

**CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019**

CALL TO ORDER

CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019

ITEM A
ROLL CALL

CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019

ITEM B
PLEDGE OF ALLEGIANCE

**CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019**

**ITEM C
APPROVAL OF AGENDA
TUESDAY, AUGUST 27, 2019**

CHARTER TOWNSHIP OF PLYMOUTH BOARD OF TRUSTEES MEETING

Tuesday, August 27, 2019
7:00 PM



CALL TO ORDER AT _____ P.M.

A. ROLL CALL: Kurt Heise_____, Mark Clinton_____, Chuck Curmi_____,
Bob Doroshewitz_____, Jerry Vorva_____, Jack Dempsey_____,
Gary Heitman_____

B. PLEDGE OF ALLEGIANCE

C. APPROVAL OF AGENDA

Tuesday, August 27, 2019

D. APPROVAL OF CONSENT AGENDA

D.1 Approval of Minutes:

Regular Meeting – Tuesday, July 23, 2019

D.2 Acceptance of Communications, Resolutions, Reports

Building Department Monthly Report - July 2019

Fire Department Monthly Report - July 2019

Police Department Monthly Report - July 2019

Planning Department Monthly Report - July 2019

FOIA Monthly Report - Clerk's Office - July 2019

FOIA Monthly Report - Police Department - July 2019

Report from Election Commissioners

D.3 Approval of Township Bills:

FUND	ACCT	ALREADY PAID	TO BE PAID	TOTAL:
General Fund	101	\$1,162,491.13	\$93,842.27	\$1,256,333.40
Solid Waste Fund	226	7,965.59	103,431.49	111,397.08
Improvement Revolving (Capital)	246	0.00	0.00	0.00

CHARTER TOWNSHIP OF PLYMOUTH BOARD OF TRUSTEES MEETING

Tuesday, August 27, 2019
7:00 PM



Drug Forfeiture Fund	265	0.00	0.00	0.00
Drug Forfeiture State	266	0.00	0.00	0.00
Drug Forfeiture IRS	267	472.05	0.00	472.05
Golf Course Fund	510	0.00	0.00	0.00
Senior Transportation	588	11,174.19	1,548.80	12,722.99
Water/Sewer Fund	592	657,795.69	28,496.11	686,291.80
Trust and Agency	701	62,580.29	0.00	62,580.29
Police Bond Fund	702	13,306.00	0.00	13,306.00
Tax Pool	703	10,727.22	0.00	10,727.22
Special Assessment Capital	805	3,213.01	0.00	3,213.01
TOTALS:		\$1,929,725.17	\$227,318.67	\$2,157,043.84

E. PUBLIC COMMENTS AND QUESTIONS (Limited to 3 minutes)

F. NEW BUSINESS

1. Phoenix Mill Brownfield Plan, **Resolution #2019-08-27-74**, *Planning Director Laura Haw*
2. Intergovernmental Agreement with Wayne County for Litchfield Drive SAD, **Resolution #2019-08-27-75**, *Supervisor Kurt Heise*
3. Fee Schedule Amendment Resolution, **Resolution #2019-08-27-76**, *Clerk Jerry Vorva*

CHARTER TOWNSHIP OF PLYMOUTH BOARD OF TRUSTEES MEETING

Tuesday, August 27, 2019
7:00 PM



4. Employee Benefits Through MERS (*Discussion Only*), Supervisor Kurt Heise
5. AT&T METRO Act Permit renewal, **Resolution #2019-08-27-77**, Attorney Kevin Bennett

G. SUPERVISOR AND TRUSTEE COMMENTS

H. PUBLIC COMMENTS AND QUESTIONS (Limited to 3 Minutes)

I. CLOSED SESSION

At _____ p.m. _____ moved that a closed session be called for the purpose of discussing contract negotiations with labor attorney in accordance with OMA Section 8(c), MCL 15.268(c). Seconded by _____.

J. RETURN TO OPEN SESSION

At _____ p.m. _____ moved that the board return to open session. Seconded by _____.

K. 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)

**The Public Is Invited and Encouraged To Attend All Meetings of
the Board of Trustees of the Charter Township of Plymouth.**

**CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019**

CONSENT AGENDA

**ITEM D.1
APPROVAL OF MINUTES
REGULAR MEETING
TUESDAY, JULY 23, 2019**

**CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
TUESDAY, JULY 23, 2019**

PROPOSED MINUTES

Supervisor Heise called the meeting to order at 7:00 p.m.

MEMBERS PRESENT: Kurt Heise, Supervisor
Mark Clinton, Treasurer
Charles Curmi, Trustee
Jack Dempsey, Trustee
Gary Heitman, Trustee
Jerry Vorva, Clerk

MEMBERS ABSENT: Robert Doroshewitz, Trustee, Excused

OTHERS PRESENT: Patrick Fellrath, P.E., Director of Public Services
Dan Phillips, Fire Chief
Thomas Tiderington, Police Chief
Kevin Bennett, Township Attorney
David Richmond, Spalding DeDecker
Sandra Groth, Deputy Clerk
Sue Brams, Exec. Asst. to Supervisor
Alice Geletzke, Recording Secretary
10 Members of the Public

B. PLEDGE OF ALLEGIANCE – Aaron Sprague, WTUA Executive Director

C. APPROVAL OF AGENDA
Tuesday, July 23, 2019

Moved by Clerk Vorva and seconded by Trustee Heitman to approve the agenda for the Board of Trustees regular meeting of July 23, 2019, minus Item F.5, Election Worker Reclassification and Pay Adjustments. Ayes all.

D. APPROVAL OF CONSENT AGENDA

D.1 Approval of Minutes:
Regular Meeting – Tuesday, July 9, 2019

D.2 Acceptance of Communications, Resolutions, Reports
Building Department Monthly Report - June 2019
Fire Department Monthly Report - June 2019
Police Department Monthly Report - June 2019
Planning Department Monthly Report - May 2019

**CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
TUESDAY, JULY 23, 2019**

PROPOSED MINUTES

Planning Department Monthly Report - June 2019
FOIA Monthly Report - Clerk's Office - June 2019
FOIA Monthly Report - Police Department - June 2019

D.3 Approval of Township Bills:

FUND	ACCT	ALREADY PAID	TO BE PAID	TOTAL:
General Fund	101	\$382,227.16	\$89,951.31	\$472,178.47
Solid Waste Fund	226	3,655.56	103,747.49	107,403.05
Improvement Revolving (Capital)	246	0.00	0.00	0.00
Drug Forfeiture Fund	265	0.00	37,617.00	37,617.00
Drug Forfeiture State	266	0.00	1,572.00	1,572.00
Drug Forfeiture IRS	267	0.00	0.00	0.00
Golf Course Fund	510	0.00	134.00	134.00
Senior Transportation	588	4,180.41	105.56	4,285.97
Water/Sewer Fund	592	255,756.12	13,242.07	268,998.19
Trust and Agency	701	15,154.00	0.00	15,154.00
Police Bond Fund	702	3780.00	0.00	3780.00
Tax Pool	703	0.00	0.00	0.00
Special Assessment Capital	805	38.01	11,924.75	11,962.76

**CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
TUESDAY, JULY 23, 2019**

PROPOSED MINUTES

TOTALS:		\$664,791.26	\$258,294.18	\$923,085.44
----------------	--	---------------------	---------------------	---------------------

Moved by Trustee Heitman and seconded by Clerk Vorva to approve the consent agenda for the Board of Trustees regular meeting of July 23, 2019. Ayes all.

E. PUBLIC COMMENTS AND QUESTIONS (Limited to 3 minutes) - None

Copies of the Resolutions listed below are on file in the Clerk's Office for public perusal.

F. NEW BUSINESS

1. WTUA Annual Budget, **Resolution #2019-07-23-69**, *WTUA Director Aaron Sprague*

Mr. Sprague reviewed the proposed budget, the draft of which has been reviewed without objection by the WTUA Board of Directors, comprised of the Supervisors of Plymouth, Canton and Northville Townships. The Townships now must approve the budget.

Moved by Trustee Heitman and seconded by Treasurer Clinton that the Board of Trustees adopt **Resolution #2019-07-23-69**, authorizing the 2019-20 WTUA Budget per the recommendations of the WTUA Executive Director. Ayes all on a roll call vote.

2. Rouge Valley Interceptor System Final Negotiated Termination Agreement, **Resolution #2019-07-23-70**, *WTUA Director Aaron Sprague and Supervisor Kurt Heise*

Official withdrawal from the North Huron Valley/Rouge Valley Sewer system occurred in summer of 2017, but negotiations continued toward a final settlement, now agreed to by attorneys for the County and WTUA. Also involved were engineering and financial considerations of the "Swap" Agreement with the City of Plymouth.

Moved by Trustee Curmi and seconded by Trustee Heitman to adopt **Resolution #2019-07-23-70**, authorizing the Termination Agreement with Wayne County relating to the Township's withdrawal from the North Huron Valley/Rouge Valley Sewer Interceptor System and authorize the Supervisor and Clerk to sign on behalf of the Township. Ayes all on a roll call vote.

**CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
TUESDAY, JULY 23, 2019**

PROPOSED MINUTES

3. Bid Award for Ball Diamond Pathway Project, **Resolution #2019-07-23-71**,
Engineer Dave Richmond

Dave Richmond of Spalding DeDecker addressed the Board regarding the five sealed bids received and the recommendation for the low bidder, Merlo Construction Co. This is to be paid for by a portion of the funds from Wayne County which is allocated for parks and recreation projects.

Moved by Trustee Heitman and seconded by Trustee Dempsey to adopt **Resolution #2019-07-23-71**, to authorize the award of the Township Park Path to Ballfield #4 to Merlo Construction Co. in the amount of \$40,495.00. Ayes all on a roll call vote.

4. Bid Award for Miller Park Pavilion Project, **Resolution #2019-07-23-72**,
Engineer Dave Richmond

Mr. Richmond reviewed bids received for the project and work to be done constructing a 20' x 44' prefabricated picnic shelter with amenities. A generous donation from Mr. Tim Doyle, in the name of former Trustee Kay Arnold, will cover the costs.

Moved by Clerk Vorva and seconded by Trustee Heitman to adopt **Resolution #2019-07-23-72**, authorizing the award of the Miller Park Picnic Shelter to Sole Building Company in the amount of \$96,192.00. Ayes all on a roll call vote.

5. Election Worker Reclassification and Pay Adjustments, **Resolution #2019-07-23-73**, *Deputy Clerk Sandy Groth*

This item was removed from the agenda.

G. SUPERVISOR AND TRUSTEE COMMENTS

Supervisor Heise indicated that the State delayed consideration of all applications for the MITC grant until later this summer. He said there will be no study session for the Board in August and no regular meeting on August 13. The next regular meeting will be held on August 27.

Trustee Heitman had questions on the replacement of the Finance Director.

Clerk Vorva commented on the payments made to the Township by the City.

Trustee Dempsey commented on recent power outages.

**CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
TUESDAY, JULY 23, 2019**

PROPOSED MINUTES

Trustee Curmi asked about sidewalk status and had questions about transport negotiations.

H. PUBLIC COMMENTS AND QUESTIONS (Limited to 3 Minutes)

Susan Bondie commented on recommendations of the Public Safety Committee.

I. ADJOURNMENT

Moved by Trustee Heitman and seconded by Trustee Dempsey to adjourn the meeting at 7:52 p.m. Ayes all.

Jerry Vorva, Township Clerk

**CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019**

CONSENT AGENDA

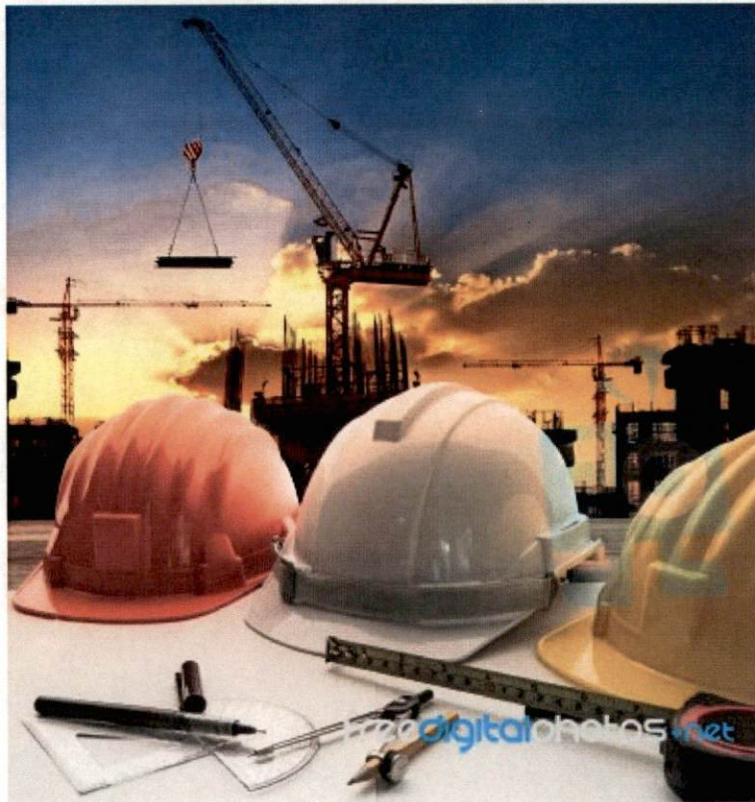
**ITEM D.2
ACCEPTANCE OF COMMUNICATIONS,
RESOLUTIONS, REPORTS
JULY, 2019**

**CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019**

CONSENT AGENDA

**ITEM D.2
BUILDING DEPARTMENT
MONTHLY REPORT
JULY, 2019**

CHARTER TOWNSHIP OF PLYMOUTH
DEPARTMENT OF BUILDING & CODE ENFORCEMENT



MONTHLY REPORT

JULY
2019

New Commerical Building for 2019

Company Name	Property Address	Type of Work	Construction Value	Status	Month
Webasto	14200 Haggerty	New building	18,197,930		
Total Construction Value			18,197,930		

New Commercial Additions/Alterations for 2019

Company Name	Property Address	Type of Work	Construction Value	Status	Month
Freudenberg	47690 Anchor CT	Hydrogen tank	30,000	Issued	January
Anderson Process	41304 Concept	Tenant Finish	140,000	Issued	January
Michigan Medical Association	9401 General DR	Tenant Finish	85,000	Issued	January
Lairds Glass	42320 Ann Arbor Rd	Exterior remodel	53,200	Issued	January
Burrough's	41100 Plymouth Rd	3rd floor lobby/conference	125,000	Issued	January
Buddy's Pizza	15075 Beck RD	Tenant Finish	380,000	Issued	February
St John's Conference Center	44045 Five Mile	Bathroom updates	60,000	Issued	March
Burrough's	41100 Plymouth Rd	Remodel 18 bathrooms	225,000	Issued	March
Peak Wealth Management	41011 Ann Arbor RD	Interior remodel	80,000	Issued	March
Adient US LLC	49200 Halyard	Phase 2D Interior	1,250,000	Issued	March
Comprehensive Care Specialist	45211 Helm	Tenant Finish	400,000	Issued	April
Hock DDS	44560 Ann Arbor RD	Tenant Finish	244,300	Issued	April
Link Engineering	41100 Plymouth Rd	Tenant Finish	250,000	Issued	April
Rivian	13250 Haggerty RD	Tenant Finish	900,000	Issued	April
Banks Vacuum	937 Ann Arbor RD	Tenant Finish	20,000	Issued	May
Burrough's	41100 Plymouth Rd	Tenant Finish	88,000	Issued	May
Burrough's	41101 Plymouth Rd	Tenant Finish	800	Issued	May
Burrough's	41102 Plymouth Rd	Tenant Finish	148,000	Issued	May
Adient US LLC	49200 Halyard	Site Improvements	3,300,000	Issued	May
Freudenberg	47690 Anchor CT	Hydrogen tank	173,000	Issued	May
Cygnat	9120 General DR	Truck wells	201,319	Issued	June
Plymouth Parks & Eats	39411 Schoolcraft	Dumpster enclosure	3,000	Issued	June
Powers and Sons LLC	47676 Galleon	Tenant Finish	35,000	Issued	June
Baptist State Conventioning	41100 Plymouth RD #315	Tenant Finish	46,000	Issued	June

Company Name	Property Address	Type of Work	Construction Value	Status	Month
Hines Park Lincoln	40601 Ann Arbor RD	Car wash addition	200,000	Issued	June
Chase Bank	235 Sheldon RD	Solar Panels	12,489	Issued	July
PI-Innovo	47047 5 Mile RD	Tenant Finish	500,000	Issued	July
General Plymouth LLC	11333 General DR	Interior remodel	22,000	Issued	July
Adient US LLC	49200 Halyard	Phase 2E	250,000	Issued	July
McDonald's	15110 Beck RD	Interior/exterior remodel	250,000	Issued	July
Bosch Corporation	15000 Haggerty	Flag Poles	10,870	Issued	July
Kroger Plaza	Ann Arbor RD	Asphalt	90,000	Issued	July
Total Construction Value			4,330,500		
Grand Total Construction Value			<u>22,528,430</u>		

Building Department 2019

Classification	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	2019 Totals
Total Building Permits	43	41	104	216	129	122	148						803
Trade Permits													
Electrical	30	27	24	37	39	48	31						236
Mechanical	47	64	51	62	64	62	61						411
Plumbing	21	17	17	29	37	14	17						152
Sewer & Water	1	7	11	4	8	5	7						43
Total Trade Permits	142	156	207	348	277	251	264	0	0	0	0	0	1645
Miscellaneous													
Special Inspections	0	0	0	1	3	0	0						4
Temp Certificate of Occupancy	2	1	1	0	1	1	1						7
Re-Occupancy	0	0	1	0	1	1	0						3
Plan Review	9	5	9	6	18	14	12						73
ZBA	0	1	1	0	1	3	0						6
Re-inspection fees	5	8	3	7	2	6	7						38
Vacant Land Resigtration	0	0	0	0	0	0	0						0
Total Miscellaneous	16	15	15	14	26	25	20	0	0	0	0	0	131
Application Fee's													
Building	34	38	93	207	122	114	131						739
Electrical	28	27	20	36	36	57	27						231
Mechanical	44	58	50	61	65	66	63						407
Plumbing	19	14	18	30	41	14	16						152
License & Registration													
Builders	5	3	5	12	12	7	10						54
Electrical	19	18	6	23	15	15	11						107
Mechanical	7	6	2	7	4	1	1						28
Plumbing	6	5	1	6	11	5	8						42
Total Misc/License/Application	178	184	210	396	332	304	287	0	0	0	0	0	1891
Grand Total	320	340	417	744	609	555	551	0	0	0	0	0	3536
Staffing Levels													
Chief Building Official	1	1	1	1	1	1	1	1	1	1	1	1	
Full Time Building Inspector	1	1	1	1	1	1	1						
Full Time Office Manager	1	1	1	1	1	1	1						
Part-time Time Ordinance Officer	1	1	1	1	1	1	1						

Residential Housing 2019

Single Family Detached

	<u>Total #</u> <u>Buildings</u>	<u>Total #</u> <u>Dwelling</u>	<u>Total</u> <u>Value</u> <u>Construction</u>	<u>Total</u> <u>Square</u> <u>Feet</u>
January	0			
February	0			
March	1	1	658,484	4,896
April	0			
May	4	4	1,235,626	10,618
June	0			
July	0			
August				
September				
October				
November				
December				
Totals	5	5	\$1,894,110	15,514

Single Family Attached (Townhouses/ Row Houses)

	<u>Total #</u> <u>Buildings</u>	<u>Total #</u> <u>Dwelling</u>	<u>Total</u> <u>Value</u> <u>Construction</u>	<u>Total</u> <u>Square</u> <u>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			
Totals	0	0	\$ -	-

Two-Family Buildings (Duplex)

	<u>Total #</u> <u>Buildings</u>	<u>Total #</u> <u>Dwelling</u>	<u>Total</u> <u>Value</u> <u>Construction</u>	<u>Total</u> <u>Square</u> <u>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			
Totals	0	0	\$ -	-

Three-or-more Family Building (Apartments/Stacked Condos)

	<u>Total #</u> <u>Buildings</u>	<u>Total #</u> <u>Dwelling</u>	<u>Total</u> <u>Value</u> <u>Construction</u>	<u>Total</u> <u>Square</u> <u>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			
Totals	0	0	\$ -	-

	<u>Total #</u> <u>Buildings</u>	<u>Total #</u> <u>Dwelling</u>	<u>Value</u> <u>Construction</u>	<u>Square</u> <u>Feet</u>
Totals all categories	5	5	\$1,894,110	15,514



Revenue Breakdown Report

Page: 1 of 30

08/05/2019

Filter: All Records, Transaction.DateToPostOn in <Previous month> [07/01/19 - 07/31/19] AND
 Transaction.TransactionNumber Not = 67,079 AND
 Transaction.TransactionNumber Not = 67,078

Unit Totals		
Unit Name	Records	Revenue
	264	105,782.44
TOTAL	264	105,782.44

Record Type Totals		
Unit:	Records	Revenue
Permit	264	105,782.44
UNIT TOTAL:	264	105,782.44

Record Type Breakdowns		
Unit:		
Record Type: Permit	Records	Revenue
Building	148	51,860.00
Electrical	31	6,245.00
Mechanical	61	10,950.00
Plumbing	17	2,220.00
Sewer & Water	7	34,507.44
TOTAL:	264	105,782.44

71.275

Certificate of Occupancy List

08/06/2019

1/1

CofO Number	Status	Issued To	Address	CofO and Permit Dates	
OF19-0017	ISSUED (FINAL)	PLATINUM ACQUISITIONS	9201 Oakview	<u>CO Date Apply:</u> 07/01/2019	<u>CO Date Finaled:</u> 07/01/2019
<u>Permit Number</u> PB18-0681	<u>Applicant Name</u> Stile Homes LLC		<u>Contractor</u> Stile Homes LLC	<u>Permit Date Apply:</u> 07/23/2018	<u>Permit Date Issued:</u> 8/30/2018
OF19-0018	ISSUED (FINAL)	Buddy's Pizzaria	15075 Beck RD	<u>CO Date Apply:</u> 07/08/2019	<u>CO Date Finaled:</u> 07/08/2019
<u>Permit Number</u> PB18-1097	<u>Applicant Name</u> Ryan Construction Inc		<u>Contractor</u> Ryan Construction Inc	<u>Permit Date Apply:</u> 12/07/2018	<u>Permit Date Issued:</u> 2/01/2019
OF19-0019	ISSUED (FINAL)	Plymouth 848 LLC	13250 Haggerty RD	<u>CO Date Apply:</u> 07/10/2019	<u>CO Date Finaled:</u> 07/10/2019
<u>Permit Number</u> PB19-0140	<u>Applicant Name</u> PCI Industries Inc		<u>Contractor</u> PCI Industries Inc	<u>Permit Date Apply:</u> 03/20/2019	<u>Permit Date Issued:</u> 4/18/2019
OF19-0020	ISSUED (FINAL)	CAMPBELL, JEFFREY - KIM	12138 AMHERST CT	<u>CO Date Apply:</u> 07/11/2019	<u>CO Date Finaled:</u> 07/11/2019
<u>Permit Number</u> PB17-1002	<u>Applicant Name</u> MODERN METHOD CONSTRUCTION		<u>Contractor</u> MODERN METHOD CON	<u>Permit Date Apply:</u> 10/18/2017	<u>Permit Date Issued:</u> 1/13/2017
OF19-0021	ISSUED (FINAL)	ADIEN'T US LCC	49200 HALYARD DR (CTU	<u>CO Date Apply:</u> 07/15/2019	<u>CO Date Finaled:</u> 07/15/2019
<u>Permit Number</u> PB18-0297	<u>Applicant Name</u> Ronnish Construction Group		<u>Contractor</u> Ronnish Construction Group	<u>Permit Date Apply:</u> 04/23/2018	<u>Permit Date Issued:</u> 6/01/2018
OF19-0022	ISSUED (FINAL)	AGAPE HOUSE OF PRAYER	41233 ANN ARBOR TR	<u>CO Date Apply:</u> 07/12/2019	<u>CO Date Finaled:</u> 07/12/2019
<u>Permit Number</u> PB19-0577	<u>Applicant Name</u> AGAPE HOUSE OF PRAYER CHURCH		<u>Contractor</u>	<u>Permit Date Apply:</u> 06/12/2019	<u>Permit Date Issued:</u> 6/12/2019
OF19-0023	ISSUED (FINAL)	Michigan Medical Association	9401 General DR 140	<u>CO Date Apply:</u> 07/19/2019	<u>CO Date Finaled:</u> 07/19/2019
<u>Permit Number</u> PB18-1099	<u>Applicant Name</u> AP Fiorini LLC		<u>Contractor</u> AP Fiorini LLC	<u>Permit Date Apply:</u> 12/10/2018	<u>Permit Date Issued:</u> 1/16/2019

All Records

Co.DateFinaled Between 7/1/2019 12:00:00 AM AND

7/31/2019 11:59:59 PM AND

Co.Status = ISSUED (FINAL)

Number of CofO's: 7

Temporary Certificates of Occupancy

Date	Address	Occupant	Category	Permit
July 24, 2019	41656 Ann Arbor RD	Monroe Bank & Trust	Commercial	PB18-0902
July 25, 2109	9464 Northern	Gjergji Dervishi	Residentail	PB18-0226

**CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019**

CONSENT AGENDA

**ITEM D.2
FIRE DEPARTMENT
MONTHLY REPORT
JULY, 2019**



Plymouth Township Fire Department

Monthly Report

July 2019

Response Information:

The Plymouth Township Fire Department responded to **285** emergencies this month.

There was an average of **9.19** runs per day this month.

PTFD's average response time was **5 minutes, 27 seconds** to the scene. This includes all responses including non-emergent.

Mutual Aid:

Plymouth Township Fire Department is a member of the Western Wayne County Mutual Aid Association.

	Mutual Aid Received	Mutual Aid Given
Canton	1	6
Northville City	1	3
Northville Township	3	5
Westland	3	1
HVA	2	
HAZMAT	1	

EMS Information:

HVA transported **105** patients to the hospital.

Plymouth Township Fire transported **32** patients to the hospital.

Plymouth transports billed out **\$19,872.20** this month, received **\$27,324.33** and have **\$9,268.57** in outstanding bills over 180 days.

Fire Loss:

There were **7** fires this month that accounted for **\$25,300.00** worth of damage to possessions and property. We prevented the destruction of **\$385,463.00** in property.

Fire Prevention:

Plymouth Township Fire Department provided **21** comprehensive fire inspections to businesses within Plymouth Township.

Fire Safety public education classes in CPR, Fire Extinguisher and Fire Safety are provided throughout the year.

This month, the department conducted **3** fire safety talks to a total of **70** participants.

In January run a 12 month/yearend report of previous year.

Reports Included:

CLEMIS Reports

Incidents Section

- Incident Summary by Incident type
 - Incident Type
 - Type count
 - Property Loss
 - Property Value
- Mutual Aid by Department
 - Mutual aid Received
 - Mutual Aid Given

Local Section

- Fire Department Response Times
 - Turnout Time
 - Response Time

Health EMS

Agency Productivity

- Agency Activity Summary
 - Patients Transported by HVA
 - Patients Transported by PCFD

Billing Summary

Inspection Report

Total count for Public Education – Review Fire Modules Calendar

Yearend - include total training hours

Incident Type Count Report

Date Range: From 7/1/19 To 7/31/19

Selected Station(s): all



Count

Station:

321 - EMS call, excluding vehicle accident with injury	1	.4%
Total - Rescue & Emergency Medical Service Incidents	1	.4%
7 - False Alarm & False Call	1	.4%
Total - False Alarm & False Call	1	.4%
Total for Station	2	.7%

Station: MA

131 - Passenger vehicle fire	1	.4%
Total - Fires	1	.4%
321 - EMS call, excluding vehicle accident with injury	3	1.1%
Total - Rescue & Emergency Medical Service Incidents	3	1.1%
611 - Dispatched & cancelled en route	1	.4%
Total - Good Intent Call	1	.4%
Total for Station	5	1.8%

Station: ST1

114 - Chimney or flue fire, confined to chimney or flue	1	.4%
Total - Fires	1	.4%
300 - Rescue, emergency medical call (EMS) call, other	1	.4%
321 - EMS call, excluding vehicle accident with injury	75	26.3%
322 - Vehicle accident with injuries	7	2.5%
324 - Motor vehicle accident with no injuries	2	.7%
Total - Rescue & Emergency Medical Service Incidents	85	29.8%
4 - Hazardous Conditions (No fire)	1	.4%
412 - Gas leak (natural gas or LPG)	1	.4%
424 - Carbon monoxide incident	1	.4%
444 - Power line down	1	.4%
461 - Building or structure weakened or collapsed	1	.4%
Total - Hazardous Conditions (No fire)	5	1.8%
550 - Public service assistance, other	1	.4%
554 - Assist invalid	4	1.4%
Total - Service Call	5	1.8%
611 - Dispatched & cancelled en route	5	1.8%

3416

	<u>Count</u>	
622 - No incident found on arrival at dispatch address	1	.4%
650 - Steam, other gas mistaken for smoke, other	1	.4%
Total - Good Intent Call	7	2.5%
700 - False alarm or false call, other	1	.4%
736 - CO detector activation due to malfunction	1	.4%
Total - False Alarm & False Call	2	.7%
9 - Special incident type	1	.4%
9001 - Dispatch Error	1	.4%
Total - Special Incident Type	2	.7%
Total for Station	107	37.5%

Station: ST2

30 - Rescue, emergency medical call (EMS), other	1	.4%
311 - Medical assist, assist EMS crew	1	.4%
321 - EMS call, excluding vehicle accident with injury	48	16.8%
322 - Vehicle accident with injuries	2	.7%
Total - Rescue & Emergency Medical Service Incidents	52	18.2%
424 - Carbon monoxide incident	1	.4%
442 - Overheated motor	1	.4%
444 - Power line down	1	.4%
445 - Arcing, shorted electrical equipment	1	.4%
Total - Hazardous Conditions (No fire)	4	1.4%
500 - Service Call, other	2	.7%
542 - Animal rescue	1	.4%
553 - Public service	1	.4%
Total - Service Call	4	1.4%
611 - Dispatched & cancelled en route	2	.7%
Total - Good Intent Call	2	.7%
715 - Local alarm system, malicious false alarm	1	.4%
731 - Sprinkler activation due to malfunction	1	.4%
733 - Smoke detector activation due to malfunction	1	.4%
Total - False Alarm & False Call	3	1.1%
Total for Station	65	22.8%

Station: ST3

100 - Fire, other	1	.4%
113 - Cooking fire, confined to container	1	.4%
131 - Passenger vehicle fire	1	.4%
140 - Natural vegetation fire, other	1	.4%
151 - Outside rubbish, trash or waste fire	1	.4%
Total - Fires	5	1.8%
251 - Excessive heat, scorch burns with no ignition	1	.4%
Total - Overpressure Rupture, Explosion, Overheat - no fire	1	.4%
300 - Rescue, emergency medical call (EMS) call, other	1	.4%

	<u>Count</u>	
321 - EMS call, excluding vehicle accident with injury	66	23.2%
322 - Vehicle accident with injuries	9	3.2%
324 - Motor vehicle accident with no injuries	1	.4%
Total - Rescue & Emergency Medical Service Incidents	77	27.0%
412 - Gas leak (natural gas or LPG)	1	.4%
424 - Carbon monoxide incident	1	.4%
441 - Heat from short circuit (wiring), defective/worn	1	.4%
444 - Power line down	1	.4%
445 - Arcing, shorted electrical equipment	1	.4%
Total - Hazardous Conditions (No fire)	5	1.8%
500 - Service Call, other	1	.4%
542 - Animal rescue	1	.4%
Total - Service Call	2	.7%
611 - Dispatched & cancelled en route	1	.4%
6111 - Hospice Death	1	.4%
611E - EMS: Dispatched & cancelled en route	1	.4%
622 - No incident found on arrival at dispatch address	1	.4%
651 - Smoke scare, odor of smoke	1	.4%
Total - Good Intent Call	5	1.8%
700 - False alarm or false call, other	3	1.1%
733 - Smoke detector activation due to malfunction	3	1.1%
740 - Unintentional transmission of alarm, other	2	.7%
746 - Carbon monoxide detector activation, no CO	2	.7%
Total - False Alarm & False Call	10	3.5%
814 - Lightning strike (no fire)	1	.4%
Total - Severe Weather & Natural Disaster	1	.4%
Total for Station	106	37.2%
	285	100.0%

Municipal Response Times Report

For Dates Beginning 7/1/19 Ending 7/31/19
Incident Types selected for analysis: All
For All Priority Types



Time in Minutes	Alarm to Dispatch	Percent Total	Cumulative Responses	Percent	Dispatch to Enroute	Percent Total	Cumulative Responses	Percent	Enroute to Arrival	Percent Total	Cumulative Responses	Percent	Alarm to Arrival	Percent Total	Cumulative Responses	Percent	Dispatch to Arrival	Percent Total	Cumulative Responses	Percent
0 - 1	157	58.80	157	58.80	102	39.23	102	39.23	17	6.67	17	6.67	3	1.16	3	1.16	6	2.32	6	2.32
1 - 2	89	33.33	246	92.13	111	42.69	213	81.92	26	10.20	43	16.86	9	3.47	12	4.63	12	4.63	18	6.95
2 - 3	17	6.37	263	98.50	36	13.85	249	95.77	47	18.43	90	35.29	13	5.02	25	9.65	24	9.27	42	16.22
3 - 4	2	0.75	265	99.25	8	3.08	257	98.85	57	22.35	147	57.65	23	8.88	48	18.53	32	12.36	74	28.57
4 - 5	1	0.37	266	99.63	2	0.77	259	99.62	36	14.12	183	71.76	34	13.11	82	31.66	56	21.62	130	50.19
5 - 6	0	0.00	266	99.63	1	0.38	260	100.00	26	10.20	209	81.96	40	15.44	122	47.10	44	16.99	174	67.18
6 - 7	1	0.37	267	100.00	0	0.00	260	100.00	13	5.10	222	87.06	48	18.53	170	65.64	22	8.49	196	75.68
7 - 8	0	0.00	267	100.00	0	0.00	260	100.00	15	5.88	237	92.94	27	10.42	197	76.06	28	10.81	224	86.49
8 - 9	0	0.00	267	100.00	0	0.00	260	100.00	6	2.35	243	95.29	27	10.42	224	86.49	10	3.86	234	90.35
9 - 10	0	0.00	267	100.00	0	0.00	260	100.00	2	0.78	245	96.08	10	3.86	234	90.35	10	3.86	244	94.21
10 +	0	0.00	267	100.00	0	0.00	260	100.00	10	3.92	255	100.00	25	9.65	259	100.00	15	5.79	259	100.00

Incident
Total
267

Average Times per Incident

Average PSAP Processing Time 0 minute(s) 54 second(s)
(Alarm to Dispatch) Percent less than or equal to 60 Seconds 58.80
Percent less than or equal to 90 Seconds 81.65

Average Fire Department Turn Out Time 1 minute(s) 21 second(s)
(Dispatch to Enroute)

Average Fire Department Turn Out and Travel Time 5 minute(s) 27 second(s)
(Dispatch to Arrive)

Average Municipal Response Time 6 minute(s) 22 second(s)
(Alarm to Arrive)

Percentile Response Times in Accordance with NFPA Standards

PSAP Processing Time less than 60 seconds 58.80%
(Alarm to Dispatch)

Fire Department Turn Out Time less than 60 seconds 39.23%
(Dispatch to Enroute)

Fire Department Travel Time less than 4 minutes 57.65%
(Enroute to Arrive)

6 of 16

Listing of Mutual Aid Responses by Mutual Aid Department



Time Period: 7/1/19 - 7/31/19

Department: Canton Twp FD

Mutual aid received

190001729	7/27/19 7:46:57AM	1	08204	9955 HAGGERTY RD
-----------	-------------------	---	-------	------------------

<i>Subtotal Mutual aid received</i>		1		
-------------------------------------	--	---	--	--

Mutual aid given

190001504	7/2/19 10:06:56PM	3	08204	7501 WINDSOR WOODS
190001505	7/2/19 11:04:39PM	3	08204	JOY RD
190001590	7/12/19 9:52:16AM	3	08204	41937 FORD
190001691	7/22/19 2:49:41PM	3	08204	49776 GARFIELD
190001730	7/27/19 11:48:19AM	3	08204	1150 S CANTON CENTER
190001764	7/31/19 2:03:44PM	3	08204	N LILLEY

<i>Subtotal Mutual aid given</i>		6		
----------------------------------	--	---	--	--

<i>Subtotal Canton Twp FD</i>		7		
-------------------------------	--	---	--	--

Department: City of Northville FD

Automatic aid received

190001619	7/16/19 9:31:11AM	2	08232	13101 HIDDEN CREEK DR
-----------	-------------------	---	-------	-----------------------

<i>Subtotal Automatic aid received</i>		1		
--	--	---	--	--

Mutual aid given

190001722	7/26/19 12:22:29PM	3	08232	650 S MAIN ST
-----------	--------------------	---	-------	---------------

<i>Subtotal Mutual aid given</i>		1		
----------------------------------	--	---	--	--

Automatic aid given

190001669	7/20/19 3:04:19PM	4	08232	394 N SHELDON RD
190001763	7/31/19 1:26:44PM	4	08232	177 N MAIN ST

<i>Subtotal Automatic aid given</i>		2		
-------------------------------------	--	---	--	--

<i>Subtotal City of Northville FD</i>		4		
---------------------------------------	--	---	--	--

Department: Northville Twp FD

Mutual aid received

190001621	7/16/19 11:16:07AM	1	08255	49572 NORTH DR
190001661	7/19/19 8:27:11PM	1	08255	49525 POINTE XING

<i>Subtotal Mutual aid received</i>		2		
-------------------------------------	--	---	--	--

Automatic aid received

Time Period: 7/1/19 - 7/31/19

190001619	7/16/19 9:31:11AM	2	08255	13101 HIDDEN CREEK DR
-----------	-------------------	---	-------	-----------------------

<i>Subtotal Automatic aid received</i>	<i>1</i>
--	----------

Mutual aid given

190001491	7/1/19 7:38:27PM	3	08255	40033 EIGHT MILE RD
190001499	7/2/19 9:56:32AM	3	08255	HAGGERTY RD
190001572	7/10/19 8:37:26PM	3	08255	15870 HAGGERTY RD
190001631	7/16/19 4:55:59PM	3	08255	15870 HAGGERTY RD
190001761	7/31/19 11:24:03AM	3	08255	49059 S RAINBOW LN

<i>Subtotal Mutual aid given</i>	<i>5</i>
----------------------------------	----------

<i>Subtotal Northville Twp FD</i>	<i>8</i>
-----------------------------------	----------

Department: Westland Fire Department**Mutual aid given**

190001731	7/27/19 12:17:11PM	3	8251	6501 YALE AVE
-----------	--------------------	---	------	---------------

<i>Subtotal Mutual aid given</i>	<i>1</i>
----------------------------------	----------

<i>Subtotal Westland Fire Department</i>	<i>1</i>
--	----------

Department: Huron Valley Ambulance**Mutual aid received**

190001655	7/19/19 9:38:47AM	1	HVA	46356 ROCKLEDGE DR
190001729	7/27/19 7:46:57AM	1	HVA	9955 HAGGERTY RD

<i>Subtotal Mutual aid received</i>	<i>2</i>
-------------------------------------	----------

<i>Subtotal Huron Valley Ambulance</i>	<i>2</i>
--	----------

Department: Hazardous Materials Response Team**Mutual aid received**

190001670	7/20/19 6:39:06PM	1	WWMA	STATE HWY
-----------	-------------------	---	------	-----------

<i>Subtotal Mutual aid received</i>	<i>1</i>
-------------------------------------	----------

<i>Subtotal Hazardous Materials Response Team</i>	<i>1</i>
---	----------

Total	21
--------------	-----------

Agency Activity Summary

Plymouth Township Fire Dept

Agency: Plymouth Township Fire Dept | Service Date: From 07/01/2019 Through 07/31/2019 | Run Disposition: Treated/Transported, Treated and Transferred Care

Total Number of ePCRs: 137

Total Number of Incidents: 136

By Branch

01 Station 1 = 53

02 Station 2 = 33

03 Station 3 = 51

Run Disposition

	#	%		#	%
Treated/Transported	32	23.4%	Dead Prior To Arrival	N/A	N/A
Treated / Transferred Care	105	76.6%	Dead After Arrival	N/A	N/A
Treated/No Transport (AMA)	N/A	N/A	Treat/Transported by Private Veh.	N/A	N/A
Treated / No Transport (Per Protocol)	N/A	N/A	Assist	N/A	N/A
Transported / Refused Care	N/A	N/A	Other	N/A	N/A
No Transport / Refused Care	N/A	N/A	No Patient Found	N/A	N/A
Cancelled	N/A	N/A			
Left Blank	N/A	N/A			

Run Type

	#	%		#	%
Emergency Runs	137	100.0%	Non-Emergency Runs	N/A	N/A
Stand By	N/A	N/A	Stand By	N/A	N/A
Mutual Aid	5	3.6%	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 Runs (Scheduled)

	N/A	N/A	Non-Emergency Runs (Scheduled)	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

Unit	Total Runs	Treat/Transp	Treat/Transfer	Treat/No Transp(AMA)	Treat/No Transp(PP)	Transp/Ref. Care	Cancelled	Dead Prior Arr	Dead After Arr	T/T Priv Veh	No Trans/Ref. Care	Assist	Other	No Pat. Found
RES1	50	13	37	0	0	0	0	0	0	0	0	0	0	0
RES2	36	8	28	0	0	0	0	0	0	0	0	0	0	0
RES3	51	11	40	0	0	0	0	0	0	0	0	0	0	0
Total	137	32	105	0	0	0	0	0	0	0	0	0	0	0

Runs by Service Level

Dispatched Service Level	#	%	Recommended Service Level	#	%
BLS	8	5.8%	BLS	106	77.4%
ALS	129	94.2%	ALS1	30	21.9%
SCT	N/A	N/A	ALS2	1	0.7%
			SCT	N/A	N/A
			Rotary Wing	N/A	N/A
			Fixed Wing	N/A	N/A

9/2/16

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	%
None	106	77.4%	30	21.9%	1	0.7%	N/A	N/A	N/A	N/A	137	100.0%

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

Description	#	%
Abdominal Pain	5	3.6%
Allergic Reaction	2	1.5%
Alt. Level Conscious	8	5.8%
Anxiety	5	3.6%
Asthma Symptoms	2	1.5%
Back Pain (No Trauma)	1	0.7%
Behavioral Disorder	2	1.5%
CVA/Stroke	2	1.5%
Cardiac Arrest	1	0.7%
Cardiac Symptoms	3	2.2%
Chest Pain	10	7.3%
Dehydration Symp.	1	0.7%
Dizziness	5	3.6%
Dyspnea-SOB	12	8.8%
Flu Symptoms	1	0.7%
GI -Diarrhea	1	0.7%
Hemorrhage-(severe medical)	3	2.2%
Hyperthermia	1	0.7%
Medication Reaction	1	0.7%
Monitoring Required	2	1.5%
Nausea	1	0.7%
No Medical Problem	4	2.9%
Nose Bleed	1	0.7%
Poisoning	1	0.7%
Psychiatric Emerg.	4	2.9%
Seizure	2	1.5%
Sore Throat	1	0.7%
Syncope/Fainting	6	4.4%
Trauma Injury	23	16.8%
Unconscious	2	1.5%
Unknown Medical	8	5.8%
Urination Problem	1	0.7%
Vomiting	2	1.5%
Weakness	10	7.3%
Left Blank	3	2.2%
Total	137	100.0%

10/8/16

Runs by Dispatch (EMD) Code

<u>Description</u>	<u>#</u>	<u>%</u>
1 Abdominal Pain	3	2.2%
10 Chest Pain [non-traumatic]	13	9.5%
12 Convulsions/Seizures	2	1.5%
17 Falls	26	19.0%
20 Heat/Cold Exposure	1	0.7%
21 Hemorrhage/Lacerations	4	2.9%
23 Overdose/poisoning	4	2.9%
25 Psychiatric/Abnormal behavior/Suicide Attempt	4	2.9%
26 Sick Person	27	19.7%
28 Stroke [CVA]	2	1.5%
29 Traffic/Accidents	5	3.6%
30 Traumatic Injuries	7	5.1%
31 Unconscious/Fainting	12	8.8%
32 Unknown Problem	6	4.4%
6 Breathing Problems	15	10.9%
88 Not applicable	2	1.5%
99 Unknown	4	2.9%
<i>Left Blank</i>	0	0.0%
<i>Total</i>	137	100.0%

Transport From (Category)

	<u>#</u>	<u>%</u>
--Left Blank--	137	100.0%
<i>Total</i>	137	100.0%

Transport From (Facility)

	<u>#</u>	<u>%</u>
--Left Blank--	137	100.0%
<i>Total</i>	137	100.0%

Transport To (Destination Facility)

	<u>#</u>	<u>%</u>
St Mary Livonia ER	110	80.3%
UNIVERSITY OF MICHIGAN ER	9	6.6%
St Joe Ann Arbor ER	7	5.1%
Providence Park ER-Novi	7	5.1%
Henry Ford West Bloomfield	1	0.7%
C.S. Mott Children's Hospital	1	0.7%
Beaumont Dearborn	1	0.7%
Beaumont Canton	1	0.7%
<i>Total</i>	137	100.0%

12/8/16

Aging Summary

PLYMOUTH MONTHLY AGING REPORT

Report As Of July 31, 2019

Grouped By Schedule on Call

ID	Description	Calls	Current	31 to 60	61 to 90	91 to 120	121 to 150	151 to 180	Over 180	Total
1CONS1500	PAPER - CONTRACT	1	0.00	0.00	0.00	0.00	0.00	698.00	0.00	698.00
1MRP	PAPER - MEDICARE	2	534.80	568.40	0.00	0.00	0.00	0.00	0.00	1103.20
BCBS	ELECT BCBS	4	2882.00	0.00	0.00	0.00	0.00	0.00	0.00	2882.00
CARE	ELECT - MEDICARE	3	1313.20	0.00	722.00	0.00	0.00	0.00	0.00	2035.20
CAREBL	ELECT MEDICARE P	2	0.00	573.20	0.00	680.00	0.00	0.00	0.00	1253.20
COMP	PAPER WORK COM	1	0.00	0.00	0.00	0.00	0.00	0.00	698.00	698.00
CRED	MHR REFUND CREDI	2	0.00	0.00	0.00	0.00	-746.00	0.00	-269.21	-1015.21
FIREINS	FIRE RECOVERY 15	2	0.00	0.00	450.00	0.00	0.00	0.00	0.00	450.00
INSU	PAPER INS PRIMAR	7	1733.08	0.00	923.00	0.00	0.00	710.00	0.00	3366.08
NEIC	ELECT INS NEIC	2	0.00	722.00	0.00	0.00	722.00	0.00	0.00	1444.00
NEICCAID	ELECT MEDICAID NE	2	874.40	900.80	0.00	0.00	0.00	0.00	0.00	1775.20
PPAR	PAPER BCBS PARTI	1	94.17	0.00	0.00	0.00	0.00	0.00	0.00	94.17
PRV2	PAPER - PRIVATE P	58	13458.18	12052.95	1591.00	101.57	805.00	196.66	0.00	28205.36
REVIEW	REVIEW	16	0.00	1117.40	2623.83	3363.60	0.00	840.56	344.37	8289.76
SINS	PAPER INS SECOND	1	0.00	0.00	0.00	0.00	0.00	0.00	13.41	13.41
TIME	TIME PAY ACCOUNT	3	0.00	0.00	0.00	0.00	841.41	0.00	346.00	1187.41
U	MHR HOLD FOR MH	28	0.00	0.00	0.00	0.00	0.00	0.00	8136.00	8136.00
Totals		135	20889.83	15934.75	6309.83	4145.17	1622.41	2445.22	9268.57	60615.78

Charge Summary

PLYMOUTH MONTHLY CHARGE REPORT

Summary By Charge Code - Code Description

ID	Description	QTY	QTY %	Charge Count	Charge Count	Charges	Total Charge %
0427	ALS EMERGENCY	18	8.22	18	29.51	11440.00	57.57
0429	BLS EMERGENCY	12	5.48	12	19.67	5800.00	29.19
0425MC	CMS MILEAGE	47.1	21.50	7	11.48	565.20	2.84
0425	MILEAGE	141	64.35	23	37.70	1692.00	8.51
MVA	MOTOR VEHICLE ACCIDENT	1	0.46	1	1.64	375.00	1.89
Totals For All		219.1		61		19872.20	

Credit Summary

Summary By Credit As - Code Description

PLYMOUTH MONTHLY CREDIT REPORT

ID	Description	Credits	QTY %	Amount	Amount %
2	Adjustment	43	34.13	4730.95	17.31
1	Other Payment	46	36.51	14054.23	51.43
6	Patient Payment	17	13.49	2173.96	7.96
5	Write Off	20	15.87	6365.19	23.29
Totals For All		126		27324.33	

13 of 16

Incident Summary by Incident Type

For Dates: 7/1/19 - 7/31/19



Incident Type	Incident Count	Average Response Time	Total Loss	Total Value
Shift: A				
Station: MA				
Rescue & Emergency Medical Service Incidents	2	00:06:05	\$ 0.00	\$ 0.00
Total for Station: MA	2	00:06:05	\$ 0.00	\$ 0.00
Station: ST1				
Fires	1	00:06:20	\$ 300.00	\$ 72,500.00
Rescue & Emergency Medical Service Incidents	31	00:05:38	\$ 0.00	\$ 0.00
Hazardous Conditions (No fire)	3	00:07:17	\$ 0.00	\$ 0.00
Good Intent Calls	2	00:00:00	\$ 0.00	\$ 0.00
False Alarm & False Calls	2	00:04:09	\$ 0.00	\$ 0.00
Total for Station: ST1	39	00:05:25	\$ 300.00	\$ 72,500.00
Station: ST2				
Rescue & Emergency Medical Service Incidents	20	00:06:41	\$ 0.00	\$ 0.00
Hazardous Conditions (No fire)	2	00:08:22	\$ 0.00	\$ 0.00
Service Calls	1	00:03:18	\$ 0.00	\$ 0.00
Good Intent Calls	1	00:00:00	\$ 0.00	\$ 0.00
Total for Station: ST2	24	00:06:24	\$ 0.00	\$ 0.00
Station: ST3				
Fires	3	00:05:38	\$ 25,000.00	\$ 312,963.00
Rescue & Emergency Medical Service Incidents	29	00:07:18	\$ 0.00	\$ 0.00
Hazardous Conditions (No fire)	2	00:12:50	\$ 0.00	\$ 0.00
Service Calls	1	00:07:27	\$ 0.00	\$ 0.00
Good Intent Calls	4	00:00:38	\$ 0.00	\$ 0.00
False Alarm & False Calls	1	00:11:34	\$ 0.00	\$ 0.00
Total for Station: ST3	40	00:06:54	\$ 25,000.00	\$ 312,963.00
Total for Shift: A	105.00	00:06:13	\$ 25,300.00	\$ 385,463.00
Shift: B				
Station: ST1				
Rescue & Emergency Medical Service Incidents	25	00:05:01	\$ 0.00	\$ 0.00
Hazardous Conditions (No fire)	3	00:03:09	\$ 0.00	\$ 0.00
Service Calls	3	00:09:11	\$ 0.00	\$ 0.00
Good Intent Calls	3	00:02:10	\$ 0.00	\$ 0.00
False Alarm & False Calls	1	00:04:50	\$ 0.00	\$ 0.00
Special Incident Types	1	00:00:01	\$ 0.00	\$ 0.00
Total for Station: ST1	36	00:04:50	\$ 0.00	\$ 0.00
Station: ST2				
Rescue & Emergency Medical Service Incidents	14	00:07:29	\$ 0.00	\$ 0.00
Hazardous Conditions (No fire)	1	00:02:00	\$ 0.00	\$ 0.00
Service Calls	2	00:04:46	\$ 0.00	\$ 0.00
False Alarm & False Calls	1	00:05:27	\$ 0.00	\$ 0.00

Incident Summary by Incident Type

Incident Type	Incident Count	Average Response Time	Total Loss	Total Value
Total for Station: ST2	18	00:06:46	\$ 0.00	\$ 0.00
Station: ST3				
Fires	1	00:08:05	\$ 0.00	\$ 0.00
Overpressure Rupture, Explosion, Overheat - no fire	1	00:05:15	\$ 0.00	\$ 0.00
Rescue & Emergency Medical Service Incidents	17	00:07:14	\$ 0.00	\$ 0.00
Good Intent Calls	1	00:01:36	\$ 0.00	\$ 0.00
False Alarm & False Calls	4	00:08:23	\$ 0.00	\$ 0.00
Severe Weather & Natural Disasters	1	00:08:08	\$ 4,050.00	\$ 1,500,000.00
Total for Station: ST3	25	00:07:11	\$ 4,050.00	\$ 1,500,000.00
Total for Shift: B	79.00	00:06:01	\$ 4,050.00	\$ 1,500,000.00
Shift: C				
Station: MA				
Fires	1	00:01:41	\$ 0.00	\$ 0.00
Rescue & Emergency Medical Service Incidents	1	00:10:40	\$ 0.00	\$ 0.00
Good Intent Calls	1	00:00:00	\$ 0.00	\$ 0.00
Total for Station: MA	3	00:04:07	\$ 0.00	\$ 0.00
Station: ST1				
Rescue & Emergency Medical Service Incidents	29	00:05:32	\$ 0.00	\$ 0.00
Service Calls	2	00:08:32	\$ 0.00	\$ 0.00
Good Intent Calls	3	00:01:05	\$ 0.00	\$ 0.00
Total for Station: ST1	34	00:05:19	\$ 0.00	\$ 0.00
Station: ST2				
Rescue & Emergency Medical Service Incidents	18	00:06:58	\$ 0.00	\$ 0.00
Hazardous Conditions (No fire)	1	00:05:45	\$ 0.00	\$ 0.00
Service Calls	1	00:07:29	\$ 0.00	\$ 0.00
Good Intent Calls	1	00:00:00	\$ 0.00	\$ 0.00
False Alarm & False Calls	2	00:04:13	\$ 0.00	\$ 0.00
Total for Station: ST2	23	00:06:23	\$ 0.00	\$ 0.00
Station: ST3				
Fires	1	00:07:13	\$ 0.00	\$ 0.00
Rescue & Emergency Medical Service Incidents	31	00:06:29	\$ 0.00	\$ 0.00
Hazardous Conditions (No fire)	3	00:07:24	\$ 0.00	\$ 0.00
Service Calls	1	00:13:50	\$ 0.00	\$ 0.00
Good Intent Calls	1	00:00:00	\$ 0.00	\$ 0.00
False Alarm & False Calls	5	00:05:15	\$ 0.00	\$ 0.00
Total for Station: ST3	42	00:06:26	\$ 0.00	\$ 0.00
Total for Shift: C	102.00	00:05:59	\$ 0.00	\$ 0.00
Total	286.00	00:06:05	\$ 29,350.00	\$ 1,885,463.00

15 of 16

Inspection Volume

8/8/2019 1:50:11 PM

Filters:

- Inspection Source: Internal Department Only
- Start Date: 7/1/2019 12:00:00 AM
- End Date: 7/31/2019 11:59:59 PM
- Inspector: -all-
- Occupancy Type: -all-
- IFC Occupant Class: -all-
- Occupancy Number: -all-
- Zip Code: -all-
- Address: -all-
- Street Name: -all-
- Inspection Type: -all Fire Safety types-
- Section Number: -all-

Volume by Inspector

Conroy, William	# of Inspections ¹	Violations Cited	Occupant Sq. Ft.
Annual ^{FS}	3		7,789
Semi-Annual (twice a year) ^{FS}	4		10,000
2-Year ^{FS}	1		0
Certificate of Occupancy ^{FS}	1		0
Fire Alarm Test ^{FS}	4		256,000
Plan Review ^{FS}	3		50,000
Site Plan ^{FS}	4		0
Total	20	0	323,789

Phillips, Daniel	# of Inspections ¹	Violations Cited	Occupant Sq. Ft.
Freedom of Information ^{FS}	1		25,600
Total	1	0	25,600

Totals

	# of Inspections ¹	Violations Cited	Violations Cleared ²	Violations Remaining	Occupant Sq. Ft.
Annual ^{FS}	3				7,789
Semi-Annual (twice a year) ^{FS}	4				10,000
2-Year ^{FS}	1				0
Certificate of Occupancy ^{FS}	1				0
Fire Alarm Test ^{FS}	4				256,000
Freedom of Information ^{FS}	1				25,600
Plan Review ^{FS}	3				50,000
Site Plan ^{FS}	4				0
Total⁵	21	0	0	0	349,389

¹This is actually a count for the inspection type. A single inspection with two types will total as two not one.

²Cleared violations from re-inspections outside the date range ARE included if initial inspection falls within date range.

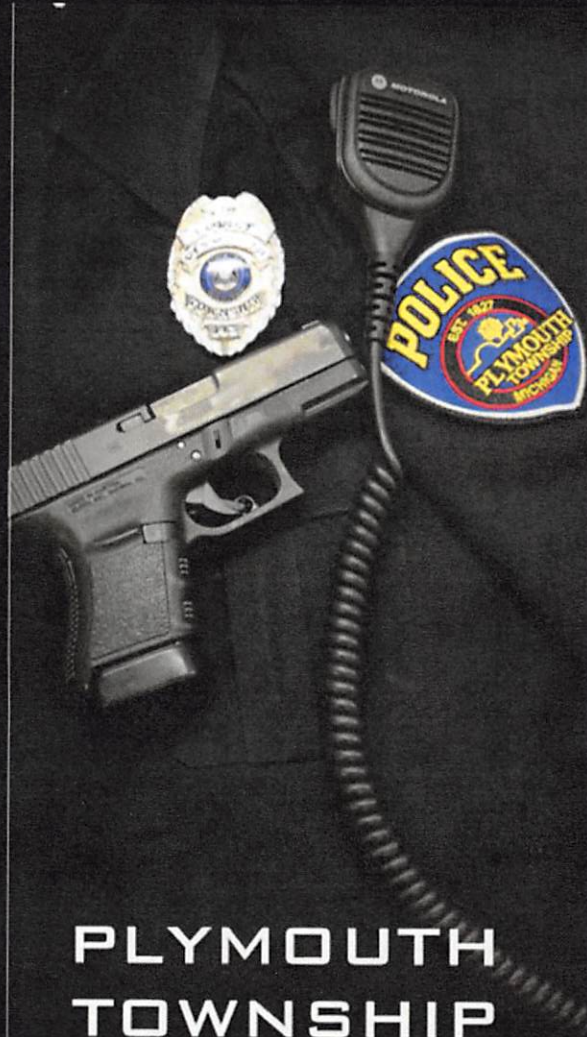
³One re-inspection can encompass multiple inspection types - this is why the re-inspection type-specific total is frequently greater than the # of inspections.

^{FS}Fire Safety Inspection.

**CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019**

CONSENT AGENDA

**ITEM D.2
POLICE DEPARTMENT
MONTHLY REPORT
JULY, 2019**



PLYMOUTH
TOWNSHIP
POLICE

WWW.PLYMOUTHWP.ORG

2019 MONTHLY REPORTS

JULY



PART-ONE CRIMES



January 1, 2019 through December 31, 2019													
2019	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD TOTAL
Murder	0	0	0	0	0	0	0						0
CSC	0	0	0	1	0	0	1						2
Robbery	0	0	0	0	0	0	0						0
Aggravated Assault	0	3	1	1	1	0	1						7
Burglary	2	1	0	2	0	1	5						11
Larceny	18	9	16	8	11	9	9						80
Auto Theft	1	2	3	1	0	1	1						9
Arson	0	0	0	0	0	0	1						1
Retail Fraud	1	2	0	1	0	0	0						4
Total	22	17	20	14	12	11	18	0	0	0	0	0	114
CALLS FOR SERVICE													
2019	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD TOTAL
Part A Crimes	39	38	53	38	35	39	44						286
All Other Crimes	101	90	86	91	97	89	88						642
Total	140	128	139	129	132	128	132	0	0	0	0	0	928

January 1, 2018 through December 31, 2018													
2018	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD TOTAL
Murder	0	0	0	0	0	0	0	0	0	0	0	0	0
CSC	1	1	0	0	1	0	1	0	4	1	1	0	10
Robbery	0	0	1	0	1	0	0	0	0	0	0	0	2
Aggravated Assault	0	0	3	0	1	0	1	2	2	3	2	0	14
Burglary	1	0	1	0	1	5	2	1	1	2	1	3	18
Larceny	7	5	1	9	22	13	14	14	9	15	9	6	124
Auto Theft	1	1	0	1	0	3	0	2	0	3	1	2	14
Arson	0	0	0	0	0	0	0	0	0	0	0	0	0
Retail Fraud	1	0	2	0	1	0	2	1	1	0	3	2	13
Total	11	7	8	10	27	21	20	20	17	24	17	13	195
CALLS FOR SERVICE													
2018	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD TOTAL
Part A Crimes	47	40	35	33	53	50	48	48	42	53	38	39	526
All Other Crimes	97	78	99	45	105	108	95	117	111	88	98	95	1136
Total	144	118	134	78	158	158	143	165	153	141	136	134	1,662

2019 DISPATCH	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD
# of 911 Calls	1,266	1,121	1,365	1,134	1,207	1,349	1,405	0	0	0	0	0	8,847
# of Non-Emergency Calls	2,602	2,381	2,319	2,262	2,852	2,732	2,743	0	0	0	0	0	17,891
Total	3,868	3,502	3,684	3,396	4,059	4,081	4,148	0	0	0	0	0	26,738

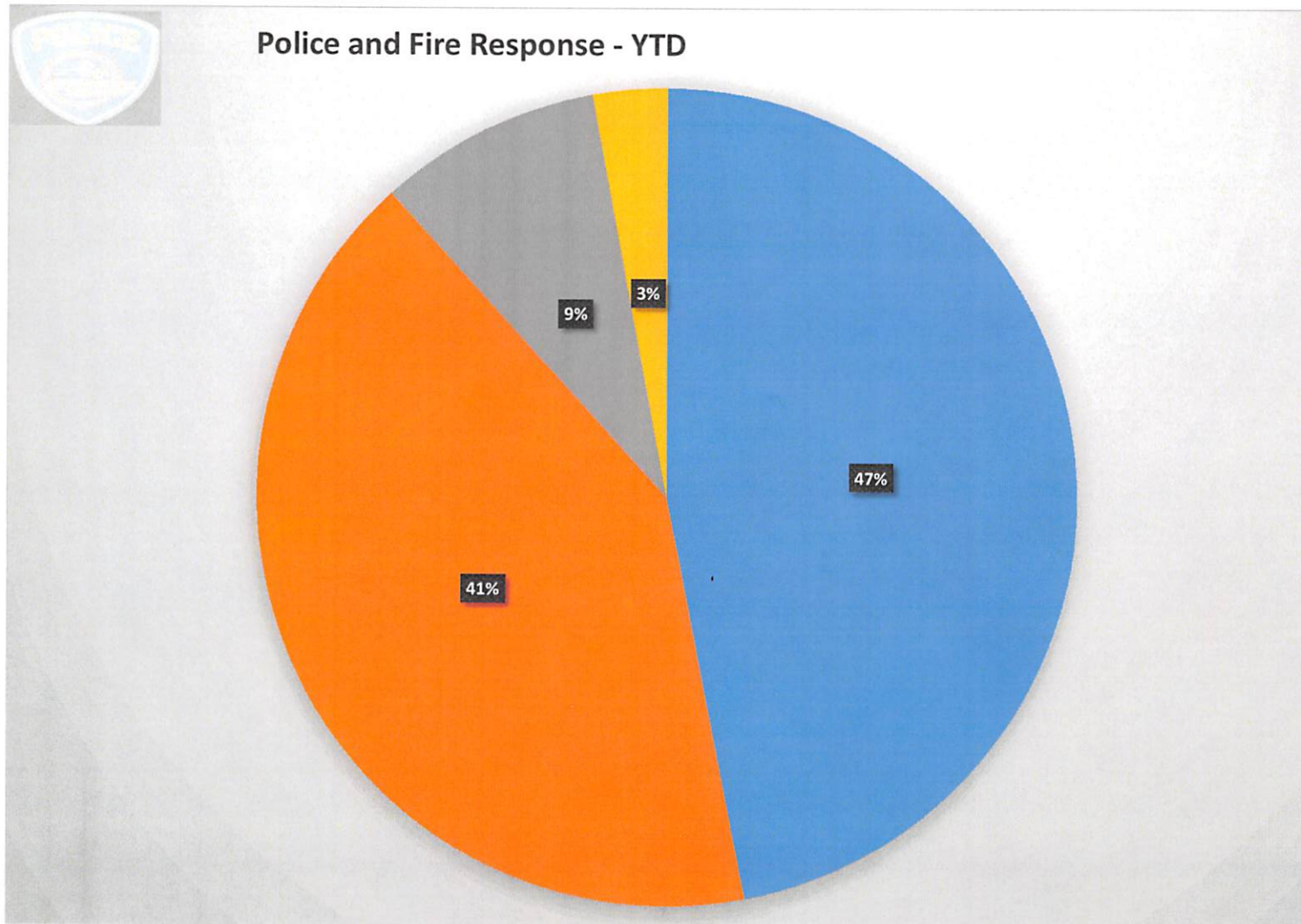
POLICE AND FIRE RESPONSE

2019	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD
City Police	1,497	1,322	1,146	1,338	1,445	1,468	1,337	0	0	0	0	0	9,553
Township Police	1,255	1,025	1,410	1,085	1,244	1,190	1,209	0	0	0	0	0	8,418
Township Fire	282	240	234	243	239	263	287	0	0	0	0	0	1,788
City Fire	108	86	73	84	81	86	81	0	0	0	0	0	599
Total	3,142	2,673	2,863	2,750	3,009	3,007	2,914	0	0	0	0	0	20,358

2018 DISPATCH	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD
# of 911 Calls	1,177	1,028	1,124	1,169	1,243	1,329	1,400	1,284					
# of Non-Emergency Calls	2,696	2,571	2,637	2,487	2,816	2,705	2,883	2,692	2,576	2,576	2,296	2,467	
Total	3,873	3,599	3,761	3,656	4,059	4,034	4,283	3,976	2,576	2,576	2,296	2,467	0

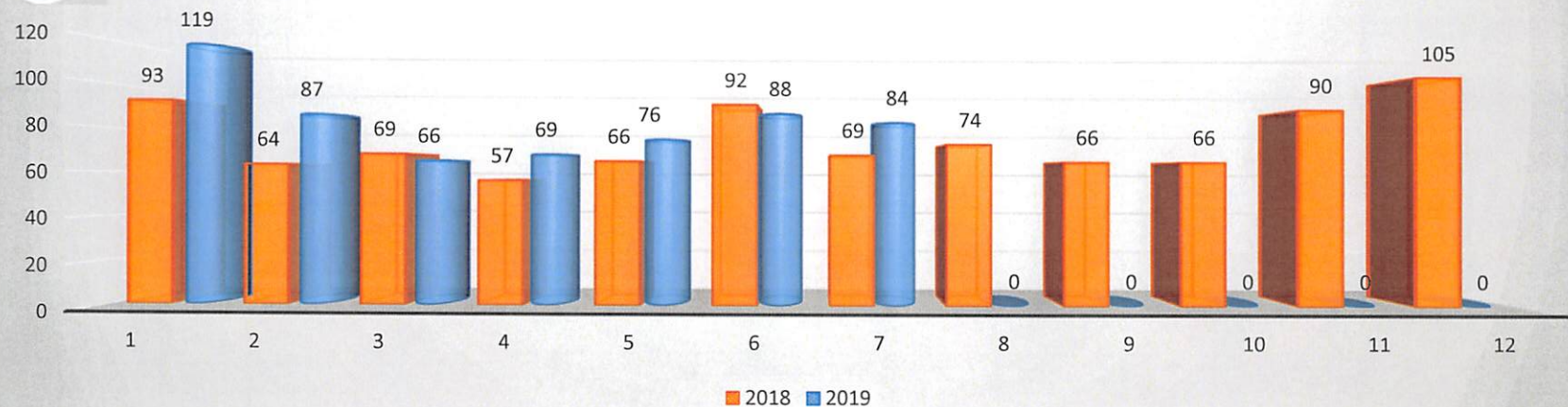
POLICE AND FIRE RESPONSE

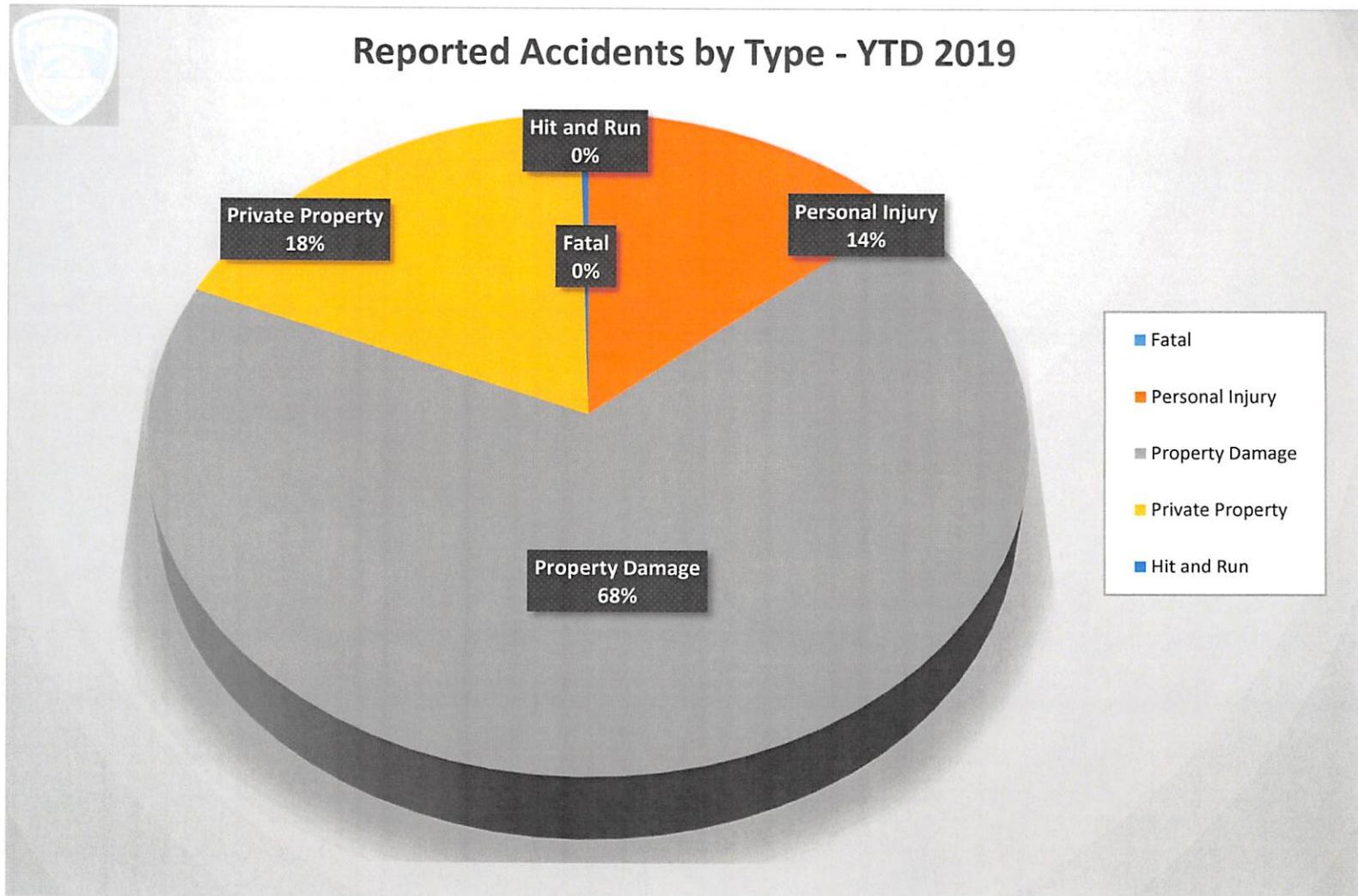
2018	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD
City Police	1,500	1,231	1,408	1,226	1,483	1,350	1,401	1,321	1,400	1,448	1,370	1,335	16,473
Township Police	1,248	976	1,218	1,107	1,333	1,331	1,285	1,346	1,245	1,179	1,149	1,163	14,580
Township Fire	273	232	262	227	249	2,240	269	239	275	271	220	233	2,974
City Fire	77	81	78	74	86	70	98	80	87	89	69	82	971
Total	3,098	2,520	2,966	2,634	3,151	4,991	3,053	2,986	3,007	2,987	2,808	2,813	34,998



TRAFFIC ACCIDENT SUMMARY													
2019	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD
Fatal	0	0	0	0	0	0	0	0	0	0	0	0	0
Personal Injury	14	5	10	11	13	14	14	0	0	0	0	0	81
Property Damage	92	63	47	41	47	59	49	0	0	0	0	0	398
Private Property	13	19	9	17	16	13	21	0	0	0	0	0	108
Hit and Run	0	0	0	0	0	2	0	0	0	0	0	0	2
Total	119	87	66	69	76	88	84	0	0	0	0	0	589
2018	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD
Fatal	0	0	0	0	0	0	0	0	0	0	0	0	0
Personal Injury	12	9	7	13	3	8	14	7	9	9	15	14	120
Property Damage	68	44	49	34	47	61	40	47	49	43	63	85	630
Private Property	13	11	13	10	16	22	15	20	8	14	12	6	160
Hit and Run	0	0	0	0	0	1	0	0	0	0	0	0	1
Total	93	64	69	57	66	92	69	74	66	66	90	105	911

Traffic Accidents 2018 vs 2019





TRAFFIC VIOLATION SUMMARY

January 1, 2019 through December 31, 2019													
2019	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD TOTAL
OWI	5	1	10	7	7	2	2	0	0	0	0	0	34
Speed	41	40	53	77	79	50	74	0	0	0	0	0	414
Commercial	8	0	1	0	2	1	0	0	0	0	0	0	12
Traffic Stops	509	384	474	455	454	404	429	0	0	0	0	0	3,109

Number of Arrests

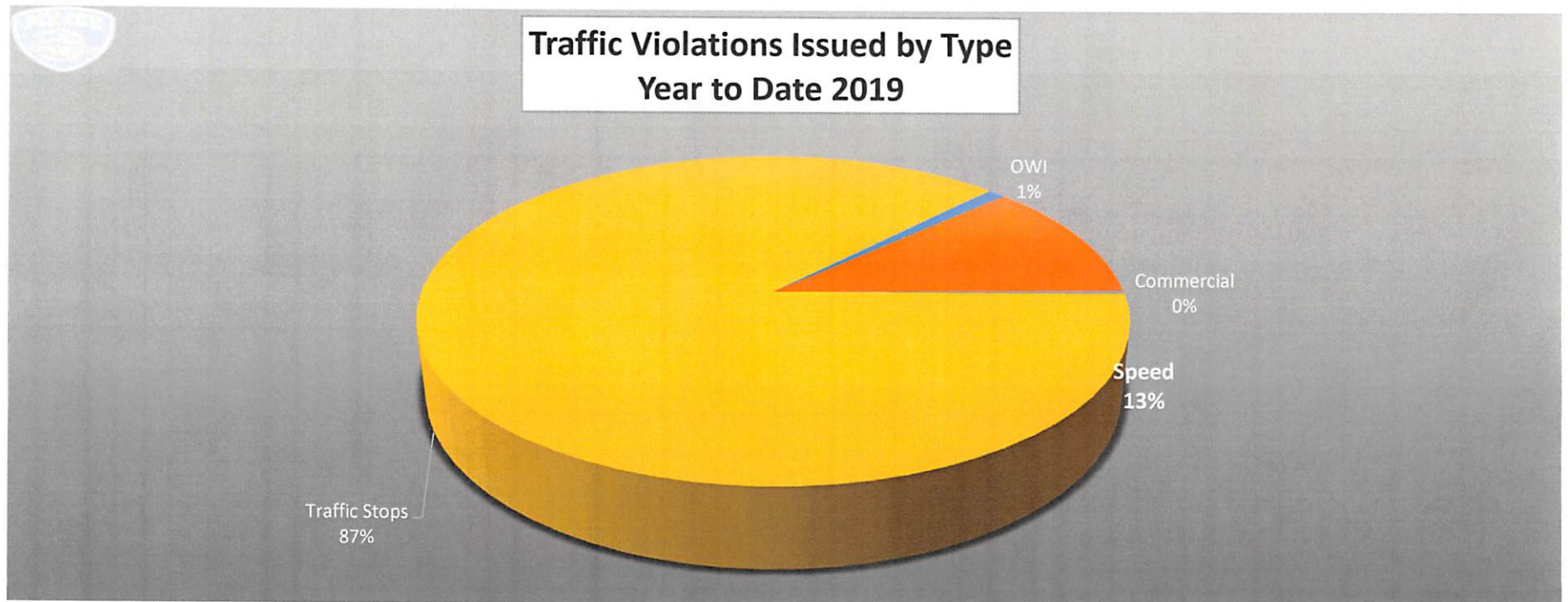
2019	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD TOTAL
Felony	14	5	9	3	4	10	10	0	0	0	0	0	55
Misdemeanor	65	42	64	54	48	48	59	0	0	0	0	0	380
Citations	262	192	237	221	230	193	194	0	0	0	0	0	1,529
Total	341	239	310	278	282	251	263	0	0	0	0	0	1,964

January 1, 2018 through December 31, 2018

2018	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD TOTAL
OWI	4	5	3	1	4	2	4	7	3	2	7	4	46
Speed	31	18	40	45	83	114	82	102	75	91	49	66	796
Commercial	3	1	0	0	5	5	14	0	6	1	3	5	43
Traffic Stops	430	276	432	392	521	578	529	622	550	474	482	467	5,753

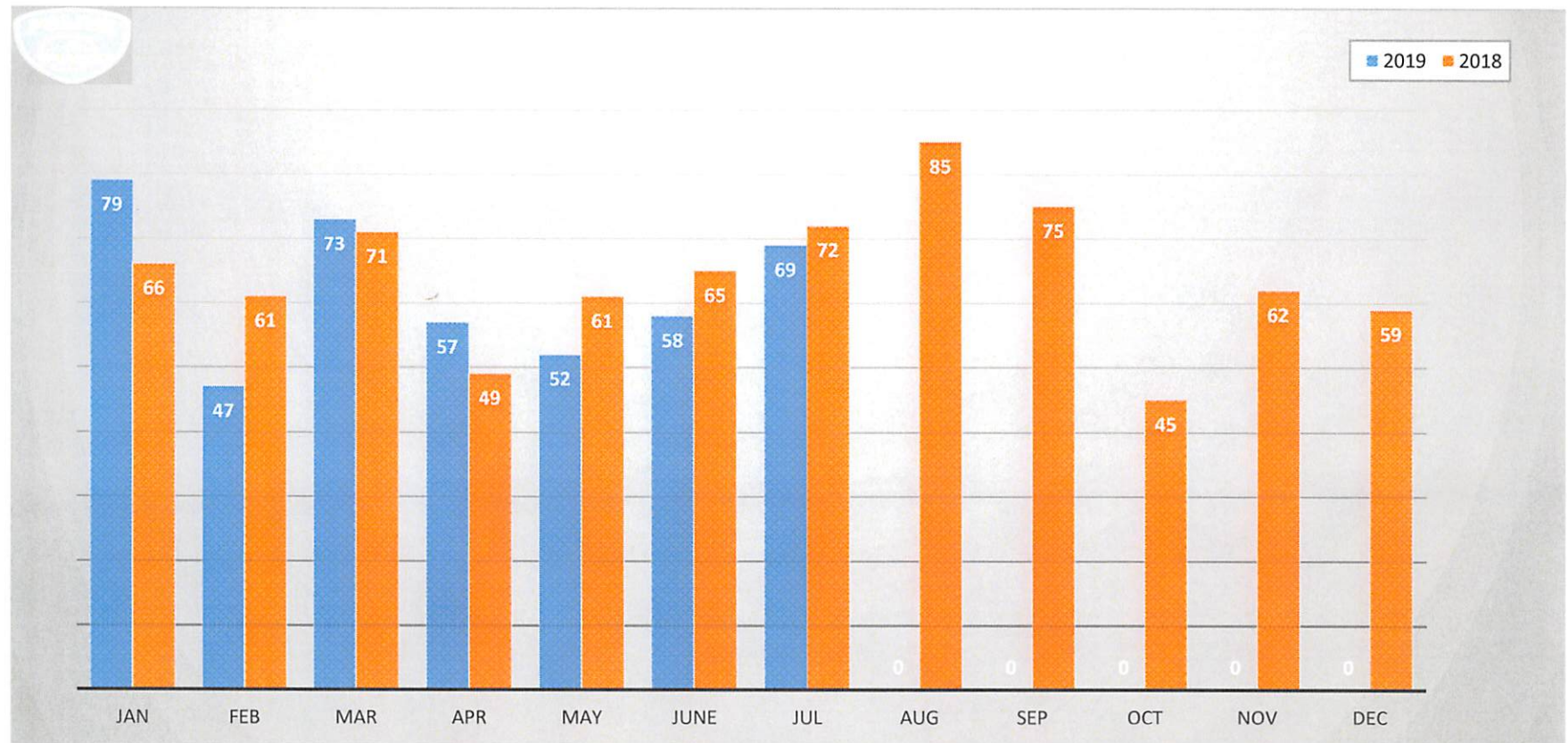
Number of Arrests

2018	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD TOTAL
Felony	9	8	7	5	7	11	10	12	5	7	11	12	104
Misdemeanor	57	53	64	44	54	54	62	73	70	38	51	47	667
Citations	230	139	236	192	248	317	241	283	277	213	233	258	2,867
Total	296	200	307	241	309	382	313	368	352	258	295	317	3,638



NUMBER OF ARRESTS

Column1	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	YTD TOTAL
2019	79	47	73	57	52	58	69	0	0	0	0	0	435
2018	66	61	71	49	61	65	72	85	75	45	62	59	771



**CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019**

CONSENT AGENDA

**ITEM D.2
PLANNING DEPARTMENT
MONTHLY REPORT
JULY, 2019**


MCKENNA

Memorandum

TO: Board of Trustees; and
Planning Commission;
Charter Township of Plymouth, Michigan

FROM: Laura E. Haw, AICP, NCI, Senior Principal Planner
Natalie Bond, Assistant Planner

SUBJECT: Planning and Zoning Services Monthly Report – July, 2019

DATE: August 6, 2019

PLANNING AND ZONING

McKenna provides day-to-day assistance to the Township, applicants, and public regarding zoning, planning and economic development matters, including on-site office hours every morning and on an as-needed basis. The following is McKenna's monthly report to the Township, which covers Planning and Zoning activities and services:

Zoning and Planning Activity

As part of our services to the Township, McKenna reviews Planning Commission applications and plans and provides recommendations on long range planning, land use, zoning and design. There are also a number of administrative site plans / projects that McKenna reviews and administers. The following is a summary of current and ongoing site plans, special land uses, rezonings, text amendments and land reconfigurations.

Planning and Zoning Activity	
PROJECT	CURRENT STATUS (updates for the month are shown in <u>underlined text</u>)
#2138 49600 Ann Arbor Rd. <i>Andover Forest</i>	Final Stamp process initiated in 2015. <u>Final Stamp in progress, pending Township receipt of recorded legal documents.</u>
#2245 (b) 15257 Beck Rd. <i>Plymouth Plaza</i>	<u>Revised plans #3 submitted for Township review under "2245 (b)". Planning Commission approval, with conditions, was granted at the July 17, 2019 meeting. Final Stamp in progress, pending applicant revisions.</u>
#2271 39550 Ann Arbor Rd. <i>Quick Pass Car Wash</i>	Planning Commission granted revised, final site plan approval, with conditions, at the February 20, 2019 meeting. <u>Applicant submitted for Final Stamp; review pending with engineering.</u>
#2272 45980 Ann Arbor Rd. <i>The Woods</i>	<u>Final Stamp in progress, pending Township receipt of recorded legal documents.</u>

HEADQUARTERS
235 East Main Street
Suite 105
Northville, Michigan 48167

○ 248.596.0920
F 248.596.0930
MCKA.COM

Communities for real life.



Planning and Zoning Activity

PROJECT	CURRENT STATUS (updates for the month are shown in <u>underlined text</u>)
#2296 12731 Beck Rd. <i>Verona Park</i>	<u>Applicant submitted for Final Stamp, awaiting final legal documents.</u>
#2300 46333 Five Mile Rd. <i>Progressive</i>	Minor administrative site plan request for additional parking at Progressive Insurance, as approved per the 1980's plan as banked parking. Pending Wayne County authorization. New materials or a one year extension request must be submitted by July 27, 2019 or the file will be closed. <u>File closed.</u>
#2303 41100 Plymouth Rd. <i>Burroughs</i>	Administrative site plan (major) improvements for lighting, landscaping and pedestrian safety. Phase 1 (lighting, landscaping and sidewalk with parking lot improvements) approved. <u>Revised plans for Phase 2 site work submitted; review conducted; awaiting revised plans for Township review and all outside agency approvals.</u>
#2306 41661 Plymouth Rd. <i>Hillside Residences</i>	On November 14, 2018 the Planning Commission granted tentative site plan for 88 residential units and a revised development plan was recommended to the Board of Trustees on January 16, 2019. Pending Township Attorney review, Wayne County permits, and engineering review and all outstanding items and conditions of approval must be addressed, prior to further consideration.
#2312 <i>Ponds at Andover</i>	Application for seven (7) single-family detached units on 11 acres submitted to the Township. <u>A meeting with the applicant's team was requested to review general site layout, utilities, etc. prior to tentative site plan (CHO) consideration by the Planning Commission at a future date.</u>
#2313 <i>Ridge 5 Corporate Park</i>	Application for a new Business Park; tentative site plan approval granted by the Planning Commission on December 12, 2018. Final site plan was approved at the June 19, 2019 Planning Commission meeting, with conditions. <u>Final Stamp process pending.</u>
#2314 15100 Fogg St.	Tentative site plan approval for new industrial building granted by the Planning Commission on December 12, 2018. <u>New materials or a one year extension request must be submitted by November 12, 2019 or the file will be closed.</u>
#2317 <i>Powell Rd. - Vacant</i>	Cluster Housing Option (CHO) request for parcel #: R-78-046-99-0002-72. Public hearing held at the January 16, 2019 Planning Commission meeting; the Commission postponed the agenda item for up to 12 months. <u>Applicant to submit revised plans by December, 2019 or the file will be closed.</u>
#2320 <i>Innotech Business Park</i>	Final site plan approval, with conditions, granted by the Planning Commission for the Innotech Business Park on April 17, 2019 for infrastructure and utilities only. <u>Applicant to submit for Final Stamp, pending all engineering permits and approvals.</u>
#2323 41185 Wilcox Rd.	Class A, non-conforming designation granted for a single family residence in the R-2-A Multiple Family Residential district on February 20, 2019. <u>Applicant to submit for Final Stamp.</u>
#2325 40880 Ann Arbor Rd. <i>Burger King</i>	Façade and minor site improvements to the existing Burger King approved for tentative site plan by the Planning Commission on March 20, 2019. <u>Applicant to submit for final site plan consideration.</u>
#2330 <i>Webasto</i>	Tentative and final site plan approval granted on April 17, 2019 by the Planning Commission. <u>Final Stamp issued. File closed.</u>
#2332 <i>Boleski Funeral Home</i>	Applicant withdrawn from the April 17, 2019 Planning Commission agenda. <u>Applicant to re-submit additional plans at a future date.</u>



Planning and Zoning Activity

PROJECT	CURRENT STATUS (updates for the month are shown in <u>underlined text</u>)
#2336 40601 Ann Arbor Rd. Hines Park Lincoln	Administrative application for a minor building addition and landscape improvements at the existing Hine Park Lincoln Dealership on Ann Arbor Road. <u>Final Stamp issued, file closed.</u>
#2338 14973 Northville Rd. Phoenix Mill	Brownfield Plan submitted for environmental clean-up and redevelopment assistance at the former Phoenix Mill site. <u>Public hearing and consideration held at the June 10, 2019 Brownfield Redevelopment Authority meeting; recommendation for approval made by the BRA to the Board of Trustees for the August 27, 2019 meeting.</u>
#2339 9315 Ball St.	<u>Single-family residential land division request for two lots in the Green Meadows subdivision, approval issued by Supervisor Heise, filed closed.</u>
#2340 43939 Plymouth Oaks Blvd.	<u>Administrative review for a parking lot expansion at the existing Ilmore Engineering facility.</u>
#2341 9445 Brookline	<u>Single family land division; administrative review in progress.</u>

FINANCIAL ACTIVITY

The following table details payments received by applicants as determined by the adopted Fee Schedule:

Planning and Zoning Fees Received	Current	2019 YTD
Applications (July only)	\$6,056.50	\$48,663.30
#2245: Additional Planning Reviews	\$1,856.50	-
#2280: Landscape Inspection and Report	\$700.00	-
#2340: Administrative Review (major)	\$3,100.00	-
#2341: Land Division Review #1	\$400.00	-



RECOMMENDATIONS AND NEXT MONTH OUTLOOK

- The Downtown Development Authority Plan Update consideration and public hearing was held on June 10, 2019, incorporating Planning Commission comments made during the May 15, 2019 meeting. Board of Trustees consideration of the DDA Development and TIF Plan was then held on July 9, 2019 and subsequently approved.
- The Brownfield Redevelopment Authority public hearing and consideration of the Phoenix Mill Brownfield Plan was held June 10, 2019. Board of Trustees consideration of the Brownfield Plan is scheduled for the August 27, 2019 meeting.
- Create long-range plan for the planting of 151 trees in public land of the Township, (the trees are a result of the Webasto site plan “payment in-lieu” approval).
- In partnership with Gary Roberts, Jennifer Frey and David Schreiber, a \$100,000 grant application was developed, finalized and submitted to MEDC for their Site Readiness Site Improvement program for MITC. Communities will be notified of the grant award by the end of summer, 2019 (deadline extended by the State due to the volume of applications received).
- New information and materials to be posted to the Township’s website for public benefit and increased awareness of planning and zoning processes / projects, including an FAQ section.
- Planning Commission member orientation was held on July 12, 2019 for Bob Ostendorf.
- Review of parking standards, Article 24 of the Zoning Ordinance, to begin.
- Presentation at the July 16, 2019 City Planner Panel at PARC, in conjunction with Farmington, Canton, the City of Plymouth, and Northville Township regarding new developments and planning projects in the Township.

If you have any questions on the above planning, zoning and design projects or would like additional information, please contact Laura Haw at Lhaw@mcka.com. Thank you.

**CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019**

CONSENT AGENDA

**ITEM D.2
FOIA MONTHLY REPORT -
CLERK'S OFFICE
JULY, 2019**

FOIA Monthly Report

Run Date: 08/01/2019 8:01 AM

Create Date	Company Name	Customer Full Name	Type of Information Requested	Amount of Payment
7/1/2019		Paul Mackiewicz	Public Services-Works	
7/1/2019	BuildZoom	Janine Rugas	Building	\$10.00
7/2/2019		Sarah Nolan	Fire Report	
7/1/2019	Vandever Garzia, P.C.	David Timmis	EMS Report	
7/12/2019	Arch Environmental	Nicholas Marcelletti	Environmental	
7/16/2019		John Janevski	Fire Report	
7/18/2019	McDowell & Associates	Mark Kochanski	Environmental	
7/19/2019	Plymouth Township Fire Department	Guy Villet	Other	
7/22/2019	Hohauser Kuchon	Terri Inskeep	EMS Report	
7/24/2019	Applied Environmental	Kyle Meyer	Environmental	
7/26/2019	LocalLabs	Hilary Towbin	Assessing Records	
7/29/2019		Mrs Nicole Gandolfo	Other	
7/26/2019		Gary Heitman	Election Records	
7/31/2019	PM Environmental	Research Consultant Devon Nagengast	Assessing Records Building Fire Report Public Services-Works	
7/31/2019	PM Environmental	Research Consultant Devon Nagengast	Assessing Records Building Fire Report Public Services-Works	

Total Requests: 15

Total Dollars: 10

**CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019**

CONSENT AGENDA

**ITEM D.2
FOIA MONTHLY REPORT -
POLICE DEPARTMENT
JULY, 2019**

PD FOIA Monthly Report

Run Date: 08/01/2019 8:01 AM

Create Date	Company Name	Customer Full Name	Type of Information Requested	Amount of Payment	
7/1/2019	Aldrich Legal Services	Brad Aldrich	Police Records	13.35	
7/1/2019		Jason Parko	Police Records	0.00	
7/1/2019		Philip Chan	Police Records	0.00	
7/2/2019		Lisa Bastian	Police Records	0.00	
7/3/2019		Johnathan Drake	Police Records	0.00	
7/3/2019		Sarah Nolan	Police Records	165.28	
7/8/2019		Don Strand	Police Records	0.00	
7/8/2019		Ms. Courtney Graichen	Police Records		
7/11/2019		Gabriele Stauss	Police Records	0.00	
7/11/2019		Taylor Ramanauskas	Police Records	0.00	
7/15/2019		Deanna Pikula	Police Records	0.00	
7/15/2019		Lenny Rodriguez	Police Records	2.00	
7/16/2019		Metropolitan Reporting Bureau	Metropolitan Reporting Bureau	Police Records	0.00
7/16/2019		Metropolitan Reporting Bureau	Metropolitan Reporting Bureau	Police Records	0.00
7/16/2019			Farm Bureau Insurance	Police Records	0.00
7/16/2019		Gregory Boulahanis	Police Records	37.89	
7/16/2019		Armin Halilovic	Police Records	18.00	
7/17/2019	LexisNexis	LexisNexis	Police Records	0.00	
7/17/2019		Amanda Brennan	Police Records	4.70	
7/22/2019	Mi Army National Guard	Branden Williams	Police Records	0.00	
7/22/2019		James Simon	Police Records	13.66	
7/22/2019	Camilla Barkovic AAL	Camilla Barkovic	Police Records		
7/23/2019	New Light Child and Family Institute	Kirsten Thornton	Police Records	0.00	
7/23/2019		Ensearch Express	Police Records	0.00	
7/23/2019	Oak Haven	Cara Czarnota	Police Records	0.00	
7/23/2019		Tabitha Sudbeck	Police Records	2.30	
7/30/2019		Alexis Swickard	Police Records	1.90	
7/31/2019		Jon Rigoni	Police Records	2.20	
7/31/2019		Ray Ajluni	Police Records	0.00	
7/31/2019		Nicholas Claeys	Police Records	1.90	
7/31/2019		Jeffrey Sudbeck	Police Records	2.90	
7/31/2019		Nneka Udegbumam	Police Records	0.00	
Total Requests: 32				Total Dollars: 266.08	

**CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019**

CONSENT AGENDA

**ITEM D.2
ELECTION COMMISSIONERS
REPORT**

To: Board of Trustees

From: Jack Dempsey, Gary Heitman

Cc: Sandy Groth

Re: Elections and the Election Commission

Date: August 20, 2019

The purpose of this Memorandum is to acquaint you with our experience on this Commission as regarding matters involved in forthcoming elections, including the type of proposal embodied in Resolution #2019-7-23-73 included in the packet for the July 23, 2019, meeting. You'll recall that the matter involving the resolution was withdrawn from the agenda at that meeting.

Background

On April 24, 2018, we both were appointed by the Board of Trustees to the Plymouth Township Election Commission for terms expiring on November 20, 2020. Per Michigan law, the Commission consists of the Township Clerk and two trustees appointed by the Township Board. The Commission is primarily responsible for the oversight of the statutory election duties mandated for the Clerk to perform by State law. Those responsibilities are set forth on the attached document presented to the Board on April 24.

The Election Commission held its first public meeting on July 16, 2018, then held its second public meeting on October 16, 2018. Commissioners were present during sessions at Township Hall for public accuracy testing of elections equipment on July 25 (for the August 7 primary) and October 25, 2018 (for the November general election).

At the November 13, 2018, Board of Trustees meeting, as approved minutes reflect, "Clerk Vorva spoke about the November 6 General election. He noted that it was one of the largest turnouts for a gubernatorial election. The township received more requests for absentee ballots than in the 2016 presidential election. There was a 97% rate of return for absentee ballots. On December 4 a public post-election commission meeting will take place."

The Election Commission did hold a public meeting on December 12, 2018, and again on January 16, 2019, to hear comments from workers and the public, and assessments from the Clerk and Deputy Clerk, on issues associated with the November 6 general election, and to discuss potential changes in procedures for upcoming elections. The voting technology firm was invited to attend and report from their perspective, which did occur.

All of the Commission's meetings were held in accordance with the Open Meetings Act. There was significant attendance from the public and from election workers.

Plymouth Township has 12 precincts located throughout the jurisdiction. We understand the number of precincts in a voting jurisdiction is controlled by State law requirements.

August 7, 2018 Primary

The primary election proceeded without any serious issues, according to the record of the public meetings and our personal knowledge.

November 6, 2018, General Election

Significant issues arose in conjunction with the general election.

That election was characterized throughout Michigan, and in the Township, by high voter turnout.

Delayed results from Plymouth Township were finally reported at 3:00 p.m. on Wednesday, November 7. This delay was primarily caused by issues with technology; the Clerk was reported as discussing this in various media reports. Equipment problems with a new type of tabulation machine, placed in service for the first time in this election, plagued the counting of the almost 6,500 absentee ballots. Slow speeds and paper jams complicated tabulations. The election equipment company delivered a new high speed counter early Wednesday morning that was able to process 50 ballots per minute as opposed to 180 per hour.

Per State law requirements applicable to the 2018 elections, Wayne County made the decision to go ahead with the purchase of Dominion Voting Systems equipment and technology which included Election Administration modules. Plymouth Township did not have the ability to make its own choice.

Specific issues included:

- Tabulators shutting down and not displaying information
- Tabulators in the absentee voter counting board not working due to, for example, inability to consistently and accurately read folded ballots
- Tabulators that worked very slowly (tabulating 3 per minute compared to the promised 12 per minute)
- Disabled voting machines
- New procedures for poll books
- Election workers trying to be helpful to voters by feeding in ballots for them, resulting in delay and errors

The technology issues resulted in some absentee vote workers being on the job for some 24 hours. Some left the job before the final results were tabulated.

Since November 7, Wayne County has been working with Dominion and the clerk's offices around the county to alleviate the possibility of a recurrence of the general election technology issues.

Additional problems were also experienced, primarily associated with human error. These included:

- mistakenly switching ballots between two precincts during pre-opening delivery; this error was not detected until after voters had attempted to vote and their ballots were rejected for being in the wrong precinct
- accessibility issues at certain polling places where assistance in opening the precinct did not occur in a timely fashion as promised
- poll workers failing to contact the Clerk's office with questions about procedures
- poll leaders/workers doing things "the way they always have done them" resulting in upset voters and disgruntled co-workers. This was primarily in the areas of letting unauthorized people in the polling areas; small numbers of secrecy areas to vote (this was corrected later in the day); and congestion in the voting areas.

Election Law Changes

The November 2018 general election resulted in approval of statewide Proposal 3. This ballot measure significantly changed the State's election law, expanding voter registration and making it easier on the part of the individual to vote absentee. Specifically, Proposal 3 amended the Michigan Constitution to include rights to the following:

- A secret ballot
- Timely distribution of absentee ballots to military personnel or those living overseas
- Straight-party voting
- Automatic registration
- Registration by mail up to 15 days before an election
- In-person registration extended to Election Day with proof of residency
- No-reason absentee voting
- Statewide audit of election results

A recent news article about the August 6, 2019, primary in Livonia reported that 6,555 voters went to polling places that day to cast their vote in person, while 8,725 voters submitted absentee ballots. It also reported an increase in overall voting of approximately 50% from the August 2015 primary (around 10,000 ballots cast).

Conclusion

We offer this memo to our fellow Trustees as background information in connection with any proposals that might be brought forward regarding Election-related matters between this date and the November 2020 general election.

We emphasize that voting is a constitutional right under both federal and state law, and Township government needs to uphold that right and facilitate voting by registered voters. Equally so, ineligible voters should not be permitted to cast ballots.

###

**CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019**

CONSENT AGENDA

**ITEM D.3
APPROVAL OF TOWNSHIP BILLS**

BOARD DATE

8/27/2019

FUND NAME	FUND NUMBER	TOTAL INC PAYROLL	PAYROLL & INVOICES PAID PRIOR TO MEETING	INVOICES PAID AFTER BOARD REVIEW
GENERAL FUND	101	1,256,333.40	1,162,491.13	93,842.27
SWD	226	111,397.08	7,965.59	103,431.49
IMPROV. REV.	246	-	-	
DRUG FORFEITURE	265	-	-	
DRUG FORFEITURE	266	-	-	
DRUG FORFEITURE	267	472.05	472.05	
GOLF COURSE FUND	510	-	-	
SENIOR TRANSPORTATION	588	12,722.99	11,174.19	1,548.80
WATER & SEWER	592	686,291.80	657,795.69	28,496.11
TRUST& AGENCY	701	62,580.29	62,580.29	
POLICE BOND FUND	702	13,306.00	13,306.00	
TAX POOL	703	10,727.22	10,727.22	
SPECIAL ASSESS CAPITAL	805	3,213.01	3,213.01	
	TOTAL	<u>2,157,043.84</u>	<u>1,929,725.17</u>	<u>227,318.67</u>

GRAND TOTAL

2,157,043.84

Charter Township of Plymouth

AP Invoice Listing - Board Report

Bonds Page 921117/

VENDOR INFORMATION

INVOICE INFORMATION

35TH DISTRICT COURT		Invoice Amount:		\$50.00
BOND RECEIPT 08/13/2019		Check Date:		08/23/2019
	702-100-087.000	BOND RECEIPT 008092		50.00
35TH DISTRICT COURT		Invoice Amount:		\$1,310.00
BOND RECEIPT 08/12/2019		Check Date:		08/23/2019
	702-100-087.000	8088		260.00
	702-100-087.000	8089		350.00
	702-100-087.000	8090		200.00
	702-100-087.000	8091		500.00
35TH DISTRICT COURT		Invoice Amount:		\$300.00
BOND RECEIPT 08/16/2019		Check Date:		08/23/2019
	702-100-087.000	8093		300.00
Total Amount to be Disbursed:				\$1,660.00

Charter Township of Plymouth
AP Invoice Listing - Board Report

Returns 8/21/17

VENDOR INFORMATION

INVOICE INFORMATION

SIMPLIFILE, LC

Invoice Amount: \$126.00

BD Bond Refund

Check Date: 08/20/2019

701-100-202.701 BE18-0005

126.00

Total Amount to be Disbursed: \$126.00

67 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

Weekly 8/21/19

VENDOR INFORMATION

INVOICE INFORMATION

ALERUS FINANCIAL		Invoice Amount:	\$5,299.27
Defined Contribution - PAYDATE August 16, 2019		Check Date:	08/21/2019
101-325-714.050	Define Contribution -Dispatch (Employer)		1,388.40
101-100-231.000	Employee Cont -all		1,362.32
101-305-714.030	Define Contribution-Police (ER)		2,548.55
A T & T		Invoice Amount:	\$966.94
AT&T - Telephone August 2019 Acct. 831-0		Check Date:	08/21/2019
101-325-853.400	August 2019 Comm/Lockup Phone		966.94
ADP INC		Invoice Amount:	\$3,938.97
ADP EnterpriseTime & Workforce Now & Payroll S		Check Date:	08/21/2019
101-290-941.000	Enterprise eTime		2,360.95
101-290-941.000	Workforce Now		682.50
101-290-941.000	Payroll Services		895.52
BASIC		Invoice Amount:	\$60.00
Monthly Fee for COBRA Administration (per Perso		Check Date:	08/21/2019
101-290-818.000	Mthly Fee for COBRA (per person)		60.00
BLUE CARE NETWORK OF MICHIGAN		Invoice Amount:	\$10,278.06
#00158010-003 -Inv. # 192219918322 - 09/2019		Check Date:	08/21/2019
101-290-714.500	General Retirees Healthcare		4,379.10
101-305-714.500	Police Retirees Healthcare		583.88
101-325-714.500	Dispatch Retirees Healthcare		583.88
101-336-714.500	Fire Retirees Healthcare		3,563.44
592-291-714.500	Public Works Retirees Healthcare		1,167.76
BLUE CROSS/BLUE SHIELD OF MICHIGAN		Invoice Amount:	\$4,518.36
Group #60671-600-211-09/2019 RETIREE - BCBS		Check Date:	08/21/2019
101-290-714.500	General Retirees		502.04
101-305-714.500	Police Retirees		502.04
101-336-714.500	Fire Retirees		3,514.28
COMCAST		Invoice Amount:	\$61.67
Internet - September 2019 Xfinity Acct 8529		Check Date:	08/21/2019
101-290-941.000	September 2019 Internet		61.67
I.A.F.F. - LOCAL 1496		Invoice Amount:	\$3,540.00
#900536 CREDIT ACCT #66357-5-19 for 08/2019		Check Date:	08/21/2019
101-100-232.020	August 2019 Union Dues		3,540.00
JOHN HANCOCK LIFE INSURANCE CO.		Invoice Amount:	\$5,268.49
CREDIT CONTRACT #88667 FOR 8/16/19 - EMPL		Check Date:	08/21/2019
101-100-231.000	Employee Contribution (EEMBT)(EEVND)		5,268.49
JOHN HANCOCK LIFE INSURANCE CO.		Invoice Amount:	\$17,247.35
CREDIT CONTRACT #88667 for 8/16/19 - EMPLO		Check Date:	08/21/2019
588-588-714.010	Friendship Station (Boyce)		305.61
101-171-714.010	Supervisor's Office		1,103.70
101-201-714.010	IT Services (Janks)		746.45
101-215-714.010	Clerk's Office		1,306.22
101-253-714.010	Treasurer's Office		954.29
101-305-714.010	Police Dept.		748.23
101-325-714.010	Dispatch (Bonadeo)		294.19
101-336-714.020	Fire Dept		4,578.12
101-336-714.010	Fire (Admin) (Jowsey)		256.05

Charter Township of Plymouth AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

	101-371-714.010	Building Dept.	1,424.86
	101-265-714.010	Township Hall (Haack)	238.39
	592-172-714.010	Public Services (Kline, Latawiec, Martin)	837.23
	226-226-714.010	Solid Waste (Visel)	323.66
	592-291-714.040	DPW	2,625.12
	592-291-714.010	DPW (Fellrath & Hamann)	1,197.88
	101-262-714.010	Elections (Paula Jefferson)	307.35
JOHN HANCOCK LIFE INSURANCE CO.			Invoice Amount: \$(2,720.71)
CREDIT 2/14/19 C. JOHNSON, 7/23/19 VANGEME			Check Date: 08/21/2019
	101-336-714.020	CREDIT C JOHNSON	(0.18)
	101-336-714.020	CREDIT B VAN GEMERT	(2,720.53)
NATIONWIDE RET SOL USCM/MIDWEST			Invoice Amount: \$17,108.55
Plan #0037121001. Pay ending 08/11-19 - sprea			Check Date: 08/21/2019
	101-100-239.000	Contributions for pay ending 7-28-19	17,108.55

Total Amount to be Disbursed: \$65,566.95
 CK #105238 DTD 8/8/19
 VOIDED - PAYABLE TO
 WRONG VENDOR
 PO #19-76627 TO BE
 PAID 8/28/19 TO REPLACE
 CHECK.

- 140⁰⁰
 65,426⁹⁵

69 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

Board Run 8/21/19

VENDOR INFORMATION

INVOICE INFORMATION

ALLIE BROTHERS UNIFORMS			Invoice Amount:	\$354.99
Inv. 76536 7/12/19 Uniform Equip/Ofc. Fetter			Check Date:	08/27/2019
	101-305-758.000	Uniform Boots		354.99
ALLIE BROTHERS UNIFORMS			Invoice Amount:	\$702.39
Fire Insp uniforms			Check Date:	08/27/2019
	101-336-758.000	s/s shirts		249.95
	101-336-758.000	Pants		274.95
	101-336-758.000	T shirt packs		88.50
	101-336-758.000	Cosks pack		54.00
	101-336-758.000	fire belt		34.99
ALLIE BROTHERS UNIFORMS			Invoice Amount:	\$150.00
Inv. 76594 7/18/19 Uniform Equip/Ofc. Nicely			Check Date:	08/27/2019
	101-305-758.000	Uniform Boots		150.00
ALLIE BROTHERS UNIFORMS			Invoice Amount:	\$148.98
Inv. 76724 7/31/19 Uniform Equip/Ofc. Nicely			Check Date:	08/27/2019
	101-305-758.000	Uniform S/S shirt		47.99
	101-305-758.000	Uniform Emblems		6.00
	101-305-758.000	Uniform Pants		64.99
	101-305-758.000	Uniform Side/SAP Pocket		30.00
APPLIED CONCEPTS, INC.			Invoice Amount:	\$300.00
Inv. 347642 5/7/19 Repair Radar			Check Date:	08/27/2019
	101-305-851.000	RGM148741-4		300.00
APPLIED CONCEPTS, INC.			Invoice Amount:	\$300.00
Inv. 347641 5/7/19 Repair Radar			Check Date:	08/27/2019
	101-305-851.000	RGM148818		300.00
APPLIED CONCEPTS, INC.			Invoice Amount:	\$260.00
Inv. 349930-A 6/21/19 Remote Control			Check Date:	08/27/2019
	101-305-851.000	Stalker 2X Instant On Remote Control		260.00
APOLLO FIRE EQUIPMENT			Invoice Amount:	\$4,177.00
coats, pants, belt - 2 each			Check Date:	08/27/2019
	101-336-758.100	Coat, pants, belt		4,177.00
APOLLO FIRE EQUIPMENT			Invoice Amount:	\$421.70
3 lg hoods			Check Date:	08/27/2019
	101-336-758.100	Lg H41 hoods w/shipping		421.70
ASSOCIATED NEWSPAPERS OF MICHIGAN			Invoice Amount:	\$126.56
SAD Hearing for Litchfield Dr (Plymouth Notch Su			Check Date:	08/27/2019
	101-215-813.000	SAD Hearing-Litchfield		126.56
ASSOCIATED NEWSPAPERS OF MICHIGAN			Invoice Amount:	\$126.56
SAD Hearing for Litchfield Dr (Plymouth Notch Su			Check Date:	08/27/2019
	101-215-813.000	SAD Hearing-Litchfield		126.56
ASSOCIATED NEWSPAPERS OF MICHIGAN			Invoice Amount:	\$30.39
Req for Sealed Bids for Accessible Improvements i			Check Date:	08/27/2019
	101-215-813.000	Accessible Pk Improvements		30.39
Cereal City Auto Parts (NAPA)			Invoice Amount:	\$1.99
VEHICLE ACCESSORIES			Check Date:	08/27/2019

70 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

Page: 27/29

VENDOR INFORMATION

INVOICE INFORMATION

	101-336-863.000	Ring Terminal		1.99
Cereal City Auto Parts (NAPA)			Invoice Amount:	\$11.98
Vehicle accessoriess			Check Date:	08/27/2019
	101-336-836.000	Alum Brightt		11.98
B & R JANITORIAL SUPPLY			Invoice Amount:	\$983.03
JANITORIAL SUPPLY FOR TOWNSHIP HALL-Invoi			Check Date:	08/27/2019
	101-265-776.000	BLDG AND GROUNDS INVOICE 186860		983.03
B S & A SOFTWARE			Invoice Amount:	\$2,598.00
SERVICE FEE FOR ONLINE PERMIT APPLICATION			Check Date:	08/27/2019
	101-371-818.000	INVOICE 124344		2,598.00
BATTERIES PLUS BULBS			Invoice Amount:	\$209.75
Battery Pack Assem			Check Date:	08/27/2019
	101-336-836.000	Battery Pack Assem STR90130		209.75
ASSA ABLOY ENTRANCE SYSTEMS US, INC			Invoice Amount:	\$620.28
MAIN PAVILLION ENTRY DOORS AT PARK REPAI			Check Date:	08/27/2019
	101-691-931.000	INVOICE SEI/01284005		620.28
Bill & Rods Appliances & Mattresses			Invoice Amount:	\$484.00
Electric Dryer Sta# 2			Check Date:	08/27/2019
	101-336-776.000	Dryer Sta# 2		484.00
BLACKWELL FORD INC.			Invoice Amount:	\$70.00
Inv. 351262 7/12/19 - Vehicle Repair/C07494			Check Date:	08/27/2019
	101-305-863.000	Replace 4 Tires		70.00
BLACKWELL FORD INC.			Invoice Amount:	\$265.19
Inv. 351186 7/12/19 - Vehicle Repair/A66875			Check Date:	08/27/2019
	101-305-863.000	Replace Sensor		265.19
BLACKWELL FORD INC.			Invoice Amount:	\$52.29
Inv. 350178 7/23/19 - Vehicle Repair/106809			Check Date:	08/27/2019
	101-305-863.000	Oil Change		52.29
BLACKWELL FORD INC.			Invoice Amount:	\$888.34
Inv. 351619 7/25/19 - Vehicle Repair/A66875			Check Date:	08/27/2019
	101-305-863.000	Replace 1 tire/Cooling Fan Assembly		888.34
BLACKWELL FORD INC.			Invoice Amount:	\$163.84
Inv. 351748 7/24/19 - Vehicle Repair/A66875			Check Date:	08/27/2019
	101-305-863.000	Mount and Balance New Tire		163.84
BLACKWELL FORD INC.			Invoice Amount:	\$150.94
Inv. 351836 7/26/19 - Vehicle Repair/A66875			Check Date:	08/27/2019
	101-305-863.000	Cut and Reprogram New Key		150.94
BLACKWELL FORD INC.			Invoice Amount:	\$530.08
Senior Bus Repair Invoice #351220 - Senior Bus			Check Date:	08/27/2019
	588-588-863.000	Senior Trans #351220		530.08
BLACKWELL FORD INC.			Invoice Amount:	\$75.63
Inv. 351368 7/16/19 - Vehicle Repair/106808			Check Date:	08/27/2019
	101-305-863.000	Tire Plug/Oil Change		75.63

71 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

Page: 2777

VENDOR INFORMATION

INVOICE INFORMATION

BLACKWELL FORD INC.		Invoice Amount:	\$66.17
Inv. 351395 7/16/19 - Vehicle Repair/106438		Check Date:	08/27/2019
101-305-863.000	The Works Fuel Saver Pckg/Air Filter		66.17
BLACKWELL FORD INC.		Invoice Amount:	\$204.75
Inv. 351498 7/18/19 - Vehicle Repair/B68428		Check Date:	08/27/2019
101-305-863.000	Replaced Battery		204.75
BLACKWELL FORD INC.		Invoice Amount:	\$51.51
Inv. 352623 8/13/19 - Vehicle Repair/A13226		Check Date:	08/27/2019
101-305-863.000	The Works Oil Change		51.51
BLACKWELL FORD INC.		Invoice Amount:	\$51.51
Inv. 351771 7/25/19 - Vehicle Repair/B68428		Check Date:	08/27/2019
101-305-863.000	The Works Oil Change		51.51
BLACKWELL FORD INC.		Invoice Amount:	\$568.13
Inv. 352285 8/8/19 - Vehicle Repair/A66875		Check Date:	08/27/2019
101-305-863.000	Replace Front Brakes		568.13
BLACKWELL FORD INC.		Invoice Amount:	\$403.05
Senior Bus Repair Invoice #350952- Senior Bus -		Check Date:	08/27/2019
588-588-863.000	Senior Trans #350952		403.05
OCCUPATIONAL HEALTH CENTERS OF MI		Invoice Amount:	\$113.50
Pre-PlacementPhysicals - Sara Gauss (Dispatch) I		Check Date:	08/27/2019
101-325-835.000	Sara Gauss (Disp)		113.50
OCCUPATIONAL HEALTH CENTERS OF MI		Invoice Amount:	\$403.50
- Invoice # 712811902 -Various services (see att		Check Date:	08/27/2019
101-305-818.000	Bradley Vaughan (PD) PrePlacement		187.50
592-172-818.000	David Nelson (DPW) UDS/Alcohol		88.00
592-172-818.000	J. Overitis (DPW) DOT Recertification		79.00
101-691-818.000	Richard Pagel (Parks) Preplacement		49.00
OCCUPATIONAL HEALTH CENTERS OF MI		Invoice Amount:	\$187.50
- Invoice # 712823264 -Robert Nunn (PD) Prepl		Check Date:	08/27/2019
101-305-818.000	Robert Nunn (PD) PrePlacement		187.50
OCCUPATIONAL HEALTH CENTERS OF MI		Invoice Amount:	\$98.00
Drug test and recertifications- various - Invoice #		Check Date:	08/27/2019
101-325-818.000	Glenn Miller (PD)		49.00
101-371-818.000	Daniel Atkins (BLD)		49.00
CDW GOVERNMENT INC		Invoice Amount:	\$202.08
Quote #KTBW464 7/22/19 Adapters for New Com		Check Date:	08/27/2019
101-305-727.000	C2G Bin DisplayPort to DVI #3368417		202.08
CDW GOVERNMENT INC		Invoice Amount:	\$176.70
Inv. TJL6788 8/5/19 Printer Cartridges for New Pr		Check Date:	08/27/2019
101-325-727.400	Epson T902 Cyan		176.70
CODE SAVVY CONSULTANTS LLC		Invoice Amount:	\$2,168.00
SPRINKLER SYSTEM PLAN REVIEW		Check Date:	08/27/2019
101-371-818.000	INVOICE 1530 WEBASTO HAGGERTY ROAD		2,168.00

72 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

CODE SAVVY CONSULTANTS LLC		Invoice Amount:	\$1,200.00
SPRINKLER SYSTEM PLSAN REVIEW		Check Date:	08/27/2019
101-371-818.000	INVOICE 1531 11333 GENERAL DRIVE		1,200.00
CORRIGAN OIL COMPANY		Invoice Amount:	\$2,053.05
Fuel #6865863 8/6/19		Check Date:	08/27/2019
592-291-863.000	Dyed Ultra Low Sulfur #2 Mix		967.64
592-291-863.000	Fuel Tax Recap		9.97
592-291-863.000	Environmental Fee		6.95
592-291-863.000	GE87 GAS-ETHANOL		1,068.49
DELWOOD SUPPLY CO.		Invoice Amount:	\$232.42
Tools for curb box repairs #0073355		Check Date:	08/27/2019
592-291-935.000	tools		232.42
DE WOLF & ASSOCIATES		Invoice Amount:	\$525.00
Inv. 2527 7/8/19 Communications Training for Su		Check Date:	08/27/2019
101-325-960.000	Supervisor Cindy Fell - June 26-28, 2019		525.00
MICH MUN RISK MGT AUTHORITY ECP		Invoice Amount:	\$16,989.65
Electric Choice - July 19		Check Date:	08/27/2019
101-336-921.000	Electric Choice		2,404.23
592-172-921.000	Electric Choice		1,021.02
101-171-921.000	Electric Choice		997.42
101-201-921.000	Electric Choice		533.70
101-209-921.000	Electric Choice		285.51
101-215-921.000	Electric Choice		866.80
101-253-921.000	Electric Choice		362.02
101-305-921.000	Electric Choice		2,864.44
101-325-921.000	Electric Choice		596.21
101-325-921.400	Electric Choice		596.21
101-336-921.000	Electric Choice		421.73
101-371-921.000	Electric Choice		627.94
101-371-921.500	Electric Choice		351.76
592-172-921.000	Electric Choice		826.68
592-172-921.000	Electric Choice		1,752.51
101-336-921.000	Electric Choice		906.56
101-691-921.000	Electric Choice		655.20
101-265-921.000	Electric Choice		467.90
588-588-921.000	Electric Choice		29.87
101-100-067.010	Electric Choice		421.94
Denny's Service Center		Invoice Amount:	\$585.80
#869114 Senior Transportation Vehicle Repair (d		Check Date:	08/27/2019
588-588-863.000	Labor and parts-# 869114		585.80
EHLERS HEATING & AIR CONDITIONING		Invoice Amount:	\$474.32
Furnace repair sta#1		Check Date:	08/27/2019
101-336-776.000	Replaced RTRM Board on furnace sta#1		474.32
EHLERS HEATING & AIR CONDITIONING		Invoice Amount:	\$169.00
Serv call for furnace/Air Cond Sta#1		Check Date:	08/27/2019
101-336-776.000	Service call furnace/AC @ sta#1		169.00
E S R I, INC.		Invoice Amount:	\$400.00
Annual ArcGIS Basic use Primary Maint		Check Date:	08/27/2019
101-336-824.000	Annual ArcGIS Basic Use Pri Maint		400.00

Charter Township of Plymouth

AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

ETNA SUPPLY			Invoice Amount:	\$2,032.00
SERVICE BOXES			Check Date:	08/27/2019
	592-291-935.000	TYLER SB 30 TOP SECTION W/ LID		544.00
	592-291-935.000	TYLER SB 39 BOTTOM SECTION		312.00
	592-291-935.000	MEA-55-2HA-AYM 5.5 ARCH BOX W/ 1" UPPER		720.00
	592-291-935.000	TYLER SB ENLARGED BASE		216.00
	592-291-935.000	AYM 36 STATIONARY ROD		240.00
ETNA SUPPLY			Invoice Amount:	\$720.00
3/4" AND 1" CURB STOP			Check Date:	08/27/2019
	592-291-935.000	MUELLER H15209N-1 COMP X COMP ORISEAL		510.00
	592-291-935.000	B44-33-Q-NL-3/4" CURB STOP BOTH ENDS QUI		210.00
ETNA SUPPLY			Invoice Amount:	\$140.00
3/4" AND 1" CURB STOP			Check Date:	08/27/2019
	592-291-935.000	B44-33-Q-NL-3/4" CURB STOP BOTH ENDS QUI		140.00
FIRE MODULES LLC			Invoice Amount:	\$1,199.00
Annual CAD renewal			Check Date:	08/27/2019
	101-336-824.000	Annual CAD renewal		1,199.00
FIRE SERVICE MANAGEMENT			Invoice Amount:	\$333.50
Clean & Repair gear Pla#1			Check Date:	08/27/2019
	101-336-758.100	Clean & Repair gear Pl#1		333.50
FIRE SERVICE MANAGEMENT			Invoice Amount:	\$114.50
Clean & Repair gear			Check Date:	08/27/2019
	101-336-758.100	Clean and repair gear Bigger, Roselle		114.50
FIRE SERVICE MANAGEMENT			Invoice Amount:	\$344.50
clean and repair gear			Check Date:	08/27/2019
	101-336-758.100	Clean and repair gear		344.50
PENWELL CORPORATION			Invoice Amount:	\$600.00
Fire streaming videos 1 yr			Check Date:	08/27/2019
	101-336-960.000	Video Library 7/31/19-7/29/20		600.00
GFL Environmental USA, Inc.			Invoice Amount:	\$103,405.68
JULY 2019 - RESIDENTIAL COLLECTION FEE			Check Date:	08/27/2019
	226-226-810.000	JUL 2019 TRASH		66,826.80
	226-226-810.000	JUL 2019 RECYCLING		18,641.16
	226-226-810.000	JUL 2019 YARD WASTE		17,937.72
GUARDIAN ALARM CO			Invoice Amount:	\$265.95
Alarm billing PLYMOUTH TOWNSHIP DPW 46555			Check Date:	08/27/2019
	592-172-818.000	Monitoring, Maintenance & Services		265.95
Hallahan & Associates, PC			Invoice Amount:	\$3,236.89
Assessing Legal Services July 2019 (see detailed i			Check Date:	08/27/2019
	101-209-826.000	Assessing Legal Services-Inv# 16544		3,236.89
HEMMING,POLACZYK,CRONIN,SMITH,			Invoice Amount:	\$9,141.13
Legal Services July 2019 services (KEVIN BENNE			Check Date:	08/27/2019
	101-290-825.000	Ordinance Prosecutions		5,607.00
	101-290-827.000	Community Development		1,876.88
	101-290-826.000	Admin		1,273.12
	101-290-826.000	Misc.		3.50

74 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

Page: 6714

VENDOR INFORMATION

INVOICE INFORMATION

	101-290-826.000	Building Dept.		380.63
HORTON PLUMBING			Invoice Amount:	\$222.50
Inv. 174719 7/9/19 Jail Cell Toilet Valve Tightene			Check Date:	08/27/2019
	101-325-851.400	Commercial Labor		52.50
	101-325-851.400	Com Main Sewer Clean		170.00
HUMANE SOCIETY OF HURON VALLEY			Invoice Amount:	\$100.00
Inv. 201907 7/31/19 Stray Impound Services - Jul			Check Date:	08/27/2019
	101-305-819.000	Stray Impound Services		100.00
HYDRO CORP			Invoice Amount:	\$1,779.00
Cross Connection Control program July 2019			Check Date:	08/27/2019
	592-291-804.000	Cross Connection Control program July 19		1,779.00
IPS Drug Testing, LLC			Invoice Amount:	\$40.00
Random Drug Test - P/T Parks Employee James N			Check Date:	08/27/2019
	101-691-818.000	Pre-Employ Drug Test		40.00
J & B MEDICAL SUPPLY INC			Invoice Amount:	\$187.42
medical supplies			Check Date:	08/27/2019
	101-336-836.000	Airway Pro MRTM5001A-F		82.10
	101-336-836.000	Airway Pro MRTM5101A-TB		105.32
J & B MEDICAL SUPPLY INC			Invoice Amount:	\$373.92
medical supplies			Check Date:	08/27/2019
	101-336-836.000	Omni Pro MRTM8101F		373.92
J & B MEDICAL SUPPLY INC			Invoice Amount:	\$286.02
medical supplies			Check Date:	08/27/2019
	101-336-836.000	MSOMS-25055-U PVC NON-REBREATHER MASK		21.24
	101-336-836.000	BEC306500 POSIFLUSH NORMAL SALINE SYRI		106.24
	101-336-836.000	MAL85863 MALLINCKRODT INTUBATING STYL		13.08
	101-336-836.000	AMB544-211-000 SPUR II RESUSCITATOR W/M		79.40
	101-336-836.000	KIM55082 KC500 PURPLE NITRILE EXAM GLOV		66.06
J & B MEDICAL SUPPLY INC			Invoice Amount:	\$25.44
medical supplies			Check Date:	08/27/2019
	101-336-836.000	Medicut shears		25.44
JAN DOOR			Invoice Amount:	\$1,802.20
DOOR REPAIR STA#3 MAY 2019			Check Date:	08/27/2019
	101-336-776.000	Door Repair Sta#3 5/29/19		1,802.20
ADVANCED PROPERTY EXPOSURE INC.			Invoice Amount:	\$240.00
Additional License for Smart Capture			Check Date:	08/27/2019
	101-336-824.000	Smart Capture License		240.00
KNIGHT TECHNOLOGY GROUP, INC.			Invoice Amount:	\$1,500.00
Inv. 13285 6/17/19 Configuration and Build Out o			Check Date:	08/27/2019
	101-305-978.000	Services Performed on 6/7/19		1,500.00
KONICA MINOLTA BUSINESS SOLUTIONS			Invoice Amount:	\$156.08
Maintenance 8/31/19-8/30/2020			Check Date:	08/27/2019
	101-171-727.000	C454e Copier Maintenance		32.78
	101-201-851.000	Maint.		6.24
	101-371-851.500	Maint.		7.80

75 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

	226-226-727.000	Maint.	7.80
	592-172-818.000	Maint	101.46
KONICA MINOLTA BUSINESS SOLUTIONS			Invoice Amount: \$2.35
Printer/Copier - Assessor - Invoice # 260328351 -			Check Date: 08/27/2019
101-209-818.000	Copier fees - Assessor		2.35
LARSON, OSCAR W. CO.			Invoice Amount: \$247.50
PERFORMED QUARTERLY "B" OPERATOR INSPEC			Check Date: 08/27/2019
592-291-863.000	HS&E		10.00
592-291-863.000	ST/TECHNICIAN		237.50
LARSON, OSCAR W. CO.			Invoice Amount: \$361.77
REPLACE FILL COVER, INSPECT SITE, REPLACED			Check Date: 08/27/2019
592-291-863.000	HS&E		10.00
592-291-863.000	ST/TECHNICIAN		142.50
592-291-863.000	CAST IRON COVER WITH SEAL		209.27
LARSON, OSCAR W. CO.			Invoice Amount: \$2,500.00
CONCRETE REPAIR NEAR GAS PUMPS AT 46555			Check Date: 08/27/2019
592-172-776.000	CONCRETE REPAIR AT DPW		2,500.00
LERMA			Invoice Amount: \$85.00
Fall Training Conference 2019 - Karen Bonadeo			Check Date: 08/27/2019
101-305-960.000	Traverse City - 9/25/19 - 9/27/19		85.00
LIVONIA, CITY OF			Invoice Amount: \$180.00
Inv. 2019-00000063 7/16/19 AFIS Services April-J			Check Date: 08/27/2019
101-305-818.000	Fingerprint Computer Identification		180.00
AutoZone			Invoice Amount: \$5.79
Inv. 4382331308 7/24/19 Auto Supplies			Check Date: 08/27/2019
101-305-863.000	Rearview Mirror Adhesive		5.79
M H R BILLING SERVICES			Invoice Amount: \$558.00
TRANSPORT BILLING FEE			Check Date: 08/27/2019
101-336-959.000	TRANSPORT BILLING FEES		558.00
MAIN STREET AUTO WASH			Invoice Amount: \$430.00
June and July (through 7/22/19) Car Washes			Check Date: 08/27/2019
101-305-863.000	Police Vehicles		410.00
101-336-863.000	Fire Admin. Vehicles		5.00
101-371-863.000	Building Vehicles		15.00
MARK'S OUTDOOR POWER EQUIPMENT			Invoice Amount: \$44.88
Invoice # 170081-Weed Whip Coil (E. Anderson)			Check Date: 08/27/2019
101-691-931.000	Invoice # 170081		44.88
MARK'S OUTDOOR POWER EQUIPMENT			Invoice Amount: \$26.49
Invoice # 170042- CPump Drive Belt on Z#2 (E.			Check Date: 08/27/2019
101-691-931.000	Invoice # 170042		26.49
Marquis Food Service, Inc.			Invoice Amount: \$112.25
Inv. 9018 8/2/19 Prisoner Meals			Check Date: 08/27/2019
101-325-818.400	Turkey Subs		47.25
101-325-818.400	Breakfast Sandwiches		32.50
101-325-818.400	Hamburger		27.50

Charter Township of Plymouth

AP Invoice Listing - Board Report

VENDOR INFORMATION**INVOICE INFORMATION**

	101-325-818.400	Delivery		5.00
Marquis Food Service, Inc.			Invoice Amount:	\$54.00
Inv. 9027 8/9/19 Prisoner Meals			Check Date:	08/27/2019
	101-325-818.400	Breakfast Sandwiches		32.50
	101-325-818.400	Hamburger		16.50
	101-325-818.400	Delivery		5.00
MCKENNA ASSOCIATES INC			Invoice Amount:	\$1,937.50
Professional Services -July 2019 - 90047-31(det			Check Date:	08/27/2019
	101-371-818.500	Prep & Attend Mtg - 7/19		577.50
	101-371-818.500	#2340 - Admin Rev.-Ply. Oaks Blvd		1,010.00
	101-371-818.500	Monroe Bank Landscape Review		350.00
MCKENNA ASSOCIATES INC			Invoice Amount:	\$5,054.00
Professional Services - July 2019 - Invoice # 217			Check Date:	08/27/2019
	101-371-818.500	13.30 - 1/2 day on-site services (70%)		5,054.00
MICHIGAN CAT			Invoice Amount:	\$311.90
Parts/Repair/Labor for Caterpillar 420D A #SD101			Check Date:	08/27/2019
	592-291-851.000	Parts and labor, preventive maintenance		311.90
State of Michigan			Invoice Amount:	\$4,746.57
UIA - Employer Billing for 2018 Benefit Charges -			Check Date:	08/27/2019
	101-691-714.000	UIA -Employer Billing -Kidd		1,921.76
	101-336-714.000	UIA - Employer Billing-McCreedy		2,201.60
	101-325-714.000	UIA - Employer Billing - Montroy		651.00
	101-691-714.000	Prior State Credits from 2017		(27.79)
Ferguson Waterworks			Invoice Amount:	\$6,424.90
INVOICE 0081545 - WATER METER PARTS			Check Date:	08/27/2019
	592-172-780.000	3/4 LEAT MTR WSHR 1/8		10.00
	592-172-780.000	LF 1X2-5/8 MIP STRT MTR COUPLING		892.50
	592-172-780.000	LF 3/4X2 1/2 MIP STRT MTR COUPLING		580.00
	592-172-780.000	LF 1 T 10 MTR P/C R900I USG		2,882.16
	592-172-780.000	1 T10 MTR P/C CF *X		2,060.24
Ferguson Waterworks			Invoice Amount:	\$1,087.68
WATER METER PARTS			Check Date:	08/27/2019
	592-172-780.000	1 1/2 T10 MTR P/C USG *X		1,087.68
Ferguson Waterworks			Invoice Amount:	\$4,350.72
WATER METER PARTS			Check Date:	08/27/2019
	592-172-780.000	1 1/2 T10 MTR P/C USG *X		4,350.72
MICHIGAN LINEN SERVICE			Invoice Amount:	\$84.35
Uniforms 8/9/19 #411337			Check Date:	08/27/2019
	592-172-758.000	8/9/19		84.35
MICHIGAN LINEN SERVICE			Invoice Amount:	\$113.35
Uniforms 8/2/19 #410929			Check Date:	08/27/2019
	592-172-758.000	8/2/19		113.35
MOBILE COMMUNICATION SERVICES INC			Invoice Amount:	\$425.00
Inv. 106242 7-23-19 Radio Repair			Check Date:	08/27/2019
	101-325-851.000	Labor - Travel to PD		85.00
	101-325-851.000	Reprogram New Radio		340.00

