., 2003, "*O&M Enables Effective Asset Management.*" WEFTEC
- Lutchman, R and R.M. Pickett, 2002, "*City of Toronto's Best Practices Program Succeeds through Integrated Implementation.*" WEFTEC
- Lutchman, R and R.M. Pickett., 2002, "*How to Leverage a CWMS to Increase Productivity*", AWWA Joint Management Conference
- Lutchman, R., 2001, "*Asset Management – Do it Cost Effectively*" Synergen User Conference,
- Lutchman, R et al., 2000, "*Implementation of a CWMS at Passaic Valley Sewerage Commissioners*", WEFTEC
- Lutchman, R., 1999, "*Best Practices will dramatically improve productivity at City of Toronto's Water Supply Section*" AWWA IMTECH Annual Conference
- Lutchman, R., 1998, "*Implementing a Predictive Maintenance Program using your CMMS.*" Marcam User CMMS Conference
- Lutchman, R., 1998, "*Best Practices Uses Innovative Work Management Techniques to Reduce Operations & Management Budget*", Western Canada Water & Wastewater Annual Conference



**Role**

Quality Assurance

**Education**

BS Civil Engineering, University of Minnesota, 1993

**Registration**

Professional Engineer, MI, MN

**Qualifications**

- 22 years of experience in municipal infrastructure improvements with expertise in water system distribution and storage planning, design and construction
- Company lead for SAW Grant, and State Revolving Fund (SRF) and Drinking Water Revolving Fund (DWRf) project funding having successfully completed numerous SAW Grant applications, DWRf and SRF project plans and managed the design and construction of projects through these funding sources
- Asset management planning, analysis and management experience

**Representative Project Experience**

- Storm Water, Asset Management, and Wastewater (SAW) Grant Application, Van Buren Township, MI. Project Manager for preparation and submittal of a SAW Grant application for the Township to obtain funds for infrastructure improvement projects.
- SAW Grant Project, St. Joseph, MI Lead Engineer for administration of a \$1.1 million grant to implement an asset management plan. Work tasks included establishing an asset management policy, assisting the community to select CMMS software and establishing a GIS database of the existing assets. The asset management plan includes management of sanitary sewer and storm sewer through the grant, plus management of the water utility, water treatment plant, roads, trails, sidewalks, parks and fleet management to be locally funded.
- DPW Operational Analysis, Battle Creek, MI Project Lead for an operational analysis of the Department of Public Works including the water

and sewer departments, WWTP, water treatment plant, storm water management program and the existing asset management efforts. The analysis included an evaluation of current staffing, procedures, best management practices, along with statutory and permit compliance and billing and records keeping review. The results of this analysis formed the basis for the work plan in the SAW Grant Application submittal.

- Grant Application Assistance, Harrison Township, MI. Project Manager for preparation and submittal of SAW Grant and Coastal Zone Management Grants applications. secondary clarifiers, and the roof, as well as SCADA system implementation. Project included preparation of the SAW Grant application and administration of the subsequent \$1.6 million grant award which includes implementation of an asset management plan and design engineering for the rehabilitation of a sanitary pump station and a storm water pump station. Work tasks included identification of the community's sanitary sewer assets and condition analysis.
- SAW Grant Application, East China Township, MI. Project Manager for preparation and submittal of a SAW Grant application to obtain funds for infrastructure improvement projects.
- Oxford Township Water System Improvements, Oakland County Water Resources Commissioner, MI. Project Manager for hydraulic modeling of the Oakland Township water distribution system to support WRC in meeting requirements for the General Plan preparation. Evaluated capital improvement projects, provided recommendations.
- Water Reliability Study, St. Clair River Sewer and Water Authority, East China MI. Project Manager for a water system reliability report that included distribution systems serving China and East China Townships. Project created a system model based on GIS data including water treatment plant, one ground storage tank and two elevated storage tanks in the system. Established evaluation criteria and recommended corrective actions to address the system deficiencies identified.



- Continuing Engineering Services for Water and Wastewater Plants, St. Clair River Sewer and Water Authority, MI. Client Representative providing as-needed services for China and East China Townships' water and wastewater plants.
- Continuing Engineering Services, Charter Township of Van Buren, MI. Client Engineer since 2001 for Van Buren Township, a community with over 144 miles of 6-inch to 20-inch diameter water main. Responsible for design and construction management of municipal infrastructure projects, maintaining development standards, and providing technical support for Township representatives on water and sewer committees. Completed review of over 100 water, sewer, storm and pond design projects for compliance.
- Continuing Services, Charter Township of East China, MI. Client Engineer responsible for various infrastructure improvement projects including changing the process of the water plant, and replacing the comminutor at the WWTP. Perform private development reviews for compliance with municipal standards and make recommendations on development approval to the Planning Commission.
- Continuing Engineering Services, Harrison Township, MI. Client Engineer assisting with infrastructure projects including canal dredging and sanitary sewer and water improvements. Review proposed developments and attend Planning Commission/Township Board meetings. Recent projects have included Bayhaven and Beachwood pump stations, and Lakeshore Bridge Preliminary Engineering.
- Water Tower Feasibility Study, Van Buren Township, MI. Project Manager for a feasibility study to determine the potential cost savings associated with peak shaving and potential locations for an elevated storage tank. The analysis was performed as a follow-up to the Water System Master Plan completed a few years prior. Results of the report ultimately led to design and construction of the water tower.
- DWRP Water Tower and Transmission Mains, Van Buren Township, MI. Project Manager for design of a 2-MG elevated storage tank and over five miles of transmission main. Included a new connection to the DWSD system, a pressure reducing station, and a 1,500-foot long directionally drilled water main crossing Belleville Lake to provide necessary pressure and volume to meet customer needs and provide fire protection. The storage enables the Township to control peak demands and realize 27% reduction in their DWSD water rates. Recognized as 2010 Project of the Year Award by the American Public Works Association – MI Downriver Chapter.
- Irwin Drive Water Main, Harrison Township, MI. Project Manager for the design and project administration of 7,200 linear feet of 16-inch water main, a DWSD meter pit and pressure reducing facility.
- Water System Master Plan and Storage Tank, Harrison Township, MI. Project Manager for a water master plan and storage tank feasibility analysis to reduce wholesale water costs from DWSD by controlling the community peaking factor. The project included creation of a WaterGEMS™ model of the system using existing GIS and calibrating the model to use in locating and sizing community water storage facilities. The Township implemented our recommendation to construct a storage tank. Provided technical advice and guidance throughout the design-build of the Township's water storage tank and control system. Served in this role to protect the interests of the community and to assist in establishing a process for testing the control system during off-peak season.
- Water Master Plan Update, Van Buren Township, MI. Project Manager for the update to the Township's Water System Master Plan to reflect current conditions following construction of elevated storage. Prepared the initial 2004 master plan.



# Curriculum Vitae

## Mark Seastead

Asset management software



**Qualified.** MBA Coursework, Kennesaw State University; MS (1996), Resource Planning, Missouri State University; BS (1994), Geology, SUNY Fredonia; GIS (ESRI ArcGIS Server & Desktop, ArcSDE); CMMS – Azteca Cityworks AMS Server Administration, Desktop Administration, Storeroom, DataPump; MS SQL Server 2008

**Connected.** Urban and Regional Information Systems Association; Geospatial Information and Technology Association

**Relevance to project.** Mark is the Group Manager for GHD's Knowledge and Information Management Solutions (K&IMS) group. He has spent more than 18 years as a geographic information systems (GIS) professional, with experience with local/county government operations, information technology, GIS data collection and modeling, asset management, transportation, water/wastewater utilities, as well as environmental and regulatory compliance. He is an innovative consultant, who has provided leadership and project management geodatabase design and GIS/IT strategic planning and EAMS selection and implementation.

### Technical Consultant

#### Port of San Diego | San Diego, California, USA

*Asset Management Program.* As Technical Consultant led the data management component associated with the inventory and development of an asset management program for the facilities and park assets owned by the Port of San Diego. Responsible for the delivery of inventoried data, migration from field data into SDSFIE GIS data format, conceptual design of a GIS interface for EAMS and work management in the field.

### Technical Consultant

#### Union County Public Works | Monroe, North Carolina, USA

*Asset Management Program - CMMS Selection.* As Technical Consultant led the requirements gathering associated with the selection and implementation of an EAMS for Union County. Responsible for the overall selection of an enterprise asset management system (EAMS) including documenting requirements, functional specifications, assistance with RFP development, system selection, licensing and contract negotiations.

### Technical Consultant

#### Water Replenishment District | Long Beach, California, USA

*Asset Management Program - CMMS Selection.* As Technical Consultant led the requirements gathering associated with the selection and implementation of an EAMS for WRD. Responsible for the overall selection of an enterprise asset management system (EAMS) including documenting requirements, functional specifications, assistance with RFP development, system selection, licensing and contract negotiations.

### Project Director

#### Capital Region Water | Harrisburg, Pennsylvania, USA

*Work and Asset Management (WAM) Program.* As a Project Director oversaw needs assessment and implementation plan for installation and deployment of EAMS for the organization's water and sewer infrastructure. Responsible for the overall project delivery including business process analysis, configuration design, deployment, training and support.





# Curriculum Vitae

## **Project Director**

### **Charlotte Water | Charlotte, North Carolina, USA**

*Work and Asset Management (WAM) Program.* As a Project Director and Senior Technical Consultant, involved in asset management framework development, business process and workflow analysis, and Azteca Cityworks installation, configuration, testing, and deployment. Cityworks Server AMS and PLL 2014 are currently in use. Roles and responsibilities include:

- facilitating business process analysis workshops
- facilitating user testing and acceptance workshops
- reviewing asset information management systems employed by different business units
- designing and populating asset registers
- adapting and customizing system interfaces based on feedback from business process and testing sessions
- coordinating mobile equipment setup, testing, and deployment
- training and mentoring management and field personnel
- coordinating the annual inventory reconciliation with a new inventory system
- developing and deploying custom reports
- managing and supporting a multi-phased Cityworks Server AMS go-live event during the month of January, 2012
- providing post go-live Cityworks and mobile fleet support
- managing and supporting Cityworks upgrades to 2013 R1 and 2014 SP2
- facilitating workflow design and configuration workshops for deployment in Cityworks Server PLL
- adapting and implementing workflows for Cityworks Server PLL
- managing and supporting a multi-phased Cityworks Server PLL go-live event beginning in April 2015

## **Project Manager**

### **Metro Wastewater Treatment Plant | Columbia, South Carolina, USA**

*Implementation of GIS Based EAMS -* Project manager in charge of overseeing the successful implementation of a GIS based EAMS within the plant environment. Responsibilities included management and deployment of a small-scale pilot, facilitating business process workshop, asset register and geodatabase development and validation, EAMS system design and configuration, end-user training, and go-live support.

## **Project Director**

### **City of Fargo | Fargo, North Dakota, USA**

*CMMS Implementation -* Project Director of the CMMS implementation for the City's Public Works department, with responsibilities that included CMMS software selection, business process analysis and development, asset data collection planning, configuration design, GIS planning workshops, CMMS configuration, training, report development, and system integration design.

## **Project Director**

### **Charlotte Area Transportation System (CATS) | Charlotte, North Carolina, USA**

*Implementation and integration of a GIS based EAMS -* To help CATS comply with MAP-21 requirements for facilities management asset management system, which is used to manage work for the division's buildings, light rail stations, and bus stops. This project requires development of a CMMS capable of tracking and managing work for 13 facilities and all light rail platforms and bus stops throughout Mecklenburg County. The WAM application was deployed using ArcGIS Server 2010, ArcSDE 10.1 and Azteca AMS Server 2013R1 (now version 2014) with servers running IIS. Responsibilities include leading the implementation of the asset management system, developing business process workflows, using the ESRI BISDM template to design the asset registry geodatabase, system design and configuration, developing reporting requirements, and leading training efforts.



## Thomas Traciak

### Role

Asset Management/Financial Work Plan

### Education

Bachelor of Business Administration in Accounting from the University of Michigan

Masters of Public Policy and Administration from Michigan State University.

### Qualifications

Thomas Traciak is a Principal with H. J. Umbaugh & Associates, which provides financial advisory services to local governments, municipal and not-for-profit utilities, and a variety of other governmental clients in the Midwest. He is the former president of ACI Finance, Inc. in Mason, MI, a company he formed in 1996.

Tom has worked in accounting, budgeting and finance in both the public and private sectors for more than 30 years. He has served about 300 local units of government throughout Michigan with capital financings since 1988. His work has included bond issues, grant funding, tax increment finance, rate studies and lease-purchase agreements. He expertly works with governments experiencing difficult credit and revenue support situations, with a concentration in water and sewer utilities. He is based in Umbaugh's Lansing office.

### Representative Project Experience

Sit Allegan	Goodrich	Port Hope
Alma	Hackley	Potterville
Auburn	Harbor Beach	Prescott
Auburn Hills	Hillsdale	Ravenna
Bancroft	Honor	Reading
Bay	Ithaca	Rochester
Beaverton	Jonesville	Rogers City
Belding	Kingsley	Sandusky
Bellevue	Lake City	Sanford
Beulah	Lake Odessa	Sanilac
Breckenridge	Leslie	Saugatuck
Brown City	L'Anse	St. Clair

Buchanan

Caledonia

Camden

Caro

Carson City

Cheboygan

Chesaning

Clare

Clarkston

Clinton

Clio

Concord

Constantine

Dansville

Dexter

Dimondale

Door Leighton

Durand

Emmett

Evart

Forestville

Fowlerville

Franklin

Gladwin

Lexington

Linden

Litchfield

Luce

Lyons

Madison Heights

Mason

Mendon

Manton

Minden City

Montague

Montrose

Multi Lakes

Munising

Newberry

New Lothrop

North Kent

Onsted

Orchard Lake

Owosso-Caledonia

Ovid

Pewamo

Pinckney

Pigeon

St. Louis

Sterling

Stanton

Stockbridge

Sturgis

Sunfield

Suttons Bay

Sylvan Lake

Tecumseh

Three Oaks

Three Rivers

Uby

Vassar

Waldron

Webberville

West Branch

White Cloud

White Pigeon

Wolverine Lake

Williamston

Woodland

Zilwaukee



**Role**  
Training

**Education**

Masters coursework in Civil Engineering, Wayne State University  
BS Civil Engineering, Wayne State University, 1981

**Registration**

Professional Engineer, MI

**Certifications**

- National Association of Sewer Service Companies (NASSCO) Certified Trainer Pipeline Assessment and Certification Program (PACP) Manhole Assessment and Certification Program (MACP) Lateral Assessment & Certification Program (LACP)
- MDEQ Construction Site Storm Water Management
- MDEQ Soil Erosion and Sedimentation Control
- ACI Concrete Field Testing Technician Grade 1
- MDOT Concrete Paving/Bridge and Bituminous Paving, Certificate of Training

**Qualifications**

- 32 years of experience managing construction of pump stations, large diameter sewer, force main, water main and road improvements
- Experienced working with a range of construction methods and selecting best methods to address site constraints

**Representative Project Experience**

- Stormwater Asset Management and Wastewater (SAW) Grant Asset Management Plan, City of Allen Park, MI. Construction Group Manager responsible for inspections using the NASSCO Manhole Assessment and Certification Program (MACP).
- SAW Grant Application Project, Harrison Township, MI. Project Engineer responsible for oversight of field identification of the community's sanitary sewer assets and condition analysis related to the preparation of the SAW Grant application to implement an asset management plan per MACP requirements.

- SAW Grant Application Project, Battle Creek, MI. Project Engineer responsible for oversight of the field identification of the community's water, wastewater, and storm water system assets and condition analysis in 2015 related to the preparation of the SAW Grant application to implement an asset management plan per MACP requirements.
- NASSCO Pipeline Assessment Certification Program (PACP) Training, Oakland County Water Resources Commissioner, MI. Trained County employees on the coding necessary to identify defects. Involved in overseeing pipeline assessment to evaluate sewer pipe condition in a standard and consistent manner and manage TV inspection results.
- 2011 CCTV Inspections, Oakland County Water Resources Commissioner, MI. Providing oversight and QA/QC on CCTV inspections of the Southfield Drain No. 6, Army Interceptor and Lawson Drain. The three systems included 53,415 linear feet of pipe ranging in size from 12 to 96 inches.
- Eight Mile Pump Station Rehabilitation, Oakland County Water Resources Commissioner, MI. Engineer's Representative for construction of 130-cfs pump station rehabilitation. Coordinated shop drawing processes. Mechanical, electrical, structural and architectural improvements were undertaken. Evaluated change orders, pay estimates, schedules, and other items with Owner's Representative.
- Maintenance Access Path and Recreational Trail, Canton Township, MI. Resident Engineer for 15,000-foot-long gravel access path for sewer maintenance activities that doubles as a trail. Designed to support periodic heavy truck loading, the trail runs from the Lower Rouge River to Sheldon Road within the ITC corridor, crossing two Wayne County drains and four Wayne County roads and requiring three signalized pedestrian crossings. Providing field engineering, administration and staking.



- Relief Sewer, Phase I, Canton Township, MI. Resident Engineer for Phase I of a program to design and construct relief sewers for ultimate development. The 8,000-foot segment of 42-inch sewer travels along Michigan Avenue and into the Lower Rouge Parkway, 267 acres of undeveloped land owned by Wayne County. Open cut construction methods were used with boring for wetland, drain and road crossings. Wetland permits were obtained and construction restrictions clearly defined in the plans and specifications. Tree clearing was limited and restoration plantings were developed.
- Relief Sewers for Ultimate Development, Canton Township, MI. Resident Engineer for a four-phase program to design and construct relief sewers for ultimate development. The 8,000-foot segment of 42-inch sewer travels along Michigan Avenue and into the Lower Rouge Parkway, 267 acres of undeveloped land owned by Wayne County. Open cut construction methods were used with boring for wetland, drain and road crossings.
- Charter Township of Canton, MI. Field Engineer for municipal infrastructure and private development projects. Developed requirements for private road inspection program along with supervision of inspectors/technicians on many residential, commercial and municipal projects.
- Allen Park District 1 Storage Tunnel, City of Allen Park, MI. Construction Group Manager for SSO storage tunnel project.
- Wet Weather Sewer Capacity Improvements, Allen Park, MI. Planning, design and construction for system improvements to address wet weather excess flows caused by local system inflow/infiltration and downstream interceptor surcharging. Phase 1 included sewer rehabilitation and construction of a wet weather pump station. Phase 2, currently under construction, consists of large diameter storage/relief sewers installed using tunneling methods. Alignment for the tunnel sewer was coordinated with the proposed greenway channel alignment for future Ecorse Creek improvements in the vicinity of I-94.
- PC-792 Biosolids Dryer Facility, subconsultant to NEFCO, Detroit Water and Sewerage Department (DWSD), Detroit, MI. As part of a 23-year design-build-operate contract for a new biosolids dryer facility, Wade Trim has served as the lead designer providing design and survey services, regulatory permitting, construction engineering and QA/QC inspection. The facility will treat up to 440 dry tons per day in a process where liquid sludge from DWSD's WWTP is dewatered and dried through a thermal heating process creating a high grade Class A pelletized fertilizer material that can also be used as fuel in large furnaces such as cement kilns.
- Glenis Avenue Water Main Lining, City of Taylor, MI. Construction Group Manager for 2,500-foot CIPP structural lining of 6-inch water main. The alternative technique minimized impact on residential area and reduced soil erosion and restoration work. Project performed as log job saving engineering design, field engineering and construction inspection costs.
- Water Main Rehabilitation, City of Dearborn Heights, MI. Construction Group Manager for 4,700-foot water main rehabilitation using pipe bursting and open cut construction.
- Alice Ave. and Danforth Ave. Water Main and Road Reconstruction, City of Hamtramck, MI. Construction Group Manager for abandonment of 3,400 linear feet of 6-inch water main and installation of new 8-inch water main to improve water pressure, quality and fire safety. Road reconstruction involved removal of 3,400 linear feet of road and placement of new wider concrete road to provide more space for on street parking and increase maneuverability for residential, safety, and school bus traffic.
- Dearborn CSO Phase 1, Contracts 1 & 2, City of Dearborn, MI. Resident Engineer for Disinfection Facilities for CSO 13, 14A, and 14B and Capture Shaft C2 CSO 13. Resident Engineer for Contracts 1 and 2 of a 3-phase CSO control program. Construction consisted of a disinfection facility servicing 2 capture shafts including a chemical storage building, and a 116-foot diameter shaft at the Northeast corner of Greenfield Village.



## Mert B Muftugil, PE

### Condition assessment



**Qualified.** Virginia Tech. MS Civil Engineering (Wastewater Focus). 2012.

Cornell University. M.Eng. Engineering Management. 2002.

Technical University of Istanbul. BS Environmental Engineering. 2001.

Registered Professional Engineer: MD

**Connected.** Water Environment Federation, American Water Works Association, Society of American Military Engineers

**Relevance to project.** Mert has more than eight years' experience and has served several key leadership roles on GHD Asset Management and Management Consulting projects. He has assisted utilities implement and/or improve their asset management practices. He has worked closely with clients to identify their unique skills, strengths, and challenges with respect to the implementation or improvement of the asset management theories.

#### **Engineer, Asset Management**

##### **Improvement Plan**

##### **Madison Metropolitan Sewerage District**

##### **| Madison, Wisconsin, USA**

Senior management consultant working on two tasks to support the development of the Asset Management Improvement Plan for the Madison Metropolitan Sewerage District (MMSD). First task is the development of the Sustainable Asset Management Framework (SAMF) that includes the development of the asset management (AM) policy; organization structure review to support AM; development of AM plans framework; strategies to determine failure modes, asset condition, life expectancies, and replacement costs; level of service and performance framework; risk management framework; AM information systems development/implementation approach; change management and training. Second task includes assistance to MMSD to develop the condition assessment framework for field implementation that includes introduction of new procedures and making use of existing asset condition data.

#### **Engineer, Utility-wide Master Plan**

##### **Washington Suburban Sanitary**

##### **Commission | Laurel, Maryland, USA**

Engineer working on development of a high-level enterprise wide master plan focusing over a 30-year planning period based on determining enterprise wide investment requirements and identifying potential funding sources. As part of the effort, a risk exposure matrix has been created for 420 facilities and processes and investment requirements identified with the client so appropriate budget allocations can be made in advance. Organization wide improvement initiatives have been developed in conjunction with the main business drivers of WSSC. This project also included the development of as-is business processes and their comparison to National Association of Clean Water Agencies (NACWA) business processes as templates for the to-be business processes. This review provided the foundation for asset management improvement program initiatives that touched on major initiatives such as development of levels of service, condition assessment, and risk assessment programs.

#### **Engineer, Asset Management and**

##### **Capital Improvement Plan**

##### **Rockland County Sewer District No. 1 |**

##### **Rockland County, New York, USA**

Engineer working on the development of District's Asset Management Plan (AMP) and the Capital Improvement Plan (CIP). The project covers both the treatment plant and the collection system composing of interceptors and pumping stations.





The AMP consists of the development of the asset inventory, asset criticality & condition assessments, and the associated ranking & prioritization. The CIP includes a schedule for the recommended projects, along with estimated costs and funding sources.

#### **Engineer**

##### **Washington Suburban Sanitary**

##### **Commission | Laurel, Maryland, USA**

*Piscataway Wastewater Treatment Plant Asset Management Plan (AMP) Development.* The AMP development approach used is based on International Infrastructure Management Manual's 10-step process, which is also used by US EPA. The Piscataway WWTP AMP is part of a Utility Master Plan (UMP) development program for WSSC, and aims to identify the levels of service for the WWTP, and the corresponding combination of renewal and rehabilitation needs, capital investment requirements, and operations & maintenance, and inspection strategies that need to be implemented in order to meet the service levels that either are enforced by regulating agencies or expected by customers over a 30-year planning period. The investments such as rehabilitations or replacements are applied and forecasted with the implementation of optimized decision making logic. To support the development of the asset management plans, multiple projects focusing on practices and procedures are being implemented, including defining condition assessment protocols, identifying levels of service, determining criticality (business risk exposure), capital expenditure validation, and reliability-centered maintenance among others.

#### **Engineer**

##### **Washington Suburban Sanitary**

##### **Commission | Laurel, Maryland, USA**

*Business Risk Exposure Policies and Guidelines Development.* Engineer working on the development of procedures to be used to determine business risk exposure (BRE) score for buried and vertical infrastructure assets. The BRE score is a function of probability of failure (POF), consequence of failure (COF) and mitigation factors. COF scores were calculated for buried infrastructure using an algorithm that is weighted

across the triple bottom line (TBL) approach for social, financial, and environmental consequences. Different attributes for these elements have been identified and quantified at the individual pipe segment level in order to generate COF scores for each pipe. For example, the attributes of interest for water pipes were type of critical customers affected upon failure (e.g. hospitals, nursing homes, schools), number of customers affected upon failure, type of the road the pipe is under, proximity of the pipe to buildings, railroads, and environmentally sensitive areas such as surface waters, cost of failure (includes repair cost and other applicable cost items).

#### **Asset Management Task Leader**

##### **City of Annapolis Department of Public Works | Annapolis, Maryland, USA**

##### *Water and Sewer Buried Assets Evaluation.*

Currently serving as an asset management project task leader for Annapolis' asset evaluation effort. The intent of the project is to determine the state of the City's water and sewer assets, identifying appropriate capital and operations and maintenance asset strategies and procedures, review existing and potentially available tools for managing and analyzing asset data, and developing integration links between asset data in different systems so that improved decision making can result.

#### **Published.**

- "Development of an Asset Management Plan for the Piscataway WWTP of WSSC"
  - 2011 WEA Annual Meeting, Concord, NC.
  - 2011 CWEA Tri-Con, Ocean City, MD.
  - 2011 VWEA Water JAM, Virginia Beach, VA.
- "Condition Assessment of Water Distribution System of WSSC", 2011 WEA Annual Meeting, Concord, NC.
- "Development of a Condition Assessment Protocol to Support Asset Management Planning for the Water Distribution System of the Washington Suburban Sanitary Commission", 2012 CWEA Tri-Con, Ocean City, MD.
- "The Role of Water and Wastewater Infrastructure Valuation In Utility Mergers and Acquisitions", 2014 CWEA Tri-Con, Ocean City, MD.



**Role**

Planner/Geographic Information Services

**Registration**

BA Geography, Calvin College, 2000

**Registration**

American Institute of Certified Planners, 2005

**Qualifications**

- 15 years of experience in planning and zoning including training workshops for Planning Commissioners and other community officials
- Understands the myriad of issues and challenges facing communities within Michigan
- Serves as the day-to-day Planner for three communities providing various projects and services including site plan reviews, zoning appeal requests and rezoning reviews
- Provides GIS mapping and other support

**Representative Project Experience**

- Sanitary Sewer I/I Investigation, City of Southfield, MI. GIS Support for conducting a sanitary sewer I/I investigation for the City of Southfield. Prior to fieldwork, reviewed existing GIS information and prepared field maps for CCTV inspection, manhole inspections, and smoke testing. Converted the results of the inspections into a GIS layer and database documenting such information as manhole size, rim/invert distance, condition of cone, and I/I defects. The GIS layer and database was then used to create a variety of deliverables.
- Evaluation of CSO Control Alternatives for the City of Detroit (DWSD), MI. Provided GIS support for the evaluation of the Upper Rouge Tunnel Alternative, a proposed 15 mile long, 12 foot diameter transport and storage tunnel connecting outfalls to the existing Detroit Wastewater Treatment Plant. Collected and prepared a variety of GIS products to aide in the evaluation of the tunnel, including the development of a topographic profile, tunnel stationing, identification of major crossing points, and the preparation of GIS based display graphics.

- Parcel GIS Development and Updates, Van Buren Township, MI. GIS Support on a program to update Van Buren Township's digital tax parcels and base map information, originally created by Wayne County. A customized version of ESRI's ArcGIS Land Parcel Data Model was selected as the template to design and store parcel information for the Township. Worked on the development of digital tax parcels using scanned and georeferenced quarter-section plat books. Since the completion of the project, has provided ongoing updates to the GIS system as needed.
- Utility GIS/GPS Mapping Project, Brownstown Township, MI. GIS Support on a program to develop highly accurate water distribution and sanitary sewer collection GIS utility networks for Brownstown Township. Worked on the creation of water and sanitary sewer pipe GIS layers through a combination of GPS data points and paper utility mapping records. Also assisted in the creation of water and sewer map books.
- Hydrologic/Hydraulic Study of Woodhaven Creek Watershed, City of Fort Worth, TX. GIS Support for a hydrologic and hydraulic study of a three-square-mile watershed with numerous storm drain systems discharging into Woodhaven Creek. Provided GIS support and base data layers for the creation of a HEC-HMS hydrologic model representation of the watershed. Worked on the development of various GIS-based maps to represent HEC-HMS simulations of peak flows for the 2-, 5-, 10-, 25-, 50-, 100-, and 500-year, 24-hour design storm events.
- Flint Riverfront Restoration/Hamilton Dam Study, City of Flint, MI. Project Planner in the development of a master plan for the restoration of the Flint River in the vicinity of the Hamilton Dam near Downtown Flint. Worked on various planning tasks including GIS data development, mapping/graphics, assessment of existing riverfront conditions, assessment of previous riverfront studies, stakeholder interviews, public participation and community engagement activities, and conceptual design.



