



AGENDA
Committee of the Whole
Monday, October 30, 2017 – 5:30 p.m.
City Council Chambers, City Hall 10th Floor

Council Member Spitzley, Chairperson
Council Member Wood, Vice Chair

1. **Call to Order**
2. **Roll Call**
3. **Minutes**
 - October 23, 2017
4. **Public Comment on Agenda Items (Up to 3 Minutes)**
5. **Presentation:**
 - The Opioid Crisis and its Public Nuisance Effects on the City of Lansing
6. **Discussion/Action:**
 - A.) RESOLUTION – Declaring Opioid Epidemic a Public Nuisance
 - B.) RESOLUTION – Approval of Outside Counsel for Opioid Litigation
 - C.) RESOLUTION - Renaming of East Grand River Avenue and W. Grand River Avenue from Oakland Avenue to Pine Street to Cesar E. Chavez Avenue
 - D.) RESOLUTION – Notice of Intent to Issue Bonds; Combined Sewer Overflow 34C Project
 - E.) RESOLUTION – 2018 City Council Meeting Schedule
 - F.) RESOLUTION – Introduction and Setting of a Public Hearing on the City of Lansing Form Based Code
7. **Other/Place on File:**
 - LBWL Proposed Electric, Water, Steam and Chill Water Rate Changes
 - City Council Facebook Page Policy –City Attorney
8. **Adjourn**

The City of Lansing's Mission is to ensure quality of life by:

- I. Promoting a vibrant, safe, healthy and inclusive community that provides opportunity for personal and economic growth for residents, businesses and visitors
- II. Securing short and long term financial stability through prudent management of city resources.
- III. Providing reliable, efficient and quality services that are responsive to the needs of residents and businesses.
- IV. Adopting sustainable practices that protect and enhance our cultural, natural and historical resources.
- V. Facilitating regional collaboration and connecting communities

[illegible]



MINUTES
Committee of the Whole
Monday, October 23, 2017 @ 5:30 p.m.
City Council Chambers

CALL TO ORDER

Council Vice President Wood called the meeting to order at 5:30 p.m.

PRESENT

Councilmember Brown Clarke
Councilmember Kathie Dunbar- arrived at 5:32 p.m.
Councilmember Tina Houghton
Councilmember Adam Hussain
Councilmember Patricia Spitzley- excused
Councilmember Jody Washington
Councilmember Carol Wood
Councilmember Jessica Yorko

OTHERS PRESENT

Sherrie Boak, Council Staff
Jim Smiertka, City Attorney- arrived at 5:35 p.m.
Heather Sumner, Assistant City Attorney
Dick Peffley, BWL Manager
Heather Shawa, CFO
Calvin Jones, BWL
Elaine Womboldt
Bill Rieske, Planning & Neighborhood Development
Robert Doyle, Smith Group JJR
Oliver Kiley, Smith Group JJR

Minutes

MOTION BY COUNCIL MEMBER BROWN CLARKE TO APPROVE THE MINUTES FROM OCTOBER 9, 2017 AS PRESENTED. MOTION CARRIED 7-0.

Public Comment on Agenda Items

Ms. Womboldt spoke with an interest in the Form Based Code and her concern with it as a method for the City of Lansing.

Presentation

Lansing Board of Water and Light (LBWL) FY 2018-2023 Capital Improvements Plan (15-20 minutes)

Mr. Peffley introduced Ms. Shawa. Council Member Wood asked Mr. Peffley and Ms. Shawa to also speak to the proposed rate increases that are being referred later at the Council meeting.

Ms. Shawa referred the Committee to the six year forecast spreadsheet in their packet. The six year total before the new plant would be \$393,970 million, and the new plant is projected at \$473,636 million bringing the total for the six year forecast to \$867,606 million. Major changes include the shutting of the coal plants by 2025, new technology implementations such as the smart meters which will replace the current systems.

Council Member Wood reminded them that when they came to Council about building the new plant, they mentioned upgrading 2-3 other plants, and then asked if those were in this forecast. Ms. Shawa confirmed there will be 3 new build substations, some updating at others but she did not have the exact locations of those projects.

Mr. Peffley then outlined the proposed rate increases that the Council will see as a referral at the Council meeting later in the evening. Mr. Peffley stated that the BWL Management put together a proposal for a multi-rate strategy, and then the Finance Committee submitted their suggestions for rate increases for electric, water and steam. There will not be a rate increase in the chill water. The plan will be for a 3 year plan of increases to pay capital debt and by planning for increases over 3 years, the residents can plan for 3 years, and not the unknown from year to year. The BWL Commissioners have set a public hearing for November 30, 2017 at 5:30 p.m. at their Depot location. After the hearing the BWL Board will hold a meeting on December 5, 2017 at 5:30 p.m. to consider the recommendations for approval. Regarding the increases, the electrical rate will increase overall at 3% per year, each year for 3 years. They determined this by a cost service study by rate class. The residential rate increase will be 3.9%, a \$3.16 per month increase, which is the cost of service that BWL bares. Residential usage is 20% of the BWL revenue and makes up the bulk of their customers. The rates increase will start on February 1, 2018. This rate increase, Mr. Peffley stated was based on the cost of inflation and no services will be cut back. The water rates will increase by 5.5% for the first year, then 7.5% for the second and third year for residential customers.

Council Member Yorko asked for the confirmation date of the coal plants closing, and Mr. Peffley stated it would be 12/31/2025. She then asked for specifics again on the water increases. Mr. Peffley confirmed it would be 5.5% the first year, then 7.5% for year 2 and 3, which is an average increase of \$2.29. They are looking at the 3 year increase because if they didn't, and came back in 6 years it would be higher. The average is going to be less than inflation over 6 years.

Council Member Hussain asked for the dates of the public hearing again and their determination meeting. The public hearing is November 30, 2017 at 5:30 p.m. in the Depot location, and then the Board will meet on December 5, 2017 at 5:30 p.m. in the same location.

Council Member Brown Clarke stepped away from the meeting at 5:48 p.m.

Council Member Wood asked if how the proposed rates compare to Consumers Energy rates.

Mr. Peffley admitted that the rates vary month to month, and his goal is to always be under the competitor rates by double digits. Council Member Wood then pointed out the 90% of the residents have water and electric so will be effected by both increases.

Council Member Brown Clarke returned to the meeting at 5:49 p.m.

Council Member Wood asked the BWL representatives to consider not starting the increase in February but in March when it is warmer. Mr. Peffley stated that the new plant will be between \$470 million and \$550 million, and that needs to be bonded for which will occur in the summer of 2018. The rate agencies want to see that rates have been set in place and by starting in February this will help BWL secure the bond funding for the new plant. Mr. Peffley stated he would still take her suggestion back to the BWL Commissioners.

Council Member Wood then asked Mr. Peffley about the strategies for those residents that have a difficulty paying for their utilities, and questioned why when the opportunity was presented to BWL to work with the State why they chose not to participate in that program. Mr. Peffley stated that 2/3 of the utility companies do not opt in, and if they do opt in it is \$.96 on each meter. If BWL is going to take the customers money, they want to give it back to the customer, and if BWL were to opt in to the program, 40% of the money would go to the 3rd party. This fund does help on energy, but on the back of the electric customers. Ms. Shawa confirmed there are several programs currently and you can opt in or opt out every July 1st, so BWL can still consider it in the future. The BWL has long been opting out, primarily due to the Board's stance that during the crisis time (November to April) if they opt in, they have to issue final notices and shut offs, and this is against the BWL Board policies.

Council Member Wood then asked if any BWL workers were sent to hurricane effected states. Mr. Peffley stated they did go to Florida, and they are currently looking at options to assist Puerto Rico.

City of Lansing Form-Based Code (FBC) Draft Ordinance (Planning & Neighborhood Development)

Mr. Rieske introduces Mr. Doyle and Mr. Kiley with Smith Group JJR. Mr. Rieske then provided a quick introduction on timeline from when the Master Plan was adopted in 2012. The proposed Form Based Code is a tool to implement the recommendations of the Master Plan with land use and aesthetics recommendations. Part of the determinations in portions of the proposed Form Based Code came from the questionnaire that was done during the Master Plan process. This was done to find out where people want to enhance, transform or preserve. The current development patterns were also taken into consideration with the Form Based Code.

Mr. Kiley shared a power point presentation which outlined the switch to Form Based Code that would embody and enforce the vision and goals of the Comprehensive Plan and culminates in the replace of the existing zoning ordinance, in a way that promotes economic vitality and community benefit. In creation of the Form Based Code they looked at residential areas, commercial corridors and small commercial areas. They took what they saw out to the public and asked them what they thought needed to be enhanced, preserved or transformed. The key findings during the Master Plan process was that people found the neighborhoods were great, but that the image of the City viewed from the corridors were not at the same level as the neighborhoods.

The presentation continued with maps of the existing pattern and the map of the areas there is an interest to preserve, enhance and transform. Form Based Code will not deal with setbacks, but accommodate the surroundings and address it that way. The Committee was informed that in September, 2017 in addition to public meetings, there were also developer forums. The proposed Code will protect residential areas and achieve the overall Master Plan. From a developer standpoint, Form Based Codes can speed up the review process. Form Based Code sets the visions and the developer meets the criteria. Form Based Code also provides incentives to add in or include elements that the community was asking for in the Master Plan,

such as green building standards. Page 6 of the presentation provided a comparison between the current conventional zoning and the Form Based Code. The new code is more graphic and easier to navigate, there are regulating plans and the section of the code will address the layout. A list of cities in Michigan was provided that currently have Form Based Code in some area of their community. The maps reflected the three districts; Commercial, Residential and Special Districts, in addition to a map on street typologies. Several pages in the presentation addressed architectural guidelines and features. Mr. Rieske concluded the presentation by stating that all the information was available on the City of Lansing website, under the Planning and Neighborhood Development page, under Design Lansing Master Plan, then Form Based Code.

Council Member Wood asked if they provided a table that integrates the current zoning into the proposed. Something that would show what the current districts could change into.

Council Member Yorko asked if uses are allowed in each district, could her neighbor in a residential home open a retail business as long as they keep it looking like a house. Mr. Doyle state that thee characterize the change more permissive, not a free for all but particular to the residential districts. When they spoke to the public at the meetings, the community wanted to preserve what they have now in their neighborhoods, so it will be a very little difference then what is there now. Mr. Kiley referenced page 12 of the presentation, which breaks down under 1243, 1244 and 1245 the use tables, and there is also a table in the appendix of the code itself.

Council Member Yorko asked for numbers across the United States where the communities use the current zoning and how many use Form Based Code, and what the pros and cons are. Mr. Rieske had no estimate because Form Based Codes are a new thing and the bulk of the communities have a separation of uses on the land, so the uses in a commercial area will never meet a residential use, and there are not a lot of mixed uses. Currently the City is similar to that now because they do not allow commercial in a residential zone. Form Based Code takes advantage of mixed use and walkability to the districts. Council Member Yorko referred the group to page 7 of the presentation which appeared to allow changes in use without a rezoning and a variance. Mr. Doyle clarified that the use has to fall within the list of allowed use. Council Member Yorko asked if the communities that have done Form Based Code, if they have eliminated the opportunity to request rezoning. Mr. Doyle stated the City will have a balance in regulating uses.

Council Member Brown Clarke acknowledged the presentation and the structure and personality Form Based Code will provide to the City. She then asked if there was flexibility in the code for the facades because over time materials change and it would be a good idea to have projective thinking in the model. Mr. Kiley referenced Chapter 1246 of the Code which speaks to controls of the architectural standards and they are designed to have a greater flexibility, and broader visions. In a comparison to other Form Based Codes, the City of Lansing appears to be tight on the uses, but broader on the architectural features.

Council Member Washington supported the direction of districts similar to Old Town, REOTown and downtown, but asked if the United States is a pioneer in Form Based Code, why other progressive cities were not using it. Mr. Kiley stated that the early forms of Form Based Code were trying to create mixed uses, and that is what happened in Grand Rapids where they have a hybrid code and now that has an uncertainty. Now 15 years later and more Form Based Codes area getting adopted which are applying the same ideas across the whole City. From the meetings PND has had in the City of Lansing, they have heard that people what to strengthen and preserve the residential corridors, so that was taken into consideration which the current zoning ordinance does not do. Council Member Washington asked if Form

Based Code would have been in effect would it have stopped NIOWAVE from being built, and Mr. Rieske confirmed it would.

Council Member Hussain asked for information on communities that have already adopted a Form Based Code, and if Lansing is one in a handful of communities, if they could provide a City that adopted it in a broader sense and how they applied it. Mr. Kiley confirmed that Buffalo had adopted their 6 months ago, and Cincinnati recently adopted one also. Council Member Wood referred Council Member Hussain to page 10 in the presentation. Mr. Doyle confirmed that some on that list were not full City adoptions, but he could provide a specific list. He then added that in Michigan people are cautious, and seek the benefit to learn from other communities and States before they embark on anything. The Form Based Code is the standard in the United States, and recently they presented the proposed City Form Based Code at a MAP event, and people came to see what the City was doing to follow in their footsteps.

Council Member Houghton acknowledged how cautious the plan appeared, supported the progress and encouraged more outreach to the neighborhoods and businesses.

Council Member Dunbar acknowledged the Master Plan that was done 9 years ago and the at the time it was hard to envision the plan to reinvigorate the corridors because this Form Based Code was not in place, and now after seeing the proposed Code it has come full circle

Council Member Wood asked if “home occupation” was still included in the Form Based Code, and Mr. Rieske confirmed it was. Council Member Wood then asked if Form Based Code was similar to spot-zoning. Mr. Kiley referred the Committee to the two maps in the presentation and their handouts, and concluded that with the comparison, the Form Based Code is more unified, simplifying it and providing more cohesiveness.

Council Member Dunbar encouraged Smith Group to attend neighborhood meetings to provide the presentation, and then asked if in the Form Based Code someone could take an industrial building in commercial areas, and provide residential units in them. Mr. Kiley stated the zone might still be industrial, but they could look at it depending on which industrial in the Special Districts, and Mr. Doyle confirmed they could look at that option for significance and consider top floor residential.

Discussion/Action:

Nothing on the agenda for action.

Other

Council Member Wood recapped for the public and Committee that a public hearing was set for the amendments to the 2011 Medical Marijuana Ordinance based on a petition that was filed on October 6, 2017 to repeal the 2017 Ordinance, however the Clerk determined October 20th that there were not enough valid signatures on the petition. Law was asked what the next steps would be. Ms. Smiertka added to the history stating the 2017 Ordinance was adopted September 7th, and took effect 30 days later, October 7, 2017. When the petition, claiming to be a referendum of the 2017 Ordinance, was filed on October 6th, under the Charter the 2017 Ordinance was automatically suspended until certain things occurred. This then put in place the 2011 Ordinance, and during the time frame needed to verify signatures on the petition, the 2017 remains suspended and the 2011 remains in effect. After the Clerk determined the petition did not have enough valid signatures, this in effect lifted the suspension of the 2017 Ordinance and makes it now in effect. Mr. Smiertka continued by noting the next steps, even if the group that submitted the petition got more signatures, the 2017 stays in effect. The group has 10 days to submit the remaining valid signatures needed. If the Clerk validates the

signatures and accepts the petition as valid, he will submit it to Council to either repeal the 2017 Ordinance as requested in the petition, and if they choose to repeal it the 2011 Ordinance will be back in effect. If Council does not repeal it, then it will go to a vote of the people in May, 2018. Mr. Smiertka concluded that it was their opinion that at this time they would advise Council to still hold the scheduled hearing on the 2011 Amendments. He did clarify that Law had reviewed the petition in question, and determined it had legal issues, however the Clerk chose not to take that into consideration, and in making his decision on the validity of the petition only used the fact there were not enough valid signatures. If the Clerk submits a petition to Council to consider they have 30 days to repeal or put on the ballot. If after the 10 days the group submits signatures and they still are not enough valid signatures, nothing will come to Council on this matter.

Adjourn

Adjourned at 6:57 p.m.

Respectfully Submitted by,
Sherrie Boak, Recording Secretary
Lansing City Council
Approved by Committee on



Virg Bernero
Mayor

DESIGN LANSING

FORM-BASED CODE

Preview
October 2017





LANSING FBC

Introduction

Code Structure

Example Sections

Overall FBC Project Goal:

*To provide the City of Lansing with a new **Form-Based zoning** code that embodies and enforces the vision and goals of the Comprehensive Plan and culminates in the **replacement** of the existing zoning ordinance, in a way that promotes economic vitality and community benefit.*

- A. **Design Lansing Comprehensive Plan** provides the “vision” for the community.
- B. **Zoning Codes** are the rules and regulations that can put a master plan into practice.
- C. **Form-Based Codes** are a newer approach to zoning that can better reinforce desired community character attributes and quality of life objectives.



Adopted:

April 9, 2012

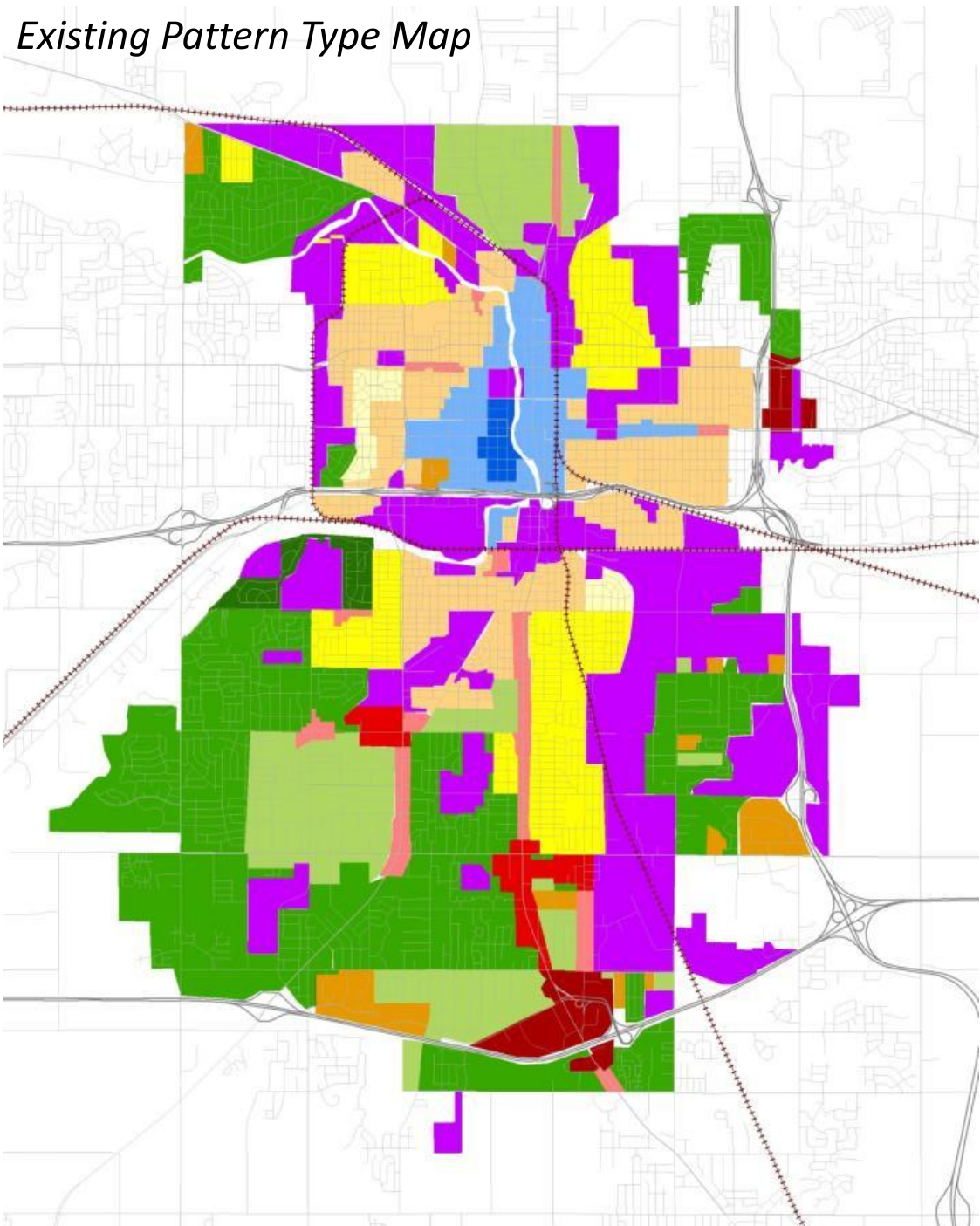


Virg Bernero, Mayor

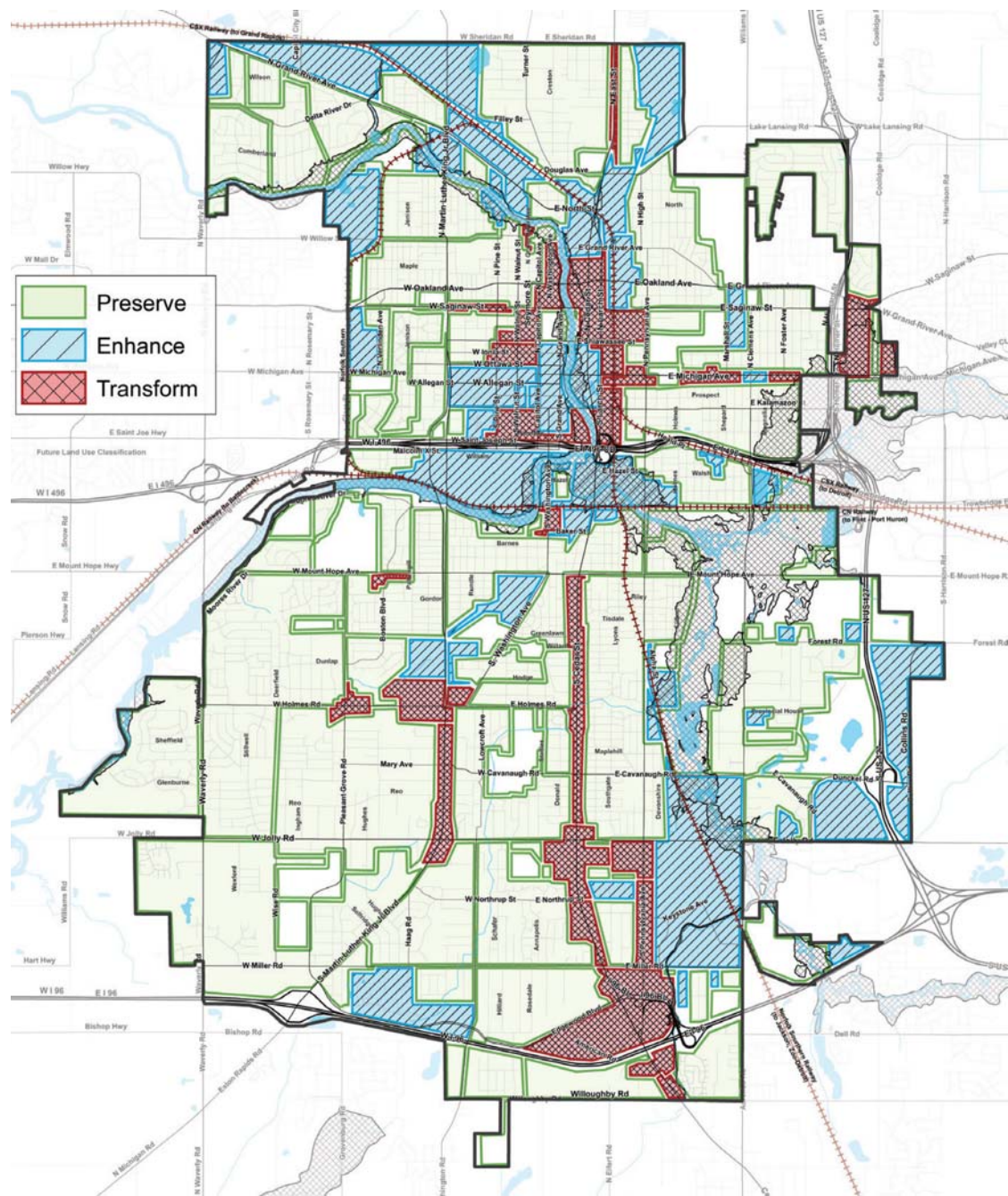
DESIGN LANSING 2012 COMPREHENSIVE PLAN

Design Lansing Demonstrated the Need for a Form-Based Code

Existing Pattern Type Map



Areas to Preserve, Enhance, Transform



Goals

- Minimal setback requirements, increased building heights, mixed uses, reduced parking minimums in commercial areas.
- Design standards to improve and protect community character.
- Pedestrian orientation of private development may create greater demand for amenities in the public realm.
- More intense use of private property may generate increased property tax revenues.



Conventional Zoning	Form-Based Codes
Use-based approach objective is to limit problems, negative language, verbose	Asserts and promotes a specific vision, More graphically-oriented
Zoning Districts, Rezonings	Districts and design based on Regulating Plan Design based on Street and Building types
Emphasis on uses/ rigid patterns/ building placement unpredictable (e.g. min setback)	Emphasis on building form/ how buildings fit the public realm (more consistent setbacks)
Limited uses, more districts	More mixed use districts
Limited design standards	Focus on building form and relationship to street right-of-way as public spaces
Minimum setbacks	Specific build-to lines
Focus on private site – few ROW standards	More attention on the streetscape

Benefits from a Community Perspective:

- Prevents undesirable development, or construction that is out of character with existing context
- Better assists in achieving a specific vision (i.e. Master Plan)
- More effective at transforming a site or district
- Can more adequately protect neighboring properties than conventional zoning
- Can be easier to understand (more graphic) with more predictable results.

Benefits from a Developer Perspective:

- Can speed up development review
- Can led to denser urban environments where appropriate
- Allows changes in use without rezoning or variances
- Predictable; provides certainty, which can help secure financing
- Design conversation gets out of the way before you submit projects for review (it's already established!)

(1) Incentives →
See above for details

	A	B	C	D
	DIMENSIONAL FLEXIBILITY	BUILDING HEIGHT	REDUCED PARKING	STORMWATER/ UTILITY
A Open Space	X			X
B Low-Impact Development	X			X
C Mixed-Use		X	X	
D Green Building	X	X		X
E Additional Landscape Elements	X			X
F Pedestrian Amenities	X		X	
G Shared Access			X	X
H Shared Public Parking		X	X	

Incentives

The **Michigan Economic Development Corporation** (MEDC), through its Redevelopment Ready Community program, assists Michigan cities with development of form-based codes to help stimulate desired redevelopment in urban areas.

MEDC generously provided financial support for the downtown districts portion of Lansing Form-Based Code.



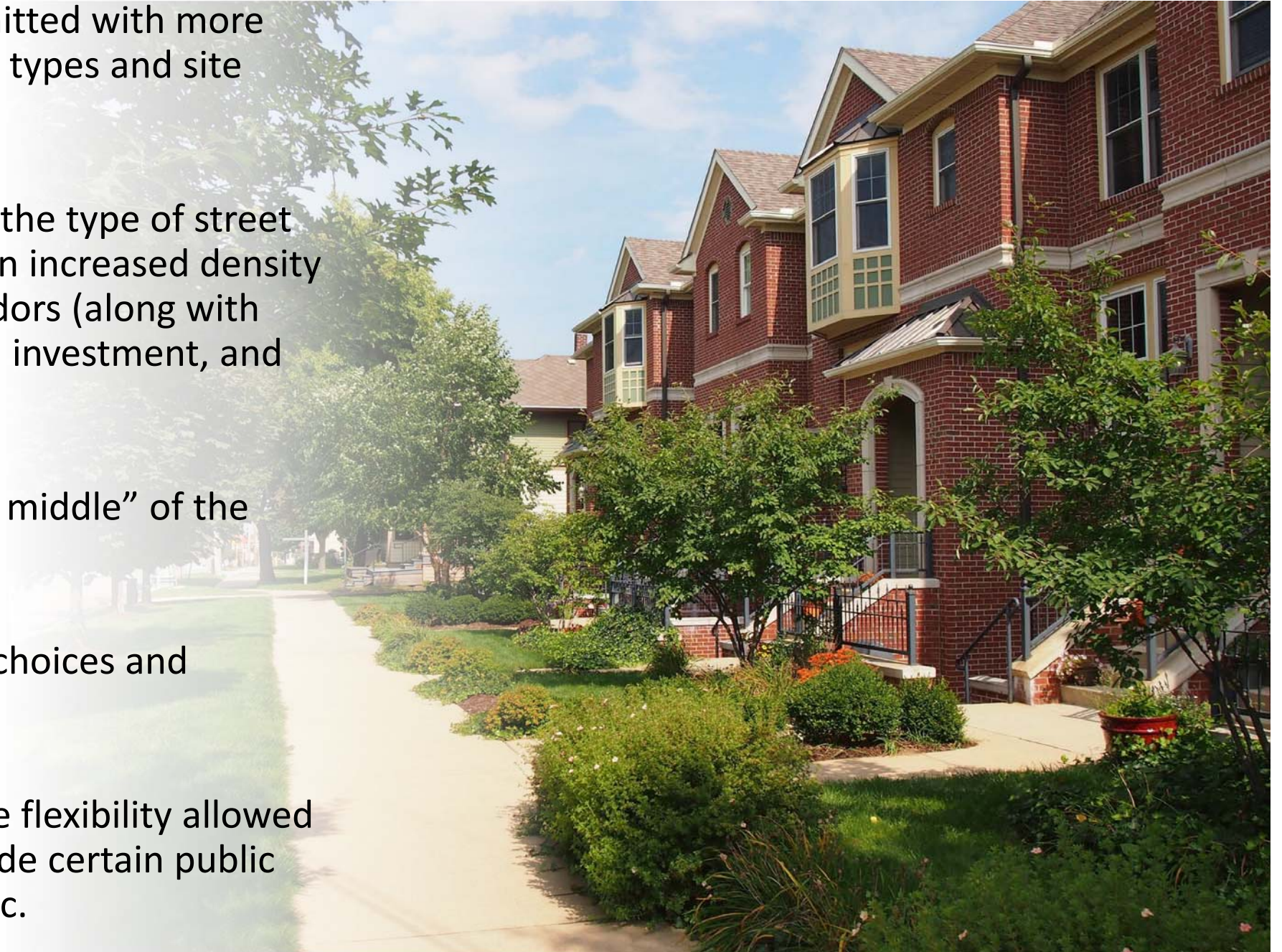
RRC-supportive principles:

- Clear community vision
- Mixture of uses
- Transparent, efficient review process
- Walkable, vibrant downtowns and corridors



Overall FBC Benefits

- Wider array of uses permitted with more emphasis on the building types and site design (form)
- Better aligns design with the type of street the site fronts, resulting in increased density along underutilized corridors (along with property value, return on investment, and tax base)
- Provides for the “missing middle” of the housing market
- Supports transportation choices and welcomes pedestrians
- Creates incentives – more flexibility allowed when the applicant provide certain public benefits/higher design etc.



MICHIGAN CITIES

- Grand Rapids (commercial districts)
- Birmingham (downtown district)
- Midland (edge of downtown)
- Traverse City (west front)
- Marquette
- Beverly Hills (corridor overlay)
- Hudsonville (downtown)

And more on the way . . .

- Mt. Pleasant
- Saginaw (riverfront)
- Dearborn (west downtown district)
- Ironwood
- Iron Mountain

NATIONALLY

- Leesburg, VA
- Arlington, VA
- Cincinnati
- Pittsburgh
- Champaign-Urbana, IL
- Nashville
- Buffalo
- Denver
- Portland
- Baltimore
- Seattle
- Miami
- Philadelphia



LANSING FBC

Introduction

Code Structure

Example Sections

PART I: Districts

- 1240 – Purpose & Definitions
- 1242 – Districts Generally and Zoning Map
- 1243 – Commercial Mixed-Use Districts
- 1244 – Residential Districts
- 1245 – Special Districts
- 1256 – Building Types

PART II: General Provisions

- 1250 – General Provisions
- 1252 – Landscaping
- 1254 – Parking

PART III: Approval

- 1260 – Site Plan Review
- 1262 – Special Land Use Permits
- 1264 – Planned Residential Developments

PART IV: Administrative

- 1270 – Nonconformities
- 1272 – Administration, Enforcement, and Penalty
- 1274 – Board of Zoning Appeals

Commercial/Mixed-Use Zones (1243)

SC	Suburban Commercial
MXC	Mixed Use Urban Corridor
MX1	Mixed Use Neighborhood Center
MX2	Mixed Use Community Center
MX3	Mixed Use District Center
DT-1	Urban Edge
DT-2	Urban Flex
DT-3	Downtown Core

Residential Zones (1244)

R-1	Suburban Residential
R-2	Suburban Residential
R-3	Suburban Residential
R-4	Urban Edge Residential
R-5	Urban Residential
R-6A	Urban Residential
R-6B	Urban Residential
MFR	Multi-family Campus Residential
R-MX	Mixed Residential
R-AR	Adaptive Reuse Residential

Special District Zones (1245)

IND-1	Suburban Industrial
IND-2	General Industrial
IND-3	Urban Industrial
INST-1	Suburban Institutional
INST-2	Urban Institutional

A – Check the Zoning District Map

- Review the district *intent*
- Check the list of *allowed uses* – including any *conditional or special permit uses*.
- Review the *site layout requirements*

Site Layout Requirements:

- Building massing (height, frontage, upper floor step backs)
- Building placement (setbacks, build-to-lines, lot coverage)
- Parking configuration & loading
- Other district specific items

B – Determine the Street Type

- Refer to the street typologies map

C – Apply Architectural Regulations

- Determine suggested building types
- Cross-reference against street type

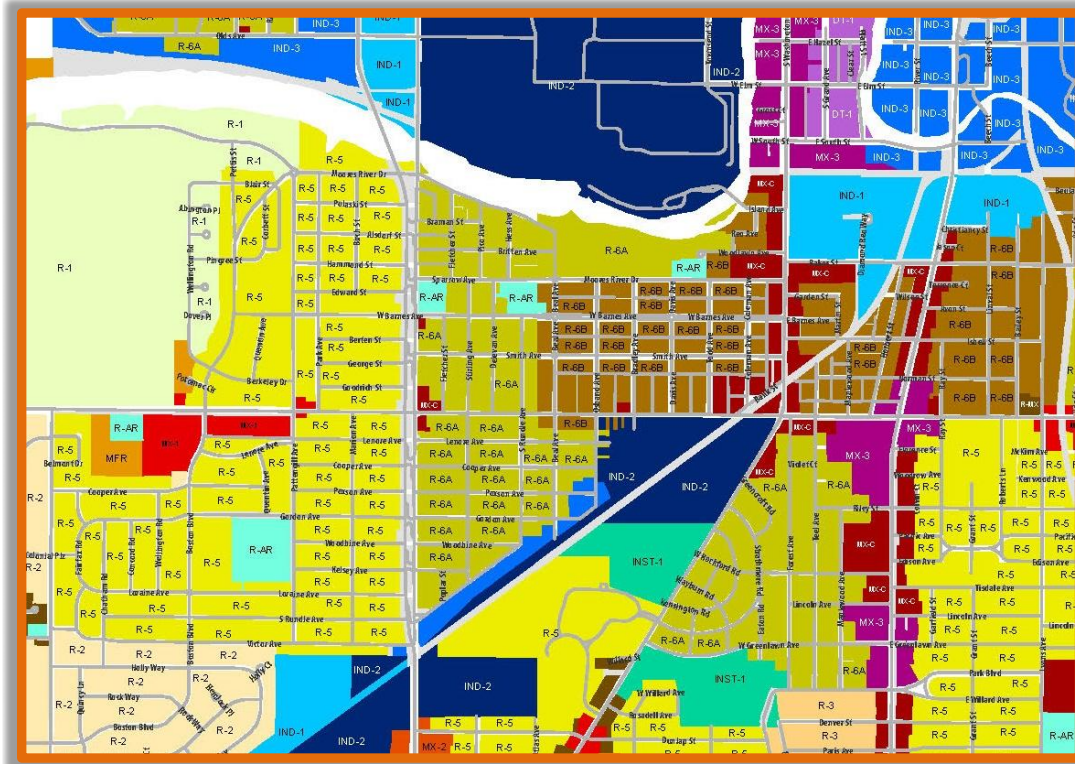
Architectural Regulations:

- Floor heights
- Window area (minimums)
- Primary / Secondary materials
- Roof types
- Building articulation
- Access & Services
- Suggested Building Types to meet the standards

<i>Building Type (example)</i>	<i>Arterial</i>	<i>Prime Connector</i>	<i>Neighborhood Connector</i>
<i>Townhouse</i>		X	X
<i>Flats / Lofts</i>	X	X	
<i>Mid-Rise</i>	X	X	
<i>Multi-Family</i>		X	X

New Zoning Map

- 1243 – Commercial Districts
- 1244 – Residential Districts
- 1245 – Special Districts (*Industrial & Institutional Zones*)

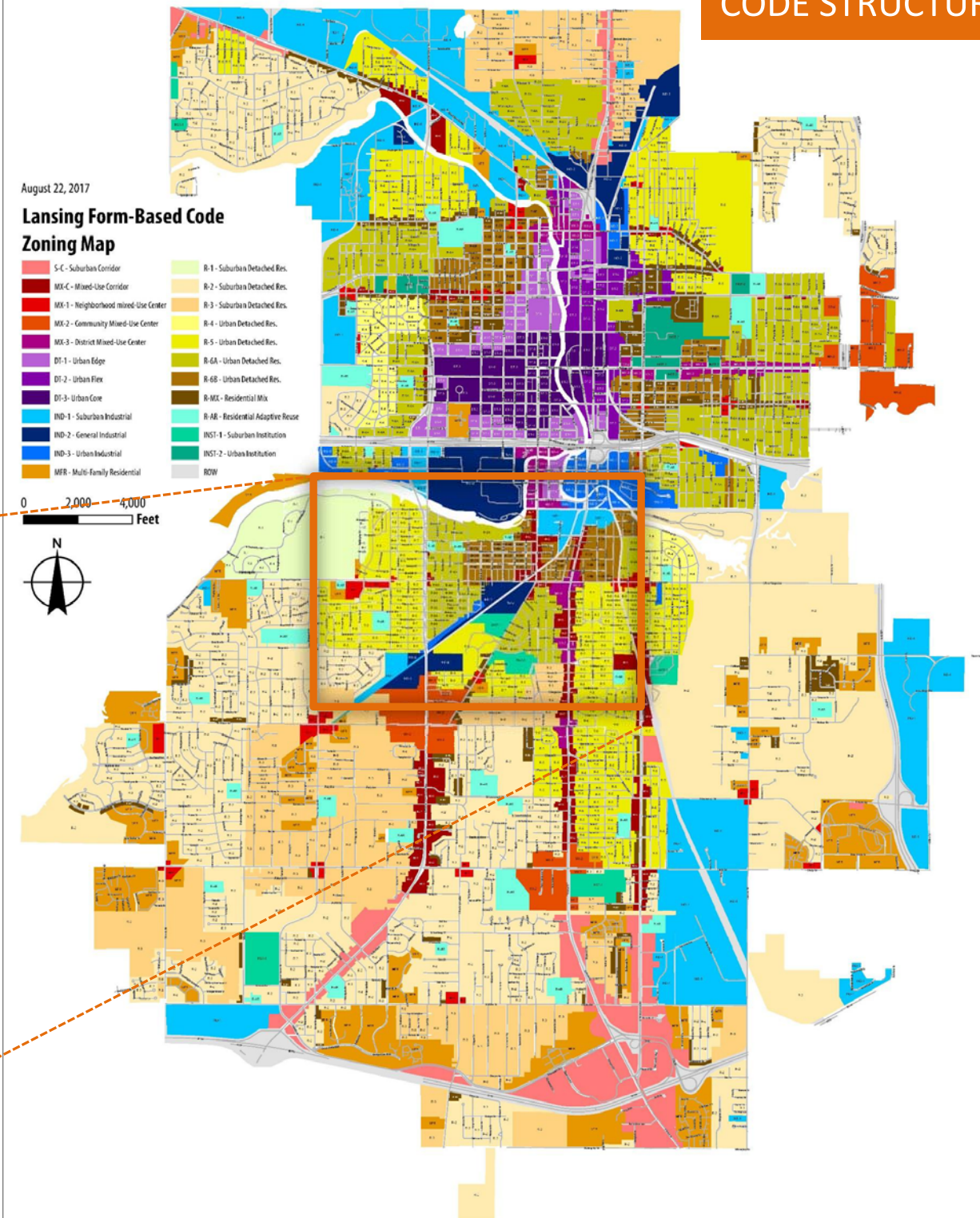


August 22, 2017

Lansing Form-Based Code Zoning Map

S-C - Suburban Corridor	R-1 - Suburban Detached Res.
MX-C - Mixed-Use Corridor	R-2 - Suburban Detached Res.
MX-1 - Neighborhood mixed-Use Center	R-3 - Suburban Detached Res.
MX-2 - Community Mixed-Use Center	R-4 - Urban Detached Res.
MX-3 - District Mixed-Use Center	R-5 - Urban Detached Res.
DT-1 - Urban Edge	R-6A - Urban Detached Res.
DT-2 - Urban Flex	R-6B - Urban Detached Res.
DT-3 - Urban Core	R-MX - Residential Mix
IND-1 - Suburban Industrial	R-AR - Residential Adaptive Reuse
IND-2 - General Industrial	INST-1 - Suburban Institution
IND-3 - Urban Industrial	INST-2 - Urban Institution
MFR - Multi-Family Residential	ROW

0 2,000 4,000 Feet



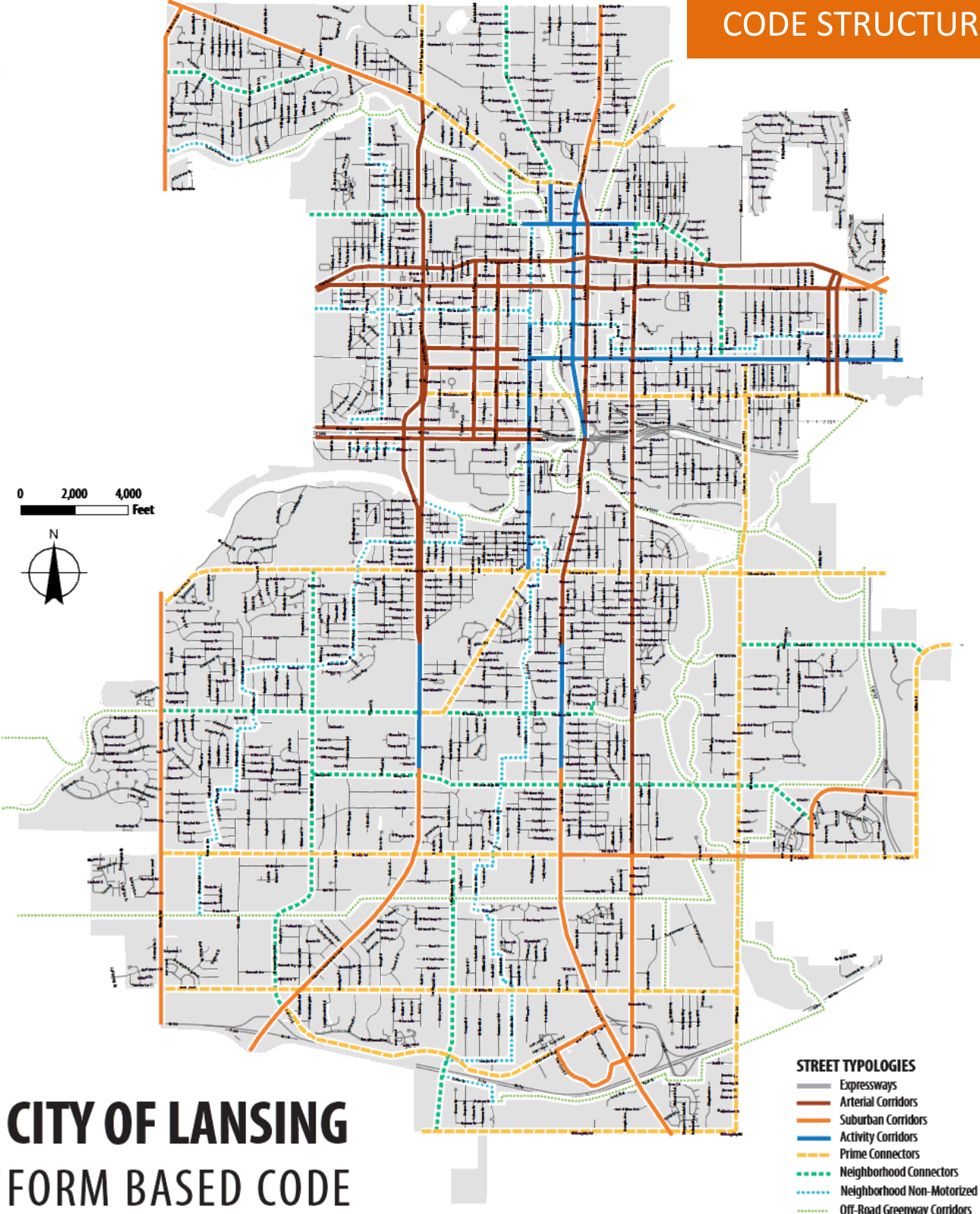
CODE STRUCTURE

Street Typologies developed in the master plan.