77 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

Page: 21 of 24

VENDOR INFORMATION

INVOICE INFORMATION

GIARMARCO, MULLINS & HORTON, PC.		Invoice Amount:	\$1,699.30
Labor Atty. Services (John C. Clark) - July 2019 (d		Check Date:	08/27/2019
101-290-828.000	Labor Atty Services (John Clark) #12		1,699.30
NORTHERN CONTROLS GROUP, INC		Invoice Amount:	\$140.00
Control System Service - Plymouth TWP#2042		Check Date:	08/27/2019
592-172-973.010	RESTORING DESKLOCK APP CONFIG ON SERV		140.00
NORTHVILLE, CHARTER TOWNSHIP OF		Invoice Amount:	\$200.00
July 2019 Five Mile Road Corridor Project		Check Date:	08/27/2019
101-371-818.500	July 2019 5 Mile Corridor Project		200.00
NORTHVILLE, CHARTER TOWNSHIP OF		Invoice Amount:	\$200.00
June 2019 Five Mile Road Corridor Project		Check Date:	08/27/2019
101-371-818.500	June 2019 5 Mile Corridor Project		200.00
OFFICE DEPOT		Invoice Amount:	\$72.16
Office Supplies - Supervisor's Dept. - 7/19/19 Inv		Check Date:	08/27/2019
101-171-727.000	OD Brand Post it notes 0843787		9.90
101-171-727.000	Duracell AA Batteries 458914		12.01
101-171-727.000	Standard Staples 0432255		3.39
101-171-727.000	Certificate Holders - Navy		6.37
101-171-727.000	Hammermill Paper 0347005		40.49
OFFICE DEPOT		Invoice Amount:	\$92.54
Crown staples, binder dividers, ret address labels		Check Date:	08/27/2019
101-215-727.000	PowerCrown Staples		27.99
101-215-727.000	White 5-tab dividers		12.32
101-215-727.000	Big Tab Printable dividers		41.24
101-215-727.000	Return Address Labels		10.99
OFFICE DEPOT		Invoice Amount:	\$127.82
Office Supplies		Check Date:	08/27/2019
101-215-727.000	Office Supplies		127.82
OFFICE DEPOT		Invoice Amount:	\$17.97
Office Supplies		Check Date:	08/27/2019
101-215-727.000	Office Supplies		17.97
OFFICE DEPOT		Invoice Amount:	\$35.92
Office Supplies		Check Date:	08/27/2019
101-215-727.000	Office Supplies		35.92
OFFICE DEPOT		Invoice Amount:	\$10.19
office supplies		Check Date:	08/27/2019
101-336-727.000	"Employees Only" sign		10.19
OFFICE DEPOT		Invoice Amount:	\$15.99
office supplies		Check Date:	08/27/2019
101-336-727.000	set of 3 flash drives		15.99
OFFICE DEPOT		Invoice Amount:	\$11.09
office supplies		Check Date:	08/27/2019
101-336-727.000	4X4 post it notes		11.09
OFFICE DEPOT		Invoice Amount:	\$18.79
office supplies		Check Date:	08/27/2019

Charter Township of Plymouth

AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

	101-336-727.000	digital USB speakers	18.79
OFFICE DEPOT		Invoice Amount:	\$28.76
Inv. 346179123001 7/23/19 - Office Supplies for		Check Date:	08/27/2019
	101-305-727.000	Copy Safe Project Folders	28.76
OFFICE DEPOT		Invoice Amount:	\$60.38
Inv. 346179122001 7/23/19 - Office Supplies for		Check Date:	08/27/2019
	101-305-727.000	Heavy Duty Sheet Protectors	48.79
	101-325-727.000	Magnetic Hooks	11.59
OFFICE DEPOT		Invoice Amount:	\$234.75
Inv. 337625069001 7/9/19 - Office Supplies for		Check Date:	08/27/2019
	101-305-727.000	USB Drives 32GB	69.90
	101-305-727.000	USB Drives 64GB	164.85
OFFICE DEPOT		Invoice Amount:	\$86.59
Inv. 346160950001 7/23/19 - Office Supplies for		Check Date:	08/27/2019
	101-305-727.000	Glass Cleaner	8.58
	101-305-727.000	Electronics Cleaner	5.59
	101-305-727.000	Catalog Envelopes	14.71
	101-305-727.000	Post-it Notes	29.96
	101-305-727.000	Binders	15.96
	101-305-727.000	Clipboard	11.79
OAKLAND COUNTY		Invoice Amount:	\$6,740.25
Inv. CLM0010506 6/30/19 Clemis Fees - April-Jun		Check Date:	08/27/2019
	101-325-818.000	Membership Usage Fee	1,729.00
	101-325-818.000	MDC Participation Fee	3,008.50
	101-325-818.000	Crimemapping	75.00
	101-325-818.000	Livescan (Jul-Sept 2019)	927.75
	101-325-818.000	Mug Capture Stn Maint (Jul-Sept 2019)	1,000.00
OAKLAND COUNTY		Invoice Amount:	\$36.50
Inv. INF0002464 7/9/19 Out-County GIS Data		Check Date:	08/27/2019
	101-325-818.000	GIS DATA	36.50
OAKLAND COUNTY		Invoice Amount:	\$980.42
Inv. MTP0000421 8/1/19 Remove Old Printers in		Check Date:	08/27/2019
	101-305-851.000	Motorpool Ext Productive Labor	980.42
PSTGP, LLC (PROFESSIONAL POLICE)		Invoice Amount:	\$475.00
Inv. 480 8/7/19 Advanced Non-Destructive Entry		Check Date:	08/27/2019
	101-305-960.000	Officer Fritz - Aug. 21-22, 2019	475.00
PELTZ SODDING		Invoice Amount:	\$102.60
Sod for water main break restoration picked up 7/		Check Date:	08/27/2019
	592-291-932.000	Sod picked up 7/15/19	45.90
	592-291-932.000	Sod picked up 7/12/19	56.70
PLYMOUTH RUBBER & TRANSMISSION		Invoice Amount:	\$23.49
JOY ROAD SUMP PUMP REPAIR #231707 7/31/19		Check Date:	08/27/2019
	592-291-851.000	BARB HOSE 2" H X 2' MNPT	8.36
	592-291-851.000	COUPLER GALV 2	11.56
	592-291-851.000	CLAMP WORMGEAR 1 9/16-2 1/2	2.66
	592-291-851.000	SEAL TAPE PTFE 1/2 X 260	0.91

Charter Township of Plymouth

AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

CHARTER TWSP OF PLYMOUTH		Invoice Amount:	\$2,543.16
Comerica Bank-Credit Card Charges July 2019		Check Date:	08/27/2019
101-325-851.000	Brothers-HD-Refrigerator-Dispatch		746.10
101-691-931.000	Anderson-HD-Corner Moulding		25.48
101-691-931.000	Anderson-HD-WASP sspray; propae tanks		83.05
101-305-963.000	Gordon-Dunkin'-Monthly Detective Meeting		25.36
101-305-963.000	Gordon-Kroger-Monthly Detective Meeting		2.79
101-305-963.000	Gordon-Panera-Monthly Detective Meeting		13.12
101-336-776.000	Gross-HD-Sta.#3 Cleaning Supplies		12.86
101-265-858.000	Haack-Sams-Supplies for Friendship Stati		290.42
101-265-776.000	Haack-Supplies-Twp; Hall		74.86
226-226-810.000	Haack-Ace-Trash can for resident		18.01
101-265-776.000	Haack-Ligting Suplly-Bulbs		129.60
101-305-776.000	Haack-Delwood-Bathroom Plumbing Repair P		70.67
101-265-858.000	Haack-HD-Supplies-Friendsship Station		122.32
592-172-776.000	Hamann-Amazon-Fuses - sprayscape		21.97
592-172-776.000	Hamann-HD-tools (snading & grinding		22.31
592-172-818.000	Hamann-Amazon-Ice Maker (Sampling comp)		409.99
592-291-934.000	Hamann-HD-Painting supplies-Hydrants		36.62
592-172-818.100	Hamann-HD-Supplies to install icer maker		132.63
592-172-776.000	Hamann-HD-Water Supply line and valve		13.75
592-291-935.000	Hamann-HD-Piping		84.04
101-955-885.000	Heise-Constant Contact-E-News Dist.		70.00
101-305-851.000	Kudra-HD-Rubber water hose for sally por		31.77
101-336-776.000	Mack-HD-vrious items - Station 3		54.75
101-336-863.000	Phillips-HD-Breaker		17.48
101-336-863.000	Phillips-HD-Accessories for vehicles		33.21
PROMOZING		Invoice Amount:	\$215.00
6 page Color Booklets	"Preparing the Ta	Check Date:	08/27/2019
101-215-813.000	6 page color booklets		215.00
AIRGAS USA, LLC		Invoice Amount:	\$353.04
Oxygen		Check Date:	08/27/2019
101-336-836.000	Oxygen tanks		353.04
RED WING SHOES		Invoice Amount:	\$291.98
WORK BOOTS		Check Date:	08/27/2019
101-371-727.000	INVOICE 20190410030481 - MACDONALD		161.99
101-371-727.000	INVOICE 20190710030481 - HAACK		129.99
SAFARILAND, LLC		Invoice Amount:	\$256.98
Inv. I010-222699 7/11/19 Evidence Security Bags		Check Date:	08/27/2019
101-325-727.400	6 x 8 Evidence Security Bags		139.64
101-325-727.400	9 x 12 Evidence Security Bags		97.76
101-325-727.400	Freight		19.58
SERENE LANDSCAPE GROUP		Invoice Amount:	\$1,253.32
TURF FERTILIZATION ROUND 4		Check Date:	08/27/2019
101-691-931.000	INVOICE 45630 PLY TOWNSHIP PARK		1,253.32
SERENE LANDSCAPE GROUP		Invoice Amount:	\$126.66
TURF FERTILIZATION ROUND 4		Check Date:	08/27/2019
101-691-931.000	INVOICE 45629 BRENTWOOD PARK		126.66
SERENE LANDSCAPE GROUP		Invoice Amount:	\$445.00
TURF FERTILIZATION ROUND 4		Check Date:	08/27/2019

80 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

Page: 12724

VENDOR INFORMATION

INVOICE INFORMATION

	101-691-931.000	INVOICE 45628 LAKE POINTE SOCCER PARK	445.00
SERENE LANDSCAPE GROUP		Invoice Amount:	\$57.50
TURF FERTILIZATION ROUND 4		Check Date:	08/27/2019
	592-172-776.000	INVOICE 45627 DPW BUILDING	57.50
SERENE LANDSCAPE GROUP		Invoice Amount:	\$102.75
TURF FERTILIZATION ROUND 4		Check Date:	08/27/2019
	101-691-931.000	INVOICE 45626 PLY POINTE PARK	102.75
SERENE LANDSCAPE GROUP		Invoice Amount:	\$262.50
TURF FERTILIZATION ROUND 4		Check Date:	08/27/2019
	101-691-931.000	INVOICE 45625	262.50
SERENE LANDSCAPE GROUP		Invoice Amount:	\$50.00
TURF FERTILIZATION ROUND 4		Check Date:	08/27/2019
	101-265-858.000	INVOICE 45624 FRIENDSHIP STATION	50.00
SERENE LANDSCAPE GROUP		Invoice Amount:	\$85.00
TURF FERT ROUND 4 FIRE #3		Check Date:	08/27/2019
	101-336-776.000	INVOICE 45623	85.00
SERENE LANDSCAPE GROUP		Invoice Amount:	\$111.25
TURF FERTILIZATION ROUND 4		Check Date:	08/27/2019
	101-336-776.000	INVOICE 45622 FIRE STATION #2	111.25
SERENE SURROUNDINGS, INC.		Invoice Amount:	\$2,462.50
Township Hall Grounds - Invoice # 45457A - Jul		Check Date:	08/27/2019
	101-265-776.000	Bldg Dept. Township Hall 7/19	2,462.50
SIRCHIE FINGER PRINT LAB		Invoice Amount:	\$1,507.18
Inv. 0410817-IN 8/6/19 Property Room Supplies		Check Date:	08/27/2019
	101-305-727.000	E-Z Peel Evidence Tape	143.70
	101-305-727.000	Box Sealing Tape	21.64
	101-305-727.000	Combination Tags	45.22
	101-305-727.000	Integrity Evidence Bags 4 x 7 1/2	116.34
	101-305-727.000	Integrity Evidence Bags 12 x 15	238.91
	101-305-727.000	Integrity Evidence Bags 9 x 12	179.17
	101-305-727.000	Kraft Evidence Bags	130.76
	101-305-727.000	Atomic Absorption Kit	74.11
	101-305-727.000	Evidence Rifle Boxes	200.70
	101-305-727.000	Evidence Gun Boxes	112.02
	101-305-727.000	Evidence Knife Boxes	61.70
	101-305-727.000	Standard Fiber Brush	9.22
	101-305-727.000	Hinge Lifter	8.75
	101-305-727.000	Latent Print Powder	6.70
	101-305-727.000	Hinge Lifter 2 x 4	8.24
	101-305-727.000	Cyanoacrylate Comp	5.50
	101-305-727.000	Shipping	144.50
SPRINT LEGAL COMPLIANCE		Invoice Amount:	\$100.00
Inv. LCI-318915 7/1/19 L-Site GPS (5/29/19-6/28		Check Date:	08/27/2019
	101-305-818.000	PTPD Case #19-5629	100.00
SURE-FIT LAUNDRY CO.		Invoice Amount:	\$45.00
Inv. 416866 5/23/19 Prisoner Blanket Cleaning		Check Date:	08/27/2019
	101-325-851.000	Blanket Cleaning	45.00

Charter Township of Plymouth

AP Invoice Listing - Board Report

VENDOR INFORMATION**INVOICE INFORMATION**

SURE-FIT LAUNDRY CO.			Invoice Amount:	\$22.50
Inv. 412243 1/24/19 Prisoner Blanket Cleaning			Check Date:	08/27/2019
	101-325-851.000	Blanket Cleaning		22.50
SURE-FIT LAUNDRY CO.			Invoice Amount:	\$22.50
Inv. 415548 4/18/19 Prisoner Blanket Cleaning			Check Date:	08/27/2019
	101-325-851.000	Blanket Cleaning		22.50
SURE-FIT LAUNDRY CO.			Invoice Amount:	\$45.00
Inv. 418599 7/11/19 Prisoner Blanket Cleaning			Check Date:	08/27/2019
	101-325-851.000	Blanket Cleaning		45.00
SURE-FIT LAUNDRY CO.			Invoice Amount:	\$22.50
Inv. 419065 7/25/19 Prisoner Blanket Cleaning			Check Date:	08/27/2019
	101-325-851.000	Blanket Cleaning		22.50
SURE-FIT LAUNDRY CO.			Invoice Amount:	\$38.25
Inv. 418844 7/18/19 Prisoner Blanket Cleaning			Check Date:	08/27/2019
	101-325-851.000	Blanket Cleaning		38.25
SURE-FIT LAUNDRY CO.			Invoice Amount:	\$33.75
Inv. 419291 8/1/19 Prisoner Blanket Cleaning			Check Date:	08/27/2019
	101-325-851.000	Blanket Cleaning		33.75
SURE-FIT LAUNDRY CO.			Invoice Amount:	\$45.00
Inv. 419778 8/15/19 Prisoner Blanket Cleaning			Check Date:	08/27/2019
	101-325-851.400	Blanket Cleaning		45.00
STRYKER SALES CORPORATION			Invoice Amount:	\$135.32
Inv. 2719640M 7/11/19 Lifepak CR Plus - AED In			Check Date:	08/27/2019
	101-305-851.000	Battery for AED		103.32
	101-305-851.000	FREIGHT		32.00
STRYKER SALES CORPORATION			Invoice Amount:	\$561.92
Laryngoscope blades			Check Date:	08/27/2019
	101-336-836.000	Laryngoscope blades		537.92
	101-336-836.000	Freight		24.00
3SI SECURITY SYSTEMS			Invoice Amount:	\$216.00
Inv. 723970 6/24/19 Police Dept. Tracker			Check Date:	08/27/2019
	101-305-851.000	Annual Usage - PD Tracker		216.00
Thomas, James			Invoice Amount:	\$74.28
Renewal of CDL 07/25/19			Check Date:	08/27/2019
	592-291-863.000	Reimbursement - Michigan Dept of State		74.28
TOUCH OF CLASS CLEANERS			Invoice Amount:	\$1,377.43
Uniform Dry Cleaning / Police Dept. Sworn Person			Check Date:	08/27/2019
	101-305-758.000	Cleaning from 1/1/19 - 4/30/19		1,377.43
TOWN LOCKSMITH			Invoice Amount:	\$19.80
Inv. 41482 6/24/19 Keys made by Ofc. Ripp			Check Date:	08/27/2019
	101-305-727.000	A1207 BRN KZ		19.80
USA BLUEBOOK			Invoice Amount:	\$203.67
Marking Equipment #960024 7/24/19			Check Date:	08/27/2019
	592-291-935.000	Flag 21' Wire Staff (Blue)		158.40

Charter Township of Plymouth

AP Invoice Listing - Board Report

VENDOR INFORMATION**INVOICE INFORMATION**

	592-291-935.000	tax	11.53
	592-291-935.000	freight	33.74
VIGILANTE SECURITY		Invoice Amount:	\$105.00
PRN Monitoring 08/15/19-11/14/19		Check Date:	08/27/2019
	592-172-818.000	15275 Northville Rd.	105.00
WCA ASSESSING		Invoice Amount:	\$417.78
WCA Assessing -July 2019 Special Billing - Contra		Check Date:	08/27/2019
	101-209-818.000	July 2019 Special Billing - Appraisal	417.78
Thomas Reuters -WEST PAYMENT CENTER		Invoice Amount:	\$300.68
Inv. 840515589 7/1/19 West Information Charges		Check Date:	08/27/2019
	101-305-960.000	June 1-30, 2019	300.68
Thomas Reuters -WEST PAYMENT CENTER		Invoice Amount:	\$300.68
Inv. 840691271 8/1/19 West Information Charges		Check Date:	08/27/2019
	101-305-960.000	July 1-31, 2019	300.68
WIN-911 SOFTWARE		Invoice Amount:	\$495.00
Maint & Support #143XT229-20191020 07/22/19		Check Date:	08/27/2019
	592-172-973.010	Annual Renewal of Software	495.00
WINDER POLICE EQUIPMENT		Invoice Amount:	\$100.00
Inv. 191614 7/19/19 Replace License ION Lights		Check Date:	08/27/2019
	101-305-863.000	Labor	90.00
	101-305-863.000	Misc. wire terminals	10.00
WINDER POLICE EQUIPMENT		Invoice Amount:	\$1,467.00
Inv. 191547 7/12/19 Equipment Install Unit 19-1		Check Date:	08/27/2019
	101-305-863.000	100 Amp Circuit Breaker	42.00
	101-305-863.000	E-Chain Product	100.00
	101-305-863.000	Brake Kill Security System	125.00
	101-305-863.000	Plate Harness	600.00
	101-305-863.000	Body Harness	400.00
	101-305-863.000	Lamp Harness	200.00
JA CARNEY PLUMBING INC		Invoice Amount:	\$696.00
REFUND OF PERMITS		Check Date:	08/27/2019
	101-371-965.000	PM 19-0199 AND PP19-0072	696.00
Paula Wall		Invoice Amount:	\$22.00
CPR Class Refund		Check Date:	08/27/2019
	101-336-698.000	CPR fee Refund 7/22/19	22.00
Total Amount to be Disbursed:			\$227,318.67

83 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

RECEIVED 08/14/2019

VENDOR INFORMATION

INVOICE INFORMATION

HEMMING,POLACZYK,CRONIN,SMITH,		Invoice Amount:		\$65.63
BD Bond Refund		Check Date:		08/14/2019
	<i>701-100-202.701</i>	<i>BPZ18-0007</i>		<i>65.63</i>
SIMPLIFILE, LC		Invoice Amount:		\$42.00
BD Bond Refund		Check Date:		08/14/2019
	<i>701-100-202.701</i>	<i>BPZ19-0004</i>		<i>42.00</i>
SIMPLIFILE, LC		Invoice Amount:		\$48.00
BD Bond Refund		Check Date:		08/14/2019
	<i>701-100-202.701</i>	<i>BPZ19-0002</i>		<i>48.00</i>
Total Amount to be Disbursed:				\$155.63

**Charter Township of Plymouth
AP Invoice Listing - Board Report**

P. Bonds Page: *8/14/19*

VENDOR INFORMATION**INVOICE INFORMATION**

35TH DISTRICT COURT			Invoice Amount:	\$200.00
BOND RECEIPT 08/06/2019			Check Date:	08/16/2019
	<i>702-100-087.000</i>	<i>8083</i>		<i>200.00</i>
35TH DISTRICT COURT			Invoice Amount:	\$4,500.00
BOND RECEIPT 08/09/2019			Check Date:	08/16/2019
	<i>702-100-087.000</i>	<i>8087</i>		<i>4,500.00</i>
35TH DISTRICT COURT			Invoice Amount:	\$900.00
BOND RECEIPT 08/08/2019			Check Date:	08/16/2019
	<i>702-100-087.000</i>	<i>8084</i>		<i>500.00</i>
	<i>702-100-087.000</i>	<i>8085</i>		<i>400.00</i>
Total Amount to be Disbursed:				\$5,600.00

85 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

Weekly *Page 1141-11*

VENDOR INFORMATION

INVOICE INFORMATION

A T & T

AT&T - Telephone Allocation July 2019 - R01-977

<i>101-201-853.000</i>	<i>Information Services</i>	Invoice Amount:	\$1,915.69
<i>101-209-853.000</i>	<i>Assessing</i>	Check Date:	08/14/2019
<i>101-371-853.000</i>	<i>Building</i>		131.00
<i>101-336-853.000</i>	<i>Fire</i>		78.22
<i>101-305-853.000</i>	<i>Police</i>		218.05
<i>101-171-853.000</i>	<i>Supervisor</i>		344.20
<i>101-253-853.000</i>	<i>Treasurer</i>		348.70
<i>101-215-853.000</i>	<i>Clerk</i>		203.86
<i>101-371-853.500</i>	<i>Community Development</i>		173.92
<i>101-325-853.000</i>	<i>Dispatch</i>		101.58
<i>101-265-854.000</i>	<i>Water/Sewer (Util)</i>		81.15
<i>101-691-853.000</i>	<i>Park</i>		131.18
<i>592-172-853.000</i>	<i>Gen Expense Tel</i>		31.15
			24.40
			48.28

A T & T

June & July 2019 payment - Acct. 734-453-4461-

<i>101-336-853.000</i>	<i>Fire - June</i>	Invoice Amount:	\$770.00
<i>101-265-853.000</i>	<i>Twp. Hall - June</i>	Check Date:	08/14/2019
<i>101-691-853.000</i>	<i>Parks - June</i>		131.40
<i>592-291-853.000</i>	<i>DPW - June</i>		30.74
<i>101-336-853.000</i>	<i>Fire - July</i>		30.74
<i>101-265-853.000</i>	<i>Twp Hall - July</i>		192.12
<i>101-691-853.000</i>	<i>Parks - July</i>		131.40
<i>592-291-853.000</i>	<i>DPW - July</i>		30.74
			30.74
			192.12

AMERITAS LIFE INSURANCE CORP.

Policy #010-048445-001 - Ameritas - ACTIVE Den

<i>101-171-714.000</i>	<i>Supervisor Dept.</i>	Invoice Amount:	\$5,139.28
<i>101-201-714.000</i>	<i>Information Services</i>	Check Date:	08/14/2019
<i>101-215-714.000</i>	<i>Clerk Dept.</i>		28.40
<i>101-253-714.000</i>	<i>Treasury</i>		89.88
<i>101-265-714.000</i>	<i>Twp. Hall (Haack)</i>		110.16
<i>101-305-714.000</i>	<i>Police Dept.</i>		143.24
<i>101-325-714.000</i>	<i>Dispatch</i>		53.36
<i>101-336-714.000</i>	<i>Fire Dept.</i>		1,884.00
<i>101-371-714.000</i>	<i>Building Dept.</i>		669.72
<i>588-588-714.000</i>	<i>Senior Trans (Boyce)</i>		1,555.72
<i>226-226-714.000</i>	<i>Sollid Waste (Visel)</i>		196.60
<i>592-172-714.000</i>	<i>DPS Clerical</i>		89.88
<i>592-291-714.000</i>	<i>DPW - Supervisory</i>		89.88
			110.16
			118.28

AMERITAS LIFE INSURANCE CORP.

Policy #010-048445-002 - Ameritas-RETIREE-Den

<i>101-290-714.500</i>	<i>General Retirees</i>	Invoice Amount:	\$2,926.20
<i>101-305-714.500</i>	<i>Police Retirees</i>	Check Date:	08/14/2019
<i>101-325-714.500</i>	<i>Dispatch Retiree</i>		577.00
<i>101-336-714.500</i>	<i>Fire Dept. Retirees</i>		678.44
<i>592-172-714.500</i>	<i>DPS Clerical Retiree</i>		53.36
<i>592-291-714.500</i>	<i>DPW - Retiree</i>		1,240.44
			28.40
			348.56

COMCAST

Internet - August 2019 Acct 900913674

<i>101-691-921.000</i>	<i>Township Park</i>	Invoice Amount:	\$231.75
<i>101-336-921.000</i>	<i>Fire</i>	Check Date:	08/14/2019
<i>101-325-853.400</i>	<i>Telephone</i>		64.95
			64.95
			101.85

Charter Township of Plymouth

AP Invoice Listing - Board Report

VENDOR INFORMATION**INVOICE INFORMATION**

FIDELITY SECURITY LIFE INSURANCE CO		Invoice Amount:	\$575.36
EYEmed - Retirees August 2019 (Spreadsheets At		Check Date:	08/14/2019
101-290-714.500	General Retirees		98.43
101-305-714.500	Police Dept. Retirees		130.11
101-325-714.500	Dispatch Retiree		10.81
101-336-714.500	Fire Dept. Retirees		243.90
592-172-714.500	Public Services Retiree		5.69
592-291-714.000	Public Works Retirees		70.55
101-371-714.500	Building Retirees		15.87
FIDELITY SECURITY LIFE INSURANCE CO		Invoice Amount:	\$575.36
EYEmed - Retirees July 2019 (Spreadsheets Attac		Check Date:	08/14/2019
101-290-714.500	General Retirees		98.43
101-305-714.500	Police Dept. Retirees		130.11
101-325-714.500	Dispatch Retiree		10.81
101-336-714.500	Fire Dept. Retirees		243.90
592-172-714.500	Public Services Retiree		5.69
592-291-714.000	Public Works Retirees		70.55
101-371-714.500	Building Retirees		15.87
FIDELITY SECURITY LIFE INSURANCE CO		Invoice Amount:	\$976.75
EYEmed - Current Employees -July 2019 (spreads		Check Date:	08/14/2019
101-171-714.000	Supervisor Dept.		5.69
101-201-714.000	Info Systems		15.87
101-215-714.000	Clerk Dept.		38.06
226-226-714.000	Solid Waste (Visel)		15.87
101-253-714.000	Treasurer Dept.		26.68
101-265-714.000	Township Hall (Haack)		10.81
101-305-714.000	Police Dept.		370.05
101-325-714.000	Dispatch		133.91
101-336-714.000	Fire Dept.		262.70
101-371-714.000	Building Dept.		37.49
588-588-714.000	Senior Trans (Boyce)		15.87
592-172-714.000	Public Services		22.19
592-291-714.000	Public Works Admin.		21.56
FIDELITY SECURITY LIFE INSURANCE CO		Invoice Amount:	\$967.77
EYEmed - Current Employees -August 2019 (spre		Check Date:	08/14/2019
101-171-714.000	Supervisor Dept.		5.69
101-201-714.000	Info Systems		15.87
101-215-714.000	Clerk Dept.		6.32
226-226-714.000	Solid Waste (Visel)		15.87
101-253-714.000	Treasurer Dept.		26.68
101-265-714.000	Township Hall (Haack)		10.81
101-305-714.000	Police Dept.		370.05
101-325-714.000	Dispatch		156.67
101-336-714.000	Fire Dept.		262.70
101-371-714.000	Building Dept.		37.49
588-588-714.000	Senior Trans (Boyce)		15.87
592-172-714.000	Public Services		22.19
592-291-714.000	Public Works Admin.		21.56
MICHIGAN CONFERENCE OF TEAMSTERS		Invoice Amount:	\$12,744.00
Health insurance -September 2019 (DPW) (indivi		Check Date:	08/14/2019
592-291-714.000	Bartlett, James		1,593.00
592-291-714.000	Krueger, Randy		1,593.00
592-291-714.000	Melow, Steven		1,593.00

Charter Township of Plymouth

AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

592-291-714.000	Overaitis, Joseph	1,593.00
592-291-714.000	Scholten, James	1,593.00
592-291-714.000	Thomas, James	1,593.00
592-291-714.000	Nelson, David	1,593.00
592-291-714.000	Pumphrey, Zachary	1,593.00

M M L WORKER'S COMPENSATION FUND

Invoice Amount: **\$33,050.00**

MML - Workers Comp Fund - July 2019-2020 Cov

Check Date: **08/14/2019**

588-588-720.000	Bus Drivers (senior)	711.96
592-172-720.000	Water Operations	3,625.76
101-336-720.000	Firefighters	13,800.12
101-305-720.000	Police Officers	11,873.33
101-171-720.000	Clerical - Suopervisor	109.43
101-201-720.000	Clerical - IT	82.07
101-215-720.000	Clerical - Clerk	205.17
226-226-720.000	Clerical - Solid Waste	27.36
101-253-720.000	Clerical - Treasurer	82.07
101-305-720.000	Clerical-Police	41.03
101-325-720.000	Clerical-Dispatch (1)	54.71
101-325-720.000	Clerical Dispatch	519.77
101-336-720.000	Clerical - Fire	27.36
101-371-720.000	Clerical - Building	41.03
588-588-720.000	Clerical - Senior	27.36
592-172-720.000	Clerical - Water/Sewer	150.46
101-101-720.000	Elected Officials -	17.58
101-171-720.000	Elected Officials - Supervisor	11.39
101-215-720.000	Elected Officials - Clerk	11.39
101-253-720.000	Elected Officials - Treasurer	11.39
101-265-720.000	Building Operations	358.15
101-691-720.000	Parks & Rec	834.01
592-172-720.000	Municipal Employees -W & S	142.86
101-371-720.000	Municipal Employees - Building	284.24

WESTERN TWNSPS UTILITIES AUTHORITY

Invoice Amount: **\$134,057.38**

WTUA - July 2019

Check Date: **08/14/2019**

592-441-742.000	Monthly Charges	128,438.96
592-441-743.000	YUCA IPP-IWC	4,697.42
592-443-937.000	Country Acres Pump Station	662.25
592-100-185.000	Capital Improvement Program	258.75

WOW! BUSINESS

Invoice Amount: **\$19.88**

August 2019 Acct. # 012296705

Check Date: **08/14/2019**

101-265-854.000	Senior Util	18.69
588-588-921.000	Senior Transport	1.19

Total Amount to be Disbursed: \$193,949.42

Charter Township of Plymouth
AP Invoice Listing - Board Report

F. FUND: 817117

VENDOR INFORMATION**INVOICE INFORMATION**

14B DISTRICT COURT			Invoice Amount:	\$475.00
BOND RECEIPT 08/01/2019			Check Date:	08/09/2019
	702-100-087.000	8072		475.00
16TH DISTRICT COURT			Invoice Amount:	\$327.00
BOND RECEIPT 08/05/2019			Check Date:	08/09/2019
	702-100-087.000	8079		327.00
35TH DISTRICT COURT			Invoice Amount:	\$950.00
BOND RECEIPT 08/05/2019			Check Date:	08/09/2019
	702-100-087.000	8076		50.00
	702-100-087.000	8077		300.00
	702-100-087.000	8080		500.00
	702-100-087.000	8081		100.00
35TH DISTRICT COURT			Invoice Amount:	\$456.00
BOND RECEIPT 08/02/2019			Check Date:	08/09/2019
	702-100-087.000	8073		456.00
35TH DISTRICT COURT			Invoice Amount:	\$300.00
BOND RECEIPT 07/30/2019			Check Date:	08/09/2019
	702-100-087.000	8067		300.00
35TH DISTRICT COURT			Invoice Amount:	\$50.00
BOND RECEIPT 07/31/2019			Check Date:	08/09/2019
	702-100-087.000	8069		50.00
35TH DISTRICT COURT			Invoice Amount:	\$300.00
BOND RECEIPT 08/01/2019			Check Date:	08/09/2019
	702-100-087.000	8070		300.00
Total Amount to be Disbursed:				\$2,858.00

Charter Township of Plymouth

AP Invoice Listing - Board Report

weedy age 8/11/1

VENDOR INFORMATION**INVOICE INFORMATION**

ALERUS FINANCIAL		Invoice Amount:	\$5,400.61
Defined Contribution - PAYDATE August 2, 2019 (s		Check Date:	08/07/2019
101-325-714.050	Define Contribution -Dispatch (Employer)		1,458.79
101-100-231.000	Employee Cont -all		1,393.27
101-305-714.030	Define Contribution-Police (ER)		2,548.55
BUONO, DUANE		Invoice Amount:	\$5,945.75
JULY 2019 MECHANICAL INSPECTOR PAY		Check Date:	08/07/2019
101-371-818.000	JULY 2019 PAY		5,945.75
C.O.A.M. - PLYMOUTH TOWNSHIP		Invoice Amount:	\$363.20
COAM Union Dues - August 2019		Check Date:	08/07/2019
101-100-232.050	Fetner, William J.		72.64
101-100-232.050	Hoffman, Marc		72.64
101-100-232.050	Krebs, Ryan		72.64
101-100-232.050	Rupard, Bryan		72.64
101-100-232.050	Seipenko, Todd		72.64
COMCAST		Invoice Amount:	\$158.46
Comcast High Speed Internet - Township Park -A		Check Date:	08/07/2019
101-691-921.000	High Speed Internet - Township Park		158.46
COMCAST		Invoice Amount:	\$126.90
Comcast High Speed Internet - August 2019- 995		Check Date:	08/07/2019
101-290-941.000	Comcast High Speed Internet -August 2019		126.90
CONSUMERS ENERGY		Invoice Amount:	\$1,503.83
Monthly Chgs - July 2019		Check Date:	08/07/2019
101-171-921.000	Supervisor		119.54
101-201-921.000	Info Services		63.96
101-209-921.000	Assessing		34.22
101-215-921.000	Clerk		103.88
101-253-921.000	Treasurer		43.39
101-305-921.000	Police		343.29
101-325-921.000	Dispatch		71.45
101-325-921.400	Lock Up		71.45
101-336-921.000	Fire Dept		275.62
101-371-921.000	Building		75.26
101-371-921.500	Comm Devel		42.16
101-691-921.000	Park		68.93
226-226-921.000	Utilities-Solid Waste		9.91
592-444-745.000	Power & Pumping-DPW		180.77
DTE ENERGY		Invoice Amount:	\$6,273.46
DTE Service - Municipal Street Lights - July 2019-		Check Date:	08/07/2019
101-446-920.000	July 2019 Municipal Street Lights		6,273.46
HEILEMAN, JAMES		Invoice Amount:	\$4,748.00
JULY 2019 ELECTRICAL INSP PAY		Check Date:	08/07/2019
101-371-818.000	JULY 2019 ELEC INSP		4,748.00
JOHN HANCOCK LIFE INSURANCE CO.		Invoice Amount:	\$16,066.50
JOHN HANCOCK EMPLOYER PEN MATCH 8-2--19		Check Date:	08/07/2019
588-588-714.010	Friendship Station (Boyce)		236.36
101-171-714.010	Supervisor's Office		999.30
101-201-714.010	IT Services (Janks)		577.44
101-215-714.010	Clerk's Office		1,613.57

Charter Township of Plymouth

AP Invoice Listing - Board Report

VENDOR INFORMATION**INVOICE INFORMATION**

	101-253-714.010	Treasurer's Office	954.29
	101-305-714.010	Police Dept.	646.99
	101-325-714.010	Dispatch (Bonadeo)	294.19
	101-336-714.020	Fire Dept	4,194.47
	101-336-714.010	Fire (Admin) (Jowsey)	256.05
	101-371-714.010	Building Dept.	1,259.15
	101-265-714.010	Township Hall (Haack)	238.39
	592-172-714.010	Public Services (Kline, Latawiec, Martin)	837.23
	226-226-714.010	Solid Waste (Visel)	323.66
	592-291-714.040	DPW	2,625.12
	592-291-714.010	DPW (Fellrath & Hamann)	1,010.29
<hr/>			
JOHN HANCOCK LIFE INSURANCE CO.		Invoice Amount:	\$4,874.88
JOHN HANCOCK EMPLOYEE CONTRIB 8-2-19 (spr		Check Date:	08/07/2019
101-100-231.000	Employee Contribution (EEMBT)(EEVND)		4,874.88
<hr/>			
MUNSON, STEVE		Invoice Amount:	\$1,630.25
JULY 2019 PLUMBING INSP PAY		Check Date:	08/07/2019
101-371-818.000	JULY 2019 PAY		1,630.25
<hr/>			
NATIONWIDE RET SOL USCM/MIDWEST		Invoice Amount:	\$17,114.15
Nationwide - Contribs. for pay ending 7-28-19- sp		Check Date:	08/07/2019
101-100-239.000	Contributions for pay ending 7-28-19		17,114.15
<hr/>			
P.O.A.M. - PLYMOUTH TOWNSHIP		Invoice Amount:	\$2,017.64
POAM & Dispatch Union Dues -August 2019 (2 se		Check Date:	08/07/2019
101-100-232.010	POAM Union Dues		1,483.44
101-100-232.040	Dispatch Union Dues		534.20
<hr/>			
PLYMOUTH POSTMASTER		Invoice Amount:	\$1,200.00
Water Bill Postage - Permit #218 JULY 2019		Check Date:	08/07/2019
592-172-730.000	Permit #218 JULY 2019 Postage		1,200.00
<hr/>			
PLYMOUTH POSTMASTER		Invoice Amount:	\$1,200.00
Water Bill Postage - Permit #218 August 2019		Check Date:	08/07/2019
592-172-730.000	Permit #218 August 2019 Postage		1,200.00
<hr/>			
CHARTER TWSP OF PLYMOUTH		Invoice Amount:	\$12,217.98
Plymouth Township - Water/Sewer - AUGUST 20		Check Date:	08/07/2019
101-171-921.000	Supervisor		33.21
101-201-921.000	Information Services		17.77
101-209-921.000	Assessors		9.51
101-215-921.000	Clerk		28.86
101-253-921.000	Treasurer		12.05
101-265-854.000	Senior Center		57.03
101-305-921.000	Police		95.37
101-325-921.000	Communications/Dispatch		19.85
101-325-921.400	Lock Up		19.85
101-336-921.000	Fire		1,694.99
101-371-921.000	Building		20.91
101-371-921.500	Planning		11.71
101-691-921.000	Park		9,967.39
226-226-921.000	Solid Waste		2.75
592-172-921.000	Adm/Gen Expense		164.22
592-444-745.000	Power & Pumping		58.87
588-588-921.000	Friendship Station		3.64

91 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

TEAMSTER LOCAL # 214

Teamster Local #214 August 2019 (details attach

101-100-232.030	Bartlett, James	Invoice Amount:	\$499.00
101-100-232.030	Kitchen, Spencer	Check Date:	08/07/2019
101-100-232.030	Krueger, Randy		56.00
101-100-232.030	Melow, Steven		47.00
101-100-232.030	Nelson, David		59.00
101-100-232.030	Overaitis, Joseph		59.00
101-100-232.030	Pumphrey, Z		56.00
101-100-232.030	Scholten, James		56.00
101-100-232.030	Thomas, James		56.00
			54.00

TECHNICAL, PROFESSIONAL AND OFFICE-

TPOAM Union Deductions - August 2019

101-100-232.060	Bonadeo, Karen E.	Invoice Amount:	\$465.00
101-100-232.060	Bono, Jennifer A.	Check Date:	08/07/2019
101-100-232.060	Devoto, Claudia P.		31.00
101-100-232.060	Gordon, Cheryl		15.50
101-100-232.060	Haack, David		15.50
101-100-232.060	Jowsey, Nancy		31.00
101-100-232.060	Kline, Anne E.		31.00
101-100-232.060	Latawiec, Kelly		31.00
101-100-232.060	Leclair, Diane L.		31.00
101-100-232.060	MacDonald, Kenneth E.		31.00
101-100-232.060	Martin, Carol R.		31.00
101-100-232.060	Palmarчук, Cheri		31.00
101-100-232.060	Truesdell, Mary Ann		15.50
101-100-232.060	Visel, Sarah J.		31.00
101-100-232.060	Richardson, Mike		15.50
101-100-232.060	Geletzke, Alice		15.50
101-100-232.060	Goscicki, Jacob		15.50
101-100-232.060	Jefferson, Paula		31.00

VERIZON WIRELESS

August 2019 Wireless Billing Acct #1 - 585762923

592-172-853.000	DPW wireless devices	Invoice Amount:	\$1,012.19
101-201-853.000	Info services wireless devices	Check Date:	08/07/2019
101-336-853.000	Fire wireless devices		100.67
101-691-853.000	Park foreman wireless device		61.23
101-253-853.000	Treasurer Wireless Service		142.47
101-305-853.000	Police Dept. wireless service		50.62
101-371-853.000	Building Dept. Wireless Services		51.23
			359.22
			246.75

VERIZON WIRELESS

August 2019 Wireless Billing Acct #2 MI DEAL AC

592-291-853.000	DPW	Invoice Amount:	\$1,017.58
101-201-853.000	Info services wireless devices	Check Date:	08/07/2019
101-336-853.000	Fire wireless devices		499.65
101-691-853.000	Park foreman wireless device iPad		0.24
588-588-853.000	Friendship Station		200.05
101-325-853.000	Dispatch		40.01
226-226-853.000	Solid Waste - Sarah Visel		83.10
805-805-970.005	Sidewalk Inspec. I-Pad		104.51
			52.01
			38.01

WOW! BUSINESS

Police Dept. Service Chgs - July 2019 Acct. # 012

101-305-921.000	Police Dept. July 2019	Invoice Amount:	\$11.38
		Check Date:	08/07/2019
			11.38

92 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

Total Amount to be Disbursed:	\$83,846.76
-------------------------------	-------------

93 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

REVENUE 5/11/19

VENDOR INFORMATION

INVOICE INFORMATION

MODERN METHOD CONSTRUCTION INC			Invoice Amount:	\$1,000.00
BD Bond Refund			Check Date:	08/06/2019
	<i>701-100-202.701</i>	<i>BBD17-0047 - PB17-1002</i>		<i>1,000.00</i>
MODERN METHOD CONSTRUCTION INC			Invoice Amount:	\$3,000.00
BD Bond Refund			Check Date:	08/06/2019
	<i>701-100-202.701</i>	<i>BBD19-0002 - PB17-1002</i>		<i>3,000.00</i>
Ronnish Construction Group			Invoice Amount:	\$5,000.00
BD Bond Refund			Check Date:	08/06/2019
	<i>701-100-202.701</i>	<i>BP18-0021 - PB18-0297</i>		<i>5,000.00</i>
Cowdin remodeling Inc			Invoice Amount:	\$1,500.00
BD Bond Refund			Check Date:	08/06/2019
	<i>701-100-202.701</i>	<i>BP18-0027 - PB18-0594</i>		<i>1,500.00</i>
Jay-Bilt Construction LLC			Invoice Amount:	\$1,500.00
BD Bond Refund			Check Date:	08/06/2019
	<i>701-100-202.701</i>	<i>BP18-0041 - PB18-0891</i>		<i>1,500.00</i>
PCI Industries Inc			Invoice Amount:	\$2,000.00
BD Bond Refund			Check Date:	08/06/2019
	<i>701-100-202.701</i>	<i>BP19-0011 - PB19-0140</i>		<i>2,000.00</i>
BREMBO NORTH AMERICA, INC			Invoice Amount:	\$7,404.16
2019 SUM TAX DUP PYMT 78-008-01-0030-302			Check Date:	08/06/2019
	<i>703-000-202.000</i>	<i>ACCOUNTS PAYABLE</i>		<i>7,404.16</i>
Total Amount to be Disbursed:				\$21,404.16

94 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

WEST METRO/ACME GARAGE DOOR service date 5/24/19 invoice #75063 <i>592-172-776.000</i>	<i>Service date 5/24/19</i>	Invoice Amount: Check Date:	\$512.50 08/08/2019 <i>512.50</i>
ALLIE BROTHERS UNIFORMS uniforms for FF Roselle <i>101-336-758.000</i>	<i>uniforms</i>	Invoice Amount: Check Date:	\$451.92 08/08/2019 <i>451.92</i>
AMERICAN TEST CENTER INC. Ground Ladder annual testing <i>101-336-851.000</i>	<i>Ground ladder tested 7/9/19</i>	Invoice Amount: Check Date:	\$430.00 08/08/2019 <i>430.00</i>
APOLLO FIRE EQUIPMENT gloves and boots <i>101-336-758.100</i> <i>101-336-758.100</i> <i>101-336-758.100</i> <i>101-336-758.100</i>	<i>14" leather boots</i> <i>Gloves Lg</i> <i>Gloves X Lg</i> <i>UPS</i>	Invoice Amount: Check Date:	\$571.23 08/08/2019 <i>402.00</i> <i>78.00</i> <i>78.00</i> <i>13.23</i>
APOLLO FIRE EQUIPMENT extrication gloves lg <i>101-336-758.100</i>	<i>Lg Ext Gloves</i>	Invoice Amount: Check Date:	\$66.42 08/08/2019 <i>66.42</i>
ASSOCIATED NEWSPAPERS OF MICHIGAN Litchfield Dr (Plymouth Notch) S.A.D. <i>101-215-813.000</i>	<i>Litchfield S.A.D.</i>	Invoice Amount: Check Date:	\$58.23 08/08/2019 <i>58.23</i>
ASSOCIATED NEWSPAPERS OF MICHIGAN Zoning Board of Appeals August 1, 2019 meeting <i>101-215-813.000</i>	<i>Aug 1 2019 ZBA mtg</i>	Invoice Amount: Check Date:	\$23.20 08/08/2019 <i>23.20</i>
Cereal City Auto Parts Parks - Inv. # 700766 -- Details attached <i>101-691-931.000</i>	<i>Parks - Inv. 700766</i>	Invoice Amount: Check Date:	\$107.58 08/08/2019 <i>107.58</i>
B & R JANITORIAL SUPPLY Bldg supplies <i>101-336-776.000</i> <i>101-336-776.000</i> <i>101-336-776.000</i> <i>101-336-776.000</i> <i>101-336-776.000</i> <i>101-336-776.000</i> <i>101-336-776.000</i> <i>101-336-776.000</i> <i>101-336-776.000</i> <i>101-336-776.000</i> <i>101-336-776.000</i> <i>101-336-776.000</i>	<i>C fold towels</i> <i>Husky 320</i> <i>Soyl Refill</i> <i>purex laundry liquid</i> <i>Lid pump 5 gal</i> <i>Bleach</i> <i>shout</i> <i>2 ply towels</i> <i>Lemon dish soap</i> <i>Sponge scrubber</i> <i>cascade</i> <i>paper towels</i>	Invoice Amount: Check Date:	\$1,463.80 08/08/2019 <i>210.78</i> <i>11.34</i> <i>199.44</i> <i>259.29</i> <i>12.78</i> <i>11.34</i> <i>199.44</i> <i>82.62</i> <i>44.13</i> <i>73.20</i> <i>245.50</i> <i>113.94</i>
B & R JANITORIAL SUPPLY Bldg supplies <i>101-336-776.000</i> <i>101-336-776.000</i>	<i>Angel Soft tissue</i> <i>Lemon drop bag-in-box</i>	Invoice Amount: Check Date:	\$454.11 08/08/2019 <i>256.08</i> <i>198.03</i>
B & R JANITORIAL SUPPLY JANITORIAL SUPPLY		Invoice Amount: Check Date:	\$170.44 08/08/2019

95 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

	101-265-776.000	INVOICE 186536	76.44
	101-265-858.000	INVOICE 186536	5.00
	101-305-776.000	INVOICE 186536	43.00
	101-325-727.000	INVOICE 186536	17.00
	101-336-776.000	INVOICE 186536	3.00
	592-172-776.000	INVOICE 186536	26.00
B S & A SOFTWARE		Invoice Amount:	\$825.00
Software field inspection implementation &project		Check Date:	08/08/2019
	101-371-978.000	INVOICE 121945	825.00
BADER & SONS CO.		Invoice Amount:	\$192.81
Inv. # 764647 Gator repair items and weed whip		Check Date:	08/08/2019
	101-691-863.000	Items for Gator Repair & weed whip heads	192.81
BADER & SONS CO.		Invoice Amount:	\$830.32
Inv. # 771919 Elec. Ignition Mod. & steering rack		Check Date:	08/08/2019
	101-691-863.000	Module (Ignition)	305.43
	101-691-853.000	Steering Rack	524.89
BATTERIES PLUS BULBS		Invoice Amount:	\$73.90
12 V lead batteries		Check Date:	08/08/2019
	101-336-863.000	12V lead batteries	73.90
BATTERIES PLUS BULBS		Invoice Amount:	\$84.95
#P16945713 REPLACEMENT BATTERY FOR HOND		Check Date:	08/08/2019
	592-172-776.000	CYLAZ14SXTA	84.95
BATTERY SOLUTIONS, LLC.		Invoice Amount:	\$109.95
Battery Recycle		Check Date:	08/08/2019
	226-226-810.000	iRecycle - Filled Pail #A425266_07/23/19	109.95
BLACKWELL FORD INC.		Invoice Amount:	\$1,230.89
r3 VALVE, SHAFT, SEALS, REPAIR WATER LEAK		Check Date:	08/08/2019
	101-336-863.000	R3 VALVE, SHAFT, SEALS, REP WTR LEAK	1,230.89
BLACKWELL FORD INC.		Invoice Amount:	\$45.55
Invoice #351616 OIL CHANGE & INSPECTION 7/		Check Date:	08/08/2019
	592-291-863.000	PARTS & LABOR	45.55
BLACKWELL FORD INC.		Invoice Amount:	\$231.03
HEAT REPAIR FORD F-150		Check Date:	08/08/2019
	101-371-863.000	INVOICE 348543	231.03
BLOOM ROOFING SYSTEMS INC.		Invoice Amount:	\$570.00
service work sta#2		Check Date:	08/08/2019
	101-336-776.000	Service work - Sta#a	570.00
CDW GOVERNMENT INC		Invoice Amount:	\$4,785.00
Renewal - Cisco Umbrella Web Filter PD and Admi		Check Date:	08/08/2019
	101-305-851.000	Umbrella Pro-UMB-PROFESSIONAL - PD	1,305.00
	101-290-941.000	Umbrella Pro-UMB-PROFESSIONAL - Admin	3,480.00
CDW GOVERNMENT INC		Invoice Amount:	\$8,639.29
Microsoft SQL Licensing Upgrade - MiDeal - Quote		Check Date:	08/08/2019
	101-201-978.000	MS SQL Server Stndrd Lic with SA	1,058.49
	101-201-978.000	MS SQL Server User CAL with SA	7,580.80

96 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

CDW GOVERNMENT INC			Invoice Amount:	\$1,580.00
Police Data Switch (2) Support Renewal-Quote KS			Check Date:	08/08/2019
101-290-941.000	Cisco Smartnet-CON-SNT-1-5K (2 switches)			1,580.00
CDW GOVERNMENT INC			Invoice Amount:	\$49.65
Adapter cables - Quote QSZQ693			Check Date:	08/08/2019
101-371-727.000	Displayport to HDMI adapter- 1614053			17.05
101-201-727.000	Displayport to Multi adapter - 3972130			32.60
CDW GOVERNMENT INC			Invoice Amount:	\$435.00
Fire Data Switch (1) Support Renewal-Quote KSV			Check Date:	08/08/2019
101-290-941.000	Cisco Smartnet CON-SNT-1-1K			435.00
CODE SAVVY CONSULTANTS LLC			Invoice Amount:	\$250.00
SPRINKLER SYSTEM			Check Date:	08/08/2019
101-371-818.000	POWERS AND SONS INVOICE 1522			250.00
Core & Main			Invoice Amount:	\$551.27
#K867704 TAPPING MACHINE 7/22/19			Check Date:	08/08/2019
592-291-935.000	1" COMB DRILL TAP			302.92
592-291-935.000	3/4 CC COMB DRILL TAP			228.16
592-291-935.000	CUTTING GREASE 1LB			20.19
CORRIGAN OIL COMPANY			Invoice Amount:	\$2,312.60
Fuel #6857320 7/23/19			Check Date:	08/08/2019
592-291-863.000	Dyed Ultra Low Sulfur #2 Mix			1,036.58
592-291-863.000	Fuel Tax Recap			11.00
592-291-863.000	Environmental Fee			6.95
592-291-863.000	GE87 GAS-ETHANOL			1,258.07
DANULOFF, LYLE D., PHD.			Invoice Amount:	\$600.00
Phsy. Eval of Aaron Bigger 7/15/19			Check Date:	08/08/2019
101-336-963.000	Psychological Eval of FF Aaron Bigger			600.00
DPW & SON, LLC			Invoice Amount:	\$6,105.00
Water Taps at Tuscany and Emrick #50367 7/21/			Check Date:	08/08/2019
592-291-935.000	13697 EMRICK DR 1" XTRA LONG			1,705.00
592-291-935.000	13681 EMRICK DR 1" LONG TAP			1,800.00
592-291-935.000	11842 TUSCANY CT 1" SHORT TAP			800.00
592-291-935.000	11841 TUSCANY CT 1" LONG TAP			1,000.00
592-291-935.000	11708 TUSCANY 1" SHORT TAP			800.00
JACK DOHENY COMPANIES INC			Invoice Amount:	\$207.15
7/11/19 #A24649			Check Date:	08/08/2019
592-291-851.000	PARTS			207.15
EASTERN FIRE EQUIPMENT SERVICES			Invoice Amount:	\$129.49
repair and sharpen chain			Check Date:	08/08/2019
101-336-851.000	Repair and sharpen chain			129.49
EASTERN FIRE EQUIPMENT SERVICES			Invoice Amount:	\$36.69
truck parks			Check Date:	08/08/2019
101-336-863.000	Pre Wrap			22.83
101-336-863.000	Shipping			13.86
ETNA SUPPLY			Invoice Amount:	\$330.00
Parts for Curb Box's			Check Date:	08/08/2019

97 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

	592-291-935.000	MUELLER H15204N 3/4 FLR X FLR ORISEAL CU	330.00
WADE-TRIM OPERATIONS SERVICES			Invoice Amount:
SAD Deer Creek - Const Admin			\$1,825.00
	805-805-970.290	SAD Deer Creek - Const Admin	Check Date:
			08/08/2019
			1,825.00
WADE-TRIM OPERATIONS SERVICES			Invoice Amount:
Construction admin Hunters Creek SAD			\$405.00
	805-805-970.210	Prof Services 4/3/2019 6/30/2019	Check Date:
			08/08/2019
			405.00
WADE-TRIM OPERATIONS SERVICES			Invoice Amount:
Construction Admin - Ridgewood Hills			\$945.00
	805-805-970.340	Construction Admin - Ridgewood Hills	Check Date:
			08/08/2019
			945.00
FELLRATH, PATRICK			Invoice Amount:
Mileage Reimbursement July - 19			\$70.76
	592-291-863.000	Mileage Reimbursement July - 19	Check Date:
			08/08/2019
			70.76
GRAYBAR ELECTRIC			Invoice Amount:
ELECTRICAL CONTROL			\$98.63
	101-265-776.000	INVOICE 9310969750	Check Date:
			08/08/2019
			98.63
Great Lakes Ace Hardware			Invoice Amount:
BLANKET PO 2019 (July 2019 invoice attached (\$			\$59.98
	101-691-931.000	BLANKET PO 2019	Check Date:
			08/08/2019
			59.98
GUARDIAN ALARM CO			Invoice Amount:
SENIOR BLDG ALARM - 8/1/19--10/31/19 - Inv. #			\$191.40
	101-265-858.000	INVOICE 20373110	Check Date:
			08/08/2019
			191.40
HALT FIRE INC			Invoice Amount:
U3 replace auto eject			\$679.38
	101-336-863.000	U3 replace auto eject	Check Date:
			08/08/2019
			679.38
HALT FIRE INC			Invoice Amount:
R2 repaired charger to cot			\$450.00
	101-336-863.000	R2 repaired charger to cot.	Check Date:
			08/08/2019
			450.00
HALT FIRE INC			Invoice Amount:
E4 pedal repair			\$142.50
	101-336-863.000	E4 Pedal Repair	Check Date:
			08/08/2019
			142.50
HORTON PLUMBING			Invoice Amount:
Sta#2 clean out sewer			\$175.00
	101-336-776.000	Sta#2 clean sewer	Check Date:
			08/08/2019
			175.00
IRON MOUNTAIN			Invoice Amount:
Offsite Storage - Aug 2019			\$231.82
	101-215-818.000	Offsite Storage-Aug 2019	Check Date:
			08/08/2019
			231.82
J & B MEDICAL SUPPLY INC			Invoice Amount:
medical supplies			\$372.80
	101-336-836.000	Exam Gloves x lg	Check Date:
	101-336-836.000	stifneck collar	08/08/2019
			152.60
			220.20
J & B MEDICAL SUPPLY INC			Invoice Amount:
Medical Equipment			\$1,233.63
			Check Date:
			08/08/2019

98 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

	101-336-836.000	PRO-2 CADDY	74.09
	101-336-836.000	Stethoscopes Pediatric	100.51
	101-336-836.000	Medic-Kit	148.28
	101-336-836.000	Res-Q-Vac	170.44
	101-336-836.000	Airway Pack	143.65
	101-336-836.000	Intubation Bag	86.66
	101-336-836.000	Professional ALS Bag	510.00
<hr/>			
KNIGHT TECHNOLOGY GROUP, INC.		Invoice Amount:	\$150.00
Firewall Monitoring Aug 2019 - Invoice# 13566		Check Date:	08/08/2019
	101-290-941.000	Firewall Monitoring - Aug 2019	150.00
<hr/>			
KNIGHT TECHNOLOGY GROUP, INC.		Invoice Amount:	\$600.00
Tech Support - Exchange Server Maintenance - In		Check Date:	08/08/2019
	101-290-941.000	Tech Support- Exchange Maintenance	600.00
<hr/>			
KONICA MINOLTA BUSINESS SOLUTIONS		Invoice Amount:	\$425.91
Copy charges - July 2019		Check Date:	08/08/2019
	101-371-727.000	Color Copies - Bldg	152.46
	101-371-727.000	B&W Copies - Bldg	10.21
	101-215-727.000	Color Copies - Clerk	255.53
	101-215-727.000	B&W Copies - Clerk	7.71
<hr/>			
KSS Enterprises		Invoice Amount:	\$749.04
BLANKET PO 2019 (inv. 1168472 - added 7/29/19)		Check Date:	08/08/2019
	101-691-931.000	BLANKET PO 2019	749.04
<hr/>			
Kushner, Cynthia		Invoice Amount:	\$5,325.00
Contractual Services for July 2019 (July 31, 20		Check Date:	08/08/2019
	101-215-818.000	1:00 pm - 6:00 pm 7/3/19	750.00
	101-215-818.000	1:30 pm - 5:00 pm 7/5/19	525.00
	101-215-818.000	1:30 pm - 7:00 pm 7/8/19	825.00
	101-215-818.000	1:30 pm - 7:30 pm 7/12/19	900.00
	101-215-818.000	1:30 pm - 5:30 pm 7/18/19	600.00
	101-215-818.000	1:30 pm - 6:00 pm 7/19/19	675.00
	101-215-818.000	1:00 pm - 7:00 pm 7/22/19	900.00
	101-215-818.000	Phone Call 7/25/19	75.00
	101-215-818.000	Phone Call 7/31/19	75.00
<hr/>			
M E R S		Invoice Amount:	\$119,135.26
MERS - July 2019 Employee AND Employer		Check Date:	08/08/2019
	101-100-231.030	COAM - Employee Contrib.	3,322.88
	101-100-231.030	POAM - Employee Contrib	9,635.24
	101-100-231.020	FIRE - Employee Contrib.	8,856.62
	101-100-231.050	DISPATCH - Employee Contrib	3,256.05
	101-305-714.030	COAM - Employer Contrib	15,038.47
	101-305-714.030	POAM - Employer Contrib	24,398.00
	101-336-714.020	FIRE - Employer Contrib	47,349.00
	101-325-714.050	DISPATCH - Employer Contrib	7,279.00
<hr/>			
MAPLES ENVIRONMENTAL PEST CONTROL		Invoice Amount:	\$150.00
PEST CONTROL		Check Date:	08/08/2019
	101-336-776.000	FIRE DEPT STATION ONE	150.00
<hr/>			
MAPLES ENVIRONMENTAL PEST CONTROL		Invoice Amount:	\$185.00
PEST CONTROL		Check Date:	08/08/2019
	101-265-776.000	TOWN HALL	185.00

99 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

MAPLES ENVIRONMENTAL PEST CONTROL PEST CONTROL <i>101-305-776.000</i>	<i>POLICE DEPT JULY 24</i>	Invoice Amount: Check Date:	\$185.00 08/08/2019 <i>185.00</i>
MARK'S OUTDOOR POWER EQUIPMENT GAS FOR Chainsaws, Weedwhip, Backpack Blower <i>592-172-776.000</i>	<i>OPTI-2 25 GAL MIX</i>	Invoice Amount: Check Date:	\$51.27 08/08/2019 <i>51.27</i>
MICHIGAN CAT Parts/Repair/Labor for Caterpillar 420D A #pd100 <i>592-291-851.000</i>	<i>Parts and labor, preventive maintenance</i>	Invoice Amount: Check Date:	\$99.24 08/08/2019 <i>99.24</i>
MICHIGAN ASSOCIATION OF PLANNING Planning Commission Annual Dues 7-1-19 - 6/30/ <i>101-801-861.000</i>	<i>Annual Membership Dues</i>	Invoice Amount: Check Date:	\$675.00 08/08/2019 <i>675.00</i>
Ferguson Waterworks WATER METER PARTS <i>592-172-780.000</i> <i>592-172-780.000</i>	<i>3 T/F VLV SEAL</i> <i>3 MTR REPAIR FEE 3" COMPOUND METER TES</i>	Invoice Amount: Check Date:	\$254.04 08/08/2019 <i>4.04</i> <i>250.00</i>
MICHIGAN LINEN SERVICE Uniforms 7/19/19 #410099 <i>592-172-758.000</i>	<i>7/19/19</i>	Invoice Amount: Check Date:	\$84.35 08/08/2019 <i>84.35</i>
MICHIGAN LINEN SERVICE Uniforms 7/26/19 #410509 <i>592-172-758.000</i>	<i>7/26/19</i>	Invoice Amount: Check Date:	\$84.35 08/08/2019 <i>84.35</i>
MIKE'S DOOR SERVICE Door repairs Sta#2 <i>101-336-776.000</i>	<i>Sta#2 Door repairs</i>	Invoice Amount: Check Date:	\$5,223.63 08/08/2019 <i>5,223.63</i>
MIKE'S DOOR SERVICE repair door spring Sta#2 <i>101-336-776.000</i>	<i>Sta#2 Repair Door Spring</i>	Invoice Amount: Check Date:	\$175.00 08/08/2019 <i>175.00</i>
MIKE'S DOOR SERVICE Sta#2 new window units <i>101-336-776.000</i>	<i>Window uits installed</i>	Invoice Amount: Check Date:	\$335.00 08/08/2019 <i>335.00</i>
MIKE'S DOOR SERVICE service caall door sta#2 <i>101-336-776.000</i>	<i>Service call door Sta#2</i>	Invoice Amount: Check Date:	\$245.00 08/08/2019 <i>245.00</i>
MOUNTAIN TOP TREE SERVICE INC EMERGENCY CALL OUT. WATER MAIN BREAK AT <i>592-291-932.000</i>	<i>7/16/19</i>	Invoice Amount: Check Date:	\$1,050.00 08/08/2019 <i>1,050.00</i>
NORTH BREATHING AIR, LLC Sta#3 compressor maint <i>101-336-776.000</i>	<i>Compressor Maintenance Sta#3</i>	Invoice Amount: Check Date:	\$540.00 08/08/2019 <i>540.00</i>
NORTHERN LAKE SERVICE, INC. PLYMOUTH TWP CONTROL SYSTEM SERVICE 7/1 <i>592-172-973.010</i>	<i>RESTORATION OF DESK LOCK APP ON SERVER</i>	Invoice Amount: Check Date:	\$140.00 08/08/2019 <i>140.00</i>

100 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

OFFICE DEPOT			Invoice Amount:	\$10.78
Office Supplies July 2019			Check Date:	08/08/2019
	592-172-727.000	3-hole punch		10.78
OFFICE DEPOT			Invoice Amount:	\$42.78
Office Supplies July 2019			Check Date:	08/08/2019
	592-172-727.000	USB Drive		42.78
OFFICE DEPOT			Invoice Amount:	\$199.61
Office Supplies July 2019			Check Date:	08/08/2019
	226-226-727.000	Vinyl Gloves Powder-free		3.54
	592-172-727.000	Tab Dividers		4.16
	101-171-727.000	Paper		34.01
	101-201-727.000	Paper		6.48
	101-400-727.000	Paper		24.29
	226-226-727.000	Paper		8.10
	592-172-727.000	Paper		89.08
	592-172-727.000	Writing Pads		13.04
	592-172-727.000	Binders		8.80
	592-172-727.000	Pens		8.11
OFFICE DEPOT			Invoice Amount:	\$40.12
office supplies			Check Date:	08/08/2019
	101-336-727.000	Pilot G-2 pens		22.94
	101-336-727.000	dry erase cleaner		6.38
	101-336-727.000	3X3 pop up notes		4.95
	101-336-727.000	Lg binder clips		1.46
	101-336-727.000	1-1/2" x 2 post it notes		4.39
OAKLAND COUNTY			Invoice Amount:	\$2,038.04
Software and Mant fees for CLEMIS APR_JUN			Check Date:	08/08/2019
	101-336-824.000	Qtrly SW and Maint fees CLEMIS APR-JUN		2,038.04
PLYMOUTH-CANTON COMMUNITY SCHOOLS			Invoice Amount:	\$8,827.07
Share of 2018-19 School Year Crossing Guards - I			Check Date:	08/08/2019
	101-315-950.000	.50 @ 17,654.1300		8,827.07
PRIORITY ONE EMERGENCY			Invoice Amount:	\$63.98
Mic Clip			Check Date:	08/08/2019
	101-336-863.000	Mic Clip		63.98
RAINEY, PAUL			Invoice Amount:	\$231.00
Paul Rainey - Reimbursements for Dental and Visi			Check Date:	08/08/2019
	101-336-714.500	Healthcare Reimbursement (attached)		231.00
RELIABLE LANDSCAPING INC.			Invoice Amount:	\$63.00
Restorations #64712 7/15/19			Check Date:	08/08/2019
	592-291-932.000	3 YARDS OF TOPSOIL		63.00
SPALDING DEDECKER ASSOCIATES, INC.			Invoice Amount:	\$20,952.50
Spalding DeDecker - July 2019 Invoice (minus Bui			Check Date:	08/08/2019
	101-371-818.500	#80310 - Monthly Retainer		500.00
	592-443-939.000	#80284 -Water Tower Cathodic Protection		154.75
	592-172-820.000	#80296- Miss Dig Design Ticket As-Built		3,222.50
	101-446-818.000	#80289-2019 Sidewalk Assessment		3,592.50
	592-172-820.000	#80291 - Ply. Twp. GIS		3,105.00
	101-691-978.000	#80292 - -Ply. Twp. Park Pathway		3,280.00