- Milford Community Master Plan, Village of Milford and Charter Township of Milford. Member of a multi-disciplined planning team involved in the preparation of a joint master plan for the Village of Milford and Milford Township in Oakland County. Involved in all phases of the multi-year planning process, including GIS data development and mapping, community profiling, the facilitation of community forums and open houses, visioning sessions, strategic planning, and conducting a capabilities audit for each community. Task lead for demographic analysis including a study of community lifestyle and spending preferences. Utilizing advanced GIS software (CommunityViz), led the process of evaluating several future land use alternatives through a residential and non-residential build-out analysis.
- Huron County, MI. Technical Lead for updating the County's digital tax parcel layer and database in ArcGIS format. Using CAD based records of splits and combinations, updated the digital GIS parcel layer and database for all 28 Townships within the County, totaling more than 30,000 parcels. The project also included the preparation of new FEMA flood insurance rate maps for the entire County.
- Oakland County Trails Master Plan, MI. Project planner and GIS technician for a Trails Master Plan for Oakland County. Key aspects of the project included the assessment of critical gaps in the County-wide trail network and the identification and evaluation of potential trail routes to bridge the gaps. Involved in numerous GIS tasks throughout the project including the development and analysis of alternative trail routes and graphics to support the recommendations.
- Recreation Master Plan, City of Plymouth, MI. Project Planner.
- Master Plan, City of Durand, MI. Project Planner for the preparation of a new Master Plan to accommodate and attract new growth and development while preserving the City's unique heritage and small town character. Facilitated citizen involvement through a series of community visioning sessions, workshops, and a "Durand Master Plan" project web site that helped to garner citizen support. Assisted in existing conditions assessments, GIS analysis, and future land use scenario development.
- Planning Services, Ash Township, MI. Project Manager for providing day-to-day planning services for this rural but growing Township. Services include the review of development proposals such as site plan applications, special land use applications, and rezoning proposals. Also provides general planning and zoning assistance to the Planning Commission including meeting attendance.
- TIFA Business Improvement Program Development, City of Dearborn Heights, MI. Assisted the Dearborn Heights Tax Increment Finance Authority in development of a new matching grant program for business improvements. Researched successful programs in other communities, established program goals, eligibility requirements, selection procedure and application materials.
- Alternative Energy Zoning Amendments. Developed alternative energy zoning ordinance amendments for numerous communities throughout Michigan, including the cities of Gibraltar and Three Rivers and the townships of Ash, Gaines, Garfield and Leelanau. Zoning amendment language addressed such issues as wind energy, solar energy and biomass.
- Zoning Overlay, City of Allen Park, MI. Project Planner for development of a zoning overlay for the area surrounding the City offices.
- City of Linden Planning Services, MI. Project Manager for providing day-to-day planning and zoning services for this historic and growing community. Services include weekly office hours, Planning Commission meeting attendance, and review of development proposals.

## Role

Field Technician

## Education

BS Construction Management and Surveying,  
Eastern Michigan University, 2008

## Certifications

- 24 hour HAZWOPER Certification
- ACI Certified Concrete Field Testing Technician
- Michigan Certified Aggregate Technician
- Michigan Certified Bituminous Laboratory Technician, Level 1
- MDEQ Soil Erosion and Sedimentation Control Inspection
- MDEQ Storm Water Management, Construction Site
- National Association of Sewer Service Companies (NASSCO) Pipeline Assessment and Certification Program (PACP) Certified User Manhole Assessment and Certification Program (MACP)

## Special Training

- PASER for Asset Management
- Confined Space Training
- Roadsoft, Primavera data collection software
- MIOSHA 510 Occupational Safety and Health Standards for Construction Industry

## Representative Project Experience

- Allen Park SSO Tunnel and Pump Station, City of Allen Park, MI. Inspector for a 0.86-mile sanitary sewer overflow (SSO) storage tunnel sized to store 1.34 MG of wet weather flow that is lifted through a new 8.4-cfs submersible dry weather/wet weather pump station and force main, and ultimately to an existing trunkline sewer.
- 2006-2014 Infrastructure Program, City of Plymouth, MI. Inspector for road reconstruction, storm sewer and water main on various residential and business district streets.
- Stormwater Asset Management and Wastewater (SAW) Grant Asset Management Plan, Harrison Township, MI. Construction Technician responsible for inspections using the NASSCO Manhole Assessment and Certification Program (MACP).

- US-24 Mast Arm Traffic Signal Installation, City of Taylor, MI. Inspector for installation of 16 new mast arm design traffic signals along US-24. The electrical supply was underground wiring, and inspectors coordinated with electricians to verify the amount of conduit for the new traffic signal and electrical system. Improvements to adjacent sidewalks, ramps, and pushbuttons were constructed to comply with ADA standards.
- 2012-2013 As-needed Surveying Services, City of Jackson, MI. Performed inspections, construction staking and topographical survey.
- M-85 - I-75 to Sibley, MDOT, MI. Inspector for construction engineering and inspection services.
- Canton Sewer Relief Project Phase 2, Canton Township, MI. Inspector for construction of relief sewers in floodplain and environmentally sensitive areas along the Rouge River.
- Gulley Road Reconstruction, City of Dearborn Heights, MI. Inspection of storm sewer improvements.
- Ecorse/Monroe Traffic Signals, City of Taylor, MI. Inspector for intersection widening and overlay with hot mix asphalt paving, aggregate base, storm sewer, soil erosion controls, cold milling, integral curb concrete base course, slope restoration, traffic signal reconstruction and optimization. The construction of traffic signals at the intersection incorporated ADA-compliant facilities, including detectable warnings and compliant ramp slopes.
- Beech Daly/Belledale Traffic Signals, City of Taylor, MI. Inspection of traffic signal installation, sidewalk and road improvements.
- US-24 Reconstruction, City of Taylor, MI. Inspector for the pouring of concrete on an approach to a new business on Telegraph Road.
- Hampton Square Condos, Brownstown Township, MI. Inspection of sanitary, storm and water main.





**Role**

Field Technician

**Education**

BS Civil Engineering, University of Detroit Mercy, 2012

**Registration**

- National Association of Sewer Service Companies (NASSCO) Pipeline Assessment and Certification Program (PACP) Certified User Manhole Assessment and Certification Program (MACP)

**Qualifications**

- Completed a nine-month contract working on Capital Improvement Projects for the City of Ann Arbor's Project Management Services Unit
- Knowledgeable in MDOT LAP and other state agency requirements

**Representative Project Experience**

- SAW Grant Application Project, Harrison Township, MI. Technician for field data gathering for identification of the community's sanitary sewer assets and condition analysis per MACP requirements related to the preparation of the SAW Grant application to implement an asset management plan.
- SAW Grant Application Project, Battle Creek, MI – Technician for field data gathering in 2015 for identification of the community's water, wastewater, and storm water system assets and condition analysis per MACP requirements related to the preparation of the SAW Grant application to implement an asset management plan.
- Stormwater Asset Management and Wastewater (SAW) Grant Asset Management Plan, Harrison Township, MI. Construction Technician responsible for inspections using the NASSCO Manhole Assessment and Certification Program (MACP).
- Park Avenue Resurfacing, City of Allen Park. Provided inspection for the project completed in October 2015.

- Ecorse Road Streetscape, Allen Park DDA, MI. Field Engineer and Inspector for project that included sidewalk, drainage improvements, tree plantings, and site furnishings. Performed daily inspection services and concrete testing for the concrete planter boxes.
- Saginaw Street Corridor Signal Improvements, City of Lapeer (in cooperation with MDOT), MI. Performed inspection and concrete testing for construction of traffic signal upgrades and concrete curb, gutter, sidewalk, and ramps on Saginaw Street at Genesee Street and at McCormick Street, and on Genesee at Court. All pedestrian push buttons and sidewalk ramps were constructed within MDOT and ADA requirements.
- 2013 Ramp and Sidewalk Repair Project, City of Ann Arbor, MI. Project Engineer who assisted with the project management, community outreach, and inspection for the project.
- Belmont Sanitary Sewer Extension, City of Ann Arbor, MI. Managed the construction of 198-foot sanitary sewer extension on Belmont Road. In accordance with the project and City specifications, worked with paving material suppliers to approve concrete and asphalt mix designs. Using FieldManager, reviewed the project quantities and generated payments to the contractor.
- 2014 Sewer Lining Project, City of Ann Arbor, MI. Design Engineer who worked with Ann Arbor Field Operations and Systems Planning Unit to draft and design sewer lining limits. Assisted the Project Manager in creation of bid documents and construction contract.
- Stone School Road Reconstruction, City of Ann Arbor, MI. Project Engineer filling multiple roles during construction. Used soil boring data and land survey information to draft existing road cross sections to be included in the MDOT and City of Ann Arbor plans. Assisted with community engagement scheduling public meeting and developing the presentation.





### Role

Field Technician

### Education

BS Civil and Environmental Engineering, University of Detroit Mercy, 2012

BS Chemistry, Madonna University, 2006

### Certifications

- National Association of Sewer Service Companies (NASSCO) Pipeline Assessment and Certification Program (PACP)
- ACI Concrete Field Testing Technician Grade 1
- Michigan Concrete Technician Level 1

### Special Training

- OSHA Confined Space Entry Course. Supervisor, Entrant and Attendant
- Materials Acceptance Process Training

### Representative Project Experience

- Stormwater Asset Management and Wastewater (SAW) Grant Asset Management Plan, City of Allen Park, MI. Construction Technician responsible for inspections using the NASSCO Manhole Assessment and Certification Program (MACP). Certified user.
- Stormwater Asset Management and Wastewater (SAW) Grant Asset Management Plan, Harrison Township, MI. Construction Technician responsible for inspections using the NASSCO Manhole Assessment and Certification Program (MACP). Gathered field data for identification of the community's sanitary sewer assets and condition analysis per MACP requirements related to the preparation of the SAW Grant application to implement an asset management plan.
- SAW Grant Application Project, Battle Creek, MI. Technician for field data gathering in 2015 for identification of the community's water, wastewater, and storm water system assets and condition analysis per MACP requirements related to the preparation of the SAW Grant application to implement an asset management plan.

- 2012 Sanitary Sewer and Water Main Improvements, City of Taylor MI. Inspector and Administrative Engineer for day-to-day operations for on-site pipe bursting of 8- to 12-inch water main with C900 pipe. Developed spreadsheet analyzing the daily operations and assisted in monthly cost estimations.
- East China Wastewater Treatment Plant, East China, MI. Construction administration with facilitating shop drawing process.
- M-24 Rehabilitation, MDOT, MI. Field Engineer for M-24 Resurfacing from Harmon to Goldengate.
- M-85, I-75 to Sibley, MDOT, MI. Field Engineer providing construction engineering and inspection.
- GWK Video Inspection, Oakland County Water Resources Commissioner, MI. Project Engineer responsible for reviewing video inspections for eight branches of the George W. Kuhn Drain. Developed spreadsheet that identified defects per segment, provided ratings and recommended rehabilitation and probable cost.
- Fair Oaks Drive and Suffolk Court Water Main Improvements, Canton Township, MI. Construction inspector for pipe bursting ductile iron pipe.





# Curriculum Vitae

## Dan Kribs

### Engineering Technician

**Qualified.** Certificate of Completion, Construction Trades course, Hill Academic and Vocation Center

**Relevance to project.** Dan has 20 years' experience in the Geotechnical Engineering field, including soil density testing, soil classification, and laboratory testing materials. Dan is a certified ACI & MCA Level 1 Concrete Inspector, Michigan Certified Bituminous Inspector, Michigan Certified Aggregate Inspector, and Michigan Certified Asbestos Inspector. Most recently Dan has been involved in working with Environmental Department on monitoring well sampling, and various Environmental sampling in the automotive, and fuel industry.

#### Geotechnical Engineering

##### Geotechnical Technician

###### Rio Algom Mine | Ambrosia Lake, NM

Responsibilities included providing soil analysis and classification of contaminated soil of an 11,000-acre uranium site. Duties included performing density testing on soil placed in containment cell. Provided lab data and location mapping of tested areas.

##### Lead Technician

###### University of Michigan Campus | Ann Arbor, MI

*Construction oversight and testing for the Ann Street parking deck, a seven-level pre-cast structure. The structure is founded on drilled shafts extending 40 to 45 feet below grade, with diameters up to 8 feet. Responsible for inspection and acceptance of the drilled shafts bottom condition prior to concreting to ensure the bearing capacity was met. Other responsibilities included concrete pre-cast plant inspections and quality control testing of engineered backfill soils and cast-in-place concrete.*

##### Lead Field Technician

###### Michigan Department of Transportation | Detroit, MI

*Concrete quality assurance and quality control testing on the largest single contract let to-date MDOT. The project entails 2.66 miles of concrete road reconstruction, 3.0 miles of retaining wall construction and 24 structure rehabilitations on I-75 from Clark Street to 14th Street and on I-96 from I-75 to south of Martin Luther King Boulevard in the city of Detroit, Wayne County. Concrete inspection and testing services being provided include casting beams and testing them for flexural strength,*

*performing slump, air content, and temperature testing on freshly mixed concrete delivered to the project. Strength specimens (cylinders) are also being cast, with field curing, final curing, and performing compressive strength testing after 28 days of curing on cylinders. Separate cylinders are being cast at the direction of MDOT field personnel, which are delivered to MDOT's Sterling Heights, Michigan facility after 28 days of final curing. Approximately 50,000 cubic yards of concrete was delivered to the site.*

##### Lead Field Technician

###### Lawrence Technical University

*Construction oversight and testing at the 3-story Student Service Center on LTU's campus. Engineering technicians documented the building pad subgrade stabilization with geotextile fabric and stone, observed and tested the support soils for the structures footings, and provided documentation for reinforcing steel layout of footings and walls. Quality control tests were completed on cast-in-place concrete and in-place density tests on structural engineered fill of soils. Oversight and testing of site utilities, slab-on-grade, and elevated composite slabs were also completed as part of the project.*

#### Work history

2004 – present	GHD (formerly Conestoga-Rovers & Associates), Plymouth, MI
2001 – 2004	STS Consultants, Grand Rapids, MI
1997 - 2001	Soil and Materials Engineers (SME), Lansing, MI
1995 - 1997	Professional Services Industries (PSI), Lansing, MI







## Eric Maise

### Junior Engineer

**Qualified.** B.S. Environmental Engineering, Michigan Technological University, 2013

**Connected.** Engineer in Training: Michigan; Member of the Order of the Engineer

**Relevance to project.** Eric has 2 years of assisting with remediation, design/build, construction, demolition, long term groundwater and soils monitoring, laboratory soil analysis, permitting applications, water and soil treatment and numerous other Environmental, Civil, and Geotechnical Engineering projects. Roles on these projects include - management/coordination, field technician, development team, surveying and administrative.

#### Design Engineering

##### Project Engineer

**Defiance Compressor Station | TransCanada | Defiance, OH**

*Investigation of existing storm sewer system including review of CCTV inspections of pipeline and manholes to evaluate condition and determine scope for upgrades/repairs. Development and design of improvements to system including new piping, slip lining and best management practices.*

#### Geotechnical

##### Field Technician

**Eastwood Mall | GEI | Lansing, MI**

*Construction oversight of subgrade preparation, catch basin removal and installation, and asphalt paving. Performed density testing of subgrade and asphalt along with concrete inspection and testing. Preparation of daily reports and project coordination.*

#### Demolition/Decommissioning

##### Project Engineer

**JP Morgan Chase Bank | CBRE | Detroit, MI**

*Proposal writing along with PO approval process for asbestos abatement work. Coordination with subcontractor and client along with abatement oversight.*

##### Project Engineer/Inspector

**GM Flint Engine Operations | General Motors | Flint, MI**

*Support GM's environmental group with equipment decommissioning and shipping.*

*Conducted inspections of decommissioned equipment prior to scrapping/shipping. Completed Equipment Decommissioning Check Sheets on behalf of GM.*

##### Project Engineer

**GM Tech Center Steam Building | General Motors | Warren, MI**

*Construction oversight of boiler and chiller demo and removal. Oversight of air monitoring and asbestos sampling and removal.*

#### Remediation/Monitoring

**Project Engineer/Field Technician CVO | RACER | Ypsilanti, MI**

*Construction of an on-site groundwater treatment system for stored contaminated groundwater for discharge to county stormwater system. Subcontractor oversight for the removal of stock piled contaminated soil. Waste manifest management. Report and client submittal preparation, editing, and administrative work.*

#### Work history

January 2014 – present      GHD (formerly Conestoga-Rovers & Associates), Plymouth, MI

#### Other related areas of interest

##### Recognized (Certifications/Trainings)

- 40-Hour HAZWOPER OSHA Training (per 29 CFR 1910.120)
- 8-Hour HAZWOPER OSHA Refresher Training, Annually
- DOT/RCRA HAZMAT Training





# Curriculum Vitae

## Paul Udocon III Civil Engineer

**Qualified.** B.S., Civil and Environmental Engineering, 2013

**Connected.** Registered Engineer-in-Training: Michigan, Member of American Society of Civil Engineers (ASCE), Member of the Order of the Engineer

**Relevance to project.** Paul possesses varied experience in the civil engineering field including coordination of field work, various inspection standards, development of demolition bid packages and site plans including sewer profiles. In addition to this, he works to effectively and efficiently take the task at hand and following through until the client satisfied.

### Design Engineering and Permitting

#### Project Engineer

##### Site Plan Development | Detroit, MI

Developed pavement plans and sewer infrastructure design drawings, bid package and as-built drawings for a site in Detroit, Michigan. Completed pertinent permitting, contractor oversight, manhole and sewer design. Worked with the City of Detroit to obtain sewer connection permits to the sanitary sewer.

#### Project Engineer

##### Joint Permit Development | Various

Assisted in developing various Joint Permit Applications for wetland, floodplain, and shore work. Developed site plans to allow for DEQ to easily locate proposed features on site.

### Field Coordinator

#### Field Coordinator

##### Pipeline Design | Romulus, MI |

March 2015

Coordination of field survey efforts for 35-mile pipeline project including pipeline locate efforts and borehole staking. Paul worked closely with the project manager and geotechnical field coordinator and staff to complete work under budget and ahead of schedule. Reviewed completed work and assisted with coordination of geotechnical work including GHD and contractors. Provided oversight to drilling contractors on an as needed basis.

### Project Coordinator

#### Aboveground Storage Tank Seal Gap

##### Inspections | Various | LA, TX, and IL |

Ongoing

Coordinated internal and external floating roof seal gap inspections on crude oil storage tanks. Activities completed include evaluation of seals and conditions of internal and external floating roof and documentation/reports of findings. Provided final seal gap inspection reports to client for reporting to DEQ.

### Utility Coordinator

#### Project Engineer

##### Willow Run Powertrain | Ypsilanti, MI

Coordinated development of various easements on a long standing industrial site. Coordinated field efforts to obtain accurate survey information on utilities to create various utility easements for development of the site in the future. Provided contractor oversight for sewer inspection and video work.

### Energy and Usage Assessments

#### Project Engineer

##### Industrial Wastewater Usage Analysis |

##### Sterling Heights, MI | September 2013

Reviewed wastewater treatment information provided by industrial site and determined drainage areas on site that discharged to treatment system on site. Determined what contribution was from exterior locations due to rain events in the area.



# Curriculum Vitae

## **Compliance Monitoring and Reporting**

### **Project Engineer**

#### **Compliance Reporting | Various**

Development of compliance monitoring reports for various municipalities to review including discharge reports, total flow, and environmental data reports.

## **Work history**

2013 – present    GHD (formerly Conestoga-Rovers & Associates), Plymouth, MI

## **Other related areas of interest**

### **Recognized (Certifications/Trainings)**

- 40-Hour HAZWOPER OSHA Training (per 29 CFR 1910.120)
- 8-Hour HAZWOPER OSHA Refresher Training, Annually
- DOT/RCRA HAZMAT Training

# Appendix B: GHD's 10 step process





## Appendix B | GHD's 10-step process

The process of building an asset management plan is comprised of ten steps that are directly related to the 5 Core Questions of the US EPA's Framework Note that certain 'best practice' processes and techniques are necessary for the execution of each of these steps. To successfully execute the steps, an organization must master the basics of the associated practices and processes. The graphic shown below shows the five questions, the ten steps, and the basic techniques that support them. The ten steps are detailed below:

### Step 1 | Develop Asset Register

To make informed management decisions in the most effective manner, organizations need information about their infrastructure. This information includes physical attributes, physical condition, performance, utilization, risk, valuations, and history of operations and maintenance.

The asset registry is the fundamental building block of all asset management systems. It is a database that records all of the organization's capital assets and forms the link between all other asset-related applications. The asset register is built around two basic concepts:

- The asset hierarchy – the structure by which the individual asset records will be organized: as individual components, composite assets, or groups of assets
- The record layout – which attributes of each asset are recorded, how they are stored, retrieved, displayed and manipulated.

Getting the structure right is important because data collection is very costly. However, it is also costly to go back and gather data that could have been obtained the first time if the structure of the assets had been carefully developed before going into the field. A classic rule of data organization recognizes that data can always be aggregated (rolled-up) to higher levels, but it can never be disaggregated lower than the lowest level collected. As a guiding principle, data should be organized so that it is aligned with the organization's asset management needs and responsibilities. Planning's information needs are typically at a substantially higher level than maintenance or operations.

Due to the high cost of data collection, verification, storage, retrieval and manipulation, asset record layout needs to be justified economically by considering the costs of a program and the benefits expected to be achieved. Therefore, the information to be collected should be linked to the organization's business processes and specific needs, and defined in a data standard (i.e., collection: why, what, how, when and who).

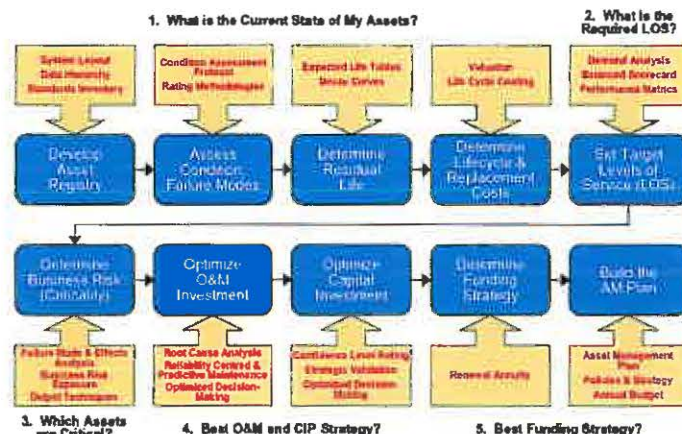
### Step 2 | Assess failure modes (including condition)

Condition reflects the physical state of an asset, which may or may not affect its performance. The performance of an asset is its ability to provide the required level of service to customers. To increase confidence in infrastructure decision-making, organizations must understand the performance of their assets.

There are several different ways that an asset can fail to provide its required level of service – known as the failure modes of an asset. Each of these failure modes will have a separate probability of failure. Most asset failures can be classified under one of the following four failure modes:

- Capacity: the demand exceeds the capacity of the existing asset or network of assets
- Physical Mortality: the structural condition of the asset is such that it has reached the end of its effective life (i.e., replacement of the roof of a building with the same roof type, or replacement of mechanical equipment with the same size or a rebuild)
- Level of Service: the asset no longer performs reliably (i.e., installing backup power to increase the level of redundancy, or adding equipment to meet regulatory requirements)
- Financial Efficiency: the cost of the asset exceeds the economic return necessary to justify retention of the asset (i.e., retrofitting a building to reduce power consumption).

All decisions about the refurbishment and replacement of an asset and the timing of these activities should be based on a sound determination of assets' critical failure modes (the ones with the highest consequence if they were to occur). This will ensure that the organization focuses on the assets and failures that can have the most impact on its business.



If failure relates to physical mortality, then it is helpful to establish the cause of the failure to ensure that preventative measures are put in place to avoid unexpected failures.

The most imminent failure mode should dictate assessment techniques and subsequent management strategies. Condition assessment provides insight into the nature and timing of possible failure, but it is only a means to an end – determining residual life.

### **Step 3 | Determine residual life**

Residual life of an asset is the period from the current point in time to the time of renewal, and is an important indicator of asset performance. Understanding asset failure modes and remaining lives leads to better decision-making because it allows effort to be focused on understanding the timing and likelihood of failure, the required timing and extent of failure mitigation such as infrastructure rehabilitation or replacement, and expected expenditure patterns. Remaining life can be estimated based on assumed useful life and age, or current condition and decay prediction models.

### **Step 4 | Determine lifecycle and replacement costs**

Asset valuations are an integral part of asset management. The valuation process provides asset managers with the necessary asset knowledge to make sound managerial decisions and to meet regulatory compliance.

Apart from being a sound financial practice, asset valuation is a valuable management tool. It assists in the determination of future budgets and the allocation of costs, and it provides measurement for performance.

Valuation of assets may be required for a variety of reasons. Some of these reasons include:

- Asset Management Optimized Decision Making – Asset valuation can assist asset managers with rehabilitation and replacement cost information necessary to make sound management decisions
- Improved Managerial Decision Making – Asset valuation is an important component of managerial decision making (e.g., lifecycle cost analysis, business case evaluation, etc.)
  - Accounting Regulations Compliance – Asset valuation can be used to determine the book value of an asset, a facility, and/or a network of systems, and is needed to apply depreciation methodology for compliance with applicable regulations
  - Insurance Assessments – Knowledge of asset value becomes critical in establishing insurance liability limits.

It is important that asset valuations are calculated with reference to a clear objective. Depending on the objective, the valuation approach and the level of accuracy obtained will vary.

For asset management decisions, it is imperative that the unique value of each individual asset be recognized. Accurate replacement valuation for individual assets can assist asset managers to effectively determine the appropriate management of that asset in terms of:

- Determining the appropriate condition monitoring required
- Determining optimal maintenance program
- Determining appropriate renewal strategies.

Owners, users and managers need to make decisions on the acquisition and ongoing use of many different assets, including items of equipment and the facilities to house them. The initial capital outlay costs are usually clearly defined and are often key factors influencing the choice between alternative asset options. The initial capital outlay costs are, however, only a portion of the costs over an assets lifecycle that needs to be considered in making the right choice for asset investment. The process of identifying and documenting all the costs involved over the life of an asset is known as Lifecycle Costing. Total cost of ownership of an asset is often far greater than the initial capital outlay cost and can vary significantly between different alternative solutions to a given operational need. Consideration of the costs over the whole life of an asset provides a sound basis for decision-making.

### **Step 5 | Set target levels of production or Levels of Service (LOS)**

Knowing the required 'sustainable' level of service will help an organization implement an asset management program and communicate to stakeholders. Quality, quantity, reliability, and environmental standards are elements that can define level of service and associated system performance goals, both short- and long-term. Level of service requirements can be developed using information about customer demand, data from regulators and associations, and information from other stakeholders. Level of service requirements can be updated to account for changes due to growth, regulatory requirements, and technology improvements.

Best practices include:

- Analysing current and anticipated customer demand and satisfaction with the system
- Understanding current and anticipated regulatory requirements



- Writing and communicating to the public a level of service 'agreement' that describes your system's performance targets
- Using level of service standards to track system performance over time.

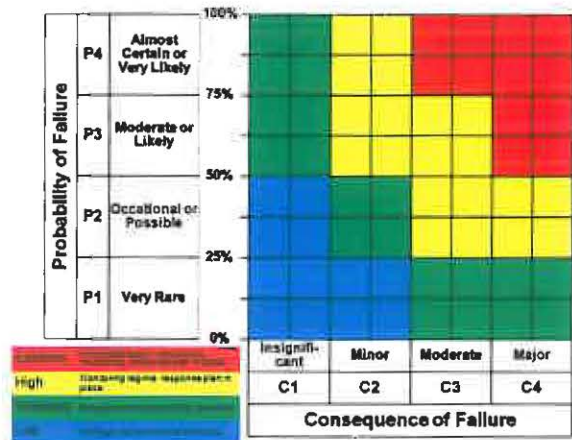
**Step 6 | Determine Business risk (criticality)**

Understanding which assets or asset components are critical, and why, helps an organization focus investments. Not every asset presents the same failure risk or is of equal importance to an organization, so it is important to know which assets are most critical to service delivery. Critical assets are those assets that have (i) a high probability or likelihood of failing (i.e., assets that are old, in poor physical condition, too small, inefficient, etc.) and (ii) major consequences or impacts if they do fail (i.e., a major expense, safety concerns, etc.).

The business risk or criticality of an asset is a combination of both the probability of failure (or PoF) and the consequence of failure (or CoF): **Business Risk = PoF x CoF**. To determine the probability of failure, one must understand asset failure modes and remaining lives. To determine the consequence of failure, one must understand how the asset contributes to service delivery.

A risk map is a graphic representation of the probability and consequence of one or more risks related to a similar objective. After assessing the impact and likelihood of each risk, they are plotted on a matrix (Fig 3.4). Different colors on the map will help to prioritize where and how to focus resources.