- *Desire to create an appropriate balance of activity and mix of land uses in relation to the type of street and modes of travel emphasized.*

STREET TYPOLOGIES

- Expressways
- Arterial Corridors
- Suburban Corridors
- Activity Corridors
- Prime Connectors
- Neighborhood Connectors
- Neighborhood Non-Motorized
- Off-Road Greenway Corridors



CITY OF LANSING
FORM BASED CODE

1246.04 Architectural Regulations

1246.04.01 General Architectural Standards

- (a) No part of any building may project forward of the build-to line except overhanging eaves, awnings, shopfronts, bay windows, stoops, steps, balconies, or handicapped ramps approved by the Zoning Administrator.
- (b) Stoops and Front Porches
 - (1) Shall not extend into the public right-of-way.
 - (2) All required front porches shall be completely covered by a roof.
 - (3) Front porches may be screened (insect screening) when all architectural elements (columns, railings, etc.) occur on the outside of the screen facing the street-space
 - (4) Finished floor height shall be no more than 8 inches below the first interior finished floor level of the building.
- (c) Awnings/Overhangs

When an awning or overhang is incorporated into a building, the following requirements must be met:

- (1) Minimum 10 feet clear height above sidewalk, minimum 5 feet depth out from the facade. Maximum projection to within 1 foot of back of curb where there are no street trees, or 1 foot into the tree-planting strip.
- (2) Canvas cloth or equivalent (no shiny or reflective materials).
- (3) Metal and glass are permitted, when configured as a marquee over an entrance.
- (4) No internal illumination through the awning/overhang.
- (5) Lettering on awnings limited to 6 inches tall on vertically hanging fabric at curb side of awning.
- (6) No one-quarter cylinder configurations.
- (7) Awnings and overhangs shall complement the fenestration pattern of the building facade.
- (d) Balconies:
 - (1) Shall not be located within 5 feet of any common lot line and shall not encroach into the public right-of-way.
 - (2) Balconies may be a single level or multiple balconies stacked vertically for multiple stories.
 - (3) Where Residential Districts include balconies as a method for achieving the required private open area, the balcony:
 - a. Shall be enclosed by balustrades, railings, or other means that block at least half of the view through them;
 - b. Shall not otherwise be enclosed above a height of 42 inches, except with insect screening and/or columns/posts supporting a roof or connecting with another balcony above; and
- (e) Windows
 - (1) Glass shall be clear, with light transmission at the ground story at least 90 percent and for the upper stories 75 percent (modification as necessary to meet any applicable building and energy code requirements).
 - (2) Ground story windows may not be made opaque by window treatments (excepting operable sunscreen devices within the conditioned space).
 - (3) A minimum of 80 percent of the ground story window surface shall allow a view into the building interior for a depth of at least 12 inches.

- Projections
- Fenestration (windows/doors)
- Building materials
- Façade articulation
- Example building types to meet the district and architectural standards

1246.04.03 COMMERCIAL / MIXED-USE BUILDING TYPES		
Second Floor Finish Elevation		14' min.
Upper Floors Clear Height		8' min.
Ground Floor Finish Elevation Above/Below Sidewalk		Max of 6" above adjacent sidewalk with ramp
Minimum Fenestration Percentage	Storefront 60%	
	Non-storefront Ground Floor 40%	
	Upper Floors 20%	
Allowed building materials on primary facades (i.e. facing onto a street)		Brick (masonry); stone; other similar materials as determined by Zoning Administrator
Allowed building materials on secondary facades (i.e. those not facing onto a street)		Same as primary facades, but also including decorative metal, wood; EIFS (on upper floors only); other similar materials as determined by Zoning Administrator
Roof Types		Pitched: between 4:12 and 12:12 slope
		Flat roof: with cornice and parapet
		All rooftop mounted HVAC and mechanical equipment shall be screened from view on all sides of the building.
Roof Materials (for pitched roofs)	Primary Material	Asphalt, fiberglass, tile, slate
	Accent Material (up to 25%)	Standing seam metal
Primary Facade Articulation		Walls over 30' in length must include design articulation, windows or recesses
Primary Facade Ground Floor Articulation		Ground floors shall be differentiated from the floors above by a horizontal expression line such as a string course, change in material or textures, awnings or canopies, or sign band.
Building Access		At least one entry must face onto and connect to the primary street. Secondary entries permitted from the side or rear. Maximum recessed entry of 5'..
Service		Services. Services and utility hookups shall not be visible from the primary street frontage, preferably located in the rear yard.



Detached Houses – 2 Story & 1 Story



Attached -Duplex / Triplex / Quadplex



**Attached Residential Multiplex
(4-12 units typically)**



Attached Townhouses



Attached Flats / Lofts



Storefront Mixed-Use (2-3 floors)



Mid-Rise (4-8 floors)
High-Rise (9+ floors)



Tower & Podium



Commercial Flex



Parking Structure



Suburban Commercial



Suburban Office/Research



Gas / Service Station
"Gas Backwards" Design



(Industrial described in applicable district)



LANSING FBC

Introduction

Code Structure

Example Sections

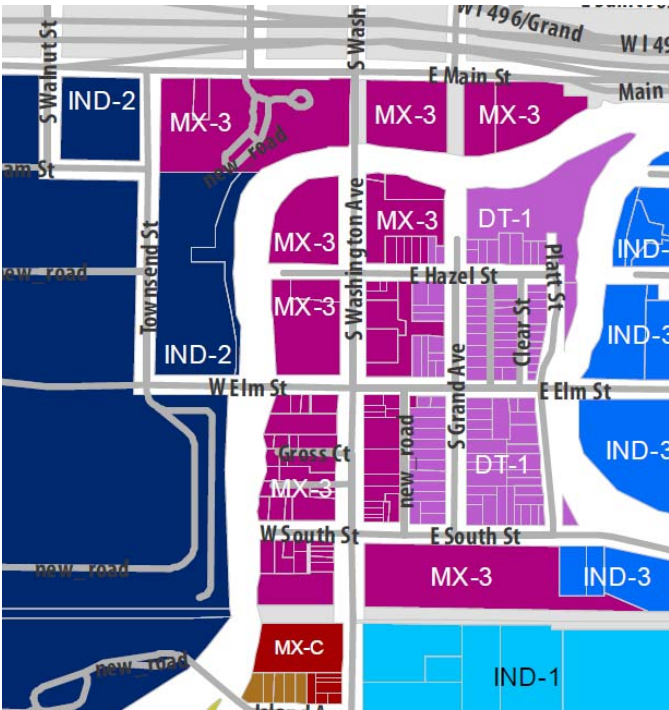
Use Table

P = Principal Permitted Use C = Conditional Use S = Special Land Use	SC	MX-C	MX-1	MX-2	MX-3	DT-1	DT-2	DT-3	Conditions
Group day care home (7 to 12 children less than 24 hours per day)	C	C	C	C	C	C	C		1. The facility provides and maintains on the lot not less than 900 square feet of outdoor play space. 2. The use of the structure as a group day care home shall be clearly incidental to the principal residential use. 3. One person, other than a member of the family residing in the dwelling, may be employed, so long as that person is not the primary caregiver. 4. No change occurs in the outside appearance of the dwelling. 5. No signs are permitted. 6. The outdoor play space shall be fenced. This requirement can be waived by approval of the Planning Office if the specified outdoor area is common open space shared with other dwelling units.
INSTITUTIONAL									
Places of Assembly	S	S	S	S	S	S	S	S	
Hospital	C	C	C	C	C	C	C	C	At least one property line abutting an arterial, suburban or activity corridor
Museum						P	P	P	
Library	P	P	P	P	P	P	P	P	
Park, open space, plaza (public or private)	P	P	P	P	P	P	P	P	
Schools			C		C	C	C		All education facilities, except elementary or middle schools, must have at least one property line abutting and all points of ingress/egress directly to an arterial, suburban or activity corridor
Trade school	C	C	C	C	C	C	C	C	
COMMERCIAL/OFFICE									
Retail sales and services	C	C	C	C	C		C	C	Permitted on non-local streets Permitted on local street only within 50' of a non-local street
Restaurant, bar, tavern	C	C	C	C	C		C	C	Permitted on non-local streets Permitted on local street only within 50' of a non-local street
Professional and business offices (e.g. doctor, lawyer, architect)	P	P	P	P	P	P	P	P	
Animal hospital	C	C	C	C	C	C	C	C	No kennels
Bank	P	P	P	P	P	P	P	P	
Brewpub	C	C	C	C	C		C	C	Permitted on non-local streets Permitted on local street only within 50' of a non-local street
Cemetery					S				
Clinic	C	C	C	C	C	C	C	C	At least one property line abutting and all points of ingress/egress directly to an arterial, suburban or activity corridor

- Uses by type by district
 - Permitted uses
 - Conditional uses
 - Special Land Uses

Example: MX-3

- Each section describes:
 - Intent
 - Suggested building types
 - Layout requirements
- MX-3
 - Example area: Michigan Avenue, REO Town, Old Town



1243.08 MX-3 Mixed-Use District Center



1243.08.01 MX-3 INTENT

The intent and purpose of the MX-3 district is to provide primarily a vertical mix of uses with higher density residential. Ground floor uses should be active and pedestrian focused. Development in this district is characterized by tall buildings lining urban streets near the City core. This district represents one of the City's highest intensity and density development because of its location near downtown and the pedestrian activity expected and desired.

1243.08.02 MX-3 BUILDING TYPES

The following building types are suggested to meet the intent of this district. The table at right shows which building types are suggested along the various street types in this district. Architectural regulations and Building Types are further described in CHAPTER 1246 – BUILDING TYPES.

SUGGESTED BUILDING TYPE	STREET TYPE				
	ARTERIAL CORRIDOR	SUBURBAN CORRIDOR	ACTIVITY CORRIDOR	PRIME CONNECTOR	NEIGHBORHOOD CONNECTOR
Attached Residential	-	-	-	-	X
Urban Mixed-use	X	X	X	X	X
Parking Structure	X	X	**	X	X
Gas & Service Stations	X	-	-	-	-

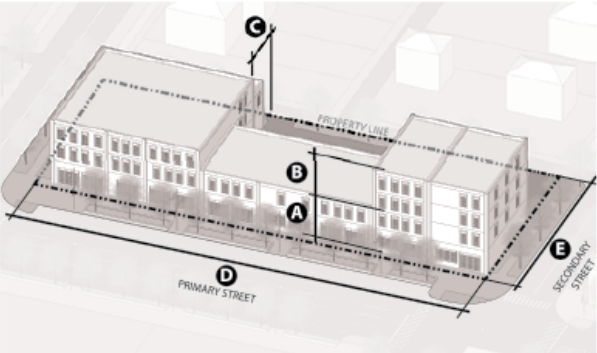
**First floor must be lined with non-parking uses. See Section 1243.03

Example: MX-3 (Michigan Avenue)

1243.08.03 MX-3 SITE LAYOUT REQUIREMENTS

(a) BUILDING MASSING		
-A-	Minimum Height	25' 1 story
-B-	Maximum Height	80' 6 stories
-C-	Required Upper floor Step-Backs - when adjacent to R-1 through R-6 districts	For the elevation adjacent to a residential district, the floors above the second story shall be tiered-back so that the highest point of the building is setback from the adjacent residential district a distance at least equal to the height of the building.
-D-	Minimum Frontage, Primary Street	85%
-E-	Minimum Frontage, Secondary Street	75%
	Required Corner Massing	When site is a corner lot, the primary and secondary frontages at the corner must be occupied by building elevations for the first 20 feet of each frontage from the corner.

See CHAPTER 1246 — BUILDING TYPES for dimensional standards



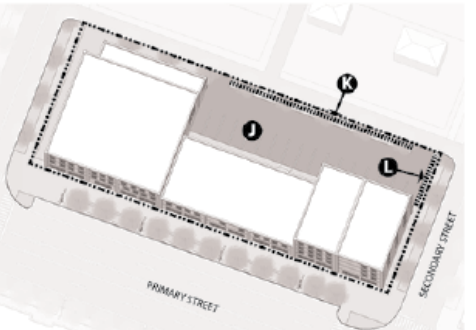
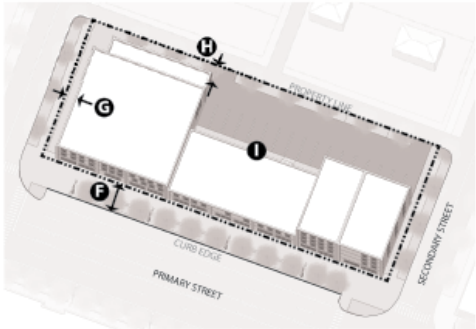
(b) BUILDING PLACEMENT

Sidewalks	8' minimum width required on all non-local street types. 5' minimum width required on local streets.
-F- Build-to line	Front property line or 15' from street curb, whichever is greater. Planning Office may approve a setback equal to the average setback of 50% of the buildings to be retained within the blockface. The applicant shall provide a map with those measurements.
-G- Minimum Side Setback	0'
-H- Minimum Rear Setback	0'
-I- Maximum Lot Coverage	100%
Minimum Setback from Adjacent Residential Districts	25' 6' opaque screenwall / fencing required along edge of residentially zoned or used property.

See Section 1250.04.01 for placement of accessory buildings.

(c) PARKING

-J- Allowed Surface Parking Locations	Municipal Parking On-Street Parking On-site: Side or rear yard, front yard only when corner lot on secondary streets
-K- Side and Rear Parking Lot Setback / Screening when adjacent to R-1 through R-6 districts	6' landscape buffer. Rear OR Side setback may be reduced to 5' with 3' opaque masonry wall
-L- Front Parking Lot Setback / Screening on Secondary Street Corners	5' with a 3' masonry knee wall at Build-to Line.
Required Parking Spaces	No parking required if adequate on-street and municipal parking is available Section 1254.01.04 for parking reductions
Parking Incentives / Bonuses	Shared parking, cross-access, driveway removal



What has changed?

- **Fewer special land uses**
- **Simpler review process**
- **Easier to use code**
- **Mixture of uses**
- **Revised parking standards**
- **Flexibility to implement vision**
- **Foster more walkable, transit-friendly community**

- **ADOPTION SCHEDULE**

- September 6: Developer Preview
- September 13: Lunch Preview
- September 13: Shaping the Avenue Workshop
- September 14: Ward 1 Preview Meeting
- September 19: Ward 4 Preview Meeting
- September 20: Ward 2 Preview Meeting
- September 21: Ward 3 Preview Meeting
- Final Editing
- October: Forward to Mayor for Council Action
(Council meetings subject to change)



LANSING FBC

THANK YOU



District Summaries

S-C Suburban Commercial



- Single tenant or strip commercial
- More emphasis on buffers/transitions to nearby residential districts
- More auto-oriented, one double-bay of parking in front allowed
- Mixture of uses still encouraged
- *Example area: South Cedar*

Minimum Height	Maximum Height
16'	40'
1 story	3 stories

MX-C Mixed-Use Urban Corridor



- Mixed-use encouraged but not required
- Buildings fronting the street
- One bay of front-yard parking allowed only along Suburban and Arterial Corridors
- *Example area: Saginaw at MLK*

Minimum Height	Maximum Height
25'	60'
1 story	5 stories

MX-1 Mixed-Use Neighborhood Center



- Neighborhood mixed-use nodes
- Buildings fronting the street
- Front-yard parking only allowed only along Suburban and Arterial Corridors
- *Example area: Pleasant Grove & Holmes*

Minimum Height	Maximum Height
25'	40'
1 story	3 stories

MX-2 Mixed-Use Community Center



- Mixed-use redevelopment of shopping centers
- Larger nodes of community mixed-use
- Buildings fronting the street
- *Example area: Logan Square or Frandor*

Minimum Height	Maximum Height (dependent on street type)
25'	60' / 40'
2 story	5 / 3 stories

MX-3 Mixed-Use District Center



- Dense, active, urban mixed-use close to Downtown
- Buildings fronting the street
- *Example area: Michigan Avenue, REO Town, Old Town*

Minimum Height	Maximum Height
25'	80'
1 story	6 stories

DT-1 Urban Edge



- Edge of Downtown
- Mixture of office and residential
- Retain historic houses / conversion to office uses
- Transition to nearby residential neighborhoods
- *Example area: Washington Ave. north of LCC*

Minimum Height	Maximum Height
25'	40'
2 story	4 stories

DT-2 Urban Flex



- Mixture of residential, commercial, industrial, entertainment
- Transitioning from older industrial and pockets of auto-oriented uses to mixture of uses and “warehouse district” vibe
- Activity Corridors with active storefront first-floor uses
- One bay of front-yard parking allowed
- *Example area: Cedar & Larch north of Shiawassee*

Minimum Height	Maximum Height (dependent on street type)
25'	60' / 40'
1 story	6 / 3 stories

DT-3 Downtown Core



- The heart of Downtown
- Highest density, tall buildings
- Walkable, mixture of uses with active storefronts
- *Example area: Washington Square & Michigan*

Minimum Height	Maximum Height
25'	none
2 story	

IND-1 Suburban Industrial



- Light to medium intensity industrial uses
- Research & Development, manufacturing, warehousing
- Suburban industrial park with greenbelts
- *Example area: Grand River Ave. near airport*

Minimum Height	Maximum Height
16'	45'

IND-2 General Industrial



- Wide range of industrial uses
- Warehousing, manufacturing, trucking terminals
- *Example area: GM Grand River Plant*

Minimum Height	Maximum Height
16'	60'



- Historic, urban industrial
- Multi-story industrial
- Office, research, manufacturing, lumber yards, heavy auto repair
- *Example area: Hazel Street Area (east of REO Town)*

Minimum Height	Maximum Height
16'	60'

INST-1 Suburban Institutional



- Campus district
- Education, government, medical facilities
- Supporting uses of office and attached residential
- Landscaped greenbelts
- *Example area: Ingham Co. Health Dept.*

Minimum Height	Maximum Height
16'	60'

INST-2 Urban Institutional



- Integrated into urban areas along corridors
- Education, government, medical facilities
- Walkable, mixed-use character
- *Example area: Sparrow Hospital on Michigan Ave.*

Minimum Height	Maximum Height
16'	60'

R-1 Suburban Residential



- Largest, lowest-density, single-family
- Unique architectural detail and quality
- *Example area: Moores River Drive / Frances Park area*

Minimum Height	Maximum Height
20'	35'
2 story	2.5 stories
Min. Lot Width	Min. Lot Size
60'	6000 sq. ft.

R-2 Suburban Residential



- Mid-century to modern subdivisions
- Medium-size lots, attached garages
- *Example area: Cavanaugh Park Neighborhood*

Minimum Height	Maximum Height
15'	35'
1 story	2.5 stories
Min. Lot Width	Min. Lot Size
50'	5000 sq. ft.

R-3 Suburban Residential



- Flexible, rural character
- Deep lots, variable setbacks
- *Example area: Pleasant View Park area*

Minimum Height	Maximum Height
15'	25'
1 story	2 stories
Min. Lot Width	Min. Lot Size
40'	4000 sq. ft.



- Historic homes (City Beautiful/Garden City movement)
- High-style historic architectural types (Tudor, Colonial Revival, Craftsman)
- *Example area: West side neighborhoods (east of MLK)*

Minimum Height	Maximum Height
20'	35'
2 story	2.5 stories
Min. Lot Width	Min. Lot Size
40'	4000 sq. ft.



- Mid-century bungalows
- *Example area: Knollwood Willow*

Minimum Height	Maximum Height
15'	25'
1.5 story	2 stories
Min. Lot Width	Min. Lot Size
40'	4000 sq. ft.



- Historic, urban neighborhoods
- R-6A: Single-family
- R-6B: multiple-family along corridors, still scale of detached houses (subdivided into multiple units)
- *Example area: Pleasant View Park area*

Minimum Height	Maximum Height
20'	35'
2 stories	2.5 stories
Min. Lot Width	Min. Lot Size
40'	4000 sq. ft.



- Highest residential densities
- Apartment complexes with campus character, shared open space
- *Example area: Georgetown Blvd*

Minimum Height	Maximum Height
15'	40'
1 story	4 stories



- Variety of housing types
- Along corridors and near downtown
- Transition to single-family detached
- *Example area: Pennsylvania Ave. north of Jolly*

Minimum Height	Maximum Height
20'	45'
2 story	4 stories



- Former school sites
- Contextual compatible reuse with surrounding neighborhoods
- *Example area: Genesee Elementary*

Minimum Height	Maximum Height
15'	Equal to adjacent residential
1 story	

BY THE COMMITTEE OF THE WHOLE
RESOLVED BY THE CITY COUNCIL OF THE CITY OF LANSING

RESOLUTION DECLARING OPIOID EPIDEMIC A PUBLIC NUISANCE

WHEREAS the use of narcotic drugs oxycodone, hydrocodone, methadone, fentanyl, codeine and others (hereinafter “Opioids”) has become a national epidemic of addiction and abuse in the United States that has led to carnage and destruction, including the loss of over 33,000 lives annually, the destruction of countless families and homes, and the incarceration of hundreds of thousands of addicts who have turned to crime in order to support their addictions; and

WHEREAS the State of Michigan has been particularly impacted by this national epidemic and is the 10th leading state in the country in 2016 for Opioid usage as measured by per capita prescription utilization according to the *U.S Center for Disease Control (“CDC”) Annual Surveillance Report of Drug Related Risks and Outcomes*; and

WHEREAS the City of Lansing has been uniquely and disproportionately impacted by the scourge of Opioid addiction, with the Ingham County Health Department identifying three geographic areas within the City as “hot spots” with particularly high levels of opioid addiction requiring elevated levels of emergency response to Opioid overdoses; and

WHEREAS Lansing emergency responders have administered Narcan, a drug used for the treatment of Opioid overdoses, an alarming 243 times between January 1, 2016 and December 15, 2016 alone, and the City has regrettably had to respond to an Opioid overdose on a nearly daily basis (and sometimes several overdoses per day) in 2017; and

WHEREAS the Lansing Police Department estimates that the Opioid epidemic has led to increased enforcement costs of \$748,995.75 in the last three years, and the Lansing Fire Department estimates that in the last year they have directly incurred costs amounting to \$107, 775; and

WHEREAS the Lansing City Council has heard additional presentations and testimony from officials within the Lansing Police Department and Fire Department, which are incorporated by reference as part of the record upon which this resolution is based; and

WHEREAS the epidemic of Opioid abuse as stated herein and in the testimony and presentation of city officials, and as experienced on a daily basis by the citizenry of the City of Lansing, establishes that the epidemic significantly interferes with the public's health, safety, peace, comfort and convenience; and

WHEREAS the manufacturers of Opioids know, or should know, that the overprescribing of Opioids, as encouraged by the manufacturers' deceptive and irresponsible marketing and distribution conduct, has led to the Opioid epidemic as described in this resolution and as witnessed on a daily basis by the emergency responders, law enforcement personnel, emergency room treaters, incarceration officers, substance abuse counselors, family members and victims of the addicted; and

WHEREAS the wholesale distributors of Opioids know, or should know, that the irresponsible distribution of Opioid products has contributed to the illegal diversion of Opioid product and has similarly led to the Opioid epidemic as described in this resolution and as witnessed on a daily basis by the emergency responders, law enforcement personnel, emergency room treaters, incarceration officers, substance abuse counselors, family members and victims of the addicted; and

WHEREAS the conduct of the manufacturers and wholesale distributors, as described herein, is proscribed by the common law of public nuisance as well as by federal and Michigan law governing deceptive conduct, marketing and distribution of narcotics.

NOW THEREFORE BE IT RESOLVED that the Lansing City Council hereby declares that the continued conduct of manufacturers and wholesale distributors of Opioid products as it relates to their irresponsible marketing and distribution of such products has materially contributed to the Opioid epidemic which is, and if left unabated, will continue to be, a PUBLIC NUISANCE that needlessly destroys the lives of countless individuals and their families, the neighborhoods in which they live and conduct their activity, and is a continual threat to the public health, safety, peace, comfort and convenience of the Lansing citizenry; and

BE IT FURTHER RESOLVED that the Opioid epidemic as described herein has resulted in tangible and calculable material costs to the City of Lansing and its taxpayers, including but not limited to increased emergency response costs, law enforcement intervention costs, and incarceration costs; and

BE IT FURTHER RESOLVED that the Lansing City Attorney, through special counsel that he is hereby authorized to retain, is encouraged to engage in all appropriate enforcement activities to abate the public nuisance as declared herein and to seek compensation for the costs imposed upon the City and its taxpayers, as well as any other appropriate legal, equitable and injunctive action including the institution of lawsuit(s) against Opioid manufacturers and wholesale distributors.

BY THE COMMITTEE OF THE WHOLE
RESOLVED BY THE CITY COUNCIL OF THE CITY OF LANSING

RESOLUTION TO APPROVE OUTSIDE COUNSEL FOR OPIOID
LITIGATION

WHEREAS the City of Lansing desires legal representation in national litigation that is being waged against manufacturers and wholesale distributors of opioids; and

WHEREAS the participation in such national litigation requires specialized expertise; and

WHEREAS Chapter 4-304 of the Lansing City Charter envisions that City Council approve the retention of special counsel in any matter relating to the affairs of the city; and

WHEREAS the City Council has reviewed the qualifications of Weitz & Luxenberg PC, the Sam Bernstein Law Firm PLLC and Church Wyble PC, a division of Grewal Law PC, and believes that those firms collectively possess outstanding experience and qualifications to represent the City's interests as it relates to the opioid epidemic.

NOW THEREFORE BE IT RESOLVED that the City Council approves the firms of Weitz & Luxenberg PC, the Sam Bernstein Law Firm PLLC and ChurchWyble PC, a division of Grewal Law PC, as special counsel to represent the interests of the City, in consultation with the Lansing City Attorney, in litigation concerning the opioid epidemic.



Chris Swope
Lansing City Clerk

August 28, 2017

City Council President and Members of the Lansing City Council
10th Floor, City Hall
Lansing, MI 48933

Dear Councilmembers:

The City of Lansing Memorial Review Board voted on August 15 to approve the renaming of East and West Grand River to Cesar E. Chavez Avenue.

The application submitted as well as letters and petitions in support and letters in opposition are available for review at <http://www.lansingmi.gov/1401/Documents-Placed-on-File>

Per the Lansing City Ordinance [Chapter 1034 Naming and Renaming of Public Memorials](#), City Council “shall within 90 days” approve or deny the renaming sought in the enclosed application after holding a public hearing.

Sincerely,

Chris Swope, CMMC/CMC
Lansing City Clerk

Lansing for César E. Chávez Committee
P.O. Box
Lansing, MI 48909
August 10, 2017

Mr. Chris Swope, City Clerk
City of Lansing
124 W. Michigan Ave., 9th Floor
Lansing, MI

Dear Mr. Swope:

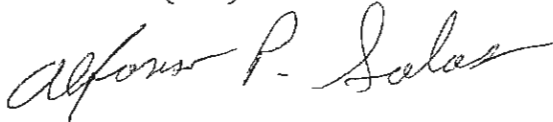
Re: *Application for Renaming portions of East Grand River and West Grand River to César E. Chávez Ave.*

The Lansing for César E. Chávez Committee submits the attached Application for Naming and Renaming Memorials in the City of Lansing, Michigan in support of renaming portions of East Grand River Avenue and West Grand River Avenue to César E. Chávez Ave. Specifically, the application requests that East Grand River Avenue commencing at Oakland Avenue and ending at Washington Avenue and West Grand River Avenue commencing at Washington Avenue and ending at Pine Street be renamed César E. Chávez Avenue. The street name change will specifically impact approximately 150 Lansing residents and businesses, the majority of which overwhelmingly support the change. The basis and significance of the proposed street name change is addressed in the application.

The Lansing for César E. Chávez Committee is committed to honoring César E. Chávez in the City of Lansing with a permanent street renaming, as well as continuing his humanitarian efforts in the greater Lansing community. City-wide, many Lansing residents support this change as evidenced by the petitions submitted with the application and their "Si Se Puede" words of encouragement.

Please find the attached application and required documents for review and submission to the appropriate City of Lansing boards or committees along with a check for the estimated cost of mailing notice to owners of all properties with mailing addresses on the subject streets and on corners, which intersect the subject streets. If more information or documentation is needed to consider the application please contact me at: (517)775-2442.

Sincerely,



Al Salas
Vice Chair, The Lansing for César E. Chávez Committee

RECEIVED
2017 AUG 10 PM 2:40
LANSING CITY CLERK



Application for Naming and Renaming Memorials In the City of Lansing, Michigan

Proposed name: César E. Chávez Avenue

Basis and significance of proposed name: César E. Chávez dedicated his life to nonviolent social change, justice, equality and humane treatment for all. César E. Chávez marched to Lansing in the 1970's to highlight the deplorable living conditions of agriculture workers in the State of Michigan. He met with legislators and was instrumental in initiating regulations and laws to improve the living conditions of farm workers throughout Michigan. The Lansing César E. Chávez Committee is requesting the name of an American hero on one of the City's major streets as a way of honoring a man who dedicated his life to the struggle for justice and equality for all Americans. His contributions have been recognized in hundreds of cities across the country. He, like Mahatma Gandhi, Martin Luther King Jr., Mother Teresa and others understood the meaning of non-violent social change and used it to elevate the human condition among one of the most vulnerable segments of American society. César E. Chávez was a leader and organizer who founded the first successful farm workers labor union in American history. His mission was to affirm the dignity of farm workers and to ensure fair wages, medical coverage, benefits, and humane living and workplace conditions for millions of Americans. César E. Chávez inspired millions of Americans and was awarded the U.S. Presidential Medal of Freedom, America's highest civilian honor, and the Martin Luther King Jr. Peace Prize. His philosophy, "Si se Puede" or "Yes We Can" influenced millions of Americans to seek economic and social equality beginning in the 1960's and that philosophy remains alive and well today. Chávez served in the United States Navy during World War II, during which millions lost their lives. After his military service he dedicated his life to advancing and improving the lives of all farm workers and all oppressed people in the United States and the world. As described by Senator Robert F. Kennedy, César E. Chávez is "one of the heroic figures of our time."

Lansing, Michigan has been home for thousands of farm workers, many of whom were Latino and Hispanic as early as the 1940's. The north side of Lansing became the home, heartbeat and center for the growing Latino and Hispanic community, which included migrant farm workers and factory workers. Latino and Hispanic businesses and community activity was concentrated and established in the East and West Grand River Avenue area such as El Renacimiento, a bilingual community newspaper, restaurants (Ramon's, Torres's), Cristo Rey Church, Cristo Rey Community Center, and Quinto Sol newspaper and radio station, to name a few. César E. Chávez personal connection to this community occurred when he visited the Lansing community and other Michigan cities in the late 60's and 70's to organize farmworkers. He also led a march from Saginaw to Lansing to highlight the plight of farm workers and to request legislative changes to improve the conditions of farmworkers in Michigan. The renaming of East Grand River Ave and West Grand River Avenue to César E. Chávez Avenue, honors not only one of the great leaders of the Latino and Hispanic community, but a man who became an American hero to all.

Object, site, or street to be named or renamed: Portions of East and West Grand River Avenue, specifically: East Grand River Avenue beginning at Oakland Avenue to Washington Avenue and West Grand River Avenue beginning at Washington Ave to Pine Street. The proposal is to rename these streets César E. Chávez Avenue.

Current name (if applicable): East Grand River Avenue and West Grand River Avenue

Impact on residents: The effect of the proposed name change upon the affected residents is being received favorably. There are approximately 60-80 residents on this portion of East Grand River Avenue and West Grand River Avenue that will be directly affected. Many if not all of them have signed petitions in support of the name change. Some residents claimed the name change would be a great benefit because it will eliminate confusion with East Grand River in East Lansing. Other residents stated that they thought the "honorary" designation was temporary like the changing of Logan Street to Martin Luther King, Jr. Blvd. Lansing residents throughout the city also support the change, as evidenced by the attached petitions and letters of support. The proposed street name change has received a positive response from citizens of Lansing representing all walks of life, including from a broad range of ethnic and economic backgrounds. The effort has united many citizens of Lansing to work together for the betterment of the City. They see the name change as a vehicle to promote understanding of American values and history and to unify citizens. Honoring César E. Chávez in this way will demonstrate that Lansing, Michigan is a city that stands for diversity and promotes the importance of tolerance and inclusion.

Impact on businesses: The effect of the proposed name change upon the affected businesses is primarily favorable. Many of the businesses currently on what is now East and West Grand River Avenue have expressed a positive response to the street name change. Another significant effect is the attracting of business and commerce in that area. Two businesses have been identified and have made it known that the changing of East Grand River Avenue to César E. Chávez Avenue has encouraged them to open new businesses within the area resulting from the proposed street name change. As stated above, in terms of a social effect, it will illustrate that Lansing, Michigan is a city that believes in the power of inclusion and understands the importance of diversity and building communities that are welcoming of Americans from diverse backgrounds. The Lansing for César E. Chávez Committee recognizes business owners may incur costs as a result of the name change for stationary and literature. In 2010, the Old Town Commercial Association, which represents some of the businesses, raised the financial cost as a basis for opposition. At that time, it was recommended that a gradual name change process be considered to minimize costs and provide time to deplete their stationary and literature inventory until the street name is officially changed. Moreover, the businesses would incur a one time only cost as part of the normal procedure for reordering stationary with the new street name. The 2010 "honorary" designation of César E. Chávez Avenue to East Grand River Avenue provided the businesses an opportunity to use both names on their stationary and literature to assist in a smooth transition. The Lansing for César E. Chávez Committee proposes to negotiate a discounted group rate for printing of new stationary with a local print shop to help absorb some of the cost for the business owners on Grand River Avenue. Also, many businesses rely primarily on websites, which can be easily modified, with little or no cost.

Projected implementation cost if application is approved: Minimal to the city. Approximately, thirty (30) street signs must be replaced changing East Grand River Avenue and West Grand River Avenue to César E. Chávez Avenue. According to Andrew Miller traffic design specialist in the Transportation Division of the Public Service Department, replacement and installation costs are approximately \$81.66 per ground mounted sign and \$131.31 per traffic signal pole mounted signs. Mr. Chris Swope, Lansing City Clerk, previously anticipated a cost of \$117.00 for mailing notification to the area businesses and residents. The City should be able to absorb the minimal costs for changing the street signs. If necessary, Lansing César E. Chávez Committee will contribute funds to pay for the implementation costs associated with the street signs. Payment for mailing notification to owners of all properties with mailing addresses on these streets has been submitted with this application.

Proposed funding: City to absorb the costs or the Lansing César E. Chávez Committee will contribute funds for the signs. No additional funds will be needed after street signs replaced.

Anticipated support and/or opposition to the proposal. It is anticipated that there will be general support for the naming of portions of East Grand River Avenue and West Grand River Avenue after César E. Chávez, a formidable humanitarian that contributed to improving conditions for all Americans, not

just the farm workers. Petitions and letters attached to the application demonstrate support from individuals, churches, agencies and organizations.

There has been nominal opposition to the street name change from the Old Town Commercial Association (OTCA) and a few of its members. OTCA opposed the change in 2010 and maintains its opposition now. Notably, the majority of OTCA members do not have businesses on East and West Grand River Avenue and only a few of the businesses on East Grand River fall within the boundary designation of "Old Town" as defined by the city of Lansing. Generally, however, "Old Town" is recognized as an area located in the north side of Lansing. Initially, many of the businesses in Old Town signed the 2017 petitions to support the name change and individually explained the basis for their support. An organized effort by OTCA to oppose the name change resulted in a few businesses changing their position and citing the devaluing of Old Town if the street was named César E. Chávez Avenue. Notice of these position changes has been informal, but formal notices will be provided upon receipt. Opponents of this change may not fully know or understand César E. Chávez's local, state and national achievements and contributions to our state and nation. Clearly, the renaming of the street to César E. Chávez Avenue would result in Lansing being celebrated for recognizing this humanitarian leader and renaming the street César E. Chávez Avenue.

If the Proposed Memorial involves changing a street name, this application must be accompanied by payment for the estimated cost of mailing notice to owners of all properties with mailing addresses on the subject street and on corners which intersect the subject street.

Applicant's Name: The Lansing for César E. Chávez Committee Date: August 10, 2017

Applicant's Address: P.O. Box 27072

City Lansing State: MI Zip: 48909

Main Contact Number: (517)775-2442 Secondary Contact Number: (517)327-8828

If you have questions please call: 517-483-4131

When you are done with this form, please return it to: Chris Swope, City Clerk
Lansing City Clerk's Office

Ninth Floor, City Hall, 124 W. Michigan Ave., Lansing, MI 48933-1695 clerk@lansingmi.gov



DRAFT

Memorial Review Board

City of Lansing

Tuesday, August 15, 2017, 6:15 P.M.

**SOUTH WASHINGTON OFFICE COMPLEX
City Clerk's Election Unit
2500 South Washington**

DRAFT MINUTES

1. Call to Order at 6:25 p.m. by Chairperson Enriquez

A. Roll Call

Members Present:

Linda Appling, Vice Chairperson

Maria Enriquez, Chairperson

Chad Rogers (Left at 6:50 p.m. with prior notice.)

Maria VanCore

Absent:

Willie D. Davis, Jr.

A quorum was present

2. Approval of the Agenda

Moved by Mr. Rogers to approve with changes noted. Public comment was moved to be taken up next.

MOTION CARRIED

3. Public Comment

Francisca Garcia spoke in favor of the application for renaming portions of East Grand River and West Grand River to Cesar E. Chavez Ave.

Paula Gardillo spoke in favor of the application.

Ignacio Andrade spoke in favor of the application.

Margarito J. Garcia spoke in favor of the application.

Elias Ferreyra spoke in favor of the application.

Frank Trevino spoke in favor of the application.

Aura Ozburn spoke in opposition to the application.

Rafael Martinez spoke in favor of the application.

Derrick Quinney spoke in favor of the application.

Alfonso Salais, Jr., spoke in favor of the application.

Marisol Garcia spoke in favor of the application.

Alejandro Salais spoke in favor of the application.

Jamie Schriener spoke in opposition to the application.

Vanessa Shafer spoke in opposition to the application.

Jody Washington spoke in favor of the application.

Al Salas spoke in favor of the application.

Mike Bass spoke in opposition to the application.

Gina Salas spoke in favor of the application.

Lansing City Clerk's Office

Ninth Floor, City Hall, 124 W. Michigan Ave., Lansing, MI 48933-1695

517-483-4131 517-377-0068 FAX

City.clerk@lansingmi.gov • www.lansingmi.gov/clerk

4. Communications

As Angela Moore is no longer a Lansing resident, she is not eligible to serve on the Board.

5. Business Session

A. Approval of Minutes

Moved by Ms. VanCore to approve minutes of 5/9/17, 4/11/17, 1/10/17, 6/14/16, 4/12/16, 3/15/16, 2/19/16, 1/12/16, 12/8/15, 11/10/15, 10/13/15

MOTION CARRIED

B. Old Business

Moved by Ms. VanCore to approve the new Application for Naming and Renaming Memorials

MOTION CARRIED

C. New Business

Election of Chairperson & Vice Chairperson No action taken.

Moved by Ms. VanCore to recommend to City Council approval of the Application for Renaming Portions of East Grand River and West Grand River to Cesar E. Chavez Ave. as submitted.

MOTION CARRIED

6. Adjournment at 7:43 p.m.

BY THE COMMITTEE OF THE WHOLE
RESOLVED BY THE CITY COUNCIL OF THE CITY OF LANSING

WHEREAS, the Memorial Review Board received an application from the Lansing for Cesar E. Chavez Committee requesting authorization for the establishment of a permanent memorial street name change from East Grand River Avenue beginning at Oakland Avenue to Washington Avenue and West Grand River Avenue beginning at Washington Avenue to Pine Street to Cesar E Chavez Avenue; and

WHEREAS, the Memorial Review Board made a recommendation to the Committee of the Whole to approve the request for the street name change from East Grand River Avenue beginning at Oakland Avenue to Washington Avenue and West Grand River Avenue beginning at Washington Avenue to Pine Street to Cesar E Chavez Avenue; and

WHEREAS, the Lansing City Clerk and the Planning and Neighborhood Development Department did a notification for a Public Hearing prescribed by the Ordinance; and

WHEREAS, in accordance to Chapter 1034.90 of the Code of Ordinances, a public hearing was held on October 23, 2017 in consideration of the memorial proposal to rename East Grand River Avenue beginning at Oakland Avenue to Washington Avenue and West Grand River Avenue beginning at Washington Avenue to Pine Street to Cesar E Chavez Avenue; and

WHEREAS, the Committee of the Whole received information from the U.S. Postal Office that the transition period established by the Post Office would be two years from the date of notification to their offices. The time could be extended if determined necessary.