101 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

	101-290-818.000	#80297 - Comcast #JB0000016336 - DPW	423.50
	101-290-818.000	80298 - 123NET to 15180 Keel - DPW	281.00
	101-290-818.000	80299 - Comcast #JB0000042127-15075 Beck	714.50
	101-290-818.000	80300-Comcast-#JB0000057270-40070 School	490.50
	101-290-818.000	80301-Comcast #JB0000022368-39405 Plymou	675.25
	101-290-818.000	80302-Comcast#JB0000057927B-44525 Ann Ar	654.00
	101-290-818.000	80303-Comcast-#JB0000061527-Vintage Lane	498.50
	101-290-818.000	80304-Comcast-#JB0000071677B-13000 Eckle	498.50
	101-290-818.000	80305-Comcast #JB0000077388-41304 Concep	444.50
	101-851-971.000	80288-CDBG Program	2,417.50
<hr/>			
CBTS, LLC		Invoice Amount:	\$865.38
Phone System Support - Test and Cut to new ATT		Check Date:	08/08/2019
	101-290-941.000	Test and Cut to new ATT IPFlex Circuit	865.38
<hr/>			
SUPERIOR MEDICAL WASTE		Invoice Amount:	\$180.00
MEDICAL WASTE PICK UP STA#1 & STA#3		Check Date:	08/08/2019
	101-336-836.000	MEDICAL WASTE PICK UP	180.00
<hr/>			
TARGET SOLUTIONS LEARNING, LLC		Invoice Amount:	\$2,598.00
on-line training maint & memb fee		Check Date:	08/08/2019
	101-336-403.000	Annual On-line train.member & maint fees	2,598.00
<hr/>			
Terry Lovell DBA TNT LAWN SERVICE		Invoice Amount:	\$2,850.00
Invoice 138929 - Park Services June 2019 (detail		Check Date:	08/08/2019
	101-691-818.000	Lawn Services - June 2019 - Parks	2,850.00
<hr/>			
Terry Lovell DBA TNT LAWN SERVICE		Invoice Amount:	\$2,875.00
Invoice 238865- Park Services July 2019 (details		Check Date:	08/08/2019
	101-691-818.000	Lawn Services - June 2019 - Parks	2,875.00
<hr/>			
WAYNE COUNTY		Invoice Amount:	\$221.37
6/19 Traffic Signal Energy Invoice # 1009714		Check Date:	08/08/2019
	101-446-920.000	6/19 Traffic Signal Energy Inv # 1009714	221.37
<hr/>			
WCA ASSESSING		Invoice Amount:	\$23,664.25
Appraisal Services Rendered -August 2019		Check Date:	08/08/2019
	101-209-818.000	Appraisal Services Rendered (Contract)	23,507.58
	101-209-818.000	Co-Star Services	156.67
<hr/>			
Great Lakes Water Authority		Invoice Amount:	\$365,248.33
GLWA - June 2019 Water Usage Charges		Check Date:	08/08/2019
	592-441-741.000	GLWA - June 2019 Water Usage	365,248.33
<hr/>			
Dell Financial Services		Invoice Amount:	\$769.64
Computer Leases - 9/1/19- --11/30/19 - Fire & DP		Check Date:	08/08/2019
	101-336-978.500	Fire Dept.. Computer (Lease-Qtly)	299.32
	592-172-978.500	DPW	427.60
	592-172-978.500	DPW (rounding adjust)	42.72
<hr/>			
Dell Financial Services		Invoice Amount:	\$472.05
Computer Leases - 9/1/19-11/30/19 - PD (16)		Check Date:	08/08/2019
	267-300-978.500	Police Dept.. Computer (Lease-Qtly)	472.00
	267-300-978.500	.05 adjustment (rounding)	0.05
<hr/>			
Dell Financial Services		Invoice Amount:	\$513.08
Computer Leases - 9/1/19--11/30/19 (Treasurer,		Check Date:	08/08/2019
	101-253-978.500	Treasurer Dept. Computer (Lease-Qtly)	171.00

102 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

	101-215-978.500	Clerk Dept. Computer (Lease-Qtly)	299.32
	101-371-978.500	Building Dept. Computer (Lease=Qt;y)	42.76
UPRIGHT FENCE		Invoice Amount:	\$30.00
REFUND OF PERMIT		Check Date:	08/08/2019
	101-371-965.000	PB19-0676 11162 TERRY	30.00
AFM HEATING & COOLING SERVICES LLC		Invoice Amount:	\$45.00
REFUND OF PERMIT		Check Date:	08/08/2019
	101-371-965.000	PM19-0308 46534 BURNING TREE LN	45.00
Total Amount to be Disbursed:			\$610,058.94

103 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

35TH DISTRICT COURT			Invoice Amount:	\$1,318.00
BOND RECEIPT 07/29/2019			Check Date:	08/02/2019
	702-100-087.000	8063		500.00
	702-100-087.000	8064		300.00
	702-100-087.000	8065		218.00
	702-100-087.000	8066		300.00
35TH DISTRICT COURT			Invoice Amount:	\$700.00
BOND RECEIPT 07/16/2019			Check Date:	08/02/2019
	702-100-087.000	8055		700.00
35TH DISTRICT COURT			Invoice Amount:	\$800.00
BOND RECEIPT 07/22/2019			Check Date:	08/02/2019
	702-100-087.000	8057		500.00
	702-100-087.000	8058		300.00
35TH DISTRICT COURT			Invoice Amount:	\$70.00
BOND RECEIPT 07/23/2019			Check Date:	08/02/2019
	702-100-087.000	8060		70.00
35TH DISTRICT COURT			Invoice Amount:	\$300.00
BOND RECEIPT 07/24/2019			Check Date:	08/02/2019
	702-100-087.000	8061		300.00
Total Amount to be Disbursed:				\$3,188.00

104 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

RETURNS 11/11/11

VENDOR INFORMATION

INVOICE INFORMATION

SPALDING DEDECKER ASSOCIATES, INC.			Invoice Amount:	\$1,363.00
BD Bond Refund			Check Date:	08/04/2019
	701-100-202.701	BE18-0021		1,363.00
SPALDING DEDECKER ASSOCIATES, INC.			Invoice Amount:	\$720.00
BD Bond Refund			Check Date:	08/04/2019
	701-100-202.701	BE18-0007		720.00
SPALDING DEDECKER ASSOCIATES, INC.			Invoice Amount:	\$1,080.25
BD Bond Refund			Check Date:	08/04/2019
	701-100-202.701	BE18-0018		1,080.25
SPALDING DEDECKER ASSOCIATES, INC.			Invoice Amount:	\$1,146.00
BD Bond Refund			Check Date:	08/04/2019
	701-100-202.701	BE18-0053		1,146.00
SPALDING DEDECKER ASSOCIATES, INC.			Invoice Amount:	\$3,833.25
BD Bond Refund			Check Date:	08/04/2019
	701-100-202.701	BE18-0026		3,833.25
SPALDING DEDECKER ASSOCIATES, INC.			Invoice Amount:	\$140.00
BD Bond Refund			Check Date:	08/04/2019
	701-100-202.701	BE18-0023		140.00
SPALDING DEDECKER ASSOCIATES, INC.			Invoice Amount:	\$1,709.25
BD Bond Refund			Check Date:	08/04/2019
	701-100-202.701	BE18-0020		1,709.25
SPALDING DEDECKER ASSOCIATES, INC.			Invoice Amount:	\$5,526.00
BD Bond Refund			Check Date:	08/04/2019
	701-100-202.701	BE18-0028		5,526.00
SPALDING DEDECKER ASSOCIATES, INC.			Invoice Amount:	\$607.50
BD Bond Refund			Check Date:	08/04/2019
	701-100-202.701	BE18-0006		607.50
SPALDING DEDECKER ASSOCIATES, INC.			Invoice Amount:	\$6,452.75
BD Bond Refund			Check Date:	08/04/2019
	701-100-202.701	BE19-0004		6,452.75
SPALDING DEDECKER ASSOCIATES, INC.			Invoice Amount:	\$2,659.00
BD Bond Refund			Check Date:	08/04/2019
	701-100-202.701	BE19-0008		2,659.00
SPALDING DEDECKER ASSOCIATES, INC.			Invoice Amount:	\$2,110.00
BD Bond Refund			Check Date:	08/04/2019
	701-100-202.701	BPZ19-0006 - PB19-0322		2,110.00
SPALDING DEDECKER ASSOCIATES, INC.			Invoice Amount:	\$2,071.00
BD Bond Refund			Check Date:	08/04/2019
	701-100-202.701	BE19-0002		2,071.00
SPALDING DEDECKER ASSOCIATES, INC.			Invoice Amount:	\$3,755.50
BD Bond Refund			Check Date:	08/04/2019
	701-100-202.701	BE19-0006		3,755.50

105 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

VENDOR INFORMATION**INVOICE INFORMATION**

SPALDING DEDECKER ASSOCIATES, INC.			Invoice Amount:	\$726.00
BD Bond Refund			Check Date:	08/04/2019
	701-100-202.701	BE18-0021		726.00
Sole Construction Inc			Invoice Amount:	\$600.00
BD Bond Refund			Check Date:	08/04/2019
	701-100-202.701	BBD19-0010 - PSW19-0026		600.00
LOC PERFORMANCE PRODUCTS INC			Invoice Amount:	\$12,824.78
BD Bond Refund			Check Date:	08/04/2019
	701-100-202.701	BE18-0018		12,824.78
Lakeshore Contracting Services LLC			Invoice Amount:	\$200.00
BD Bond Refund			Check Date:	08/04/2019
	701-100-202.701	BBD19-0005 - PSW19-0014		200.00
Total Amount to be Disbursed:				\$47,524.28

106 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

weeey 11-11-11

VENDOR INFORMATION

INVOICE INFORMATION

A T & T		Invoice Amount:	\$698.93
AT&T - Telephone Allocation July 2019 - 50MB 83		Check Date:	08/01/2019
101-201-853.000	Information Services		47.79
101-209-853.000	Assessing		28.54
101-371-853.000	Building		79.55
101-336-853.000	Fire		125.58
101-305-853.000	Police		127.22
101-171-853.000	Supervisor		74.38
101-253-853.000	Treasurer		63.45
101-215-853.000	Clerk		37.06
101-371-853.500	Community Development		29.61
101-325-853.000	Dispatch		47.86
101-265-854.000	Water/Sewer (Util)		11.36
101-691-853.000	Park		8.90
592-172-853.000	Gen Expense Tel		17.63
A T & T		Invoice Amount:	\$823.54
AT&T - Telephone Allocation July 2019 - IP FLEX		Check Date:	08/01/2019
101-201-853.000	Information Services		56.32
101-209-853.000	Assessing		33.63
101-371-853.000	Building		93.74
101-336-853.000	Fire		147.97
101-305-853.000	Police		149.90
101-171-853.000	Supervisor		87.64
101-253-853.000	Treasurer		74.77
101-215-853.000	Clerk		43.67
101-371-853.500	Community Development		34.89
101-325-853.000	Dispatch		56.39
101-265-854.000	Water/Sewer (Util)		13.39
101-691-853.000	Park		10.49
592-172-853.000	Gen Expense Tel		20.74
ADP INC		Invoice Amount:	\$3,871.15
ADP EnterpriseTime & Workforce Now & Payroll S		Check Date:	08/01/2019
101-290-941.000	Enterprise eTime		2,304.45
101-290-941.000	Workforce Now		684.95
101-290-941.000	Payroll Services		881.75
BASIC		Invoice Amount:	\$60.00
Monthly Fee for COBRA Administration (per Perso		Check Date:	08/01/2019
101-290-818.000	Mthly Fee for COBRA (per person)		60.00
COMCAST		Invoice Amount:	\$166.85
Internet - July 2019 Acct 8529 10 216 147285		Check Date:	08/01/2019
101-290-941.000	July 2019 Internet (Gen)		166.85
CONSUMERS ENERGY		Invoice Amount:	\$113.60
Monthly Chgs - August 2019 DPW ONLY		Check Date:	08/01/2019
592-172-921.000	DPW-ACCT. # 1000-2645-6283		95.23
592-172-921.000	DPW - ACCT. 3 1000-2645-6408		18.37
CONSUMERS ENERGY		Invoice Amount:	\$75.66
Monthly Charges - July 2019 (details below)		Check Date:	08/01/2019
101-265-854.000	Township Hall - 1000 257103478		18.45
588-588-921.000	Friendship Station 1000 2571-3478		1.18
101-691-921.000	Twp. Park 1000 257103262		(1.17)
101-336-921.000	Fire Station #2 - 1000 2571-3403		57.20

107 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

DTE ENERGY			Invoice Amount:	\$380.22
Baseball Diamonds June 2019-- 9100-157-6877-3			Check Date:	08/01/2019
	101-691-921.000	Baseball Diamonds		380.22
DTE ENERGY			Invoice Amount:	\$26.42
DTE Service Miller Park 2nd Qtr. 2019 - 9100-055			Check Date:	08/01/2019
	101-691-921.000	Miller Park Electric 2nd Qtr. 2019		26.42
HONKE, ANITA			Invoice Amount:	\$135.50
Medicare Part B - August 2019			Check Date:	08/01/2019
	101-336-714.000	Medicare Part B August 2019		135.50
KNUPP, LINDA			Invoice Amount:	\$135.50
Medicare Part B August 2019			Check Date:	08/01/2019
	101-336-714.500	Medicare Part B - August 2019		135.50
MAAS, CARLAS			Invoice Amount:	\$176.20
Medicare Part B August 2019			Check Date:	08/01/2019
	101-336-714.000	Medicare Part B - August 2019		176.20
A T & T LONG DISTANCE			Invoice Amount:	\$27.47
Long Distance Allocation June 2019			Check Date:	08/01/2019
	101-201-853.000	-info services		1.88
	101-209-853.000	Assessing		1.12
	101-371-853.000	Building		3.13
	101-336-853.000	Fire		4.94
	101-171-853.000	Supervisor		2.92
	101-253-853.000	Treasurer		2.49
	101-215-853.000	Clerk		1.46
	101-371-853.500	Community Development (Planning)		1.16
	101-325-853.000	Dispatch		1.88
	101-265-854.000	Township Hall		0.45
	101-691-853.000	Park		0.35
	592-172-853.000	DPW		0.69
	101-305-853.000	Police		5.00
VERIZON WIRELESS			Invoice Amount:	\$89.17
Verizon - Cell Phones for Park & Fire (Acct. #3)			Check Date:	08/01/2019
	101-691-853.000	Park Cell phone		40.01
	101-336-853.000	Fire - (Lifepacks)		49.16
Total Amount to be Disbursed:				\$6,780.21

108 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

Refunds 7/24/19

VENDOR INFORMATION

INVOICE INFORMATION

HEMMING,POLACZYK,CRONIN,SMITH,
BD Bond Refund

701-100-202.701

BPZ18-0007

Invoice Amount: **\$774.38**
Check Date: **07/22/2019**
774.38

CAO, BMY

JBOR

703-000-202.000

ACCOUNTS PAYABLE

Invoice Amount: **\$3,323.06**
Check Date: **07/22/2019**
3,323.06

Total Amount to be Disbursed: \$4,097.44

109 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

Wiley 11/11/19

VENDOR INFORMATION

INVOICE INFORMATION

ALERUS FINANCIAL			Invoice Amount:	\$5,725.29
Defined Contribution - PAYDATE July 5, 2019 (see			Check Date:	07/24/2019
	101-325-714.050	Define Contribution -Dispatch (Employer)		1,740.36
	101-100-231.000	Employee Cont -all		1,468.82
	101-305-714.030	Define Contribution-Police (ER)		2,516.11
A T & T			Invoice Amount:	\$966.94
AT&T - Telephone July 2019 Acct. 831-000-			Check Date:	07/24/2019
	101-325-853.400	July Comm/Lockup Phone		966.94
COMCAST			Invoice Amount:	\$61.67
Internet - August 2019 Acct 8529 10			Check Date:	07/24/2019
	101-290-941.000	August 2019 Internet		61.67
COMCAST			Invoice Amount:	\$175.64
Internet - July 2019 -- Acct 8529 10 216 189980			Check Date:	07/24/2019
	101-265-854.000	Senior Ctr Internet		165.10
	588-588-921.000	Senior Trans Internet		10.54
COMCAST			Invoice Amount:	\$104.85
Internet - July 2019 Acct 8529 10 216 1			Check Date:	07/24/2019
	101-336-921.000	July Fire Internet		104.85
COMCAST			Invoice Amount:	\$146.85
Internet Port Street - August 2019-- Acct 8529 1			Check Date:	07/24/2019
	592-291-805.000	August Internet - Port Street		146.85
DTE ENERGY			Invoice Amount:	\$37.96
FS # 2 Service- May/June 2019 - 9200-013-7823-			Check Date:	07/24/2019
	101-336-921.000	FS #2 Electric Service May/June 2019		37.96
I.A.F.F. - LOCAL 1496			Invoice Amount:	\$2,200.00
IAFF - July 2019 Union Dues (individual list attach			Check Date:	07/24/2019
	101-100-232.020	July 2019 Union Dues		2,200.00
JOHN HANCOCK LIFE INSURANCE CO.			Invoice Amount:	\$16,045.28
JOHN HANCOCK EMPLOYER PEN MATCH 7-19-19			Check Date:	07/24/2019
	588-588-714.010	Friendship Station (Boyce)		236.36
	101-171-714.010	Supervisor's Office		999.30
	101-201-714.010	IT Services (Janks)		577.44
	101-215-714.010	Clerk's Office		1,613.57
	101-253-714.010	Treasurer's Office		954.29
	101-305-714.010	Police Dept.		646.99
	101-325-714.010	Dispatch (Bonadeo)		294.19
	101-336-714.020	Fire Dept		4,194.47
	101-336-714.010	Fire (Admin) (Jowsey)		256.05
	101-371-714.010	Building Dept.		1,259.15
	101-265-714.010	Township Hall (Haack)		238.39
	592-172-714.010	Public Services (Kline, Latawiec, Martin)		837.23
	226-226-714.010	Solid Waste (Visel)		323.66
	592-291-714.040	DPW		2,603.90
	592-291-714.010	DPW (Fellrath & Hamann)		1,010.29
JOHN HANCOCK LIFE INSURANCE CO.			Invoice Amount:	\$4,867.81
JOHN HANCOCK EMPLOYEE CONTRIB 7-19--19 (s			Check Date:	07/24/2019
	101-100-231.000	Employee Contribution (EEMBT)(EEVND)		4,867.81

110 of 281
Charter Township of Plymouth
AP Invoice Listing - Board Report

VENDOR INFORMATION

INVOICE INFORMATION

NATIONWIDE RET SOL USCM/MIDWEST

Invoice Amount: \$17,058.55

Nationwide - Contribs. for pay ending 7-14-19- sp

Check Date: 07/24/2019

101-100-239.000

Contributions for pay ending 7-14-19

17,058.55

Total Amount to be Disbursed: \$47,390.84

CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019

ITEM E
PUBLIC COMMENTS AND QUESTIONS

**CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019**

NEW BUSINESS

**ITEM F.1
PHOENIX MILL BROWNFIELD PLAN
RESOLUTION # 2019-08-27-74**



CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

MEETING DATE: August 27, 2019

ITEM: The Henry Project (Phoenix Mill Redevelopment) Brownfield Plan PC Application #2338-0519, Resolution # 2019-08-27-74

PRESENTERS: Ms. Laura Haw, AICP, NCI, Planning Director
Critical Mass, LLC Representatives

BACKGROUND:

Phoenix Mill is located at 15000 Edward N. Hines Drive (formerly known as 14973 Northville Road) and situated on a ±five acre, commercially zoned parcel in the Township, bounded by Edwards Hines Drive, Northville Road and M-14. The subject site (parcel ID: R-78-018-03-0073-001) contains the historic two-story industrial structure, which was designed for the Ford Motor Company and completed in 1922. The original use was part of Henry Ford's "village industries", and included a mill which generated power from a hydro-electric wheel. Phoenix Mill, however, might best be known for being the location of the first all-female, equal pay workforce in the United States.

After the factory became obsolete, it was donated to the Wayne County Parks Division where it served as a storage yard for a number of years. Wayne County's Department of Public Service relocated its yard operations from Phoenix Mill in 2007, and the site has remained vacant since.

Accordingly, after significant due diligence and a transparent marketing period, the Charter County of Wayne elected to pursue a purchase agreement with developers Richard Cox and Greg Donofrio, known as "Critical Mass LLC", for the sale of "Phoenix Mill". On December 17, 2018, the property was purchased from Wayne County and since this time, Critical Mass LLC has initiated the restoration of the historical Phoenix Mill building and site for a restaurant, banquet facility and public recreation area.

BROWNFIELD REQUEST AND PROPOSAL DETAILS:

Critical Mass LLC is requesting Township approval for a Brownfield Plan for environmental remediation and site clean-up. Proposed brownfield activities include, but are not limited to:

- Phase I and II environmental assessments;
- Hazardous material surveys;
- Due care activities, oversight, sampling and reporting by environmental professionals;

- Demolition of two abandoned metal sheds with their foundations;
- Fill/compaction/rough grading of demolition sites;
- Removal of abandoned utilities;
- Removal of excessive hard surfaces to create park-like green space and reduce water runoff;
- Removal of diesel underground storage tank, backfill, and sampling;
- Professional fees related to the eligible activities; and
- Asbestos and lead abatement, oversight, monitoring, and reporting.

A full breakdown of the eligible activities and associated costs are detailed in the Brownfield Plan, as prepared by PM Environmental, Inc. The total cost proposed to be reimbursed to the Developer is \$511,867, with a maximum amount of \$641,900.

Under Wayne County ownership, the subject property has been tax exempt; no state or local tax revenue has been generated.

The proposed capital investment for the site is approximately 3 million (including acquisition, hard and soft costs) and it is estimated that approximately 30 temporary construction jobs will be created, with an additional 20-25 new FTE jobs once occupied. The estimated taxable value of the completed development is \$700,000.

RECOMMENDATION:

A public hearing was held at the June 10, 2019 Plymouth Township Brownfield Redevelopment Authority (BRA) meeting where the subject Brownfield Plan was considered and approved by resolution to the Board of Trustees for ultimate consideration.

PROPOSED MOTION: I move to adopt **Resolution # 2019-08-27-74** authorizing the Brownfield Plan for The Henry Project (Phoenix Mill Redevelopment, PC Application #2338-0519).

Moved by: _____ Seconded by: _____

ROLL CALL:

___Clinton, ___Curmi, ___Dempsey, ___Doroshewitz, ___Heise, ___Heitman, ___Vorva

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

**A RESOLUTION TO APPROVE THE REQUEST FOR A BROWNFIELD PLAN FOR
THE PHOENIX MILL PROPERTY LOCATED AT 15000 EDWARD HINES DRIVE**

RESOLUTION #2019-08-27-74

WHEREAS, Phoenix Mill, located at 15000 Edward Hines Drive, Township of Plymouth, has a rich history including service as part of Henry Ford's "village industries", include a mill that generated power from a hydro-electric wheel, and,

WHEREAS, the property later became a part of the Wayne County Parks Division, serving as a storage yard until 2007 when Wayne County's Department of Public Service relocated their yard operations; leaving the property vacant, and,

WHEREAS, the property has been sold to "Critical Mass LLC" for the purpose of restoring the building and site for a restaurant, banquet facility and public recreation area, and,

WHEREAS, the new owner has requested approval from the Charter Township of Plymouth Board of Trustees for a Brownfield Plan providing for environmental remediation and site clean-up so development can continue, and,

NOW, THEREFORE, BE IT RESOLVED that the Charter Township of Plymouth Board of Trustees does hereby approve **Resolution #2019-08-27-74** authorizing the request from "Critical Mass LLC" for the Brownfield Plan in accordance with the scope of work itemized in the Staff Request for Board Action from the Planning Department for this request.

Moved by: _____ Seconded by: _____

ROLL CALL:

___Clinton, ___Curmi, ___Dempsey, ___Doroshewitz, ___Heise, ___Heitman, ___Vorva

PLYMOUTH CHARTER TOWNSHIP
BROWNFIELD REDEVELOPMENT AUTHORITY

BROWNFIELD PLAN

THE HENRY PROJECT: PHOENIX MILL REDEVELOPMENT LOCATED AT 15000 EDWARD N. HINES DRIVE (formerly 14973 NORTHVILLE ROAD) PLYMOUTH TOWNSHIP, MICHIGAN

June 10, 2019

Approved by BRA:
Approved by Plymouth Board of Trustees:

Prepared By:

Critical MASS, LLC
P.O. Box 935
Northville, MI 48167
Contact Person: Gregory Donofrio
Phone: (248) 470-4836

In Consultation with:

PM Environmental, Inc.
Contact Person: Jessica DeBone
Phone: (616) 328-5297

Table of Contents

PROJECT SUMMARY	4
1.0 INTRODUCTION	5
1.1. Proposed Redevelopment and Future Use of Eligible Property	5
1.2. Eligible Property Information	6
1.2.1. Property Eligibility – Location/Legal Description	6
1.2.2. Current Ownership	7
1.2.3. Proposed Future Ownership	7
1.2.4. Delinquent Taxes, Interest, and Penalties	7
1.2.5. Existing and Proposed Future Zoning	7
1.3. Historical Use and Previous Ownership of Each Eligible Property	7
1.3.1. Historical Use	7
1.3.2. Previous Ownership	7
1.4. Current Use of Each Eligible Property	8
1.5. Site Conditions and Known Environmental Contamination Summary	8
1.6. Functionally Obsolete, Blighted and/or Historic Conditions	11
1.7. Information Required by Section 15(12) of the Statute	11
2.0 SCOPE OF WORK AND COSTS	11
3.0 TAX INCREMENT REVENUE ANALYSIS	12
3.1 Captured Taxable Value and Tax Increment Revenue Estimates	12
3.2 Combined Plan Financing Method	12
3.3 Note or Bonded Indebtedness	13
3.4 Tax Increment Revenues Capture Period	13
3.5 Future Tax Revenues	13
4.0 RELOCATION	14
5.0 OTHER INFORMATION THE AUTHORITY OR GOVERNING BODY CONSIDERS PERTINENT	14
EXHIBITS - FIGURES	15
FIGURE 1: SCALED PROPERTY LOCATION MAP	16
FIGURE 2: ELIGIBLE PROPERTY MAPS	17
FIGURE 3: PROPOSED SAMPLING LOCATION MAP	18
FIGURE 4: KNOWN EXTENT OF VERTICAL AND HORIZONTAL CONTAMINATION MAP	19
FIGURE 5: COLOR SITE PHOTOGRAPHS	20

FIGURE 6: INFRASTRUCTURE IMPROVEMENT MAP	23
FIGURE 7: SITE PREPARATION MAP	24
FIGURE 8: REDEVELOPMENT PROJECT RENDERINGS	25
FIGURE 9: ENGINEERING SITE PLAN	26
FIGURE 10: LEGAL DESCRIPTION	27
FIGURE 11: DOCUMENTATION OF ELIGIBILITY	28
<i>EXHIBITS - TABLES</i>	<i>30</i>
TABLE 1: ELIGIBLE ACTIVITIES COSTS AND SCHEDULE	31
TABLE 2: TIF TABLE – TAX CAPTURE	32
TABLE 3: TIF TABLE – REIMBURSEMENT SCHEDULE	33

PROJECT SUMMARY

Project Name:

The Henry Project – Phoenix Mill Redevelopment

Project Location:

The property is located at 14973 Northville Road, Plymouth Township, Wayne County Michigan 48170 (the “Property”).

Eligibility:

The property is considered “Eligible Property” as defined by Act 381, Section 2 because: (a) the Property was previously utilized or is currently utilized for a commercial and/or industrial purpose; (b) the parcels comprising the Brownfield Property have each been determined to be a “Facility” and/or adjacent and contiguous to a “Facility.”

Eligible Activities:

Pre-Approved Activities, Department Specific Activities, Asbestos Containing Materials (ACM) and Lead Surveys, Demolition, and Preparation of a Brownfield Plan and Act 381 Work Plan.

Tax Increment Revenue Capture Value and Period:

\$641,900 (includes eligible activities, 15% contingency, and 3% simple interest) in eligible activities subject to tax increment revenue capture with total plan of an estimated 30 years from start of capture.

Project Overview:

This project includes restoration of the historical Phoenix Mill building (formerly Wayne County Phoenix Transfer Yard) and significant improvements to the surrounding grounds to create a commercial space suitable for restaurant and banquet tenants. The restoration of the space will include removal of hazardous materials, such as asbestos and lead, improvement of the building utilities, significant restoration to the interior space, and renovation of the mechanical, electrical, and plumbing systems. Two historically insignificant steel sheds, erected for the maintenance of road vehicles for the County Roads division, will be demolished. The rehabilitation of the site will include the removal of 7,455 sq.ft. of hard surface concrete/asphalt which will reduce water run-off. The owners/developers estimate capital investment of ~\$3million (including acquisition, hard and soft costs). It is estimated that 30 construction jobs will be created. The potential tenants anticipate to create 20-25 new jobs.

1.0 INTRODUCTION

Brownfields are defined as properties that are contaminated (facility), blighted, functionally obsolete, or are historic properties. All Brownfield properties face economic impediments to reuse and redevelopment. Michigan legislature, Brownfield Redevelopment Financing Act, Michigan Public Act 381 of 1996, as amended (“Act 381”), authorizes municipalities to “create a brownfield redevelopment authority to facilitate the implementation of brownfield plans; to create brownfield redevelopment zones; to promote the revitalization, redevelopment, and reuse of certain property, including, but not limited to, tax reverted, blighted, or functionally obsolete property; to prescribe the powers and duties of brownfield redevelopment authorities; to permit the issuance of bonds and other evidences of indebtedness by an authority; to authorize the acquisition and disposal of certain property; to authorize certain funds; to prescribe certain powers and duties of certain state officers and agencies; and to authorize and permit the use of certain tax increment financing.”

Plymouth Township (“the Township”) has established the Plymouth Township Brownfield Redevelopment Authority (“the Authority”) to ease the economic impediments on brownfield properties within the Township.

The purpose of this Brownfield Plan (“the Plan”) is to support the restoration and reuse of the Phoenix Mill Property within Plymouth Township and to allow financing of eligible activities at the Brownfield Property. By facilitating redevelopment of the Brownfield Property, this Plan is intended to promote economic growth for the benefit of the residents of the Township and all taxing units located within and benefited by the Authority.

This Plan is intended to be a living document, which may be modified or amended in accordance with and as necessary to achieve the purposes of Act 381. The applicable sections of Act 381 are noted throughout the plan for reference purposes.

1.1. Proposed Redevelopment and Future Use of Eligible Property

The proposed redevelopment will focus on the main 9,540 sq.ft. historic Phoenix Mill building and surrounding green space. The building will undergo a significant restoration and repurposing. The main building was used by Ford Motor Company for the production of electrical parts and by the (former) Wayne County Road Commission as a paint shop and truck repair area. The interior of the main building will be restored and renovated to meet the needs of the tenants. The renovation will consist of removal of hazardous building materials, including asbestos and lead paint, new mechanical, electrical, and plumbing systems to meet current regulations, and an updated fire suppression system and alarms. The restoration will also include work to secure and repair the exterior façade, while keeping true to the historical decoration and design of the building. This will include brick work and window sills, restoration of exterior doors, and restoration of all original window frames with all new Low-E glass. The renovations will also include improvements to accessibility through a reconfigured access core allowing improved people flow, including access by people with physical disabilities, to both levels of the building. The prospective future tenants include restaurant and banquet businesses.

The proposed redevelopment also includes the demolition of the two single-story storage sheds and removal of hard surfaces. The central storage shed is approximately 3,275 sq.ft. and the western storage shed is approximately 4,180 sq.ft. A significant amount of concrete/asphalt will also be removed, reducing water runoff, and will be replaced by gardens and green space. No revitalization of publicly owned/maintained spaces is contemplated in this plan.

Interior restoration activities are scheduled to begin in June of 2019 with exterior shed demolition, exterior main building restoration, and site groundwork scheduled to take place through the summer of 2019. The estimated project completion date is June of 2020. Critical MASS, LLC estimates the total cost of the project will be \$3 million and will create approximately 30 temporary construction jobs. The potential tenants are anticipating to create 20-25 new full-time equivalent (FTE) jobs at an FTE average wage of approximately \$15/hr.

Plymouth Township is not a Qualified Local Government Unit (QLGU).

1.2. Eligible Property Information

1.2.1. Property Eligibility – Location/Legal Description

The property is considered “Eligible Property” as defined by Act 381, Section 2 because: (a) the Property was previously utilized or is currently utilized for a commercial and/or industrial purpose; (b) the parcel comprising the Property has been determined to be a “Facility” and a “Property.”

The eligible Property consists of one (1) legal parcel totaling approximately 5.15 acres with a street address of 14973 Northville Road, Plymouth Charter Township, Wayne County, Michigan 48170 identified as Parcel 78-018-03-0073-01. The parcel, including buildings and fixtures, and all tangible personal property located thereon will comprise the eligible Property and is referred to herein as the “Property.”

The Property is located in a triangular parcel, bounded by Northville Road, Hines Park Drive, and M-14 expressway. The eastern edge of the Property abuts Northville Road. The original main entrance is on the eastern side of the building, facing Phoenix Lake, and is now inadequate for heavy pedestrian traffic due to previous road widening projects. The southern border of the Property meets up with M-14. The western and northern borders of the Property are bounded by Edward Hines Park Drive. Parcel information is summarized in the table below.

Property Address	Parcel ID	Approximate Acreage	Eligibility
14973 Northville Road	78-018-03-0073-01	5.15	A “Facility” and a “Property”

1.2.2. Current Ownership

Critical MASS, LLC is the project developer (“Developer”) and current owner of the Property (see table below). Members of Critical MASS, LLC specialize in the restoration of historic automotive properties in the metro Detroit area. Over the past 25 years, the members of Critical MASS, LLC have received significant acclaim for their restorations and renovations, including that of another historic automotive “Village Industry” building. The Property has been owned by the current owners for over 6 months, as it was purchased from Wayne County on December 17, 2018.

Property Owner	Owner Address	Contact Person
Critical MASS, LLC	PO Box 935, Northville, MI 48167	Gregory M. Donofrio

1.2.3. Proposed Future Ownership

There is no proposed future ownership change.

1.2.4. Delinquent Taxes, Interest, and Penalties

There are currently no delinquent taxes, interest, or penalties related to this building/Property.

1.2.5. Existing and Proposed Future Zoning

The parcel zoning was changed from PL to C-2, General Commercial, at a Plymouth Township Board of Trustees meeting on November 27th, 2018. The current C-2 zoning will permit the proposed future uses.

1.3. Historical Use and Previous Ownership of Each Eligible Property

1.3.1. Historical Use

Standard and historical sources documented that the Property was developed with the current eastern building, the Phoenix Mill Building, in 1922. The central and western buildings were constructed between 1952 and 1956 and served as storage and work sheds for the Wayne County Roads department.

1.3.2. Previous Ownership

The Property was purchased by Ford Motor Company around 1919 and occupied for electrical parts production from 1922 to at least 1946, Wayne County Road Commission from at least 1957 to 2017, including paint operations from 1957 to the 1970s and automotive service operations, including salt truck repair, for an unknown length of time, and has been vacant since at least 2018. It is known that Wayne County maintained at least one diesel underground storage tank (UST), which currently remains on the property. The UST is currently registered with the State of Michigan Licensing and

Regulatory Affairs (LARA) Bureau of Fire Services Storage Tank Division (STD). No known heavy equipment or machinery was attached to the building as part of Wayne County's usage. Wayne County road operations were moved from the facility around 2007 and it is been used as a storage facility since that time.

1.4. Current Use of Each Eligible Property

The current building(s) and property are vacant. The most recent use was that of a storage warehouse for office furniture, used by Wayne County.

1.5. Site Conditions and Known Environmental Contamination Summary

PM Environmental, Inc. (PM) performed a Phase I Environmental Site Assessment (ESA) for the Property dated June 27, 2018, in conformance with the scope and limitations of ASTM Practice E 1527-13 (i.e., the 'ASTM Standard').

PM's June 2018 Phase I ESA identified the following recognized environmental conditions (RECs):

- The Property is a closed leaking underground storage tank (LUST) site with two reported releases in 1989 (C-0132-89) and 1993 (C-1042-93), both of which were granted Tier I Unrestricted Residential Closure in 2001. Review of previous site investigations documented that residual soil contamination remains onsite associated with the former diesel UST below the former Michigan Department of Environmental Quality (MDEQ) Tier I criteria, but above the current MDEQ Part 213 Residential and Nonresidential Risk Based Screening Levels (RBSLs). Based on these analytical results and closed LUST status, the Property meets the definition of a "property" as defined by Part 213 of P.A. 451 of the Michigan Natural Resources Environmental Protection Act (NREPA), as amended. Additionally, the potential exists for contamination to be present associated with the former fuel dispensers.
- The Property was occupied by a Ford Motor Company electrical parts factory from 1922 to at least 1946, and Wayne County Road Commission from at least 1957 to 2017. Review of reasonably ascertainable information indicates the eastern building was used for road commission painting operations from at least 1957 to at least the 1970s. During the June 2018 Phase I ESA site reconnaissance, PM observed heavy petroleum staining and spill pallets in the southern portion of the building, indicative of automotive service operations. PM was unable to determine the length of time that service operations occurred. Additionally, during the June 2018 Phase I ESA site reconnaissance, PM observed a sign in the western building that documented grinding operations took place in the northern portion of the building, indicating that former road commission operations may have included metal machining activities. The central building was reportedly used for service operations for an unknown amount of time. PM was unable to determine the length of service and metal machining operations in any of the buildings. Historical interior waste streams associated with the historical electrical parts factory operations and former road county commission operations would have consisted of general hazardous

substances and/or petroleum products. A significant portion of this time period preceded major environmental regulations and current waste management practices and disposal procedures. The historical waste management practices are unknown and may be a source of subsurface contamination.

- The current regulated UST system consists of one 6,000-gallon diesel UST, which was installed in February 1993 and is located in the eastern portion of the property. Evidence of a former fuel dispenser was observed immediately south of the UST at the time of the June 2018 Phase I ESA site reconnaissance. PM was unable to determine when the fuel dispenser was removed. No assessment activities were completed associated with the current UST and/or former associated fuel dispenser. The potential exists that a release has occurred from the current UST and/or associated former fuel dispenser.
- The Property contains two unregulated 12,000-gallon calcium chloride USTs, which were installed in 1982 and are located east of the central subject building. The USTs were connected to a series of aboveground product piping within the central building, which discharged south of the building. No assessment activities were completed associated with the USTs. The potential exists that a release has occurred from the UST system and negatively impacted the subsurface.
- During the June 2018 Phase I ESA site reconnaissance, PM observed a floor drain in the apparent former service area, and throughout the first floor of the eastern building. Additionally, PM observed a floor drain in the central building. Based on the age of the buildings (1922 and late 1950s), the potential exists for failure of the drainage system (i.e., cracks, leaks) to have occurred over time. The historical waste management practices associated with the drains and long-term road commission operations are unknown and may be a source of subsurface contamination
- During the June 2018 Phase I ESA site reconnaissance, PM observed an apparent sump cover in the eastern portion of the Property. Review of the figure from the 2001 LUST Closure Report indicates the sump is a brine sump. PM was unable to determine the installation date or status (i.e., active, out of use, etc.) of the brine sump. The structural integrity and historical waste management practices associated with the sump are unknown and may be a source of subsurface contamination.
- Review of reasonably ascertainable information indicates that municipal sewer has been available to the Property area since at least 1968. However, no specific connection information was available for the Property. The buildings may have been connected to a private septic field historically. The Property was occupied by an electrical parts factory 1922 to at least 1946, and Wayne County Road Commission from at least 1957 to 2017. The historical waste management practices associated with the former long-term operations and the potential former on-site septic field are unknown and may be a source of subsurface contamination.

On October 25, 2018, PM completed a geophysical survey investigation utilizing ground penetrating radar (GPR) at the Property to verify the locations of potential former septic tanks

and/or fields and former USTs and associated product piping at the Property. No anomalies consistent with orphan USTs, including former septic systems and associated product piping, were identified during the GPR survey. Fenced-in areas east of the subject building were encountered as limitations at the Property.

On October 25 and 26, 2018, PM completed a subsurface investigation at the Property that consisted of the advancement of 14 soil borings (SB-1 through SB-14), the installation of seven temporary monitoring wells (TMW-1, TMW-2, TMW-5, TMW-6, TMW-10, TMW-12, and TMW-14), and the collection of 15 soil samples and seven groundwater samples for laboratory analysis of volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PNAs), polychlorinated biphenyls (PCBs), cadmium, chromium, lead, calcium, chloride, and sodium, or some combination thereof.

The soil boring/temporary monitoring well locations are depicted within Figure 4 of this Plan.

PM compared the soil and groundwater analytical results from current and previous site investigation activities with the MDEQ Part 201 Generic Cleanup Criteria dated December 30, 2013 entitled "Cleanup Criteria Requirements for Response Activity", in accordance with Section 20120a(1) using the Residential and Nonresidential cleanup criteria.

Concentrations of various VOCs were identified in the soil samples collected from SB-1, SB-2, SB-7, and SB-14 above the Part 201 Residential and Nonresidential Drinking Water Protection (DWP) and/or Groundwater Surface Water Interface Protection (GSIP) cleanup criteria and/or the site-specific target levels (SSTLs).

Concentrations of various PNAs were identified in the soil samples collected from SB-2, SB-13, and SB-14 above the Part 201 GSIP and/or Residential Direct Contact (DC) cleanup criteria, but below the applicable Part 201 Nonresidential DC cleanup criteria. A concentration of naphthalene was identified in the soil sample collected from SB-14 above the SSTLs.

Concentrations of calcium, chloride, and/or sodium were identified in the soil samples analyzed from SB-5 and SB-6 above laboratory method detection limits (MDLs), but below the most restrictive Part 201 Residential cleanup criteria.

Concentrations of calcium, chloride, and sodium were identified in the groundwater samples analyzed from TMW-5 and TMW-6 above laboratory MDLs, but below the most restrictive Part 201 Residential cleanup criteria.

Contaminant concentrations identified in soil on the Property indicate exceedances of the Part 201 Residential and Nonresidential DWP, GSIP, and Residential DC cleanup criteria. Therefore, the Property is a "facility" under Part 201 of P.A. 451, as amended, and the rules promulgated thereunder.

Based on these analytical results and closed LUST status, the Property meets the definition of a "property" as defined by Part 213 of P.A. 451 of the Michigan Natural Resources Environmental Protection Act (NREPA), as amended.

A Baseline Environmental Assessment (BEA) was completed and acknowledgement received from the MDEQ March 7th, 2019 and the Property was placed on the inventory of facilities, pursuant to Section 20112a(6) of Part 201.

1.6. Functionally Obsolete, Blighted and/or Historic Conditions

While the Property has not been officially determined to be functionally obsolete, blighted or registered as Historic, it is a vacant property and the conditions are indicative of such and the redevelopment will be putting a now vacant property back to use.

1.7. Information Required by Section 15(12) of the Statute

The Plan is not being submitted for MSF consideration, therefore this section is not applicable.

2.0 SCOPE OF WORK AND COSTS

Tax Increment Financing revenues will be used to reimburse the costs of “eligible activities” (as defined by Section 2 of Act 381) as permitted under the Brownfield Redevelopment Financing Act that include: Pre-Approved Activities, Department Specific Activities, Demolition, Asbestos and Lead Activities, preparation of a Brownfield Plan and Act 381 Work Plan, and 3% simple interest.

The following eligible activities and budgeted costs are intended as part of the development of the Property and are to be financed solely by the developer. All activities are intended to be “Eligible Activities” under the Brownfield Redevelopment Financing Act. The Authority is not responsible for any cost of eligible activities and will incur no debt.

1. Pre-Approved Activities include a Phase 1 Environmental Site Assessment (ESA), Phase II ESA/BEA, and Hazardous Materials Survey required as part of the pre-purchase due diligence conducted on the Property at a total cost of \$23,725
2. Department Specific Activities include oversight/sampling/reporting by an environmental professional related to the removal of USTs at a total estimated cost of \$10,000.
3. Demolition Activities includes building and site demolition, foundation removal, fill/compaction/rough grading to balance site where building and improvements are located, removal of parking lots, and fees related to demolition engineering and design at an estimated cost of \$213,444.
4. Asbestos Activities includes asbestos containing materials (ACM) and lead abatement, oversight, air monitoring and associated reporting at an estimated cost of \$125,000.
5. Preparation and Implementation of the Brownfield Plan and Act 381 Work Plan and associated activities (e.g. meetings with the BRA, review by the Township Attorney, etc.) at a cost of approximately \$20,000.
6. A 15% contingency of \$52,267 is estimated to address unanticipated environmental and/or other conditions that may be discovered through the

implementation of site activities. This excludes the cost of Pre-Approved Activities and preparation of the Brownfield Plan and Act 381 Work Plan.

7. Three percent simple interest is applied to unreimbursed activities throughout the duration of the plan, utilizing the Michigan Strategic Fund (MSF)/MDEQ published interest calculator, totaling an estimated amount of \$197,465.

All activities are intended to be “Eligible Activities” under the Brownfield Redevelopment Financing Act. The total estimated cost of Eligible Activities subject to reimbursement from tax increment revenues is \$392,169 with a potential \$52,267 contingency and \$197,465 in interest, resulting in a total cost of \$641,900. Therefore, the total cost for reimbursement to the applicant is a not-to-exceed amount of \$641,900 (including contingency and simple interest), unless the Plan is amended and approved by the PTBRA and Township Board of Trustees. See Table 1 for a detailed breakdown of the eligible activities costs and schedule.

3.0 TAX INCREMENT REVENUE ANALYSIS

3.1 Captured Taxable Value and Tax Increment Revenue Estimates

Incremental taxes on real property included in the redevelopment project will be captured under this Plan to reimburse eligible activity expenses. The prior year taxable value of the property was zero (\$0) as it was owned by Wayne County and tax exempt. For captured taxable value purposes, the base taxable value of the Property shall be determined by the local government unit’s assessor, who shall determine the property’s prior year actual taxable value as if the property had not been tax exempt. The Plymouth Township assessor has determined that the 2019 taxable value of the property is \$193,160.

Tax increment revenue capture will begin when tax increment is generated by redevelopment of the Property, which is expected to begin in 2020 or when full redevelopment is completed whichever occurs first. The estimated taxable value of the completed development is \$700,000. An annual increase in taxable value of 1% has been used for calculation of future tax increments in this Plan. Tables 2 and 3 detail the estimate of captured tax increment revenues for each year of the Plan from the eligible property.

The Plymouth Township Brownfield Redevelopment Authority (PTBRA) does not collect annual administrative fees. Under this plan, a Local Brownfield Redevelopment Fund will not capture incremental taxes following developer reimbursement completion.

3.2 Combined Plan Financing Method

Eligible activities will be financed by Critical Mass, LLC. The Developer will be reimbursed for eligible costs as described in Section 2. Costs for Eligible Activities funded by Critical Mass, LLC will be repaid under the Michigan Brownfield Redevelopment Financing Program (Michigan Public Act 381, as amended) with incremental taxes generated by future development of the Property. The estimated amount of tax increment revenue capture that will be used to

reimburse the Developer is \$511,867; however, the maximum amount of estimated eligible activities for reimbursement is \$641,900 should tax increment revenues become available.

No advances will be made by the PTBRA for this project. All reimbursements authorized under this Plan shall be governed by the Reimbursement Agreement.

3.3 Note or Bonded Indebtedness

No note or bonded indebtedness will be incurred by any local unit of government for this project.

3.4 Tax Increment Revenues Capture Period

In no event shall the duration of the Plan exceed 30 years following the date of the resolution approving the Plan, nor shall the duration of the tax capture exceed the lesser of the period authorized under subsection (4) and (5) of Section 13 of Act 381 or 30 years. Further, in no event shall the beginning date of the capture of tax increment revenues be later than five years after the date of the resolution approving the Plan. The Property will become part of this Plan on the date this Plan is approved by the Plymouth Township Board of Trustees.

3.5 Future Tax Revenues

Under the ownership of Wayne County, the Phoenix Mill site has been tax exempt, meaning zero tax revenue has been generated for any of the local or state millages. In order for the site to be useable and generate tax revenue, the site and main building will need to be renovated.

The plan to restore and repurpose the site will allow taxes to be generated to taxing jurisdictions on local and state captured millages at the base taxable value of \$193,160 throughout the duration of this Plan totaling approximately \$266,149 or approximately \$8,872 annually. Additionally, since state school taxes are only being sought on MDEQ eligible environmental activities, state school millages will also see an increase in additional new tax revenue, after completion of restoration with a new taxable value, of approximately \$315,904 throughout the duration of this Plan.

Non-capturable millages; including debt millages, the zoo authority and art institute, will see an immediate increase in new tax revenue following redevelopment and will provide new tax revenue of approximately \$105,319 throughout the duration of this Plan.

A summary of the impact to taxing jurisdictions for the life of the Plan is summarized below, the amount captured is the sum of developer eligible activity and interest reimbursement.

Millage	Rate	New Taxes Generated: Private Ownership vs. Tax Exempt - Annually	New Taxes Generated: Private Ownership vs. Tax Exempt - Plan Period*	Additional New Taxes for Non-Captured Millages - New TV - Plan Period	Amount Captured	Taxes Generated; After Capture Completed - Annually**
State Education Tax (SET)	6.0000	\$ 1,159	\$ 34,769	\$ 78,975.20	\$ 32,352	\$ 5,667
School Operating Tax	18.0000	\$ 3,477	\$ 104,306	\$ 236,928.60	\$ 97,055	\$ 17,001
Subtotal	24.0000	\$ 4,636	\$ 139,075	\$ 315,903.80	\$ 129,407	\$ 22,668
Wayne County	6.6380	\$ 1,282	\$ 38,466		\$ 123,166	\$ 6,270
Plymouth Township	0.8154	\$ 158	\$ 4,725		\$ 15,129	\$ 770
Wayne County Jail	0.9381	\$ 181	\$ 5,436		\$ 17,406	\$ 886
Community College	1.7662	\$ 341	\$ 10,235		\$ 32,771	\$ 1,668
RESA - Sp Ed	3.3678	\$ 651	\$ 19,516		\$ 62,488	\$ 3,181
RESA - Oper	0.0965	\$ 19	\$ 559		\$ 1,791	\$ 91
RESA - Enhance	2.0000	\$ 386	\$ 11,590		\$ 37,109	\$ 1,889
Police - fire (1,2,3)	3.3939	\$ 656	\$ 19,667		\$ 62,973	\$ 3,206
Fire	0.9927	\$ 192	\$ 5,752		\$ 18,419	\$ 938
Wayne County Parks	0.2459	\$ 47	\$ 1,425		\$ 4,563	\$ 232
HCMA	0.2129	\$ 41	\$ 1,234		\$ 3,950	\$ 201
Plymouth Library	1.4615	\$ 282	\$ 8,469		\$ 27,118	\$ 1,380
Subtotal	21.9289	\$ 4,236	\$ 127,074		\$ 406,882	\$ 20,712
Total Capturable Millages	45.9289	\$ 8,872	\$ 266,149		\$ 536,289	\$ 43,380
Non-Capturable Millages	Rate	New Taxes Generated: Private Ownership vs. Tax Exempt - Annually	New Taxes Generated: Private Ownership vs. Tax Exempt - Plan Period*	Additional New Taxes for Non-Capturable Millages - New TV - Plan Period	Amount Captured	Taxes Generated; After Capture Completed - Annually**
Zoo Authority (Wayne County)	0.1000	\$ 19	\$ 579	\$ 1,856	\$ -	\$ 94
Art Institute (Wayne County)	0.2000	\$ 39	\$ 1,159	\$ 3,711	\$ -	\$ 189
School Debt	4.0253	\$ 778	\$ 23,326	\$ 74,688	\$ -	\$ 3,802
Total Non-Capturable Millages	4.3253	\$ 835	\$ 25,064	\$ 80,255	\$ -	\$ 4,085

* Assumes \$193,160 taxable value remaining the same over the ~30 year period. Increases in value will increase taxes generated over estimate.

** Assumes 1% TV increase per year. TV in year following capture completion of \$944,505

See Table 2 for a complete breakdown of available tax increment revenue and Table 3 for the estimated annual reimbursement.

4.0 RELOCATION

No persons or families reside on the eligible property; therefore, no displacement of persons or families is expected as part of this project and no relocation will be required.

5.0 OTHER INFORMATION THE AUTHORITY OR GOVERNING BODY CONSIDERS PERTINENT

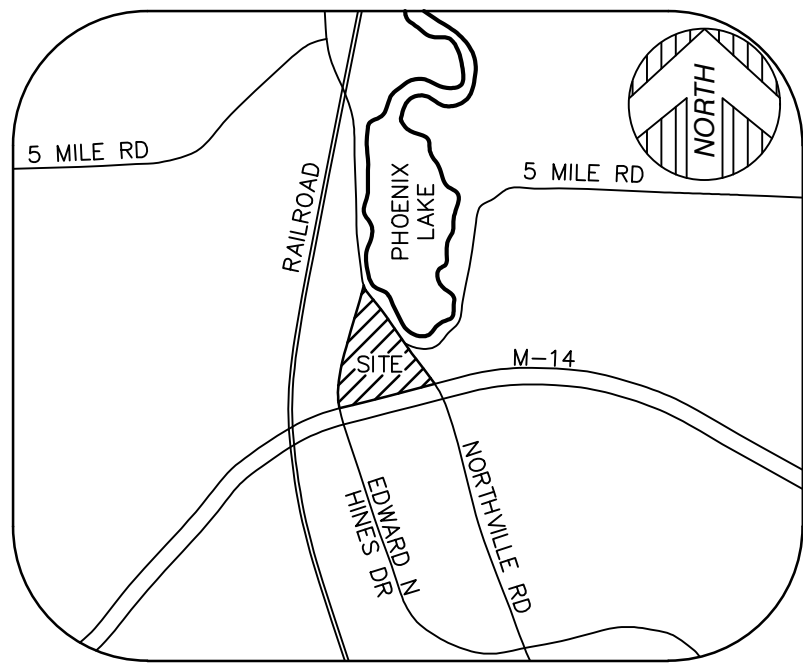
The Brownfield Redevelopment Authority and the Township Board of Trustees as the Governing Body, in accordance with the Act, may amend this Plan in order to fund additional eligible activities associated with the Project described herein.

Should an Act 381 work plan not be approved or pursued, all eligible activities will be reimbursed by local only tax increment revenue, to the extent that revenues are available.

EXHIBITS - FIGURES

FIGURE 1: SCALED PROPERTY LOCATION MAP





VICINITY MAP
(NOT TO SCALE)

PARKING

NO MARKED PARKING ON SITE.

PARCEL AREA

224,535± SQUARE FEET = 5.155± ACRES

BASIS OF BEARING

SOUTH 88°11'58" EAST, BEING THE NORTH LINE OF SECTION 23, AS DESCRIBED.

FLOOD NOTE

SUBJECT PARCEL LIES WITHIN:

FLOODWAY AREAS IN ZONE AE: THE FLOODWAY IS THE CHANNEL OF A STREAM PLUS ANY ADJACENT FLOODPLAIN AREAS THAT MUST BE KEPT FREE OF ENCROACHMENT SO THAT THE 1% ANNUAL CHANCE FLOOD CAN BE CARRIED WITHOUT SUBSTANTIAL INCREASES IN FLOOD HEIGHTS.

OTHER FLOOD AREA (ZONE X): AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

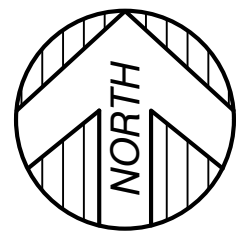
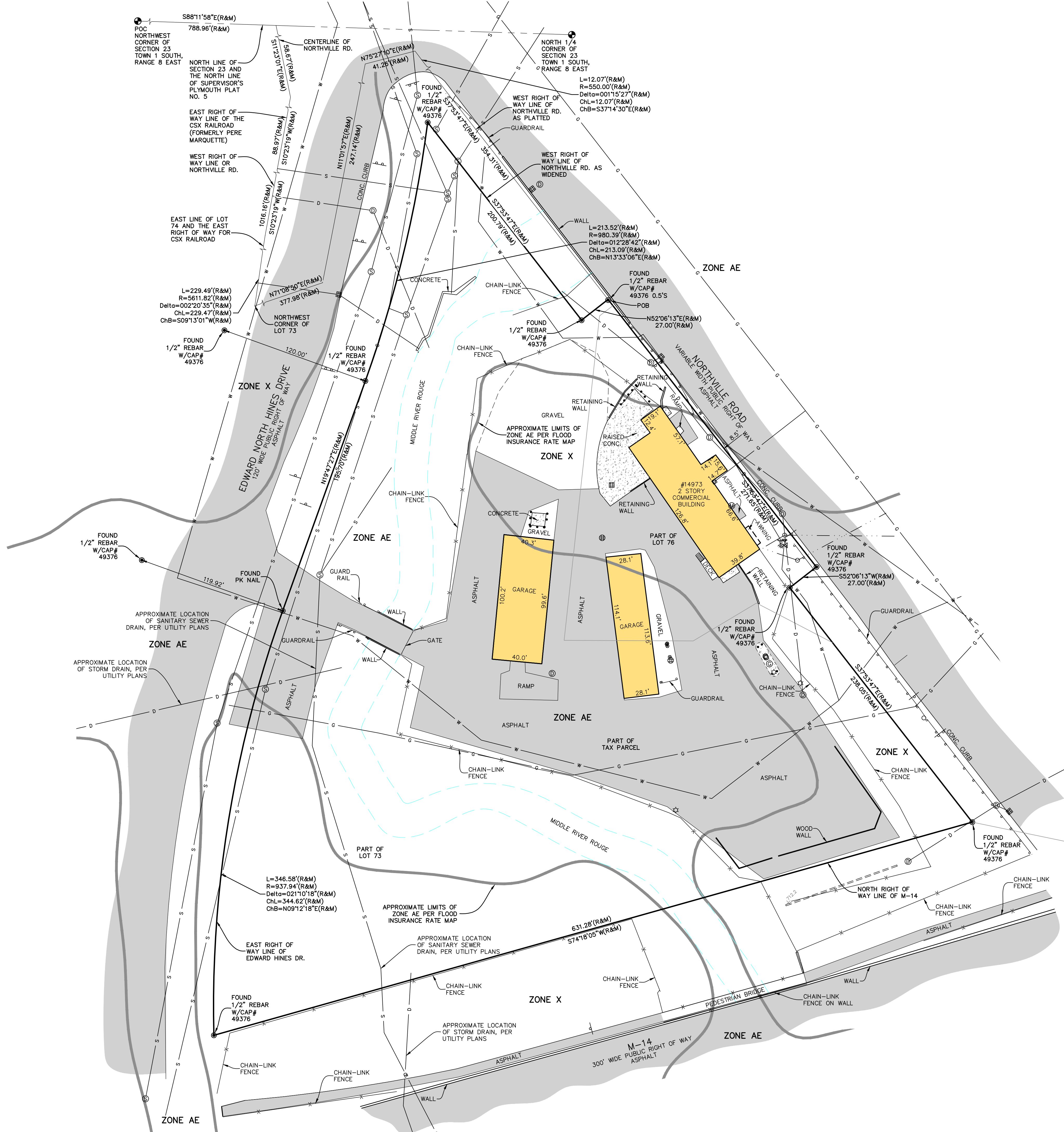
AS SHOWN ON FLOOD INSURANCE RATE MAP: MAP NUMBER 26163C0038E, DATED 02/02/12, PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

SURVEYOR'S NOTES

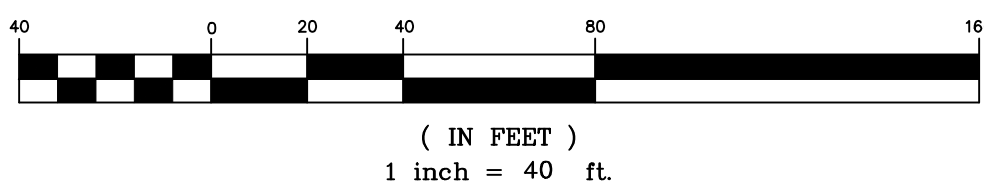
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES OTHER THAN THE STRUCTURE INVENTORY SHOWN HEREON.

LEGEND

●	FOUND MONUMENT (AS NOTED)
○	FOUND SECTION CORNER (AS NOTED)
(R&M)	RECORD AND MEASURED DIMENSION
(R)	RECORD DIMENSION
(M)	MEASURED DIMENSION
○	UTILITY POLE
⊗	GAS METER
⊕	SANITARY MANHOLE
⊕	ROUND CATCH BASIN
⊕	SQUARE CATCH BASIN
⊕	STORM DRAIN MANHOLE
⊕	GAS MANHOLE
⊕	GAS FILL
⊕	GAS LINE MARKER
⊕	UNKNOWN MANHOLE
⊕	CLEANOUT
⊕	FIRE HYDRANT
⊕	WATER VALVE
⊕	BOLLARD
⊕	LIGHTPOST/LAMP POST
⊕	SINGLE POST SIGN
⊕	DOUBLE POST SIGN
---	PARCEL BOUNDARY LINE
---	PLATTED LOT LINE
---	BUILDING
---	BUILDING OVERHANG
---	CONCRETE CURB
---	RAISED CONCRETE
---	EDGE OF CONCRETE (CONC.)
---	EDGE OF ASPHALT (ASPH.)
---	EDGE OF GRAVEL
---	FENCE (AS NOTED)
---	GUARD RAIL
---	WALL (AS NOTED)
---	EDGE OF WATER (AS NOTED)
---	OVERHEAD UTILITY LINE
---	GAS LINE
---	SANITARY LINE
---	WATER LINE
---	BUILDING HATCH
---	ASPHALT HATCH
---	CONCRETE HATCH



GRAPHIC SCALE



PROPERTY DESCRIPTION

LAND SITUATED IN THE TOWNSHIP OF PLYMOUTH, COUNTY OF WAYNE, STATE OF MICHIGAN, MORE PARTICULARLY DESCRIBED AS:

A PART OF LOTS 73 AND 76, OF "SUPERVISOR'S PLYMOUTH PLAT NO. 5 AS RECORDED IN LIBER 66 OF PLATS, PAGE 36, RECORDS OF WAYNE COUNTY, MICHIGAN, BEING MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE NORTHWEST CORNER OF SECTION 23, TOWN 1 SOUTH, RANGE 8 EAST, PLYMOUTH TOWNSHIP, WAYNE COUNTY, MICHIGAN; THENCE SOUTH 88 DEGREES 11 MINUTES 58 SECONDS EAST 788.96 FEET ALONG THE NORTH LINE OF SECTION 23, BEING ALSO THE NORTH LINE OF SUPERVISOR'S PLYMOUTH PLAT NO. 5 TO A POINT IN THE CENTERLINE OF NORTHVILLE ROAD AS PLATTED; THENCE SOUTH 11 DEGREES 23 MINUTES 01 SECONDS EAST 58.67 FEET ALONG SAID CENTERLINE TO THE EAST RIGHT OF WAY LINE OF THE CSX RAILROAD (FORMERLY PERE MARQUETTE); THENCE SOUTH 10 DEGREES 23 MINUTES 19 SECONDS WEST 88.97 FEET ALONG SAID LINE TO THE WEST RIGHT OF WAY LINE OF NORTHVILLE ROAD, BEING ALSO THE NORTH-MOST POINT OF LOT 87 AND A CORNER OF LOT 74 OF SAID PLAT; THENCE THE FOLLOWING TWO (2) COURSES ALONG THE EAST LINE OF LOT 74, BEING ALSO THE EAST RIGHT OF WAY FOR CSX RAILROAD: (1) SOUTH 10 DEGREES 23 MINUTES 19 SECONDS WEST 1,016.16 FEET, AND (2) 229.49 FEET ALONG A TANGENT CURVE TO THE LEFT, SAID CURVE HAVING A RADIUS OF 5611.82 FEET, A CENTRAL ANGLE OF 2 DEGREES 20 MINUTES 35 SECONDS, AND LONG CHORD BEARING SOUTH 09 DEGREES 13 MINUTES 01 SECONDS WEST 229.47 FEET TO THE NORTHWEST CORNER OF LOT 73; THENCE NORTH 71 DEGREES 08 MINUTES 50 SECONDS EAST 377.98 FEET; THENCE NORTH 11 DEGREES 01 MINUTES 57 SECONDS EAST 247.14 FEET; THENCE NORTH 75 DEGREES 27 MINUTES 10 SECONDS EAST 41.26 FEET TO A POINT ON THE WEST RIGHT OF WAY LINE OF NORTHVILLE ROAD AS PLATTED; THENCE THE FOLLOWING TWO COURSES ALONG SAID WEST PLATTED RIGHT OF WAY LINE: (1) ALONG A NON-TANGENT CURVE TO THE LEFT 12.07 FEET, SAID CURVE HAVING A RADIUS OF 550.00 FEET, A CENTRAL ANGLE OF 1 DEGREES 15 MINUTES 27 SECONDS, AND A LONG CHORD BEARING SOUTH 37 DEGREES 14 MINUTES 30 SECONDS EAST 12.07 FEET, AND (2) SOUTH 37 DEGREES 53 MINUTES 47 SECONDS EAST 354.31 FEET TO THE POINT OF BEGINNING; THENCE THE FOLLOWING THREE (3) COURSES ALONG THE WEST RIGHT OF WAY LINE OF NORTHVILLE ROAD AS WIDENED: (1) SOUTH 37 DEGREES 53 MINUTES 47 SECONDS EAST 271.65 FEET, AND (2) SOUTH 52 DEGREES 06 MINUTES 13 SECONDS WEST 27.00 FEET, AND (3) SOUTH 37 DEGREES 53 MINUTES 47 SECONDS EAST 238.47 FEET TO A POINT ON THE NORTH RIGHT OF WAY LINE OF M-14 (300 FEET WIDE); THENCE SOUTH 74 DEGREES 18 MINUTES 05 SECONDS WEST 631.28 FEET ALONG SAID NORTH RIGHT OF WAY LINE TO A POINT ON THE EAST RIGHT OF WAY LINE OF EDWARD HINES DRIVE (120 FEET WIDE); THENCE THE FOLLOWING THREE COURSES ALONG SAID EAST RIGHT OF WAY LINE: (1) ALONG A NON-TANGENT CURVE TO THE RIGHT 346.58 FEET, SAID CURVE HAVING A RADIUS OF 937.94 FEET, A CENTRAL ANGLE OF 21 DEGREES 10 MINUTES 18 SECONDS, AND A LONG CHORD BEARING NORTH 09 DEGREES 12 MINUTES 18 SECONDS EAST 344.62 FEET, AND (2) NORTH 19 DEGREES 47 MINUTES 27 SECONDS EAST 195.70 FEET, AND (3) ALONG A TANGENT CURVE TO THE LEFT 213.52 FEET, SAID CURVE HAVING A RADIUS OF 980.39 FEET, A CENTRAL ANGLE OF 12 DEGREES 28 MINUTES 42 SECONDS, AND A LONG CHORD BEARING NORTH 13 DEGREES 33 MINUTES 06 SECONDS EAST 213.09 FEET TO A POINT ON THE WEST RIGHT OF WAY OF NORTHVILLE ROAD AS WIDENED; THENCE THE FOLLOWING TWO (2) COURSES ALONG SAID WEST RIGHT OF WAY LINE: (1) SOUTH 37 DEGREES 53 MINUTES 47 SECONDS EAST 200.79 FEET, AND NORTH 52 DEGREES 06 MINUTES 13 SECONDS EAST 27.00 FEET TO THE POINT OF BEGINNING.