- Risks that appear in the red zone have both high PoF and high CoF, are significant to the organization and, therefore, need to be actively monitored and managed in a more comprehensive manner than other risks.
- Risks that appear in the orange or yellow zones will also be actively managed, depending on their nature.
- Risks that appear in the green zone have both low PoF and low CoF and are generally acceptable without significant mitigation strategies being implemented, although monitoring may still occur in some form.



Investments are made to infrastructure to (i) reduce the probability of failure (i.e., by replacing a worn out or inefficient asset, improving its condition, or increasing its capacity) and/or to (ii) reduce the consequence of failure (i.e., by installing backup power, or training staff to inform of potential safety concerns). Effective decision-making focuses infrastructure investment on the most effective risk reduction.

Most asset failures have very limited consequences. In some cases, the only consequence is the need to replace the asset. In recognition of this, many assets are treated as 'run to failure,' that is, a refurbishment or proactive replacement is not considered and the asset is allowed to fail before replacement (although operational maintenance continues). This is an appropriate strategy for these assets with very limited consequences of failure and maximizes the useful lives of the assets, resulting in the lowest cost of asset ownership. In such cases, detailed condition assessment, refurbishment and proactive replacement would obviously have no value. Many or most asset failures are not related to asset condition, but arise from the operational environment or maintenance practices. Again, condition assessment would not be useful in forecasting asset failure.

**Step 7 | Optimize O&M investment**

Maintenance activities are categorized as actions undertaken to retain an asset as near as practicable to its original service potential for the expected service life (i.e., does not increase the service potential, capacity or life of the asset). Proactive or planned maintenance includes servicing, predictive (monitoring), and preventive activities. Reactive or unplanned maintenance involves corrective maintenance and repairs to a component that has failed. An optimized maintenance program to balance preventive, predictive and corrective maintenance.

Best practices should include:

- Recording and reporting O&M costs down to the significant maintenance managed item level
- Developing maintenance strategies that incorporate the overall business drivers for maintenance, capital and system performance
- Minimizing overall lifecycle costs through an optimal blend of planned and unplanned maintenance activities and by operating the assets cost-effectively
- Analysing the causes of asset failure to develop specific response plans
- Developing guidelines for work management including:

- Matching skills to the demand for services/ activities & allocate resources
- Managing larger projects that involve multiple tasks and track costs
- Controlling inventory or stock
- Planning future work load and required resources
- Conducting performance monitoring and continued improvement.

### **Step 8 | Optimize capital investment**

Lifecycle costing assembles all costs incurred (or likely to be incurred) by an asset over its projected life, so that the costs can be analyzed and evaluated. This enables decisions on acquisition, maintenance, refurbishment or disposal to be made in light of full cost implications. A discounted cash flow method is used to appraise options based on the concept of discounting future costs and benefits to their net present value or NPV, taking into account the opportunity cost of the capital being used.

Best practices should include:

- Identifying alternative options (i.e., 'do nothing', reduced capital, manage the risk through asset investment such as rehabilitation or replacement, and 'non-asset' solutions)
- Developing lifecycle options and costs (and benefits), with timing
- Developing and applying a lifecycle cost model to the options to compare costs (and benefits) of options at different times using the net present value discount method
- Conducting a sensitivity analysis and making recommendations.

A capital expenditure review is used to determine the degree of confidence that the organization holds in the capital works programs. The degree of confidence will be related to how well the organization has assessed and exploited its opportunities for cost reduction.

### **Step 9 | Determine funding strategy**

Sound financial decisions and developing an effective long-term funding strategy are critical to the implementation of an asset management program. Knowing the full economic costs and revenues associated with service delivery will enable the organization to determine its financial forecast. The service area's financial forecast can then be used to make decisions on changes that are needed to the long-term funding strategy.

Typical renewals programs will include large annual variations. The annual variations can be evened out by using an annual (average) annuity. The organization can 'balance out' the typical lumpiness of a renewal program over the long term. Run-down assets really represent a backlog of works, or the consumption of assets by past consumers, and this is reflected in the modeling of the replacement programs.

The average annual annuity of a forward cash flow program (renewal program) is that sum of money that needs to be put aside every year to make certain that (over the annuity period) the amount of money needed will be derived. It can include an allowance for return or interest. When using a properly constructed renewal annuity as the depreciation item in our operating statements, we need to properly account for the yearly variations (surpluses or deficits) that will occur between the annuity figure and the actual cash flow required for the current renewal program.

A holding account is set up for the total demand in funds required by individual service programs. This holding account would include the funds for the optimized renewal of existing assets as well as an average annuity of the program required to meet the expectations for new assets through expanded responsibilities or increased customer expectations. The funds in the holding account would be protected from misuse for either the renewal program or the creation of new assets or asset services. Where necessary, loan accounts could be set up to take those surpluses from the holding account in one service program and enable a loan to be given to another program that may be in deficit.

The pricing and accounting system needs to include accountability aspects for the assets (as a whole) to make certain that long-term viability of the organization for a full life cycle period (100 years in this example). This means all costs being met by current generations are fairly assessed and intergenerational/equity issues are covered. The key outcome of any accounting system must be to make certain that the true costs of asset services are allocated to and recovered from those users (customers) who receive benefits from the cost. If we are using an average annual annuity to provide income for the renewal of assets, then the three key impacts will be:

- ▶ The discount or interest rate used - i.e. the interest % used to assess the return on capital
- ▶ The time period over which the annuity is calculated
- ▶ The yearly cash flow required for asset renewals – e.g. the shape of the renewal cash flow.

To better understand the annuities, it is good to evaluate them using very low discount rates, so that they reflect annual averages. This is a critical issue since high discount rates tend to encourage asset owners to defer appropriate



intervention opportunities earlier in the asset life. This practice always gives preference to deferring investment until failure, or just before failure.

**Step 10 | Build the Asset Management Plan**

The key change for asset owners is to shift from the practice of examining assets historically, to knowing exactly what is going on right now (the present) and having an accurate picture of what is likely to happen in the future. To do this, organizations need to develop a comprehensive asset management plan, through which the business can gain a clear picture of probable scenarios that will impact on its activities.

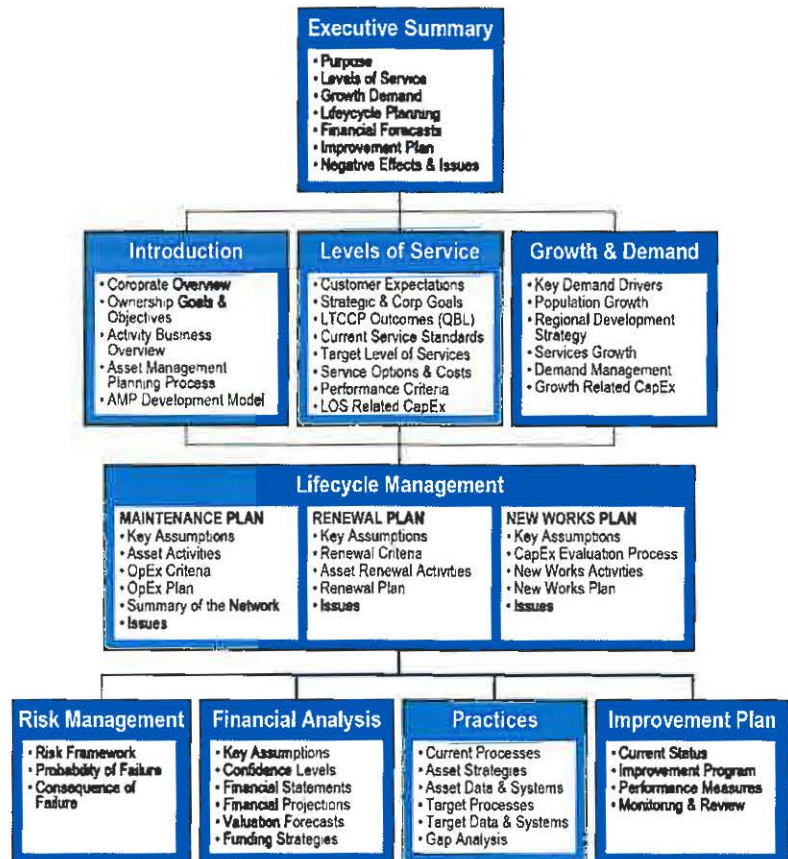
An asset management plan will answer the following key questions:

- What are the assets of the organization?
- What do they consist of (their physical details)?
- What is their present documented replacement cost?
- What condition are they in and at what rate are they being consumed (decay)?
- What standard level of service is required from the assets?
- How are they likely to fail to meet service standards?
- What will be the impact of these failures on the service delivery?
- What is the optimal strategy to counter these failures?
- What is the optimal maintenance level required to provide the necessary reliability or cost effective life within the business framework?
- Should they be rehabilitated or replaced, and when should this take place?
- What is the cost of operations for these future maintenance, rehabilitation and replacement programs?
- How can these programs be financed, and what is the impact on customers and stakeholders?
- How would different levels of funding affect the level of service?

The key elements for the accuracy of the plan are:

- Consideration of all relevant options
- Assessment of all potential benefits
- Determination of realistic time frames
- Acceptable objectivity of all cost factors, especially:
  - Maintenance costs and Operational Costs
- The consequences of failure expressed in economic terms for both the direct costs of repair and the indirect costs of ancillary aspects of the failure (societal cost)
- The costs of the renewal options being evaluated and the accuracy of these costs
- The accuracy of the cost estimates for both new works and major rehabilitation or replacement
- The discounted cash flow used to assess the various options and timeframes
- The accuracy with which the optimal strategy was determined.

A typical asset management plan outline is shown in the Figure.

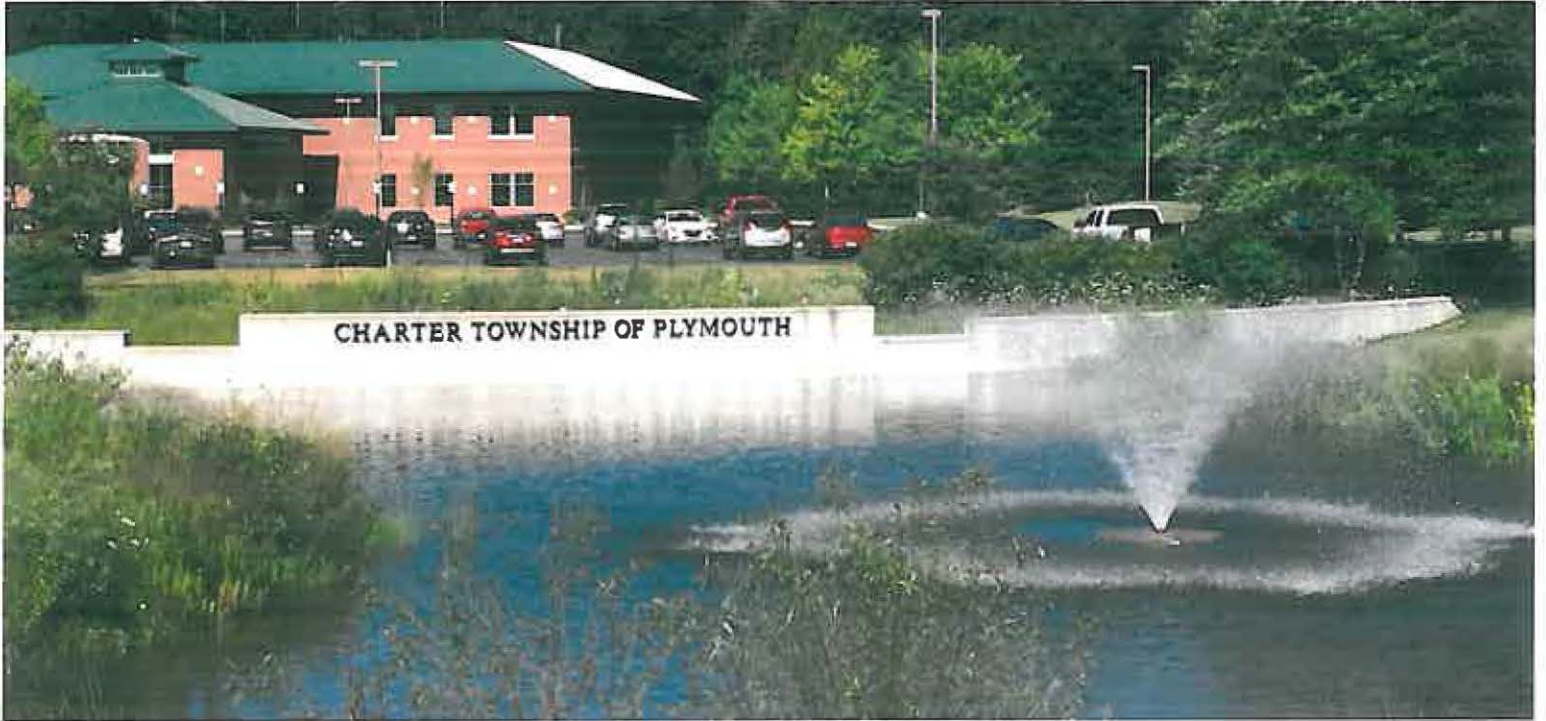








[www.ghd.com](http://www.ghd.com)



# **Wastewater** asset management plan development



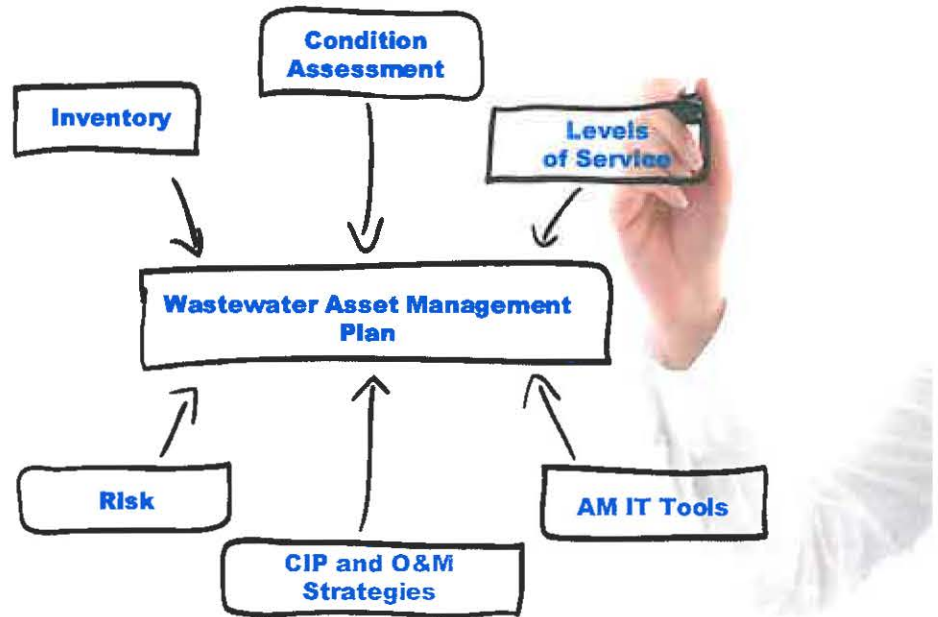
**Charter Township of Plymouth, MI**

January 19, 2016



# Agenda

- Introductions
- Proposal presentation
- Open discussion – Q&A
- Closing



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## **Presentation** team



**Gage Muckleroy**



**Dan Brooks**



**Scott Adamowski**



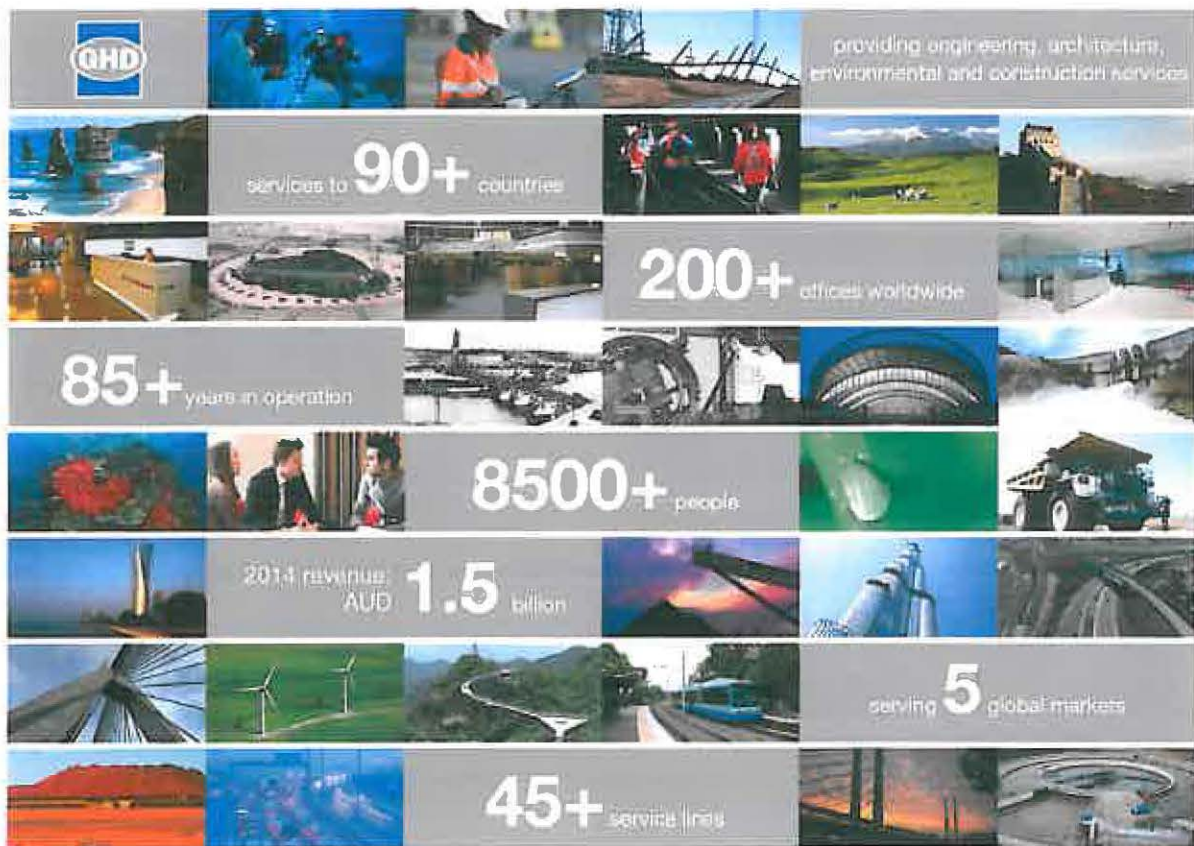
**Matt Lamb**

**The GHD/WT team has 25+ years of asset management, wastewater and MDEQ experience**



Charter Township of Plymouth – Wastewater AMP

## GHD At a glance



WADETRIM

Charter Township of Plymouth – Wastewater AMP



## **Wade Trim At a glance**

- Founded in 1926
- 360 employees in 19 offices in 9 states
- Full service engineering firm with a focus on Municipal Services
- Service a number of municipalities in Southeastern Michigan
- Access to wide range of new ideas and technologies
- National expertise providing local service



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## Township's **goals and objectives**

- Experienced and Qualified Team
- Robust Asset Management Framework that can be used for other Township assets
- Partner with selected consultant – work collaboratively
- Make best use of the SAW Grant funding
- Make sure the project is done right





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## Successful implementation of Asset Management at Plymouth Township **requires**

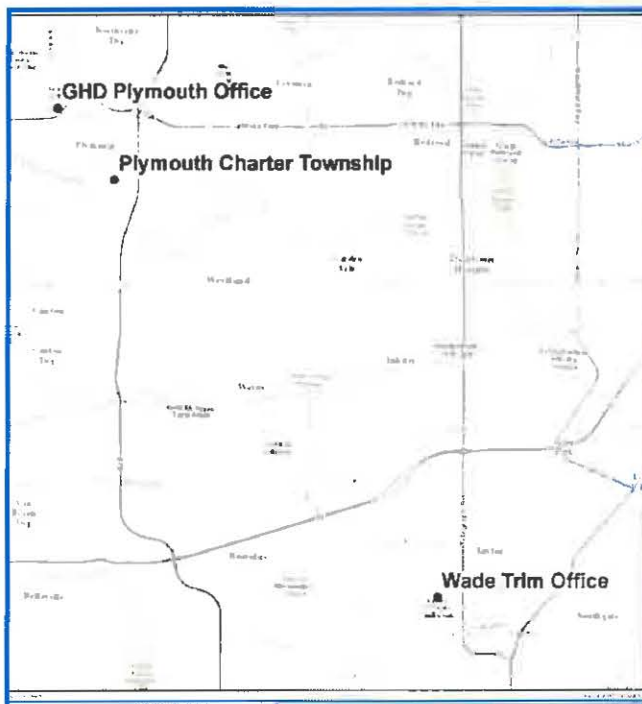
- ✓ An experienced local project team to partner with Township staff
- ✓ A reputable consulting firm - strong background in asset management
- ✓ A proven approach and implementation methodology

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## Successful implementation of Asset Management at Plymouth Township **requires**

- ✓ An experienced local project team to partner with Township staff
- ✓ A reputable consulting firm - strong background in asset management
- ✓ A proven approach and implementation methodology

## Where are we?

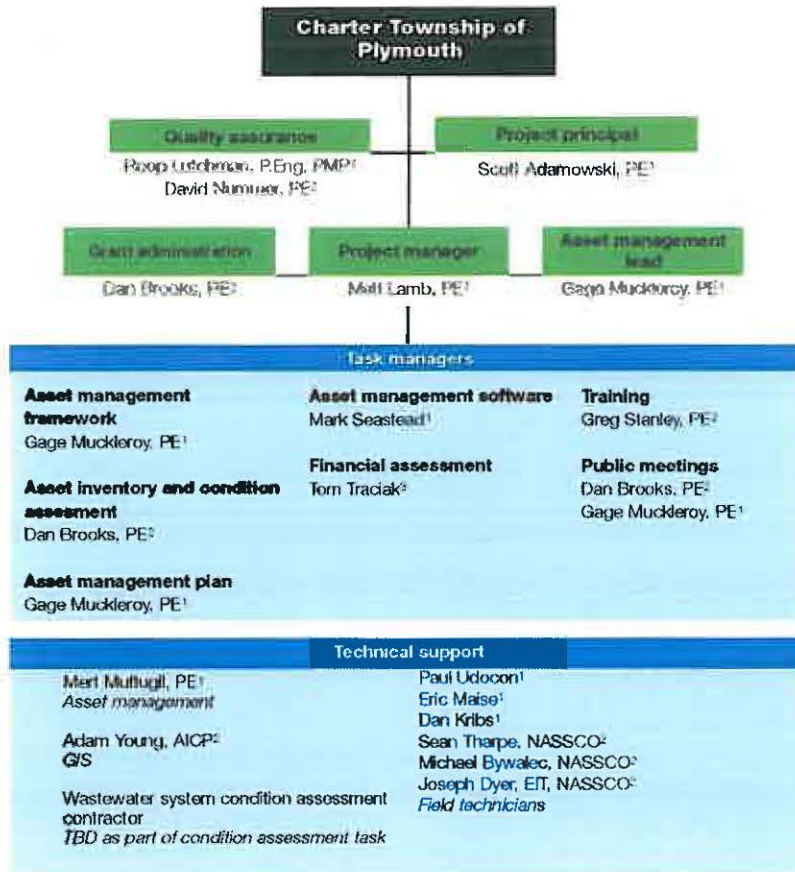


Our team is **local**



Charter Township of Plymouth – Wastewater AMP

# Project team



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## **SAW grant** administration experience

- Assisted our clients in securing and administering hundreds of millions of dollars in funds from various regional State and federal funding agencies
- S2 Grants, SRF and SWQIF Loans
- CMI NPS Program
- SAW Grant Administration
- Know the Required Documentation
- Timely Monthly Disbursement Requests





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## Successful implementation of Asset Management at Plymouth Township **requires**

- ✓ An experienced local project team to partner with Township staff
- ✓ A reputable consulting firm - strong background in asset management
- ✓ A proven approach and implementation methodology

## Our asset management experience

- Making Asset Management work for over 30 years
- Extensive and robust body of knowledge
- Contributors to the IIMM, PAS 55 and ISO 55000
- US EPA Training Workshops (over 6000+ trained)
- University of Wisconsin – Advanced AM Training
- Global network of industry experts

We provide a full range of business consulting services

### Visioning



Strategic



Tactical



Operational



WADETRIM

Charter Township of Plymouth – Wastewater AMP

# GHD wrote the book on asset management

1987 – GHD selected to be on team of specialist by Australian Government to develop a manual on Infrastructure Management Best Practices



2003 - GHD Creates 5 Core Questions and 10 Step Process for Teaching Asset Management as part of the EPA AM Workshop Series



2012 – GHD Completes WERF Case Study on the End of Asset Life Tool with the Greater Cincinnati Water Works and the Metropolitan Sewer District of Greater Cincinnati

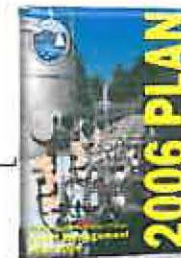
1987                      1990                      2000                      2010                      2012



1993 - GHD Principal Author of first edition of the International Infrastructure Manual



2004 – GHD initiates work with WERF to develop an Asset Management knowledge base. The result was the SIMPLE website. GHD in subsequent engagements developed the SAM GAP assessment tool as well as asset management tools .