NOW, THEREFORE BE IT RESOLVED the transition period for the renaming will be two years from the notification to the U.S. Post Office in Lansing, Michigan.

BE IT FURTHER RESOLVED that the Lansing City Council approves the establishment of a permanent memorial street name change from East Grand River Avenue beginning at Oakland Avenue to Washington Avenue and West Grand River Avenue beginning at Washington Avenue to Pine Street to Cesar E Chavez Avenue.

RESOLUTION #2017-__
NOTICE OF INTENT TO ISSUE BONDS
FOR PUBLIC SERVICE DEPARTMENT
COMBINED SEWER OVERFLOW CONTROL PROJECT

CITY OF LANSING
(Ingham and Eaton Counties, Michigan)

WHEREAS, the State of Michigan Department of Environmental Quality has required, consistent with National Pollutant Discharge Elimination System (NPDES) Permit No. MI00234000, the City of Lansing (the "City") to abate combined sewer overflows from its combined sewer collection system; and

WHEREAS, Act 320, Public Acts of Michigan, 1927, as amended, repealed and recodified by Part 43 of Act 451, Public Acts of Michigan, 1994, as amended ("Act 451") enables a City to issue and sell bonds to finance construction of improvements required by a permit or order issued by the State of Michigan Department of Environmental Quality; and

WHEREAS, the City Council of the City intends to authorize the issuance of Limited Tax General Obligation Bonds pursuant to Act 451 in one or more series at an estimated interest rate of 2.50% and in an aggregate amount not to exceed \$13,000,000 for the purpose of financing a combined sewer overflow (CSO) control / sewer separation project, the CSO 034C Project; as further described in plans on file with the City related to the Wet Weather Control Program State Revolving Fund Project Plan, which Bonds will be payable from funds lawfully available to the City for this purpose such as revenues derived from the operation of the City's Sewage Disposal System, special assessments, general fund monies and ad valorem taxes pursuant to a pledge of the City's limited tax full faith and credit; and

WHEREAS, Notice of Intent to Issue Bonds must be published at least forty-five (45) days before the issuance of the same in order to comply with the requirements of Section 5(g) of Act 279, Public Acts of Michigan, 1909, as amended; and

WHEREAS, the City must appoint bond counsel for the issuance of the Bonds; and

WHEREAS, prior to issuance of each series of Bonds the City must (i) receive prior approval of the Bonds from the Michigan Department of Treasury (ii) be granted qualified status as provided in Act 34, Public Acts of Michigan, 2001, as amended;

NOW, THEREFORE, BE IT RESOLVED THAT:

1. The City Clerk is hereby authorized and directed to cause a Notice of Intent to Issue Bonds to be published, on or before November 15, 2017, in the LANSING CITY PULSE, or other newspaper of general circulation in the City, as a display advertisement at least ¼ page in size.
2. Said Notice of Intent so published shall be in substantially the following form:

OFFICIAL NOTICE TO ELECTORS AND TAXPAYERS
OF THE CITY OF LANSING
OF INTENT TO ISSUE BONDS SECURED BY THE TAXING
POWER OF THE CITY AND RIGHT OF REFERENDUM THEREON

PLEASE TAKE NOTICE that the City Council of the City of Lansing, Counties of Ingham and Eaton, Michigan, intends to authorize the issuance of Limited Tax General Obligations Bonds of the City in one or more series in an aggregate principal amount not to exceed \$13,000,000 for the purpose of financing the CSO 034C Project as further described in plans on file with the City (the "Improvements"), related to Wet Weather Control Program State Revolving Fund Project Plan and required by the ACO. Said Bonds shall mature in not to exceed thirty (30) annual installments with interest payable on the unpaid balance at an estimated interest rate of 2.50%, to be conclusively determined at the time of the sale of the Bonds.

SOURCE OF PAYMENT OF BONDS

The principal and interest of the Bonds shall be payable primarily from funds lawfully available to the City for this purpose such as revenues derived from the operation of the City's Sewage Disposal System, special assessments, general fund monies and ad valorem taxes pursuant to a pledge of the City's limited tax full faith and credit. Ad valorem taxes may not be levied in excess of the City's charter tax rate limitation for this purpose.

RIGHT OF REFERENDUM

The Bonds will be issued without vote of the electors unless a PETITION requesting an election of the question of issuing the Bonds signed by not less than TEN PERCENT (10%) OF THE REGISTERED ELECTORS in the City is filed with the City Council by deposit with the City Clerk WITHIN FORTY-FIVE (45) DAYS after publication of this Notice. If such a petition is filed, the Bonds cannot be issued without an approving vote by a majority of electors voting on the question.

This Notice is given pursuant to the requirements of Section 5(g) of Act 279, Public Acts of Michigan, 1909, as amended. Further information concerning the matters set out in this Notice may be secured from the City Clerk's Office.

Chris Swope,
City Clerk

3. The City Council hereby determines that the foregoing form of Notice of Intent to Issue Bonds and the manner of publication directed is adequate notice to the electors and taxpayers of the City and is well calculated to inform them of the intention of the City to issue the Bonds, the purpose of the Bonds, the security for the Bonds, and the right of referendum of the electors with respect thereto, and that the provision of forty-five (45) days within which to file a referendum petition is adequate to insure that the City's electors may exercise their right of referendum with respect to the Bonds.

4. In order to comply with Federal Treasury Regulation § 1.150-2, the City Council states that the City intends to reimburse expenditures for Wet Weather Control Program Improvements

with proceeds of the Bonds, including the Bonds described in this Resolution, by making the following declaration:

- (A) The City reasonably expects to reimburse itself for the expenditures made to acquire the Improvements with proceeds of debt to be incurred by the City.
- (B) The maximum principal amount of debt expected to be issued for reimbursement purposes including bond issuance costs is \$13,000,000, which may be issued in one or more series.
- (C) A reimbursement allocation of the expenditures for the Improvements with the proceeds of the borrowing described here will occur not later than 18 months after the later of (i) the date on which the expenditure is paid, or (ii) the date of Improvements are placed in service or abandoned, but in no event more than three (3) years after the original expenditure is paid. A reimbursement allocation is an allocation in writing that evidences the City's use of the proceeds of the debt to be issued for the Improvements to reimburse the City for a capital expenditure made pursuant to this Resolution.
- (D) This Resolution is adopted to indicate the intent of the City only, and does not bind the City to acquire and construct any Improvements or to issue any obligations of the City.

5. Either the Finance Director or the Public Service Director are authorized to request qualified status from the Michigan Department of Treasury and to pay the related fee, or to request the Michigan Department of Treasury to issue and order granting prior approval to issue Bonds, and to request any related waivers.

6. Dykema Gossett, P.L.L.C., of Lansing, Michigan, is appointed as Bond Counsel with respect to the Bonds described in this Resolution.

7. All Resolutions and parts of Resolutions insofar as they conflict with the provisions of this Resolution are rescinded.

ADOPTED BY THE FOLLOWING VOTE:

YEAS: _____

NAYS: _____

RESOLUTION #2017-__
NOTICE OF INTENT TO ISSUE BONDS
FOR PUBLIC SERVICE DEPARTMENT
COMBINED SEWER OVERFLOW CONTROL PROJECT

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(Ingham and Eaton Counties, Michigan)

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Chris Swope,
City Clerk

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7. All Resolutions and parts of Resolutions insofar as they conflict with the provisions of this Resolution are rescinded.

ADOPTED BY THE FOLLOWING VOTE:

YEAS: _____

NAYS: _____



Chris Swope
Lansing City Clerk

October 6, 2017

Lansing City Council
10th Floor City Hall
124 W. Michigan Ave.
Lansing, MI 48933

Dear President Spitzley and Council Members:

Attached for your review and appropriate action is a draft resolution proposing the Lansing City Council meeting schedule for 2018. Please contact me if I may provide any additional information or assistance.

Sincerely,

Chris Swope
Lansing City Clerk

BY THE COMMITTEE OF THE WHOLE
RESOLVED BY THE CITY COUNCIL OF THE CITY OF LANSING

WHEREAS, City Clerk Chris Swope submitted a recommended list of dates for the Lansing City Council meetings for 2018 to the Lansing City Council; and

WHEREAS, the Committee of the Whole will meet at 5:30 p.m. before all Monday Council meetings listed below; and

WHEREAS, the Lansing City Charter requires the City Council to meet at least 26 times each year; and

WHEREAS, the Committee of the Whole has reviewed the City Clerk's recommendations and concurs with the list of recommended meeting dates for 2018.

NOW, THEREFORE, BE IT RESOLVED the Lansing City Council hereby approves the recommendations of City Clerk Chris Swope for Lansing City Council meeting dates for 2018 as follows:

Wednesday, January 3, 2018; Annual Organizational – 1st meeting of the year

Monday, January 8, 2018

Monday, January 22, 2018

Monday, February 12, 2018

Monday, February 26, 2018; Board List - prior to first meeting in March

Monday, March 12, 2018

Monday, March 26, 2018; Mayor's Budget - on or before 4th Monday in March

Monday, April 9, 2018

Monday, April 23, 2018

Monday, April 30, 2018; Budget Public Hearing; Mayor's Board Appointments - prior to first meeting in May

Monday, May 14, 2018

Monday, May 21, 2018; Adopt Budget - not later than 3rd Monday in May

Monday, May 28, 2018

Monday, June 11, 2018; Council Act on Appointments - at or before 1st meeting in June

Monday, June 25, 2018

Monday, July 9, 2018

Monday, July 23, 2018

Monday, August 13, 2018

Monday, August 27, 2018

Monday, September 10, 2018

Monday, September 24, 2018; Budget Priorities - no later than October 1

Monday, October 8, 2018

Monday, October 22, 2018

Monday, November 12, 2018

Monday, November 26, 2018

Monday, December 10, 2018

Except as otherwise noted, all meetings will be on a Monday at 7:00 p.m. in the Lansing City Council Chambers, 10th Floor City Hall.

BE IT FURTHER RESOLVED that the Council shall meet as a Committee of the Whole on Wednesday, January 3, 2018 at 5:30 p.m.

Bob Johnson, Director
Planning & Neighborhood Development



Virg Bernero, Mayor

Planning Office
316 N. Capitol Avenue, Suite D-1
Lansing, Michigan 48933
PH: 517.483.4066 – FAX: 517.483.6036
www.lansingmi.gov/planning

TO: Mayor Bernero

FROM: Bill Rieske, Asst. Planning Manager

DATE: October 18, 2017

RE: Form-Based Code

In 2012, the Lansing City Council adopted the *Design Lansing* Comprehensive Plan, after the largest public participation effort to date. On May 2, 2017, the Lansing Planning Board recommended the adoption of a Form-Based Code, pending further editing, to implement the land use recommendations of the *Design Lansing* Plan.

A form-based code (FBC) is a zoning approach that focuses less on a building's use, and more on its form and appearance. Lansing's appearance was a major issue in the Comprehensive Plan. Lansing residents indicated their preferences for areas that should be preserved, enhanced, and transformed.

Lansing Form-Based Code features:

- The Form-based Code documents the desired form of development and prescribed building form requirements to implement the Comprehensive Plan.
- The FBC contains minimum architectural standards to encourage quality development.
- It is based on the Plan, and is intended to implement the Plan.
- The Lansing FBC is city-wide, like that of Cincinnati, Nashville, and Miami. While other Michigan Cities utilize form-based codes, Lansing would be the largest city in Michigan with a city-wide FBC.
- The Lansing FBC is a "hybrid" ordinance that covers both use and form.
- The FBC would replace the current Zoning Ordinance in its entirety, and coordinates with the public space standards being developed by the Department of Public Service in conjunction with the CATA's "Shaping the Avenue" project.
- The FBC would enable Lansing to take advantage of the benefits of mixed use developments at greater densities, including:
 - Greater walkability
 - Greater return on investment for property owners (leading to greater development potential)
 - Increased property and income tax revenues per acre
 - Increased opportunities for "missing middle" residences
 - Greater efficiencies in the delivery of urban services

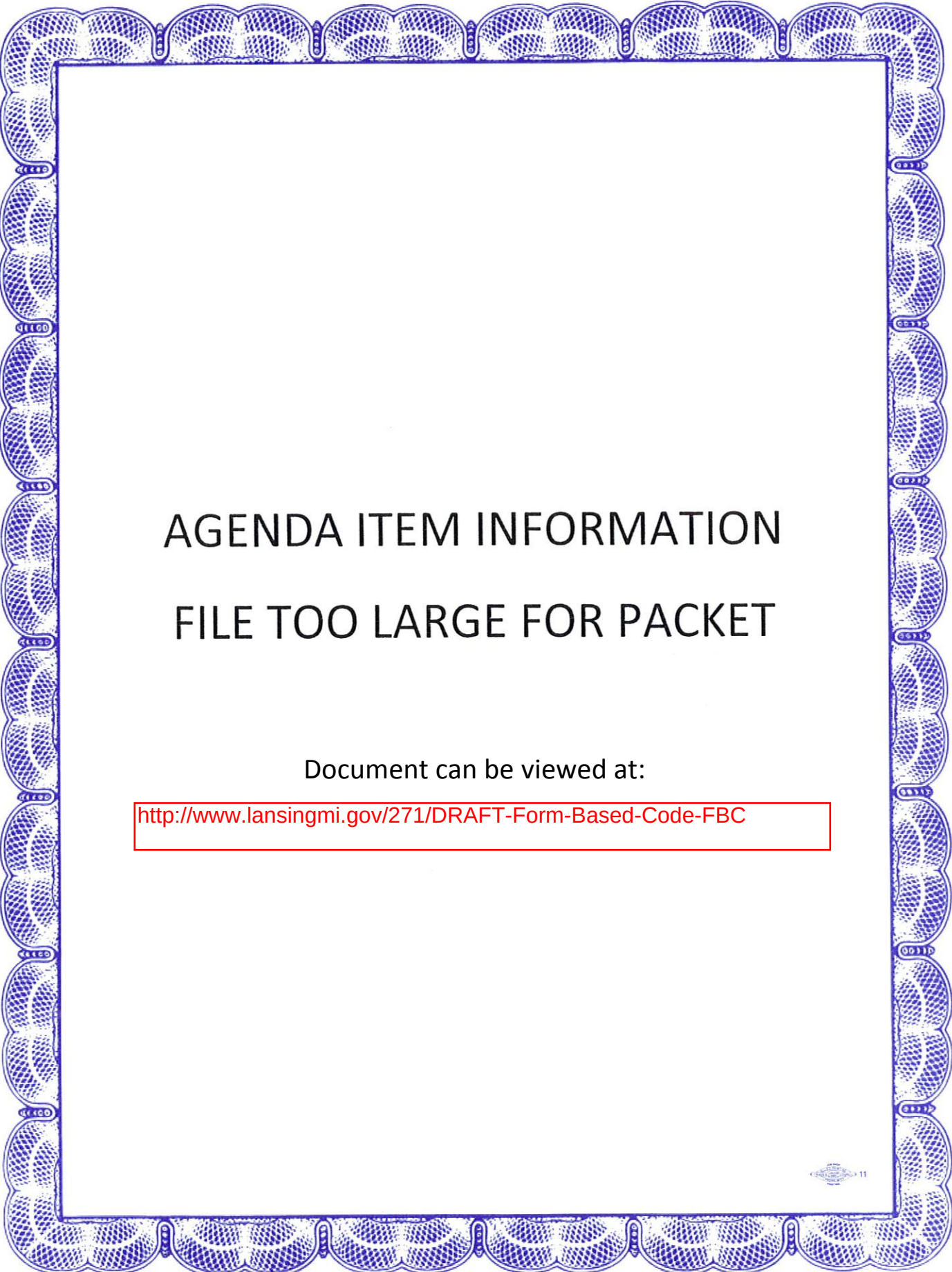
Public Outreach Measures:

- Three public workshops (March 20, 2013, October 2, 2013, May 8, 2014).
- Continuous presence on the web (<http://www.lansingmi.gov/271/DRAFT-Form-Based-Code-FBC>) for more than two years (Summer, 2015 to present).
- Several public hearings before the Planning Board (February 2, 2016, October 4, 2016, November 1, 2016, May 2, 2017).
- Partnering with the CATA Shaping the Avenue public presentations (August 9, 2017, September 13, 2017)
- A developers' preview (September 6, 2017).
- Public notices on social media (September, 2017).
- A presentation in each of the four City Council wards (September 14, 19, 20, and 21, 2017).

The draft ordinance was also reviewed by national experts from the Form Based Code Institute (funded by the "Shaping the Avenue" project). Funding for the downtown districts was provided by the MEDC.

The Form-Based Code web page (<http://www.lansingmi.gov/271/DRAFT-Form-Based-Code-FBC>) has additional information on FBCs, along with the user guide and draft ordinance, zoning districts map, and street classification map.

"Equal Opportunity Employer"



AGENDA ITEM INFORMATION

FILE TOO LARGE FOR PACKET

Document can be viewed at:

<http://www.lansingmi.gov/271/DRAFT-Form-Based-Code-FBC>

BY THE COMMITTEE OF THE WHOLE

RESOLVED BY THE CITY COUNCIL OF THE CITY OF LANSING

Resolved by the City Council of the City of Lansing that a public hearing be set for Monday, November 27, 2017, at 7 p.m. in City Council Chambers, Tenth Floor, Lansing City Hall, 124 W. Michigan Avenue, Lansing, Michigan, for the purpose of:

Approving or opposing the adoption of a form-based code and zoning map that would repeal and replace the current zoning ordinance/map, being Part 12, Title 6 of the City of Lansing Codified Ordinances in its entirety.

INTRODUCTION OF ORDINANCE

An Ordinance to adopt a form-based code and zoning map to replace and repeal the existing zoning ordinance and map, being Part 12, Title 6 of the City of Lansing Codified Ordinances, was introduced by the Committee on Development & Planning, read a first and second time by its title and referred to the Committee on Development and Planning.

**CITY OF LANSING
NOTICE OF PUBLIC HEARING**

The Lansing City Council will hold a public hearing on Monday, November 27, 2017, at 7:00 p.m. in Council Chambers, 10th Floor, Lansing City Hall, 124 W. Michigan Avenue, Lansing, Michigan to consider the adoption of a form-based code (FBC) and zoning map to replace and repeal the existing zoning ordinance and map, being Part 12, Title 6 of the City of Lansing Codified Ordinances. The FBC incorporates placemaking into a zoning ordinance to more effectively implement the recommendations of the *Design Lansing* Comprehensive Plan.

For more information, please call Lansing City Council at 517-483-4177. If you are interested in this matter, please attend the public hearing or send a representative. Written comments will be accepted between 8 a.m. and 5 p.m. on City business days if received before 5 p.m., Monday, November 27, 2017 at the City Clerk's Office, Ninth Floor, City Hall, 124 West Michigan Ave., Lansing, MI 48933 or email city.clerk@lansingmi.gov.

Chris Swope, City Clerk



Chris Swope
Lansing City Clerk

October 20, 2017

City Council President Wood and Lansing City Council Members
10th Floor City Hall
Lansing, MI 48933

Dear President Spitzley and Council Members:

Pursuant to Article 5, Chapter 2, Section 5-205.2 of the Lansing City Charter, on October 13, 2017 the Board of Water and Light placed on file with my office:

Board of Water and Light proposed rate changes with effective February 1, 2018, February 1, 2019, and February 1, 2020.

This document is available for review at the office of the City Clerk and on the City Clerk's website (www.lansingmi.gov/clerk).

Sincerely,

Chris Swope, CMC
Lansing City Clerk

**PROPOSED ELECTRIC, WATER, STEAM, AND CHILLED WATER
RATE CHANGES
LANSING BOARD OF WATER AND LIGHT
1201 S. WASHINGTON AVE.
LANSING, MICHIGAN 48910**

Letter to City Clerk dated October 13, 2017

Attachment A is the public hearing notice to be published in a newspaper of general circulation.

Attachment B is a copy of the proposed rate schedules. The effective dates of the proposed rate schedules for Electric, Water, Steam, and Chilled Water are February 1, 2018, February 1, 2019, and February 1, 2020.

Attachment C presents the effect of the proposed changes to the Electric, Water, and Steam rate schedules on various monthly billings to customers.



October 13, 2017

Mr. Chris Swope, City Clerk
City of Lansing
124 W. Michigan Avenue, 9th Floor
Lansing, MI 48933

Dear Mr. Swope:

This letter and attachments are being filed with the City Clerk as required in Article 5, Chapter 2, Section 5-205.2 of the Lansing City Charter regarding changes in rate structures and other charges.

The Board of Water and Light's most recent rate changes were effective November 1, 2014.

Proposed Changes

The proposed changes would increase the revenue available to operate and maintain the Electric, Water, and Steam systems.

Accordingly, the Board of Commissioners has under consideration the attached proposed schedules. If adopted, the Electric, Water, and Steam fiscal year customer billings would increase as follows:

	FY 2018 Billings	FY 2019 Billings	FY 2020 Billings
Effective Date of Rate Change	February 1, 2018	February 1, 2019	February 1, 2020
Electric	\$ 2,121,211.00	\$ 10,136,528.00	\$ 10,399,064.00
Water	\$ 625,754.00	\$ 1,890,127.00	\$ 2,245,337.00
Steam	\$ 274,345.00	\$ 404,770.00	\$ 400,155.00

Other Changes

The Board of Water and Light is proposing changes to all rate schedules, as referenced in Attachment B. Additionally, the Board of Water and Light is proposing the addition of new rates and riders, including Rate 41 Pole Attachments, Rate 85 Primary High Load Factor, and Voluntary Renewable Energy Rider, which are also included in Attachment B.

Public Hearing

A public hearing, scheduled for Thursday, November 30, 2017, at 5:30 p.m. in the Board of Water and Light REO Town Depot at 1201 S. Washington Avenue, will provide an opportunity for public input on these changes.





Customer Impact

The impact on any individual customer will vary depending upon the type of service received and customer consumption of electricity, water, and steam. The effect on various customer usage levels is shown in Attachment C.

Very truly yours,


M. Denise Griffin
Corporate Secretary



Attachment A
Notice of Public Hearing

**NOTICE OF PUBLIC HEARING ON PROPOSED
ELECTRIC, WATER, STEAM, AND CHILLED WATER RATE SCHEDULES
BOARD OF WATER AND LIGHT
OF THE CITY OF LANSING, MICHIGAN**

A Public Hearing will be held on Thursday, November 30, 2017 at 5:30 p.m. in the Board of Water and Light REO Town Depot at 1201 S. Washington Avenue, Lansing Michigan. Members of the public are invited to attend.

PURPOSE OF THE HEARING: The Board of Water and Light will solicit comments from the public on PROPOSED ELECTRIC, WATER, STEAM, AND CHILLED WATER RATE SCHEDULES. THE PROPOSALS being considered by the Commissioners would INCREASE RATES FOR ELECTRIC, WATER, AND STEAM.

REASON FOR CHANGE: The proposed rate adjustments will provide additional revenue to operate and maintain the electric, water, and steam systems. The proposed rate adjustments will partially offset increased costs of operating and maintaining the electric, water, and steam systems.

IF YOU WANT TO BE HEARD: Comments, oral or written, may be submitted at the public hearing. Mailed comments will be received until 5:00 p.m. on November 29, 2017, addressed to the Board of Water and Light, P. O. Box 13007, Lansing, Michigan 48910, Attention: Corporate Secretary. Comments MUST BE LIMITED TO THE PROPOSED RATE SCHEDULES. The hearing officer may impose time restrictions on oral comments, depending on the number of persons wishing to be heard.

FURTHER INFORMATION: Copies of proposed rate schedules may be picked up at the information desk on the first floor of the Board of Water and Light Headquarters, at 1201 S. Washington Avenue or at the Board of Water and Light Customer Service Center, at 1232 Haco Drive between 8:00 a.m. and 5:00 p.m., Monday through Friday. This material will also be available at the public hearing.

**PUBLISHED BY ORDER OF THE BOARD OF WATER AND LIGHT
COMMISSIONERS**

M. Denise Griffin
Corporate Secretary

Attachment B
Proposed Fiscal Year 2018-2020 Rate Schedules



RESIDENTIAL ELECTRIC SERVICE RATE NO. 1

Availability - This rate is available to any single-family dwelling or multifamily dwelling of 4 units or less when the entire electric requirements are supplied at one Service Location through one meter. Service to appurtenant buildings may be taken through the same meter.

Service under this rate is not available when a portion of the dwelling or an appurtenant building is used for commercial, industrial, or resale purposes unless the wiring is so arranged that service for residential and non-residential purposes are metered separately at separate Service Locations.

Nature of Service - The service is alternating current, 60 hertz, single phase, 120/240 nominal volts.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2018</u>
Basic Service Charge	\$13.00 Per Service Location per month
Commodity Charge	
Summer Months of June through October	\$0.1230 Per kWh for the first 500 kWh \$0.1285 Per kWh for all kWh over 500 kWh
Winter Months of November through May	\$0.1230 Per kWh for the first 500 kWh \$0.1265 Per kWh for all kWh over 500 kWh

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



GENERAL ELECTRIC SERVICE RATE NO. 3

Availability - This rate is available to any customer desiring secondary voltage service for any purpose when supplied at one Service Location through one meter. The limitation to secondary-voltage service may be waived at the sole discretion of the BWL. This rate is not available for emergency service, standby service, auxiliary service, or resale.

Nature of Service - The service is alternating current, 60 hertz, single phase or three phase. The secondary voltage is determined by the Board of Water and Light (BWL).

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2018</u>	
Basic Service Charge	\$28.00	Per Service Location per month
Commodity Charge		
Summer Months of June through October	\$0.1410	Per kWh for all kWh
Winter Months of November through May	\$0.1371	Per kWh for all kWh

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Metering - Where the BWL elects to measure the service on the primary side of the transformers, the metered kWh thus measured will be reduced by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, the consumption as registered by the different meters will not be combined for billing purposes but will be computed and billed separately.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



LARGE GENERAL ELECTRIC SERVICE RATE NO. 4

Availability - This rate is available to any customer desiring secondary voltage for any purpose when the electrical requirements are supplied at one Service Location through one metering installation and the Maximum Demand is 15 kW or more. The limitation to secondary-voltage service may be waived at the sole discretion of the BWL. This rate is not available for emergency service, standby service, auxiliary service, or resale.

Nature of Service - The service is alternating current, 60 hertz, single phase or three phase. The secondary voltage is determined by the Board of Water and Light (BWL).

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2018</u>
Basic Service Charge	\$100.00 Per Service Location per month
Capacity Charge	\$14.00 Per kW for all kW of Maximum Demand
Commodity Charge	
Summer Months of June through October	\$0.0861 Per kWh for all kWh
Winter Months of November through May	\$0.0816 Per kWh for all kWh
Reactive Power Charge	\$0.0106 Per kvarh in excess of 50% of total kWh

The Reactive Power Charge shall be applicable to customers who have reactive kilovar hour (kvarh) metering installed in accordance with BWL Rules and Regulations regarding power factor.

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate plus the Maximum Demand charge as defined below.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Maximum Demand - The Maximum Demand shall be the kW supplied during the 15-minute period of maximum use during the billing month.

The Maximum Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

Metering - Where the BWL elects to measure the service on the primary side of the transformer, the metered kW and kWh thus measured will be reduced by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, the consumption as registered by the different meters will not be combined for billing purposes but will be computed and billed separately.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



PRIMARY ELECTRIC SERVICE RATE NO. 5

Availability - This rate is available to any customer desiring primary voltage service when the electrical requirements are supplied at one Service Location through one metering installation (except as provided below for Multiple Service Location Aggregation) and the On-Peak Billing Demand is 100 kW or more. This rate is not available for emergency service, standby service, auxiliary service, or resale.

Nature of Service - The service is alternating current, 60 hertz, three phase. The primary voltage is determined by the Board of Water and Light (BWL).

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2018</u>	
Basic Service Charge	\$190.00	Per Service Location per month
Capacity Charge		
On-Peak Billing Demand	\$11.50	Per kW for all kW of On-Peak Billing Demand
Maximum Demand	\$4.50	Per kW for all kW of Maximum Demand
Commodity Charge		
Summer Months of June through October	\$0.0782	Per kWh for all kWh during the On-Peak Period
	\$0.0738	Per kWh for all kWh during the Off-Peak Period
Winter Months of November through May	\$0.0758	Per kWh for all kWh during the On-Peak Period
	\$0.0738	Per kWh for all kWh during the Off-Peak Period
Reactive Power Charge	\$0.0106	Per kvarh in excess of 50% of total kWh

The Reactive Power Charge shall be applicable to customers who have reactive kilovar hour (kvarh) metering installed in accordance with BWL Rules and Regulations regarding power factor.

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate plus the On-Peak Billing Demand charge and Maximum Demand charge as defined below.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

On-Peak Billing Demand - The On-Peak Billing Demand shall be the kW supplied during the 15-minute period of maximum use during the On-Peak Period during the billing month.

The On-Peak Billing Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

Maximum Demand - The Maximum Demand shall be the kW supplied during the 15-minute period of maximum use during the billing month, whether on-peak or off-peak.

The Maximum Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

Schedule of on-peak and off-peak periods - The On-Peak Period shall be from 10:00 a.m. until 6:00 p.m., Monday through Friday. All other hours shall comprise the Off-Peak Period.

Multiple Service Location Aggregation - The 15-minute period demands of multiple Service Locations of a customer may be summed for determination of the total On-Peak Billing Demand under the following conditions: (a) the Maximum Demand at each Service Location must equal or exceed 100 kW; (b) the total On-Peak Billing Demand shall not be less than 4,000 kW; and (c) the customer shall agree to a service contract with the BWL for the customer's full electrical service requirements at the aggregated Service Locations for a period of not less than five (5) years. Aggregation shall be applicable for determination of the On-Peak Billing Demand only. All other charges, including the Basic Service Charge and Maximum Demand, shall apply to each Service Location independently.

Metering - Where the BWL elects to measure the service on the secondary side of the transformers, the metered kW and kWh thus measured will be increased by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, consumption as registered by the different meters will not be combined for billing purposes but will be billed and computed separately except as provided for in Multiple Service Location Aggregation.

Equipment Supplied by Customer - The customer shall be responsible for furnishing, installing and maintaining all necessary transforming, controlling and protective equipment required for service beyond the BWL primary-voltage Service Location. At the sole option of the BWL, a customer may lease such transformers or other equipment from the BWL under terms established by the BWL.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



MUNICIPAL WATER PUMPING ELECTRIC SERVICE RATE NO. 7

Availability - This rate is available to any political subdivision or agency of the State of Michigan desiring service for potable water pumping and associated potable water production equipment when the entire electrical requirements are supplied at one Service Location through one meter. This rate is not available for emergency service, standby service, auxiliary service, or resale.

Nature of Service - The service is alternating current, 60 hertz, three phase. The secondary or primary voltage is determined by the BWL.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2018</u>	
Basic Service Charge	\$20.00	Per Service Location per month
Commodity Charge	\$0.1182	Per kWh for all kWh

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Metering - For customers taking secondary voltage from the BWL and where the BWL elects to measure the service on the primary side of the transformers, the metered kWh thus measured will be reduced by 3% for billing purposes to adjust for transformer losses. For customers taking primary voltage from the BWL and where the BWL elects to measure the service on the secondary side of the transformers, the metered kWh thus measured will be increased by 3% for billing purposes to adjust for transformer losses.

Where the customer receives service through more than one meter, the consumption as registered by the different meters will not be combined for billing purposes but will be computed and billed separately.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



LARGE CAPACITY ELECTRIC SERVICE RATE NO. 8

Availability - This rate is available to any customer desiring primary voltage service when: (a) the electrical requirements are supplied at one or more Service Locations as provided below for Multiple Service Location Aggregation; (b) where the total On-Peak Billing Demand is 25,000 kW or more; and (c) the customer agrees to a service contract with the BWL for the customer's full electrical service requirements at the applicable Service Locations for a period of not less than ten (10) years. This rate is not available for emergency service, standby service, auxiliary service, or resale.

Nature of Service - The service is alternating current, 60 hertz, three phase. The primary voltage is determined by the Board of Water and Light (BWL).

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2018</u>	
Basic Service Charge	\$430.00	Per Service Location per month
Capacity Charge		
On-Peak Billing Demand	\$13.00	Per kW for all kW of On-Peak Billing Demand
Maximum Demand	\$2.25	Per kW for all kW of Maximum Demand
Commodity Charge		
Summer Months of June through October	\$0.0763	Per kWh for all kWh during the On-Peak Period
	\$0.0707	Per kWh for all kWh during the Off-Peak Period
Winter Months of November through May	\$0.0747	Per kWh for all kWh during the On-Peak Period
	\$0.0707	Per kWh for all kWh during the Off-Peak Period
Reactive Power Charge	\$0.0106	Per kvarh in excess of 50% of total kWh

The Reactive Power Charge shall be applicable to customers who have reactive kilovar hour (kvarh) metering installed in accordance with BWL Rules and Regulations regarding power factor.

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate plus the On-Peak Billing Demand charge and Maximum Demand charge as defined below.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

On-Peak Billing Demand: The On-Peak Billing Demand shall be the total kW supplied to all applicable Service Locations during the 15-minute period of maximum use during the On-Peak Period during the month (See Multiple Service Location Aggregation).

The On-Peak Billing Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

Maximum Demand: The Maximum Demand for each Service Location shall be the kW supplied during the 15-minute period of maximum use during the month whether on-peak or off-peak, but the Maximum Demand charge shall never be less than 1,000 kW.

The Maximum Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

Schedule of on-peak and off-peak periods - The On-Peak Period shall be from 10:00 a.m. until 6:00 p.m., Monday through Friday. All other hours shall comprise the Off-Peak Period.

Multiple Service Location Aggregation - The 15-minute period demands of multiple Service Locations of a customer shall be summed for determination of the total On-Peak Billing Demand if the Maximum Demand determined at each Service Location equals or exceeds 1,000 kW. Aggregation shall be applicable for determination of the On-Peak Billing Demand only. All other charges, including the Basic Service Charge and Maximum Demand, shall apply to each Service Location independently.

Metering - Where the BWL elects to measure the service on the secondary side of the transformers, the metered kW and kWh thus measured will be increased by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, consumption as registered by the different meters will not be combined for billing purposes but will be billed and computed separately except as provided for in Multiple Service Location Aggregation.

Equipment Supplied by Customer - The customer shall be responsible for furnishing, installing and maintaining all necessary transforming, controlling and protective equipment required for service beyond the BWL primary-voltage Service Location. At the sole option of the BWL, a customer may lease such transformers or other equipment from the BWL under terms established by the BWL.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



OUTDOOR LIGHTING SERVICE RATE NO. 9

Availability - This rate is available to any customer located within the Board of Water and Light (BWL) service area for dusk to dawn lighting of a Service Location's premises. The BWL furnishes and maintains all lights. The installation will overhang private property from existing or new poles set at points accessible to BWL construction and maintenance equipment. This rate is not available for purposes of street, highway, or public thoroughfare lighting.

Monthly Rate - Shall be computed in accordance with the following charges:

<i>Luminaires on Overhead Mast Arm on existing BWL poles</i>	<i>2/1/2018</i>
High Pressure Sodium¹	
100 W	\$12.96
250 W	\$20.57
400 W	\$23.38
Mercury Vapor²	
175 W	\$13.60
400 W	\$23.38
LED End Mount	
1-19 W	\$9.52
20-39 W	\$10.05
40-59 W	\$10.59
60-79 W	\$11.13
80-99 W	\$11.67
100-119 W	\$12.20
120-139 W	\$12.74
140-159 W	\$13.28
160-179 W	\$13.81
180-199 W	\$14.35
200-219 W	\$14.89
220-239 W	\$15.43
240-259 W	\$15.96
260-279 W	\$16.50
280-299 W	\$17.04
300-319 W	\$17.58
320-339 W	\$18.11
340-359 W	\$18.65
360-379 W	\$19.19
380-399 W	\$19.72

¹ Rates apply to existing luminaires and are subject to cost and availability for new business.

² Rates apply to existing luminaires only and are not open to new business.

<i>Floodlighting Luminaires on Bracket Arm on existing BWL poles</i>	<i>2/1/2018</i>
High Pressure Sodium³	
100 W	\$17.23
250 W	\$23.18
400 W	\$27.19
Metal Halide³	
400 W	\$33.78
1000 W	\$58.44
1500 W	\$81.09
LED Flood	
1-19 W	\$11.12
20-39 W	\$11.65
40-59 W	\$12.19
60-79 W	\$12.73
80-99 W	\$13.26
100-119 W	\$13.80
120-139 W	\$14.34
140-159 W	\$14.88
160-179 W	\$15.41
180-199 W	\$15.95
200-219 W	\$16.49
220-239 W	\$17.03
240-259 W	\$17.56
260-279 W	\$18.10
280-299 W	\$18.64
300-319 W	\$19.17
320-339 W	\$19.71
340-359 W	\$20.25
360-379 W	\$20.79
380-399 W	\$21.32

In the event additional facilities or rearrangement of existing facilities is required, the BWL shall install, operate and maintain such facilities for the following monthly charges.

Type of Facilities	2/1/2018
35-foot wood poles including span of overhead secondary extension	\$14.71 Per pole
37-foot concrete pole including span of overhead secondary extension	\$24.40 Per pole
Other facilities, hand set poles, or rearrangement of existing facilities	1.67% Of estimated cost

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.

³ Rates apply to existing luminaires and are subject to cost and availability for new business.

Service Contract - A written service agreement shall be entered into to take BWL service for a term of years determined as follows:

- a) One year, if additional facilities are not required, or
- b) Three years, if additional facilities are required
- c) Five years, for metal halide lamps or if monthly facilities charges are calculated at 1.67% of estimated cost,
- d) Ten years, if special contractual arrangements are made.

In the event the customer discontinues service before the end of the agreement term, the established rate for the remaining portion of the agreement shall immediately become due and payable. The BWL will replace lamps or make repairs when practicable after the customer has reported that the installation requires servicing. Such replacements and repairs will be made during regular working hours. The BWL may refuse or restrict the service provided in this rate to seasonal type customers and/or may require such customers to pay for the service annually in advance where the permanency of the customer is doubtful or has not been demonstrated by the customer. If relocation, including adjustment, of the outdoor protective light or relocation of other facilities used in connection with the light is desired by the customer during the term of the contract, the BWL will provide this service, if feasible, at the customer's expense.



UNMETERED DEVICE SERVICE RATE NO. 11

Availability - This rate is available to the US Government, any political subdivision or agency of the State of Michigan, and any public or private school district for lamp installations maintained for traffic regulation or guidance, as distinguished from street illumination and police signal systems. This rate is also available to other Unmetered Devices, such as Community Antenna Television Service Companies (CATV), wireless access companies, or security camera companies for unmetered Power Supply Units. Where the BWL's total investment to serve an individual Service Location exceeds three times the annual revenue to be derived from such Service Location, a contribution to BWL shall be required for the excess.

Nature of Service - The service is alternating current, 60 hertz, single phase, 120/240 nominal volts.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2018</u>
Basic Service Charge	\$3.50 Per Service Location per month
Commodity Charge	\$0.0740 Per kWh for all kWh

The actual labor, material, miscellaneous and indirect charges experienced maintaining and relamping traffic signals during the preceding month.

Determination of kWh - Monthly kWh shall be determined by multiplying the total connected load in kW (including the lamps, ballasts, transformers, amplifiers, and control devices) times 730 hours.

The kWh for cyclical devices shall be 50% of the total kWh so calculated.

The kWh of continuous, non-intermittent devices shall be 100% of the total kWh so calculated.

The kWh of devices used for the control of school traffic, and operated not more than six hours per day during the school year only, shall be 10% of the continuous or cyclical kWh so calculated.

The kWh for CATV Power Supply Units shall be 50% of the total kWh as determined from the manufacturer's rated input capacity of the Power Supply Units or the actual test load, whichever is greater.

The kWh for Wireless Access and Security Camera Power Supply Units shall be 100% of the total kWh as determined from the manufacturer's rated input capacity of the Power Supply Units or the actual test load, whichever is greater.

The BWL may, at its option, install test meters for the purpose of determining the monthly kWh usage to be used for billing purposes.

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



SPACE CONDITIONING AND ELECTRIC WATER HEATING SERVICE RATE NO. 12

Availability - This rate is available to any customer desiring service for commercial/industrial space conditioning and/or electric water heating furnished through a separate meter to which no other electrical device except electric space heating, electric air conditioning, humidity control equipment or electric water heating equipment may be connected. Electric space heating will be considered to include heating by light system provided the primary means of space heating at the time of maximum heating requirements will be furnished by the lighting system with the balance of the heating requirements furnished by supplementary electric heating equipment. This rate is not available to new applications for heat for light systems received after March 1, 1979. This rate is not applicable to the use of electricity for electric air conditioning unless the customer has permanently installed electric space heating equipment and uses it as the principal source of space heating, or to the use of electricity for occasional or seasonal substitute for another method of water heating. This rate is not available for emergency service, standby service, auxiliary service, or resale.

Nature of Service - The service is alternating current, 60 hertz, single phase at Board of Water and Light (BWL) available secondary voltage. Three phase service will be furnished at BWL option. The secondary voltage is determined by the BWL.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2018</u>	
Basic Service Charge	\$35.00	Per Service Location per month
Commodity Charge		
Summer Months of June through October	\$0.1545	Per kWh for all kWh
Winter Months of November through May	\$0.1114	Per kWh for all kWh

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Metering - Where the BWL elects to measure the service on the primary side of the transformers, the metered kWh thus measured will be reduced by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, the consumption as registered by the different meters will not be combined for billing purposes but will be computed and billed separately.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



RESIDENTIAL ELECTRIC SERVICE, SENIOR CITIZEN RATE NO. 21

Availability - This rate is available to any Service Location that qualifies for Electric Rate No. 1 where the customer is 65 years of age or older and head of the household being served.

Nature of Service - The service is alternating current, 60 hertz, single phase, 120/240 nominal volts.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2018</u>	
Basic Service Charge	\$8.25	Per Service Location per month
Commodity Charge		
Block 1	\$0.0909	Per kWh for the first 300 kWh
Block 2	\$0.1504	Per kWh for the next 200 kWh
Block 3	\$0.1855	Per kWh for all kWh over 500 kWh

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



RESIDENTIAL PLUG-IN ELECTRIC VEHICLE CHARGING SERVICE RATE NO. 22

Availability - The Residential Plug-in Electric Vehicle Charging Rate is a voluntary rate available to any Service Location that qualifies for Electric Rate No. 1 where separately metered Electric Vehicle Supply Equipment (EVSE) capable of providing Level 2 charging for plug-in electric motor vehicles is installed.