TITLE REPORT NOTE

ONLY THOSE EXCEPTIONS CONTAINED WITHIN THE FIRST AMERICAN TITLE INSURANCE COMPANY FILE NO. VGA210796, DATED SEPTEMBER 4, 2018, AND RELISTED BELOW WERE CONSIDERED FOR THIS SURVEY. NO OTHER RECORDS RESEARCH WAS PERFORMED BY THE CERTIFYING SURVEYOR.

9. OIL, GAS AND/OR MINERAL INTERESTS GRANTED OR RESERVED BY INSTRUMENT RECORDED IN LIBER 16321, PAGE 78; LIBER 29006, PAGE 064; LIBER 52630, PAGE 1410, WAYNE COUNTY RECORDS AND ANY SUBSEQUENT INSTRUMENTS PERTINENT THERETO. (SEE DOCUMENT FOR TERMS AND CONDITIONS)

10. CERTIFICATE OF SURVEY AS DISCLOSED IN INSTRUMENT(S) RECORDED IN LIBER 53909, PAGE 564, WAYNE COUNTY RECORDS. (REFERENCE)

SURVEYOR'S CERTIFICATION

TO CRITICAL MASS, LLC, A MICHIGAN LIMITED LIABILITY COMPANY, MONROE BANK & TRUST, ITS SUCCESSORS AND/OR ASSIGNS AS THEIR INTERESTS MAY APPEAR, VANGUARD TITLE COMPANY, AND FIRST AMERICAN TITLE INSURANCE COMPANY:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDED ITEMS 2, 4, 7A, 8, 9, AND 11 OF TABLE A, THEREOF. THE FIELD WORK WAS COMPLETED ON 10/22/18.

DATE OF PLAT OR MAP: 10/30/18

ANTHONY T. SYCKO, JR., P.S.
PROFESSIONAL SURVEYOR
MICHIGAN LICENSE NO. 47976
22556 GRATIOT AVE., EASTPOINTE, MI 48021
TSycko@kemttec-survey.com

ALTA / NSPS LAND TITLE SURVEY
PREPARED FOR: MONROE BANK & TRUST - PLYMOUTH
14973 NORTHVILLE ROAD, PLYMOUTH, MICHIGAN,
PART OF SECTION 23,
TOWN 1 SOUTH, RANGE 8 EAST

PROFESSIONAL ENGINEERING
SURVEYING & ENVIRONMENTAL
SERVICES
KEM-TEC
A GROUP OF COMPANIES
Eastpointe
(800) 283-7222
FAX (586) 772-2606
Am Arbor
(313) 759-0876
Detroit
(734) 994-0888
Grand Blanc
(888) 694-0001
FAX (586) 772-2606
www.kemttecgroupofcompanies.com

DRAWN BY:	CMC	10/24/18
CHECKED BY:	ATS	10/30/18
DATE:	OCTOBER 30, 2018	
PROJECT NO:	18-03752	SCALE: 1" = 40'

LEGEND:

---	SUBJECT PROPERTY
-X-	FENCE
●	FLOOR DRAIN
⌘	BAYDOOR
⌘	FORMER FUEL DISPENSER
⊙	BRINE SUMP
⊗	POLE MOUNTED TRANSFORMER
⊙	UST
●	SOIL BORING
⊕	SOIL BORING / TEMPORARY MONITORING WELL
Cd	CADMIUM
Cr	CHROMIUM
Pb	LEAD
ACE	ACENAPHTHENE
ACETHY	ACENAPHTHYLENE
ANT	ANTHRACENE
B(a)ANTH	BENZO(a)ANTHRACENE
B(a)PYR	BENZO(a)PYRENE
B(b)FLA	BENZO(b)FLUORANTHENE
B(g,h,i)PER	BENZO(g,h,i)PERYLENE
B(k)FLA	BENZO(k)FLUORANTHENE
F	FLUORENE
FL	FLUORANTHENE
I(1,2,3-CD)PY	INDENO(1,2,3-CD)PYRENE
2-M	2-METHYLNAPHTHALENE
NAPH	NAPHTHALENE
Ph	PHENANTHRENE
Py	PYRENE
DI(A,H)ANT	DIBENZO(a,h)ANTHRACENE
T	TOLUENE
X	XYLENES
1,2,4-TMB	1,2,4-TRIMETHYLBENZENE
1,3,5-TMB	1,3,5-TRIMETHYLBENZENE
1,2,3-TMB	1,2,3-TRIMETHYLBENZENE
VOCs	VOLATILE ORGANIC COMPOUNDS
PNAs	POLYNUCLEAR AROMATIC COMPOUNDS
PCBs	POLYCHLORINATED BIPHENYLS
MDL	METHOD DETECTION LIMIT
UNITS	μg/Kg (UNLESS NOTED)
	VALUE EXCEEDS APPLICABLE CRITERIA

NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED

#	DESCRIPTION
A	STORAGE BUILDING WITH FORMER MACHINING OPERATIONS
B	STORAGE BUILDING WITH FORMER SERVICE OPERATIONS
C	SUBJECT BUILDING WITH FORMER ELECTRICAL PARTS FACTORY AND PAINTING/SERVICE OPERATIONS

LOCATION OF FORMER 6,000-GALLON DIESEL UST (REMOVED 1993)

LOCATION OF FORMER 6,000-GALLON GASOLINE UST (REMOVED 1993)

SB-12	10/26/2018
UNITS	ug/Kg
VOCs	<MDL
PNAs	<MDL

SB-10	10/25/2018
UNITS	ug/Kg
VOCs	<MDL
PNAs	<MDL
PCBs	<MDL
Cd	210
Cr	11,500
Pb	9,230

SB-9	10/25/2018
UNITS	ug/Kg
VOCs	<MDL
PNAs	<MDL
PCBs	<MDL
Cd	740
Cr	8,070
Pb	12,000

SB-3	10/25/2018
UNITS	ug/Kg
VOCs	<MDL
PNAs	<MDL
PCBs	<MDL
Cd	630
Cr	5,460
Pb	12,800

SB-7	10/25/2018
UNITS	ug/Kg
CHLOROMETHANE	700
OTHER VOCs	<MDL
PNAs	<MDL
PCBs	<MDL
Cd	970
Hex Cr	<MDL
Cr (TOTAL)	232,000
Pb	10,200

SB-13	10/26/2018
UNITS	ug/Kg
VOCs	<MDL
ACETHY	800
ANT	600
B(a)ANTH	3,200
B(a)PYR	3,200
B(b)FLA	4,600
B(k)FLA	1,100
B(g,h,i)PER	6,200
CHRYSENE	2,900
FL	5,600
I(1,2,3-CD)PY	1,400
Py	1,500
2-M	4,800
OTHER PNAs	<MDL

SB-14	10/26/2018
UNITS	ug/Kg
2-M	19,000
NAPH	3,000
T	800
1,2,3-TMB	3,600
1,2,4-TMB	2,600
1,3,5-TMB	2,100
X	700
OTHER VOCs	<MDL
ACE	1,300
ANT	800
B(a)ANTH	1,800
B(a)PYR	1,600
B(b)FLA	2,800
B(k)FLA	900
B(g,h,i)PER	3,700
CHRYSENE	2,000
FL	3,900
F	1,800
I(1,2,3-CD)PY	1,000
NAPH	10,000
Ph	2,400
Py	5,000
2-M	4,000
OTHER PNAs	<MDL
Pb	134,000

SB-6	10/25/2018
UNITS	ug/Kg
CALCIUM	108,000
CHLORIDE	30
SODIUM	149

SB-1	10/25/2018
UNITS	ug/Kg
2-M	1,400
NAPH	6,400
OTHER VOCs	<MDL
B(a)ANTH	400
B(a)PYR	300
B(b)FLA	400
B(g,h,i)PER	600
CHRYSENE	400
FL	900
NAPH	300
Ph	1,500
Py	1,200
2-M	800
OTHER PNAs	<MDL
PCBs	<MDL
Cd	530
Cr	10,600
Pb	201,000

SB-2	10/25/2018
UNITS	ug/Kg
CHLOROMETHANE	500
2-M	1,900
NAPH	5,900
OTHER VOCs	<MDL
ACE	1,100
ANT	3,300
B(a)ANTH	5,900
B(a)PYR	4,300
B(b)FLA	6,400
B(k)FLA	1,600
B(g,h,i)PER	8,500
CHRYSENE	5,600
DI(A,H)ANT	300
FL	14,100
F	900
I(1,2,3-CD)PY	1,900
NAPH	800
Ph	2,200
Py	14,700
2-M	11,400
OTHER PNAs	<MDL
PCBs	<MDL
Cd	920
Cr	4,170
Pb	72,500

SB-4	10/26/2018
UNITS	ug/Kg
VOCs	<MDL
PNAs	<MDL
PCBs	<MDL
Cd	<MDL
Cr	4,800
Pb	6,830

SB-8	10/25/2018
UNITS	ug/Kg
VOCs	<MDL
PNAs	<MDL
PCBs	<MDL
Cd	400
Cr	23,700
Pb	10,000

SB-5	10/25/2018
UNITS	ug/Kg
CALCIUM	9,810
CHLORIDE	110
SODIUM	414

SOW:
up to 4 soil samples collected following removal of the diesel UST
analyze for PNAs

(2) 12,000-GALLON CALCIUM CHLORIDE USTs

**FIGURE 3**

SOIL BORING / TEMPORARY MONITORING WELL LOCATION MAP WITH SOIL ANALYTICAL RESULTS

PROJ: FORMER WAYNE COUNTY PHOENIX YARD
14973 NORTHVILLE ROAD
PLYMOUTH TOWNSHIP, MI

THIS IS NOT A LEGAL SURVEY

DRN BY: CS/RC/CS DATE: 12/17/2018

VERIFY SCALE 60'

CHKD BY: TH SCALE: 1" = 60'

IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

FILE NAME: 01-9781-0-003F00R00

LEGEND:

---	SUBJECT PROPERTY
-X-	FENCE
●	FLOOR DRAIN
⌘	BAYDOOR
⌘	FORMER FUEL DISPENSER
⊙	BRINE SUMP
⊗	POLE MOUNTED TRANSFORMER
⊙	UST
●	SOIL BORING
⊕	SOIL BORING / TEMPORARY MONITORING WELL
Cd	CADMIUM
Cr	CHROMIUM
Pb	LEAD
ACE	ACENAPHTHENE
ACETHY	ACENAPHTHYLENE
ANT	ANTHRACENE
B(a)ANTH	BENZO(a)ANTHRACENE
B(a)PYR	BENZO(a)PYRENE
B(b)FLA	BENZO(b)FLUORANTHENE
B(g,h,i)PER	BENZO(g,h,i)PERYLENE
B(k)FLA	BENZO(k)FLUORANTHENE
F	FLUORENE
FL	FLUORANTHENE
I(1,2,3-CD)PY	INDENO(1,2,3-CD)PYRENE
2-M	2-METHYLNAPHTHALENE
NAPH	NAPHTHALENE
Ph	PHENANTHRENE
Py	PYRENE
DI(A,H)ANT	DIBENZO(a,h)ANTHRACENE
T	TOLUENE
X	XYLENES
1,2,4-TMB	1,2,4-TRIMETHYLBENZENE
1,3,5-TMB	1,3,5-TRIMETHYLBENZENE
1,2,3-TMB	1,2,3-TRIMETHYLBENZENE
VOCs	VOLATILE ORGANIC COMPOUNDS
PNAs	POLYNUCLEAR AROMATIC COMPOUNDS
PCBs	POLYCHLORINATED BIPHENYLS
MDL	METHOD DETECTION LIMIT
UNITS	μg/Kg (UNLESS NOTED)
	VALUE EXCEEDS APPLICABLE CRITERIA

NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED

#	DESCRIPTION
A	STORAGE BUILDING WITH FORMER MACHINING OPERATIONS
B	STORAGE BUILDING WITH FORMER SERVICE OPERATIONS
C	SUBJECT BUILDING WITH FORMER ELECTRICAL PARTS FACTORY AND PAINTING/SERVICE OPERATIONS

LOCATION OF FORMER 6,000-GALLON DIESEL UST (REMOVED 1993)

LOCATION OF FORMER 6,000-GALLON GASOLINE UST (REMOVED 1993)

HEAVY PETROLEUM STAINING

(2) 55-GALLON DRUMS

6,000-GALLON DIESEL UST

(2) 12,000-GALLON CALCIUM CHLORIDE USTs

SB-10	10/25/2018
5.5 ~ 6.5'	
UNITS	ug/Kg
VOCs	<MDL
PNAs	<MDL
PCBs	<MDL
Cd	210
Cr	11,500
Pb	9,230

SB-9	10/25/2018
5.0 ~ 6.0'	
UNITS	ug/Kg
VOCs	<MDL
PNAs	<MDL
PCBs	<MDL
Cd	740
Cr	8,070
Pb	12,000

SB-3	10/25/2018
2.0 ~ 3.0'	
UNITS	ug/Kg
VOCs	<MDL
PNAs	<MDL
PCBs	<MDL
Cd	630
Cr	5,460
Pb	12,800

SB-1	10/25/2018
4.0 ~ 5.0'	
UNITS	ug/Kg
2-M	1,400
NAPH	6,400
OTHER VOCs	<MDL
B(a)ANTH	400
B(a)PYR	300
B(b)FLA	400
B(g,h,i)PER	600
CHRYSENE	400
FL	900
NAPH	300
Ph	1,500
Py	1,200
2-M	800
OTHER PNAs	<MDL
PCBs	<MDL
Cd	530
Cr	10,600
Pb	201,000

SB-2	10/25/2018
3.0 ~ 4.0'	
UNITS	ug/Kg
CHLOROMETHANE	500
2-M	1,900
NAPH	5,900
OTHER VOCs	<MDL
ACE	1,100
ANT	3,300
B(a)ANTH	5,900
B(a)PYR	4,300
B(b)FLA	6,400
B(k)FLA	1,600
B(g,h,i)PER	8,500
CHRYSENE	5,600
DI(A,H)ANT	300
FL	14,100
F	900
I(1,2,3-CD)PY	1,900
NAPH	800
Ph	2,200
Py	14,700
2-M	11,400
OTHER PNAs	<MDL
PCBs	<MDL
Cd	920
Cr	4,170
Pb	72,500

SB-4	10/26/2018
4.5 ~ 5.5'	
UNITS	ug/Kg
VOCs	<MDL
PNAs	<MDL
PCBs	<MDL
Cd	<MDL
Cr	4,800
Pb	6,830

SB-8	10/25/2018
2.0 ~ 3.0'	
UNITS	ug/Kg
VOCs	<MDL
PNAs	<MDL
PCBs	<MDL
Cd	400
Cr	23,700
Pb	10,000

SB-5	10/25/2018
9.0 ~ 10.0'	
UNITS	ug/Kg
CALCIUM	9,810
CHLORIDE	110
SODIUM	414

SB-12	10/26/2018
4.0 ~ 5.0'	
UNITS	ug/Kg
VOCs	<MDL
PNAs	<MDL

SB-7	10/25/2018
2.0 ~ 3.0'	
UNITS	ug/Kg
CHLOROMETHANE	700
OTHER VOCs	<MDL
PNAs	<MDL
PCBs	<MDL
Cd	970
Hex Cr	<MDL
Cr (TOTAL)	232,000
Pb	10,200

SB-13	10/26/2018
1.0 ~ 2.0'	
UNITS	ug/Kg
VOCs	<MDL
ACETHY	800
ANT	600
B(a)ANTH	3,200
B(a)PYR	3,200
B(b)FLA	4,600
B(k)FLA	1,100
B(g,h,i)PER	6,200
CHRYSENE	2,900
FL	5,600
I(1,2,3-CD)PY	1,400
Py	1,500
2-M	4,800
OTHER PNAs	<MDL

SB-14	10/26/2018
1.0 ~ 2.0'	
UNITS	ug/Kg
2-M	19,000
NAPH	3,000
T	800
1,2,3-TMB	3,600
1,2,4-TMB	2,600
1,3,5-TMB	2,100
X	700
OTHER VOCs	<MDL
ACE	1,300
ANT	800
B(a)ANTH	1,800
B(a)PYR	1,600
B(b)FLA	2,800
B(k)FLA	900
B(g,h,i)PER	3,700
CHRYSENE	2,000
FL	3,900
F	1,800
I(1,2,3-CD)PY	1,000
NAPH	10,000
Ph	2,400
Py	5,000
2-M	4,000
OTHER PNAs	<MDL
Pb	134,000

SB-6	10/25/2018
4.0 ~ 5.0'	
UNITS	ug/Kg
CALCIUM	108,000
CHLORIDE	30
SODIUM	149

SB-6	10/25/2018
11.0 ~ 12.0'	
UNITS	ug/Kg
CALCIUM	86,500
CHLORIDE	292
SODIUM	10



FIGURE 4a

SOIL BORING / TEMPORARY MONITORING WELL LOCATION MAP WITH SOIL ANALYTICAL RESULTS

PROJ: FORMER WAYNE COUNTY PHOENIX YARD
14973 NORTHVILLE ROAD
PLYMOUTH TOWNSHIP, MI

THIS IS NOT A LEGAL SURVEY

DRN BY: CS/RC/CS DATE: 12/17/2018

VERIFY SCALE 0 60'

CHKD BY: TH SCALE: 1" = 60'

IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

FILE NAME: 01-9781-0-003F00R00

LEGEND:

	SUBJECT PROPERTY FENCE
	FLOOR DRAIN
	BAYDOOR
	FORMER FUEL DISPENSER
	BRINE SUMP
	POLE MOUNTED TRANSFORMER
UST	UNDERGROUND STORAGE TANK
	SOIL BORING
	SOIL BORING / TEMPORARY MONITORING WELL
Cd	CADMIUM
Cr	CHROMIUM
Pb	LEAD
VOCs	VOLATILE ORGANIC COMPOUNDS
PNAs	POLYNUCLEAR AROMATIC COMPOUNDS
PCBs	POLYCHLORINATED BIPHENYLS
MDL	METHOD DETECTION LIMIT
UNITs	µg/Kg (UNLESS NOTED)
	VALUE EXCEEDS APPLICABLE CRITERIA

NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED

#	DESCRIPTION
A	STORAGE BUILDING WITH FORMER MACHINING OPERATIONS
B	STORAGE BUILDING WITH FORMER SERVICE OPERATIONS
C	SUBJECT BUILDING WITH FORMER ELECTRICAL PARTS FACTORY AND PAINTING/SERVICE OPERATIONS

TMW-10
10/25/2018
7.08 ~ 12.08' SCREEN
UNITS ug/L
VOCs <MDL
PNAs <MDL
Cd <MDL
Cr <MDL
Pb <MDL

TMW-1
10/25/2018
3.94 ~ 8.94' SCREEN
UNITS ug/L
VOCs <MDL
PNAs <MDL
Cd <MDL
Cr <MDL
Pb <MDL

TMW-2
10/25/2018
9.88 ~ 14.88' SCREEN
UNITS ug/L
VOCs <MDL
PNAs <MDL
Cd <MDL
Cr <MDL
Pb <MDL

TMW-5
10/25/2018
2.71 ~ 7.71' SCREEN
UNITS ug/L
CALCIUM 89,900
CHLORIDE 55,000
SODIUM 29,900

TMW-6
10/25/2018
2.89 ~ 7.89' SCREEN
UNITS ug/L
CALCIUM 95,900
CHLORIDE 80,000
SODIUM 61,000

TMW-14
10/26/2018
1.67 ~ 6.67' SCREEN
UNITS ug/L
VOCs <MDL
PNAs <MDL
Pb <MDL

TMW-12
10/26/2018
3.71 ~ 8.71' SCREEN
UNITS ug/L
VOCs <MDL
PNAs <MDL
Cd <MDL
Cr <MDL
Pb <MDL

LOCATION OF FORMER 6,000-GALLON DIESEL UST (REMOVED 1993)

LOCATION OF FORMER 6,000-GALLON GASOLINE UST (REMOVED 1993)

(2) 12,000-GALLON CALCIUM CHLORIDE USTs

HEAVY PETROLEUM STAINING
(2) 55-GALLON DRUMS
6,000-GALLON DIESEL UST



FIGURE 4b
SOIL BORING / TEMPORARY MONITORING WELL
LOCATION MAP WITH GROUNDWATER
ANALYTICAL RESULTS

PROJ: FORMER WAYNE COUNTY PHOENIX YARD 14973 NORTHVILLE ROAD PLYMOUTH TOWNSHIP, MI		
THIS IS NOT A LEGAL SURVEY	DRN BY: CS/RC/CS	DATE: 12/14/2018
VERIFY SCALE 0 60'	CHKD BY: TH	SCALE: 1" = 60'
IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.		
FILE NAME: 01-9781-0-003F00R00		

FIGURE 5: COLOR SITE PHOTOGRAPHS







FIGURE 6: INFRASTRUCTURE IMPROVEMENT MAP

See Figure 9

FIGURE 7: SITE PREPARATION MAP

See Figure 9

FIGURE 8: REDEVELOPMENT PROJECT RENDERINGS

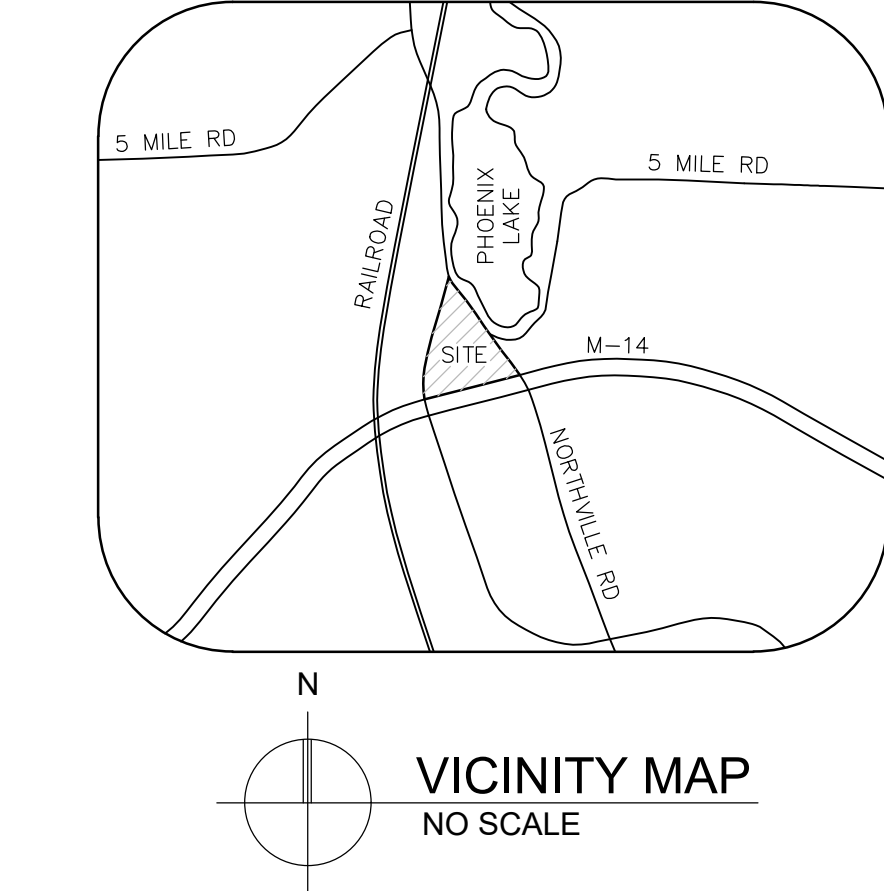
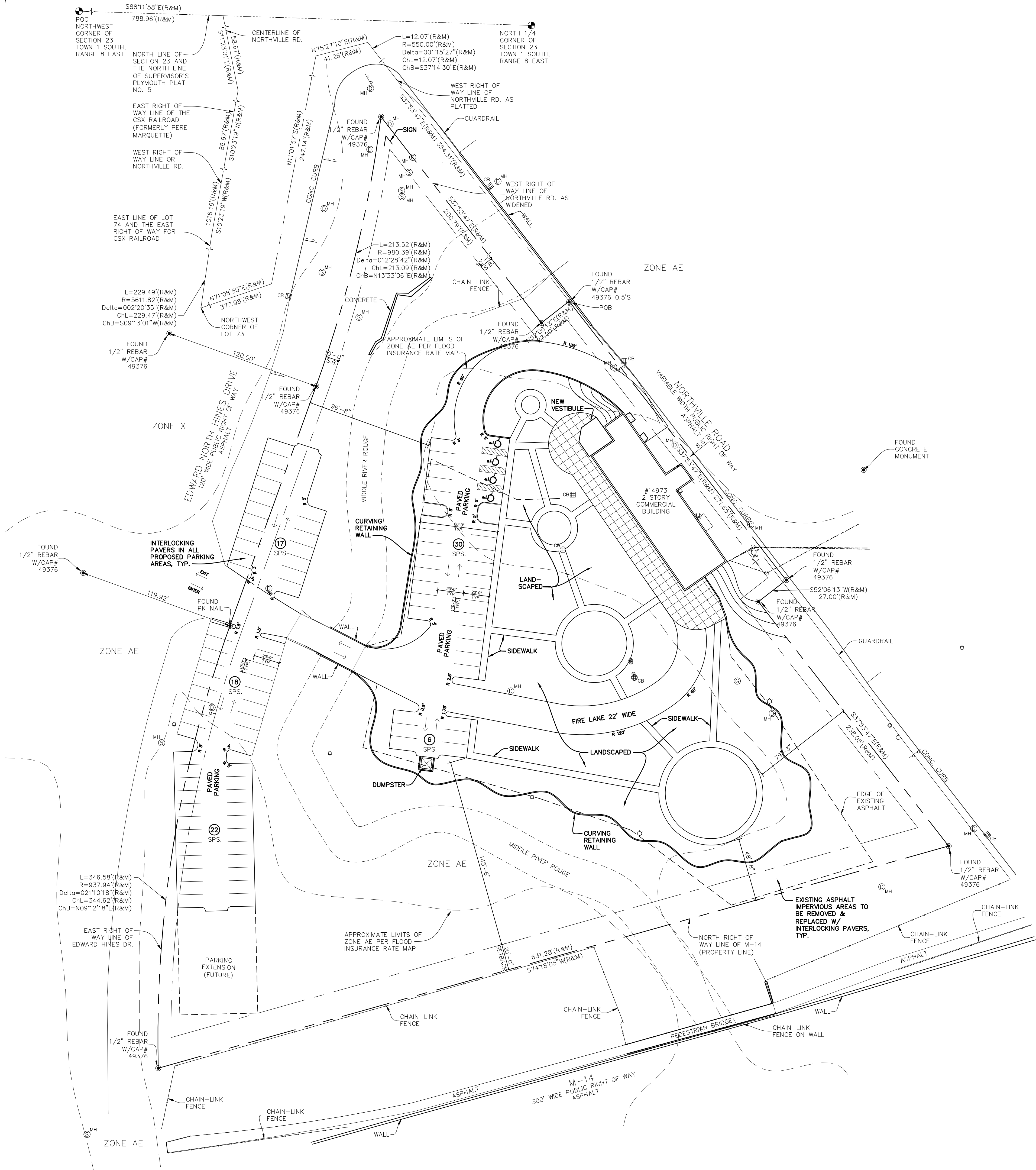


LEGEND		
EXISTING	DESCRIPTION	PROPOSED
	TREE - DECIDUOUS	
	TREE - CONIFEROUS	
	CATCH BASIN	
	FIRE HYDRANT	
	GAS METER	
	SANITARY MANHOLE	
	STORM DRAIN MANHOLE	
	GATE VALVE AND WELL	
	GAS MANHOLE	
	GAS FILL	
	UNKNOWN MANHOLE	
	CLEANOUT	
	WATER VALVE	
	WATER METER	
	ELECTRIC METER	
	ELECTRIC TRANSFORMER	
	ELECTRIC HANDHOLE	
	BOLLARD	
	LIGHT POST	
	SINGLE POST SIGN	
	DOUBLE POST SIGN	
	UTILITY POLE	
	UTILITY POLE w/ LIGHT	
	GUY WIRE ANCHOR	
	TELEPHONE PEDESTAL	
	TELEPHONE MANHOLE	
	FOUND SECTION CORNER (AS NOTED)	
	CONTOUR LINES	
	SANITARY	
	STORM	
	WATER MAIN	
	GAS	
	OVERHEAD ELEC.	
	PARCEL BOUNDARY LINE	
	FENCE (AS NOTED)	
	EDGE OF WATER (AS NOTED)	
	FLOOD ZONE (AS NOTED)	

PROPERTY DESCRIPTION

LAND SITUATED IN THE TOWNSHIP OF PLYMOUTH, COUNTY OF WAYNE, STATE OF MICHIGAN, MORE PARTICULARLY DESCRIBED AS:

A PART OF LOTS 73 AND 76, OF "SUPERVISOR'S PLYMOUTH PLAT NO. 5 AS RECORDED IN LIBER 66 OF PLATS, PAGE 36, RECORDS OF WAYNE COUNTY, MICHIGAN, BEING MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE NORTHWEST CORNER OF SECTION 23, TOWN 1 SOUTH, RANGE 8 EAST, PLYMOUTH TOWNSHIP, WAYNE COUNTY, MICHIGAN; THENCE SOUTH 88 DEGREES 11 MINUTES 58 SECONDS EAST 788.96 FEET ALONG THE NORTH LINE OF SECTION 23, BEING ALSO THE NORTH LINE OF SUPERVISOR'S PLYMOUTH PLAT NO. 5 TO A POINT IN THE CENTERLINE OF NORTHVILLE ROAD AS PLATTED; THENCE SOUTH 11 DEGREES 23 MINUTES 01 SECONDS EAST 58.67 FEET ALONG SAID CENTERLINE TO THE EAST RIGHT OF WAY LINE OF THE CSX RAILROAD (FORMERLY PERE MARQUETTE); THENCE SOUTH 10 DEGREES 23 MINUTES 19 SECONDS WEST 88.97 FEET ALONG SAID LINE TO THE WEST RIGHT OF WAY LINE OF NORTHVILLE ROAD, BEING ALSO THE NORTH-MOST POINT OF LOT 87 AND A CORNER OF LOT 74 OF SAID PLAT; THENCE THE FOLLOWING TWO (2) COURSES ALONG THE EAST LINE OF LOT 74, BEING ALSO THE EAST RIGHT OF WAY FOR CSX RAILROAD: (1) SOUTH 10 DEGREES 23 MINUTES 19 SECONDS WEST 1,016.16 FEET, AND (2) 229.49 FEET ALONG A TANGENT CURVE TO THE LEFT, SAID CURVE HAVING A RADIUS OF 5611.82 FEET, A CENTRAL ANGLE OF 2 DEGREES 20 MINUTES 35 SECONDS, AND LONG CHORD BEARING SOUTH 09 DEGREES 13 MINUTES 01 SECONDS WEST 229.47 FEET TO THE NORTHWEST CORNER OF LOT 73; THENCE NORTH 71 DEGREES 08 MINUTES 50 SECONDS EAST 377.98 FEET; THENCE NORTH 11 DEGREES 01 MINUTES 57 SECONDS EAST 247.14 FEET; THENCE NORTH 75 DEGREES 27 MINUTES 10 SECONDS EAST 41.26 FEET TO A POINT ON THE WEST RIGHT OF WAY LINE OF NORTHVILLE ROAD AS PLATTED; THENCE THE FOLLOWING TWO COURSES ALONG SAID WEST PLATTED RIGHT OF WAY LINE: (1) ALONG A NON-TANGENT CURVE TO THE LEFT 12.07 FEET, SAID CURVE HAVING A RADIUS OF 550.00 FEET, A CENTRAL ANGLE OF 1 DEGREES 15 MINUTES 27 SECONDS, AND A LONG CHORD BEARING SOUTH 37 DEGREES 14 MINUTES 30 SECONDS EAST 12.07 FEET, AND (2) SOUTH 37 DEGREES 53 MINUTES 47 SECONDS EAST 271.65 FEET TO THE POINT OF BEGINNING; THENCE THE FOLLOWING THREE (3) COURSES ALONG THE WEST RIGHT OF WAY LINE OF NORTHVILLE ROAD AS WIDENED: (1) SOUTH 37 DEGREES 53 MINUTES 47 SECONDS EAST 271.65 FEET, AND (2) SOUTH 52 DEGREES 06 MINUTES 13 SECONDS WEST 27.00 FEET, AND (3) SOUTH 37 DEGREES 53 MINUTES 47 SECONDS EAST 238.05 FEET TO A POINT ON THE NORTH RIGHT OF WAY LINE OF M-14 (300 FEET WIDE); THENCE SOUTH 74 DEGREES 18 MINUTES 05 SECONDS WEST 631.28 FEET ALONG SAID NORTH RIGHT OF WAY LINE TO A POINT ON THE EAST RIGHT OF WAY LINE OF EDWARD HINES DRIVE (120 FEET WIDE); THENCE THE FOLLOWING THREE COURSES ALONG SAID EAST RIGHT OF WAY LINE: (1) ALONG A NON-TANGENT CURVE TO THE RIGHT 346.58 FEET, SAID CURVE HAVING A RADIUS OF 937.94 FEET, A CENTRAL ANGLE OF 21 DEGREES 10 MINUTES 18 SECONDS, AND A LONG CHORD BEARING NORTH 09 DEGREES 12 MINUTES 18 SECONDS EAST 344.62 FEET, AND (2) NORTH 19 DEGREES 47 MINUTES 27 SECONDS EAST 195.70 FEET, AND (3) ALONG A TANGENT CURVE TO THE LEFT 213.52 FEET, SAID CURVE HAVING A RADIUS OF 980.39 FEET, A CENTRAL ANGLE OF 12 DEGREES 28 MINUTES 42 SECONDS, AND A LONG CHORD BEARING NORTH 13 DEGREES 33 MINUTES 06 SECONDS EAST 213.09 FEET TO A POINT ON THE WEST RIGHT OF WAY OF NORTHVILLE ROAD AS WIDENED; THENCE THE FOLLOWING TWO (2) COURSES ALONG SAID WEST RIGHT OF WAY LINE: (1) SOUTH 37 DEGREES 53 MINUTES 47 SECONDS EAST 200.79 FEET, AND NORTH 52 DEGREES 06 MINUTES 13 SECONDS EAST 27.00 FEET TO THE POINT OF BEGINNING.



SITE DATA

ZONING:	C2 GENERAL COMMERCIAL DISTRICT
SITE AREA	= 224,535 SF
LOT COVERAGE	= 3.9%
BUILDING AREA	= 14,235 SF
IMPERVIOUS AREA	= 8,732 SF
ASPHALT	= 48,545 SF
CONCRETE	= 9,247 SF
TOTAL IMPERVIOUS	= 66,524 SF

BUIDLING LIMITATIONS

	REQ'D	PROPOSED
SETBACKS:		
FRONT	= 10'	8'-6"
REAR	= 20'	20'
SIDES	= 10'	10'
HEIGHT	= 35' & 2 STORIES	35' & 2 STORIES

PARKING

OFFICE	= 5,000 SF
1 SPACE / 200 SF	= 25 SPACES
MUNICIPAL RECREATION	= 5,000 SF
1 SPACE / 100 SF	= 50 SPACES + 20 ADD'L FOR OUTDOOR ACTIVITIES
TOTAL PARKING REQUIRED	= 95 SPACES
TOTAL PARKING PROVIDED	= 92 SPACES

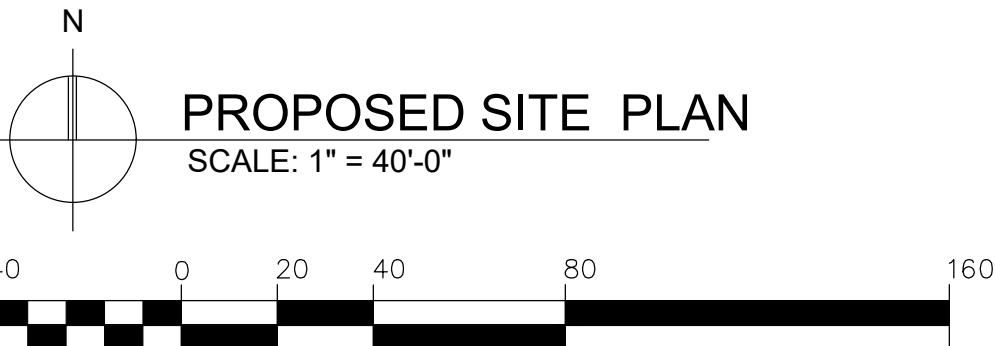




FIGURE 10: LEGAL DESCRIPTION

A PART OF LOTS 73 AND 76 OF SUPERVISOR'S PLYMOUTH PLAT NUMBER 5 AS RECORDED IN LIBER 66 OF PLATS, PAGE 36 IN THE NORTHWEST ¼ OF SECTION 23, T1S, R8E, PLYMOUTH TOWNSHIP, WAYNE COUNTY, MI, BEING MORE PARTICULARLY DESCRIBED AS:

COMMENCING AT THE NORTHWEST CORNER OF SECTION 23; THENCE S88° 11' 58"E, 788.96 FEET ALONG THE NORTH LINE OF SECTION 23, BEING ALSO THE NORTH LINE OF SUPERVISOR'S PLYMOUTH PLAT NUMBER 5 TO A POINT IN THE CENTERLINE OF NORTHVILLE ROAD AS PLATTED; THENCE S11°23'01"E, 58.67 FEET ALONG SAID CENTERLINE TO THE EAST RIGHT OF WAY LINE OF THE CSX RAILROAD (FORMERLY PERE MARQUETTE); THENCE S10° 23' 19"W, 88.97 FEET ALONG SAID LINE TO THE WEST RIGHT OF WAY LINE OF NORTHVILLE ROAD, BEING ALSO THE NORTH-MOST POINT OF LOT 87 AND A CORNER OF LOT 74 OF SAID PLAT; THENCE THE FOLLOWING TWO (2) COURSES ALONG THE EAST LINE OF LOT 74, BEING ALSO THE EAST RIGHT OF WAY FOR CSX RAILROAD: (1) S10° 23' 19"W, 1016.16 FEET, AND (2) 229.49 FEET ALONG A TANGENT CURVE TO THE LEFT, SAID CURVE HAVING A RADIUS OF 5611.82 FEET, A CENTRAL ANGLE OF 2° 20' 35", AND LONG CHORD BEARING S09° 13' 01"W, 229.47 FEET TO THE NORTHWEST CORNER OF LOT 73; THENCE N71° 08' 50"E, 377.98 FEET; THENCE N11° 01' 57"E, 247.14 FEET; THENCE N75° 27' 10"E, 41.26 FEET TO A POINT ON THE WEST RIGHT OF WAY LINE OF NORTHVILLE ROAD AS PLATTED; THENCE THE FOLLOWING TWO COURSES ALONG SAID WEST PLATTED RIGHT OF WAY: (1) ALONG A NON-TANGENT CURVE TO THE LEFT 12.07 FEET, SAID CURVE HAVING A RADIUS OF 550.00 FEET, A CENTRAL ANGLE OF 1° 15' 27", AND A LONG CHORD BEARING S37° 14' 30"E, 12.07 FEET, AND (2) S37° 53' 47"E, 354.31 FEET TO THE POINT OF BEGINNING; THENCE THE FOLLOWING THREE (3) COURSES ALONG THE WEST RIGHT OF WAY OF NORTHVILLE ROAD AS WIDENED: (1) S37° 53' 47"E, 271.65 FEET, AND (2) S52° 06' 13"W, 27.00 FEET, AND (3) S37° 53' 47"E, 238.05 FEET TO A POINT ON THE NORTH RIGHT OF WAY LINE ON M-14 (300 FEET WIDE); THENCE S74° 18' 05"W, 631.28 FEET ALONG SAID NORTH RIGHT OF WAY LINE TO A POINT ON THE EAST RIGHT OF WAY LINE OF EDWARD HINES DRIVE (120 FEET WIDE); THENCE THE FOLLOWING THREE COURSES ALONG SAID EAST RIGHT OF WAY LINE: (1) ALONG A NON-TANGENT CURVE TO THE RIGHT 346.58 FEET, SAID CURVE HAVING A RADIUS OF 937.94 FEET, A CENTRAL ANGLE OF 21° 10' 18", AND A LONG CHORD BEARING N09° 12' 18"E, 344.62 FEET, AND (2) N19° 47' 27"E, 195.70 FEET, AND (3) ALONG A TANGENT CURVE TO THE LEFT 213.52 FEET, SAID CURVE HAVING A RADIUS OF 980.39 FEET, A CENTRAL ANGLE OF 12° 28' 42", AND A LONG CHORD BEARING N13° 33' 06"E, 213.09 FEET TO A POINT ON THE WEST RIGHT OF WAY OF NORTHVILLE ROAD AS WIDENED; THENCE THE FOLLOWING TWO (2) COURSES ALONG SAID WEST RIGHT OF WAY LINE: (1) S37° 53' 47"E, 200.79 FEET, AND N52° 06' 13"E, 27.00 FEET TO THE POINT OF BEGINNING AND CONTAINING 5.155 ACRES.

FIGURE 11: DOCUMENTATION OF ELIGIBILITY

 GRETCHEN WHITMER GOVERNOR	STATE OF MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY SOUTHEAST MICHIGAN DISTRICT OFFICE	 LIESL EICHLER CLARK DIRECTOR
---	--	--

March 7, 2019

ACKNOWLEDGEMENT OF RECEIPT OF A BASELINE ENVIRONMENTAL ASSESSMENT

BEA ID: 82006929-BEA-1

Legal Entity:
 Critical Mass, LLC
 Attention: Gregory Donofrio, Member
 P.O. Box 5380
 Northville, Michigan 48167

Property Address:
 14973 Northville Road
 Plymouth Township, Michigan 48170

On March 1, 2019, the Michigan Department of Environmental Quality (MDEQ) received a Baseline Environmental Assessment (BEA) dated December 26, 2018, for the above legal entity and property. This letter is your acknowledgement that the MDEQ has received and recorded the BEA. The MDEQ maintains an administrative record of each BEA as received.

This BEA was submitted pursuant to Section 20126(1)(c) of Part 201, Environmental Remediation and/or Section 21323a(1)(b) of Part 213, Leaking Underground Storage Tanks, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA). A BEA is submitted for the purpose of establishing an exemption to liability for a new owner or operator of property that has been demonstrated to be a facility or property as defined by Section 20101(1)(s) of Part 201, Environmental Remediation and/or property as defined by Section 21303(d) of Part 213, Leaking Underground Storage Tanks, of the NREPA. Pursuant to Sections 20126(1)(c) and 21323a(1)(b), the conditions of this exemption require the legal entity to disclose the BEA to a subsequent purchaser or transferee of the property.

The BEA is only for the legal entity and property identified in the BEA and on the BEA Submittal Form. Each new legal entity that becomes the owner or operator of this facility must submit their own BEA.

27700 DONALD COURT • WARREN, MICHIGAN 48092-2793
 www.michigan.gov/deq • (586) 753-3700

Critical Mass, LLC
Page 2
March 7, 2019

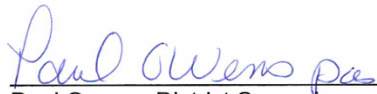
The MDEQ is not making any findings about the adequacy of the submittal or whether the submitter is liable or is eligible to submit. The submitted BEA does not alter liability with regard to a subsequent release, threat of release, or exacerbation of existing conditions that is the responsibility of the legal entity submitting the BEA.

The legal entity, as the owner and/or operator of a facility or property, may have Due Care responsibilities under Section 20107a of Part 201, Environmental Remediation and/or Section 21304c of Part 213, Leaking Underground Storage Tanks, of the NREPA.

The legal entity may also have responsibility under applicable state and federal laws, including, but not limited to, Part 201, Environmental Remediation; Part 111, Hazardous Waste Management; Part 211, Underground Storage Tank Regulations; Part 213, Leaking Underground Storage Tanks; Part 615, Supervisor of Wells, of the NREPA; and the Michigan Fire Prevention Code, 1941 PA 207, as amended.

Pursuant to Section 20112a(6) of Part 201, Environmental Remediation, the property(s) identified in the BEA will be placed on the inventory of facilities, which is updated daily and posted on the DEQ's website: <https://secure1.state.mi.us/FacilitiesInventoryQueries>.

Authorized signature:

A handwritten signature in blue ink that reads "Paul Owens" followed by a stylized "pa".

Paul Owens, District Supervisor
Southeast Michigan District Office
Remediation and Redevelopment Division
27700 Donald Court
Warren, Michigan 48092
586-235-6990
owensp@michigan.gov

Enclosure

cc: Ms. Jennifer Ritchie, PM Environmental, Inc.

EXHIBITS - TABLES

TABLE 1: ELIGIBLE ACTIVITIES COSTS AND SCHEDULE

DEQ Eligible Activities Costs and Schedule			
DEQ Eligible Activities	Cost		Completion Season/Year
Department-Specific Activities			
Pre-Approved Activities			
Phase I ESA	\$ 2,800		4Q 2018
Phase II ESA/BEA/DDCC	\$ 17,425		1Q 2019
Hazardous Material Survey	\$ 3,500		2Q 2019
Due Care Activities and Oversight, Sampling, and Reporting by Environmental Professional	\$ 10,000		2019
Lead, Asbestos, Mold Abatement Subtotal			
Asbestos and Lead Abatement, Oversight, Monitoring and Reporting	\$ 33,725		
DEQ Eligible Activities Subtotal		\$ 67,450	
Contingency (15%)*		\$ 6,559	
Interest (3%)**		\$ 35,788	
Brownfield Plan and Act 381 Work Plan Preparation and Implementation		\$ 20,000	2019
DEQ Eligible Activities Total		\$ 129,797	

Local Only MSF Eligible Activities Costs and Schedule			
MSF Eligible Activities	Cost		Completion Season/Year
Demolition Subtotal			
Demolition of Abandoned Metal Sheds	\$ 40,000		3Q 2019
Foundation Removal for Metal Sheds	\$ 10,000		3Q 2019
Fill/Compaction/Rough Grading under Demolition sites	\$ 15,500		3Q 2019
Removal of Abandoned Utilities	\$ 12,000		3Q 2019
Removal of Excessive Parking Lot Space for Reduced Water Runoff	\$ 100,000		3Q 2019
Removal of Diesel UST, Backfill, Site Sampling and Reporting	\$ 18,320		2Q 2019
Professional Fees Related to Geotechnical, Engineering & Design Work Directly Related to Demolition Activities	\$ 17,624		2019
		\$ 213,444	
Lead, Asbestos, Mold Abatement Subtotal			
Asbestos and Lead Abatement, Oversight, Monitoring and Reporting	\$ 91,275		2019
		\$ 91,275	
MSF Eligible Activities Subtotal		\$ 304,719	
Contingency (15%)*		\$ 45,708	
Interest (3%)**		\$ 161,677	
Brownfield Plan and Act 381 Work Plan Preparation and Implementation		\$ -	2019
MSF Eligible Activities Total		\$ 512,104	

*15% Contingency not applied to Pre-Approved Activities and Preparation of Brownfield/Act381 Work Plan

** Interest calculated with MSF and DEQ Interest Calculator

Tax Increment Revenue Capture Estimates
The Henry Project - Phoenix Mill Restoration
14973 Northville Rd.
Plymouth Township, Michigan
June 10, 2019

Estimated Taxable Value (TV) Increase Rate:

1% per year

Plan Year	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Calendar Year	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
*Base Taxable Value	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160
Estimated New TV		\$ 700,000	\$ 707,000	\$ 714,070	\$ 721,211	\$ 728,423	\$ 735,707	\$ 743,064	\$ 750,495	\$ 758,000	\$ 765,580	\$ 773,235	\$ 780,968	\$ 788,778	\$ 796,665	\$ 804,632	\$ 812,678	\$ 820,805
Incremental Difference (New TV - Base TV)		\$ 506,840	\$ 513,840	\$ 520,910	\$ 528,051	\$ 535,263	\$ 542,547	\$ 549,904	\$ 557,335	\$ 564,840	\$ 572,420	\$ 580,075	\$ 587,808	\$ 595,618	\$ 603,505	\$ 611,472	\$ 619,518	\$ 627,645

School Capture	Millage Rate																																				
State Education Tax (SET)	6.0000	\$	1,159	\$	3,041	\$	3,083	\$	3,125	\$	3,168	\$	3,212	\$	3,255	\$	3,299	\$	3,344	\$	3,389	\$	3,435	\$	3,480	\$	3,527	\$	3,574	\$	3,621	\$	3,669	\$	3,717	\$	3,766
School Operating Tax	18.0000	\$	3,477	\$	9,123	\$	9,249	\$	9,376	\$	9,505	\$	9,635	\$	9,766	\$	9,898	\$	10,032	\$	10,167	\$	10,304	\$	10,441	\$	10,581	\$	10,721	\$	10,863	\$	11,006	\$	11,151	\$	11,298
School Total	24.0000			\$	12,164	\$	12,332	\$	12,502	\$	12,673	\$	12,846	\$	13,021	\$	13,198	\$	13,376	\$	13,556	\$	13,738	\$	13,922	\$	14,107	\$	14,295	\$	14,484	\$	14,675	\$	14,868	\$	15,063

Local Capture	Millage Rate																																				
Wayne County	6.6380	\$	1,282	\$	3,364	\$	3,411	\$	3,458	\$	3,505	\$	3,553	\$	3,601	\$	3,650	\$	3,700	\$	3,749	\$	3,800	\$	3,851	\$	3,902	\$	3,954	\$	4,006	\$	4,059	\$	4,112	\$	4,166
Plymouth Township	0.8154	\$	158	\$	413	\$	419	\$	425	\$	431	\$	436	\$	442	\$	448	\$	454	\$	461	\$	467	\$	473	\$	479	\$	486	\$	492	\$	499	\$	505	\$	512
Wayne County Jail	0.9381	\$	181	\$	475	\$	482	\$	489	\$	495	\$	502	\$	509	\$	516	\$	523	\$	530	\$	537	\$	544	\$	551	\$	559	\$	566	\$	574	\$	581	\$	589
Community College	1.7662	\$	341	\$	895	\$	908	\$	920	\$	933	\$	945	\$	958	\$	971	\$	984	\$	998	\$	1,011	\$	1,025	\$	1,038	\$	1,052	\$	1,066	\$	1,080	\$	1,094	\$	1,109
RESA - Sp Ed	3.3678	\$	651	\$	1,707	\$	1,731	\$	1,754	\$	1,778	\$	1,803	\$	1,827	\$	1,852	\$	1,877	\$	1,902	\$	1,928	\$	1,954	\$	1,980	\$	2,006	\$	2,032	\$	2,059	\$	2,086	\$	2,114
RESA - Oper	0.0965	\$	19	\$	49	\$	50	\$	50	\$	51	\$	52	\$	52	\$	53	\$	54	\$	55	\$	55	\$	56	\$	57	\$	57	\$	58	\$	59	\$	60	\$	61
RESA - Enhance	2.0000	\$	386	\$	1,014	\$	1,028	\$	1,042	\$	1,056	\$	1,071	\$	1,085	\$	1,100	\$	1,115	\$	1,130	\$	1,145	\$	1,160	\$	1,176	\$	1,191	\$	1,207	\$	1,223	\$	1,239	\$	1,255
Police - Fire (1,2,3)	3.3939	\$	656	\$	1,720	\$	1,744	\$	1,768	\$	1,792	\$	1,817	\$	1,841	\$	1,866	\$	1,892	\$	1,917	\$	1,943	\$	1,969	\$	1,995	\$	2,021	\$	2,048	\$	2,075	\$	2,103	\$	2,130
Fire	0.9927	\$	192	\$	503	\$	510	\$	517	\$	524	\$	531	\$	539	\$	546	\$	553	\$	561	\$	568	\$	576	\$	584	\$	591	\$	599	\$	607	\$	615	\$	623
Wayne County Parks	0.2459	\$	47	\$	125	\$	126	\$	128	\$	130	\$	132	\$	133	\$	135	\$	137	\$	139	\$	141	\$	143	\$	145	\$	146	\$	148	\$	150	\$	152	\$	154
HCMA	0.2129	\$	41	\$	108	\$	109	\$	111	\$	112	\$	114	\$	116	\$	117	\$	119	\$	120	\$	122	\$	123	\$	125	\$	127	\$	128	\$	130	\$	132	\$	134
Plymouth Library	1.4615	\$	282	\$	741	\$	751	\$	761	\$	772	\$	782	\$	793	\$	804	\$	815	\$	826	\$	837	\$	848	\$	859	\$	870	\$	882	\$	894	\$	905	\$	917
Local Total	21.9289		\$	11,114	\$	11,268	\$	11,423	\$	11,580	\$	11,738	\$	11,897	\$	12,059	\$	12,222	\$	12,386	\$	12,553	\$	12,720	\$	12,890	\$	13,061	\$	13,234	\$	13,409	\$	13,585	\$	13,764	

Non-Capturable Millages	Millage Rate																																				
Zoo Authority (Wayne County)	0.1000	\$	19	\$	51	\$	51	\$	52	\$	53	\$	54	\$	54	\$	55	\$	56	\$	56	\$	57	\$	58	\$	59	\$	60	\$	60	\$	61	\$	62	\$	63
Art Institute (Wayne County)	0.2000	\$	39	\$	101	\$	103	\$	104	\$	106	\$	107	\$	109	\$	110	\$	111	\$	113	\$	114	\$	116	\$	118	\$	119	\$	121	\$	122	\$	124	\$	126
School Debt	4.0253	\$	778	\$	2,040	\$	2,068	\$	2,097	\$	2,126	\$	2,155	\$	2,184	\$	2,214	\$	2,243	\$	2,274	\$	2,304	\$	2,335	\$	2,366	\$	2,398	\$	2,429	\$	2,461	\$	2,494	\$	2,526
Total Non-Capturable Taxes	4.3253	\$	835	\$	2,192	\$	2,223	\$	2,253	\$	2,284	\$	2,315	\$	2,347	\$	2,379	\$	2,411	\$	2,443	\$	2,476	\$	2,509	\$	2,542	\$	2,576	\$	2,610	\$	2,645	\$	2,680	\$	2,715

Total Tax Increment Revenue (TIR) Available for Capture	\$ -	\$ 23,279	\$ 23,600	\$ 23,925	\$ 24,253	\$ 24,584	\$ 24,919	\$ 25,256	\$ 25,598	\$ 25,942	\$ 26,291	\$ 26,642	\$ 26,997	\$ 27,356	\$ 27,718	\$ 28,084	\$ 28,454	\$ 28,827
---	------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

Tax Increment Revenue Capture Estimates
The Henry Project - Phoenix Mill Restoration
14973 Northville Rd.
Plymouth Township, Michigan
June 10, 2019

Estimated Taxable Value (TV) Increase Rate:

	Plan Year	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
	Calendar Year	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	
*Base Taxable Value	\$	193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	\$ 193,160	
Estimated New TV	\$	829,013	\$ 837,303	\$ 845,676	\$ 854,133	\$ 862,674	\$ 871,301	\$ 880,014	\$ 888,814	\$ 897,702	\$ 906,679	\$ 915,746	\$ 924,904	\$ 934,153	
Incremental Difference (New TV - Base TV)	\$	635,853	\$ 644,143	\$ 652,516	\$ 660,973	\$ 669,514	\$ 678,141	\$ 686,854	\$ 695,654	\$ 704,542	\$ 713,519	\$ 722,586	\$ 731,744	\$ 740,993	
School Capture	Millage Rate														
State Education Tax (SET)	6.0000	\$ 3,815	\$ 3,865	\$ 3,915	\$ 3,966	\$ 4,017	\$ 4,069	\$ 4,121	\$ 4,174	\$ 4,227	\$ 4,281	\$ 4,336	\$ 4,390	\$ 4,446	\$ 111,328
School Operating Tax	18.0000	\$ 11,445	\$ 11,595	\$ 11,745	\$ 11,898	\$ 12,051	\$ 12,207	\$ 12,363	\$ 12,522	\$ 12,682	\$ 12,843	\$ 13,007	\$ 13,171	\$ 13,338	\$ 333,983
School Total	24.0000	\$ 15,260	\$ 15,459	\$ 15,660	\$ 15,863	\$ 16,068	\$ 16,275	\$ 16,484	\$ 16,696	\$ 16,909	\$ 17,124	\$ 17,342	\$ 17,562	\$ 17,784	\$ 445,311
Local Capture	Millage Rate														
Wayne County	6.6380	\$ 4,221	\$ 4,276	\$ 4,331	\$ 4,388	\$ 4,444	\$ 4,502	\$ 4,559	\$ 4,618	\$ 4,677	\$ 4,736	\$ 4,797	\$ 4,857	\$ 4,919	\$ 123,166
Plymouth Township	0.8154	\$ 518	\$ 525	\$ 532	\$ 539	\$ 546	\$ 553	\$ 560	\$ 567	\$ 574	\$ 582	\$ 589	\$ 597	\$ 604	\$ 15,129
Wayne County Jail	0.9381	\$ 596	\$ 604	\$ 612	\$ 620	\$ 628	\$ 636	\$ 644	\$ 653	\$ 661	\$ 669	\$ 678	\$ 686	\$ 695	\$ 17,406
Community College	1.7662	\$ 1,123	\$ 1,138	\$ 1,152	\$ 1,167	\$ 1,182	\$ 1,198	\$ 1,213	\$ 1,229	\$ 1,244	\$ 1,260	\$ 1,276	\$ 1,292	\$ 1,309	\$ 32,771
RESA - Sp Ed	3.3678	\$ 2,141	\$ 2,169	\$ 2,198	\$ 2,226	\$ 2,255	\$ 2,284	\$ 2,313	\$ 2,343	\$ 2,373	\$ 2,403	\$ 2,434	\$ 2,464	\$ 2,496	\$ 62,488
RESA - Oper	0.0965	\$ 61	\$ 62	\$ 63	\$ 64	\$ 65	\$ 65	\$ 66	\$ 67	\$ 68	\$ 69	\$ 70	\$ 71	\$ 72	\$ 1,791
RESA - Enhance	2.0000	\$ 1,272	\$ 1,288	\$ 1,305	\$ 1,322	\$ 1,339	\$ 1,356	\$ 1,374	\$ 1,391	\$ 1,409	\$ 1,427	\$ 1,445	\$ 1,463	\$ 1,482	\$ 37,109
Police - Fire (1,2,3)	3.3939	\$ 2,158	\$ 2,186	\$ 2,215	\$ 2,243	\$ 2,272	\$ 2,302	\$ 2,331	\$ 2,361	\$ 2,391	\$ 2,422	\$ 2,452	\$ 2,483	\$ 2,515	\$ 62,973
Fire	0.9927	\$ 631	\$ 639	\$ 648	\$ 656	\$ 665	\$ 673	\$ 682	\$ 691	\$ 699	\$ 708	\$ 717	\$ 726	\$ 736	\$ 18,419
Wayne County Parks	0.2459	\$ 156	\$ 158	\$ 160	\$ 163	\$ 165	\$ 167	\$ 169	\$ 171	\$ 173	\$ 175	\$ 178	\$ 180	\$ 182	\$ 4,563
HCMA	0.2129	\$ 135	\$ 137	\$ 139	\$ 141	\$ 143	\$ 144	\$ 146	\$ 148	\$ 150	\$ 152	\$ 154	\$ 156	\$ 158	\$ 3,950
Plymouth Library	1.4615	\$ 929	\$ 941	\$ 954	\$ 966	\$ 978	\$ 991	\$ 1,004	\$ 1,017	\$ 1,030	\$ 1,043	\$ 1,056	\$ 1,069	\$ 1,083	\$ 27,118
Local Total	21.9289	\$ 13,944	\$ 14,125	\$ 14,309	\$ 14,494	\$ 14,682	\$ 14,871	\$ 15,062	\$ 15,255	\$ 15,450	\$ 15,647	\$ 15,846	\$ 16,046	\$ 16,249	\$ 406,882
Non-Capturable Millages	Millage Rate														
Zoo Authority (Wayne County)	0.1000	\$ 64	\$ 64	\$ 65	\$ 66	\$ 67	\$ 68	\$ 69	\$ 70	\$ 70	\$ 71	\$ 72	\$ 73	\$ 74	\$ 1,855
Art Institute (Wayne County)	0.2000	\$ 127	\$ 129	\$ 131	\$ 132	\$ 134	\$ 136	\$ 137	\$ 139	\$ 141	\$ 143	\$ 145	\$ 146	\$ 148	\$ 3,711
School Debt	4.0253	\$ 2,559	\$ 2,593	\$ 2,627	\$ 2,661	\$ 2,695	\$ 2,730	\$ 2,765	\$ 2,800	\$ 2,836	\$ 2,872	\$ 2,909	\$ 2,945	\$ 2,983	\$ 74,688
Total Non-Capturable Taxes	4.3253	\$ 2,750	\$ 2,786	\$ 2,822	\$ 2,859	\$ 2,896	\$ 2,933	\$ 2,971	\$ 3,009	\$ 3,047	\$ 3,086	\$ 3,125	\$ 3,165	\$ 3,205	\$ 80,254
Total Tax Increment Revenue (TIR) Available for Capture	\$	29,204	\$ 29,585	\$ 29,969	\$ 30,358	\$ 30,750	\$ 31,146	\$ 31,546	\$ 31,951	\$ 32,359	\$ 32,771	\$ 33,188	\$ 33,608	\$ 34,033	\$ 852,193

Tax Increment Revenue Reimbursement Allocation Table

The Henry Project - Phoenix Mill Restoration

14973 Northville Rd

Plymouth Township, MI

June 10, 2019

Developer Maximum Reimbursement	Proportionality	School & Local Taxes	Local-Only Taxes	Total
State	52.3%	\$ 104,984	\$ 24,813	\$ 129,797
Local	47.7%		\$ 382,070	\$ 382,070
TOTAL			\$ 406,882	\$ 511,867

Estimated Total Years of Plan:	30
-----------------------------------	----

Estimated Capture	
Administrative Fees	
State Brownfield Redevelopment Fund	\$ 16,176
Local Brownfield Revolving Fund	\$ -

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Total State Incremental Revenue	\$ 12,164	\$ 12,332	\$ 12,502	\$ 12,673	\$ 12,846	\$ 13,021	\$ 13,198	\$ 13,376	\$ 13,556	\$ 13,738							
State Brownfield Redevelopment Fund (50% of SET)	\$ 1,521	\$ 1,542	\$ 1,563	\$ 1,584	\$ 1,606	\$ 1,628	\$ 1,650	\$ 1,672	\$ 1,695	\$ 1,717							
State TIR Available for Reimbursement	\$ 10,644	\$ 10,791	\$ 10,939	\$ 11,089	\$ 11,241	\$ 11,393	\$ 11,548	\$ 11,704	\$ 11,862	\$ 12,021							
Total Local Incremental Revenue	\$ 11,114	\$ 11,268	\$ 11,423	\$ 11,580	\$ 11,738	\$ 11,897	\$ 12,059	\$ 12,222	\$ 12,386	\$ 12,553	\$ 12,720	\$ 12,890	\$ 13,061	\$ 13,234	\$ 13,409	\$ 13,585	\$ 13,764
BRA Administrative Fee (0%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Local TIR Available for Reimbursement	\$ 11,114	\$ 11,268	\$ 11,423	\$ 11,580	\$ 11,738	\$ 11,897	\$ 12,059	\$ 12,222	\$ 12,386	\$ 12,553	\$ 12,720	\$ 12,890	\$ 13,061	\$ 13,234	\$ 13,409	\$ 13,585	\$ 13,764
Total TIR Available	\$ 21,758	\$ 22,059	\$ 22,362	\$ 22,669	\$ 22,978	\$ 23,291	\$ 23,607	\$ 23,926	\$ 24,248	\$ 24,573	\$ 12,720	\$ 12,890	\$ 13,061	\$ 13,234	\$ 13,409	\$ 13,585	\$ 13,764

DEVELOPER	Beginning Balance																	
DEVELOPER Reimbursement Balance	\$ 641,900	\$ 620,142	\$ 598,083	\$ 575,721	\$ 553,053	\$ 530,074	\$ 506,783	\$ 483,177	\$ 459,251	\$ 435,003	\$ 418,676	\$ 405,956	\$ 393,066	\$ 380,005	\$ 366,770	\$ 353,362	\$ 339,776	\$ 326,013

MDEQ Environmental Costs	\$ 129,797																	
State Tax Reimbursement		\$ 10,644	\$ 10,791	\$ 10,939	\$ 11,089	\$ 11,241	\$ 11,393	\$ 11,548	\$ 11,704	\$ 11,862	\$ 3,774							
Local Tax Reimbursement		\$ 2,247	\$ 2,278	\$ 2,310	\$ 2,341	\$ 2,373	\$ 2,406	\$ 2,438	\$ 2,471	\$ 2,505	\$ 3,442							
Total MDEQ Reimbursement Balance		\$ 116,906	\$ 103,837	\$ 90,588	\$ 77,157	\$ 63,543	\$ 49,744	\$ 35,758	\$ 21,582	\$ 7,216	\$ -							

Local Only Costs	\$ 512,103																	
Local Tax Reimbursement		\$ 8,867	\$ 8,989	\$ 9,113	\$ 9,238	\$ 9,364	\$ 9,492	\$ 9,620	\$ 9,750	\$ 9,882	\$ 9,110	\$ 12,720	\$ 12,890	\$ 13,061	\$ 13,234	\$ 13,409	\$ 13,585	\$ 13,764
Total Local Only Reimbursement Balance		\$ 503,236	\$ 494,246	\$ 485,133	\$ 475,895	\$ 466,531	\$ 457,039	\$ 447,419	\$ 437,668	\$ 427,787	\$ 418,676	\$ 405,956	\$ 393,066	\$ 380,005	\$ 366,770	\$ 353,362	\$ 339,776	\$ 326,013
Total Annual Developer Reimbursement		\$ 21,758	\$ 22,059	\$ 22,362	\$ 22,669	\$ 22,978	\$ 23,291	\$ 23,607	\$ 23,926	\$ 24,248	\$ 16,327	\$ 12,720	\$ 12,890	\$ 13,061	\$ 13,234	\$ 13,409	\$ 13,585	\$ 13,764

Tax Increment Revenue Reimbursement Allocation Table
The Henry Project - Phoenix Mill Restoration
14973 Northville Rd
Plymouth Township, MI
June 10, 2019

	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	TOTAL
Total State Incremental Revenue														\$ 129,407
State Brownfield Redevelopment Fund (50% of State TIR Available for Reimbursement)														\$ 16,176
														\$ 113,231
Total Local Incremental Revenue	\$ 13,944	\$ 14,125	\$ 14,309	\$ 14,494	\$ 14,682	\$ 14,871	\$ 15,062	\$ 15,255	\$ 15,450	\$ 15,647	\$ 15,846	\$ 16,046	\$ 16,249	\$ 406,882
BRA Administrative Fee (0%)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Local TIR Available for Reimbursement	\$ 13,944	\$ 14,125	\$ 14,309	\$ 14,494	\$ 14,682	\$ 14,871	\$ 15,062	\$ 15,255	\$ 15,450	\$ 15,647	\$ 15,846	\$ 16,046	\$ 16,249	\$ 406,882
Total TIR Available	\$ 13,944	\$ 14,125	\$ 14,309	\$ 14,494	\$ 14,682	\$ 14,871	\$ 15,062	\$ 15,255	\$ 15,450	\$ 15,647	\$ 15,846	\$ 16,046	\$ 16,249	\$ 520,113
DEVELOPER														
DEVELOPER Reimbursement Balance	\$ 312,069	\$ 297,944	\$ 283,635	\$ 269,140	\$ 254,459	\$ 239,588	\$ 224,526	\$ 209,271	\$ 193,821	\$ 178,174	\$ 162,329	\$ 146,282	\$ 130,033	
MDEQ Environmental Costs														
State Tax Reimbursement														\$ 104,984
Local Tax Reimbursement														\$ 24,813
Total MDEQ Reimbursement Balance														
Local Only Costs														
Local Tax Reimbursement	\$ 13,944	\$ 14,125	\$ 14,309	\$ 14,494	\$ 14,682	\$ 14,871	\$ 15,062	\$ 15,255	\$ 15,450	\$ 15,647	\$ 15,846	\$ 16,046	\$ 16,249	\$ 382,070
Total Local Only Reimbursement Balance	\$ 312,069	\$ 297,944	\$ 283,635	\$ 269,140	\$ 254,459	\$ 239,588	\$ 224,526	\$ 209,271	\$ 193,821	\$ 178,174	\$ 162,329	\$ 146,282	\$ 130,033	
Total Annual Developer Reimbursement	\$ 13,944	\$ 14,125	\$ 14,309	\$ 14,494	\$ 14,682	\$ 14,871	\$ 15,062	\$ 15,255	\$ 15,450	\$ 15,647	\$ 15,846	\$ 16,046	\$ 16,249	\$ 511,867

**CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019**

NEW BUSINESS

**ITEM F.2
INTERGOVERNMENTAL AGREEMENT
WITH WAYNE COUNTY FOR
LITCHFIELD DRIVE SAD
RESOLUTION # 2019-08-27-75**



CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

MEETING DATE: **August 27, 2019**

ITEM: Intergovernmental Agreement with Wayne County for the Plymouth Notch (Litchfield Road) Special Assessment District Road Reconstruction Project, Resolution #2019-08-27-75

PRESENTER: **Supervisor Heise**

BACKGROUND:

On January 22 of this year, the Township Board authorized our full allocation of \$388,888.00 in 2018-19 Wayne County Road Funding to the Litchfield Road Special Assessment District Road Reconstruction Project and directed me to negotiate an Intergovernmental Agreement (IGA) with the County to receive those funds. Tonight I have for your consideration and support the attached IGA. This item has also been reviewed by Attorney Bennett.