2006 - GHD develops the first Asset Management Plan in the USA for Orange County Sanitation District



## Relevant asset management projects



Charter Township of Plymouth  
June 14, 2016  
Board Meeting Date

6/14/2016	
Batch ID	
Check Date	
	TOTAL
GENERAL FUND(101)	1,162,316.26
SWD(226)	123,680.30
IMPROV. REV.(246)	41,199.77
DRUG FORFEITURE(265)	1,322.40
GOLF COURSE FUND - (510)	16,777.68
SENIOR TRANSPORATION (588)	
WATER/SEWER(592)	781,608.53
TRUST& AGENCY(701)	156.75
POLICE BOND FUND (702)	5,749.00
TAX POOL(703)	61,942.91
SPECIAL ASSESS CAPITAL (805)	36,821.09
TOTAL	2,245,814.93



## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

<b>ALLIE BROTHERS UNIFORMS</b> Uniform Equip/Yudt Inv. 60045 4/11/16 <i>101-325-758.000 Uniform pants</i> <i>101-325-758.000 Uniform belt</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$181.48</b> <b>06/15/2016</b> 142.98 38.50
<b>ALLIE BROTHERS UNIFORMS</b> Uniform Equip/S. Smith Inv. 60112 4/19/16 <i>101-325-758.000 Uniform Sweater</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$104.99</b> <b>06/15/2016</b> 104.99
<b>ALPHAGRAPHICS #336</b> Business Cards - Chief Tiderington Inv. 108886 4/ <i>101-305-727.000 Chief Tiderington Business Cards</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$73.00</b> <b>06/15/2016</b> 73.00
<b>BONADEO, KAREN</b> Mileage Reimbursement for training in Pontiac <i>101-305-960.000 62.4 miles driven round-trip to Pontiac</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$33.70</b> <b>06/15/2016</b> 33.70
<b>HUMANE SOCIETY OF HURON VALLEY</b> March Stray Impound Services Inv. 32016 3/31/1 <i>101-305-819.000 March Services</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$300.00</b> <b>06/15/2016</b> 300.00
<b>MACNLOW ASSOCIATES</b> Advanced Supervision Training - Kudra and Krebs <i>101-305-960.000 Adv Supervision Trg. on April 20-22, 201</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$750.00</b> <b>06/15/2016</b> 750.00
<b>OAKLAND COMMUNITY COLLEGE</b> Homeland Security Trg. - Kris Clark Inv. 102357 4 <i>101-325-960.000 Homeland Security Trg. 4/7/16</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$190.00</b> <b>06/15/2016</b> 190.00
<b>OAKLAND COMMUNITY COLLEGE</b> Simunition Training - Hinkle and J. Hayes Inv. 10 <i>101-305-960.000 Simunition Training 4/12-4/14</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$1,250.00</b> <b>06/15/2016</b> 1,250.00
<b>OAKLAND COUNTY</b> Out-County GIS Data Inv. INF0002056 4/1/16 <i>101-325-818.000 GIS DATA</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$28.25</b> <b>06/15/2016</b> 28.25
<b>OAKLAND COUNTY</b> Clemis Fees Jan-March, 2016 <i>101-325-818.000 Membership Usage Fees</i> <i>101-325-818.000 Participation Fee</i> <i>101-325-818.000 Livescan April-June</i> <i>101-325-818.000 Mug Capture Stn Maint</i> <i>101-325-818.000 Crimemapping</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$7,155.25</b> <b>06/15/2016</b> 1,870.50 3,282.00 927.75 1,000.00 75.00
<b>SURE-FIT LAUNDRY CO.</b> Prisoner Blanket Cleaning Inv. 361392 4/21/16 <i>101-325-851.000 Blanket Cleaning</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$22.50</b> <b>06/15/2016</b> 22.50
<b>TOWN LOCKSMITH</b> Keys Duplicated Inv. 18370 3/30/16 <i>101-305-727.000 Keys for gun lockers and trailer</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$43.95</b> <b>06/15/2016</b> 43.95
<b>JPW Associates, Inc.</b> Equipment <i>592-291-851.000 Cradle with power supply</i> <i>592-291-851.000 Freight</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$305.15</b> <b>06/15/2016</b> 295.00 10.15

**Charter Township of Plymouth  
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**VENDOR INFORMATION****INVOICE INFORMATION**

<b>JPW Associates, Inc.</b>			<b>Invoice Amount:</b>	<b>\$885.00</b>
Equipment			<b>Check Date:</b>	<b>06/15/2016</b>
	592-291-851.000	Handheld preventive maintenance		495.00
	592-291-851.000	Pocket pro reader repairs		390.00
<b>DON'S SMALL ENGINE</b>			<b>Invoice Amount:</b>	<b>\$48.94</b>
Weed Whip Speed Head Replacement			<b>Check Date:</b>	<b>06/15/2016</b>
	101-691-931.000	Speed Feed Head		41.44
	101-691-931.000	Labor		7.50
<b>SITEONE LANDSCAPE SUPPLY</b>			<b>Invoice Amount:</b>	<b>\$117.66</b>
50/50 Blue-Rye seed mix			<b>Check Date:</b>	<b>06/15/2016</b>
	101-691-931.000	50/50 Blue-Rye seed mix		117.66
<b>IRON MOUNTAIN</b>			<b>Invoice Amount:</b>	<b>\$157.00</b>
Document storage May 2016			<b>Check Date:</b>	<b>06/15/2016</b>
	101-215-727.000	May 2016 document storage		157.00
<b>KONICA MINOLTA BUSINESS SOLUTIONS</b>			<b>Invoice Amount:</b>	<b>\$172.71</b>
Copies			<b>Check Date:</b>	<b>06/15/2016</b>
	101-371-727.000	Copies		126.47
	101-215-727.000	Copies		46.24
<b>PRINTING SYSTEMS INC</b>			<b>Invoice Amount:</b>	<b>\$1,249.72</b>
Election Supplies			<b>Check Date:</b>	<b>06/15/2016</b>
	101-215-727.000	Election Supplies		1,249.72
<b>PRINTING SYSTEMS INC</b>			<b>Invoice Amount:</b>	<b>\$302.60</b>
Voter ID cards			<b>Check Date:</b>	<b>06/15/2016</b>
	101-262-727.000	Voter ID cards (5000)		302.60
<b>APOLLO FIRE EQUIPMENT</b>			<b>Invoice Amount:</b>	<b>\$531.65</b>
hoods			<b>Check Date:</b>	<b>06/15/2016</b>
	101-336-758.000	PAC 11-PBI hoods (18)		531.65
<b>B &amp; R JANITORIAL SUPPLY</b>			<b>Invoice Amount:</b>	<b>\$68.74</b>
Senior Center supplies			<b>Check Date:</b>	<b>06/15/2016</b>
	101-265-858.000	INV 172023		68.74
<b>CDW GOVERNMENT INC</b>			<b>Invoice Amount:</b>	<b>\$43.80</b>
Flash Drives Per quote HBBQ513			<b>Check Date:</b>	<b>06/15/2016</b>
	101-201-727.000	Transcend 32GB flash drv-TS32GJF300		43.80
<b>CHRISTENSEN'S PLANT CENTER</b>			<b>Invoice Amount:</b>	<b>\$177.00</b>
8 Yards of Top Soil			<b>Check Date:</b>	<b>06/15/2016</b>
	101-691-931.000	Yards Top Soil		142.00
	101-691-931.000	Delivery Fee		35.00
<b>CORRIGAN OIL COMPANY</b>			<b>Invoice Amount:</b>	<b>\$1,875.20</b>
Fuel			<b>Check Date:</b>	<b>06/15/2016</b>
	592-291-863.000	No Lead 600 gals @ \$1.7859		1,071.54
	592-291-863.000	Diesel 400 gals @ \$1.9803		792.12
	592-291-863.000	Fuel Tax Recap		11.54
<b>ENMET CORP</b>			<b>Invoice Amount:</b>	<b>\$564.00</b>
DPW equipment			<b>Check Date:</b>	<b>06/15/2016</b>

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	592-291-785.000	Gas detector sensor	564.00
<b>ETNA SUPPLY</b>			<b>Invoice Amount: \$934.28</b>
Quote #S101759553 dated 3/24			<b>Check Date: 06/15/2016</b>
	592-291-935.000	Cotter Pin for curb box	2.40
	592-291-934.000	Hydrant repair kit	931.88
<b>ETNA SUPPLY</b>			<b>Invoice Amount: \$41.20</b>
Quote #S101759553 dated 3/24			<b>Check Date: 06/15/2016</b>
	592-291-935.000	Cotter Pin for curb box	30.00
	592-291-935.000	Freight	11.20
<b>WADE-TRIM OPERATIONS SERVICES</b>			<b>Invoice Amount: \$3,968.75</b>
Professional Services 1/31/16 - 2/27/16			<b>Check Date: 06/15/2016</b>
	805-805-970.340	Ridgewood Hills Sub 2,3,4 SAD PVMT	3,968.75
<b>WADE-TRIM OPERATIONS SERVICES</b>			<b>Invoice Amount: \$4,457.41</b>
Professional Services 2/28/16 - 3/26/16			<b>Check Date: 06/15/2016</b>
	805-805-970.340	Ridgewood Hills Sub 2,3,4 SAD PVMT	4,457.41
<b>FIRE SERVICE MANAGEMENT</b>			<b>Invoice Amount: \$175.50</b>
gear repair Bukis & Mallari			<b>Check Date: 06/15/2016</b>
	101-336-758.000	Clean & Repair gear-Bukis & Mallari	175.50
<b>GUARDIAN ALARM CO</b>			<b>Invoice Amount: \$253.29</b>
Alarm billing 5/1/16-7/31/16			<b>Check Date: 06/15/2016</b>
	592-443-937.000	Monitoring, Maintenance & Services	253.29
<b>HASTINGS AIR-ENERGY CONTROL</b>			<b>Invoice Amount: \$448.95</b>
REPLACED GRABBER			<b>Check Date: 06/15/2016</b>
	101-336-776.000	Repl Grabber/Bladder	448.95
<b>HASTINGS AIR-ENERGY CONTROL</b>			<b>Invoice Amount: \$263.95</b>
air energy control			<b>Check Date: 06/15/2016</b>
	101-336-776.000	Regulator Assy & Gauge	263.95
<b>HYDRO CORP</b>			<b>Invoice Amount: \$1,649.00</b>
Inspection/reporting services April 2016			<b>Check Date: 06/15/2016</b>
	592-291-804.000	Cross Connection control program	1,649.00
<b>INDUSTRIAL BROOM SERVICE</b>			<b>Invoice Amount: \$304.00</b>
Parts			<b>Check Date: 06/15/2016</b>
	592-291-851.000	Gutter broom for Sweeper	304.00
<b>J &amp; B MEDICAL SUPPLY INC</b>			<b>Invoice Amount: \$486.73</b>
medical supplies			<b>Check Date: 06/15/2016</b>
	101-336-836.000	COV8303SA SHARPS CONTAINERS	49.70
	101-336-836.000	COV22550P ELECTRODES	237.50
	101-336-836.000	COV31013926 ELECTRODES	118.00
	101-336-836.000	PROP153010 TAPE	36.96
	101-336-836.000	AMB530-213-000 RESUSCITATOR	27.99
	101-336-836.000	AMB530-214-000B RESUSCITATOR	16.58
<b>FEDEX OFFICE</b>			<b>Invoice Amount: \$118.80</b>
HHW SIGN LAMINATION			<b>Check Date: 06/15/2016</b>
	226-226-810.000	HHW INTERIOR SIGNS	118.80

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<b>LARSON, OSCAR W. CO.</b>			<b>Invoice Amount:</b>	<b>\$449.97</b>
Services performed - fuel card system			<b>Check Date:</b>	<b>06/15/2016</b>
	592-172-818.000	Cell Antenna		64.48
	592-172-818.000	Freight		15.49
	592-172-818.000	HS&E		10.00
	592-172-818.000	ST-Technician/Labor		360.00
<b>MICHIGAN METER TECHNOLOGY GRP INC</b>			<b>Invoice Amount:</b>	<b>\$88.25</b>
Meter parts			<b>Check Date:</b>	<b>06/15/2016</b>
	592-172-780.000	Register head plns		80.00
	592-172-780.000	Freight		8.25
<b>MICHIGAN LINEN SERVICE</b>			<b>Invoice Amount:</b>	<b>\$95.20</b>
Uniforms			<b>Check Date:</b>	<b>06/15/2016</b>
	592-172-758.000	Uniforms - 5/13/16		95.20
<b>MICHIGAN LINEN SERVICE</b>			<b>Invoice Amount:</b>	<b>\$77.20</b>
Uniforms			<b>Check Date:</b>	<b>06/15/2016</b>
	592-172-758.000	Uniforms - 5/6/16		77.20
<b>MICHIGAN LINEN SERVICE</b>			<b>Invoice Amount:</b>	<b>\$84.35</b>
Uniforms			<b>Check Date:</b>	<b>06/15/2016</b>
	592-172-758.000	Uniforms - 4/29/16		84.35
<b>MICHIGAN LINEN SERVICE</b>			<b>Invoice Amount:</b>	<b>\$1,084.52</b>
Uniforms			<b>Check Date:</b>	<b>06/15/2016</b>
	592-172-758.000	Car 100504 M-XL		216.60
	592-172-758.000	R02		179.98
	592-172-758.000	S606		109.52
	592-172-758.000	K510		77.52
	592-172-758.000	CT10 Coverall		36.56
	592-172-758.000	J771		331.02
	592-172-758.000	2300 W/Logo 2XL-3XL		133.32
<b>MICHIGAN LINEN SERVICE</b>			<b>Invoice Amount:</b>	<b>\$77.20</b>
Uniforms			<b>Check Date:</b>	<b>06/15/2016</b>
	592-172-758.000	Uniforms - 1/1/16		77.20
<b>MICHIGAN LINEN SERVICE</b>			<b>Invoice Amount:</b>	<b>\$77.20</b>
Uniforms			<b>Check Date:</b>	<b>06/15/2016</b>
	592-172-758.000	Uniforms - 1/8/16		77.20
<b>MICHIGAN LINEN SERVICE</b>			<b>Invoice Amount:</b>	<b>\$84.35</b>
Uniforms			<b>Check Date:</b>	<b>06/15/2016</b>
	592-172-758.000	Uniforms - 1/15/16		84.35
<b>ORCHARD, HILTZ, &amp; MCCLIMENT, INC.</b>			<b>Invoice Amount:</b>	<b>\$1,328.00</b>
Contract Documents & Bidding			<b>Check Date:</b>	<b>06/15/2016</b>
	101-446-818.000	2016 Road Crack Sealing Program -176980		1,328.00
<b>ORCHARD, HILTZ, &amp; MCCLIMENT, INC.</b>			<b>Invoice Amount:</b>	<b>\$11,854.75</b>
Professional Services			<b>Check Date:</b>	<b>06/15/2016</b>
	805-805-970.300	Plymouth Commons Road SAD		11,854.75
<b>ORCHARD, HILTZ, &amp; MCCLIMENT, INC.</b>			<b>Invoice Amount:</b>	<b>\$16,421.75</b>
Professional Services			<b>Check Date:</b>	<b>06/15/2016</b>
	805-805-970.300	Plymouth Commons Road SAD		16,421.75

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<b>PRINTING SYSTEMS INC</b>			<b>Invoice Amount:</b>	<b>\$73.10</b>
Election supplies			<b>Check Date:</b>	<b>06/15/2016</b>
	101-262-727.000	<i>Election supplies</i>		73.10
<b>AIRGAS USA, LLC</b>			<b>Invoice Amount:</b>	<b>\$10.09</b>
Propane refill			<b>Check Date:</b>	<b>06/15/2016</b>
	101-336-836.000	<i>propane refill from bulk</i>		10.09
<b>AIRGAS USA, LLC</b>			<b>Invoice Amount:</b>	<b>\$303.40</b>
rent cylinders			<b>Check Date:</b>	<b>06/15/2016</b>
	101-336-836.000	<i>Rent Cyl Med Lg Oxygen</i>		303.40
<b>SEHI COMPUTER PRODUCTS</b>			<b>Invoice Amount:</b>	<b>\$269.84</b>
Laser Jet Cartridges -Friendship Station			<b>Check Date:</b>	<b>06/15/2016</b>
	101-265-858.000	<i>Dual Pack HP High Capacity Toner</i>		263.84
	101-265-858.000	<i>Freight</i>		6.00
<b>WEINGARTZ</b>			<b>Invoice Amount:</b>	<b>\$434.73</b>
24" Stihl Hedge Trimmer and Bar Oil			<b>Check Date:</b>	<b>06/15/2016</b>
	101-691-978.000	<i>Stihl Hedge Trimmer STH582T- 24</i>		424.96
	101-691-931.000	<i>Stihl Bar &amp; Chain Oil 128 oz</i>		9.77
<b>ELECTION SOURCE</b>			<b>Invoice Amount:</b>	<b>\$393.44</b>
Canvas Ballot Bags			<b>Check Date:</b>	<b>06/15/2016</b>
	101-262-727.000	<i>Canvas ballot bag</i>		380.00
	101-262-727.000	<i>Freight</i>		13.44
<b>MICHIGAN TOWNSHIPS ASSOCIATION</b>			<b>Invoice Amount:</b>	<b>\$6,309.78</b>
Annual Dues 7/1/2016 - 6/30/2017			<b>Check Date:</b>	<b>06/15/2016</b>
	101-290-958.000	<i>Annual Dues</i>		6,309.78
<b>SUPERIOR MEDICAL WASTE</b>			<b>Invoice Amount:</b>	<b>\$60.00</b>
medical waste pick up			<b>Check Date:</b>	<b>06/15/2016</b>
	101-336-836.000	<i>Medical Waste pick up</i>		60.00
<b>XTREME SHREDS</b>			<b>Invoice Amount:</b>	<b>\$450.00</b>
Document shredding			<b>Check Date:</b>	<b>06/15/2016</b>
	101-215-727.000	<i>Document shredding, 15 bins</i>		450.00
<b>APOLLO FIRE EQUIPMENT</b>			<b>Invoice Amount:</b>	<b>\$158.00</b>
Gloves			<b>Check Date:</b>	<b>06/15/2016</b>
	101-336-758.000	<i>XX Lg Titan long cuff Gloves</i>		158.00
<b>CDW GOVERNMENT INC</b>			<b>Invoice Amount:</b>	<b>\$32.52</b>
Flash Drives Per quote HBBQ513			<b>Check Date:</b>	<b>06/15/2016</b>
	101-201-727.000	<i>Transcend 64GB flash drv-TS64GJF350</i>		32.52
<b>CRIMBOLI LANDSCAPING, INC.</b>			<b>Invoice Amount:</b>	<b>\$26,425.00</b>
ARC Tree Planting Grant Purchase			<b>Check Date:</b>	<b>06/15/2016</b>
	101-691-973.060	<i>151 trees @ various pricing</i>		26,425.00
<b>G A INDUSTRIES INC</b>			<b>Invoice Amount:</b>	<b>\$825.99</b>
Quote - PRV Maint.			<b>Check Date:</b>	<b>06/15/2016</b>
	592-443-937.000	<i>R-12 Kit</i>		817.00
	592-443-937.000	<i>Shipping</i>		8.99



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<b>MICHIGAN METER TECHNOLOGY GRP INC</b>		<b>Invoice Amount:</b>	<b>\$4,800.00</b>
Meters - per Quote 7058 dated 4/11/16		<b>Check Date:</b>	<b>06/15/2016</b>
592-172-780.000	5/8" x 3/4" ecoder meters		2,376.00
592-100-180.000	1" ecoder meters		2,424.00
<b>OFFICE DEPOT</b>		<b>Invoice Amount:</b>	<b>\$294.66</b>
Office supplies		<b>Check Date:</b>	<b>06/15/2016</b>
592-172-727.000	Smead viewable labels		26.79
592-172-727.000	Hanging Folders		10.58
592-172-727.000	Catalog envelopes		54.79
592-172-727.000	Clean seal catalog envelopes		17.99
592-172-727.000	3/8" paper clips		1.85
701-100-056.000	Sturdy Board foam boards 20 x 30		111.96
701-100-056.000	Sturdy Board foam boards 30 x 40		44.79
592-172-727.000	Rubber Bands		10.89
592-172-727.000	Sheet protectors		9.56
592-172-727.000	File folders		5.46
<b>SEHI COMPUTER PRODUCTS</b>		<b>Invoice Amount:</b>	<b>\$323.34</b>
Ink cart		<b>Check Date:</b>	<b>06/15/2016</b>
592-172-727.000	Ink Cartridges for Designjet		317.34
592-172-727.000	Freight		6.00
<b>SUNTEL SERVICES</b>		<b>Invoice Amount:</b>	<b>\$3,850.00</b>
Twp Mitel Phone System Annual Maintenance		<b>Check Date:</b>	<b>06/15/2016</b>
101-265-853.000	Twp Mitel Phone System Annual Maintenanc		1,769.45
226-226-853.000	Twp Mitel Phone System Annual Maintenanc		117.97
592-172-853.000	Twp Mitel Phone System Annual Maintenanc		471.86
101-305-853.000	Twp Mitel Phone System Annual Maintenanc		721.88
101-325-853.000	Twp Mitel Phone System Annual Maintenanc		309.54
101-336-853.000	Twp Mitel Phone System Annual Maintenanc		459.30
<b>SUPERIOR MEDICAL WASTE</b>		<b>Invoice Amount:</b>	<b>\$120.00</b>
medical waste pick up		<b>Check Date:</b>	<b>06/15/2016</b>
101-336-836.000	medical waste pick up		120.00
<b>CHRISTENSEN'S PLANT CENTER</b>		<b>Invoice Amount:</b>	<b>\$354.00</b>
16 yards of top soil		<b>Check Date:</b>	<b>06/15/2016</b>
101-691-931.000	Yards of top soil		284.00
101-691-931.000	Delivery fee		70.00
<b>SITEONE LANDSCAPE SUPPLY</b>		<b>Invoice Amount:</b>	<b>\$22.00</b>
Invoice Correction On Order Qty-- ORIGINAL PO		<b>Check Date:</b>	<b>06/15/2016</b>
101-691-931.000	Sod Staple Square Tie down		22.00
<b>SITEONE LANDSCAPE SUPPLY</b>		<b>Invoice Amount:</b>	<b>\$251.43</b>
Sprinkler Parts for Soccer Park and Ball Diamonds		<b>Check Date:</b>	<b>06/15/2016</b>
101-691-931.000	1 1/2" Globe/Angle Valve w/Fc		66.25
101-691-931.000	Hunter PGP 4" Adj rotor Blue Nozzles		162.74
101-691-931.000	4" Pop Up Spray Body		12.38
101-691-931.000	15ft Half Mpr Nozzle Rainbird		10.06
<b>MARK'S OUTDOOR POWER EQUIPMENT</b>		<b>Invoice Amount:</b>	<b>\$286.34</b>
ZeroTurn suspension arm & alternator repair		<b>Check Date:</b>	<b>06/15/2016</b>
101-691-931.000	Castor Kit		81.00
101-691-931.000	Bearting Sleeve		1.30
101-691-931.000	Brake cable		41.78

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	101-691-931.000	Ground Wire	3.00
	101-691-931.000	26x12-12 TR13 Valve L&G Trailer	15.26
	101-691-931.000	Labor Hours	144.00
<b>SPARTAN DISTRIBUTORS</b>		<b>Invoice Amount:</b>	<b>\$696.06</b>
Hydraulic Deck Motor		<b>Check Date:</b>	<b>06/15/2016</b>
	510-510-737.000	117-5141 Hydraulic Deck Motor	682.15
	510-510-737.000	Freight	13.91
<b>SPARTAN DISTRIBUTORS</b>		<b>Invoice Amount:</b>	<b>\$128.60</b>
Hose ASM and O' Ring		<b>Check Date:</b>	<b>06/15/2016</b>
	510-510-737.000	104-5505 Hose ASM	114.22
	510-510-737.000	237-80 O' Ring	1.38
	510-510-737.000	Freight	13.00
<b>SPARTAN DISTRIBUTORS</b>		<b>Invoice Amount:</b>	<b>\$110.30</b>
Hose ASM and MIssing Freight Charge from PO#		<b>Check Date:</b>	<b>06/15/2016</b>
	510-510-737.000	104-5504 Hose ASM	97.01
	510-510-737.000	Freight	13.29
<b>SPENCER OIL COMPANY</b>		<b>Invoice Amount:</b>	<b>\$915.54</b>
87 Oct Unl Gasoline		<b>Check Date:</b>	<b>06/15/2016</b>
	510-510-737.000	87 Oct UNL w/ 10% Ethanol	909.71
	510-510-737.000	Federal Lust Tax	0.51
	510-510-737.000	Federal Oil Spill Ethanol	0.87
	510-510-737.000	MI Environmental Fee	4.45
<b>OFFICE DEPOT</b>		<b>Invoice Amount:</b>	<b>\$499.99</b>
Office Supplies- Assessing		<b>Check Date:</b>	<b>06/15/2016</b>
	101-209-727.000	Shredder	499.99
<b>OFFICE DEPOT</b>		<b>Invoice Amount:</b>	<b>\$78.28</b>
Office Supplies- Assessing		<b>Check Date:</b>	<b>06/15/2016</b>
	101-209-727.000	Black Sharples	8.10
	101-209-727.000	Office pens	12.08
	101-209-727.000	Copy paper	58.10
<b>APOLLO FIRE EQUIPMENT</b>		<b>Invoice Amount:</b>	<b>\$329.29</b>
Fire Turn out Boots for D Atkins		<b>Check Date:</b>	<b>06/15/2016</b>
	101-336-758.000	FDXL-100 size 10 Boots	275.00
	101-336-758.000	Tetrahedron	44.64
	101-336-758.000	Freight	9.65
<b>APOLLO FIRE EQUIPMENT</b>		<b>Invoice Amount:</b>	<b>\$648.00</b>
foam		<b>Check Date:</b>	<b>06/15/2016</b>
	101-336-836.000	Fire Alde 2000 (5 gal cont)	648.00
<b>RAYHAVEN GROUP, INC.</b>		<b>Invoice Amount:</b>	<b>\$2,125.00</b>
ADA Compliant Yale 7100 CD-36" Rim Exit Device		<b>Check Date:</b>	<b>06/15/2016</b>
	101-851-971.000	Yale 7100 CD-36" Rim Exit Device with la	2,125.00
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$194.98</b>
Uniform Equip/Hinkle Inv. 60046 4/11/16		<b>Check Date:</b>	<b>06/15/2016</b>
	101-305-758.000	Rain Parka	119.99
	101-305-758.000	Rain Pants	74.99
<b>ALPHAGRAPHS #336</b>		<b>Invoice Amount:</b>	<b>\$540.85</b>
CTOP printed envelopes, 10,000		<b>Check Date:</b>	<b>06/15/2016</b>

## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

	101-215-727.000	CTOP envelopes, 24#, #10 bond smooth	540.85
<b>APOLLO FIRE EQUIPMENT</b>			<b>Invoice Amount: \$264.56</b>
Helmet-Gross			<b>Check Date: 06/15/2016</b>
	101-336-758.000	#1010 Red Helmet	264.56
<b>B &amp; F AUTO SUPPLY INC</b>			<b>Invoice Amount: \$46.98</b>
antifreeze			<b>Check Date: 06/15/2016</b>
	101-336-863.000	antifreeze	46.98
<b>B &amp; F AUTO SUPPLY INC</b>			<b>Invoice Amount: \$15.74</b>
Auto Cleaning Supplies Inv. 501753			<b>Check Date: 06/15/2016</b>
	101-305-863.000	Armor All 10160	7.06
	101-305-863.000	Armor All 78513	4.34
	101-305-863.000	Bleche White	4.34
<b>B &amp; R JANITORIAL SUPPLY</b>			<b>Invoice Amount: \$579.44</b>
Supplies			<b>Check Date: 06/15/2016</b>
	101-265-776.000	Supplies	260.75
	101-265-858.000	Supplies	17.38
	101-305-776.000	Supplies	144.86
	101-325-727.000	Supplies	57.94
	101-336-776.000	Supplies	11.59
	592-172-776.000	Supplies	86.92
<b>B &amp; R JANITORIAL SUPPLY</b>			<b>Invoice Amount: \$1,458.40</b>
CLEAN HARD SERFACE FLOORS			<b>Check Date: 06/15/2016</b>
	101-265-776.000	INV 172113	1,458.40
<b>CDW GOVERNMENT INC</b>			<b>Invoice Amount: \$35.30</b>
Flash Drives Per quote HCDW417			<b>Check Date: 06/15/2016</b>
	101-171-727.000	Transcend 4GB flash drv-TS4GJF300	35.30
<b>CINTAS CORPORATION - 300</b>			<b>Invoice Amount: \$92.85</b>
Mat cleaning for Police Department Inv. 3005120			<b>Check Date: 06/15/2016</b>
	101-305-776.000	3 x 10 brown mats	55.02
	101-305-776.000	4 x 6 brown mats	29.84
	101-305-776.000	Service charge	7.99
<b>CRITTER CONTROL</b>			<b>Invoice Amount: \$269.00</b>
Commercial Wildlife Services - Raccoon Trapping			<b>Check Date: 06/15/2016</b>
	101-305-819.000	Case #16-3065	269.00
<b>GOODYEAR WHOLESale</b>			<b>Invoice Amount: \$1,533.60</b>
Tires for patrol vehicles Inv. #43128406 4/22/16			<b>Check Date: 06/15/2016</b>
	101-305-863.000	245/55R18 Tires	1,533.60
<b>GOODYEAR WHOLESale</b>			<b>Invoice Amount: \$780.06</b>
Tires for patrol vehicles Inv. 43031972 3/25/16			<b>Check Date: 06/15/2016</b>
	101-305-863.000	P245/65R17 Tires	780.06
<b>GOODYEAR WHOLESale</b>			<b>Invoice Amount: \$1,533.60</b>
Tires for patrol vehicles Inv. #43236558 5/24/16			<b>Check Date: 06/15/2016</b>
	101-305-863.000	245/55R18 Tires	1,533.60
<b>HALT FIRE INC</b>			<b>Invoice Amount: \$541.25</b>
E1 repair			<b>Check Date: 06/15/2016</b>

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	101-336-863.000	E1 fixed voltage to headset	541.25
<b>RICOH USA, INC.</b>			<b>Invoice Amount: \$20.68</b>
Maint Agreement/Ricoh Inv. 5041614125 4/17/16	101-305-851.000	Billing Period 1/17/16 - 4/16/16	<b>Check Date: 06/15/2016</b>
			20.68
<b>J &amp; B MEDICAL SUPPLY INC</b>			<b>Invoice Amount: \$124.92</b>
medical supplies	101-336-836.000	AMBOOO-172-713 CO2 DET	<b>Check Date: 06/15/2016</b>
			124.92
<b>KONICA MINOLTA BUSINESS SOLUTIONS</b>			<b>Invoice Amount: \$75.37</b>
Maint Agreee/Konica copier Inv. 9002358452 4/25/	101-305-851.000	Billing Period 3/26/16 - 4/25/16.	<b>Check Date: 06/15/2016</b>
			75.37
<b>KWICKY TEE</b>			<b>Invoice Amount: \$280.00</b>
Plymouth Township Police Records Embroidered P	101-305-758.000	Records Division Polos	<b>Check Date: 06/15/2016</b>
			280.00
<b>LAIRD GLASS &amp; UPHOLSTERY, INC.</b>			<b>Invoice Amount: \$242.00</b>
Replacement of Windshield Unit 13-1 Inv. 2105 5/	101-305-863.000	New Windshield	<b>Check Date: 06/15/2016</b>
			242.00
<b>MACP</b>			<b>Invoice Amount: \$115.00</b>
2016 Membership Dues for Chief Tiderington Inv.	101-305-958.000	Active Voting Membership Dues	<b>Check Date: 06/15/2016</b>
			115.00
<b>MAIN STREET AUTO WASH</b>			<b>Invoice Amount: \$540.00</b>
Police Vehicle Car Washes	101-305-863.000	March washes	<b>Check Date: 06/15/2016</b>
	101-305-863.000	April washes	190.00
	101-305-863.000	May washes	230.00
			120.00
<b>OAKLAND COMMUNITY COLLEGE</b>			<b>Invoice Amount: \$380.00</b>
Emergency Fire Dispatch Training/Kris Clark Inv.	101-325-960.000	EFD Training 5-9-16 - 5-11-16	<b>Check Date: 06/15/2016</b>
			380.00
<b>OFFICE DEPOT</b>			<b>Invoice Amount: \$50.34</b>
office supplies	101-336-727.000	file box 570600	<b>Check Date: 06/15/2016</b>
	101-336-727.000	folders 0810846	23.14
	101-336-727.000	pens BICVCG11BK	7.44
	101-336-727.000	PENS 0524912	9.99
			9.77
<b>OFFICE DEPOT</b>			<b>Invoice Amount: \$84.60</b>
office supplies	101-336-727.000	0212041 Binders	<b>Check Date: 06/15/2016</b>
	101-336-727.000	0524912 papermate Elite	34.16
	101-336-727.000	0127270 Staple Removers (box of 3)	48.85
			1.59
<b>OFFICEMAX INCORPORATED</b>			<b>Invoice Amount: \$237.36</b>
Police Dept. Office Supplies Inv. 588979 5/11/16	101-305-727.000	Misc Office Supplies	<b>Check Date: 06/15/2016</b>
			237.36
<b>OFFICEMAX INCORPORATED</b>			<b>Invoice Amount: \$129.60</b>
Office Supplies (DVD-R's) Inv. 601382 5/11/16	101-305-727.000	DVD-R's	<b>Check Date: 06/15/2016</b>
			129.60