“EVSE” means a device or apparatus, including vehicle supply cable, connector, internal relays and controls designed specifically for the purpose of delivering energy from the premises wiring to a plug-in-electric motor vehicle. This equipment must meet or exceed all applicable codes, standards, and required practices.

“Level 2 Charging” means providing 208 – 240 volt single phase alternating current energy to an onboard charger of an electric motor vehicle with a maximum current specified by the vehicle manufacturer.

Nature of Service - The service is alternating current, 60 hertz, single phase, 208 to 240 nominal volts, Level 2 Charging as defined. However, the new circuit protective device rating shall not to exceed 100 amperes.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2018</u>
Basic Service Charge	\$1.95 Per Service Location per month
Commodity Charge	
Off-Peak Energy	\$0.0821 Per kWh for all Off-Peak kWh
On-Peak Energy	\$0.1715 Per kWh for all On-Peak kWh

Schedule of On-Peak and Off-Peak Periods - The On-Peak Period shall be from 7:00 a.m. until 11:00 p.m., Monday through Friday. All other hours shall comprise the Off-Peak Period.

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



**STREET LIGHTING SERVICE
BWL OWNED SYSTEMS
RATE NO. 31**

Availability - Available to any political subdivision or agency of the State of Michigan for street lighting service for any system consisting of one or more luminaires where the BWL has an existing distribution system with secondary voltage available. Luminaires may be installed with no limitations as to spacing between luminaires. Where an overhead line extension is required to serve one or more luminaires, the BWL will furnish 350 linear feet of line extension per luminaire served from such extension.

Nature of Service - The BWL will furnish, install, own, operate, and maintain all equipment comprising the street lighting system, and supply the unmetered energy. The BWL reserves the right to furnish service from either a series or multiple system or both.

Annual Rate - Shall be computed in accordance with the following charges, payable in twelve (12) monthly installments:

	2/1/2018
High Pressure Sodium Luminaire¹	
70 W	\$101
100 W	\$115
150 W	\$134
250 W	\$163
400 W	\$207
1000 W	\$425
Mercury Vapor Luminaire²	
100 W	\$107
175 W	\$130
250 W	\$154
400 W	\$197
1000 W	\$373
Metal Halide Luminaire¹	
175 W ²	\$228
250 W ²	\$260
400 W	\$262
1000 W	\$509
1500 W	\$781
Induction Luminaire¹	
85 W	\$107
165 W	\$131
LED Decorative Luminaire	
1-19 W	\$135
20-39 W	\$141
40-59 W	\$147
60-79 W	\$154

¹ Rates apply to existing luminaires and are subject to cost and availability for new business.

² Rates apply to existing luminaires only and are not open to new business.

80-99 W	\$160
100-119 W	\$167
120-139 W	\$173
140-159 W	\$180
160-179 W	\$186
180-199 W	\$193
200-219 W	\$199
220-239 W	\$205
240-259 W	\$212
260-279 W	\$218
280-299 W	\$225
300-319 W	\$231
320-339 W	\$238
340-359 W	\$244
360-379 W	\$251
380-399 W	\$257
LED End Mount Luminaire	
1-19 W	\$114
20-39 W	\$121
40-59 W	\$127
60-79 W	\$134
80-99 W	\$140
100-119 W	\$146
120-139 W	\$153
140-159 W	\$159
160-179 W	\$166
180-199 W	\$172
200-219 W	\$179
220-239 W	\$185
240-259 W	\$192
260-279 W	\$198
280-299 W	\$204
300-319 W	\$211
320-339 W	\$217
340-359 W	\$224
360-379 W	\$230
380-399 W	\$237
LED Flood Luminaire	
1-19 W	\$133
20-39 W	\$140
40-59 W	\$146
60-79 W	\$153
80-99 W	\$159
100-119 W	\$166
120-139 W	\$172
140-159 W	\$179
160-179 W	\$185
180-199 W	\$191
200-219 W	\$198
220-239 W	\$204
240-259 W	\$211
260-279 W	\$217
280-299 W	\$224
300-319 W	\$230

320-339 W	\$237
340-359 W	\$243
360-379 W	\$249
380-399 W	\$256

Annual Rate (continued)

Plus, an additional annual charge, depending on type of installation, of:

	2/1/2018
Wood Pole – Overhead Service	\$75
Wood Pole – Underground Service	\$117
Concrete Pole – Overhead Service	\$185
Concrete Pole – Underground Service	\$185
Post Top – Concrete	\$117
Historic – Single Top	\$386
Large Historic – Dual Top	\$773
Small Historic – Dual Top	\$650
Wall/Tunnel – 8760 Hours	\$163
Wall/Tunnel – 4200 Hours	\$99
Bollard	\$328

Note: Luminaires installed on existing poles will be charged only the applicable rate for the luminaire. None of the additional charges above will be applied.

Customer Contribution - The Annual Rates are based on fixtures normally stocked by the BWL, and installed utilizing normal construction techniques. The BWL may, at its option, upon customer request install a street lighting system not covered by the rates above. Such requests shall be subject to the terms and conditions of Electric Rate 31a.

Unit Replacement - The BWL may, at its option, upon customer request replace existing street light units. After installation, the customer shall make a one-time contribution equal to the undepreciated value of the unit plus the cost of removal.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



**STREET LIGHTING SERVICE
BWL OWNED SYSTEMS
RATE NO. 31a**

Availability - Available to any political subdivision or agency of the State of Michigan for non-standard BWL street lighting service for any system consisting of one or more luminaires where the BWL has an existing distribution system with secondary voltage available.

Nature of Service - The BWL will furnish, install, own, operate, and maintain all equipment comprising the street lighting system, and supply the unmetered energy. The BWL reserves the right to furnish service from either a series or multiple system or both.

Annual Rate - The annual rate per luminaire with fixture and setting, payable in twelve monthly installments, shall consist of an annual energy charge and an annual facilities charge, as set forth below:

	<u>2/1/2018</u>
High Pressure Sodium Luminaire	\$0.64 per watt of rated energy usage
Metal Halide Luminaire	\$0.87 per watt of rated energy usage
LED Luminaire	\$0.45 per watt of rated energy usage

Annual Facilities Charge - The Annual Rate to recover the cost of luminaires, poles, attachments, and other equipment installed to provide service under this rate schedule, including the total facilities cost less any customer contributions, projected annual maintenance cost, and return on investment. The annual facilities charge for each luminaire and setting will be specified in the service contracts with each customer.

Unit Replacement - The BWL may, at its option, upon customer request replace existing street light units. After installation, the customer shall make a one-time contribution equal to the undepreciated value of the unit plus the cost of removal.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



**STREET LIGHTING SERVICE
CUSTOMER OWNED SYSTEMS
RATE NO. 32**

Availability - Available to any political subdivision or agency of the State of Michigan for street lighting service for any system consisting of one or more luminaires where the BWL has an existing distribution system available. Effective March 1, 2011, this rate is not open to new business.

Nature of Service - The BWL will connect the customer's equipment to BWL lines, furnish the control equipment, supply the unmetered energy, control the burning hours of the lamps, provide normal replacement of luminaire refractors, control devices and lamps. The customer will furnish, install and own all equipment comprising the street lighting system, including, but not limited to the overhead wires or underground cables between luminaires and the supply circuits extending to the point of attachment with the BWL. All maintenance and replacement of the customer's equipment except normal lamp and glass replacement shall be paid by the customer. The BWL reserves the right to furnish service from either a series or multiple system or both.

Annual Rate - Shall be computed in accordance with the following charges, payable in twelve (12) monthly installments:

	2/1/2018
High Pressure Sodium Luminaire¹	
70 W	\$53
100 W	\$64
150 W	\$82
250 W	\$108
400 W	\$155
1000 W	\$366
Mercury Vapor Luminaire¹	
175 W	\$74
250 W	\$98
400 W	\$142
1000 W	\$311
Incandescent Luminaire¹	
2500 L	\$102
4000 L	\$163
6000 L	\$198
LED Luminaire	
1-19 W	\$48
20-39 W	\$54
40-59 W	\$60
60-79 W	\$67
80-99 W	\$73
100-119 W	\$80
120-139 W	\$86
140-159 W	\$93
160-179 W	\$99

¹ Rates apply to existing luminaires only and are not open to new business.

180-199 W	\$106
200-219 W	\$112
220-239 W	\$119
240-259 W	\$125
260-279 W	\$131
280-299 W	\$138
300-319 W	\$144
320-339 W	\$151
340-359 W	\$157
360-379 W	\$164
380-399 W	\$170

Maintenance Charge - The actual labor, material, miscellaneous and indirect charges experienced maintaining street light units during the preceding month.

Combined Rates - The Annual Rate for units consisting of more than one luminaire shall be the appropriate combination of individual unit charges above.

Special Terms and Conditions - The BWL reserves the right to make special contractual arrangements as to termination charges, contributions in aid of construction, term or other special considerations when the customer requests service, equipment or facilities not normally provided under this rate.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



**POLE ATTACHMENT
RATE NO. 41**

Availability - This rate is available to any customer desiring to attach cable, wire, or equipment to BWL-owned distribution or transmission poles and for which the BWL does not attach distribution cables and wires to poles owned by the attaching customer.

Nature of Service - This rate is only available for installations of one year or more and requires the customer to enter into an attachment agreement with the BWL before any attachment is made. All attachments to BWL poles are subject to approval by BWL. Energy used by any attached equipment shall be billed under a separate rate.

Annual Rate - Shall be computed in accordance with the following charges:

2/1/2018

Basic Service Charge

Cable or Wire Attachments	\$7.30 Per attachment per year or part thereof, \$300.00 minimum
Equipment Attachments	\$17.93 Per attachment per year or part thereof, \$300.00 minimum

Unauthorized Attachment Charge	In addition to the Basic Service Charge, a penalty of five times the Annual Rate shall be charged for each unauthorized attachment each year or part thereof, with charges beginning on the date of attachment.
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Application Charge - A non-refundable application charge will apply in accordance with the BWL Rules and Regulations.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.

For existing pole attachment customers, this rate will become effective the later of July 1, 2018 or at the termination of their existing agreements with the BWL.



**PRIMARY HIGH LOAD FACTOR SERVICE
RATE NO. 85**

Availability - This rate is available to any customer desiring primary voltage service when the electrical requirements are supplied at one Service Location through one metering installation (except as provided below for Multiple Service Location Aggregation) and the On-Peak Billing Demand is 1,000 kW or more. To be eligible for this rate, each Service Location must sustain an annual load factor of 85% or greater. Service Locations that fall below an annual load factor of 85% are subject to removal from this rate class and will be placed in Rate 5, Primary Service. This rate is not available for emergency service, standby service, auxiliary service, or resale.

Nature of Service - The service is alternating current, 60 hertz, three phase. The primary voltage is determined by the Board of Water and Light (BWL).

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2018</u>	
Basic Service Charge	\$310.00	Per Service Location per month
Capacity Charge		
On-Peak Billing Demand	\$17.65	Per kW for all kW of On-Peak Billing Demand
Maximum Demand	\$6.15	Per kW for all kW of Maximum Demand
Commodity Charge		
Summer Months of June through October	\$0.0521	Per kWh for all kWh during the On-Peak period
	\$0.0477	Per kWh for all kWh during the Off-Peak period
Winter Months of November through May	\$0.0497	Per kWh for all kWh during the On-Peak period
	\$0.0477	Per kWh for all kWh during the Off-Peak period
Reactive Power Charge	\$0.0106	Per kvarh in excess of 50% of total kWh

The Reactive Power Charge shall be applicable to customers who have reactive kilovar hour (kvarh) metering installed in accordance with BWL Rules and Regulations regarding power factor.

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate plus the On-Peak Billing Demand charge and Maximum Demand charge as defined below.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

On-Peak Billing Demand: The On-Peak Billing Demand shall be the kW supplied during the 15-minute period of maximum use during the On-Peak Period during the month, but the On-Peak Billing Demand charge shall never be less than 1,000 kW.

The On-Peak Billing Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

Maximum Demand: The Maximum Demand shall be the kW supplied during the 15-minute period of maximum use during the month whether on-peak or off-peak, but the Maximum Demand charge shall never be less than 1,000 kW.

The Maximum Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

Schedule of on-peak and off-peak periods - The On-Peak Period shall be from 10:00 a.m. until 6:00 p.m., Monday through Friday. All other hours shall comprise the Off-Peak Period.

Multiple Service Location Aggregation - The 15-minute period demands of multiple Service Locations of a customer may be summed for determination of the total On-Peak Billing Demand under the following conditions: (a) the Maximum Demand at each Service Location must equal or exceed 1,000 kW; (b) the total On-Peak Billing Demand shall not be less than 4,000 kW; and (c) the customer shall agree to a service contract with the BWL for the customer's full electrical service requirements at the aggregated Service Locations for a period of not less than five (5) years. Aggregation shall be applicable for determination of the On-Peak Billing Demand only. All other charges, including the Basic Service Charge and Maximum Demand, shall apply to each Service Location independently.

Metering - Where the BWL elects to measure the service on the secondary side of the transformers, the metered kW and kWh thus measured will be increased by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, consumption as registered by the different meters will not be combined for billing purposes but will be billed and computed separately except as provided for in Multiple Service Location Aggregation.

Equipment Supplied by Customer - The customer shall be responsible for furnishing, installing and maintaining all necessary transforming, controlling and protective equipment required for service beyond the BWL primary-voltage Service Location. At the sole option of the BWL, a customer may lease such transformers or other equipment from the BWL under terms established by the BWL.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



ELECTRIC ENVIRONMENTAL CHARGE

Purpose - The Electric Environmental Charge permits the recovery of costs and expenses incurred from environmental remediation and mitigation activities that are required as matter of agreement, order, decree, or law. All metered Service Locations on all rates are subject to the Electric Environmental Charge, with the Charge added to the kWh cost of each kWh billed. All revenues collected from the Electric Environmental Charge will be directly applied to offset these environmental expenses and associated Return on Equity expenses. The Electric Environmental Charge shall be reviewed and revised periodically until the balance is zero. Should the Electric Environmental Charge collect revenues in excess of environmental expenses, the difference shall be refunded to the applicable rates.

The Electric Environmental Charge shall be reviewed and revised periodically in accordance with the provisions of this schedule.

Electric Environmental Charge - The current Electric Environmental Charge is **\$0.0000/kWh**



POWER SUPPLY COST RECOVERY ADJUSTMENT

The Power Supply Cost Recovery (PSCR) Adjustment permits the monthly adjustment of rates for the costs incurred in supplying electricity. All electric rates with a kWh billing determinant are subject to the PSCR Adjustment. In applying the PSCR Adjustment, the applicable rate per kWh shall be increased or decreased by the amount of the current PSCR Adjustment.

The PSCR Adjustment shall be reviewed and, as necessary, revised periodically in accordance with the provisions of this schedule, but not less frequently than every twelve months.

Power Supply Cost Recovery (PSCR) Adjustment - the amount per kWh by which the applicable rates shall be adjusted for billing in each month.

Power Supply Cost - those costs incurred in supplying electricity. Costs include, but are not limited to, fuel burned and fuel related cost, fuel transportation, pre and post combustion fuel additives, fuel procurement, environmental allowances, costs of power purchase agreements, Midwest market energy, capacity, and ancillary services costs, and transmission costs.

Over/Under Recovery - the difference between actual Power Supply Cost for prior months and the amount of Power Supply Cost recovered by means of the Base Cost of Power Supply and the Power Supply Cost Recovery Adjustment. The Over/Under Recovery shall be added to the Power Supply Cost for purposes of computing the PSCR Adjustment for each month. Power Supply Cost will be offset with net wholesale energy, capacity, ancillary services, and transmission revenues.

Base Cost of Power Supply - the average Power Supply Cost included in the energy rates of the various rate schedules. Such amount shall not be recovered by means of the PSCR Adjustment. The current Base Cost of Power Supply is \$0.0361 per kWh sold.



ENERGY WASTE REDUCTION SURCHARGE

Purpose - The Energy Waste Reduction Surcharge (EWR Surcharge) is designed to recover Energy Waste Reduction Plan program costs, as required by 2016 PA 342.

The EWR Surcharge shall be reviewed and revised periodically in accordance with the provisions of this schedule, not to exceed the maximum surcharge allowed under the provisions of 2016 PA 342.

The EWR Surcharge will appear as a line item on the customer's bill.

Monthly Surcharge - Current Monthly EWR Surcharges are as follows:

Rate Schedule	EWR Surcharge	EWR Surcharge Self-Directed
<u>Residential</u>		
Rate 1 Residential	\$0.002678	NA /kWh
Rate 21 Senior Citizen Residential	\$0.002678	NA /kWh
<u>Small Secondary Commercial and Industrial</u>		
Rates 3 and 12	\$9.51	\$0.66 /Service Location
<u>Large Secondary Commercial and Industrial</u>		
Rate 4	\$95.05	\$6.66 /Service Location
<u>Primary Commercial and Industrial</u>		
Rates 5, 85, and 8	\$666.43	\$46.64 /Service Location



RENEWABLE ENERGY PLAN SURCHARGE

Purpose - The Renewable Energy Plan Surcharge (REP Surcharge) is designed to recover Renewable Energy Plan program costs, as required by 2016 PA 342.

The REP Surcharge will appear as a line item on the customer's bill.

The REP Surcharge shall be reviewed and revised periodically in accordance with the provisions of this schedule, not to exceed the maximum surcharge allowed under the provisions of 2016 PA 342.

Monthly Surcharge - Current Monthly REP Surcharges are as follows:

Rate Schedule	REP Surcharge	
<u>Residential</u>		
Rate 1 Residential	\$0.00	/Service Location
Rate 21 Senior Citizen Residential	\$0.00	/Service Location
<u>Secondary Commercial and Industrial</u>		
Rates 3, 4, and 12	\$0.00	/kWh
Minimum Monthly Charge	\$0.00	/Service Location
Maximum Monthly Charge	\$0.00	/Service Location
<u>Primary Commercial and Industrial</u>		
Rates 5, 85, and 8	\$0.00	/Service Location
<u>Unmetered Service</u>		
Rate 11	\$0.00	/kWh
Minimum Monthly Charge	\$0.00	/Service Location
Maximum Monthly Charge	\$0.00	/Service Location
<u>Street Lighting Service</u>		
Rates 31, 31a, and 32		
Less than 100W Luminaire	\$0.00	/Luminaire
100W or greater Luminaire	\$0.00	/Luminaire



RENEWABLE ENERGY NET METERING RIDER

Purpose - This rider provides any customers with on-site generated renewable energy to send renewable energy back to the electric grid when their generation exceeds their own consumption at the participating Service Location.

Availability - Net Metering applicants must be an electric customer making use of any metered BWL Electric Rate Schedule. The Net Metering Program will be voluntary and selection of Service Locations for participation in the net metering program shall be based on the order in which the applications for the net metering program are received by the BWL. The Net Metering Program will be in effect until the total nameplate capacity of all participating generators is equal to the maximum program limit of 1% of the BWL peak load for the preceding calendar year. The renewable energy generating system will not exceed 50 kW per Service Location and may be limited, at BWL's sole discretion, to geographical regions within the BWL's service territory.

Eligible Renewable Energy Resources - Service Locations must generate a portion or all of their own retail electricity requirements using a renewable energy resource including but not limited to the following: Biomass, Solar Photovoltaic or Wind. Other renewable energy resources not included in the list above must be approved in advance by the BWL.

Generation and Interconnection Requirements - The generation equipment must be located on the Service Location's premise and serve only the premises at the associated Service Location. The Net Metering applicant shall be limited to generation capacity designed to meet the Service Location's electric demand and energy needs. The BWL, at its discretion, will make the final determination of the acceptable size of the renewable energy generating system eligible for participation. Before participating in the Net Metering Program, the generator's Service Location must be approved for parallel operation with BWL's electric distribution system by meeting all interconnection requirements.

Monthly Rate - All Net Metering Service Locations will be billed \$5.00 per month to recover costs associated with operating the Net Metering Program.

Net Metering - Net metering Service Locations with a system capable of generating 20 kW or less shall qualify for true net metering. For Service Locations who qualify for true net metering, the net of the bidirectional flow of kWh across the Service Location interconnection with the BWL distribution system during the billing period, including excess generation credits, shall be credited at the full retail energy (kWh) rate.

- a) The credit for Net Excess Generation (NEG), if any, shall appear on the next bill and any excess credit not used to offset current charges shall be carried forward for use in subsequent billing periods.
- b) Reconciliation of any NEG credits will occur at the end of each calendar year. At that time the customer's NEG credit balance will be reset to zero and any NEG credits will be refunded at the average locational marginal price at the CONS.LANS node for the preceding year.
- c) If a customer leaves the provider's system or service is terminated for any reason, the BWL shall refund to the Service Location the remaining NEG credit amount. Remaining NEG credits will be refunded at the average locational marginal price at the CONS.LANS node for the preceding year.

Modified Net Metering - Net metering Service Locations with a system capable of generating more than 20 kW but less than 50 kW will qualify for modified net metering. The requirements for modified net metering are the same as true net metering, with exception of the credit for excess generation at the end of the billing period. The BWL will monetize and credit the Service Location for excess generation monthly;

- At the real-time locational marginal price at the CONS.LANS node, less \$5 per MWh for administration of the modified net metering program, for excess generation in each hourly interval if interval metering equipment is installed; or
- If photovoltaic solar, at the average on-peak locational marginal price at the CONS.LANS node for the billing month, less \$5 per MWh for administration of the modified net metering program, for excess generation received by the BWL during the month if non-interval, bi-directional metering equipment is installed; or

- If not photovoltaic solar, the average locational marginal price at the CONS.LANS node for the billing month, less \$5 per MWh for administration of the modified net metering program, for excess generation received by the BWL during the month if non-interval, bi-directional metering equipment is installed.

Rules and Regulations - Service under this rider is subject to the BWL Rules and Regulations for Electric Service and the Renewable Energy Net Metering Program Standards. The BWL reserves the right to revise the terms and conditions including any electric energy buy-back pricing rates of future Net Metering programs.



RENEWABLE ELECTRIC ENERGY RIDER

Availability - This rider is available to customers making use of any kWh metered BWL Electric Rate Schedule. The program will be capped based on availability of renewable energy. This rider will expire effective December 31, 2018. Customers participating in this rider will have priority enrollment in the new Voluntary Renewable Energy Rider.

Nature of Service - The BWL will provide green power to the system per the participant enrollment; however, the BWL cannot guarantee that the actual electricity delivered to each participant's Service Location at any specific time will be produced from a green supply resource.

Monthly Rate - Service Locations participating in this Rider will receive an additional charge for monthly energy of \$7.50 per month for each 250 kWh block of electricity they choose to purchase under this rider.

Minimum Bill - If the participant's actual monthly consumption at the enrolled Service Location is less than the kWh block(s) in the contract, the participant will be charged for the full month's premium.

Term and Form of Contract - All participants for this service under this rider will require a written contract stating the number of blocks, block size and the specified period of time in which they will be enrolled. No contract shall extend past December 31, 2018, the expiration date of this rider.



VOLUNTARY RENEWABLE ENERGY RIDER

Availability - This rider is available to customers making use of any kWh metered BWL Electric Rate Schedule. The program will be capped based on availability of renewable energy. The BWL anticipates that renewable energy under this rider will be available in 2019.

Nature of Service - The BWL will provide renewable energy to enrolled participants; however, the BWL cannot guarantee that the actual electricity delivered to each participant's Service Location at any specific time will be produced from a renewable energy resource. The renewable energy will be provided in blocks of 250 kWh, with each participant determining the number of blocks they wish to purchase for a Service Location. The participant will be billed for the number of renewable energy blocks purchased, regardless of actual kWh usage at the enrolled Service Location. If more blocks are purchased than actual kWh usage at the enrolled Service Location, the participant is eligible to claim their enrolled Service Location is served with 100% renewable energy, as renewable energy credits associated with the renewable energy purchased through this rider will be retired and will not be used to fulfill BWL's renewable energy compliance requirements or otherwise disposed of.

Enrollment for this rider will begin February 1, 2018. Customers with Service Locations participating in the current Renewable Electric Energy Rider, also known as "Green Wise", will have priority in the allocation of available renewable energy. All other participants will receive allocations in the date order of their enrollment in the program, subject to a cap by customer class (Residential, Commercial, Industrial, and Other) based on the historical distribution of BWL retail electric sales.

Monthly Rate - BWL will publish the rider block price in September 2018. This price will increase or decrease from time to time based on cost and availability of renewable energy resources.

Term and Form of Contract - If enrollment exceeds the initially available renewable energy resources, all new non-residential participants will be subject to a contract stating the number of blocks they will be purchasing and the period of time they will be enrolled in the rider.



SCHEDULED CURTAILMENT/INTERRUPTIBLE ELECTRIC SERVICE RIDER

Availability - This rider is available to customers on Primary Electric Service Rate No. 5, Primary High Load Factor Electric Service Rate No. 85, or Large Capacity Electric Service Rate No. 8 and any applicable future primary or transmission service rate approved by the Commissioners. A customer desiring service under this rider must contract to curtail or interrupt its demand by 1,000 kW or more, upon notice by the Board of Water and Light (BWL). The amount of curtable or interruptible demand subject to this rider may be limited by the Commissioners in total and by customer.

Conditions of Curtailment/Interruption - The Commissioners may determine the total kW demand subject to this rider. The General Manager has authorization to negotiate with qualifying customers as to the following terms and conditions of this rider; [1] the customer kW demand subject to interruption or curtailment, [2] metering requirements, [3] the duration of any interruption or curtailment, [4] the notice period, and, [5] buy through provisions (if any).

The contract with the customer will contain the conditions under which the BWL will require curtailment or interruption. Any reduced rate available will include some contribution to fixed costs and depend upon the customer's individual circumstances.

The customer agrees to pay \$50 per kW for the highest 15-minute kW demand created during the curtailed or interrupted period plus replacement energy out of pocket cost plus 10% should the customer choose not to curtail or interrupt electric load.

In the event of an interruption or curtailment to customers on Primary High Load Factor Electric Service Rate No. 85, BWL will take the interruption or curtailment into account when calculating the annual load factor for the determination of rate eligibility as required for service under Rate 85.

Definitions

Curtailed load - The customer agrees to reduce electric load upon notice from the BWL

Interrupted load - The customer agrees to receive no electricity upon notice from the BWL



ELECTRIC ECONOMIC DEVELOPMENT RIDER

Purpose - The Board of Water & Light (BWL) provides economic incentives to its utility service customers with a goal of attracting new customers or growing the business of existing customers. The incentives are employed where, in the BWL's judgment: a) the incentive is a major determining factor for the customer to take or add BWL service(s), and b) use of the incentive will result in economic and other benefits to the BWL and its customers.

Availability - This rider is available to new or existing customers through Large General Service Rate 4, Primary Electric Service Rate 5, Primary High Load Factor Service Rate 85, or Large Capacity Electric Service Rate 8. The customer must commit to creating new load or significantly increasing existing load (e.g. 150 kW or greater) in On-Peak Billing Demand for Rates 5, 85, and 8, or Maximum Demand for Rate 4. The BWL will, in its sole discretion, determine the percentage and duration of the incentive offered to the customer. The customer may be required to enter into a written agreement that specifies its commitment to economic development and the BWL's incentives.

Monthly Discount

This rider provides for a discount on the Capacity Charge portion of the customer's monthly billing for the applicable Service Location. For Rates 5, 85 and 8, the discounted Capacity Charge is for the On-Peak Billing Demand only. For Rate 4, the discounted Capacity Charge is for the Maximum Demand only. The BWL will determine the appropriate discount on the new or increased load, which will not exceed the following schedule:

Capacity Charge Discount (kW)	
Years 1-2	Up to 50%
Years 3-4	Up to 30%
Years 5-6	Up to 10%

At the end of the incentive period and all years thereafter, the customer will be billed according to the appropriate rate.

Demand Eligible for Discount

For a new Service Location, the total On-Peak Billing Demand and/or Maximum Demand shall be eligible for the Capacity Charge discount of this rider.

For an existing Service Location, the BWL shall determine the contracted demand eligible for this rider, which may be based on the increase beyond the average of the three highest registered demands of historical load billed during the twelve (12) month period prior to the implementation of the incentive.



RESIDENTIAL WATER SERVICE RATE NO. 1

Availability - This rate is available to any single-family dwelling or multifamily dwelling of 4 units or less served by one meter.

Service under this rate is not available when a portion of the dwelling is used for commercial, industrial, or resale purposes unless the plumbing is so arranged that service for residential and non-residential purposes are metered separately at separate Service Locations.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2018</u>	
Basic Service Charge		Per Service Location per month or part thereof
<u>Meter Size</u>		
5/8" or 3/4"*	\$13.72	
1"	\$33.51	
1 ¼" or 1 ½"	\$74.72	
2"	\$131.37	
Commodity Charge	\$2.94	Per ccf of water

* The BWL standard residential installation is a 1" service line with a ¾" meter. The BWL reserves the right, in its sole judgment, to install 5/8" meters on any new service installation when circumstances warrant.

Power and Chemical Cost Adjustment - The power and chemical cost adjustment shall consist of an increase or decrease of 0.1¢ per ccf billed for each 0.1¢ increase or decrease in the average cost of power and chemicals required to deliver treated water to the customer's meter above or below 44.7¢ per ccf. The cost per ccf for the billing period shall consist of the weighted average cost of chemicals, electricity, steam and oil used in pumping and treatment facilities during the one month period preceding the month billed by two months.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of water, will be in addition to the rates set forth herein.

Minimum Bill - The Minimum Bill shall be the above Basic Service Charge.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Water Service incorporated herein by this reference.



GENERAL WATER SERVICE RATE NO. 2

Availability - This rate is available to any customer desiring water for any purpose when supplied at one Service Location through one meter. Service under this rate is not available for resale.

Monthly Rate - Shall be computed in accordance with the following charges:

<u>2/1/2018</u>	
Basic Service Charge	Per Service Location per month or part thereof
<u>Meter Size</u>	
5/8" or 3/4"*	\$13.72
1"	\$33.51
1 ¼" or 1 ½"	\$74.72
2"	\$131.37
3"	\$296.23
4"	\$528.08
6"	\$1,187.43
8"	\$2,109.73
10"	\$3,297.27
Commodity Charge	\$2.94 Per ccf of water

* The BWL standard residential installation is a 1" service line with a 3/4" meter. The BWL reserves the right, in its sole judgment, to install 5/8" meters on any new service installation when circumstances warrant.

Power and Chemical Cost Adjustment - The power and chemical cost adjustment shall consist of an increase or decrease of 0.1¢ per ccf billed for each 0.1¢ increase or decrease in the average cost of power and chemicals required to deliver treated water to the customer's meter above or below 44.7¢ per ccf. The cost per ccf for the billing period shall consist of the weighted average cost of chemicals, electricity, steam and oil used in pumping and treatment facilities during the one month period preceding the month billed by two months.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of water, will be in addition to the rates set forth herein.

Minimum Bill - The Minimum Bill shall be the above Basic Service Charge.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Water Service incorporated herein by this reference.



WATER SYSTEM CONNECTION FEES RATE NO. 3

System Connection Fees - The following schedule of fees shall apply to all new water service connections made to the mains. Existing active services that are being upgraded and replaced with a larger service shall receive an offset to the new service connection fee in the amount of the connection fee of the replaced service.

Service Connection to Main	<u>2/1/2018</u>
1" or smaller	\$1,055
1 ½"	\$2,315
2"	\$4,115
3"	\$4,629
4"	\$8,229
6"	\$18,515
8" and over	\$32,916

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of water, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Water Service incorporated herein by this reference.

**FIRE SERVICE
RATE NO. 4**

Fire Service - This rate is available to any Board of Water and Light customer desiring water service for fire protection purposes. A fire service line will be installed to a fire protection device or a customer's detector check valve in accordance with the schedule of charges for water system connection fees (Rate 3) and the current water service installation charges set forth in the Rules and Regulations for Water Service. The location of the detector check valve shall be determined by the Board of Water and Light.

Fire service lines shall be used for fire protection purposes only. No additional charges will be made for water used for routine testing and for fire response purposes. The customer shall maintain the detector check valve and fire protection system connected thereto in good condition in compliance with the BWL Cross Connection Control Program and local jurisdiction fire code.

Monthly Fire Service Charge - Water supply and maintenance of a fire service line to a fire protection device or a detector check valve shall be provided in accordance with the following schedule of charges:

Service Size	<u>2/1/2018</u>
4" or smaller	\$82
6"	\$187
8"	\$329
10" or larger	\$514

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of water, will be in addition to the rates set forth herein.

Minimum Bill - Billings subject to this rate are not subject to a Minimum Bill.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Water Service incorporated herein by this reference.



LAWN SPRINKLING WATER SERVICE RATE NO. 5

Availability - This rate is available to any customer served on the BWL's water system where the water service is installed and utilized solely for lawn and landscape sprinkling at the Service Location. Municipalities having jurisdiction over sewer system rates may designate other uses of water which are subject to this rate.

Monthly Rate - Shall be computed in accordance with the following charges:

Basic Service Charge

Billings subject to this rate are not subject to a Basic Service Charge.

Commodity Charge

2/1/2018

\$2.94 Per ccf of water

Power and Chemical Cost Adjustment - The power and chemical cost adjustment shall consist of an increase or decrease of 0.1¢ per ccf billed for each 0.1¢ increase or decrease in the average cost of power and chemicals required to deliver treated water to the customer's meter above or below 44.7¢ per ccf. The cost per ccf for the billing period shall consist of the weighted average cost of chemicals, electricity, steam and oil used in pumping and treatment facilities during the one month period preceding the month billed by two months.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of water, will be in addition to the rates set forth herein.

Minimum Bill - Billings subject to this rate are not subject to a Minimum Bill.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Water Service incorporated herein by this reference.



**FIRE HYDRANT CHARGES
RATE NO. 6**

Annual Fire Hydrant Charge - Water supply and maintenance of a fire service line to a public or private fire hydrant shall be provided in accordance with the following annual schedule of charges:

2/1/2018

Per Hydrant	\$545
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Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of water, will be in addition to the rates set forth herein.

Minimum Bill - Billings subject to this rate are not subject to a Minimum Bill.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Water Service incorporated herein by this reference.



GENERAL STEAM SERVICE RATE NO. 1

Availability - This rate is available to any customer receiving service from the Board of Water and Light (BWL) steam distribution system with a maximum gauge pressure of fifteen pounds per square inch (15 psi).

Nature of Service - Saturated steam up to a maximum gauge pressure of 15 psi. Upon request, steam services at gauge pressures above 15 psi but not exceeding 100 psi, when available, may be supplied at the option of the BWL.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2018</u>
Basic Service Charge	\$14.31 Per Service Location per month
Commodity Charge	
Months of June through November	\$16.32 Per 1,000 lbs. for the first 200,000 lbs. \$17.13 Per 1,000 lbs. for all 1,000 lbs. over 200,000 lbs.
Months of December through May	\$16.51 Per 1,000 lbs. for the first 200,000 lbs. \$17.34 Per 1,000 lbs. for all 1,000 lbs. over 200,000 lbs.

Surcharge - A surcharge of ten (10) percent shall be added to the above rates for steam service supplied upon customer's request for service at gauge pressure above 15 psi but not exceeding 100 psi.

Fuel Cost Adjustment - This rate is subject to a Fuel Cost Adjustment factor added to the above charges and calculated as defined on a separate rate schedule incorporated herein by this reference.

Amine Treatment Adjustment - The amine treatment adjustment allows for the monthly adjustment of rates to reflect the actual cost incurred due to amine feed. The factor shall be applied to each 1,000 pounds (lbs.) billed. The factor shall consist of 1.124 times the weighted average amine cost per 1,000 lbs. treated during the previous month.

Steam Environmental Charge - This rate is subject to a Steam Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of steam, will be in addition to the rates set forth herein.

Minimum Charge - The Basic Service Charge included in the rate except that Special Minimum Charges shall be billed when the revenue received does not adequately compensate the BWL for the cost of furnishing service.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Reconnect Charge - A reconnect charge shall be added to any Service Location which discontinues and reconnects service at the same Service Location within a twelve (12) month period. The reconnect charge is specified in the BWL Rules and Regulations for Steam Service.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Steam Service incorporated herein by this reference.



Monthly Rate - Shall be computed in accordance with the following charges:

Demand Charge

Excess Demand	\$1.42 Per pound per hour (lb/hr) for all lb/hrs exceeding contract demand
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Commodity Charge	\$10.04 Per 1,000 lbs. (Mlbs.)
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Steam Environmental Charge - This rate is subject to a Steam Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of steam, will be in addition to the rates set forth herein.

Minimum Charge - Monthly Contract Demand Charge above.

Billing Demand - The billing demand is the maximum demand (lb/hrs) supplied during the 15-minute period of maximum use during the month, but not less than the contract demand.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Steam Service incorporated herein by this reference.



**CONTRACT STEAM SERVICE
RATE NO. 3**

Availability - This rate is available to any customer receiving service from the Board of Water and Light (BWL) steam transmission or distribution system with a gauge pressure in excess of 100 psi. Service will be provided upon customer entering into a steam supply contract with the BWL. Terms and conditions of the contract may vary due to customer requirements and the impact on BWL facilities. This service may include both firm and curtailable service.

Monthly Rate - Per contract terms.

Fuel Cost Adjustment - This rate is subject to a Fuel Cost Adjustment factor added to the charges and calculated as defined on a separate rate schedule incorporated herein by this reference.

Steam Environmental Charge - Per contract terms.

Amine Treatment Adjustment - Per contract terms.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of steam, will be in addition to the rates set forth herein.

Minimum Charge - Per contract terms.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Steam Service incorporated herein by this reference.



RESIDENTIAL STEAM SERVICE RATE NO. 5

Availability - This rate is available to any single-family dwelling or multifamily dwelling of 4 units or less when the entire service requirements are supplied at one Service Location through one meter.

Service under this rate is not available when a portion of the dwelling unit is used for commercial, industrial, or resale purposes unless the service is so arranged that residential and non-residential purposes are metered separately at separate Service Locations.

Nature of Service - Saturated steam up to a maximum gauge pressure of 15 psi. Steam services at gauge pressures above 15 psi but not exceeding 100 psi, when available, may be supplied at the option of the BWL or upon request by the customer.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2018</u>
Basic Service Charge	\$10.60 Per Service Location per month
Commodity Charge	
Months of June through November	\$12.64 Per 1,000 lbs. for the first 200,000 lbs. \$13.23 Per 1,000 lbs. for all 1,000 lbs. over 200,000 lbs.
Months of December through May	\$12.79 Per 1,000 lbs. for the first 200,000 lbs. \$13.39 Per 1,000 lbs. for all 1,000 lbs. over 200,000 lbs.

Surcharge - A surcharge of ten (10) percent shall be added to the above rates for steam service supplied upon customer's request for service at gauge pressure above 15 psi but not exceeding 100 psi.

Fuel Cost Adjustment - This rate is subject to a Fuel Cost Adjustment factor added to the above charges and calculated as defined on a separate rate schedule incorporated herein by this reference.

Amine Treatment Adjustment - The amine treatment adjustment allows for the monthly adjustment of rates to reflect the actual cost incurred due to amine feed. The factor shall be applied to each 1,000 pounds (lbs.) billed. The factor shall consist of 1.124 times the weighted average amine cost per 1,000 lbs. treated during the previous month.

Steam Environmental Charge - This rate is subject to a Steam Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of steam, will be in addition to the rates set forth herein.

Minimum Charge - The Basic Service Charge included in the rate except that Special Minimum Charges shall be billed when the revenue received does not adequately compensate the BWL for the cost of furnishing service.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Reconnect Charge - A reconnect charge shall be added to any Service Location which discontinues and reconnects service at the same Service Location within a twelve (12) month period. The reconnect charge is specified in the BWL Rules and Regulations for Steam Service.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Steam Service incorporated herein by this reference.



STEAM ENVIRONMENTAL CHARGE

Purpose - The Steam Environmental Charge permits the recovery of costs and expenses incurred from environmental remediation and mitigation activities that are required as a matter of agreement, order, decree, or law. All residential, general service, contract, and industrial rates are subject to the Steam Environmental Charge, with the Charge added to the Mlbs cost of each Mlbs billed. All revenues collected from the Steam Environmental Charge will be directly applied to offset these environmental expense and associated Return on Equity expenses. The Steam Environmental Charge shall be reviewed and revised periodically until the balance is zero. Should the Steam Environmental Charge collect revenues in excess of environmental expenses, the difference shall be refunded to the applicable rates.

The Steam Environmental Charge shall be reviewed and revised periodically in accordance with the provisions of this schedule.

Environmental Charge - The current Environmental Charge is **\$0.30/Mlbs**.



STEAM FUEL COST ADJUSTMENT

Purpose - The Fuel Cost Adjustment permits the monthly adjustment of rates for the costs of fuel incurred in supplying steam. All general, contract, industrial and residential service rates are subject to the Fuel Cost Adjustment. In applying the Fuel Cost Adjustment, the applicable rate per Mlbs. shall be increased or decreased by the amount of the current Fuel Cost Adjustment.

The Fuel Cost Adjustment shall be reviewed and, as necessary, revised periodically in accordance with the provisions of this schedule, but not less frequently than every twelve months.

Fuel Cost Adjustment - the amount per Mlbs. by which the applicable rates shall be adjusted for billing in each month.

Fuel Costs - those costs incurred in supplying steam. Costs include, but are not limited to, fuel burned and fuel related cost, fuel transportation, pre and post combustion fuel additives, fuel procurement, and environmental allowances.

Over/Under Recovery - the difference between actual Fuel Costs for prior months and the amount of Fuel Cost recovered by means of the Base Cost of Fuel and the Fuel Cost Adjustment. The Over/Under Recovery shall be added to the Fuel Costs for purposes of computing the Fuel Cost Adjustment for each month.

Base Cost of Fuel - the average Fuel Cost included in the fuel rates of the various rate schedules. Such amount shall not be recovered by means of the Fuel Cost Adjustment. The current Base Cost of Fuel is \$4.7831 per thousand pounds of steam (Mlbs.) sold.



GENERAL CHILLED WATER SERVICE RATE NO. 1

Availability - This rate is available to any customer desiring service from the Board of Water and Light (BWL) district cooling system. Service will be provided upon the customer entering into a contract with the BWL. The contract will govern the customer's contract demand and terms and conditions of service, which may vary due to customer requirements and the impact on BWL facilities. This rate is not available for standby or emergency service.

Monthly Rate - Shall be computed in accordance with the following charges:

2/1/2018

Capacity Charge

Contract Demand	\$45.05	Per ton for all tons of billing demand less than or equal to 105% of the contract demand
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Excess Demand	\$63.08	Per ton for all tons of billing demand exceeding 105% of the contract demand
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Commodity Charge	\$0.128	Per ton-hour
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Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of chilled water, will be in addition to the rates set forth herein.