PROPOSED MOTION: I move to adopt **Resolution #2019-08-27-75** authorizing the Supervisor and Clerk to sign the Interagency Agreement with Wayne County for the Plymouth Notch (Litchfield Road) Special Assessment District Road Reconstruction Project.

Moved by: _____ Seconded by: _____

ROLL CALL:

___Curmi, ___Dempsey, ___Doroshewitz, ___Heise, ___Heitman, ___Vorva, ___Clinton

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

**RESOLUTION TO APPROVE THE INTERGOVERNMENTAL AGREEMENT
BETWEEN THE COUNTY OF WAYNE AND PLYMOUTH TOWNSHIP FOR THE
LITCHFIELD DRIVE SPECIAL ASSESSMENT DISTRICT (SAD)**

RESOLUTION #2019-08-27-75

WHEREAS, Plymouth Township believes quality roads are a vital part of any community, and,

WHEREAS, certain road improvements are necessary to increase traffic safety and to encourage economic development, and,

WHEREAS, the County of Wayne has committed to assist Plymouth Township in the improvements to local roads within the township limits, and,

WHEREAS, Wayne County will provide payment to Plymouth Township up to 80% or the capped amount of \$388,888 as the COUNTY's participation of the total Project Costs, and,

WHEREAS, the Charter Township of Plymouth will pay the balance of the total Project Costs; and,

NOW, THEREFORE, BE IT RESOLVED that the Charter Township of Plymouth Board of Trustees does hereby approve **Resolution #2019-08-27-75** authorizing the proposed Agreement between Plymouth Township and the County of Wayne for the improvements of roads in the Township, and,

BE IT FURTHER RESOLVED that the Supervisor and Clerk are authorized to execute the Agreement on behalf of the Charter Township of Plymouth.

Moved by: _____ Seconded by: _____

ROLL CALL:

___Curmi, ___Dempsey, ___Doroshewitz, ___Heise, ___Heitman, ___Vorva, ___Clinton

INTERGOVERNMENTAL AGREEMENT

between

THE COUNTY OF WAYNE

and

PLYMOUTH TOWNSHIP

for

Local Partnering Initiative - 2018

Wayne County Work Order No. 95762

TABLE OF CONTENTS

INTRODUCTION	3
PROJECT DESCRIPTION.....	3
ARTICLE 1 DEFINITIONS	4
ARTICLE 2 PROJECT COSTS	5
ARTICLE 3 TERM OF CONTRACT	5
ARTICLE 4 TOWNSHIP’S RESPONSIBILITIES	6
ARTICLE 5 WAYNE COUNTY’S RESPONSIBILITIES.....	6
ARTICLE 6 COST SHARING	7
ARTICLE 7 PAYMENT TERMS.....	7
ARTICLE 8 WAIVER.....	8
ARTICLE 9 FORCE MAJEURE	8
ARTICLE 10 HOLD HARMLESS.....	8
ARTICLE 11 INSURANCE	8
ARTICLE 12 NOTICE.....	9
ARTICLE 13 TERMINATION	9
ARTICLE 14 BINDING EFFECT/INTEGRATION	10
SIGNATURES	11
ATTACHMENT A INSURANCE COVERAGES.....	12
ATTACHMENT B LOCAL ROADS INITIATIVE PROGRAM – PLYMOUTH TOWNSHIP	16

INTRODUCTION

THIS AGREEMENT, between the County of Wayne, Michigan, a body corporate and Charter county (hereinafter referred to as the “COUNTY”) and Plymouth Township, Michigan, a municipal corporation (hereinafter referred to as the “TOWNSHIP”).

This Agreement is made for the purpose of fixing the rights and obligations of the parties with respect to the following road improvements on Litchfield Drive, which is a COUNTY road located in the TOWNSHIP (hereinafter referred to as the “Project”):

PROJECT DESCRIPTION

Litchfield Drive Reconstruction: Concrete pavement with integral curb, full cross section reconstruction, as further described in **Attachment B**.

WHEREAS, the local roads in Plymouth Township are under the jurisdiction and control of the COUNTY, and is located within the TOWNSHIP; and

WHEREAS, Act 51 of the Public Acts of 1951, as amended, authorizes counties to enter into contracts to perform work on any highway, road, or street within the limits of a county or adjacent thereto, and provides for the joint participation in the cost thereof; and

WHEREAS, the Project will significantly enhance the road system for the citizens of the COUNTY and the TOWNSHIP; and

WHEREAS, the COUNTY has approved a total of \$388,888 and the TOWNSHIP share of the Project Costs represents the 20% match of the Project; and

WHEREAS, the parties hereto have reached an understanding with each other regarding the performance of the Project and desire to set forth this understanding in the form of a written Agreement.

NOW THEREFORE, in consideration of the mutual understandings of the parties and in conformity with applicable law, it is agreed:

ARTICLE 1 DEFINITIONS

Wherever used in this Agreement, the following terms shall have the meanings indicated which shall be applicable to both the singular and plural thereof:

- 1.1 **AGREEMENT** – The written contract between COUNTY and the TOWNSHIP regarding the Project.
- 1.2 **AS-BUILTS (AS-BUILT DRAWINGS)** – Reproducible Project construction drawings revised to show significant changes made during the construction process; usually based on marked-up prints, drawings and other data.
- 1.3 **BID** – The offer or proposal of the Bidder submitted on the prescribed form setting forth the prices for the Project.
- 1.4 **BIDDER** – Any person, firm or corporation submitting a Bid for the Project.
- 1.5 **BIDDING DOCUMENTS** – The advertisement and invitation to Bid, including approved plans, specifications, addendum, and other documents issued on which the Bid is based.
- 1.6 **BONDS** – Bid, Performance and Payment Bonds and other instruments of security, furnished by the Contractor.
- 1.7 **CHANGE ORDER** – The written order of the COUNTY, or its duly authorized representative, for changes in or extras to a contract.
- 1.8 **CONSTRUCTION ENGINEERING** – All services necessary to adequately assure that the Project is being constructed in substantial conformance with the as Bid plans and specifications, together with any changes, extras, amendments, addendum, and/or bulletins. Services include, but are not limited to, contract administration, construction staking, construction inspection and/or consultant services. Costs include, but are not limited to, direct labor, equipment, and materials plus current COUNTY charges for the overhead, fringes and benefits.
- 1.9 **CONSTRUCTION WORK** – All work performed to construct the Project in substantial conformance with the as Bid plans and specifications, together with any changes, extras, amendments, addendum, and/or bulletins. Work is to be performed by the responsive qualified low Bidder together with approved subcontractors, COUNTY forces, and/or the third parties that have a relevant interest in the Project. Costs include, but are not limited to, unit prices extended for actual quantities completed, lump sum work, force account work that includes, but is not limited to, direct labor, equipment, materials plus current COUNTY charges for costs directly associated with the Project construction.
- 1.10 **ENGINEER** – The Director of Engineering/County Highway Engineer for Wayne County or his duly appointed representative who is responsible for engineering supervision of preliminary engineering, construction engineering and/or quality control testing aspects of the Project.
- 1.11 **ENGINEER'S ESTIMATE** – The approximated cost of construction work based on plan quantities of Construction Work items defined in the Project plans and specifications.
- 1.12 **PRELIMINARY ENGINEERING** – All services necessary to adequately prepare plans and

specifications for the Project, together with any changes, extras, amendments, addendum, and/or bulletins. Preliminary Engineering services may include, but are not limited to, surveys, soil investigations, design, drafting, reviews, permits, and/or consultant services. Costs include, but are not limited to, direct labor, equipment, and materials plus current COUNTY charges for overhead, fringes and benefits.

1.13 PROJECT COSTS – See Article 2.

1.14 QUALITY CONTROL TESTING – All services necessary to adequately assure that the Project materials are being supplied and/or installed in substantial conformance with the as Bid plans and specifications, together with any changes, extras, amendments, addendum, and/or bulletins. Services include, but are not limited to, sampling onsite, sampling at the source, onsite testing, laboratory testing and/or consultant services. Costs include, but are not limited to, direct labor, equipment, and materials together with the current appropriate COUNTY charges for overhead, fringes and benefits.

1.15 WORKING CAPITAL ADVANCE – A non-interest bearing deposit by the TOWNSHIP with the COUNTY, which will be used by the COUNTY for Project Costs.

ARTICLE 2 PROJECT COSTS

2.1 As herein used, the term “Project Costs”, shall include, but not be limited to, the cost of the Preliminary Engineering, Construction Work, Construction Engineering, Quality Control Testing, and/or other miscellaneous work together with any costs associated with changes, Change Orders, extras, amendments, addenda, and/or bulletins.

2.2 The parties acknowledge that the construction Bids are subject to Change Orders and that the TOWNSHIP will pay accordingly.

2.3 The parties acknowledge that securing any easements and/or right-of-ways necessary for the Project will be part of another separate agreement.

ARTICLE 3 TERM OF CONTRACT

3.1 The effective date of this Agreement is upon approval of the Wayne County Commission and execution by all parties, and shall terminate on September 30, 2022 at 11:59 p.m.

ARTICLE 4 TOWNSHIP'S RESPONSIBILITIES

4.1 The TOWNSHIP shall perform all Preliminary Engineering or have preliminary Engineering performed by an engineering firm approved by the COUNTY.

4.2 The TOWNSHIP shall arrange for the contract bidding, award of the contract and administer the contract.

4.3 The TOWNSHIP shall have all Construction Engineering or have Construction Engineering performed by a civil engineering firm approved by the COUNTY.

4.4 The TOWNSHIP shall perform the Quality Control Testing of all materials to be incorporated into the Project or have Quality Control Testing performed by an engineering firm approved by the COUNTY.

4.5 The TOWNSHIP shall appoint an Engineer for the Construction Work for the Project.

4.6 The contractor hired by the TOWNSHIP must apply for and meet the requirements for a Wayne County Permit which will require the contractor to be insured and provide security in the form of a cash bond or irrevocable letter of credit.

4.7 The TOWNSHIP shall keep accurate records and accounts of the Project Costs that shall be accessible for inspection and audit by a representative of the COUNTY.

ARTICLE 5 WAYNE COUNTY'S RESPONSIBILITIES

5.1 The COUNTY shall review the TOWNSHIPS project proposals.

5.2 The COUNTY will issue the contractor a permit to perform construction work in Wayne County road Right-of-Way.

5.3 The COUNTY shall waive the permit application fee, plan review fees and inspection charges.

ARTICLE 6 COST SHARING

6.1 The parties hereto acknowledge that the COUNTY shall pay up to 80% of project costs and that COUNTY funds are capped at \$388,888, and the TOWNSHIP share of the Project Costs represents the 20% match of the Project and any balance remaining after the COUNTY's capped amount.

6.2 The TOWNSHIP shall provide at least a 20% match in township funds or in-kind services or private sources such as homeowner association.

6.3 The parties hereto acknowledge that the Bid for the construction costs may exceed the estimated project construction costs as set forth in this Agreement, and the parties hereto agree to pay their respective portions of the actual Project Costs; however, the COUNTY's contribution to the Project will not be allowed to exceed the established cap established in Article 6.1.

6.4 The parties hereto acknowledge that during construction Change Orders may be issued which will affect the final costs. The parties hereto agree to accept the judgment of the Township as final.

6.5 The parties hereto acknowledge that some additional work is desired by one, or more, of the homeowner associations that is beyond the scope of this agreement. Any such additional work will be covered by a separate agreement, or memorandum of understanding between the parties.

ARTICLE 7 PAYMENT TERMS

7.1 The COUNTY shall make payments to the TOWNSHIP upon invoice by the TOWNSHIP.

7.2 The COUNTY shall make payment of the invoice(s) within thirty (30) days of receipt of the invoice(s).

7.3 Invoices shall be paid until project completion or the capped amount is reached.

ARTICLE 8 WAIVER

8.1 The Parties agree that no provision in this Agreement constitutes or acts as a waiver of any governmental immunity the COUNTY, its agencies, officers, employees, agents or elected officials enjoy under applicable statutory or common law.

ARTICLE 9 FORCE MAJEURE

9.1 It is mutually understood and agreed that neither of the parties hereto shall be held responsible for damages occasioned by delay or failure to perform where due to fire, strike, flood, acts of God, unavailability of labor, material, legal acts of public authorities, or delays caused by public carriers or third person (including contractors or subcontractors) which cannot reasonably be foreseen or provided against.

ARTICLE 10 HOLD HARMLESS

10.1 Each party to this Agreement shall remain responsible for any claims arising out of its own acts and/or omissions during the performance of this Agreement, as provided by law.

10.2 This Agreement is not intended to increase either party's liability for, or immunity from, tort claims.

10.3 This Agreement is not intended nor shall it be interpreted as giving either party hereto a right of indemnification, either by Agreement or at law, for claims arising out of the performance of this Agreement.

ARTICLE 11 INSURANCE

11.1 The TOWNSHIP will require that all contractors undertaking work on the Project provide insurance coverage in said amounts as set forth in **Attachment A**.

11.2 All insurance and bonds shall name the COUNTY OF WAYNE and the TOWNSHIP as insured or beneficiary.

ARTICLE 12 NOTICE

12.1 Notification regarding anything in connection with this Agreement shall be sent in writing via first class mail to:

For the COUNTY:

Director of Engineering/County Highway Engineer
Wayne County Department of Public Services
400 Monroe Street, 3rd Floor
Detroit, MI 48226

For the TOWNSHIP:

Kurt L. Heise, Supervisor
Plymouth Township
9955 N. Haggerty Road
Plymouth, MI 48170

ARTICLE 13 TERMINATION

13.1 The COUNTY may terminate this Agreement without cause at any time, without incurring any liability.

13.2 The TOWNSHIP may terminate this Agreement without cause at any time, without incurring any liability not set forth in this Article 13, by giving written notice to the COUNTY of the termination. The notice must specify the effective date of termination at least 30 days prior to its occurrence, and this Agreement will terminate as if the date specified were the date originally given for the expiration of this Agreement. Termination of this Agreement by the TOWNSHIP will not relieve the TOWNSHIP of its share of the Project Costs incurred up to the date of termination of the Agreement.

13.3 Regardless of the cause for the termination of this Agreement, each party will assist the other in the orderly termination of this Agreement and will participate, in good faith, in all transfers connected with termination, whether of tangibles or intangibles, as will be necessary for the unimpeded continuation of each party's business.

ARTICLE 14 BINDING EFFECT/INTEGRATION

14.1 This Agreement, including the Exhibits hereto embodies the entire Agreement and understanding among the parties hereto and supersedes all prior agreements and understandings related to the subject matter thereof. No rights or remedies are or will be acquired by either party, orally, through implication or otherwise, unless set forth herein.

14.2 This Agreement may be executed in counterparts, each of which will be deemed an original but all of which together will constitute one agreement.

14.3 This Agreement is effective only upon approval of the Charter County of Wayne and the TOWNSHIP as evidenced by the attached Resolutions adopted by Plymouth Township Board of Trustees and the Wayne County Commission, and fully executed by all parties including the Wayne County Chief Executive Officer.

[SIGNATURES ON FOLLOWING PAGE]

SIGNATURES

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed the day and year written below.

SIGNED IN THE PRESENCE OF:

FOR COUNTY OF WAYNE

By: _____
Warren C. Evans
 Its: Chief Executive Officer
 Date: _____

FOR PLYMOUTH TOWNSHIP

By: _____
Kurt L. Heise
 Its: Supervisor
 Date: _____

FOR PLYMOUTH TOWNSHIP

By: _____
Jerry Vorva
 Its: Clerk
 Date: _____

APPROVED AS TO FORM:

By: /s/Raynard O. Jones

DEPT OF CORPORATION COUNSEL

#321993v.2 (8/1/2019)

ATTACHMENT A INSURANCE COVERAGES

TOWNSHIP, at its expense, or any contractors, subcontractors, consultants or agents retained by TOWNSHIP, at their own expense, shall procure and maintain for the duration of this Agreement, insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the services by the Contractor, its agents, representatives or employees. Contractor shall maintain at least the following minimum coverage:

Commercial General Liability (CGL)

Insurance Services Office Form CG 00 01 covering CGL on an “occurrence” basis, including products and completed operations, property damage, bodily injury and personal and advertising injury with limits no less than \$5,000,000 per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this Contract or the general aggregate limit shall be twice the required occurrence limit.

Umbrella or Excess Liability

Policy in an amount not less than \$3,000,000. Umbrella or Excess policy wording shall be at least as broad as the primary or underlying policy(ies) and shall apply both to the Contractor’s general liability and to its automobile liability insurance and shall be written on an occurrence basis. The County, officials, employees and others as may be specified in any "Special Conditions" shall be named as an additional insured under this policy.

Automobile Liability

Insurance Services Office Form Number CA 0001 covering, Code 1 (any auto), or if Contractor has no owned autos, Code 8 (hired) and 9 (non-owned), with limits no less than \$1,000,000 per accident for bodily injury and property damage.

Workers’ Compensation

Insurance as required by the State of Michigan, with Statutory Limits, and Employer’s Liability Insurance with limits of no less than \$1,000,000 per accident for bodily injury or disease.

Professional Liability (if Design/Build)

Insurance appropriate to the Contractor's profession, with limits no less than \$3,000,000 per occurrence or claim, \$3,000,000 aggregate.

Builder's Risk (Course of Construction)

Insurance utilizing "All Risk" (Special Perils) coverage form, with limits equal to the completed value of the project and no coinsurance penalty provisions.

Contractors' Pollution Legal Liability and/or Asbestos Legal Liability and/or Errors and Omissions (if project involves environmental hazards)

Insurance with limits no less than \$1,000,000 per occurrence or claim, and \$2,000,000 policy aggregate.

➤ If the Contractor maintains higher limits than the minimum insurance coverage required as stated above in this Attachment, the Contractor shall maintain the coverage for the higher insurance limits for the duration of this Agreement.

Additional Insured Status

The County, its officers, officials, employees, volunteers, and others as may be specified in any "Special Conditions" shall be additional insureds on the CGL policy with respect to liability arising out of work or operations performed by or on behalf of the Contractor including materials, parts, or equipment furnished in connection with such work or operations. General liability coverage can be provided in the form of an endorsement to the Contractor's insurance (at least as broad as ISO Form CG 20 10 11 85 or both CG 20 10 and CG 20 37 forms if later revisions used).

Primary Coverage

For any claims related to this Agreement, the Contractor's insurance coverage shall be primary insurance as respects the County, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the County, its officers, officials, employees, or volunteers shall be excess of the Contractor's insurance and shall not contribute with it.

Notice of Cancellation

Each insurance policy shall state that coverage shall not be canceled, except with notice to the County.

Waiver of Subrogation

Contractor grants to the County a waiver of any right to subrogation which any insurer of the Contractor may acquire against the County by virtue of the payment of any loss under such insurance. Contractor agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the County has received a waiver of subrogation endorsement from the insurer.

Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions must be declared to and approved by the County. The County may require the Contractor to provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention.

➤ All insurance must be effected under valid and enforceable policies, issued by recognized, responsible insurers qualified to conduct business in Michigan which are well-rated by national rating organizations. All companies providing the coverage required shall be licensed or approved by the Insurance Bureau of the State of Michigan and shall have a policyholder's service rating no lower than A:VII as listed in A.M. Best's Key Rating guide, current edition or interim report.

Claims-made Policies

If any of the required policies provide coverage on a claims-made basis:

1. The Retroactive Date must be shown and must be before the date of this Agreement or the date the Contractor starts to perform the services.
2. Insurance must be maintained and evidence of insurance must be provided for at least five (5) years after completion of this Agreement.
3. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a Retroactive Date prior to this Agreement's effective date, the Contractor must purchase "extended reporting" coverage for a minimum of five (5) years after completion of Agreement work.

Verification of Coverage

Contractor shall furnish the County with original certificates and amendatory endorsements or copies of the applicable policy language effecting coverage required by this Article. The County shall receive and approve all certificates and endorsements before the Contractor begins providing services. Failure to obtain

the required documents prior to commencement of services shall not waive the Contractor's obligation to provide them. The County reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by the Article, at any time.

Subcontractors

Contractor shall require and verify that all subcontractors maintain insurance satisfying all the stated requirements, and Contractor shall ensure that the County is an additional insured on insurance required from subcontractors.

Special Risks or Circumstances

The County reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.

➤ The Contractor must submit certificates evidencing the insurance to the Risk Management Division at the time the Contractor executes an agreement with the TOWNSHIP, and at least fifteen (15) days prior to the expiration dates of expiring policies.

Surety Bonds

The Contractor shall provide the following Surety Bonds: 1) Bid bond; 2) Performance bond; 3) Payment bond; 4) Maintenance bond. The payment bond and the performance bond shall be in a sum equal to the contract price. If the performance bond provides for a one year warranty a separate Maintenance Bond is not necessary. If the warranty period specified in the contract is for longer than one year a Maintenance Bond equal to 10% of the contract price is required. Bonds shall be duly executed by a responsible corporate surety, authorized to issue such bonds in the State of Michigan and secured through an authorized agent with an office in Michigan.

ATTACHMENT B



ORCHARD, HILTZ & McCLIMENT, INC.
34000 Plymouth Road, Livonia, Michigan, 48150

CLIENT: Charter Township of Plymouth
PROJECT: Litchfield Drive Reconstruction
WORK: Concrete pavement with integral curb, full cross section reconstruction.
7 inch concrete pavement over 6 inch aggregate base
30 Benefits

ENGINEER'S OPINION OF PROBABLE
CONSTRUCTION COST

Telephone: (734) 522-6711 FAX: (734) 522-6427

DATE: Mar 27, 2019
PROJECT NO. 0132-18-0020
ESTIMATOR: KMS
CHECKED BY: GAT

BASIS FOR ESTIMATE: ☐ CONCEPTUAL ☒ PRELIMINARY ☐ FINAL

Item	Description	Unit	Total Quantity	Unit Price	Total Cost
1	Mobilization, 10% max.	LS	1	\$53,600.00	\$53,600.00
2	Audio Video Route Survey	LS	1	\$2,000.00	\$2,000.00
3	Traffic Maintenance and Control	LS	1	\$15,000.00	\$15,000.00
4	Erosion Control, Inlet Filter	EA	9	\$225.00	\$2,025.00
5	Tree Removal & Replacement	EA	2	\$1,500.00	\$3,000.00
6	Sidewalk, Rem	SYD	35	\$14.00	\$490.00
7	Pavt, Rem	SYD	5964	\$10.00	\$59,640.00
8	Pavt, Rem, Driveway	SYD	230	\$15.00	\$3,450.00
9	Station Grading	STA	20	\$2,000.00	\$40,000.00
10	Subgrade Undercutting	CYD	500	\$35.00	\$17,500.00
11	Dr Structure, Tap, 6 inch	EA	9	\$250.00	\$2,250.00
12	Dr Structure, Tap, 12 inch	EA	2	\$500.00	\$1,000.00
13	Underdain, Subgrade, 6 inch	FT	3600	\$16.00	\$57,600.00
14	Dr Structure Rebuild	EA	9	\$1,000.00	\$9,000.00
15	Dr Structure, 24 inch dia	EA	2	\$2,000.00	\$4,000.00
16	Dr Structure, 48 inch dia	EA	3	\$3,000.00	\$9,000.00
17	Storm Sewer, RCP, 12 inch	FT	325	\$70.00	\$22,750.00
18	Aggregate Base, 21AA	TON	2050	\$27.00	\$55,350.00
19	Conc Pavt, Nonreinf, 7 inch	SYD	5964	\$54.00	\$322,056.00
20	Drive Approach, Nonreinf Conc, 6 inch	SYD	230	\$60.00	\$13,800.00
21	Sidewalk Ramp, ADA Conc, 6 inch	SFT	100	\$14.00	\$1,400.00
22	Sidewalk, Conc, 4 inch	SFT	200	\$7.00	\$1,400.00
23	Remove and Reset Irrigation Head	EA	50	\$100.00	\$5,000.00
24	Post, Mailbox, Remove and Reset	EA	30	\$125.00	\$3,750.00
25	Sign, Remove and Reset	EA	5	\$200.00	\$1,000.00
26	Restoration	LS	1	\$12,500.00	\$12,500.00
27	Project Cleanup	LS	1	\$5,000.00	\$5,000.00

Estimated Construction Cost	\$723,561.00
Contingency, 5%	\$36,180.00
Estimated Total Construction Cost	\$759,741.00
Design, Engineering, and Construction Administration Costs, 25%	\$189,940.00
Total Project Cost Opinion	\$949,681.00
Wayne County Local Road Funding	\$388,888.00
Total Project Cost w/ WC Funding	\$560,793.00
Total Benefits	30
Estimated Assessment/Benefit (assuming no WC funding)	\$31,660.00
Estimated Assessment/Benefit (w/ full Wayne County local road funding)	\$18,700.00

#

Resolution

Motion by _____, Support by _____, that

Whereas, Plymouth Township believes quality roads are a vital part of any community, and

Whereas, certain road improvements are necessary to increase traffic safety and to encourage economic development, and

Whereas, the County of Wayne has committed to assist Plymouth Township in the improvements to local roads within the township limits, and

Whereas, Wayne County will provide payment to the Plymouth Township up to 80% or the capped amount of \$388,888 as the COUNTY's participation of the total Project Costs; and; and

Whereas, the Plymouth Township will pay the balance of the total Project Costs; and

Now, therefore be it resolved, that the Township of Plymouth Board of Trustees does hereby approve the proposed Agreement between Plymouth Township and County of Wayne for the improvements of roads in the Township, and

Be it further resolved, that the Supervisor and Clerk are authorized to execute the Agreement on behalf of Plymouth Township.

YEAS:

NAYS:

ABSENT:

ABSTAIN:

I hereby certify that the foregoing is a true and correct copy of a resolution adopted by the Board of Trustees of the Township of Plymouth, County of Wayne, Michigan, at a meeting held on _____.

RESOLUTION

No.

By Commissioner[s] _____

WHEREAS, the County of Wayne acting through its County Commission at the request of the County Executive Officer has adopted a budget provides for the improvement of certain roads located within the County of Wayne and the financing thereof.

NOW THEREFORE, be it:

RESOLVED, by the Wayne County Commission this _____ day of _____ 2019 that PLYMOUTH Township to provide for cost sharing in the improvements of roads in Plymouth, as recommended by the Chief Executive Officer, the costs for which are capped at \$388,888, and which shall be expended from Account _____; and be it further

RESOLVED, that the Chief Executive Officer be, and is hereby duly authorized to execute the aforementioned contract on behalf of the County of Wayne and that the Purchasing Division is authorized to open a Blanket Order with the PLYMOUTH Township for this Agreement.

CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019

NEW BUSINESS

ITEM F.3
FEE SCHEDULE CHANGE
RESOLUTION # 2019-08-27-76



CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

MEETING DATE: August 27, 2019

ITEM: Approval of fee from on-line processing and recording of documents, Resolution #2019-08-27-76

PRESENTERS: Clerk Vorva

BACKGROUND:

In the Clerk's Office, we serve as the official record keeper of all Township documents. One of the aspects of that responsibility is continual involvement in the recording of documents with Wayne County.

In the past we have primarily utilized our Township Attorney's office or the office of Spalding DeDecker to get these documents recorded with Wayne County. At best, this is not an ideal solution when recording and retention of these documents is the end goal.

For those reasons, we have joined with the Building Department and the processes they have already established (PZE) which allows us to administer the recording of these documents on-line. All of this allows us to maintain originals and recording documents internally and we can pass on the actual recording fees to the end user (mostly contractors and developers).

In keeping with current practices I am proposing a \$35.00 administrative fee to cover the employee time and processing of these documents. In addition, I am requesting Board approval to add this administrative fee to our Comprehensive Fee Schedule.

PROPOSED MOTION: I move to adopt **Resolution #2019-08-27-76** authorizing the addition of a \$35.00 administrative fee for document recording and to add this fee to the comprehensive fee schedule.

Moved by: _____ Seconded by: _____

ROLL CALL:

___Dempsey, ___Doroshewitz, ___Heise, ___Heitman, ___Vorva, ___Clinton, ___Curmi

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

**A RESOLUTION AUTHORIZING THE ADDITION OF AN ADMINISTRATIVE FEE
FOR DOCUMENT RECORDING**

RESOLUTION #2019-08-27-76

WHEREAS, It is the responsibility of the Township Clerk to ensure proper recording of all documents through Wayne County, as required, and,

WHEREAS, It is the responsibility of the Township Clerk to acquire and retain all original documents as required by law, and,

WHEREAS, the establishment of recording documents on-line with Wayne County has allowed the Township Clerk to meet the statutory responsibilities and to ensure retention of recorded documents, and,

WHEREAS, the cost for recording of these documents is passed on to the end user, and,

WHEREAS, it is financially prudent to establish an administrative fee in the amount of \$35.00 for the processing of these documents, and,

NOW, THEREFORE, BE IT RESOLVED that the Charter Township of Plymouth Board of Trustees does hereby approve **Resolution #2019-08-27-76** authorizing the addition of a \$35.00 administrative fee for the legal processing and recording of original documents as prescribed by law, and to add this fee to the comprehensive fee schedule of the Charter Township of Plymouth.

Moved by: _____ Seconded by: _____

ROLL CALL:

___Dempsey, ___Doroshewitz, ___Heise, ___Heitman, ___Vorva, ___Clinton, ___Curmi

CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019

NEW BUSINESS

ITEM F.4
EMPLOYEE BENEFITS THROUGH MERS



CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

MEETING DATE: August 27, 2019

ITEM: Presentation from Corporate Benefit Solutions regarding changeover and consolidation of various benefit plans to the Michigan Employee Retirement System (MERS)

PRESENTER: Supervisor Heise

BACKGROUND:

The Township Board is the fiduciary to our employees' Defined Contribution (401(a)), Deferred Compensation (457), and Healthcare Savings Plans. In order to consolidate these plans, and save substantial money for our employees, Corporate Benefit Solutions, Treasurer Clinton, and I have been working for nearly two years on a strategy to fully switch over management of these plans to the Michigan Employee Retirement System (MERS) which currently administers our Defined Benefit Plan and some of our unions' existing Defined Contribution Plans. We have held several meetings with our union officials and non-union employees to explain this proposed switchover with representatives of both MERS and the incumbent 401(a) provider.

Mr. Steve Mattar from Corporate Benefit Solutions will be at our August 27 meeting to outline this course of action and answer any questions you may have. I have attached the presentation documents as provided by MERS to our employees.

It would be my intent to have three Board Resolutions transferring these plans to MERS at our September 10 Board Meeting.

PROPOSED MOTION: None; discussion only

Charter Township of Plymouth

Retirement Plan Consolidation Proposal Summary

Prepared by:

Steve Mattar, CLU, ChFC, AIF



CORPORATE BENEFIT SOLUTIONS

"BETTER SOLUTIONS FOR BETTER BENEFITS"

Agenda

- ▶ Background of due diligence and vendor recommendation
- ▶ Information about MERS
- ▶ Fiduciary responsibility
- ▶ Benefits of consolidation
- ▶ Benefits to participants
- ▶ Investment menus
- ▶ Fund expenses
- ▶ Investment performance
- ▶ Summary
- ▶ Questions

Background of due diligence and vendor recommendation

- ▶ Inquiries had been made by various groups in the Township with regards to the fees, service and ease of use of the current retirement plans (401(a), 457, and Retiree Health Savings Plan (RHSP)).
- ▶ MERS was presented to the Township as an alternate, lower cost option.
- ▶ Incumbent broker (Burnham & Flower) was asked to prepare and present a reduced fee solution using both the current custodian as well as alternate plan providers. This included both the 401(a) and the 457 plans.
- ▶ Analysis was provided by Corporate Benefit Solutions (CBS) as a non-affiliated third party.
- ▶ All options by both vendors were presented to the Township employees.
- ▶ Recommendation from CBS is to move all retirement plans to MERS.

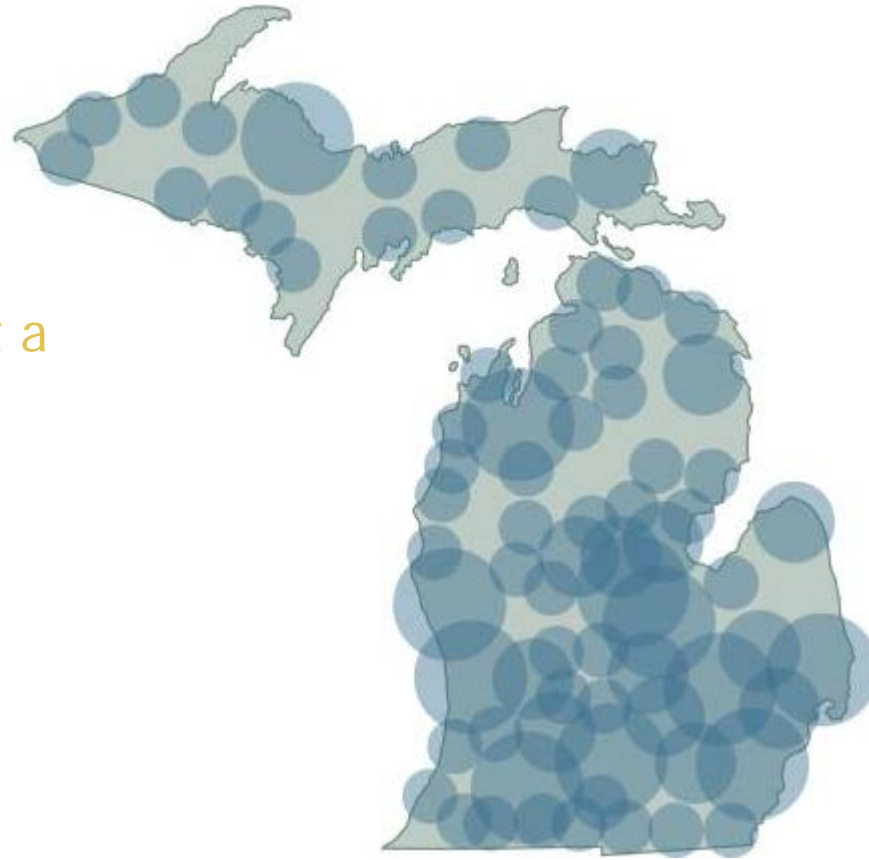
About MERS

- ▶ A Michigan company, headquartered in Lansing
- ▶ Not-for-profit company
- ▶ MERS:
 - Provides retirement plans and administration for approximately 950 municipalities
 - Manages over \$11 billion in assets
 - Serves over 100,000 participants

What makes MERS unique?

► Created to only serve Michigan Municipal Employees

- You're a member of a retirement system, not just a customer
- Greater economies of scale adds value
- Members can coordinate service toward vesting and eligibility at other MERS municipalities which helps recruit and retain employees



Fiduciary Responsibility

- ▶ Other providers charge for fiduciary “support”
 - Township is still considered co-fiduciary
- ▶ MERS is the sole fiduciary for all plans which includes monitoring and oversight for:
 - Plan document
 - Investment menu design and structure
 - Investment funds including manager/fund replacement
 - Ensuring fair fund fees and monitoring expenses
- ▶ MERS makes investment related decisions not the Township Board
- ▶ No personal responsibility or liability for Township Board or administrative staff (now or in the future)

Benefits of Provider Consolidation

- ▶ Better pricing
- ▶ Streamlined administration saves time:
 - Reporting to one vendor versus several
 - No need for employer sign off on distributions/withdrawals
- ▶ Can more efficiently provide education to employees (one meeting for all products)
- ▶ MERS offers one consolidated quarterly statement vs. 3 statements from 3 companies.
- ▶ Ease of retirement planning: one log in, one investment menu, one provider for retirement income requests

Benefits to Participants

- ▶ Lower plan costs = more money in your account at retirement
 - MERS fees were lower across all 3 plans
 - ICMA RHS has an annual participant fee of \$25. MERS has none.
- ▶ Added protection: ICMA RHS does not allow for a primary or contingent beneficiary beyond the life of spouse or legal dependent eligibility. MERS HCSP does.
- ▶ Privacy: Can withdraw funds when you want without involving the employer.
- ▶ Can get plan education on all plans at once versus having 3 vendors currently.
- ▶ Coordinated retirement planning tools: Snapshot, Full Picture, Risk Analyzer

Importance of Investment Menu Structure

- ▶ Too many fund options can result in:
 - Additional fiduciary burden/plan oversight
 - Higher fees and lower account balances
 - “Analysis paralysis”
 - Psychological studies show participants actually want less choice, not more
 - Lower participant contribution rates
 - Fewer participants contributing to the plan
 - Reduced satisfaction with retirement plan
 - Lower investment results

Current Investment Menus

- ▶ Excessive fund choice – 236 total options in all plans
 - 401(a) John Hancock Defined Contribution Plan has 157 Funds
 - Only 74, (47%) of funds have a balance
 - 49 have less than 1% of plan assets and 2 have greater than 10% of plan assets
 - 457(b) Nationwide Deferred Compensation Plan has 48 funds
 - 28 funds are proprietary
 - 45 funds have a balance
 - 18 have less than 1% of plan assets and 4 have greater than 5% of plan assets
 - 401(h) ICMA Retiree Health Savings Plan has 31 funds
 - All funds are proprietary
 - 11 funds have a balance
 - 94% of assets are in Target Date funds
 - ICMA avg. expense ratio is 1.13% vs. MERS avg. of 0.41%

MERS Investment Menu

- ▶ One streamlined investment menu across all plans that is easy to use and understand
 - The average 401(k) plan has 20-30 fund options
- ▶ MERS offers 29 total funds consisting of:
 1. “Do it for me” options are the default fund and consist of fully diversified Target Date Funds
 2. “Help me do it” options are broken into two parts:
 - ▶ Asset allocation portfolios consisting of stocks and bonds
 - ▶ Individual funds to customize or supplement your own portfolio
 3. “I’ll do it myself” offers a Self-Directed Brokerage Window for those looking for additional options:
 - ▶ Individual stocks, bonds, Mutual Funds, ETF’s, etc.
 - ▶ Cost = \$50/year/account + 0.28% + trade expense
 - Still lower cost than current plan fees

Investment Expenses

- ▶ Current weighted average fees based on comparison:
 - 401(a) DC plan* MERS 0.49% vs. 1.27% John Hancock 401(a)
 - Based on \$8M plan balance, cost is \$62,400 more/year*
 - 457 (b) Deferred Comp plan* MERS 0.44% vs. 1.67% Nationwide
 - Based on \$6.3M plan balance, cost is \$77,490 more/year*
 - 401(h) RHS plan* MERS 0.43% vs. 1.13% ICMA
 - Based on \$183K plan balance, cost is \$1,281 more/year*
 - MERS saves participants \$141,171 in plan fees annually*

*Based on fee and performance comparison used plan assets and fees from 6/30/18

Investment Expenses

- ▶ MERS has proactively reduced plan fees consistently over the years
- ▶ Current providers reduced fees in an attempt to retain business
 - John Hancock proposed reduced fees 0.53%-0.84%
 - Empower (new vendor) proposed fees 0.26%-0.69%
 - Like to like investment lineups would still be higher than MERS

Investment Performance (inclusive of all fees)

- ▶ MERS' investment performance was better overall
 - John Hancock returns underperformed over all periods
 - 1 year average: 0.02% less
 - 3 year average: 1.55% less
 - 5 year average: 0.62% less
 - Nationwide outperformed on the 1 year, but MERS was better over 3 and 5 year periods
 - 1 year average: 1.11% better
 - 3 year average: 0.79% less
 - 5 year average: 0.62% less
 - ICMA returns were lower for 1 and 3 year periods and slightly higher for the 5 year average
 - 1 year average: 0.43% less
 - 3 year average: 0.75% less
 - 5 year average: 0.07% better

Plan Difference: In-service Distributions

- ▶ The current John Hancock 401(a) DC plan allows in-service distributions for employees who have met the retirement eligibility age of 59 ½.
- ▶ The MERS allows in-service distributions in the following scenarios:
 - Withdrawal of eligible rollover funds
 - Voluntary after-tax contributions
 - Required Minimum Distributions (RMD's) at age 70 ½
 - Purchases of service credit (Defined Benefit plan)
 - Pay out excess contributions made by your employer
- ▶ There are currently 2 employees who had taken in-service distributions this year. (they would be grandfathered) No new in-service distributions would be allowed after 01-01-20.

Summary

- ▶ In reviewing the current plan providers, MERS became a clear choice for a number of reasons:
 - MERS takes on the role of plan fiduciary
 - Ease of administration with one plan provider
 - Ease of retirement planning: one log on, consolidated statements, planning tools, one investment menu, and education from one provider
 - Lower investment and plan fees
 - Better historical rates of return

Questions?

Thank you!

Steve Mattar, CLU, ChFC, AIF

President

(248) 290-0250

steve@corporatebenefitsolutions.net



CORPORATE BENEFIT SOLUTIONS

"BETTER SOLUTIONS FOR BETTER BENEFITS"



Plymouth Township

MERS Defined Contribution Plan
MERS 457 Supplemental Retirement Program
MERS Health Care Savings Program

Presented: June 2018

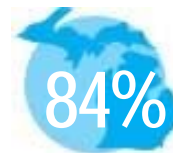
Data: March 31, 2018



About MERS of Michigan

MERS is an independent, professional retirement services company that was **created to administer** the retirement plans for Michigan municipalities on a **not-for-profit basis**

BY THE NUMBERS



of Michigan's pension plans participate with MERS



participants



in combined total assets

An Independent Elected Board

- MERS is governed by an elected board that operates without compensation
- Our board is committed to accountability and transparency; holding the line on costs; and watching out for the best interest of our members
- MERS provides customers with peace of mind because the ***MERS Retirement Board takes on the sole fiduciary responsibility of their plan***



MERS Retirement Board

is responsible for administration of the system with fiduciary responsibility for the investment of assets and oversight.

Municipal Retirement Plan Experts

We provide one-stop access to shared professional retirement services:

- Plan governance
- Administration
- Portfolio management
- Investment options
- Participant education
- Legal counsel
- Plan compliance, including tax qualification



Fiduciary Responsibility

A Hot Topic Facing Municipalities

- With recent high-profile class action suits alleging violation of fiduciary duty, employers need to manage fiduciary risks
- When fiduciary breaches occur there can be:
 - Personal liability
 - Fines and penalties
 - Legal action
 - Plan disqualification
 - Higher operating expenses



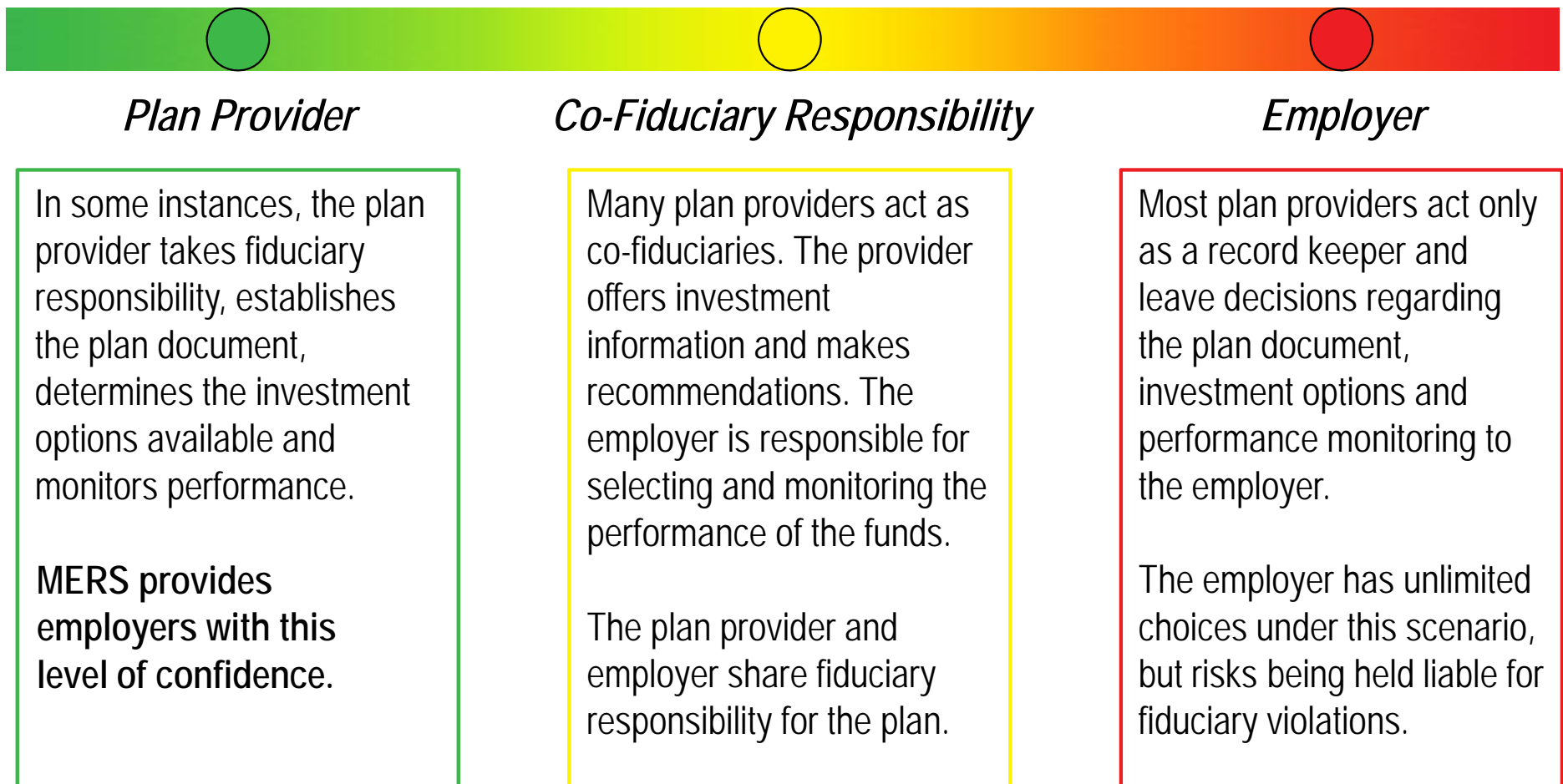
Fiduciary Oversight

- A fiduciary is anyone who has discretionary authority over:
 - Plan assets
 - The administration of the plan
 - The management of the plan
- Fiduciaries are subject to standards of conduct and must act on behalf of participants
- Responsibilities:
 - Adherence to Plan Document
 - Investment oversight
 - Ensure reasonable expenses

MERS provides employers with peace of mind because the ***MERS Retirement Board takes on the sole fiduciary responsibility of their plan.***

Degrees of Fiduciary Responsibility

When it comes to the fiduciary responsibility for your retirement plan, not all plan providers assume the role of sole fiduciary.





MERS Investments

Is a Bigger Investment Menu Better?

Psychologists have concluded that an overload of options can paralyze people or push them into decisions that are against their own best interest.



When Less is Actually More

A study on shopping behavior experimented with jam displays. One table held 24 varieties of gourmet jam; the other held only 6 varieties. The large display attracted more interest, but people were 1/10th as likely to buy from the large display as from the small display.

The same principle of “less is more” was found to apply to participation rates in retirement programs. A large number of fund choices actually *discourages participation* amongst even well informed participants.^{1, 2}

¹ Mottola, Gary and Utkus, Stephen. “Can There Be Too Much Choice In a Retirement Savings Plan?” The Vanguard Center for Retirement Research, June 2003

² Schwartz, Barry. “More Isn’t Always Better.” Harvard Business Review, 01 June 2006. Web. 24 Feb. 2016

Simplified Investment Options

- Our streamlined investment menu is a sophisticated set of selections by our experienced investment professionals
- MERS performs the necessary research, due diligence and monitoring to ensure high-quality options
- Our pre-built portfolio funds use outside institutional investment managers that are selected and monitored by the MERS Office of Investments and Retirement Board

Investment Categories



“Do it for me”

Fully diversified target date funds that automatically adjust over time



“Help me do it”

Prebuilt portfolios that are monitored and rebalanced quarterly



“I’ll do it myself”

Self-Directed Brokerage Account to access funds outside of MERS

** Self-directed brokerage account not available under Health Care Savings Program*

MERS Investment Menu Resources

Using research and best practices, MERS developed our investment information to assist investors of every experience level:

[illegible]

Performance and Fee Summary with Categories



Overview Booklet with Glossary of Terms

[illegible]

Detailed Fund Sheets

Straightforward Costs

Our members benefit from the economies of scale and low administrative costs that come with being part of a large pool of assets.

As of 12/31/2017, our asset-weighted average fund cost is just 0.43%.

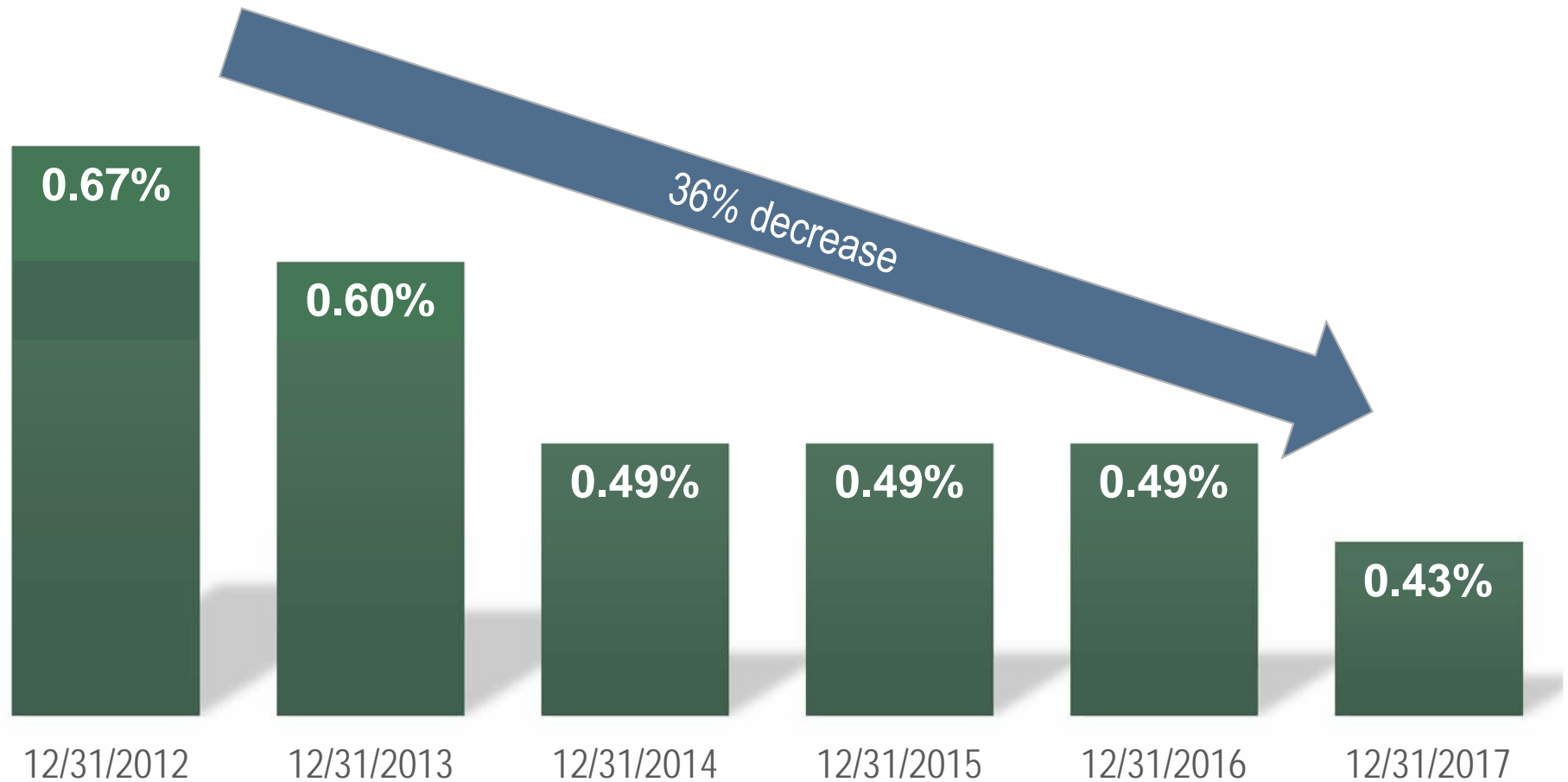
- 1 MERS clearly discloses the fees charged for custodial, recordkeeping, operating and investment management costs, following the Department of Labor guidelines.
- 2 MERS charges the same administrative fees and recordkeeping costs on each of our professionally managed portfolios.
- 3 MERS reimburses all revenue sharing received from outside mutual funds directly to participants.

Real Estate Stock (as of 3/31/2018)

1	2	MERS Operating Costs: Costs to run the day-to-day operations of the plan, which include legal, accounting, auditing, compliance, printing and overhead costs.	0.15%
		Custody and Recordkeeping Costs: Costs related to bookkeeping, settling trade activity, and holding assets in custody at a bank.	0.15%
	3	Investment Management Expense: All costs incurred in the overall management of the fund. The Investment Management Expense varies based on the level of assets. As assets increase, the Investment Management Expense is expected to decline.	0.96%
		Fund Company Rebate: The Fund Company Rebate is a reimbursement from the fund company for services provided by our recordkeeper.	-0.45%
		Total Annual Operating Expense: The Total Annual Operating Expense reduces the rate of return of the investment option. A Total Annual Operating Expense of 0.39% means that for every \$1,000 invested in the fund, a participant is charged \$8.10 in fees a year.	0.81%

A History of Cost Reduction

Asset-Weighted Average Fund Expense



The MERS asset-weighted average fund cost is determined by the percentage of assets participants invest in each fund offered on the MERS Defined Contribution Plan and MERS 457 Program Investment Menu.

DC Plan Provider Comparison *John Hancock*

DC Plan Asset-Weighted Averages (Appendix III)	John Hancock	MERS	Difference
Expense			
Asset-Weighted Average Expense	1.27%	0.49%	-0.78%
Total Impact (Performance, Less Fund Fees)			
1-Year Asset-Weighted Average Performance	10.89%	10.91%	0.02%
3-Year Asset-Weighted Average Performance	6.50%	8.05%	1.55%
5-Year Asset-Weighted Average Performance	8.70%	9.32%	0.62%

DC Plan Asset-Weighted Average is calculated by multiplying expense or performance by the percentage of assets held in each fund. Additional notes:

- 1) Plymouth Township provided MERS with its John Hancock "Employer Financial statement for the period 1/1/2018 to 3/31/2018" for the amount invested in each fund, and the "Contract Investment Options" report, as of 3/31/2018, for the performance and fee data.
- 2) The funds are mapped to the closest "like-style" asset class available on the MERS investment menu, as shown in the corresponding appendix. Note that assets invested in the "10 Year Comp" were not included in the comparison because no performance or fee information was provided to MERS.
- 3) 1, 3, and 5-Year Impact (Performance, Less Fund Fees) are used because several funds do not have longer performance history.
- 4) The fees reflected for John Hancock include each fund's "Expense Ratio," as shown in Plymouth Township's "Contract Investment Options" report, as of 3/31/2018. In addition to this fee, the "John Hancock Services" cost and "Third Party Services" cost for each fund are included, as disclosed in the "Charter Township of Plymouth Plan Review" report, prepared 6/18/2018, for period ending 3/31/2018. These fees are shown in Appendix I. The fees reflected for MERS include all operating, custody, recordkeeping, and investment management expense charged by MERS on all of its funds, as shown in Appendix II.
- 5) The asset-weighted averages shown above are not intended to show actual expense or performance experienced by the plan during the periods shown because the calculation does not account for plan activity (i.e. contributions, distributions, participant transfers between investment options) during the periods. The asset-weighted averages reflect a hypothetical illustration based on assets held in each investment option as reported at a specific point in time.

457 Program Provider Comparison *Nationwide*

457 Program Asset-Weighted Plan Averages (Appendix V)	Nationwide	MERS	Difference
<i>Expense</i>			
Asset-Weighted Average Expense	1.67%	0.44%	-1.23%
<i>Total Impact (Performance, Less Fund Fees)</i>			
1-Year Asset-Weighted Average Performance	13.59%	12.48%	-1.11%
3-Year Asset-Weighted Average Performance	7.95%	8.74%	0.79%
5-Year Asset-Weighted Average Performance	9.83%	10.45%	0.62%

457 Program Asset-Weighted Average is calculated by multiplying expense or performance by the percentage of assets held in each fund. Additional notes:

- 1) Plymouth Township provided MERS with its Nationwide "Investment Option Summary – 1/1/2018 to 3/31/2018" statement for the balance in each fund and fees, and the "Fund Performance" report as of 3/31/2018, for the performance.
- 2) The funds are mapped to the closest "like-style" asset class fund available on the MERS investment menu, as shown in the corresponding appendix. Notes: Assets shown to be held in the "fixed assets" were not included in the comparison because no details about this investment were included in the information provided. Also, assets held in the "Nationwide Fixed Account" were not included in the comparison because MERS does not have a fixed account on its investment menu.
- 3) 1, 3, and 5-Year Impact (Performance, Less Fund Fees) are used because several funds do not have longer performance history.
- 4) The fees reflected for Nationwide include each fund's "Gross Expense Ratio" and "Variable Account Expense Fees," as shown in Plymouth Township's "Investment Performance Information – 1/1/2018 to 3/31/2018" report. These fees are shown in Appendix IV. The fees reflected for MERS include all operating, custody, recordkeeping, and investment management expense charged by MERS on all of its funds, as shown in Appendix II.
- 5) The asset-weighted averages shown above are not intended to show actual expense or performance experienced by the plan during the periods shown because the calculation does not account for plan activity (i.e. contributions, distributions, participant transfers between investment options) during the periods. The asset-weighted averages reflect a hypothetical illustration based on assets held in each investment option as reported at a specific point in time.

Why Fund Costs Matter *Hypothetical Example*

Meet John

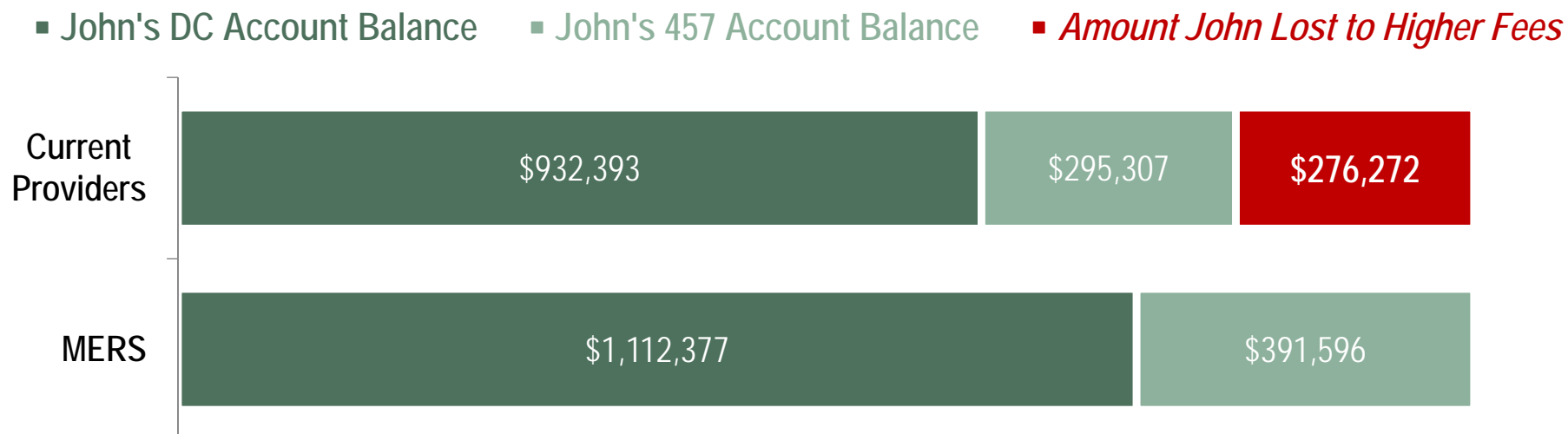
- John is 25 years old, currently makes \$40,000/year, and anticipates a 2% annual salary increase
- John's employer makes bi-weekly contributions of 15% of his salary into his DC Plan account, and he puts 5% into his 457 Program account
- His DC Plan account has a current balance of \$10,000, and his 457 account currently has \$5,000
- He anticipates a 7% investment return *before factoring in the investment expenses*
- John plans to retire at age 62
 - He plans to receive his balance through equal monthly payments until age 90 (28 years of payments)
 - He anticipates a lower investment return of 5% during his retirement, before factoring in the investment expenses



Impact of Fees on John's Account Growth

Hypothetical Account Growth Illustration (Appendix VI)

In this comparison, MERS' low fund expenses would provide John with
23% more at retirement!



Asset-Weighted Average Expense Ratios:

John Hancock DC Plan – 1.27%; Nationwide 457 Program – 1.67%;

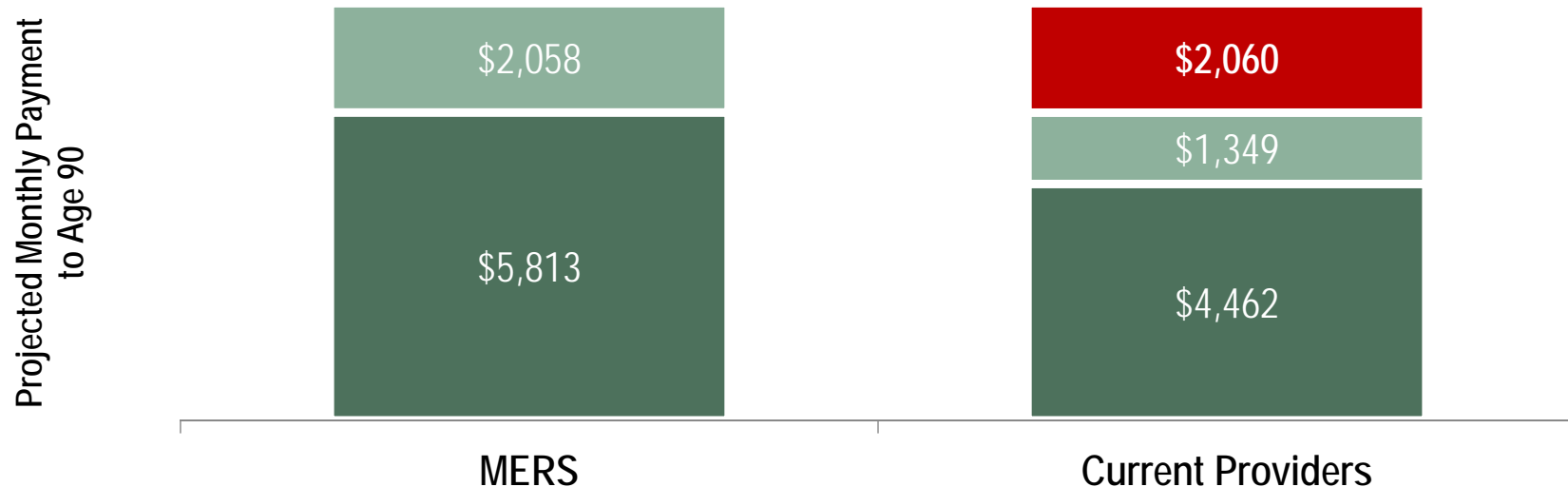
MERS DC Plan – 0.49%; and MERS 457 Program – 0.44%.