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<b>OFFICEMAX INCORPORATED</b>		<b>Invoice Amount:</b>	<b>\$62.92</b>
Office Supplies (Records) Inv. 601383 5/11/16		<b>Check Date:</b>	<b>06/15/2016</b>
101-305-727.000	Black cartridges		62.92
<b>PSTGP, LLC (PROFESSIONAL POLICE)</b>		<b>Invoice Amount:</b>	<b>\$300.00</b>
Police Supervisor Legal Liability Trg. Sgts. Fetner		<b>Check Date:</b>	<b>06/15/2016</b>
101-305-960.000	Police Supervisor Legal Liability Trg.		300.00
<b>PLYMOUTH-CANTON COMMUNITY SCHOOLS</b>		<b>Invoice Amount:</b>	<b>\$3,562.52</b>
April Fuel Invoice Inv. #000967 5/19/16		<b>Check Date:</b>	<b>06/15/2016</b>
101-305-863.000	Patrol Vehicles		3,482.91
101-325-963.000	PSA Vehicle		79.61
<b>PLYMOUTH-CANTON COMMUNITY SCHOOLS</b>		<b>Invoice Amount:</b>	<b>\$45.41</b>
Fuel		<b>Check Date:</b>	<b>06/15/2016</b>
101-336-863.000	Fuel purchase		45.41
<b>PLYMOUTH-CANTON COMMUNITY SCHOOLS</b>		<b>Invoice Amount:</b>	<b>\$256.79</b>
APRIL FUEL		<b>Check Date:</b>	<b>06/15/2016</b>
101-371-863.000	APRIL 2016 FUEL		256.79
<b>PRINTING SYSTEMS INC</b>		<b>Invoice Amount:</b>	<b>\$525.18</b>
AV Ballot Outer Envelopes		<b>Check Date:</b>	<b>06/15/2016</b>
101-262-727.000	AV Ballot Outer Envelopes - 3500		525.18
<b>PRINTING SYSTEMS INC</b>		<b>Invoice Amount:</b>	<b>\$541.12</b>
AV Ballot Return Envelopes		<b>Check Date:</b>	<b>06/15/2016</b>
101-262-727.000	AV Ballot Return Envelopes - 4000		541.12
<b>PROVANTAGE, LLC</b>		<b>Invoice Amount:</b>	<b>\$422.00</b>
SCANSNAP IX500 QUOTE #7012643		<b>Check Date:</b>	<b>06/15/2016</b>
101-253-727.000	(FUJ5066) PA03656-BO05 SCANSNAP IX500		412.00
101-253-727.000	SHIPPING		10.00
<b>RED WING SHOES</b>		<b>Invoice Amount:</b>	<b>\$134.99</b>
RED WING SHOES		<b>Check Date:</b>	<b>06/15/2016</b>
101-371-727.000	BOOTS, DAVE HAACK		134.99
<b>SURE-FIT LAUNDRY CO.</b>		<b>Invoice Amount:</b>	<b>\$15.75</b>
Prisoner Blanket Cleaning Inv. 361752 4/28/16		<b>Check Date:</b>	<b>06/15/2016</b>
101-325-851.000	Blanket Cleaning		15.75
<b>SURE-FIT LAUNDRY CO.</b>		<b>Invoice Amount:</b>	<b>\$15.75</b>
Prisoner Blanket Cleaning Inv. 362105 5/5/16		<b>Check Date:</b>	<b>06/15/2016</b>
101-325-851.000	Blanket cleaning		15.75
<b>SURE-FIT LAUNDRY CO.</b>		<b>Invoice Amount:</b>	<b>\$22.50</b>
Prisoner Blanket Cleaning Inv. 361031 4/14/16		<b>Check Date:</b>	<b>06/15/2016</b>
101-325-851.000	Blanket cleaning		22.50
<b>TIDERINGTON, SCOTT</b>		<b>Invoice Amount:</b>	<b>\$196.40</b>
Reimbursement for Hotel Accomodations 5/4/16-		<b>Check Date:</b>	<b>06/15/2016</b>
101-305-960.000	Reimbursement for lodging for training		196.40
<b>WAYNE CO.ASSOC.OF CHIEFS OF POLICE</b>		<b>Invoice Amount:</b>	<b>\$40.00</b>
2016 Membership Dues for Chief Tiderington		<b>Check Date:</b>	<b>06/15/2016</b>
101-305-958.000	Wayne County Chief's Assoc. Dues		40.00



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<b>WEST SHORE SERVICES INC</b> Service Call - Site #7 Inv. 22442 4/22/16 101-315-951.000 Job #6161148	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$907.47</b> <b>06/15/2016</b> 907.47
<b>WEST METRO/ACME GARAGE DOOR</b> Sally Port Door Repair Inv. 4259069 5/31/16 101-305-776.000 Door repair	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$318.50</b> <b>06/15/2016</b> 318.50
<b>ALLIE BROTHERS UNIFORMS</b> Uniforms-Pieknik 101-336-758.000 Pants 101-336-758.000 LS shirts	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$195.96</b> <b>06/15/2016</b> 99.98 95.98
<b>ALLIE BROTHERS UNIFORMS</b> Uniform Equip/Bartram Inv. 60526 5/18/16 101-305-758.000 Cargo Pants 101-305-758.000 L/S Shirt 101-305-758.000 Double Cuff Case 101-305-758.000 Gloves	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$246.95</b> <b>06/15/2016</b> 119.98 46.99 34.99 44.99
<b>C. M. P. DISTRIBUTORS, INC.</b> Simunition 5320779 9mm FX Non-Marking Cartrid 101-305-960.000 Simunition 5320779 9mm 101-305-960.000 Shipping and Handling	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$272.00</b> <b>06/15/2016</b> 257.00 15.00
<b>CORRIGAN OIL COMPANY</b> Fuel 592-291-863.000 No lead fuel 400 gals @ \$1.9364 592-291-863.000 Diesel fuel 300 gals @ \$2.1081 592-291-863.000 Fuel tax recap	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$1,415.07</b> <b>06/15/2016</b> 774.56 632.43 8.08
<b>HINES PARK LINCOLN MERCURY</b> Vehicle Repair/106437 Inv. C46892 2/23/16 101-305-863.000 Vehicle Repair/106437 (DEA Vehicle)	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$969.65</b> <b>06/15/2016</b> 969.65
<b>HINES PARK LINCOLN MERCURY</b> Vehicle Repair/157877 Inv. C51394 4/6/16 101-305-863.000 Vehicle Repair/157877	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$47.03</b> <b>06/15/2016</b> 47.03
<b>HINES PARK LINCOLN MERCURY</b> Vehicle Repair/143167 4/5/16 101-305-863.000 Vehicle Repair/143167	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$102.58</b> <b>06/15/2016</b> 102.58
<b>HINES PARK LINCOLN MERCURY</b> Vehicle Repair/C41291 Inv. C51187 4/4/16 101-305-863.000 Vehicle Repair/C41291	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$23.95</b> <b>06/15/2016</b> 23.95
<b>HINES PARK LINCOLN MERCURY</b> Vehicle Repair/C41291 Inv. C51071 4/2/16 101-305-863.000 Vehicle Repair/C41291	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$119.95</b> <b>06/15/2016</b> 119.95
<b>HINES PARK LINCOLN MERCURY</b> Vehicle Repair/124315 Inv. C50953 4/1/16 101-305-863.000 Vehicle Repair/124315	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$58.95</b> <b>06/15/2016</b> 58.95

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<b>HINES PARK LINCOLN MERCURY</b> Vehicle Repair/143168 Inv. C50950 4/1/16 <i>101-305-863.000</i>	<i>Vehicle Repair/143168</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$234.32</b> <b>06/15/2016</b> <i>234.32</i>
<b>HINES PARK LINCOLN MERCURY</b> Vehicle Repair/C41292 Inv. C50885 3/31/16 <i>101-305-863.000</i>	<i>Vehicle Repair/C41292</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$12.50</b> <b>06/15/2016</b> <i>12.50</i>
<b>HINES PARK LINCOLN MERCURY</b> Vehicle Repair/A94167 Inv. C50107 3/29/16 <i>101-305-863.000</i>	<i>Vehicle Repair/A94167 (PSA Vehicle)</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$640.24</b> <b>06/15/2016</b> <i>640.24</i>
<b>HUMANE SOCIETY OF HURON VALLEY</b> April Stray Impound Services Inv. PLYTWP042016 <i>101-305-832.000</i>	<i>April Impound Services</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$50.00</b> <b>06/15/2016</b> <i>50.00</i>
<b>JACHYM, HARRY</b> Mileage reimbursement Jan-Apr2016 <i>805-805-970.005</i> <i>805-805-970.005</i>	<i>Sidewalk Inspections mileage</i> <i>Marking paint</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$88.78</b> <b>06/15/2016</b> <i>72.90</i> <i>15.88</i>
<b>Kline, Anne</b> Reimbursement for Notary Fees/Wayne County Cl <i>101-305-727.000</i>	<i>Notary fees paid to the Wayne County.</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$10.00</b> <b>06/15/2016</b> <i>10.00</i>
<b>LIVONIA, CITY OF</b> Response to Active Shooter - Sgt. Fetner Inv. 201 <i>101-305-960.000</i>	<i>Training - May 3, 2016</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$35.00</b> <b>06/15/2016</b> <i>35.00</i>
<b>NORTHERN CONTROLS GROUP, INC</b> Booster Station <i>592-291-785.000</i>	<i>Ply Twp Control System Service</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$368.08</b> <b>06/15/2016</b> <i>368.08</i>
<b>NORTHVILLE CAR WASH, INC.</b> Police Department Car Washes <i>101-305-863.000</i>	<i>March, April and May car washes</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$60.00</b> <b>06/15/2016</b> <i>60.00</i>
<b>OFFICEMAX INCORPORATED</b> Swingline Cross-Cut Shredder <i>101-305-727.000</i>	<i>Swingline Cross-Cut Shredder for Records</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$677.60</b> <b>06/15/2016</b> <i>677.60</i>
<b>PSTGP, LLC (PROFESSIONAL POLICE)</b> Non-Destructive Entry Trg. Ofc's Coffell & Smither <i>101-305-960.000</i>	<i>Non-Destructive Entry Trg.</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$950.00</b> <b>06/15/2016</b> <i>950.00</i>
<b>PARAGON LABORATORIES</b> Water Testing <i>592-172-818.000</i>	<i>Water Testing</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$157.50</b> <b>06/15/2016</b> <i>157.50</i>
<b>PARKWAY SERVICES INC.</b> HHW PORTABLE TOILETS <i>226-226-810.000</i>	<i>2 UNITS W/HAND SANITIZERS</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$190.00</b> <b>06/15/2016</b> <i>190.00</i>
<b>PROGRESSIVE PRINTING</b> HHW FLYERS <i>226-226-810.000</i>	<i>HHW POSTCARD PRINTING/DELIVERED TO PO</i>	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$901.00</b> <b>06/15/2016</b> <i>901.00</i>

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<b>RUPARD, BRYAN</b>		<b>Invoice Amount:</b>	<b>\$1,149.69</b>
Tuition Reimbursement - Baker College 3-31-16 -		<b>Check Date:</b>	<b>06/15/2016</b>
101-305-960.000	Tuition Reimbursement		960.00
101-305-960.000	Book Reimbursement		189.69
<b>SCHOOLCRAFT COLLEGE</b>		<b>Invoice Amount:</b>	<b>\$600.00</b>
EVO Refresher Training - 4-21-16 Inv. 01922 5/2		<b>Check Date:</b>	<b>06/15/2016</b>
101-305-960.000	Coffell, Fetner, McParland and Ripp		600.00
<b>SCHOOLCRAFT COLLEGE</b>		<b>Invoice Amount:</b>	<b>\$700.00</b>
Emergency Vehicle Instructor Course - Officer Smi		<b>Check Date:</b>	<b>06/15/2016</b>
101-305-960.000	Training - 5-16-16 - 5-20-16		700.00
<b>SITE ONE LANDSCAPE SUPPLY</b>		<b>Invoice Amount:</b>	<b>\$283.81</b>
Landscape supplies/restoration supplies		<b>Check Date:</b>	<b>06/15/2016</b>
592-291-935.000	Seed		111.69
101-691-931.000	4" Adj Rotor Blue Nozzles		162.74
101-691-931.000	Spray Head Rainbird		9.38
<b>SURE-FIT LAUNDRY CO.</b>		<b>Invoice Amount:</b>	<b>\$15.75</b>
Prisoner Blanket Cleaning Inv. 362450 5/12/16		<b>Check Date:</b>	<b>06/15/2016</b>
101-325-851.000	Blanket Cleaning		15.75
<b>SURE-FIT LAUNDRY CO.</b>		<b>Invoice Amount:</b>	<b>\$29.25</b>
Prisoner Blanket Cleaning Inv. 362830 5/19/16		<b>Check Date:</b>	<b>06/15/2016</b>
101-325-851.000	Blanket cleaning		29.25
<b>SURE-FIT LAUNDRY CO.</b>		<b>Invoice Amount:</b>	<b>\$22.50</b>
Prisoner Blanket Cleaning Inv. 363179 5/26/16		<b>Check Date:</b>	<b>06/15/2016</b>
101-325-851.000	Blanket Cleaning		22.50
<b>TACTICAL ENCOUNTERS INC.</b>		<b>Invoice Amount:</b>	<b>\$600.00</b>
AR15/M4 Instructor Course - Officer Hinkle Inv. 1		<b>Check Date:</b>	<b>06/15/2016</b>
101-305-960.000	AR Instructor Training		600.00
<b>United Resource</b>		<b>Invoice Amount:</b>	<b>\$1,440.00</b>
Bid proposal dated 5/10/16 - Sewer Clean and TV		<b>Check Date:</b>	<b>06/15/2016</b>
592-291-938.000	Equipment & personnel sewer clean&TV		1,440.00
<b>VANCE'S LAW ENFORCEMENT</b>		<b>Invoice Amount:</b>	<b>\$1,350.00</b>
Ammunition for 2016		<b>Check Date:</b>	<b>06/15/2016</b>
101-305-960.000	Winchester .45 ACP 230 gr FMJ Q4170		1,350.00
<b>VIGNOE, SUSAN</b>		<b>Invoice Amount:</b>	<b>\$167.94</b>
MILEAGE APRIL AND MAY 2016		<b>Check Date:</b>	<b>06/15/2016</b>
226-226-727.000	MILEAGE APRIL AND MAY 2016		167.94
<b>VIGNOE, SUSAN</b>		<b>Invoice Amount:</b>	<b>\$52.78</b>
ROUGE RESCUE EXPENSES		<b>Check Date:</b>	<b>06/15/2016</b>
226-226-727.000	ROUGE RESCUE FOOD AND SUPPLIES		52.78
<b>Bankers Advertising Company</b>		<b>Invoice Amount:</b>	<b>\$1,043.00</b>
HHW FLAG REPLACEMENTS		<b>Check Date:</b>	<b>06/15/2016</b>
226-226-810.000	13' SWOOPER FLAGS W/GROUND STAKES		968.00
226-226-810.000	SHIPPING ESTIMATE		75.00

**Charter Township of Plymouth  
AP Invoice Listing - Board Report**

**VENDOR INFORMATION****INVOICE INFORMATION****LOEWE PAINTING CO.**

Painting at Township Hall building

*101-265-776.000**BID, MAY9, 2016***Invoice Amount:****\$3,160.00****Check Date:****06/15/2016***3,160.00***Total Amount to be Disbursed:****\$149,011.22**

## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

<b>ALERUS FINANCIAL</b> Define Contribution 5/13/2016	101-325-714.050 101-100-231.000	Define Contribution 5/13/2016 Employee Cont 5/13/2016	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$707.54</b> <b>06/08/2016</b> 435.66 271.88
<b>ALERUS FINANCIAL</b> Define Contribution 5/27/2016	101-325-714.050 101-100-231.000	Define Contribution 5/27/2016 Employee Cont 5/27/2016	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$707.54</b> <b>06/08/2016</b> 435.66 271.88
<b>BUONO, DUANE</b> MAY 2016 MECH INSP PAY	101-371-818.000	MAY 2016 MECH INSP PAY	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$2,635.75</b> <b>06/08/2016</b> 2,635.75
<b>HEILEMAN, JAMES</b> MAY 2016 ELEC INSP PAY	101-371-818.000	MAY 2016 ELEC INSP PAY	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$2,956.25</b> <b>06/08/2016</b> 2,956.25
<b>KNIGHT TECHNOLOGY GROUP, INC.</b> Firewall Monitoring June 2016	101-290-941.000	Firewall Monitoring June 2016	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$100.00</b> <b>06/08/2016</b> 100.00
<b>MUNSON, STEVE</b> MAY 2016 PLBG INSP PAY	101-371-818.000	MAY 2016 PAY	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$1,529.50</b> <b>06/08/2016</b> 1,529.50
<b>PLYMOUTH POSTMASTER</b> Permit 330 Postage	101-262-730.000	Permit 330 Postage	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$2,000.00</b> <b>06/08/2016</b> 2,000.00
<b>UPS</b> UPS Mailings	101-171-727.000 101-262-727.000	Supervisor mailings Clerk mailing	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$16.31</b> <b>06/08/2016</b> 11.44 4.87
<b>APEX SOFTWARE</b> Apex Sketching Software Annual Maintenance Re	101-209-727.000	Apex Sketching Software Annual Maintenanc	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$1,230.00</b> <b>06/08/2016</b> 1,230.00
<b>ADP INC</b> Payroll processing 5/22/2016	101-290-941.000	Payroll processing 5/22/2016	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$729.80</b> <b>06/08/2016</b> 729.80
<b>FELLRATH, PATRICK</b> Mileage May 2016	592-172-727.000	Mileage May 2016	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$158.22</b> <b>06/08/2016</b> 158.22
<b>I.A.F.F. - LOCAL 1496</b> IAFF Union Dues - May 2016	101-100-232.020 101-100-232.020 101-100-232.020 101-100-232.020 101-100-232.020 101-100-232.020 101-100-232.020 101-100-232.020	Atkins, Daniel L. Bukts, Peter J. Conely, Patrick Conroy, William J. Culver, Ean G. Fox, David R. Gross, Scott Paul Haller, Christopher M.	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$2,130.00</b> <b>06/08/2016</b> 110.00 110.00 110.00 150.00 110.00 110.00 110.00



## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

101-100-232.020	Harrell, James M.	110.00
101-100-232.020	Kohl, Robert S.	110.00
101-100-232.020	Mack, Christopher	110.00
101-100-232.020	Mallari, Jeffery G.	110.00
101-100-232.020	Mangan, Gregory	110.00
101-100-232.020	Mann, Charles H.	110.00
101-100-232.020	Pickert, Douglas	110.00
101-100-232.020	Randall, Jeffrey	110.00
101-100-232.020	Smith, Christopher B.	110.00
101-100-232.020	Tefend, Ricky L.	110.00
101-100-232.020	Villet, Guy	110.00

**M E R S**

MERS May 2016 FIRE WH

**Invoice Amount: \$22,315.97****Check Date: 06/08/2016**

101-100-231.020	ATKINS	2,030.34
101-100-231.020	BUKIS	1,400.02
101-100-231.020	CONELY	1,512.70
101-100-231.020	CONROY	1,399.46
101-100-231.020	FOX	1,596.68
101-100-231.020	GROSS	1,420.54
101-100-231.020	HARRELL	1,266.69
101-100-231.020	MACK	1,613.64
101-100-231.020	MALLARI	1,427.73
101-100-231.020	MANGAN	1,470.07
101-100-231.020	MANN	1,442.41
101-100-231.020	PHILLIPS	1,868.67
101-100-231.020	RANDALL	1,255.13
101-100-231.020	TEFEND	1,356.80
101-100-231.020	VILLET	1,255.09

**M E R S**

M E R S May 2016

**Invoice Amount: \$5,069.00****Check Date: 06/08/2016**

101-100-231.050	BEREZAK	547.79
101-100-231.050	BULMER	547.03
101-100-231.050	CLARK	545.07
101-100-231.050	CROWE	571.55
101-100-231.050	FELL	617.89
101-100-231.050	INNES	545.07
101-100-231.050	SMITH	547.62
101-100-231.050	TURLEY	565.51
101-100-231.050	YUDT	581.47

**M E R S**

MERS May 2016 FIRE WH

**Invoice Amount: \$9,338.91****Check Date: 06/08/2016**

101-100-231.020	ATKINS	849.67
101-100-231.020	BUKIS	585.89
101-100-231.020	CONELY	633.04
101-100-231.020	CONROY	585.66
101-100-231.020	FOX	668.19
101-100-231.020	GROSS	594.47
101-100-231.020	HARRELL	530.09
101-100-231.020	MACK	675.29
101-100-231.020	MALLARI	597.49
101-100-231.020	MANGAN	615.20
101-100-231.020	MANN	603.62
101-100-231.020	PHILLIPS	782.00
101-100-231.020	RANDALL	525.26
101-100-231.020	TEFEND	567.80

## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

VENDOR INFORMATION	INVOICE INFORMATION	Invoice Amount:	Check Date:
	101-100-231.020 VILLET	525.24	
<b>MERS</b>		<b>\$4,033.84</b>	<b>06/08/2016</b>
MERS May 2016DISPATCH WH			
	101-100-231.000 BEREZAK	435.92	
	101-100-231.000 BULMER	435.32	
	101-100-231.000 CLARK	433.76	
	101-100-231.000 CROWE	454.83	
	101-100-231.000 FELL	491.71	
	101-100-231.000 INNES	433.76	
	101-100-231.000 SMITH	435.79	
	101-100-231.000 TURLEY	450.03	
	101-100-231.000 YUDT	462.72	
<b>MERS</b>		<b>\$29,749.86</b>	<b>06/08/2016</b>
MERS May 2016			
	101-305-714.030 Antal	1,480.34	
	101-305-714.030 Bartram	792.76	
	101-305-714.030 Brothers	1,480.34	
	101-305-714.030 Cheston	1,271.89	
	101-305-714.030 Cioma	1,179.07	
	101-305-714.030 Coffell	1,039.82	
	101-305-714.030 Fetner	1,386.57	
	101-305-714.030 Fetter	1,024.82	
	101-305-714.030 Fritz	1,160.50	
	101-305-714.030 Haskin	923.89	
	101-305-714.030 Hayes	1,503.98	
	101-305-714.030 Hinkle	820.84	
	101-305-714.030 Hoffman	1,233.16	
	101-305-714.030 King	1,058.38	
	101-305-714.030 Krebs	1,262.73	
	101-305-714.030 Kudra	1,286.96	
	101-305-714.030 Linton	1,053.74	
	101-305-714.030 McParland	1,039.82	
	101-305-714.030 Ripp	1,137.29	
	101-305-714.030 Rozum	1,104.80	
	101-305-714.030 Rupard	1,039.82	
	101-305-714.030 Schemanske	987.64	
	101-305-714.030 Selpenko	1,480.80	
	101-305-714.030 Smitherman	971.11	
	101-305-714.030 Tidertington	1,285.82	
	101-305-714.030 Warring	742.97	
<b>MERS</b>		<b>\$11,124.41</b>	<b>06/08/2016</b>
MERS May 2016			
	101-100-231.030 Antal, Robert	553.54	
	101-100-231.030 Bartram, Brad	296.44	
	101-100-231.030 Brothers, Jon	553.54	
	101-100-231.030 Cheston, Steven	475.60	
	101-100-231.030 Cioma, Bradley	440.89	
	101-100-231.030 Coffell, Steven	388.82	
	101-100-231.030 Fetner, William	518.48	
	101-100-231.030 Fetter, Jeffrey	383.22	
	101-100-231.030 Fritz, Michael	433.94	
	101-100-231.030 Haskin	345.47	
	101-100-231.030 Hayes, Jeason	562.39	
	101-100-231.030 Hinkle, Michael	306.94	
	101-100-231.030 Hoffman, Marc	461.12	

## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

101-100-231.030	King, Caitlin	395.76
101-100-231.030	Krebs, Ryan	472.17
101-100-231.030	Kudra, Daniel	481.24
101-100-231.030	Linton, Marcy	394.03
101-100-231.030	McParland, Jeffrey	388.82
101-100-231.030	Ripp, Jason	425.27
101-100-231.030	Rozum, Charles	413.12
101-100-231.030	Rupard, Bryan	388.82
101-100-231.030	Schemanske, Jeremy	369.31
101-100-231.030	Selpenko, Todd	553.72
101-100-231.030	Smitherman, Joseph	363.13
101-100-231.030	Tiderington, Scott	480.81
101-100-231.030	Warring, Aaron	277.82

**MICHIGAN CONFERENCE OF TEAMSTERS**

Health insurance June 2016

592-100-123.000	Bartlett, James	1,463.20
592-100-123.000	Krueger, Randy	1,463.20
592-100-123.000	Melow, Steven	1,463.20
592-100-123.000	Overaltis, Joseph	1,463.20
592-100-123.000	Scholten, James	1,463.20
592-100-123.000	Thomas, James	1,463.20
592-100-123.000	Nelson, David	1,463.20

**Invoice Amount: \$10,242.40****Check Date: 06/08/2016****The Mike Cox Law Firm**

May 2016 City of Plymouth Fire Retiree Issue

101-336-826.000	May 2016 City of Plymouth Fire Retiree	5,605.00
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**Invoice Amount: \$5,605.00****Check Date: 06/08/2016****The Mike Cox Law Firm**

May 2016 DEHOCO Legal Fees

101-801-826.000	May 2016 DEHOCO Legal Fees	3,465.00
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**Invoice Amount: \$3,465.00****Check Date: 06/08/2016****NORTHVILLE, CHARTER TOWNSHIP OF**

G.D. Roberts Company LLC Real Estate Consulting

101-400-818.000	April 2016	170.00
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**Invoice Amount: \$170.00****Check Date: 06/08/2016****CHARTER TWSP OF PLYMOUTH**

Plymouth Township - Water/Sewer April 2016

101-171-921.000	Supervisor	37.70
101-201-921.000	Information Services	20.17
101-209-921.000	Assessors	10.79
101-215-921.000	Clerk	32.76
101-253-921.000	Treasurer	13.68
101-265-854.000	Senior Center	52.87
101-305-921.000	Law Enforcement	108.26
101-325-921.000	Communications	45.07
101-336-921.000	Fire	579.74
101-371-921.000	Building	23.73
101-400-921.000	Community Development	13.29
101-691-921.000	Park	352.37
226-226-921.000	Solid Waste	3.12
592-172-921.000	Admin / General Expense	160.60
510-510-737.000	Golf Course	238.84
592-444-745.000	Power and Pumping	52.87

**Invoice Amount: \$1,745.86****Check Date: 06/08/2016****VERIZON WIRELESS**

Twp Park Cell-April-May 2016

101-691-853.000	Twp Park Cell	213.45
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**Invoice Amount: \$213.45****Check Date: 06/08/2016**

## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

<b>WCA ASSESSING</b>			<b>Invoice Amount:</b>	<b>\$18,278.17</b>
Appraisal Services Rendered June 2016			<b>Check Date:</b>	<b>06/08/2016</b>
	101-209-818.000	Appraisal Services Rendered		18,121.50
	101-209-818.000	Co-Star Services		156.67
<b>Great Lakes Water Authority</b>			<b>Invoice Amount:</b>	<b>\$301,592.86</b>
April 2016			<b>Check Date:</b>	<b>06/08/2016</b>
	592-441-743.000	April 2016		301,592.86
<b>ZAUSMER, AUGUST &amp; CALDWELL, P.C.</b>			<b>Invoice Amount:</b>	<b>\$4,286.14</b>
Professional Services through 4/30/2016			<b>Check Date:</b>	<b>06/08/2016</b>
	101-290-826.000	Professional Services through 4/30/2016		4,286.14
<b>ADVANCED DISPOSAL</b>			<b>Invoice Amount:</b>	<b>\$56.62</b>
5/10/16 Resi Compost			<b>Check Date:</b>	<b>06/08/2016</b>
	226-226-810.000	5 yds resi compost 5/10/16		52.50
	226-226-810.000	Fuel Recovery Fee		4.12
<b>RIZZO ENVIRONMENTAL SERVICES</b>			<b>Invoice Amount:</b>	<b>\$390.00</b>
DPW RESI RECYCLE CENTER 05/02/16			<b>Check Date:</b>	<b>06/08/2016</b>
	226-226-810.000	20 YD PAPER AND 20 YD PLASTIC/GLASS/ETC		390.00
<b>RIZZO ENVIRONMENTAL SERVICES</b>			<b>Invoice Amount:</b>	<b>\$1,050.00</b>
TWP LOCATION CONTAINERS JUNE 2016			<b>Check Date:</b>	<b>06/08/2016</b>
	101-691-931.000	TWP PARK TRASH/RECYCLE/YDWSTE		415.00
	101-336-776.000	FIRE STATION 3 TRASH		40.00
	101-691-931.000	LAKE POINTE SOCCER PARK TRASH		85.00
	101-265-776.000	TWP HALL TRASH/RECYCLE		92.75
	101-305-776.000	TWP HALL TRASH/RECYCLE		66.00
	101-325-727.000	TWP HALL TRASH/RECYCLE		27.48
	101-336-776.000	TWP HALL TRASH/RECYCLE		9.72
	592-172-776.000	TWP HALL TRASH/RECYCLE		19.05
	592-172-776.000	DPW TRASH		85.00
	510-510-737.000	HILL TOP GOLF COURSE TRASH AND RECYCLE		195.00
	101-336-776.000	FIRE STATION 2		40.00
	101-691-931.000	BUILDING/GROUND MNT		(25.00)
			<b>Total Amount to be Disbursed:</b>	<b>\$443,628.40</b>

## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

<b>LEISURE PLAZA</b>			<b>Invoice Amount:</b>	<b>\$17,755.05</b>
Sum Tax Refund R-78-062-01-0020-310			<b>Check Date:</b>	<b>06/06/2016</b>
	703-000-202.000	ACCOUNTS PAYABLE		17,293.91
	703-000-202.000	ACCOUNTS PAYABLE		461.14
<b>GENERAL CT, LLC</b>			<b>Invoice Amount:</b>	<b>\$7,572.33</b>
Sum Tax Refund R-78-062-01-0005-000			<b>Check Date:</b>	<b>06/06/2016</b>
	703-000-202.000	ACCOUNTS PAYABLE		7,324.15
	703-000-202.000	ACCOUNTS PAYABLE		248.18
<b>VRSI</b>			<b>Invoice Amount:</b>	<b>\$5,523.11</b>
Sum Tax Refund P-78-999-00-2012-017			<b>Check Date:</b>	<b>06/06/2016</b>
	703-000-202.000	ACCOUNTS PAYABLE		5,523.11
<b>FLINT GROUP NORTH AMERICA CORP</b>			<b>Invoice Amount:</b>	<b>\$4,287.63</b>
Sum Tax Refund P-78-999-00-2008-073			<b>Check Date:</b>	<b>06/06/2016</b>
	703-000-202.000	ACCOUNTS PAYABLE		4,287.63
<b>FLINT GROUP NORTH AMERICA CORP</b>			<b>Invoice Amount:</b>	<b>\$2,237.26</b>
Win Tax Refund P-78-999-00-2008-073			<b>Check Date:</b>	<b>06/06/2016</b>
	703-000-202.000	ACCOUNTS PAYABLE		2,237.26
<b>ANDREW AND SARA KRUZ</b>			<b>Invoice Amount:</b>	<b>\$4,024.04</b>
Sum Tax Refund R-78-059-03-0144-000			<b>Check Date:</b>	<b>06/06/2016</b>
	703-000-202.000	ACCOUNTS PAYABLE		4,024.04
<b>UKRANIAN FUTURE CREDIT UNION</b>			<b>Invoice Amount:</b>	<b>\$2,194.93</b>
Win Tax Refund R-78-050-01-0027-000			<b>Check Date:</b>	<b>06/06/2016</b>
	703-000-202.000	ACCOUNTS PAYABLE		2,194.93
<b>JOHNSON ELECTRIC AUTOMOTIVE INC</b>			<b>Invoice Amount:</b>	<b>\$13,715.98</b>
Sum Tax Refund I-78-998-01-9801-082			<b>Check Date:</b>	<b>06/06/2016</b>
	703-000-202.000	ACCOUNTS PAYABLE		13,175.25
	703-000-202.000	ACCOUNTS PAYABLE		540.73
<b>JOHNSON ELECTRIC AUTOMOTIVE INC</b>			<b>Invoice Amount:</b>	<b>\$2,495.15</b>
Win Tax Refund I-78-998-01-9801-082			<b>Check Date:</b>	<b>06/06/2016</b>
	703-000-202.000	ACCOUNTS PAYABLE		2,462.18
	703-000-202.000	ACCOUNTS PAYABLE		32.97
			<b>Total Amount to be Disbursed:</b>	<b>\$59,805.48</b>



## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

<b>ALLIED SUBSTANCE ABUSE PROFESSIONAL</b>			<b>Invoice Amount:</b>	<b>\$38.00</b>
Drug Test			<b>Check Date:</b>	<b>06/01/2016</b>
	592-172-727.000	James Bartlett		38.00
<b>PELTZ SODDING</b>			<b>Invoice Amount:</b>	<b>\$231.60</b>
Sod			<b>Check Date:</b>	<b>06/01/2016</b>
	592-291-935.000	Sod		211.60
	592-291-935.000	Pallet with deposit		20.00
<b>PLYMOUTH POSTMASTER</b>			<b>Invoice Amount:</b>	<b>\$2,000.00</b>
Postage			<b>Check Date:</b>	<b>06/01/2016</b>
	592-172-730.000	Permit #218 May 2016		2,000.00
<b>PLYMOUTH URGENT CARE</b>			<b>Invoice Amount:</b>	<b>\$160.00</b>
Pre-employment			<b>Check Date:</b>	<b>06/01/2016</b>
	592-172-727.000	Zachary Pumphrey		40.00
	592-172-727.000	Evan Paputa		40.00
	592-172-727.000	Sean Birney		40.00
	592-172-727.000	Stephen Harb		40.00
<b>RELIABLE LANDSCAPING INC.</b>			<b>Invoice Amount:</b>	<b>\$63.00</b>
DPW supplies - restoration			<b>Check Date:</b>	<b>06/01/2016</b>
	592-291-935.000	Topsoll - 3 yds		63.00
<b>VIGILANTE SECURITY</b>			<b>Invoice Amount:</b>	<b>\$105.00</b>
PRN Monitoring 5/15/16-8/14/16			<b>Check Date:</b>	<b>06/01/2016</b>
	592-172-818.000	15275 Northville Rd.		105.00
<b>VIGNOE, SUSAN</b>			<b>Invoice Amount:</b>	<b>\$97.27</b>
HHW FOOD AND SUPPLIES			<b>Check Date:</b>	<b>06/01/2016</b>
	226-226-727.000	BUSCHS \$76.20 AND HOME DEPOT \$21.07		97.27
<b>VAN BUREN ELECTRIC</b>			<b>Invoice Amount:</b>	<b>\$1,160.00</b>
Electrical service repair Sta #3			<b>Check Date:</b>	<b>06/01/2016</b>
	101-336-776.000	Rep damage at Fire Sta#3 by contractor		1,160.00
<b>A.S.C., INC</b>			<b>Invoice Amount:</b>	<b>\$468.00</b>
Quarterly Billing-Soccer Park 4/1/16-6/30/16			<b>Check Date:</b>	<b>06/01/2016</b>
	101-691-818.000	Quarterly Billing 4/1/2016-6*30/2016		468.00
<b>A T &amp; T</b>			<b>Invoice Amount:</b>	<b>\$23.08</b>
FS#3 Meterline			<b>Check Date:</b>	<b>06/01/2016</b>
	101-336-921.000	Meterline, April 2016		23.08
<b>COMCAST</b>			<b>Invoice Amount:</b>	<b>\$216.72</b>
Monthly Cable and Internet Township Hall			<b>Check Date:</b>	<b>06/01/2016</b>
	101-290-941.000	June 2016		216.72
<b>COMCAST</b>			<b>Invoice Amount:</b>	<b>\$134.85</b>
Internet 46555 Port Street			<b>Check Date:</b>	<b>06/01/2016</b>
	592-172-727.000	June 2016		134.85
<b>DTE ENERGY</b>			<b>Invoice Amount:</b>	<b>\$588.06</b>
Hilltop Golf Course Maintenance Shed-May 2016			<b>Check Date:</b>	<b>06/01/2016</b>
	510-510-737.000	Hilltop Golf Course Maintenance Shed-		588.06

## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

VENDOR INFORMATION		INVOICE INFORMATION	
<b>DTE ENERGY</b>		<b>Invoice Amount:</b>	<b>\$333.67</b>
Baseball Diamonds May 2016		<b>Check Date:</b>	<b>06/01/2016</b>
	101-691-921.000	Baseball Diamonds May 2016	333.67
<b>DTE ENERGY</b>		<b>Invoice Amount:</b>	<b>\$5,471.12</b>
Municipal Street Lighting		<b>Check Date:</b>	<b>06/01/2016</b>
	101-446-920.000	Municipal street lighting April 2016	5,471.12
<b>HARTFORD, THE</b>		<b>Invoice Amount:</b>	<b>\$6,260.11</b>
June 2016 Coverage		<b>Check Date:</b>	<b>06/01/2016</b>
	101-305-714.000	Antal	96.75
	101-336-714.000	Atkins	81.83
	592-172-716.000	Bartlett	56.55
	101-305-714.000	Bartram	59.55
	101-325-714.000	Berezak	64.54
	101-305-714.000	Brothers	96.75
	101-336-714.000	Bukis	75.30
	101-325-714.000	Bulmer	64.54
	101-305-714.000	Cheston	76.41
	101-305-714.000	Cloma	76.41
	101-325-714.000	Clark	64.54
	101-305-714.000	Coffell	76.41
	101-336-714.000	Conely	75.30
	101-336-714.000	Conroy	83.46
	101-215-714.000	Conzelman	96.75
	101-171-714.000	Coobatis	96.75
	592-172-716.000	Courter	73.06
	101-325-714.000	Crowe	64.54
	101-336-714.000	Culver	48.60
	101-305-714.000	Drake	(9.00)
	101-336-714.000	Duffy	(11.72)
	101-253-714.000	Edwards	96.75
	101-336-714.000	Ervin	3.16
	101-325-714.000	Fell	64.54
	592-172-716.000	Fellrath	96.75
	101-305-714.000	Fetner	86.95
	101-305-714.000	Fetter	78.04
	101-336-714.000	Fox	79.92
	101-305-714.000	Fritz	76.41
	101-305-714.000	Gordon	55.44
	101-336-714.000	Gross	81.83
	101-265-714.000	Haack	47.82
	101-336-714.000	Haller	49.38
	101-253-714.000	Hammye	64.04
	101-336-714.000	Harrell	75.30
	101-305-714.000	Haskin	56.36
	101-305-714.000	Hayes	76.41
	101-305-714.000	Hinkle	50.45
	101-305-714.000	Hoffman	83.00
	101-325-714.000	Innes	64.54
	101-201-714.000	Janks	96.75
	101-336-714.000	Jowsey	45.92
	101-305-714.000	King	60.30
	101-305-714.000	Krebs	86.95
	592-172-716.000	Krueger	58.86
	101-305-714.000	Kudra	86.95
	101-215-714.000	Kushner	89.08
	592-172-716.000	Latawiec	49.59

## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

101-215-714.000	LeClair	59.95
101-371-714.000	Lewis	95.16
101-305-714.000	Linton	76.41
101-215-714.000	Lozier	64.79
101-336-714.000	Mack	79.92
101-336-714.000	Mallari	75.30
101-336-714.000	Mangan	75.30
101-336-714.000	Mann	81.83
101-305-714.000	McParland	76.41
101-336-714.000	McCreedy	2.93
101-336-714.000	McCreedy	2.93
592-172-716.000	Melow	61.17
101-691-714.000	Mitchell	69.15
592-172-716.000	Overaltis	56.55
101-371-714.000	Palmarchuk	53.22
101-305-714.000	Pawlowski	45.92
101-336-714.000	Phillips	96.75
101-336-714.000	Pickert	48.60
101-171-714.000	Price	96.75
101-371-714.000	Pumphrey	59.95
101-400-714.000	Radtke	63.13
101-336-714.000	Randall	75.30
101-305-714.000	Ripp	76.41
101-325-714.000	Rodriguez	59.91
265-300-714.000	Rozum	76.41
101-305-714.000	Rupard	76.41
101-305-714.000	Schemanske	60.30
592-172-716.000	Scholten	52.40
101-305-714.000	Selpenko	86.95
101-336-714.000	Shaffer	2.93
101-336-714.000	Smith	48.60
101-325-714.000	Smith	64.54
101-305-714.000	Smitherman	69.17
592-172-716.000	Snell	49.59
101-336-714.000	Tefend	79.92
592-172-716.000	Thomas	51.95
101-305-714.000	Tiderington	76.41
101-305-714.000	Tiderington	96.75
101-325-714.000	Turley	64.54
226-226-714.000	Vignoe	59.95
101-336-714.000	Villet	75.30
592-172-716.000	Visel	47.65
101-171-714.000	Wallace	70.75
101-305-714.000	Warring	56.36
101-325-714.000	Yudt	64.54
101-336-714.000	Azar	2.93
101-336-714.000	Johnson	2.93
101-336-714.000	LaPointe	2.93
101-336-714.000	Murphy	2.93
592-172-716.000	Nelson	45.04
101-336-714.000	Kohl	49.38

**HEMMING,POLACZYK,CRONIN,SMITH,**  
Legal Services April 2016

**Invoice Amount: \$13,135.33**  
**Check Date: 06/01/2016**

101-305-826.000	Ordinance Prosecutions	5,794.95
101-801-826.000	Community Development	3,268.13
101-290-826.000	Admin	3,228.75
101-290-826.000	Misc.	3.50

## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

	592-172-830.000	Public Services	157.50
	592-172-830.000	Water & Sewer	682.50
<b>JOHN HANCOCK LIFE INSURANCE CO.</b>		<b>Invoice Amount:</b>	<b>\$13,708.20</b>
EMPLOYER MATCH PAYROLL 5/27/2016		<b>Check Date:</b>	<b>06/01/2016</b>
	592-291-714.040	BARTLETT	277.20
	101-100-123.000	BOYCE	212.56
	101-215-714.010	CONZELMAN	585.06
	101-171-714.010	COOBATIS	527.30
	101-336-714.020	CULVER	292.57
	592-291-714.040	COURTER	376.61
	101-253-714.010	EDWARDS	585.06
	592-291-714.010	FELLRATH	591.10
	101-305-714.010	GORDON	270.56
	101-265-714.010	HACK	224.66
	101-336-714.020	HALLER	265.27
	101-253-714.010	HAMMYE	326.82
	101-201-714.010	JANKS	552.31
	101-336-714.010	JOWSEY	235.35
	101-336-714.020	KOHL	234.06
	592-291-714.040	KRUEGER	291.12
	101-215-714.010	KUSHNER	473.08
	592-172-714.010	LATAWIEC	235.35
	101-215-714.010	LECLAIR	297.68
	101-371-714.010	LEWIS	509.68
	101-215-714.010	LOZIER	326.82
	592-291-714.040	MELOW	291.12
	101-691-714.010	MITCHELL	353.08
	592-291-714.040	NELSON	207.96
	592-291-714.040	OVERAITTS	277.20
	101-371-714.010	PALMARCHUK	270.56
	101-305-714.010	PAWLOWSKI	235.35
	101-336-714.020	PICKERT	292.57
	101-171-714.010	PRICE	642.60
	101-371-714.010	PUMPHREY	297.68
	101-400-714.010	RADTKE	316.85
	592-291-714.010	SCHOLTEN	252.24
	101-336-714.020	SMITH	292.57
	592-172-714.010	SNELL	235.35
	592-291-714.040	THOMAS	263.40
	101-305-714.010	TIDERINGTON T	661.75
	226-226-714.010	VIGNOE	297.68
	592-172-714.010	VISEL	223.65
	101-171-714.010	WALLACE	362.69
	101-305-714.000	Wanadeo	243.68

**JOHN HANCOCK LIFE INSURANCE CO.**

EMPLOYEE W/H PAYROLL 05/27/2016

**Invoice Amount: \$3,712.10**  
**Check Date: 06/01/2016**

	592-100-231.000	BARTLETT	92.40
	101-100-123.000	BOYCE	70.85
	101-100-231.000	CONZELMAN	195.02
	101-100-231.000	COOBATIS	175.77
	101-100-231.000	CULVER	97.52
	592-100-231.000	COURTER	125.54
	101-100-231.000	EDWARDS	195.02
	592-100-231.000	FELLRATH	197.03
	101-100-231.000	HALLER	88.42
	101-100-231.000	HAMMYE	108.94

## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

101-100-231.000	JANKS	184.10
101-100-231.000	KOHL	78.02
592-100-231.000	KRUEGER	97.04
101-100-231.000	KUSHNER	157.69
101-100-231.000	LEWIS	169.89
101-100-231.000	LOZIER	108.94
592-100-231.000	MELOW	97.04
101-100-231.000	MITCHELL	117.69
592-100-231.000	NELSON	69.32
592-100-231.000	OVERAITIS	92.40
101-100-231.000	PAWLOWSKI	65.24
101-100-231.000	PICKERT	97.52
101-100-231.000	PRICE	214.20
101-100-231.000	RADTKE	105.62
592-100-231.000	SCHOLTEN	84.08
101-100-231.000	SMITH	97.52
592-100-231.000	SNELL	100.00
592-100-231.000	THOMAS	87.80
101-100-231.000	TIDERINGTON T	220.58
101-100-231.000	WALLACE	120.90

**MOTOROLA SOLUTIONS, INC.**

Service Agreement - Dispatch Console - Three Ye

101-325-851.000

Invoice 78334972 4/4/16

**Invoice Amount:****\$11,924.04****Check Date:****06/01/2016**

11,924.04

**NATIONAL VISION ADMINISTRATORS LLC**

Coverage June 2016

**Invoice Amount:****\$1,213.38****Check Date:****06/01/2016**

101-305-714.000	Antal	13.34
101-336-714.000	Atkins	13.34
101-305-714.000	Bartram	9.23
101-325-714.000	Berezak	5.12
101-305-714.000	Brothers	13.34
592-172-716.000	Bruce	9.23
101-336-714.000	Bukis	13.34
101-305-714.000	Cheston	13.34
101-305-714.000	Cloma	13.34
101-325-714.000	Clark	13.34
101-305-714.000	Coffell	13.34
101-336-714.000	Conely	13.34
101-336-714.000	Conroy	13.34
101-215-714.000	Conzelman	13.34
101-171-714.000	Coobatis	9.23
592-172-716.000	Courter	13.34
101-325-714.000	Crowe	9.23
101-336-714.000	Culver	13.34
101-253-714.000	Edwards	13.34
101-325-714.000	Fell	13.34
592-172-716.000	Fellrath	13.34
101-305-714.000	Fetner	13.34
101-305-714.000	Fetter	5.12
101-336-714.000	Fox	13.34
101-305-714.000	Fritz	9.23
101-305-714.000	Gordon	13.34
101-336-714.000	Gross	13.34
101-265-714.000	Haack	9.23
101-336-714.000	Haller	13.34
101-253-714.000	Hammye	13.34
101-336-714.000	Harrell	5.12



## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

101-305-714.000	Haskin	5.12
101-305-714.000	Hayes	9.23
101-305-714.000	Hinkle	5.12
101-305-714.000	Hoffman	13.34
101-325-714.000	Innes	9.23
101-201-714.000	Jank	13.34
101-336-714.000	Jowsey	9.23
101-305-714.000	King	9.23
101-305-714.000	Krebs	13.34
101-305-714.000	Kudra	13.34
101-215-714.000	Kushner	13.34
592-172-716.000	Latawiec	9.23
101-215-714.000	LeClair	5.12
101-371-714.000	Lewis	13.34
101-305-714.000	Linton	13.34
101-215-714.000	Lozier	13.34
101-336-714.000	Mack	9.23
101-336-714.000	Mallari	13.34
101-336-714.000	Mangan	5.12
101-336-714.000	Mann	13.34
101-305-714.000	McParland	9.23
101-691-714.000	Mitchell	5.12
101-371-714.000	Palmarchuk	9.23
101-305-714.000	Pawlowski	5.12
101-336-714.000	Phillips	13.34
101-336-714.000	Pickert	5.12
101-171-714.000	Price	13.34
101-371-714.000	Pumphrey	13.34
101-305-714.000	Ripp	5.12
101-325-714.000	Rodriguez	5.12
265-300-714.000	Rozum	9.23
101-305-714.000	Rupard	5.12
101-305-714.000	Schemanske	5.12
101-305-714.000	Seipenko	13.34
101-336-714.000	Smith	13.34
101-325-714.000	Smith	13.34
101-305-714.000	Smitherman	9.23
592-172-716.000	Snell	9.23
101-336-714.000	Tefend	13.34
101-305-714.000	Tiderington	5.12
101-305-714.000	Tiderington	13.34
101-325-714.000	Turley	9.23
101-336-714.000	Villet	13.34
592-172-716.000	Visel	13.34
101-171-714.000	Wallace	9.23
101-305-714.000	Warring	5.12
592-172-716.000	Anderson C	9.23
101-305-714.000	Anderson E	9.23
592-172-716.000	Anulewicz	9.23
101-290-714.000	Barney	5.12
101-336-714.000	Belsky	9.23
101-305-714.000	Berry C	9.23
101-336-714.000	Eldridge	9.23
592-172-716.000	Fidh	9.23
101-336-714.000	Groth	9.23
101-336-714.000	Haar	13.34
101-336-714.000	Hahn	13.34
592-172-716.000	Hollis	5.12

## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

101-336-714.000	Honke	5.12
101-305-714.000	Jarvis	5.12
101-336-714.000	Jury	13.34
101-336-714.000	King M	9.23
101-371-714.000	Kloc	9.23
101-336-714.000	Knupp	9.23
101-691-714.000	Kozlan	9.23
101-305-714.000	Lego	13.34
101-336-714.000	Maas	5.12
101-290-714.000	Massengill	5.12
101-336-714.000	Maycock	9.23
101-336-714.000	McDurmon	5.12
101-371-714.000	McIlhargey	9.23
101-336-714.000	Miller C	5.12
101-336-714.000	Mothersbaugh	9.23
101-209-714.000	Pyykkonen	5.12
101-336-714.000	Rainey	13.34
101-305-714.000	Rapson	9.23
101-290-714.000	Richardson	9.23
101-325-714.000	Rockwell	9.23
101-336-714.000	Russo	9.23
592-172-716.000	Smith C	5.12
101-305-714.000	Smith R	9.23
101-691-714.000	Smith Timothy C	5.12
101-336-714.000	Valensky	9.23
101-336-714.000	Vanvleck	9.23
101-336-714.000	Warren	9.23
101-336-714.000	Wendel	5.12
101-336-714.000	Westfall	13.34
101-290-714.000	Whitmore	9.23
101-305-714.000	Wilson	9.23
101-305-714.000	Wood	5.12
101-305-714.000	Bonadeo	13.34
101-305-714.000	Lauria	5.12

**NATIONWIDE RET SOL USCM/MIDWEST**

Pay Period End 05/08/2016

**Invoice Amount:****\$12,917.11****Check Date:****06/01/2016**

101-100-239.000	MANN	417.18
101-100-239.000	ANTAL	307.69
101-100-239.000	ATKINS	350.00
592-100-239.000	BARTLETT	40.00
101-100-239.000	BEREZAK	100.00
101-100-239.000	BONADEO	200.00
101-100-239.000	BONO	100.00
101-100-239.000	BROTHERS	275.00
101-100-239.000	BULMER	100.00
101-100-239.000	CHESTON	300.00
101-100-239.000	GIOMA	310.00
101-100-239.000	CLARK	20.00
101-100-239.000	COFFELL	125.00
101-100-239.000	CONROY	10.00
101-100-239.000	COOBATIS	650.00
592-100-239.000	COURTER	150.00
101-100-239.000	CULVER	50.00
101-100-239.000	CURMI, CHARLES	415.64
101-100-239.000	DEVOTO	360.00
101-100-239.000	FELL	200.00
101-100-239.000	FETNER	100.00

## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

101-100-239.000	FOX	100.00
101-100-239.000	FRITZ	200.00
101-100-239.000	GROSS	693.00
101-100-239.000	HAMMYE	782.00
101-100-239.000	HARRELL	200.00
101-100-239.000	HOFFMAN	400.00
101-100-239.000	JANKS	200.00
101-100-239.000	JOWSEY	30.00
101-100-239.000	KREBS	250.00
592-100-239.000	KRUEGER	150.00
101-100-239.000	KUDRA	175.00
592-100-239.000	LATAWIEC	175.00
101-100-239.000	LECLAIR	265.00
101-100-239.000	LEWIS	20.00
101-100-239.000	LINTON	150.00
101-100-239.000	MACK	200.00
101-100-239.000	MALLARI	200.00
101-100-239.000	MANGAN	120.00
592-100-239.000	MELOW	67.00
592-100-239.000	OVERAITIS	50.00
101-100-239.000	PAWLOWSKI	130.00
101-100-239.000	PHILLIPS	35.00
101-100-239.000	PICKERT	100.00
101-100-239.000	PUMPHREY	150.00
101-100-239.000	RANDALL	300.00
101-100-239.000	RIPP	125.00
101-100-239.000	RODRIGUEZ	50.00
101-100-239.000	ROZUM	250.00
101-100-239.000	RUPARD	200.00
101-100-239.000	SEIPENKO	200.00
592-100-239.000	SNELL	100.00
101-100-239.000	TEFEND	150.00
101-100-239.000	TIDERINGTON, S	50.00
101-100-239.000	VILLET	100.00
592-100-239.000	VISEL	100.00
101-100-239.000	WALLACE	500.00
101-100-239.000	TIDERINGTON, T	1,139.00
101-100-239.000	Bartram, Brad	75.00
101-100-239.000	Smitherman, J	75.00
101-100-239.000	Conely	50.00
101-100-239.000	Cebulski	30.60

**PROVANTAGE, LLC**

Data Cartridges Per Quote 6961024

101-201-727.000

HP LTO6 Ultrium RW Cartridge C7976B

**Invoice Amount:****\$426.60****Check Date:****06/01/2016**

426.60

**RUBBER STAMPS UNLIMITED INC**

Desktop Embosser

101-171-727.000

Desk Stop Embosser Plymouth Township

**Invoice Amount:****\$41.50****Check Date:****06/01/2016**

41.50

**A T & T LONG DISTANCE**

April 2016 Cell Phone

101-201-853.000

Cell phone-Info services

**Invoice Amount:****\$103.82****Check Date:****06/01/2016**

7.10

101-209-853.000

Cell phone-Assessing

4.24

101-371-853.000

Cell phone-Building

11.82

101-336-853.000

Cell phone Fire

18.65

101-171-853.000

Cell phone Supervisor

11.05

101-253-853.000

Cell phone-Treasurer

9.43

## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

<i>101-215-853.000</i>	<i>Cell phone-Clerk</i>	<i>5.51</i>
<i>101-400-853.000</i>	<i>Cell phone-Community Development</i>	<i>4.40</i>
<i>101-325-853.000</i>	<i>Cell phone-Dispatch</i>	<i>7.11</i>
<i>101-265-854.000</i>	<i>Cell phone-Township Hall</i>	<i>1.69</i>
<i>101-691-853.000</i>	<i>Cell phone-Park</i>	<i>1.34</i>
<i>226-226-853.000</i>	<i>Cell phone-Solid Waste</i>	<i>0.24</i>
<i>592-172-853.000</i>	<i>Cell phone-DPW</i>	<i>2.34</i>
<i>101-305-853.000</i>	<i>Cell Phone-Police</i>	<i>18.90</i>

**SIGNATURE FORD**

2015 police interceptor with added options

*101-305-978.000**2016 Ford Utility Interceptor***Invoice Amount:****\$27,457.00****Check Date:****06/01/2016***27,457.00***Total Amount to be Disbursed:****\$101,989.56**