Minimum Monthly Charge - The Capacity Charge included in the rate.

Billing Demand - The Billing Demand shall be the maximum demand (tons) supplied during the 15-minute period of maximum use, but not less than 85% of the Contract Demand. The General Manager is authorized to waive Billing Demand in excess of 105% of the Contract Demand where such Billing Demand is incurred is the result of emergency conditions at a Service Location and such emergency condition is caused by equipment or piping failure and the BWL concurs in the existence of an emergency condition.

Temperature Factor Adjustment - During the months of May through October; if the Service Location's return water temperature is below 52 degrees Fahrenheit (F), the Service Location's commodity charge will be increased by 2.0% for either; (1) each degree Fahrenheit the Service Location's supply and return water temperature differential is less than 10 degrees F or, (2) each degree Fahrenheit the Service Location's return water temperature is below 52 degrees F, whichever is less. The General Manager is authorized to waive the application of the Temperature Factor Adjustment where warranted.

Metering - All Service Locations using chilled water from the BWL chilled water system shall be metered. The BWL shall determine the form in which the commodity shall be metered.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Chilled Water Service incorporated herein by this reference.



CHILLED WATER ECONOMIC DEVELOPMENT RIDER

Purpose - The Board of Water & Light (BWL) provides economic incentives to its utility service customers with a goal of attracting new customers or growing the business of existing customers. The incentives are employed where, in the BWL's judgment: a) the incentive is a major determining factor for the customer to take or add BWL service(s), and b) use of the incentive will result in economic and other benefits to the BWL and its customers.

Availability - This rider is available to new or existing customers through General Chilled Water Service Rate No. 1. The customer must commit to creating new load or significantly increasing existing load. The BWL will, in its sole discretion, determine the percentage and duration of the incentive offered to the customer. The customer may be required to enter into a written agreement that specifies its commitment to economic development and the BWL's incentives.

Monthly Rate

This rider provides for a discount on the Capacity Charge portion of the customer's monthly billing for the applicable Service Location. The BWL will determine the appropriate Capacity Charge, which will not be less than the following schedule:

Discounted Capacity Charge (per ton)	
Years 1-2	Not less than \$10.00
Years 3-4	Not less than \$20.00
Years 5-6	Not less than \$30.00

At the end of the incentive period and all years thereafter, the customer will be billed the standard Capacity Charge as listed in the General Chilled Water Service Rate 1.

Capacity Eligible for Discount

For a new Service Location, the total Billing Demand shall be eligible for the discounted rate of this rider.

For an existing Service Location, the BWL shall determine the contracted demand eligible for this rider, which may be based on the increase beyond the average of the three highest registered demands of historical load billed during the twelve (12) month period prior to the implementation of the incentive.



RESIDENTIAL ELECTRIC SERVICE RATE NO. 1

Availability - This rate is available to any single-family dwelling or multifamily dwelling of 4 units or less when the entire electric requirements are supplied at one Service Location through one meter. Service to appurtenant buildings may be taken through the same meter.

Service under this rate is not available when a portion of the dwelling or an appurtenant building is used for commercial, industrial, or resale purposes unless the wiring is so arranged that service for residential and non-residential purposes are metered separately at separate Service Locations.

Nature of Service - The service is alternating current, 60 hertz, single phase, 120/240 nominal volts.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2019</u>
Basic Service Charge	\$16.00 Per Service Location per month
Commodity Charge	
Summer Months of June through October	\$0.1235 Per kWh for the first 500 kWh \$0.1290 Per kWh for all kWh over 500 kWh
Winter Months of November through May	\$0.1235 Per kWh for the first 500 kWh \$0.1270 Per kWh for all kWh over 500 kWh

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



GENERAL ELECTRIC SERVICE RATE NO. 3

Availability - This rate is available to any customer desiring secondary voltage service for any purpose when supplied at one Service Location through one meter. The limitation to secondary-voltage service may be waived at the sole discretion of the BWL. This rate is not available for emergency service, standby service, auxiliary service, or resale.

Nature of Service - The service is alternating current, 60 hertz, single phase or three phase. The secondary voltage is determined by the Board of Water and Light (BWL).

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2019</u>	
Basic Service Charge	\$32.00	Per Service Location per month
Commodity Charge		
Summer Months of June through October	\$0.1443	Per kWh for all kWh
Winter Months of November through May	\$0.1404	Per kWh for all kWh

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Metering - Where the BWL elects to measure the service on the primary side of the transformers, the metered kWh thus measured will be reduced by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, the consumption as registered by the different meters will not be combined for billing purposes but will be computed and billed separately.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



LARGE GENERAL ELECTRIC SERVICE RATE NO. 4

Availability - This rate is available to any customer desiring secondary voltage for any purpose when the electrical requirements are supplied at one Service Location through one metering installation and the Maximum Demand is 15 kW or more. The limitation to secondary-voltage service may be waived at the sole discretion of the BWL. This rate is not available for emergency service, standby service, auxiliary service, or resale.

Nature of Service - The service is alternating current, 60 hertz, single phase or three phase. The secondary voltage is determined by the Board of Water and Light (BWL).

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2019</u>
Basic Service Charge	\$150.00 Per Service Location per month
Capacity Charge	\$17.25 Per kW for all kW of Maximum Demand
Commodity Charge	
Summer Months of June through October	\$0.0789 Per kWh for all kWh
Winter Months of November through May	\$0.0744 Per kWh for all kWh
Reactive Power Charge	\$0.0106 Per kvarh in excess of 50% of total kWh

The Reactive Power Charge shall be applicable to customers who have reactive kilovar hour (kvarh) metering installed in accordance with BWL Rules and Regulations regarding power factor.

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate plus the Maximum Demand charge as defined below.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Maximum Demand - The Maximum Demand shall be the kW supplied during the 15-minute period of maximum use during the billing month, but the Capacity Charge shall never be less than 50% of the highest Maximum Demand of the preceding 11 billing months.

The Maximum Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

Metering - Where the BWL elects to measure the service on the primary side of the transformer, the metered kW and kWh thus measured will be reduced by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, the consumption as registered by the different meters will not be combined for billing purposes but will be computed and billed separately.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



PRIMARY ELECTRIC SERVICE RATE NO. 5

Availability - This rate is available to any customer desiring primary voltage service when the electrical requirements are supplied at one Service Location through one metering installation (except as provided below for Multiple Service Location Aggregation) and the On-Peak Billing Demand is 100 kW or more. This rate is not available for emergency service, standby service, auxiliary service, or resale.

Nature of Service - The service is alternating current, 60 hertz, three phase. The primary voltage is determined by the Board of Water and Light (BWL).

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2019</u>	
Basic Service Charge	\$255.00	Per Service Location per month
Capacity Charge		
On-Peak Billing Demand	\$13.70	Per kW for all kW of On-Peak Billing Demand
Maximum Demand	\$5.50	Per kW for all kW of Maximum Demand
Commodity Charge		
Summer Months of June through October	\$0.0730	Per kWh for all kWh during the On-Peak Period
	\$0.0686	Per kWh for all kWh during the Off-Peak Period
Winter Months of November through May	\$0.0706	Per kWh for all kWh during the On-Peak Period
	\$0.0686	Per kWh for all kWh during the Off-Peak Period
Reactive Power Charge	\$0.0106	Per kvarh in excess of 50% of total kWh

The Reactive Power Charge shall be applicable to customers who have reactive kilovar hour (kvarh) metering installed in accordance with BWL Rules and Regulations regarding power factor.

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate plus the On-Peak Billing Demand charge and Maximum Demand charge as defined below.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

On-Peak Billing Demand - The On-Peak Billing Demand shall be the kW supplied during the 15-minute period of maximum use during the On-Peak Period during the billing month.

The On-Peak Billing Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

Maximum Demand - The Maximum Demand shall be the kW supplied during the 15-minute period of maximum use during the billing month, whether on-peak or off-peak, but the Maximum Demand charge shall never be less than 50% of the highest Maximum Demand of the preceding 11 billing months.

The Maximum Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

Schedule of on-peak and off-peak periods - The On-Peak Period shall be from 10:00 a.m. until 6:00 p.m., Monday through Friday. All other hours shall comprise the Off-Peak Period.

Multiple Service Location Aggregation - The 15-minute period demands of multiple Service Locations of a customer may be summed for determination of the total On-Peak Billing Demand under the following conditions: (a) the Maximum Demand at each Service Location must equal or exceed 100 kW; (b) the total On-Peak Billing Demand shall not be less than 4,000 kW; and (c) the customer shall agree to a service contract with the BWL for the customer's full electrical service requirements at the aggregated Service Locations for a period of not less than five (5) years. Aggregation shall be applicable for determination of the On-Peak Billing Demand only. All other charges, including the Basic Service Charge and Maximum Demand, shall apply to each Service Location independently.

Metering - Where the BWL elects to measure the service on the secondary side of the transformers, the metered kW and kWh thus measured will be increased by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, consumption as registered by the different meters will not be combined for billing purposes but will be billed and computed separately except as provided for in Multiple Service Location Aggregation.

Equipment Supplied by Customer - The customer shall be responsible for furnishing, installing and maintaining all necessary transforming, controlling and protective equipment required for service beyond the BWL primary-voltage Service Location. At the sole option of the BWL, a customer may lease such transformers or other equipment from the BWL under terms established by the BWL.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



MUNICIPAL WATER PUMPING ELECTRIC SERVICE RATE NO. 7

Availability - This rate is available to any political subdivision or agency of the State of Michigan desiring service for potable water pumping and associated potable water production equipment when the entire electrical requirements are supplied at one Service Location through one meter. This rate is not available for emergency service, standby service, auxiliary service, or resale.

Nature of Service - The service is alternating current, 60 hertz, three phase. The secondary or primary voltage is determined by the BWL.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2019</u>
Basic Service Charge	\$24.00 Per Service Location per month
Commodity Charge	\$0.1232 Per kWh for all kWh

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Metering - For customers taking secondary voltage from the BWL and where the BWL elects to measure the service on the primary side of the transformers, the metered kWh thus measured will be reduced by 3% for billing purposes to adjust for transformer losses. For customers taking primary voltage from the BWL and where the BWL elects to measure the service on the secondary side of the transformers, the metered kWh thus measured will be increased by 3% for billing purposes to adjust for transformer losses.

Where the customer receives service through more than one meter, the consumption as registered by the different meters will not be combined for billing purposes but will be computed and billed separately.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



LARGE CAPACITY ELECTRIC SERVICE RATE NO. 8

Availability - This rate is available to any customer desiring primary voltage service when: (a) the electrical requirements are supplied at one or more Service Locations as provided below for Multiple Service Location Aggregation; (b) where the total On-Peak Billing Demand is 25,000 kW or more; and (c) the customer agrees to a service contract with the BWL for the customer's full electrical service requirements at the applicable Service Locations for a period of not less than ten (10) years. This rate is not available for emergency service, standby service, auxiliary service, or resale.

Nature of Service - The service is alternating current, 60 hertz, three phase. The primary voltage is determined by the Board of Water and Light (BWL).

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2019</u>	
Basic Service Charge	\$460.00	Per Service Location per month
Capacity Charge		
On-Peak Billing Demand	\$15.00	Per kW for all kW of On-Peak Billing Demand
Maximum Demand	\$2.50	Per kW for all kW of Maximum Demand
Commodity Charge		
Summer Months of June through October	\$0.0753	Per kWh for all kWh during the On-Peak Period
	\$0.0697	Per kWh for all kWh during the Off-Peak Period
Winter Months of November through May	\$0.0737	Per kWh for all kWh during the On-Peak Period
	\$0.0697	Per kWh for all kWh during the Off-Peak Period
Reactive Power Charge	\$0.0106	Per kvarh in excess of 50% of total kWh

The Reactive Power Charge shall be applicable to customers who have reactive kilovar hour (kvarh) metering installed in accordance with BWL Rules and Regulations regarding power factor.

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate plus the On-Peak Billing Demand charge and Maximum Demand charge as defined below.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

On-Peak Billing Demand: The On-Peak Billing Demand shall be the total kW supplied to all applicable Service Locations during the 15-minute period of maximum use during the On-Peak Period during the month (See Multiple Service Location Aggregation).

The On-Peak Billing Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

Maximum Demand: The Maximum Demand for each Service Location shall be the kW supplied during the 15-minute period of maximum use during the month whether on-peak or off-peak, but the Maximum Demand charge shall never be less than 1,000 kW.

The Maximum Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

Schedule of on-peak and off-peak periods - The On-Peak Period shall be from 10:00 a.m. until 6:00 p.m., Monday through Friday. All other hours shall comprise the Off-Peak Period.

Multiple Service Location Aggregation - The 15-minute period demands of multiple Service Locations of a customer shall be summed for determination of the total On-Peak Billing Demand if the Maximum Demand determined at each Service Location equals or exceeds 1,000 kW. Aggregation shall be applicable for determination of the On-Peak Billing Demand only. All other charges, including the Basic Service Charge and Maximum Demand, shall apply to each Service Location independently.

Metering - Where the BWL elects to measure the service on the secondary side of the transformers, the metered kW and kWh thus measured will be increased by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, consumption as registered by the different meters will not be combined for billing purposes but will be billed and computed separately except as provided for in Multiple Service Location Aggregation.

Equipment Supplied by Customer - The customer shall be responsible for furnishing, installing and maintaining all necessary transforming, controlling and protective equipment required for service beyond the BWL primary-voltage Service Location. At the sole option of the BWL, a customer may lease such transformers or other equipment from the BWL under terms established by the BWL.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



OUTDOOR LIGHTING SERVICE RATE NO. 9

Availability - This rate is available to any customer located within the Board of Water and Light (BWL) service area for dusk to dawn lighting of a Service Location's premises. The BWL furnishes and maintains all lights. The installation will overhang private property from existing or new poles set at points accessible to BWL construction and maintenance equipment. This rate is not available for purposes of street, highway, or public thoroughfare lighting.

Monthly Rate - Shall be computed in accordance with the following charges:

<i>Luminaires on Overhead Mast Arm on existing BWL poles</i>	<i>2/1/2019</i>
High Pressure Sodium¹	
100 W	\$13.20
250 W	\$20.96
400 W	\$23.82
Mercury Vapor²	
175 W	\$13.86
400 W	\$23.82
LED End Mount	
1-19 W	\$9.70
20-39 W	\$10.24
40-59 W	\$10.79
60-79 W	\$11.34
80-99 W	\$11.89
100-119 W	\$12.43
120-139 W	\$12.98
140-159 W	\$13.53
160-179 W	\$14.07
180-199 W	\$14.62
200-219 W	\$15.17
220-239 W	\$15.72
240-259 W	\$16.26
260-279 W	\$16.81
280-299 W	\$17.36
300-319 W	\$17.91
320-339 W	\$18.45
340-359 W	\$19.00
360-379 W	\$19.55
380-399 W	\$20.09

¹ Rates apply to existing luminaires and are subject to cost and availability for new business.

² Rates apply to existing luminaires only and are not open to new business.

Floodlighting Luminaires on Bracket Arm on existing BWL poles	2/1/2019
High Pressure Sodium³	
100 W	\$17.55
250 W	\$23.62
400 W	\$27.70
Metal Halide³	
400 W	\$34.42
1000 W	\$59.55
1500 W	\$82.63
LED Flood	
1-19 W	\$11.33
20-39 W	\$11.87
40-59 W	\$12.42
60-79 W	\$12.97
80-99 W	\$13.51
100-119 W	\$14.06
120-139 W	\$14.61
140-159 W	\$15.16
160-179 W	\$15.70
180-199 W	\$16.25
200-219 W	\$16.80
220-239 W	\$17.35
240-259 W	\$17.89
260-279 W	\$18.44
280-299 W	\$18.99
300-319 W	\$19.53
320-339 W	\$20.08
340-359 W	\$20.63
360-379 W	\$21.19
380-399 W	\$21.73

In the event additional facilities or rearrangement of existing facilities is required, the BWL shall install, operate and maintain such facilities for the following monthly charges.

Type of Facilities	2/1/2019
35-foot wood poles including span of overhead secondary extension	\$14.99 Per pole
37-foot concrete pole including span of overhead secondary extension	\$24.86 Per pole
Other facilities, hand set poles, or rearrangement of existing facilities	1.67% Of estimated cost

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.

³ Rates apply to existing luminaires and are subject to cost and availability for new business.

Service Contract - A written service agreement shall be entered into to take BWL service for a term of years determined as follows:

- a) One year, if additional facilities are not required, or
- b) Three years, if additional facilities are required
- c) Five years, for metal halide lamps or if monthly facilities charges are calculated at 1.67% of estimated cost,
- d) Ten years, if special contractual arrangements are made.

In the event the customer discontinues service before the end of the agreement term, the established rate for the remaining portion of the agreement shall immediately become due and payable. The BWL will replace lamps or make repairs when practicable after the customer has reported that the installation requires servicing. Such replacements and repairs will be made during regular working hours. The BWL may refuse or restrict the service provided in this rate to seasonal type customers and/or may require such customers to pay for the service annually in advance where the permanency of the customer is doubtful or has not been demonstrated by the customer. If relocation, including adjustment, of the outdoor protective light or relocation of other facilities used in connection with the light is desired by the customer during the term of the contract, the BWL will provide this service, if feasible, at the customer's expense.



UNMETERED DEVICE SERVICE RATE NO. 11

Availability - This rate is available to the US Government, any political subdivision or agency of the State of Michigan, and any public or private school district for lamp installations maintained for traffic regulation or guidance, as distinguished from street illumination and police signal systems. This rate is also available to other Unmetered Devices, such as Community Antenna Television Service Companies (CATV), wireless access companies, or security camera companies for unmetered Power Supply Units. Where the BWL's total investment to serve an individual Service Location exceeds three times the annual revenue to be derived from such Service Location, a contribution to BWL shall be required for the excess.

Nature of Service - The service is alternating current, 60 hertz, single phase, 120/240 nominal volts.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2019</u>	
Basic Service Charge	\$4.00	Per Service Location per month
Commodity Charge	\$0.0803	Per kWh for all kWh

The actual labor, material, miscellaneous and indirect charges experienced maintaining and relamping traffic signals during the preceding month.

Determination of kWh - Monthly kWh shall be determined by multiplying the total connected load in kW (including the lamps, ballasts, transformers, amplifiers, and control devices) times 730 hours.

The kWh for cyclical devices shall be 50% of the total kWh so calculated.

The kWh of continuous, non-intermittent devices shall be 100% of the total kWh so calculated.

The kWh of devices used for the control of school traffic, and operated not more than six hours per day during the school year only, shall be 10% of the continuous or cyclical kWh so calculated.

The kWh for CATV Power Supply Units shall be 50% of the total kWh as determined from the manufacturer's rated input capacity of the Power Supply Units or the actual test load, whichever is greater.

The kWh for Wireless Access and Security Camera Power Supply Units shall be 100% of the total kWh as determined from the manufacturer's rated input capacity of the Power Supply Units or the actual test load, whichever is greater.

The BWL may, at its option, install test meters for the purpose of determining the monthly kWh usage to be used for billing purposes.

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



SPACE CONDITIONING AND ELECTRIC WATER HEATING SERVICE RATE NO. 12

Availability - This rate is available to any customer desiring service for commercial/industrial space conditioning and/or electric water heating furnished through a separate meter to which no other electrical device except electric space heating, electric air conditioning, humidity control equipment or electric water heating equipment may be connected. Electric space heating will be considered to include heating by light system provided the primary means of space heating at the time of maximum heating requirements will be furnished by the lighting system with the balance of the heating requirements furnished by supplementary electric heating equipment. This rate is not available to new applications for heat for light systems received after March 1, 1979. This rate is not applicable to the use of electricity for electric air conditioning unless the customer has permanently installed electric space heating equipment and uses it as the principal source of space heating, or to the use of electricity for occasional or seasonal substitute for another method of water heating. This rate is not available for emergency service, standby service, auxiliary service, or resale.

Nature of Service - The service is alternating current, 60 hertz, single phase at Board of Water and Light (BWL) available secondary voltage. Three phase service will be furnished at BWL option. The secondary voltage is determined by the BWL.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2019</u>	
Basic Service Charge	\$40.00	Per Service Location per month
Commodity Charge		
Summer Months of June through October	\$0.1563	Per kWh for all kWh
Winter Months of November through May	\$0.1132	Per kWh for all kWh

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Metering - Where the BWL elects to measure the service on the primary side of the transformers, the metered kWh thus measured will be reduced by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, the consumption as registered by the different meters will not be combined for billing purposes but will be computed and billed separately.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



RESIDENTIAL ELECTRIC SERVICE, SENIOR CITIZEN RATE NO. 21

Availability - This rate is available to any Service Location that qualifies for Electric Rate No. 1 where the customer is 65 years of age or older and head of the household being served.

Nature of Service - The service is alternating current, 60 hertz, single phase, 120/240 nominal volts.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2019</u>	
Basic Service Charge	\$11.25	Per Service Location per month
Commodity Charge		
Block 1	\$0.0860	Per kWh for the first 300 kWh
Block 2	\$0.1509	Per kWh for the next 200 kWh
Block 3	\$0.1860	Per kWh for all kWh over 500 kWh

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



RESIDENTIAL PLUG-IN ELECTRIC VEHICLE CHARGING SERVICE RATE NO. 22

Availability - The Residential Plug-in Electric Vehicle Charging Rate is a voluntary rate available to any Service Location that qualifies for Electric Rate No. 1 where separately metered Electric Vehicle Supply Equipment (EVSE) capable of providing Level 2 charging for plug-in electric motor vehicles is installed.

“EVSE” means a device or apparatus, including vehicle supply cable, connector, internal relays and controls designed specifically for the purpose of delivering energy from the premises wiring to a plug-in-electric motor vehicle. This equipment must meet or exceed all applicable codes, standards, and required practices.

“Level 2 Charging” means providing 208 – 240 volt single phase alternating current energy to an onboard charger of an electric motor vehicle with a maximum current specified by the vehicle manufacturer.

Nature of Service - The service is alternating current, 60 hertz, single phase, 208 to 240 nominal volts, Level 2 Charging as defined. However, the new circuit protective device rating shall not to exceed 100 amperes.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2019</u>
Basic Service Charge	\$1.95 Per Service Location per month
Commodity Charge	
Off-Peak Energy	\$0.0821 Per kWh for all Off-Peak kWh
On-Peak Energy	\$0.1715 Per kWh for all On-Peak kWh

Schedule of On-Peak and Off-Peak Periods - The On-Peak Period shall be from 7:00 a.m. until 11:00 p.m., Monday through Friday. All other hours shall comprise the Off-Peak Period.

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



**STREET LIGHTING SERVICE
BWL OWNED SYSTEMS
RATE NO. 31**

Availability - Available to any political subdivision or agency of the State of Michigan for street lighting service for any system consisting of one or more luminaires where the BWL has an existing distribution system with secondary voltage available. Luminaires may be installed with no limitations as to spacing between luminaires. Where an overhead line extension is required to serve one or more luminaires, the BWL will furnish 350 linear feet of line extension per luminaire served from such extension.

Nature of Service - The BWL will furnish, install, own, operate, and maintain all equipment comprising the street lighting system, and supply the unmetered energy. The BWL reserves the right to furnish service from either a series or multiple system or both.

Annual Rate - Shall be computed in accordance with the following charges, payable in twelve (12) monthly installments:

	2/1/2019
High Pressure Sodium Luminaire¹	
70 W	\$106
100 W	\$121
150 W	\$141
250 W	\$171
400 W	\$218
1000 W	\$447
Mercury Vapor Luminaire²	
100 W	\$113
175 W	\$137
250 W	\$162
400 W	\$207
1000 W	\$392
Metal Halide Luminaire¹	
175 W ²	\$240
250 W ²	\$274
400 W	\$276
1000 W	\$535
1500 W	\$822
Induction Luminaire¹	
85 W	\$113
165 W	\$138
LED Decorative Luminaire	
1-19 W	\$142
20-39 W	\$148
40-59 W	\$155
60-79 W	\$162

¹ Rates apply to existing luminaires and are subject to cost and availability for new business.

² Rates apply to existing luminaires only and are not open to new business.

80-99 W	\$168
100-119 W	\$176
120-139 W	\$182
140-159 W	\$189
160-179 W	\$196
180-199 W	\$203
200-219 W	\$209
220-239 W	\$216
240-259 W	\$223
260-279 W	\$229
280-299 W	\$237
300-319 W	\$243
320-339 W	\$250
340-359 W	\$257
360-379 W	\$264
380-399 W	\$270
LED End Mount Luminaire	
1-19 W	\$120
20-39 W	\$127
40-59 W	\$134
60-79 W	\$141
80-99 W	\$147
100-119 W	\$154
120-139 W	\$161
140-159 W	\$167
160-179 W	\$175
180-199 W	\$181
200-219 W	\$188
220-239 W	\$195
240-259 W	\$202
260-279 W	\$208
280-299 W	\$215
300-319 W	\$222
320-339 W	\$228
340-359 W	\$236
360-379 W	\$242
380-399 W	\$249
LED Flood Luminaire	
1-19 W	\$140
20-39 W	\$147
40-59 W	\$154
60-79 W	\$161
80-99 W	\$167
100-119 W	\$175
120-139 W	\$181
140-159 W	\$188
160-179 W	\$195
180-199 W	\$201
200-219 W	\$208
220-239 W	\$215
240-259 W	\$222
260-279 W	\$228
280-299 W	\$236
300-319 W	\$242

320-339 W	\$249
340-359 W	\$256
360-379 W	\$262
380-399 W	\$269

Annual Rate (continued)

Plus, an additional annual charge, depending on type of installation, of:

	2/1/2019
Wood Pole – Overhead Service	\$79
Wood Pole – Underground Service	\$123
Concrete Pole – Overhead Service	\$195
Concrete Pole – Underground Service	\$195
Post Top – Concrete	\$123
Historic – Single Top	\$406
Large Historic – Dual Top	\$813
Small Historic – Dual Top	\$684
Wall/Tunnel – 8760 Hours	\$171
Wall/Tunnel – 4200 Hours	\$104
Bollard	\$345

Note: Luminaires installed on existing poles will be charged only the applicable rate for the luminaire. None of the additional charges above will be applied.

Customer Contribution - The Annual Rates are based on fixtures normally stocked by the BWL, and installed utilizing normal construction techniques. The BWL may, at its option, upon customer request install a street lighting system not covered by the rates above. Such requests shall be subject to the terms and conditions of Electric Rate 31a.

Unit Replacement - The BWL may, at its option, upon customer request replace existing street light units. After installation, the customer shall make a one-time contribution equal to the undepreciated value of the unit plus the cost of removal.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



**STREET LIGHTING SERVICE
BWL OWNED SYSTEMS
RATE NO. 31a**

Availability - Available to any political subdivision or agency of the State of Michigan for non-standard BWL street lighting service for any system consisting of one or more luminaires where the BWL has an existing distribution system with secondary voltage available.

Nature of Service - The BWL will furnish, install, own, operate, and maintain all equipment comprising the street lighting system, and supply the unmetered energy. The BWL reserves the right to furnish service from either a series or multiple system or both.

Annual Rate - The annual rate per luminaire with fixture and setting, payable in twelve monthly installments, shall consist of an annual energy charge and an annual facilities charge, as set forth below:

	<u>2/1/2019</u>
High Pressure Sodium Luminaire	\$0.66 per watt of rated energy usage
Metal Halide Luminaire	\$0.89 per watt of rated energy usage
LED Luminaire	\$0.47 per watt of rated energy usage

Annual Facilities Charge - The Annual Rate to recover the cost of luminaires, poles, attachments, and other equipment installed to provide service under this rate schedule, including the total facilities cost less any customer contributions, projected annual maintenance cost, and return on investment. The annual facilities charge for each luminaire and setting will be specified in the service contracts with each customer.

Unit Replacement - The BWL may, at its option, upon customer request replace existing street light units. After installation, the customer shall make a one-time contribution equal to the undepreciated value of the unit plus the cost of removal.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



**STREET LIGHTING SERVICE
CUSTOMER OWNED SYSTEMS
RATE NO. 32**

Availability - Available to any political subdivision or agency of the State of Michigan for street lighting service for any system consisting of one or more luminaires where the BWL has an existing distribution system available. Effective March 1, 2011, this rate is not open to new business.

Nature of Service - The BWL will connect the customer's equipment to BWL lines, furnish the control equipment, supply the unmetered energy, control the burning hours of the lamps, provide normal replacement of luminaire refractors, control devices and lamps. The customer will furnish, install and own all equipment comprising the street lighting system, including, but not limited to the overhead wires or underground cables between luminaires and the supply circuits extending to the point of attachment with the BWL. All maintenance and replacement of the customer's equipment except normal lamp and glass replacement shall be paid by the customer. The BWL reserves the right to furnish service from either a series or multiple system or both.

Annual Rate - Shall be computed in accordance with the following charges, payable in twelve (12) monthly installments:

	2/1/2019
High Pressure Sodium Luminaire¹	
70 W	\$54
100 W	\$65
150 W	\$84
250 W	\$110
400 W	\$158
1000 W	\$373
Mercury Vapor Luminaire¹	
175 W	\$75
250 W	\$100
400 W	\$145
1000 W	\$317
Incandescent Luminaire¹	
2500 L	\$104
4000 L	\$166
6000 L	\$202
LED Luminaire	
1-19 W	\$49
20-39 W	\$55
40-59 W	\$61
60-79 W	\$68
80-99 W	\$74
100-119 W	\$82
120-139 W	\$88
140-159 W	\$95
160-179 W	\$101

¹ Rates apply to existing luminaires only and are not open to new business.

180-199 W	\$108
200-219 W	\$114
220-239 W	\$121
240-259 W	\$127
260-279 W	\$133
280-299 W	\$141
300-319 W	\$147
320-339 W	\$154
340-359 W	\$160
360-379 W	\$167
380-399 W	\$173

Maintenance Charge - The actual labor, material, miscellaneous and indirect charges experienced maintaining street light units during the preceding month.

Combined Rates - The Annual Rate for units consisting of more than one luminaire shall be the appropriate combination of individual unit charges above.

Special Terms and Conditions - The BWL reserves the right to make special contractual arrangements as to termination charges, contributions in aid of construction, term or other special considerations when the customer requests service, equipment or facilities not normally provided under this rate.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



**POLE ATTACHMENT
RATE NO. 41**

Availability - This rate is available to any customer desiring to attach cable, wire, or equipment to BWL-owned distribution or transmission poles and for which the BWL does not attach distribution cables and wires to poles owned by the attaching customer.

Nature of Service - This rate is only available for installations of one year or more and requires the customer to enter into an attachment agreement with the BWL before any attachment is made. All attachments to BWL poles are subject to approval by BWL. Energy used by any attached equipment shall be billed under a separate rate.

Annual Rate - Shall be computed in accordance with the following charges:

2/1/2019

Basic Service Charge

Cable or Wire Attachments	\$7.52 Per attachment per year or part thereof, \$300.00 minimum
Equipment Attachments	\$18.47 Per attachment per year or part thereof, \$300.00 minimum

Unauthorized Attachment Charge	In addition to the Basic Service Charge, a penalty of five times the Annual Rate shall be charged for each unauthorized attachment each year or part thereof, with charges beginning on the date of attachment.
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Application Charge - A non-refundable application charge will apply in accordance with the BWL Rules and Regulations.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.

For existing pole attachment customers, this rate will become effective the later of July 1, 2018 or at the termination of their existing agreements with the BWL.



**PRIMARY HIGH LOAD FACTOR SERVICE
RATE NO. 85**

Availability - This rate is available to any customer desiring primary voltage service when the electrical requirements are supplied at one Service Location through one metering installation (except as provided below for Multiple Service Location Aggregation) and the On-Peak Billing Demand is 1,000 kW or more. To be eligible for this rate, each Service Location must sustain an annual load factor of 85% or greater. Service Locations that fall below an annual load factor of 85% are subject to removal from this rate class and will be placed in Rate 5, Primary Service. This rate is not available for emergency service, standby service, auxiliary service, or resale.

Nature of Service - The service is alternating current, 60 hertz, three phase. The primary voltage is determined by the Board of Water and Light (BWL).

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2019</u>	
Basic Service Charge	\$310.00	Per Service Location per month
Capacity Charge		
On-Peak Billing Demand	\$18.18	Per kW for all kW of On-Peak Billing Demand
Maximum Demand	\$6.33	Per kW for all kW of Maximum Demand
Commodity Charge		
Summer Months of June through October	\$0.0537	Per kWh for all kWh during the On-Peak period
	\$0.0491	Per kWh for all kWh during the Off-Peak period
Winter Months of November through May	\$0.0512	Per kWh for all kWh during the On-Peak period
	\$0.0491	Per kWh for all kWh during the Off-Peak period
Reactive Power Charge	\$0.0106	Per kvarh in excess of 50% of total kWh

The Reactive Power Charge shall be applicable to customers who have reactive kilovar hour (kvarh) metering installed in accordance with BWL Rules and Regulations regarding power factor.

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate plus the On-Peak Billing Demand charge and Maximum Demand charge as defined below.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

On-Peak Billing Demand: The On-Peak Billing Demand shall be the kW supplied during the 15-minute period of maximum use during the On-Peak Period during the month, but the On-Peak Billing Demand charge shall never be less than 1,000 kW.

The On-Peak Billing Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

Maximum Demand: The Maximum Demand shall be the kW supplied during the 15-minute period of maximum use during the month whether on-peak or off-peak, but the Maximum Demand charge shall never be less than 1,000 kW.

The Maximum Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

Schedule of on-peak and off-peak periods - The On-Peak Period shall be from 10:00 a.m. until 6:00 p.m., Monday through Friday. All other hours shall comprise the Off-Peak Period.

Multiple Service Location Aggregation - The 15-minute period demands of multiple Service Locations of a customer may be summed for determination of the total On-Peak Billing Demand under the following conditions: (a) the Maximum Demand at each Service Location must equal or exceed 1,000 kW; (b) the total On-Peak Billing Demand shall not be less than 4,000 kW; and (c) the customer shall agree to a service contract with the BWL for the customer's full electrical service requirements at the aggregated Service Locations for a period of not less than five (5) years. Aggregation shall be applicable for determination of the On-Peak Billing Demand only. All other charges, including the Basic Service Charge and Maximum Demand, shall apply to each Service Location independently.

Metering - Where the BWL elects to measure the service on the secondary side of the transformers, the metered kW and kWh thus measured will be increased by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, consumption as registered by the different meters will not be combined for billing purposes but will be billed and computed separately except as provided for in Multiple Service Location Aggregation.

Equipment Supplied by Customer - The customer shall be responsible for furnishing, installing and maintaining all necessary transforming, controlling and protective equipment required for service beyond the BWL primary-voltage Service Location. At the sole option of the BWL, a customer may lease such transformers or other equipment from the BWL under terms established by the BWL.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



RESIDENTIAL WATER SERVICE RATE NO. 1

Availability - This rate is available to any single-family dwelling or multifamily dwelling of 4 units or less served by one meter.

Service under this rate is not available when a portion of the dwelling is used for commercial, industrial, or resale purposes unless the plumbing is so arranged that service for residential and non-residential purposes are metered separately at separate Service Locations.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2019</u>	
Basic Service Charge		Per Service Location per month or part thereof
<u>Meter Size</u>		
5/8" or 3/4"*	\$14.75	
1"	\$36.02	
1 ¼" or 1 ½"	\$80.32	
2"	\$141.22	
Commodity Charge	\$3.16	Per ccf of water

* The BWL standard residential installation is a 1" service line with a ¾" meter. The BWL reserves the right, in its sole judgment, to install 5/8" meters on any new service installation when circumstances warrant.

Power and Chemical Cost Adjustment - The power and chemical cost adjustment shall consist of an increase or decrease of 0.1¢ per ccf billed for each 0.1¢ increase or decrease in the average cost of power and chemicals required to deliver treated water to the customer's meter above or below 44.7¢ per ccf. The cost per ccf for the billing period shall consist of the weighted average cost of chemicals, electricity, steam and oil used in pumping and treatment facilities during the one month period preceding the month billed by two months.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of water, will be in addition to the rates set forth herein.

Minimum Bill - The Minimum Bill shall be the above Basic Service Charge.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Water Service incorporated herein by this reference.



GENERAL WATER SERVICE RATE NO. 2

Availability - This rate is available to any customer desiring water for any purpose when supplied at one Service Location through one meter. Service under this rate is not available for resale.

Monthly Rate - Shall be computed in accordance with the following charges:

<u>2/1/2019</u>	
Basic Service Charge	Per Service Location per month or part thereof
<u>Meter Size</u>	
5/8" or 3/4"*	\$14.75
1"	\$36.02
1 ¼" or 1 ½"	\$80.32
2"	\$141.22
3"	\$318.45
4"	\$567.69
6"	\$1,276.49
8"	\$2,267.96
10"	\$3,544.57
Commodity Charge	\$3.16 Per ccf of water

* The BWL standard residential installation is a 1" service line with a 3/4" meter. The BWL reserves the right, in its sole judgment, to install 5/8" meters on any new service installation when circumstances warrant.

Power and Chemical Cost Adjustment - The power and chemical cost adjustment shall consist of an increase or decrease of 0.1¢ per ccf billed for each 0.1¢ increase or decrease in the average cost of power and chemicals required to deliver treated water to the customer's meter above or below 44.7¢ per ccf. The cost per ccf for the billing period shall consist of the weighted average cost of chemicals, electricity, steam and oil used in pumping and treatment facilities during the one month period preceding the month billed by two months.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of water, will be in addition to the rates set forth herein.

Minimum Bill - The Minimum Bill shall be the above Basic Service Charge.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Water Service incorporated herein by this reference.



WATER SYSTEM CONNECTION FEES RATE NO. 3

System Connection Fees - The following schedule of fees shall apply to all new water service connections made to the mains. Existing active services that are being upgraded and replaced with a larger service shall receive an offset to the new service connection fee in the amount of the connection fee of the replaced service.

Service Connection to Main	<u>2/1/2019</u>
1" or smaller	\$1,134
1 ½"	\$2,489
2"	\$4,424
3"	\$4,976
4"	\$8,846
6"	\$19,904
8" and over	\$35,385

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of water, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Water Service incorporated herein by this reference.



FIRE SERVICE RATE NO. 4

Fire Service - This rate is available to any Board of Water and Light customer desiring water service for fire protection purposes. A fire service line will be installed to a fire protection device or a customer's detector check valve in accordance with the schedule of charges for water system connection fees (Rate 3) and the current water service installation charges set forth in the Rules and Regulations for Water Service. The location of the detector check valve shall be determined by the Board of Water and Light.

Fire service lines shall be used for fire protection purposes only. No additional charges will be made for water used for routine testing and for fire response purposes. The customer shall maintain the detector check valve and fire protection system connected thereto in good condition in compliance with the BWL Cross Connection Control Program and local jurisdiction fire code.

Monthly Fire Service Charge - Water supply and maintenance of a fire service line to a fire protection device or a detector check valve shall be provided in accordance with the following schedule of charges:

Service Size	<u>2/1/2019</u>
4" or smaller	\$88
6"	\$201
8"	\$354
10" or larger	\$553

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of water, will be in addition to the rates set forth herein.

Minimum Bill - Billings subject to this rate are not subject to a Minimum Bill.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Water Service incorporated herein by this reference.



LAWN SPRINKLING WATER SERVICE RATE NO. 5

Availability - This rate is available to any customer served on the BWL's water system where the water service is installed and utilized solely for lawn and landscape sprinkling at the Service Location. Municipalities having jurisdiction over sewer system rates may designate other uses of water which are subject to this rate.

Monthly Rate - Shall be computed in accordance with the following charges:

Basic Service Charge

Billings subject to this rate are not subject to a Basic Service Charge.

Commodity Charge

2/1/2019

\$3.16 Per ccf of water

Power and Chemical Cost Adjustment - The power and chemical cost adjustment shall consist of an increase or decrease of 0.1¢ per ccf billed for each 0.1¢ increase or decrease in the average cost of power and chemicals required to deliver treated water to the customer's meter above or below 44.7¢ per ccf. The cost per ccf for the billing period shall consist of the weighted average cost of chemicals, electricity, steam and oil used in pumping and treatment facilities during the one month period preceding the month billed by two months.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of water, will be in addition to the rates set forth herein.

Minimum Bill - Billings subject to this rate are not subject to a Minimum Bill.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Water Service incorporated herein by this reference.



**FIRE HYDRANT CHARGES
RATE NO. 6**

Annual Fire Hydrant Charge - Water supply and maintenance of a fire service line to a public or private fire hydrant shall be provided in accordance with the following annual schedule of charges:

2/1/2019

Per Hydrant	\$586
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Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of water, will be in addition to the rates set forth herein.

Minimum Bill - Billings subject to this rate are not subject to a Minimum Bill.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Water Service incorporated herein by this reference.



GENERAL STEAM SERVICE RATE NO. 1

Availability - This rate is available to any customer receiving service from the Board of Water and Light (BWL) steam distribution system with a maximum gauge pressure of fifteen pounds per square inch (15 psi).

Nature of Service - Saturated steam up to a maximum gauge pressure of 15 psi. Upon request, steam services at gauge pressures above 15 psi but not exceeding 100 psi, when available, may be supplied at the option of the BWL.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2019</u>
Basic Service Charge	\$15.38 Per Service Location per month
Commodity Charge	
Months of June through November	\$17.54 Per 1,000 lbs. for the first 200,000 lbs. \$18.41 Per 1,000 lbs. for all 1,000 lbs. over 200,000 lbs.
Months of December through May	\$17.75 Per 1,000 lbs. for the first 200,000 lbs. \$18.64 Per 1,000 lbs. for all 1,000 lbs. over 200,000 lbs.

Surcharge - A surcharge of ten (10) percent shall be added to the above rates for steam service supplied upon customer's request for service at gauge pressure above 15 psi but not exceeding 100 psi.

Fuel Cost Adjustment - This rate is subject to a Fuel Cost Adjustment factor added to the above charges and calculated as defined on a separate rate schedule incorporated herein by this reference.

Amine Treatment Adjustment - The amine treatment adjustment allows for the monthly adjustment of rates to reflect the actual cost incurred due to amine feed. The factor shall be applied to each 1,000 pounds (lbs.) billed. The factor shall consist of 1.124 times the weighted average amine cost per 1,000 lbs. treated during the previous month.

Steam Environmental Charge - This rate is subject to a Steam Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of steam, will be in addition to the rates set forth herein.

Minimum Charge - The Basic Service Charge included in the rate except that Special Minimum Charges shall be billed when the revenue received does not adequately compensate the BWL for the cost of furnishing service.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Reconnect Charge - A reconnect charge shall be added to any Service Location which discontinues and reconnects service at the same Service Location within a twelve (12) month period. The reconnect charge is specified in the BWL Rules and Regulations for Steam Service.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Steam Service incorporated herein by this reference.