Impact of Fees on John's Retirement Income

Hypothetical Account Distribution Illustration (Appendix VII)

MERS' low fund expenses would provide John with
35% more in monthly income during retirement!

- John's Monthly DC Income
- John's Monthly 457 Income
- *Income John Lost to Higher Fees*



Asset-Weighted Average Expense Ratios:

John Hancock DC Plan – 1.27%; Nationwide 457 Program – 1.67%;

MERS DC Plan – 0.49%; and MERS 457 Program – 0.44%.



MERS Health Care Savings Program

Rising Cost of Retiree Health Care

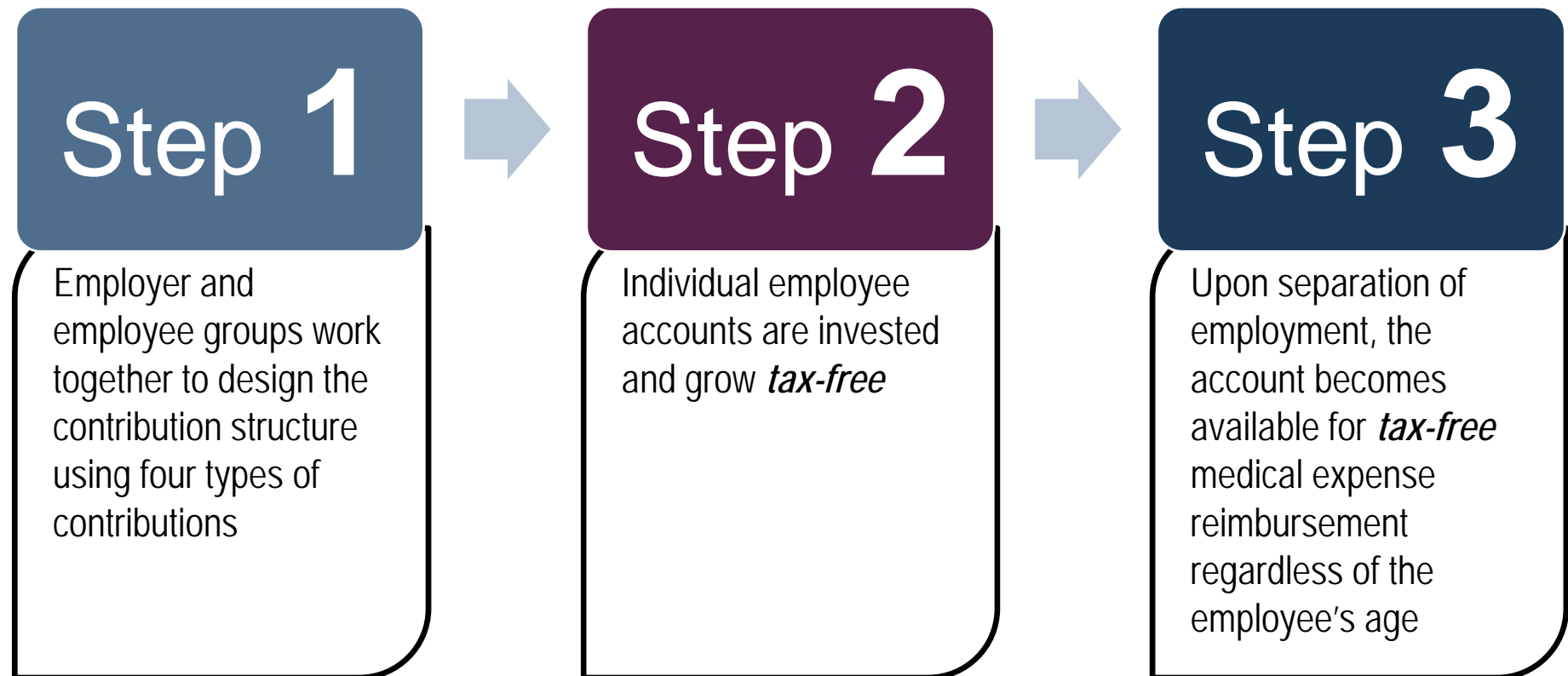
- Medicare was never designed to cover health care expenses in full
- On average, a 65-year old couple would need to save **\$265,000** to have a 90% chance of having enough money to pay for retiree health care expenses¹
 - Those requiring expensive prescription drugs may need as much as **\$349,000** to cover their health care expenses
- The cost of health care is a primary reason people decide to delay retirement
- Fewer employers are offering retiree health benefits

¹*Savings Medicare Beneficiaries Need for Health Expenses: Some Couples Could Need as Much as \$350,000, By Paul Fronstin, Ph.D., and Jack VanDerhei, Ph.D., Employee Benefit Research Institute.*

MERS Health Care Savings Program

- The MERS Health Care Savings Program (HCSP) helps participants prepare for the costs of health care after they leave their employer
- Employees are provided with an individual, tax-free medical savings account to use for qualified post-employment medical expenses
 - Employees can invest **tax-free**
 - Withdrawals for eligible medical expenses are **tax-free**
 - Employers save on FICA taxes (7.65%)
- Employers can offer the MERS HCSP without risk of accruing future unfunded OPEB liability

How the Program Works



Contribution Options

Any combination of these contribution options may be used

Basic Employer Contributions

- May be a percentage or flat-dollar amount
- A vesting cycle may be assigned

Tax-Free Mandatory Salary Reduction

- Either a percentage or a flat dollar reduction of the employee's salary
- Submitted through payroll deduction

Tax-Free Leave Conversion

- Convert all or a portion of leave into the program either annually or at termination

Post-Tax Voluntary Contributions

- May voluntarily contribute on a post-tax basis
- May start and stop contributions at any time
- Medical expense reimbursement still tax-free

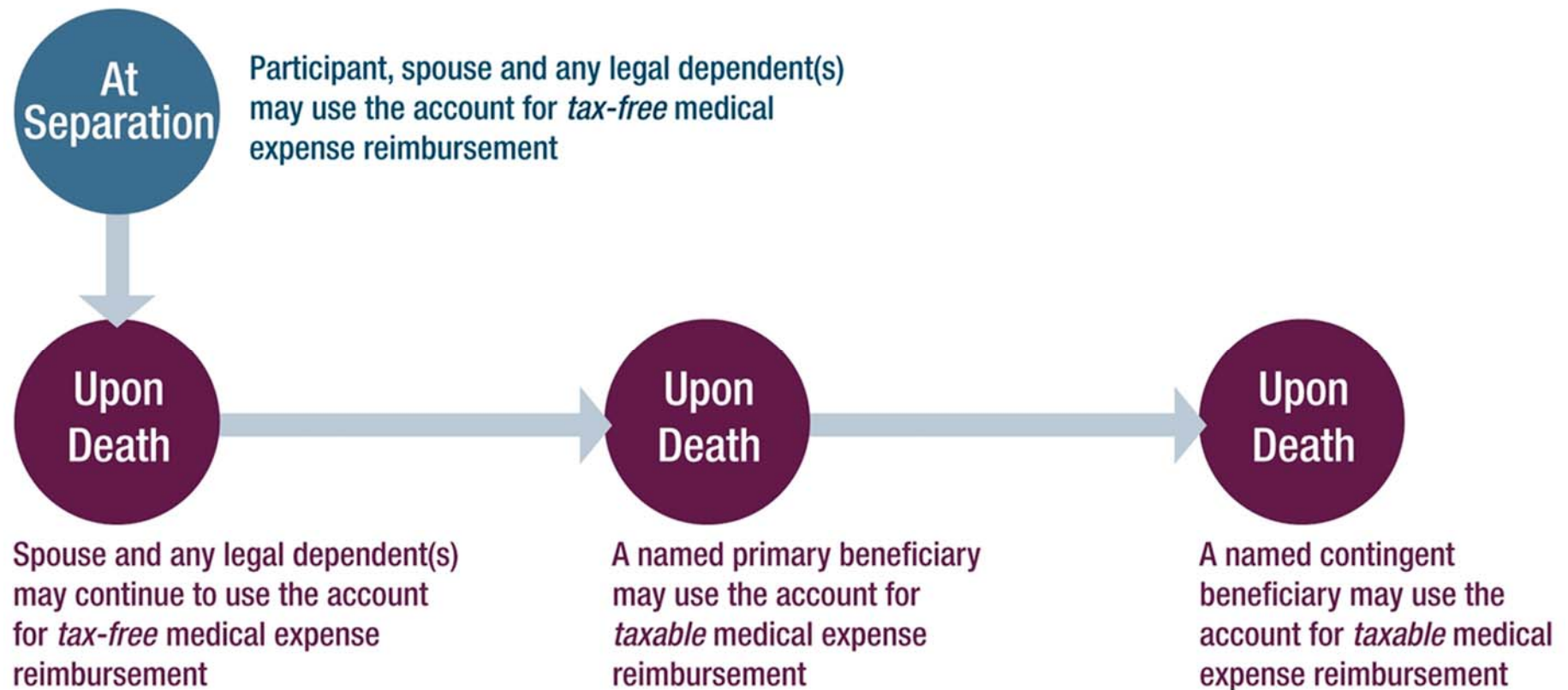
Eligible Reimbursements

- Upon leaving employment, employees can use their account for tax-free reimbursement of eligible medical expenses, regardless of age
- An eligible expense is defined as expenses paid for care as described in Section 213(d) of the Internal Revenue Code
- Examples of eligible reimbursements:
 - Co-pays, deductibles, and insurance premiums
 - Ambulance services
 - Vision and dental services
 - Physical therapy
 - Long-term care insurance
 - Medicare premiums



A Benefit That Keeps Working

Unique to MERS is the ability for a participant to designate beneficiaries other than a spouse or legal dependent



Using the Account



mySourceCard® Debit Card

A MasterCard® card that automatically debits the account when making qualified medical expense purchases.



Online Reimbursements

Participants can request reimbursements online by using myMERS online account and the reimbursements will be directly deposited in their bank account.



Reimbursements by Mail or Fax

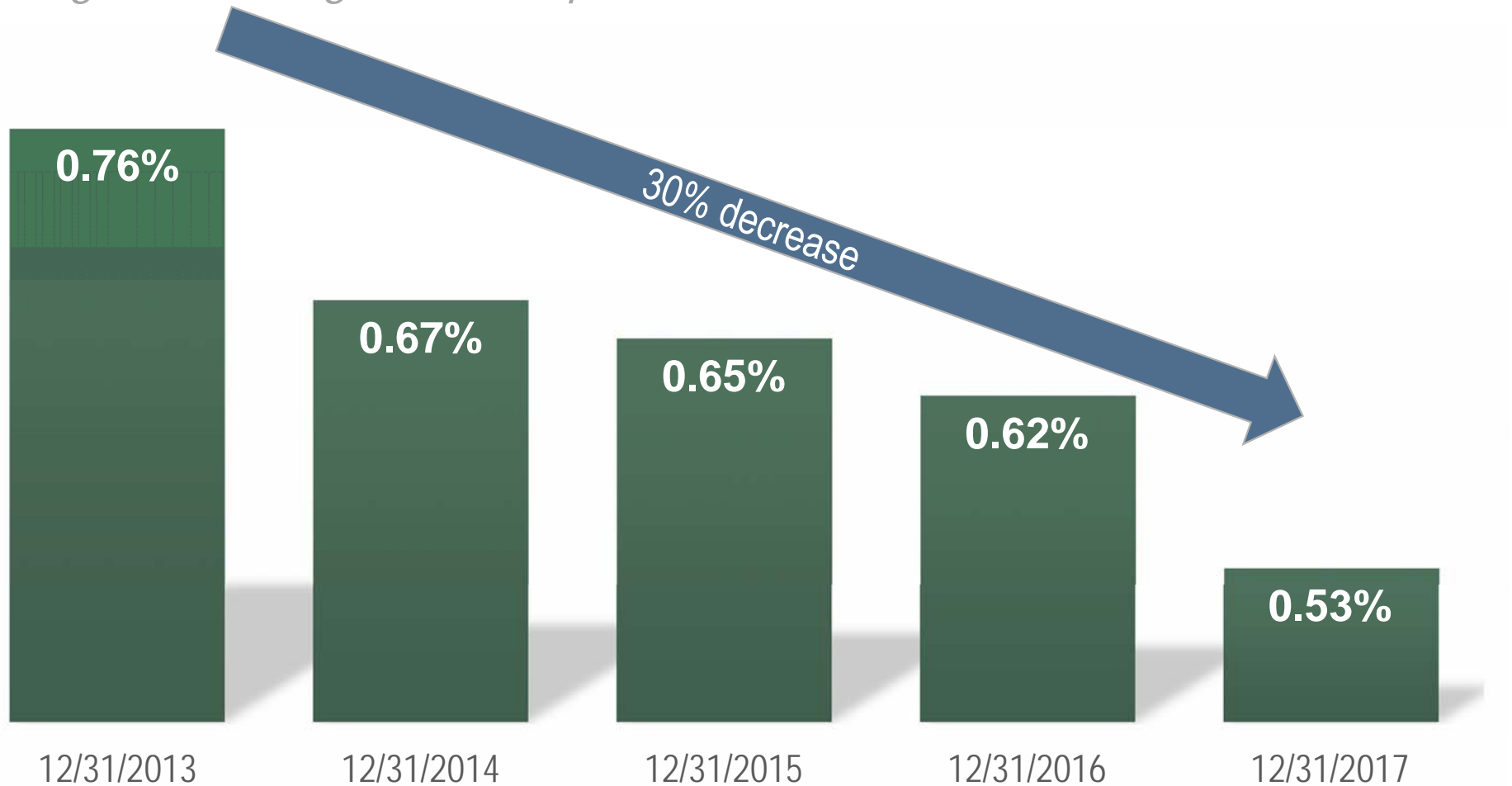
Participants may submit their request by mail or fax by completing the reimbursement form along with copies of applicable receipts. The reimbursements are then processed by direct deposit.



Health Care Savings Account *Provider Comparison*

A History of Cost Reduction

Weighted Average Fund Expense



The MERS weighted average fund cost is determined by the percentage of assets participants invest in each fund offered on the MERS Health Care Savings Program's Investment Menu.

HCSP Provider Comparison *ICMA-RC*

HCSP Weighted Averages (Appendix IX)	ICMA-RC	MERS	Difference
Expense			
Asset-Weighted Average Expense	1.13%	0.43%	-0.70%
Performance			
1-Year Asset-Weighted Average Performance	10.96%	11.39%	0.43%
3-Year Asset-Weighted Average Performance	6.10%	6.85%	0.75%
5-Year Asset-Weighted Average Performance	8.02%	7.95%	-0.07%

HCSP Weighted Average is calculated by multiplying expense or performance by the percentage of assets held in each fund. Additional notes:

- 1) Plymouth Township provided MERS with its ICMA-RC "Quarterly Financial Report," for 1/1/2018 – 3/31/2018, for the amount invested in each fund, and its ICMA-RC "Fund Performance, Quarterly Report as of 3/31/2018" for the performance and fee data used in this comparison.
- 2) The funds are mapped to the closest "like-style" asset class available on the MERS investment menu, as shown in the corresponding appendix.
- 3) 1, 3, and 5-Year Impact (Performance, Less Fund Fees) are used because several funds do not have longer performance history.
- 4) The fees reflected for ICMA-RC include each fund's "Net Expense Ratio" as stated in the ICMA-RC "Fund Performance, Quarterly Report as of 3/31/2018," which was provided by Plymouth Township. These fees are shown in Appendix VIII. The fees reflected for MERS include all operating, custody, recordkeeping, and investment management expense charged by MERS on all of its funds, as shown in Appendix II.
- 5) The weighted averages shown above are not intended to show actual expense or performance experienced by the plan during the periods shown because the calculation does not account for plan activity (i.e. contributions, distributions, participant transfers between investment options) during the periods. The weighted averages reflect a hypothetical illustration based on assets held in each investment option as reported at a specific point in time.

Why Fund Costs Matter *Hypothetical Example*

John's HCSP Benefit

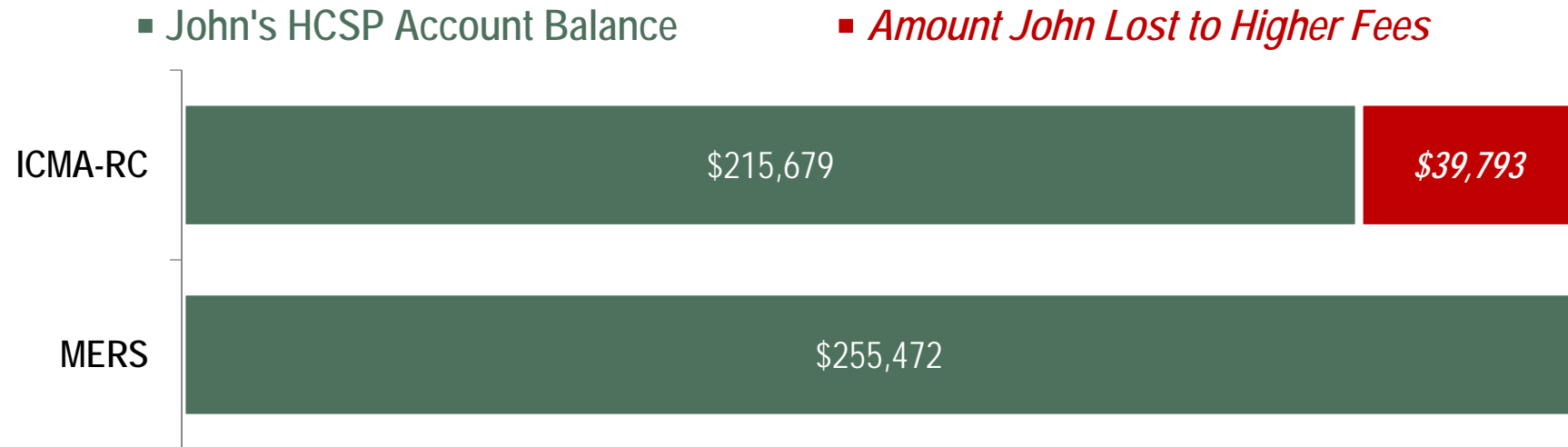
- John is 25 years old, currently makes \$40,000/year, and anticipates a 2% annual salary increase
- His employer makes contributions into his post-employment health account of \$75 bi-weekly. John currently has no balance in his account
- He expects a 7% investment return *before factoring in investment expenses*
- John plans to retire at age 60
 - He plans to take reimbursements from his post-employment health account in equal monthly payments until age 65 (Medicare Eligibility Age) for a total of 5 years of reimbursements
 - He anticipates a lower investment return of 5% during the planned reimbursement period *before factoring in investment expenses*



Impact of Fees on John's Account Growth

Hypothetical Account Growth Illustration (Appendix X)

In this comparison, MERS' low fund expenses would provide
18% more at retirement!



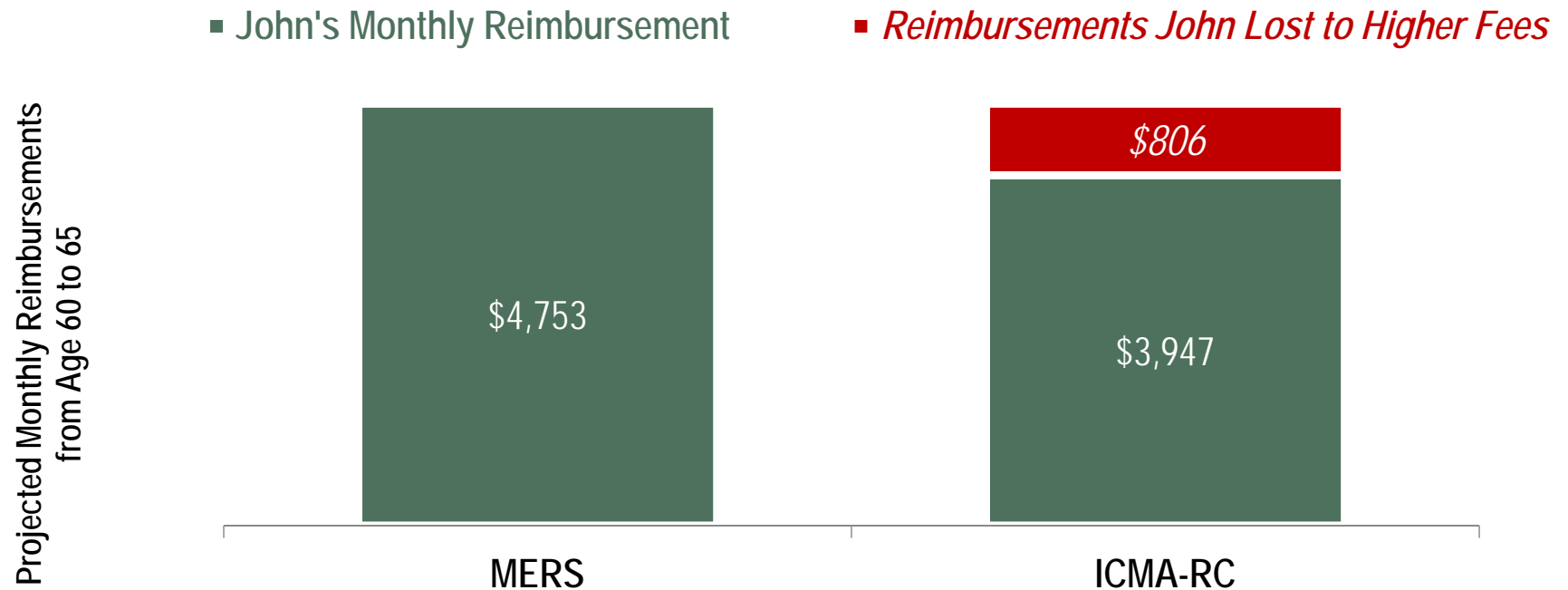
Weighted Average Expense Ratios: ICMA-RC – 1.13% and MERS – 0.43%.

Note: Projections include the \$25 ICMA-RC annual account fee, and the MERS \$24 annual account fee.

Impact of Fees on John's Retirement

Hypothetical Account Reimbursement Illustration (Appendix XI)

MERS' low fund expenses would provide
20% more in monthly reimbursement during retirement!



Weighted Average Expense Ratios: ICMA-RC – 1.13% and MERS – 0.43%.

Note: Projections include the \$25 ICMA-RC annual account fee, and the MERS \$24 annual account fee.



Participant Education and Resources

Retirement Readiness Reports

- Plan providers often offer financial planning for a fee
- MERS provides a solution that reaches a broader percentage of participants
- Retirement Readiness reports provide individual guidance at no additional cost to the participant or the employer

Retirement Readiness Snapshot Reports



Developing the Full Retirement Picture

The “Full Picture” report allows participants to:

- ⊕ Add spouse and outside investment information online to build their “Full Picture” report
- ⊕ Identify their risk tolerance and receive customized suggestions for improving their retirement readiness



Increase retirement savings



Review investment selections



Consider delaying retirement



Adjust retirement income replacement rate



MERS Investment Guidance

- Online investment guidance available to participants through *Guidance Plus!*
- Risk Advisor helps participants determine their personal tolerance for risk
- Resource for information on key investing concepts:
 - Plan Ahead - importance of time, effect of inflation, etc.
 - Save for the Future - rate of return, pre-tax vs. Roth savings, employer contributions, rollovers, etc.
 - Invest Wisely - investment categories, management styles, glossary of terms, risk vs. return, diversification, etc.

Resources



One Click Away

- To keep up with trending information related to retirement follow us on Facebook, Twitter, LinkedIn and YouTube
- Our website provides helpful calculators and sound advice via our CentsAbility blog



Quick Bite Webinars

- Our webinar series delivers online education
- Participants can tune in live and ask questions or view recorded sessions from the library of topics any time



Pizza & Planning

- Free, local education for employees held after traditional work hours
- Hosted at various locations throughout the state



On-site education

- Group presentation can be held at your location during work hours or whenever is convenient for your employees
- Attend benefit fairs
- One-on-one meetings for all MERS programs



Benefits of Partnering with MERS

- ✓ Fiduciary responsibility and plan compliance
- ✓ Customer service excellence
 - Participant education
 - Employer resources
 - MERS Regional Team
- ✓ Cost effective benefits
 - No cost to the employer
 - Low participant fees
 - Oversight and administration
- ✓ Participant Resources
 - Guidance Plus
 - Retirement readiness

Appendix I *John Hancock Fund Expenses*

Funds	Expense Ratio	JH Services	Third Party Services	Total Expense Ratio
JH Multi Idx Income	0.79%	0.03%	0.22%	1.04%
JH Multi Idx 2020	0.76%	0.03%	0.22%	1.01%
JH Multi Idx 2025	0.76%	0.03%	0.22%	1.01%
JH Multi Idx 2030	0.77%	0.03%	0.22%	1.02%
JH Multi Idx 2035	0.77%	0.03%	0.22%	1.02%
JH Multi Idx 2040	0.77%	0.03%	0.22%	1.02%
JH Multi Idx 2045	0.78%	0.03%	0.22%	1.03%
JH Multi Idx 2050	0.79%	0.03%	0.22%	1.04%
JH Multi Idx 2055	0.79%	0.03%	0.22%	1.04%
JH Multi Idx 2060	0.78%	0.03%	0.22%	1.03%
JH MM 2010	0.97%	0.03%	0.22%	1.22%
JH MM 2015	0.98%	0.03%	0.22%	1.23%
JH MM 2020	0.98%	0.03%	0.22%	1.23%
JH MM 2025	0.98%	0.03%	0.22%	1.23%
JH MM 2030	0.98%	0.03%	0.22%	1.23%
JH MM 2035	1.00%	0.03%	0.22%	1.25%
JH MM 2040	1.00%	0.03%	0.22%	1.25%
JH MM 2045	1.00%	0.03%	0.22%	1.25%
JH MM 2050	1.01%	0.03%	0.22%	1.26%
JH MM 2055	1.00%	0.03%	0.22%	1.25%
JH MM 2060	0.99%	0.03%	0.22%	1.24%
<i>Average Target Date Fund</i>				<i>1.14%</i>
JH MM Aggressive LS	1.14%	0.03%	0.22%	1.39%
JH MM Growth LS	1.09%	0.03%	0.22%	1.34%
JH MM Balanced LS	1.05%	0.03%	0.22%	1.30%
JH MM Moderate LS	1.01%	0.03%	0.22%	1.26%
JH MM Conservative LS	0.97%	0.03%	0.22%	1.22%
Frnkln FF Allocation	1.10%	0.03%	0.22%	1.35%
Frnkln Mtl Beacon	1.15%	0.03%	0.22%	1.40%
Income Fund of Am	0.89%	0.03%	0.22%	1.13%
American Balanced	0.88%	0.03%	0.22%	1.13%
Pax Wrld Balanced	1.13%	0.03%	0.22%	1.38%
TRP Cap Appr	1.15%	0.03%	0.22%	1.40%
<i>Average Asset Allocation Fund</i>				<i>1.30%</i>

Appendix I *John Hancock Fund Expenses*

Funds	Expense Ratio	JH Services	Third Party Services	Total Expense Ratio
Aberdeen Intl Eq	1.32%	0.03%	0.22%	1.57%
AC Heritage	1.26%	0.03%	0.22%	1.51%
AMG Mngrs FP MC	1.44%	0.03%	0.22%	1.69%
DFA EM Val	1.17%	0.03%	0.22%	1.42%
DFA Intl Val	1.03%	0.03%	0.22%	1.28%
DFA US Trgted Val	0.97%	0.03%	0.22%	1.22%
DFA US SC	0.97%	0.03%	0.22%	1.22%
D&C Intl Stk	1.14%	0.03%	0.22%	1.39%
EuroPacific Gr	1.09%	0.03%	0.22%	1.34%
FA Lvrgrd Co Stk	1.16%	0.03%	0.22%	1.41%
Financial Ind	1.27%	0.03%	0.22%	1.52%
Frnkln Sm-Mid Gr	1.05%	0.03%	0.22%	1.30%
Intl Eq Idx	0.72%	0.03%	0.22%	0.97%
Intl SC	1.20%	0.03%	0.22%	1.45%
Intl Val	1.01%	0.03%	0.22%	1.26%
Inves Intl Gr	1.24%	0.03%	0.22%	1.49%
Inves SC Gr	1.09%	0.03%	0.22%	1.34%
IShares Gold	0.91%	0.03%	0.22%	1.16%
iShares EAFE Gr	1.06%	0.03%	0.22%	1.31%
iShares EAFE Val	1.05%	0.03%	0.22%	1.30%
JH Disc Val Intl	1.03%	0.03%	0.22%	1.28%
JH Disc Val MC	0.92%	0.03%	0.22%	1.17%
JH Intl Gr	1.06%	0.03%	0.22%	1.31%
JPM MC Val	1.25%	0.03%	0.22%	1.50%
Keeley SC Val	1.50%	0.03%	0.22%	1.75%
LA Val Opps	1.25%	0.03%	0.22%	1.50%
MC Idx	0.66%	0.03%	0.22%	0.91%
MC Stk	1.02%	0.03%	0.22%	1.27%
MC Val	1.14%	0.03%	0.22%	1.39%
Natural Res	1.12%	0.03%	0.22%	1.37%
New Opps	0.95%	0.03%	0.22%	1.20%
New Wrld	1.24%	0.03%	0.22%	1.49%
Nrthn EM Eq Idx	0.75%	0.03%	0.22%	1.00%
Nrthn SC Val	1.21%	0.03%	0.22%	1.46%

Appendix I *John Hancock Fund Expenses*

Funds	Expense Ratio	JH Services	Third Party Services	Total Expense Ratio
Opp Dev Mkt	1.42%	0.03%	0.22%	1.67%
Oppr Intl Gr	1.20%	0.03%	0.22%	1.45%
PIMCO Cmdty RR Str	1.34%	0.03%	0.22%	1.59%
PruJen MC Gr	1.14%	0.03%	0.22%	1.39%
Real Est Sec	0.89%	0.03%	0.22%	1.14%
Royce Opp	1.59%	0.03%	0.22%	1.84%
Royce Penn	1.33%	0.03%	0.22%	1.58%
Sci & Tech	1.23%	0.03%	0.22%	1.48%
SC Gr	1.20%	0.03%	0.22%	1.45%
SC Idx	0.68%	0.03%	0.22%	0.93%
SC Val	1.27%	0.03%	0.22%	1.52%
Sm Co Val	1.37%	0.03%	0.22%	1.62%
SMALLCAP Wrld	1.30%	0.03%	0.22%	1.55%
TRP Sci & Tech	1.26%	0.03%	0.22%	1.51%
TRP SC Val	1.38%	0.03%	0.22%	1.63%
Tocqueville Gold	1.49%	0.03%	0.22%	1.74%
VG Energy	0.93%	0.03%	0.22%	1.18%
VG Explorer	0.92%	0.03%	0.22%	1.17%
VG MC Gr	0.73%	0.03%	0.22%	0.98%
VG MC Val	0.73%	0.03%	0.22%	0.98%
VG SC Gr Idx	0.67%	0.03%	0.22%	0.92%
VG SC Val Idx	0.67%	0.03%	0.22%	0.92%
Wisdom Tr MC Div	1.04%	0.03%	0.22%	1.29%
Wisdom Tr MC Erngs	1.04%	0.03%	0.22%	1.29%
Wisdom Tr SC Div	1.04%	0.03%	0.22%	1.29%
500 Index	0.63%	0.03%	0.22%	0.88%
BR Basic Val	0.89%	0.03%	0.22%	1.14%
BR Global	1.15%	0.03%	0.22%	1.40%
Blue Chip Gr	0.94%	0.03%	0.22%	1.19%
Cap Appr	0.89%	0.03%	0.22%	1.14%
Cap Inc Builder	0.89%	0.03%	0.22%	1.14%
Cap Wrld Gr & Inc	1.04%	0.03%	0.22%	1.29%
CB Aggr Gr	1.22%	0.03%	0.22%	1.47%
D&C Stk	1.02%	0.03%	0.22%	1.27%

Appendix I *John Hancock Fund Expenses*

Funds	Expense Ratio	JH Services	Third Party Services	Total Expense Ratio
Domini Impact Eq	1.29%	0.03%	0.22%	1.54%
Eq Inc	0.93%	0.03%	0.22%	1.18%
FA New Insights	1.03%	0.03%	0.22%	1.28%
Fid Contra	1.09%	0.03%	0.22%	1.34%
Frnkln Mtl Glb Disc	1.34%	0.03%	0.22%	1.59%
Fndmntl All Cap Core	0.85%	0.03%	0.22%	1.10%
Fndmntl Investr	0.90%	0.03%	0.22%	1.15%
Fndmntl LC Val	0.82%	0.03%	0.22%	1.07%
Ivy Asset Strtgy	1.22%	0.03%	0.22%	1.47%
JH Disclnd Val	0.87%	0.03%	0.22%	1.12%
JPM LC Gr	1.04%	0.03%	0.22%	1.29%
JPM US Eq	0.94%	0.03%	0.22%	1.19%
Mass Invstr	0.83%	0.03%	0.22%	1.08%
New Perspctv	1.04%	0.03%	0.22%	1.29%
Oppr Gbl	1.25%	0.03%	0.22%	1.50%
Parnassus Core Eq	1.12%	0.03%	0.22%	1.37%
Sit Div Gr	0.90%	0.03%	0.22%	1.15%
TRP Eq Inc	1.11%	0.03%	0.22%	1.36%
TRP Hlth Sci	1.22%	0.03%	0.22%	1.47%
Tmpltn Wrld	1.15%	0.03%	0.22%	1.40%
Gr Fund of Am	0.93%	0.03%	0.22%	1.18%
Invstmnt Co of Am	0.90%	0.03%	0.22%	1.15%
Ttl Stk Mkt Idx	0.68%	0.03%	0.22%	0.93%
US Gr	0.90%	0.03%	0.22%	1.15%
Utilities	1.03%	0.03%	0.22%	1.28%
VG Gr Idx	0.66%	0.03%	0.22%	0.91%
VG Ttl Wld Stk Idx	0.76%	0.03%	0.22%	1.01%
VG Val Idx	0.66%	0.03%	0.22%	0.91%
Victory Divrsfd Stk	1.15%	0.03%	0.22%	1.40%
Wash Mtl Invstrs	0.90%	0.03%	0.22%	1.15%
<i>Average Stock Fund</i>				<i>1.30%</i>

Appendix I *John Hancock Fund Expenses*

Funds	Expense Ratio	JH Services	Third Party Services	Total Expense Ratio
Cap Wrld Bd	1.14%	0.03%	0.22%	1.39%
Fedrtld Instl HY Bd	1.05%	0.03%	0.22%	1.30%
Floating Rate Inc	0.91%	0.03%	0.22%	1.16%
Glbl Bd	0.93%	0.03%	0.22%	1.18%
High Yld	0.89%	0.03%	0.22%	1.14%
JH Alt Asst	1.65%	0.03%	0.22%	1.90%
MFS EM Dbt	1.19%	0.03%	0.22%	1.44%
Oppr Intl Bd	1.10%	0.03%	0.22%	1.35%
Pydn/Krvtz CB Plan	1.35%	0.03%	0.22%	1.60%
PIMCO All Asset All Auth	1.80%	0.03%	0.22%	2.05%
PIMCO All Asset	1.47%	0.03%	0.22%	1.72%
PIMCO Glbl Bd	1.15%	0.03%	0.22%	1.40%
Strat Inc Opps	0.84%	0.03%	0.22%	1.09%
TRP Spectrum Inc	1.14%	0.03%	0.22%	1.39%
Tmpltn Glbl Bd	1.03%	0.03%	0.22%	1.28%
US HY Bd	0.95%	0.03%	0.22%	1.20%
Core Bd	0.77%	0.03%	0.22%	1.02%
DFA Infl Prt Sec	0.72%	0.03%	0.22%	0.97%
FA Ttl Bd	0.85%	0.03%	0.22%	1.10%
JH Bd	0.75%	0.03%	0.22%	1.00%
PIMCO RI Rtn	1.05%	0.03%	0.22%	1.30%
RI Rtn Bd	0.85%	0.03%	0.22%	1.10%
Ttl Bd Mrkt	0.67%	0.03%	0.22%	0.92%
US Gov Sec	0.87%	0.03%	0.22%	1.12%
Money Mrkt	0.63%	0.03%	0.22%	0.88%
TRP Shrt Trm Bd	0.91%	0.03%	0.22%	1.16%
VG Shrt trm Fed	0.70%	0.03%	0.22%	0.95%
<i>Average Fixed Income Fund</i>				1.26%
Arithmetic Average Fund Expense--ALL FUNDS				1.27%

Appendix II *MERS Average Fund Expenses*

MERS Funds (as of 3/31/2018)					
<i>Target Date Funds</i>	Investment Management Expense	Fund Company Rebate	Custody and Record-keeping Costs	MERS Operating Costs	Annual Expenses
2005 Retirement Strategy	0.12%	0.00%	0.15%	0.15%	0.42%
2010 Retirement Strategy	0.12%	0.00%	0.15%	0.15%	0.42%
2015 Retirement Strategy	0.13%	0.00%	0.15%	0.15%	0.43%
2020 Retirement Strategy	0.13%	0.00%	0.15%	0.15%	0.43%
2025 Retirement Strategy	0.13%	0.00%	0.15%	0.15%	0.43%
2030 Retirement Strategy	0.13%	0.00%	0.15%	0.15%	0.43%
2035 Retirement Strategy	0.13%	0.00%	0.15%	0.15%	0.43%
2040 Retirement Strategy	0.13%	0.00%	0.15%	0.15%	0.43%
2045 Retirement Strategy	0.13%	0.00%	0.15%	0.15%	0.43%
2050 Retirement Strategy	0.13%	0.00%	0.15%	0.15%	0.43%
2055 Retirement Strategy	0.13%	0.00%	0.15%	0.15%	0.43%
2060 Retirement Strategy	0.12%	0.00%	0.15%	0.15%	0.42%
Average Target Date Fund					0.43%
<i>Asset Allocation Funds</i>	Investment Management Expense	Fund Company Rebate	Custody and Record-keeping Costs	MERS Operating Costs	Annual Expenses
MERS Global Stock Portfolio (100/0)	0.38%	0.00%	0.15%	0.15%	0.68%
MERS Capital Appreciation Portfolio (80/20)	0.26%	0.00%	0.15%	0.15%	0.56%
MERS Established Market Portfolio (60/40)	0.25%	0.00%	0.15%	0.15%	0.55%
MERS Total Market Portfolio	0.28%	0.00%	0.15%	0.15%	0.58%
MERS Balanced Income Portfolio (40/60)	0.23%	0.00%	0.15%	0.15%	0.53%
MERS Capital Preservation Portfolio (20/80)	0.18%	0.00%	0.15%	0.15%	0.48%
MERS Diversified Bond Portfolio (0/100)	0.20%	0.00%	0.15%	0.15%	0.50%
Average Asset Allocation Fund					0.55%

Appendix II *MERS Average Fund Expenses*

MERS Funds (as of 3/31/2018)					
<i>Stock Funds</i>	Investment Management Expense	Fund Company Rebate	Custody and Record-keeping Costs	MERS Operating Costs	Annual Expenses
Large Cap Stock Index	0.05%	0.00%	0.15%	0.15%	0.35%
Mid Cap Stock Index	0.05%	0.00%	0.15%	0.15%	0.35%
Small Cap Stock Index	0.05%	0.00%	0.15%	0.15%	0.35%
International Stock Index	0.09%	0.00%	0.15%	0.15%	0.39%
Emerging Market Stock	0.91%	0.00%	0.15%	0.15%	1.21%
Real Estate Stock	0.96%	-0.45%	0.15%	0.15%	0.81%
Average Stock Fund					0.58%
<i>Bond & Stable Value Funds</i>	Investment Management Expense	Fund Company Rebate	Custody and Record-keeping Costs	MERS Operating Costs	Annual Expenses
Stable Value (Not Available to HCSP)	0.30%	0.00%	0.15%	0.15%	0.60%
Short-Term Income	0.05%	0.00%	0.15%	0.15%	0.35%
Bond Index	0.15%	0.00%	0.15%	0.15%	0.45%
High Yield Bond	0.55%	0.00%	0.15%	0.15%	0.85%
Average Bond & Stable Value Fund					0.56%
Arithmetic Average of ALL MERS Funds					0.50%

Appendix III *John Hancock Asset-Weighted Calculation*

DC Plan Current Provider	Exp.	Plan Assets	% of Plan	1 Yr	3 Yr	5 Yr	Wtd Exp	Wtd 1 Yr	Wtd 3 Yr	Wtd 5 Yr	MERS	Exp.	1 Yr	3 Yr	5 Yr	Wtd Exp	Wtd 1 Yr	Wtd 3 Yr	Wtd 5 Yr
JH Multi Idx 2020	1.01%	\$8,558	0.1%	2.88%	2.34%	3.48%	0.00%	0.00%	0.00%	0.00%	2020 Retirement Strategy	0.43%	7.97%	4.90%	5.65%	0.00%	0.01%	0.01%	0.01%
JH Multi Idx 2025	1.01%	\$39,398	0.5%	5.84%	3.96%	5.27%	0.00%	0.03%	0.02%	0.02%	2025 Retirement Strategy	0.43%	9.07%	5.50%	6.43%	0.00%	0.04%	0.03%	0.03%
JH Multi Idx 2040	1.02%	\$15,164	0.2%	11.21%	6.93%	8.16%	0.00%	0.02%	0.01%	0.01%	2040 Retirement Strategy	0.43%	12.42%	7.27%	8.46%	0.00%	0.02%	0.01%	0.02%
JH Multi Idx 2045	1.03%	\$2,165	0.0%	11.61%	7.19%	8.36%	0.00%	0.00%	0.00%	0.00%	2045 Retirement Strategy	0.43%	13.07%	7.57%	8.64%	0.00%	0.00%	0.00%	0.00%
JH Multi Idx 2055	1.04%	\$20,105	0.3%	11.66%	7.20%	8.35%	0.00%	0.03%	0.02%	0.02%	2055 Retirement Strategy	0.43%	13.07%	7.59%	8.64%	0.00%	0.03%	0.02%	0.02%
JH MM 2020	1.23%	\$70,458	0.9%	8.26%	5.46%	6.77%	0.01%	0.07%	0.05%	0.06%	2020 Retirement Strategy	0.43%	7.97%	4.90%	5.65%	0.00%	0.07%	0.04%	0.05%
JH MM 2025	1.23%	\$144,257	1.8%	9.91%	6.28%	7.77%	0.02%	0.17%	0.11%	0.13%	2025 Retirement Strategy	0.43%	9.07%	5.50%	6.43%	0.01%	0.16%	0.10%	0.12%
JH MM 2030	1.23%	\$7,482	0.1%	11.39%	6.94%	8.55%	0.00%	0.01%	0.01%	0.01%	2030 Retirement Strategy	0.43%	10.11%	6.10%	7.18%	0.00%	0.01%	0.01%	0.01%
JH MM 2045	1.25%	\$429	0.0%	13.63%	7.94%	9.44%	0.00%	0.00%	0.00%	0.00%	2045 Retirement Strategy	0.43%	13.07%	7.57%	8.64%	0.00%	0.00%	0.00%	0.00%
JH MM Aggressive LS	1.39%	\$130,235	1.6%	15.47%	8.17%	9.98%	0.02%	0.25%	0.13%	0.16%	MERS Gbl Stk Portfolio	0.68%	15.27%	9.42%	10.85%	0.01%	0.25%	0.15%	0.18%
JH MM Growth LS	1.34%	\$1,058,876	13.3%	12.50%	7.00%	8.65%	0.18%	1.62%	0.89%	1.10%	MERS Cap Appr Portfolio	0.56%	12.18%	8.43%	9.13%	0.07%	1.61%	1.12%	1.21%
JH MM Balanced LS	1.30%	\$1,336,175	16.7%	9.51%	5.78%	6.93%	0.22%	1.55%	0.93%	1.10%	MERS Total Mkt Portfolio	0.58%	9.80%	6.74%	7.41%	0.10%	1.64%	1.13%	1.24%
JH MM Moderate LS	1.26%	\$240,008	3.0%	6.46%	4.56%	5.14%	0.04%	0.19%	0.13%	0.14%	MERS Bal Inc Portfolio	0.53%	6.78%	5.44%	5.54%	0.02%	0.20%	0.16%	0.17%
JH MM Conservative LS	1.22%	\$362,252	4.5%	3.79%	3.01%	3.39%	0.06%	0.16%	0.13%	0.14%	MERS Cap Pres Portfolio	0.48%	4.00%	4.03%	3.96%	0.02%	0.18%	0.18%	0.18%
Income Fund of Am	1.13%	\$63,013	0.8%	6.85%	5.88%	7.47%	0.01%	0.05%	0.04%	0.06%	MERS Total Mkt Portfolio	0.58%	9.80%	6.74%	7.41%	0.00%	0.08%	0.05%	0.06%
American Balanced	1.13%	\$293,193	3.7%	9.11%	7.40%	9.04%	0.04%	0.33%	0.26%	0.32%	MERS Cap Appr Portfolio	0.56%	12.18%	8.43%	9.13%	0.02%	0.45%	0.31%	0.34%
AMG Mngrs FP MC	1.69%	\$4,227	0.1%	0.05%	4.68%	10.01%	0.00%	0.00%	0.00%	0.01%	Mid Cap Stock Index	0.35%	10.49%	8.73%	11.77%	0.00%	0.01%	0.00%	0.01%
DFA US Trgted Val	1.22%	\$483,734	6.1%	6.28%	6.61%	9.98%	0.07%	0.37%	0.39%	0.58%	Small Cap Stock Index	0.35%	12.80%	10.77%	13.21%	0.02%	0.78%	0.65%	0.80%
D&C Intl Stk	1.39%	\$1,684	0.0%	10.40%	3.24%	6.75%	0.00%	0.00%	0.00%	0.00%	International Stock Index	0.39%	14.83%	5.34%	5.97%	0.00%	0.00%	0.00%	0.00%
EuroPacific Gr	1.34%	\$103,198	1.3%	20.43%	7.28%	8.18%	0.02%	0.26%	0.09%	0.10%	International Stock Index	0.39%	14.83%	5.34%	5.97%	0.01%	0.19%	0.07%	0.08%
Frnkln Sm-Mid Gr	1.30%	\$42,241	0.5%	16.95%	6.11%	11.35%	0.01%	0.09%	0.03%	0.06%	Small Cap Stock Index	0.35%	12.80%	10.77%	13.21%	0.00%	0.07%	0.06%	0.07%
IShares Gold	1.16%	\$3,294	0.0%	5.12%	3.02%	-4.44%	0.00%	0.00%	0.00%	0.00%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.00%	0.01%	0.00%	0.01%
JPM MC Val	1.50%	\$120	0.0%	6.94%	5.91%	10.50%	0.00%	0.00%	0.00%	0.00%	Mid Cap Stock Index	0.35%	10.49%	8.73%	11.77%	0.00%	0.00%	0.00%	0.00%
MC Idx	0.91%	\$37,227	0.5%	10.33%	8.27%	11.30%	0.00%	0.05%	0.04%	0.05%	Mid Cap Stock Index	0.35%	10.49%	8.73%	11.77%	0.00%	0.05%	0.04%	0.05%
New Wrld	1.49%	\$66,780	0.8%	21.12%	8.19%	6.29%	0.01%	0.17%	0.07%	0.05%	Emerging Market Stock	1.21%	21.94%	11.04%	6.32%	0.01%	0.18%	0.09%	0.05%
Opp Dev Mkt	1.67%	\$18,923	0.2%	24.86%	8.79%	5.52%	0.00%	0.06%	0.02%	0.01%	Emerging Market Stock	1.21%	21.94%	11.04%	6.32%	0.00%	0.05%	0.03%	0.01%
Oppr Intl Gr	1.45%	\$1,219	0.0%	17.60%	6.97%	6.86%	0.00%	0.00%	0.00%	0.00%	International Stock Index	0.39%	14.83%	5.34%	5.97%	0.00%	0.00%	0.00%	0.00%
PrwJen MC Gr	1.39%	\$4,502	0.1%	13.55%	5.41%	9.82%	0.00%	0.01%	0.00%	0.01%	Mid Cap Stock Index	0.35%	10.49%	8.73%	11.77%	0.00%	0.01%	0.00%	0.01%
Real Est Sec	1.14%	\$54,048	0.7%	-1.02%	1.57%	6.25%	0.01%	-0.01%	0.01%	0.04%	Real Estate Stock	0.81%	-1.29%	1.67%	6.19%	0.01%	-0.01%	0.01%	0.04%
Sci & Tech	1.48%	\$234,276	2.9%	33.71%	19.56%	21.66%	0.04%	0.98%	0.57%	0.62%	Small Cap Stock Index	0.35%	12.80%	10.77%	13.21%	0.01%	0.38%	0.32%	0.39%
SC Val	1.52%	\$29,608	0.4%	0.93%	4.87%	8.90%	0.01%	0.00%	0.02%	0.03%	Small Cap Stock Index	0.35%	12.80%	10.77%	13.21%	0.00%	0.05%	0.04%	0.05%

Appendix III *John Hancock Asset-Weighted Calculation*

DC Plan Current Provider	Exp.	Plan Assets	% of Plan	1 Yr	3 Yr	5 Yr	Wtd Exp	Wtd 1 Yr	Wtd 3 Yr	Wtd 5 Yr	MERS	Exp.	1 Yr	3 Yr	5 Yr	Wtd Exp	Wtd 1 Yr	Wtd 3 Yr	Wtd 5 Yr
Sm Co Val	1.62%	\$53,343	0.7%	8.46%	10.10%	9.68%	0.01%	0.05%	0.07%	0.06%	Small Cap Stock Index	0.35%	12.80%	10.77%	13.21%	0.00%	0.09%	0.07%	0.09%
Tocqueville Gold	1.74%	\$4,817	0.1%	-7.77%	4.41%	-8.30%	0.00%	0.00%	0.00%	-0.01%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.00%	0.01%	0.01%	0.01%
VG Energy	1.18%	\$36,699	0.5%	4.34%	1.70%	-0.37%	0.01%	0.02%	0.01%	0.00%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.00%	0.06%	0.05%	0.06%
VG SC Gr Idx	0.92%	\$96,921	1.2%	16.68%	7.47%	10.78%	0.01%	0.20%	0.09%	0.13%	Small Cap Stock Index	0.35%	12.80%	10.77%	13.21%	0.00%	0.16%	0.13%	0.16%
VG SC Val Idx	0.92%	\$108	0.0%	6.71%	7.31%	10.99%	0.00%	0.00%	0.00%	0.00%	Small Cap Stock Index	0.35%	12.80%	10.77%	13.21%	0.00%	0.00%	0.00%	0.00%
500 Index	0.88%	\$210,691	2.6%	13.30%	10.07%	12.61%	0.02%	0.34%	0.26%	0.32%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.01%	0.36%	0.27%	0.34%
BR Basic Val	1.14%	\$3,334	0.0%	5.52%	4.54%	9.70%	0.00%	0.00%	0.00%	0.00%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.00%	0.01%	0.00%	0.01%
BR Global	1.40%	\$9,419	0.1%	7.91%	3.99%	5.24%	0.00%	0.01%	0.00%	0.01%	MERS Gbl Stk Portfolio	0.68%	15.27%	9.42%	10.85%	0.00%	0.02%	0.01%	0.01%
Blue Chip Gr	1.19%	\$69,760	0.9%	30.44%	14.93%	18.02%	0.01%	0.26%	0.13%	0.15%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.00%	0.12%	0.09%	0.11%
Cap Appr	1.14%	\$26,860	0.3%	28.35%	13.89%	17.09%	0.00%	0.09%	0.05%	0.06%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.00%	0.05%	0.03%	0.04%
Cap Inc Builder	1.14%	\$25,941	0.3%	5.66%	4.27%	5.70%	0.00%	0.02%	0.01%	0.02%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.00%	0.04%	0.03%	0.04%
CB Aggr Gr	1.47%	\$55,696	0.7%	5.71%	3.87%	10.50%	0.01%	0.04%	0.03%	0.07%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.00%	0.09%	0.07%	0.09%
D&C Stk	1.27%	\$61,376	0.8%	10.21%	10.32%	12.79%	0.01%	0.08%	0.08%	0.10%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.00%	0.10%	0.08%	0.10%
Eq Inc	1.18%	\$110	0.0%	9.81%	8.24%	9.45%	0.00%	0.00%	0.00%	0.00%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.00%	0.00%	0.00%	0.00%
FA New Insights	1.28%	\$50,807	0.6%	20.65%	11.39%	13.44%	0.01%	0.13%	0.07%	0.08%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.00%	0.09%	0.07%	0.08%
Fid Contra	1.34%	\$122,404	1.5%	23.34%	12.55%	14.67%	0.02%	0.35%	0.19%	0.22%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.01%	0.21%	0.16%	0.20%
Frnkln Mtl Gbl Disc	1.59%	\$107,899	1.4%	2.00%	3.78%	6.99%	0.02%	0.02%	0.05%	0.09%	MERS Gbl Stk Portfolio	0.68%	15.27%	9.42%	10.85%	0.01%	0.21%	0.13%	0.15%
Fndmntl All Cap Core	1.10%	\$159,210	2.0%	18.34%	11.47%	14.33%	0.02%	0.36%	0.22%	0.28%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.01%	0.27%	0.21%	0.26%
Ivy Asset Strtg	1.47%	\$2,806	0.0%	13.00%	0.44%	3.05%	0.00%	0.00%	0.00%	0.00%	MERS Gbl Stk Portfolio	0.68%	15.27%	9.42%	10.85%	0.00%	0.01%	0.00%	0.00%
JH Disciplnd Val	1.12%	\$3,502	0.0%	12.67%	8.28%	11.49%	0.00%	0.01%	0.00%	0.00%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.00%	0.01%	0.00%	0.01%
JPM US Eq	1.19%	\$183,895	2.3%	12.32%	9.30%	13.06%	0.03%	0.28%	0.21%	0.29%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.01%	0.31%	0.24%	0.30%
Oppr Gbl	1.50%	\$38,850	0.5%	23.10%	9.56%	11.24%	0.01%	0.11%	0.05%	0.05%	MERS Gbl Stk Portfolio	0.68%	15.27%	9.42%	10.85%	0.00%	0.07%	0.05%	0.05%
Sit Div Gr	1.15%	\$3,489	0.0%	12.38%	8.99%	11.04%	0.00%	0.01%	0.00%	0.00%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.00%	0.01%	0.00%	0.01%
TRP Eq Inc	1.36%	\$161,760	2.0%	9.44%	8.02%	9.18%	0.03%	0.19%	0.16%	0.18%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.01%	0.27%	0.21%	0.26%
TRP Hlth Sci	1.47%	\$463,663	5.8%	16.03%	4.36%	17.40%	0.09%	0.92%	0.24%	0.99%	Small Cap Stock Index	0.35%	12.80%	10.77%	13.21%	0.02%	0.74%	0.63%	0.77%
Tmpltn Wrld	1.40%	\$106,841	1.3%	3.41%	3.96%	6.32%	0.02%	0.04%	0.05%	0.08%	MERS Gbl Stk Portfolio	0.68%	15.27%	9.42%	10.85%	0.01%	0.20%	0.13%	0.15%
Invstmnt Co of Am	1.15%	\$75,109	0.9%	11.46%	9.55%	12.31%	0.01%	0.11%	0.09%	0.11%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.00%	0.13%	0.10%	0.12%
US Gr	1.15%	\$88,174	1.1%	25.42%	12.27%	12.59%	0.01%	0.28%	0.13%	0.13%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.00%	0.15%	0.11%	0.14%
Utilities	1.28%	\$151,981	1.9%	4.48%	1.76%	5.55%	0.02%	0.08%	0.03%	0.10%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.01%	0.26%	0.20%	0.24%
VG Ttl Wld Stk Idx	1.01%	\$42,933	0.5%	14.55%	7.93%	9.23%	0.01%	0.08%	0.04%	0.05%	MERS Gbl Stk Portfolio	0.68%	15.27%	9.42%	10.85%	0.00%	0.08%	0.05%	0.06%
VG Val Idx	0.91%	\$87,280	1.1%	10.15%	9.40%	11.55%	0.01%	0.11%	0.10%	0.12%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.00%	0.15%	0.11%	0.14%
Cap Wrld Bd	1.39%	\$16,512	0.2%	6.61%	2.33%	1.29%	0.00%	0.01%	0.00%	0.00%	MERS Div Bond Portfolio	0.50%	1.38%	1.82%	1.60%	0.00%	0.00%	0.00%	0.00%

Appendix III *John Hancock Asset-Weighted Calculation*

DC Plan Current Provider	Exp.	Plan Assets	% of Plan	1 Yr	3 Yr	5 Yr	Wtd Exp	Wtd 1 Yr	Wtd 3 Yr	Wtd 5 Yr	MERS	Exp.	1 Yr	3 Yr	5 Yr	Wtd Exp	Wtd 1 Yr	Wtd 3 Yr	Wtd 5 Yr
Floating Rate Inc	1.16%	\$4,062	0.1%	2.74%	2.90%	2.71%	0.00%	0.00%	0.00%	0.00%	MERS Div Bond Portfolio	0.50%	1.38%	1.82%	1.60%	0.00%	0.00%	0.00%	0.00%
Glbl Bd	1.18%	\$43,302	0.5%	8.00%	3.62%	1.57%	0.01%	0.04%	0.02%	0.01%	MERS Div Bond Portfolio	0.50%	1.38%	1.82%	1.60%	0.00%	0.01%	0.01%	0.01%
High Yld	1.14%	\$110,921	1.4%	3.48%	3.85%	3.42%	0.02%	0.04%	0.05%	0.04%	High Yield Bond	0.85%	2.83%	4.08%	4.17%	0.01%	0.04%	0.06%	0.06%
Strat Inc Opps	1.09%	\$48,264	0.6%	3.34%	2.82%	3.47%	0.01%	0.02%	0.02%	0.02%	MERS Div Bond Portfolio	0.50%	1.38%	1.82%	1.60%	0.00%	0.01%	0.01%	0.01%
TRP Spectrum Inc	1.39%	\$226,180	2.8%	3.83%	3.37%	3.08%	0.04%	0.10%	0.09%	0.08%	MERS Div Bond Portfolio	0.50%	1.38%	1.82%	1.60%	0.01%	0.04%	0.05%	0.05%
Tmpltn Glbl Bd	1.28%	\$4,026	0.1%	-0.87%	1.68%	1.49%	0.00%	0.00%	0.00%	0.00%	MERS Div Bond Portfolio	0.50%	1.38%	1.82%	1.60%	0.00%	0.00%	0.00%	0.00%
Investment Quality Bnd Fund	1.11%	\$3,891	0.0%	1.71%	1.69%	1.86%	0.00%	0.00%	0.00%	0.00%	MERS	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
JH Bd	1.00%	\$104,484	1.3%	1.96%	2.07%	2.82%	0.01%	0.02%	0.02%	0.03%	MERS Div Bond Portfolio	0.50%	1.38%	1.82%	1.60%	0.01%	0.02%	0.02%	0.02%
Money Mkt	0.88%	\$1,300	0.0%	0.48%	-0.03%	-0.19%	0.00%	0.00%	0.00%	0.00%	Stable Value	0.60%	1.88%	1.84%	1.87%	0.00%	0.00%	0.00%	0.00%
TRP Shrt Trm Bd	1.16%	\$3,845	0.0%	0.08%	0.41%	0.38%	0.00%	0.00%	0.00%	0.00%	Stable Value	0.60%	1.88%	1.84%	1.87%	0.00%	0.00%	0.00%	0.00%
VG Shrt trm Fed	0.95%	\$38,410	0.5%	-0.53%	0.03%	0.11%	0.00%	0.00%	0.00%	0.00%	Stable Value	0.60%	1.88%	1.84%	1.87%	0.00%	0.01%	0.01%	0.01%
Plan Totals (without 10 Year Comp)		\$7,987,728	100.0%				1.27%	10.89%	6.50%	8.70%	MERS Totals					0.49%	10.91%	8.05%	9.32%
Difference in Weighted Averages																-0.78%	0.02%	1.55%	0.62%
10 Year Comp (No Information)		\$35,249																	
Plan Totals (with 10 Year Comp)		\$8,022,978																	

Appendix IV *Nationwide Fund Expenses*

Funds	Gross Expense Ratio	Variable Account Expense Fees	Total Expense Ratio
NW Dest 2015	0.64%	0.70%	1.34%
NW Dest 2020	0.64%	0.70%	1.34%
NW Dest 2025	0.64%	0.70%	1.34%
NW Dest 2030	0.65%	0.70%	1.35%
NW Dest 2035	0.65%	0.70%	1.35%
NW Dest 2040	0.64%	0.70%	1.34%
NW Dest 2045	0.64%	0.70%	1.34%
NW Dest 2050	0.64%	0.70%	1.34%
NW Dest 2055	0.64%	0.70%	1.34%
NW Dest 2060	0.64%	0.70%	1.34%
<i>Average Target Date Fund</i>			1.34%
NW Dest Aggr	0.92%	0.70%	1.62%
NW Dest Mod Agrsv	0.94%	0.70%	1.64%
NW Dest Mod	0.91%	0.70%	1.61%
NW Dest Mod Cnsrv	0.88%	0.70%	1.58%
NW Dest Cnsrv	0.87%	0.70%	1.57%
AF Income	0.56%	0.95%	1.51%
<i>Average Asset Allocation Fund</i>			1.59%
NW NVIT MM SC	1.17%	0.80%	1.97%
NW SC Index	0.68%	0.80%	1.48%
Brwn Cap Sm Co	1.29%	0.80%	2.09%
NB Genesis	1.09%	0.80%	1.89%
NW SC Gr	1.21%	0.80%	2.01%
NW US SC Val	1.26%	0.80%	2.06%
AF New World	0.98%	0.80%	1.78%
NW Intl Index	0.71%	0.80%	1.51%
MFS Intl Val	1.01%	0.80%	1.81%
Invesco Intl Gr	0.99%	0.80%	1.79%
Oppnhmr Gbl	1.15%	0.80%	1.95%

Appendix IV *Nationwide Fund Expenses*

Funds	Gross Expense Ratio	Variable Account Expense Fees	Total Expense Ratio
JPM MC Val	1.26%	0.80%	2.06%
NW MC Mrkt Indx	0.69%	0.80%	1.49%
WFA Disc Admn	1.13%	0.80%	1.93%
Drey SP 500 Idx	0.51%	0.95%	1.46%
NW Fund	0.78%	0.80%	1.58%
NW S&P 500 Index	0.42%	0.80%	1.22%
Fid Contra	0.68%	0.95%	1.63%
AF Growth	0.64%	0.95%	1.59%
NB Socially Rspns	0.86%	0.80%	1.66%
TRP Gr Stock Adv	0.93%	0.80%	1.73%
AC Value	0.98%	0.80%	1.78%
Invesco Gr & Inc	0.82%	0.80%	1.62%
NW LC Growth	0.95%	0.80%	1.75%
C&S Real Estate	1.19%	0.80%	1.99%
<i>Average Stock Fund</i>			1.75%
LA High Yld	0.68%	0.80%	1.48%
NW Bond Index	0.66%	0.80%	1.46%
NW HM Bd	0.70%	0.80%	1.50%
PIMCO Frgn Bond	0.95%	0.80%	1.75%
Fed US Govt 2-5 yr	0.87%	0.95%	1.82%
NW Money Market	0.68%	0.80%	1.48%
NW Fixed Account	0.00%	0.00%	0.00%
<i>Average Fixed Income Fund</i>			1.36%
Arithmetic Average Fund Expense--ALL FUNDS			1.65%