## Charter Township of Plymouth AP Invoice Listing - Board Report

**ENDOR INFORMATION****INVOICE INFORMATION**

<b>35TH DISTRICT COURT</b>			<b>Invoice Amount:</b>	<b>\$600.00</b>
POLICE BOND 5/11/16			<b>Check Date:</b>	<b>05/30/2016</b>
	702-100-087.000	5545		300.00
	702-100-087.000	5546		300.00
<b>35TH DISTRICT COURT</b>			<b>Invoice Amount:</b>	<b>\$100.00</b>
POLICE BOND 5/09/16			<b>Check Date:</b>	<b>05/30/2016</b>
	702-100-087.000	5544		100.00
<b>35TH DISTRICT COURT</b>			<b>Invoice Amount:</b>	<b>\$2,250.00</b>
POLICE BOND 5/24/16			<b>Check Date:</b>	<b>05/30/2016</b>
	702-100-087.000	5518		800.00
	702-100-087.000	5519		500.00
	702-100-087.000	5520		300.00
	702-100-087.000	5549		150.00
	702-100-087.000	5550		500.00
<b>35TH DISTRICT COURT</b>			<b>Invoice Amount:</b>	<b>\$600.00</b>
POLICE BOND 5/25/16			<b>Check Date:</b>	<b>05/30/2016</b>
	702-100-087.000	5521		300.00
	702-100-087.000	5522		300.00
<b>35TH DISTRICT COURT</b>			<b>Invoice Amount:</b>	<b>\$450.00</b>
POLICE BOND 5/16/16			<b>Check Date:</b>	<b>05/30/2016</b>
	702-100-087.000	5547		150.00
	702-100-087.000	5548		300.00
<b>35TH DISTRICT COURT</b>			<b>Invoice Amount:</b>	<b>\$1,749.00</b>
POLICE BOND 5/31/16			<b>Check Date:</b>	<b>05/30/2016</b>
	702-100-087.000	5523		299.00
	702-100-087.000	5524		700.00
	702-100-087.000	5525		500.00
	702-100-087.000	6151		250.00
			<b>Total Amount to be Disbursed:</b>	<b>\$5,749.00</b>



**Charter Township of Plymouth  
AP Invoice Listing - Board Report**

**ENDOR INFORMATION**

**INVOICE INFORMATION**

**ACME ENTERPRISES, INC.**

Final payment-Pavilion

246-246-970.150

4 season pavilion

246-246-970.150

credit water faucets sinks and ada cover

**Invoice Amount:**

**\$36,064.77**

**Check Date:**

**05/27/2016**

37,067.88

(1,003.11)

**Total Amount to be Disbursed:**

**\$36,064.77**

## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

VENDOR INFORMATION		INVOICE INFORMATION	
<b>ZAK, JEFF CATERING</b>		<b>Invoice Amount:</b>	<b>\$450.00</b>
caterer		<b>Check Date:</b>	<b>05/25/2016</b>
	101-336-727.000	WWC luncheon meeting 3/17/16	450.00
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$18.00</b>
uniform rep Randall		<b>Check Date:</b>	<b>05/25/2016</b>
	101-336-758.000	Uniform Repair Turnout Velcro-Randall	18.00
<b>BIO-CARE INC</b>		<b>Invoice Amount:</b>	<b>\$975.00</b>
Hazmat-Smith & Villet		<b>Check Date:</b>	<b>05/25/2016</b>
	101-336-835.000	Hazmat Physicals for Smith & Villet	975.00
<b>HORTON PLUMBING</b>		<b>Invoice Amount:</b>	<b>\$105.00</b>
Commercial Labor		<b>Check Date:</b>	<b>05/25/2016</b>
	101-691-931.000	Commercial Labor- Leaking Pipe	105.00
<b>ALLIE BROTHERS UNIFORMS</b>		<b>Invoice Amount:</b>	<b>\$18.00</b>
uniform emblems-Mangan		<b>Check Date:</b>	<b>05/25/2016</b>
	101-336-758.000	remove emblems	6.00
	101-336-758.000	add emblems	12.00
<b>ADP INC</b>		<b>Invoice Amount:</b>	<b>\$3,580.11</b>
Payroll processing 5/5/2016		<b>Check Date:</b>	<b>05/25/2016</b>
	101-290-941.000	Payroll processing 5/5/2016	3,580.11
<b>BLUE CARE NETWORK OF MICHIGAN</b>		<b>Invoice Amount:</b>	<b>\$74,292.70</b>
June 2016 Coverage		<b>Check Date:</b>	<b>05/25/2016</b>
	101-305-714.000	Antal	1,260.36
	101-305-714.000	Bartram	1,167.54
	101-325-714.000	Berezak	488.52
	592-172-716.000	Bruce	1,167.54
	101-305-714.000	Cheston	1,260.36
	101-305-714.000	Cioma	1,260.36
	101-336-714.000	Conely	1,260.36
	101-336-714.000	Conroy	1,260.36
	101-215-714.000	Conzelman	1,260.36
	592-172-716.000	Courter	1,260.36
	101-325-714.000	Crowe	1,167.54
	101-336-714.000	Culver	1,260.36
	101-325-714.000	Fell	1,260.36
	592-172-716.000	Fellrath	1,260.36
	101-305-714.000	Fetner	1,260.36
	101-305-714.000	Fetter	488.52
	101-336-714.000	Fox	1,260.36
	101-305-714.000	Fritz	1,167.54
	101-336-714.000	Haller	1,260.36
	101-336-714.000	Harrell	488.52
	101-305-714.000	Haskin	488.52
	101-305-714.000	Hayes	1,167.54
	101-305-714.000	Hinkle	488.52
	101-325-714.000	Innes	1,167.54
	101-201-714.000	Janks	1,260.36
	101-305-714.000	King	1,260.36
	101-305-714.000	Krebs	1,260.36
	101-371-714.000	Lewis	1,260.36
	101-305-714.000	Linton	1,260.36
	101-336-714.000	Mack	1,167.54

## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

101-336-714.000	Mangan	488.52
101-305-714.000	McParland	1,167.54
101-691-714.000	Mitchell	488.52
101-336-714.000	Phillips	1,260.36
101-336-714.000	Pickert	488.52
101-305-714.000	Ripp	488.52
101-325-714.000	Rodriguez	488.52
265-300-714.000	Rozum	1,167.54
101-305-714.000	Rupard	488.52
101-305-714.000	Schemanske	488.52
101-305-714.000	Selpenko	1,260.36
101-336-714.000	Smith	1,260.36
101-325-714.000	Smith	1,260.36
101-305-714.000	Smitherman	1,167.54
101-336-714.000	Tefend	1,260.36
101-305-714.000	Tiderington	488.52
101-325-714.000	Turley	1,167.54
101-336-714.000	Villet	1,260.36
101-171-714.000	Wallace	1,167.54
101-305-714.000	Warring	488.52
101-305-714.000	Lauria	689.22
101-336-714.000	Eldridge	1,647.22
101-336-714.000	Haar	1,778.17
101-336-714.000	Hahn	689.22
101-336-714.000	Jury	689.22
101-336-714.000	King M	(1,143.00)
101-305-714.000	Lego	1,778.17
101-336-714.000	Maycock	689.22
101-336-714.000	McDurmon	689.22
101-336-714.000	Rainey	1,778.17
101-305-714.000	Rapson	1,647.22
101-336-714.000	Russo	1,647.22
101-336-714.000	Valensky	1,647.22
101-336-714.000	Warren	689.22
101-336-714.000	Wendel	689.22
101-336-714.000	Westfall	1,778.17
101-305-714.000	Wilson	1,647.22
101-305-714.000	Wood	689.22
101-290-714.000	Federal & State taxes & fees	1,725.88
101-336-714.000	Kohl R	488.52
101-305-714.000	Hoffman M	1,260.36

**BLUE CARE NETWORK OF MICHIGAN**

June 2016 Coverage

101-305-714.000	Gordon	1,531.15
101-265-714.000	Haack	1,418.40
101-336-714.000	Jowsey	1,418.40
592-172-716.000	Latawiec	1,418.40
101-215-714.000	LeClair	593.47
101-371-714.000	Palmarchuk	1,418.40
101-305-714.000	Pawlowski	593.47
592-172-716.000	Snell	1,418.40
592-172-716.000	Visel	1,531.15
592-172-716.000	Fidh	837.29
101-209-714.000	Pyykkonen	837.29
101-290-714.000	MI Claim Assessment	274.55

**Invoice Amount:****\$13,290.37****Check Date:****05/25/2016**

## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION****BLUE CARE NETWORK OF MICHIGAN**

June 2016 Coverage

		<b>Invoice Amount:</b>	<b>\$11,304.02</b>
		<b>Check Date:</b>	<b>05/25/2016</b>
592-172-716.000	Anderson C		635.62
592-172-716.000	Anulewicz		635.62
101-305-714.000	Berry C		635.62
101-336-714.000	Groth		1,152.21
101-305-714.000	Jarvis		365.09
101-371-714.000	Kloc		317.81
101-290-714.000	Massengill		317.81
101-336-714.000	Maycock		365.09
101-371-714.000	McIlhargey		635.62
101-336-714.000	Miller C		365.09
101-290-714.000	Richardson		635.62
101-325-714.000	Rockwell		635.62
101-336-714.000	Vanvleck		365.09
101-336-714.000	Warren		317.81
101-290-714.000	Whitmore		635.62
101-290-714.000	Brooks		635.62
101-290-714.000	Hood		317.81
101-290-714.000	Nalepka		635.62
101-290-714.000	Rorabacher		635.62
101-336-714.000	Hahn		365.09
101-336-714.000	Kling S		365.09
101-290-714.000	Federal Insurer Premium		16.02
101-400-714.000	Barney Shirley		317.81

**CONZELMAN, NANCY**

CMMC Certification Reimbursement

		<b>Invoice Amount:</b>	<b>\$140.00</b>
		<b>Check Date:</b>	<b>05/25/2016</b>
101-215-960.000	CMMC Certification Reimbursement		140.00

**CONELY, PATRICK**

Travel reimbursement

		<b>Invoice Amount:</b>	<b>\$14.58</b>
		<b>Check Date:</b>	<b>05/25/2016</b>
101-336-863.000	Gas to HEMS for meeting		14.58

**DELTA DENTAL PLAN OF MI**

June 2016

		<b>Invoice Amount:</b>	<b>\$10,216.36</b>
		<b>Check Date:</b>	<b>05/25/2016</b>
101-305-714.000	Antal		117.82
101-336-714.000	Atkins		117.82
101-305-714.000	Bartram		69.22
101-325-714.000	Berezak		37.41
101-305-714.000	Brothers		117.82
592-172-716.000	Bruce		69.22
101-336-714.000	Bukis		117.82
101-305-714.000	Cheston		117.82
101-100-123.000	Cioma		117.82
101-325-714.000	Clark		117.82
101-305-714.000	Coffell		117.82
101-336-714.000	Conely		117.82
101-336-714.000	Conroy		69.22
101-215-714.000	Conzelman		117.82
101-171-714.000	Coobatts		69.22
592-172-716.000	Courter		117.82
101-325-714.000	Crowe		69.22
101-336-714.000	Culver		117.82
101-253-714.000	Edwards		117.82
101-325-714.000	Fell		117.82
592-172-716.000	Fellrath		117.82
101-305-714.000	Fetner		117.82

## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

101-305-714.000	Fetter	37.41
101-336-714.000	Fox	117.82
101-305-714.000	Fritz	69.22
101-305-714.000	Gordon	117.82
101-336-714.000	Gross	117.82
101-265-714.000	Haack	69.22
101-336-714.000	Haller	117.82
101-253-714.000	Hammye	117.82
101-336-714.000	Harrell	37.41
101-305-714.000	Haskin	37.41
101-305-714.000	Hayes	69.22
101-305-714.000	Hinkle	37.41
101-305-714.000	Hoffman	117.82
101-325-714.000	Innes	69.22
101-201-714.000	Janks	117.82
101-336-714.000	Jowsey	69.22
101-305-714.000	King C	69.22
101-305-714.000	Krebs	117.82
101-305-714.000	Kudra	117.82
101-100-123.000	Kushner	117.82
592-172-716.000	Latawiec	69.22
101-215-714.000	LeClair	37.41
101-371-714.000	Lewis	117.82
101-305-714.000	Linton	117.82
101-215-714.000	Lozler	117.82
101-336-714.000	Mack	69.22
101-336-714.000	Mallari	117.82
101-336-714.000	Mangan	37.41
101-336-714.000	Mann	117.82
101-305-714.000	McParland	69.22
101-691-714.000	Mitchell	37.41
101-371-714.000	Palmarchuk	69.22
101-305-714.000	Pawlowski	37.41
101-336-714.000	Phillips	117.82
101-336-714.000	Pickert	37.41
101-171-714.000	Price	117.82
101-371-714.000	Pumphrey	117.82
101-305-714.000	Rjpp	37.41
101-325-714.000	Rodriguez	37.41
265-300-714.000	Rozum	69.22
101-305-714.000	Rupard	37.41
101-305-714.000	Schemanske	37.41
101-305-714.000	Selpenko	117.82
101-336-714.000	Smith, Chris	117.82
101-325-714.000	Smith, Stephanie	117.82
101-305-714.000	Smitherman	69.22
592-172-716.000	Snell	69.22
101-336-714.000	Tefend	117.82
101-305-714.000	Tiderington, Scott	37.41
101-305-714.000	Tiderington, Tom	117.82
101-325-714.000	Turley	69.22
101-336-714.000	Villet	117.82
592-172-716.000	Visel	117.82
101-171-714.000	Wallace	69.22
101-305-714.000	Warring	37.41
101-305-714.000	Lauria	37.41
592-172-716.000	Anderson C	69.22
101-305-714.000	Anderson E	69.22



## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

592-172-716.000	Anulewicz	69.22
101-290-714.000	Barney	37.41
101-336-714.000	Belsky	69.22
101-305-714.000	Berry C	69.22
101-336-714.000	Eldridge	69.22
592-172-716.000	Fidh	69.22
101-336-714.000	Groth	69.22
101-336-714.000	Haar	117.82
101-336-714.000	Hahn, Donald	69.22
592-172-716.000	Hollis, T	37.41
101-336-714.000	Honke	37.41
101-305-714.000	Jarvis	37.41
101-336-714.000	Jury	117.82
101-336-714.000	King M	69.22
101-371-714.000	Kloc	69.22
101-336-714.000	Knupp	69.22
101-691-714.000	Kozian	69.22
101-305-714.000	Lego	117.82
101-336-714.000	Maas	37.41
101-290-714.000	Massengill	37.41
101-336-714.000	Maycock	69.22
101-336-714.000	McDurmon	37.41
101-371-714.000	McIlhargey	69.22
101-336-714.000	Miller C	37.41
101-336-714.000	Mothersbaugh	69.22
101-209-714.000	Pyykkonen	37.41
101-336-714.000	Rainey	117.82
101-305-714.000	Rapson	69.22
101-290-714.000	Richardson	69.22
101-325-714.000	Rockwell	69.22
101-336-714.000	Russo	69.22
592-172-716.000	Smith Cheryl	37.41
101-305-714.000	Smith Robert	69.22
101-691-714.000	Smith Timothy C	37.41
101-336-714.000	Valensky	69.22
101-336-714.000	Vanvleck	69.22
101-336-714.000	Warren	69.22
101-336-714.000	Wendel	37.41
101-336-714.000	Westfall	117.82
101-290-714.000	Whitmore	69.22
101-305-714.000	Wilson	69.22
101-305-714.000	Wood	37.41
101-336-714.000	Hahn Kyle	37.41
101-336-714.000	Kohl, Robert	37.41
101-336-714.000	Randall Jeffrey	117.82
226-226-714.000	Vignoe, S	117.82
101-305-714.000	Assessment fee-State Claims Tax	61.94
101-305-714.000	Bonadeo, Karen	117.82

**HONKE, ANITA**

Medicare Part B June 2016

101-336-714.000

Medicare Part B June 2016

**Invoice Amount:****\$105.80****Check Date:****05/25/2016**

105.80

**SITEONE LANDSCAPE SUPPLY**

Dura Slope Trench Drain for Retaining Wall at 4 S

246-246-970.150

125' of Trench Drain and Grating

**Invoice Amount:****\$5,135.00****Check Date:****05/25/2016**

5,135.00

## Charter Township of Plymouth AP Invoice Listing - Board Report

**VENDOR INFORMATION****INVOICE INFORMATION**

<b>KNUPP, FRED L.</b> Medicare Part June 2016  101-336-714.000 June 2016	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$104.90</b> <b>05/25/2016</b> 104.90
<b>MAAS, CARLAS</b> Medicare Part B June 2016  101-336-714.000 Medicare Part B June 2016	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$141.40</b> <b>05/25/2016</b> 141.40
<b>MUNICIPAL WEB SERVICES</b> Website Hosting April 2016  101-201-851.000 Website hosting and Maint - April 2016	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$267.50</b> <b>05/25/2016</b> 267.50
<b>PROGRESSIVE PRINTING</b> February 2016 Newsletter  101-955-885.000 February 2016 Newsletter	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$7,200.00</b> <b>05/25/2016</b> 7,200.00
<b>PROGRESSIVE PRINTING</b> April 2016 Newsletter  101-955-885.000 April 2016 Newsletter	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$11,267.25</b> <b>05/25/2016</b> 11,267.25
<b>AIRGAS USA, LLC</b> HAZMAT FEE ONLY FROM INVOICE 9932993711 101-336-836.000 Hazmat fee invoice #9932993711	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$11.00</b> <b>05/25/2016</b> 11.00
<b>SOUTHEAST EQUIPMENT INC</b> Repair SCBA 1, 6, 13, 14  101-336-851.000 Repair SCBA 1, 6, 13 &14	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$245.27</b> <b>05/25/2016</b> 245.27
<b>SPARTAN DISTRIBUTORS</b> Deck Frame and Blade 27" Groundmaster 510-510-737.000 Deck Frame ASM 510-510-737.000 Blade 27" Groundmaster 510-510-737.000 Freight	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$628.15</b> <b>05/25/2016</b> 382.22 178.16 67.77
<b>SPARTAN DISTRIBUTORS</b> Tire/Wheel Turf Saver 510-510-737.000 EZG-28757G03 Tire/ Wheel Turf Saver 510-510-737.000 Freight	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$265.76</b> <b>05/25/2016</b> 219.96 45.80
<b>SPARTAN DISTRIBUTORS</b> Wheel 15 Inch 510-510-737.000 119-0024 Wheel 15 Inch 510-510-737.000 Freight	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$264.70</b> <b>05/25/2016</b> 242.11 22.59
<b>Rubber Stamps Unlimited, Inc.</b> Rubber Stamps 101-215-727.000 Stamp - board mtg. 101-262-727.000 Stamp - QVF	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$43.50</b> <b>05/25/2016</b> 18.75 24.75
<b>Great Lakes Water Authority</b> IWC Charges for April 2016 592-441-743.000 IWC Charges April 2016	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$19,349.00</b> <b>05/25/2016</b> 19,349.00
<b>Map Electric</b> Repairs to DPW lighting, lights at top of water to 592-172-776.000 Inv 1273	<b>Invoice Amount:</b> <b>Check Date:</b>	<b>\$3,465.00</b> <b>05/25/2016</b> 3,465.00

**Charter Township of Plymouth  
AP Invoice Listing - Board Report**

**VENDOR INFORMATION****INVOICE INFORMATION****KROLL CONSTRUCTION**

Cancelled Permits

*101-371-965.000**REFUND PART OF PB-15-1044**101-371-965.000**REFUND OF PB16-0145***Invoice Amount:****\$315.00****Check Date:****05/25/2016***120.00**195.00***Total Amount to be Disbursed:****\$163,213.37**

## Charter Township of Plymouth AP Invoice Listing - Board Report

ENDOR INFORMATION		INVOICE INFORMATION	
<b>CHLORIDE SOLUTIONS LLC</b>		<b>Invoice Amount:</b>	<b>\$2,900.00</b>
Chloride		<b>Check Date:</b>	<b>05/17/2016</b>
	101-446-818.000	25% Mineral Well Brine del & applied	2,900.00
<b>Crane Technologies</b>		<b>Invoice Amount:</b>	<b>\$624.00</b>
Training class		<b>Check Date:</b>	<b>05/17/2016</b>
	592-172-818.000	Crane training class	624.00
<b>Art Van Furniture</b>		<b>Invoice Amount:</b>	<b>\$6,861.99</b>
Rock/Recliners		<b>Check Date:</b>	<b>05/17/2016</b>
	101-336-978.000	710000001 Roc/Recl Astor Fm. \lb 13678	3,864.00
	101-336-978.000	Delivery Charge	50.00
	101-336-978.000	710000001 Astor Rocker w Memory Foam	2,898.00
	101-336-978.000	Delivery Charge Sta #3	49.99
<b>PARAGON LABORATORIES</b>		<b>Invoice Amount:</b>	<b>\$157.50</b>
Water test - Wilcox Rd		<b>Check Date:</b>	<b>05/17/2016</b>
	592-172-818.000	Lab water test	157.50
<b>SPARTAN DISTRIBUTORS</b>		<b>Invoice Amount:</b>	<b>\$121.56</b>
Oil Filter		<b>Check Date:</b>	<b>05/17/2016</b>
	510-510-737.000	EZG-26591G01 Filter Ouil 295/350 CC	105.99
	510-510-737.000	Freight	15.57
<b>SPARTAN DISTRIBUTORS</b>		<b>Invoice Amount:</b>	<b>\$330.60</b>
Oil Filters and Hydraulic Motor Asm		<b>Check Date:</b>	<b>05/17/2016</b>
	510-510-776.000	Filter- Oil	23.94
	510-510-776.000	Hyd Motor ASM	277.72
	510-510-776.000	Filter- Oil	23.94
	510-510-776.000	Freight	5.00
<b>SPARTAN DISTRIBUTORS</b>		<b>Invoice Amount:</b>	<b>\$658.55</b>
Golf Course mower maintenance items		<b>Check Date:</b>	<b>05/17/2016</b>
	510-510-737.000	NGK SPARK PLUG, CHAMPION 3071	30.50
	510-510-737.000	BEDKNIFE Screw	38.40
	510-510-737.000	OIL FILTER PROFORCE	27.92
	510-510-737.000	OIL FILTER, TURF GOLF CARS	17.94
	510-510-737.000	ROLLER ASM W/ BEARING-SPANNER	484.00
	510-510-737.000	CAP SCREW	37.86
	510-510-737.000	FREIGHT	21.93
<b>FACTICAL ENCOUNTERS INC.</b>		<b>Invoice Amount:</b>	<b>\$1,200.00</b>
Basic Firearms Instructor School - McParland, Hin		<b>Check Date:</b>	<b>05/17/2016</b>
	101-305-960.000	Basic Firearms 5 day school 4/4-4/8	1,200.00
<b>OCCUPATIONAL HEALTH CENTERS OF MI</b>		<b>Invoice Amount:</b>	<b>\$101.50</b>
Pre-Employment Physical for Matt Kidd		<b>Check Date:</b>	<b>05/17/2016</b>
	101-691-727.000	Pre-Physical Employment	101.50
<b>DIAMOND PROCLEAN, LLC</b>		<b>Invoice Amount:</b>	<b>\$1,695.00</b>
Spring window cleaning, outside		<b>Check Date:</b>	<b>05/17/2016</b>
	101-265-776.000	INV 6812	1,695.00
<b>PLYMOUTH URGENT CARE</b>		<b>Invoice Amount:</b>	<b>\$280.00</b>
Park Season Employees Pre-Employment Physical		<b>Check Date:</b>	<b>05/17/2016</b>
	101-691-727.000	Joe Dorigo Pre-employment Physical	40.00
	101-691-727.000	Brad Visel Pre-employment Physical	40.00

## Charter Township of Plymouth AP Invoice Listing - Board Report

ENDOR INFORMATION			INVOICE INFORMATION
	101-691-727.000	Meg Herriman Pre-employment Physical	40.00
	101-691-727.000	Kristyn Pedlow Pre-employment Physical	40.00
	101-691-727.000	Janet Fox Pre-employment Physical	40.00
	101-691-727.000	Camryn Furgason Pre-employment Physical	40.00
	101-691-727.000	Matt Molchan Pre-employment Physical	40.00
<b>PLYMOUTH URGENT CARE</b>			<b>Invoice Amount: \$40.00</b>
Pre-Employment Physical			<b>Check Date: 05/17/2016</b>
	101-691-727.000	Pre-Employment Physical	40.00
<b>PLYMOUTH URGENT CARE</b>			<b>Invoice Amount: \$40.00</b>
Pre-Employment Physical (Connor Cole)			<b>Check Date: 05/17/2016</b>
	101-691-727.000	Pre-Employment Physical	40.00
<b>PLYMOUTH URGENT CARE</b>			<b>Invoice Amount: \$40.00</b>
Pre-employment Physical			<b>Check Date: 05/17/2016</b>
	592-172-727.000	Garrett Wojcik	40.00
<b>SPENCER OIL COMPANY</b>			<b>Invoice Amount: \$545.12</b>
Diesel Fuel			<b>Check Date: 05/17/2016</b>
	510-510-737.000	Dyed Diesel Fuel	541.39
	510-510-737.000	Fed Oil Tax	0.61
	510-510-737.000	Federal Lust Tax	0.32
	510-510-737.000	MI Environmental Fee	2.80
<b>ASSOCIATED NEWSPAPERS OF MICHIGAN</b>			<b>Invoice Amount: \$47.83</b>
BOT/ZBA Notices			<b>Check Date: 05/17/2016</b>
	101-215-813.000	BOT Meeting Notice May 17, 2016	21.59
	101-215-813.000	ZBA Notice	26.24
<b>ASSOCIATED NEWSPAPERS OF MICHIGAN</b>			<b>Invoice Amount: \$238.64</b>
Ordinance 99.023 Legal Notice			<b>Check Date: 05/17/2016</b>
	101-215-813.000	Legal Notice Ordinance 99.023 - 5-5-16	238.64
<b>ASSOCIATED NEWSPAPERS OF MICHIGAN</b>			<b>Invoice Amount: \$73.79</b>
Ordinance 99.022 Notice			<b>Check Date: 05/17/2016</b>
	101-215-813.000	Ordinance 99.022 Notice	73.79
<b>UPS</b>			<b>Invoice Amount: \$15.26</b>
Supervisor/DPS Mailings			<b>Check Date: 05/17/2016</b>
	101-171-727.000	Supervisor Mailing	5.70
	226-226-810.000	DPS Mailing	9.56
<b>SPENCER OIL COMPANY</b>			<b>Invoice Amount: \$280.81</b>
253.8 Gallons of Gasoline			<b>Check Date: 05/17/2016</b>
	510-510-737.000	87 Octane Unl w/10% ethanol	277.91
	510-510-737.000	Federal Lust Tax	0.25
	510-510-737.000	Federal Oil Spill Ethanol	0.43
	510-510-737.000	MI Environmental Fee	2.22
<b>SPENCER OIL COMPANY</b>			<b>Invoice Amount: \$17.98</b>
CIM-TEK			<b>Check Date: 05/17/2016</b>
	510-510-737.000	CIM-TEK	17.98
<b>ADVANCED DISPOSAL</b>			<b>Invoice Amount: \$56.42</b>
DPW RESIDENTIAL COMPOST			<b>Check Date: 05/17/2016</b>
	226-226-810.000	5 YARDS AT \$10.50/YD	52.50
	226-226-810.000	FUEL SURCHARGE	3.92



## Charter Township of Plymouth AP Invoice Listing - Board Report

**ENDOR INFORMATION****INVOICE INFORMATION****ADVANCED DISPOSAL**

DPW RESI COMPOST 041516

226-226-810.000

10 YDS AT \$10.50/YARD

226-226-810.000

FUEL SURCHARGE

**Invoice Amount:****\$112.84****Check Date:****05/17/2016**

105.00

7.84

**ALLIED SUBSTANCE ABUSE PROFESSIONAL**

Pre Emp

592-172-727.000

S Melow-Pre Emp

592-172-727.000

D Nelson-Pre Emp

**Invoice Amount:****\$76.00****Check Date:****05/17/2016**

38.00

38.00

**A T & T**

Video Arraignment April 2016-Per old contract-adj

101-325-853.000

Video Arrignment April 2016

**Invoice Amount:****\$348.50****Check Date:****05/17/2016**

348.50

**A T & T**

ATT Bill-April 2016-Per old contract-to be adjuste

101-201-853.000

Information Services

101-209-853.000

Assessing

101-371-853.000

Building

101-336-853.000

Fire

101-305-853.000

Police

101-171-853.000

Supervisor

101-253-853.000

Treasurer

101-215-853.000

Clerk

101-400-853.000

Community Development

101-325-853.000

Dispatch

226-226-853.000

Solid Waste

592-172-853.000

Water/Sewer

592-291-805.000

Water/Sewer

101-265-854.000

Twp Hall

101-691-853.000

Park

**Invoice Amount:****\$1,883.08****Check Date:****05/17/2016**

101.91

63.52

112.98

382.81

299.64

136.00

88.17

136.47

164.13

145.15

14.41

129.68

48.03

17.23

42.95

**BLUE CROSS/BLUE SHIELD OF MICHIGAN**

Retiree Health June 2016

101-336-714.000

Belsky

101-336-714.000

Honke

101-336-714.000

Knupp

101-336-714.000

Maas

101-336-714.000

Mothersbaugh

101-336-714.000

MothersbaughS

101-336-714.000

Belsky B

101-336-714.000

Hagopian G

101-336-714.000

Knupp :

**Invoice Amount:****\$4,509.63****Check Date:****05/17/2016**

501.07

501.07

501.07

501.07

501.07

501.07

501.07

501.07

501.07

**C.O.A.M. - PLYMOUTH TOWNSHIP**

COAM Union Deductions - May 2016

101-100-232.050

Fetner, William J.

101-100-232.050

Krebs, Ryan

101-100-232.050

Kudra, Daniel J.