Monthly Rate - Shall be computed in accordance with the following charges:

Demand Charge

Excess Demand	\$1.53 Per pound per hour (lb/hr) for all lb/hrs exceeding contract demand
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Commodity Charge	\$10.79 Per 1,000 lbs. (Mlbs.)
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Steam Environmental Charge - This rate is subject to a Steam Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of steam, will be in addition to the rates set forth herein.

Minimum Charge - Monthly Contract Demand Charge above.

Billing Demand - The billing demand is the maximum demand (lb/hrs) supplied during the 15-minute period of maximum use during the month, but not less than the contract demand.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Steam Service incorporated herein by this reference.



**CONTRACT STEAM SERVICE
RATE NO. 3**

Availability - This rate is available to any customer receiving service from the Board of Water and Light (BWL) steam transmission or distribution system with a gauge pressure in excess of 100 psi. Service will be provided upon customer entering into a steam supply contract with the BWL. Terms and conditions of the contract may vary due to customer requirements and the impact on BWL facilities. This service may include both firm and curtailable service.

Monthly Rate - Per contract terms.

Fuel Cost Adjustment - This rate is subject to a Fuel Cost Adjustment factor added to the charges and calculated as defined on a separate rate schedule incorporated herein by this reference.

Steam Environmental Charge - Per contract terms.

Amine Treatment Adjustment - Per contract terms.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of steam, will be in addition to the rates set forth herein.

Minimum Charge - Per contract terms.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Steam Service incorporated herein by this reference.



RESIDENTIAL STEAM SERVICE RATE NO. 5

Availability - This rate is available to any single-family dwelling or multifamily dwelling of 4 units or less when the entire service requirements are supplied at one Service Location through one meter.

Service under this rate is not available when a portion of the dwelling unit is used for commercial, industrial, or resale purposes unless the service is so arranged that residential and non-residential purposes are metered separately at separate Service Locations.

Nature of Service - Saturated steam up to a maximum gauge pressure of 15 psi. Steam services at gauge pressures above 15 psi but not exceeding 100 psi, when available, may be supplied at the option of the BWL or upon request by the customer.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2019</u>
Basic Service Charge	\$11.40 Per Service Location per month
Commodity Charge	
Months of June through November	\$13.59 Per 1,000 lbs. for the first 200,000 lbs. \$14.22 Per 1,000 lbs. for all 1,000 lbs. over 200,000 lbs.
Months of December through May	\$13.75 Per 1,000 lbs. for the first 200,000 lbs. \$14.39 Per 1,000 lbs. for all 1,000 lbs. over 200,000 lbs.

Surcharge - A surcharge of ten (10) percent shall be added to the above rates for steam service supplied upon customer's request for service at gauge pressure above 15 psi but not exceeding 100 psi.

Fuel Cost Adjustment - This rate is subject to a Fuel Cost Adjustment factor added to the above charges and calculated as defined on a separate rate schedule incorporated herein by this reference.

Amine Treatment Adjustment - The amine treatment adjustment allows for the monthly adjustment of rates to reflect the actual cost incurred due to amine feed. The factor shall be applied to each 1,000 pounds (lbs.) billed. The factor shall consist of 1.124 times the weighted average amine cost per 1,000 lbs. treated during the previous month.

Steam Environmental Charge - This rate is subject to a Steam Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of steam, will be in addition to the rates set forth herein.

Minimum Charge - The Basic Service Charge included in the rate except that Special Minimum Charges shall be billed when the revenue received does not adequately compensate the BWL for the cost of furnishing service.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Reconnect Charge - A reconnect charge shall be added to any Service Location which discontinues and reconnects service at the same Service Location within a twelve (12) month period. The reconnect charge is specified in the BWL Rules and Regulations for Steam Service.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Steam Service incorporated herein by this reference.



GENERAL CHILLED WATER SERVICE RATE NO. 1

Availability - This rate is available to any customer desiring service from the Board of Water and Light (BWL) district cooling system. Service will be provided upon the customer entering into a contract with the BWL. The contract will govern the customer's contract demand and terms and conditions of service, which may vary due to customer requirements and the impact on BWL facilities. This rate is not available for standby or emergency service.

Monthly Rate - Shall be computed in accordance with the following charges:

2/1/2019

Capacity Charge

Contract Demand	\$45.05	Per ton for all tons of billing demand less than or equal to 105% of the contract demand
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Excess Demand	\$63.08	Per ton for all tons of billing demand exceeding 105% of the contract demand
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Commodity Charge	\$0.128	Per ton-hour
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Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of chilled water, will be in addition to the rates set forth herein.

Minimum Monthly Charge - The Capacity Charge included in the rate.

Billing Demand - The Billing Demand shall be the maximum demand (tons) supplied during the 15-minute period of maximum use, but not less than 85% of the Contract Demand. The General Manager is authorized to waive Billing Demand in excess of 105% of the Contract Demand where such Billing Demand is incurred is the result of emergency conditions at a Service Location and such emergency condition is caused by equipment or piping failure and the BWL concurs in the existence of an emergency condition.

Temperature Factor Adjustment - During the months of May through October; if the Service Location's return water temperature is below 52 degrees Fahrenheit (F), the Service Location's commodity charge will be increased by 2.0% for either; (1) each degree Fahrenheit the Service Location's supply and return water temperature differential is less than 10 degrees F or, (2) each degree Fahrenheit the Service Location's return water temperature is below 52 degrees F, whichever is less. The General Manager is authorized to waive the application of the Temperature Factor Adjustment where warranted.

Metering - All Service Locations using chilled water from the BWL chilled water system shall be metered. The BWL shall determine the form in which the commodity shall be metered.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Chilled Water Service incorporated herein by this reference.



RESIDENTIAL ELECTRIC SERVICE RATE NO. 1

Availability - This rate is available to any single-family dwelling or multifamily dwelling of 4 units or less when the entire electric requirements are supplied at one Service Location through one meter. Service to appurtenant buildings may be taken through the same meter.

Service under this rate is not available when a portion of the dwelling or an appurtenant building is used for commercial, industrial, or resale purposes unless the wiring is so arranged that service for residential and non-residential purposes are metered separately at separate Service Locations.

Nature of Service - The service is alternating current, 60 hertz, single phase, 120/240 nominal volts.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2020</u>	
Basic Service Charge	\$19.00	Per Service Location per month
Commodity Charge		
Summer Months of June through October	\$0.1242	Per kWh for the first 500 kWh
	\$0.1297	Per kWh for all kWh over 500 kWh
Winter Months of November through May	\$0.1242	Per kWh for the first 500 kWh
	\$0.1277	Per kWh for all kWh over 500 kWh

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



GENERAL ELECTRIC SERVICE RATE NO. 3

Availability - This rate is available to any customer desiring secondary voltage service for any purpose when supplied at one Service Location through one meter. The limitation to secondary-voltage service may be waived at the sole discretion of the BWL. This rate is not available for emergency service, standby service, auxiliary service, or resale.

Nature of Service - The service is alternating current, 60 hertz, single phase or three phase. The secondary voltage is determined by the Board of Water and Light (BWL).

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2020</u>	
Basic Service Charge	\$36.00	Per Service Location per month
Commodity Charge		
Summer Months of June through October	\$0.1478	Per kWh for all kWh
Winter Months of November through May	\$0.1439	Per kWh for all kWh

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Metering - Where the BWL elects to measure the service on the primary side of the transformers, the metered kWh thus measured will be reduced by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, the consumption as registered by the different meters will not be combined for billing purposes but will be computed and billed separately.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



LARGE GENERAL ELECTRIC SERVICE RATE NO. 4

Availability - This rate is available to any customer desiring secondary voltage for any purpose when the electrical requirements are supplied at one Service Location through one metering installation and the Maximum Demand is 15 kW or more. The limitation to secondary-voltage service may be waived at the sole discretion of the BWL. This rate is not available for emergency service, standby service, auxiliary service, or resale.

Nature of Service - The service is alternating current, 60 hertz, single phase or three phase. The secondary voltage is determined by the Board of Water and Light (BWL).

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2020</u>
Basic Service Charge	\$200.00 Per Service Location per month
Capacity Charge	\$20.50 Per kW for all kW of Maximum Demand
Commodity Charge	
Summer Months of June through October	\$0.0717 Per kWh for all kWh
Winter Months of November through May	\$0.0672 Per kWh for all kWh
Reactive Power Charge	\$0.0106 Per kvarh in excess of 50% of total kWh

The Reactive Power Charge shall be applicable to customers who have reactive kilovar hour (kvarh) metering installed in accordance with BWL Rules and Regulations regarding power factor.

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate plus the Maximum Demand charge as defined below.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Maximum Demand - The Maximum Demand shall be the kW supplied during the 15-minute period of maximum use during the billing month, but the Capacity Charge shall never be less than 50% of the highest Maximum Demand of the preceding 11 billing months.

The Maximum Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

Metering - Where the BWL elects to measure the service on the primary side of the transformer, the metered kW and kWh thus measured will be reduced by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, the consumption as registered by the different meters will not be combined for billing purposes but will be computed and billed separately.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



PRIMARY ELECTRIC SERVICE RATE NO. 5

Availability - This rate is available to any customer desiring primary voltage service when the electrical requirements are supplied at one Service Location through one metering installation (except as provided below for Multiple Service Location Aggregation) and the On-Peak Billing Demand is 100 kW or more. This rate is not available for emergency service, standby service, auxiliary service, or resale.

Nature of Service - The service is alternating current, 60 hertz, three phase. The primary voltage is determined by the Board of Water and Light (BWL).

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2020</u>	
Basic Service Charge	\$320.00	Per Service Location per month
Capacity Charge		
On-Peak Billing Demand	\$16.25	Per kW for all kW of On-Peak Billing Demand
Maximum Demand	\$6.20	Per kW for all kW of Maximum Demand
Commodity Charge		
Summer Months of June through October	\$0.0678	Per kWh for all kWh during the On-Peak Period
	\$0.0634	Per kWh for all kWh during the Off-Peak Period
Winter Months of November through May	\$0.0654	Per kWh for all kWh during the On-Peak Period
	\$0.0634	Per kWh for all kWh during the Off-Peak Period
Reactive Power Charge	\$0.0106	Per kvarh in excess of 50% of total kWh

The Reactive Power Charge shall be applicable to customers who have reactive kilovar hour (kvarh) metering installed in accordance with BWL Rules and Regulations regarding power factor.

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate plus the On-Peak Billing Demand charge and Maximum Demand charge as defined below.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

On-Peak Billing Demand - The On-Peak Billing Demand shall be the kW supplied during the 15-minute period of maximum use during the On-Peak Period during the billing month, but the On-Peak Billing Demand charge shall never be less than 50% of the highest On-Peak Billing Demand of the preceding 11 billing months.

The On-Peak Billing Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

Maximum Demand - The Maximum Demand shall be the kW supplied during the 15-minute period of maximum use during the billing month, whether on-peak or off-peak, but the Maximum Demand charge shall never be less than 50% of the highest Maximum Demand of the preceding 11 billing months.

The Maximum Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

Schedule of on-peak and off-peak periods - The On-Peak Period shall be from 10:00 a.m. until 6:00 p.m., Monday through Friday. All other hours shall comprise the Off-Peak Period.

Multiple Service Location Aggregation - The 15-minute period demands of multiple Service Locations of a customer may be summed for determination of the total On-Peak Billing Demand under the following conditions: (a) the Maximum Demand at each Service Location must equal or exceed 100 kW; (b) the total On-Peak Billing Demand shall not be less than 4,000 kW; and (c) the customer shall agree to a service contract with the BWL for the customer's full electrical service requirements at the aggregated Service Locations for a period of not less than five (5) years. Aggregation shall be applicable for determination of the On-Peak Billing Demand only. All other charges, including the Basic Service Charge and Maximum Demand, shall apply to each Service Location independently.

Metering - Where the BWL elects to measure the service on the secondary side of the transformers, the metered kW and kWh thus measured will be increased by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, consumption as registered by the different meters will not be combined for billing purposes but will be billed and computed separately except as provided for in Multiple Service Location Aggregation.

Equipment Supplied by Customer - The customer shall be responsible for furnishing, installing and maintaining all necessary transforming, controlling and protective equipment required for service beyond the BWL primary-voltage Service Location. At the sole option of the BWL, a customer may lease such transformers or other equipment from the BWL under terms established by the BWL.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



MUNICIPAL WATER PUMPING ELECTRIC SERVICE RATE NO. 7

Availability - This rate is available to any political subdivision or agency of the State of Michigan desiring service for potable water pumping and associated potable water production equipment when the entire electrical requirements are supplied at one Service Location through one meter. This rate is not available for emergency service, standby service, auxiliary service, or resale.

Nature of Service - The service is alternating current, 60 hertz, three phase. The secondary or primary voltage is determined by the BWL.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2020</u>	
Basic Service Charge	\$28.00	Per Service Location per month
Commodity Charge	\$0.1285	Per kWh for all kWh

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Metering - For customers taking secondary voltage from the BWL and where the BWL elects to measure the service on the primary side of the transformers, the metered kWh thus measured will be reduced by 3% for billing purposes to adjust for transformer losses. For customers taking primary voltage from the BWL and where the BWL elects to measure the service on the secondary side of the transformers, the metered kWh thus measured will be increased by 3% for billing purposes to adjust for transformer losses.

Where the customer receives service through more than one meter, the consumption as registered by the different meters will not be combined for billing purposes but will be computed and billed separately.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



LARGE CAPACITY ELECTRIC SERVICE RATE NO. 8

Availability - This rate is available to any customer desiring primary voltage service when: (a) the electrical requirements are supplied at one or more Service Locations as provided below for Multiple Service Location Aggregation; (b) where the total On-Peak Billing Demand is 25,000 kW or more; and (c) the customer agrees to a service contract with the BWL for the customer's full electrical service requirements at the applicable Service Locations for a period of not less than ten (10) years. This rate is not available for emergency service, standby service, auxiliary service, or resale.

Nature of Service - The service is alternating current, 60 hertz, three phase. The primary voltage is determined by the Board of Water and Light (BWL).

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2020</u>	
Basic Service Charge	\$490.00	Per Service Location per month
Capacity Charge		
On-Peak Billing Demand	\$17.00	Per kW for all kW of On-Peak Billing Demand
Maximum Demand	\$2.75	Per kW for all kW of Maximum Demand
Commodity Charge		
Summer Months of June through October	\$0.0745	Per kWh for all kWh during the On-Peak Period
	\$0.0689	Per kWh for all kWh during the Off-Peak Period
Winter Months of November through May	\$0.0729	Per kWh for all kWh during the On-Peak Period
	\$0.0689	Per kWh for all kWh during the Off-Peak Period
Reactive Power Charge	\$0.0106	Per kvarh in excess of 50% of total kWh

The Reactive Power Charge shall be applicable to customers who have reactive kilovar hour (kvarh) metering installed in accordance with BWL Rules and Regulations regarding power factor.

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate plus the On-Peak Billing Demand charge and Maximum Demand charge as defined below.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

On-Peak Billing Demand: The On-Peak Billing Demand shall be the total kW supplied to all applicable Service Locations during the 15-minute period of maximum use during the On-Peak Period during the month (See Multiple Service Location Aggregation).

The On-Peak Billing Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

Maximum Demand: The Maximum Demand for each Service Location shall be the kW supplied during the 15-minute period of maximum use during the month whether on-peak or off-peak, but the Maximum Demand charge shall never be less than 1,000 kW.

The Maximum Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

Schedule of on-peak and off-peak periods - The On-Peak Period shall be from 10:00 a.m. until 6:00 p.m., Monday through Friday. All other hours shall comprise the Off-Peak Period.

Multiple Service Location Aggregation - The 15-minute period demands of multiple Service Locations of a customer shall be summed for determination of the total On-Peak Billing Demand if the Maximum Demand determined at each Service Location equals or exceeds 1,000 kW. Aggregation shall be applicable for determination of the On-Peak Billing Demand only. All other charges, including the Basic Service Charge and Maximum Demand, shall apply to each Service Location independently.

Metering - Where the BWL elects to measure the service on the secondary side of the transformers, the metered kW and kWh thus measured will be increased by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, consumption as registered by the different meters will not be combined for billing purposes but will be billed and computed separately except as provided for in Multiple Service Location Aggregation.

Equipment Supplied by Customer - The customer shall be responsible for furnishing, installing and maintaining all necessary transforming, controlling and protective equipment required for service beyond the BWL primary-voltage Service Location. At the sole option of the BWL, a customer may lease such transformers or other equipment from the BWL under terms established by the BWL.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



OUTDOOR LIGHTING SERVICE RATE NO. 9

Availability - This rate is available to any customer located within the Board of Water and Light (BWL) service area for dusk to dawn lighting of a Service Location's premises. The BWL furnishes and maintains all lights. The installation will overhang private property from existing or new poles set at points accessible to BWL construction and maintenance equipment. This rate is not available for purposes of street, highway, or public thoroughfare lighting.

Monthly Rate - Shall be computed in accordance with the following charges:

<i>Luminaires on Overhead Mast Arm on existing BWL poles</i>	<i>2/1/2020</i>
High Pressure Sodium¹	
100 W	\$13.45
250 W	\$21.36
400 W	\$24.28
Mercury Vapor²	
175 W	\$14.13
400 W	\$24.28
LED End Mount	
1-19 W	\$9.89
20-39 W	\$10.44
40-59 W	\$11.00
60-79 W	\$11.56
80-99 W	\$12.12
100-119 W	\$12.67
120-139 W	\$13.23
140-159 W	\$13.79
160-179 W	\$14.34
180-199 W	\$14.90
200-219 W	\$15.46
220-239 W	\$16.02
240-259 W	\$16.57
260-279 W	\$17.13
280-299 W	\$17.69
300-319 W	\$18.25
320-339 W	\$18.80
340-359 W	\$19.37
360-379 W	\$19.93
380-399 W	\$20.48

¹ Rates apply to existing luminaires and are subject to cost and availability for new business.

² Rates apply to existing luminaires only and are not open to new business.

Floodlighting Luminaires on Bracket Arm on existing BWL poles	2/1/2020
High Pressure Sodium³	
100 W	\$17.89
250 W	\$24.07
400 W	\$28.23
Metal Halide³	
400 W	\$35.08
1000 W	\$60.68
1500 W	\$84.20
LED Flood	
1-19 W	\$11.55
20-39 W	\$12.10
40-59 W	\$12.66
60-79 W	\$13.22
80-99 W	\$13.77
100-119 W	\$14.33
120-139 W	\$14.89
140-159 W	\$15.45
160-179 W	\$16.00
180-199 W	\$16.56
200-219 W	\$17.12
220-239 W	\$17.68
240-259 W	\$18.23
260-279 W	\$18.79
280-299 W	\$19.36
300-319 W	\$19.91
320-339 W	\$20.47
340-359 W	\$21.03
360-379 W	\$21.59
380-399 W	\$22.14

In the event additional facilities or rearrangement of existing facilities is required, the BWL shall install, operate and maintain such facilities for the following monthly charges.

Type of Facilities	2/1/2020
35-foot wood poles including span of overhead secondary extension	\$15.28 Per pole
37-foot concrete pole including span of overhead secondary extension	\$25.33 Per pole
Other facilities, hand set poles, or rearrangement of existing facilities	1.67% Of estimated cost

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.

³ Rates apply to existing luminaires and are subject to cost and availability for new business.

Service Contract - A written service agreement shall be entered into to take BWL service for a term of years determined as follows:

- a) One year, if additional facilities are not required, or
- b) Three years, if additional facilities are required
- c) Five years, for metal halide lamps or if monthly facilities charges are calculated at 1.67% of estimated cost,
- d) Ten years, if special contractual arrangements are made.

In the event the customer discontinues service before the end of the agreement term, the established rate for the remaining portion of the agreement shall immediately become due and payable. The BWL will replace lamps or make repairs when practicable after the customer has reported that the installation requires servicing. Such replacements and repairs will be made during regular working hours. The BWL may refuse or restrict the service provided in this rate to seasonal type customers and/or may require such customers to pay for the service annually in advance where the permanency of the customer is doubtful or has not been demonstrated by the customer. If relocation, including adjustment, of the outdoor protective light or relocation of other facilities used in connection with the light is desired by the customer during the term of the contract, the BWL will provide this service, if feasible, at the customer's expense.



UNMETERED DEVICE SERVICE RATE NO. 11

Availability - This rate is available to the US Government, any political subdivision or agency of the State of Michigan, and any public or private school district for lamp installations maintained for traffic regulation or guidance, as distinguished from street illumination and police signal systems. This rate is also available to other Unmetered Devices, such as Community Antenna Television Service Companies (CATV), wireless access companies, or security camera companies for unmetered Power Supply Units. Where the BWL's total investment to serve an individual Service Location exceeds three times the annual revenue to be derived from such Service Location, a contribution to BWL shall be required for the excess.

Nature of Service - The service is alternating current, 60 hertz, single phase, 120/240 nominal volts.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2020</u>
Basic Service Charge	\$4.50 Per Service Location per month
Commodity Charge	\$0.0873 Per kWh for all kWh

The actual labor, material, miscellaneous and indirect charges experienced maintaining and relamping traffic signals during the preceding month.

Determination of kWh - Monthly kWh shall be determined by multiplying the total connected load in kW (including the lamps, ballasts, transformers, amplifiers, and control devices) times 730 hours.

The kWh for cyclical devices shall be 50% of the total kWh so calculated.

The kWh of continuous, non-intermittent devices shall be 100% of the total kWh so calculated.

The kWh of devices used for the control of school traffic, and operated not more than six hours per day during the school year only, shall be 10% of the continuous or cyclical kWh so calculated.

The kWh for CATV Power Supply Units shall be 50% of the total kWh as determined from the manufacturer's rated input capacity of the Power Supply Units or the actual test load, whichever is greater.

The kWh for Wireless Access and Security Camera Power Supply Units shall be 100% of the total kWh as determined from the manufacturer's rated input capacity of the Power Supply Units or the actual test load, whichever is greater.

The BWL may, at its option, install test meters for the purpose of determining the monthly kWh usage to be used for billing purposes.

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



SPACE CONDITIONING AND ELECTRIC WATER HEATING SERVICE RATE NO. 12

Availability - This rate is available to any customer desiring service for commercial/industrial space conditioning and/or electric water heating furnished through a separate meter to which no other electrical device except electric space heating, electric air conditioning, humidity control equipment or electric water heating equipment may be connected. Electric space heating will be considered to include heating by light system provided the primary means of space heating at the time of maximum heating requirements will be furnished by the lighting system with the balance of the heating requirements furnished by supplementary electric heating equipment. This rate is not available to new applications for heat for light systems received after March 1, 1979. This rate is not applicable to the use of electricity for electric air conditioning unless the customer has permanently installed electric space heating equipment and uses it as the principal source of space heating, or to the use of electricity for occasional or seasonal substitute for another method of water heating. This rate is not available for emergency service, standby service, auxiliary service, or resale.

Nature of Service - The service is alternating current, 60 hertz, single phase at Board of Water and Light (BWL) available secondary voltage. Three phase service will be furnished at BWL option. The secondary voltage is determined by the BWL.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2020</u>	
Basic Service Charge	\$45.00	Per Service Location per month
Commodity Charge		
Summer Months of June through October	\$0.1582	Per kWh for all kWh
Winter Months of November through May	\$0.1151	Per kWh for all kWh

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Metering - Where the BWL elects to measure the service on the primary side of the transformers, the metered kWh thus measured will be reduced by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, the consumption as registered by the different meters will not be combined for billing purposes but will be computed and billed separately.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



RESIDENTIAL ELECTRIC SERVICE, SENIOR CITIZEN RATE NO. 21

Availability - This rate is available to any Service Location that qualifies for Electric Rate No. 1 where the customer is 65 years of age or older and head of the household being served.

Nature of Service - The service is alternating current, 60 hertz, single phase, 120/240 nominal volts.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2020</u>	
Basic Service Charge	\$14.25	Per Service Location per month
Commodity Charge		
Block 1	\$0.0786	Per kWh for the first 300 kWh
Block 2	\$0.1592	Per kWh for the next 200 kWh
Block 3	\$0.1943	Per kWh for all kWh over 500 kWh

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



RESIDENTIAL PLUG-IN ELECTRIC VEHICLE CHARGING SERVICE RATE NO. 22

Availability - The Residential Plug-in Electric Vehicle Charging Rate is a voluntary rate available to any Service Location that qualifies for Electric Rate No. 1 where separately metered Electric Vehicle Supply Equipment (EVSE) capable of providing Level 2 charging for plug-in electric motor vehicles is installed.

“EVSE” means a device or apparatus, including vehicle supply cable, connector, internal relays and controls designed specifically for the purpose of delivering energy from the premises wiring to a plug-in-electric motor vehicle. This equipment must meet or exceed all applicable codes, standards, and required practices.

“Level 2 Charging” means providing 208 – 240 volt single phase alternating current energy to an onboard charger of an electric motor vehicle with a maximum current specified by the vehicle manufacturer.

Nature of Service - The service is alternating current, 60 hertz, single phase, 208 to 240 nominal volts, Level 2 Charging as defined. However, the new circuit protective device rating shall not to exceed 100 amperes.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2020</u>
Basic Service Charge	\$1.95 Per Service Location per month
Commodity Charge	
Off-Peak Energy	\$0.0821 Per kWh for all Off-Peak kWh
On-Peak Energy	\$0.1715 Per kWh for all On-Peak kWh

Schedule of On-Peak and Off-Peak Periods - The On-Peak Period shall be from 7:00 a.m. until 11:00 p.m., Monday through Friday. All other hours shall comprise the Off-Peak Period.

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



**STREET LIGHTING SERVICE
BWL OWNED SYSTEMS
RATE NO. 31**

Availability - Available to any political subdivision or agency of the State of Michigan for street lighting service for any system consisting of one or more luminaires where the BWL has an existing distribution system with secondary voltage available. Luminaires may be installed with no limitations as to spacing between luminaires. Where an overhead line extension is required to serve one or more luminaires, the BWL will furnish 350 linear feet of line extension per luminaire served from such extension.

Nature of Service - The BWL will furnish, install, own, operate, and maintain all equipment comprising the street lighting system, and supply the unmetered energy. The BWL reserves the right to furnish service from either a series or multiple system or both.

Annual Rate - Shall be computed in accordance with the following charges, payable in twelve (12) monthly installments:

	2/1/2020
High Pressure Sodium Luminaire¹	
70 W	\$112
100 W	\$127
150 W	\$148
250 W	\$180
400 W	\$229
1000 W	\$470
Mercury Vapor Luminaire²	
100 W	\$118
175 W	\$144
250 W	\$170
400 W	\$218
1000 W	\$413
Metal Halide Luminaire¹	
175 W ²	\$252
250 W ²	\$288
400 W	\$290
1000 W	\$563
1500 W	\$864
Induction Luminaire¹	
85 W	\$118
165 W	\$145
LED Decorative Luminaire	
1-19 W	\$149
20-39 W	\$156
40-59 W	\$163
60-79 W	\$170

¹ Rates apply to existing luminaires and are subject to cost and availability for new business.

² Rates apply to existing luminaires only and are not open to new business.

80-99 W	\$177
100-119 W	\$185
120-139 W	\$191
140-159 W	\$199
160-179 W	\$206
180-199 W	\$214
200-219 W	\$220
220-239 W	\$227
240-259 W	\$235
260-279 W	\$241
280-299 W	\$249
300-319 W	\$256
320-339 W	\$263
340-359 W	\$270
360-379 W	\$278
380-399 W	\$284
LED End Mount Luminaire	
1-19 W	\$126
20-39 W	\$134
40-59 W	\$141
60-79 W	\$148
80-99 W	\$155
100-119 W	\$162
120-139 W	\$169
140-159 W	\$176
160-179 W	\$184
180-199 W	\$190
200-219 W	\$198
220-239 W	\$205
240-259 W	\$212
260-279 W	\$219
280-299 W	\$226
300-319 W	\$234
320-339 W	\$240
340-359 W	\$248
360-379 W	\$255
380-399 W	\$262
LED Flood Luminaire	
1-19 W	\$147
20-39 W	\$155
40-59 W	\$162
60-79 W	\$169
80-99 W	\$176
100-119 W	\$184
120-139 W	\$190
140-159 W	\$198
160-179 W	\$205
180-199 W	\$211
200-219 W	\$219
220-239 W	\$226
240-259 W	\$234
260-279 W	\$240
280-299 W	\$248
300-319 W	\$255

320-339 W	\$262
340-359 W	\$269
360-379 W	\$276
380-399 W	\$283

Annual Rate (continued)

Plus, an additional annual charge, depending on type of installation, of:

	2/1/2020
Wood Pole – Overhead Service	\$83
Wood Pole – Underground Service	\$129
Concrete Pole – Overhead Service	\$205
Concrete Pole – Underground Service	\$205
Post Top – Concrete	\$129
Historic – Single Top	\$427
Large Historic – Dual Top	\$855
Small Historic – Dual Top	\$719
Wall/Tunnel – 8760 Hours	\$180
Wall/Tunnel – 4200 Hours	\$110
Bollard	\$363

Note: Luminaires installed on existing poles will be charged only the applicable rate for the luminaire. None of the additional charges above will be applied.

Customer Contribution - The Annual Rates are based on fixtures normally stocked by the BWL, and installed utilizing normal construction techniques. The BWL may, at its option, upon customer request install a street lighting system not covered by the rates above. Such requests shall be subject to the terms and conditions of Electric Rate 31a.

Unit Replacement - The BWL may, at its option, upon customer request replace existing street light units. After installation, the customer shall make a one-time contribution equal to the undepreciated value of the unit plus the cost of removal.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



**STREET LIGHTING SERVICE
BWL OWNED SYSTEMS
RATE NO. 31a**

Availability - Available to any political subdivision or agency of the State of Michigan for non-standard BWL street lighting service for any system consisting of one or more luminaires where the BWL has an existing distribution system with secondary voltage available.

Nature of Service - The BWL will furnish, install, own, operate, and maintain all equipment comprising the street lighting system, and supply the unmetered energy. The BWL reserves the right to furnish service from either a series or multiple system or both.

Annual Rate - The annual rate per luminaire with fixture and setting, payable in twelve monthly installments, shall consist of an annual energy charge and an annual facilities charge, as set forth below:

	<u>2/1/2020</u>
High Pressure Sodium Luminaire	\$0.69 per watt of rated energy usage
Metal Halide Luminaire	\$0.92 per watt of rated energy usage
LED Luminaire	\$0.50 per watt of rated energy usage

Annual Facilities Charge - The Annual Rate to recover the cost of luminaires, poles, attachments, and other equipment installed to provide service under this rate schedule, including the total facilities cost less any customer contributions, projected annual maintenance cost, and return on investment. The annual facilities charge for each luminaire and setting will be specified in the service contracts with each customer.

Unit Replacement - The BWL may, at its option, upon customer request replace existing street light units. After installation, the customer shall make a one-time contribution equal to the undepreciated value of the unit plus the cost of removal.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



**STREET LIGHTING SERVICE
CUSTOMER OWNED SYSTEMS
RATE NO. 32**

Availability - Available to any political subdivision or agency of the State of Michigan for street lighting service for any system consisting of one or more luminaires where the BWL has an existing distribution system available. Effective March 1, 2011, this rate is not open to new business.

Nature of Service - The BWL will connect the customer's equipment to BWL lines, furnish the control equipment, supply the unmetered energy, control the burning hours of the lamps, provide normal replacement of luminaire refractors, control devices and lamps. The customer will furnish, install and own all equipment comprising the street lighting system, including, but not limited to the overhead wires or underground cables between luminaires and the supply circuits extending to the point of attachment with the BWL. All maintenance and replacement of the customer's equipment except normal lamp and glass replacement shall be paid by the customer. The BWL reserves the right to furnish service from either a series or multiple system or both.

Annual Rate - Shall be computed in accordance with the following charges, payable in twelve (12) monthly installments:

	2/1/2020
High Pressure Sodium Luminaire¹	
70 W	\$55
100 W	\$66
150 W	\$85
250 W	\$112
400 W	\$161
1000 W	\$380
Mercury Vapor Luminaire¹	
175 W	\$77
250 W	\$102
400 W	\$147
1000 W	\$323
Incandescent Luminaire¹	
2500 L	\$106
4000 L	\$169
6000 L	\$206
LED Luminaire	
1-19 W	\$50
20-39 W	\$56
40-59 W	\$62
60-79 W	\$70
80-99 W	\$76
100-119 W	\$83
120-139 W	\$89
140-159 W	\$97
160-179 W	\$103

¹ Rates apply to existing luminaires only and are not open to new business.

180-199 W	\$110
200-219 W	\$116
220-239 W	\$124
240-259 W	\$130
260-279 W	\$136
280-299 W	\$143
300-319 W	\$150
320-339 W	\$157
340-359 W	\$163
360-379 W	\$170
380-399 W	\$177

Maintenance Charge - The actual labor, material, miscellaneous and indirect charges experienced maintaining street light units during the preceding month.

Combined Rates - The Annual Rate for units consisting of more than one luminaire shall be the appropriate combination of individual unit charges above.

Special Terms and Conditions - The BWL reserves the right to make special contractual arrangements as to termination charges, contributions in aid of construction, term or other special considerations when the customer requests service, equipment or facilities not normally provided under this rate.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



**POLE ATTACHMENT
RATE NO. 41**

Availability - This rate is available to any customer desiring to attach cable, wire, or equipment to BWL-owned distribution or transmission poles and for which the BWL does not attach distribution cables and wires to poles owned by the attaching customer.

Nature of Service - This rate is only available for installations of one year or more and requires the customer to enter into an attachment agreement with the BWL before any attachment is made. All attachments to BWL poles are subject to approval by BWL. Energy used by any attached equipment shall be billed under a separate rate.

Annual Rate - Shall be computed in accordance with the following charges:

2/1/2020

Basic Service Charge

Cable or Wire Attachments	\$7.74 Per attachment per year or part thereof, \$300.00 minimum
Equipment Attachments	\$19.02 Per attachment per year or part thereof, \$300.00 minimum

Unauthorized Attachment Charge	In addition to the Basic Service Charge, a penalty of five times the Annual Rate shall be charged for each unauthorized attachment each year or part thereof, with charges beginning on the date of attachment.
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Application Charge - A non-refundable application charge will apply in accordance with the BWL Rules and Regulations.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.

For existing pole attachment customers, this rate will become effective the later of July 1, 2018 or at the termination of their existing agreements with the BWL.



**PRIMARY HIGH LOAD FACTOR SERVICE
RATE NO. 85**

Availability - This rate is available to any customer desiring primary voltage service when the electrical requirements are supplied at one Service Location through one metering installation (except as provided below for Multiple Service Location Aggregation) and the On-Peak Billing Demand is 1,000 kW or more. To be eligible for this rate, each Service Location must sustain an annual load factor of 85% or greater. Service Locations that fall below an annual load factor of 85% are subject to removal from this rate class and will be placed in Rate 5, Primary Service. This rate is not available for emergency service, standby service, auxiliary service, or resale.

Nature of Service - The service is alternating current, 60 hertz, three phase. The primary voltage is determined by the Board of Water and Light (BWL).

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2020</u>	
Basic Service Charge	\$310.00	Per Service Location per month
Capacity Charge		
On-Peak Billing Demand	\$18.73	Per kW for all kW of On-Peak Billing Demand
Maximum Demand	\$6.52	Per kW for all kW of Maximum Demand
Commodity Charge		
Summer Months of June through October	\$0.0553	Per kWh for all kWh during the On-Peak period
	\$0.0506	Per kWh for all kWh during the Off-Peak period
Winter Months of November through May	\$0.0527	Per kWh for all kWh during the On-Peak period
	\$0.0506	Per kWh for all kWh during the Off-Peak period
Reactive Power Charge	\$0.0106	Per kvarh in excess of 50% of total kWh

The Reactive Power Charge shall be applicable to customers who have reactive kilovar hour (kvarh) metering installed in accordance with BWL Rules and Regulations regarding power factor.

Minimum Bill - The Minimum Bill is the Basic Service Charge included in the Monthly Rate plus the On-Peak Billing Demand charge and Maximum Demand charge as defined below.

Power Supply Cost Recovery Adjustment - This rate is subject to a Power Supply Cost Recovery Adjustment factor as defined on a separate rate schedule incorporated herein by this reference.

Electric Environmental Charge - This rate is subject to an Electric Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Renewable Energy Plan Surcharge - This rate is subject to the Renewable Energy Plan Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Energy Waste Reduction Surcharge - This rate is subject to the Energy Waste Reduction Surcharge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of electric energy, will be in addition to the rates set forth herein.

On-Peak Billing Demand: The On-Peak Billing Demand shall be the kW supplied during the 15-minute period of maximum use during the On-Peak Period during the month, but the On-Peak Billing Demand charge shall never be less than 1,000 kW.

The On-Peak Billing Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

Maximum Demand: The Maximum Demand shall be the kW supplied during the 15-minute period of maximum use during the month whether on-peak or off-peak, but the Maximum Demand charge shall never be less than 1,000 kW.

The Maximum Demand is subject to adjustment on a case by case basis should the Service Location include equipment that creates fluctuating high demands.

Schedule of on-peak and off-peak periods - The On-Peak Period shall be from 10:00 a.m. until 6:00 p.m., Monday through Friday. All other hours shall comprise the Off-Peak Period.

Multiple Service Location Aggregation - The 15-minute period demands of multiple Service Locations of a customer may be summed for determination of the total On-Peak Billing Demand under the following conditions: (a) the Maximum Demand at each Service Location must equal or exceed 1,000 kW; (b) the total On-Peak Billing Demand shall not be less than 4,000 kW; and (c) the customer shall agree to a service contract with the BWL for the customer's full electrical service requirements at the aggregated Service Locations for a period of not less than five (5) years. Aggregation shall be applicable for determination of the On-Peak Billing Demand only. All other charges, including the Basic Service Charge and Maximum Demand, shall apply to each Service Location independently.

Metering - Where the BWL elects to measure the service on the secondary side of the transformers, the metered kW and kWh thus measured will be increased by 3% for billing purposes to adjust for transformer losses. Where the customer receives service through more than one meter, consumption as registered by the different meters will not be combined for billing purposes but will be billed and computed separately except as provided for in Multiple Service Location Aggregation.

Equipment Supplied by Customer - The customer shall be responsible for furnishing, installing and maintaining all necessary transforming, controlling and protective equipment required for service beyond the BWL primary-voltage Service Location. At the sole option of the BWL, a customer may lease such transformers or other equipment from the BWL under terms established by the BWL.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Electric Service incorporated herein by this reference.



RESIDENTIAL WATER SERVICE RATE NO. 1

Availability - This rate is available to any single-family dwelling or multifamily dwelling of 4 units or less served by one meter.

Service under this rate is not available when a portion of the dwelling is used for commercial, industrial, or resale purposes unless the plumbing is so arranged that service for residential and non-residential purposes are metered separately at separate Service Locations.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2020</u>	
Basic Service Charge		Per Service Location per month or part thereof
<u>Meter Size</u>		
5/8" or 3/4"*	\$15.86	
1"	\$38.72	
1 ¼" or 1 ½"	\$86.35	
2"	\$151.81	
Commodity Charge	\$3.40	Per ccf of water

* The BWL standard residential installation is a 1" service line with a ¾" meter. The BWL reserves the right, in its sole judgment, to install 5/8" meters on any new service installation when circumstances warrant.

Power and Chemical Cost Adjustment - The power and chemical cost adjustment shall consist of an increase or decrease of 0.1¢ per ccf billed for each 0.1¢ increase or decrease in the average cost of power and chemicals required to deliver treated water to the customer's meter above or below 44.7¢ per ccf. The cost per ccf for the billing period shall consist of the weighted average cost of chemicals, electricity, steam and oil used in pumping and treatment facilities during the one month period preceding the month billed by two months.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of water, will be in addition to the rates set forth herein.

Minimum Bill - The Minimum Bill shall be the above Basic Service Charge.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Water Service incorporated herein by this reference.



GENERAL WATER SERVICE RATE NO. 2

Availability - This rate is available to any customer desiring water for any purpose when supplied at one Service Location through one meter. Service under this rate is not available for resale.

Monthly Rate - Shall be computed in accordance with the following charges:

Basic Service Charge		<u>2/1/2020</u>	Per Service Location per month or part thereof
<u>Meter Size</u>			
5/8" or 3/4"*		\$15.86	
1"		\$38.72	
1 1/4" or 1 1/2"		\$86.35	
2"		\$151.81	
3"		\$342.33	
4"		\$610.26	
6"		\$1,372.22	
8"		\$2,438.06	
10"		\$3,810.41	
Commodity Charge		\$3.40	Per ccf of water

* The BWL standard residential installation is a 1" service line with a 3/4" meter. The BWL reserves the right, in its sole judgment, to install 5/8" meters on any new service installation when circumstances warrant.

Power and Chemical Cost Adjustment - The power and chemical cost adjustment shall consist of an increase or decrease of 0.1¢ per ccf billed for each 0.1¢ increase or decrease in the average cost of power and chemicals required to deliver treated water to the customer's meter above or below 44.7¢ per ccf. The cost per ccf for the billing period shall consist of the weighted average cost of chemicals, electricity, steam and oil used in pumping and treatment facilities during the one month period preceding the month billed by two months.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of water, will be in addition to the rates set forth herein.

Minimum Bill - The Minimum Bill shall be the above Basic Service Charge.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Water Service incorporated herein by this reference.



WATER SYSTEM CONNECTION FEES RATE NO. 3

System Connection Fees - The following schedule of fees shall apply to all new water service connections made to the mains. Existing active services that are being upgraded and replaced with a larger service shall receive an offset to the new service connection fee in the amount of the connection fee of the replaced service.

Service Connection to Main	<u>2/1/2020</u>
1" or smaller	\$1,219
1 ½"	\$2,675
2"	\$4,755
3"	\$5,349
4"	\$9,510
6"	\$21,396
8" and over	\$38,039

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of water, will be in addition to the rates set forth herein.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Water Service incorporated herein by this reference.



FIRE SERVICE RATE NO. 4

Fire Service - This rate is available to any Board of Water and Light customer desiring water service for fire protection purposes. A fire service line will be installed to a fire protection device or a customer's detector check valve in accordance with the schedule of charges for water system connection fees (Rate 3) and the current water service installation charges set forth in the Rules and Regulations for Water Service. The location of the detector check valve shall be determined by the Board of Water and Light.

Fire service lines shall be used for fire protection purposes only. No additional charges will be made for water used for routine testing and for fire response purposes. The customer shall maintain the detector check valve and fire protection system connected thereto in good condition in compliance with the BWL Cross Connection Control Program and local jurisdiction fire code.