Appendix V *Nationwide Asset-Weighted Calculation*

457 Program Current Provider	Exp.	Plan Assets	% of Plan	1 Yr	3 Yr	5 Yr	Wtd Exp	Wtd 1 Yr	Wtd 3 Yr	Wtd 5 Yr	MERS	Exp.	1 Yr	3 Yr	5 Yr	Wtd Exp	Wtd 1 Yr	Wtd 3 Yr	Wtd 5 Yr
NW Dest 2015	1.34%	\$4,308	0.1%	5.84%	3.69%	4.48%	0.00%	0.00%	0.00%	0.00%	2015 Retirement Strategy	0.43%	6.72%	4.24%	4.93%	0.00%	0.00%	0.00%	0.00%
NW Dest 2020	1.34%	\$34,995	0.6%	6.94%	4.19%	5.18%	0.01%	0.04%	0.02%	0.03%	2020 Retirement Strategy	0.43%	7.97%	4.90%	5.65%	0.00%	0.04%	0.03%	0.03%
NW Dest 2025	1.34%	\$63,681	1.0%	7.88%	4.85%	6.07%	0.01%	0.08%	0.05%	0.06%	2025 Retirement Strategy	0.43%	9.07%	5.50%	6.43%	0.00%	0.09%	0.06%	0.07%
NW Dest 2030	1.35%	\$33	0.0%	8.77%	5.35%	6.85%	0.00%	0.00%	0.00%	0.00%	2030 Retirement Strategy	0.43%	10.11%	6.10%	7.18%	0.00%	0.00%	0.00%	0.00%
NW Dest 2035	1.35%	\$12,342	0.2%	9.38%	5.74%	7.40%	0.00%	0.02%	0.01%	0.01%	2035 Retirement Strategy	0.43%	11.21%	6.67%	7.85%	0.00%	0.02%	0.01%	0.02%
NW Dest 2040	1.34%	\$1,161	0.0%	10.10%	6.09%	7.83%	0.00%	0.00%	0.00%	0.00%	2040 Retirement Strategy	0.43%	12.42%	7.27%	8.46%	0.00%	0.00%	0.00%	0.00%
NW Dest 2045	1.34%	\$1,517	0.0%	10.63%	6.45%	8.24%	0.00%	0.00%	0.00%	0.00%	2045 Retirement Strategy	0.43%	13.07%	7.57%	8.64%	0.00%	0.00%	0.00%	0.00%
NW Dest 2050	1.34%	\$6,867	0.1%	10.94%	6.63%	8.36%	0.00%	0.01%	0.01%	0.01%	2050 Retirement Strategy	0.43%	13.06%	7.56%	8.62%	0.00%	0.01%	0.01%	0.01%
NW Dest Aggr	1.62%	\$206,043	3.3%	12.26%	6.73%	8.43%	0.05%	0.40%	0.22%	0.27%	MERS Gbl Stk Portfolio	0.68%	15.27%	9.42%	10.85%	0.02%	0.50%	0.31%	0.36%
NW Dest Mod Agrsv	1.64%	\$46,654	0.7%	10.71%	5.99%	7.35%	0.01%	0.08%	0.04%	0.05%	MERS Cap Appr Portfolio	0.56%	12.18%	8.43%	9.13%	0.00%	0.09%	0.06%	0.07%
NW Dest Mod	1.61%	\$388,099	6.2%	8.10%	4.70%	5.63%	0.10%	0.49%	0.28%	0.34%	MERS Total Mrkt Portfolio	0.58%	9.80%	6.74%	7.41%	0.04%	0.61%	0.42%	0.46%
NW Dest Mod Cnsrv	1.58%	\$2,258	0.0%	5.12%	3.31%	3.96%	0.00%	0.00%	0.00%	0.00%	MERS Bal Inc Portfolio	0.53%	6.78%	5.44%	5.54%	0.00%	0.00%	0.00%	0.00%
NW Dest Cnsrv	1.57%	\$40,932	0.7%	2.72%	1.94%	2.23%	0.01%	0.02%	0.01%	0.01%	MERS Cap Pres Portfolio	0.48%	4.00%	4.03%	3.96%	0.00%	0.03%	0.03%	0.03%
AF Income	1.51%	\$184,036	2.9%	6.22%	5.25%	6.78%	0.04%	0.18%	0.15%	0.20%	MERS Cap Appr Portfolio	0.56%	12.18%	8.43%	9.13%	0.02%	0.36%	0.25%	0.27%
NW NVIT MM SC	1.97%	\$3,485	0.1%	9.40%	8.50%	10.63%	0.00%	0.01%	0.00%	0.01%	Small Cap Stock Index	0.35%	12.80%	10.77%	13.21%	0.00%	0.01%	0.01%	0.01%
NW SC Index	1.48%	\$61,342	1.0%	10.22%	7.01%	10.09%	0.01%	0.10%	0.07%	0.10%	Small Cap Stock Index	0.35%	12.80%	10.77%	13.21%	0.00%	0.12%	0.11%	0.13%
Brwn Cap Sm Co	2.09%	\$217,494	3.5%	25.52%	14.97%	15.71%	0.07%	0.88%	0.51%	0.54%	Small Cap Stock Index	0.35%	12.80%	10.77%	13.21%	0.01%	0.44%	0.37%	0.46%
NB Genesis	1.89%	\$178,202	2.8%	12.01%	8.77%	10.12%	0.05%	0.34%	0.25%	0.28%	Small Cap Stock Index	0.35%	12.80%	10.77%	13.21%	0.01%	0.36%	0.31%	0.37%
NW SC Gr	2.01%	\$123	0.0%	25.69%	14.97%	15.04%	0.00%	0.00%	0.00%	0.00%	Small Cap Stock Index	0.35%	12.80%	10.77%	13.21%	0.00%	0.00%	0.00%	0.00%
NW US SC Val	2.06%	\$120,278	1.9%	4.52%	5.58%	8.66%	0.04%	0.08%	0.10%	0.16%	Small Cap Stock Index	0.35%	12.80%	10.77%	13.21%	0.01%	0.24%	0.21%	0.25%
AF New World	1.78%	\$146,914	2.3%	20.47%	7.60%	5.69%	0.04%	0.48%	0.18%	0.13%	Emerging Market Stock	1.21%	21.94%	11.04%	6.32%	0.03%	0.51%	0.26%	0.15%
NW Intl Index	1.51%	\$69,843	1.1%	13.62%	4.39%	5.17%	0.02%	0.15%	0.05%	0.06%	International Stock Index	0.39%	14.83%	5.34%	5.97%	0.00%	0.16%	0.06%	0.07%
MFS Intl Val	1.81%	\$343,892	5.5%	16.44%	8.45%	9.82%	0.10%	0.89%	0.46%	0.53%	International Stock Index	0.39%	14.83%	5.34%	5.97%	0.02%	0.81%	0.29%	0.33%
Invesco Intl Gr	1.79%	\$179,032	2.8%	12.05%	3.72%	5.55%	0.05%	0.34%	0.10%	0.16%	International Stock Index	0.39%	14.83%	5.34%	5.97%	0.01%	0.42%	0.15%	0.17%
Oppnhmr Gbl	1.95%	\$254,513	4.0%	22.25%	8.80%	10.45%	0.08%	0.90%	0.35%	0.42%	MERS Gbl Stk Portfolio	0.68%	15.27%	9.42%	10.85%	0.03%	0.62%	0.38%	0.44%
JPM MC Val	2.06%	\$123,674	2.0%	6.08%	5.08%	9.61%	0.04%	0.12%	0.10%	0.19%	Mid Cap Stock Index	0.35%	10.49%	8.73%	11.77%	0.01%	0.21%	0.17%	0.23%
NW MC Mrkt Indx	1.49%	\$97,560	1.6%	9.29%	7.37%	10.35%	0.02%	0.14%	0.11%	0.16%	Mid Cap Stock Index	0.35%	10.49%	8.73%	11.77%	0.01%	0.16%	0.14%	0.18%
WFA Disc Admn	1.93%	\$76,754	1.2%	20.31%	8.93%	11.53%	0.02%	0.25%	0.11%	0.14%	Mid Cap Stock Index	0.35%	10.49%	8.73%	11.77%	0.00%	0.13%	0.11%	0.14%
Drey SP 500 Idx	1.46%	\$107,640	1.7%	12.38%	9.19%	11.68%	0.03%	0.21%	0.16%	0.20%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.01%	0.23%	0.18%	0.22%
NW Fund	1.58%	\$149,275	2.4%	11.87%	8.87%	11.43%	0.04%	0.28%	0.21%	0.27%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.01%	0.32%	0.24%	0.30%
NW S&P 500 Index	1.22%	\$217,401	3.5%	12.61%	9.44%	11.94%	0.04%	0.43%	0.32%	0.41%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.01%	0.47%	0.36%	0.44%
Fid Contra	1.63%	\$1,068,353	17.0%	22.61%	11.88%	13.99%	0.28%	3.83%	2.00%	2.36%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.06%	2.30%	1.75%	2.18%

Appendix V *Nationwide Asset-Weighted Calculation*

457 Program Current Provider	Exp.	Plan Assets	% of Plan	1 Yr	3 Yr	5 Yr	Wtd Exp	Wtd 1 Yr	Wtd 3 Yr	Wtd 5 Yr	MERS	Exp.	1 Yr	3 Yr	5 Yr	Wtd Exp	Wtd 1 Yr	Wtd 3 Yr	Wtd 5 Yr
AF Growth	1.59%	\$179,398	2.9%	18.99%	11.74%	13.77%	0.05%	0.54%	0.33%	0.39%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.01%	0.39%	0.29%	0.37%
NB Socially Rspns	1.66%	\$172,086	2.7%	10.78%	7.85%	10.71%	0.05%	0.29%	0.21%	0.29%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.01%	0.37%	0.28%	0.35%
TRP Gr Stock Adv	1.73%	\$188,243	3.0%	23.54%	12.54%	15.79%	0.05%	0.70%	0.37%	0.47%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.01%	0.41%	0.31%	0.38%
AC Value	1.78%	\$222,111	3.5%	2.56%	5.99%	9.04%	0.06%	0.09%	0.21%	0.32%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.01%	0.48%	0.36%	0.45%
Invesco Gr & Inc	1.62%	\$414,264	6.6%	7.59%	8.19%	10.18%	0.11%	0.49%	0.53%	0.66%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.02%	0.89%	0.68%	0.85%
NW LC Growth	1.75%	\$208,387	3.3%	20.38%	9.48%	12.57%	0.06%	0.67%	0.31%	0.41%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.01%	0.45%	0.34%	0.43%
C&S Real Estate	1.99%	\$36,984	0.6%	-1.68%	2.50%	7.33%	0.01%	-0.01%	0.01%	0.04%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.00%	0.08%	0.06%	0.08%
LA High Yld	1.48%	\$111,958	1.8%	3.78%	3.81%	5.14%	0.03%	0.07%	0.07%	0.09%	High Yield Bond	0.85%	2.83%	4.08%	4.17%	0.02%	0.05%	0.07%	0.07%
NW Bond Index	1.46%	\$63,444	1.0%	-0.30%	-0.32%	0.35%	0.01%	0.00%	0.00%	0.00%	Bond Index	0.45%	0.67%	0.58%	1.25%	0.00%	0.01%	0.01%	0.01%
NW HM Bd	1.50%	\$251,716	4.0%	-0.01%	0.36%	0.90%	0.06%	0.00%	0.01%	0.03%	MERS Div Bond Portfolio	0.50%	1.38%	1.82%	1.60%	0.02%	0.06%	0.07%	0.06%
PIMCO Frgn Bond	1.75%	\$22,577	0.4%	3.04%	1.97%	3.24%	0.01%	0.01%	0.01%	0.01%	MERS Div Bond Portfolio	0.50%	1.38%	1.82%	1.60%	0.00%	0.00%	0.01%	0.01%
Fed US Govt 2-5 yr	1.82%	\$2,564	0.0%	-1.79%	-1.14%	-1.03%	0.00%	0.00%	0.00%	0.00%	Short-Term Income	0.35%	0.13%	0.30%	0.25%	0.00%	0.00%	0.00%	0.00%
NW Money Market	1.48%	\$2,904	0.0%	-0.26%	-0.62%	-0.69%	0.00%	0.00%	0.00%	0.00%	Short-Term Income	0.35%	0.13%	0.30%	0.25%	0.00%	0.00%	0.00%	0.00%
Plan Totals		\$6,285,337	100.0%				1.67%	13.59%	7.95%	9.83%	MERS Totals					0.44%	12.48%	8.74%	10.45%
											Difference in Weighted Averages					-1.23%	-1.11%	0.79%	0.62%
<i>Fixed Assets (not defined)</i>		\$174,479																	
<i>Fixed Account</i>		\$1,335,110																	
Plan Totals (with Fixed Account)		\$7,794,926																	

Appendix VI *John's Retirement Account Growth Illustration*

Current Salary		\$40,000		Assumptions		John Hancock (DC)	Nationwide (457)	MERS (DC)	MERS (457)
Salary Growth Rate		2%		Market Return		7.00%	7.00%	7.00%	7.00%
DC Contribution Rate		15%		Investment Expense		1.27%	1.67%	0.49%	0.44%
457 Contribution Rate		5%		Net Investment Return		5.73%	5.33%	6.51%	6.56%

Age	Salary	DC Contr.	457 Contr.	John Hancock (DC)			Nationwide (457)			MERS (DC)			MERS (457)		
				Start	Growth	End	Start	Growth	End	Start	Growth	End	Start	Growth	End
25	\$40,000	\$6,000	\$2,000	\$10,000	\$4,757	\$16,757	\$5,000	\$326	\$7,326	\$10,000	\$4,863	\$16,863	\$5,000	\$403	\$7,403
26	\$40,800	\$6,120	\$2,040	\$16,757	\$5,239	\$24,036	\$7,326	\$454	\$9,819	\$16,863	\$5,408	\$24,312	\$7,403	\$567	\$10,010
27	\$41,616	\$6,242	\$2,081	\$24,036	\$5,753	\$31,869	\$9,819	\$591	\$12,491	\$24,312	\$5,994	\$32,387	\$10,010	\$745	\$12,835
28	\$42,448	\$6,367	\$2,122	\$31,869	\$6,301	\$40,292	\$12,491	\$738	\$15,352	\$32,387	\$6,624	\$41,133	\$12,835	\$937	\$15,895
29	\$43,297	\$6,495	\$2,165	\$40,292	\$6,885	\$49,343	\$15,352	\$896	\$18,413	\$41,133	\$7,300	\$50,598	\$15,895	\$1,146	\$19,206
30	\$44,163	\$6,624	\$2,208	\$49,343	\$7,509	\$59,059	\$18,413	\$1,065	\$21,686	\$50,598	\$8,027	\$60,833	\$19,206	\$1,372	\$22,786
31	\$45,046	\$6,757	\$2,252	\$59,059	\$8,173	\$69,485	\$21,686	\$1,245	\$25,183	\$60,833	\$8,807	\$71,893	\$22,786	\$1,615	\$26,653
32	\$45,947	\$6,892	\$2,297	\$69,485	\$8,881	\$80,663	\$25,183	\$1,437	\$28,917	\$71,893	\$9,645	\$83,835	\$26,653	\$1,879	\$30,829
33	\$46,866	\$7,030	\$2,343	\$80,663	\$9,635	\$92,642	\$28,917	\$1,642	\$32,903	\$83,835	\$10,543	\$96,721	\$30,829	\$2,163	\$35,336
34	\$47,804	\$7,171	\$2,390	\$92,642	\$10,439	\$105,471	\$32,903	\$1,862	\$37,155	\$96,721	\$11,507	\$110,618	\$35,336	\$2,470	\$40,195
35	\$48,760	\$7,314	\$2,438	\$105,471	\$11,294	\$119,203	\$37,155	\$2,095	\$41,688	\$110,618	\$12,541	\$125,597	\$40,195	\$2,800	\$45,434
36	\$49,735	\$7,460	\$2,487	\$119,203	\$12,205	\$133,894	\$41,688	\$2,345	\$46,520	\$125,597	\$13,649	\$141,733	\$45,434	\$3,156	\$51,077
37	\$50,730	\$7,609	\$2,536	\$133,894	\$13,174	\$149,604	\$46,520	\$2,610	\$51,666	\$141,733	\$14,837	\$159,107	\$51,077	\$3,540	\$57,153
38	\$51,744	\$7,762	\$2,587	\$149,604	\$14,205	\$166,396	\$51,666	\$2,893	\$57,146	\$159,107	\$16,111	\$177,805	\$57,153	\$3,953	\$63,694
39	\$52,779	\$7,917	\$2,639	\$166,396	\$15,302	\$184,337	\$57,146	\$3,194	\$62,979	\$177,805	\$17,475	\$197,919	\$63,694	\$4,398	\$70,730
40	\$53,835	\$8,075	\$2,692	\$184,337	\$16,469	\$203,497	\$62,979	\$3,514	\$69,185	\$197,919	\$18,937	\$219,549	\$70,730	\$4,876	\$78,298
41	\$54,911	\$8,237	\$2,746	\$203,497	\$17,709	\$223,952	\$69,185	\$3,855	\$75,786	\$219,549	\$20,503	\$242,797	\$78,298	\$5,390	\$86,434
42	\$56,010	\$8,401	\$2,800	\$223,952	\$19,029	\$245,782	\$75,786	\$4,218	\$82,804	\$242,797	\$22,180	\$267,778	\$86,434	\$5,943	\$95,177
43	\$57,130	\$8,569	\$2,856	\$245,782	\$20,431	\$269,070	\$82,804	\$4,603	\$90,263	\$267,778	\$23,976	\$294,610	\$95,177	\$6,536	\$104,570
44	\$58,272	\$8,741	\$2,914	\$269,070	\$21,922	\$293,906	\$90,263	\$5,012	\$98,189	\$294,610	\$25,898	\$323,422	\$104,570	\$7,174	\$114,658
45	\$59,438	\$8,916	\$2,972	\$293,906	\$23,507	\$320,384	\$98,189	\$5,447	\$106,609	\$323,422	\$27,956	\$354,349	\$114,658	\$7,859	\$125,489
46	\$60,627	\$9,094	\$3,031	\$320,384	\$25,190	\$348,606	\$106,609	\$5,909	\$115,549	\$354,349	\$30,158	\$387,538	\$125,489	\$8,595	\$137,115
47	\$61,839	\$9,276	\$3,092	\$348,606	\$26,979	\$378,677	\$115,549	\$6,400	\$125,041	\$387,538	\$32,515	\$423,145	\$137,115	\$9,384	\$149,590
48	\$63,076	\$9,461	\$3,154	\$378,677	\$28,880	\$410,711	\$125,041	\$6,920	\$135,115	\$423,145	\$35,036	\$461,335	\$149,590	\$10,230	\$162,975
49	\$64,337	\$9,651	\$3,217	\$410,711	\$30,898	\$444,825	\$135,115	\$7,473	\$145,805	\$461,335	\$37,734	\$502,286	\$162,975	\$11,139	\$177,330
50	\$65,624	\$9,844	\$3,281	\$444,825	\$33,042	\$481,148	\$145,805	\$8,059	\$157,145	\$502,286	\$40,620	\$546,187	\$177,330	\$12,113	\$192,724
51	\$66,937	\$10,041	\$3,347	\$481,148	\$35,318	\$519,813	\$157,145	\$8,681	\$169,174	\$546,187	\$43,707	\$593,240	\$192,724	\$13,157	\$209,229
52	\$68,275	\$10,241	\$3,414	\$519,813	\$37,735	\$560,962	\$169,174	\$9,341	\$181,928	\$593,240	\$47,008	\$643,662	\$209,229	\$14,277	\$226,919
53	\$69,641	\$10,446	\$3,482	\$560,962	\$40,301	\$604,746	\$181,928	\$10,040	\$195,450	\$643,662	\$50,538	\$697,682	\$226,919	\$15,477	\$245,878
54	\$71,034	\$10,655	\$3,552	\$604,746	\$43,026	\$651,323	\$195,450	\$10,781	\$209,783	\$697,682	\$54,313	\$755,547	\$245,878	\$16,763	\$266,193
55	\$72,454	\$10,868	\$3,623	\$651,323	\$45,917	\$700,863	\$209,783	\$11,567	\$224,973	\$755,547	\$58,349	\$817,519	\$266,193	\$18,141	\$287,957
56	\$73,904	\$11,086	\$3,695	\$700,863	\$48,987	\$753,545	\$224,973	\$12,400	\$241,068	\$817,519	\$62,664	\$883,878	\$287,957	\$19,617	\$311,269
57	\$75,382	\$11,307	\$3,769	\$753,545	\$52,244	\$809,558	\$241,068	\$13,282	\$258,119	\$883,878	\$67,277	\$954,925	\$311,269	\$21,198	\$336,236
58	\$76,889	\$11,533	\$3,844	\$809,558	\$55,701	\$869,103	\$258,119	\$14,216	\$276,180	\$954,925	\$72,208	\$1,030,977	\$336,236	\$22,891	\$362,971
59	\$78,427	\$11,764	\$3,921	\$869,103	\$59,369	\$932,393	\$276,180	\$15,206	\$295,307	\$1,030,977	\$77,478	\$1,112,377	\$362,971	\$24,703	\$391,596

Appendix VII *John's Retirement Payment Calculation*

John's Disbursement Illustration				
Assumptions	John Hancock (DC)	Nationwide (457)	MERS (DC)	MERS (457)
Balance at Retirement (PV)	\$932,393	\$295,307	\$1,112,377	\$391,596
Balance after Retirement (FV)	\$0	\$0	\$0	\$0
<i>Equal Monthly Payments (PMT)</i>	<i>\$4,462</i>	<i>\$1,349</i>	<i>\$5,813</i>	<i>\$2,058</i>
Years of Reimbursements	28	28	28	28
Total Monthly Payments (N)	336	336	336	336
Market Return	5.00%	5.00%	5.00%	5.00%
Average Fee	1.27%	1.67%	0.49%	0.44%
<i>Net Investment Return (Rate)</i>	<i>3.73%</i>	<i>3.33%</i>	<i>4.51%</i>	<i>4.56%</i>
Annual Payments	\$53,543	\$16,185	\$69,759	\$24,694
Total of All Payments	\$1,499,204	\$453,193	\$1,953,260	\$691,421

Calculation uses the Time Value of Money (TVM), where PV=Payment; FV=Future Value; PMT=Payment; N=Number of Periods; ip=Interest Rate per period, and k=1 if payment made at the end of period, or 1+ip if made at the beginning:

$$PMT = \left(PV + \frac{PV + FV}{(1 + ip)^N - 1} \right) \times \frac{-ip}{k}$$

Appendix VIII *ICMA-RC Fund Expenses*

Funds	Net Expense Ratio
VT VP MS Ret Inc	1.06%
VT VP MS 2010	1.08%
VT VP MS 2015	1.08%
VT VP MS 2020	1.09%
VT VP MS 2025	1.10%
VT VP MS 2030	1.13%
VT VP MS 2035	1.15%
VT VP MS 2040	1.16%
VT VP MS 2045	1.17%
VT VP MS 2050	1.18%
VT VP MS 2055	1.26%
<i>Average Target Date Fund</i>	<i>1.13%</i>
VT VP MP Gbl Eq Gr	1.20%
VT VP MP Lg-Trm Gr	1.11%
VT VP MP TradGr	1.10%
VT VP MP Cnsvr Gr	1.08%
<i>Average Asset Allocation Fund</i>	<i>1.12%</i>

Funds	Net Expense Ratio
VT VP Eqty Inc	1.02%
VT VP 500 Stk Idx	0.70%
VT VP Brd Mrk Idx	0.70%
VT VP Grwth & Inc	1.00%
VT VP Growth	1.07%
VT VP Select Val	1.27%
VT VP AggrOpp	1.06%
VT VP Md/Sm Idx	0.70%
VT VP Discovery	1.02%
VT VP Intrntnl	1.26%
VT VP Emrg Mkts	0.80%
<i>Average Stock Fund</i>	<i>0.96%</i>
VT Cash Mng	0.75%
VT VP Low Dur Bd	0.92%
VT VP Core Bd Idx	0.70%
VT VP Infl Foc	0.92%
VT VP High Yld	1.24%
<i>Average Fixed Income Fund</i>	<i>0.91%</i>
Arithmetic Average Fund Expense— ALL FUNDS	0.95%

Appendix IX *ICMA-RC Asset-Weighted Calculation*

HCSP Program Current Provider	Exp.	Plan Assets	% of Plan	1 Yr	3 Yr	5 Yr	Wtd Exp	Wtd 1 Yr	Wtd 3 Yr	Wtd 5 Yr	MERS	Exp.	1 Yr	3 Yr	5 Yr	Wtd Exp	Wtd 1 Yr	Wtd 3 Yr	Wtd 5 Yr
VT VP MS 2015	1.08%	\$8,050	4.4%	6.11%	3.73%	4.98%	0.05%	0.26%	0.16%	0.21%	2015 Retirement Strategy	0.43%	6.72%	4.24%	4.93%	0.02%	0.30%	0.19%	0.22%
VT VP MS 2020	1.09%	\$20,500	11.2%	7.31%	4.23%	5.81%	0.12%	0.81%	0.46%	0.64%	2020 Retirement Strategy	0.43%	7.97%	4.90%	5.65%	0.05%	0.89%	0.55%	0.63%
VT VP MS 2025	1.10%	\$27,402	15.0%	8.34%	4.80%	6.60%	0.16%	1.23%	0.70%	0.97%	2025 Retirement Strategy	0.43%	9.07%	5.50%	6.43%	0.06%	1.36%	0.82%	0.96%
VT VP MS 2030	1.13%	\$2,146	1.2%	9.43%	5.37%	7.32%	0.01%	0.11%	0.06%	0.08%	2030 Retirement Strategy	0.43%	10.11%	6.10%	7.18%	0.01%	0.12%	0.07%	0.08%
VT VP MS 2035	1.15%	\$15,860	8.7%	10.58%	5.89%	8.01%	0.10%	0.91%	0.50%	0.69%	2035 Retirement Strategy	0.43%	11.21%	6.67%	7.85%	0.04%	0.97%	0.58%	0.68%
VT VP MS 2040	1.16%	\$5,618	3.1%	11.88%	6.50%	8.64%	0.04%	0.36%	0.20%	0.26%	2040 Retirement Strategy	0.43%	12.42%	7.27%	8.46%	0.01%	0.38%	0.22%	0.26%
VT VP MS 2045	1.17%	\$15,410	8.4%	12.64%	6.88%	8.94%	0.10%	1.06%	0.57%	0.74%	2045 Retirement Strategy	0.43%	13.07%	7.57%	8.64%	0.04%	1.10%	0.64%	0.73%
VT VP MS 2050	1.18%	\$69,244	37.9%	12.93%	6.94%	8.88%	0.45%	4.86%	2.59%	3.32%	2050 Retirement Strategy	0.43%	13.06%	7.56%	8.62%	0.16%	4.94%	2.86%	3.26%
VT VP MS 2055	1.26%	\$7,779	4.3%	12.82%	6.94%	8.88%	0.05%	0.54%	0.29%	0.37%	2055 Retirement Strategy	0.43%	13.07%	7.59%	8.64%	0.02%	0.56%	0.32%	0.37%
VT VP 500 Stk Idx	0.70%	\$8,373	4.6%	13.23%	9.99%	12.50%	0.03%	0.60%	0.45%	0.57%	Large Cap Stock Index	0.35%	13.55%	10.30%	12.84%	0.02%	0.62%	0.47%	0.59%
VT VP AggrOpp	1.06%	\$2,528	1.4%	16.17%	7.92%	11.14%	0.01%	0.22%	0.11%	0.15%	Mid Cap Stock Index	0.35%	10.49%	8.73%	11.77%	0.00%	0.14%	0.12%	0.16%
VT Cash Mng	0.75%	\$12	0.0%	0.37%	0.12%	0.07%	0.00%	0.00%	0.00%	0.00%	Short-Term Income	0.35%	0.13%	0.30%	0.25%	0.00%	0.00%	0.00%	0.00%
Plan Totals		\$182,923	100.0%				1.13%	10.96%	6.10%	8.02%	MERS Totals					0.43%	11.39%	6.85%	7.95%
											Difference in Weighted Averages					-0.70%	0.43%	0.75%	-0.07%

Appendix X *John's HCSP Account Growth Illustration*

Current Salary		N/A	Assumptions		ICMA-RC	MERS
Salary Growth Rate		N/A	Market Return		7.00%	7.00%
Contributions (bi-weekly)		\$75	Investment Expense		1.13%	0.43%
			Net Investment Return		5.87%	6.57%

Age	Contributions	ICMA-RC				MERS			
		Start	Growth	Fee	End	Start	Growth	Fee	End
25	\$1,950	\$0	\$29	-\$25	\$1,954	\$0	\$56	-\$24	\$1,982
26	\$1,950	\$1,954	\$145	-\$25	\$4,024	\$1,982	\$188	-\$24	\$4,096
27	\$1,950	\$4,024	\$268	-\$25	\$6,217	\$4,096	\$330	-\$24	\$6,352
28	\$1,950	\$6,217	\$399	-\$25	\$8,541	\$6,352	\$480	-\$24	\$8,758
29	\$1,950	\$8,541	\$537	-\$25	\$11,003	\$8,758	\$641	-\$24	\$11,325
30	\$1,950	\$11,003	\$684	-\$25	\$13,612	\$11,325	\$812	-\$24	\$14,063
31	\$1,950	\$13,612	\$839	-\$25	\$16,376	\$14,063	\$995	-\$24	\$16,985
32	\$1,950	\$16,376	\$1,004	-\$25	\$19,305	\$16,985	\$1,190	-\$24	\$20,101
33	\$1,950	\$19,305	\$1,178	-\$25	\$22,409	\$20,101	\$1,398	-\$24	\$23,425
34	\$1,950	\$22,409	\$1,363	-\$25	\$25,697	\$23,425	\$1,620	-\$24	\$26,972
35	\$1,950	\$25,697	\$1,559	-\$25	\$29,181	\$26,972	\$1,857	-\$24	\$30,755
36	\$1,950	\$29,181	\$1,767	-\$25	\$32,873	\$30,755	\$2,110	-\$24	\$34,790
37	\$1,950	\$32,873	\$1,987	-\$25	\$36,785	\$34,790	\$2,379	-\$24	\$39,096
38	\$1,950	\$36,785	\$2,220	-\$25	\$40,929	\$39,096	\$2,667	-\$24	\$43,689
39	\$1,950	\$40,929	\$2,466	-\$25	\$45,321	\$43,689	\$2,974	-\$24	\$48,588
40	\$1,950	\$45,321	\$2,728	-\$25	\$49,974	\$48,588	\$3,301	-\$24	\$53,815
41	\$1,950	\$49,974	\$3,005	-\$25	\$54,904	\$53,815	\$3,650	-\$24	\$59,391
42	\$1,950	\$54,904	\$3,299	-\$25	\$60,128	\$59,391	\$4,022	-\$24	\$65,339
43	\$1,950	\$60,128	\$3,610	-\$25	\$65,662	\$65,339	\$4,419	-\$24	\$71,684
44	\$1,950	\$65,662	\$3,940	-\$25	\$71,527	\$71,684	\$4,843	-\$24	\$78,453
45	\$1,950	\$71,527	\$4,289	-\$25	\$77,741	\$78,453	\$5,295	-\$24	\$85,674
46	\$1,950	\$77,741	\$4,659	-\$25	\$84,325	\$85,674	\$5,777	-\$24	\$93,377
47	\$1,950	\$84,325	\$5,051	-\$25	\$91,301	\$93,377	\$6,292	-\$24	\$101,595
48	\$1,950	\$91,301	\$5,467	-\$25	\$98,693	\$101,595	\$6,840	-\$24	\$110,361
49	\$1,950	\$98,693	\$5,907	-\$25	\$106,525	\$110,361	\$7,426	-\$24	\$119,713
50	\$1,950	\$106,525	\$6,373	-\$25	\$114,823	\$119,713	\$8,050	-\$24	\$129,690
51	\$1,950	\$114,823	\$6,868	-\$25	\$123,616	\$129,690	\$8,717	-\$24	\$140,332
52	\$1,950	\$123,616	\$7,391	-\$25	\$132,932	\$140,332	\$9,427	-\$24	\$151,685
53	\$1,950	\$132,932	\$7,946	-\$25	\$142,803	\$151,685	\$10,185	-\$24	\$163,797
54	\$1,950	\$142,803	\$8,534	-\$25	\$153,262	\$163,797	\$10,994	-\$24	\$176,717
55	\$1,950	\$153,262	\$9,157	-\$25	\$164,344	\$176,717	\$11,857	-\$24	\$190,500
56	\$1,950	\$164,344	\$9,817	-\$25	\$176,087	\$190,500	\$12,777	-\$24	\$205,204
57	\$1,950	\$176,087	\$10,517	-\$25	\$188,528	\$205,204	\$13,759	-\$24	\$220,889
58	\$1,950	\$188,528	\$11,258	-\$25	\$201,711	\$220,889	\$14,807	-\$24	\$237,622
59	\$1,950	\$201,711	\$12,043	-\$25	\$215,679	\$237,622	\$15,924	-\$24	\$255,472

Appendix XI *John's HCSP Reimbursement Calculation*

John's Reimbursement Illustration		
Assumptions	ICMA-RC	MERS
Balance at Retirement (PV)	\$215,679	\$255,472
Balance after Retirement (FV)	\$0	\$0
<i>Equal Monthly Reimbursements (PMT)</i>	<i>\$3,947</i>	<i>\$4,753</i>
Years of Reimbursements	5	5
Total Monthly Reimbursements (N)	60	60
Market Return	5.00%	5.00%
Average Fee	1.13%	0.43%
<i>Net Investment Return (Rate)</i>	<i>3.87%</i>	<i>4.57%</i>
Annual Reimbursements	\$47,360	\$57,034
Total of All Reimbursements	\$236,801	\$285,168

Calculation uses the Time Value of Money (TVM), where PV=Reimbursement; FV=Future Value; PMT=Payment; N=Number of Periods; ip=Interest Rate per period, and k=1 if payment made at the end of period, or 1+ip if made at the beginning:

$$PMT = \left(PV + \frac{PV + FV}{(1 + ip)^N - 1} \right) \times \frac{-ip}{k}$$

MERS data is current as of 3/31/2018. Plymouth Township provided its ICMA-RC plan details (disclosed on page 30).



This publication contains a summary description of MERS benefits, policies or procedures. MERS has made every effort to ensure that the information provided is accurate and up to date as of the date of publication. Where the publication conflicts with the relevant Plan Document, the Plan Document controls. MERS, as a governmental plan, is exempted by federal and state law from registration with the SEC. However, it employs registered investment advisors to manage the trust fund in compliance with Michigan Public Employee Retirement System Investment Act. Past performance is not a guarantee of future returns. Please make independent investment decisions carefully and seek the assistance of independent experts when appropriate.

Municipal Employees' Retirement System of Michigan

1134 Municipal Way • Lansing, MI 48917

800.767.6377 (MERS) • www.mersofmich.com

**CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019**

NEW BUSINESS

**ITEM F.5
AT&T METRO ACT PERMIT RENEWAL
RESOLUTION # 2019-08-27-77**



CHARTER TOWNSHIP OF PLYMOUTH REQUEST FOR BOARD ACTION

MEETING DATE: August 27, 2019

ITEM: Michigan Bell Telephone Company d/b/a AT&T METRO Act Permit Application, Resolution #2019-08-27-77

PRESENTER: Kevin L. Bennett, Township Attorney

BACKGROUND:

The Township originally granted Michigan Bell Telephone Company a Metropolitan Extension Telecommunications Right-of-Way Oversight Act (METRO Act) permit application on August 17, 2004. The Permit had a term of five years, and the Township renewed the Permit in 2009 and 2014. AT&T has requested the Township to renew the Permit for another five years. AT&T has stated that it will submit a current certificate of insurance that complies with the Township Telecommunications Ordinance.

ACTION REQUESTED: Approve renewal of the AT&T METRO Act Permit subject to final approval of the Township of Attorney of the certificate of insurance.

BUDGET/ACCOUNT NUMBER: N/A

RECOMMENDATION: Approve, subject to final approval of the Township of Attorney of the certificate of insurance.

PROPOSED MOTION: I move to adopt **Resolution #2019-08-27-77** to approve the METRO Act Permit Application renewal request submitted by Michigan Bell Telephone Company d/b/a AT&T, subject to final approval of the Township of Attorney of the certificate of insurance.

ATTACHMENTS: Original METRO Act Permit

Moved by: _____ Seconded by: _____

ROLL CALL:

___Doroshewitz, ___Heise, ___Heitman, ___Vorva, ___Clinton, ___Curmi, ___Dempsey

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

**A RESOLUTION AUTHORIZING THE RENEWAL OF THE AT&T METRO ACT
APPLICATION**

RESOLUTION #2019-08-27-77

At a regular meeting of the Board of Trustees for the Charter Township of Plymouth (the "Board"), held at Township Hall located at 9955 N. Haggerty Road, Plymouth, Michigan on August 27, 2019, the following resolution was offered:

WHEREAS, on August 17, 2004, the Township granted AT&T's Application for a METRO Act Right-of-Way Telecommunications Permit; and,

WHEREAS, the Permit had a term of five years; and,

WHEREAS, the Township renewed the AT&T Permit in 2009, and again in 2014; and,

WHEREAS, AT&T has requested renewal of the Permit in 2019; and,

WHEREAS, AT&T has stated that it will submit a current Certificate of Insurance that complies with the Township Ordinance;

NOW, THEREFORE, BE IT RESOLVED that the Charter Township of Plymouth Board of Trustees does hereby approve **Resolution #2019-08-27-77** authorizing AT&T's request for renewal of its METRO Act Right-of-Way Telecommunications Permit, subject to approval by the Township Attorney of AT&T's Certificate of Insurance.

Moved by: _____ Seconded by: _____

ROLL CALL:

___Doroshewitz, ___Heise, ___Heitman, ___Vorva, ___Clinton, ___Curmi, ___Dempsey

**METRO Act
Unilateral Form
Revised 12/06/02**

**RIGHT-OF-WAY
TELECOMMUNICATIONS PERMIT**

This permit issued this 17th day of August, 2004 by the Plymouth Township.

1 Definitions

- 1.1 Date of Issuance shall mean the date set forth above.
- 1.2 Manager shall mean Municipality's [Mayor/Manager/Supervisor/Village President] or his or her designee.
- 1.3 METRO Act shall mean the Metropolitan Extension Telecommunications Right-of Way oversight Act, Act No. 48 of the Public Acts of 2002, as amended.
- 1.4 Municipality shall mean Plymouth Township, a Michigan municipal corporation.
- 1.5 Permit shall mean this document.
- 1.6 Permittee shall mean **Michigan Bell Telephone Company D.B.A SBC Michigan** organized under the laws of the State of Michigan whose address is **54 N. Mill St., Box 32, Pontiac, Mi. 48342.**
- 1.7 Public Right-of-Way shall mean the area on, below, or above a public roadway, highway, street, alley, easement, or waterway, to the extent Municipality has the ability to grant the rights set forth herein. Public Right-of-Way does not include a federal, state, or private right-of-way.
- 1.8 Telecommunications Facilities or Facilities shall mean the Permittee's equipment or personal property, such as copper and fiber cables, lines, wires, switches, conduits, pipes, and sheaths, which are used to or can generate, receive, transmit, carry, amplify or provide telecommunication services or signals. Telecommunication Facilities or Facilities do not include antennas, supporting structures for antennas, equipment shelters or houses, and any ancillary equipment and miscellaneous hardware used to provide federally licensed commercial mobile service as defined in Section 332(d) of Part I of Title III of the Communications Act of 1934, Chapter 652, 48 Stat. 1064, 47 U.S.C. 332 and further defined as commercial mobile radio service in 47 CFR 20.3, and service provided by any wireless, two-way communications device.
- 1.9 Term shall have the meaning set forth in Part 7.

2 Grant

- 2.1 Municipality hereby issues a permit under the METRO Act to Permittee for access to and ongoing use of the Public Right-of-Way identified on Exhibit A to construct, install and maintain Telecommunication Facilities on the terms set forth herein.
 - 2.1.1 Exhibit A may be modified by Manager upon written request by Permittee.
 - 2.1.2 Any decision of Manager on a request by Permittee for a modification may be appealed by Permittee to Municipality's legislative body.
- 2.2 Overlashing. Permittee shall not allow the wires or any other facilities of a third party to be overlashed to the Telecommunication Facilities without Municipality's prior written consent. Municipality's right to withhold written consent is subject to the authority of the Michigan Public Service Commission under Section 361 of the Michigan Telecommunications Act, MCL § 484.2361.
- 2.3 Nonexclusive. The rights granted by this Permit are nonexclusive. Municipality reserves the right to approve, at any time, additional permits for access to and ongoing usage of the Public Right-of-Way by telecommunications providers and to enter into agreements for use of the Public Right-of-Way with and grant franchises for use of the Public Right-of-Way to telecommunications providers, cable companies, utilities and other providers.

3 Contacts, Maps and Plans

- 3.1 Permittee Contacts. The names, addresses and the like for engineering and construction related information for Permittee and its Telecommunication Facilities are as follows:
 - 3.1.1 *The address, e-mail address, phone number and contact person (title or name) at Permittee's local office (in or near Municipality) is **Beverly Preston, Area Manager, 550 S. Maple, Ann Arbor, Mi. 48103 Office: 734-996-5320, Fax: 734-996-5359.**
 - 3.1.2 If Permittee's engineering drawings, as-built plans and related records for the Telecommunication Facilities will not be located at the preceding local office, the location address, phone number and contact person (title or department) for them is Same as 3.1.1.
 - 3.1.3 The name, title, address, e-mail address and telephone numbers of

Permittee's engineering contact person(s) with responsibility for the design, plans and construction of the Telecommunication Facilities is: **Celeste Weidig, Area Engineer, 550 S. Maple, Ann Arbor, Mi. 48103 Office: 734-996-5350, Fax: 734-996-5359.**

- 3.1.4 The address, phone number and contact person (title or department) at Permittee's home office/regional office with responsibility for engineering and construction related aspects of the Telecommunication Facilities is Same as 3.1.3.
- 3.1.5 Permittee shall at all times provide Manager with the phone number at which a live representative of Permittee (not voice mail) can be reached 24 hours a day, seven (7) days a week, in the event of a public emergency.
- 3.1.6 Permittee shall immediately notify Municipality in writing as set forth in Part 12 of any inaccuracies or changes in the preceding information.
- 3.2 Route Maps. Within ninety (90) days after the substantial completion of new Facilities in a Municipality, a provider shall submit route maps showing the location of the Telecommunication Facilities to both the Michigan Public Service Commission and to the Municipality, as required under Section 6(7) of the METRO Act, MCLA 484.3106(7).
- 3.3 As-Built Records. Permittee, without expense to Municipality, shall, upon forty-eight (48) hours notice, give Municipality access to all "as-built" maps, records, plans and specifications showing the Telecommunication Facilities or portions thereof in the Public Right-of-Way. Upon request by Municipality, Permittee shall inform Municipality as soon as reasonably possible of any changes from previously supplied maps, records, or plans and shall mark up maps provided by Municipality so as to show the location of the Telecommunication Facilities.

4 Use of Public Right-of-Way

- 4.1 No Burden on Public Right-of-Way. Permittee, its contractors, subcontractors, and the Telecommunication Facilities shall not unduly burden or interfere with the present or future use of any of the Public Right-of-Way. Permittee's aerial cables and wires shall be suspended so as to not endanger or injure persons or property in or about the Public Right-of-Way. If Municipality reasonably determines that any portion of the Telecommunication Facilities constitutes an undue burden or interference, due to changed circumstances, Permittee, at its sole expense, shall modify the Telecommunication Facilities or take such other actions as Municipality may determine is in the public interest to remove or alleviate the burden, and Permittee shall do so within a reasonable time period. Municipality will attempt to require all occupants of a pole or conduit whose facilities are a burden to remove or alleviate the burden concurrently.

- 4.2 No Priority. This Permit does not establish any priority of use of the Public Right-of-Way by Permittee over any present or future permittees or parties having agreements with Municipality or franchises for such use. In the event of any dispute as to the priority of use of the Public Right-of-Way, the first priority shall be to the public generally, the second priority to Municipality, the third priority to the State of Michigan and its political subdivisions in the performance of their various functions, and thereafter as between other permit, agreement or franchise holders, as determined by Municipality in the exercise of its powers, including the police power and other powers reserved to and conferred on it by the State of Michigan.
- 4.3 Restoration of Property. Permittee, its contractors and subcontractors shall immediately (**subject to seasonal work restrictions**) restore, at Permittee's sole expense, in a manner approved by Municipality, any portion of the Public Right-of-Way that is in any way disturbed, damaged, or injured by the construction, installation, operation, maintenance or removal of the Telecommunication Facilities to a reasonably equivalent (or, at Permittee's option, better) condition as that which existed prior to the disturbance. In the event that Permittee, its contractors or subcontractors fail to make such repair within a reasonable time, Municipality may make the repair and Permittee shall pay the costs Municipality incurred for such repair.
- 4.4 Marking. Permittee shall mark the Telecommunication Facilities as follows: Aerial portions of the Telecommunication Facilities shall be marked with a marker on Permittee's lines on alternate poles which shall state Permittee's name and provide a toll-free number to call for assistance. Direct buried underground portions of the Telecommunication Facilities shall have (1) a conducting wire placed in the ground at least several inches above Permittee's cable (**if such cable is nonconductive**); (2) at least several inches above that, a continuous colored tape with a statement to the effect that there is buried cable beneath; and (3) stakes or other appropriate above ground markers with Permittee's name and a toll-free number indicating that there is buried telephone cable below. Bored underground portions of the Telecommunication Facilities shall have a conducting wire at the same depth as the cable and shall not be required to provide the continuous colored tape. Portions of the Telecommunication Facilities located in conduit, including conduit of others used by Permittee, shall be marked at its entrance into and exit from each manhole and handhole with Permittee's name and a toll-free telephone number.
- 4.5 Tree Trimming. Permittee may trim trees upon and overhanging the Public Right-of-Way so as to prevent the branches of such trees from coming into contact with the Telecommunication Facilities, consistent with any standards adopted by Municipality. Permittee shall dispose of all trimmed materials. Permittee shall minimize the trimming of trees to that essential to maintain the

integrity of the Telecommunication Facilities. Except in emergencies, all trimming of trees in the Public Right-of-Way shall have the advance approval of Manager.

- 4.6 Installation and Maintenance. The construction and installation of the Telecommunication Facilities shall be performed pursuant to plans approved by Municipality. The open cut of any Public Right-of-Way shall be coordinated with the Manager or his designee. Permittee shall install and maintain the Telecommunication Facilities in a reasonably safe condition. If the existing poles in the Public Right-of-Way are overburdened or unavailable for Permittee's use, or the facilities of all users of the poles are required to go underground then Permittee shall, at its expense, place such portion of its Telecommunication Facilities underground, unless Municipality approves an alternate location. Permittee may perform maintenance on the Telecommunication Facilities without prior approval of Municipality, provided that Permittee shall obtain any and all permits required by Municipality in the event that any maintenance will disturb or block vehicular traffic or are otherwise required by Municipality.
- 4.7 Pavement Cut Coordination. Permittee shall coordinate its construction and all other work in the Public Right-of-Way with Municipality's program for street construction and rebuilding (collectively "Street Construction") and its program for street repaving and resurfacing (except seal coating and patching) (collectively, "Street Resurfacing").
- 4.7.1 The goals of such coordination shall be to encourage Permittee to conduct all work in the Public Right-of-Way in conjunction with or immediately prior to any Street Construction or Street Resurfacing planned by Municipality.
- 4.8 Compliance with Laws. Permittee shall comply with all laws, statutes, ordinances, rules and regulations regarding the construction, installation, and maintenance of its Telecommunication Facilities, whether federal, state or local, now in force or which hereafter may be promulgated. Before any installation is commenced, Permittee shall secure all necessary permits, licenses and approvals from Municipality or other governmental entity as may be required by law, including, without limitation, all utility line permits and highway permits. Permittee shall comply in all respects with applicable codes and industry standards, including but not limited to the National Electrical Safety Code (latest edition adopted by Michigan Public Service Commission) and the National Electric Code (latest edition). Permittee shall comply with all zoning and land use ordinances and historic preservation ordinances as may exist or may hereafter be amended.
- 4.9 Street Vacation. If Municipality vacates or consents to the vacation of Public Right-of-Way within its jurisdiction, and such vacation necessitates the removal

and relocation of Permittee's Facilities in the vacated Public Right-of-Way, Permittee shall, as a condition of this Permit, consent to the vacation and remove its Facilities at its sole cost and expense when ordered to do so by Municipality or a court of competent jurisdiction. Permittee shall relocate its Facilities to such alternate route as Municipality, applying reasonable engineering standards, shall specify.

- 4.10 Relocation. If Municipality requests Permittee to relocate, protect, support, disconnect, or remove its Facilities because of street or utility work, or other public projects, Permittee shall relocate, protect, support, disconnect, or remove its Facilities, at its sole cost and expense, including where necessary to such alternate route as Municipality, applying reasonable engineering standards, shall specify. The work shall be completed within a reasonable time period.
- 4.11 Public Emergency. Municipality shall have the right to sever, disrupt, dig-up or otherwise destroy Facilities of Permittee if such action is necessary because of a public emergency. If reasonable to do so under the circumstances, Municipality will attempt to provide notice to Permittee. Public emergency shall be any condition which poses an immediate threat to life, health, or property caused by any natural or man-made disaster, including, but not limited to, storms, floods, fire, accidents, explosions, water main breaks, hazardous material spills, etc. Permittee shall be responsible for repair at its sole cost and expense of any of its Facilities damaged pursuant to any such action taken by Municipality.
- 4.12 Miss Dig. If eligible to join, Permittee shall subscribe to and be a member of "MISS DIG," the association of utilities formed pursuant to Act 53 of the Public Acts of 1974, as amended, MCL § 460.701 et seq., and shall conduct its business in conformance with the statutory provisions and regulations promulgated thereunder.
- 4.13 Underground Relocation. If Permittee has its Facilities on poles of Consumers Energy, Detroit Edison or another electric or telecommunications provider and Consumers Energy, Detroit Edison or such other electric or telecommunications provider relocates its system underground, then Permittee shall relocate its Facilities underground in the same location at Permittee's sole cost and expense.
- 4.14 Identification. All personnel of Permittee and its contractors or subcontractors who have as part of their normal duties contact with the general public shall wear on their clothing a clearly visible identification card bearing Permittee's name, their name and photograph. Permittee shall account for all identification cards at all times. Every service vehicle of Permittee and its contractors or subcontractors shall be clearly identified as such to the public, such as by a magnetic sign with Permittee's name and telephone number.

5 Indemnification

- 5.1 Indemnity. Permittee shall defend, indemnify, protect, and hold harmless Municipality, its officers, agents, employees, elected and appointed officials, departments, boards, and commissions from any and all claims, losses, liabilities, causes of action, demands, judgments, decrees, proceedings, and expenses of any nature (collectively "claim" for this Part 5) (including, without limitation, attorneys' fees) arising out of or resulting from the acts or omissions of Permittee, its officers, agents, employees, contractors, successors, or assigns, but only to the extent such acts or omissions are related to the Permittee's use of or installation of facilities in the Public Right-of-Way and only to the extent of the fault or responsibility of Permittee, its officers, agents, employees, contractors, successors and assigns.
- 5.2 Notice, Cooperation. Municipality will notify Permittee promptly in writing of any such claim and the method and means proposed by Municipality for defending or satisfying such claim. Municipality will cooperate with Permittee in every reasonable way to facilitate the defense of any such claim. Municipality will consult with Permittee respecting the defense and satisfaction of such claim, including the selection and direction of legal counsel.
- 5.3 Settlement. Municipality will not settle any claim subject to indemnification under this Part 5 without the advance written consent of Permittee, which consent shall not be unreasonably withheld. Permittee shall have the right to defend or settle, at its own expense, any claim against Municipality for which Permittee is responsible hereunder.

6 Insurance

- 6.1 Coverage Required. Prior to beginning any construction in or installation of the Telecommunication Facilities in the Public Right-of-Way, Permittee shall obtain insurance as set forth below and file certificates evidencing same with Municipality. Such insurance shall be maintained in full force and effect until the end of the Term. In the alternative, Permittee may satisfy this requirement through a program of self-insurance, acceptable to Municipality, by providing reasonable evidence of its financial resources to Municipality. Municipality's acceptance of such self-insurance shall not be unreasonably withheld.
- 6.1.1 Commercial general liability insurance, including Completed Operations Liability, Independent Contractors Liability, Contractual Liability coverage, railroad protective coverage and coverage for property damage from perils of explosion, collapse or damage to underground utilities, commonly known as XCU coverage, in an amount not less than Five Million Dollars (\$5,000,000).
- 6.1.2 Liability insurance for sudden and accidental environmental

contamination with minimum limits of Five Hundred Thousand Dollars (\$500,000) and providing coverage for claims discovered within three (3) years after the term of the policy.

- 6.1.3 Automobile liability insurance in an amount not less than One Million Dollars (\$1,000,000).
- 6.1.4 Workers' compensation and employer's liability insurance with statutory limits, and any applicable Federal insurance of a similar nature.
- 6.1.5 The coverage amounts set forth above may be met by a combination of underlying (primary) and umbrella policies so long as in combination the limits equal or exceed those stated. If more than one insurance policy is purchased to provide the coverage amounts set forth above, then all policies providing coverage limits excess to the primary policy shall provide drop down coverage to the first dollar of coverage and other contractual obligations of the primary policy, should the primary policy carrier not be able to perform any of its contractual obligations or not be collectible for any of its coverages for any reason during the Term, or (when longer) for as long as coverage could have been available pursuant to the terms and conditions of the primary policy.
- 6.2 Additional Insured. Municipality shall be named as an additional insured on all policies (other than worker's compensation and employer's liability). All insurance policies shall provide that they shall not be canceled, modified or not renewed unless the insurance carrier provides thirty (30) days prior written notice to Municipality. Permittee shall annually provide Municipality with a certificate of insurance evidencing such coverage. All insurance policies (other than environmental contamination, workers' compensation and employer's liability insurance) shall be written on an occurrence basis and not on a claims made basis.
- 6.3 Qualified Insurers. All insurance shall be issued by insurance carriers licensed to do business by the State of Michigan or by surplus line carriers on the Michigan Insurance Commission approved list of companies qualified to do business in Michigan. All insurance and surplus line carriers shall be rated A+ or better by A.M. Best Company.
- 6.4 Deductibles. If the insurance policies required by this Part 6 are written with retainages or deductibles in excess of \$50,000, they shall be approved by Manager in advance in writing. Permittee shall indemnify and save harmless Municipality from and against the payment of any deductible and from the payment of any premium on any insurance policy required to be furnished hereunder.
- 6.5 Contractors. Permittee's contractors and subcontractors working in the Public Right-of-Way shall carry in full force and effect commercial general liability,

environmental contamination liability, automobile liability and workers' compensation and employer liability insurance which complies with all terms of this Part 6. In the alternative, Permittee, at its expense, may provide such coverages for any or all its contractors or subcontractors (such as by adding them to Permittee's policies).

- 6.6 Insurance Primary. Permittee's insurance coverage shall be primary insurance with respect to Municipality, its officers, agents, employees, elected and appointed officials, departments, boards, and commissions (collectively "them"). Any insurance or self-insurance maintained by any of them shall be in excess of Permittee's insurance and shall not contribute to it (where "insurance or self-insurance maintained by any of them" includes any contract or agreement providing any type of indemnification or defense obligation provided to, or for the benefit of them, from any source, and includes any self-insurance program or policy, or self-insured retention or deductible by, for or on behalf of them).

7 Term

- 7.1 Term. The term ("Term") of this Permit shall be until the earlier of:

- 7.1.1 Five Years (5) [five years or less] from the Date of Issuance; or
- 7.1.2 When the Telecommunication Facilities has not been used to provide telecommunications services for a period of one hundred and eighty (180) days by Permittee or a successor or an assignee of Permittee; or
- 7.1.3 When Permittee, at its election and with or without cause, delivers written notice of termination to Municipality at least one-hundred and eighty (180) days prior to the date of such termination; or
- 7.1.4 Upon either Permittee or Municipality giving written notice to the other of the occurrence or existence of a default by the other party under Sections 4.8, 6, 8 or 9 of this Permit and such defaulting party failing to cure, or commence good faith efforts to cure, such default within sixty (60) days (or such shorter period of time provided elsewhere in this Permit) after delivery of such notice; or
- 7.1.5 Unless Manager grants a written extension, one year from the Date of Issuance if prior thereto Permittee has not started the construction and installation of the Telecommunication Facilities within the Public Right-of-Way and two years from the Date of Issuance if by such time construction and installation of the Telecommunication Facilities is not complete.

8 Performance Bond or Letter of Credit

- 8.1 Municipal Requirement. Municipality may require Permittee to post a bond (or letter of credit) as provided in Section 15(3) of the METRO Act, as amended [MCL § 484.3115(3)].

9 Fees

- 9.1 Establishment; Reservation. The METRO Act shall control the establishment of right-of-way fees. The parties reserve their respective rights regarding the nature and amount of any fees which may be charged by Municipality in connection with the Public Right-of-Way.

10 Removal

- 10.1 Removal; Underground. As soon as practicable after the Term, Permittee or its successors and assigns shall remove any underground cable or other portions of the Telecommunication Facilities from the Public Right-of-Way which has been installed in such a manner that it can be removed without trenching or other opening of the Public Right-of-Way. Permittee shall not remove any underground cable or other portions of the Telecommunication Facilities which requires trenching or other opening of the Public Right-of-Way except with the prior written approval of Manager. All removals shall be at Permittee's sole cost and expense.

10.1.1 For purposes of this Part 10, "cable" means any wire, coaxial cable, fiber optic cable, feed wire or pull wire.

- 10.2 Removal; Above Ground. As soon as practicable after the Term, Permittee, or its successor or assigns at its sole cost and expense, shall, unless waived in writing by Manager, remove from the Public Right-of-Way all above ground elements of its Telecommunication Facilities, including but not limited to poles, pedestal mounted terminal boxes, and lines attached to or suspended from poles.

- 10.3 Schedule. The schedule and timing of removal shall be subject to approval by Manager. Unless extended by Manager, removal shall be completed not later than twelve (12) months following the Term. Portions of the Telecommunication Facilities in the Public Right-of-Way which are not removed within such time period shall be deemed abandoned and, at the option of Municipality exercised by written notice to Permittee as set forth in Part 12, title to the portions described in such notice shall vest in Municipality.

- 11 Assignment. Permittee may assign or transfer its rights under this Permit, or the persons or entities controlling Permittee may change, in whole or in part, voluntarily, involuntarily, or by operation of law, including by merger or consolidation, change in the

ownership or control of Permittee's business, or by other means, subject to the following:

- 11.1 No such transfer or assignment or change in the control of Permittee shall be effective under this Permit, without Municipality's prior approval (not to be unreasonably withheld), during the time period from the Date of Issuance until the completion of the construction of the Telecommunication Facilities in those portions of the Public Right-of-Way identified on Exhibit A.
- 11.2 After the completion of such construction, Permittee must provide notice to Municipality of such transfer, assignment or change in control no later than thirty (30) days after such occurrence; provided, however,
 - 11.2.1 Any transferee or assignee of this Permit shall be qualified to perform under its terms and conditions and comply with applicable law; shall be subject to the obligations of this Permit, including responsibility for any defaults which occurred prior to the transfer or assignment; shall supply Municipality with the information required under Section 3.1; and shall comply with any updated insurance and performance bond requirements under Sections 6 and 8 respectively, which Municipality reasonably deems necessary, and
 - 11.2.2 In the event of a change in control, it shall not be to an entity lacking the qualifications to assure Permittee's ability to perform under the terms and conditions of this Permit and comply with applicable law; and Permittee shall comply with any updated insurance and performance bond requirements under Sections 6 and 8 respectively, which Municipality reasonably deems necessary.
- 11.3 Permittee may grant a security interest in this Permit, its rights thereunder or the Telecommunication Facilities at any time without notifying Municipality.

12 Notices

- 12.1 Notices. All notices under this Permit shall be given as follows:
 - 12.1.1 If to Municipality, to [address], with a copy to [address].
 - 12.1.2 If to Permittee, to Joan Richards, Area Manager, SBC Michigan, 54 N. Mill St., Box 32, Pontiac, Mi. 48342
 - 12.1.3 With a copy to Celeste Weidig, Area Engineer, 550 S. Maple , Ann Arbor, Mi. 48103.
- 12.2 Change of Address. Permittee and Municipality may change its address or personnel for the receipt of notices at any time by giving notice thereof to the

other as set forth above.

13 Other items

- 13.1 No Cable, OVS. This Permit does not authorize Permittee to provide commercial cable type services to the public, such as "cable service" or the services of an "open video system operator" (as such terms are defined in the Federal Communications Act of 1934 and implementing regulations, currently 47 U.S.C. §§ 522 (6), 573 and 47 CFR § 76.1500).
- 13.2 Effectiveness. This Permit shall become effective when Permittee has provided any insurance certificates and bonds required in Parts 6 and 8, and signed the acknowledgement of receipt, below.
- 13.3 Authority. This Permit satisfies the requirement for a permit under Section 5 of the METRO Act [MCL 484.3105].
- 13.4 Interpretation and Severability. The provisions of this Permit shall be liberally construed to protect and preserve the peace, health, safety and welfare of the public, and should any provision or section of this Permit be held unconstitutional, invalid, overbroad or otherwise unenforceable, such determination/holding shall not be construed as affecting the validity of any of the remaining conditions of this Permit. If any provision in this Permit is found to be partially overbroad, unenforceable, or invalid, Permittee and Municipality may nevertheless enforce such provision to the extent permitted under applicable law.
- 13.5 Governing Law. This Permit shall be governed by the laws of the State of Michigan.

[Municipality name]

Charter Township of Plymouth

By: Marilyn Massengill
Marilyn Massengill

Its Clerk

Date: July 13, 2005

Acknowledgement of Receipt: Permittee acknowledges receipt of this Permit granted by Municipality.

Michigan Bell Telephone d.b.a. SBC

By: Joan C. Richards

Its: Area Manager
Date: 7/14/05

Exhibit A

Public Right-of-Way to be used by Telecommunication Facilities

All existing facilities assumed in all Existing Rights of Way in the Municipality shown on the "SBC Route Maps for PA 48" CD-ROM disc dated October 2003 that was submitted with the Application, which is considered part of this Permit and Exhibit. Calculations of lineal footages used in determining maintenance fees for municipality are based on these Maps, with the assumption SBC Michigan occupies all rights of ways.

Municipality's acceptance of the described CD-ROM disc, which designates the Roads, Rights of Ways and Routes existing facilities follow by a single line, with road names identified, but not the actual location of Permittee's existing facilities within the Rights of Way, is not a waiver of, nor an acknowledgement that the CD-ROM satisfies the requirement in Section 2.3 of the Application to: "Attach route maps showing the location of Applicant's existing and proposed facilities in the public rights of way", or the statutory basis for the language under section 6(5) of the METRO Act. If it is later determined by the METRO Authority, Michigan Public Services Commission, or a court of competent jurisdiction, in a final order that is not challengable or appealable and binding on the Permittee: that the CD-ROM disc does not satisfy the requirements of Section 6(5) of the METRO Act, the Municipality reserves the right to require the Permittee to submit an amended Route Map that conforms to the requirements of, and within the timeframes set forth in the order or judgement.

Exhibit B

Bond

Letter of Credit to be submitted with Construction Permits at time of Specific Application

::ODMA\PCDOCS\GRR\764521\3



Judy K. Klimek
METRO Act Administrator
54 N. Mill Street, Box 30
Pontiac, MI 48342
(248) 456-0855

June 15, 2009

05-18-09 11:30 IN

Mr. Joseph Bridgman, Clerk
Township of Plymouth
9955 North Haggerty Road, 1st Floor
Plymouth, MI. 48170

METRO ACT RIGHT OF WAY PERMIT EXTENSION

Dear Mr. Bridgman,

This is a letter agreement which extends the existing METRO Act Permit issued by the Township of Plymouth to Michigan Bell Telephone Company formerly d/b/a SBC Michigan, now d/b/a AT&T Michigan ("AT&T") which expires on August 17, 2009. The extension is for a term to end on August 30, 2011.

If this is agreeable, please sign both copies of the extension letter agreement in the place provided below and return to AT&T Michigan at the above listed address. Upon receipt AT&T will acknowledge and return one copy for your files.

Additional information regarding this renewal request may be found at <http://www.michigan.gov/mpsc>. Please click on Telecommunications, Metro Act-Right of Way, and AT&T Michigan 2 Year Permit Extension.

We would appreciate return of the signed copies within 30 days of receiving this request. Your cooperation is appreciated.

If you have any questions feel free to contact Judy Klimek at 248.456.0855.

Lynn Dutton → LD1432@att.com

Agreed to by and on behalf of
Township of Plymouth

Michigan Bell Telephone d/b/a

AT&T acknowledges receipt of
this Permit Extension granted by
the municipality.

By:

Its:

Date:

Joe Bridgman
Clerk
7-21-09

Richard M. Korman
SUPERVISOR
7-21-09

By:

Its: METRO Act Administrator

Date:

[Signature]
8/4/2009



Lynn Cook Dutton
 METRO Act Administrator
 AT&T Michigan
 23500 Northwestern Highway E219
 Southfield, MI 48075

June 15, 2011

Mr. Joseph Bridgman, Clerk
 Township of Plymouth
 9955 North Haggerty Road, 1st Floor
 Plymouth, Michigan 48170

RECEIVED
 7-29-11

METRO ACT RIGHT OF WAY PERMIT EXTENSION

Dear Mr. Bridgman,

This is a letter agreement which extends the existing METRO Act Permit issued by Plymouth Township to Michigan Bell Telephone Company d/b/a AT&T Michigan ("AT&T") which expires on August 30, 2011. The extension is for a term to end on August 30, 2014.

If this is agreeable, please sign both copies of the extension letter agreement in the place provided below and return to AT&T Michigan at the address at the top of this document. Upon receipt AT&T will acknowledge and return one copy for your files.

Additional information regarding this renewal request may be found at <http://www.michigan.gov/mpsc>. Please click on Telecommunications, METRO Act/Right of Way, and AT&T 3 Year permit extension.

We would appreciate return of the signed copies within 30 days of receiving this request. Your cooperation is appreciated.

If you have any questions feel free to contact Ms. Lynn Dutton via e-mail, LD1432@att.com or 248.424.0124.

Agreed to by and on behalf of the
Township of Plymouth

**Michigan Bell Telephone Company d/b/a
 AT&T** acknowledges receipt of this
 Permit Extension granted by the municipality.

By: Joe Bridgman

Richard M. Reame
 RICHARD M. REAME

By: Lynn Cook Dutton

Lynn Cook Dutton

Its: Clerk

SUPERVISOR
7-26-11

Its: METRO Act Administrator

Date: 7-26-2011

Date: 8/3/11



AT&T Michigan
 Susan Sampier
 METRO Act Administrator
 54 N. Mill Street
 Mailbox #30
 Pontiac, MI 48342

May 1, 2014

Mr. Joseph Bridgman, Clerk
 Township of Plymouth
 9955 North Haggerty Rd. 1st Floor
 Plymouth, MI 48170

METRO ACT RIGHT OF WAY PERMIT EXTENSION

Dear Ms. Bridgman,

This is a letter agreement which extends the existing METRO Act Permit issued by the Township of Plymouth/Wayne County to Michigan Bell Telephone Company d/b/a AT&T Michigan ("AT&T") which expires on August 30, 2014. The extension is for a term to end on August 30, 2019.

If this is agreeable, please sign both copies of the extension letter agreement in the place provided below and return to AT&T Michigan at the address on this letterhead. Upon receipt AT&T will acknowledge and return one copy for your files.

Additional information regarding this renewal request may be found at <http://www.michigan.gov/mpsc>. Please click on Telecommunications, METRO Act/Right of Way, and AT&T 5 Year permit extension.

We would appreciate return of the signed copies within 30 days of receiving this request. Your cooperation is appreciated.

If you have any questions feel free to contact Ms. Susan Sampier via e-mail, ss4792@att.com or 248.456.0361.

Agreed to by and on behalf of the
Township of Plymouth

Michigan Bell Telephone Company d/b/a
 AT&T acknowledges receipt of this
 Permit Extension granted by the municipality.

By: *Richard M. Kerner*
 Signature
 TOWNSHIP
 Its: *SUPERVISOR*
 Date: *9-23-14*

Pammy Pongluek
 Township Clerk
 9-23-14

By: *Susan Sampier*
 Susan Sampier
 Its: METRO Act Administrator
 Date: *9-30-14*

CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019

ITEM G
SUPERVISOR AND TRUSTEE
COMMENTS

CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019

ITEM H
PUBLIC COMMENTS AND QUESTIONS

CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019

ITEM I
CLOSED SESSION

CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019

ITEM J
RETURN TO OPEN SESSION

CHARTER TOWNSHIP OF PLYMOUTH
BOARD OF TRUSTEES
REGULAR MEETING
AUGUST 27, 2019

ITEM K
ADJOURNMENT