101-100-232.050

Seipenko, Todd A.

101-100-232.050

Hoffman

**Invoice Amount:****\$336.55****Check Date:****05/17/2016**

67.31

67.31

67.31

67.31

67.31

**COMCAST**

High Speed Internet 05/09/2016-6/08/2016

101-290-941.000

Internet 05/09/2016-06/08/2016

**Invoice Amount:****\$248.80****Check Date:****05/17/2016**

248.80

## Charter Township of Plymouth AP Invoice Listing - Board Report

**ENDOR INFORMATION****INVOICE INFORMATION****CONSUMERS ENERGY**

Consumer monthly-April 2016

			<b>Invoice Amount:</b>	<b>\$3,990.31</b>
			<b>Check Date:</b>	<b>05/17/2016</b>
	101-171-921.000	Supervisor		214.56
	101-201-921.000	Info Services		114.81
	101-209-921.000	Assessing		61.42
	101-215-921.000	Clerk		186.46
	101-253-921.000	Treasurer		77.88
	101-265-854.000	Twp. Hall		145.04
	101-305-921.000	Police		616.18
	101-325-921.000	Dispatch		256.51
	101-336-921.000	Fire		767.71
	101-371-921.000	Building		135.08
	101-400-921.000	Community Development		75.67
	101-691-921.000	Park		273.83
	226-226-921.000	Solid Waste		17.78
	592-172-921.000	DPW		801.54
	510-510-737.000	Golf Course		169.55
	592-444-745.000	DPW		76.29

**CORPORATE CLEANING GROUP INC**

Monthly Janitorial DPW May 2016

			<b>Invoice Amount:</b>	<b>\$405.00</b>
			<b>Check Date:</b>	<b>05/17/2016</b>
	592-172-776.000	DPW May 2016		345.00
	101-265-858.000	Senior Center May 2016		60.00

**CORPORATE CLEANING GROUP INC**

May 2016 Service

			<b>Invoice Amount:</b>	<b>\$2,917.82</b>
			<b>Check Date:</b>	<b>05/17/2016</b>
	101-305-776.000	Janitorial Service May 2016		904.37
	101-265-776.000	Janitorial Service May 2016		893.97
	592-172-776.000	Janitorial Service May 2016		187.11
	101-336-776.000	Janitorial Service May 2016		93.55
	101-325-818.000	Janitorial Service-Haz Mat Cleans		262.50
	101-265-776.000	Fitness room floor refinish		500.00
	101-265-776.000	Hazmat Supplies-Coveralls		42.77
	101-265-776.000	Hazmat Supplies-Shoe Covers		33.55

**INFINITELY GREEN LANDSCAPING**

Fertilization per attached contract-Ply Pointe Park

			<b>Invoice Amount:</b>	<b>\$175.00</b>
			<b>Check Date:</b>	<b>05/17/2016</b>
	101-265-776.000	Inv #11483 Round 2 of 4		175.00

**INFINITELY GREEN LANDSCAPING**

Fertilization per attached contract-Brentwood Par

			<b>Invoice Amount:</b>	<b>\$70.00</b>
			<b>Check Date:</b>	<b>05/17/2016</b>
	101-691-931.000	Inv # 11476 2 of 3		70.00

**INFINITELY GREEN LANDSCAPING**

Fertilization per attached contract-Fire St #3

			<b>Invoice Amount:</b>	<b>\$95.00</b>
			<b>Check Date:</b>	<b>05/17/2016</b>
	101-336-776.000	Inve # 11482 2 of 5		95.00

**INFINITELY GREEN LANDSCAPING**

Fertilization per attached contract-Lake Pointe Soc

			<b>Invoice Amount:</b>	<b>\$795.00</b>
			<b>Check Date:</b>	<b>05/17/2016</b>
	101-691-931.000	Inv # 11480 2 of 5		795.00

**INFINITELY GREEN LANDSCAPING**

Fertilization per attached contract-Ply Twp Park

			<b>Invoice Amount:</b>	<b>\$1,125.00</b>
			<b>Check Date:</b>	<b>05/17/2016</b>
	101-691-931.000	Inv # 11485 - Round 2 of 3		1,125.00

**INFINITELY GREEN LANDSCAPING**

Fertilization per attached contract-Miller Family Pa

			<b>Invoice Amount:</b>	<b>\$315.00</b>
			<b>Check Date:</b>	<b>05/17/2016</b>

## Charter Township of Plymouth AP Invoice Listing - Board Report

**ENDOR INFORMATION****INVOICE INFORMATION**

ENDOR INFORMATION	INVOICE INFORMATION	Invoice Amount:	Check Date:
	101-691-931.000    Inv # 11481 2 of 4	315.00	
<b>INFINITELY GREEN LANDSCAPING</b>		<b>\$170.00</b>	
Fertilization per attached contract-Friendship Stati			<b>05/17/2016</b>
101-265-858.000	Inv # 11479- Round 2 of 5	50.00	
101-265-858.000	Inv # 11479, Weed control	120.00	
<b>INFINITELY GREEN LANDSCAPING</b>		<b>\$680.00</b>	
Fertilization per attached contract-Ply Twp Hall			<b>05/17/2016</b>
101-265-776.000	Inv # 11484- Round 1 of 5	295.00	
101-265-776.000	Work order 9549, relplace Boxwoods	385.00	
<b>INFINITELY GREEN LANDSCAPING</b>		<b>\$65.00</b>	
Fertilization per attached contract-DPW Building			<b>05/17/2016</b>
592-172-776.000	Inv # 11477 -2 of 5	65.00	
<b>M.C. Smith Associates &amp; Architect</b>		<b>\$2,242.00</b>	
Community Park, Recreation, Open Spaces Plan			<b>05/17/2016</b>
101-691-801.000	Community Park, Recreation, Open Spaces	2,242.00	
<b>JOHN HANCOCK LIFE INSURANCE CO.</b>		<b>\$14,045.18</b>	
EMPLOYER MATCH PAYROLL 5/13/2016			<b>05/17/2016</b>
592-291-714.040	BARTLETT	277.20	
101-100-123.000	BOYCE	190.70	
592-291-714.010	BRUCE	360.10	
101-215-714.010	CONZELMAN	585.06	
101-171-714.010	COOBATIS	527.30	
101-336-714.020	CULVER	292.57	
592-291-714.040	COURTER	376.61	
101-253-714.010	EDWARDS	585.06	
592-291-714.010	FELLRATH	591.10	
101-305-714.010	GORDON	270.56	
101-265-714.010	HACK	224.66	
101-336-714.020	HALLER	265.27	
101-253-714.010	HAMMYE	326.82	
101-201-714.010	JANKS	552.31	
101-336-714.010	JOWSEY	235.35	
101-336-714.020	KOHL	234.06	
592-291-714.040	KRUEGER	291.12	
101-215-714.010	KUSHNER	473.08	
592-172-714.010	LATAWIEC	235.35	
101-215-714.010	LECLAIR	297.68	
101-371-714.010	LEWIS	509.68	
101-215-714.010	LOZIER	326.82	
592-291-714.040	MELOW	291.12	
101-691-714.010	MITCHELL	353.08	
592-291-714.040	NELSON	207.96	
592-291-714.040	OVERAITTS	277.20	
101-371-714.010	PALMARCHUK	270.56	
101-305-714.010	PAWLOWSKI	235.35	
101-336-714.020	PICKERT	292.57	
101-171-714.010	PRICE	642.60	
101-371-714.010	PUMPHREY	297.68	
101-400-714.010	RADTKE	316.85	
592-291-714.010	SCHOLTEN	250.98	
101-336-714.020	SMITH	292.57	
592-172-714.010	SNELL	235.35	
592-291-714.040	THOMAS	263.40	

## Charter Township of Plymouth AP Invoice Listing - Board Report

**ENDOR INFORMATION****INVOICE INFORMATION**

<i>101-305-714.010</i>	<i>TIDERINGTON T</i>	<i>661.75</i>
<i>226-226-714.010</i>	<i>VIGNOE</i>	<i>297.68</i>
<i>592-172-714.010</i>	<i>VISEL</i>	<i>223.65</i>
<i>101-171-714.010</i>	<i>WALLACE</i>	<i>362.69</i>
<i>101-305-714.000</i>	<i>Bonadeo</i>	<i>243.68</i>

**JOHN HANCOCK LIFE INSURANCE CO.**

EMPLOYEE W/H PAYROLL 05/13/2016

**Invoice Amount:****\$3,824.43****Check Date:****05/17/2016**

<i>592-100-231.000</i>	<i>BARTLETT</i>	<i>92.40</i>
<i>101-100-123.000</i>	<i>BOYCE</i>	<i>63.57</i>
<i>592-100-231.000</i>	<i>BRUCE</i>	<i>120.03</i>
<i>101-100-231.000</i>	<i>CONZELMAN</i>	<i>195.02</i>
<i>101-100-231.000</i>	<i>COOBATIS</i>	<i>175.77</i>
<i>101-100-231.000</i>	<i>CULVER</i>	<i>97.52</i>
<i>592-100-231.000</i>	<i>COURTER</i>	<i>125.54</i>
<i>101-100-231.000</i>	<i>EDWARDS</i>	<i>195.02</i>
<i>592-100-231.000</i>	<i>FELLRATH</i>	<i>197.03</i>
<i>101-100-231.000</i>	<i>HALLER</i>	<i>88.42</i>
<i>101-100-231.000</i>	<i>HAMMYE</i>	<i>108.94</i>
<i>101-100-231.000</i>	<i>JANKS</i>	<i>184.10</i>
<i>101-100-231.000</i>	<i>KOHL</i>	<i>78.02</i>
<i>592-100-231.000</i>	<i>KRUEGER</i>	<i>97.04</i>
<i>101-100-231.000</i>	<i>KUSHNER</i>	<i>157.69</i>
<i>101-100-231.000</i>	<i>LEWIS</i>	<i>169.89</i>
<i>101-100-231.000</i>	<i>LOZIER</i>	<i>108.94</i>
<i>592-100-231.000</i>	<i>MELOW</i>	<i>97.04</i>
<i>101-100-231.000</i>	<i>MITCHELL</i>	<i>117.69</i>
<i>592-100-231.000</i>	<i>NELSON</i>	<i>69.32</i>
<i>592-100-231.000</i>	<i>OVERAITIS</i>	<i>92.40</i>
<i>101-100-231.000</i>	<i>PAWLOWSKI</i>	<i>65.24</i>
<i>101-100-231.000</i>	<i>PICKERT</i>	<i>97.52</i>
<i>101-100-231.000</i>	<i>PRICE</i>	<i>214.20</i>
<i>101-100-231.000</i>	<i>RADTKE</i>	<i>105.62</i>
<i>592-100-231.000</i>	<i>SCHOLTEN</i>	<i>83.66</i>
<i>101-100-231.000</i>	<i>SMITH</i>	<i>97.52</i>
<i>592-100-231.000</i>	<i>SNELL</i>	<i>100.00</i>
<i>592-100-231.000</i>	<i>THOMAS</i>	<i>87.80</i>
<i>101-100-231.000</i>	<i>TIDERINGTON T</i>	<i>220.58</i>
<i>101-100-231.000</i>	<i>WALLACE</i>	<i>120.90</i>

**NATIONWIDE RET SOL USCM/MIDWEST**

Pay Period End 05/08/2016

**Invoice Amount:****\$23,886.52****Check Date:****05/17/2016**

<i>101-100-239.000</i>	<i>MANN</i>	<i>417.18</i>
<i>101-100-239.000</i>	<i>ANTAL</i>	<i>307.69</i>
<i>101-100-239.000</i>	<i>ATKINS</i>	<i>350.00</i>
<i>592-100-239.000</i>	<i>BARTLETT</i>	<i>40.00</i>
<i>101-100-239.000</i>	<i>BEREZAK</i>	<i>100.00</i>
<i>101-100-239.000</i>	<i>BONADEO</i>	<i>200.00</i>
<i>101-100-239.000</i>	<i>BONO</i>	<i>100.00</i>
<i>101-100-239.000</i>	<i>BROTHERS</i>	<i>275.00</i>
<i>592-100-239.000</i>	<i>BRUCE</i>	<i>11,000.00</i>
<i>101-100-239.000</i>	<i>BULMER</i>	<i>100.00</i>
<i>101-100-239.000</i>	<i>CHESTON</i>	<i>300.00</i>
<i>101-100-239.000</i>	<i>CIOMA</i>	<i>310.00</i>
<i>101-100-239.000</i>	<i>CLARK</i>	<i>20.00</i>
<i>101-100-239.000</i>	<i>COFFELL</i>	<i>125.00</i>
<i>101-100-239.000</i>	<i>CONROY</i>	<i>10.00</i>
<i>101-100-239.000</i>	<i>COOBATIS</i>	<i>650.00</i>

## Charter Township of Plymouth AP Invoice Listing - Board Report

**ENDOR INFORMATION****INVOICE INFORMATION**

592-100-239.000	COURTER	150.00
101-100-239.000	CULVER	50.00
101-100-239.000	CURMI, CHARLES	415.65
101-100-239.000	DEVOTO	360.00
101-100-239.000	FELL	200.00
101-100-239.000	FETNER	100.00
101-100-239.000	FOX	100.00
101-100-239.000	FRITZ	200.00
101-100-239.000	GROSS	693.00
101-100-239.000	HAMMYE	782.00
101-100-239.000	HARRELL	200.00
101-100-239.000	HOFFMAN	400.00
101-100-239.000	JANKS	200.00
101-100-239.000	JOWSEY	30.00
101-100-239.000	KREBS	250.00
592-100-239.000	KRUEGER	150.00
101-100-239.000	KUDRA	175.00
592-100-239.000	LATAWIEC	175.00
101-100-239.000	LECLAIR	265.00
101-100-239.000	LEWIS	20.00
101-100-239.000	LINTON	150.00
101-100-239.000	MACK	200.00
101-100-239.000	MALLARI	200.00
101-100-239.000	MANGAN	120.00
592-100-239.000	MELOW	67.00
592-100-239.000	OVERAITTS	50.00
101-100-239.000	PAWLOWSKI	130.00
101-100-239.000	PHILLIPS	35.00
101-100-239.000	PICKERT	100.00
101-100-239.000	PUMPHREY	150.00
101-100-239.000	RANDALL	300.00
101-100-239.000	RIPP	125.00
101-100-239.000	RODRIGUEZ	50.00
101-100-239.000	ROZUM	250.00
101-100-239.000	RUPARD	200.00
101-100-239.000	SEIPENKO	200.00
592-100-239.000	SNELL	100.00
101-100-239.000	TEFEND	150.00
101-100-239.000	TIDERINGTON, S	50.00
101-100-239.000	VILLET	100.00
592-100-239.000	VISEL	100.00
101-100-239.000	WALLACE	500.00
101-100-239.000	TIDERINGTON, T	1,139.00
101-100-239.000	Bartram, Brad	75.00
101-100-239.000	Smitherman, J	75.00
101-100-239.000	Conely	50.00

**OFFICE DEPOT**

Office Supplies

101-691-727.000	Stacking Desk Tray	9.62
101-171-727.000	Bottled water	12.52
101-691-727.000	Copy paper	28.99
101-171-727.000	Camera Batteries	21.59
101-171-727.000	Writing Pads	20.97

**Invoice Amount:****\$93.69****Check Date:****05/17/2016****OFFICE DEPOT**

Office Supplies

101-171-727.000	Certificate Covers	134.90
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**Invoice Amount:****\$134.90****Check Date:****05/17/2016**



## Charter Township of Plymouth AP Invoice Listing - Board Report

**ENDOR INFORMATION****INVOICE INFORMATION****P.O.A.M. - PLYMOUTH TOWNSHIP**

POAM Union Deductions - May 2016

		<b>Invoice Amount:</b>	<b>\$1,691.14</b>
		<b>Check Date:</b>	<b>05/17/2016</b>
101-100-232.010	Bartram, Brad		62.31
101-100-232.040	Berezak, Jennifer		44.75
101-100-232.040	Bulmer, Cassandra M.		49.75
101-100-232.010	Cheston, Steven		62.31
101-100-232.010	Cioma, Bradley A.		62.31
101-100-232.040	Clark, Kristina R.		49.75
101-100-232.010	Coffell, Steven John		62.31
101-100-232.040	Crowe, Ronald E.		44.75
101-100-232.040	Fell, Cynthia		44.75
101-100-232.010	Fetter, Jeffery D.		62.31
101-100-232.010	Fritz, Michael		62.31
101-100-232.010	Haskin, Dane		62.31
101-100-232.010	Hayes, Jason		57.31
101-100-232.010	Hinkle, Michael T.		62.31
101-100-232.040	Innes, Donna M.		49.75
101-100-232.010	King, Caitlin E.		62.31
101-100-232.010	Linton, Marcy Kay		62.31
101-100-232.010	McParland, Jeffrey K.		62.31
101-100-232.010	Ripp, Jason R.		62.31
101-100-232.040	Rodriguez, Tracy		44.75
101-100-232.010	Rozum, Charles J.		62.31
101-100-232.010	Rupard, Bryan J.		62.31
101-100-232.010	Schemanske, Jeremy		62.31
101-100-232.040	Smith, Stephanie		44.75
101-100-232.010	Smitherman, Joseph A.		62.31
101-100-232.010	Tiderington, Scott R.		62.31
101-100-232.040	Turley, Melanie A.		44.75
101-100-232.010	Warring, Aaron Thomas		62.31
101-100-232.040	Yudt, Raymond		44.75
101-100-232.040	Fitzgerald, James		49.75

**RAYHAVEN GROUP, INC.**

Clubhouse Partitions

		<b>Invoice Amount:</b>	<b>\$4,035.00</b>
		<b>Check Date:</b>	<b>05/17/2016</b>
510-100-180.000	Bobrick Phenolic Partitions		3,026.25
510-100-180.000	Bobrick Phenolic Urinal Screen		1,008.75

**RAYHAVEN GROUP, INC.**

Pavilion Bathroom partitions

		<b>Invoice Amount:</b>	<b>\$2,644.00</b>
		<b>Check Date:</b>	<b>05/17/2016</b>
101-691-931.000	Bobrick Phenolic Partitions		2,644.00

**RIZZO ENVIRONMENTAL SERVICES**

DPW Street Sweeping 04/21/16

		<b>Invoice Amount:</b>	<b>\$370.50</b>
		<b>Check Date:</b>	<b>05/17/2016</b>
592-172-776.000	PICKUP/RETURN DPW STREET SWEEPING		175.00
592-172-776.000	DISPOSAL 7.82 TONS		195.50

**RIZZO ENVIRONMENTAL SERVICES**

DPW RESI RECYCLE - PAPER ONLY 4/19/16

		<b>Invoice Amount:</b>	<b>\$195.00</b>
		<b>Check Date:</b>	<b>05/17/2016</b>
226-226-810.000	DPW RESI RECYCLE PAPER 4/19/16		195.00

**RIZZO ENVIRONMENTAL SERVICES**

DPW STREET SWEEPING DEBRIS

		<b>Invoice Amount:</b>	<b>\$703.50</b>
		<b>Check Date:</b>	<b>05/17/2016</b>
592-172-776.000	PICKUP/RETURN		350.00
592-172-776.000	7 TONS		175.00
592-172-776.000	7.14 TONS		178.50

## Charter Township of Plymouth AP Invoice Listing - Board Report

**ENDOR INFORMATION****INVOICE INFORMATION****XTREME SHREDS**

APRIL 2016 PAPER SHREDDING

226-226-810.000 5.5 HOURS AT \$185/HR

**Invoice Amount: \$1,017.50**  
**Check Date: 05/17/2016**  
 1,017.50

**TEAMSTER LOCAL # 214**

Teamster Local #214 - May 2016

101-100-232.030	Bartlett, James	53.00
101-100-232.030	Krueger, Randy	56.00
101-100-232.030	Melow, Steven	56.00
101-100-232.030	Overaitis, Joseph	53.00
101-100-232.030	Scholten, James	48.00
101-100-232.030	Thomas, James	50.00
101-100-232.030	Nelson, David	65.00

**Invoice Amount: \$381.00**  
**Check Date: 05/17/2016**

**TECHNICAL, PROFESSIONAL AND OFFICE-**

IPOAM Union Deductions - May 2016

101-100-232.060	Bonadeo, Karen E.	31.00
101-100-232.060	Bono, Jennifer A.	15.50
101-100-232.060	De Biasi, Lia M.	15.50
101-100-232.060	Devoto, Claudia P.	15.50
101-100-232.060	Glennie, Gail A.	15.50
101-100-232.060	Gordon, Cheryl	31.00
101-100-232.060	Haack, David	31.00
101-100-232.060	Jowsey, Nancy	31.00
101-100-232.060	Kline, Anne E.	15.50
101-100-232.060	Latawiec, Kelly	31.00
101-100-232.060	Leclair, Diane L.	31.00
101-100-232.060	MacDonald, Kenneth E.	15.50
101-100-232.060	MacDonell, Carol A.	15.50
101-100-232.060	Martin, Carol R.	15.50
101-100-232.060	Palmarchuk, Cheri	31.00
101-100-232.060	Pawlowski, Donna E.	31.00
101-100-232.060	Pumphrey, Kathryn	31.00
101-100-232.060	Snell, Donna Sue	31.00
101-100-232.060	Truesdell, Mary Ann	15.50
101-100-232.060	Vignoe, Susan	31.00
101-100-232.060	Visel, Sarah J.	31.00
101-100-232.060	Geletzke, Alice	15.50
101-100-232.060	Richardson, Michael	15.50
101-100-232.060	Ludke, Mchelle	15.50

**Invoice Amount: \$558.00**  
**Check Date: 05/17/2016**

**VERIZON WIRELESS**

April 2016 wireless bills

592-172-853.000	DPW wireless devices	302.95
101-201-853.000	Info services wireless devices	0.27
101-325-853.000	PD dispatch wireless devices	52.61
101-336-853.000	Fire wireless devices	80.08
101-691-853.000	Park foreman wireless device	40.01
805-805-970.005	Sidewalk Inspector wireless device	29.65
226-226-853.000	Solid waste wireless device	52.11
588-588-853.000	Senior Transportation wireless device	127.51

**Invoice Amount: \$685.19**  
**Check Date: 05/17/2016**

**WAYNE COUNTY**

4/16 Traffic Signal Energy

101-446-920.000 4/16 Traf Sig Energy

**Invoice Amount: \$122.20**  
**Check Date: 05/17/2016**  
 122.20

## Charter Township of Plymouth AP Invoice Listing - Board Report

**ENDOR INFORMATION****INVOICE INFORMATION****WCA ASSESSING**

Legal Services April 2016

101-209-826.000 Paralegal  
101-209-727.000 Postage

**Invoice Amount: \$1,700.57**  
**Check Date: 05/17/2016**  
1,192.64  
507.93

**WESTERN TWNSPS UTILITIES AUTHORITY**

WTUA April 2016

592-441-742.000 April 2016 Charges  
592-441-743.000 April 2016 IPP-IWC  
592-443-937.000 Country Club Pump Station

**Invoice Amount: \$279,227.31**  
**Check Date: 05/17/2016**  
273,923.76  
4,697.42  
606.13

**WOW! BUSINESS**

Internet Friendship Station 5/2/216-6/1/2016

101-265-854.000 Internet Friendship St 5/1/2016-6/2/2016

**Invoice Amount: \$118.29**  
**Check Date: 05/17/2016**  
118.29

**SRRAB Inc.**

Golf Course Bathroom Renovation (Plumbing Labo

510-100-180.000 Install New Toilets  
510-100-180.000 new Sinks and Faucets  
510-100-180.000 Repair broken water line in wall

**Invoice Amount: \$595.00**  
**Check Date: 05/17/2016**  
255.00  
255.00  
85.00

**SRRAB Inc.**

Park Train Station Renovation Mens &amp; Womens B

101-851-971.000 Remove False Walls and clean up  
101-851-971.000 Install new walls and panels  
101-851-971.000 Patch and paint walls  
101-851-971.000 Install new counter tops  
101-851-971.000 Repair water damaged drywall ceiling  
101-851-971.000 Remove Replace hand dryers  
101-851-971.000 Install Toilet Accessories & ADA Hardwar

**Invoice Amount: \$4,335.00**  
**Check Date: 05/17/2016**  
510.00  
680.00  
850.00  
935.00  
510.00  
340.00  
510.00

**SRRAB Inc.**

Train Station Mens &amp; Womens Bathroom Renovati

101-851-971.000 Replace all water valves  
101-851-971.000 Replace damaged floor flanges  
101-851-971.000 Install 5 Toilets  
101-851-971.000 Install 2 counter tops and 4 sinks

**Invoice Amount: \$1,360.00**  
**Check Date: 05/17/2016**  
340.00  
255.00  
425.00  
340.00

**SRRAB Inc.**

-hilltop Mens and Womens course Bathroom Renov

510-100-180.000 Hours to Remove debris from walls  
510-100-180.000 Install new cement board on walls  
510-100-180.000 Install new Marlyte FRP  
510-100-180.000 Install new ceramic tile flooring  
510-100-180.000 Caulk and seal vanity and toilet fixture  
510-100-180.000 Remove and install 2 new doors

**Invoice Amount: \$4,462.50**  
**Check Date: 05/17/2016**  
425.00  
765.00  
1,275.00  
935.00  
425.00  
637.50

**SRRAB Inc.**

-hilltop Clubhouse Mens &amp; Womens Bathroom Ren

510-100-180.000 Remove all Toilets and Urinals  
510-100-180.000 Snake all lines  
510-100-180.000 Install New Toilets and Urinals  
510-100-180.000 Install New Sinks and Faucets

**Invoice Amount: \$1,530.00**  
**Check Date: 05/17/2016**  
340.00  
170.00  
680.00  
340.00

**RIZZO ENVIRONMENTAL SERVICES**

APRIL 2016 RESIDENTIAL YDWST DISPOSAL

226-226-810.000 422.93 TONS AT 24\$/TON

**Invoice Amount: \$10,150.32**  
**Check Date: 05/17/2016**  
10,150.32

## Charter Township of Plymouth AP Invoice Listing - Board Report

**ENDOR INFORMATION****INVOICE INFORMATION**

<b>RIZZO ENVIRONMENTAL SERVICES</b>			<b>Invoice Amount:</b>	<b>\$100,971.36</b>
APRIL 2016 RESIDENTIAL			<b>Check Date:</b>	<b>05/17/2016</b>
	226-226-810.000	APRIL 2016 RESI TRASH		65,253.60
	226-226-810.000	APRIL 2016 RESI RECYCLE		18,202.32
	226-226-810.000	APRIL 2016 RESI YDWST COLLECTION		17,515.44
<b>MICHIGAN CAT</b>			<b>Invoice Amount:</b>	<b>\$29.50</b>
Parts-backhoe			<b>Check Date:</b>	<b>05/17/2016</b>
	592-291-851.000	Cap-fuel		29.50
<b>B &amp; F AUTO SUPPLY INC</b>			<b>Invoice Amount:</b>	<b>\$27.49</b>
Vehicle part			<b>Check Date:</b>	<b>05/17/2016</b>
	592-291-863.000	Blower Motor resistor - 09 Ford Escape		27.49
<b>B &amp; F AUTO SUPPLY INC</b>			<b>Invoice Amount:</b>	<b>\$129.59</b>
Vehicle			<b>Check Date:</b>	<b>05/17/2016</b>
	592-291-863.000	Battery - 2009 Ford Escape		129.59
<b>B &amp; F AUTO SUPPLY INC</b>			<b>Invoice Amount:</b>	<b>\$8.30</b>
Vehicle supplies			<b>Check Date:</b>	<b>05/17/2016</b>
	592-291-863.000	Oil		8.30
<b>B &amp; F AUTO SUPPLY INC</b>			<b>Invoice Amount:</b>	<b>\$7.38</b>
Vehicle supplies			<b>Check Date:</b>	<b>05/17/2016</b>
	592-291-863.000	Ring terminal		3.69
	592-291-863.000	Ring terminal		3.69
			<b>Total Amount to be Disbursed:</b>	<b>\$495,927.44</b>

**Charter Township of Plymouth  
AP Invoice Listing - Board Report**

**ENDOR INFORMATION****INVOICE INFORMATION****KOVAC, NICHOLAS & DIANE**

Sum Tax Refund R-78-050-04-0311-000

703-000-202.000

ACCOUNTS PAYABLE

703-100-225.010

SUMMER TAX COLLECTION

**Invoice Amount:****\$732.64****Check Date:****05/16/2016**

711.27

21.37

**KOVAC, NICHOLAS & DIANE**

Win Tax Refund R-78-050-04-0311-000

703-000-202.000

ACCOUNTS PAYABLE

703-100-275.000

WINTER TAX HOLDING ACCOUNT

**Invoice Amount:****\$274.39****Check Date:****05/16/2016**

269.40

4.99

**D'ACHILLE LINDA**

Sum Tax Refund R-78-052-05-0034-000

703-000-202.000

ACCOUNTS PAYABLE

**Invoice Amount:****\$1,130.40****Check Date:****05/16/2016**

1,130.40

**Total Amount to be Disbursed:****\$2,137.43**