Monthly Fire Service Charge - Water supply and maintenance of a fire service line to a fire protection device or a detector check valve shall be provided in accordance with the following schedule of charges:

Service Size	<u>2/1/2020</u>
4" or smaller	\$95
6"	\$216
8"	\$380
10" or larger	\$594

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of water, will be in addition to the rates set forth herein.

Minimum Bill - Billings subject to this rate are not subject to a Minimum Bill.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Water Service incorporated herein by this reference.



LAWN SPRINKLING WATER SERVICE RATE NO. 5

Availability - This rate is available to any customer served on the BWL's water system where the water service is installed and utilized solely for lawn and landscape sprinkling at the Service Location. Municipalities having jurisdiction over sewer system rates may designate other uses of water which are subject to this rate.

Monthly Rate - Shall be computed in accordance with the following charges:

Basic Service Charge

Billings subject to this rate are not subject to a Basic Service Charge.

Commodity Charge

2/1/2020

\$3.40 Per ccf of water

Power and Chemical Cost Adjustment - The power and chemical cost adjustment shall consist of an increase or decrease of 0.1¢ per ccf billed for each 0.1¢ increase or decrease in the average cost of power and chemicals required to deliver treated water to the customer's meter above or below 44.7¢ per ccf. The cost per ccf for the billing period shall consist of the weighted average cost of chemicals, electricity, steam and oil used in pumping and treatment facilities during the one month period preceding the month billed by two months.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of water, will be in addition to the rates set forth herein.

Minimum Bill - Billings subject to this rate are not subject to a Minimum Bill.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Application Charge - A \$10.00 charge shall be added to the first regular bill for turning on service at a Service Location irrespective of prior service with the BWL.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Water Service incorporated herein by this reference.



**FIRE HYDRANT CHARGES
RATE NO. 6**

Annual Fire Hydrant Charge - Water supply and maintenance of a fire service line to a public or private fire hydrant shall be provided in accordance with the following annual schedule of charges:

2/1/2020

Per Hydrant	\$630
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Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of water, will be in addition to the rates set forth herein.

Minimum Bill - Billings subject to this rate are not subject to a Minimum Bill.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Water Service incorporated herein by this reference.



GENERAL STEAM SERVICE RATE NO. 1

Availability - This rate is available to any customer receiving service from the Board of Water and Light (BWL) steam distribution system with a maximum gauge pressure of fifteen pounds per square inch (15 psi).

Nature of Service - Saturated steam up to a maximum gauge pressure of 15 psi. Upon request, steam services at gauge pressures above 15 psi but not exceeding 100 psi, when available, may be supplied at the option of the BWL.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2020</u>
Basic Service Charge	\$16.54 Per Service Location per month
Commodity Charge	
Months of June through November	\$18.86 Per 1,000 lbs. for the first 200,000 lbs. \$19.80 Per 1,000 lbs. for all 1,000 lbs. over 200,000 lbs.
Months of December through May	\$19.08 Per 1,000 lbs. for the first 200,000 lbs. \$20.04 Per 1,000 lbs. for all 1,000 lbs. over 200,000 lbs.

Surcharge - A surcharge of ten (10) percent shall be added to the above rates for steam service supplied upon customer's request for service at gauge pressure above 15 psi but not exceeding 100 psi.

Fuel Cost Adjustment - This rate is subject to a Fuel Cost Adjustment factor added to the above charges and calculated as defined on a separate rate schedule incorporated herein by this reference.

Amine Treatment Adjustment - The amine treatment adjustment allows for the monthly adjustment of rates to reflect the actual cost incurred due to amine feed. The factor shall be applied to each 1,000 pounds (lbs.) billed. The factor shall consist of 1.124 times the weighted average amine cost per 1,000 lbs. treated during the previous month.

Steam Environmental Charge - This rate is subject to a Steam Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of steam, will be in addition to the rates set forth herein.

Minimum Charge - The Basic Service Charge included in the rate except that Special Minimum Charges shall be billed when the revenue received does not adequately compensate the BWL for the cost of furnishing service.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Reconnect Charge - A reconnect charge shall be added to any Service Location which discontinues and reconnects service at the same Service Location within a twelve (12) month period. The reconnect charge is specified in the BWL Rules and Regulations for Steam Service.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Steam Service incorporated herein by this reference.



**INDUSTRIAL STEAM SERVICE
RATE NO. 2**

Availability - This rate is available to any customer engaged in mining or manufacturing and receiving steam at any BWL plant wall at a minimum gauge pressure of 250 psi. Service will be provided upon customer entering into a steam supply contract with the BWL. Terms and Conditions of the contract may vary due to customer requirements and the impact on BWL facilities.

Monthly Rate - Shall be computed in accordance with the following charges:

2/1/2020

Demand Charge

Contract Demand	\$1.91 Per pound per hour (lb/hr) for all lb/hrs of contract demand
Excess Demand	\$1.64 Per pound per hour (lb/hr) for all lb/hrs exceeding contract demand

Commodity Charge \$11.60 Per 1,000 lbs. (Mlbs.)

Fuel Cost Adjustment - This rate is subject to a Fuel Cost Adjustment factor added to the above charges and calculated as defined on a separate rate schedule incorporated herein by this reference.

Steam Environmental Charge - This rate is subject to a Steam Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of steam, will be in addition to the rates set forth herein.

Minimum Charge - Monthly Contract Demand Charge above.

Billing Demand - The billing demand is the maximum demand (lb/hrs) supplied during the 15-minute period of maximum use during the month, but not less than the contract demand.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Steam Service incorporated herein by this reference.



**CONTRACT STEAM SERVICE
RATE NO. 3**

Availability - This rate is available to any customer receiving service from the Board of Water and Light (BWL) steam transmission or distribution system with a gauge pressure in excess of 100 psi. Service will be provided upon customer entering into a steam supply contract with the BWL. Terms and conditions of the contract may vary due to customer requirements and the impact on BWL facilities. This service may include both firm and curtailable service.

Monthly Rate - Per contract terms.

Fuel Cost Adjustment - This rate is subject to a Fuel Cost Adjustment factor added to the charges and calculated as defined on a separate rate schedule incorporated herein by this reference.

Steam Environmental Charge - Per contract terms.

Amine Treatment Adjustment - Per contract terms.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of steam, will be in addition to the rates set forth herein.

Minimum Charge - Per contract terms.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Steam Service incorporated herein by this reference.



RESIDENTIAL STEAM SERVICE RATE NO. 5

Availability - This rate is available to any single-family dwelling or multifamily dwelling of 4 units or less when the entire service requirements are supplied at one Service Location through one meter.

Service under this rate is not available when a portion of the dwelling unit is used for commercial, industrial, or resale purposes unless the service is so arranged that residential and non-residential purposes are metered separately at separate Service Locations.

Nature of Service - Saturated steam up to a maximum gauge pressure of 15 psi. Steam services at gauge pressures above 15 psi but not exceeding 100 psi, when available, may be supplied at the option of the BWL or upon request by the customer.

Monthly Rate - Shall be computed in accordance with the following charges:

	<u>2/1/2020</u>
Basic Service Charge	\$12.25 Per Service Location per month
Commodity Charge	
Months of June through November	\$14.61 Per 1,000 lbs. for the first 200,000 lbs. \$15.29 Per 1,000 lbs. for all 1,000 lbs. over 200,000 lbs.
Months of December through May	\$14.78 Per 1,000 lbs. for the first 200,000 lbs. \$15.47 Per 1,000 lbs. for all 1,000 lbs. over 200,000 lbs.

Surcharge - A surcharge of ten (10) percent shall be added to the above rates for steam service supplied upon customer's request for service at gauge pressure above 15 psi but not exceeding 100 psi.

Fuel Cost Adjustment - This rate is subject to a Fuel Cost Adjustment factor added to the above charges and calculated as defined on a separate rate schedule incorporated herein by this reference.

Amine Treatment Adjustment - The amine treatment adjustment allows for the monthly adjustment of rates to reflect the actual cost incurred due to amine feed. The factor shall be applied to each 1,000 pounds (lbs.) billed. The factor shall consist of 1.124 times the weighted average amine cost per 1,000 lbs. treated during the previous month.

Steam Environmental Charge - This rate is subject to a Steam Environmental Charge as defined on a separate rate schedule incorporated herein by this reference.

Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of steam, will be in addition to the rates set forth herein.

Minimum Charge - The Basic Service Charge included in the rate except that Special Minimum Charges shall be billed when the revenue received does not adequately compensate the BWL for the cost of furnishing service.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Reconnect Charge - A reconnect charge shall be added to any Service Location which discontinues and reconnects service at the same Service Location within a twelve (12) month period. The reconnect charge is specified in the BWL Rules and Regulations for Steam Service.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Steam Service incorporated herein by this reference.



GENERAL CHILLED WATER SERVICE RATE NO. 1

Availability - This rate is available to any customer desiring service from the Board of Water and Light (BWL) district cooling system. Service will be provided upon the customer entering into a contract with the BWL. The contract will govern the customer's contract demand and terms and conditions of service, which may vary due to customer requirements and the impact on BWL facilities. This rate is not available for standby or emergency service.

Monthly Rate - Shall be computed in accordance with the following charges:

2/1/2020

Capacity Charge

Contract Demand	\$45.05	Per ton for all tons of billing demand less than or equal to 105% of the contract demand
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Excess Demand	\$63.08	Per ton for all tons of billing demand exceeding 105% of the contract demand
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Commodity Charge	\$0.128	Per ton-hour
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Fee and Tax Adjustment - Any taxes, assessments, franchise fees, or any other charges or fees levied by a governmental entity or political subdivision upon Board of Water & Light property, operations, or the production, distribution or sale of chilled water, will be in addition to the rates set forth herein.

Minimum Monthly Charge - The Capacity Charge included in the rate.

Billing Demand - The Billing Demand shall be the maximum demand (tons) supplied during the 15-minute period of maximum use, but not less than 85% of the Contract Demand. The General Manager is authorized to waive Billing Demand in excess of 105% of the Contract Demand where such Billing Demand is incurred is the result of emergency conditions at a Service Location and such emergency condition is caused by equipment or piping failure and the BWL concurs in the existence of an emergency condition.

Temperature Factor Adjustment - During the months of May through October; if the Service Location's return water temperature is below 52 degrees Fahrenheit (F), the Service Location's commodity charge will be increased by 2.0% for either; (1) each degree Fahrenheit the Service Location's supply and return water temperature differential is less than 10 degrees F or, (2) each degree Fahrenheit the Service Location's return water temperature is below 52 degrees F, whichever is less. The General Manager is authorized to waive the application of the Temperature Factor Adjustment where warranted.

Metering - All Service Locations using chilled water from the BWL chilled water system shall be metered. The BWL shall determine the form in which the commodity shall be metered.

Delayed Payment Charge - A delayed payment charge of 5% of the unpaid balance, excluding delayed payment charges, shall be added to any bill that is not paid on or before the due date.

Rules and Regulations - Service under this rate is subject to the BWL Rules and Regulations for Chilled Water Service incorporated herein by this reference.

Attachment C
Effect of the Proposed Rate Changes on Various
Monthly Billings to Customers

CUSTOMER IMPACT

MONTHLY ELECTRIC BILLS

FY18 BWL REVENUE INCREASE: \$2.1 million

			Current Monthly Bill	2/1/2018 Proposed Monthly Bill	Monthly Increase
<u>Residential (Rate 1)</u>					
500 KWH			\$ 72.06	\$ 75.13	\$ 3.06
750 KWH			\$ 103.60	\$ 107.07	\$ 3.47
1,000 KWH			\$ 135.13	\$ 139.01	\$ 3.88
<u>Commercial and Industrial</u>					
750 KWH	8 KW (Rate 3)		\$ 134.84	\$ 142.19	\$ 7.35
1,500 KWH	12 KW (Rate 3)		\$ 237.09	\$ 246.87	\$ 9.78
35,000 KWH	100 KW (Rate 4)		\$ 4,253.42	\$ 4,401.19	\$ 147.77
35,000 KWH	1,000 KW (Rate 4)		\$ 14,837.42	\$ 17,001.19	\$ 2,163.77
400,000 KWH	1,000 KW (Rate 5)		\$ 44,626.43	\$ 45,806.66	\$ 1,180.23
650,000 KWH	1,000 KW (Rate 5)		\$ 64,120.32	\$ 63,900.55	\$ (219.77)

MONTHLY WATER BILLS

FY18 BWL REVENUE INCREASE: \$0.6 million

			Current Monthly Bill	2/1/2018 Proposed Monthly Bill	Monthly Increase
<u>Residential (Rate 1)</u>					
Meter Size	5/8"				
CCF	5		\$ 27.03	\$ 29.30	\$ 2.27
<u>General Water Service (Rate 2)</u>					
Meter Size	4"				
CCF	365		\$ 1,582.78	\$ 1,665.06	\$ 82.28
<u>Lawn Sprinkling Water Service (Rate 5)</u>					
CCF	15		\$ 44.48	\$ 46.73	\$ 2.25

MONTHLY STEAM BILLS

FY18 BWL REVENUE INCREASE: \$0.3 million

			Current Monthly Bill	2/1/2018 Proposed Monthly Bill	Monthly Increase
<u>General Steam Service (Rate 1)</u>					
Lbs	20,000		\$ 356.28	\$ 374.23	\$ 17.95
Lbs	50,000		\$ 870.36	\$ 914.11	\$ 43.75
Lbs	200,000		\$ 3,440.74	\$ 3,613.49	\$ 172.75
Lbs	800,000		\$ 14,196.28	\$ 14,909.03	\$ 712.75
Lbs	1,000,000		\$ 17,781.46	\$ 18,674.21	\$ 892.75
<u>Industrial Steam Service (Rate 2)</u>					
Lbs	28,000,000		\$ 472,197.64	\$ 496,221.05	\$ 24,023.41

CUSTOMER IMPACT

MONTHLY ELECTRIC BILLS

FY19 BWL REVENUE INCREASE: \$10.1 million

			2/1/2018 Proposed Monthly Bill	2/1/2019 Proposed Monthly Bill	Monthly Increase
<u>Residential (Rate 1)</u>					
500 KWH		\$	75.13	\$ 78.38	\$ 3.25
750 KWH		\$	107.07	\$ 110.44	\$ 3.38
1,000 KWH		\$	139.01	\$ 142.51	\$ 3.50
<u>Commercial and Industrial</u>					
750 KWH	8 KW (Rate 3)	\$	142.19	\$ 148.67	\$ 6.48
1,500 KWH	12 KW (Rate 3)	\$	246.87	\$ 255.82	\$ 8.95
35,000 KWH	100 KW (Rate 4)	\$	4,401.19	\$ 4,524.19	\$ 123.00
35,000 KWH	1,000 KW (Rate 4)	\$	17,001.19	\$ 20,049.19	\$ 3,048.00
400,000 KWH	1,000 KW (Rate 5)	\$	45,806.66	\$ 46,991.66	\$ 1,185.00
650,000 KWH	1,000 KW (Rate 5)	\$	63,900.55	\$ 63,785.55	\$ (115.00)

MONTHLY WATER BILLS

FY19 BWL REVENUE INCREASE: \$1.9 million

			2/1/2018 Proposed Monthly Bill	2/1/2019 Proposed Monthly Bill	Monthly Increase
<u>Residential (Rate 1)</u>					
Meter Size	5/8"				
CCF	5	\$	29.30	\$ 31.43	\$ 2.13
<u>General Water Service (Rate 2)</u>					
Meter Size	4"				
CCF	365	\$	1,665.06	\$ 1,784.97	\$ 119.91
<u>Lawn Sprinkling Water Service (Rate 5)</u>					
CCF	15	\$	46.73	\$ 50.03	\$ 3.30

MONTHLY STEAM BILLS

FY19 BWL REVENUE INCREASE: \$0.4 million

			2/1/2018 Proposed Monthly Bill	2/1/2019 Proposed Monthly Bill	Monthly Increase
<u>General Steam Service (Rate 1)</u>					
Lbs	20,000	\$	374.23	\$ 400.10	\$ 25.87
Lbs	50,000	\$	914.11	\$ 977.18	\$ 63.07
Lbs	200,000	\$	3,613.49	\$ 3,862.56	\$ 249.07
Lbs	800,000	\$	14,909.03	\$ 15,938.10	\$ 1,029.07
Lbs	1,000,000	\$	18,674.21	\$ 19,963.28	\$ 1,289.07
<u>Industrial Steam Service (Rate 2)</u>					
Lbs	28,000,000	\$	496,221.05	\$ 529,838.93	\$ 33,617.88

CUSTOMER IMPACT

MONTHLY ELECTRIC BILLS

FY20 BWL REVENUE INCREASE: \$10.4 million

			2/1/2019 Proposed Monthly Bill	2/1/2020 Proposed Monthly Bill	Monthly Increase
<u>Residential (Rate 1)</u>					
500 KWH		\$	78.38	\$ 81.73	\$ 3.35
750 KWH		\$	110.44	\$ 113.97	\$ 3.52
1,000 KWH		\$	142.51	\$ 146.21	\$ 3.70
<u>Commercial and Industrial</u>					
750 KWH	8 KW (Rate 3)	\$	148.67	\$ 155.29	\$ 6.62
1,500 KWH	12 KW (Rate 3)	\$	255.82	\$ 265.07	\$ 9.25
35,000 KWH	100 KW (Rate 4)	\$	4,524.19	\$ 4,647.19	\$ 123.00
35,000 KWH	1,000 KW (Rate 4)	\$	20,049.19	\$ 23,097.19	\$ 3,048.00
400,000 KWH	1,000 KW (Rate 5)	\$	46,991.66	\$ 48,226.66	\$ 1,235.00
650,000 KWH	1,000 KW (Rate 5)	\$	63,785.55	\$ 63,720.55	\$ (65.00)

MONTHLY WATER BILLS

FY20 BWL REVENUE INCREASE: \$2.2 million

			2/1/2019 Proposed Monthly Bill	2/1/2020 Proposed Monthly Bill	Monthly Increase
<u>Residential (Rate 1)</u>					
Meter Size	5/8"				
CCF	5	\$	31.43	\$ 33.74	\$ 2.31
<u>General Water Service (Rate 2)</u>					
Meter Size	4"				
CCF	365	\$	1,784.97	\$ 1,915.14	\$ 130.17
<u>Lawn Sprinkling Water Service (Rate 5)</u>					
CCF	15	\$	50.03	\$ 53.63	\$ 3.60

MONTHLY STEAM BILLS

FY20 BWL REVENUE INCREASE: \$0.4 million

			2/1/2019 Proposed Monthly Bill	2/1/2020 Proposed Monthly Bill	Monthly Increase
<u>General Steam Service (Rate 1)</u>					
Lbs	20,000	\$	400.10	\$ 427.86	\$ 27.76
Lbs	50,000	\$	977.18	\$ 1,044.84	\$ 67.66
Lbs	200,000	\$	3,862.56	\$ 4,129.72	\$ 267.16
Lbs	800,000	\$	15,938.10	\$ 17,045.26	\$ 1,107.16
Lbs	1,000,000	\$	19,963.28	\$ 21,350.44	\$ 1,387.16
<u>Industrial Steam Service (Rate 2)</u>					
Lbs	28,000,000	\$	529,838.93	\$ 567,239.79	\$ 37,400.86

AGENDA ITEM

City Council Facebook Page
Policy- City Attorney

INFORMATION

NOT AVAILABLE

AT THE TIME

PACKET WAS

DISTRIBUTED



City of Lansing

OFFICE OF THE CITY ATTORNEY

James D. Smiertka, City Attorney

TO: CITY COUNCIL, Committee of the Whole

FROM: JIM SMIERTKA, City Attorney

DATE: OCTOBER 27, 2017

SUBJECT: APPROVAL OF OUTSIDE COUNSEL FOR OPIOID LITIGATION

In connection with the pending resolution to Approve Outside Counsel For Opioid Litigation, I have reviewed the qualifications of Weitz & Luxenberg PC, the Sam Bernstein Law Firm PLLC, and Church Wyble PC, a division of Grewal Law PC, and believes that those firms collectively possess outstanding experience and qualifications to represent the City's interests, in litigation concerning the opioid epidemic. As with all litigation handled by special counsel, this litigation will be conducted under the direct supervision of the City Attorney and pursuant to a negotiated engagement letter.

A handwritten signature in black ink, which appears to read "J D Smiertka", followed by a long horizontal flourish.

RECEIVED

OCT 30 2017

LANSING CITY COUNCIL

WEITZ & LUXENBERG



Paul J. Pennock

Practice Group Co-Chair, Drug and Medical Device Litigation

Weitz & Luxenberg
New York Office
700 Broadway
New York, NY 10003
Phone: 212-558-5500
Fax: 212-344-5461

For two decades, Mr. Pennock has been chair of the Drug and Medical Device Litigation practice group at Weitz & Luxenberg.

He is directly responsible for leading a large national litigation department covering all aspects of litigation — from inception through trial. He has served as lead plaintiffs' counsel, as well as plaintiff steering committee member, and liaison counsel in numerous state and federal multidistrict-litigation (MDL) mass tort cases.

This includes his current appointment as co-lead of the federal court Actos Multidistrict-Litigation coordination. In this role, he led the efforts in the recent \$9 billion jury verdict, at the time the highest jury verdict in history for a personal injury case. Mr. Pennock has also handled numerous bellwether trials and Daubert hearings on expert-witness testimony in both state and federal courts.

He was also named national co-lead counsel of the federal power morcellator MDL, where he organized the first majority women Plaintiff Steering Committee in the 47 year history of multidistrict litigation.

As a well-respected member of the bar, he has been an invited speaker to dozens of legal conferences around the country, as well as at several law schools including Yale, Brooklyn, and the University of Denver, among others.

In 2007, he was honored with the invitation to author the mass tort litigation chapter in a two-volume legal treatise, "The Plaintiff's Personal Injury Action in New York State" published by New York State Bar Association, edited by Patrick J. Higgins. It was published in 2009 and Mr. Pennock regularly provides updates.

Every year since 2007 he has been designated a "Super Lawyer." He also has been a long-running "Best Lawyers" honoree. The National Law Journal calls him one of "America's Elite Trial Lawyers."

Mr. Pennock is widely considered, by both sides of the bar, as one of the best and most aggressive plaintiff litigators in the country. His work has led to more than a billion dollars in recoveries for Weitz & Luxenberg clients.

LEADERSHIP ROLES (PLAINTIFFS' STEERING COMMITTEES OR LIAISON COUNSEL)

- Accutane Products Liability Litigation, MDL No. 1626
- Actos Products Liability Litigation, MDL No. 2299, Co-Lead Counsel
- Ethicon, Inc., Power Morcellator Products Liability Litigation, MDL No. 2652, Co-Lead Counsel
- Depuy Orthopaedics, Inc., Pinnacle Hip Implant Products Liability Litigation, MDL No. 2244, Science Committee
- Guidant Corp. Implantable Defibrillators Products Liability Litigation, MDL No. 1708
- New York State ReNu with MoistureLoc Product Liability Litigation, Index No. 766,000/2007, Liaison Counsel
- Proton-Pump Inhibitor Products Liability Litigation, MDL 2789, Co-Chair of Plaintiffs' Executive Committee
- Seroquel Products Liability Litigation, MDL No. 1769, Co-Lead Counsel
- Silicone Breast Implant Litigation, Index No. 500,000/1993, Liaison Counsel
- Wright Hip System Cases, Judicial Council Coordination Proceeding (JCCP) No. 4710

- Yasmin and Yaz (Drospirenone) Marketing, Sales Practices and Products Liability Litigation, MDL No. 2100

EDUCATION

- J.D., St. John's University, 1988
- B.A., Syracuse University, 1984

ASSOCIATIONS AND LICENSES

- American Association of Justice
- New York State Bar Association
- New York State Trial Association

BAR ADMISSIONS

- 1989, New York
- 1992, U.S. District Court, Southern District of New York
- 1997, U.S. District Court, Eastern District of New York
- 2003, United States Supreme Court
- 2005, U.S. District Court, Western District of New York
- 2011, U.S. District Court, Northern District of New York
- 2014, United States Court of Appeals, 5th Circuit

PUBLICATIONS

- Pennock, Paul J. "Mass Tort Litigation In New York State Courts: A Practice Manual." The Plaintiff's Personal Injury Action In NY State. Vol. One. NY State Bar Association, 2009
- Increased Scrutiny of Pharmaceutical Company Clinical Trials – The Plaintiff Responds. AML Law Journal Newsletters. LJN's Product Liability Law & Strategy. Vol. 25, #2. August 2006
- Merck's Strategy for Dealing with Vioxx: Why the Old Recipes for Success Won't Succeed. AML Law Journal Newsletters. LJN's Law Journal Newsletter. June/July 2005

SPEAKING ENGAGEMENTS

- Speaker: Louisiana State Bar Association, 17th Annual Class Action/Complex Litigation Symposium, November 10, 2017, Ritz-Carlton Hotel, New Orleans (upcoming)
- Speaker: Mass Torts Made Perfect, Nexium and Prilosec Litigation – Kidney Failure, October 19, 2017, Bellagio Hotel, Las Vegas, NV
- Speaker: Mass Torts Made Perfect, Nexium and Prilosec Litigation – Kidney Failure, April 27, 2017, Wynn Hotel, Las Vegas, NV
- Speaker: Counsel Financial, AAJ 2017 Winter Convention, Building a Mass Torts Practice: Straight Talk from the Experts, February 12, 2017, JW Marriott, Austin, TX
- Co-Chair: Harris Martin's MDL Conference: Proton Pump Inhibitors, Eliquis & Stryker Accolade Hip System, January 25, 2017, Nobu Eden Roc Hotel, Miami Beach, FL
- Co-Chair: HarrisMartin's Proton Pump Inhibitors – Kidney Injury Litigation Conference, June 15, 2016, Philadelphia, PA
- Moderator: HarrisMartin's MDL Conference: 'Bet-the-Company' Mass Tort Litigation, Rapid Fire Updates on all Major Mass Tort Pharmaceutical and Medical Device Litigation, May 25, 2016, Thompson Chicago, Chicago, IL
- Speaker: Louisiana State Bar Association, 15th Annual Class Action/Complex Litigation Symposium, November 13, 2015, Hyatt French Quarter Hotel, New Orleans, LA
- Co-Chair: HarrisMartin's MDL Conference: Morcellator, Fluoroquinolone (FLQ) and Invokana Litigation, September 30, 2015, The Crowne Plaza Times Square, New York, NY
- Speaker: AAJ 2015 Annual Convention, Section on Toxic, Environmental, and Pharmaceutical Torts (STEP), July 13, 2015, Montreal Convention Center, Montreal, Canada
- Invited Faculty: Power Morcellator Litigation Webinar Presented with the AAJ's Laparoscopic Power Morcellator Litigation Group, February 11, 2015
- Speaker: Louisiana State Bar Association, 14th Annual Class Action/Complex Litigation Symposium, Experts: How to Protect, Select and Survive Daubert – Expert Roundtables, Science Tutorials, Rule 706, and Principal Investigations, November 21, 2014, New Orleans, LA

- Speaker: Mass Torts Made Perfect: Actos Litigation Update, October 9, 2014, Bellagio Hotel, Las Vegas, NV
- Invitee: Multi-District Litigation (MDL) Best Practices Conference, Duke Law Center for Judicial Studies, Crystal Gateway Marriott, September 11-12, 2014, Arlington, VA
- Speaker: Perrin Conferences National Complex Litigation Conference: A Symposium on Current & Emerging Issues. The Role of Document Preservation and Sanctions in Mass Torts — A Necessary Protection or a New Sword, June 11, 2014, Omni Chicago Hotel, Chicago, IL
- Speaker: AAJ Education's Plaintiff-Only Hot Topics and Trends in Litigation Seminar: GM Auto Recall, Pharmaceuticals, and Medical Devices, May 27-28, 2014, Sheraton Chicago Hotel & Towers, Chicago, IL
- Speaker: Louisiana State Bar Association, 13th Annual Class Action/Complex Litigation Symposium Experts; How to Protect, Select, and Survive Daubert – Expert Roundtables, Science Tutorials, Rule 706, and Principal Investigators, November 22, 2013, Westin New Orleans Canal Place Hotel, New Orleans, LA
- Speaker: AAJ Annual Convention, Getting the FDA to Act: Testimony Before the FDA and How it Impacts Consumer Safety, July 22; Litigation Strategy, July 23, 2013, Hilton, San Francisco, CA
- Speaker: Louisiana State Bar Association, 12th Annual Class Action/Complex Litigation Symposium, Where's the Fifth Circuit on Daubert?, November 30, 2012, Ritz-Carlton Hotel, New Orleans, LA
- Speaker: MTMP.Presents: Actos Litigation: Winning the Cancer Case, October 11, 2012, The Bellagio Hotel, Las Vegas, NV
- Speaker: Harris Martin's Mass Tort Litigation Conference with Judge Marina Corodemus (Ret.), Off Label vs. Approved Labeled Representations, June 4, 2012, The Ritz-Carlton Hotel, Philadelphia, PA
- Speaker: Mass Tort Strategies CLE Workshop, Actos: Act now? State & Federal Court Coordination – Criteria for Evaluating Cases, May 21, 2012, Trump International Chicago, IL
- Co-Chair: MTMP Productions Presents: Actos and Pelvic Mesh Litigation. A plaintiffs only forum, February 8-9, 2012, The Ritz-Carlton Hotel, Philadelphia, PA
- Co-Chair/Speaker: Harris Martin's MDL Conference: Transvaginal Mesh and ACTOS Litigation, January 25, 2012, Miami, FL
- Speaker: Pharmaceutical & Medical Device Litigation, 11th Annual Class Action/Mass Tort Symposium, Louisiana State Bar Association, December 9, 2011, New Orleans, LA.
- Speaker: Actos Science, HarrisMartin's MDL Conference: Transvaginal Mesh and ACTOS Litigation, November 30, 2011, Savannah, GA
- Speaker: American Association for Justice Education Yaz/Yasmin Teleseminar re: FDA/ Advisory Committee (Ad-Comm) November 10, 2011
- Speaker: Mass Torts Made Perfect Presents Yaz Litigation and Emerging Torts: SSRIs, Transvaginal Mesh and Actos
- Speaker: The Regulatory Story – How Yaz and Yasmin Got Approved and Actos Litigation – Overview and Analysis, Mass Torts Made Perfect Presents: YAZ and SSRI/Birth Defect Litigation, September 13, 2011, The Westin Hotel, Philadelphia, PA
- Speaker: Mass Tort Settlements-The Ideal and the Reality, Mass Torts Judicial Forum with Hon. Marina Corodemus (Ret.), June 27, 2011, The Rittenhouse Hotel, Philadelphia
- Speaker: Harris Martin Publishing, Development of the Product: Design-Through-Recall Including FDA 510k Approval and DePuy's Promotion and Marketing of the ASR Hip, Johnson & Johnson DePuy Hip Implant Litigation Conference, N2010 – Durham, NC.
- Speaker: The Case for Mass Torts, Yale Law School, November 1, 2010, New Haven, CT
- Speaker: Defense Research Institute Corporate Counsel Roundtable, St. Regis Hotel, January 22, 2010, New York, NY
- Speaker: Seroquel Update, Mass Torts Made Perfect, October 15-16, 2009, Las Vegas, NV
- Lecturer: Medical Products Liability, Vioxx Liability, Brooklyn Law School, April 4, 2007
- Co-Chair: Mealeys' Vioxx Litigation Conference, December 11-12, 2006, Key Biscayne, FL
- Speaker: Identifying the Emerging Areas of Pharmaceutical & Medical Device Litigation, Mealey's Teleconference, August 17, 2006
- Speaker: Contact Lens Solution Litigation, Focus on the Contact Solution Litigation, Mealey's Teleconference, June 27, 2006
- Speaker: Verdicts & Mistrials – Where Are We Now? The Impact of the First Vioxx Trials on the Future of the Litigation, Mealey's Vioxx Litigation Conference, May 8 – 9, 2006, Amelia Island, FL
- Speaker: ATLA Heart Device Litigation Group, Guidant MDL Meeting, The Unsettled J&J Takeover of Guidant, December 15, 2005, Minneapolis, MN

- Speaker: Mealey's Vioxx Litigation Conference, What's Next? A Look to the Future in the Vioxx Litigation, December 12 – 13, 2005, Las Vegas, NV
- Speaker: Mealey's Vioxx Litigation Conference, Consolidated Proceedings, NJ Update, December 12 – 13, 2005, 2005, Las Vegas, NV
- Speaker: Mealey's Vioxx Litigation Conference, Case Evaluation: What's New, June 22 – 23, 2005, New Orleans, LA
- Speaker/Faculty Member: New York State Trial Lawyers' Association, Federal Practice for State Practitioners, The Use of Jury Questionnaires and Motions in Limine from a Plaintiff's Perspective, April 6, 2005, New York, NY
- Invitee: Conference on Electronic Discovery, February 20-21, 2004, Fordham University School of Law, New York, NY
- Speaker: Mealey's Conference on Baycol Litigation, The Non-Rhabdo Case: Disease Processes With or Without Elevated Enzyme Levels, June 2- 3, 2003, Amelia Island, FL
- Speaker: The Association of the Bar of the City of New York, The Future of Expert Testimony, Science of Technical Testimony, January 30, 2003, New York, NY
- Speaker: Association of Trial Lawyers Association, Baycol and its Impact on Elderly Women, October 25 – 26, 2002, Scottsdale, AZ
- Speaker: Mealey's PPA & Ephedra Litigation Conference, Medical Literature: What is Known Regarding Heart Attacks, Strokes and Psychosis, February 4 -5, 2002, Philadelphia, PA
- Speaker: Association of the Bar of the City of New York, The Future of Expert Testimony, January 30, 2002, New York, NY
- Speaker: Mealey's Conference on Baycol Litigation, Theories of Liability, January 14 -15, 2002, San Diego, CA
- Speaker: Mealey's Conference on Propulsid Litigation, The "Hot" Documents and the "Key" Documents, June 14-15, 2001, New Orleans, LA
- Speaker: Mealey's Conference on Propulsid Litigation, Liability Issues Part I: The Internal Documents, January 22 – 23, 2001, New Orleans, LA

WEITZ & LUXENBERG



Paul F. Novak

Managing Attorney, Detroit Office

Weitz & Luxenberg
Chrysler House
719 Griswold, Suite 620
Detroit, MI 48226
Phone: 313-800-4170
Fax: 646-293-7992

I have been fortunate enough to spend my entire legal career dedicated to the protection of the public. Whether it was through consumer advocacy on behalf of utility company ratepayers, targeting illegal price gouging in the pharmaceuticals industry, attacking corporate mismanagement and fraud on behalf of shareholders or litigating against corporate polluters who foul our land and poison our water, the underlying theme has always been the same: companies that take advantage of the public and behave irresponsibly should be taken to task and held responsible.

Paul Novak has a distinguished career of prosecuting complex civil cases against corporate wrongdoers and came to Weitz & Luxenberg to manage the firm's Detroit office and continue his practice of fighting irresponsible corporate behavior.

In the late 1980s, as an Assistant Attorney General in Michigan Attorney General Frank Kelley's office, Mr. Novak successfully attacked an illegal \$1.5 billion transaction by Michigan's largest public utility, Consumers Power Company, and saved hundreds of millions of dollars for Michigan's ratepayers.

Mr. Novak is a national leader in litigation against the pharmaceutical industry. He led an \$80 million case on behalf of all fifty State Attorneys General that attacked anticompetitive "pay for delay" deals that increase the price of prescription drugs and delay generic products from coming to market. And he has participated in several additional cases and obtained several hundred million dollars in recoveries on behalf of injured consumers and third-party payers who are overcharged by pharmaceutical companies.

Mr. Novak was appointed, by several state and federal courts, as lead counsel for plaintiffs in class action cases involving antitrust violations and in shareholder class actions. He has tried numerous antitrust and environmental enforcement cases to judgment and was awarded the Frank J. Kelley Distinguished Trial Advocacy Award for his service in the Michigan Attorney General's office. His antitrust work has been featured in the National Law Journal on the "Plaintiffs' Hot List." He is routinely recognized as one of Michigan's Super Lawyers, as a Best Lawyer in DBusiness Magazine, as AV-rated by Martindale Hubbell, and as one of the top plaintiff antitrust lawyers in the nation by the Global Competition Review's Who's Who in International Competition Law. He was the former division head of the Special Litigation Division in the Michigan Attorney General's office with responsibility for all antitrust, securities regulation, and utility ratepayer consumer advocacy matters. And he served as the City Attorney of Lansing.

He sits on the State Bar of Michigan's U.S. Courts Committee. Among dozens of legal and civic organizations, Mr. Novak served as a member of the:

- State Bar of Michigan's Antitrust, Franchising and Trade Regulation Section (former chair)
- National Association of Attorneys General Midwest Antitrust Enforcement Task Force (former chair)
- National Association of Attorneys General Prescription Drug Pricing Task Force
- Michigan Attorney General's Litigation Advisory Board
- Lansing City Council

- Lansing Economic Development Corporation

He clerked at the Federal Trade Commission Regional Office in Atlanta, Georgia, the Michigan Public Service Commission in Lansing, Michigan, and as a Lyndon Baines Johnson Congressional intern while working on Capitol Hill in Washington D.C.

EDUCATION

- J.D., Emory University School of Law, 1986
- M.A. in Economics, Michigan State University, 1983
- B.A., Michigan State University, 1982

BAR ADMISSIONS

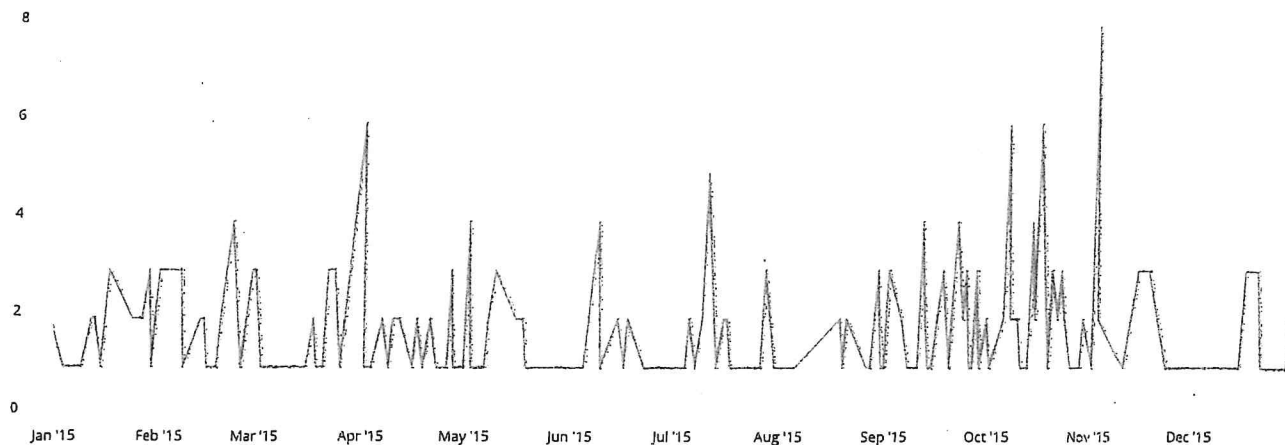
- Michigan

INTERVENTIONS

in school and home place

DAYS
in Selected Three Slice

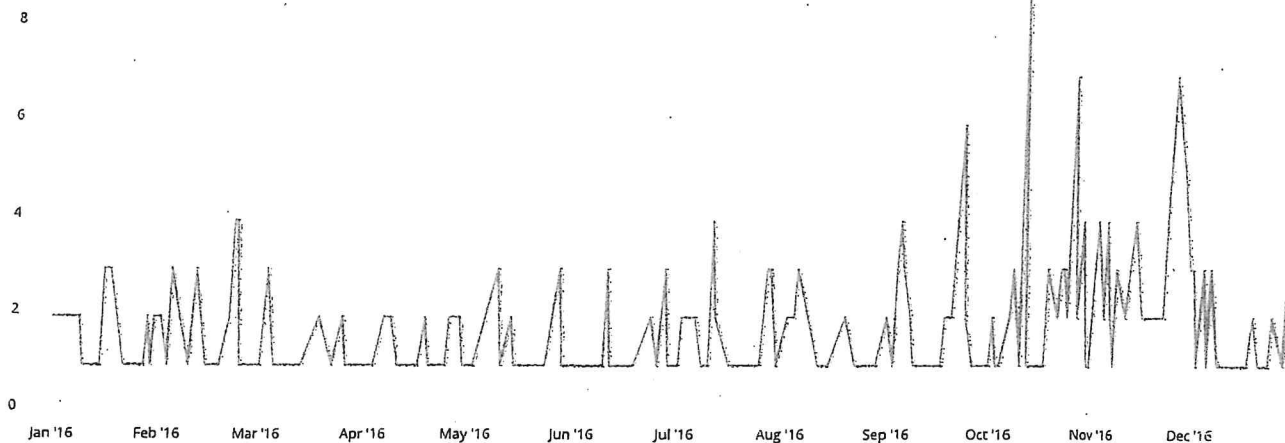
PATIENTS



INTERVENTIONS

DAYS
In 24 hours, how often

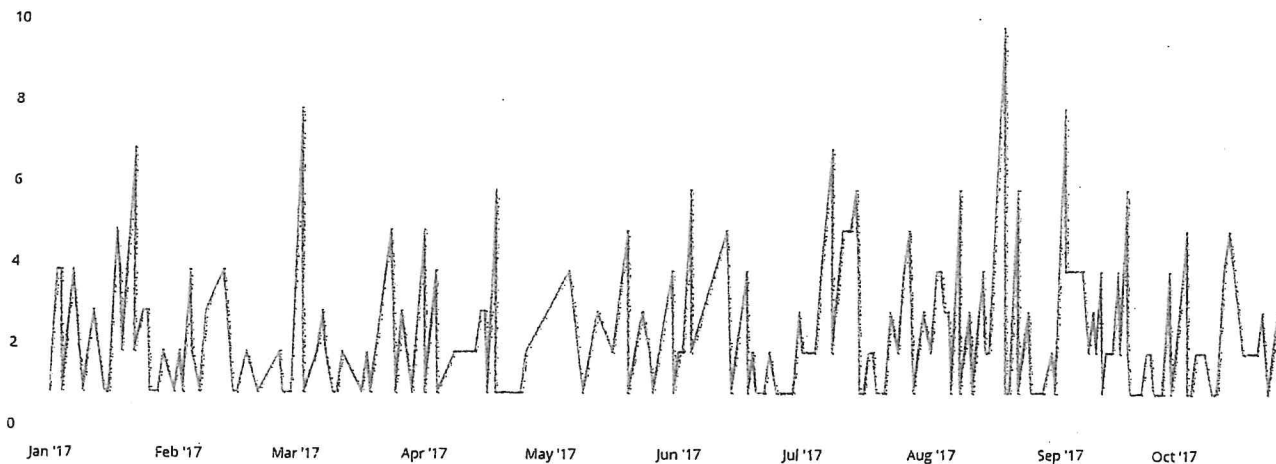
PATIENTS



INTERVENTIONS

DAYS
in Selects: 10-15-20-25-30

PATIENTS



1 1 5th 10 - mtr

Ingham County Opioid Surveillance

EMS/ Fire Department

Source: City of Lansing Fire Department/EMS

Data is current as of Oct. 16, 2017

- Naloxone Incidence is a record from EMS where Naloxone was administered to a person at a specific place and time excluding repeated doses.
- Total number of Naloxone incidences 297
 - Number of Naloxone incidences (1 dose administered per person) 184
 - Number of Naloxone incidences (2 doses administered per person) 84
 - Number of Naloxone incidences (3 doses administered per person) 23
 - Number of Naloxone incidences (4 or more doses administered per person) 6
 - Average age: 41 years
 - Median age: 38 years

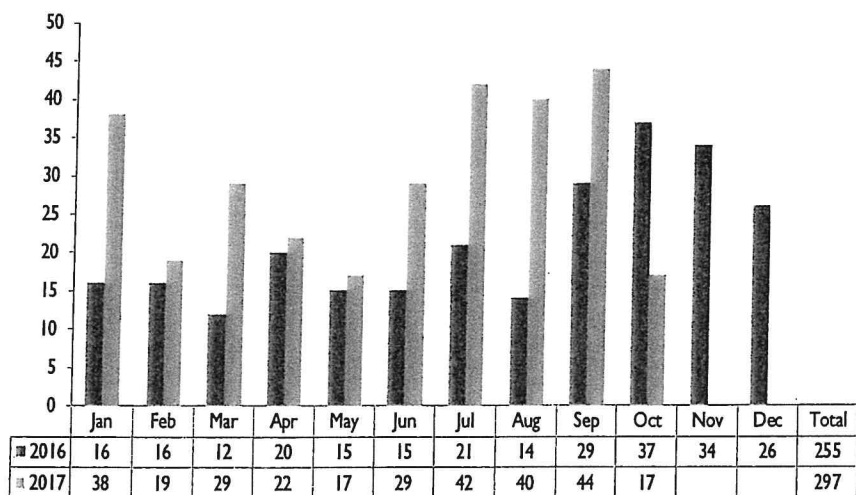
Table 2: Number of Naloxone incidences by Month in Ingham County, 2017*

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Year to Date
38	19	29	22	17	29	42	40	44	17	0	0	297

Source: City of Lansing Fire Department/EMS

*Data is current as of 10/16/2017

Figure 3: Number of Naloxone incidences by month in Ingham County, 2016 - 2017*



Source: City of Lansing Fire Department/EMS

*Data is current as of 10/16/2017

Ingham County Opioid Surveillance

Table 3: Naloxone incidence by Demographic Characteristics, City of Lansing 2017*

Characteristic	Count	Percent
Sex		
Male	164	55.2%
Female	74	24.9%
Missing	59	19.9%
Age Group		
<15	2	0.7%
15-24	30	10.1%
25-34	89	30.0%
35-44	56	18.9%
45-54	49	16.5%
55-64	49	16.5%
≥65	17	5.7%
Missing	5	1.7%
Race		
White	104	35.0%
Black	37	12.5%
Other Race	4	1.3%
Missing	152	51.2%
Total	297	100.0%

Source: City of Lansing Fire Department/EMS 2017

*Data is current as of 10/16/2017

Lansing Police Department

OPIOID EPIDEMIC



Virg Bernero, Mayor



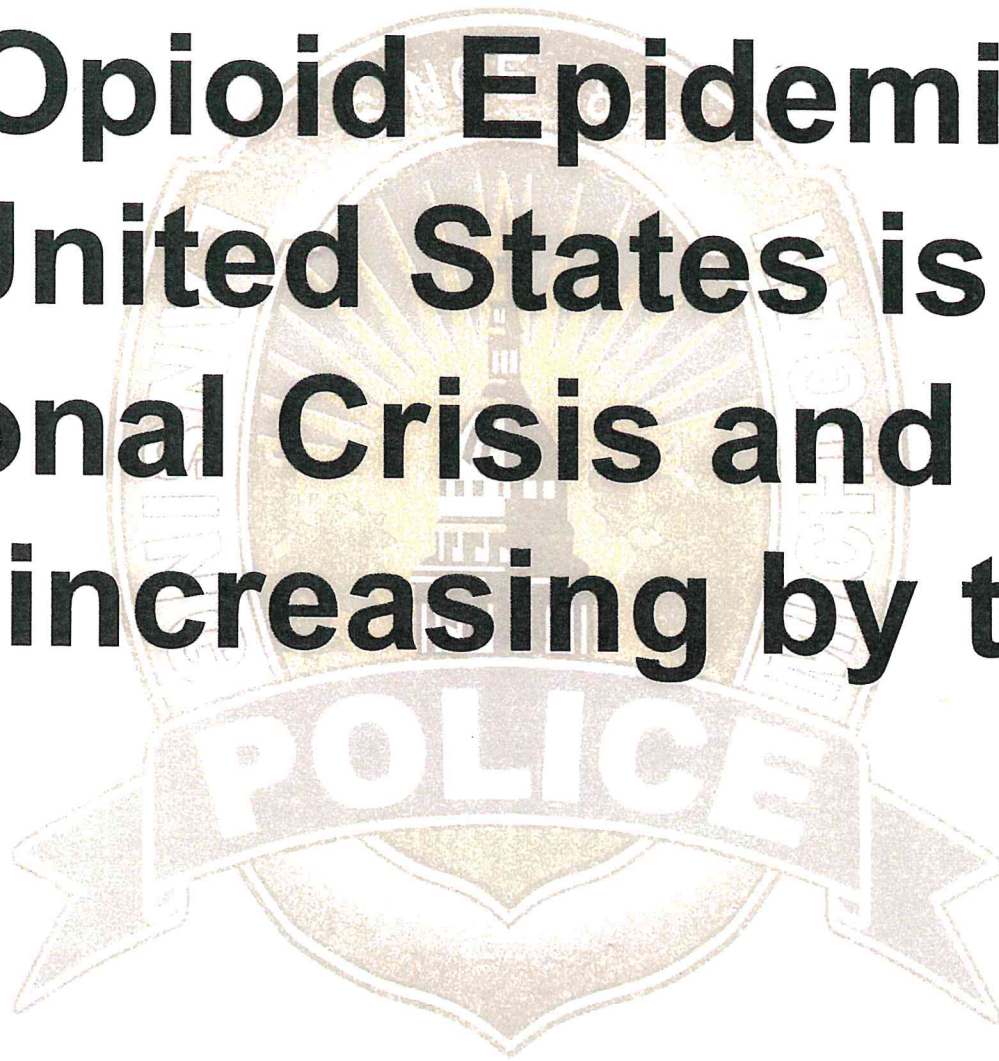
Mike Yankowski, Chief

Presented by: Chief Mike Yankowski – October 30, 2017

submitted @ mta

LANSING POLICE DEPARTMENT

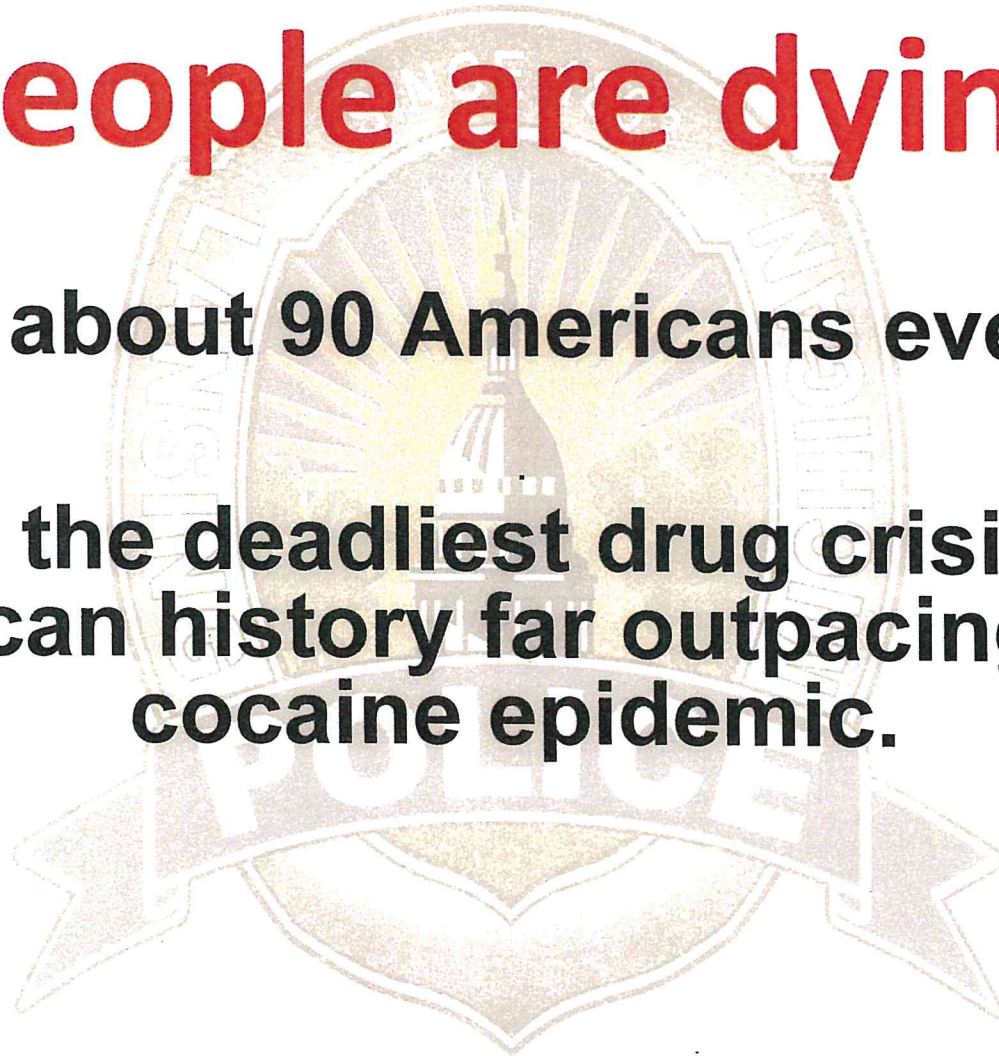
The Opioid Epidemic in the United States is a National Crisis and is only increasing by the day.



“People are dying”

It kills about 90 Americans every day

**It's the deadliest drug crisis in
American history far outpacing crack
cocaine epidemic.**



LANSING POLICE DEPARTMENT

- **58,220 U.S. Soldiers killed in the Vietnam War**
- **50,628 killed in HIV/AIDS's peak year**
- **54,711 killed in fatal traffic accidents and murder-2016**
- **64,070 Drug Overdose Deaths in the U.S. For 2016**

LANSING POLICE DEPARTMENT

Public Health Crisis that is being led by the Public Health Office

Action Plan-

- Data Gathering and Analysis
- Awareness / Education
- Prevention
- Treatment
- Accountability

LANSING POLICE DEPARTMENT

The Opioid Epidemic: A Crisis Years in the Making

- **Prescription Pill Abuse**
- **Fueled by pharmaceutical companies and overprescribing Doctors**
- **Americans consume over 80% of the global market for opioids.**
- **Example: Small Town in West Virginia (392 pop.) received 9 million pills in two years.**

LANSING POLICE DEPARTMENT

Lansing Police Surveillance Report

	<u>2015</u>	<u>2016</u>	<u>2017*</u>
Overdoses=	137	155	177
Deaths=	21	21	16
Narcan Saves=		6	10

* YTD= Jan 1st - Sept. 30th

2015-2017

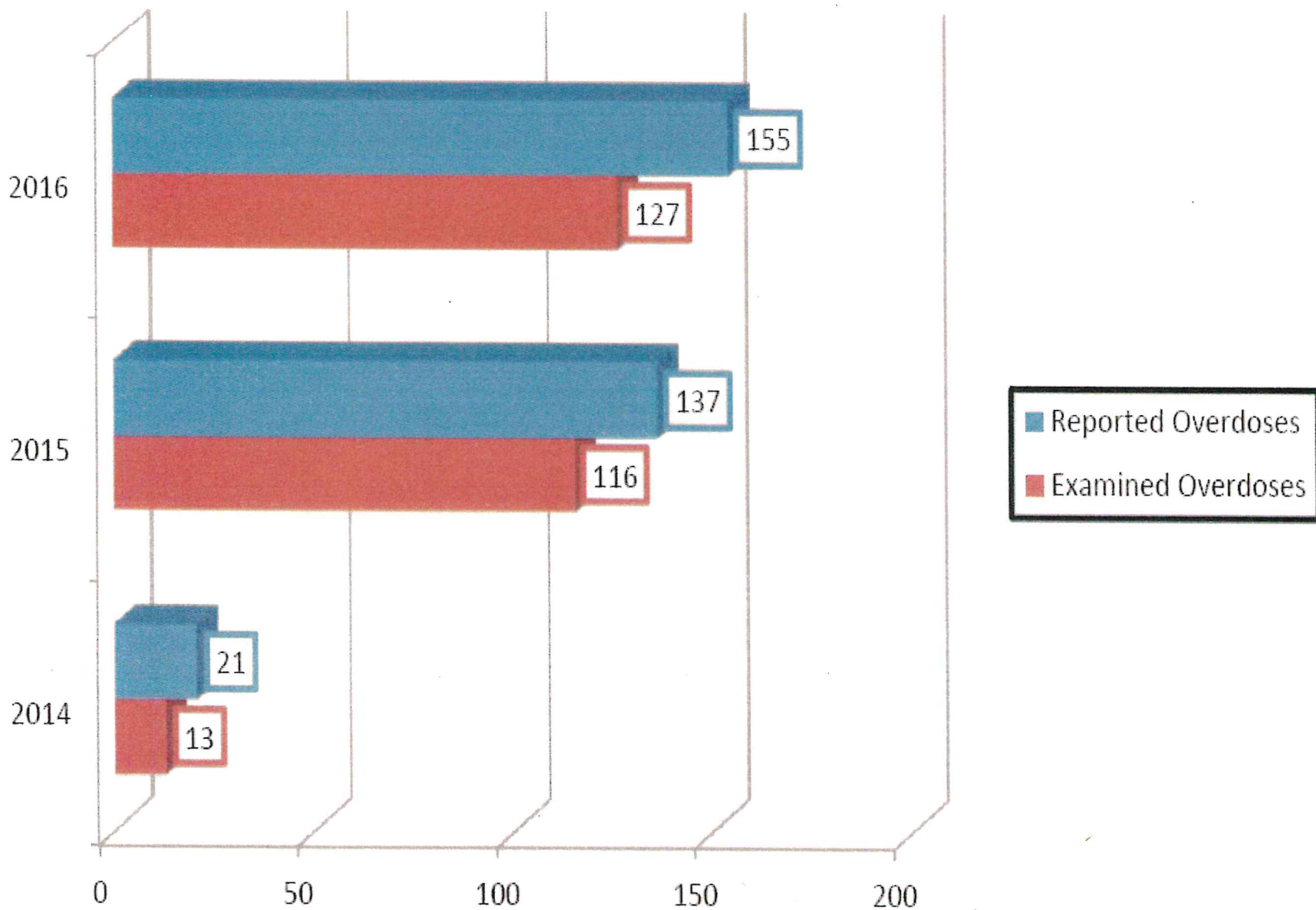
Lansing Police Department



The Financial Impact of Opioids

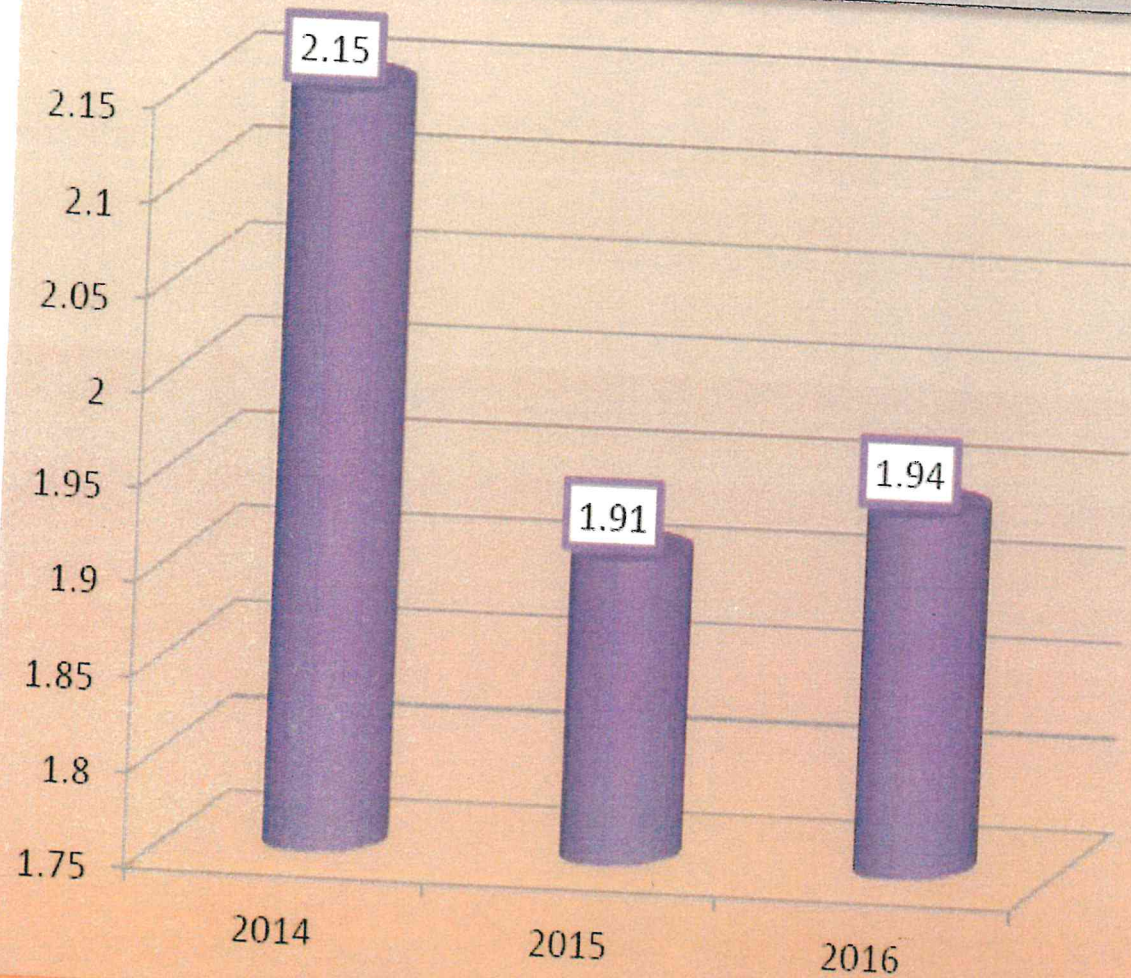
Lansing Police Department
August 2017

Actual Heroin O/D's vs O/D's Used in Study



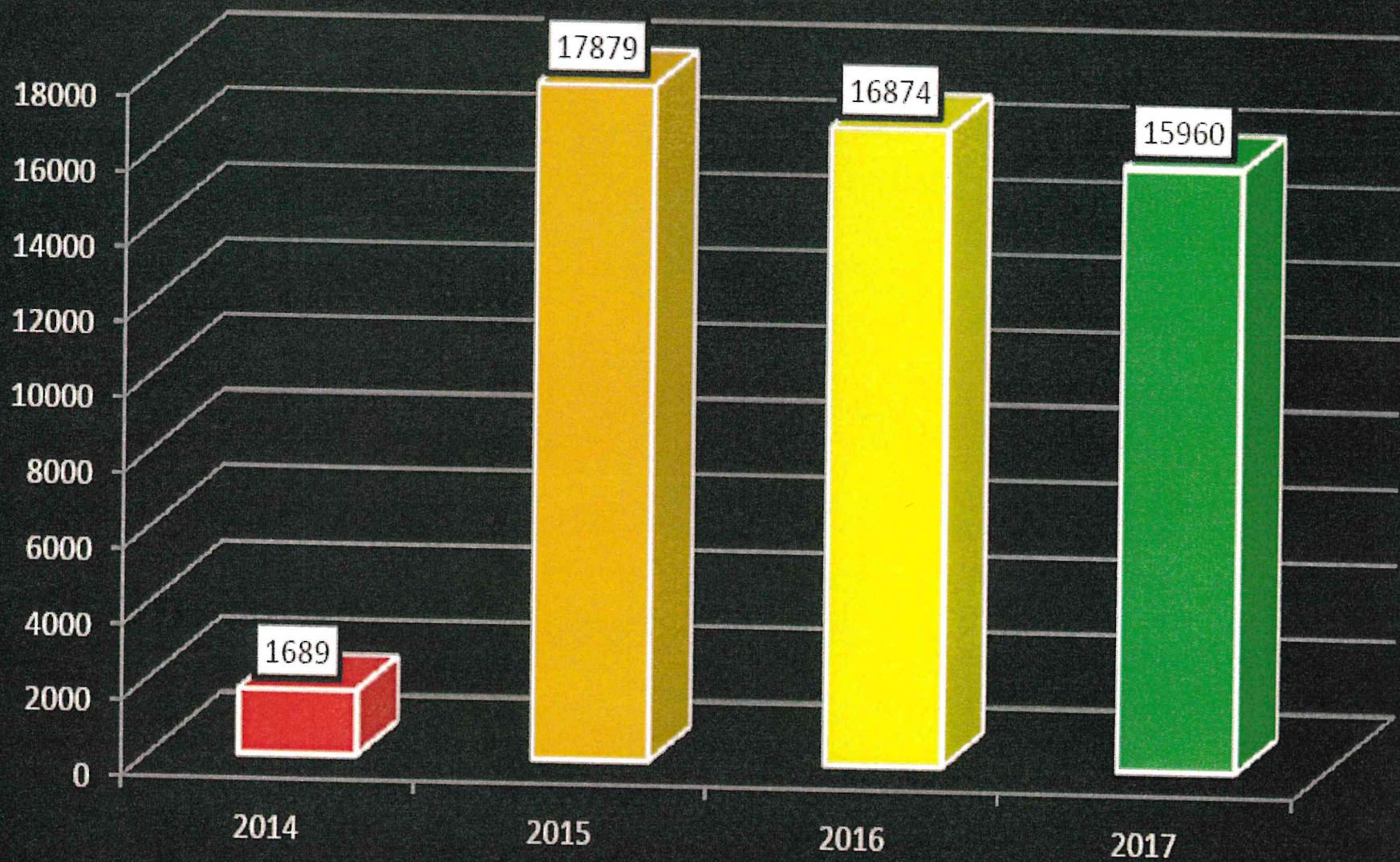
Average Time Elapsed	
2014	2:09:59
2015	2:34:08
2016	2:12:52

Average # of Responding Officers



■ Average # of Responding Officers

Minutes Spent on Heroin Overdoses

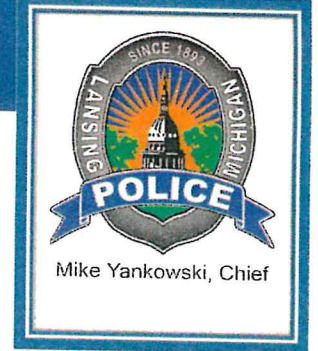


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- The Total estimated expenses including wage benefits from 2015-2017=

\$748,995.75

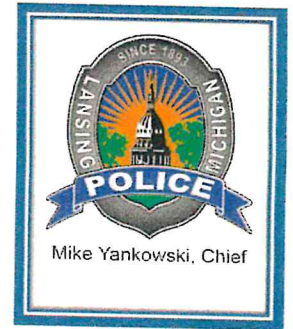
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LPD Case Example-

- In 2010 LPD Special Operations began an investigation into the illegal prescription practices and medical fraud against medical personnel operating in and around Lansing.
- The investigation was a result of prescription pill overdoses which resulted in deaths as well as information related to illegal practices associated to the medical businesses in the City of Lansing.

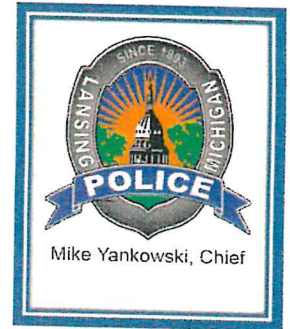
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LPD Case Example-

- From the efforts of the Special Operations Section, a pattern was identified regarding fraudulent medical practices which was the basis for a large cooperative federally sponsored investigation.
- Complex case that blended together to uncover additional investigations

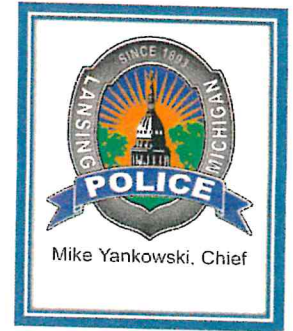
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LPD Case Example-

As a result of these investigations, the LPD SOS Unit contributed between 10,000 to 15,000 hours of investigative personnel time.

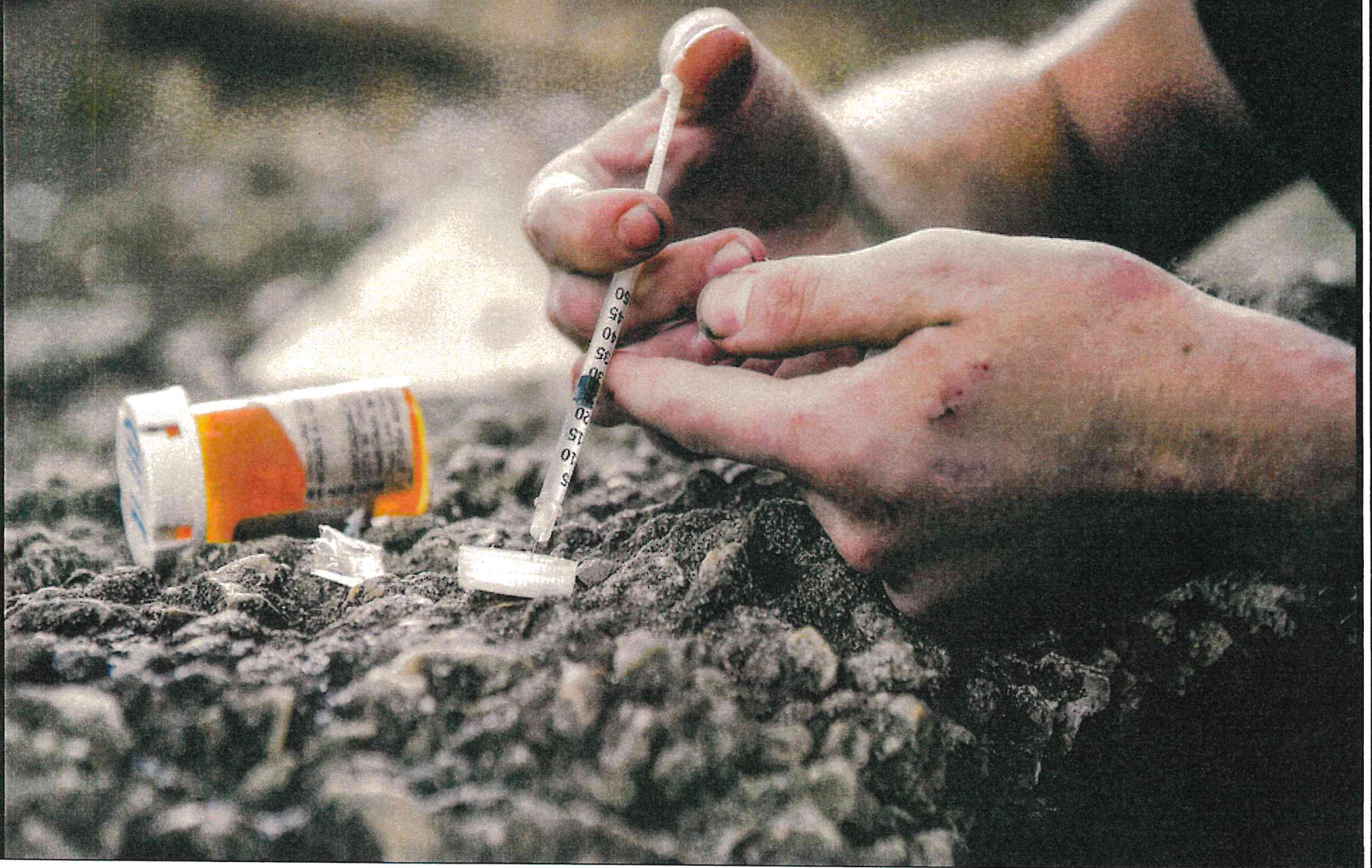
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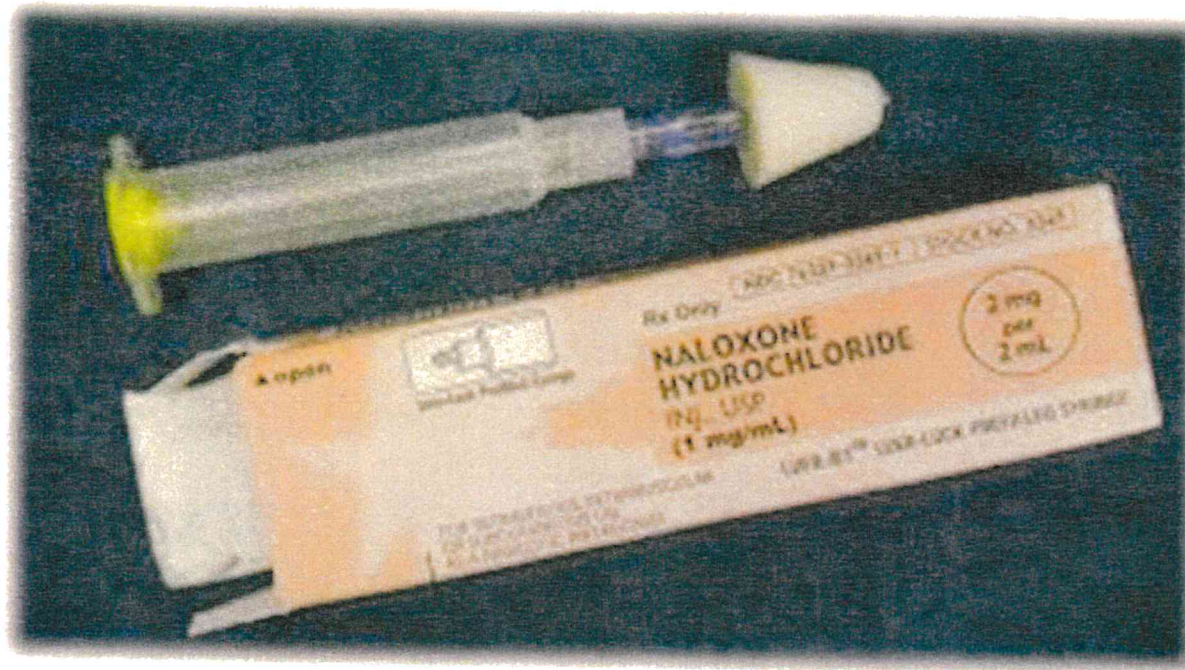
LPD Case Example-

The investigation found the accounts from the actual patients who were suffering from real disabilities and disease to be the real victims and the network of doctors and pharmaceutical companies combined actions to be deplorable

“PEOPLE ARE DYING”



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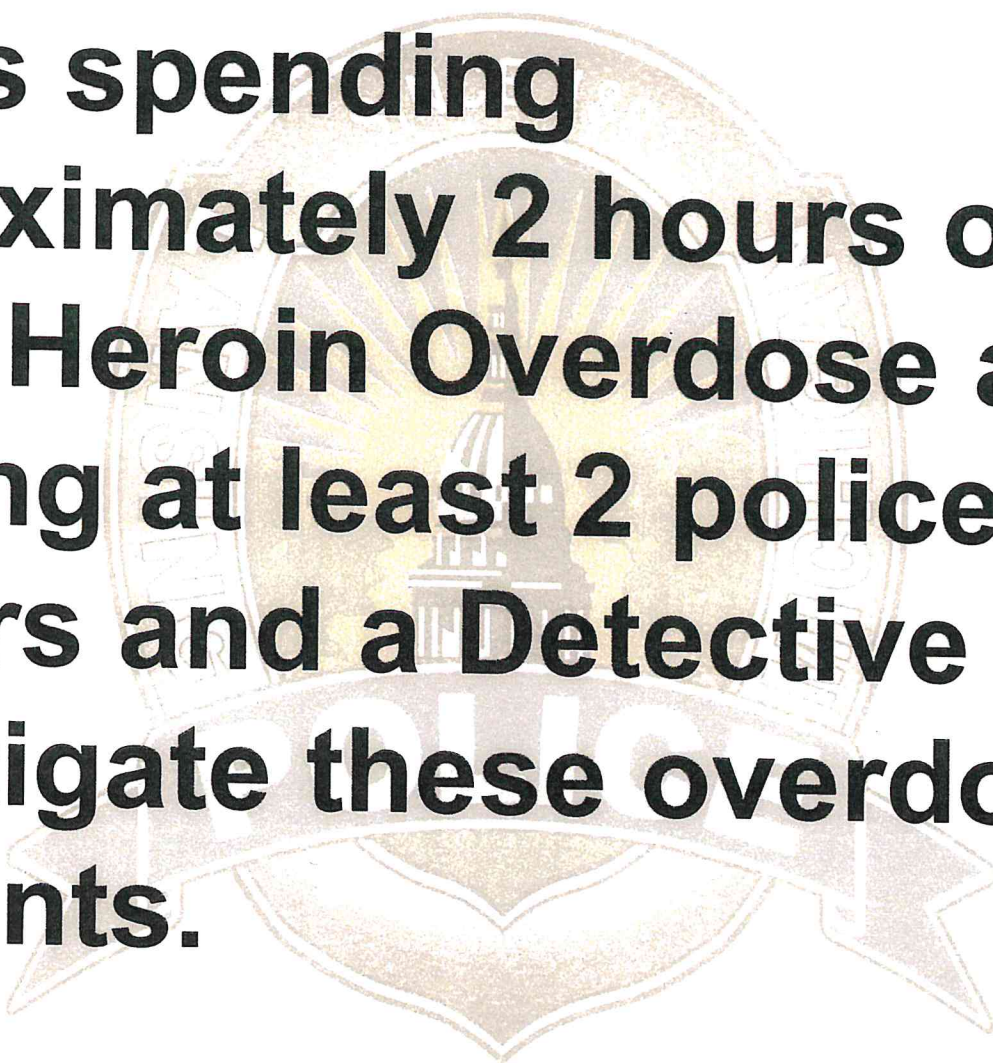


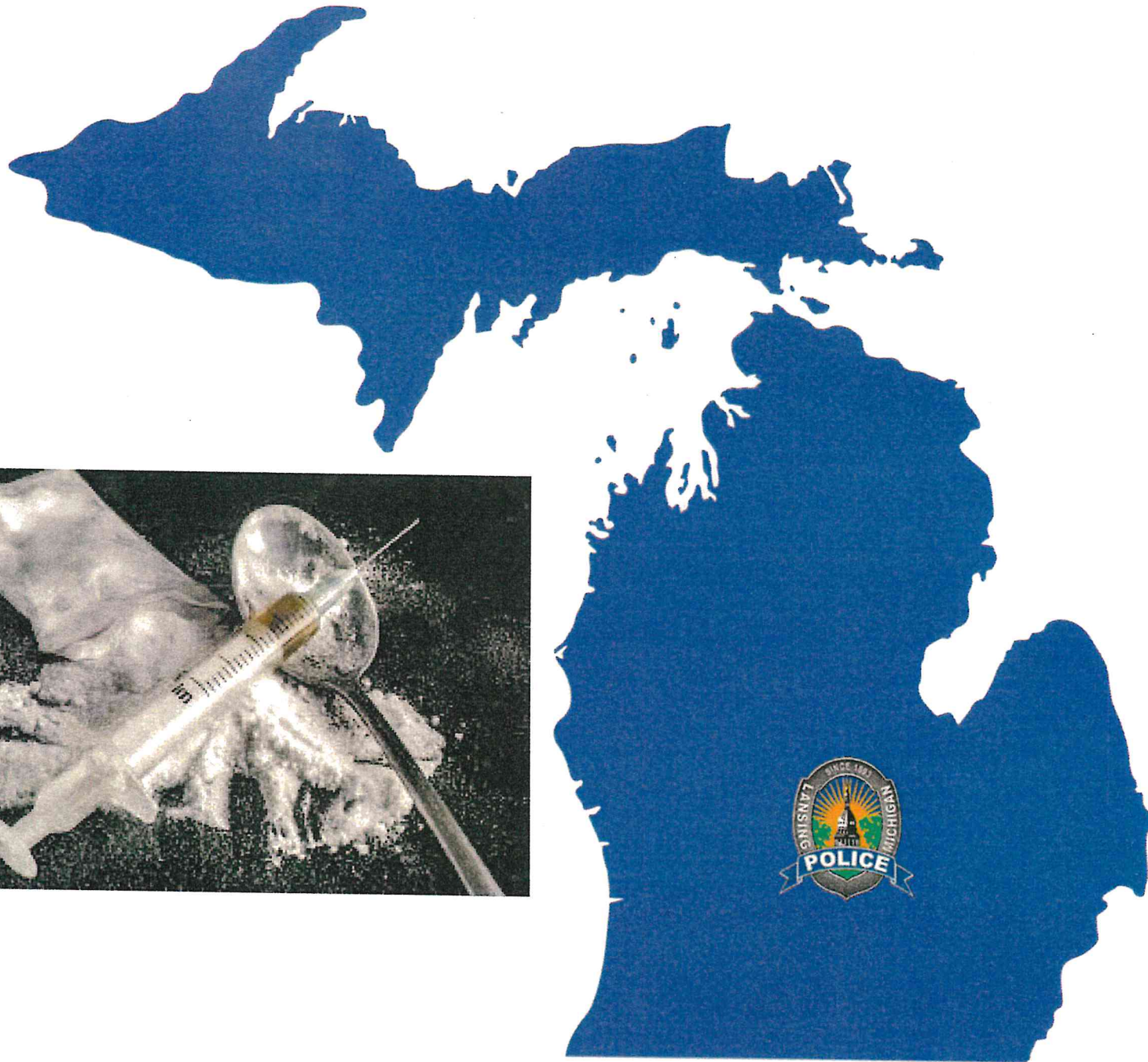
NALOXONE



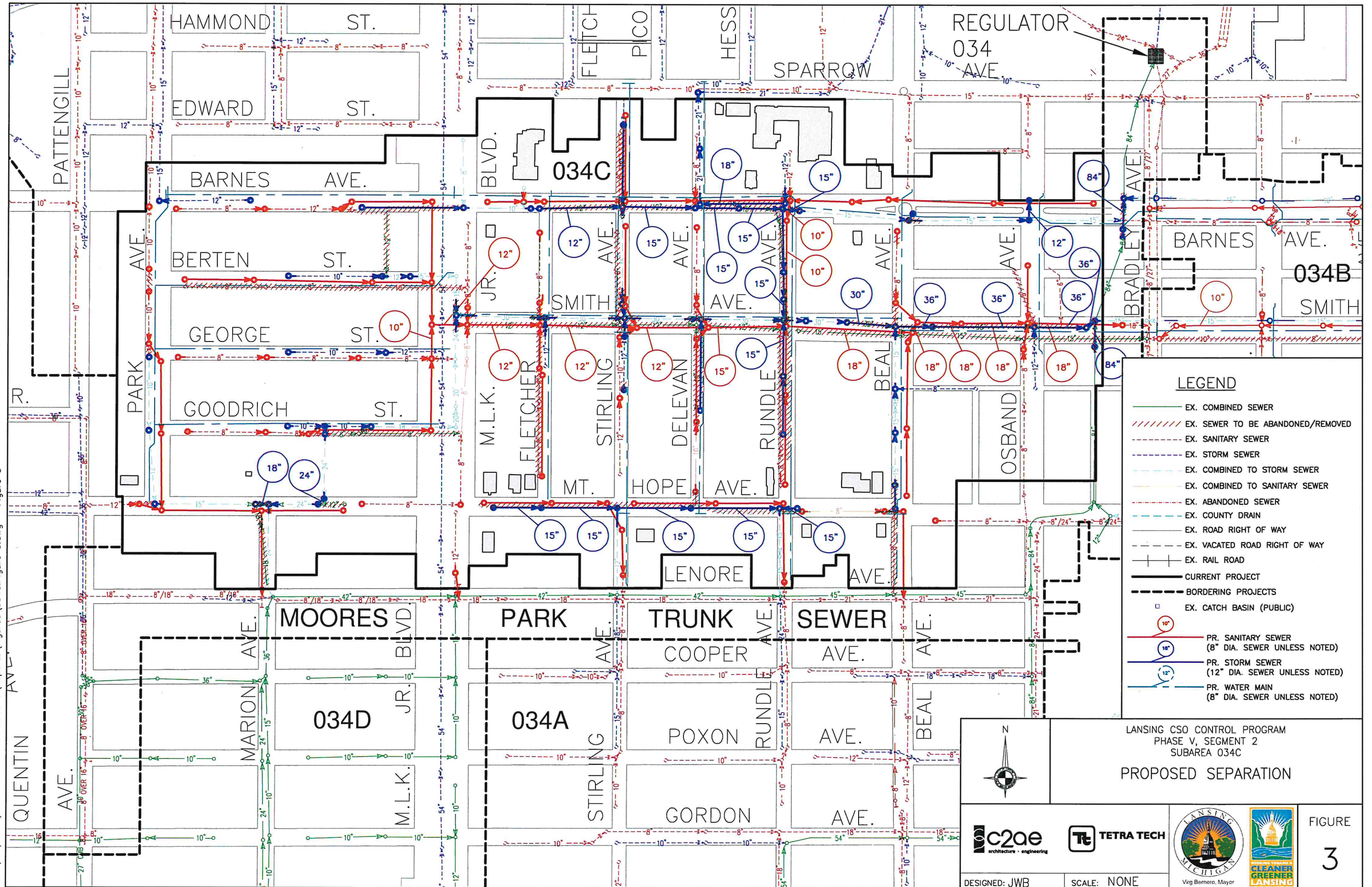
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LPD is spending approximately 2 hours on every Heroin Overdose and utilizing at least 2 police officers and a Detective to investigate these overdose incidents.

A faint, large watermark of the Lansing Police Department badge is visible in the background. The badge is circular with a central shield containing a sunburst and a building. The words "LANSING POLICE" are written around the perimeter of the badge.



Oct/13/2017 - 11:25am, robert.mcgowan
R:\LA\2008\LA.08265.CSO\Subarea034C\Figures\034C.Figure 3.dwg - Figure 3



Submitted @ city